

GENERAL

- 61 ALL DEVELOPMENT/CONSENT CONDITIONS ARE TO BE FULLY COMPLIED WITH THROUGHOUT THE COMPLETION OF THE PROJECT.
- 62 ALL WORK TO BE IN ACCORDANCE WITH DEVELOPMENT/CONSENT PLAN OF THE HILL TOPS SHIRE COUNCIL.
- 63 INSPECTIONS BY COUNCIL, DEVELOPMENT/CONTROL ENGINEERS ARE TO BE UNDERTAKEN AT 48 HOURS NOTICE IS REQUIRED FOR INSPECTIONS, HOWEVER THIS MAY VARY FOR CERTAIN INSPECTIONS
- 64 NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR PRIVATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE OWNER. A COPY OF THE WRITTEN PERMISSION IS TO BE SENT TO COUNCIL FOR ITS RECORDS.
- 65 ALL ROBBERIES, BUILDINGS, SHEETS, UNDERGROUW AND EMBOSSES ARE TO BE REMOVED FROM THE SITE PRIOR TO REMOVAL OF THE CONSTRUCTION MATERIALS AND TO BE RELOCATED BY THE CONTROL ENGINEER.
- 66 ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED ON SITE AND INSPECTED BY COUNCIL STAFF PRIOR TO REMOVAL, AS REQUIRED BY THE CONSENT CONDITIONS.
- 67 WHERE EXCAVATION IS REQUIRED ADJACENT TO TREES, ALL ROOTS SHALL BE CUT AND TREATED BY A QUALIFIED ARBORIST. CERTIFICATION BY THE ARBORIST THAT WORKS HAVE BEEN DONE IN ACCORDANCE WITH BEST PRACTICE WILL BE REQUIRED TO BE SUBMITTED TO COUNCIL PRIOR TO THE START OF CONSTRUCTION OF FINAL EMBOSSES.
- 68 THE RESULT OF CONSTRUCTION OF FINAL EMBOSSES TO BE SUBMITTED TO COUNCIL PRIOR TO THE START OF CONSTRUCTION OF FINAL EMBOSSES.
- 69 ALL EXISTING SERVICES TO BE LOCATED AND LEVELLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
- 70 ALL SERVICES AFFECTED BY NEW WORK TO BE ADJUSTED TO SUIT IN THE FIELD TO THE SATISFACTION OF THE RELEVANT SERVICE AUTHORITY.
- 71 THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL WHICH COMPLES WITH LAST 9/23/2002. A COPY OF THE TRAFFIC CONTROL PLAN IS TO BE SUBMITTED TO COUNCIL PRIOR TO THE COMMENCEMENT OF WORK AND CANCELLED BY A SIGNALY QUALIFIED PERSONS TO BE SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF ANY WORK. FURTHER PLANS ARE TO BE SUBMITTED IF WORK SITE ALTERS.
- 72 ANY ROAD RESTORATION REQUIRED SHALL BE IN 150mm LAYERS OF PG540 FROM THE 90% DOWM OF TRENCH OF TOP OF SAND OVERLAY OVER AN PIPE, COMPACTED TO A MINIMUM OF 97% MODIFIED COMPACTION WITH THE FINAL LAYER OF 100mm OF D820 COMPACTED TO A MINIMUM OF 97% MODIFIED COMPACTION AND FINISHED LEVEL WITH D820 ROAD SURFACE.
- 73 THE CONSTRUCTION OF THE SUBDIVISION, THE ROAD PAVEMENT, ROADSIDE DRAINAGE ON UNDERGROUND FACILITIES IN COUNCIL ROADS WHICH GIVE ACCESS TO THE SUBDIVISION, AND ALL DISPERSED AREAS TO BE RENAIATED AS NEARLY AS POSSIBLE TO THE PRE-CONSTRUCTION CONDITION.

EXISTING DETAIL

1. THE POSITION OF IMPROVEMENTS TO BOUNDARIES ARE DIAGRAMATIC ONLY
2. POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE)
3. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. RELEVANT AUTHORITIES ARE TO BE NOTIFIED PRIOR TO ANY DEVELOPMENT
- DEPTH AND LOCATION TO BE VERIFIED ON SITE BY POT-HOLING AND LOCATOR. IF DEPTH INSUFFICIENT, TO BE RELOCAED
4. ALL DIMENSIONS ARE BY TITLE ONLY & SUBJECT TO FINAL SURVEY
5. CONTOURS ARE INDICATIVE OF GROUND FORM ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
6. NO INVESTIGATIONS HAVE BEEN MADE OF BUILDING RESTRICTIONS WHICH MAY APPLY TO THIS LAND
7. CONTOUR INTERVAL 0.2m MINOR, 1.0m MAJOR
8. THE SPREAD AND HEIGHT OF TREES SHOWN ARE INDICATIVE ONLY AND CANNOT BE SHOWN ACCURATELY WITHOUT ADDITIONAL DETAILED SURVEY

ROADWORKS

- R1 FINAL PAVEMENT THICKNESS AND TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH COUNCIL'S DEVELOPMENT CONTROL PLAN
- R2 TILL AREAS:-
a) ALL ROAD AND STURKELEY DRIVE TO BE CLEARED OF UNDERGROUNDS AND GRASS, TOPSOIL TO BE LAYED AND STOCKPILLED ON SITE FOR SPREADING AND FOOTPATHS, BATTERS AREAS AND OTHER TILL AREAS PRIOR TO COMPLETION
- R3 REPLACED BY SELECT MATERIAL AS DETERMINED BY COUNCIL'S ENGINEER, TO BE REMOVED AND REPLACED BY SELECT MATERIAL AS SPECIFIED ON SITE
- R4 a) ALL EXISTING IN SITU CONCRETE SHALL BE REGISTERED LABORATORY IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS, RELEVANT AUSTRALIAN STANDARDS AND BEST ACCEPTED PRACTICE
- R5 ALL TESTING WORKS SHALL BE CONTROLLED AND CERTIFIED BY N.A.T.A REGISTERED LABORATORY, COPIES OF ALL TEST CERTIFICATES CLEARLY INDICATING THE LOCATION OF EACH TEST AND THE RESULTS OF EACH TEST TO BE SUBMITTED TO COUNCIL FOR REVIEW AND APPROVAL
- R6 b) ALL TESTS STATISTICALLY COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL
- R7 CONDUITS FOR ELECTRICITY AND TELECOM TO BE PROVIDED AND PLACED AS REQUIRED.
- R8 SERVICE CONDUITS TO BE:-
a) PLACED AS DIRECTED BY INTEGRAL ENERGY AND AS REQUIRED BY THE HILL TOPS SHIRE b) AND GENERALLY AS SPECIFIED BY EACH RELEVANT AUTHORITY.
- R9 c) BACKFILLED WITH SHARP COARSE SAND.
- R10 d) EXTEND MINIMUM 300mm BEHIND KERB.
- R11 e) Laid PRIOR TO LAYMENT OF FINAL SURF COURSE
- R12 f) ALL CONDUITS TO BE AS REQUIRED BY COUNCIL'S ENGINEER.
- R13 THE CONTRACTOR, AS PART OF THE FINAL CONFIRMANCE, SHALL PROVIDE SURVEY ACQUISITION LEVEL, CONFIRMANCE SHEETS FOR ROAD CHANGES, C, RIS, LHS OR ROAD CHANGES OF GRADE AT FINISHED SURFACE LEVEL OF EACH ROAD LAYER. THESE RESULTS, ALONG WITH THE TEST COMPACTION RESULTS, WILL INDICATE CONFIRMANCE WITH THE APPROVED DESIGN.

SERVICES

- SE1 WHERE EXISTING DRAINAGE, SEWERAGE AND WATER SERVICES ARE TO BE RELOCATED, A PLUMBERS PERMIT AND APPROVAL UNDER SECTION 69 OF THE LOCAL GOVERNMENT ACT IS REQUIRED FROM COUNCIL PRIOR TO COMMENCEMENT OF WORK.
- SE2 UPON COMPLETION OF WORK A WORK AS EXECUTED PLAN IS REQUIRED
- SE3 ALL BURIED SERVICES TO EXISTING BUILDINGS ARE TO BE DISCONNECTED AND REMOVED.

STORMWATER

- 51 KERB INLET PITS TO CONFORM TO SD
52 JUNCTION PITS TO CONFORM TO SD
53 INTER-ALUMEN DRAINAGE PITS TO CONFORM TO SD
54 INTER-ALUMEN DRAINAGE PITS TO BE DESIGNED WHICH COMPLIES WITH A.3.3725 AND
55 DE-ICE OPENING CONTROL PLAN
56 PROVIDE STEERING ON ALL DRAINAGE PITS ON SAG PITS UNLESS OTHERWISE SHOWN.
57 BARRIERS TO ALL PITS ON ROAD RESUME TO COMPLY WITH DEVELOPMENT CONTROL PLAN
58 CALLED BY AN ENGINEER OR SURVEYOR
59 ALL PIPE JOINS IN PITS HEADWALLS AND OTHER DRAINAGE STRUCTURES ARE TO BE MORTARED TO
60 PREVENT INFILTRATION.

WATER

- M1 ALL WORKS TO BE CARRIED OUT TO THE PUBLIC WORKS DEPARTMENT, N.S.W. AND HILL TOPS SHIRE COUNCIL DEVELOPMENT CONTROL PLAN
- M2 WORKS ARE TO BE LOCATED BY THE RELEVANT AUTHORITIES PRIOR TO THE COMMENCEMENT OF WORKS.
- M3 COUNCIL ARE TO BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF WORKS AND FOR ALL WORKS TO BE CARRIED OUT BY THE COUNCIL
- M4 PRIOR TO ACCESSING, ALL WORKS TO BE INSPECTED BY COUNCIL, AND TO ALLOW WORK AS EXECUTED INSPECTIONS TO BE CARRIED OUT
- M5 WATER MAINS ARE TO HAVE A MINIMUM DEPTH OF COVER OF 600mm IN CARRIAGEWAYS AND 500mm IN FOOTPATHS
- M6 CONTRACTOR TO ENSURE NEW MAIN LEVEL MATCHES THE EXISTING MAIN ADJACENT TO THE CUTN
- M7 COUNCIL TO UNDERTAKE MAIN CUT IN CONTRACTOR TO PAY RELEVANT FEES AND PROVIDE ALL NECESSARY FITTINGS. ALL FITTINGS USED ARE TO HAVE FACTORY APPLIED CORROSION PROTECTION AND CARRY RELEVANT AUSTRALIAN STANDARDS MARK.
- M8 CONTRACTOR TO PAY RELEVANT FEES AND SUBMIT APPLICATION FORMS FOR COUNCIL TO CONNECT WATER SERVICES TO EXISTING MAIN
- M9 ALL PIPES AND SERVICE PIPES SHALL HAVE A 1.5MM PLASTIC INSULATED TRACE WIRE LAD ON TOP OF THE PIPE. THE WIRE SHALL BE MADE ACCESSIBLE AT FITTINGS AND AT THE PROPERTY END OF THE SERVICE PIPES.

SEWER

- SW1 ALL WORKS ARE TO BE CARRIED OUT TO THE PUBLIC WORKS DEPARTMENT, N.S.W. AND
SW2 ALL TPO'S COUNCIL OF DEVELOPMENT CONTROL PLAN
SW3 MANHOLE AND LAUNCHES CONSTRUCTION TO CONFORM TO PUBLIC WORKS DEPARTMENT STANDARD
SW4 AND DEVELOPMENT CODE 91/92 OF THE CITY, EXCEPT WHERE VARYED BY COUNCIL'S SUBORDINATE
SW5 AND DEVELOPMENT CODE
SW6 ALL SERVICES ARE TO BE LOCATED BY RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT OF WORKS
SW7 COUNCIL IS TO BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF WORKS AND INSPECTIONS
SW8 WORKS CARRIED OUT PRIOR TO BACKFILLING
SW9 ALL WORK TO BE INSPECTED BY COUNCIL PRIOR TO BACKFILLING
SW10 SEWER JUNCTIONS TO BE MARKED WITH RED POLYETHYLENE TAPE TIED TO THE JUNCTION AND A
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FILLING AND SITE REGRADING

- 01 DAMS TO BE STRIPPED OF TOPSOIL, ALL EXPOSED SILT AND OTHER UNSUITABLE MATERIAL SHALL BE
- 02 STRIPPED AND DISPOSED OF AS DIRECTED BY THE ENGINEER.
- 03 STRIPPED AREA TO BE COMPACTED TO A DEPTH OF 200mm TO A DENSITY NOT LESS THAN 95%.
- 04 STRIPPED AREA TO BE COVERED WITH A MINIMUM OF 200mm OF TOPSOIL.
- 05 THICKNESS MEASUREMENT FOLLOWING INSPECTION ON THE STRIPPED AREA BY THE ENGINEER.
- 06 INSPECTION AND TESTING OF FILLED LAYERS SHALL BE CARRIED OUT BY QUALIFIED SOLIS PERSON.
- 07 AND A REGISTERED TESTS LABORATORY AS FOLLOWS:
- 08 1. AT THE COMPLETION OF EACH LAYER.
- 09 2. AT THE COMPLETION OF PLACEMENT OF MAXIMUM 500mm OF COMPACTED FILL. (1
- 10 100gram).
- 11 3. AT THE COMPLETION OF WORKS.

REGRASSING

- RG1 ALL DISTURBED AREAS TO BE GRASSED (TURFED OR SEEDED) WITHIN 70 DAYS OF WORK BEING COMPLETED. THE AREA TO BE GRASSED SHALL BE TO A MINIMUM DEPTH OF 150mm INCLUDING THE APPLICATION OF LIQUID FERTILIZER AND GRASS SEED.
- RG3 TURF IS TO BE PLACED A MINIMUM 900mm WIDE BEHIND ALL KERBS AND CONCRETE ROADWAYS.
- RG4

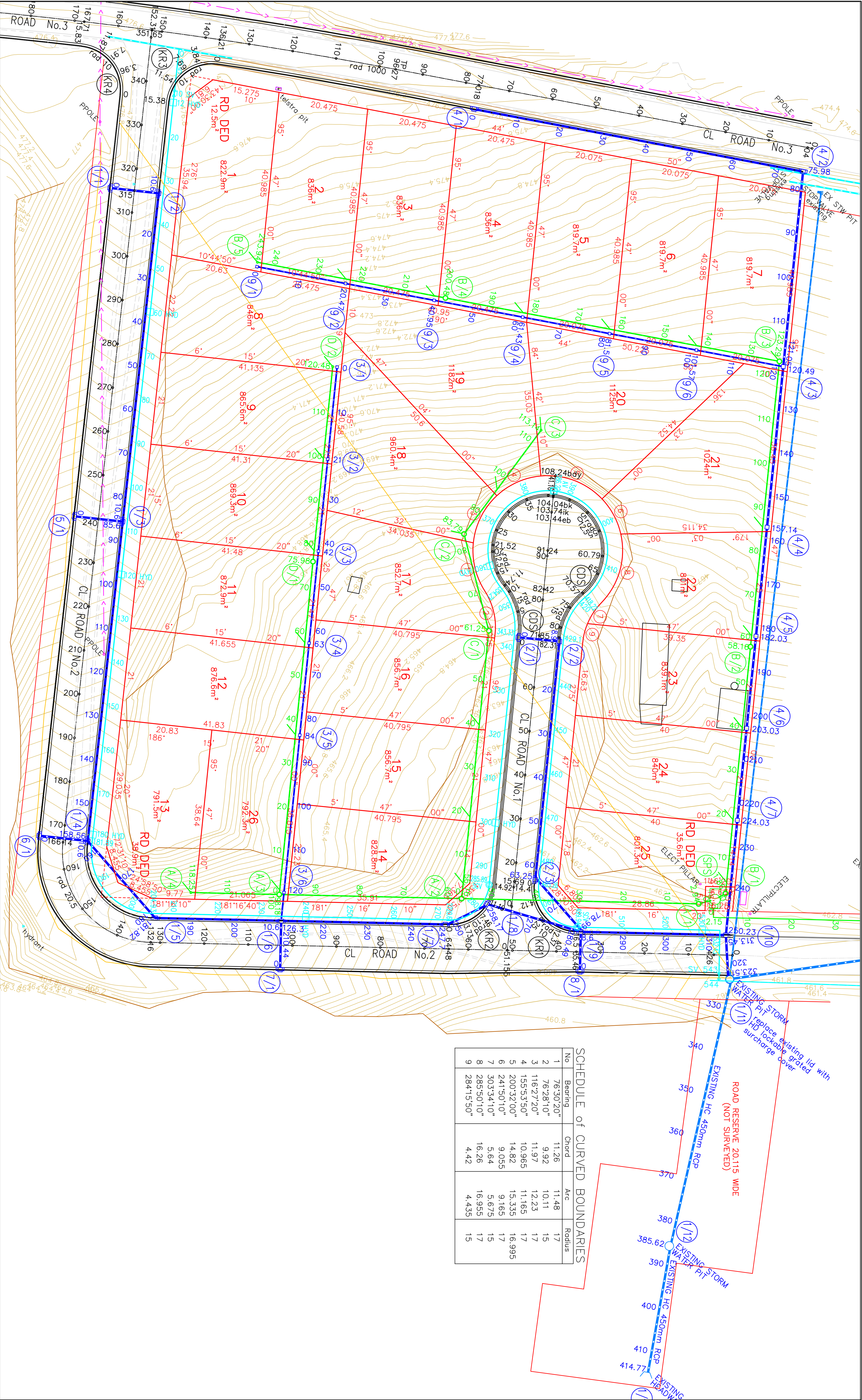
CONCRETE

- C1 WORKMANSHIP AND MATERIALS TO CONFORM WITH THE REQUIREMENTS OF A.S. 3600, FORMWORK BE IN ACCORDANCE WITH A.S.1509.
- C2 CONCRETE STRENGTH TO BE GRAD. 20, A.S.3600 (20MP) THROUGHOUT UNLESS NOTED OTHERWISE.
- C3 EXPANDED POLYSTYRENE (EPS) INSULATION MATERIALS IN ALL PARTWAYS AND JOINTS TO JOINT FILLER / SEALANT TO BE 100% BRIDGES (ONE SUPER SEALANT) TYPE UV.
- C4 JOINT FILLER / SEALANT TO BE TO THICK, BRIDGES (ONE SUPER SEALANT) TYPE UV.
- C5 CRACK CONTROL JOINTS SHALL BE TOOK, FINISHED AT 4mm TOLERANCE BETWEEN EXPANSION JOINTS.
- C6 20mm DEEP.
- C7 CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.
- C8 INSPECTION CONTROL SHALL NOT BE PLACED UNTIL THE COMPLETED FASWORK, FORMWORK, REINFORCEMENT FIXING HAVE BEEN INSPECTED AND APPROVED BY THE COLONIAL ENGINEER.

LEGEND

PROPOSED	DESCRIPTION	EXISTING	FUTURE
 	BLACKMAX 375 STORMWATER PIPE INTER ALLOTMENT DRAINAGE LINE SUBSOIL DRAIN		
  	STANDARD KERB INLET PIT GRADED STANDARD SURCHARGE PIT		
	STANDARD INTER ALLOTMENT DRAINAGE JUNCTION PIT		
	STANDARD JUNCTION PIT		
	STORM WATER LINE 2PIT 4		
	STANDARD CONCRETE HEADWALL		
	STANDARD 150mm KERB & GUTTER	 EXISTING K & G	
	STANDARD ROLL KERB	 EXISTING RKG	
	STANDARD MOUNTABLE KERB		
 	KERB RETURN PROFILE NUMBER		
 	MAJOR CONTOUR MINOR CONTOUR		
	PROPERTY BOUNDARY		
	BENCH MARK		
 	SEWER MAIN DEAD END / LAMP HOLE, MANHOLE PROPERTY BOUNDARY RISER & JUNCTION SEWER LINE B PIT No.2	 	
	WATER MAIN, HYDRANT, STOP VALVE BOUNDARY CONNECTION: TAPPING, SADDLE, STOP COCK & METER	 EXISTING	
	TESTRA LINE, PIT	  	

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B		Revised layout	17/09/2024		
C		Preliminary Engineering	11/09/2024		
D		variation to storm water design - retain existing pipe 1/11 - 1/13	3rd Feb, 2025		
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SCHEDULE of CURVED BOUNDARIES			
No	Bearing	Chord	Arc Radius
1	76°30'20"	11.26	11.48
2	76°28'10"	9.92	10.11
3	116°27'20"	11.97	12.23
4	155°53'50"	10.965	11.165
5	200°32'00"	14.82	15.335
6	241°50'10"	9.055	9.165
7	303°34'10"	5.64	5.675
8	285°50'10"	16.26	16.955
9	284°15'50"	4.42	4.435

D

variation to storm water design: retain existing pipe 1/11 - 1/13

3rd Feb. 2025

C

Preliminary Engineering

11/09/2024

B

Revised layout

17/07/2024

A

Concept Design

02/07/2024

ISSUE

AMENDMENT

DATE

I HEREBY CERTIFY THAT ENGINEERING WORKS SHOWN ON THIS PLAN ARE WORK-AS-EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS

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DATE

3rd Feb. 2025

CHECKED

JRM

DRAWN

WJC

APPROVED

SCALE

1:250

SHEET

A1

GOLUBURN: 4823 5100 I YOUNG: 6382 1501

THE LAND CONSULTANT SPECIALISTS

WWW.SRD.LAND.COM.AU

SHEET SUBJECT

PLAN VIEW

CLIENT

CUS BARAKAT

PROJECT

PROPOSED 25 LOT RESIDENTIAL SUBDIVISION

PROJECT NO.

40250

SHEET NO.

2

SHEET

19

ISSUE

D

PROJECT NO.

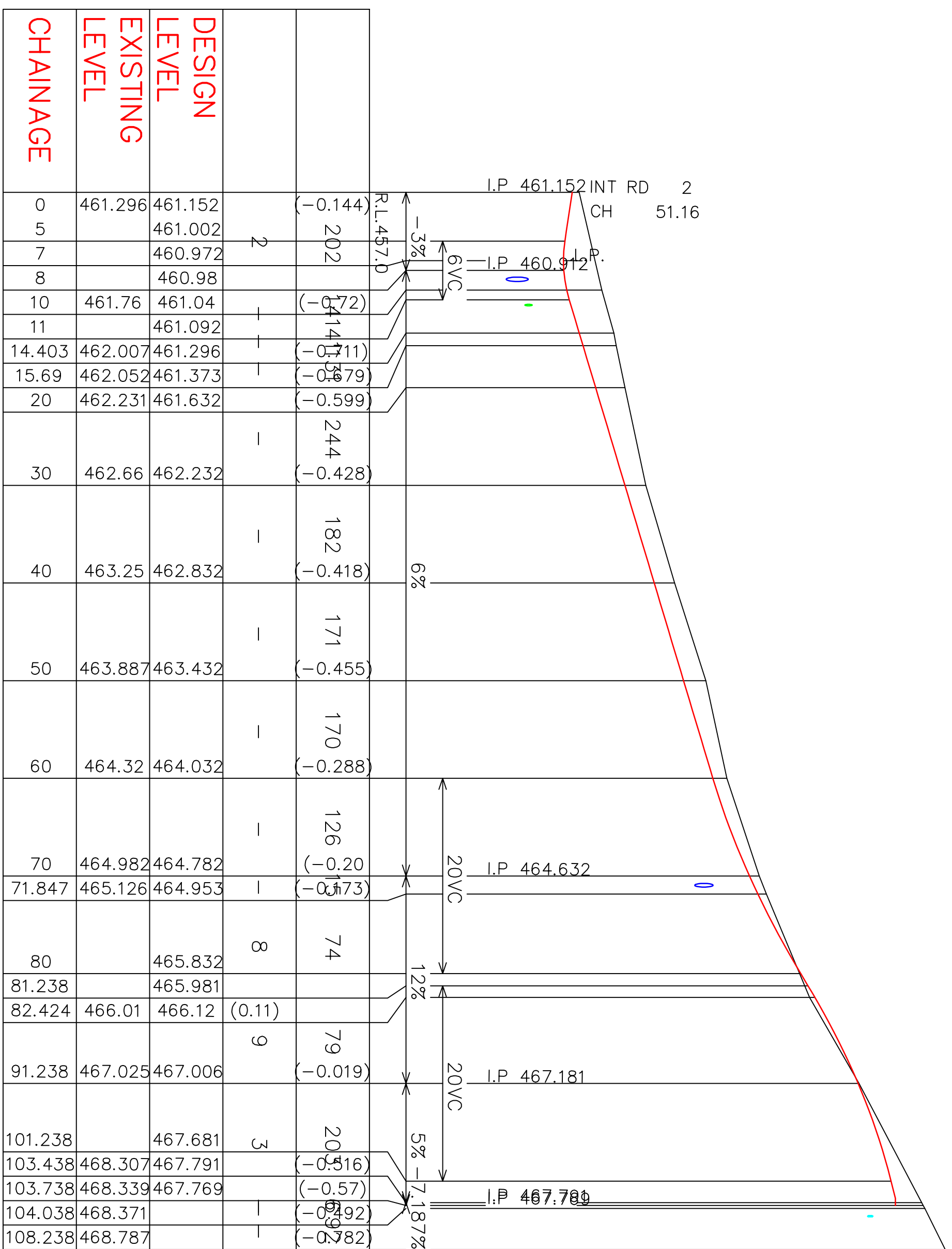
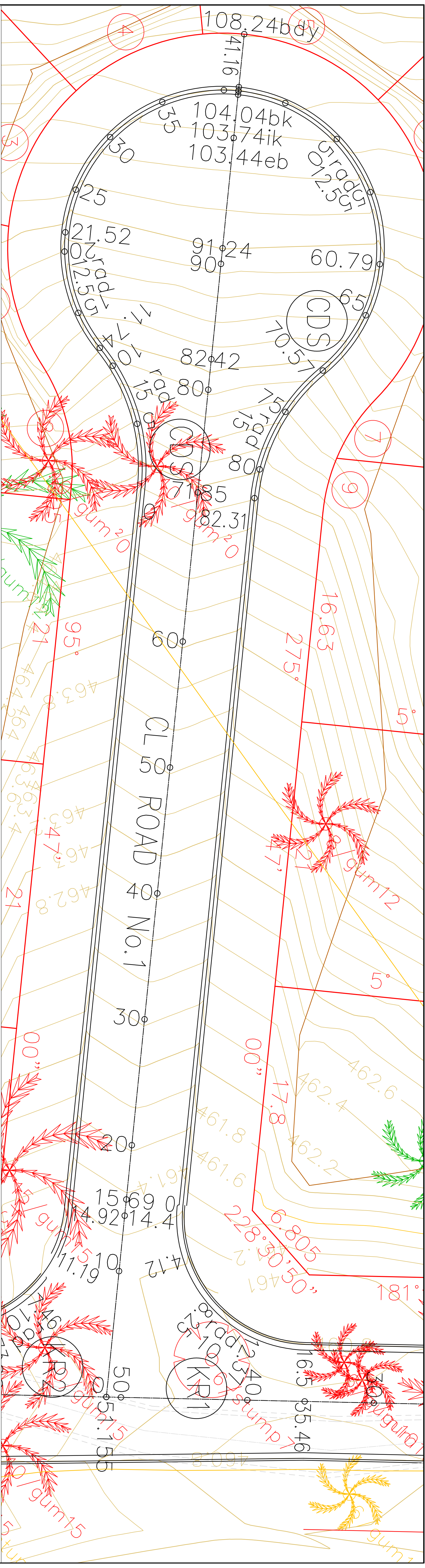
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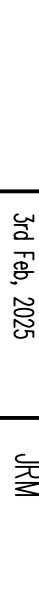
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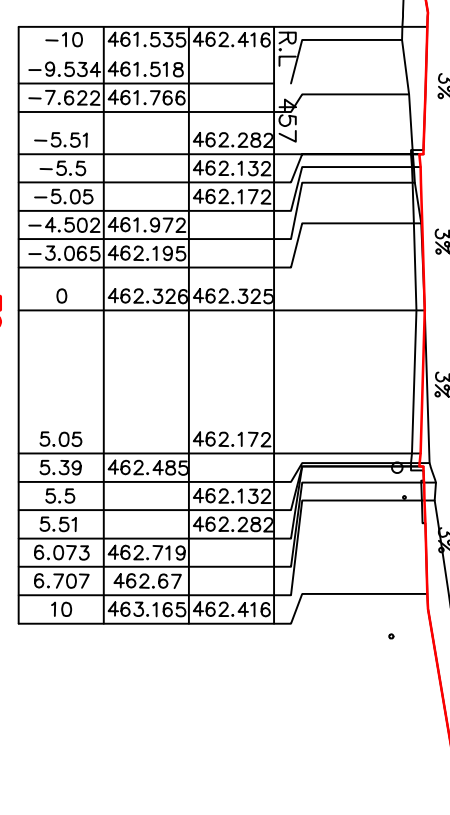
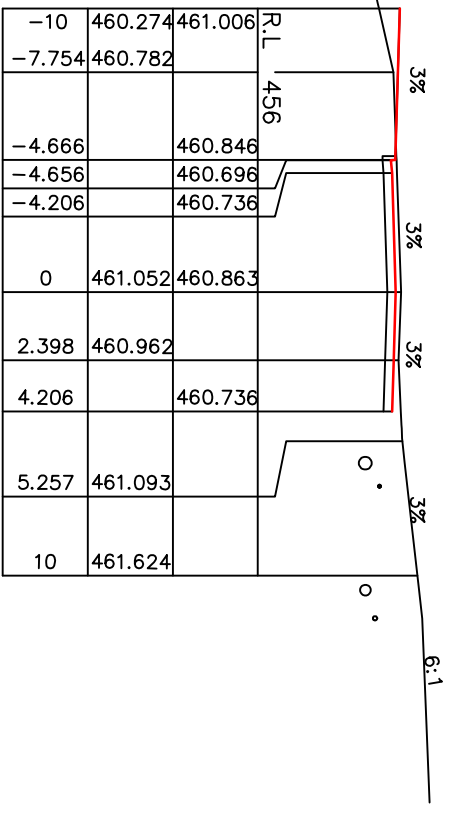
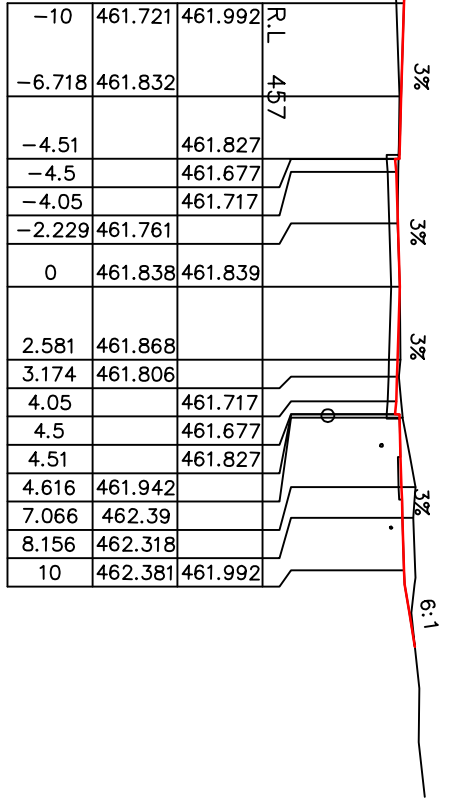
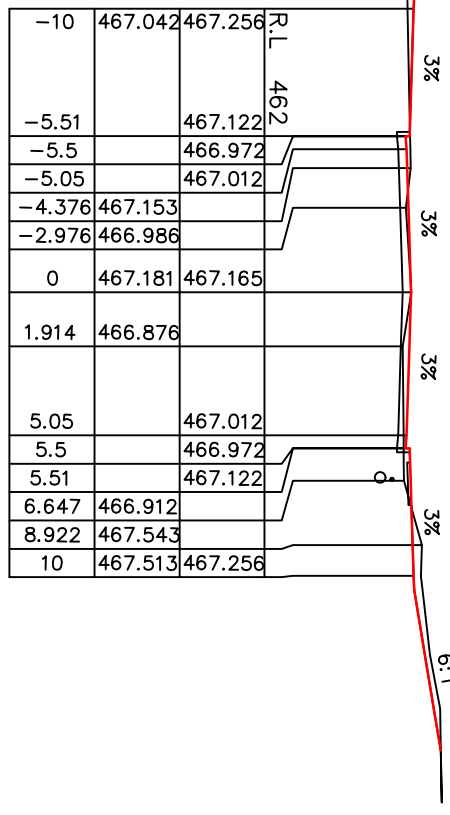
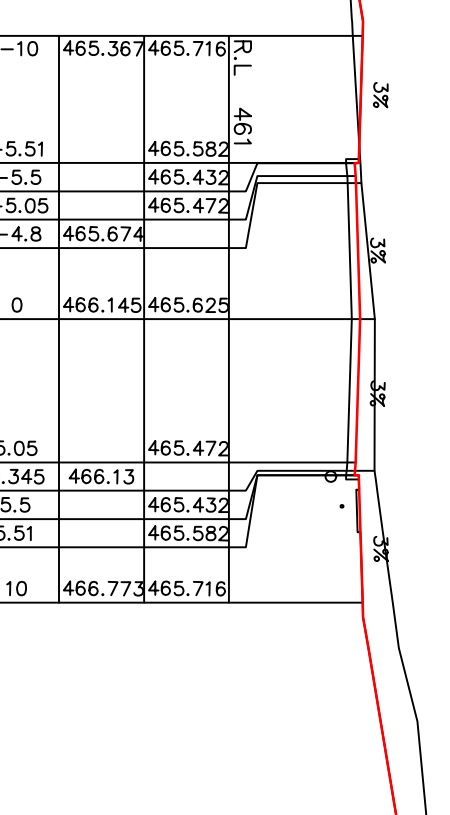
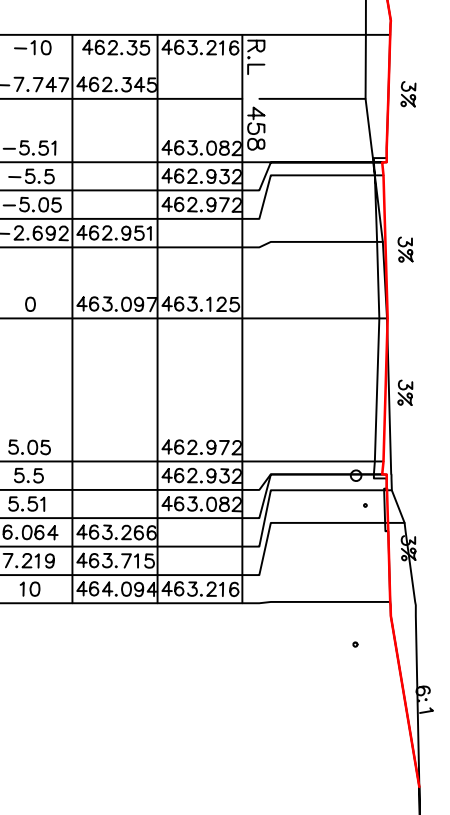
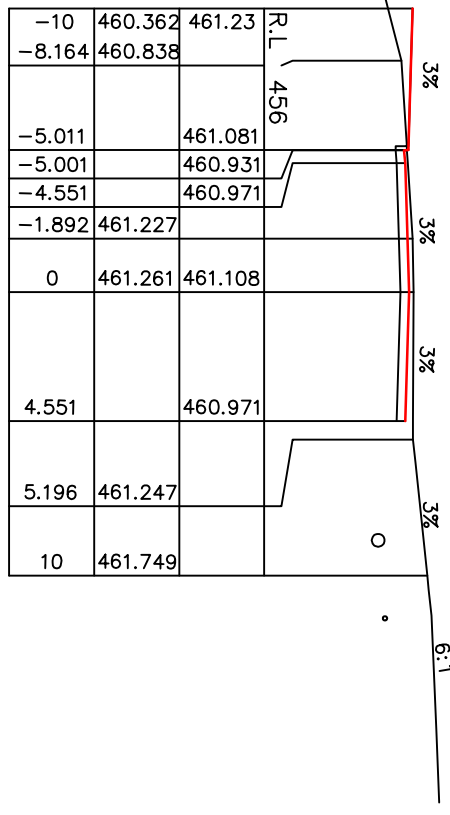
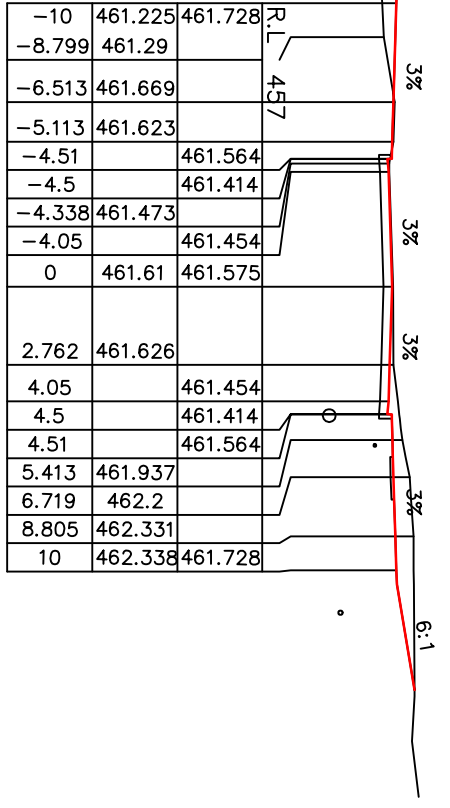
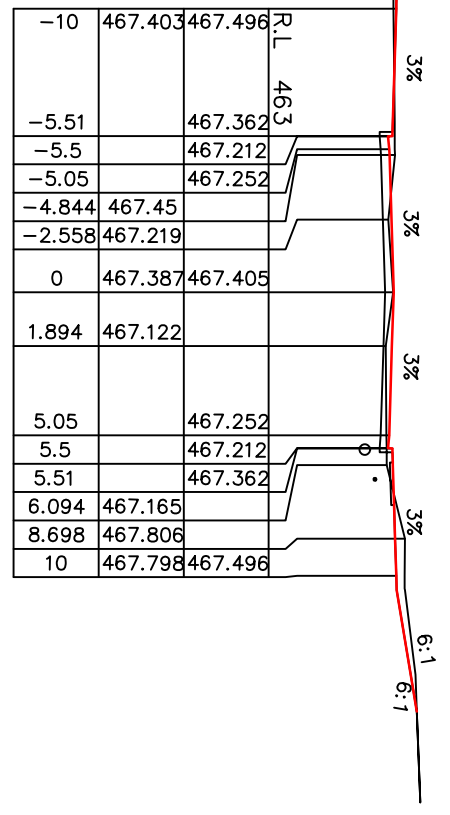
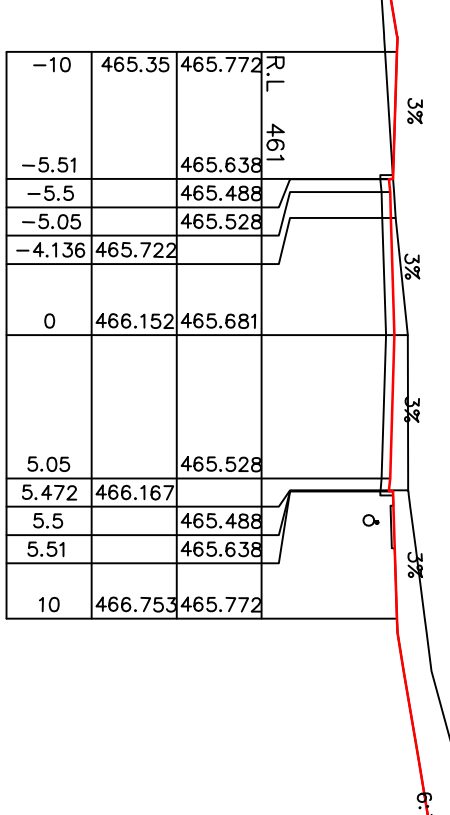
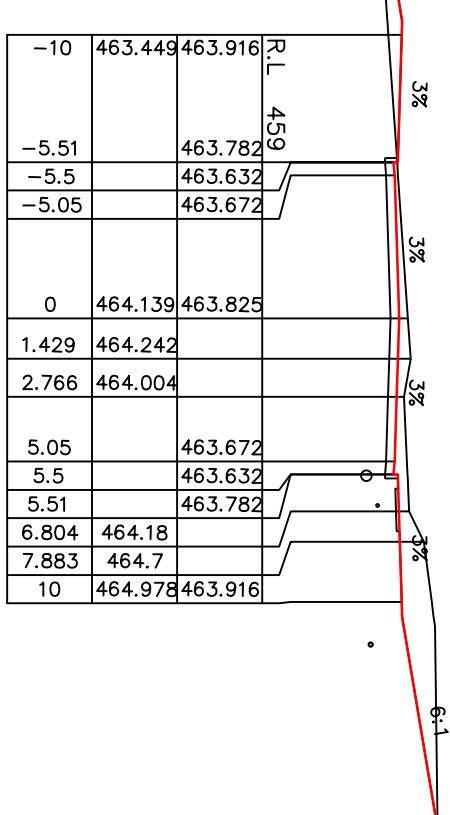
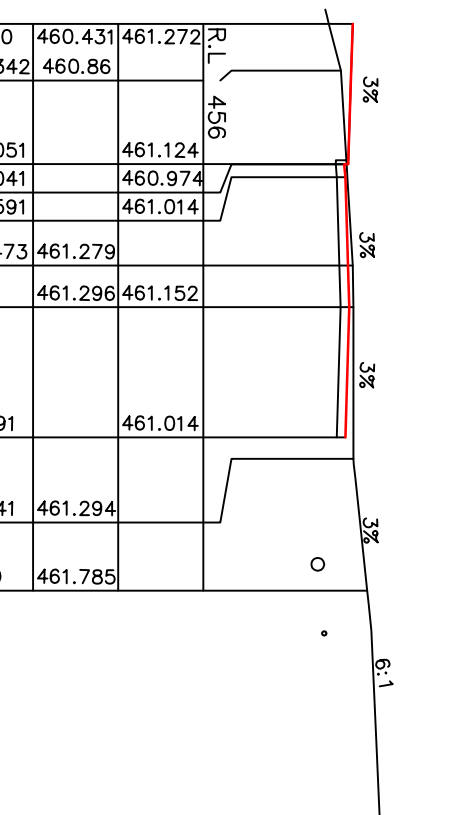
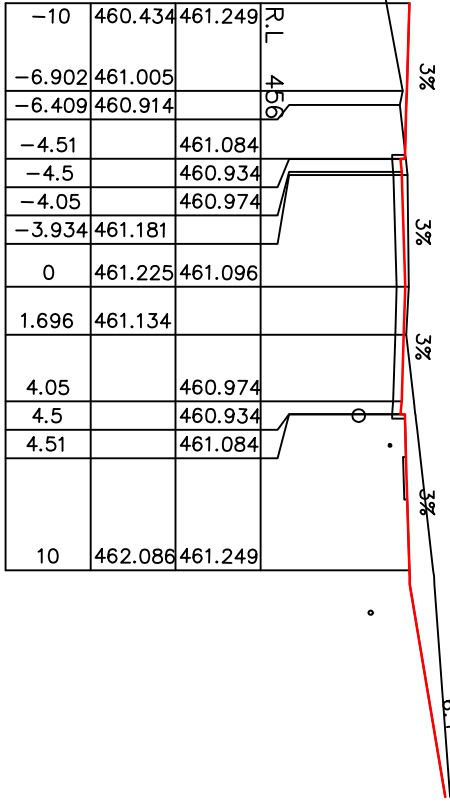
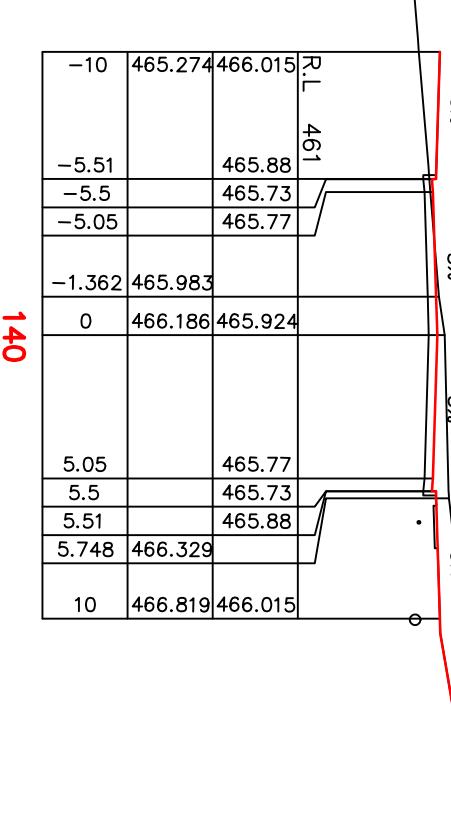
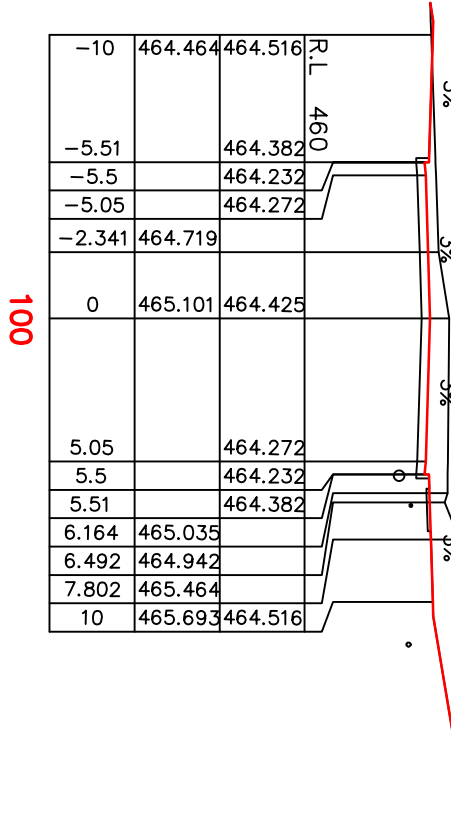
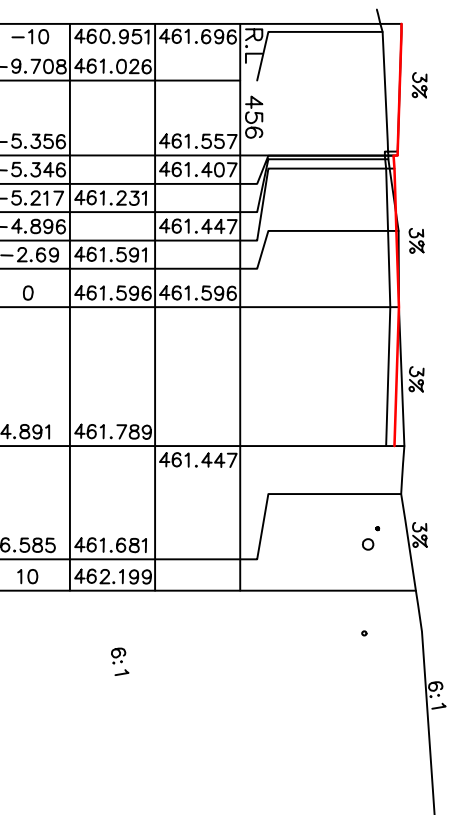
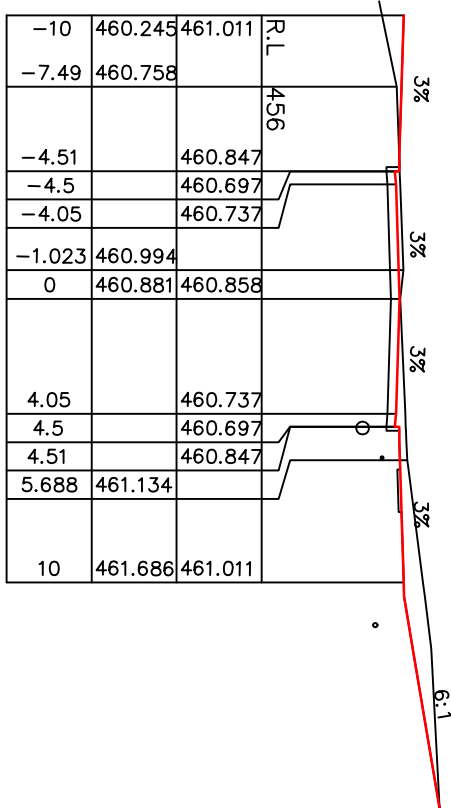
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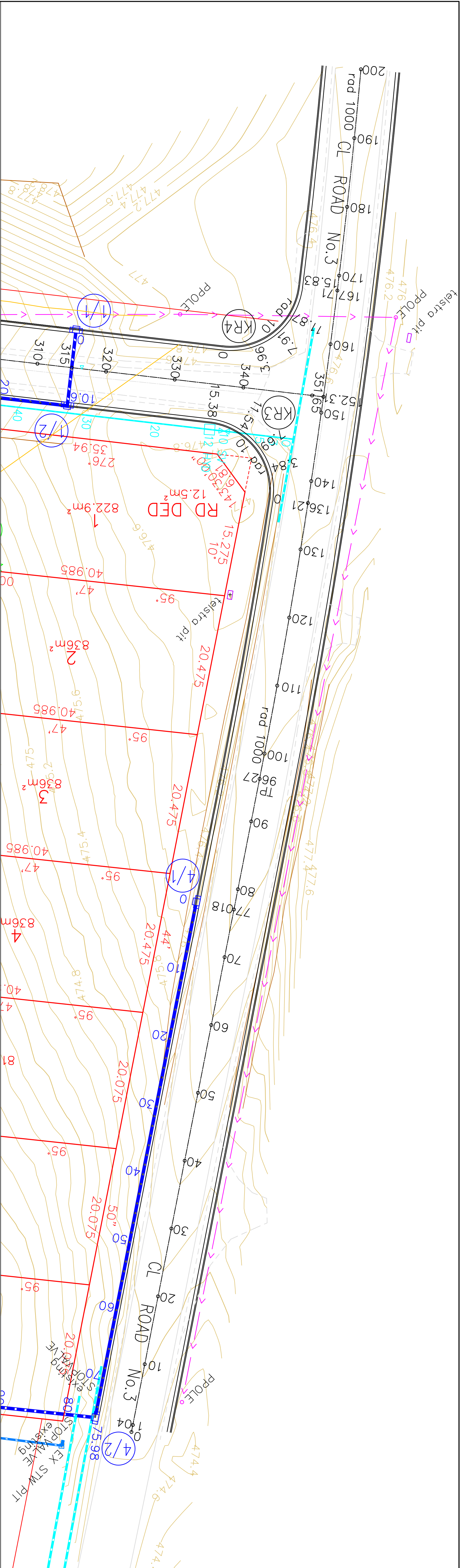
SHEET

A1



		I HEREBY CERTIFY THAT ENGINEERING WORKS SHOWN ON THIS PLAN HAVE BEEN PREPARED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS.			
D	variation to storm water design: retain existing pipe 1/11 - 1/13	3rd Feb. 2025	DATE	CHECKED	JRM
C	Primary Engineering	11/09/2024	DRAWN	APPROVED	
B	Revised layout	17/07/2024	W/C		
A	Concept Design	02/07/2024	DESIGNED	SCALE	SHEET
ISSUE	AMENDMENT	DATE	W/C	1:200	A1
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 North  GOULBURN: 4823 5100 YOUNG: 6382 1501 THE LAND CONSULTANT SPECIALISTS www.sprland.com.au					
SHEET SUBJECT			PROJECT		
ROAD 1 LONG SECTION			PROPOSED 25 LOT RESIDENTIAL SUBDIVISION 86 BACK CREEK ROAD DP 754611		
CLIENT	ISSUE	PROJECT NO.	SHEET NO.	SHEET	
GUS BARAKAT	D	40250	3 of 19	A1	

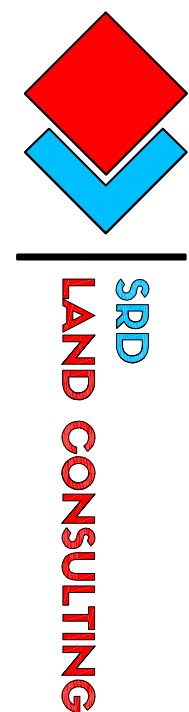
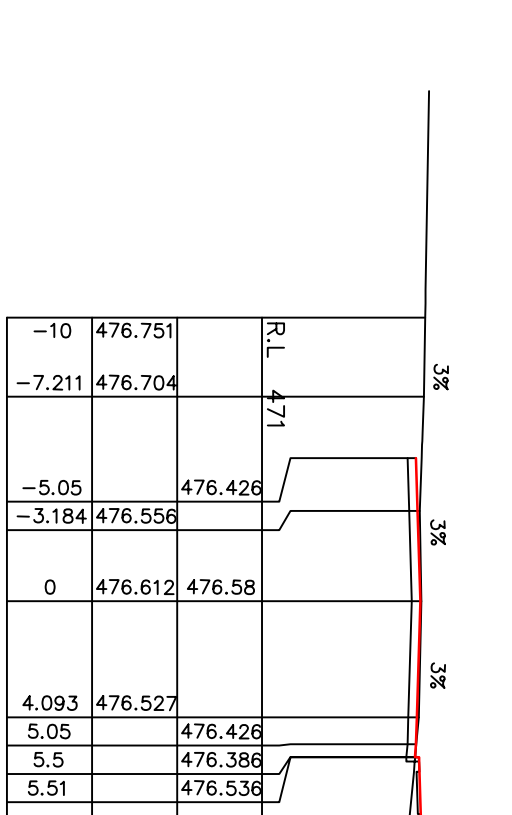
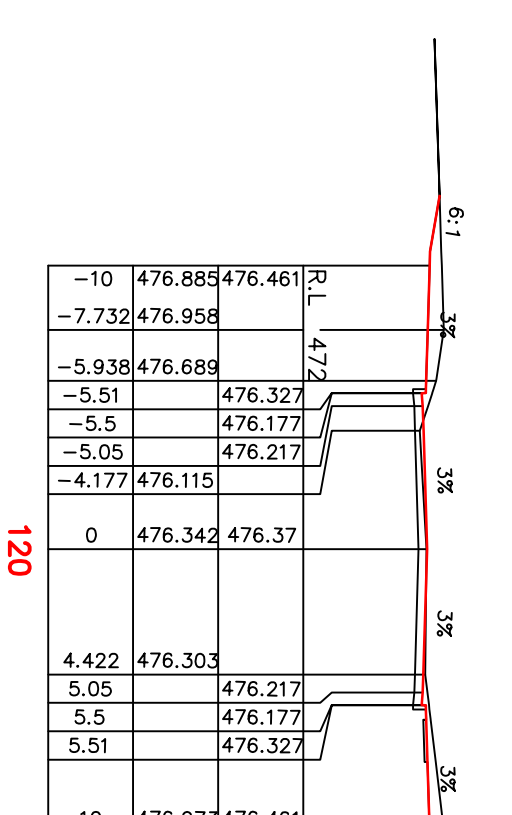
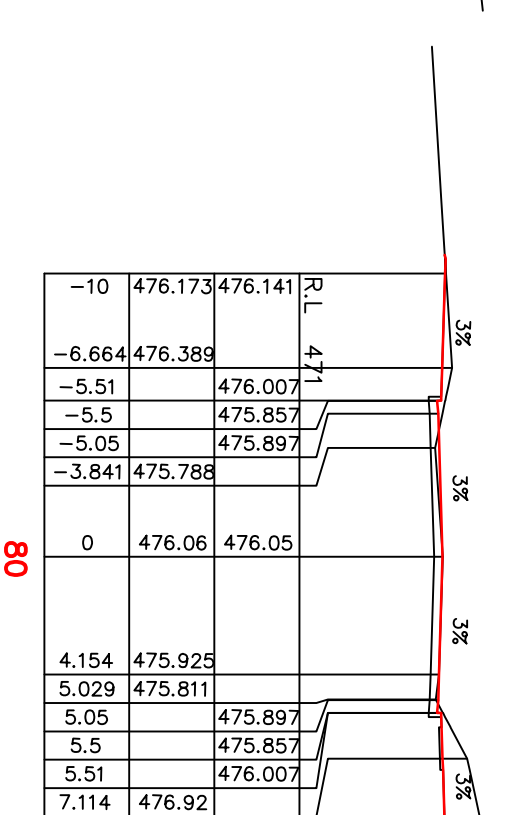
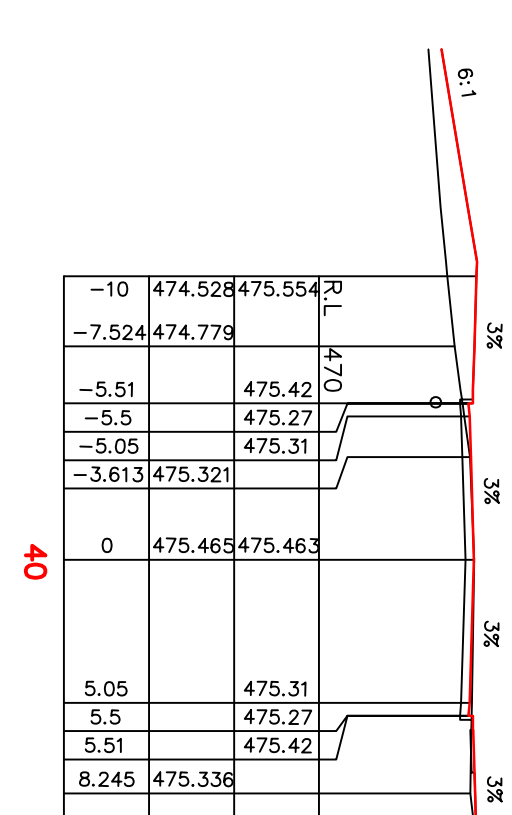
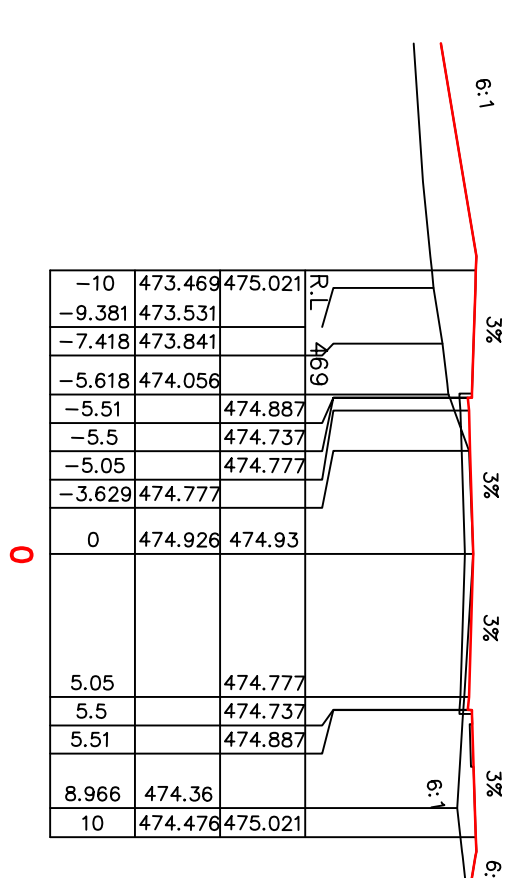
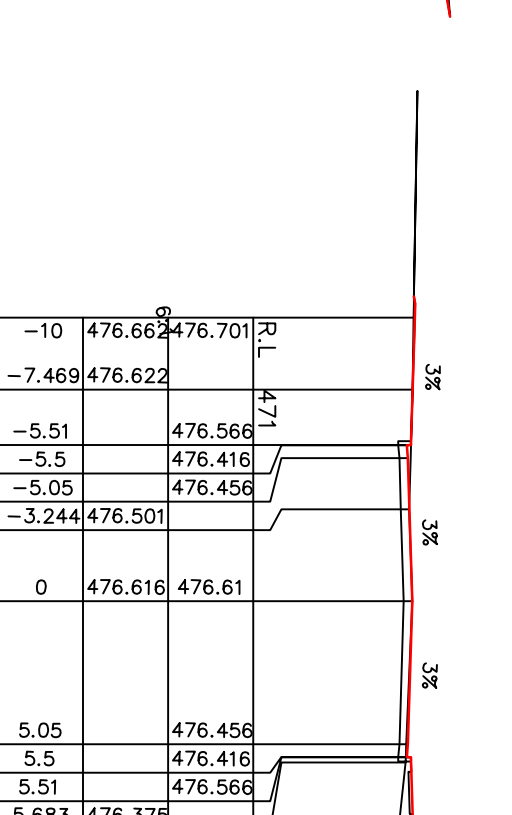
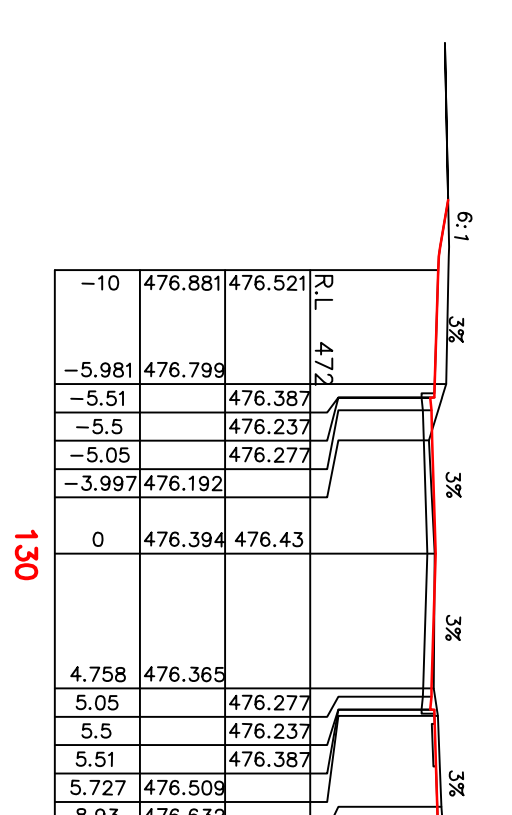
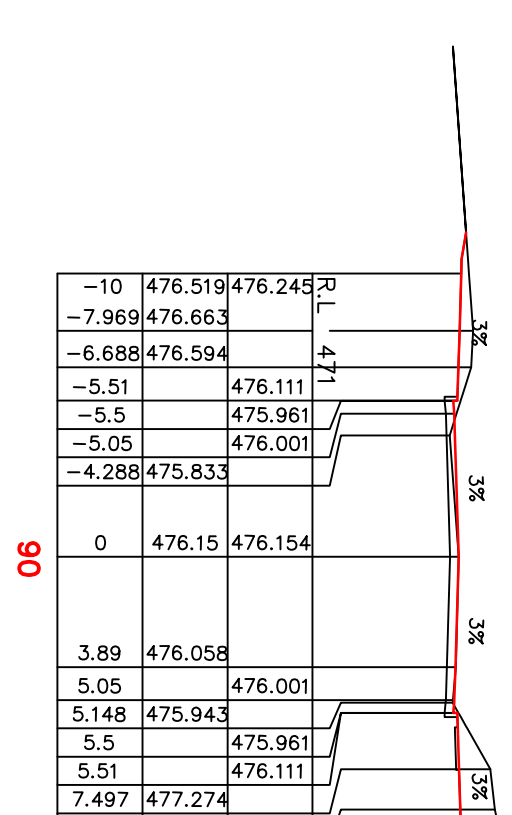
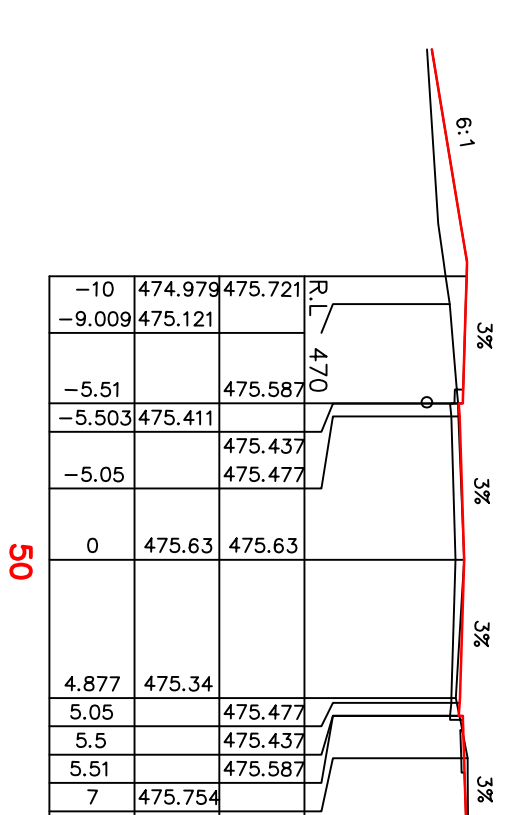
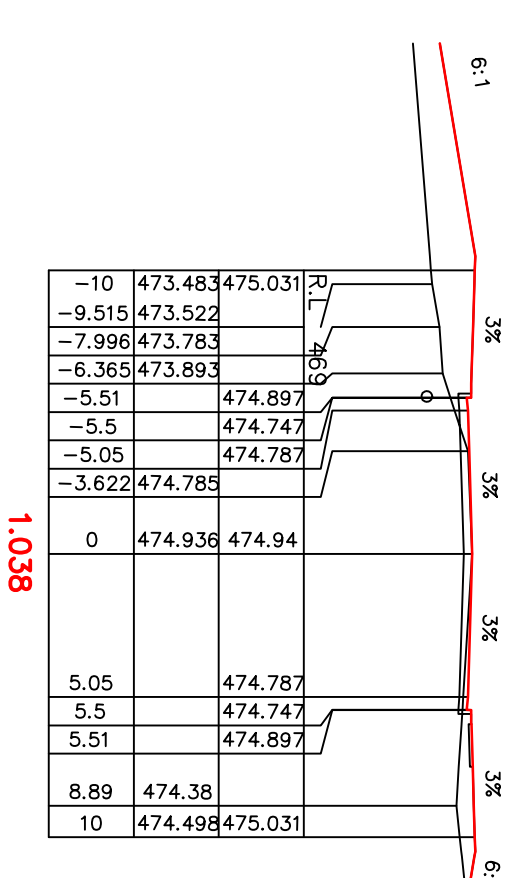
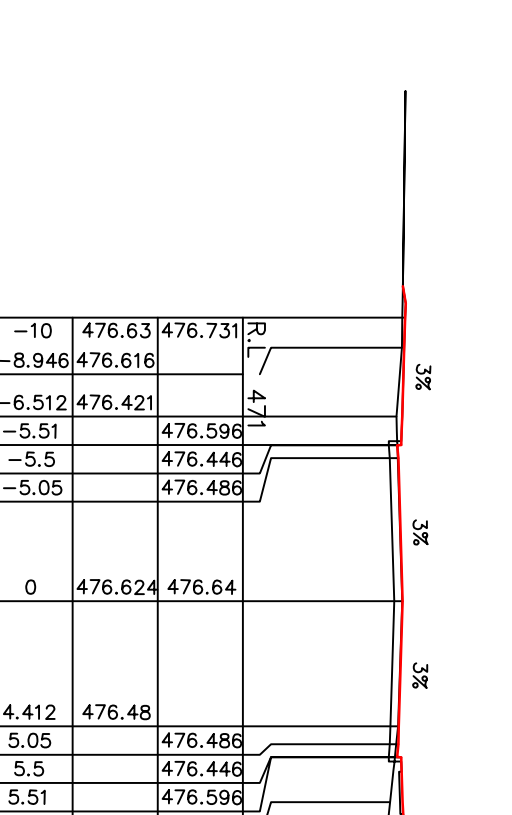
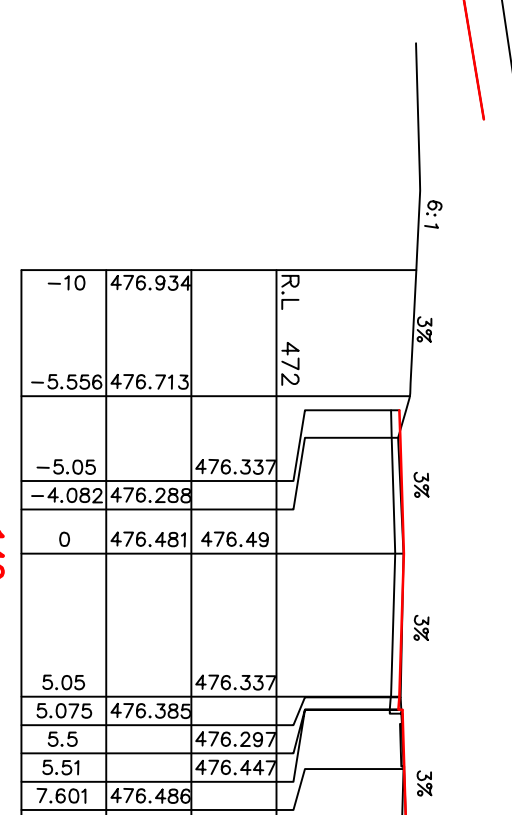
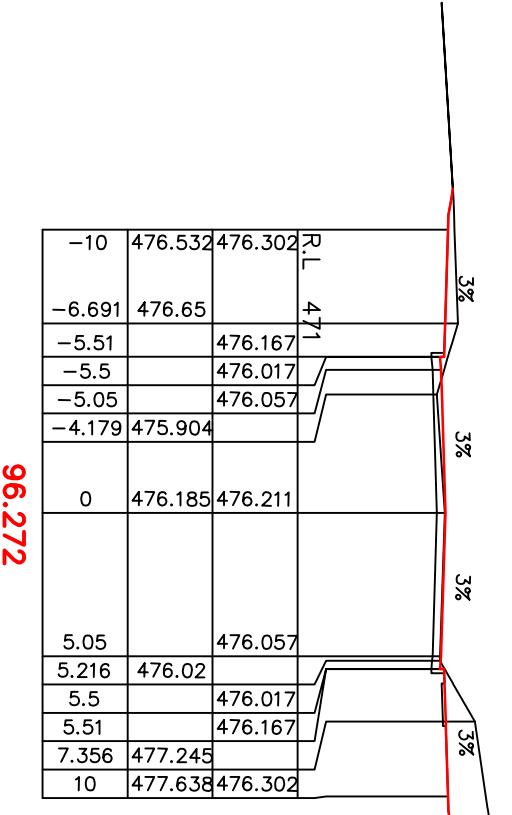
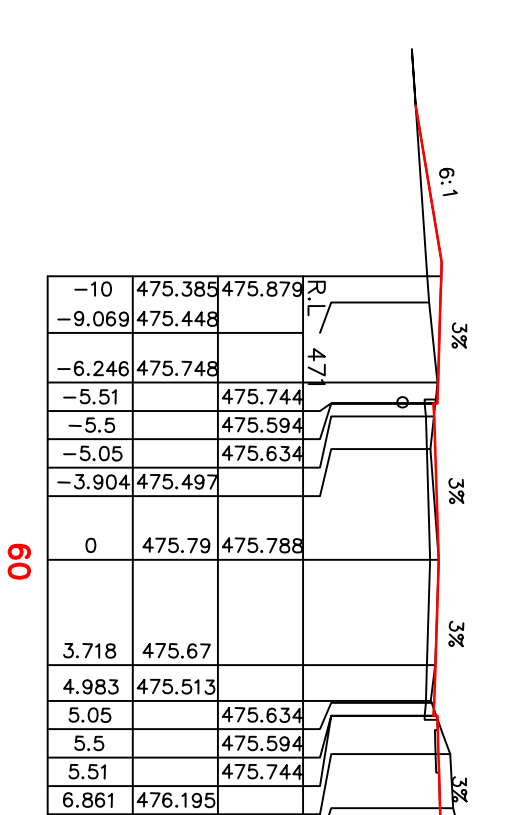
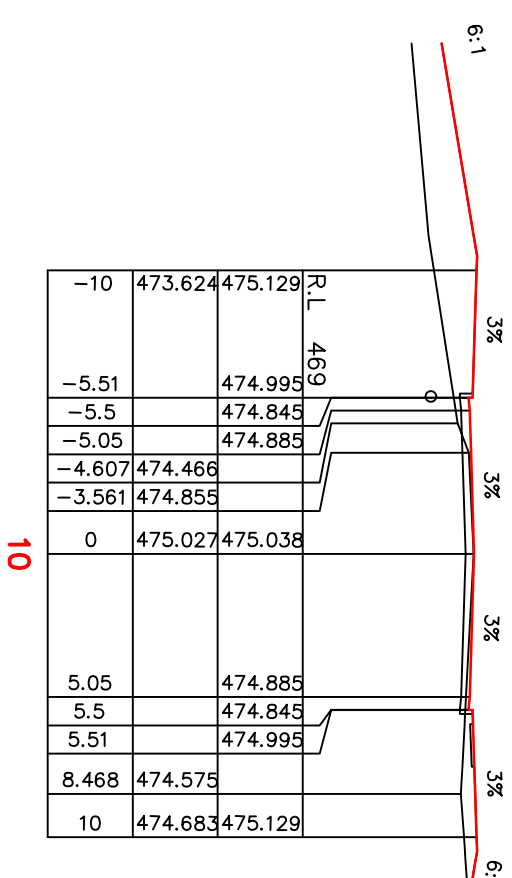
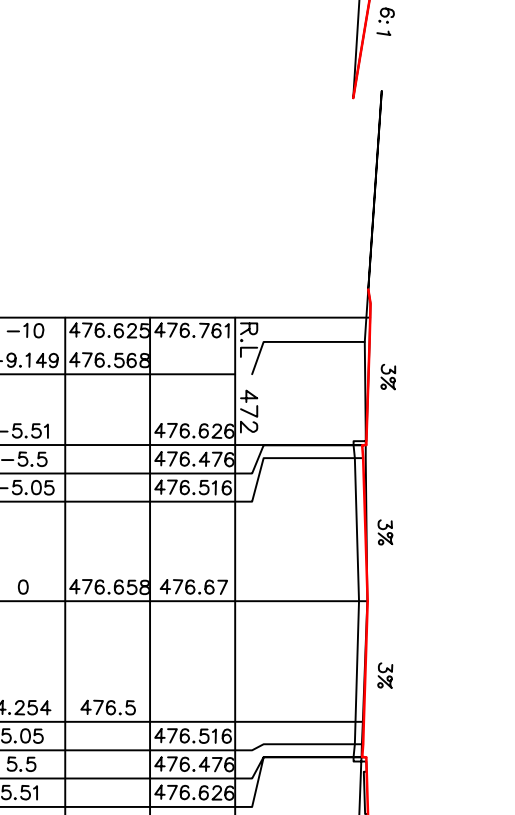
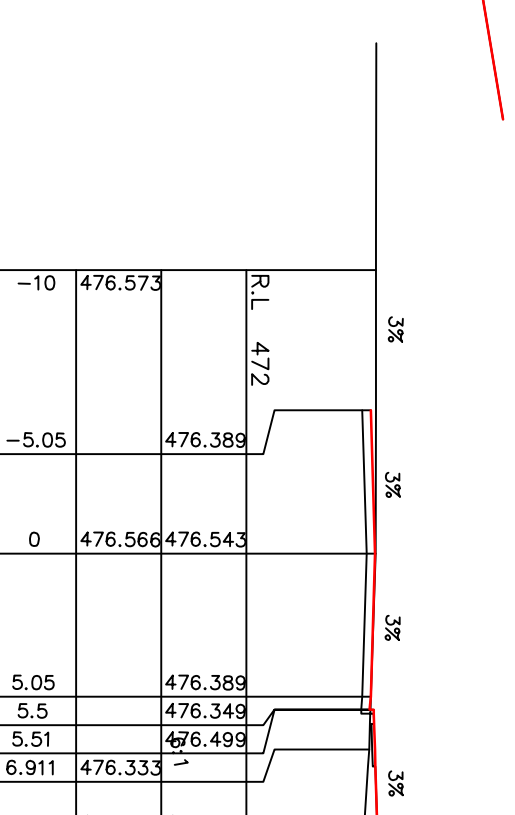
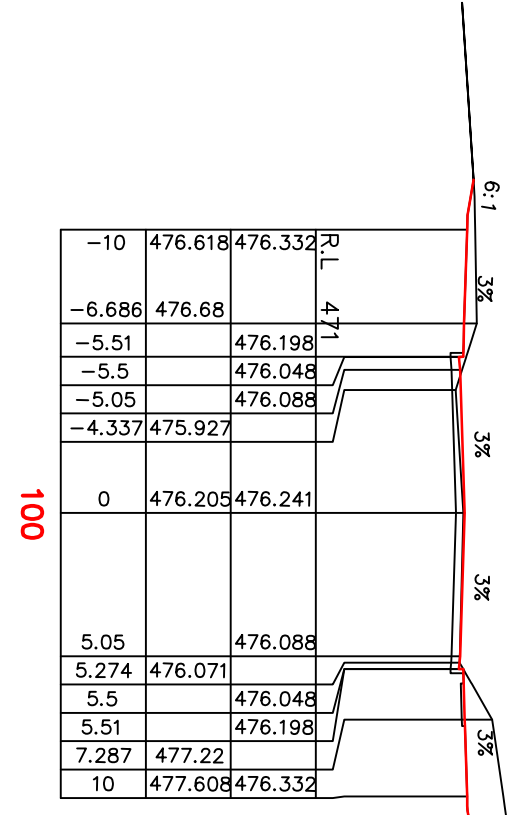
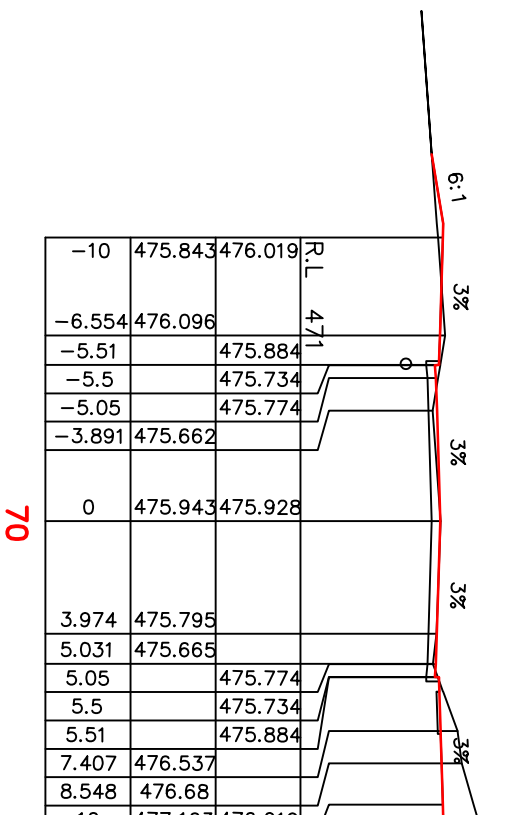
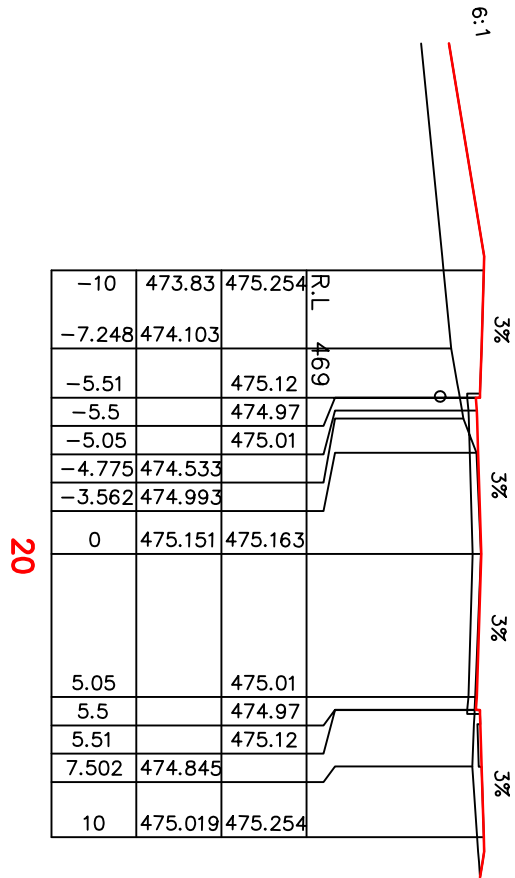
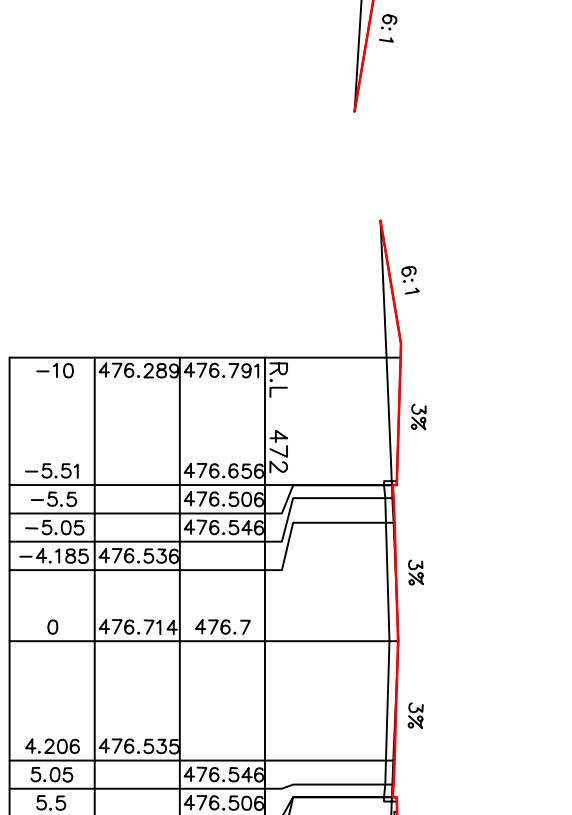
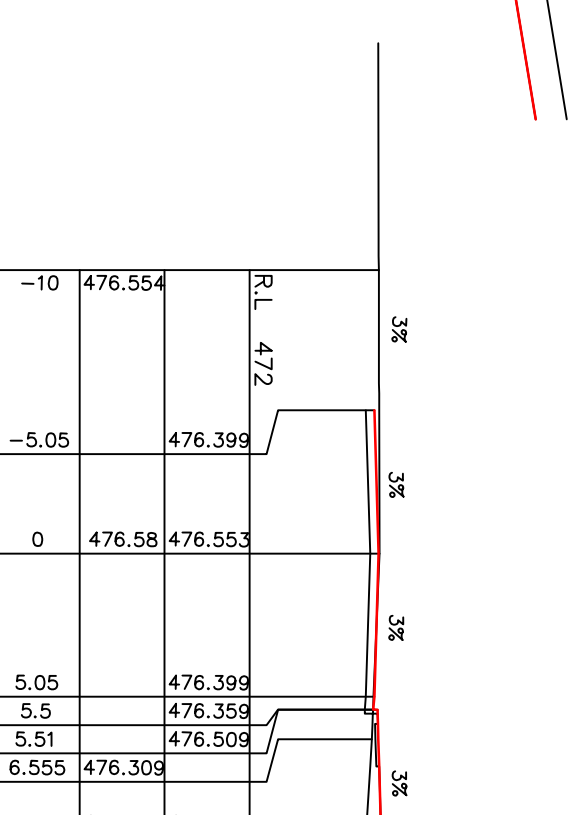
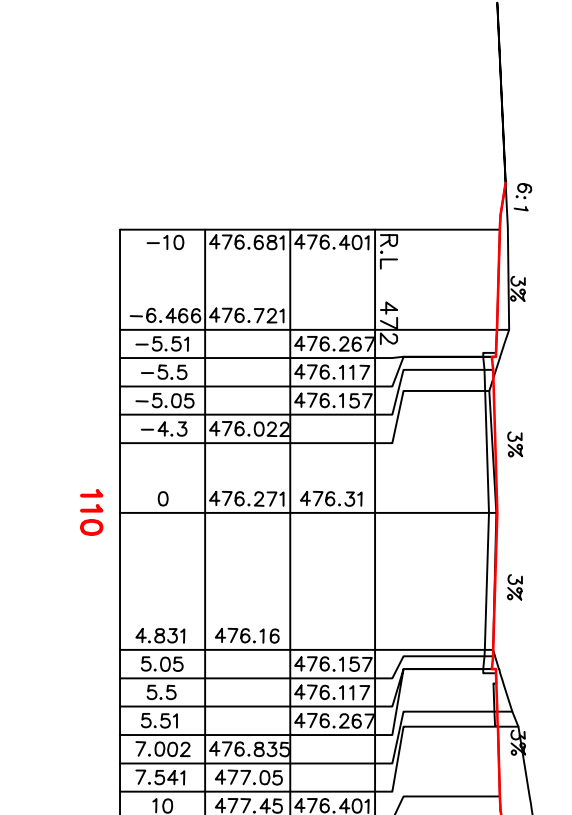
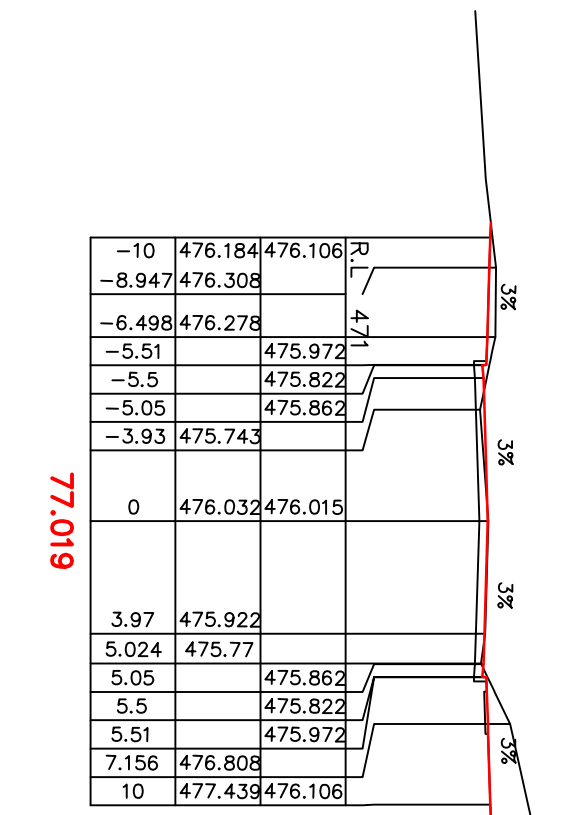
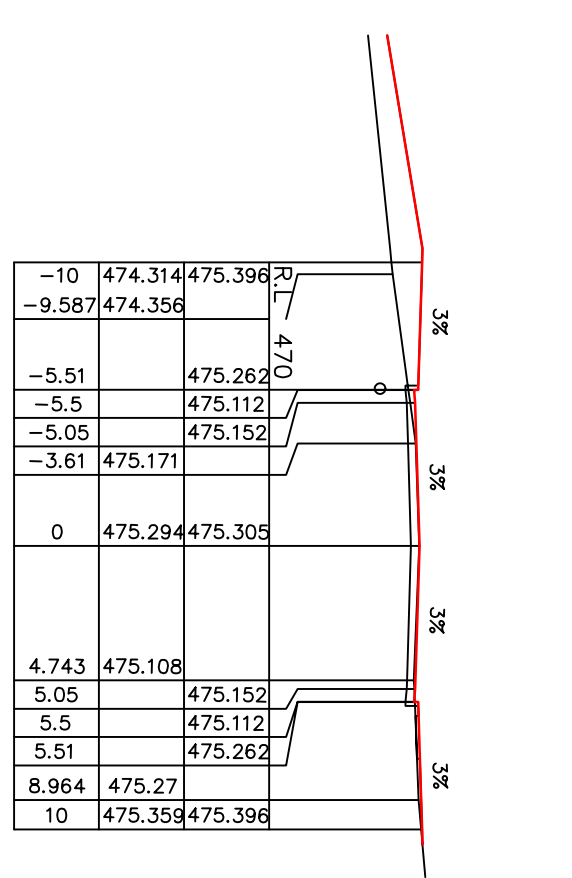




CHAINAGE	DESIGN LEVEL	EXISTING LEVEL	DESIGN LEVEL	20	23	26	31	35	45	62	56	96	232	206	1077	883	75	63	50	7	35	68	88	64	43	I.P. 474.930	I.P. 475.130	I.P. 476.130	I.P. 476.550	I.P. 476.700
0	474.926	474.93	474.93	(0.004)	(0.004)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
1.038	474.936	474.94	474.94	(0.004)	(0.004)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
10	475.027	475.038	475.038	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
20	475.151	475.163	475.163	(0.012)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
30	475.294	475.305	475.305	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
40	475.465	475.463	475.463	(0.002)	(0.002)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
50	475.63	475.63	475.63	(0.00)	(0.00)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
60	475.79	475.788	475.788	(0.002)	(0.002)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
70	475.943	475.928	475.928	(0.015)	(0.015)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
77.019	476.032	476.015	476.015	(0.017)	(0.017)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
80	476.06	476.05	476.05	(0.01)	(0.01)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
90	476.15	476.154	476.154	(0.004)	(0.004)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
96.272	476.185	476.211	476.211	(0.026)	(0.026)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
100	476.205	476.241	476.241	(0.036)	(0.036)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
110	476.271	476.31	476.31	(0.039)	(0.039)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
120	476.342	476.37	476.37	(0.028)	(0.028)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
130	476.394	476.43	476.43	(0.036)	(0.036)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
140	476.481	476.49	476.49	(0.009)	(0.009)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
150	476.566	476.543	476.543	(0.023)	(0.023)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
152.313	476.58	476.553	476.553	(0.027)	(0.027)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
160	476.612	476.58	476.58	(0.032)	(0.032)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
170	476.616	476.61	476.61	(0.006)	(0.006)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
180	476.624	476.64	476.64	(0.016)	(0.016)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
190	476.658	476.67	476.67	(0.012)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)
200	476.714	476.7	476.7	(0.014)	(0.014)	(0.011)	(0.012)	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)

ROAD No. 3
H=1:500 V=1:100

		DATE		CHECKED		M.G.A. MERIDIAN SRD LAND CONSULTING GOULBURN: 4823 5100 YOUNG: 6382 1501 THE LAND CONSULTANT SPECIALISTS www.srdland.com.au		SHEET SUBJECT ROAD 3 LONG SECTION		PROJECT PROPOSED 25 LOT RESIDENTIAL SUBDIVISION 86 BACK CREEK ROAD DP 754611													
D	variation to storm water design: retain existing pipe 1/11 - 1/15	3rd Feb. 2025		JRM																			
C	Preliminary Engineering	11/09/2024		APPROVED																			
B	Revised layout	17/07/2024																					
A	Concept Design	02/07/2024		DESIGNED		SCALE						CLIENT GUS BARAKAT											
ISSUE	AMENDMENT	DATE		W/C		1:250																	
						A1																	

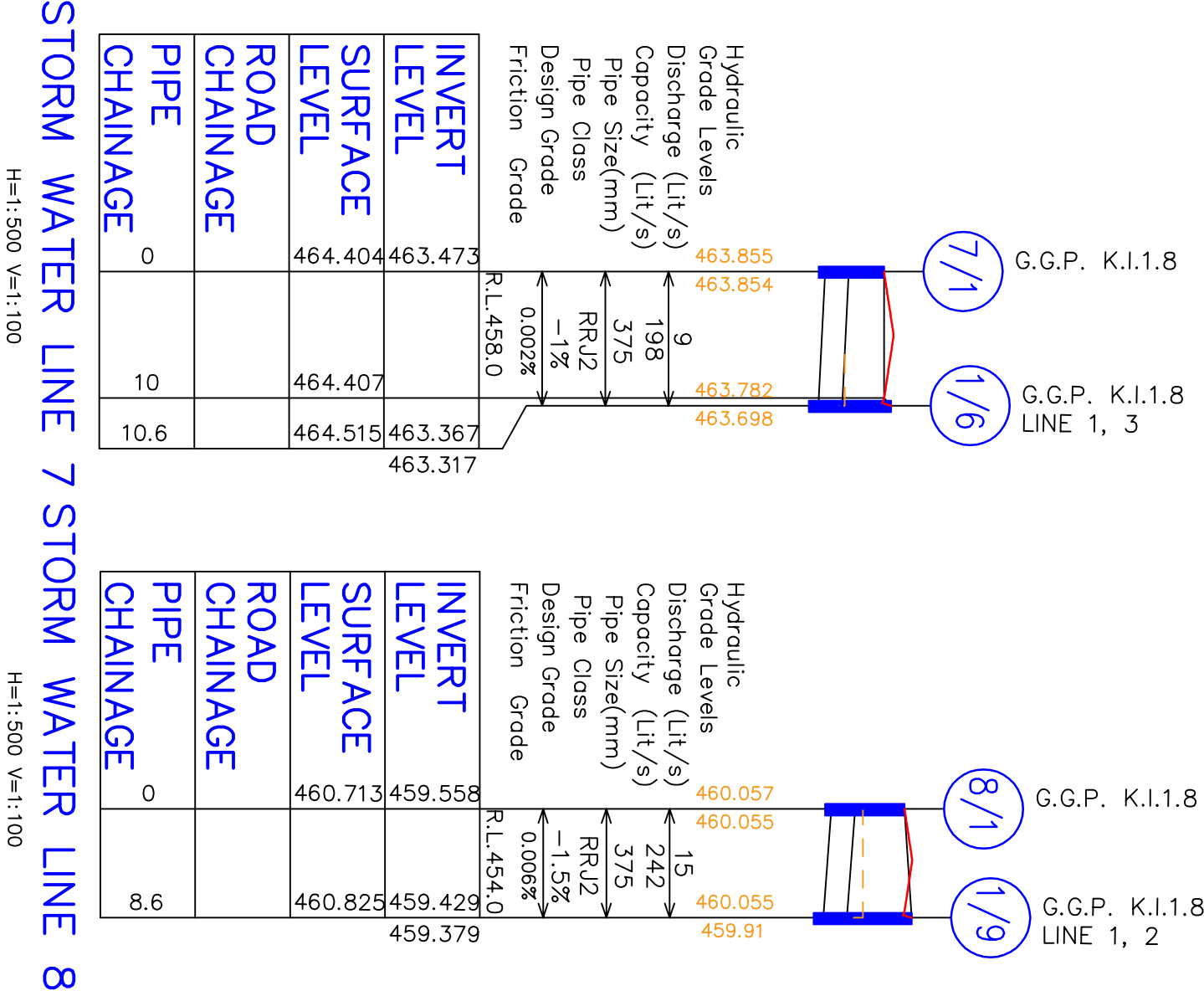
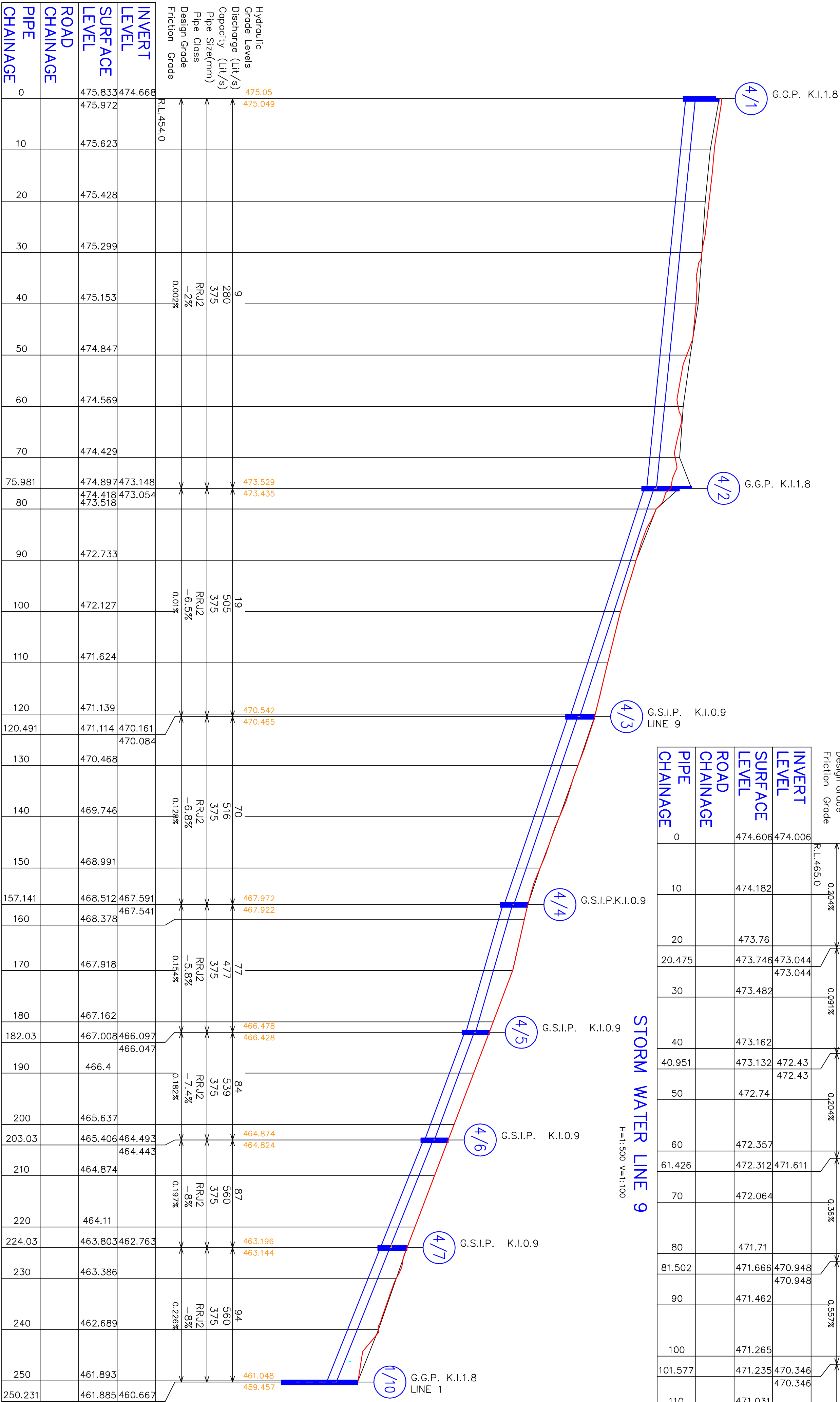
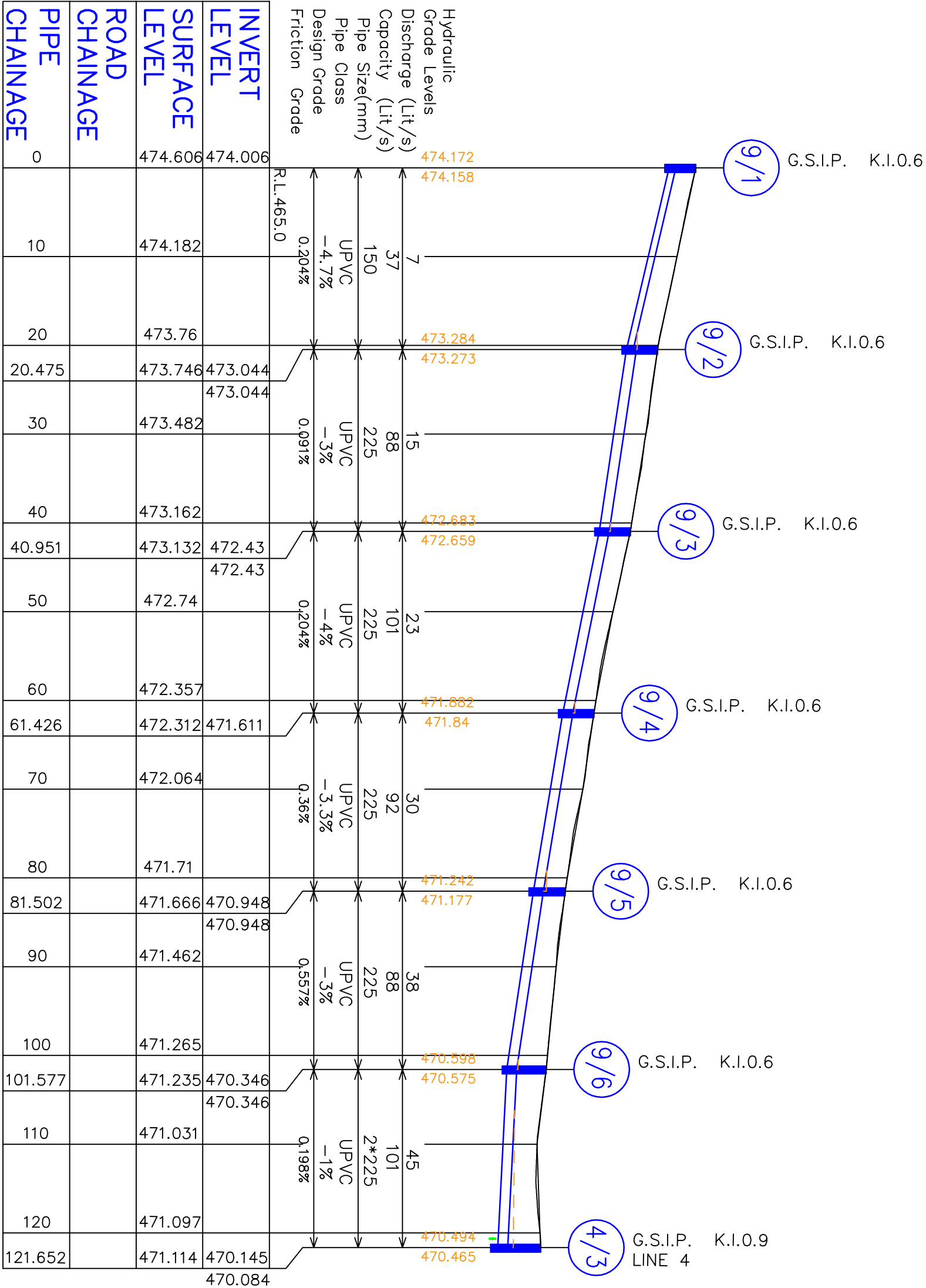
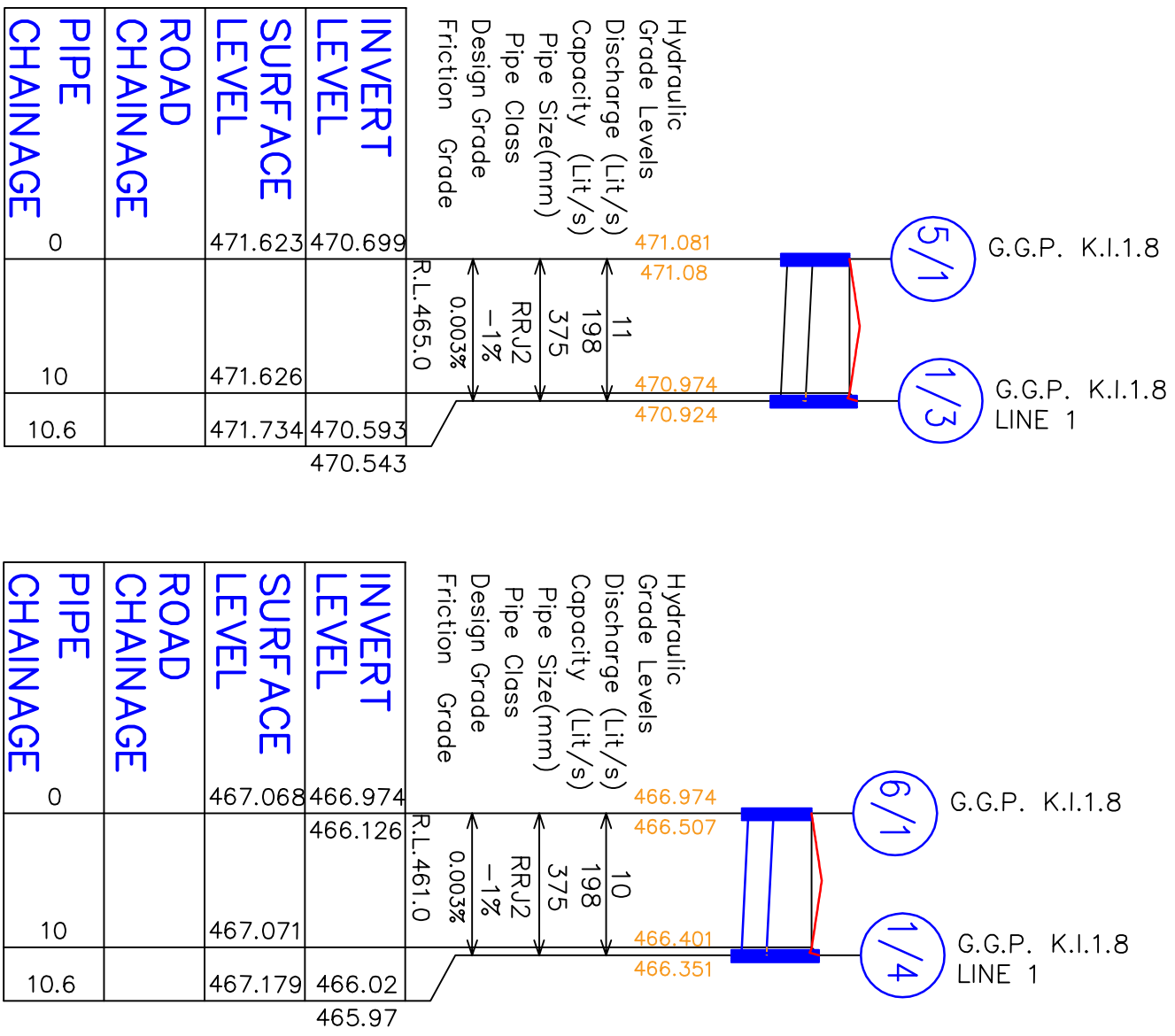


GOU BURN: 4823 5100 1 YOUNG: 6382 1501
THE LAND CONSULTANT SPECIALISTS
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SHEET SUBJECT
ROAD 3 CROSS SECTION

PROJECT
PROPOSED 25 LOT RESIDENTIAL SUBDIVISION
86 BACK CREEK ROAD DP 754611

D	variation to storm water design: retain existing pipe 1/11 - 1/13	3rd Feb. 2025
C	Preliminary Engineering	11/09/2024



0

revision to storm water design, retain existing pipe 1/11 - 1/13

3rd Feb. 2025

C

Preliminary Engineering

11/09/2024

B

Revised layout

17/07/2024

A

Concept Design

02/07/2024

ISSUE

AMENDMENT

I HEREBY CERTIFY THAT ENGINEERING WORKS SHOWN ON THIS PLAN ARE WORK-AS-EXECUTED AND HAVE BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE DIRECTOR, IN ACCORDANCE WITH THE GENERAL REQUIREMENTS

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DATE

3rd Feb. 2025

CHECKED

IRM

DATE

11/09/2024

APPROVED

DESIGNED

WJC

SCALE

1:500

SHEET

A1

North

M.G.A. MERIDIAN

GOU BURN: 4823 5100 1 YOUNG: 6382 1501

THE LAND CONSULTANT SPECIALISTS

WWW.SRD.LAND.COM.AU

CLIENT

CUS BARAKAT

PROJECT

PROPOSED 25 LOT RESIDENTIAL SUBDIVISION

86 BACK CREEK ROAD DP 754611

ISSUE

D

PROJECT NO.

40250

SHEET NO.

13

of

19

SHEET

A1

HYDROLOGICAL DESIGN SHEET

PIT	LAND USE	FLOW LENGTH	SLOPE	n	TIME	TIME	INTENSITY	CODE	COEFF	AREA	C.A	SUM AREA	Q	BY PASS	TOTAL FLOW	GUTTER SLOPE	FLOW WIDTH	PIT TYPE	LINTEL	INFLOW	BY FLOW	BY PIT	MIN TIME 5 MAX TIME 20 YOUNG	REMARKS
		m	%	min	min	mm/h	mm/h			ha	ha	ha	L/s	L/s	L/s	L/s	m		m	L/s	L/s			
5/1	1	70	5.6	0.010	3.124	90	9	0.950	0.039	0.037	0.024	0.061	15		15	5.6	0.696	GSEP	1.8	15		6/1		
6/1	2	6	3	0.045	7.024	10.1	20	4	0.595	0.040	0.024	0.061	15		15	6.2	0.622	GSEP	1.8	14		7/1		
7/1	1	34	4.3	0.010	2.989	90	9	0.950	0.020	0.019	0.056	14			14	6.2	0.622	GSEP	1.8	13		8/1		
3/1	2	45	7.7	0.045	11.386	10.2	20	4	0.583	0.036	0.033	0.052	13		13	4.3	0.682	GSEP	1.8	13		3/2		
3/2	2	45	9.5	0.045	10.917	10.9	20	4	0.584	0.087	0.051	0.051	12		12	3	0.735	GSEP	0.6	12		3/3		
3/3	2	45	10.8	0.045	10.641	10.6	20	4	0.588	0.087	0.051	0.051	13		13	3	0.764	GSEP	0.6	13		3/4		
3/4	2	45	8.9	0.045	11.061	11.1	20	4	0.582	0.087	0.051	0.051	12		12	3	0.747	GSEP	0.6	12		3/5		
3/5	2	45	6.5	0.045	11.778	11.8	20	4	0.573	0.087	0.050	0.05	12		12	3	0.719	GSEP	0.6	12		1/6		
3/6	3					5	20										9999	JP		ADP		1/6		
8/1	1	65	5.6	0.010	3.048	91	9	0.950	0.036	0.033					21	5.6	0.879	GSEP	1.8	21		1/11		
2/1	2	60	10.2	0.045	11.847	14	20	9	0.548	0.326	0.179	0.207	44		44	9	1.174	GSEP	1.8	44		1/7		
2/2	2	32	9	0.010	2.189	76	9	0.950	0.030	0.029	0.098	21			21	9	0.739	GSEP	1.8	21		2/3		
2/3	1	56	6.3	0.010	2.833	93	9	0.950	0.025	0.024	0.042	11			11	6.3	0.419	GSEP	1.8	11		1/8		
9/1	2	45	5.8	0.045	12.050	12	20	4	0.570	0.084	0.048	0.048	11		11	3	0.69	GSEP	0.6	11		9/2		
9/2	2	45	7.1	0.045	11.572	11.6	20	4	0.575	0.084	0.048	0.048	11		11	3	0.707	GSEP	0.6	11		9/3		
9/3	2	45	7.7	0.045	11.386	11.4	20	4	0.578	0.084	0.049	0.049	12		12	3	0.715	GSEP	0.6	12		9/4		
9/4	2	45	8.3	0.045	11.216	11.2	20	4	0.580	0.084	0.049	0.049	12		12	3	0.721	GSEP	0.6	12		9/5		
9/5	2	45	7.6	0.045	11.416	11.4	20	4	0.577	0.084	0.048	0.048	11		11	3	0.713	GSEP	0.6	11		9/6		
9/6	2	45	6.6	0.045	11.742	11.7	20	4	0.573	0.084	0.048	0.048	11		11	3	0.702	GSEP	0.6	11		4/3		
4/1	1	70	0.8	0.010	4.611	86	9	0.950	0.040	0.038	0.052	12			12	0.8	1.137	GSEP	1.8	12		4/2		
4/2	1	74	1.4	0.010	4.2	88	9	0.950	0.040	0.038	0.06	15			15	1.4	1.071	GSEP	1.8	15		4/3		
4/3	2	45	5.9	0.045	12.009	12	20	4	0.570	0.082	0.047	0.047	11		11	3	0.676	GSEP	0.9	11		4/4		
4/4	2	38	6.7	0.045	11.066	11.1	20	4	0.582	0.082	0.048	0.048	11		11	3	0.713	GSEP	0.9	11		4/5		
4/5	2	38	4.7	0.045	11.879	11.9	20	4	0.572	0.082	0.047	0.047	11		11	3	0.682	GSEP	0.9	11		4/6		
4/6	2	43	2	0.045	14.685	75	4	0.542	0.082	0.044	0.044	9			9	3	0.582	GSEP	0.9	9		4/7		
4/7	2	43	3	0.045	13.541	78	4	0.553	0.082	0.045	0.045	10			10	3	0.622	GSEP	0.9	10		1/10		
1/1	1	83	1.5	0.010	4.304	86	9	0.950	0.050	0.048	0.061	14			14	1.5	1.043	GSEP	1.8	14		5/1		
1/2	2	6	3	0.045	7.024	11.3	20	9	0.578	0.023	0.013	0.061	14											
1/3	2	6	3	0.045	7.024	10	20	4	0.596	0.019	0.019	0.029	7		7	2.1	0.532	GSEP	1.8	7		1/3		
1/4	1	74	6.2	0.010	3.119	90	9	0.950	0.039	0.037	0.059	15			15	5.6	0.674	GSEP	1.8	15		1/4		
1/5	2	6	3	0.045	7.024	10.1	20	9	0.585	0.034	0.020	0.057	14		14	6.2	0.629	GSEP	1.8	14		1/5		
1/6	2	45	8.1	0.045	11.271	13.8	20	4	0.551	0.087	0.048	0.067	14		14	4	0.76	GSEP	1.8	14		1/6		
1/7	1	32	4	0.010	2.574	77	9	0.950	0.018	0.017	0.067	14			14	4	0.762	GSEP	1.8	14		1/7		
1/8	2	46	8.5	0.045	11.245	13.8	20	9	0.550	0.091	0.050	0.067	14		14	4	0.762	GSEP	1.8	14		1/9		
1/9	1	65	2.7	0.010	3.527	74	9	0.950	0.032	0.030	0.154	32			32	6.2	1.096	GSEP	1.8	32		1/9		
1/10	2	46	7	0.045	11.690	15.2	20	4	0.537	0.109	0.059	0.098	18		18	2.7	1.004	GSEP	1.8	18		1/10		
1/11	2	36	3	0.010	3.533	89	9	0.950	0.016	0.015	0.026	6			6	1	0.702	GSEP	1.8	6		1/11		
1/12	2	6	3	0.045	7.024	10.6	20	9	0.950	0.032	0.030	0.042	11		11	2.7	0.696	GSEP	1.8	11		1/13		
1/12	3					5	108										9999	JP		ADP		1/13		

HYDRAULIC DESIGN SHEET

PIT	TIME	INTENSITY	AREAS	FLOW	LENGTH	DIAMETER	GRADE	H.G.L.GRADE	VEL	Q/A	K	HEAD LOSS	VEL CAP	PIPE VEL	PIPE CAP	PIPE TIME	C-C W. N=MANNINGS MAX TIME 20 YOUNG BY PASS=Q AREA=SUM C REMARKS	
	min	mm/hr	ha	L/s	m	mm	%	%	m/s			m	m/s	m/s	L/s	min		
LINE 5 5/1-1/3	10.1	90 20Y	0.061	15	10.6 NO.012	381	1	0.006	0.134	1.5	0.001	1.738	1.03	198	0.17			
LINE 6 6/1-1/4	10.1	90 20Y	0.056	14	10.6 NO.012	381	1	0.005	0.124	1.5	0.001	1.738	1.01	198	0.17			
LINE 7 7/1-1/6	10.2	89 20Y	0.052	13	10.6 NO.012	381	1	0.004	0.114	1.5	0.001	1.738	0.98	198	0.18			
LINE 3 3/1-3/2	11.4	85 20Y	0.05	12	21 NO.012	152	10	0.487	0.657	1.5	0.033	2.979	2.39	54	0.15			
3/2-3/3	11.5	84 20Y	0.101	24	21 NO.012	229	9	0.218	0.578	1.5	0.026	3.714	2.7	153	0.13			
3/3-3/4	11.7	84 20Y	0.152	36	NO.012	229	4.4	0.49	0.866	1.5	0.057	2.597	2.33	107	0.15			
3/4-3/5	11.8	83 20Y	0.203	47	21 NO.012	229	3.1	0.859	1.147	1.5	0.101	2.179	2.2	90	0.16			
3/5-3/6	12	83 20Y	0.253	58	36 NO.012	229	6	1.315	1.42	1.5	0.154	3.032	2.98	125	0.2			
3/6-1/6	12.2	82 20Y	0.253	58	6.366 NO.012	229	2	1.293	1.408	1.5	0.152	1.751	1.94	72	0.05			
LINE 8 8/1-1/9	10.1	90 20Y	0.084	21	8.6 NO.012	381	1.5	0.011	0.184	1.5	0.003	2.129	1.3	243	0.11			
LINE 2 2/1-2/2	14	76 20Y	0.207	44	8.9 NO.012	381	1.5	0.05	0.388	1.5	0.012	2.129	1.62	243	0.09			
2/2-2/3	14.1	76 20Y	0.305	65	54.357 NO.012	381	7	0.107	0.569	1.5	0.025	4.598	3.11	524	0.29			
2/3-1/9	14.4	20Y	0.347	73	15.728 NO.012	381	1	0.136	0.64	1.5	0.031	1.738	1.6	198	0.16			
LINE 9 9/1-9/2	12	83 20Y	0.048	11	20.475 NO.012	152	4.7	0.417	0.608	1.5	0.028	2.042	1.78	37	0.19			
9/2-9/3	12.2	81 20Y	0.096	22	20.475 NO.012	229	3	0.186	0.534	1.5	0.022	2.144	1.77	88	0.19			
9/3-9/4	12.4	82 20Y	0.145	33	20.475 NO.012	229	4	0.415	0.798	1.5	0.049	2.476	2.2	102	0.16			
9/4-9/5	12.6	81 20Y	0.193	44	20.075 NO.012	229	3.3	0.733	1.06	1.5	0.086	2.249	2.21	93	0.15			
9/5-9/6	12.7	80 20Y	0.242	54	20.075 NO.012	229	3	1.132	1.317	1.5	0.133	2.144	2.25	88	0.15			
9/6-4/3	12.9	80 20Y	0.29	65	20.075 NO.012	229	2	1	0.402	0.785	1.5	0.047	1.238	1.3	102	0.26		
LINE 4 4/1-4/2	11.2	86 20Y	0.052	12	76.981 NO.012	381	2	0.004	0.109	1.5	0.001	2.458	1.25	280	1.01			
4/2-4/3	12.2	82 20Y	0.112	26	44.51 NO.012	381	6.5	0.017	0.225	1.5	0.004	4.431	2.31	505	0.32			
4/3-4/4	13.1	79 20Y	0.449	99	36.65 NO.012	381	6.8	0.25	0.869	1.5	0.058	4.532	3.5	517	0.17			
4/4-4/5	13.3	78 20Y	0.497	109	24.886 NO.012	381	5.8	0.302	0.965	1.5	0.07	4.186	3.38	477	0.12			
4/5-4/6	13.4	78 20Y	0.544	119	21 NO.012	381	7.4	0.358	1.04	1.5	0.083	4.728	3.8	539	0.09			
4/6-4/7	14.7	74 20Y	0.588	122	70 NO.012	381	8	0.382	1.074	1.5	0.088	4.916	3.92	560	0.09			
4/7-1/10	14.8	74 20Y	0.633	132	26.201 NO.012	381	8	0.441	1.154	1.5	0.102	4.916	4.01	560	0.11			
LINE 1 1/1-1/2	11.3	85 20Y	0.061	14	10.6 NO.012	381	1	0.005	0.127	1.5	0.001	1.738	1.01	198	0.17			
1/2-1/3	11.5	84 20Y	0.089	21	NO.012	381	5.4	0.011	0.185	1.5	0.003	4.039	2.05	460	0.61			
1/3-1/4	12.1	82 20Y	0.209	48	72.958 NO.012	381	6.2	0.059	0.422	1.5	0.014	4.328	2.73	493	0.45			
1/4-1/5	12.6	80 20Y	0.333	78	NO.012	381	6.3	0.135	0.639	1.5	0.031	4.362	2.7	497	0.13			
1/5-1/6	13.8	77 20Y	0.39	84	28.621 NO.012	381	3.8	0.179	0.756	1.5	0.041	3.368	2.7	386	0.18			
1/6-1/7	14	76 20Y	0.762	163	37.259 NO.012	381	6.6	0.676	1.429	1.5	0.156	4.465	3.97	509	0.16			
1/7-1/8	14.1	76 20Y	0.831	177	10.475 NO.012	381	7.9	0.796	1.55	1.5	0.184	4.885	4.33	557	0.04			
1/8-1/9	14.5	75 20Y	0.985	207	22.319 NO.012	457	2.2	0.413	1.261	1.5	0.122	2.91	2.8	477	0.13			
1/9-1/10	15.2	72 20Y	1.505	308	NO.012	457	4	0.914	1.875	1.5	0.289	1.962	2.23	322	0.25			
1/10-1/11	15.5	72 20Y	2.164	447	10.059 NO.012	457	4	1.859	2.675	1.5	0.548	3.924	4.22	644	0.21			
1/11-1/12	15.5	72 20Y	2.206	449	65.012 NO.012	457	6.5	1.926	2.723	1.5	0.568	5.002	5.11	821	0.04			
1/12-1/13	15.7	72 20Y	2.206	443	28.15 NO.012	457	10	1.898	2.703	1.5	0.559	6.205	5.98	1018	0.08			

