

HUME CITY COUNCIL GENERAL NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH V.P.A. AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
2. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A 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 ON-SITE 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 TESTS RESULTS FOR THE F.C.R. THAT IS TO BE USED.
  - c. IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
4. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND O.H.S. REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH.
5. ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL". APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
6. THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
7. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
8. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
9. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.).
10. ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (M.G.A.).
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 V.P.A. MANUAL AND HUME CITY COUNCIL SPECIFICATIONS.
12. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.11-2003.
13. FILLING TO COMPLY WITH A.S.3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.
14. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
15. WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
16. NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCILS SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNED ON SITE.
17. BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
18. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.
19. ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
20. PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 1:5 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100MM LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SOOTS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED.
- HYDROMULCH AND SEED MIX TO BE:
- 40KG/HA KIKUYU
  - 200KG/HA TURF TYPE PERENNIAL RYE
  - 100KG/HA CREEPING RED FESCUE
  - 1500KG/HA OF CELLULOSE FIBRE
  - SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES. (E.G. ORGANIC GAUR TACKIFIERS @ 20 - 30 KG/HA, BASED ON, SITE CONDITIONS).
- NOTE: BITUMEN BINDERS ARE NOT ACCEPTED BY COUNCIL. GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.
21. FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
22. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
23. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
24. ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750mm OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
25. ALL STORMWATER DRAINS ARE TO BE CLASS 3 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIAMETER ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIAMETER.
26. WHERE NEW ASPHALT, CONCRETE KERB & CHANNEL, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
27. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
28. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
29. AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
30. ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289.5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 FCR COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003.
31. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.11-2003.
32. ALL EXISTING ASSETS AFFECTED BY THE WORKS, E.G. 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.
- PRIOR TO THE COMPLETION OF THE WORKS ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A, M.F.E.S.B & N.R.E). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.
33. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING 202.
34. ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
35. ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD408.
36. ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
38. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743 - 2001.

2	AS CONSTRUCTED		R.W.	05-08-21
1	DRAINAGE ALIGNMENT & RETAINING WALL DETAILS AMENDED		M.T.S.	20-01-21
0	ISSUED FOR CONSTRUCTION		M.T.S.	08-12-20
D	AMENDED NOTES, SHEETS 2, 4-5 & 20		M.T.S	29-10-20
C	AMENDED SHEETS 2-11, 13, 16-17 & 19-30		M.T.S	24-09-20
B	ISSUED TO COUNCIL		M.T.S	17-08-20
A	ISSUED FOR TENDER		M.T.S	14-08-20
Rev	Amendments	Approved	Date	

39. USE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
40. 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.5m 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 CONTRACTOR AND CONSULTANT CONTACT NAMES AND PHONE NUMBERS.
- ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN A.S.2187.2-1993.
- ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM A.S. 2187.2-1993, 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.

SPIIRE GENERAL NOTES:

42. 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 AND ARE ACCURATE TO WITHIN ±0.05m.
43. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
44. WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
45. ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH A.S.3798-2007. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, A.S.3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
46. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
47. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
48. T.B.M.'S 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 T.B.M.'S THEREAFTER.
49. AT LEAST THREE (3) DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
50. WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DE-SLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELLED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
51. GAS AND WATER CONDUITS SIZES ARE AS FOLLOWS:
- Ø50mm CLASS 12 P.V.C. - SINGLE SERVICE
  - Ø100mm CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
- WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
- ROAD PAVEMENT - 0.80m
  - VERGE & FOOTPATHS - 0.45m
52. CENTRE LINES OF ALL EASEMENT DRAINS ARE OFFSET 10m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
53. WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
54. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT.
55. TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
56. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
57. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
58. 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.
59. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH A.S.1742-3.
60. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
61. CONTRACTOR TO ENSURE SEWER MANHOLES ARE WHOLLY LOCATED IN PROPOSED FOOTPATHS.
62. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH EDM 501 & 502
63. THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL RECOMMENDATIONS STATED IN THE SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.
64. WHERE EXISTING SURFACES DO NOT REQUIRE EXCAVATION, THE STABILITY OF THE SITE IS DEMONSTRATED AND NO INTERVENTION IS REQUIRED. THOSE EXISTING SURFACE AREAS MUST HAVE THEIR VEGETATION RETAINED AND SHOULD BE PROTECTED BY EXCLUSION FENCING AND SIGNAGE DURING CONSTRUCTION TO PREVENT ACCESS AND ACTIVITY BY VEHICULAR TRAFFIC AND PLANT EQUIPMENT.
65. WHERE EXCAVATION IS REQUIRED FOR SERVICES, FOOTINGS AND DRAINAGE, EXPOSED SOILS WILL REQUIRE TREATMENT WITH GYPSUM AS DETAILED IN THE SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.
67. ON BATTERS OR OTHER SLOPPING GROUND WHERE VEGETATION REINSTATEMENT IS INCORPORATED, IT WILL BE IMPORTANT TO LEAVE TREATED SUBSOIL IN SLIGHTLY ROUGH CONDITION (AVOID ROLLING OR COMPACTION) TO ASSIST WITH KEYING IN OF TOPSOIL LAYERS. ON SLOPES GREATER (STEEPER) THAN 1 IN 6, FURTHER SURFACE STABILISATION BY THE USE OF COARSE WOODY MULCH IS RECOMMENDED UNTIL SUCH TIME AS VEGETATION ESTABLISHES AND PLANT ROOTS CAN COUNTER EROSION PRESSURE.
- THE FOLLOWING PRACTICES SHOULD BE ADOPTED FOR ALL DISPERSIVE SOILS ON-SITE:
- SOILS FROM DIFFERENT HORIZONS MUST BE STRIPPED AND STOCKPILED SEPARATELY IN VIEW OF THE VARIATION IN AMELIORATION REQUIREMENTS.
  - SOIL STOCKPILES MUST NOT EXCEED 2 METRES IN HEIGHT AND MUST NEVER BE TRAFFICKED.
  - STOCKPILED SOILS MUST HAVE GYPSUM APPLIED AS PER SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.
68. WHERE POTENTIALLY DISPERSIVE SOILS HAVE BEEN EXPOSED BUT NOT EXCAVATED (E.G. SOIL REMAINING POST-STRIPPING), GYPSUM SHOULD BE APPLIED AS PER SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893
69. IT MUST BE NOTED THAT WHILE GYPSUM APPLICATION WILL CHEMICALLY STABILISE THESE SOILS TO REDUCE THE RISKS OF DISPERSION, THE APPLICATION IS NOT A SUBSTITUTE FOR MECHANICAL EROSION CONTROL MEASURES. MECHANICAL EROSION CONTROL MEASURES AND STRUCTURES MUST REMAIN MAINTAINED UNTIL EARTHWORKS ON-SITE HAVE BEEN COMPLETED.

# TRIJENA STAGE 9 PGG (MICKLEHAM) PTY LTD



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DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - FACE SHEET	1	2
CR200	ROAD LAYOUT PLANS - DETAIL PLAN SHEET 1	2	2
CR201	ROAD LAYOUT PLANS - DETAIL PLAN SHEET 2	3	1
CR202	ROAD LAYOUT PLANS - SERVICES PLAN SHEET 1	4	2
CR203	ROAD LAYOUT PLANS - PAVEMENT PLAN SHEET 1	5	1
CR300	ROAD LONG SECTIONS - TANGALO & MAWSON STREET	6	1
CR301	ROAD LONG SECTIONS - POTTER CIRCUIT SHEET 1	7	1
CR302	ROAD LONG SECTIONS - POTTER CIRCUIT SHEET 2	8	1
CR400	ROAD CROSS SECTIONS - SHEET 1	9	1
CR401	ROAD CROSS SECTIONS - SHEET 2	10	1
CR402	ROAD CROSS SECTIONS - SHEET 3	11	1
CR403	ROAD CROSS SECTIONS - SHEET 4	12	1
CR404	ROAD CROSS SECTIONS - SHEET 5	13	1
CR500	INTERSECTION DETAILS - SHEET 1	14	1
CR501	INTERSECTION DETAILS - SHEET 2	15	1
CR600	DRAINAGE LONG SECTIONS - SHEET 1	16	1
CR601	DRAINAGE LONG SECTIONS - SHEET 2	17	1
CR602	DRAINAGE LONG SECTIONS - SHEET 3	18	2
CR603	DRAINAGE LONG SECTIONS - DRAINAGE PIT SCHEDULE	19	2
CR700	STANDARD DETAILS	20	1
CR701	EXTENDED DRIVEWAY DETAILS	21	1
CR800	SIGNAGE AND LINEMARKING PLAN	22	1
CR900	OMR-OPEN DRAIN DETAILS - SHEET 1	23	1
CR901	OMR-OPEN DRAIN DETAILS - SHEET 2	24	1
CR902	OMR-OPEN DRAIN DETAILS - SHEET 3	25	1
CR903	OMR-OPEN DRAIN DETAILS - SHEET 4	26	1
CR904	OMR-OPEN DRAIN DETAILS - SHEET 5	27	1
CR905	OMR-OPEN DRAIN DETAILS - SHEET 6	28	1
CR906	RETAINING WALL DETAILS - SHEET 1	29	1
CR907	RETAINING WALL DETAILS - SHEET 2	30	1
ST01	STRUCTURAL DRAWINGS - GENERAL NOTES & DETAILS	31	A

LEGEND

DESCRIPTION

WATER MAIN  
WATER RECYCLED  
UNDERGROUND ELECTRICITY  
OPTIC FIBRE  
GAS MAIN  
SEWER & MANHOLE  
CENTRAL INVERT  
COUNCIL STORMWATER DRAIN & PIT  
STORMWATER DRAINAGE PROPERTY INLETS  
COUNCIL STORMWATER PITS  
HOUSE DRAIN

AG DRAIN AND FLUSHER

STORMWATER DRAINAGE PIT NUMBER

GAS & WATER CONDUITS

CONCRETE VEHICLE CROSSING

SURFACE CONTOUR MINOR

SURFACE CONTOUR MAJOR

SURFACE LEVEL

BATTER LEVEL (TOP / TOE)

EARTHWORKS GRADE

SIGN AND POST

STREET SIGN

PERMANENT SURVEY MARK

TEMPORARY BENCH MARK

ROAD CHAINAGES

LOT CHAINAGE

SETOUT POINT

LIMIT OF WORKS

BATTER

FILLING GREATER THAN 0.20m

CUT GREATER THAN 0.20m

FALL OF LOT

TREE TO BE REMOVED

FENCE

BOUNDARY BATTER SLOPE

RETAINING WALL TYPE A

RETAINING WALL TYPE B

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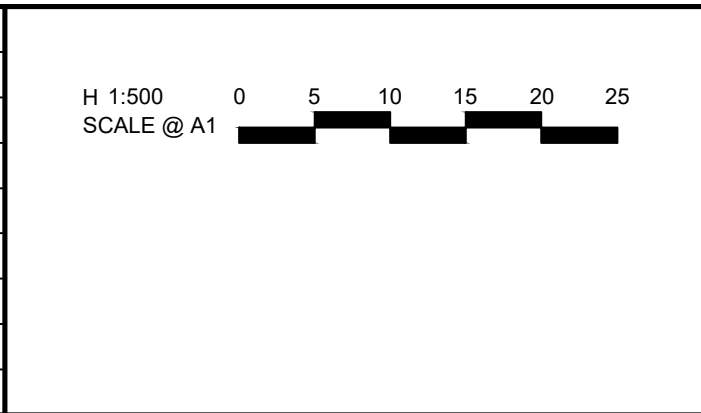
FOR CONTINUATION REFER 304012CR201 RIGHT VIEWPORT

NOTE:  
EARTHWORKS TO COMPLY WITH ALL RECOMMENDATIONS  
STATED IN THE SODIC SOIL ASSESSMENT REPORT  
PREPARED BY S.E.S.I. REPORT REFERENCE J002893.

FOR CONTINUATION REFER 304012CR201 LEFT VIEWPORT



2	AS CONSTRUCTED	R.W.	05-08-21
1	DRAINAGE ALIGNMENT & RETAINING WALL DETAILS AMENDED	M.T.S.	20-01-21
0	ISSUED FOR CONSTRUCTION	M.T.S.	08-12-20
D	AMENDED HOUSE DRAIN LOCATIONS	M.T.S.	29-10-20
C	ADDED NOTES, DETAILS, EASEMENTS, FENCES. AMENDED LOT 913 & 914, T.T.A.A., R.W. M.T.S.	M.T.S.	24-09-20
B	ISSUED TO COUNCIL	M.T.S.	17-08-20
A	ISSUED FOR TENDER	M.T.S.	14-08-20
Rev	Amendments	Approved	Date



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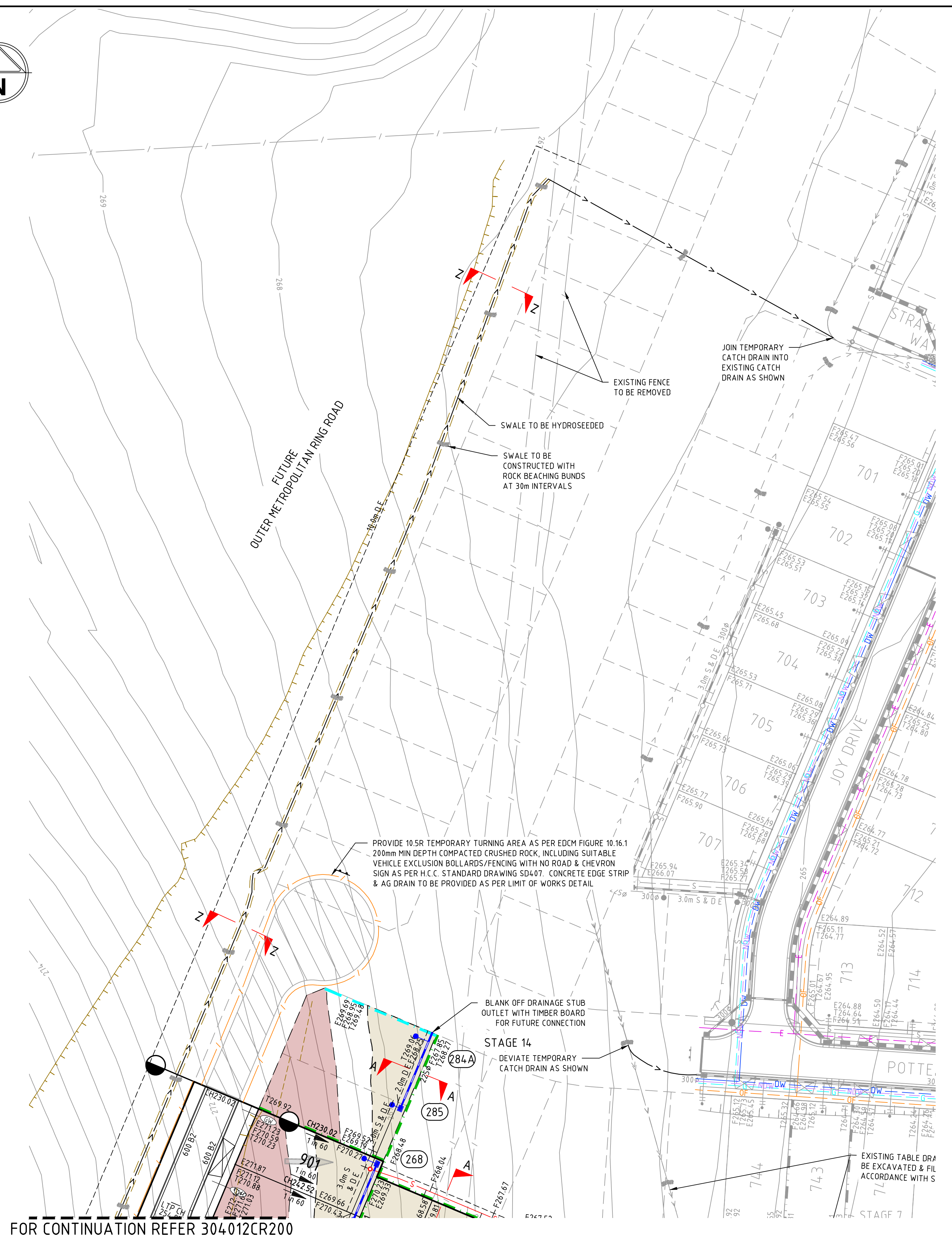
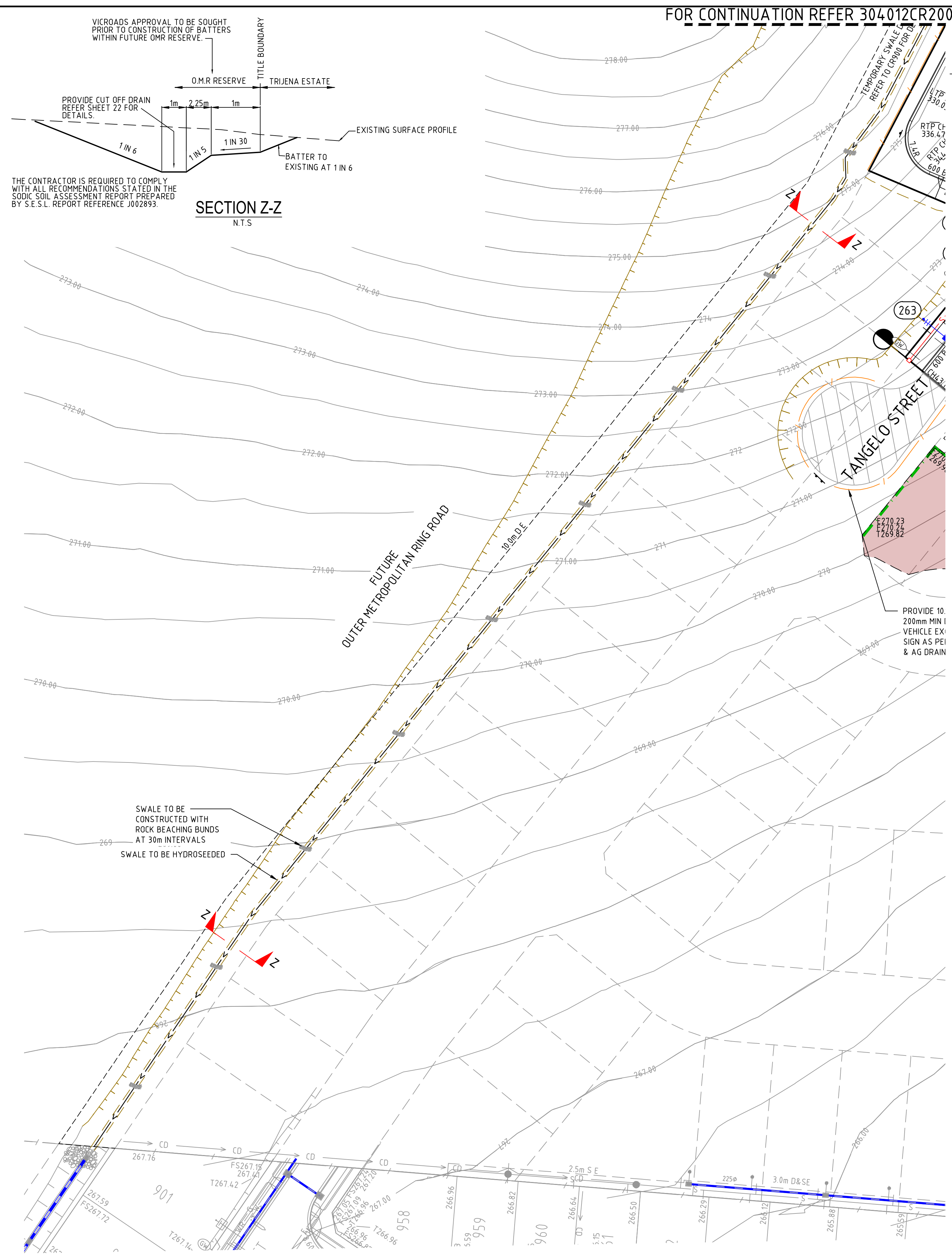
**spiire**  
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spiire.com.au ABN 55 050 029 635

**POTTER GEORGE**  
Designed  
W.MAY  
Authorised  
M.TOOMER-SMITH

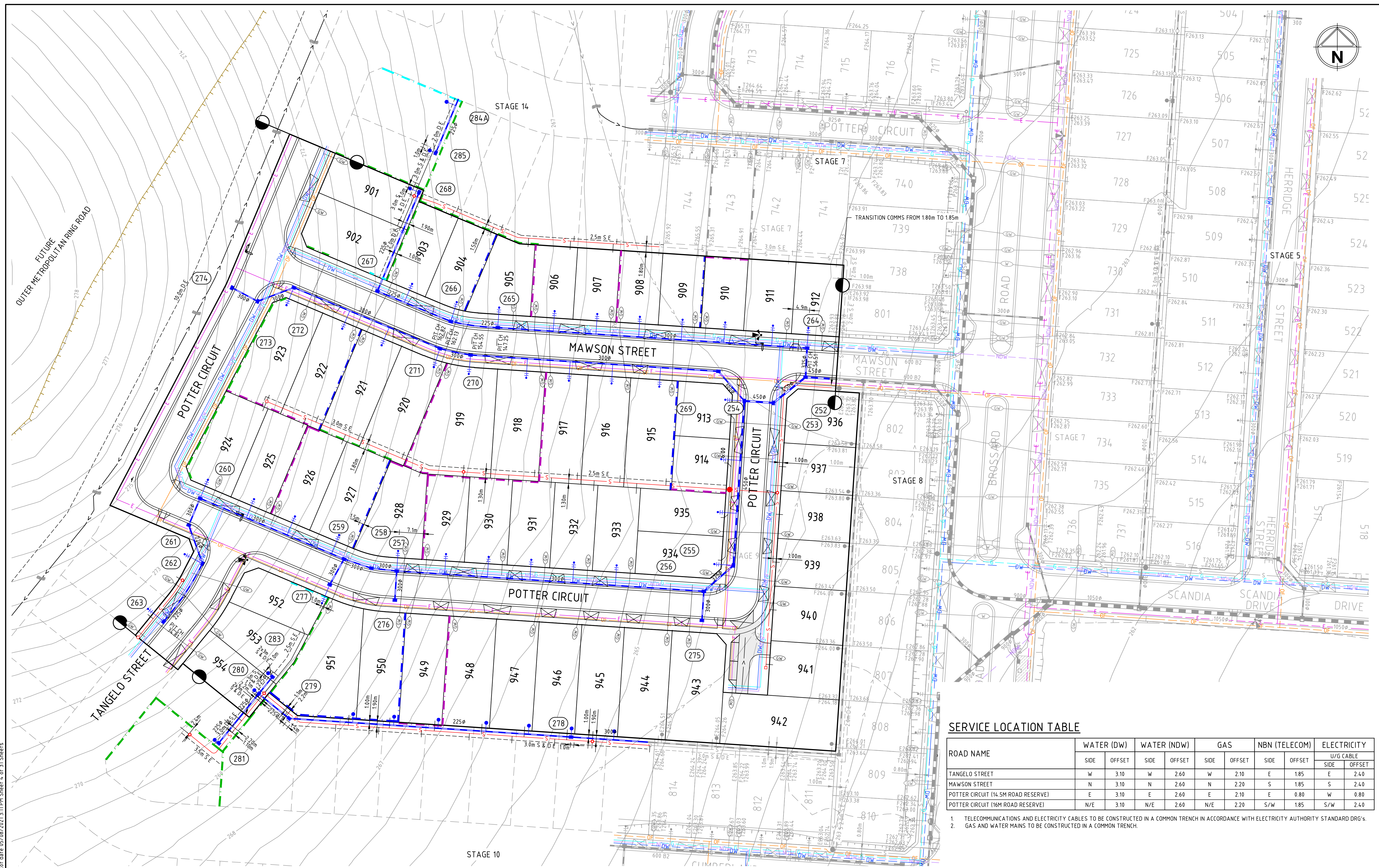
**TRIJENA**  
Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
STAGE 9  
ROAD LAYOUT PLANS  
DETAIL PLAN (SHEET 1)  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD  
**AS CONSTRUCTED**  
Drg No  
304012CR200  
Rev  
2






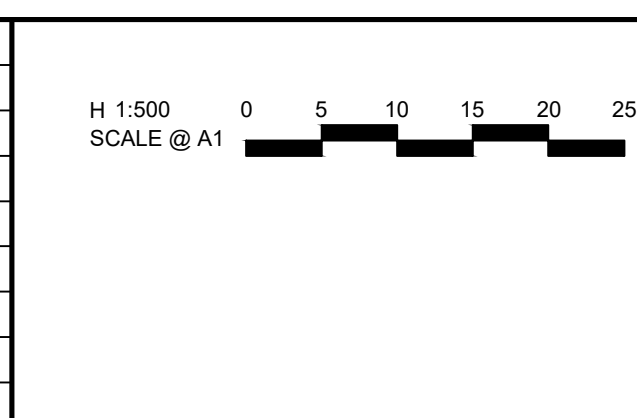




### SERVICE LOCATION TABLE



1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.

2	AS CONSTRUCTED	R.W.	05-08-21
1	DRAINAGE ALIGNMENT UPDATED	M.T.S.	20-01-21
0	ISSUED FOR CONSTRUCTION	M.T.S.	08-12-20
D	AMENDED HOUSE DRAIN LOCATIONS & AFFECTED GW CONDUITS	M.T.S.	29-10-20
C	ADDED NOTE. AMENDED R.W, EASEMENTS, DRAINAGE, SEWER OFFSET, CROSSOVER	M.T.S.	24-09-20
B	ISSUED TO COUNCIL	M.T.S.	17-08-20
A	ISSUED FOR TENDER	M.T.S.	14-08-20
Rev	Amendments	Approved	Date



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 <p>POTTER GEORGE</p>	 <p>TRIJENA</p> <p>NICKLEMAN</p>
<p>Designed W.MAY</p> <p>Authorised M.TOOMER-SMITH</p>	<p>Checked J.KOEHLER</p> <p>Date 14-08-20</p>



file name: 304012CR203.dwg, layout name: CR203, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 3:11 PM, Sheet 5 of 31 Sheets

LEGEND

- PAVEMENT TYPE C
- PAVEMENT TYPE D
- PAVEMENT TYPE F - PARKING BAY (EXPOSED AGGREGATE)  
-EXTENDED DRIVEWAY (ENDEAVOUR COLOUR HANSON)
- TEMPORARY TURN AROUND AREA

NOTE: REFER TO STANDARD DETAIL DRAWINGS FOR PAVEMENT DETAIL



1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S	08-12-20
D	AMENDED PAVEMENT E TO PAVEMENT D	M.T-S	29-10-20
C	AMENDED TEMPORARY TURN AROUND AREA, CROSS OVER, TABLE	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date

H 1:500  
SCALE @ A1



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Designed  
W.MAY  
Authorised  
M.TOOMER-SMITH



Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
**STAGE 9**  
**ROAD LAYOUT PLANS**  
**PAVEMENT PLAN**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

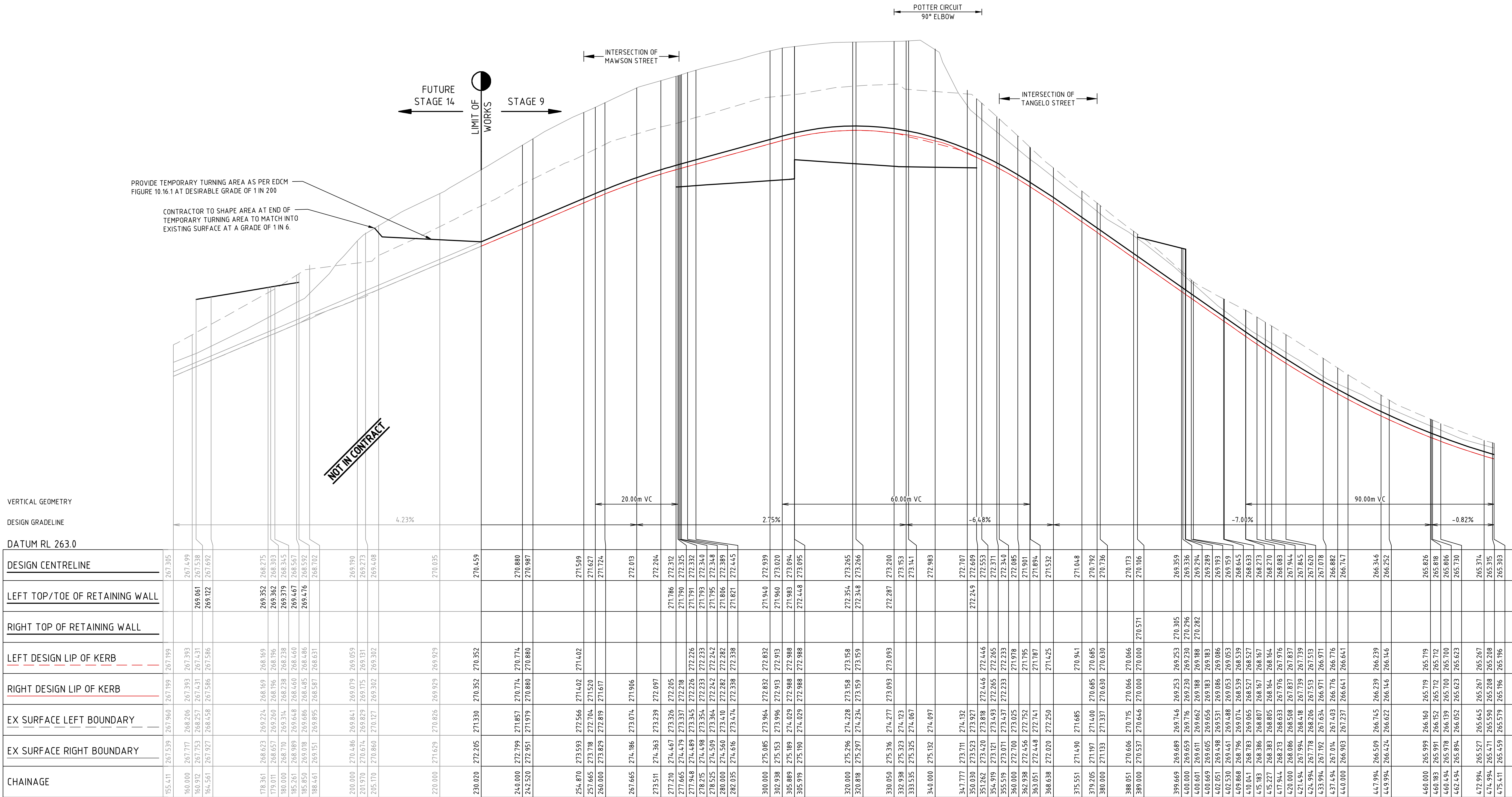
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1



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POTTER CIRCUIT

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED NOTE, REMOVED DESIGN LEVELS IN INTERSECTION	M.T-S.	24-09-20
B	ISSUED TO COUNCIL	M.T-S.	17-08-20
A	ISSUED FOR TENDER	M.T-S.	14-08-20

H 1:500  
SCALE @ A1  
V 1:50

0 5 10 15 20 25  
0 0.5 1.0 1.5 2.0 2.5



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Authorised  
**M.TOOMER-SMITH**



Checked  
**J.KOEHLER**  
Date  
**14-08-20**

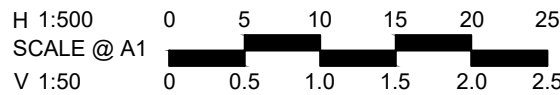
**TRIJENA  
STAGE 9  
ROAD LONGITUDINAL SECTIONS  
POTTER CIRCUIT SHEET 1  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD**

**AS CONSTRUCTED** Drg No **304012CR301** Rev **1**



file name: 304012CR302.dwg layout: crrc CD302 - 05/08/2021 3:11 PM Sheet 8 of 31 Sheets  
file location: G:\304012\304012.dwg plot date: 05/08/2021 3:11 PM

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED NOTE, REMOVED DESIGN LEVELS IN INTERSECTIONS	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date



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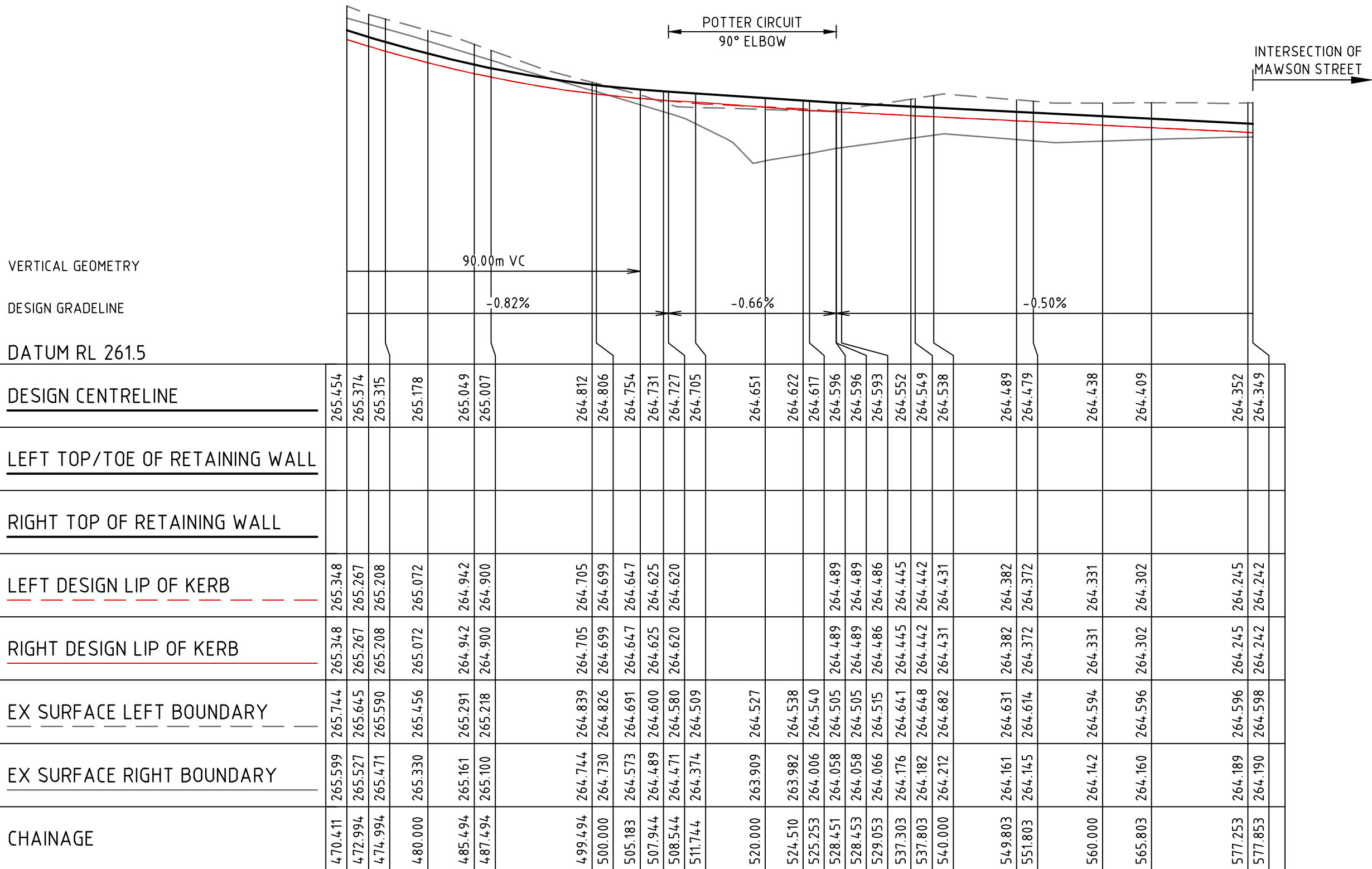
Designed  
W.MAY  
Authorised  
M.TOOMER-SMITH



Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
**STAGE 9**  
**ROAD LONGITUDINAL SECTIONS**  
**POTTER CIRCUIT SHEET 2**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

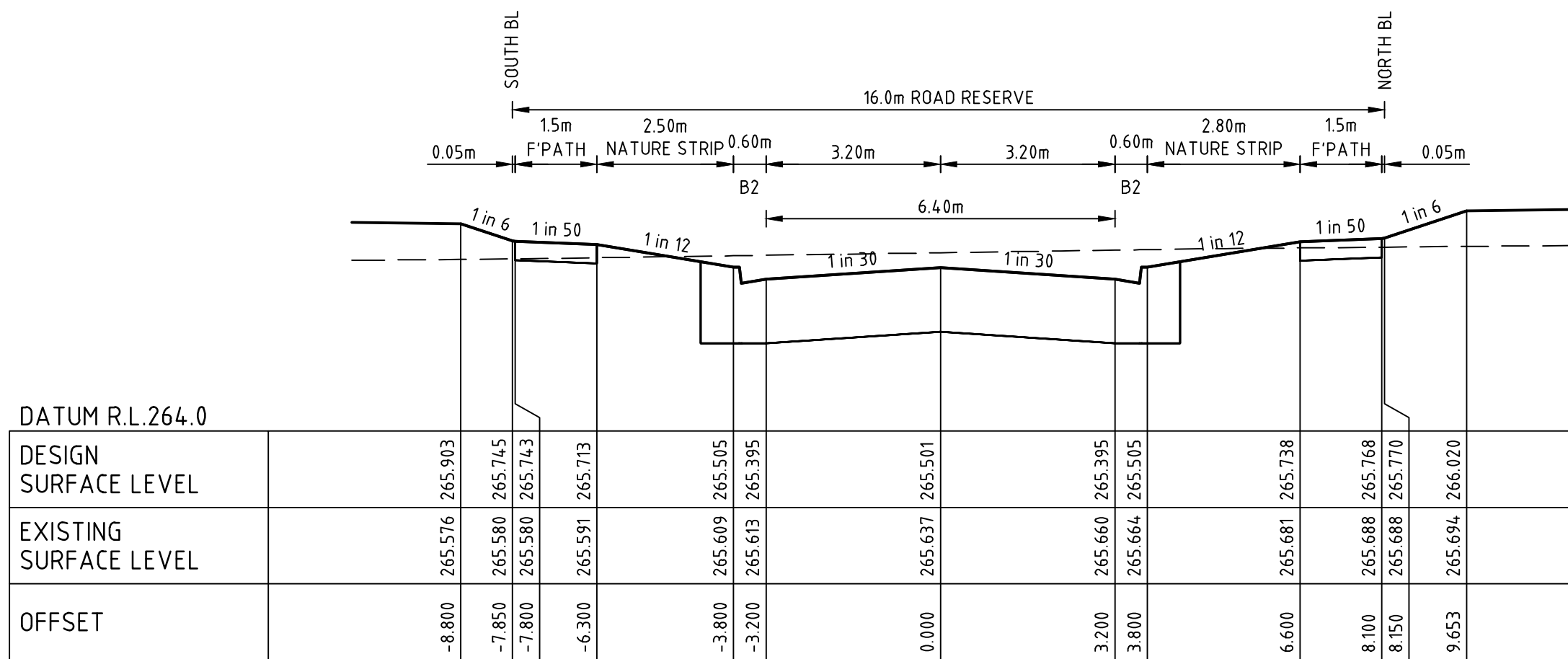
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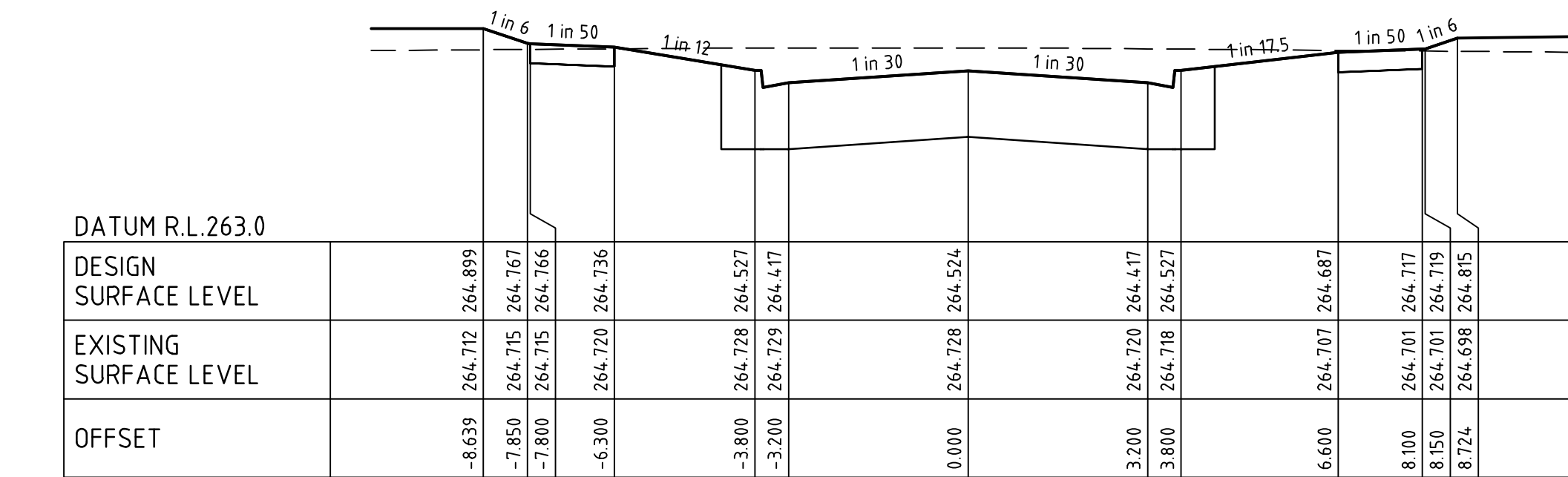
POTTER CIRCUIT



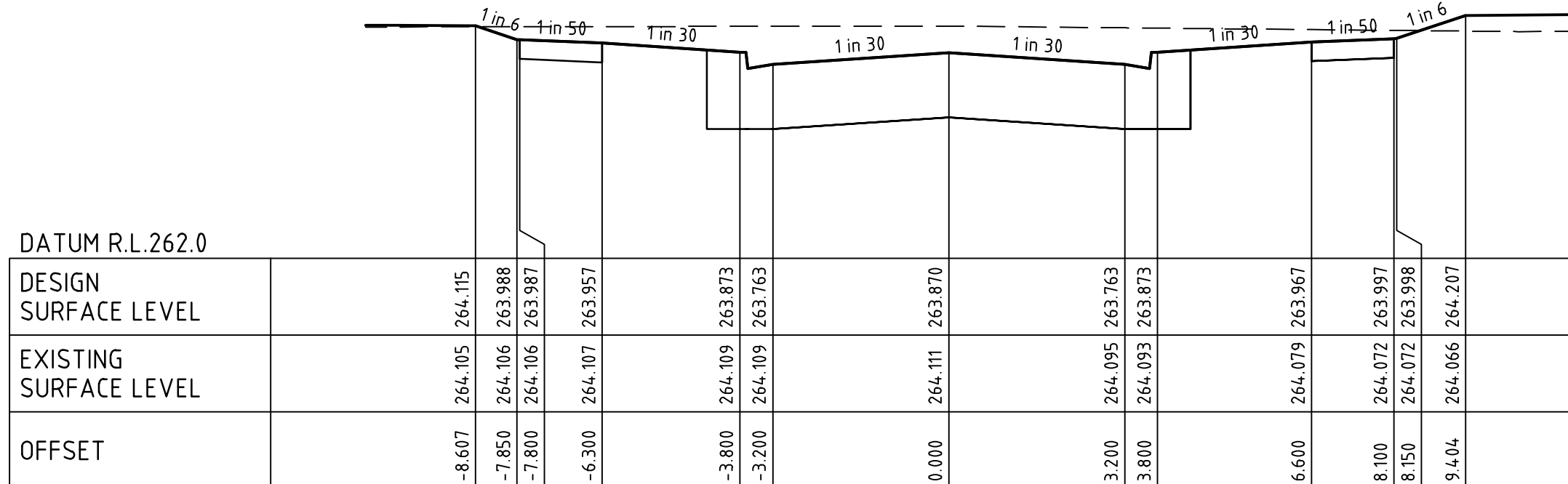
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.



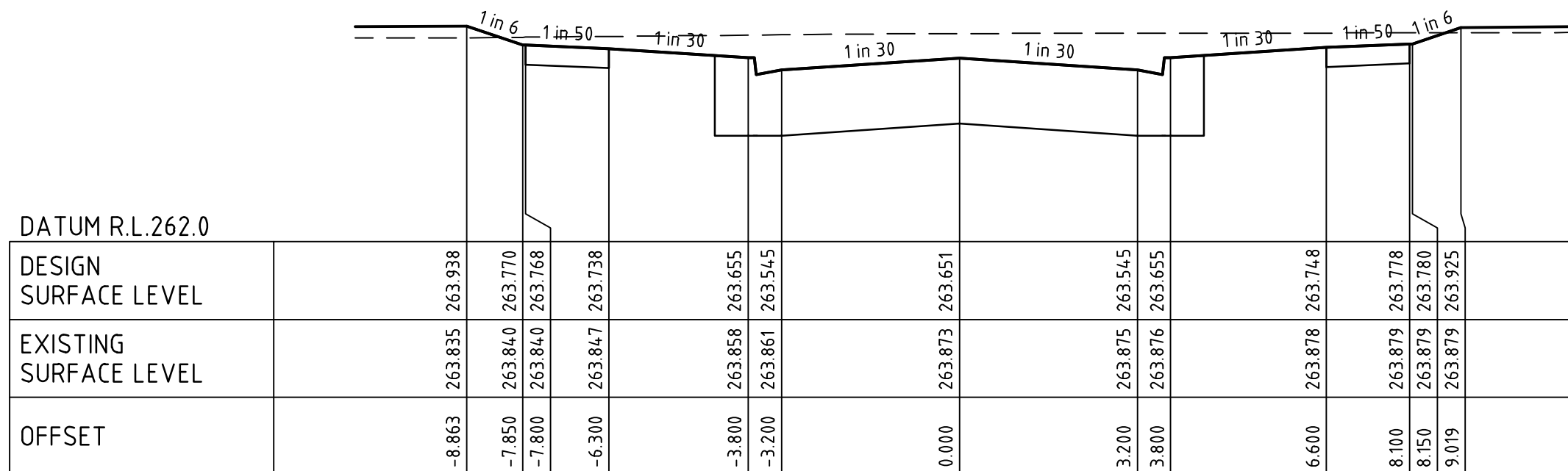
CH 107.50



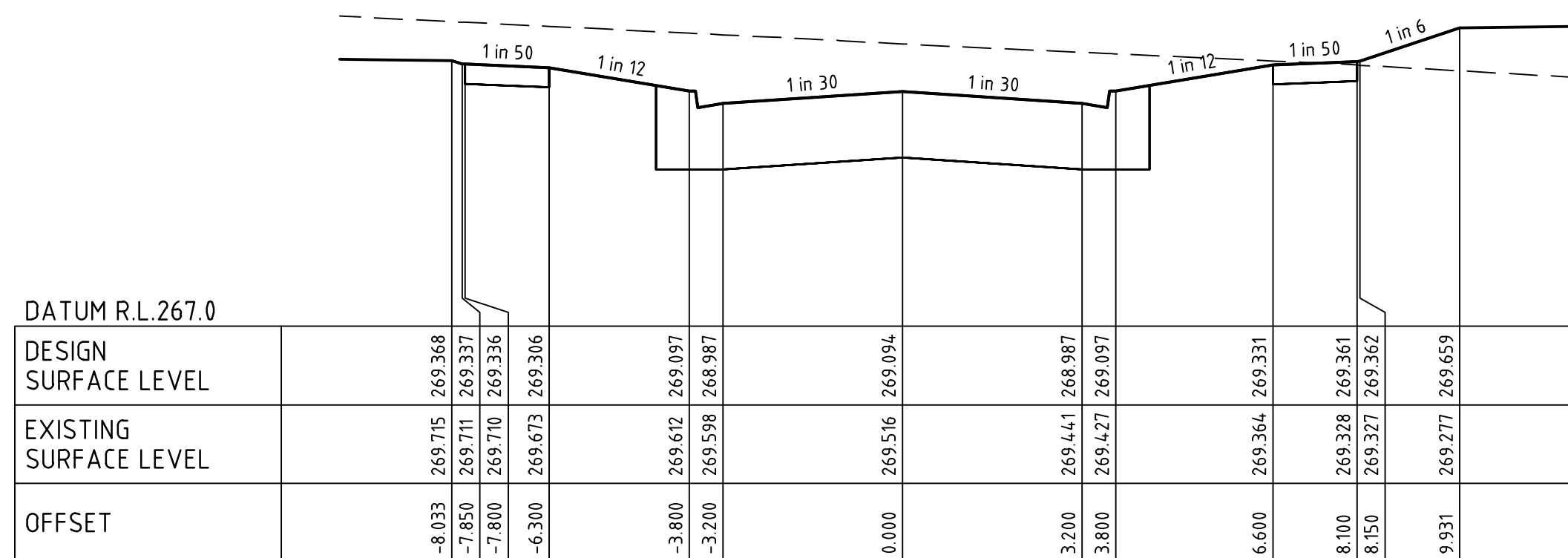
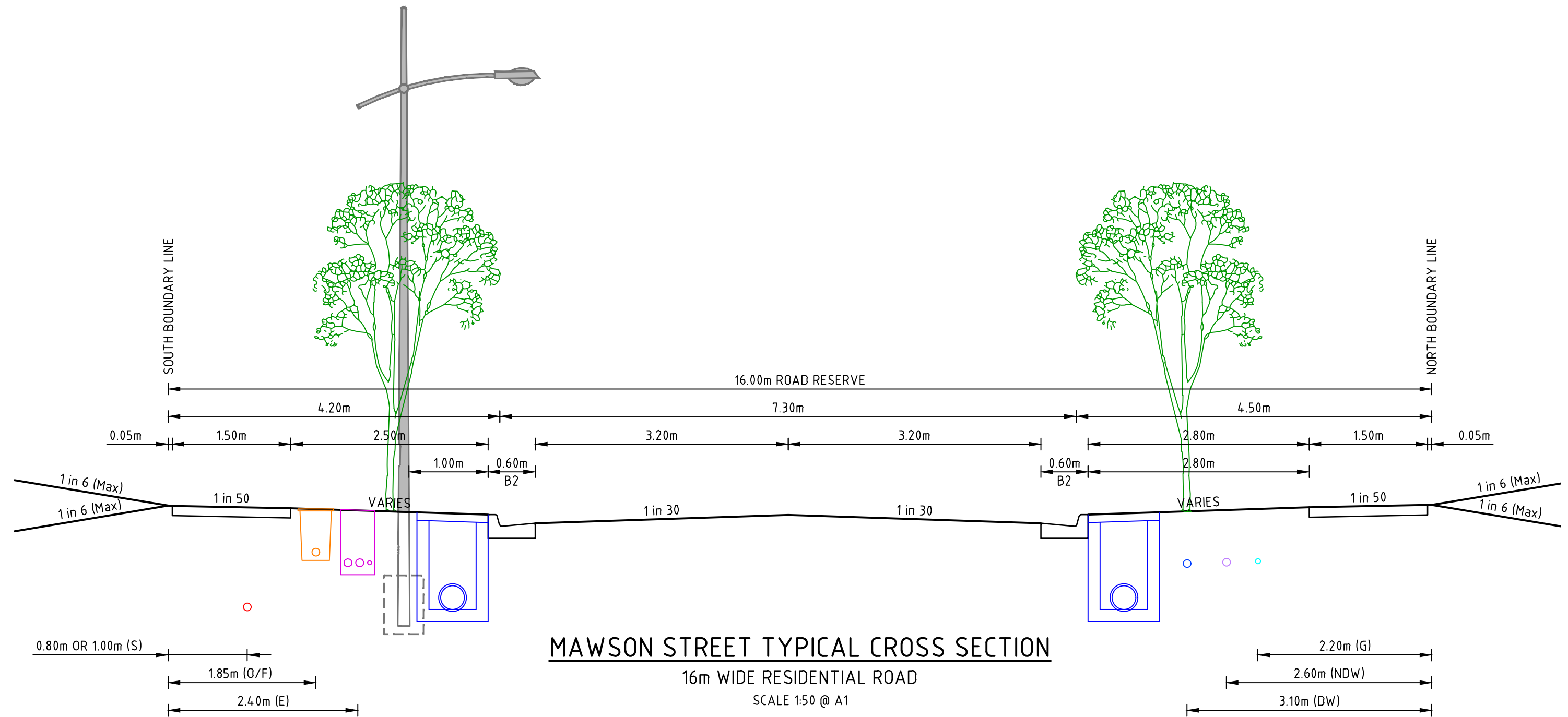
CH 81.45



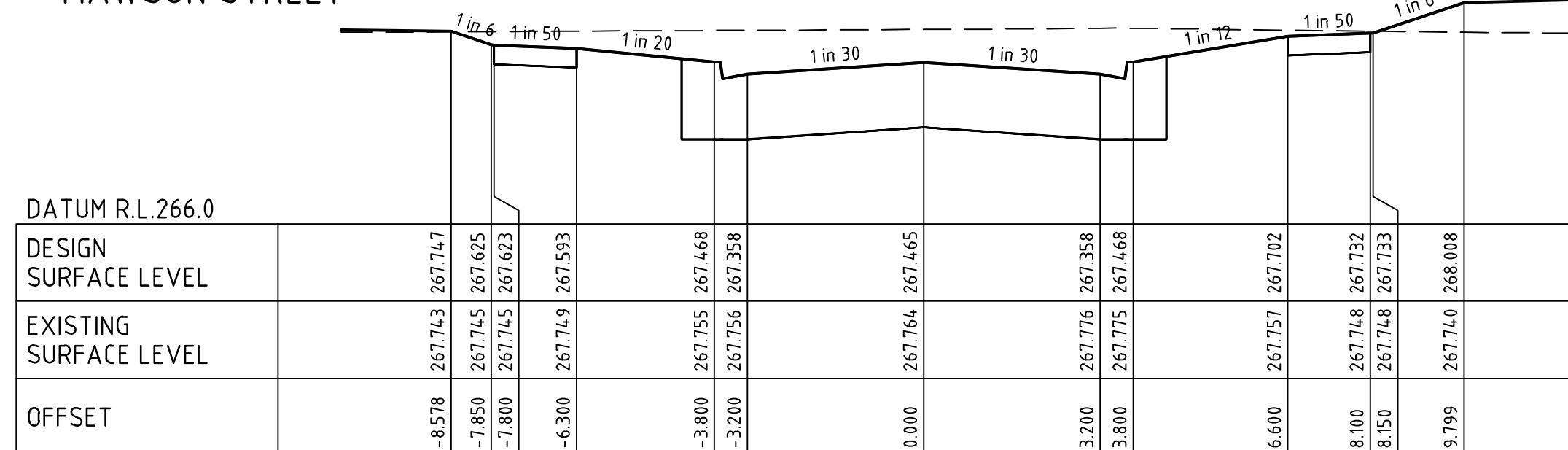
CH 57.85



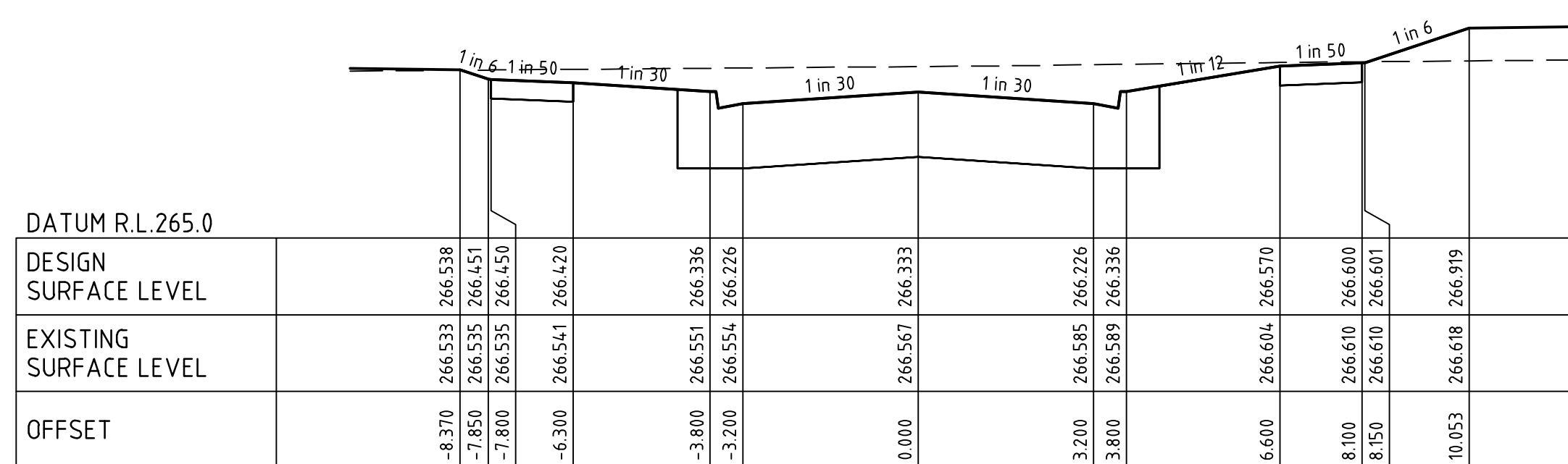
CH 47.50



CH 172.31

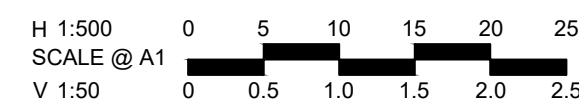


CH 146.50



CH 125.50

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED OFFSET POINT AND LEVELS TO CH81.45	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date



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Designed  
W.MAY

Authorised  
M.TOOMER-SMITH



Checked  
J.KOEHLER  
Date  
14-08-20

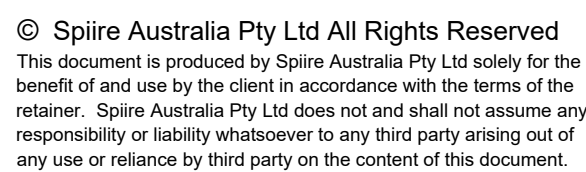
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**STAGE 9**  
**ROAD CROSS SECTIONS**  
**SHEET 1**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED**      Drg No **304012CR400**      Rev **1**





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SCALE @ A1  
V 1:50 0 0.5 1.0 1.5 2.0 2.5



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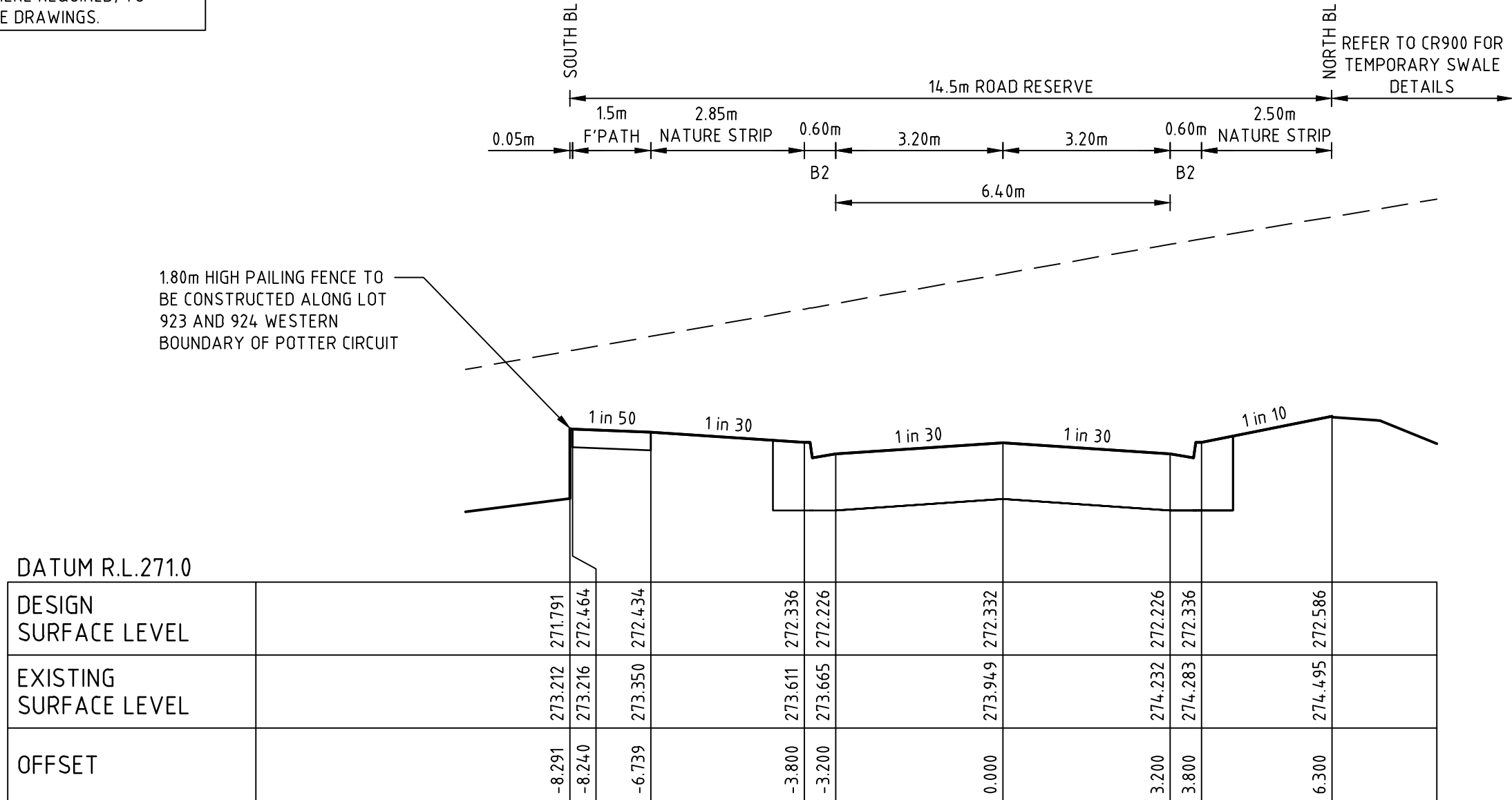
Checked  
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Date  
14-08-20

**AS CONSTRUCTED**      Drg No **304012CR401**

Drg No **304012CR401** Rev **1**

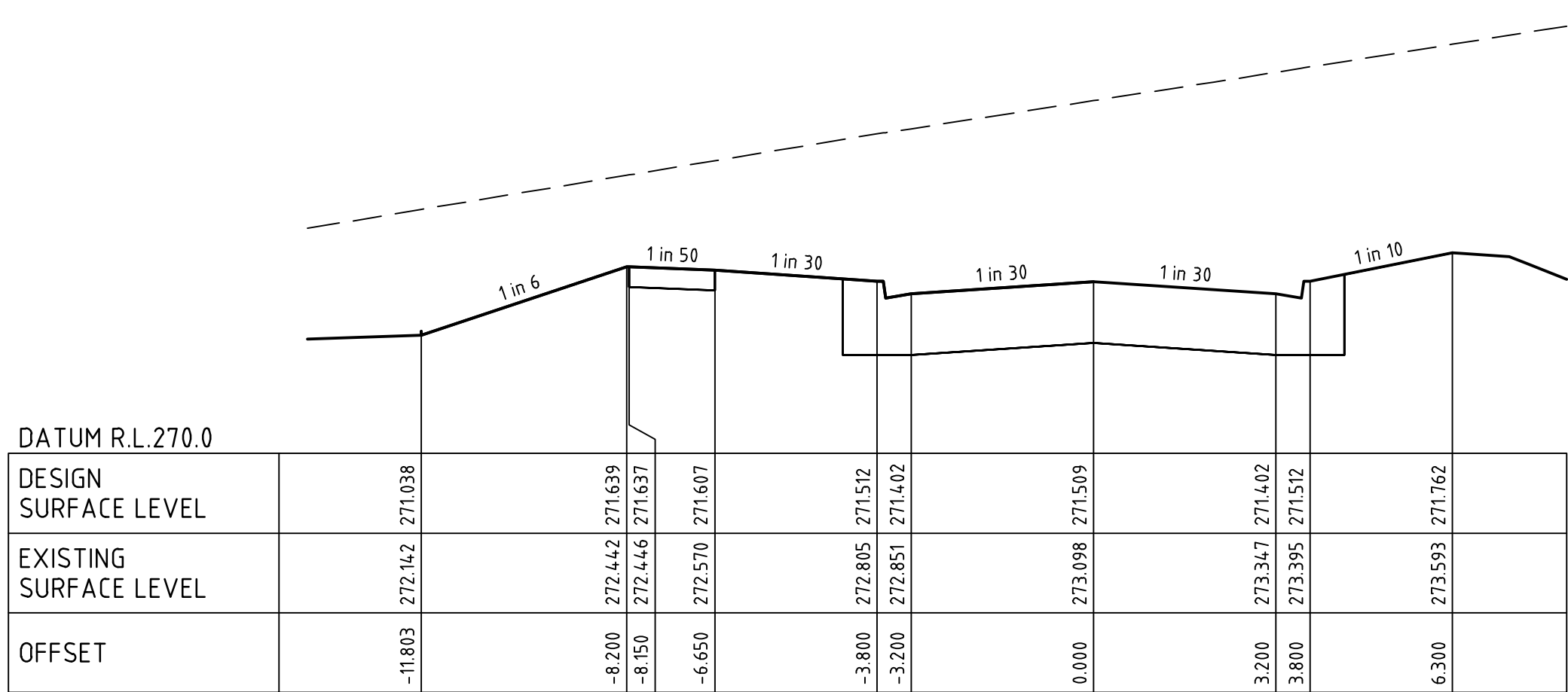


**FILLING NOTE**  
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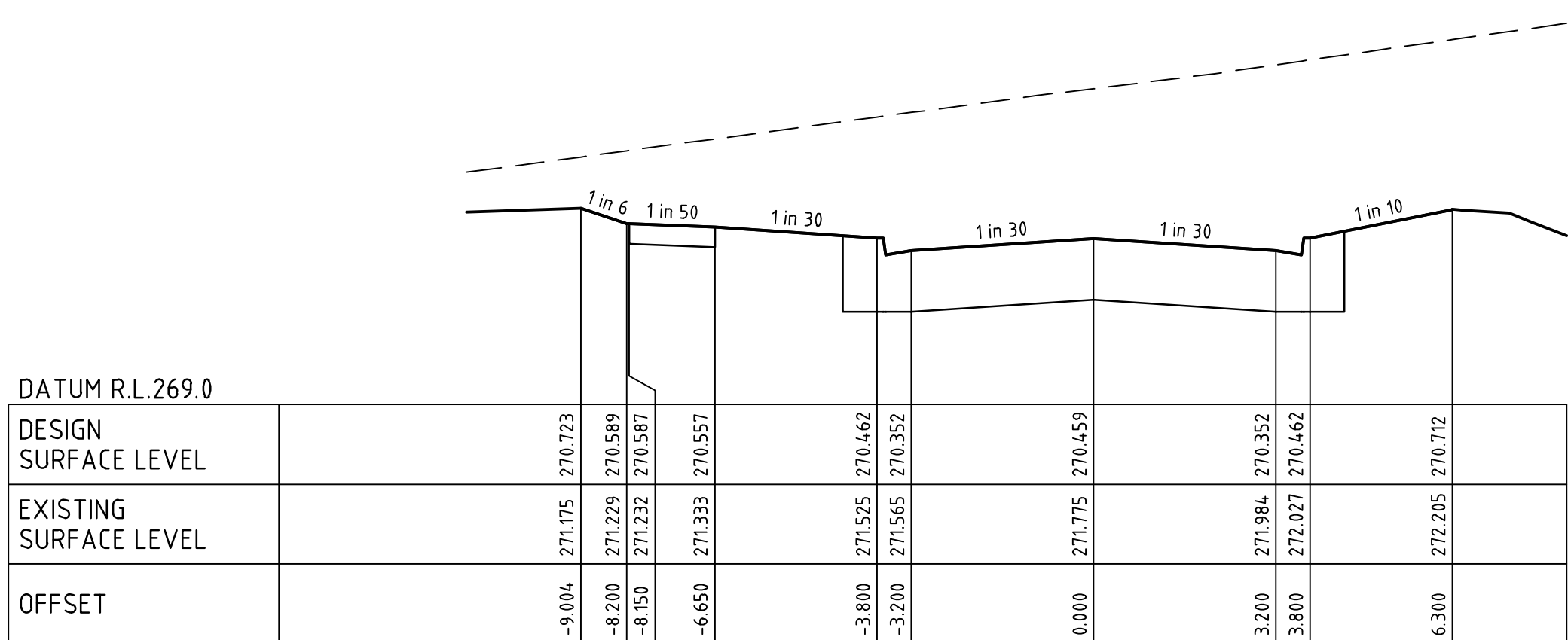
POTTER CIRCUIT

CH 277.95



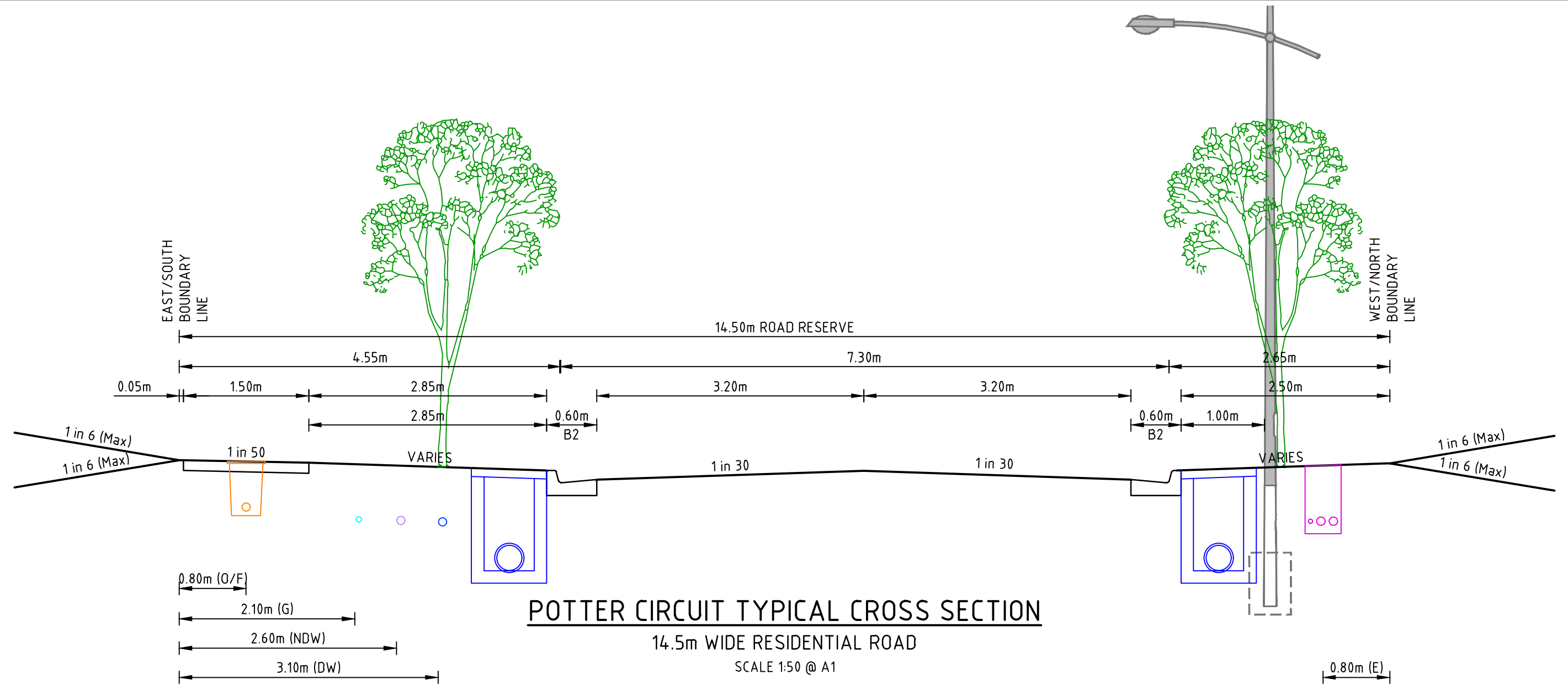
POTTER CIRCUIT

CH 254.87



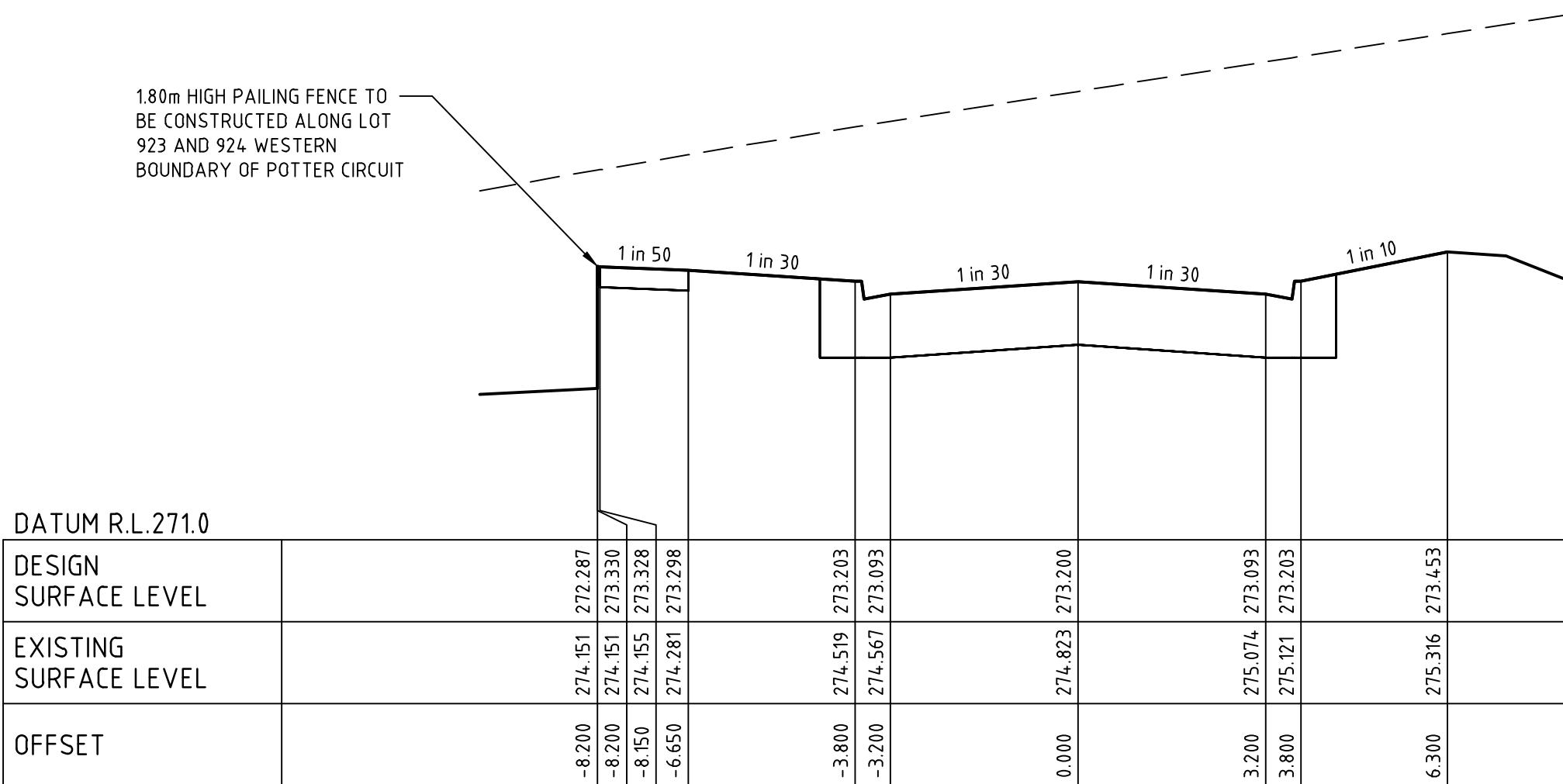
POTTER CIRCUIT

CH 230.02



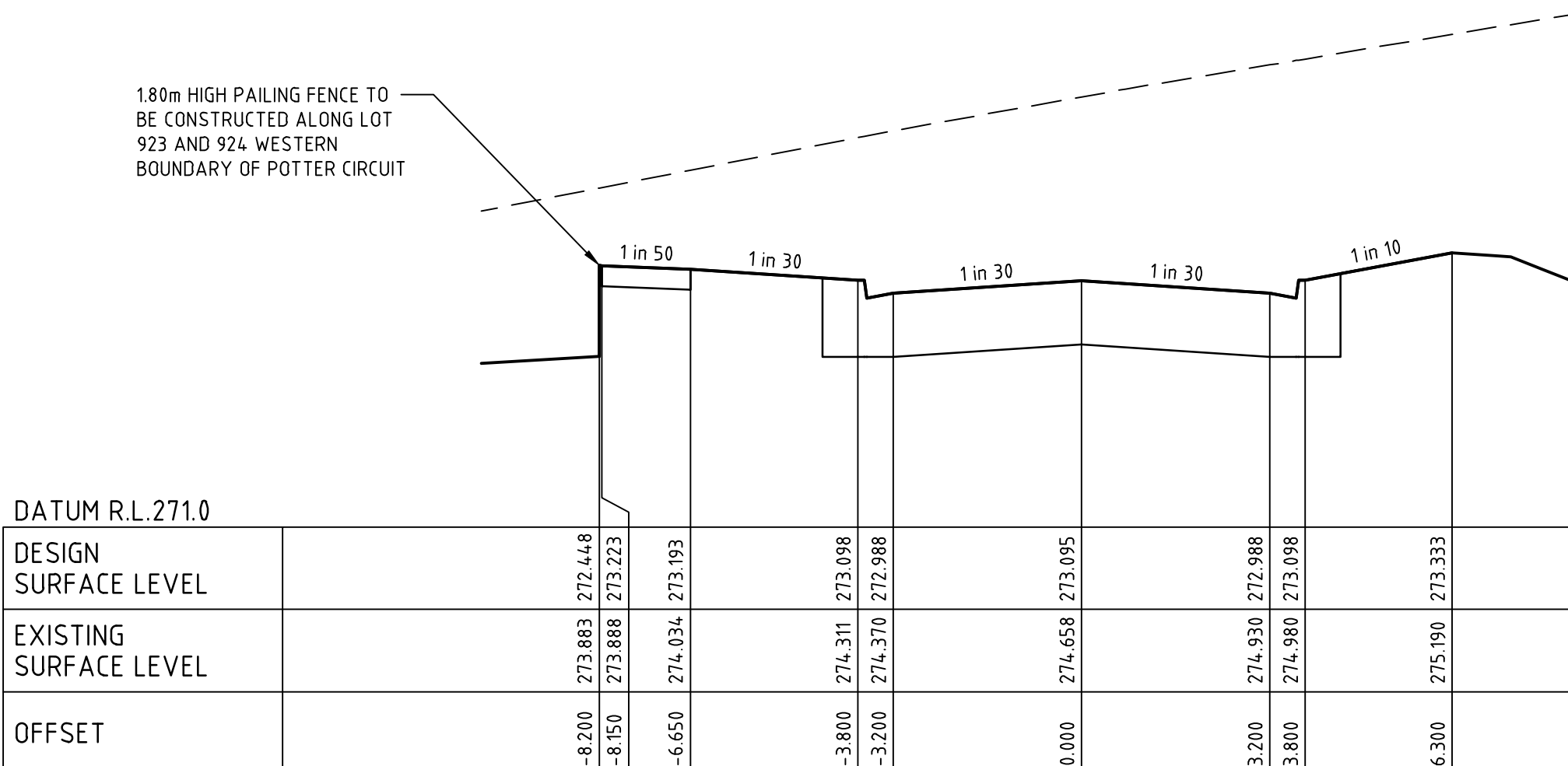
POTTER CIRCUIT

CH 305.92



POTTER CIRCUIT

CH 330.05



POTTER CIRCUIT

CH 305.92

file name: 304012CR402.dwg, layout name: CR402, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 3:11 PM, Sheet 11 of 31 Sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED NOTES & AMENDED CROSS SECTION DETAIL	M.T-S.	24-09-20
B	ISSUED TO COUNCIL	M.T-S.	17-08-20
A	ISSUED FOR TENDER	M.T-S.	14-08-20

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SCALE @ A1  
V 1:50



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Designed  
W.MAY  
Authorised  
M.TOOMER-SMITH



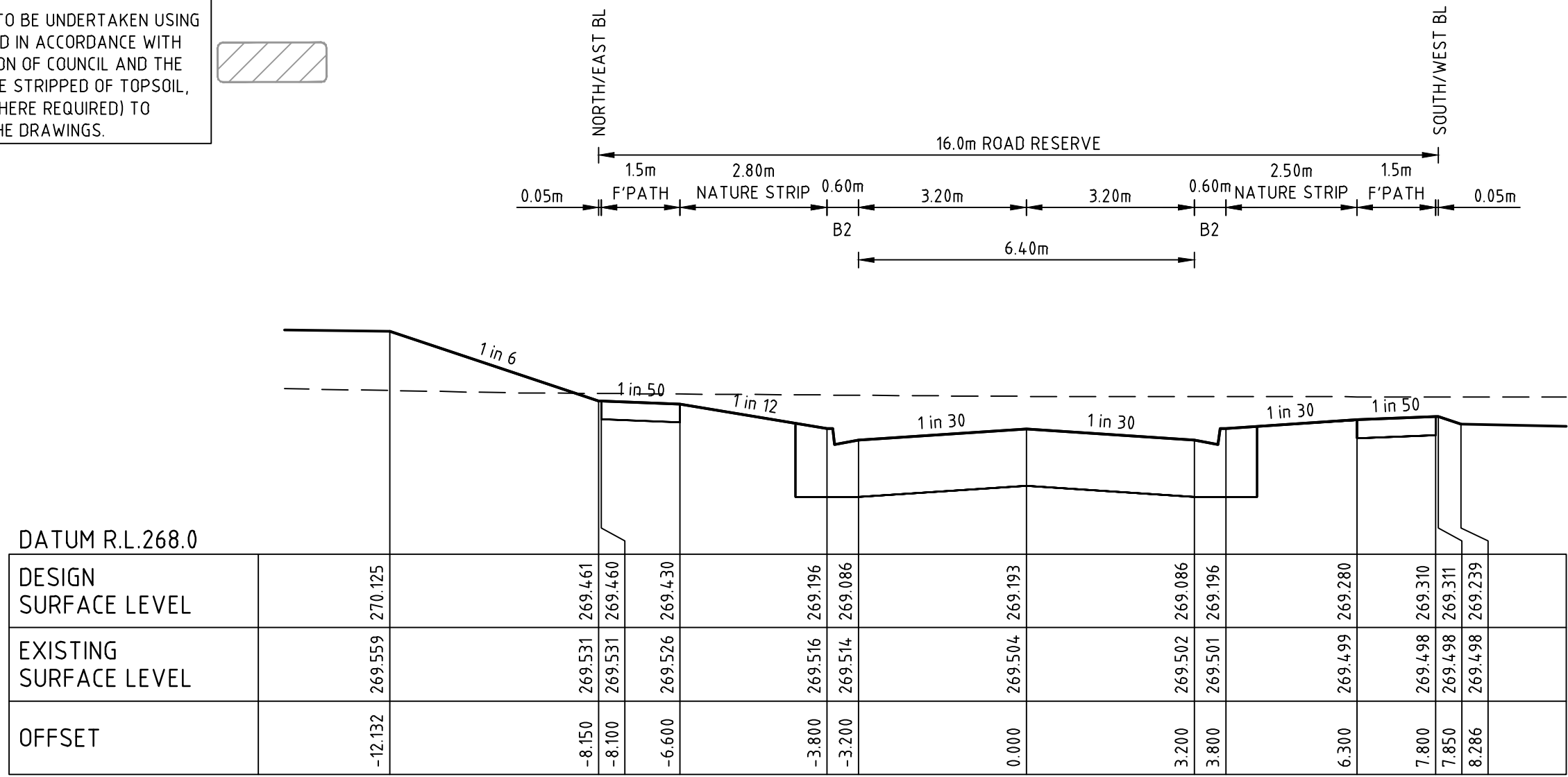
Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
**STAGE 9**  
**ROAD CROSS SECTIONS**  
**SHEET 3**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR402** Rev **1**

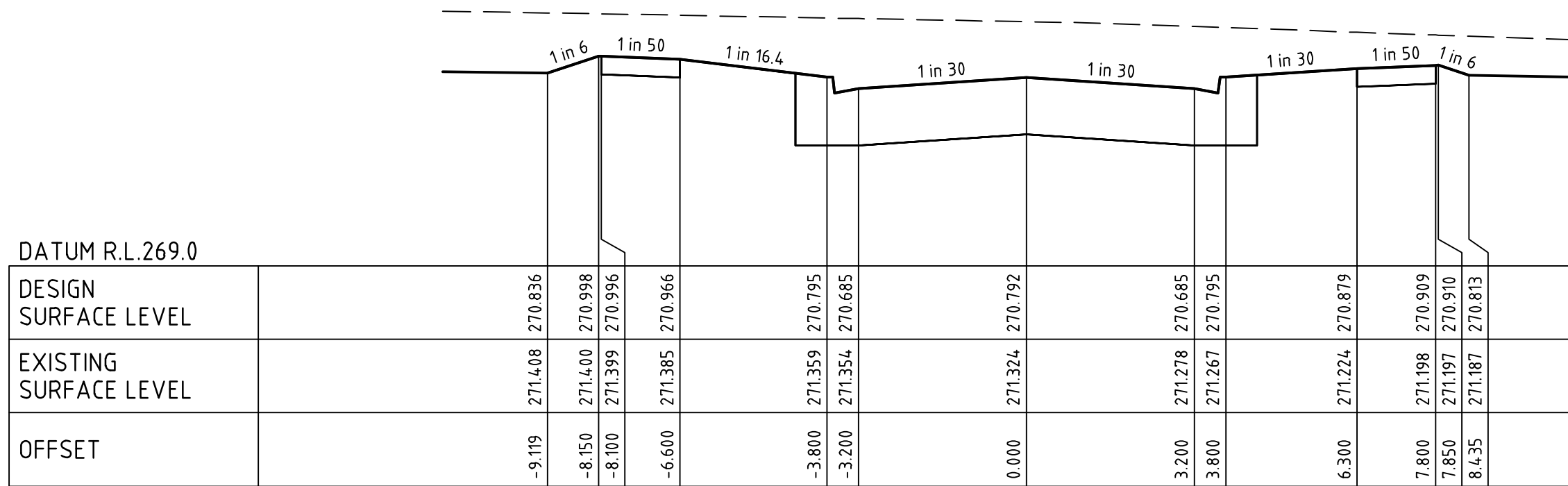


**FILLING NOTE**  
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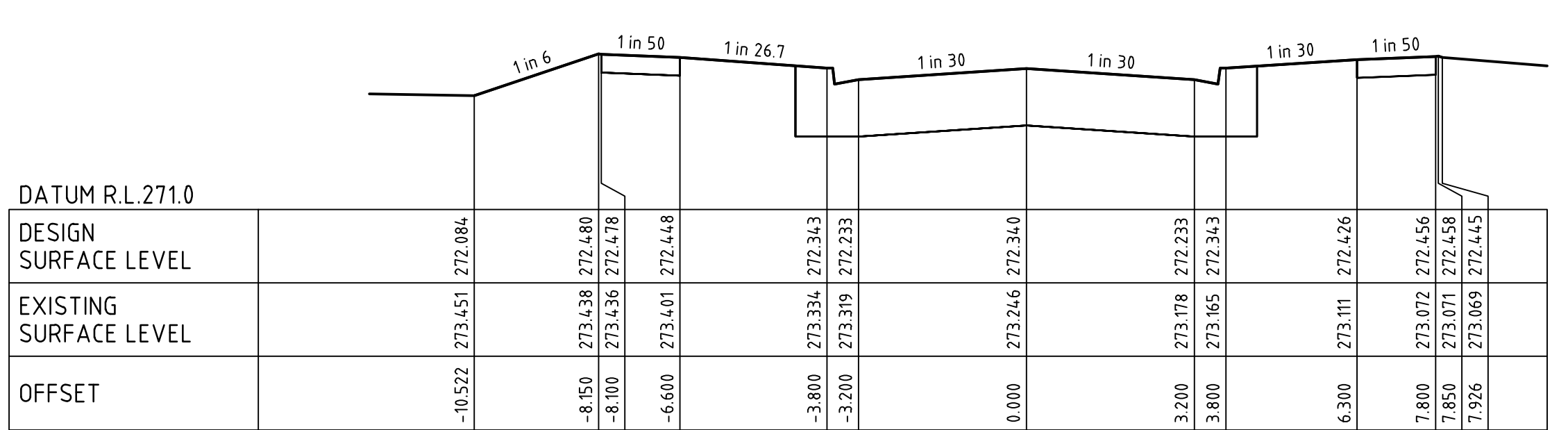
POTTER CIRCUIT

CH 402.05



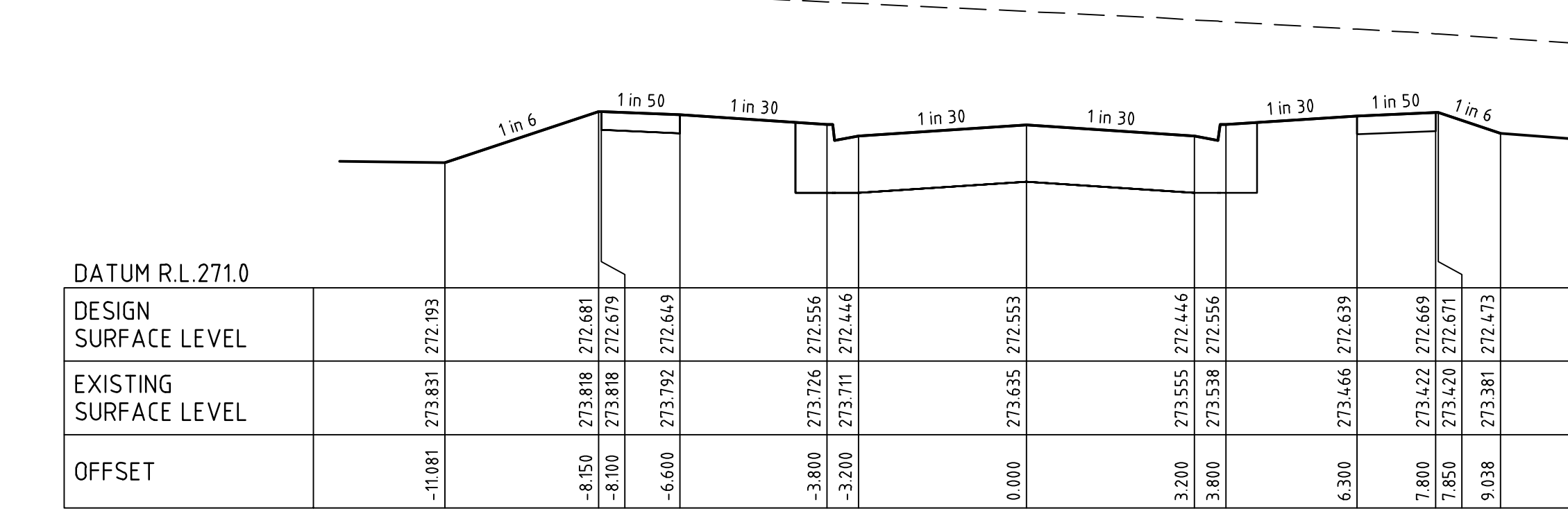
POTTER CIRCUIT

CH 379.20



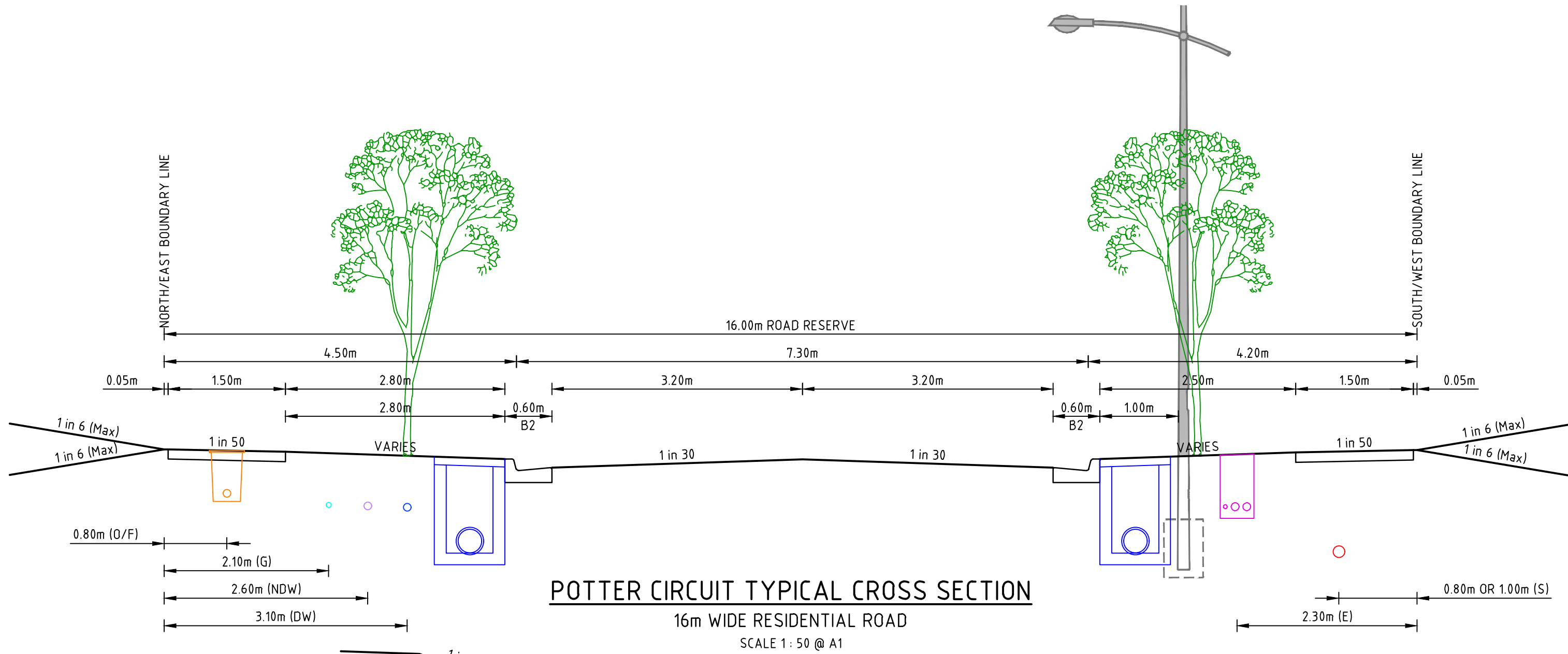
POTTER CIRCUIT

CH 355.52



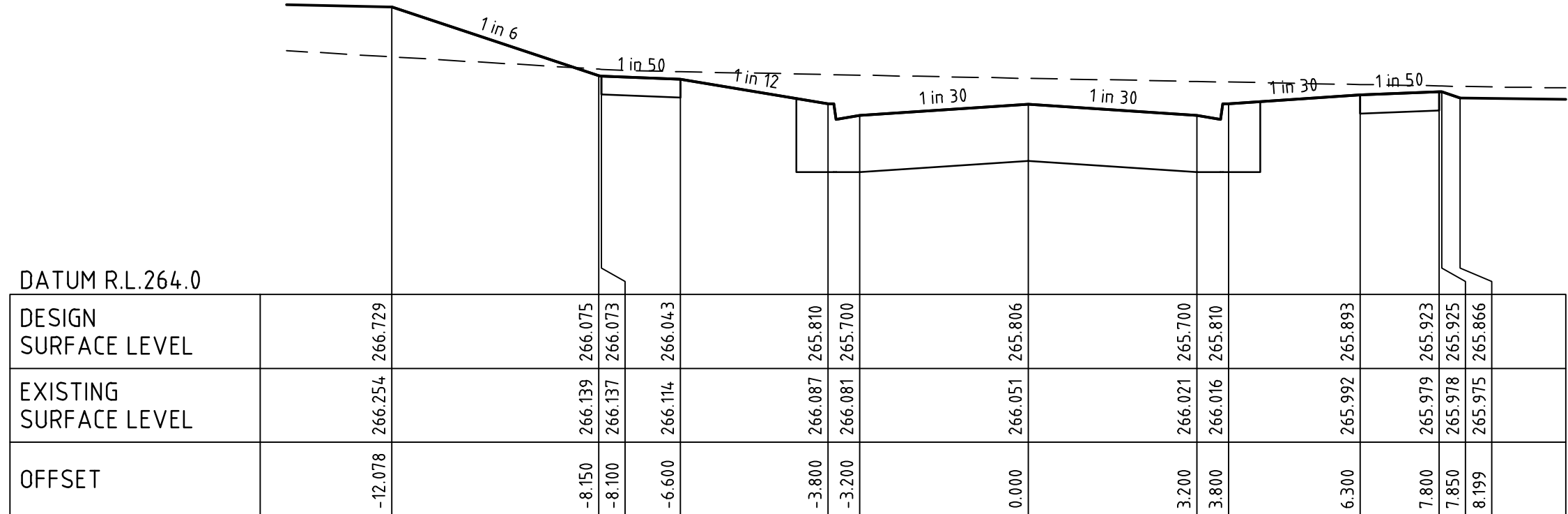
POTTER CIRCUIT

CH 351.26



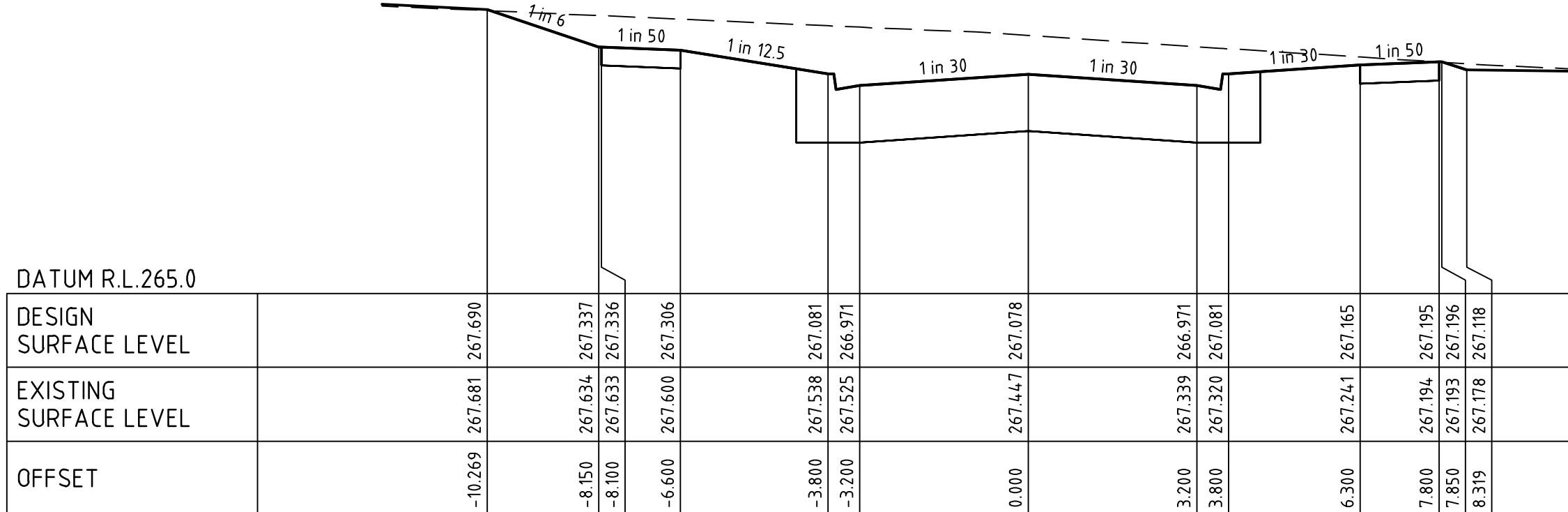
POTTER CIRCUIT

CH 485.49



POTTER CIRCUIT

CH 460.49

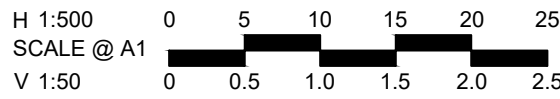


POTTER CIRCUIT

CH 433.99

file name: 304012CR403.dwg, layout name: CR403, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 3:11 PM, Sheet 12 of 31 Sheets

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
B	ISSUED TO COUNCIL	M.T-S.	17-08-20
A	ISSUED FOR TENDER	M.T-S.	14-08-20
Rev	Amendments	Approved	Date



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Designed  
**W.MAY**  
Authorised  
**M.TOOMER-SMITH**



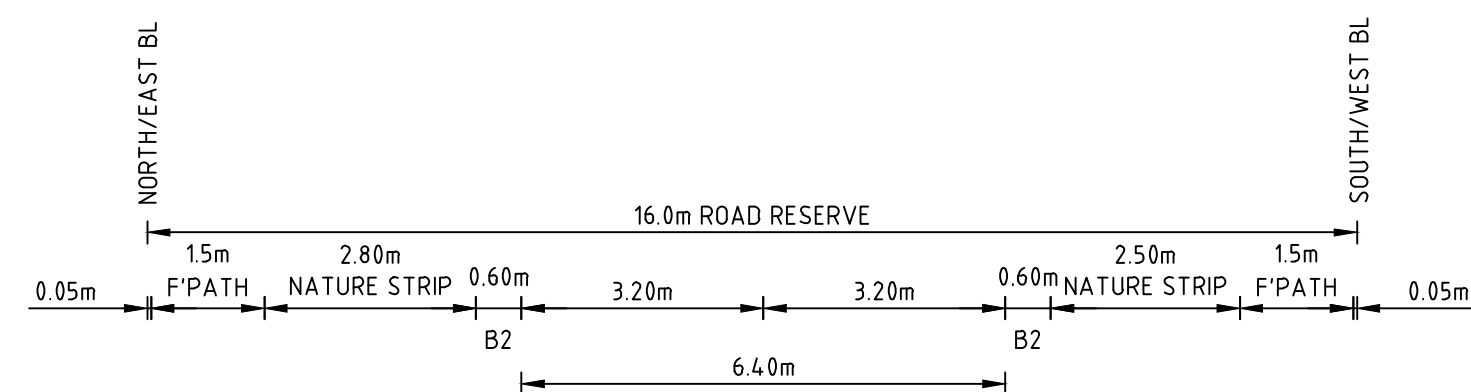
Checked  
**J.KOEHLER**  
Date  
**14-08-20**

**TRIJENA**  
**STAGE 9**  
**ROAD CROSS SECTIONS**  
**SHEET 4**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR403** Rev **1**



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## POTTER CIRCUIT

CH 528.45



## POTTER CIRCUIT

CH 508.54



SCALE 1:50 @ A1



## POTTER CIRCUIT

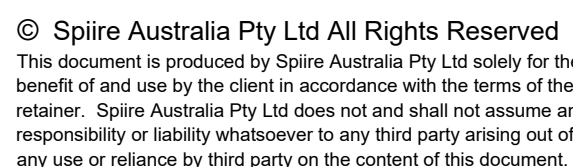
CH 577.85



## POTTER CIRCUIT

CH 549.80

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SCALE @ A1  
V 1:50



Checked  
J.KOEHLER  
Date  
14-08-20

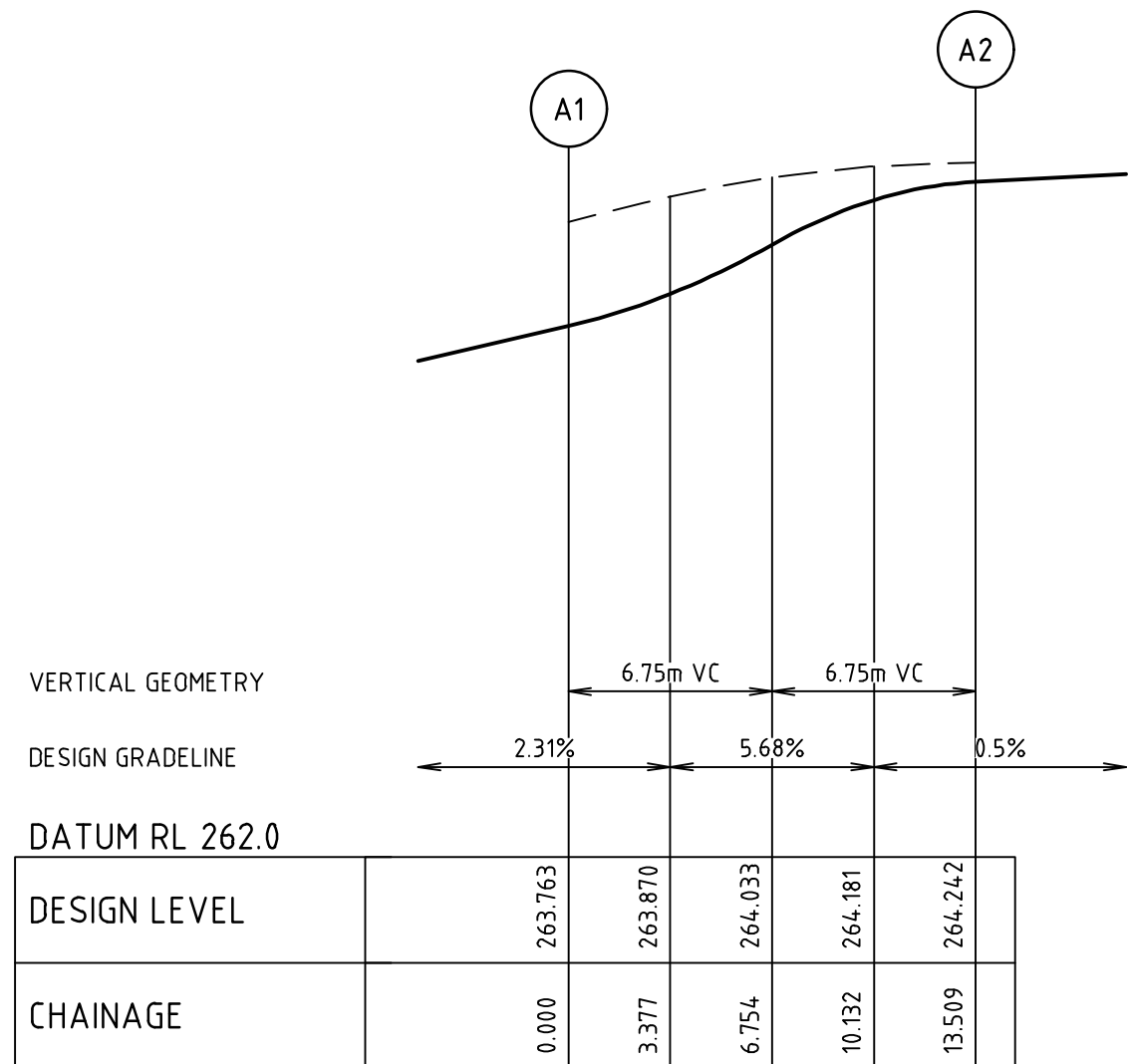
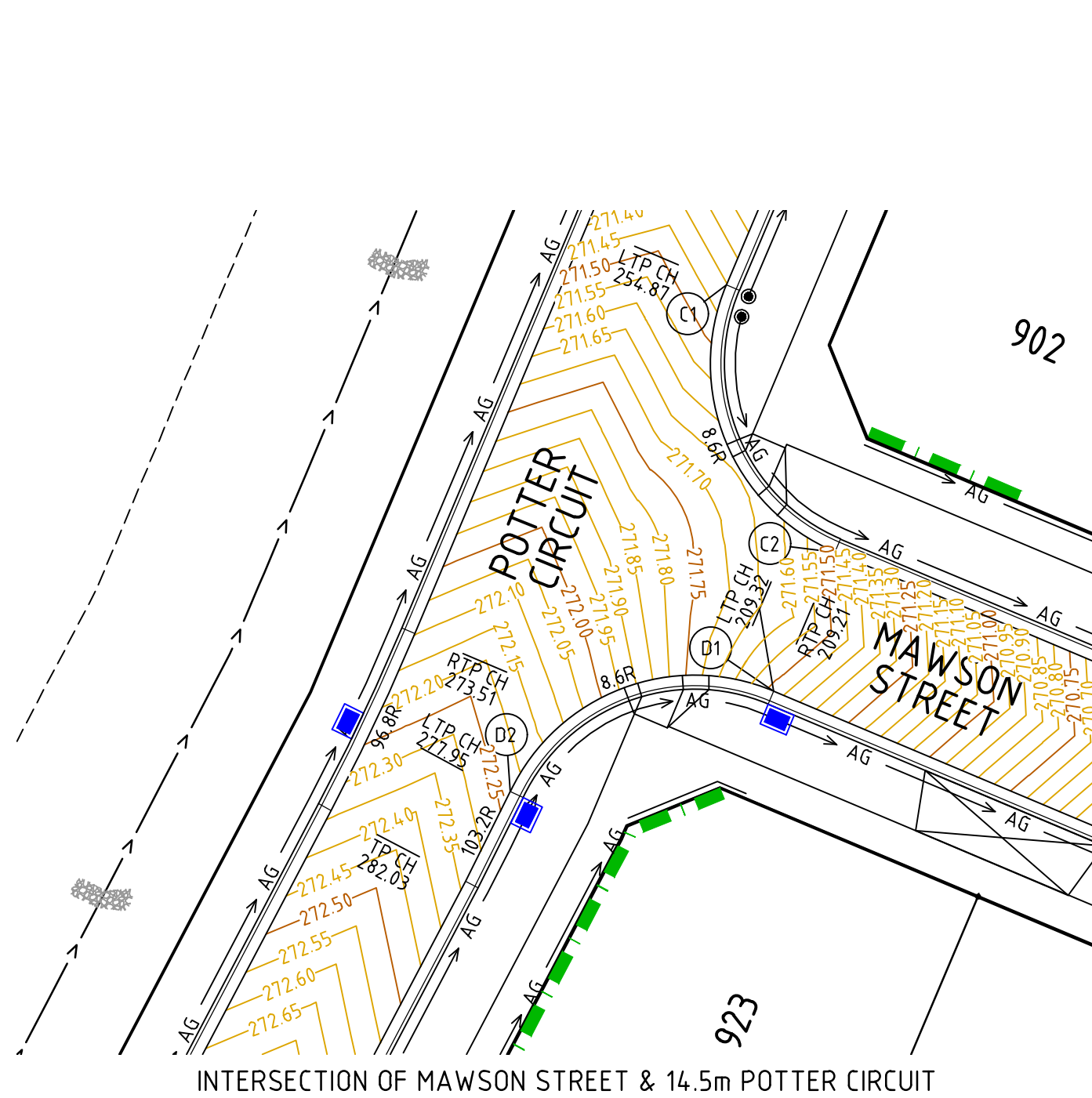
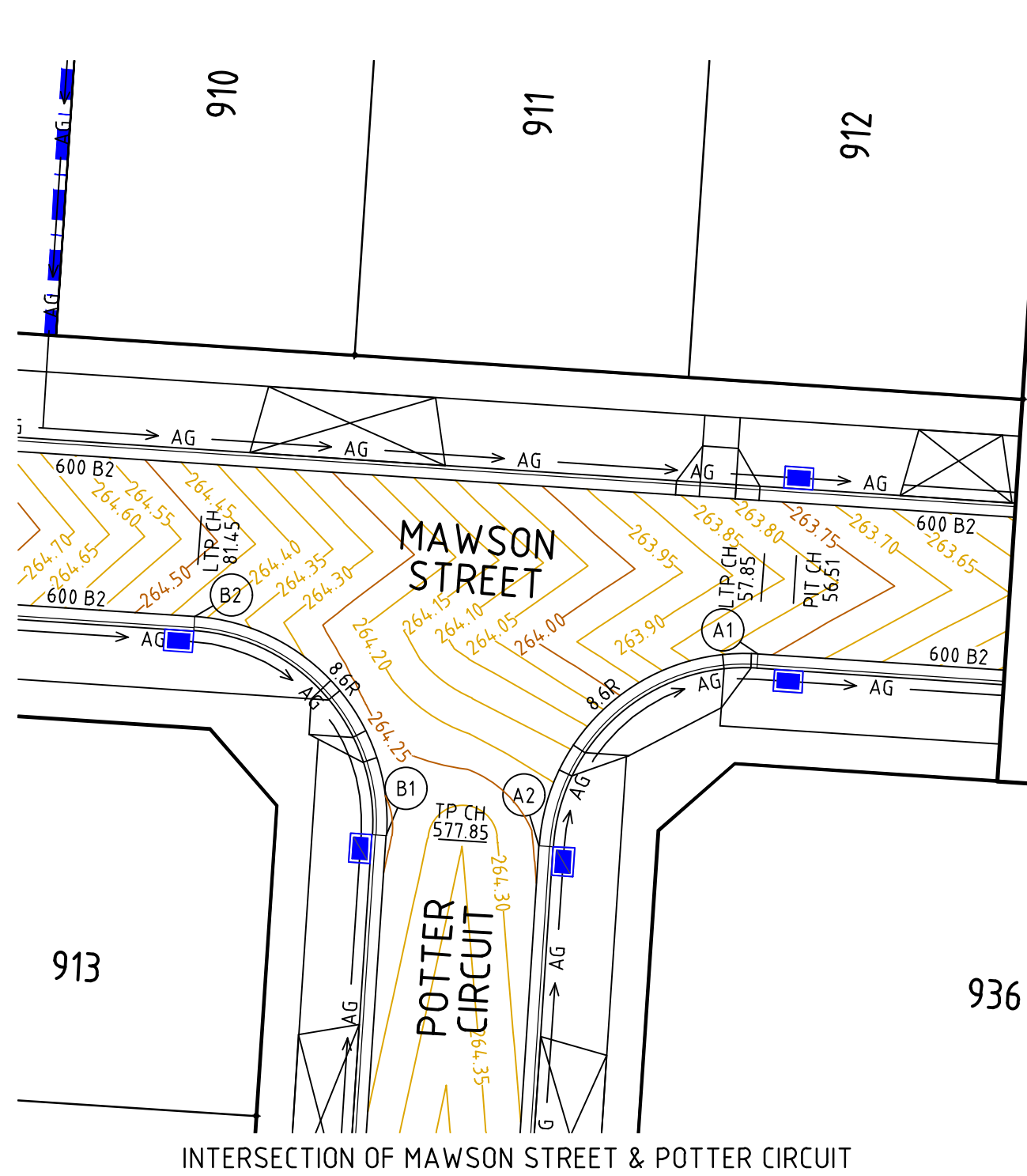
**AS CONSTRUCTED** Drg No **304012CR404**

Drg No

Rev



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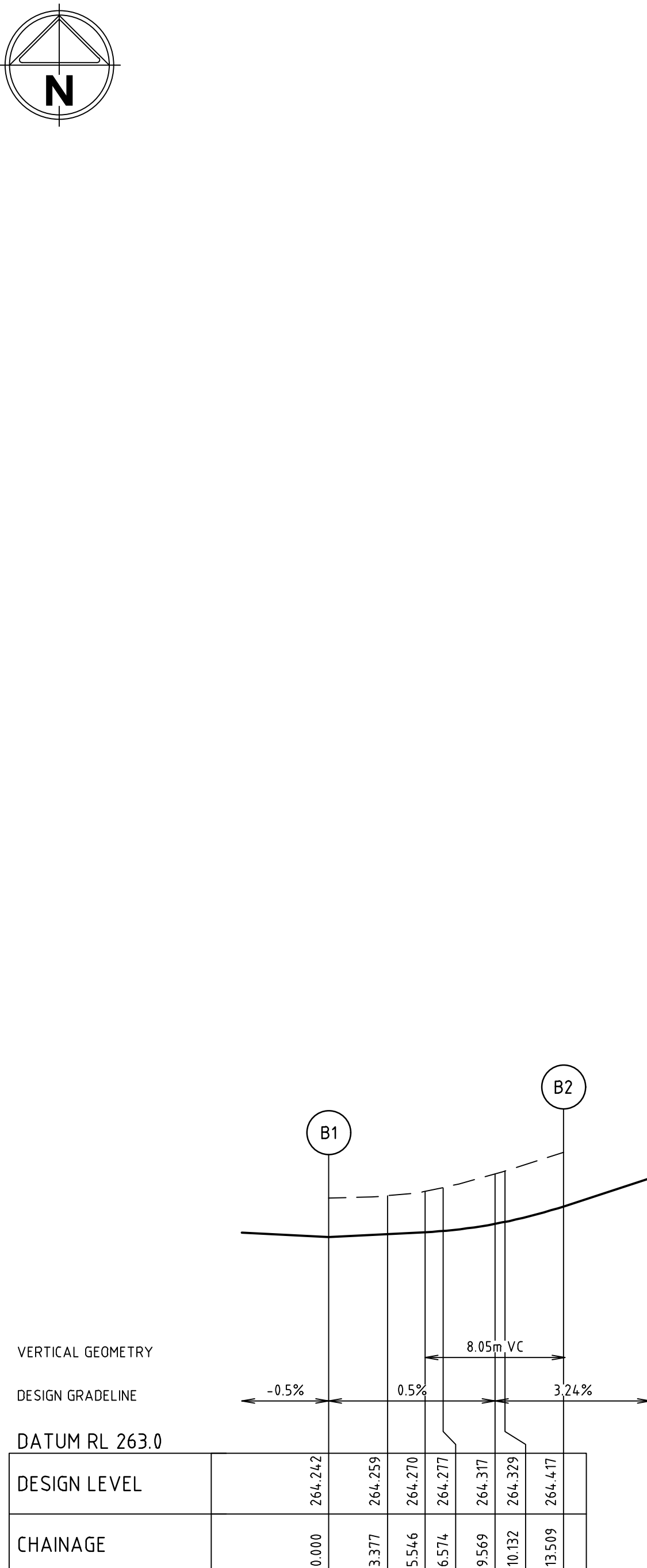
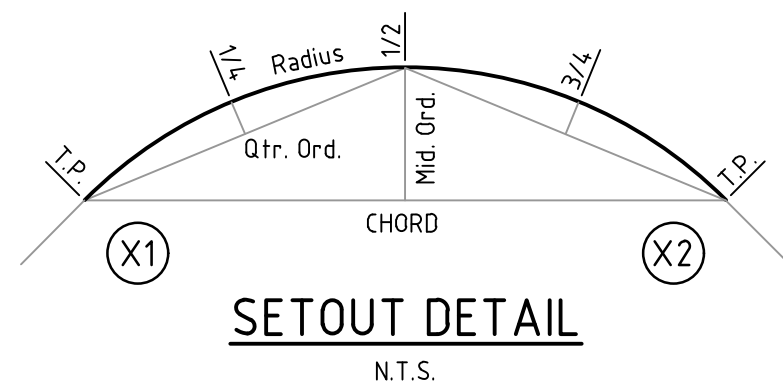


#### ALIGNMENT A

##### ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
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1/2	313633.976	5843028.809	264.033
3/4	313631.932	5843026.148	264.181
A2	313631.062	5843022.907	264.242

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
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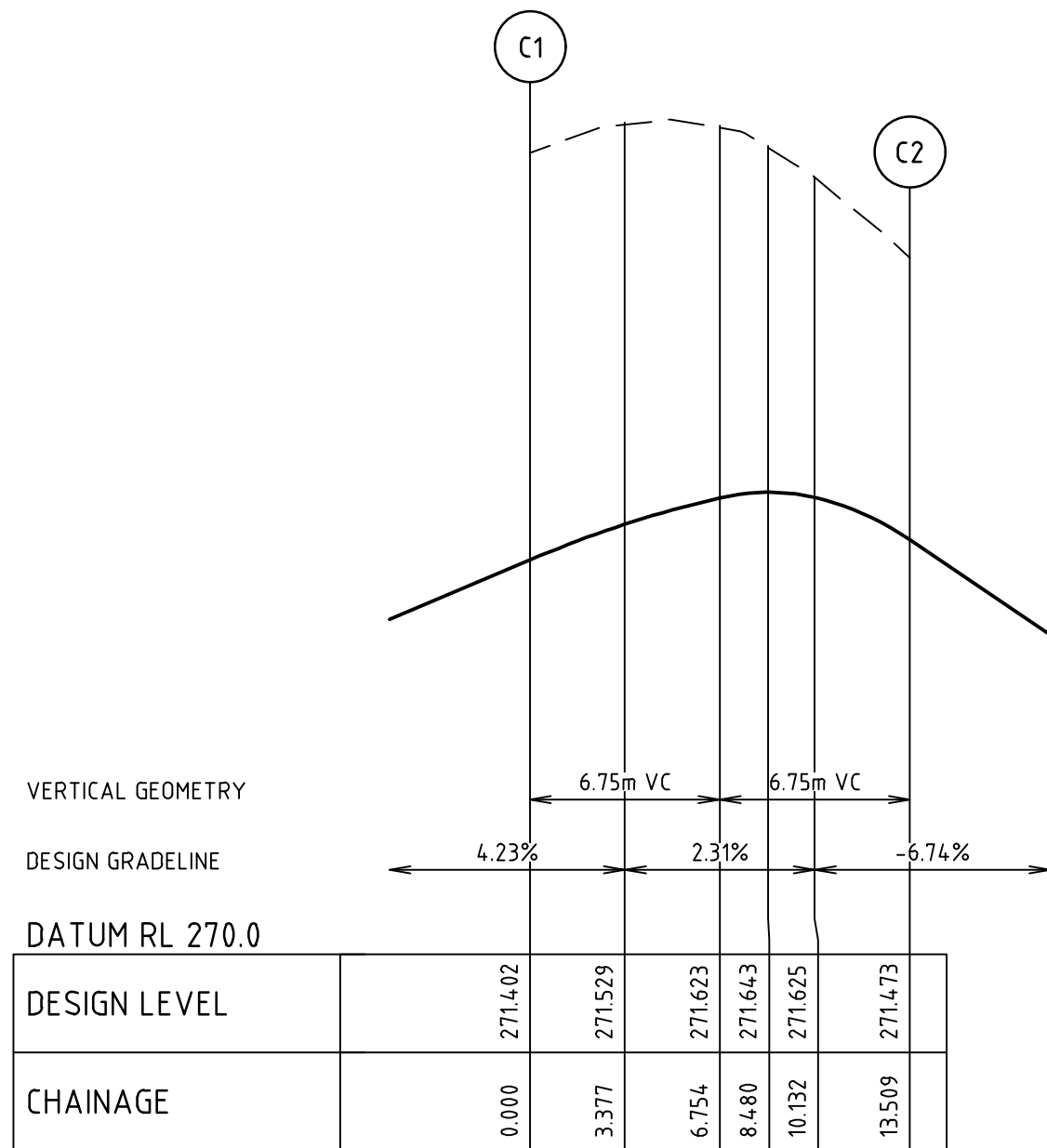


#### ALIGNMENT B

##### ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	313624.676	5843023.329	264.242
1/4	313624.240	5843026.656	264.259
1/2	313622.564	5843029.563	264.277
3/4	313619.903	5843031.608	264.329
B2	313616.662	5843032.478	264.417

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	13.509	12.162	2.519	-0.655

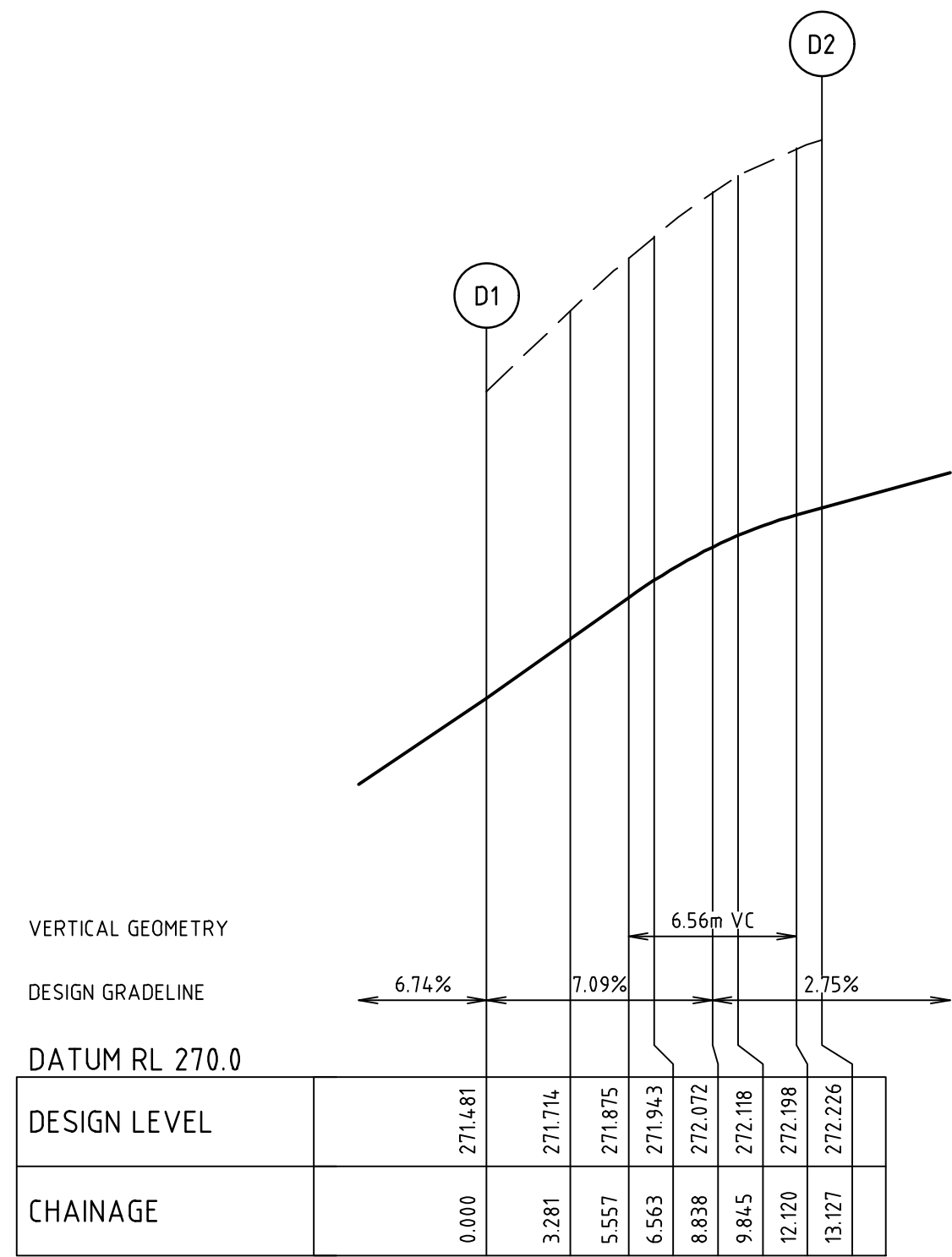


#### ALIGNMENT C

##### ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	313489.714	5843074.312	271.402
1/4	313489.039	5843071.025	271.529
1/2	313489.674	5843067.730	271.623
3/4	313491.521	5843064.929	271.625
C2	313494.299	5843063.047	271.473

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.509	12.162	2.519	-0.655



#### ALIGNMENT D

##### ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	313491.712	5843057.192	271.481
1/4	313488.521	5843057.866	271.714
1/2	313485.308	5843057.303	271.943
3/4	313482.536	5843055.583	272.118
D2	313480.604	5843052.955	272.226

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	13.127	11.889	2.385	-0.619

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1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T.S.	08-12-20
B	ISSUED TO COUNCIL	M.T.S.	17-08-20
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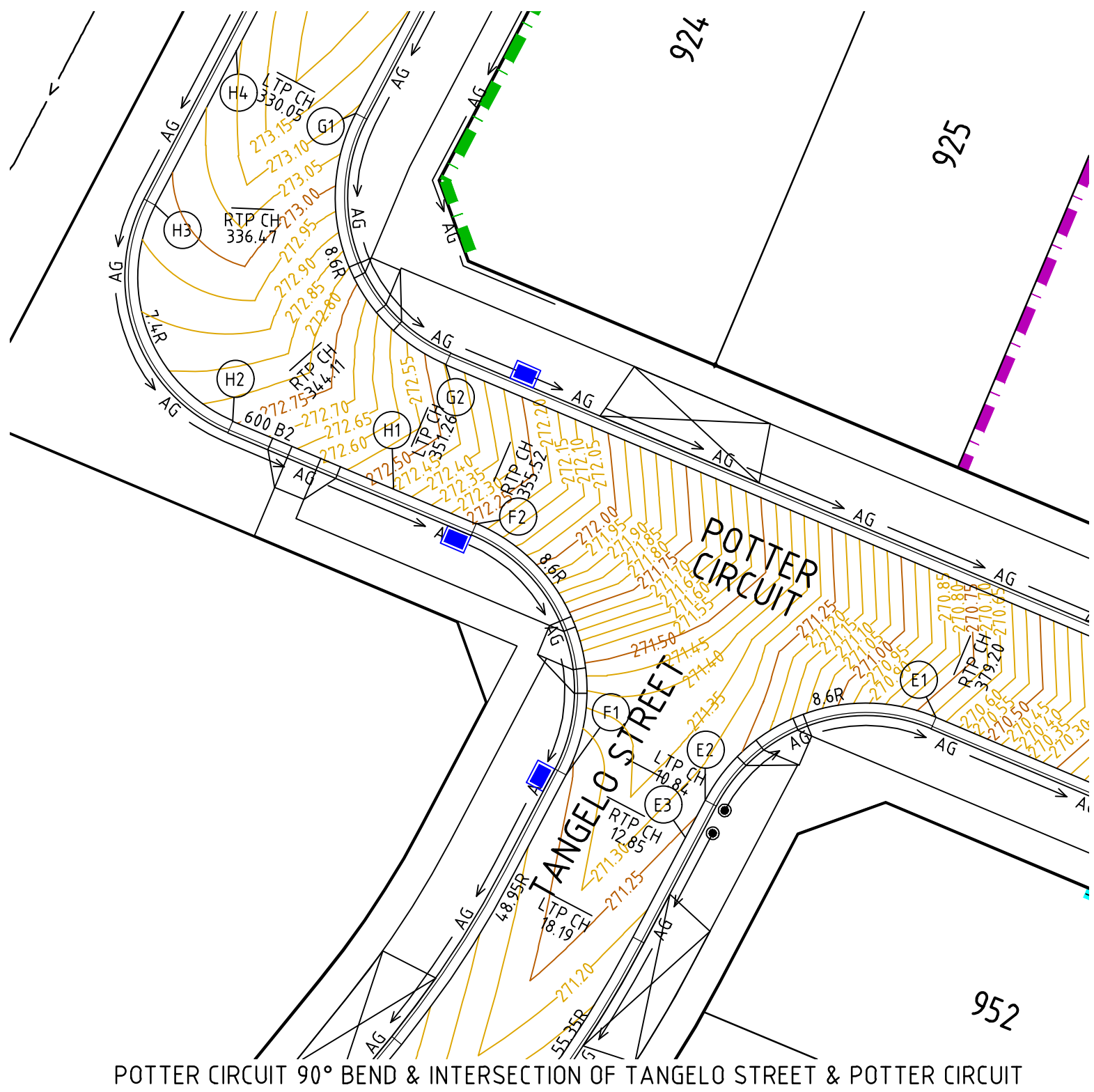
Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
**STAGE 9**  
**ROAD INTERSECTION DETAILS**  
**SHEET 1**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

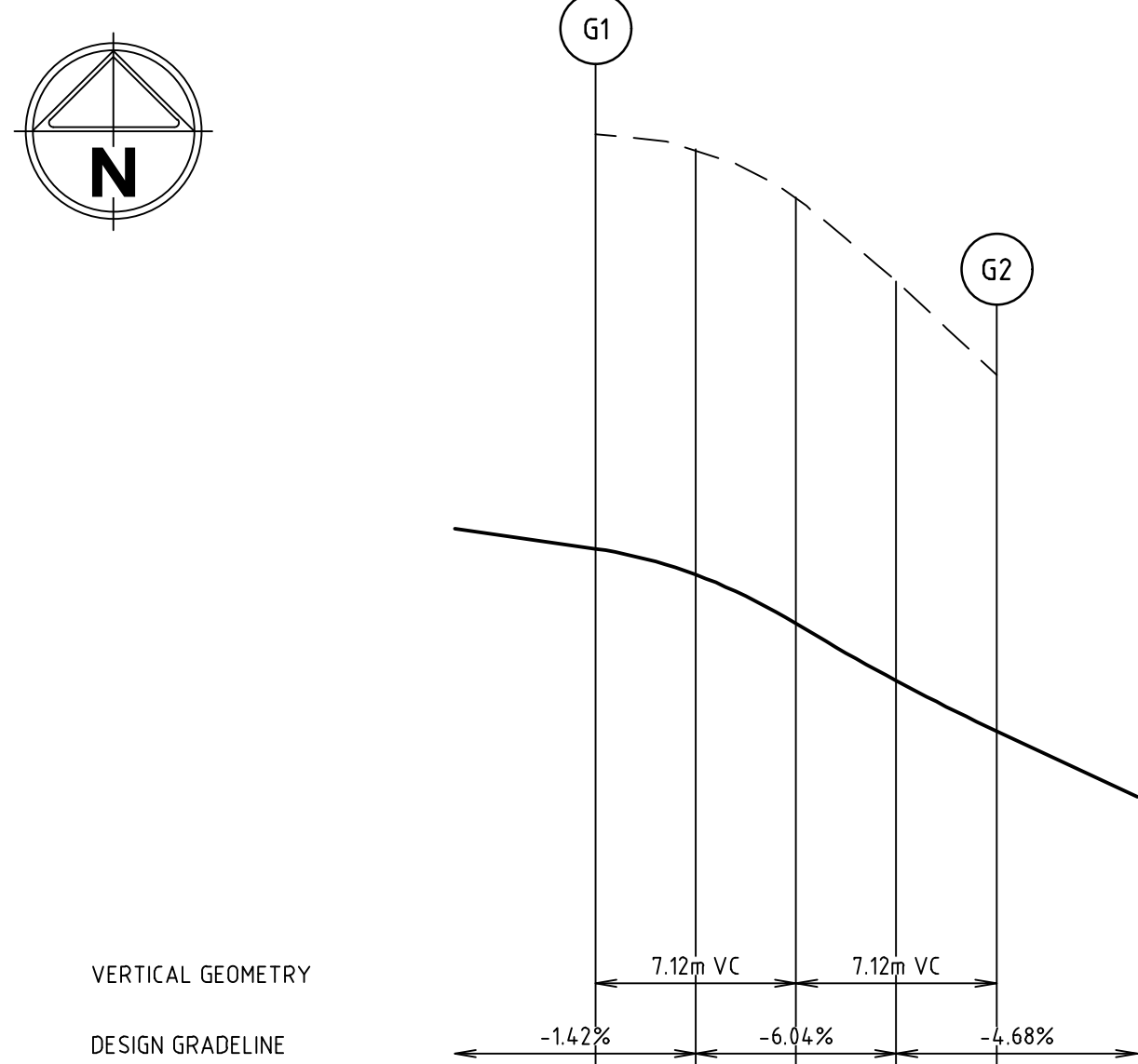
**AS CONSTRUCTED** Drg No  
**304012CR500** Rev  
**1**



file name: 304012CR501.dwg, layout name: CR501, plotted by: Kieren Ayres, file location: G:\304012\304012.dwg, ALCA101 Plot date: 05/08/2021 3:11 PM, Sheet 15 of 31 Sheets



POTTER CIRCUIT 90° BEND & INTERSECTION OF TANGELO STREET & POTTER CIRCUIT

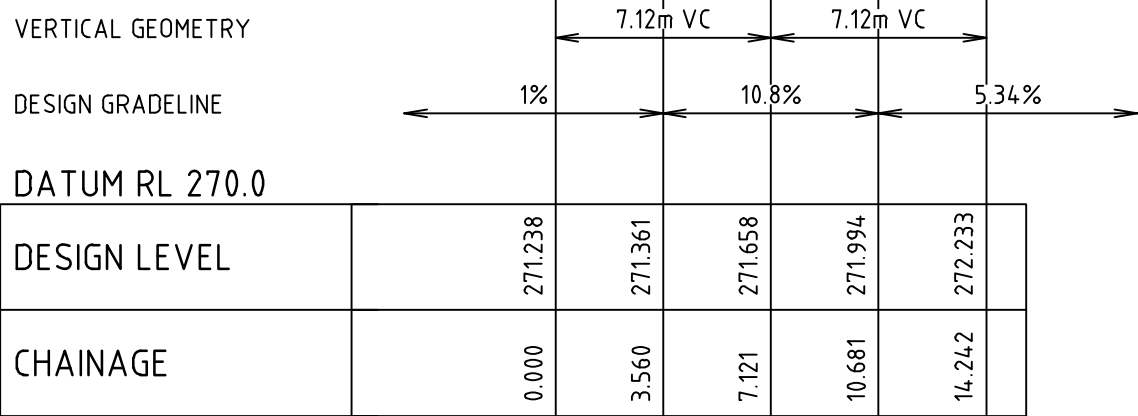


VERTICAL GEOMETRY	
DESIGN GRADELINE	
DATUM RL 271.0	
DESIGN LEVEL	
CHAINAGE	

### ALIGNMENT G

ALIGNMENT G	
POINT NO	EASTING
G1	313456.371
1/4	313455.404
1/2	313455.887
3/4	313457.737
G2	313460.643

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	8.600	14.242	12.669	2.784	-0.727

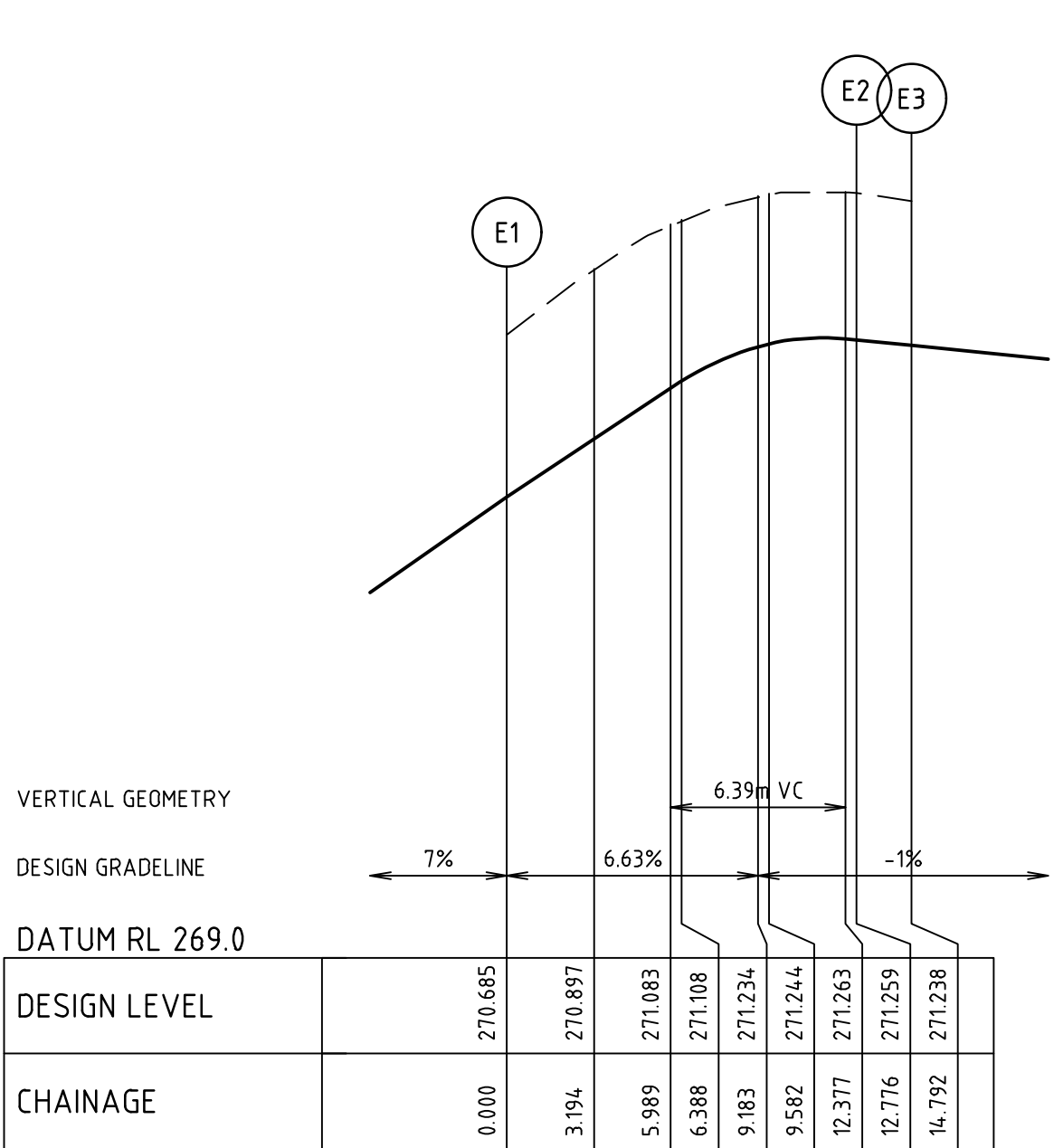


VERTICAL GEOMETRY	
DESIGN GRADELINE	
DATUM RL 270.0	
DESIGN LEVEL	
CHAINAGE	

### ALIGNMENT F

ALIGNMENT F	
POINT NO	EASTING
F1	313466.352
1/4	313467.319
1/2	313466.836
3/4	313464.986
F2	313462.080

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	8.600	14.242	12.669	2.784	-0.727

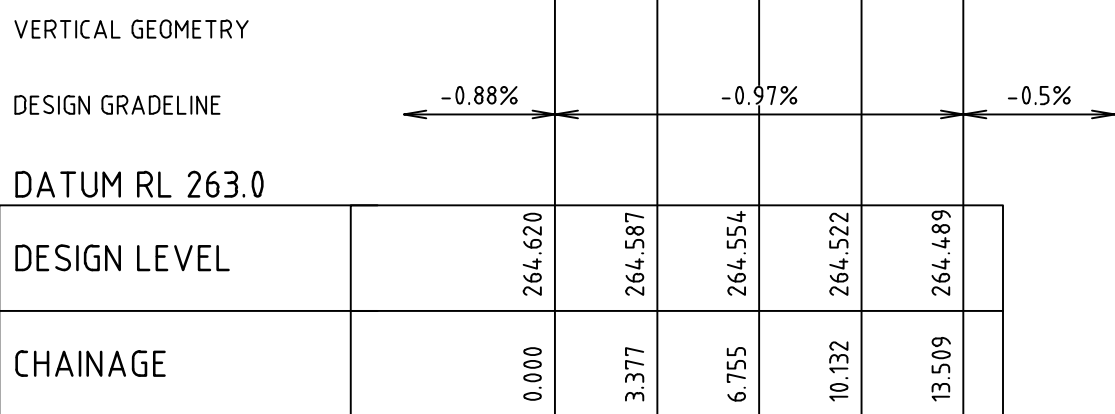


VERTICAL GEOMETRY	
DESIGN GRADELINE	
DATUM RL 269.0	
DESIGN LEVEL	
CHAINAGE	

### ALIGNMENT E

ALIGNMENT E	
POINT NO	EASTING
E1	313483.907
1/4	313480.803
1/2	313477.667
3/4	313474.927
E2	313472.955
E3	313472.017

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	8.600	12.776	11.633	2.265	-0.586



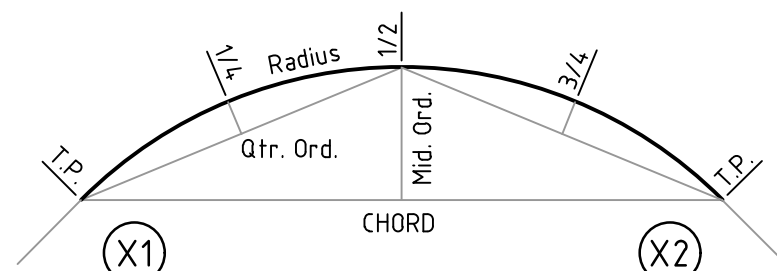
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DESIGN GRADELINE	
DATUM RL 263.0	
DESIGN LEVEL	
CHAINAGE	

### ALIGNMENT I

#### ALIGNMENT J

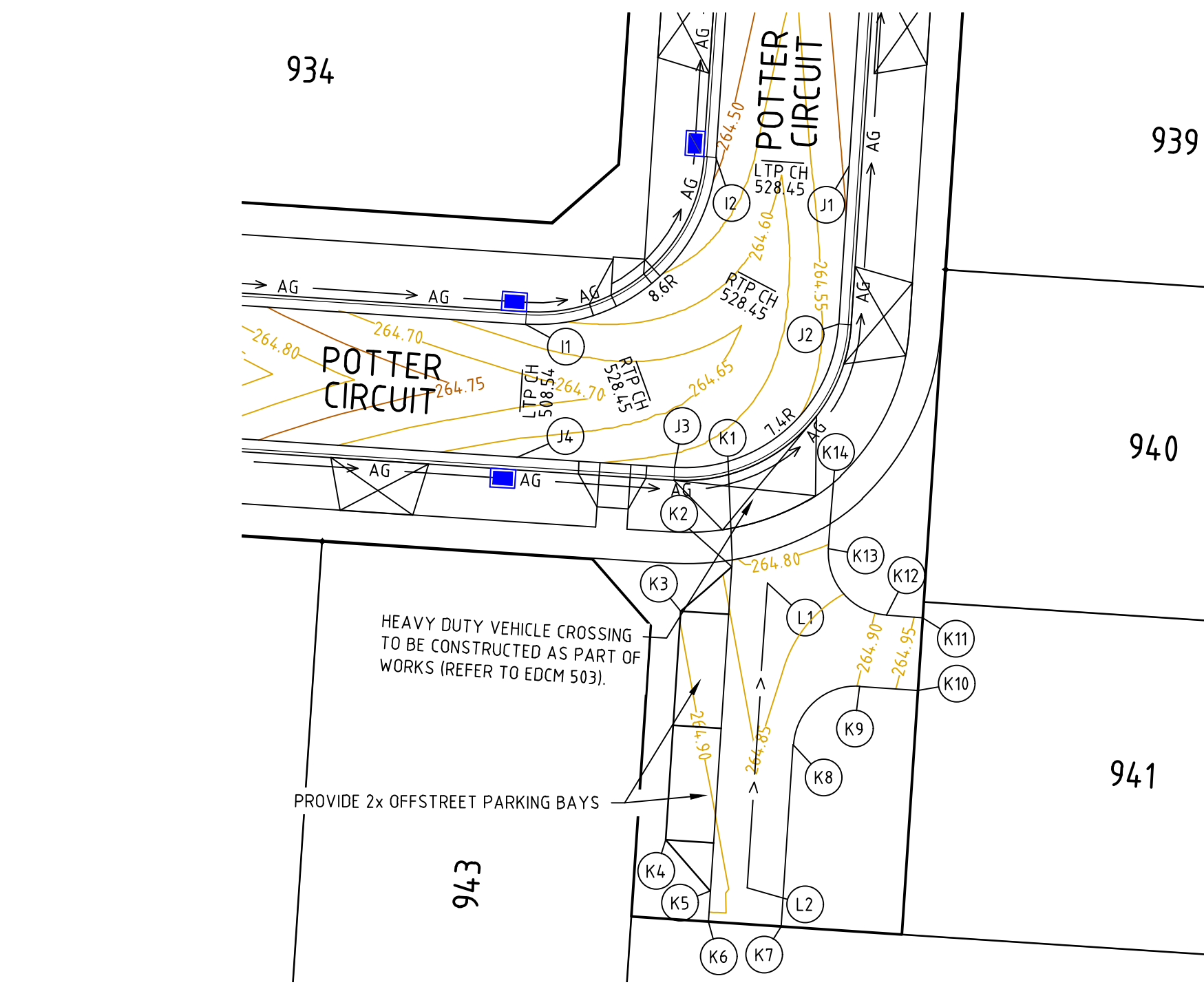
POINT NO	EASTING	NORTHING	RL
I1	313612.267	5842966.023	264.620
1/4	313615.594	5842966.459	264.587
1/2	313618.501	5842968.135	264.554
3/4	313620.546	5842970.796	264.522
I2	313621.416	5842974.037	264.489

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
I1-I2	8.600	13.509	12.162	2.519	-0.655

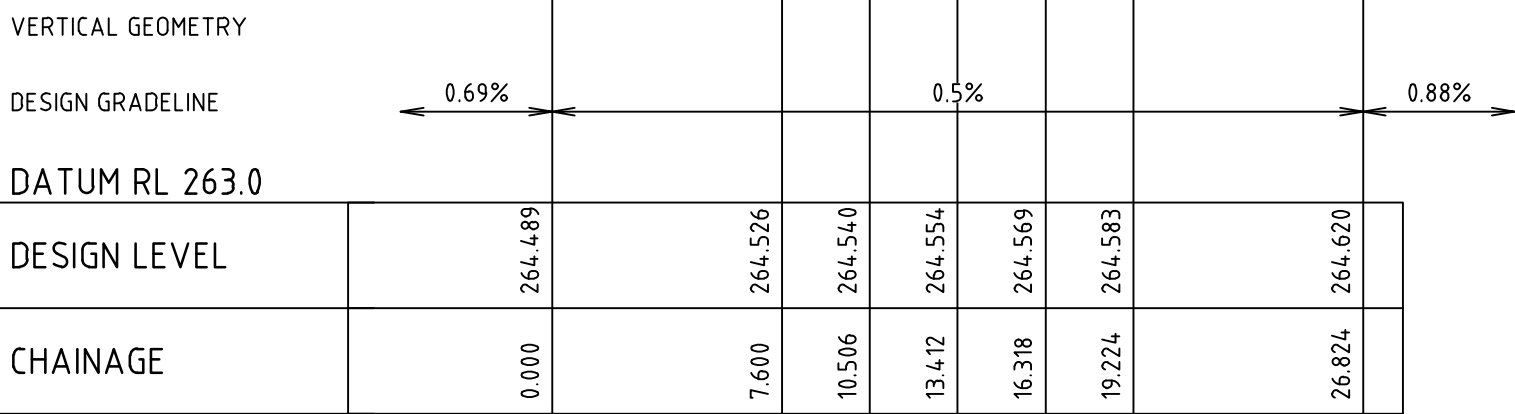


### SETOUT DETAIL

N.T.S.



POTTER CIRCUIT 90° BEND & EXTENDED DRIVEWAY



VERTICAL GEOMETRY	
DESIGN GRADELINE	
DATUM RL 263.0	
DESIGN LEVEL	
CHAINAGE	

### ALIGNMENT J

ALIGNMENT J	
POINT NO	EASTING
J1	313627.802
J2	313627.301
1/4	313626.552
1/2	313624.793
3/4	313622.291
J3	313619.429
J4	313611.845

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J2-J3	7.400	11.624	10.465	2.167	0.563

#### ALIGNMENT K

POINT NO	EASTING	NORTHING	RL
K1	313622.192	5842954.698	264.799
K2	313622.171	5842954.378	264.840
K3	313619.724	5842952.235	264.897
K4	313618.999	5842941.271	264.953
K5	313621.141	5842938.812	264.918
K6	313621.043	5842937.332	264.892
K7	313624.536	5842937.101	264.892
K8	313625.113	5842945.832	264.882
1/4	313625.417	5842946.962	264.866
1/2	313626.120	5842947.890	264.864
3/4	313627.144	5842948.475	264.877
K9	313628.304	5842948.627	264.904
K10	313631.098	5842948.442	264.978
K11	313631.329	5842951.935	264.961
K12	313629.593	5842952.049	264.915
1/4	313628.463	5842952.353	264.884
1/2	313627.535	5842953.066	264.853
3/4	313626.950	5842954.080	264.825
K13	313626.798	5842955.241	264.804
K14	313626.877	5842956.435	264.792

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
K8-K9	3.000	4.712	4.243	0.879	0.228
K12-K13	3.000	4.712	4.243	0.879	0.228

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
B	ISSUED TO COUNCIL	M.T-S.	17-08-20
A	ISSUED FOR TENDER	M.T-S.	14-08-20
Rev	Amendments	Approved	Date

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M.TOOMER-SMITH



Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
**STAGE 9**  
**ROAD INTERSECTION DETAILS**  
**SHEET 2**  
HUME CITY COUNCIL  
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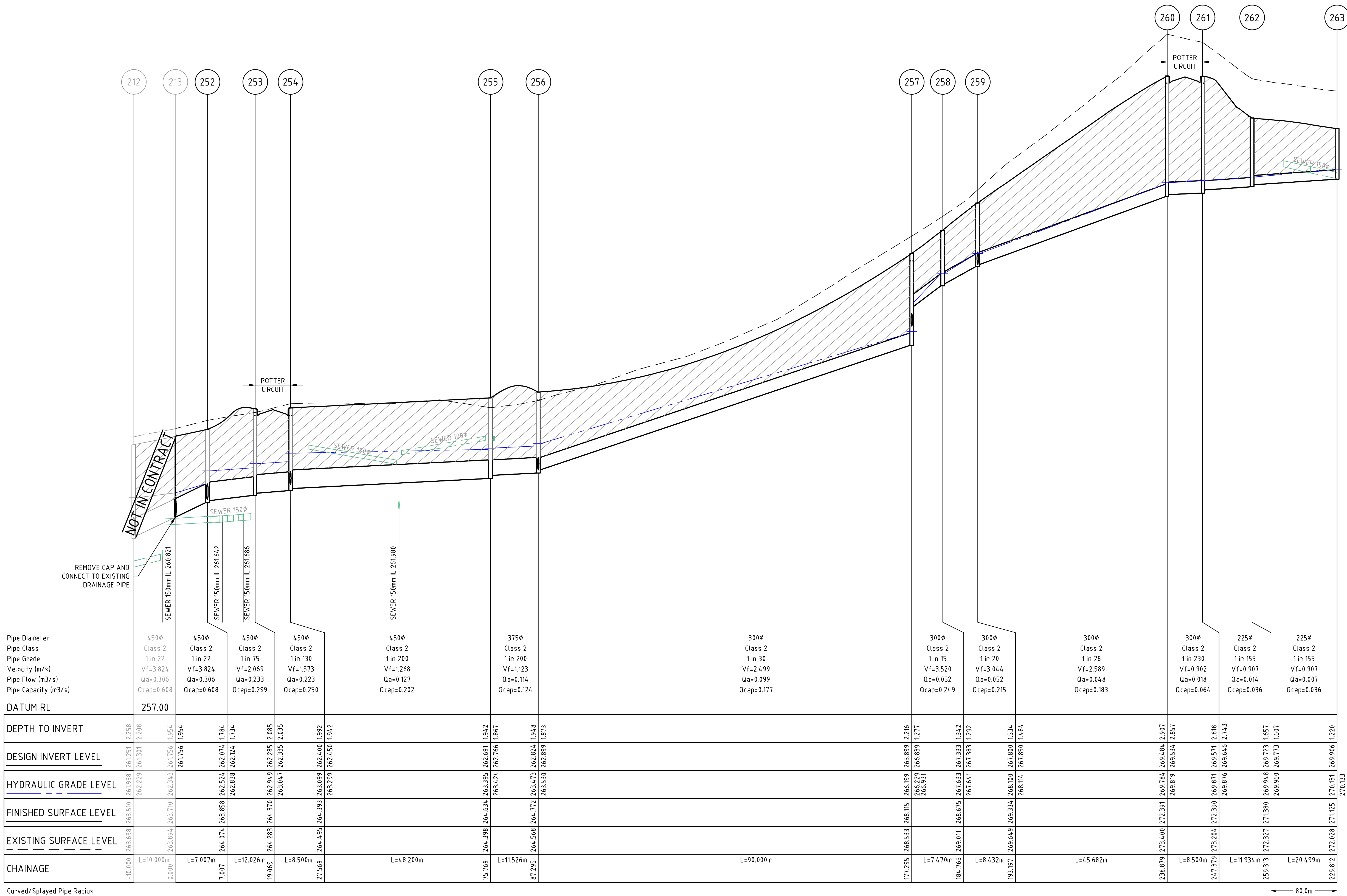
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BACKFILL AS PER RETAINING WALL STRUCTURAL DRAWINGS

CRUSHED ROCK BACKFILL



Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	AMENDED PIT 252 & RESULTING CHAINAGES, GRADES & LEVELS	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20

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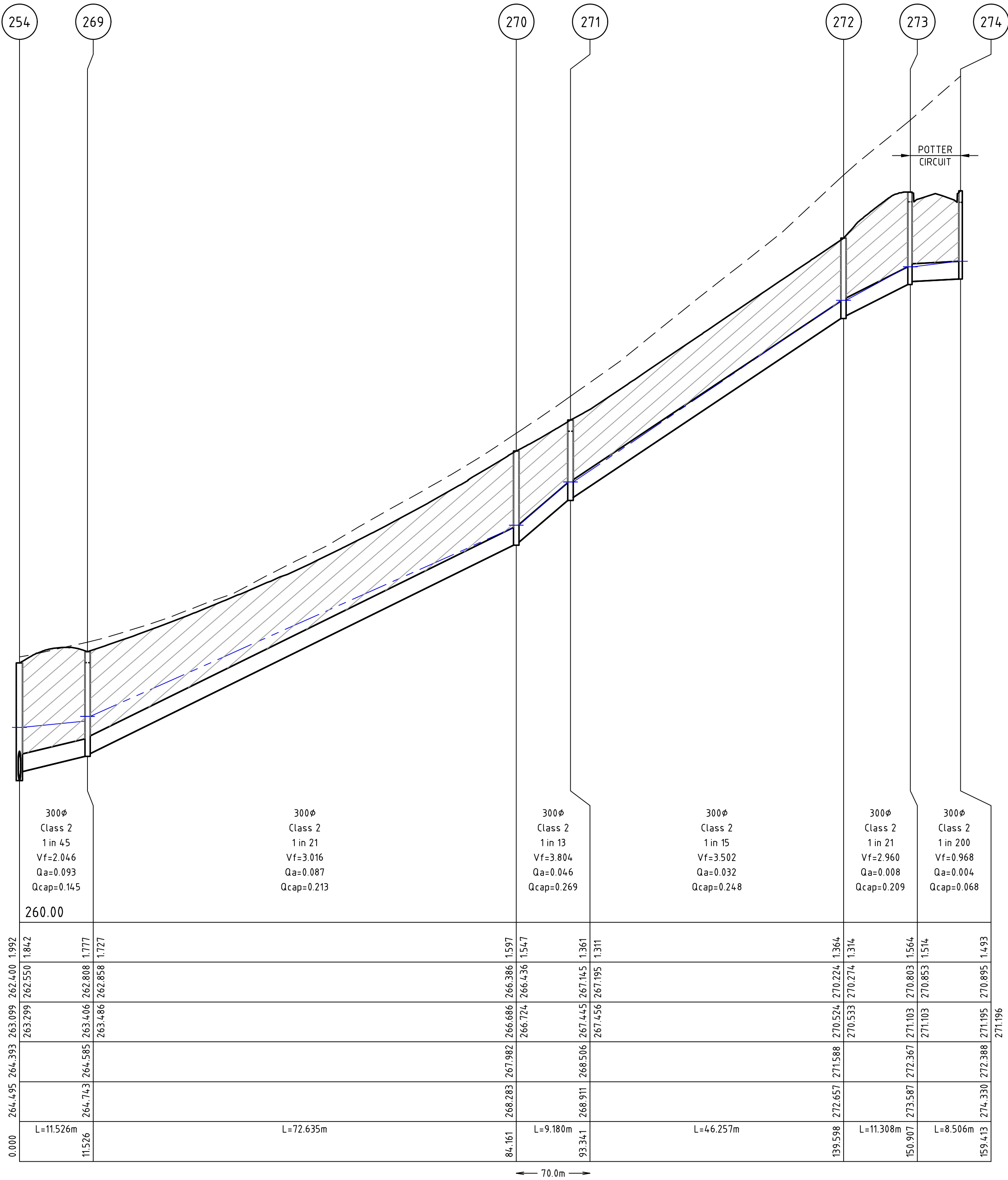
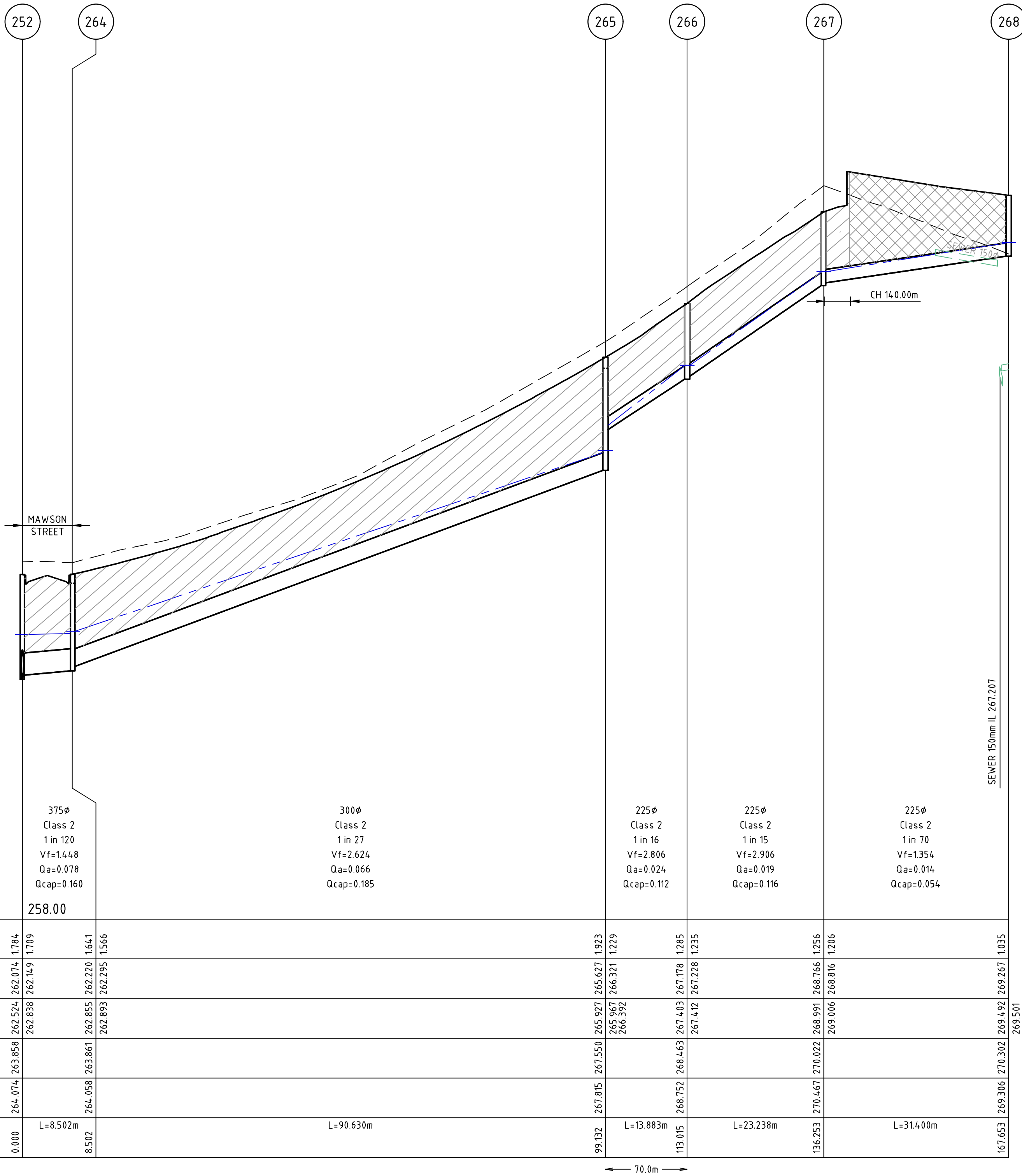
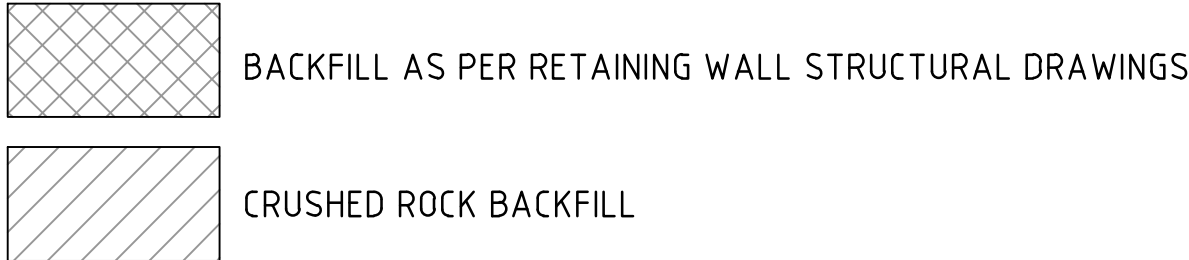
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Date  
**14-08-20**

**TRIJENA  
STAGE 9  
ROAD DRAINAGE PLANS  
DRAINAGE LONG SECTIONS - SHEET 1 OF 3  
HUME CITY COUNCIL  
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**AS CONSTRUCTED** Drg No **304012CR600** Rev **1**



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Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	AMENDED PIT 252 & 264 & RESULTING CHAINAGES, GRADES & LEVELS	M.T-S.	24-09-20
B	ISSUED TO COUNCIL	M.T-S.	17-08-20
A	ISSUED FOR TENDER	M.T-S.	14-08-20

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**TRIJENA**  
**STAGE 9**  
**ROAD DRAINAGE PLANS**  
**DRAINAGE LONG SECTIONS - SHEET 2 OF 3**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

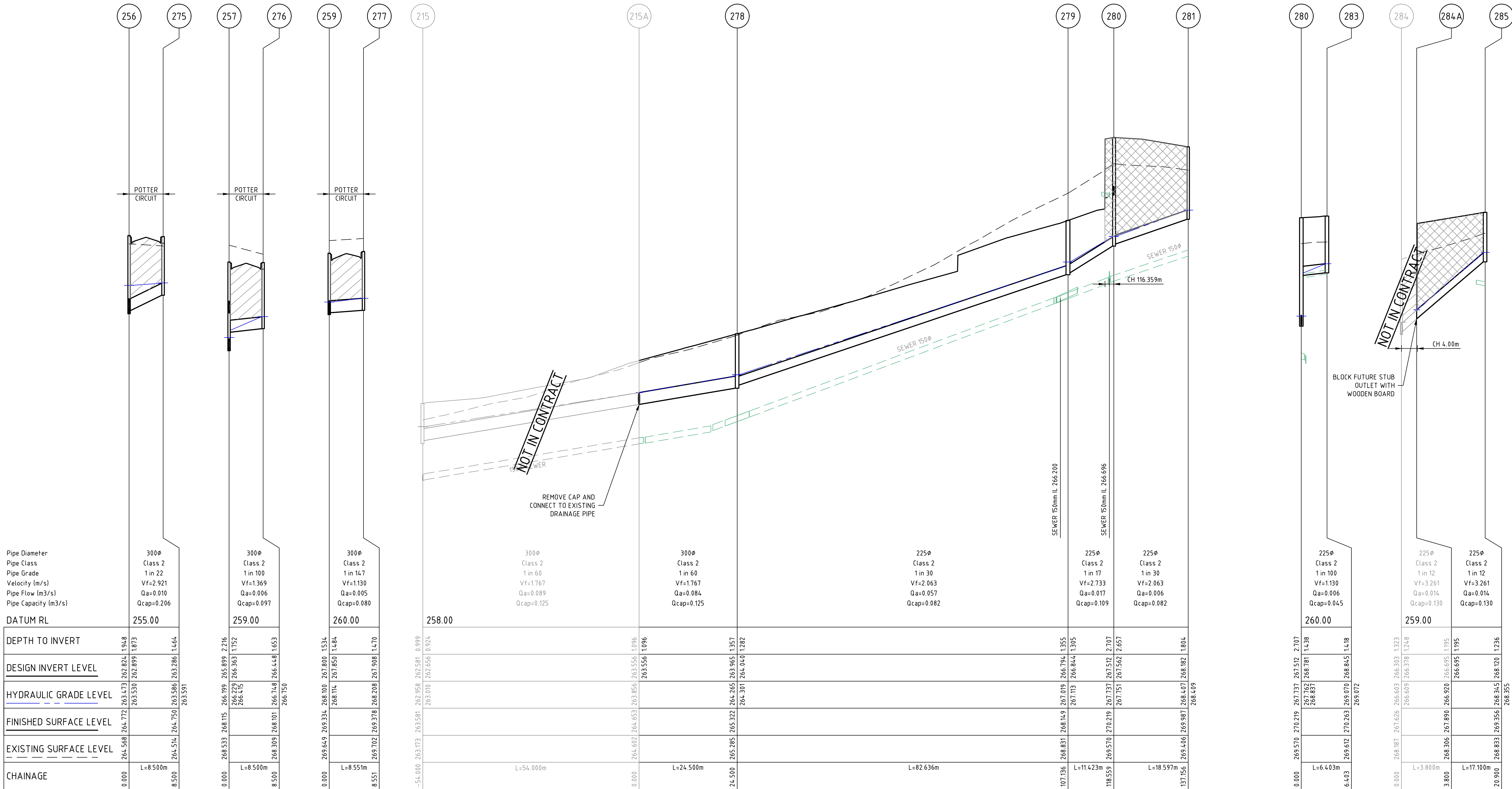
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BACKFILL AS PER RETAINING WALL STRUCTURAL DRAWINGS

CRUSHED ROCK BACKFILL



Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	R.W.	05-08-21
1	DRAINAGE ALIGNMENT AMENDED	M.T.S.	20-01-21
0	ISSUED FOR CONSTRUCTION	M.T.S.	08-12-20
B	ISSUED TO COUNCIL	M.T.S.	17-08-20
A	ISSUED FOR TENDER	M.T.S.	14-08-20

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**14-08-20**

**TRIJENA**  
**STAGE 9**  
**ROAD DRAINAGE PLANS**  
**DRAINAGE LONG SECTIONS - SHEET 3 OF 3**  
**HUME CITY COUNCIL**  
**PGG (MICKLEHAM) PTY LTD**

**AS CONSTRUCTED** Drg No **304012CR602** Rev **2**



file name: 304012CR603.dwg, layout name: CR603, created by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 3:11 PM, Sheet 19 of 31 Sheets

DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
Ex 212	JUNCTION PIT	750	900	450	261.301	450	261.251	263.510	2.258	REFER TO GAA EDCM STD DWG FIGS 607
				450	261.301					
213	ENDPIPE			450	261.756	450	261.756	263.710	1.954	CONNECT TO EXISTING ENDPIPE
252	JUNCTION PIT	750	900	450	262.124	450	262.074	263.858	1.784	REFER TO GAA EDCM STD DWG FIGS 607
				375	262.149					
253	GRATED SIDE ENTRY PIT	600	900	450	262.335	450	262.285	264.370	2.085	REFER TO GAA EDCM STD DWG FIGS 601 & 607
254	GRATED SIDE ENTRY PIT	750	900	450	262.450	450	262.400	264.393	1.992	REFER TO GAA EDCM STD DWG FIGS 601 & 607
				300	262.550					
255	JUNCTION PIT	750	900	375	262.766	450	262.691	264.634	1.942	REFER TO GAA EDCM STD DWG FIGS 607
256	GRATED SIDE ENTRY PIT	600	900	300	262.899	375	262.824	264.772	1.948	REFER TO GAA EDCM STD DWG FIGS 601 & 605
				300	262.899					
257	GRATED SIDE ENTRY PIT	600	900	300	266.839	300	265.899	268.115	2.216	REFER TO GAA EDCM STD DWG FIGS 601 & 605
				300	266.363					
258	JUNCTION PIT	600	900	300	267.383	300	267.333	268.675	1.342	REFER TO GAA EDCM STD DWG FIGS 605
259	JUNCTION PIT	600	900	300	267.850	300	267.800	269.334	1.534	REFER TO GAA EDCM STD DWG FIGS 605
				300	267.850					
260	GRATED SIDE ENTRY PIT	600	900	300	269.534	300	269.484	272.391	2.907	REFER TO GAA EDCM STD DWG FIGS 601 & 605
261	GRATED SIDE ENTRY PIT	600	900	225	269.646	300	269.571	272.390	2.818	REFER TO GAA EDCM STD DWG FIGS 601 & 605
262	JUNCTION PIT	600	900	225	269.773	225	269.723	271.380	1.657	REFER TO GAA EDCM STD DWG FIGS 605
263	JUNCTION PIT	600	900			225	269.906	271.125	1.220	REFER TO GAA EDCM STD DWG FIGS 605
264	GRATED SIDE ENTRY PIT	600	900	300	262.295	375	262.220	263.861	1.641	REFER TO GAA EDCM STD DWG FIGS 601 & 605
265	GRATED SIDE ENTRY PIT	600	900	225	266.321	300	265.627	267.550	1.923	REFER TO GAA EDCM STD DWG FIGS 601 & 605
266	JUNCTION PIT	600	900	225	267.228	225	267.178	268.463	1.285	REFER TO GAA EDCM STD DWG FIGS 605
267	JUNCTION PIT	600	900	225	268.816	225	268.766	270.022	1.256	REFER TO GAA EDCM STD DWG FIGS 605
268	JUNCTION PIT	600	900			225	269.267	270.302	1.035	REFER TO GAA EDCM STD DWG FIGS 605
269	GRATED SIDE ENTRY PIT	600	900	300	262.858	300	262.808	264.585	1.777	REFER TO GAA EDCM STD DWG FIGS 601 & 605
270	JUNCTION PIT	600	900	300	266.436	300	266.386	267.982	1.597	REFER TO GAA EDCM STD DWG FIGS 605
271	GRATED SIDE ENTRY PIT	600	900	300	267.195	300	267.145	268.506	1.361	REFER TO GAA EDCM STD DWG FIGS 601 & 605
272	JUNCTION PIT	600	900	300	270.274	300	270.224	271.588	1.364	REFER TO GAA EDCM STD DWG FIGS 605
273	GRATED SIDE ENTRY PIT	600	900	300	270.853	300	270.803	272.367	1.564	REFER TO GAA EDCM STD DWG FIGS 601 & 605
274	GRATED SIDE ENTRY PIT	600	900			300	270.895	272.388	1.493	REFER TO GAA EDCM STD DWG FIGS 601 & 605
275	GRATED SIDE ENTRY PIT	600	900			300	263.286	264.750	1.464	REFER TO GAA EDCM STD DWG FIGS 601 & 605
276	GRATED SIDE ENTRY PIT	600	900			300	266.448	268.101	1.653	REFER TO GAA EDCM STD DWG FIGS 601 & 605
277	JUNCTION PIT	600	900			300	267.908	269.378	1.470	REFER TO GAA EDCM STD DWG FIGS 605
Ex 215	JUNCTION PIT	600	900	300	262.656	375	262.581	263.581	0.999	REFER TO GAA EDCM STD DWG FIGS 605
215A	ENDPIPE			300	263.556	300	263.556	264.653	1.096	CONNECT TO EXISTING ENDPIPE
278	JUNCTION PIT	600	900	225	264.040	300	263.965	265.322	1.357	REFER TO GAA EDCM STD DWG FIGS 605
279	JUNCTION PIT	600	900	225	266.844	225	266.794	268.149	1.355	REFER TO GAA EDCM STD DWG FIGS 605
280	JUNCTION PIT	600	900	225	267.562	225	267.512	270.219	2.707	REFER TO GAA EDCM STD DWG FIGS 605
				225	268.781					
281	JUNCTION PIT	600	900			225	268.182	269.987	1.804	REFER TO GAA EDCM STD DWG FIGS 605
283	JUNCTION PIT	900	600			225	268.845	270.263	1.418	REFER TO GAA EDCM STD DWG FIGS 605
284A	ENDPIPE			225	266.695	225	266.695	267.890	1.195	BLANK OFF OUTLET WITH TIMBER BOARD FOR FUTURE CONNECTION
285	JUNCTION PIT	900	600			225	268.120	269.356	1.236	REFER TO GAA EDCM STD DWG FIGS 605

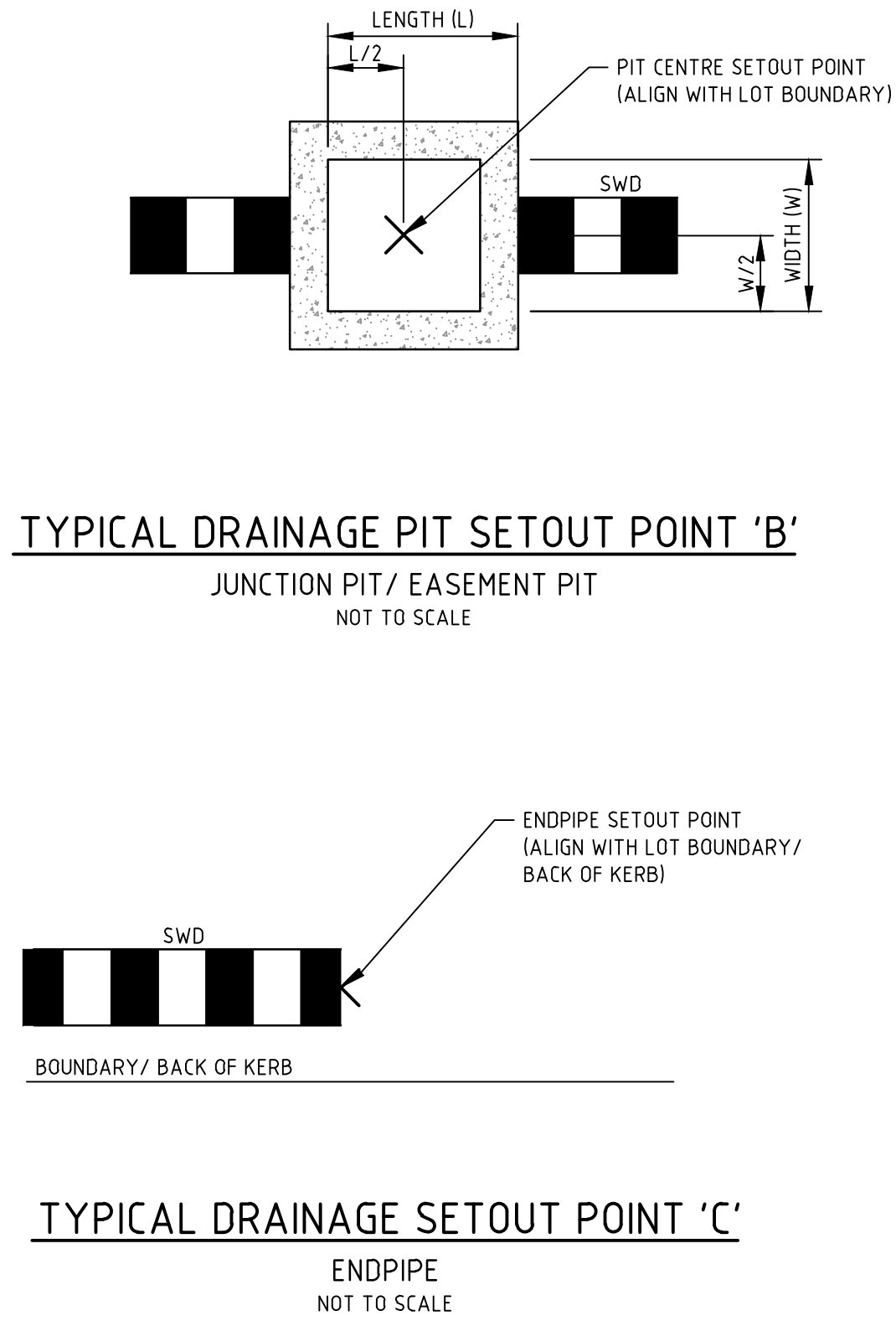
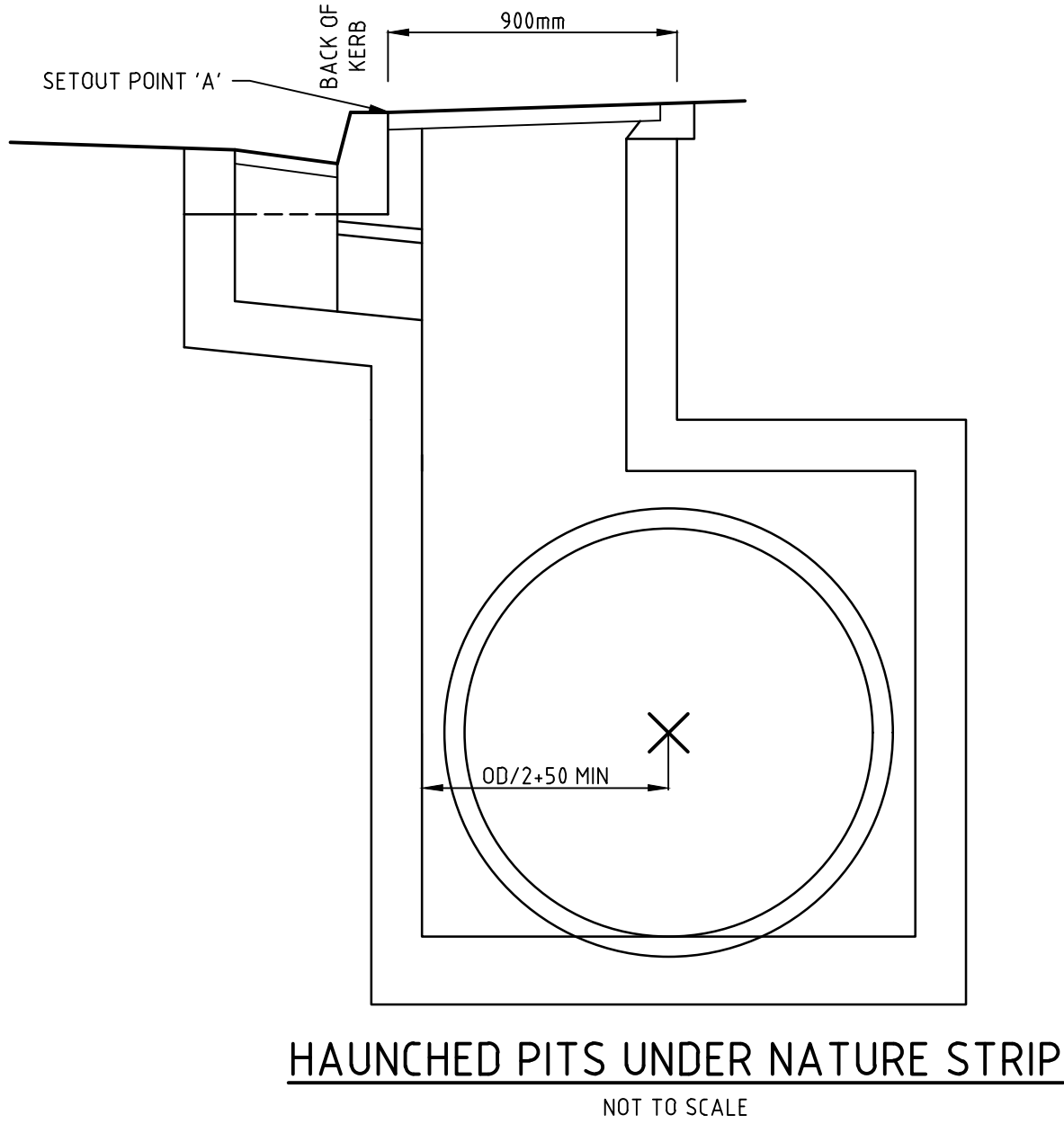
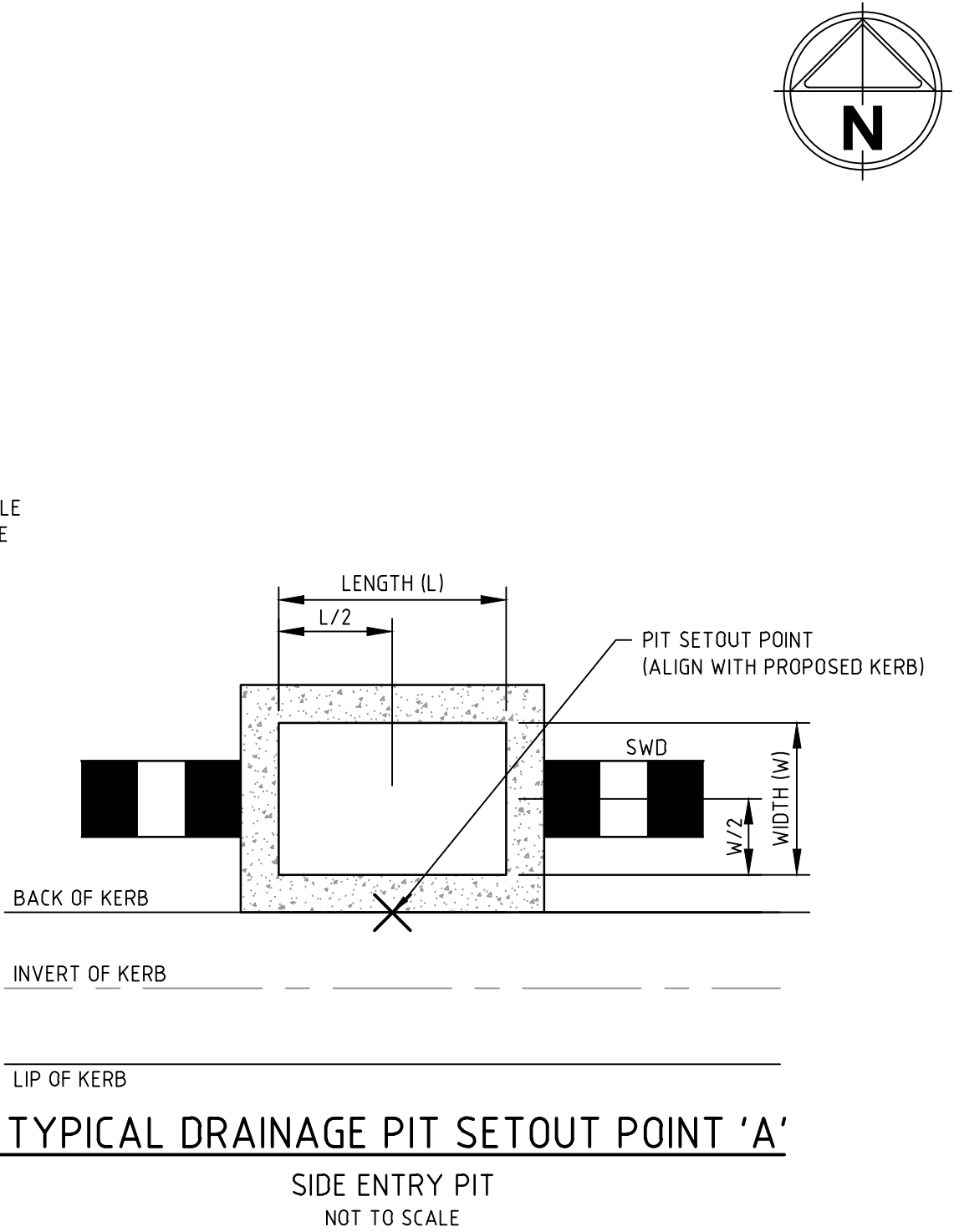
NOTE:  
PROVIDE DEFLECTION IN DRAINAGE PIT FLOOR WHEN DRAINAGE PIPE DEFLECTION THOUGHT PIT IS BETWEEN 50° TO 90° FOR PIPE DIAMETERS LESS THAN 675mm. THIS APPLIES TO PITS 256, 260 & 264.

PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHING
258	A	313514.418	5842973.439
281	B	313469.845	5842922.690
284A	C	313539.961	5843111.139
285	B	313533.710	5843096.302

PROPERTY INLET NOTES

- REFER GAA EDCM STD DRG FIG 701 FOR PROPERTY INLET TYPE A DETAIL. INLET CONNECTION TO EASEMENT OR STREET DRAIN OUTSIDE PROPERTY TITLE
- REFER GAA EDCM STD DRG FIG 702 FOR PROPERTY INLET TYPE B DETAIL. INLET CONNECTION TO EASEMENT DRAIN CONTAINED WITHIN PROPERTY TITLE
- REFER GAA EDCM STD DRG FIG 703 FOR PROPERTY INLET TYPE C DETAIL. INLET CONNECTION TO DRAINAGE PIT WITHIN AND OUTSIDE PROPERTY TITLE



2	AS CONSTRUCTED	R.W.	05-08-21	
1	DRAINAGE ALIGNMENT UPDATED	M.T.S.	20-01-21	
0	ISSUED FOR CONSTRUCTION	M.T.S.	08-12-20	
C	AMENDED PIT 252, 264 & AFFECTED LEVELS. PIT 284 TO BE J.P. ADDED NOTES	M.T-S	24-09-20	
B	ISSUED TO COUNCIL	M.T-S	17-08-20	
A	ISSUED FOR TENDER	M.T-S	14-08-20	
Rev	Amendments	Approved	Date	

H 1:500  
SCALE @ A1



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Designed  
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Authorised  
**M.TOOMER-SMITH**



Checked  
**J.KOEHLER**  
Date  
14-08-20

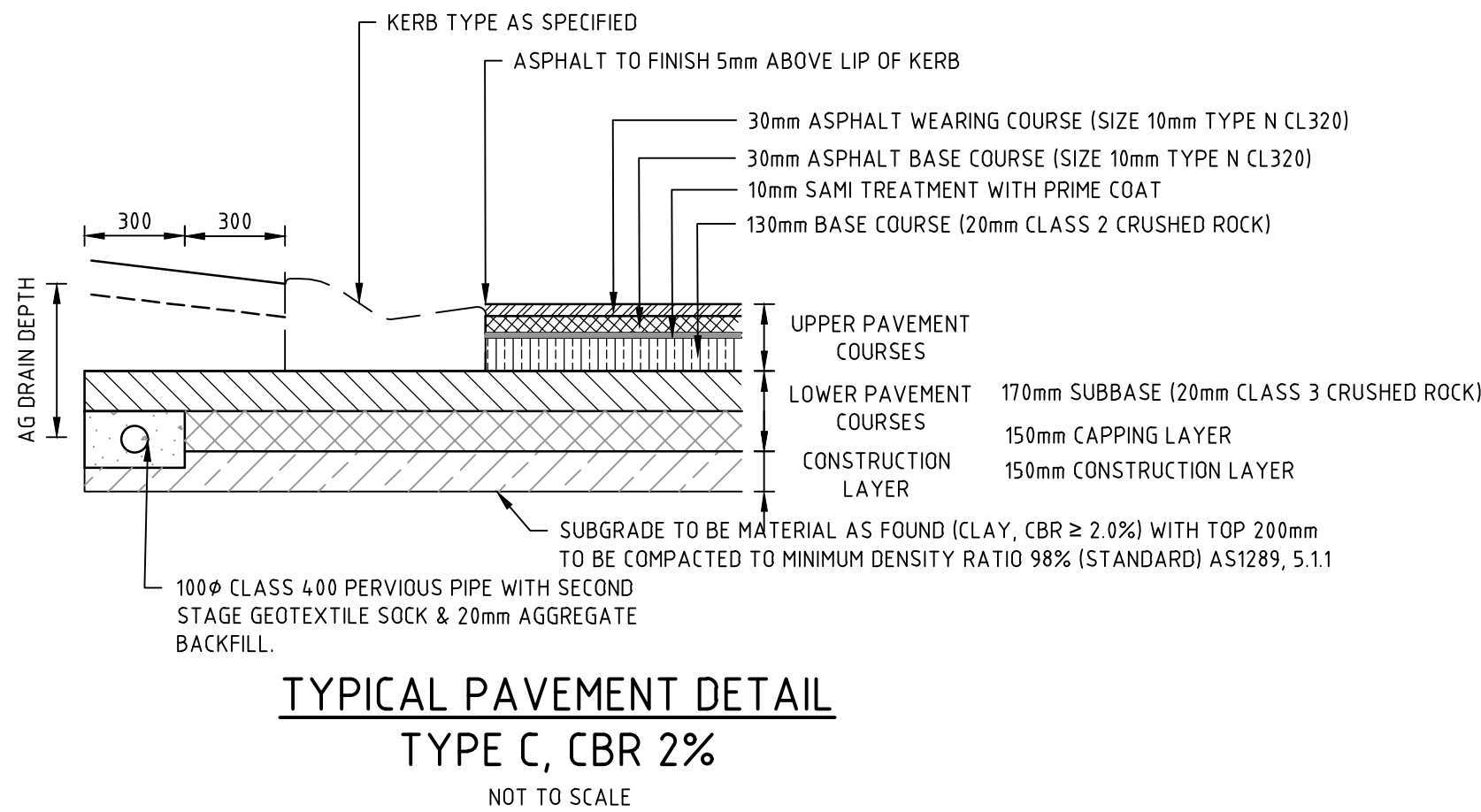
**TRIJENA**  
**STAGE 9**  
**ROAD DRAINAGE PLANS**  
**DRAINAGE PIT SCHEDULE**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR603** Rev **2**



PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)					
		A	B1	B2	C	D	F
ASPHALT WEARING COURSE	SIZE 7mm TYPE L (CL170 OR CL320)						
	SIZE 10mm TYPE N (CL320)				30	30	
	SIZE 14mm TYPE N (CL320)		40				
	SIZE 14mm TYPE H (CL320)	40		40			
CONCRETE WEARING COURSE	32MPa CONCRETE REINFORCED WITH SL82 MESH (MINIMUM 50mm COVER)						200
ASPHALT BASE COURSE	SIZE 20mm TYPE SI (CL320)	75		75			
	SIZE 20mm TYPE HP (CLA10E)		40				
	SIZE 10mm TYPE N (CL320)				30	30	
ASPHALT INTERLAYER	SIZE 20mm TYPE SI (CL320)			75			
	SIZE 20mm TYPE SF (CL320)	75					
	SAMI TREATMENT		10		10	10	
	PRIME COAT		Y		Y	Y	
BASE COURSE <sup>3</sup>	20mm CLASS 2 CRUSHED ROCK		110		130	130	
UPPER PAVEMENT TOTAL		190	190	190	190	190	200
UPPER BASE COURSE <sup>3</sup>	20mm CLASS 2 CRUSHED ROCK		100				100
SUBBASE <sup>2</sup>	20mm CLASS 3 CRUSHED ROCK	100		100	170	100	
LOWER SUBBASE <sup>2</sup>	20mm CLASS 4 CRUSHED ROCK		130				
CAPPING LAYER <sup>1</sup>	TYPE A SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 7%, SWELL ≤ 1.5%, PERMEABILITY ≤ 1x10 <sup>-9</sup> m/s, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289.5.1.1.	150	150	150	150	150	
CONSTRUCTION LAYER <sup>1</sup>	TYPE A FILL OR EQUIVALENT CBR≥7% - PERMEABILITY 5.0x10 <sup>-9</sup> M/SEC AND % SWELL ≤1.5% MAX	150	150	150	150	150	
TOTAL PAVEMENT DEPTH		590	720	590	660	590	300

- NOTES:
- SUBGRADE TO BE MATERIAL AS FOUND (CLAY, CBR ≥ 2.0%) WITH TOP 200mm TO BE COMPACTED TO MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1
- CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN AS PER EDCM DRAWING 202.
- \* ASPHALT BASE COURSE ALTERNATIVE PRODUCT OF EQUIVALENT THICKNESS AND SIZE BITUMEN CRUMB RUBBER ASPHALT WITH A PRIME OR 7mm SIZE PRIMERSEAL MAY BE USED WITH THE APPROVAL OF THE SUPERINTENDENT & COUNCIL
- <sup>1</sup> CAPPING & CONSTRUCTION LAYERS TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.1.1.
- <sup>2</sup> SUB-BASE (INCLUSIVE OF UPPER & LOWER) TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 97% (MODIFIED) AS1289,5.2.1
- <sup>3</sup> BASE TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289,5.2.1



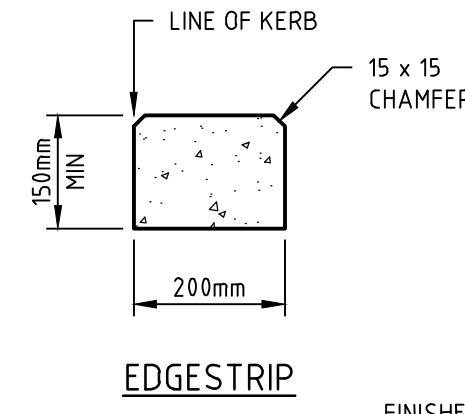
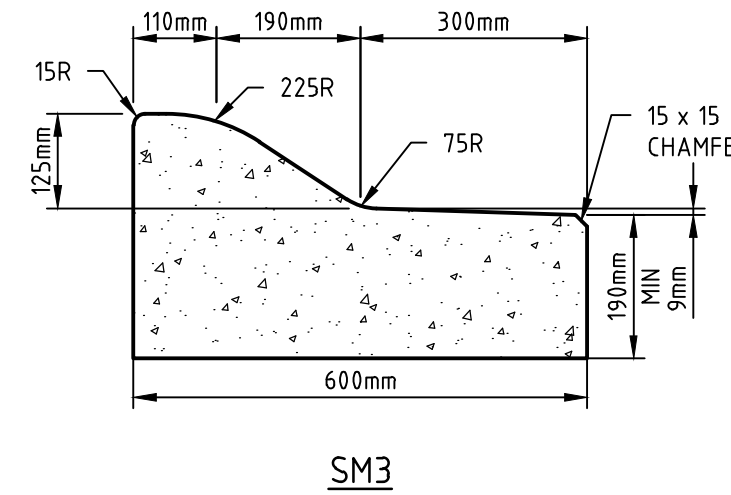
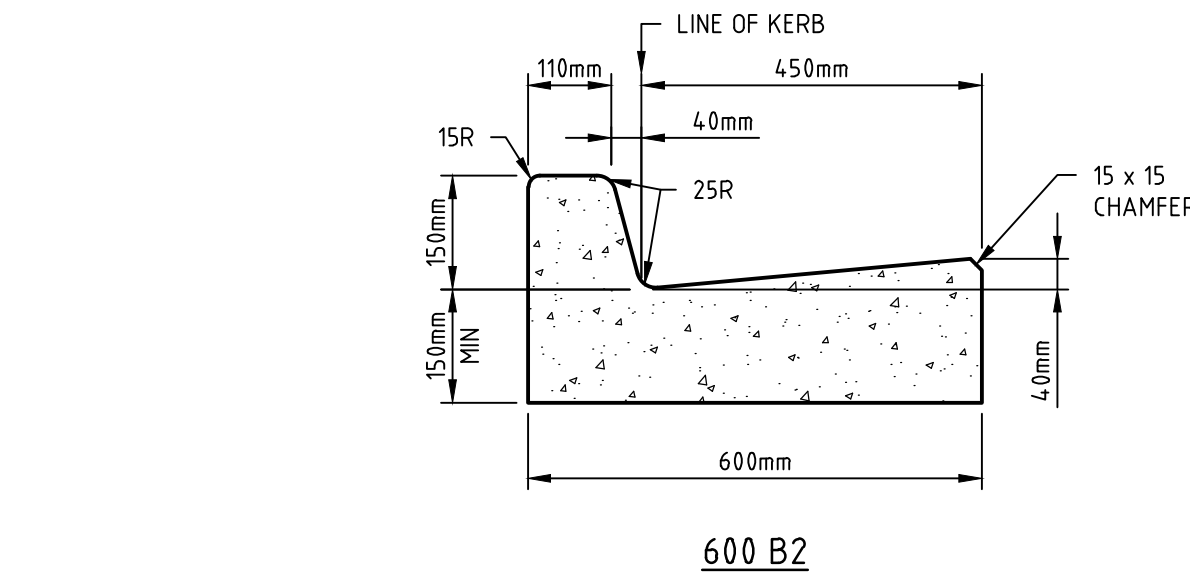
## PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY TONKIN + TAYLOR PTY. LTD. WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF TONKIN + TAYLOR PTY. LTD.

THE DESIGN HAS BEEN EXTRACTED FROM THE TONKIN + TAYLOR PTY. LTD. REPORT ON "PRELIMINARY GEOTECHNICAL, ENVIRONMENTAL AND HYDROGEOLOGICAL SITE INVESTIGATION (AUGUST 2020, REPORT 1000282.v03)" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

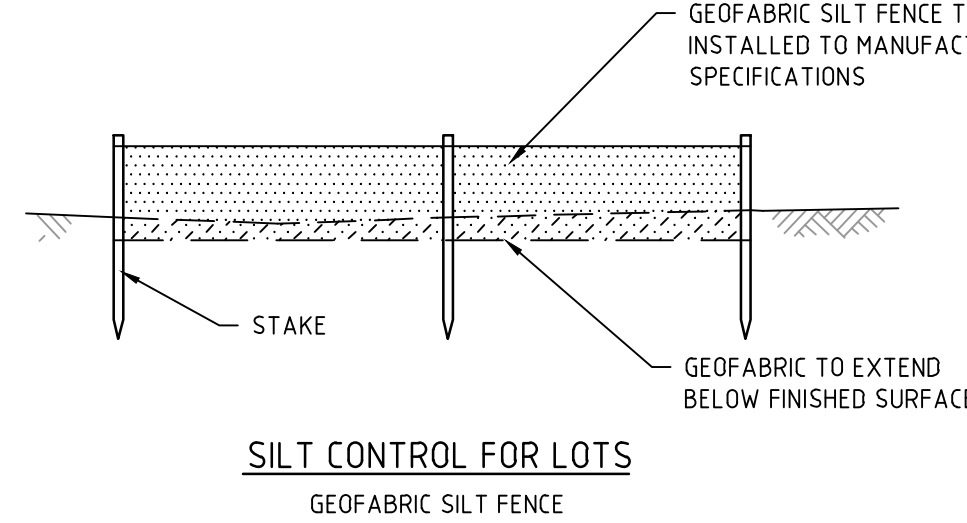
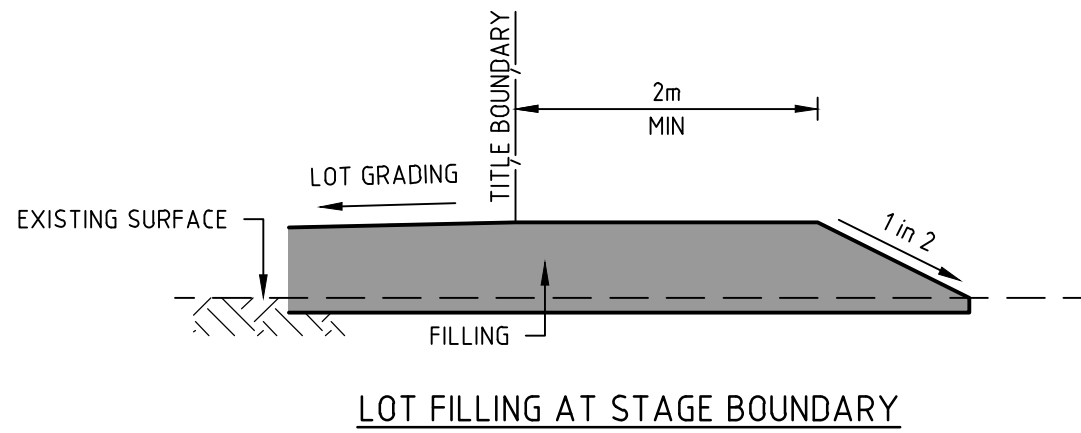
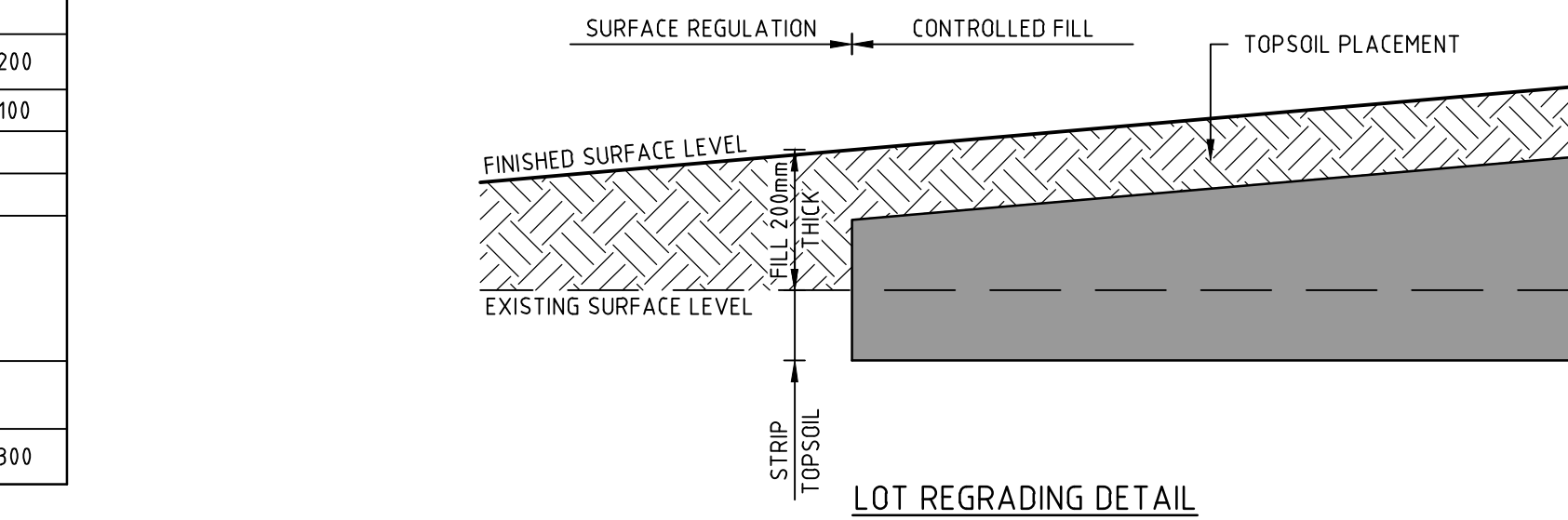
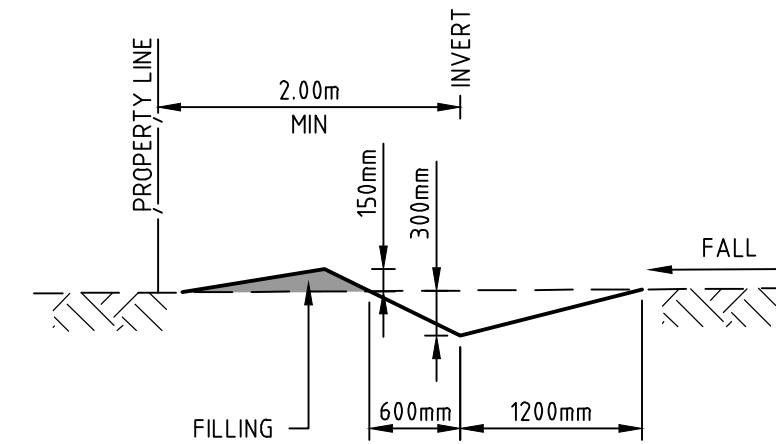
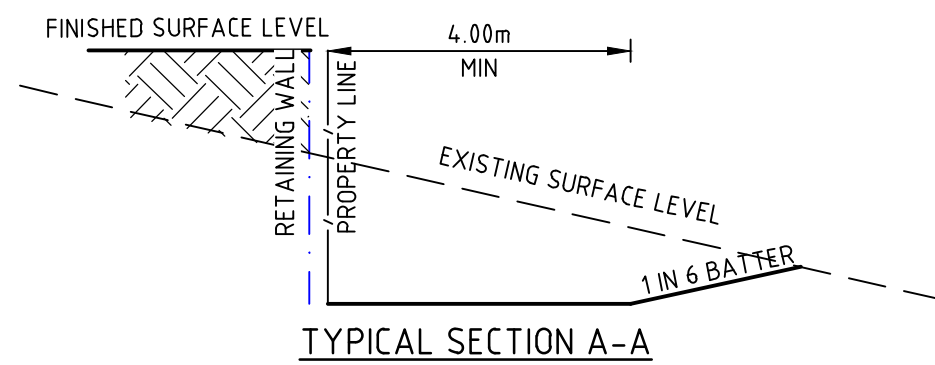
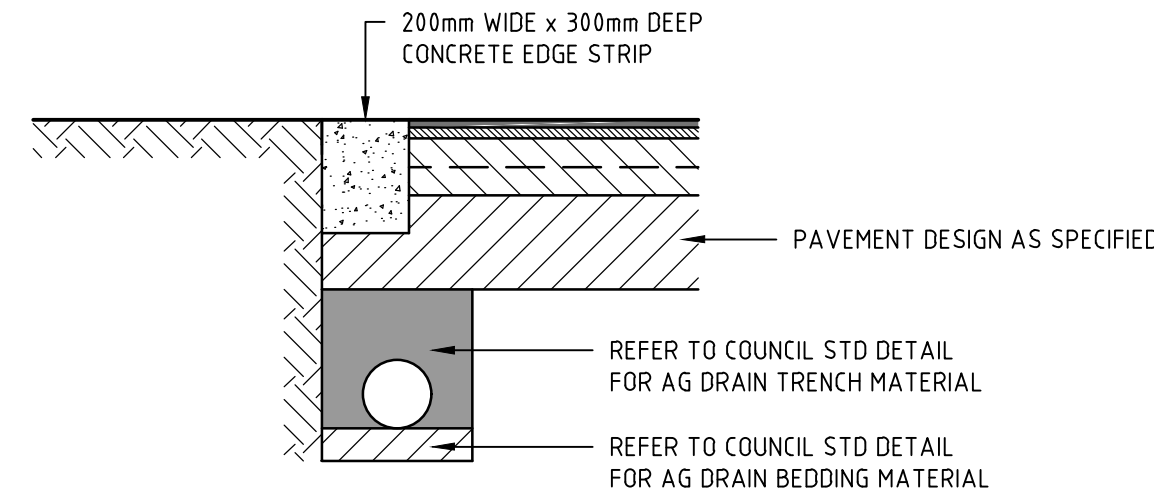
A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

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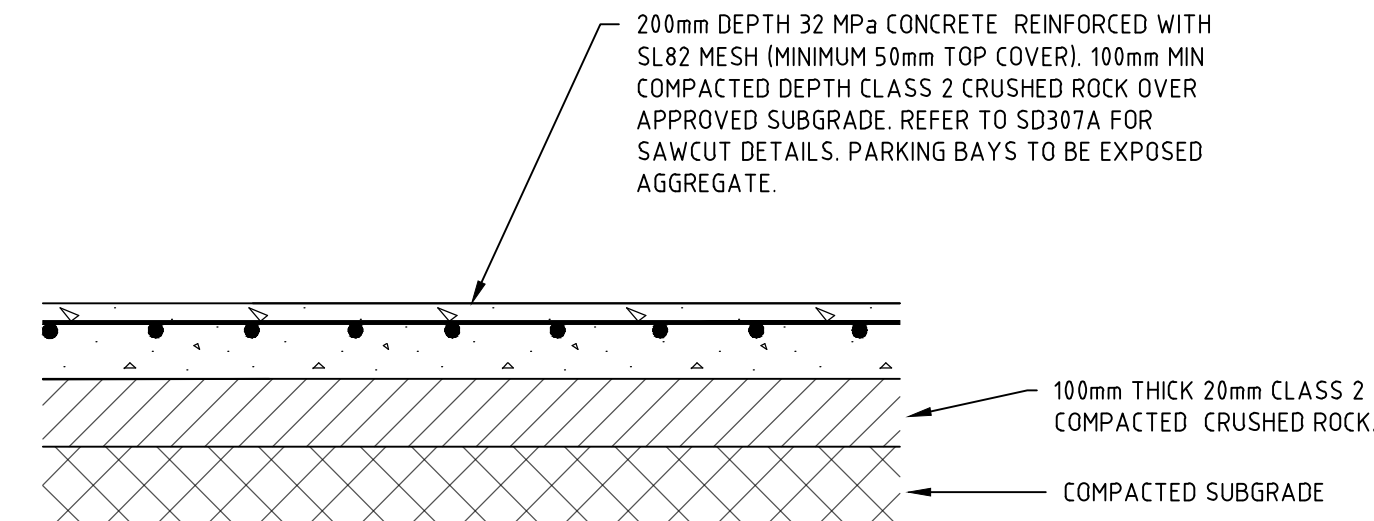
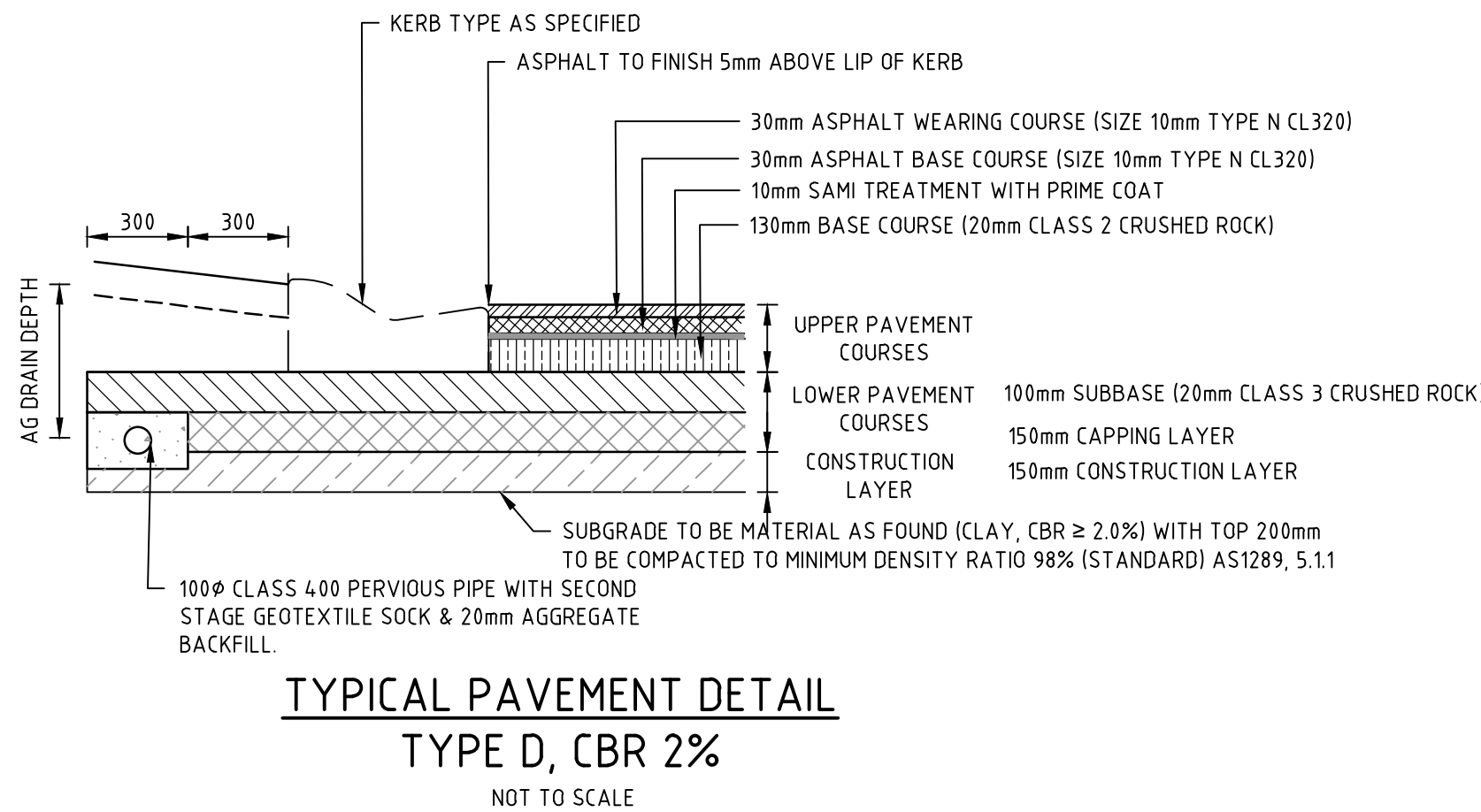


1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
2. ALL KERBS AND KERB & CHANNEL TO HAVE MINIMUM 150mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.
3. REFER TO EDCM 301 AND 302 FOR MORE DETAILS
4. THE 190mm FACE DIMENSION TO BE INCREASED TO 200mm WHERE A SAMI SEAL IS USED

## STANDARD KERB PROFILES



## STANDARD KERB PROFILES



ROAD NAME	STREET TYPE	PAVEMENT TYPE
MAWSON STREET (LOT 813-815)	ACCESS STREET LEVEL 1	C
MAWSON STREET (LOT 815-824)	ACCESS PLACE	D
POTTER CIRCUIT & TANGELO STREET	ACCESS PLACE	D
CONCRETE INFILL	CONCRETE LANEWAY	F

NOT TO SCALE



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Designed  
W.MAY  
Authorised  
M.TOOMER-SMITH



Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA  
STAGE 9  
ROAD & DRAINAGE  
STANDARD DETAILS**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No  
**304012CR700**

Rev  
**1**



POTTER CIRCUIT

HEAVY DUTY VEHICLE CROSSING TO BE CONSTRUCTED AS PART OF WORKS (REFER TO EDCM 503)

WIDEN VEHICLE CROSSING ACCESS TO 5m AT REAR OF FOOTPATH LINE TO ALLOW 2 VEHICLES TO PASS

REFER KERB RETURN DETAIL (TYP)

1320mm

REFER KERB RETURN DETAIL (TYP)

200mm DEPTH 32 MPa CONCRETE ENDEAVOUR COLOUR (HANSON) REINFORCED WITH SL82 MESH (MINIMUM 50mm TOP COVER). 100mm MIN COMPACTED DEPTH CLASS 2 CRUSHED ROCK OVER APPROVED SUBGRADE. EXTENDED DRIVEWAY AND PARKING BAY TO BE SAME COLOUR.

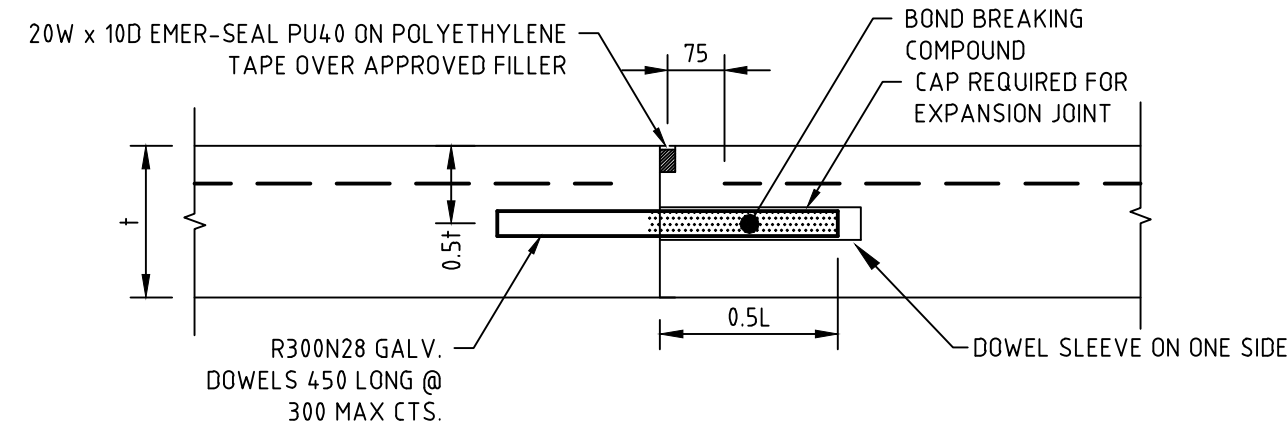
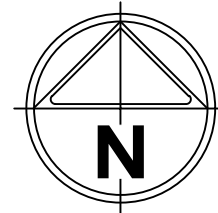
943

OFFSTREET PARKING BAYS TO BE CONSTRUCTED AS PART OF WORKS. PARKING BAY TO BE EXPOSED AGGREGATE.

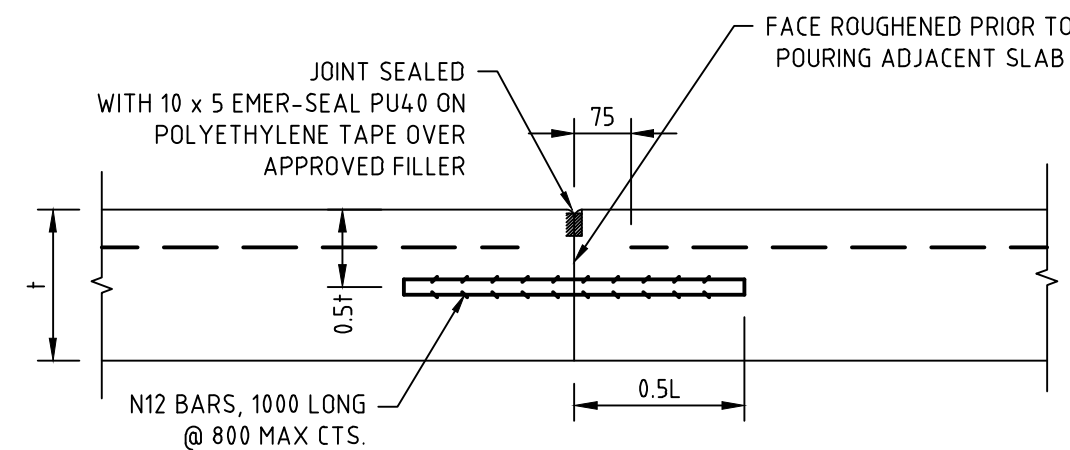
PAVEMENT PLAN

940

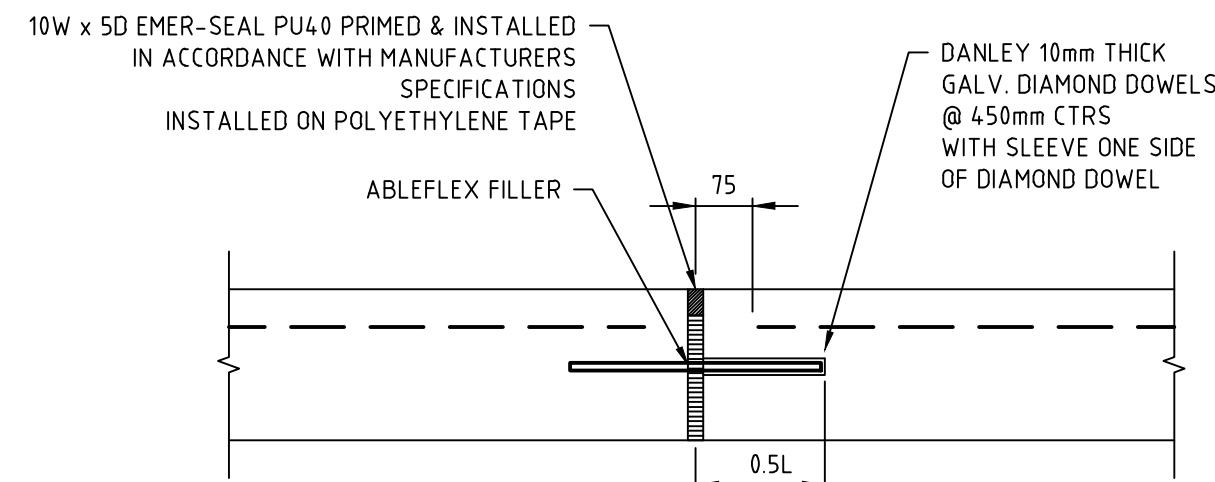
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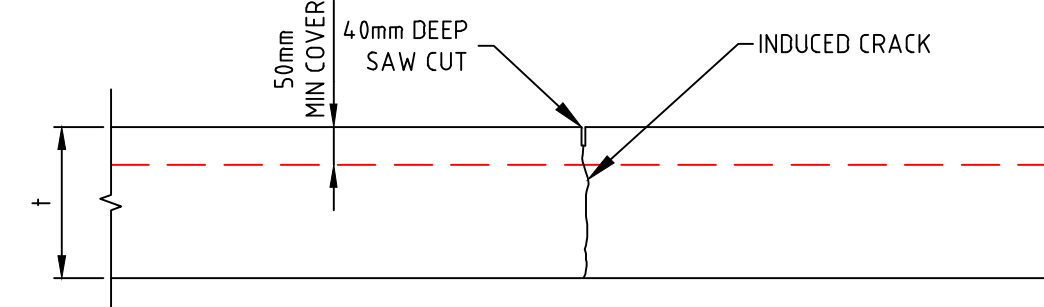
TRANSVERSE JOINT (TJ)



LONGITUDINAL JOINT (LJ)



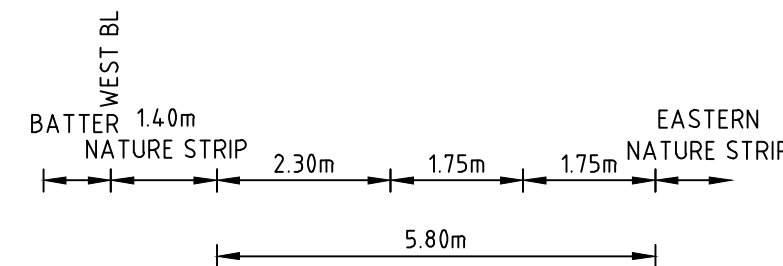
DIAMOND DOWEL JOINT (DD)



SAW CUT JOINT (SJ)

GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE SEALED AS SHOWN TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.
- FOOTPATH CONSTRUCTION DETAILS IN ACCORDANCE WITH EDCM STANDARD DRAWING 401.
- RESIDENTIAL DRIVEWAYS CONSTRUCTION DETAILS IN ACCORDANCE WITH EDCM STANDARD DRAWINGS 501-502
- ALL PIT/ACCESS HOLE JOINT DETAILS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM STANDARD DRAWING EDCM4.02
- ALL JOINTS ARE TO EXTEND THROUGH KERBS



DATUM RL 262.0

DESIGN SURFACE LEVEL	264.992	265.141	264.945	264.898	264.864	264.886	264.909
EXISTING SURFACE LEVEL	264.221	264.193	264.154	264.092	264.039	263.986	263.956
OFFSET	-6.344	-5.450	-4.050	-1.750	0.000	1.750	2.765

EXTENDED DRIVEWAY

SECTION A

file name: 304012CR701.dwg, layout: title, cadd: CD001, plotted by: Kieren Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 15:12 PM, Sheet 21 of 31 Sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED NOTES, DIMENSION & CROSS SECTION	M.T-S.	24-09-20
B	ISSUED TO COUNCIL	M.T-S.	17-08-20
A	ISSUED FOR TENDER	M.T-S.	14-08-20

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Designed  
**W.MAY**  
Authorised  
**M.TOOMER-SMITH**



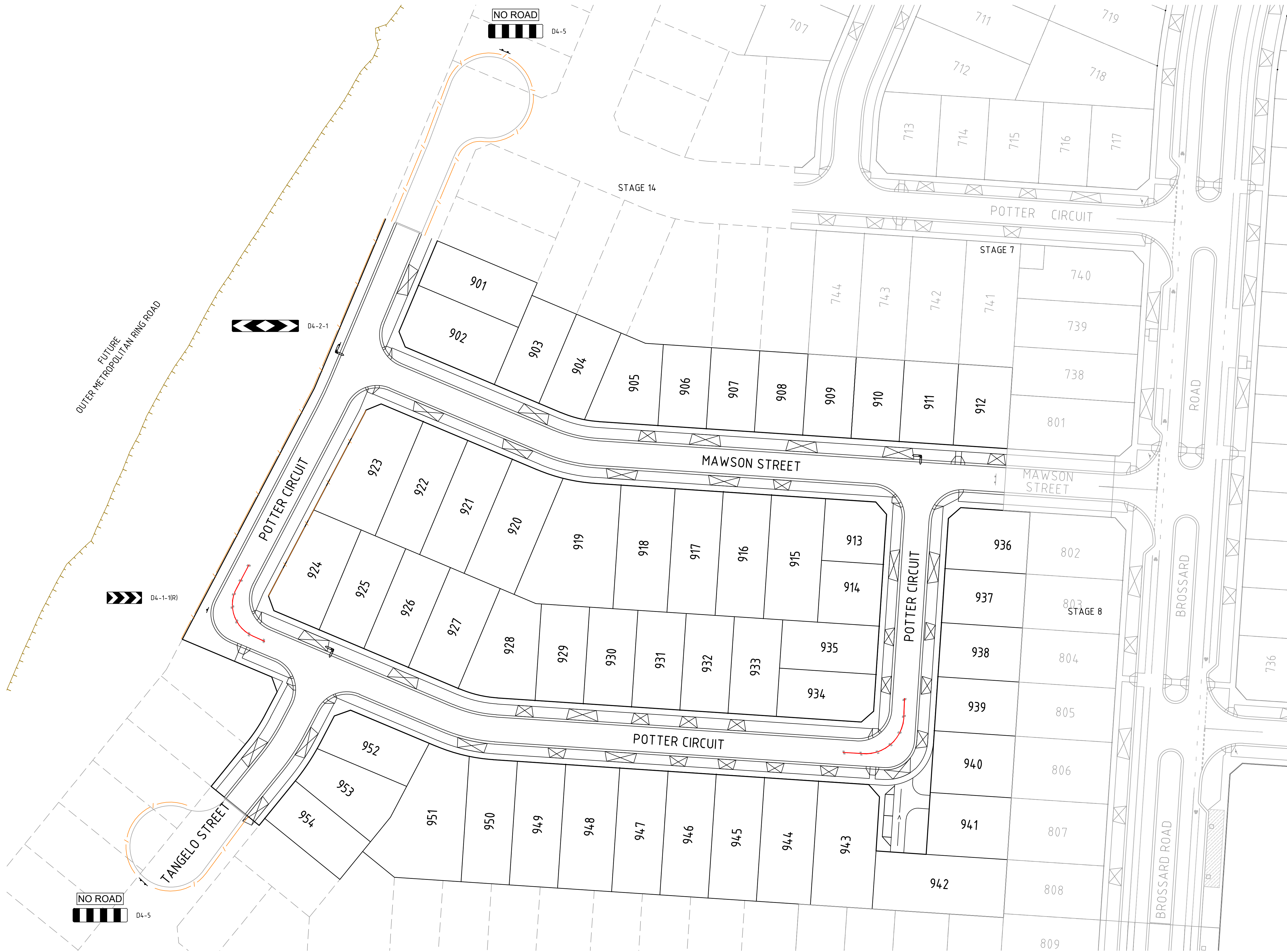
Checked  
**J.KOEHLER**  
Date  
**14-08-20**

**TRIJENA**  
**STAGE 9**  
**ROAD & DRAINAGE**  
**EXTENDED DRIVEWAY DETAIL**  
**HUME CITY COUNCIL**  
**PGG (MICKLEHAM) PTY LTD**

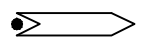
**AS CONSTRUCTED** Drg No **304012CR701** Rev **1**



file name: 304012CR800.dwg layout: csmr CD800 - created by: Kieran Ayres  
file location: G:\304012\304012.dwg plot date: 05/08/2021 3:12 PM Sheet 22 of 31 Sheets



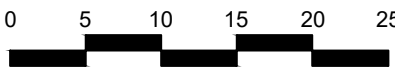
SIGNAGE SCHEDULE

#1	 STREET NAME
----	--

NOTE: STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	AMENDED CROSSOVER & T.T.A.A. ADDED FENCES	M.T-S	24-08-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date

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SCALE @ A1



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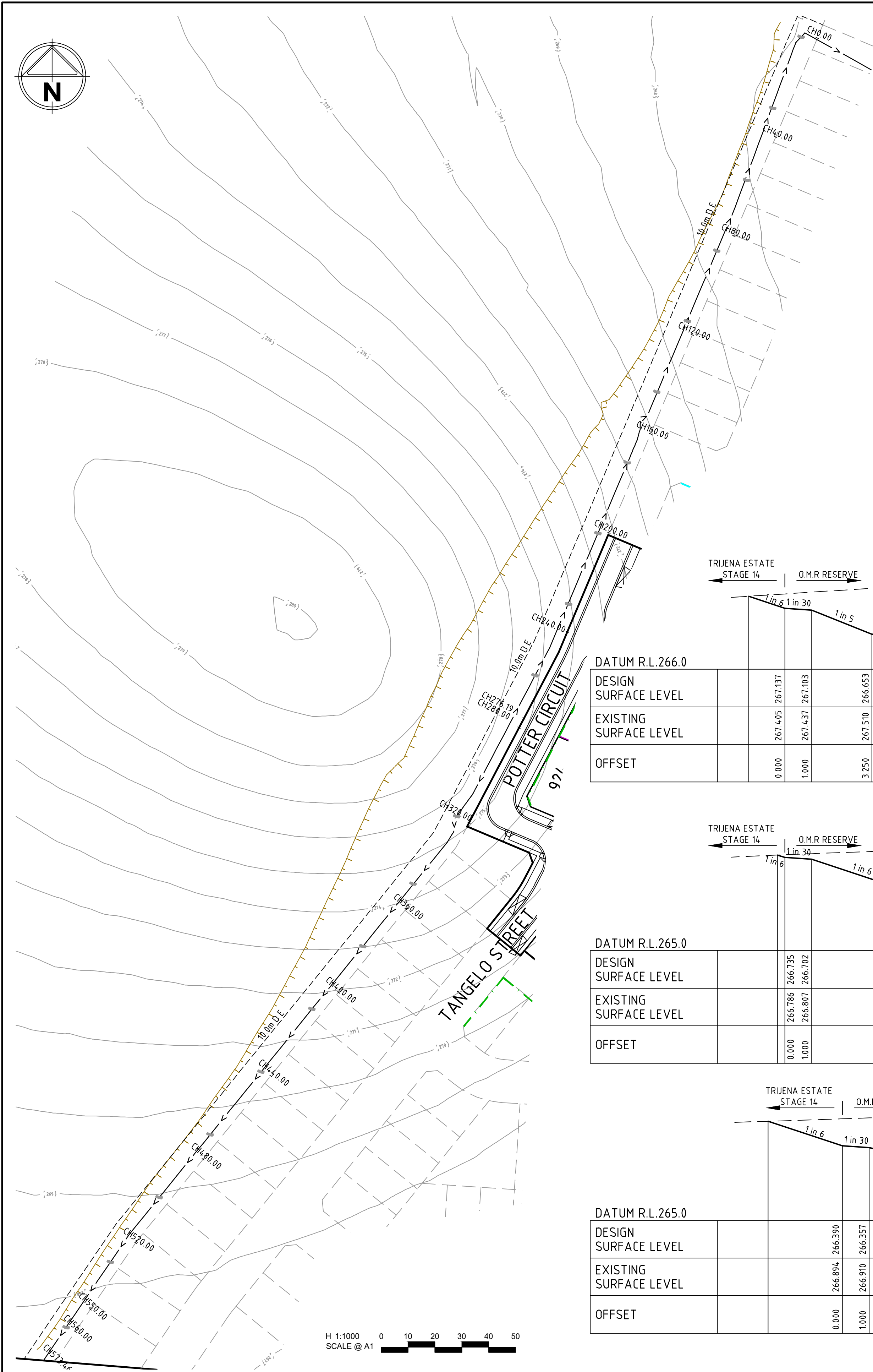
Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
**STAGE 9**  
**ROAD & DRAINAGE**  
**SIGNAGE & LINEMARKING PLAN**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR800** Rev **1**



file name: 304012CR900.dwg, layout name: CR900, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 15:12 PM, Sheet 23 of 31 Sheets



THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL RECOMMENDATIONS STATED IN THE SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.

**NOTES:**

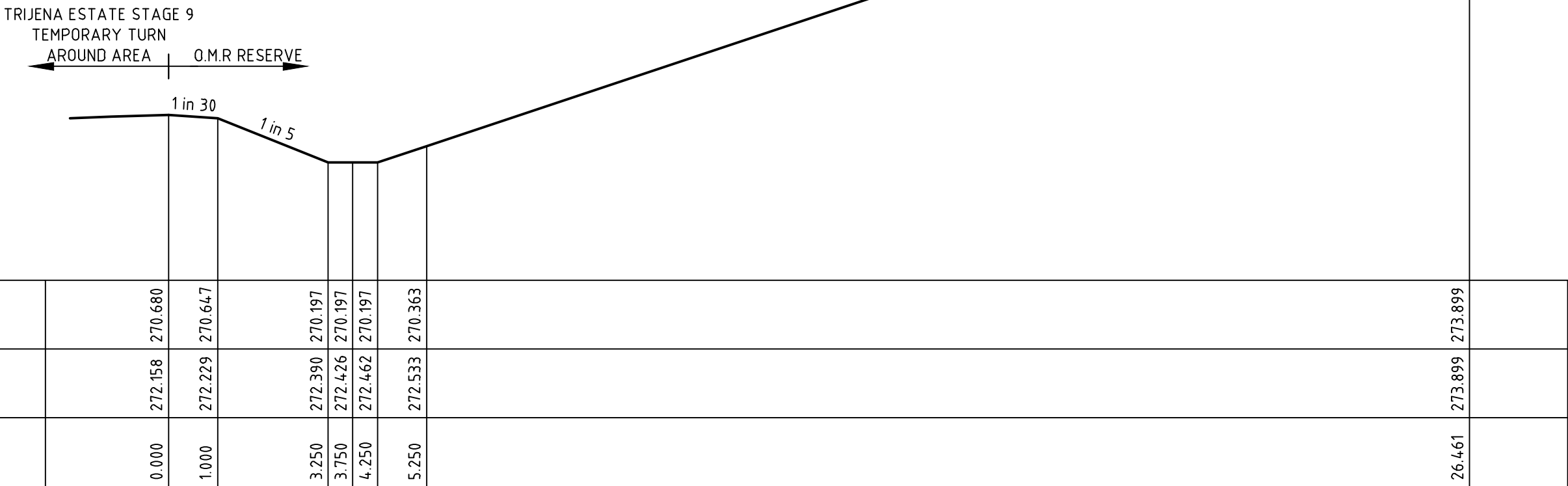
- STOCKPILED SOILS SHOULD HAVE GYPSUM APPLIED IN Kg/m<sup>3</sup> FROM THE TABLE BELOW
- WHERE POTENTIALLY DISPERSIVE SOILS HAVE BEEN EXPOSED BUT NOT EXCAVATED (E.G. SOIL REMAINING POST-STRIPPING), THE RATE OF GYPSUM APPLIED SHOULD BE IN g/m<sup>2</sup> FROM THE TABLE BELOW

GYPSUM APPLICATION RATE UNITS DIFFER IN THE TABLE BELOW

ZONE	SOIL DEPTH	GYPSUM APPLICATION RATE	
		Kg/m <sup>3</sup>	g/m <sup>2</sup>
1	0-20cm	3.3	330
	20-50cm	11	1,100
	50-100cm	9	900
	100-150cm	5	500
	150-200cm	3.5	350
2	0-20cm	2.2	225
	20-50cm	9.5	950
	50-100cm	11	1,100
	100-150cm	11	1,100
	150-200cm	10	1,000

**HYDROSEEDING NOTE**

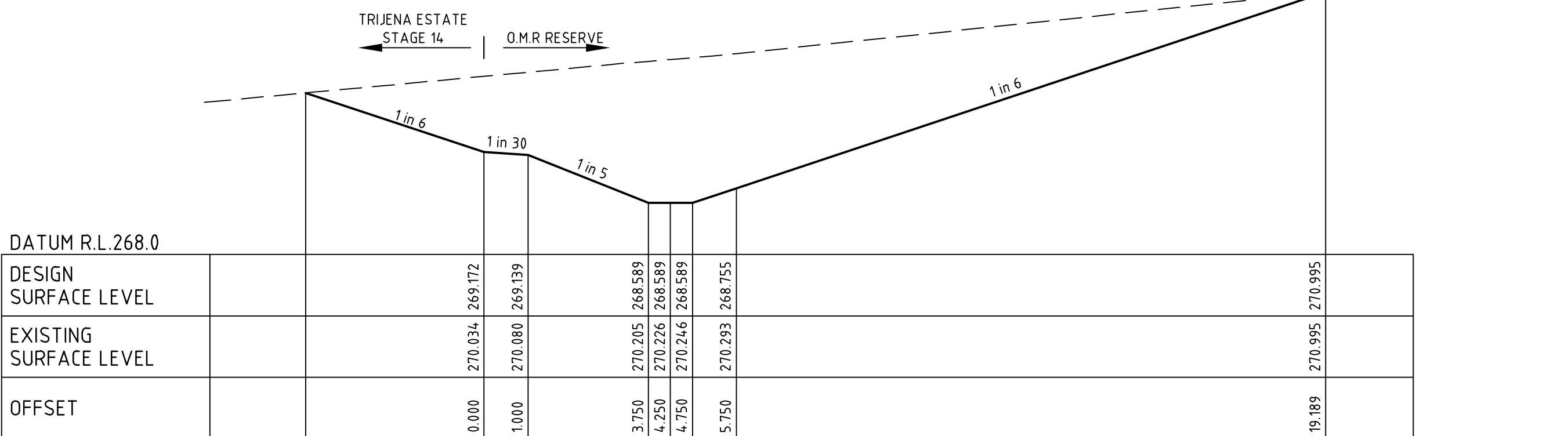
ALL DISTURBED AREAS IN THE OUTER METROPOLITAN RING ROAD AREA ARE TO BE HYDROSEED AS PER HCC REQUIREMENTS.



DATUM R.L. 269.0

DESIGN SURFACE LEVEL			270.680							273.899
EXISTING SURFACE LEVEL		272.058	270.647		272.390	270.197	272.426	270.197		273.899
OFFSET	0.000	1.000		3.250	3.750	4.250	5.250			26.461

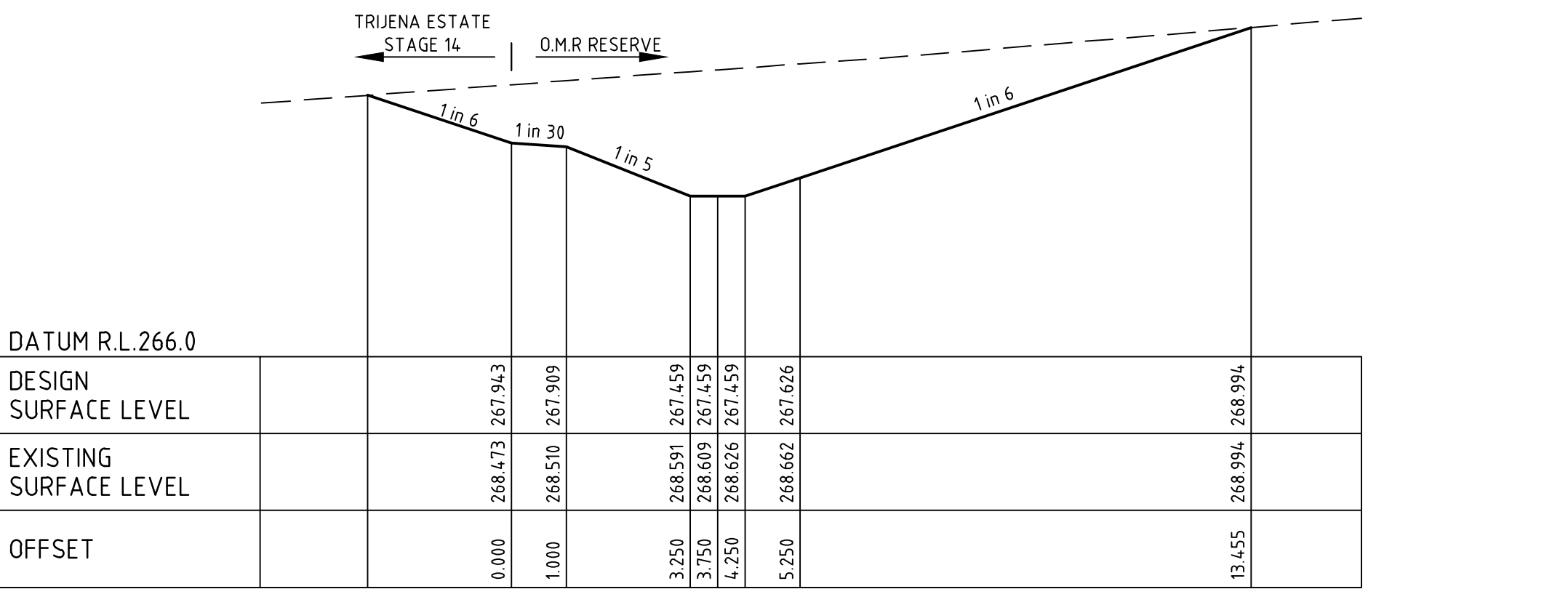
CH 200.00



DATUM R.L. 268.0

DESIGN SURFACE LEVEL			269.172		268.589	268.589	268.589			270.995
EXISTING SURFACE LEVEL		270.034	269.139		270.205	268.589	270.226	268.589		270.995
OFFSET		0.000	1.000	3.750	4.250	4.750	5.750		19.189	

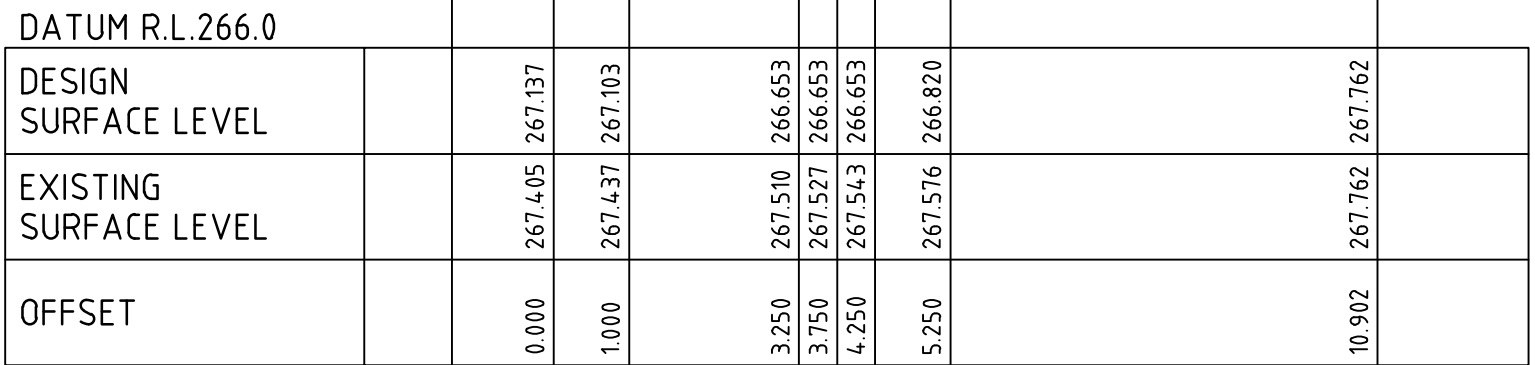
CH 160.00



DATUM R.L. 266.0

DESIGN SURFACE LEVEL			267.943		267.459	267.459	267.459			268.994
EXISTING SURFACE LEVEL		268.473	267.909		268.591	267.459	268.609	267.459		268.994
OFFSET		0.000	1.000	3.250	3.750	4.250	5.250		13.455	

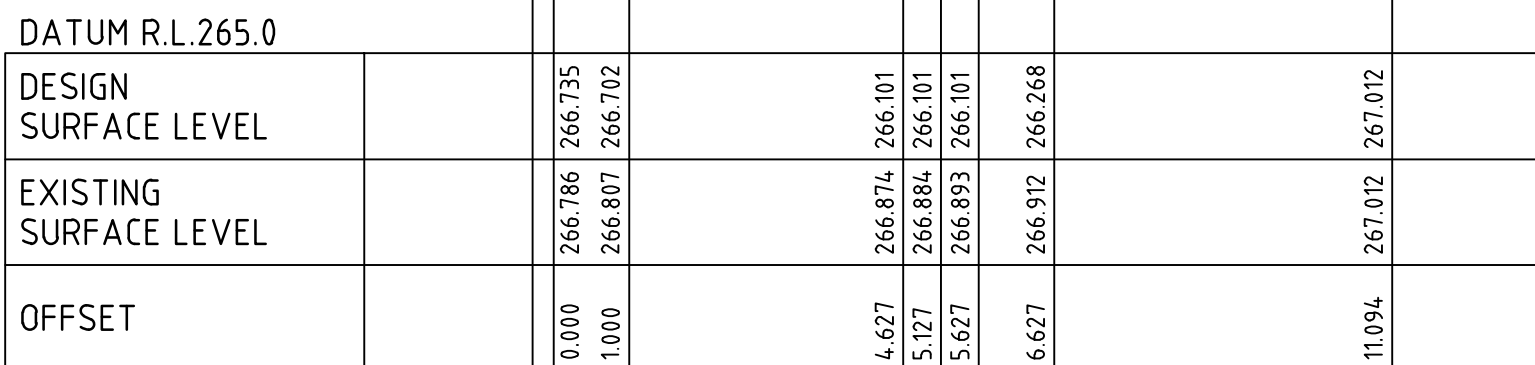
CH 120.00



DATUM R.L. 266.0

DESIGN SURFACE LEVEL			267.137		266.653	266.653	266.653			267.762
EXISTING SURFACE LEVEL		267.405	267.103		267.510	266.653	267.527	266.653		267.762
OFFSET		0.000	1.000	3.250	3.750	4.250	5.250		10.902	

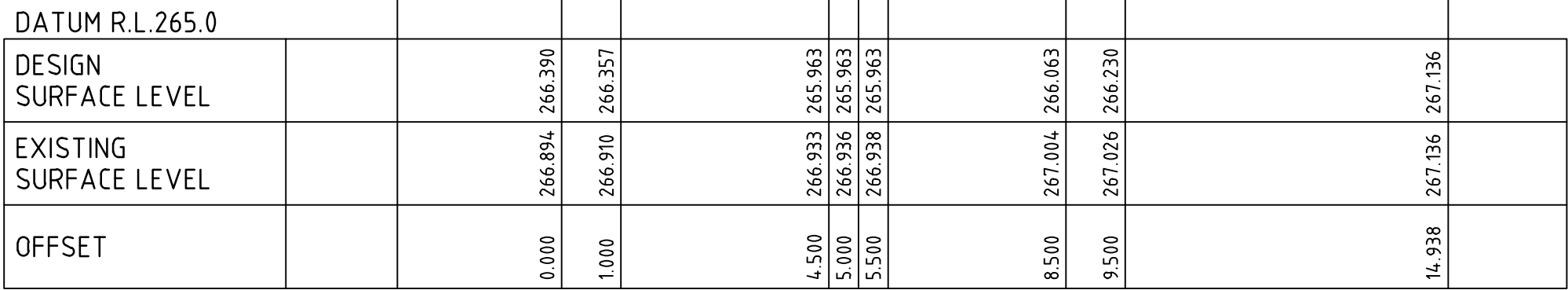
CH 80.00



DATUM R.L. 265.0

DESIGN SURFACE LEVEL			266.735		266.101	266.101	266.101			267.012
EXISTING SURFACE LEVEL		266.786	266.702		266.874	266.101	266.884	266.101		267.012
OFFSET		0.000	1.000	4.627	5.127	5.627	6.627		11.094	

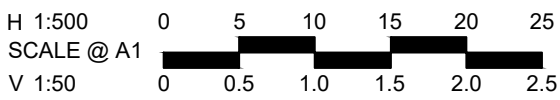
CH 40.00



DATUM R.L. 265.0

DESIGN SURFACE LEVEL			266.990		266.357	266.357	266.357			267.196
EXISTING SURFACE LEVEL		266.894	266.357		266.933	265.963	266.938	265.963		267.196
OFFSET		0.000	1.000	4.500	5.000	5.500	8.500	9.500	14.938	

CH 0.00



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SCALE @ A1  
V 1:50



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Authorised  
**M.TOOMER-SMITH**



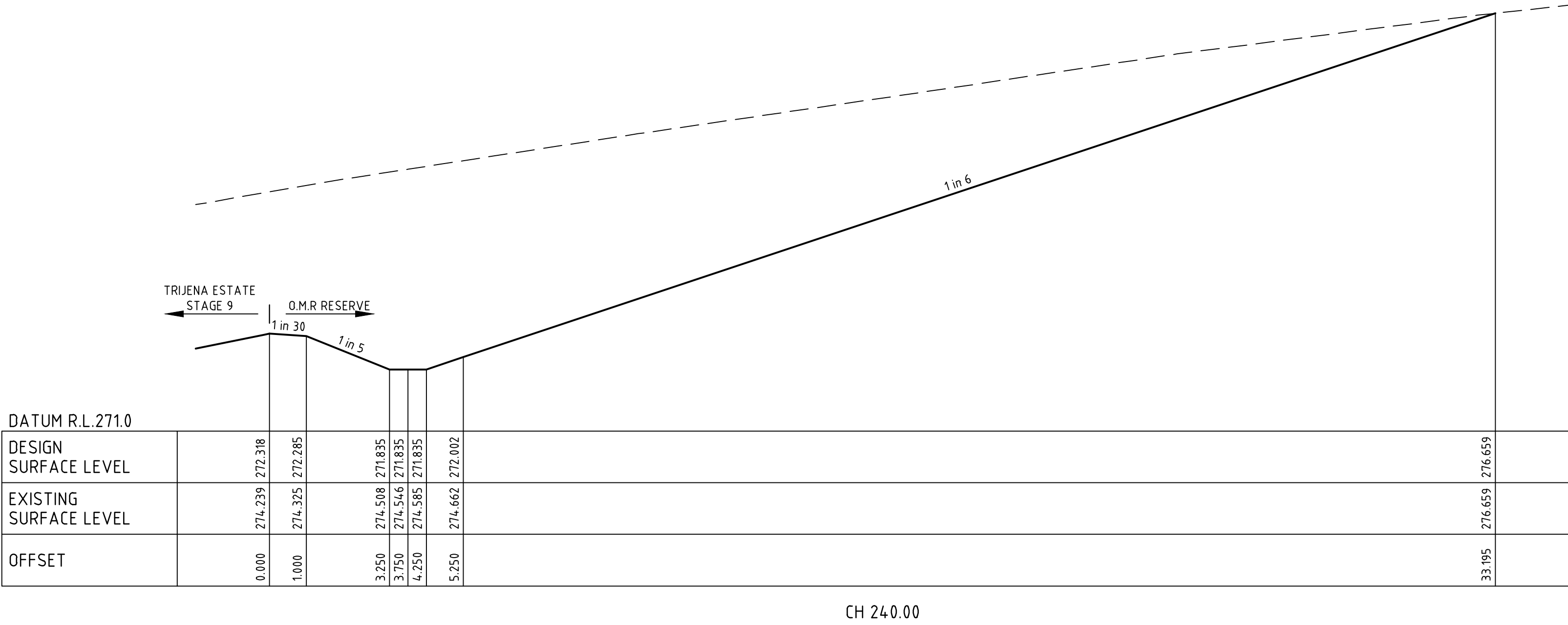
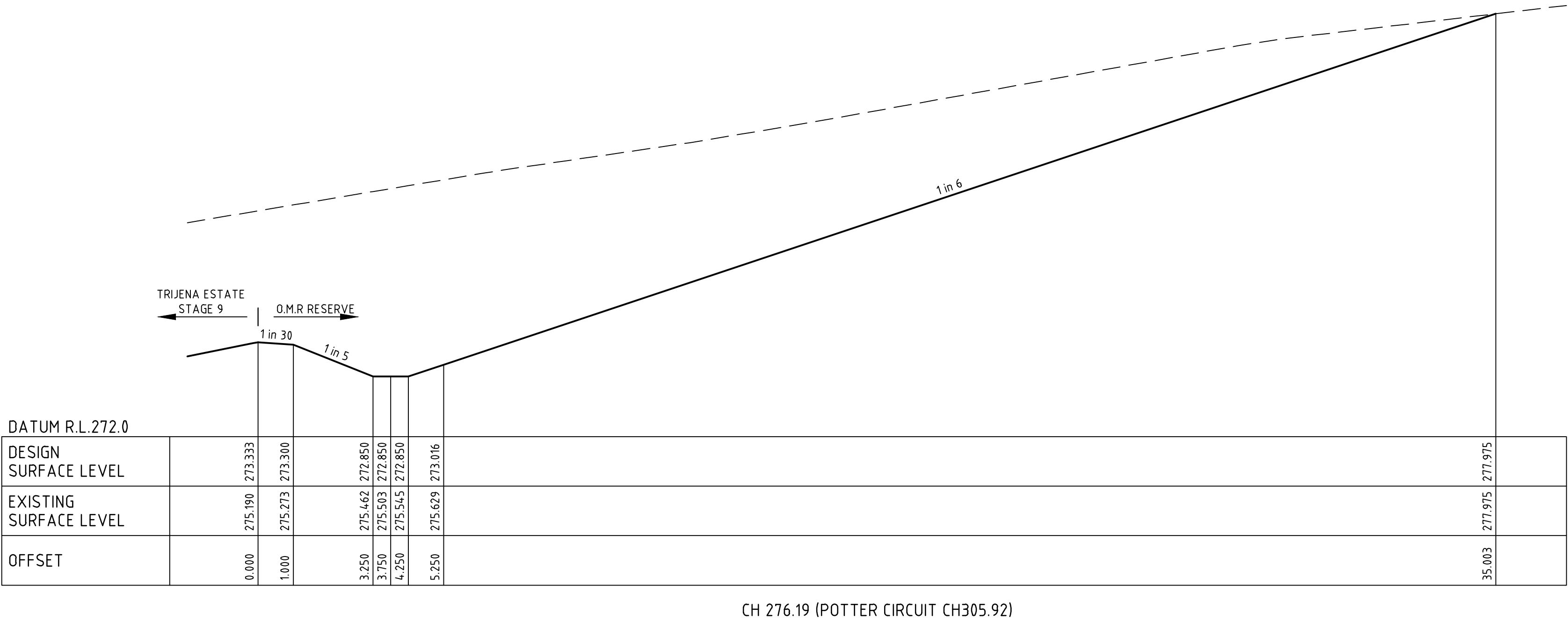
Checked  
**J.KOEHLER**  
Date  
**14-08-20**

**TRIJENA**  
**STAGE 9**  
**OVERHEAD DRAIN DETAILS**  
**SWEEP OPEN DRAIN DETAILS**  
**HUME CITY COUNCIL**  
**PGG (MICKLEHAM) PTY LTD**

**AS CONSTRUCTED** Drg No **304012CR900** Rev **1**



HYDROSEEDING NOTE  
ALL DISTURBED AREAS IN THE OUTER METROPOLITAN RING ROAD  
AREA ARE TO BE HYDROSEEDED AS PER HCC REQUIREMENTS.



file name: 304012CR901.dwg, layout name: CR901, plotted by: Kieren Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 5:17 PM, Sheet 24 of 31 Sheets

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED CHAINAGE 276.19 CROSS SECTION	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date

H 1:500  
SCALE @ A1  
V 1:50

0 5 10 15 20 25  
0 0.5 1.0 1.5 2.0 2.5



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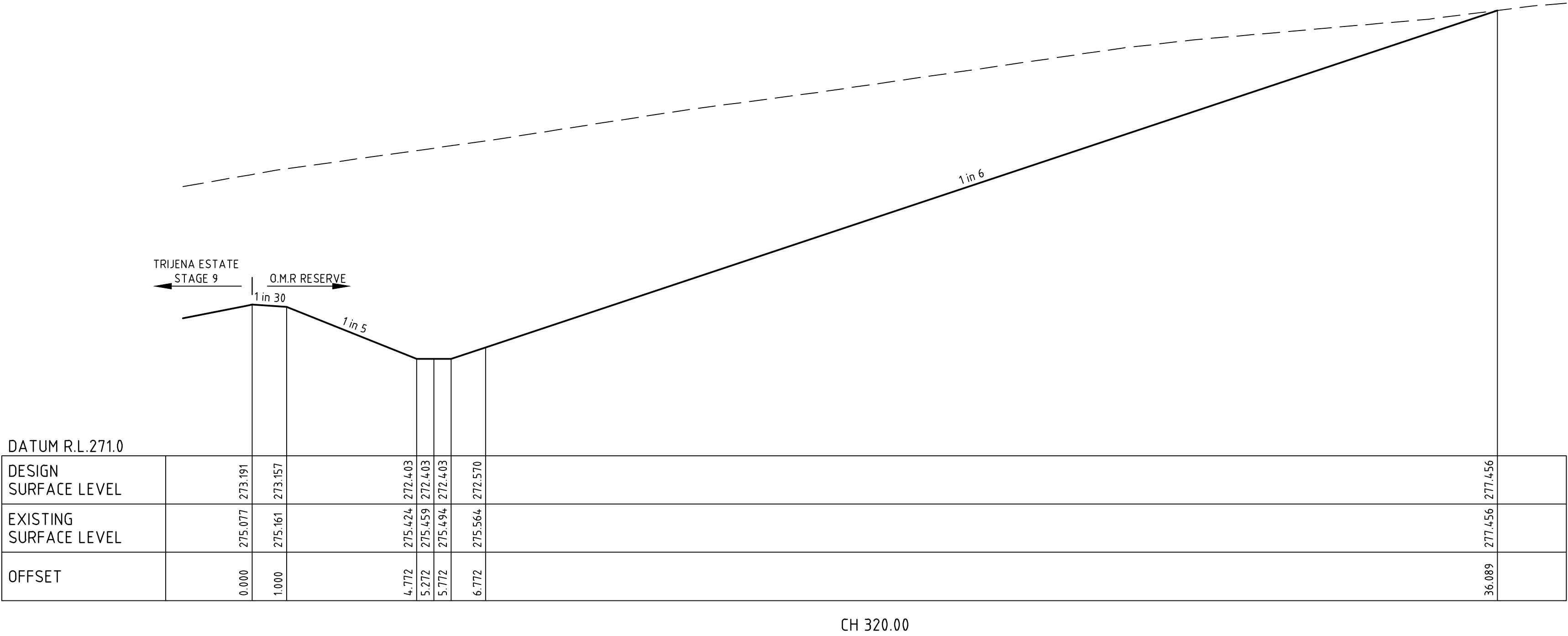
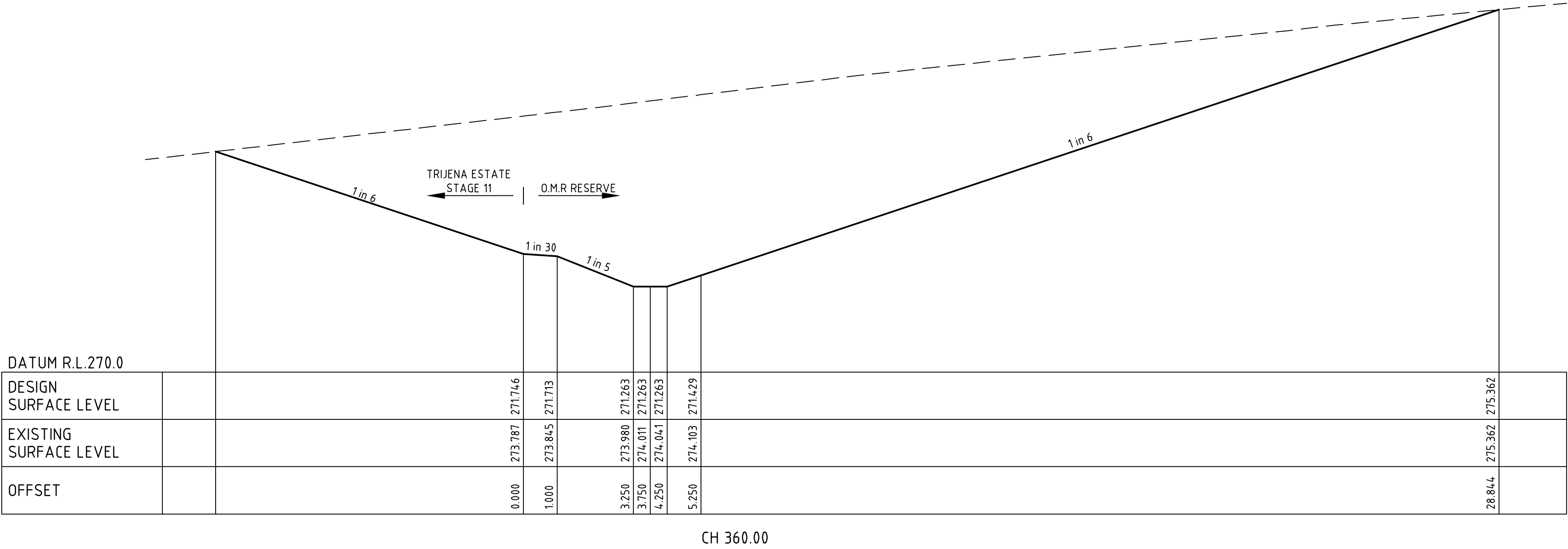
Checked  
**J.KOEHLER**  
  
Date  
**14-08-20**

**TRIJENA**  
**STAGE 9**  
**OVERHEAD DRAIN DETAILS**  
**SWEEP OPEN DRAIN DETAILS**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR901** Rev **1**



HYDROSEEDING NOTE  
ALL DISTURBED AREAS IN THE OUTER METROPOLITAN RING ROAD  
AREA ARE TO BE HYDROSEED AS PER HCC REQUIREMENTS.



file name: 304012CR902.dwg, layout name: CR902, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 3:17 PM, Sheet 25 of 31 Sheets

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED NOTES, AMENDED BATTER TO EXISTING	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date

H 1:500  
SCALE @ A1  
V 1:50

0 5 10 15 20 25  
0 0.5 1.0 1.5 2.0 2.5



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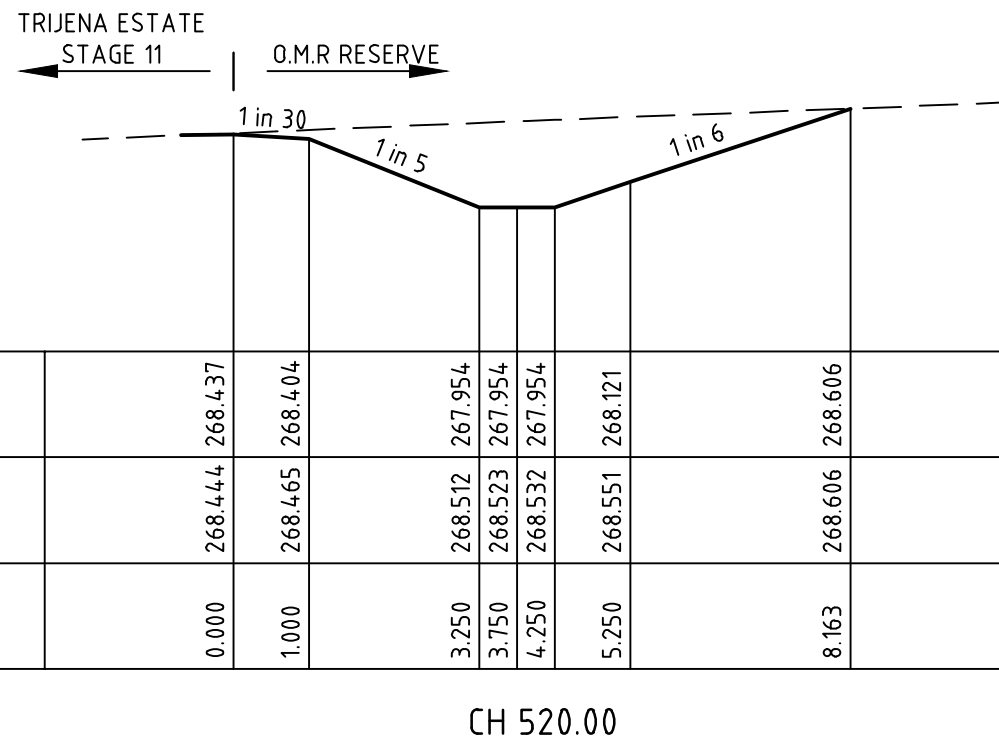
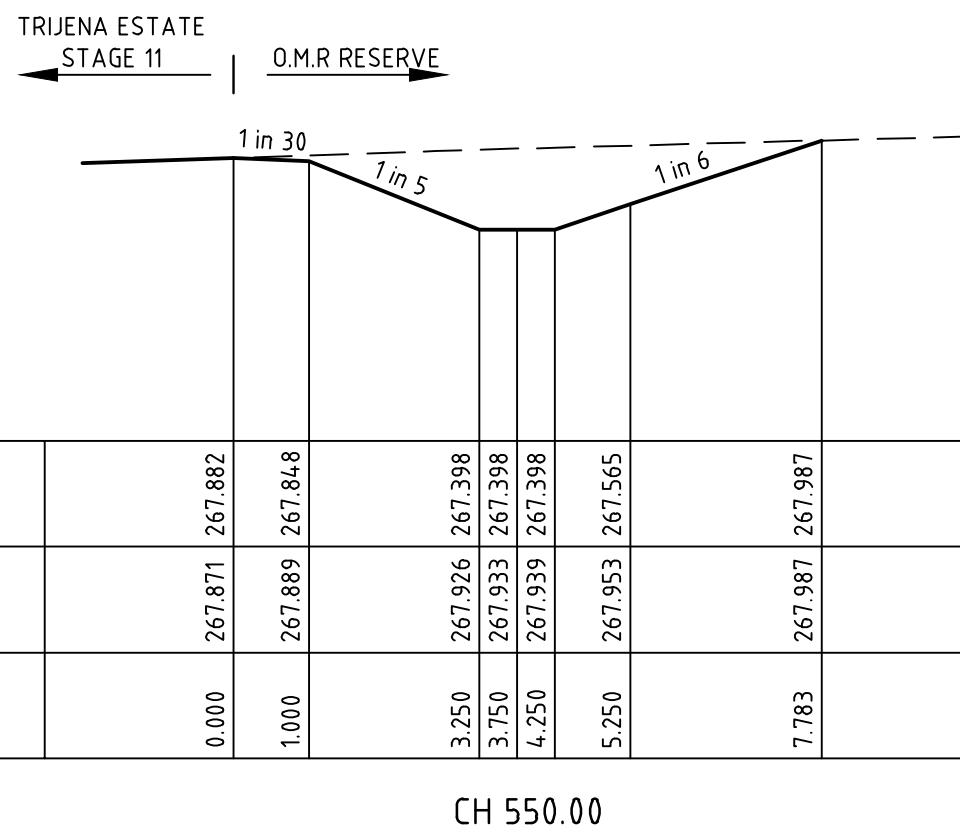
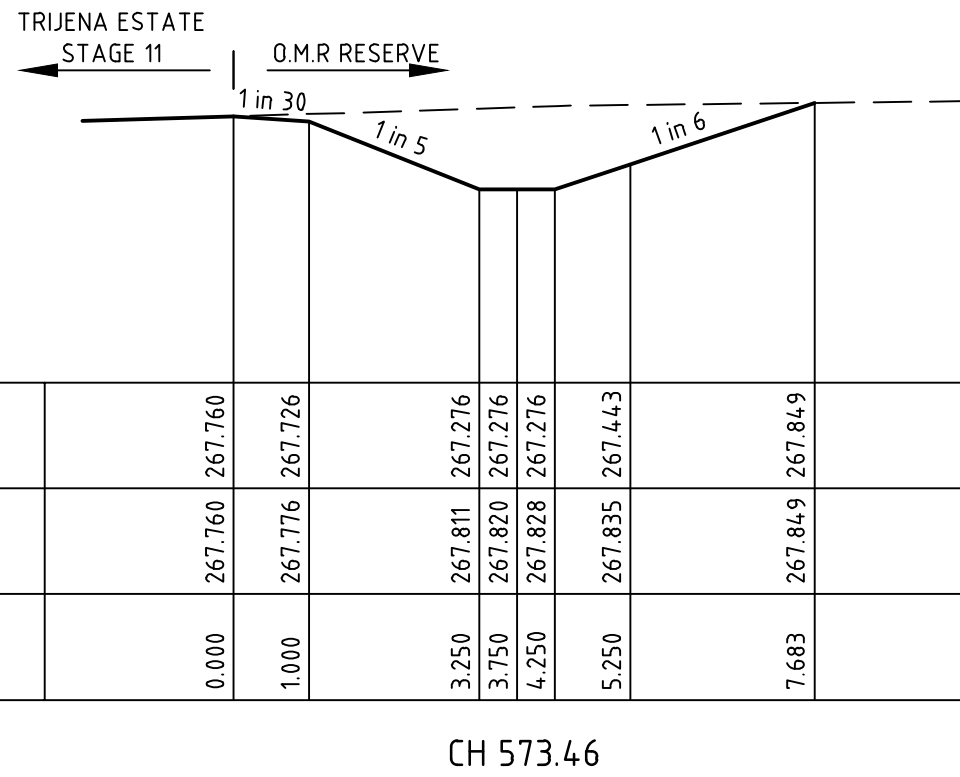
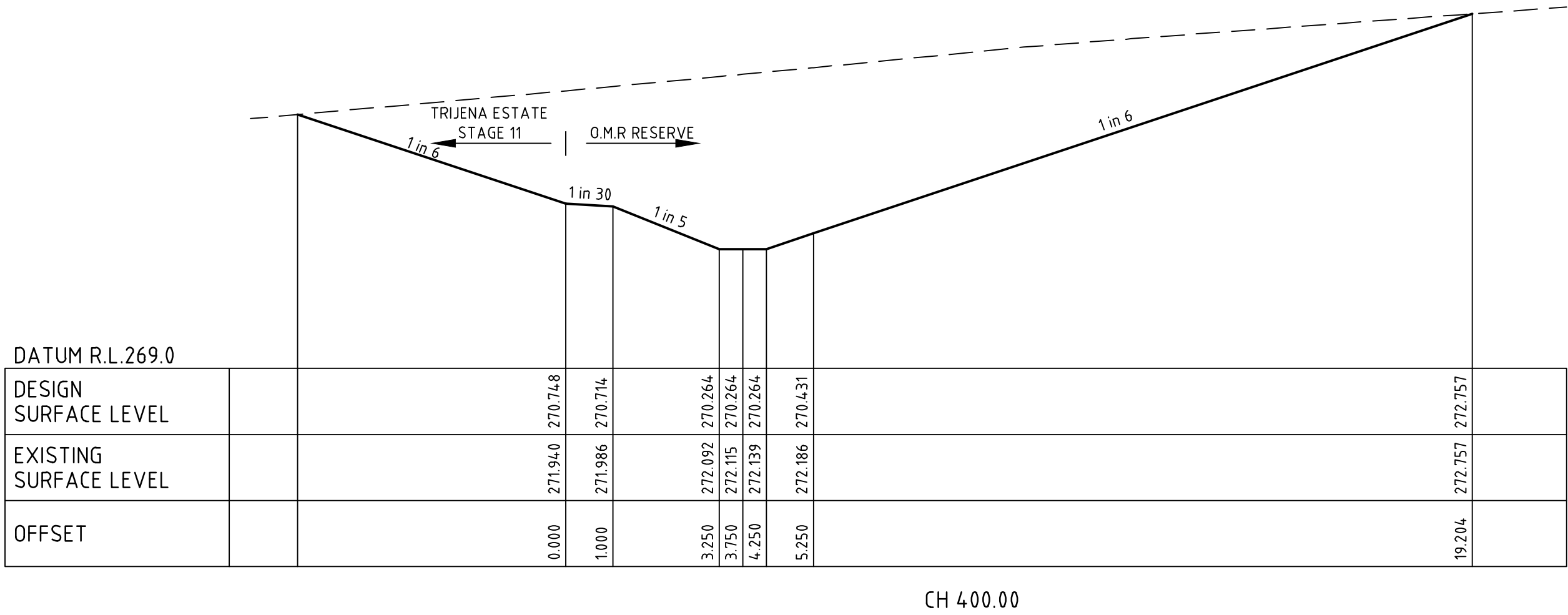
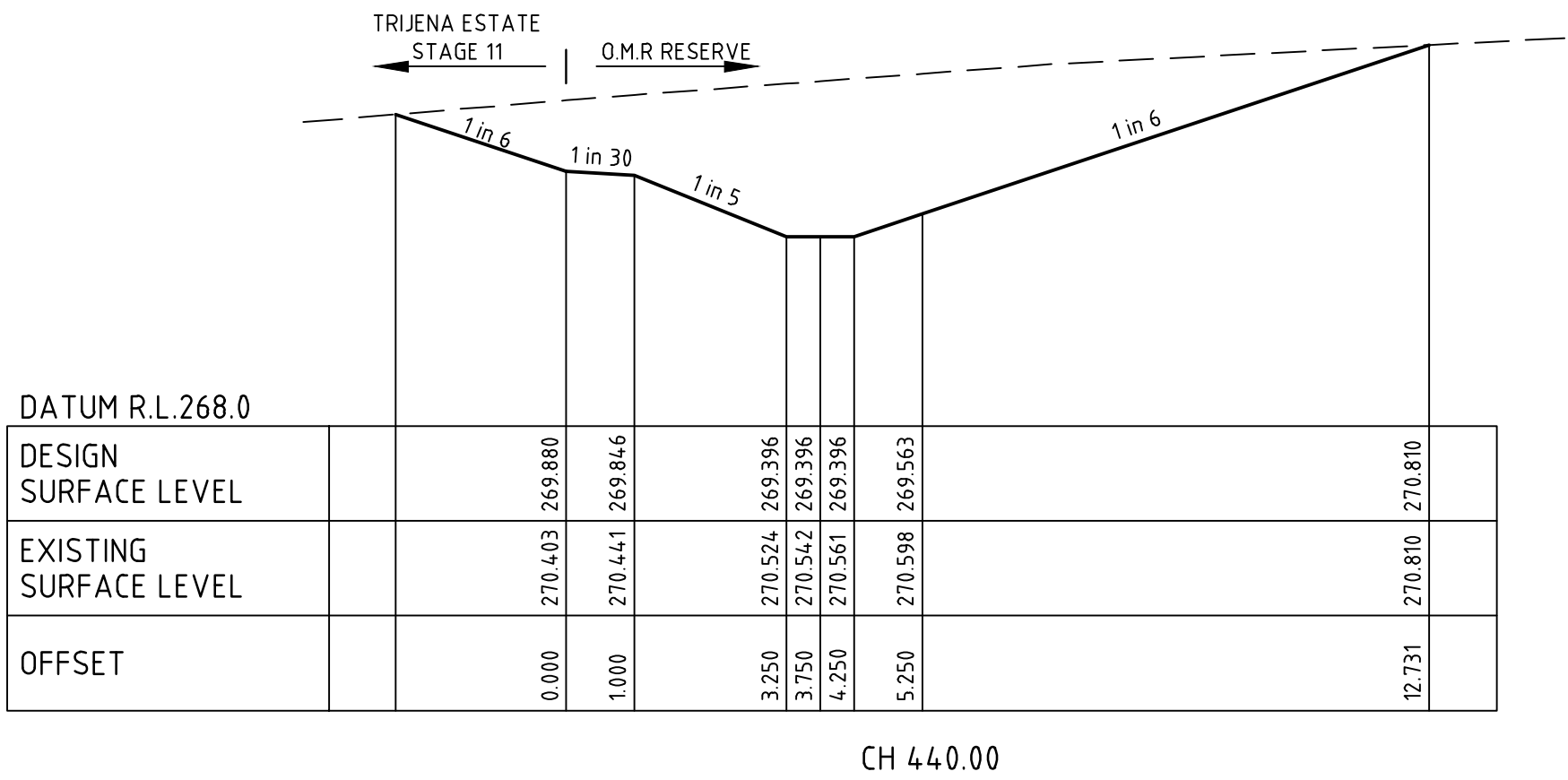
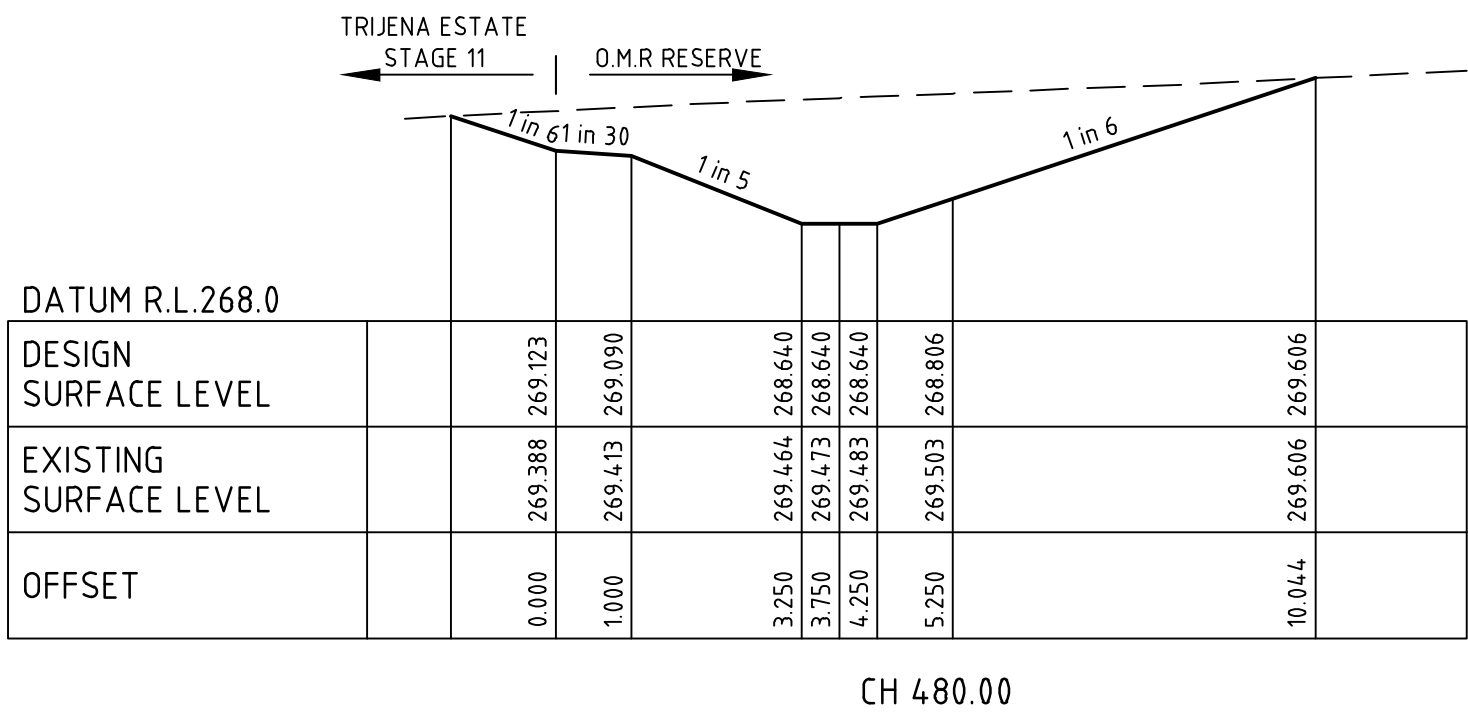
Checked  
**J.KOEHLER**  
  
Date  
**14-08-20**

**TRIJENA**  
**STAGE 9**  
**OVERHEAD DRAIN DETAILS**  
**SWEEP OPEN DRAIN DETAILS**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR902** Rev **1**



HYDROSEEDING NOTE  
ALL DISTURBED AREAS IN THE OUTER METROPOLITAN RING ROAD  
AREA ARE TO BE HYDROSEED AS PER HCC REQUIREMENTS.



file name: 304012CR900.dwg, layout name: CR900, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 3:17 PM, Sheet 26 of 31 Sheets

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED NOTES, AMENEDDED BATTERS TO EXISTING	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date

H 1:500  
SCALE @ A1  
V 1:50

0 5 10 15 20 25  
0 0.5 1.0 1.5 2.0 2.5



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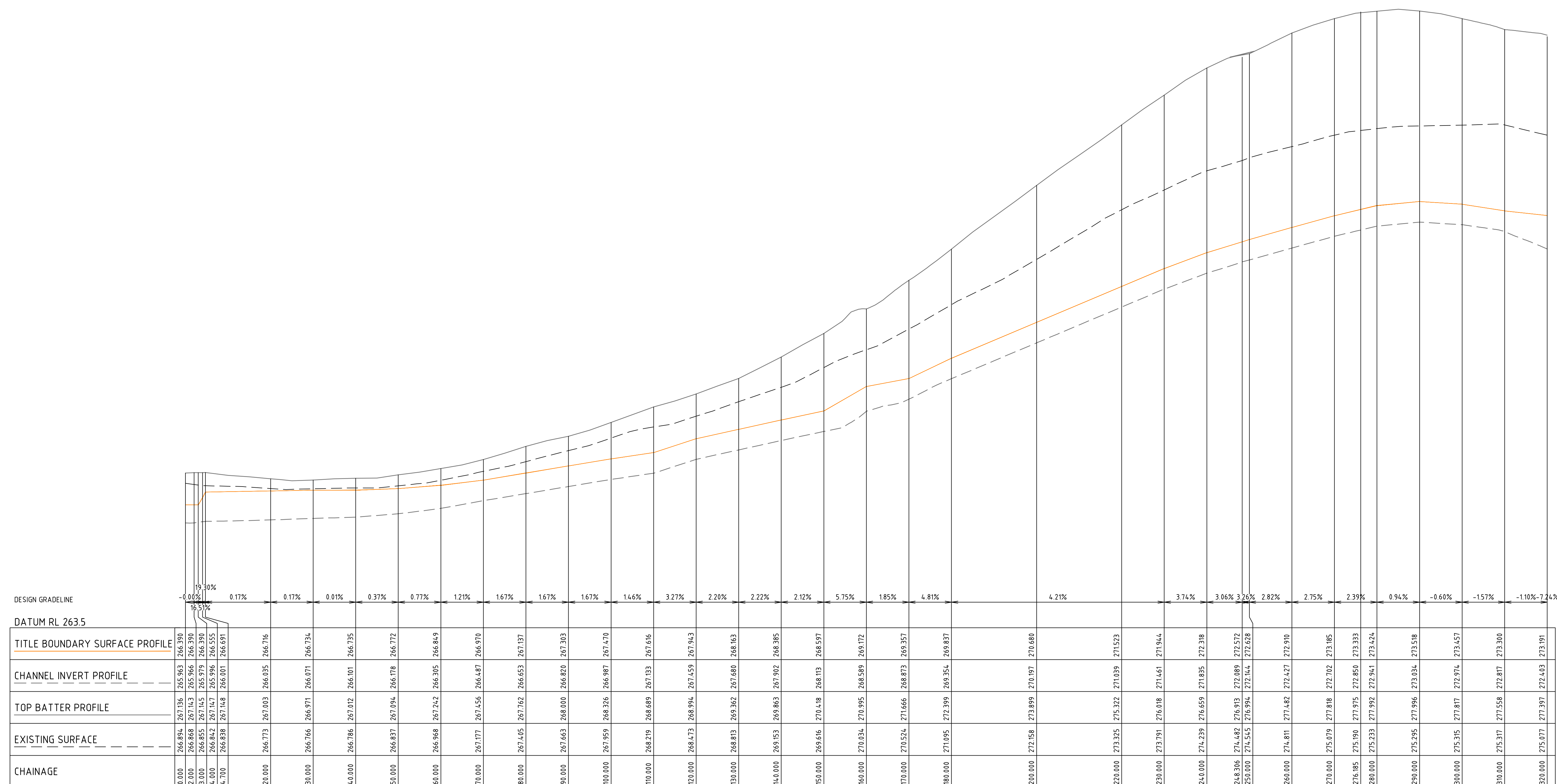
Checked  
**J.KOEHLER**  
  
Date  
**14-08-20**

**TRIJENA  
STAGE 9  
OVERHEAD DRAIN DETAILS  
OPEN DRAIN DETAILS**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR903** Rev **1**

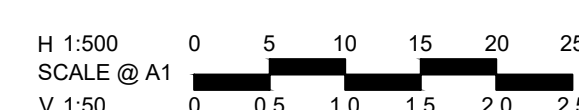


**HYDROSEEDING NOTE**  
ALL DISTURBED AREAS IN THE OUTER METROPOLITAN RING ROAD  
AREA ARE TO BE HYDROSEEDDED AS PER HCC REQUIREMENTS.



OPEN DRAIN (OMR RESERVE)

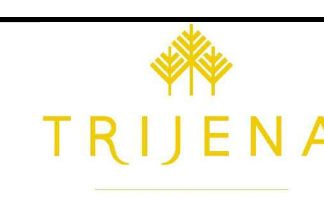
1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED CHAINAGE, NOTE, AMENDED DESIGN LINE COLOUR	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date



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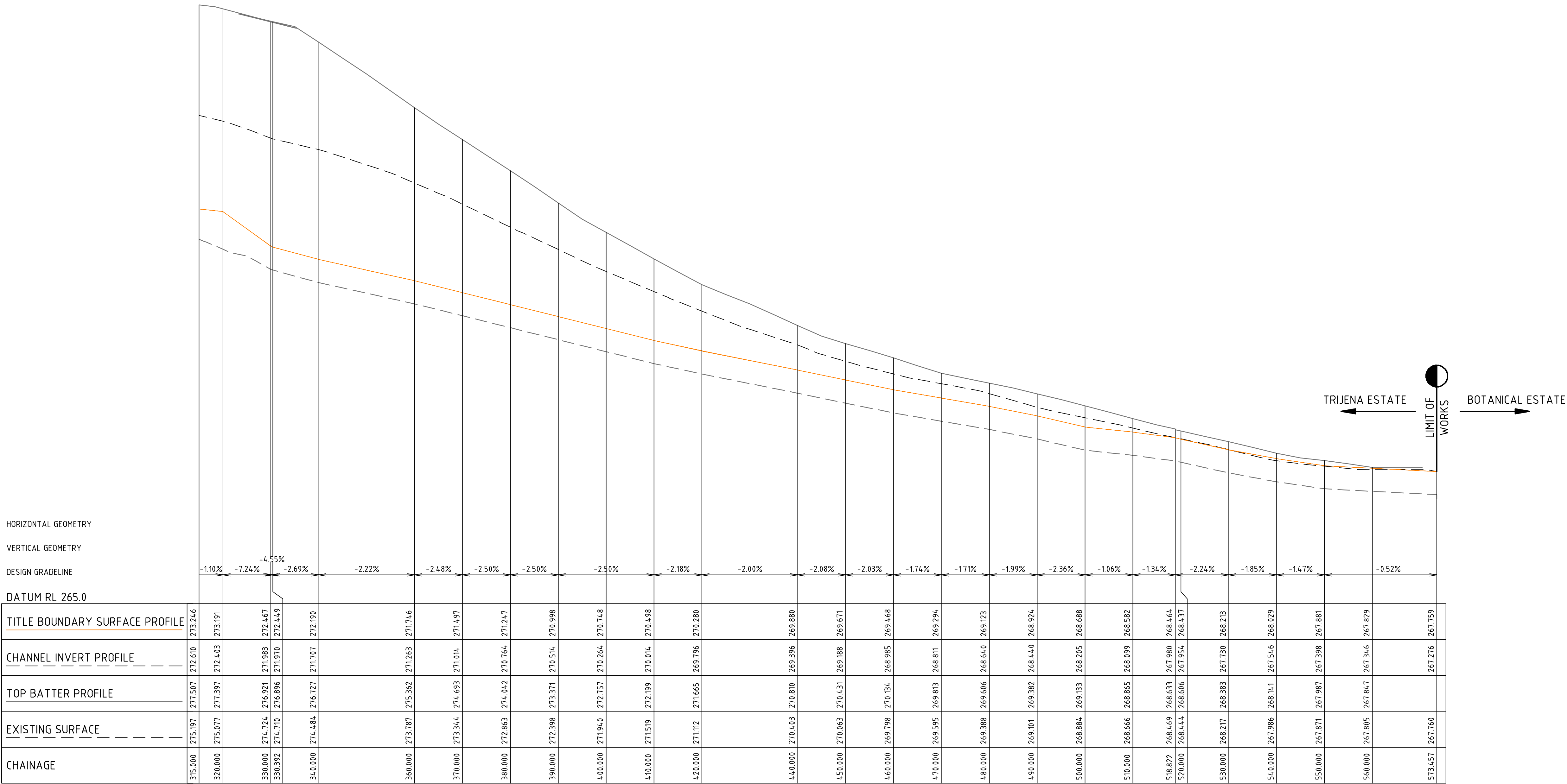
Checked  
J.KOEHLER  
Date  
14-08-20

**TRIJENA**  
**STAGE 9**  
~~OVERHEAD DRAIN DETAILS~~  
~~UNDER FLOOR DRAIN DETAILS~~  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR904** Rev **1**



HYDROSEEDING NOTE  
ALL DISTURBED AREAS IN THE OUTER METROPOLITAN RING ROAD  
AREA ARE TO BE HYDROSEEDED AS PER HCC REQUIREMENTS.



OPEN DRAIN (OMR RESERVE)

file name: 304012CR905.dwg, layout name: CDR905, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 15:17 PM, Sheet 28 of 31 Sheets

1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED NOTE, LIMIT OF WORKS. AMENDED DESIGN LINE COLOUR	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20
Rev	Amendments	Approved	Date

H 1:500  
SCALE @ A1  
V 1:50



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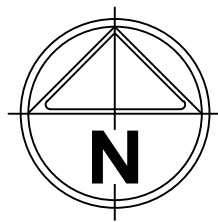
Checked  
**J.KOEHLER**  
Date  
**14-08-20**

**TRIENA**  
**STAGE 9**  
**OPEN DRAIN DETAILS**  
**OMR RESERVE**  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

**AS CONSTRUCTED** Drg No **304012CR905** Rev **1**



file name: 304012CR906.dwg, layout name: CR906, plotted by: Kieran Ayres, file location: G:\304012\304012.dwg, plot date: 05/08/2021 15:12 PM, Sheet 29 of 31 Sheets

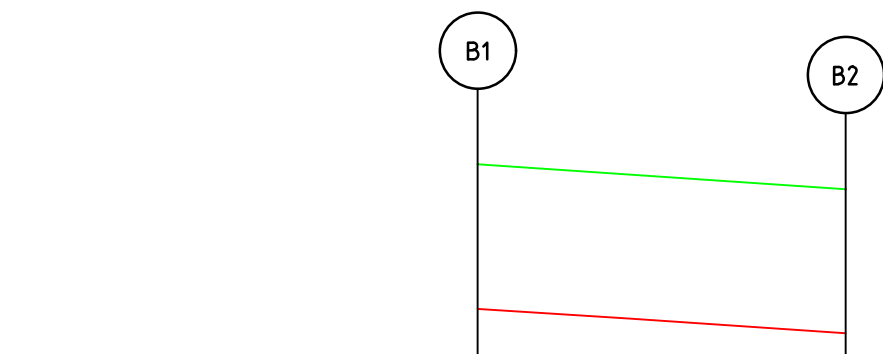


H 1:500  
SCALE @ A1

DATUM RL 263.0

RETAINING WALL TOP	265.652	265.512
RETAINING WALL BASE	265.147	265.007
CHAINAGE	0.000	21.000

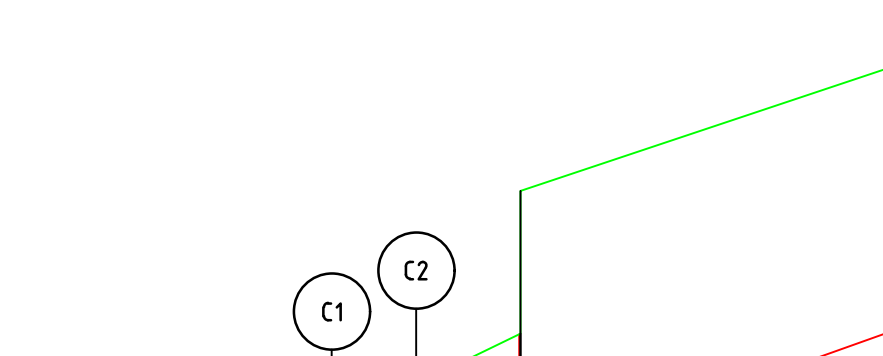
RETAINING WALL A



DATUM RL 266.0

RETAINING WALL TOP	269.401	269.238
RETAINING WALL BASE	268.447	268.285
CHAINAGE	0.000	24.351

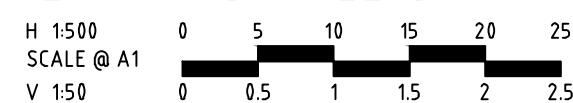
RETAINING WALL B



DATUM RL 265.0

RETAINING WALL TOP	267.845	267.893	268.451	269.397	270.230
RETAINING WALL BASE	267.364	267.392	267.518	267.706	268.481
CHAINAGE	0.000	1.001	5.608	12.499	37.500

RETAINING WALL C



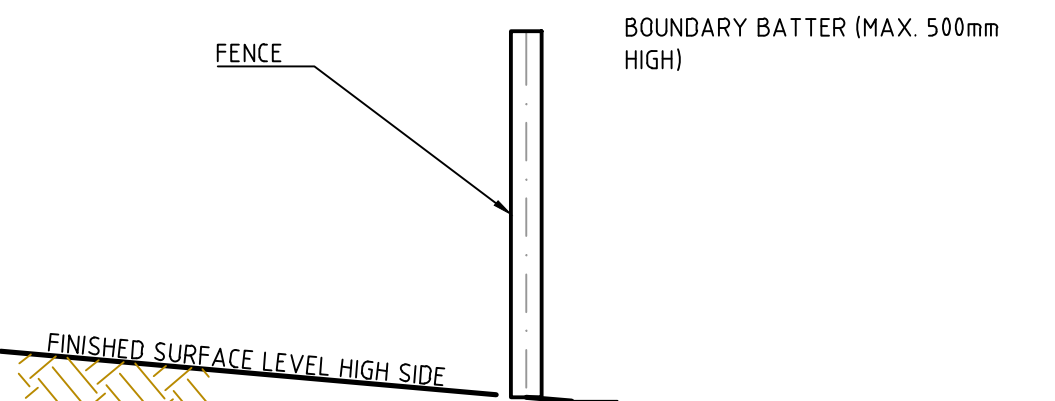
NOTE:

1. THE RETAINING WALL PLAN IS NOT PART OF SUBDIVISIONAL WORKS OR APPROVAL. IT IS SUBJECT TO SEPARATE APPROVAL, THIS SHEET IS SUPPLEMENTARY TO THE ENGINEERING DRAWINGS.
2. REFER TO STRUCTURAL DRAWINGS 0097 ST01 FOR DETAILS
3. CONCRETE SLEEPER RETAINING WALLS ARE TO BE CHARCOAL COLOURED
4. AG DRAINS BEHIND RETAINING WALLS TO DISCHARGE INTO PROPERTY DRAINAGE CONNECTIONS

### BOUNDARY BATTER SLOPE TYPICAL DETAIL

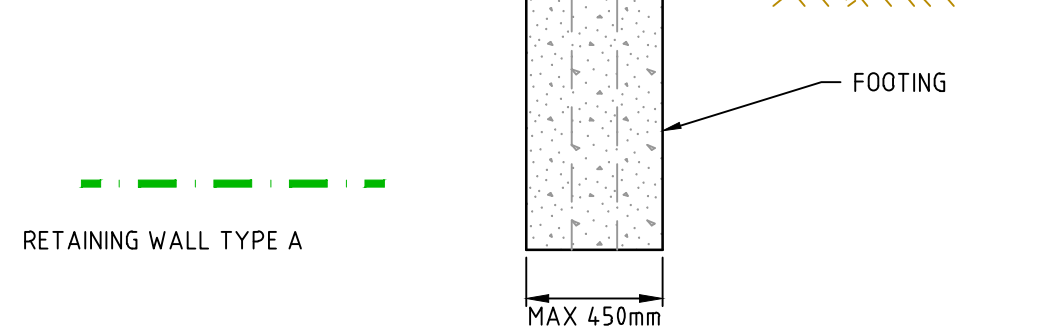
BOUNDARY BATTER SLOPE UP TO 500mm

NOT TO SCALE



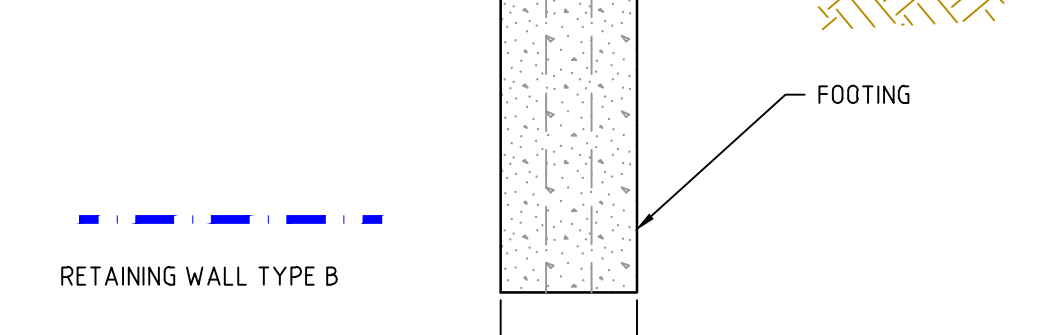
### RETAINING WALL TYPICAL DETAIL A

FOR RETAINING WALLS  
GREATER THAN 500mm  
NOT TO SCALE



### RETAINING WALL TYPICAL DETAIL B

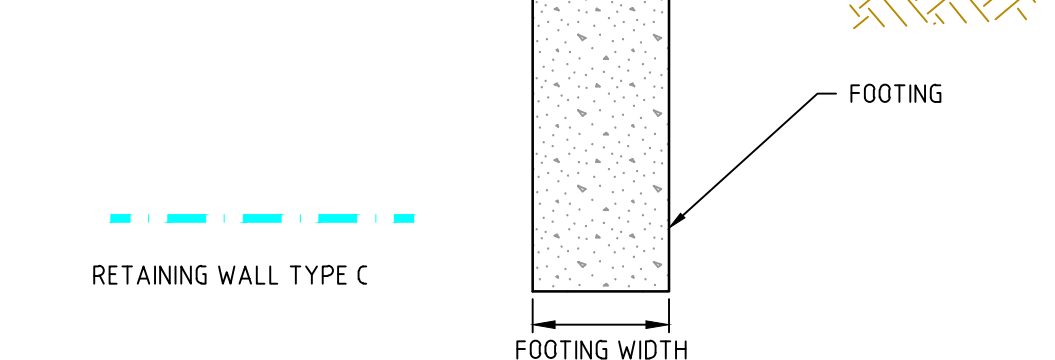
FOR RETAINING WALLS  
GREATER THAN 500mm  
NOT TO SCALE



NOTE:  
CONCRETE SLEEPER RETAINING WALLS ARE TO BE CHARCOAL COLOURED

### RETAINING WALL TYPICAL DETAIL C

FOR STREET FACING  
RETAINING WALLS  
NOT TO SCALE



NOT TO SCALE



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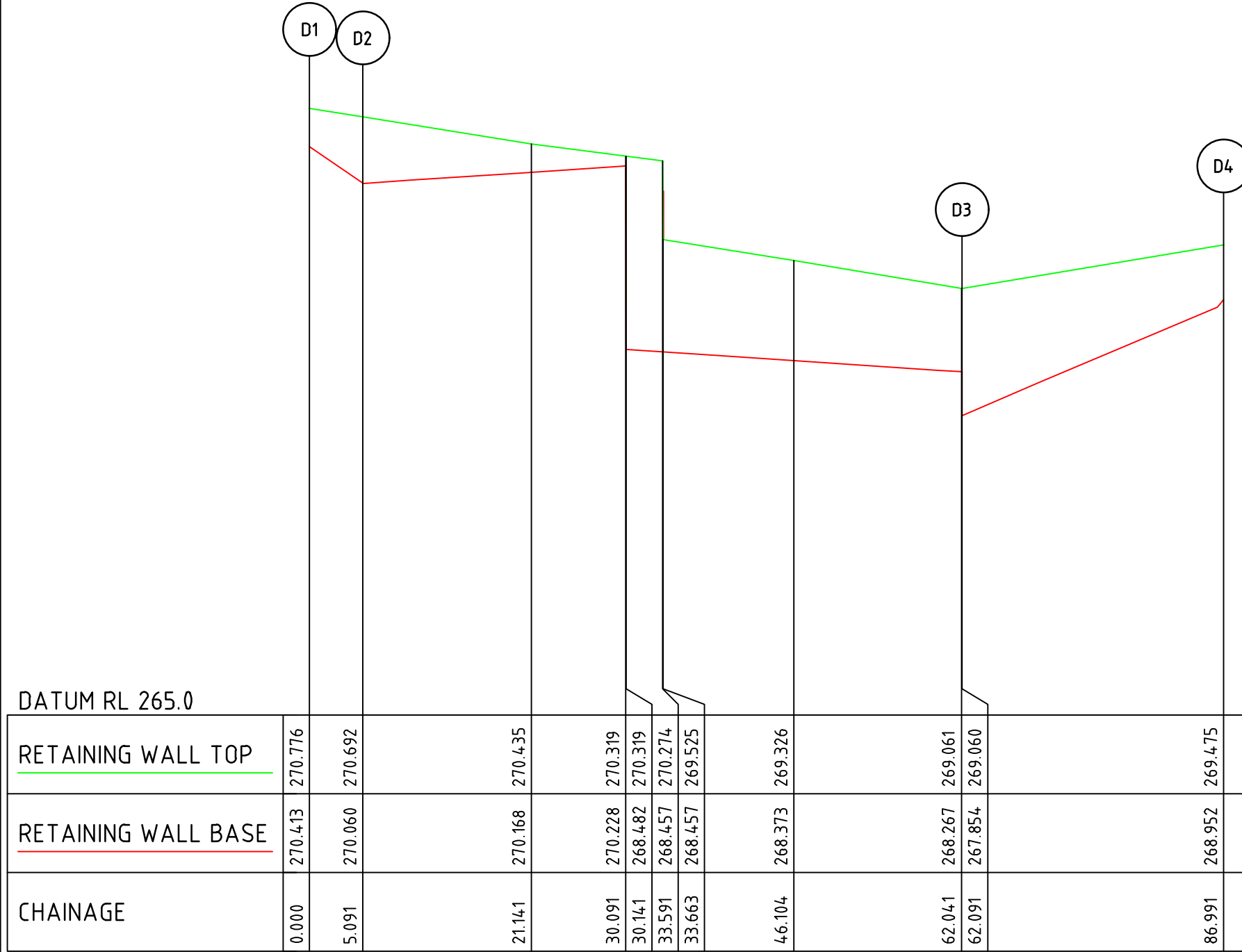


Checked  
J.KOEHLER  
Date  
14-08-20

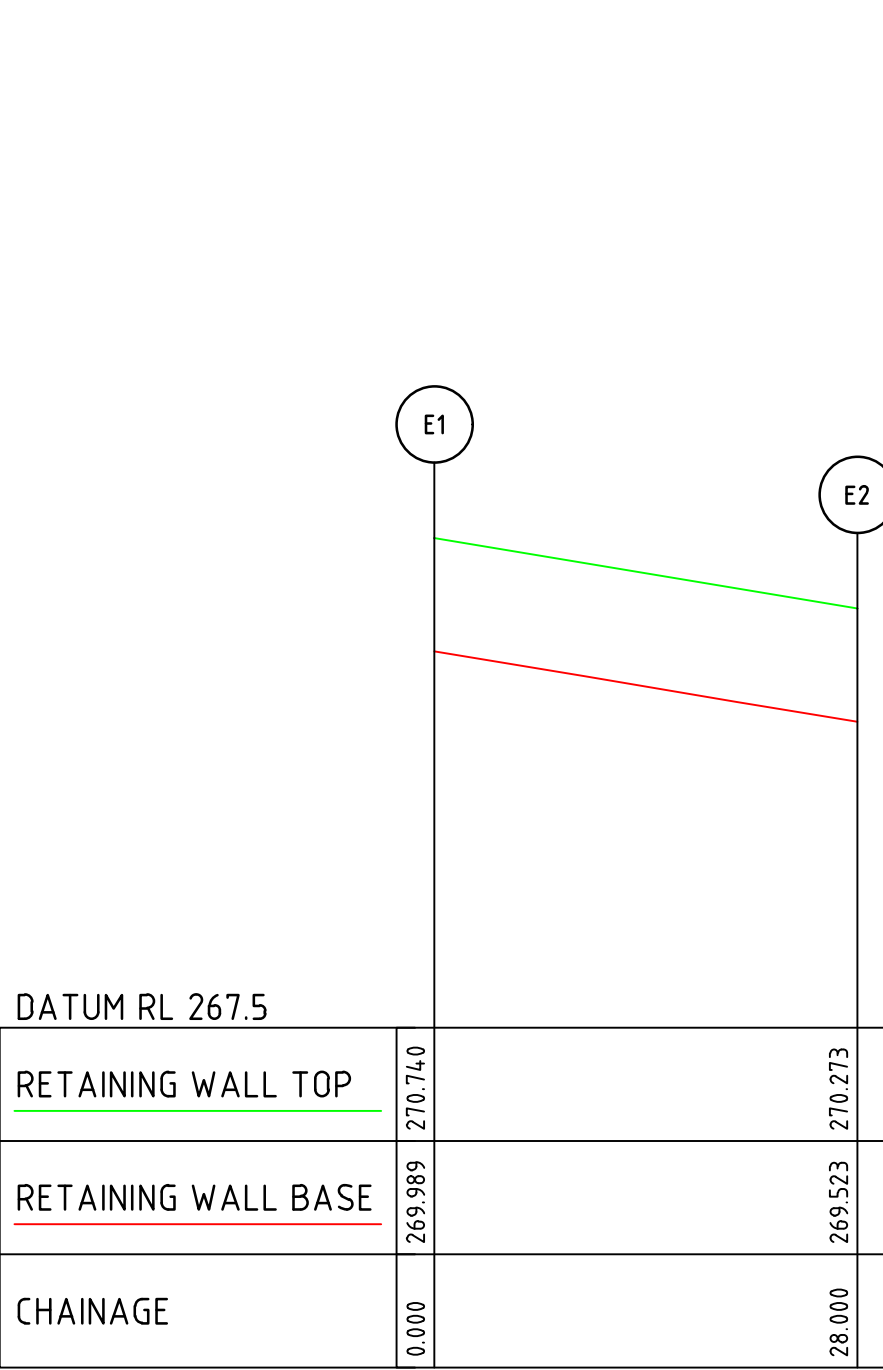
**TRIJENA**  
**STAGE 9**  
**RESIDENTIAL WALL DETAILS**  
**RESIDENTIAL WALL DETAILS**  
**HUME CITY COUNCIL**  
**PGG (MICKLEHAM) PTY LTD**

**AS CONSTRUCTED** Drg No **304012CR906** Rev **1**

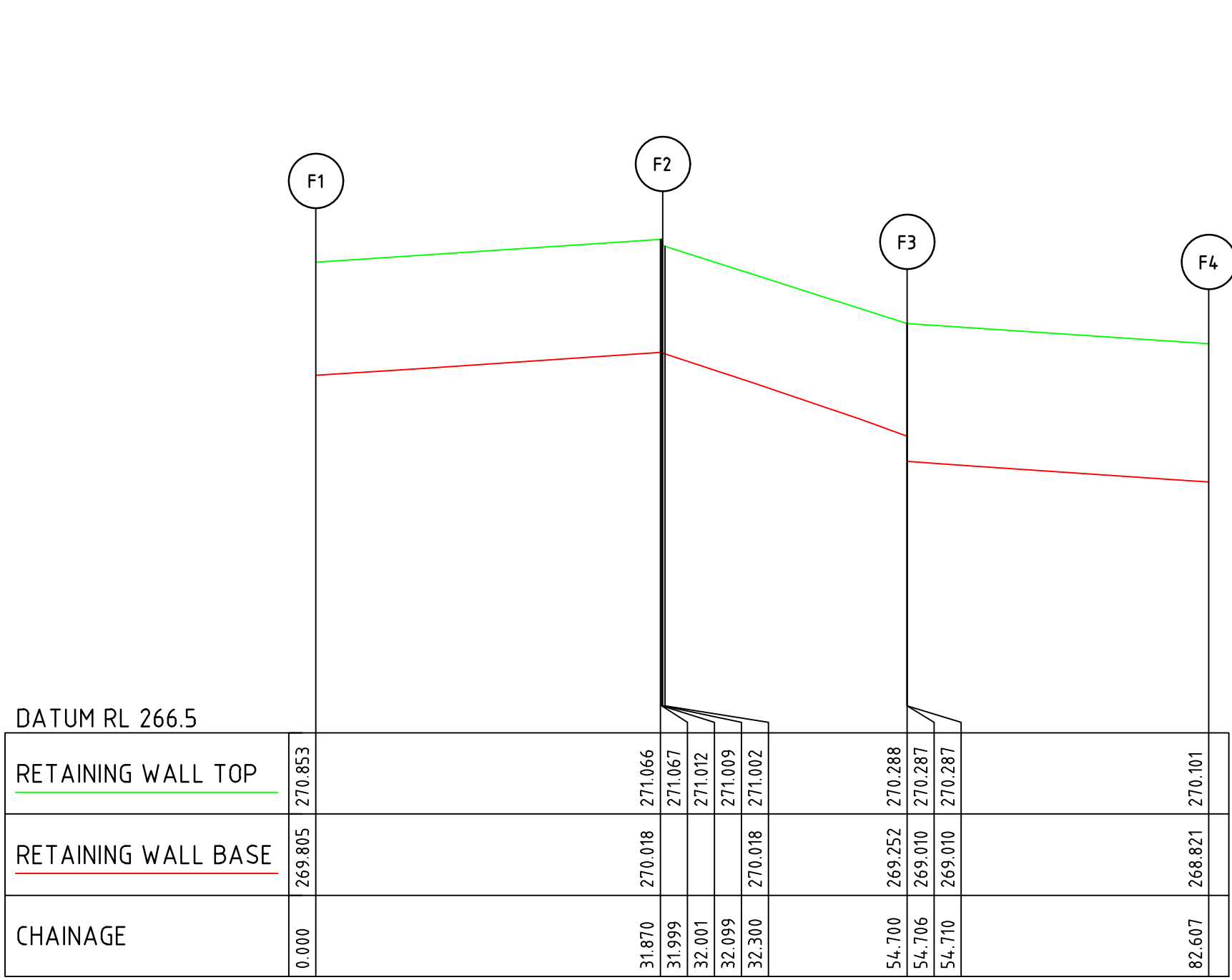




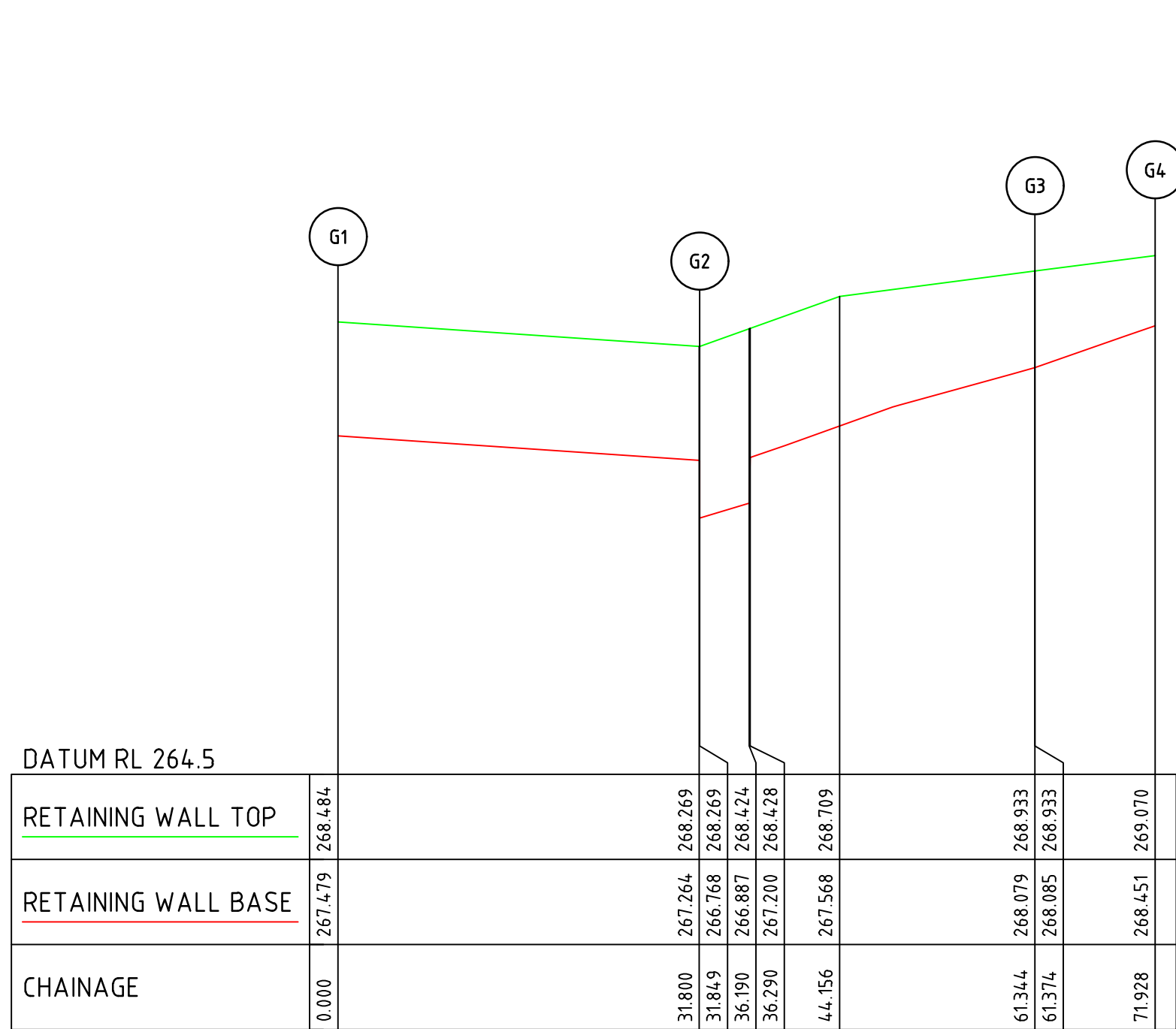
RETAINING WALL D



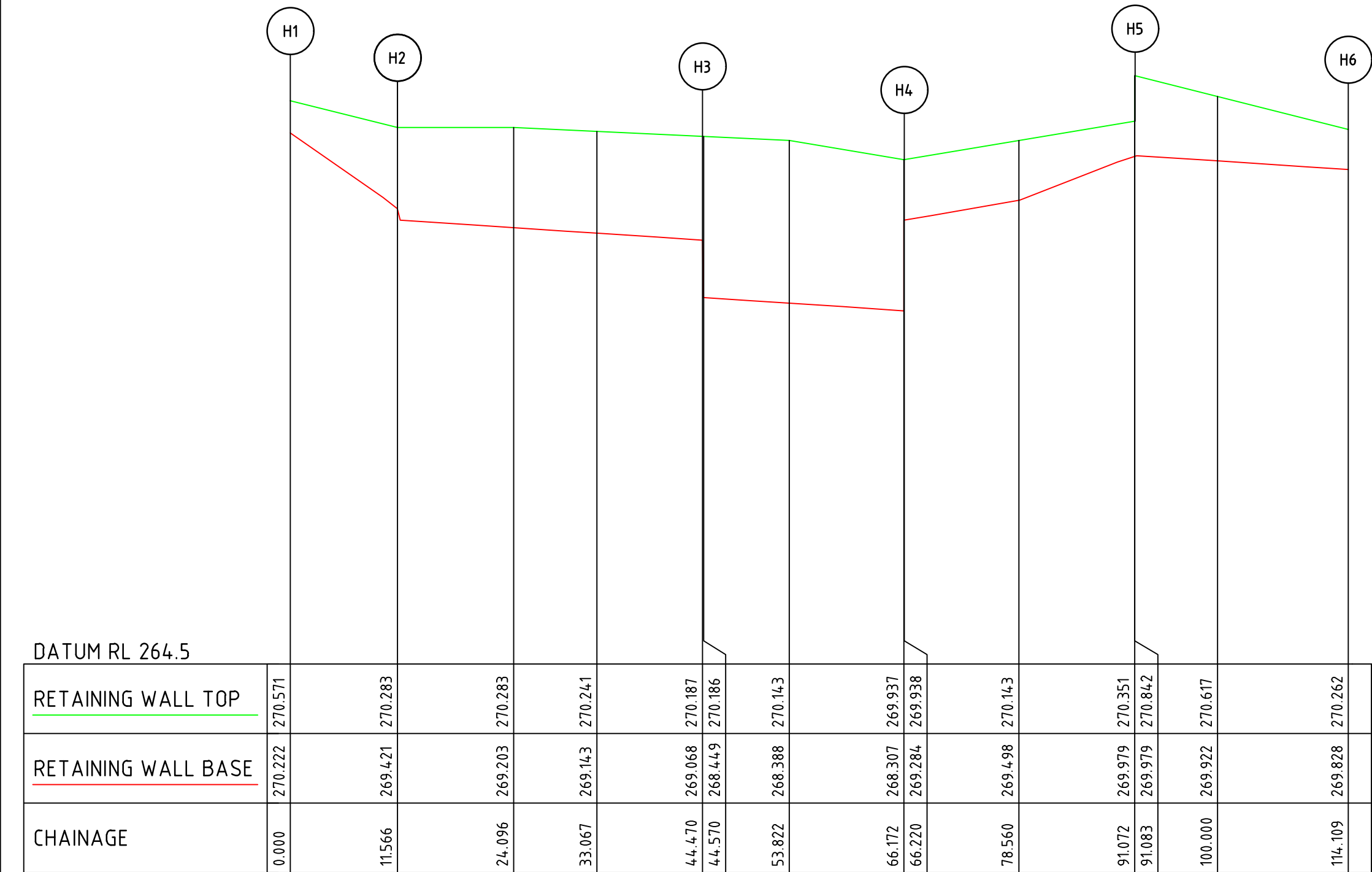
RETAINING WALL E



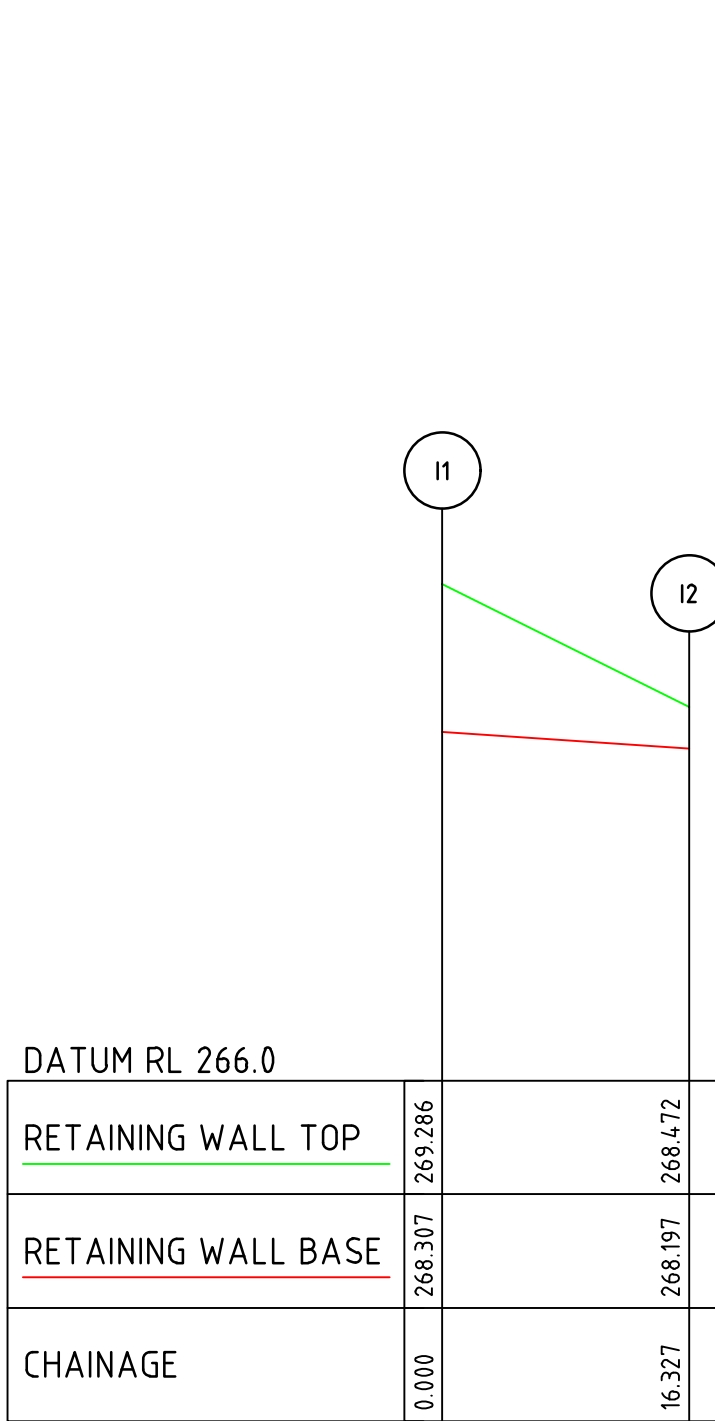
RETAINING WALL F



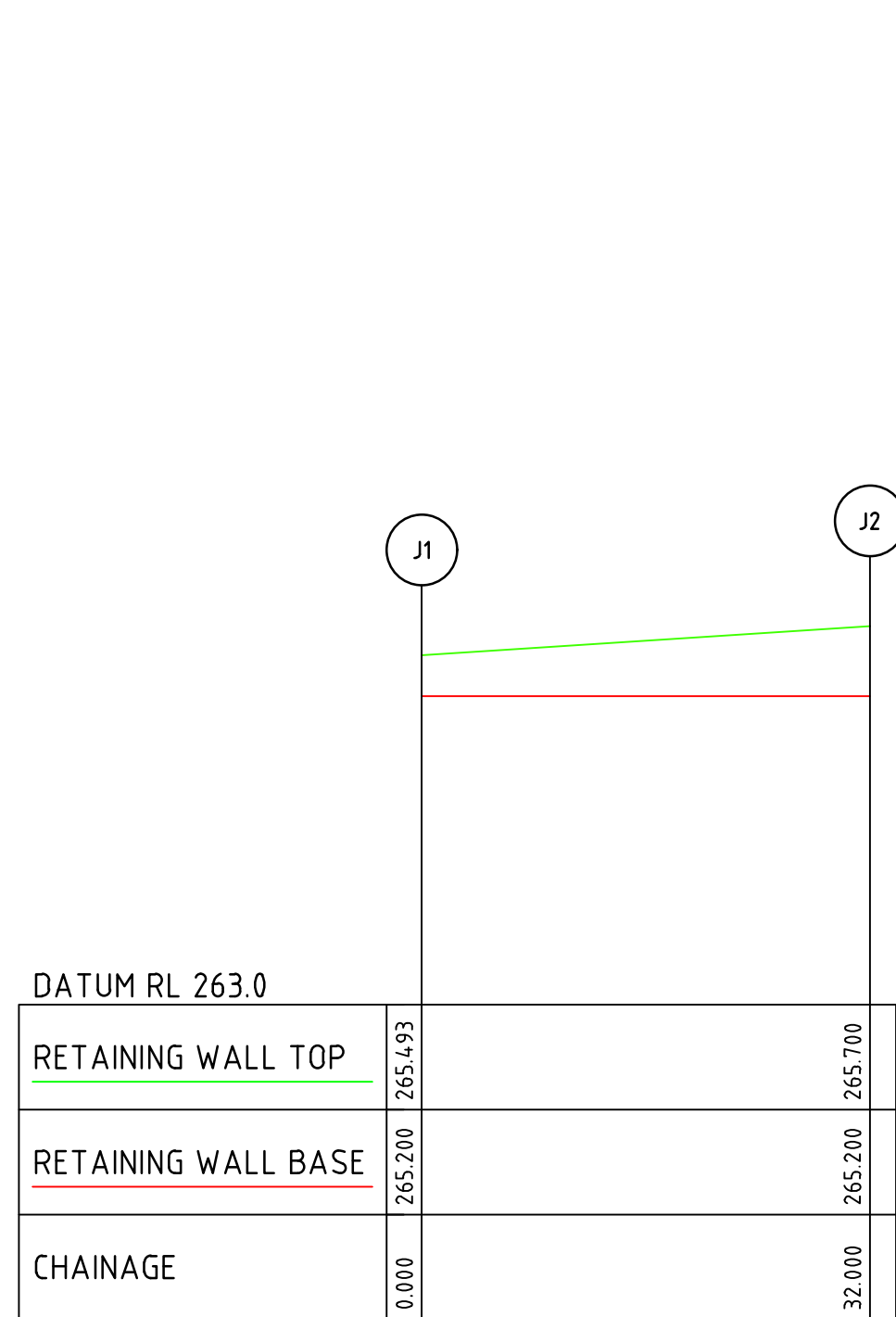
RETAINING WALL G



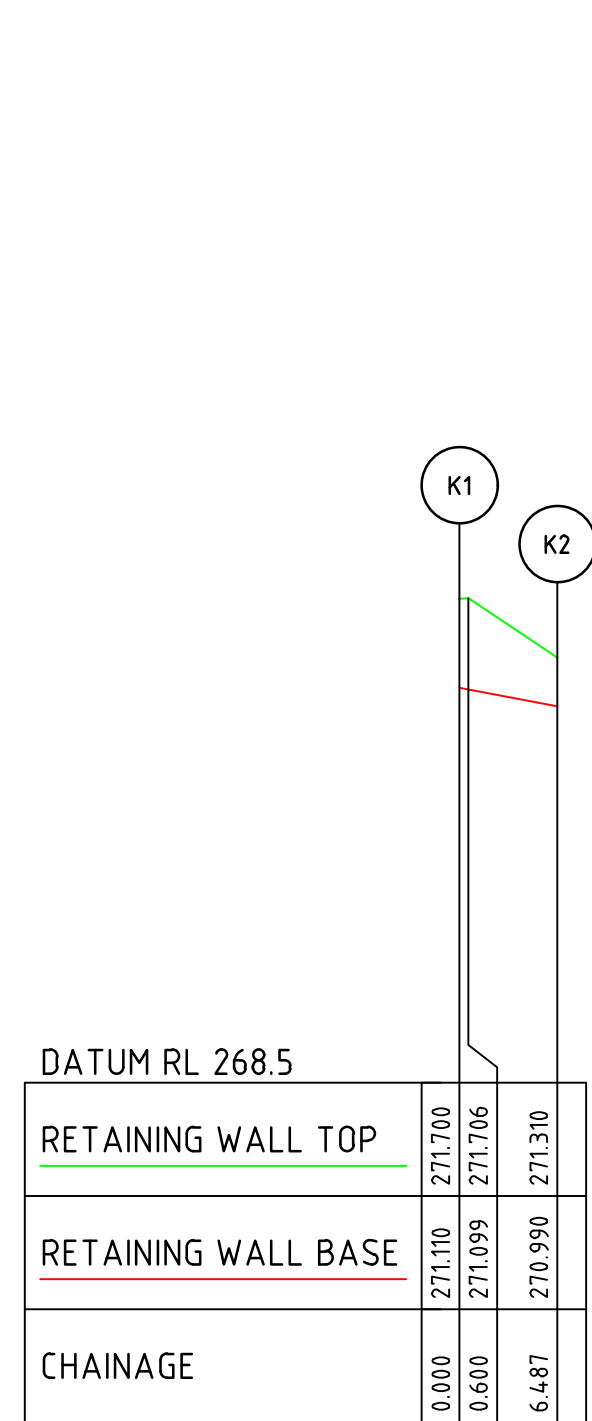
RETAINING WALL H



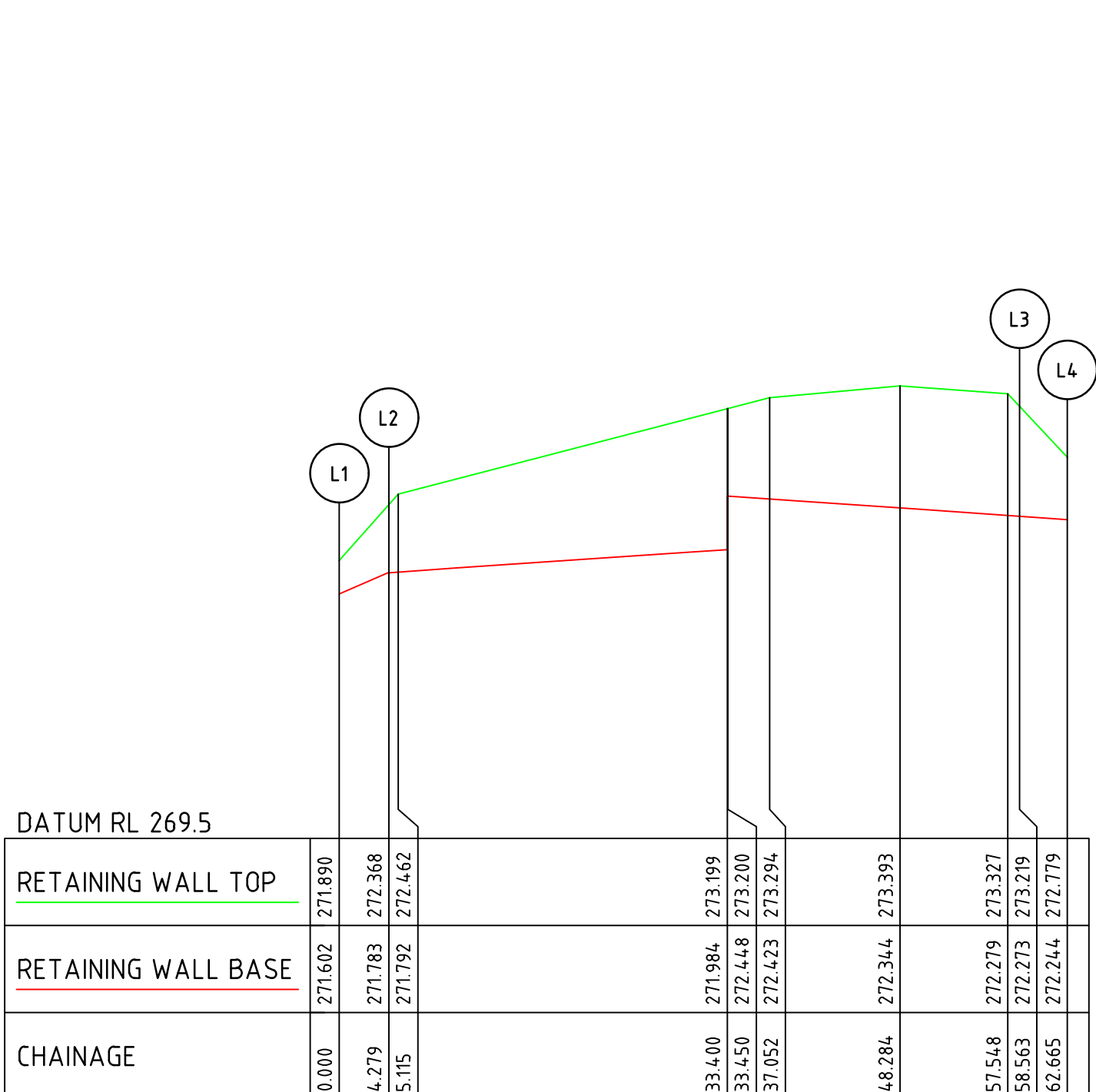
RETAINING WALL I



RETAINING WALL J

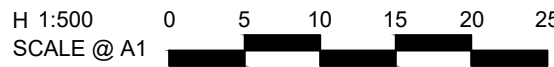


RETAINING WALL K



RETAINING WALL L

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05-08-21
0	ISSUED FOR CONSTRUCTION	M.T-S.	08-12-20
C	ADDED POINTS ON R.W Ls D & H. ADDED Ls FOR R.W J, K & L	M.T-S	24-09-20
B	ISSUED TO COUNCIL	M.T-S	17-08-20
A	ISSUED FOR TENDER	M.T-S	14-08-20



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W.MAY  
Authorised  
M.TOOMER-SMITH



Checked  
J.KOEHLER  
Date  
14-08-20

TRIJENA  
STAGE 9  
RETAINING WALL DETAILS  
BREASTING WALL DETAILS  
HUME CITY COUNCIL  
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED Drg No 304012CR907 Rev 1