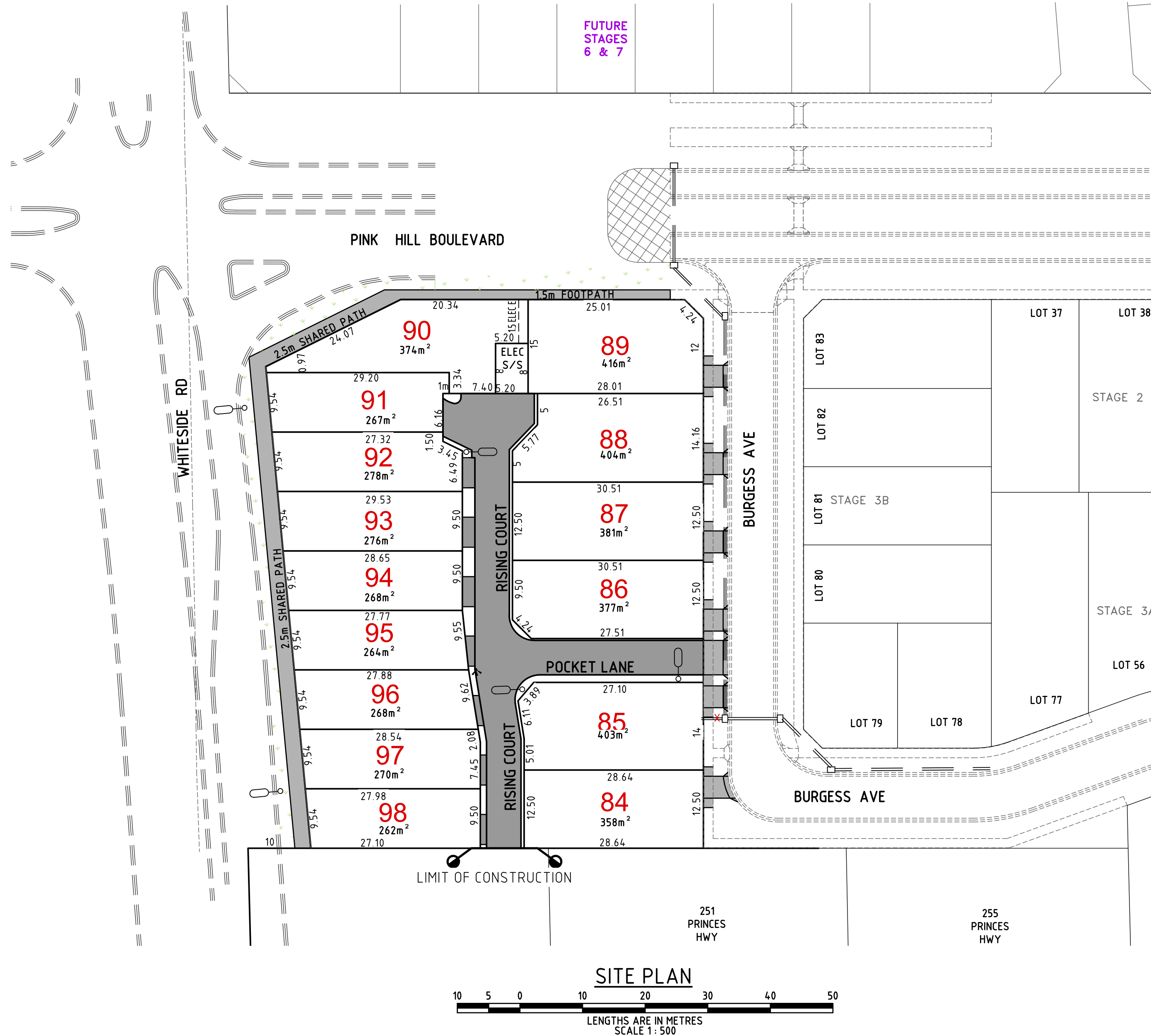


APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S18/099 T180149
 Sheet: 1 of 6
 Approved by: K. Robertson
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 26 February 2019

STAGE 5 - HERITAGE RISE 15 LOT SUBDIVISION

265 PRINCES HIGHWAY & 24 WHITESIDE ROAD, OFFICER
 CARDINIA SHIRE COUNCIL



LEGEND

- PROPOSED COUNCIL STORMWATER DRAIN & PIT
- EXISTING STORMWATER DRAIN & PIT
- PROPOSED HOUSE DRAINS
- PROPOSED AUTHORITY SEWER
- EXISTING SEWER
- EXISTING SEWER CHAMBER/SHAFT
- PROPOSED SEWER CHAMBER
- OVERLAND FLOW DIRECTION
- ELECTRICAL POLES WITH LIGHTS
- PROPOSED GAS
- PROPOSED TELECOM
- PROPOSED WATER
- PROPOSED RECYCLED WATER
- PROPOSED U/G ELECTRICITY
- EXISTING GAS
- EXISTING TELECOM
- EXISTING WATER
- EXISTING U/G ELECTRICITY

DRAWING INDEX

SHEET	DESCRIPTION
R01	FACE SHEET, LOCALITY PLAN & DRAWING INDEX
R02	SITE PLAN (SCALE 1:250) DETAILS, TYPICAL CROSS SECTIONS & SERVICES SCHEDULE
R03	RAISING COURT LONGITUDINAL SECTION AND CROSS SECTIONS
R04	POCKET LANE LONGITUDINAL SECTION AND CROSS SECTIONS
R05	DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE
R06	INTERSECTION SETOUT PLAN AND LIP PROFILES

GENERAL NOTES:

- ALL LEVELS ARE TO A.H.D.
- ALL CHAINAGES ARE ALONG CENTRELINE OF ROAD UNLESS OTHERWISE SHOWN.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT CARDINIA SHIRE COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE CARDINIA SHIRE COUNCIL SUPERVISING ENGINEER.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE APPROPRIATE PROTECTIVE AND PRECAUTIONARY MEASURES TO ENSURE THE SAFETY AND FREEDOM FROM INJURY, DAMAGE, OR INTERFERENCE OF ALL ADJACENT LANDS, PROPERTIES, WAYS, SERVICES AND OF PERSONS AT ANY TIME IN THE VICINITY OF THE SITE OF WORKS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF AND ANY DAMAGE TO EXISTING SERVICES, WHETHER SHOWN ON CONSTRUCTION PLANS OR NOT.
- THE CONTRACTOR SHALL NOTIFY COUNCIL'S ENGINEERING DEVELOPMENT COORDINATOR 5 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN (OTHERWISE APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVALS OFFICER)
- NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNED ON SITE.
- TOP SOIL SHALL BE STRIPPED AND STOCKPILED AND USED FOR TOP DRESSING EXCAVATED OR FILLED AREAS WITH A MINIMUM OF 75mm DEPTH.
- UNLESS OTHERWISE NOTED, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm UNDER ALL PAVEMENTS AND FILL AREAS. ALL ROOTS AND DECOMPOSABLE MATERIAL UNDER ROAD PAVEMENT SHALL BE REMOVED TO THE SATISFACTION OF THE INFRASTRUCTURE MANAGER. THE COSTS FOR SUCH WORK SHALL BE INCLUDED IN THE ITEM FOR EARTHWORKS IN THE SCHEDULE OF QUANTITIES.
- FILLING IN ALL PROPERTIES & ROAD RESERVES IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL & ALL VEGETABLE MATTER TO BE STRIPPED FROM SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAX. DRY DENSITY. ALL FILLING TO COMPLY WITH AS 3798-2007, SECTION 8.2, LEVEL 1. A FILL REPORT MUST BE SUBMITTED FROM A NATA REGISTERED SOIL TESTING LABORATORY.
- IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- DAMS TO BE LEVELLED PRIOR TO FILLING AND LEVELS SHOWN ON "AS CONSTRUCTED" PLANS.
- CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION.
- ALL EXCESS SPOIL SHALL BE DISPOSED OFF SITE OR AS DIRECTED BY THE ENGINEER. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED AS DIRECTED BY THE ENGINEER. SOFT SPOTS SHALL BE EXCAVATED TO A HARD BASE AND BACKFILLED WITH APPROVED GRANULAR MATERIAL IN 150mm LAYERS.
- ALL TRENCHES UNDER ROAD PAVEMENTS AND FOOTPATHS SHALL BE BACKFILLED WITH 20mm CLASS 2 F.C.R. COMPACTED IN 150mm MAXIMUM DEPTH LAYERS.
- BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO THE CHIEF MINING INSPECTOR, DEPARTMENT OF LABOUR, IN ACCORDANCE WITH THE MINES ACT - 1958 AS AMENDED.
- ALL CONCRETE WORKS TO HAVE 25 MPa STRENGTH AT 28 DAYS.
- ALL FOOTPATHS AND SHARED PEDESTRIAN-BICYCLE PATHS ARE TO BE 125MM THICK CONCRETE.
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS IN ACCORDANCE WITH AS1428 .
- CONCRETE IS TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200MM. DISTRIBUTION PITS ARE TO BE A MINIMUM OF 300MM FROM EDGE OF FOOTPATHS.
- 100mm DIA CLASS 400 PERFORATED PLASTIC A.G. DRAIN TO BE LAID ON A CLAY BASE (MIN. DEPTH 600mm BELOW KERB) ON BOTH SIDES OF THE STREET, TRENCH TO BE MINIMUM WIDTH OF 225mm AND BACKFILLED WITH CLEAN 7mm SCREENINGS.
- ALL DRAINAGE PIPES SHALL BE REINFORCED CONCRETE, CLASS "2" RUBBER RING JOINTED PIPES UNLESS OTHERWISE SHOWN.
- TERRA FIRMA OR FIBRE GLASS TYPE PIT LIDS ARE REQUIRED FOR ALL DRAINAGE PITS. ALL GRATED PIT LIDS ARE TO BE CLASS D TO COMPLY WITH AS3996-2006.
- ALL EASEMENT DRAINAGE PIPES SHALL BE OFFSET 1.0m FROM PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN. PROPERTY INLETS SHALL BE LOCATED 1.0m FROM LOW SIDE BOUNDARY AT A MINIMUM INVERT LEVEL DEPTH OF 500mm BELOW FINISHED SURFACE LEVELS AND FITTED WITH A GULLY BASIN.
- HOUSE CONNECTIONS TO KERB AND CHANNEL OR STREET DRAINAGE TO BE LOCATED 5.0m FROM LOW SIDE BOUNDARY.
- ALL LOTS SHALL BE GRADED AT 1 IN 100 MIN TOWARDS DRAINAGE POINT.
- SERVICE CONDUITS SHALL COMPRISE 50mm DIAMETER CLASS 12 UPVC PIPES EXTENDING 300mm BEHIND BACK OF KERB AND CHANNEL.
- TELECOMMUNICATION CONDUITS ARE TO BE FOR USE BY ANY TELEPHONE COMPANY.
- THERE MUST BE NO SERVICE OFFSETS BETWEEN OFFSET OF 2.5M & 3.5M TO ALLOW CLEAR SPACE IN NATURE STRIPS FOR TREES & POLES.
- 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 INFRASTRUCTURE MANAGER.
- ALL P.S.M. ARE TO BE INTERVISABLE. AT THE COMPLETION OF WORKS P.S.M. ARE TO BE LEVELLED. A.M.G. COORDINATES ESTABLISHED AND SKETCH PLANS PREPARED FOR REGISTRATION WITH THE OFFICE OF THE SURVEYOR GENERAL.
- THE CONTRACTOR IS RESPONSIBLE FOR DUST SUPPRESSION, EROSION CONTROL AND RETENTION OF STORMWATER RUNOFF DURING CONSTRUCTION.
- THE CONTRACTOR IS TO TAKE ALL NECESSARY MEASURES TO PREVENT POLLUTION AND / OR SEDIMENT LADEN RUNOFF FROM ENTERING THE DRAINAGE SYSTEM DURING CONSTRUCTION AND MAINTENANCE PERIODS, THIS WILL INCLUDE COVERING OF DRAINAGE PITS DURING CONSTRUCTION WITH GEOTEXTILE AND HAY BALES TO PRECLUDE SAND FROM ENTERING THE DRAINAGE SYSTEM, IN THE EVENT OF POLLUTION AND / OR SEDIMENT ENTERING THE DRAINAGE SYSTEM THE CONTRACTOR WILL BE REQUIRED TO RECTIFY THE DAMAGE AT HIS COST.
- APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT BY THE CONTRACTOR DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- APPROVAL WILL BE REQUIRED FROM THE CONSERVATION OFFICER FOR ALTERATION, REMOVAL OR EXCAVATION OF ANY SIGNIFICANT EXISTING FEATURES, BUILDINGS, STRUCTURES OR VEGETATION.
- ALL LINE MARKING TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- REFERENCE HOUSE DRAINS MARKED 'H' STENCILED ON FACE OF KERB.
- LOCATION OF CONDUITS TO BE STENCILED ON KERB FACE AS G, W, E, T.



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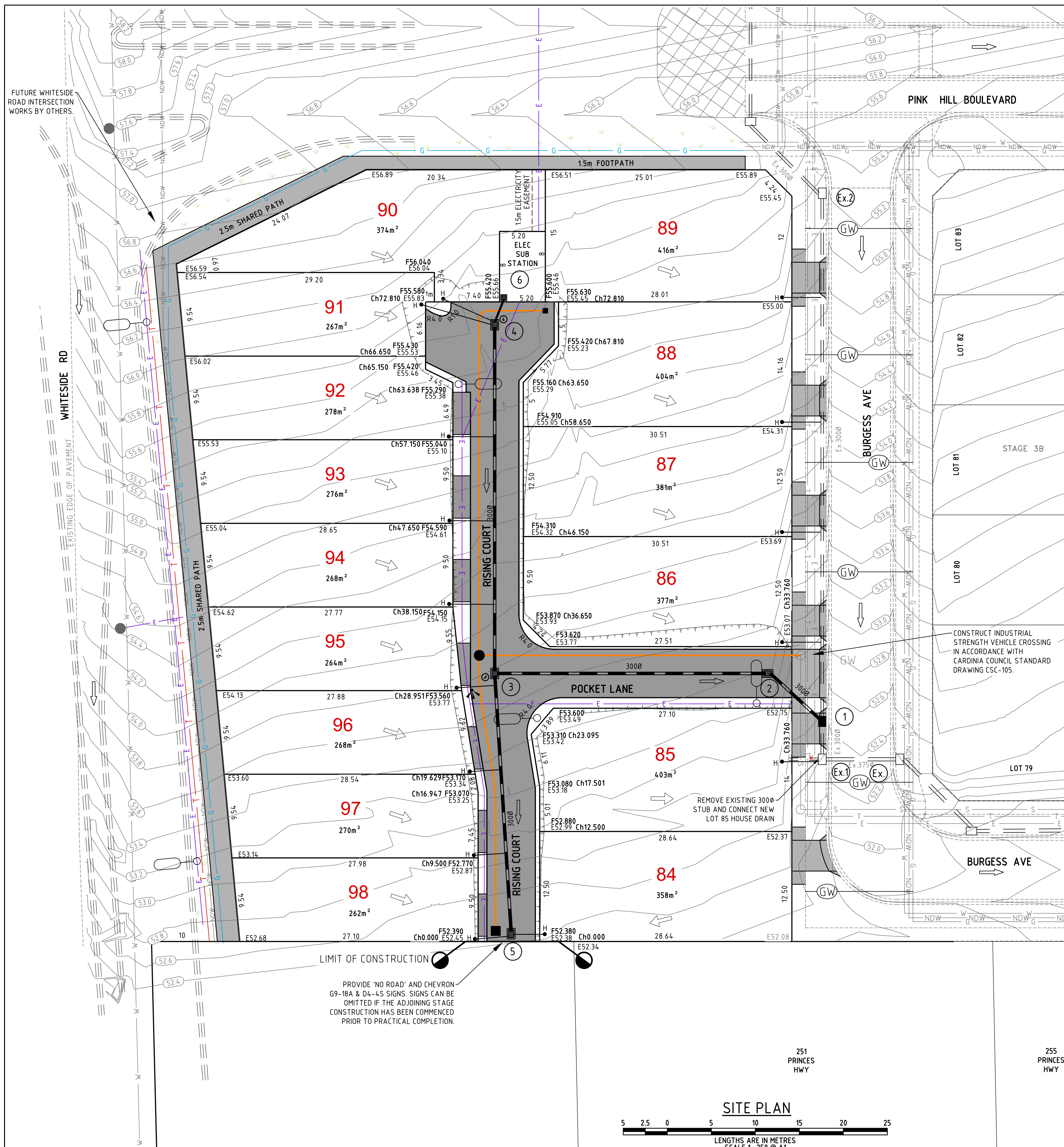
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 DA DATED 18-05-2015
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 Trading as Lanigan Civil
 Consulting Civil Engineers
 Unit 4, 7-9 Hall Street, Braeside VIC 3195
 Tel: 03 9558 4380 Fax: 03 9587 9707
 Email: admin@lanivil.com.au

HERITAGE RISE STAGE 5
 265 PRINCES HIGHWAY &
 24 WHITESIDE ROAD,
 OFFICER

FACE SHEET, LEGEND
 LOCALITY PLAN &
 DRAWING INDEX

DESIGNED NJC	DRAWN CS	CHECKED NJC
DATE 07-11-18	SCALE/S AS NOTED	ISSUE LC1016-5-R01
DRG NO		B

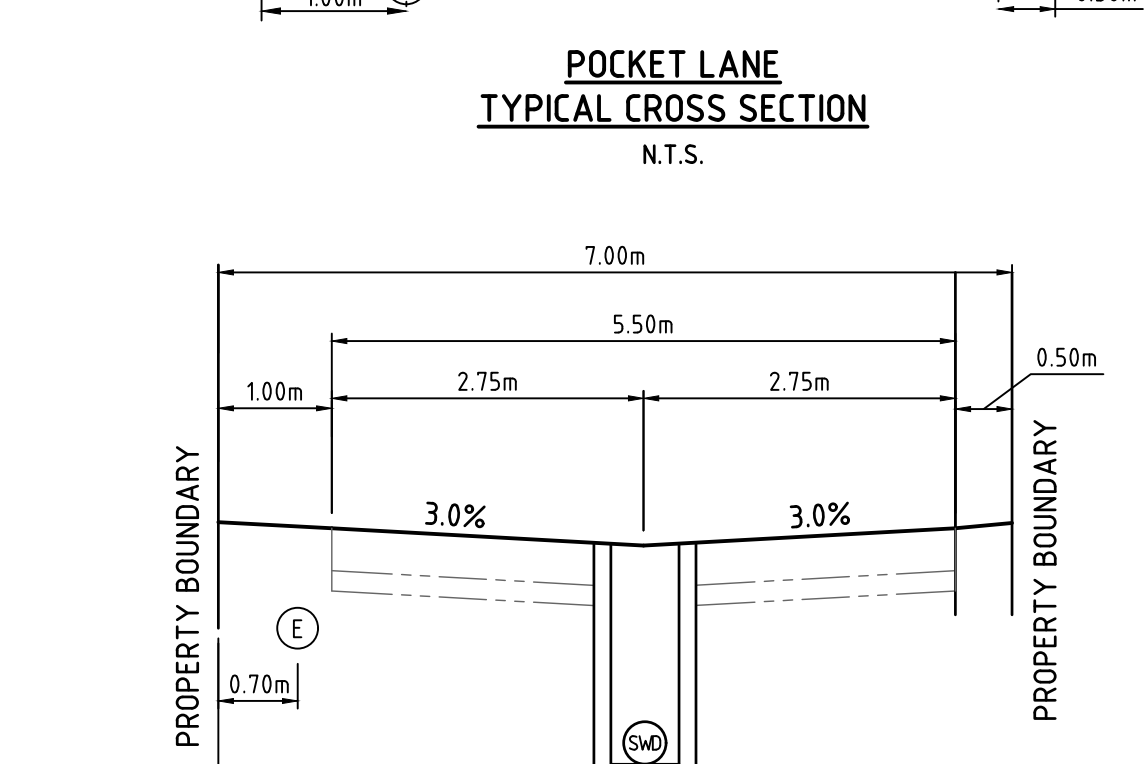
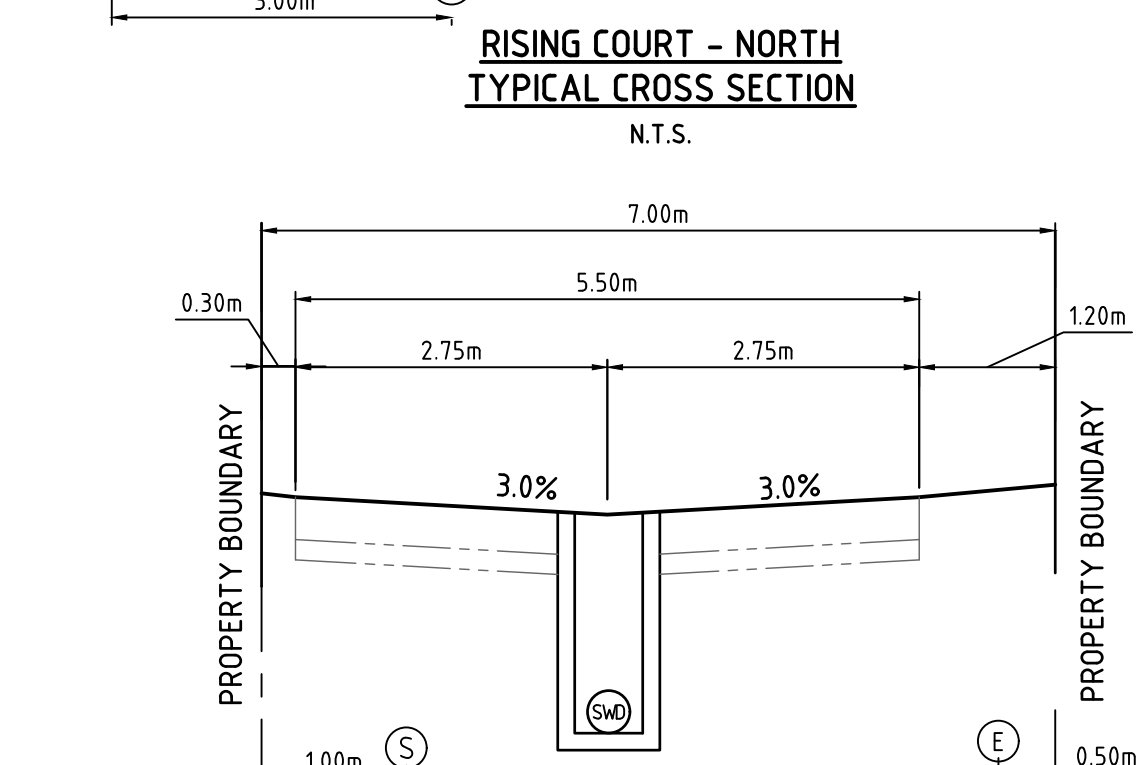
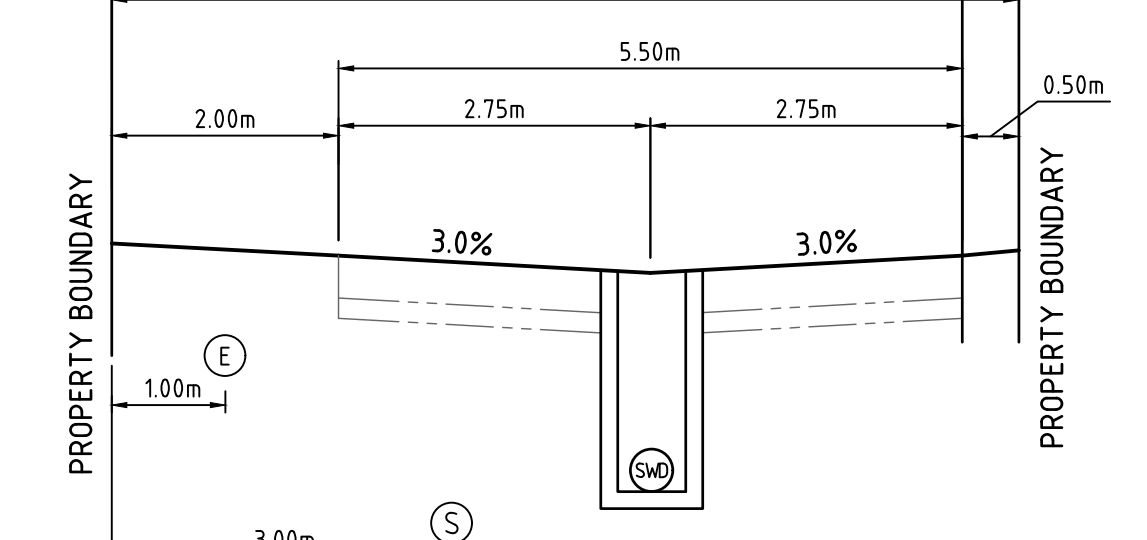


LINE MARKINGS, PAVEMENT MARKINGS, SIGNAGE, STREET LIGHTING AND RRPMS MUST BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS.

PATHS, PRAM CROSSINGS, CROSSOVERS, ACCESS RAMPS AND TGS'S MUST BE ACCORDING TO DDA REQUIREMENTS OF RELEVANT AUSTRALIAN STANDARDS, ALSO REFER TO EDCM FIGURES 6 AND 9.

FOR ALL M2, SM2, SM3 AND B1 KERB PROFILE REFER TO EDCM FIGURE 8.

FOR VEHICLE CROSS-OVER REFER TO GAA DRAWINGS 10 AND 11 WITH 1 METER CLEARANCE TO BE PROVIDED FROM ANY SERVICES. CONSTRUCTION MUST BE APPROVED BY WORKS SUPERVISOR.



APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S18/099 T180149
Sheet: 2 of 6
Approved by: K.Robertson
CARDINIA SHIRE COUNCIL
Date: Tuesday, 26 February 2019

PROPOSED SERVICES SCHEDULE

LOCATION	ROAD RESERVE	TELSTRA/NBN		ELECTRICAL	GAS	RECYCLED WATER	WATER	SEWER	DRAINAGE	FACE OF KERB
		NETWORK SIDE	NON NETWORK SIDE							
PINK HILL BOULEVARD	33.00	4.00 N	1.775 S	4.825 N	2.25 N & S	2.70 N & S	3.20 N & S	1.00 N	11.55 N	12.30 N & 6.30 S
BURGESS AVENUE	16.00	Ex1.775 W	Ex1.775 E	Ex2.60 W	Ex2.25 E	Ex2.70 E	Ex3.20 E	Ex1.00 W	Ex3.75 W	Ex4.50 E & Ex4.20 W
POCKET LANE (EAST WEST)	7.00	-	-	0.5 S	-	-	-	1.00 N	3.50 N	1.20 S & 0.30 N
RISING COURT (NORTH)	8.00	-	-	1.0 W	-	-	-	3.00 W	3.25 E	0.50 E & 2.00 W
RISING COURT (SOUTH)	7.00	-	-	0.7 W	-	-	-	2.00 W	3.25 E	0.50 E & 1.00 W
WHITESIDE ROAD	VARIES 26.0-32.0	3.45 E	-	4.0 E	1.90 E	Ex VARIES 1.6-2.75 E	Ex VARIES 6.7-11.9 E	-	-	VARIES 12.0-17.0 E



CONTRACTOR MUST DIAL 1100 TO CONFIRM LOCATION OF EXISTING SERVICES AND COMPLY WITH ANY AUTHORITY REQUIREMENTS REGARDING EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORKS.

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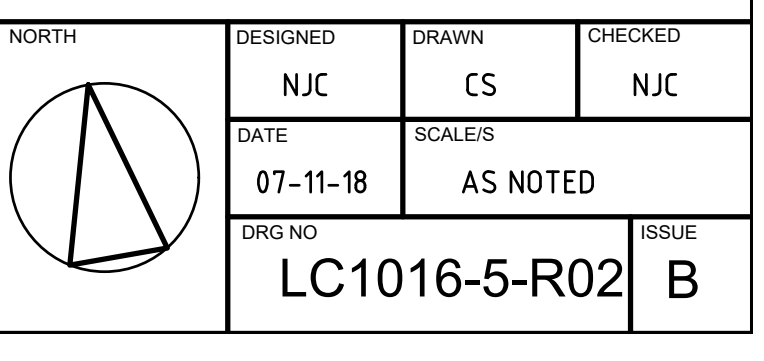
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DATED 18-05-2015
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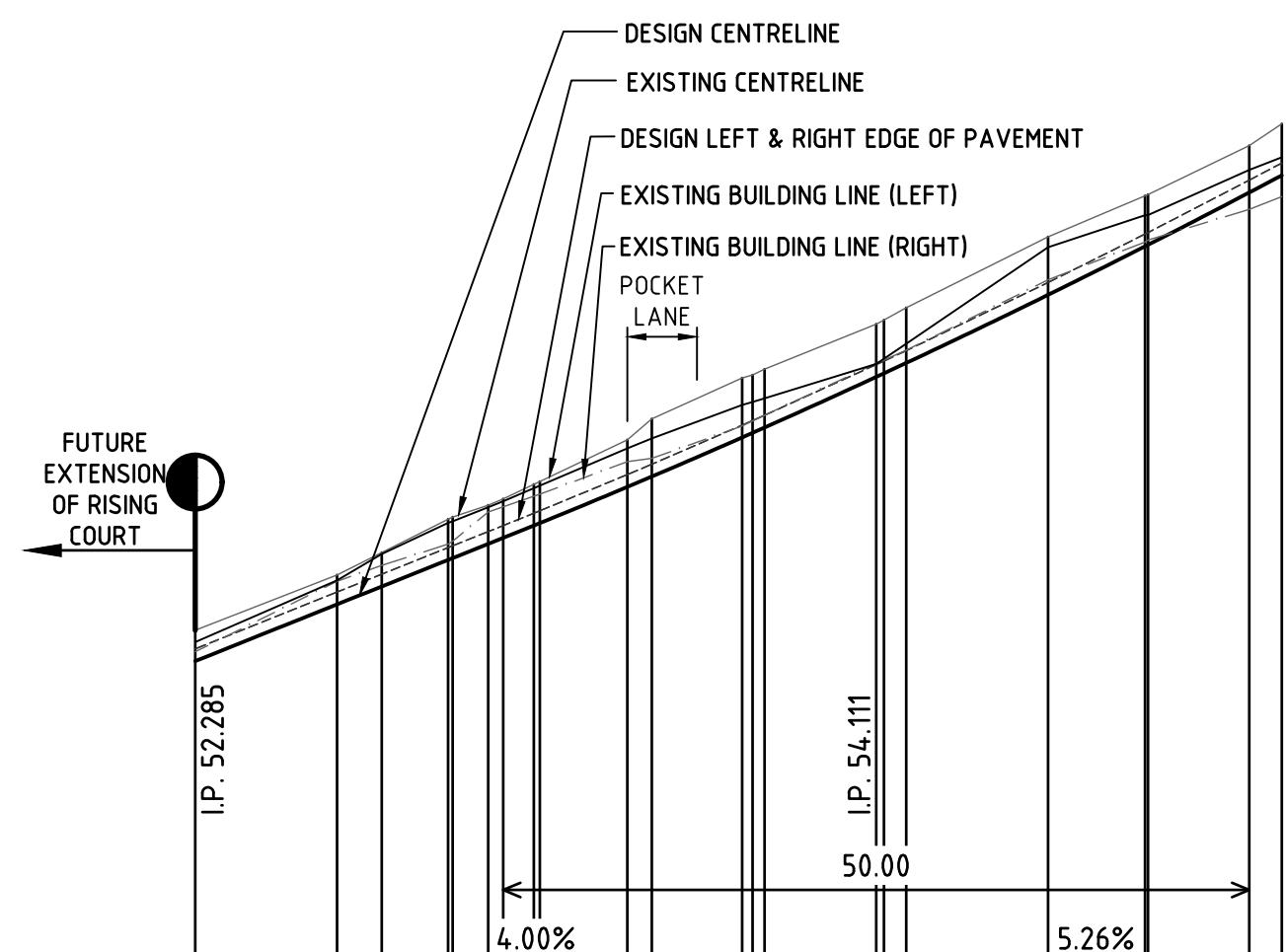
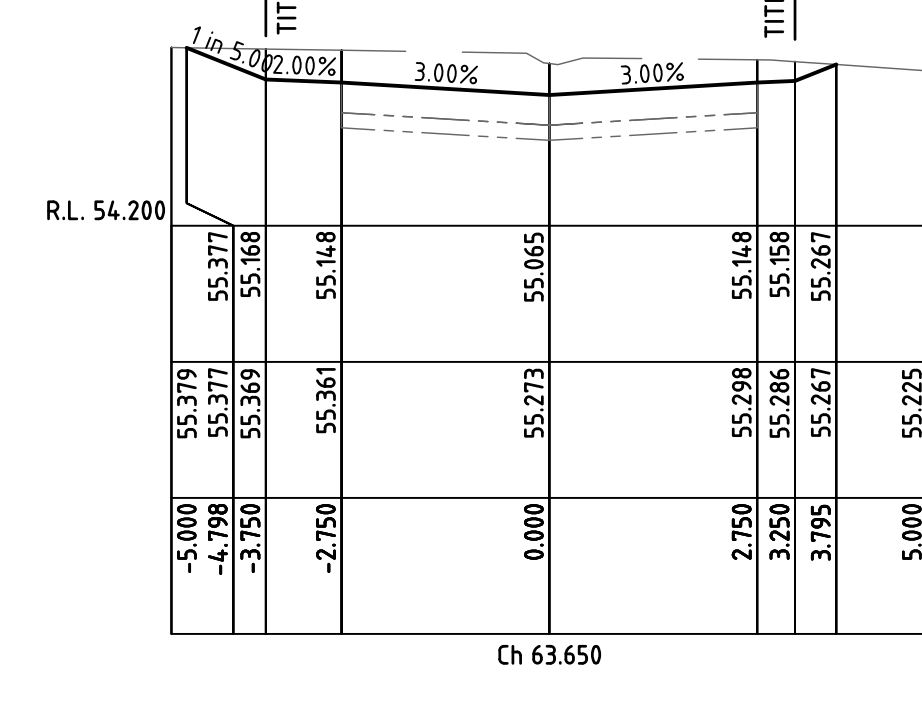
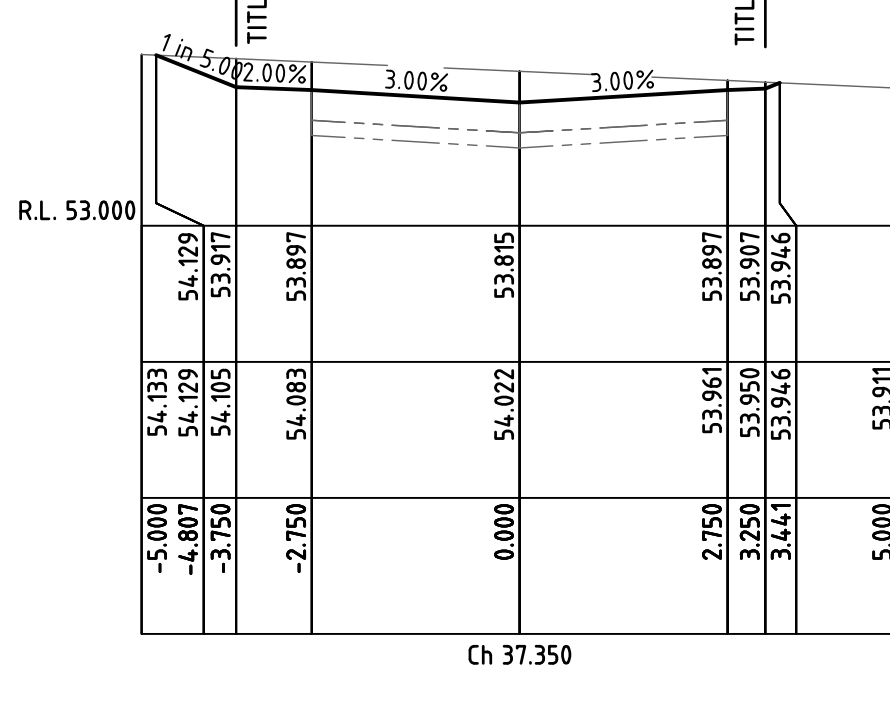
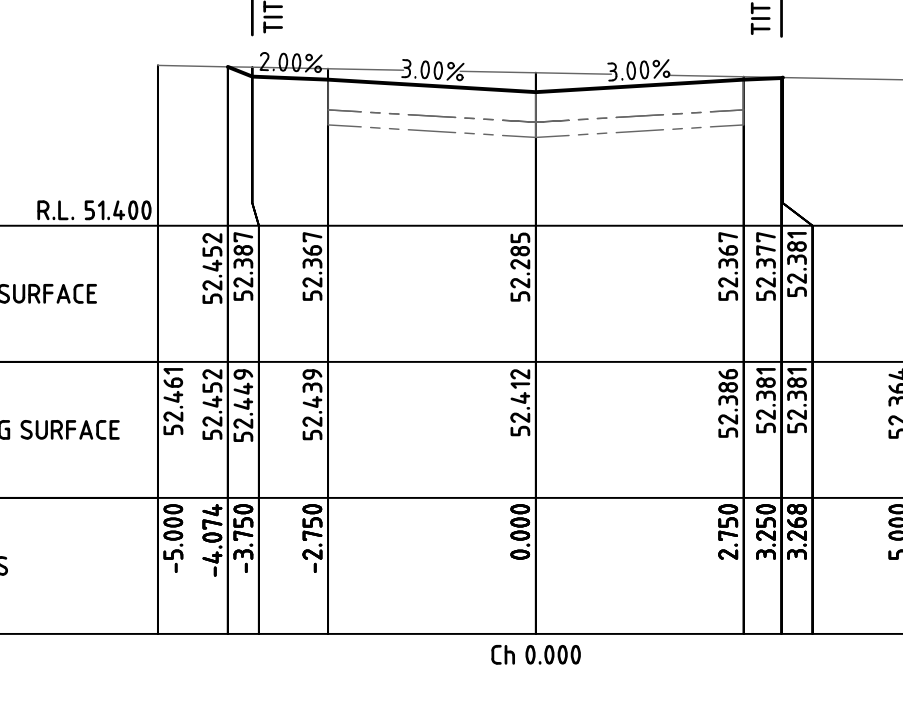
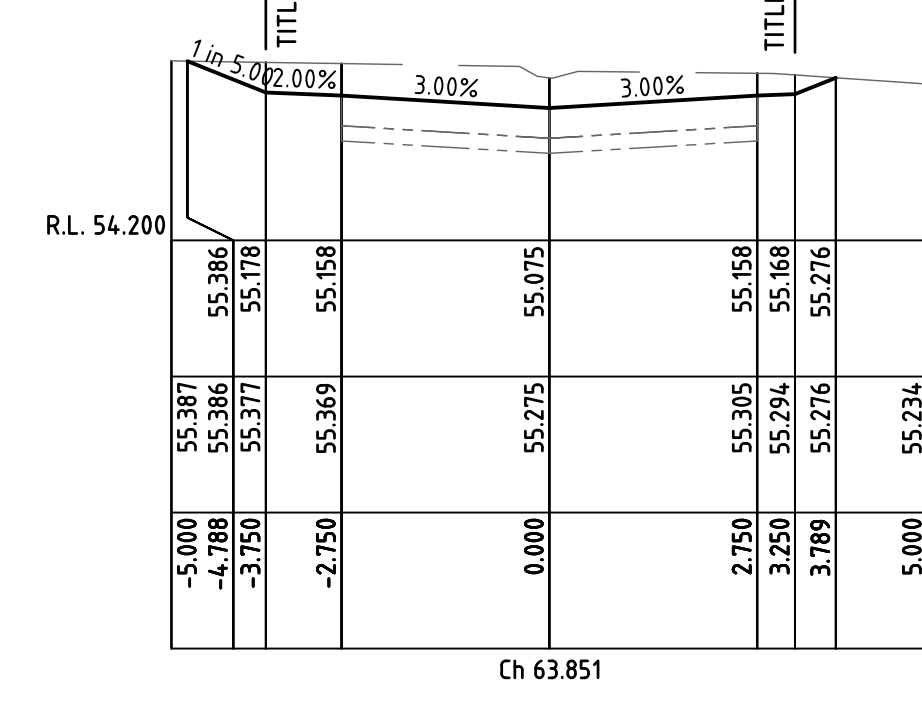
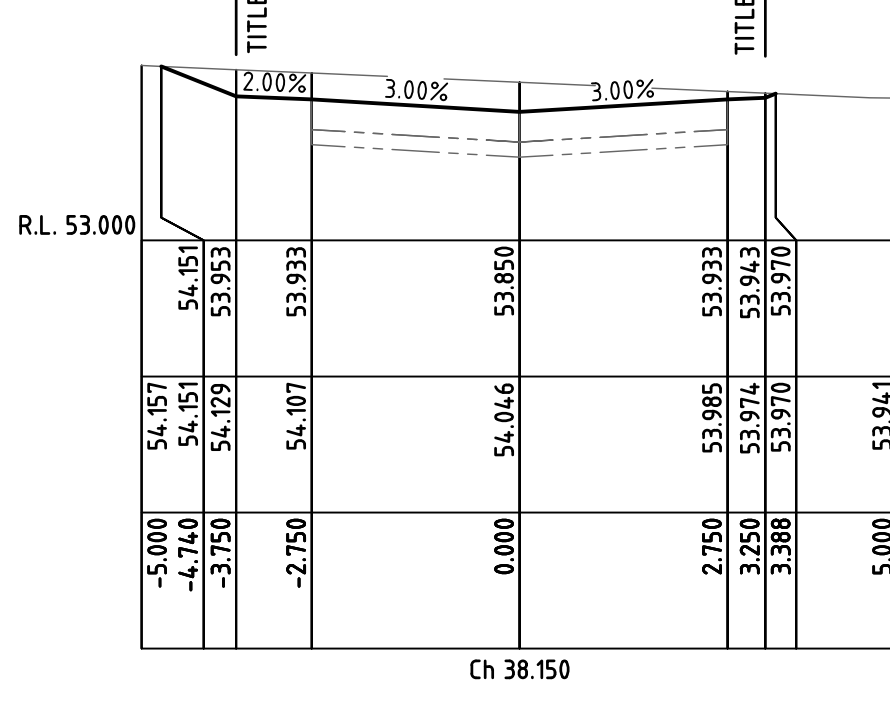
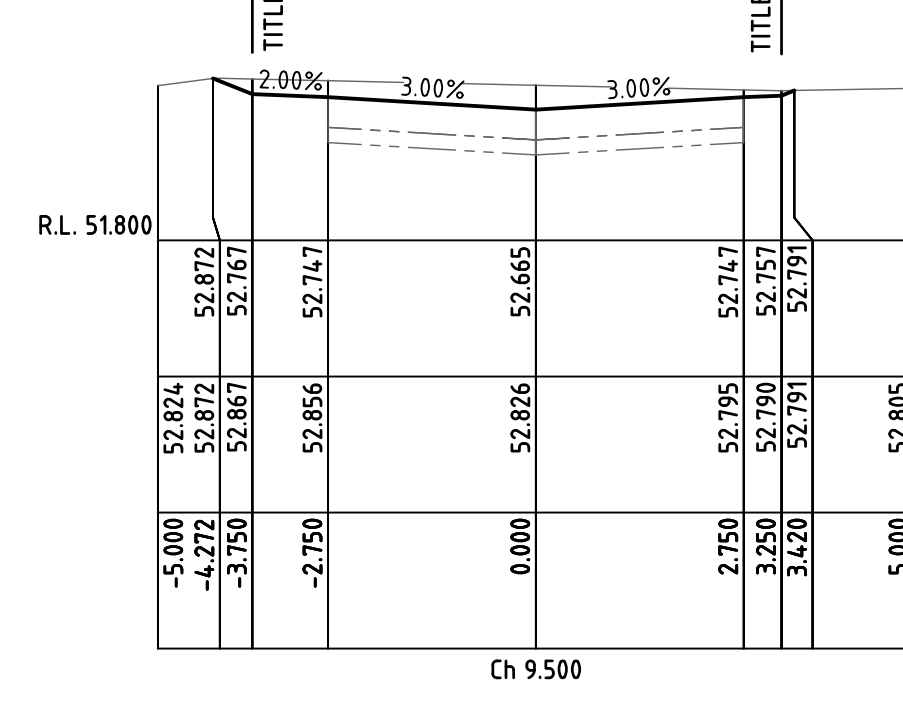
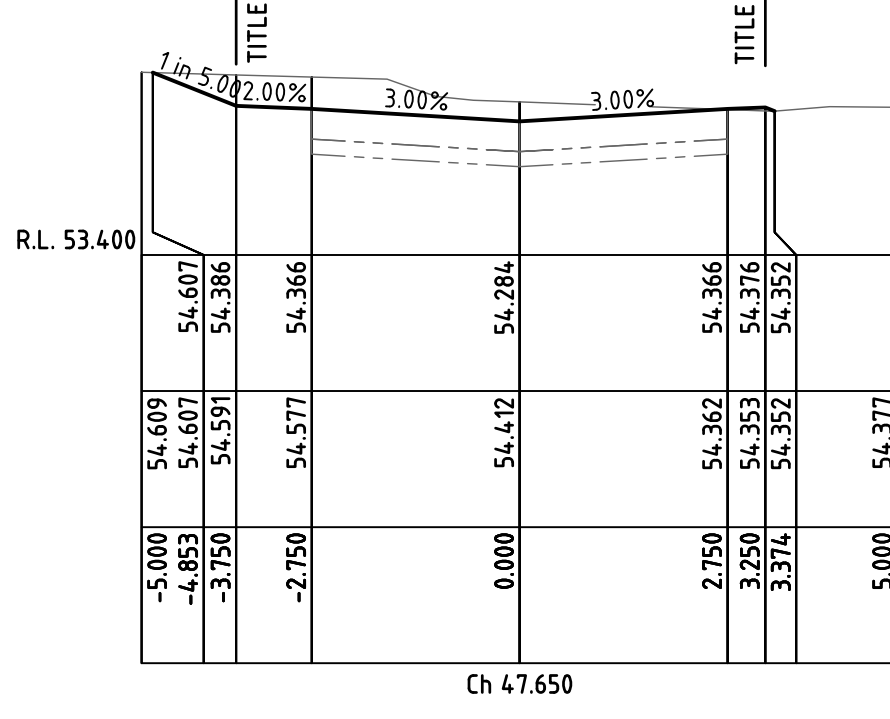
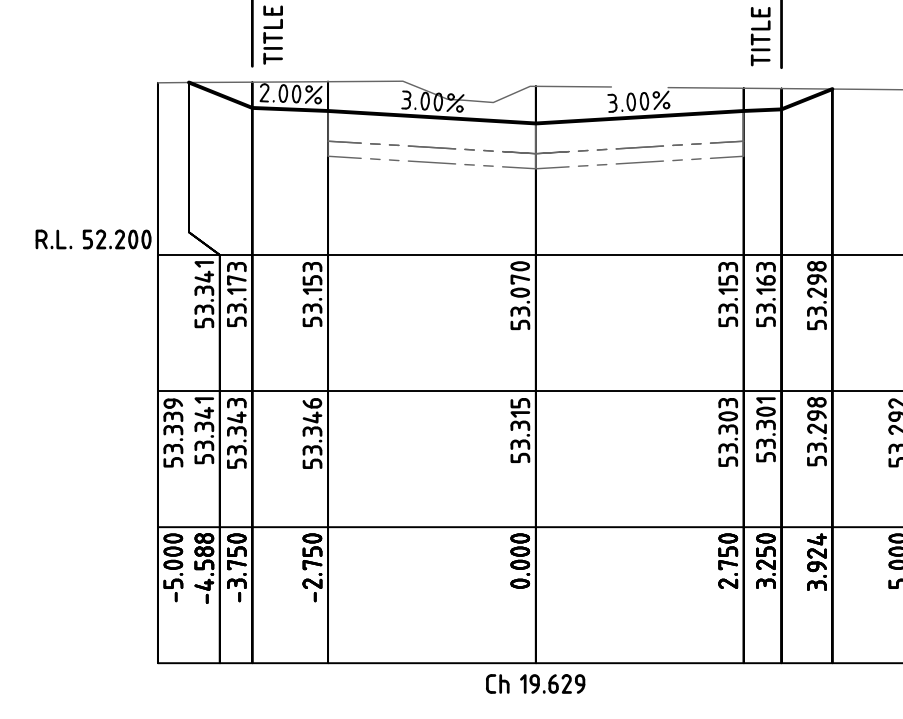
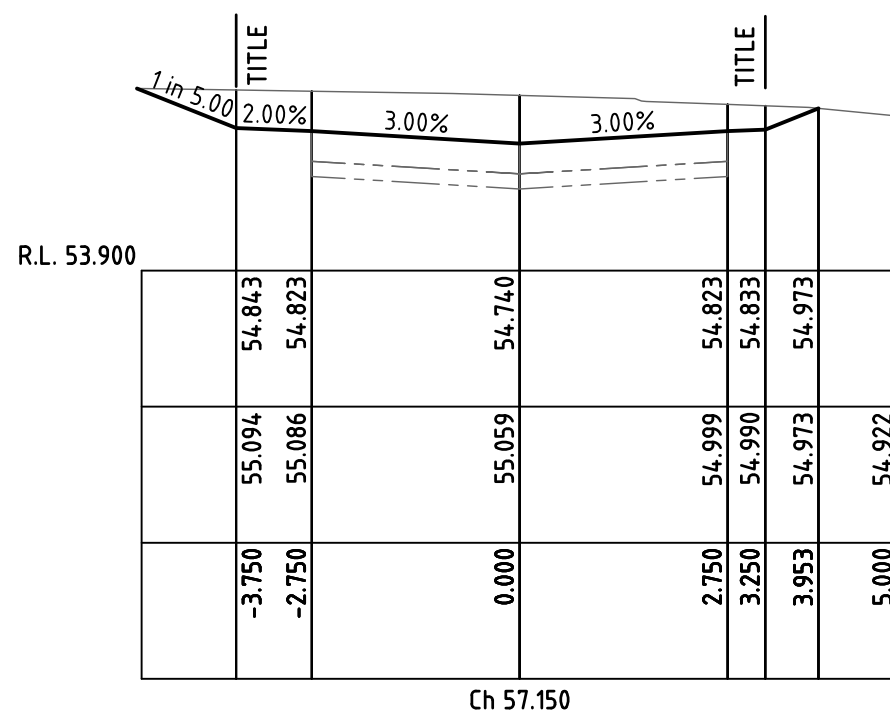
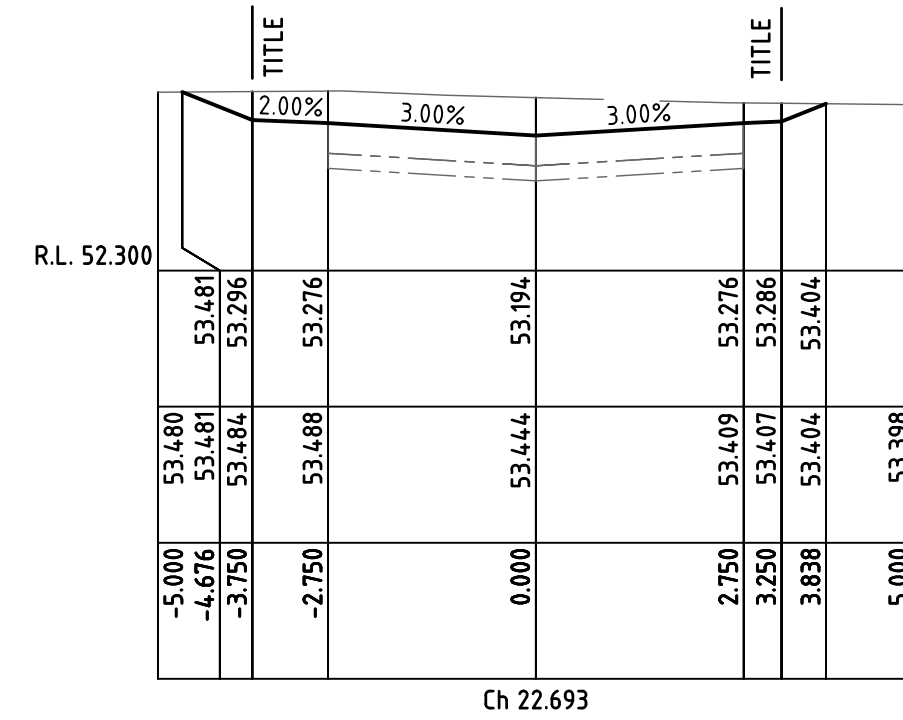
HERITAGE RISE STAGE 5
265 PRINCES HIGHWAY & 24 WHITESIDE ROAD,
OFFICER

SITE PLAN, PAVEMENT DETAILS, TYPICAL CROSS SECTIONS & SERVICES SCHEDULE

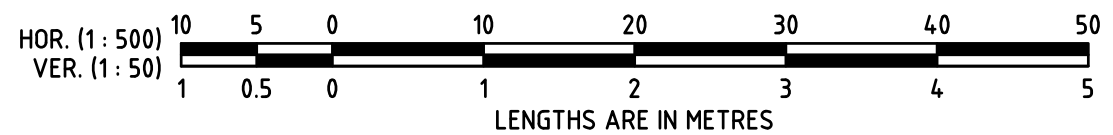
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CHECKED NJC
DATE 07-11-18
SCALE/S AS NOTED
DWG NO LC1016-5-R02
ISSUE B



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 CARDINIA SHIRE COUNCIL
 Ref No.: S18/099 T180149
 Sheet: 3 of 6
 Approved by: K. Robertson
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 26 February 2019



	IP 52.285	IP 54.111
DESIGN CL	52.285	54.111
EXISTING CL	52.412	54.740
EXISTING BUILDING LINE (LEFT)	52.491	55.129
EXISTING BUILDING LINE (RIGHT)	52.348	54.841
DESIGN LEFT EDGE OF PAVEMENT	52.367	54.823
DESIGN RIGHT EDGE OF PAVEMENT	52.367	54.823
CHAINAGE	0.000	57.150



NO	REVISION	DATE	NO	REVISION	DATE
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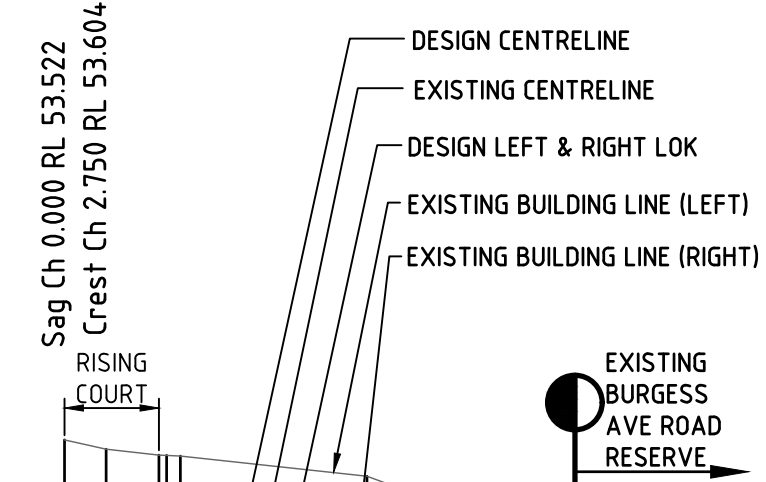
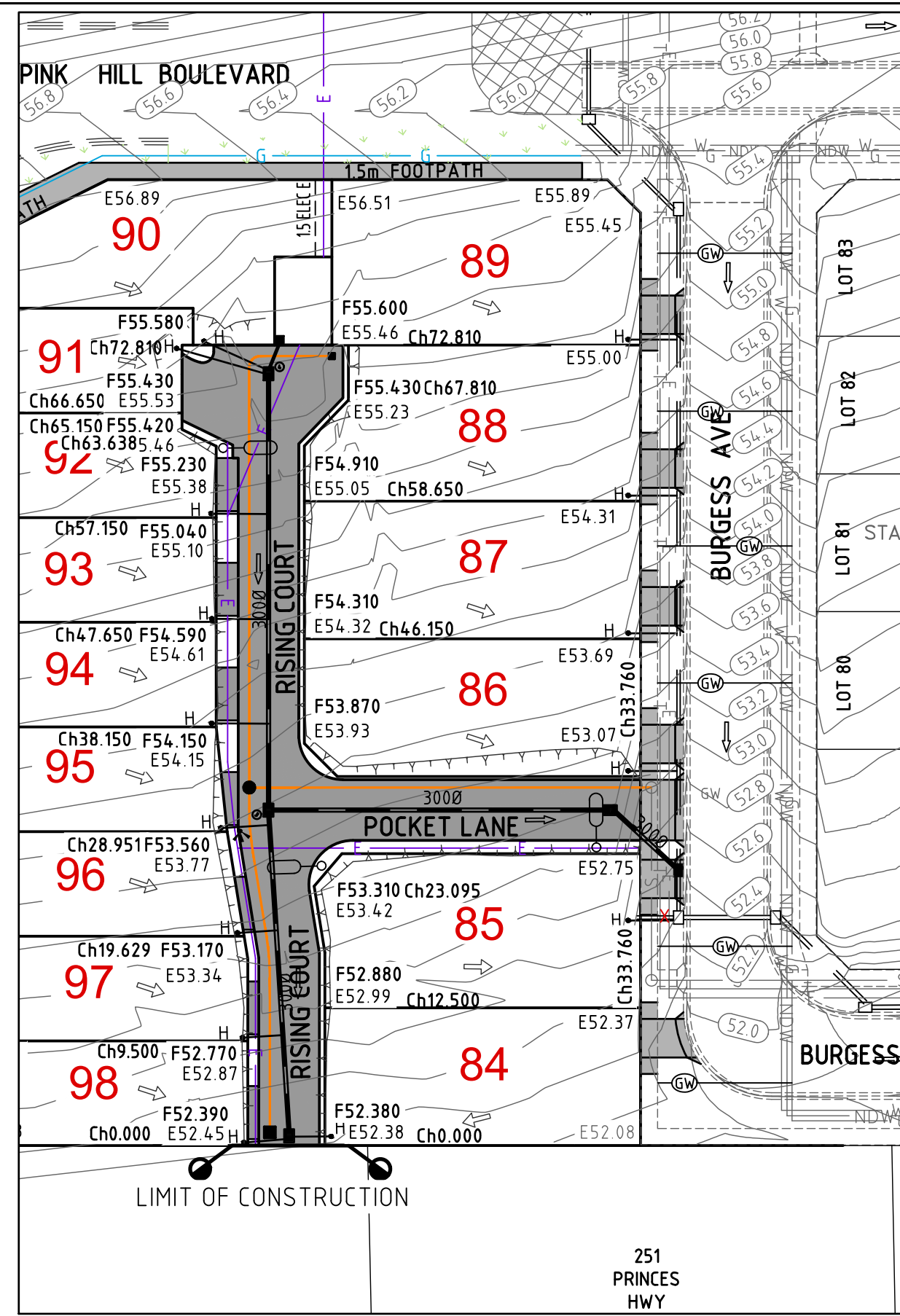
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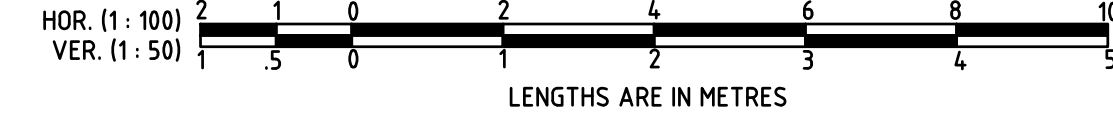
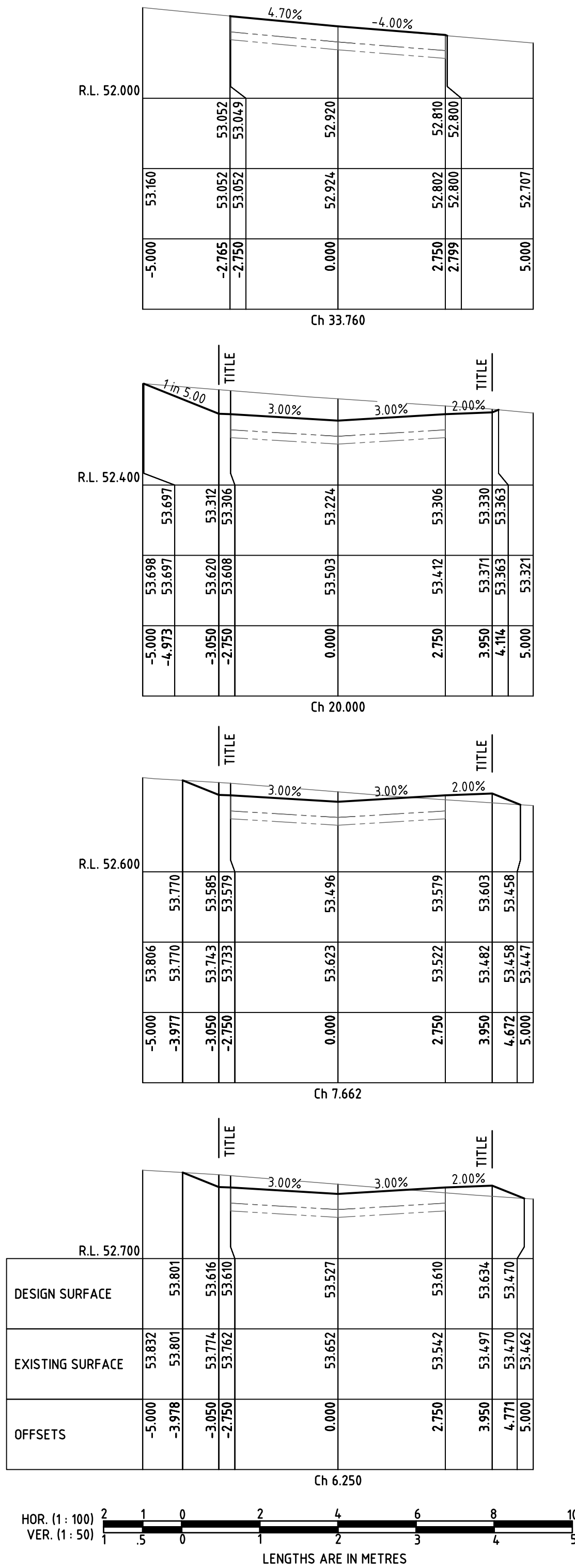
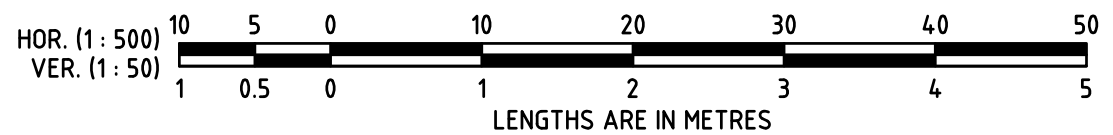
HERITAGE RISE STAGE 5
 265 PRINCES HIGHWAY &
 24 WHITESIDE ROAD,
 OFFICER

RISING COURT
 LONGITUDINAL SECTION

DESIGNED NJC	DRAWN CS	CHECKED NJC
DATE 07-11-18	SCALE/S AS NOTED	
DRG NO LC1016-5-R03	ISSUE B	



	0.000	2.750	6.750	7.662	20.000	33.760
DESIGN CL	53.522	53.604	53.777	53.824	53.924	52.920
EXISTING CL	53.777	53.722	53.527	53.496	53.503	52.924
EXISTING BUILDING LINE (LEFT)	54.063	54.002	53.983	53.642	53.824	53.317
EXISTING BUILDING LINE (RIGHT)	53.511	53.456	53.407	53.393	53.243	52.640
DESIGN LEFT EDGE OF PAVEMENT	53.605	53.610	53.599	53.579	53.306	53.049
DESIGN RIGHT EDGE OF PAVEMENT	53.605	53.667	53.610	53.599	53.306	52.810
CHAINAGE	0.000	2.750	6.750	7.662	20.000	33.760



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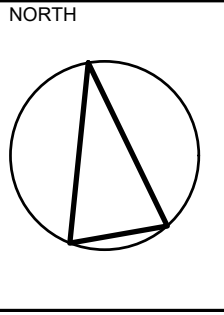
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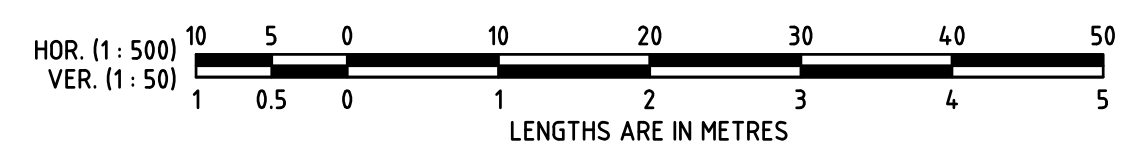
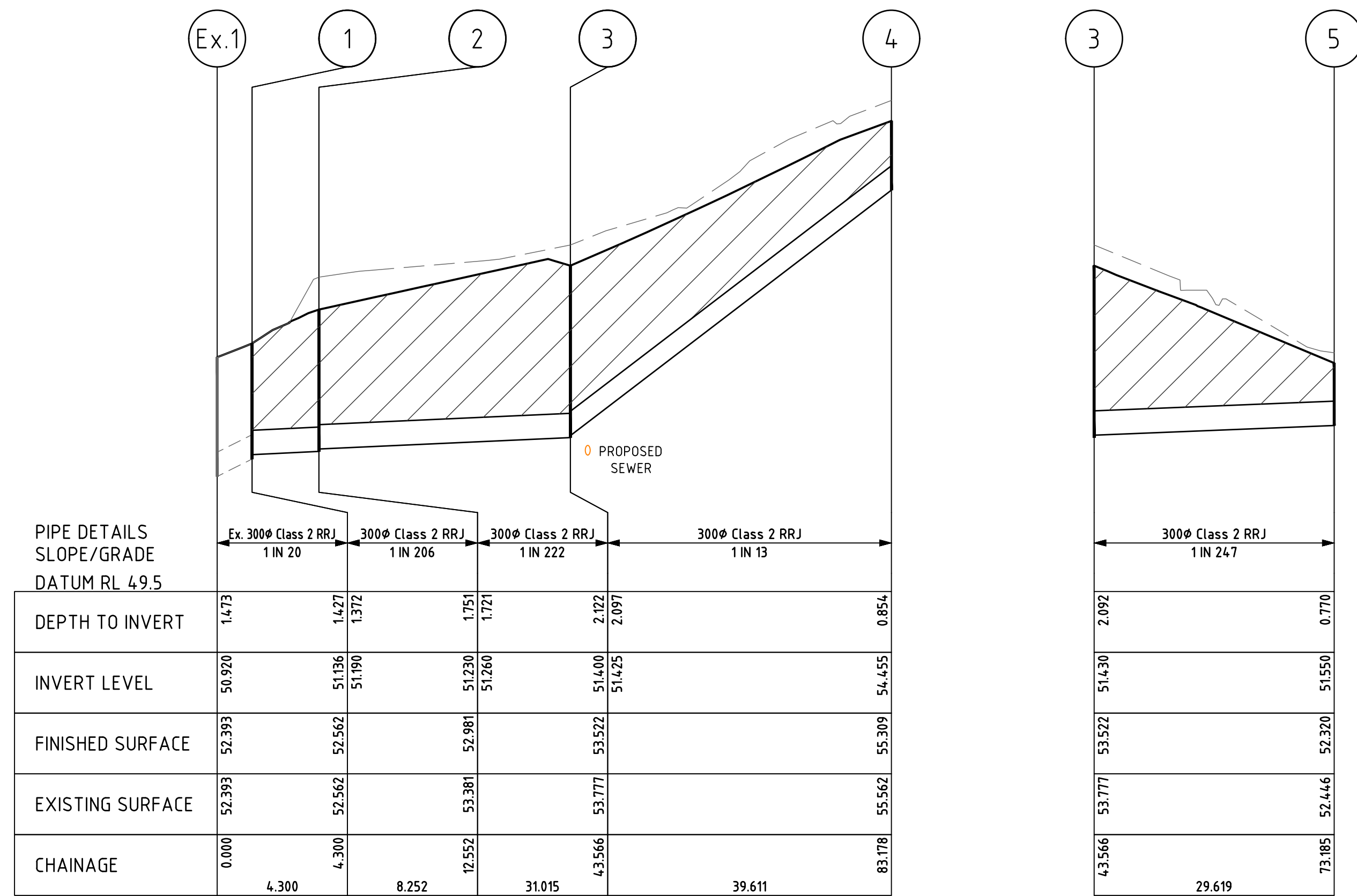
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HERITAGE RISE STAGE 5
 265 PRINCES HIGHWAY &
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 OFFICER

POCKET LANE
 LONGITUDINAL SECTION
 AND CROSS SECTIONS



DESIGNED	DRAWN	CHECKED
NJC	CS	NJC
DATE	SCALE/S	
07-11-18	AS NOTED	
DRG NO	ISSUE	
LC1016-5-R04	B	



Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Eastings	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
Ex.	EXISTING GRATED SIDE ENTRY	Ex. 600	Ex. 900	Ex. 375	Ex.50.60	Ex. 375	Ex.50.65	Ex.1.770	Ex.52.37	358819.49	5786860.346	EXISTING COUNCIL PIT CONSTRUCTED AS PART OF STAGE 3B WORKS.
Ex.1	EXISTING GRATED SIDE ENTRY	Ex. 600	Ex. 900	Ex. 375	Ex.50.77	Ex. 300	Ex.50.92	Ex.1.550	Ex.52.32	358810.83	5786861.922	CONNECT LOT 85 HOUSE DRAIN TO EXISTING SIDE ENTRY PIT
Ex.2	EXISTING GRATED SIDE ENTRY	Ex. 600	Ex. 900	Ex. 300	Ex.53.93	Ex. 300	Ex.54.02	Ex. 1.390	Ex.55.32	358822.34	5786925.182	EXISTING COUNCIL PIT CONSTRUCTED AS PART OF STAGE 3B WORKS.
1	JUNCTION	600	900	Ex. 300	Ex. 51.14	300	51.190 Ex.300 Ex. 51.14	1.902	53.042	358811.60	5786866.153	REFER TO EDCM STANDARD DRAWING 605. CAST IRON CLASS D COVER IN THE LAYBACK. CONNECTED TO EXISTING PIPE.
2	GRATED	600	900	300	51.230	300	51.260	1.751	52.981	358806.48	5786872.624	REFER TO EDCM STANDARD DRAWING 605. CLASS D GRATED COVER.
3	GRATED	600	900	300	51.400	300	51.430 51.425	2.122	53.522	358775.96	5786878.179	REFER TO EDCM STANDARD DRAWING 605. CLASS D GRATED COVER.
4	GRATED	600	900	300	54.455	150	54.505	0.854	55.309	358783.06	5786917.150	REFER TO EDCM STANDARD DRAWING 605. CLASS D GRATED COVER.
5	GRATED	600	900	300	51.550			0.770	52.320	358772.51	5786848.762	REFER TO EDCM STANDARD DRAWING 605. CLASS D GRATED COVER.
6	GRATED	450	450	150	54.920			0.500	55.420	358772.51	5786848.762	REFER TO EDCM STANDARD DRAWING 605. CLASS D GRATED COVER.

NO	REVISION	DATE	NO	REVISION	DATE
B	TENDER ISSUE	12/12/18			
A	ISSUED TO COUNCIL FOR APPROVAL	11/12/18			
P1	PRELIMINARY ISSUE	16/11/18			

DATUMS USED FOR THIS DESIGN/DRAWING
 VERTICAL: AHD - REFER BENCH MARKS ON PLAN
 HORIZONTAL: MGA - FROM SURVEY BY CRA SURVEY PTY LTD.
 DATED 18-05-2015
 FILE REF. 4326PP2V19

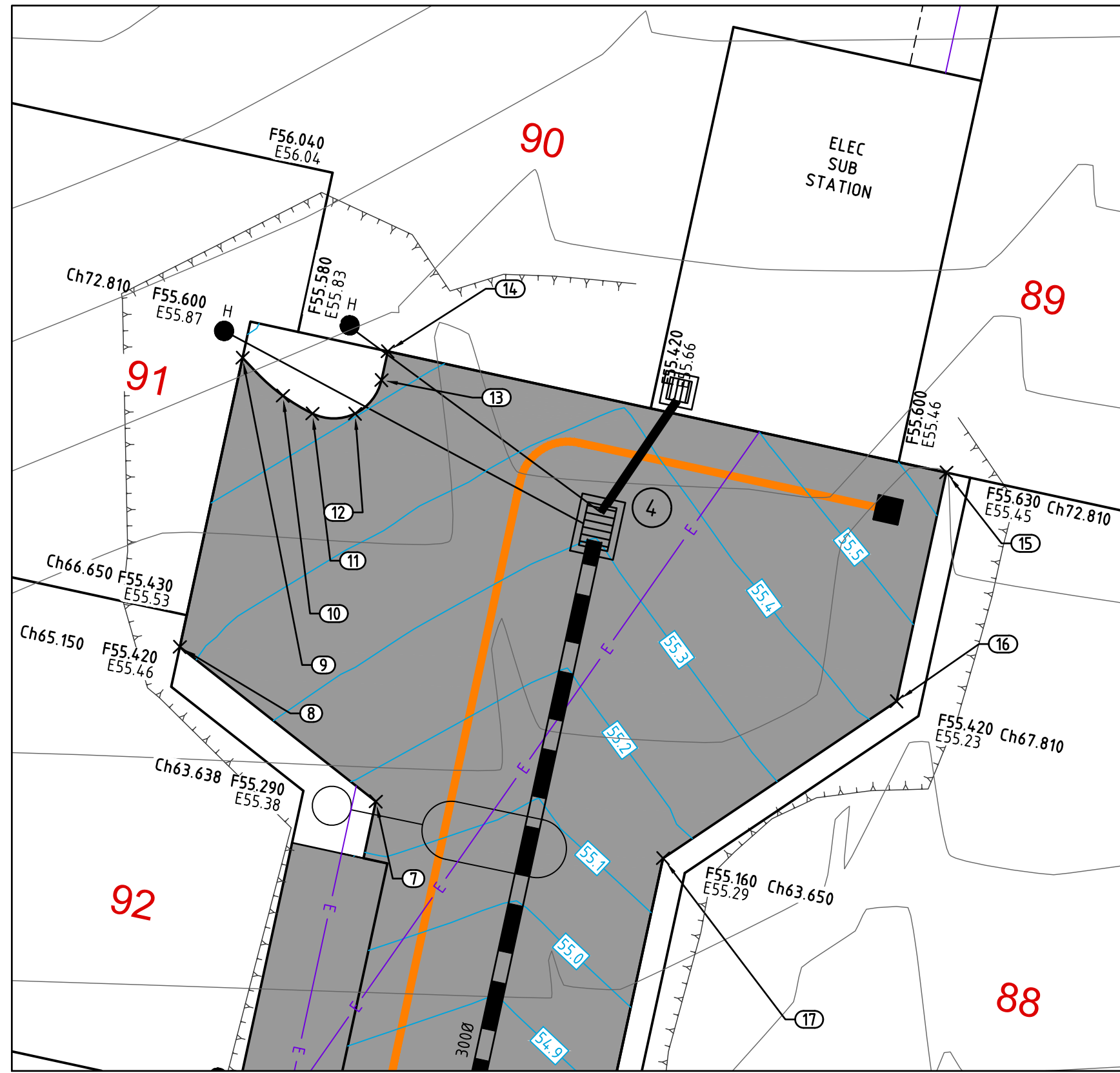


Lanigan Civil
 Patama Pty Ltd (ABN: 79 108 035 463)
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 Email: admin@lanivil.com.au

HERITAGE RISE STAGE 5
 265 PRINCES HIGHWAY &
 24 WHITESIDE ROAD,
 OFFICER

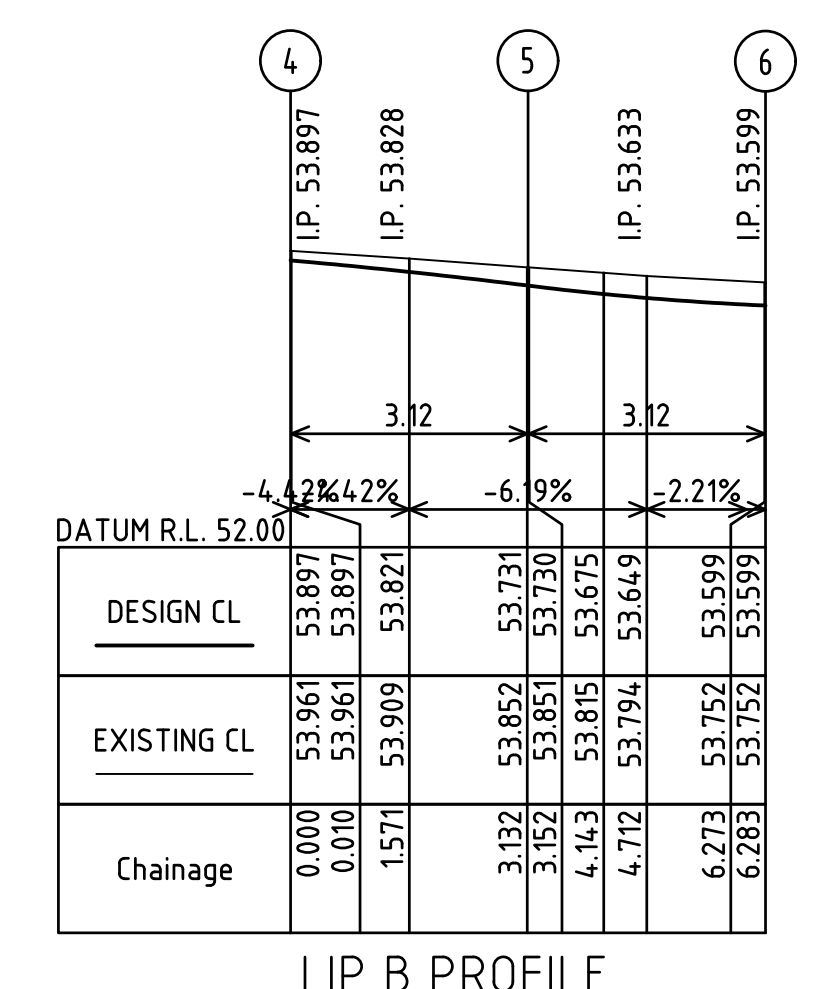
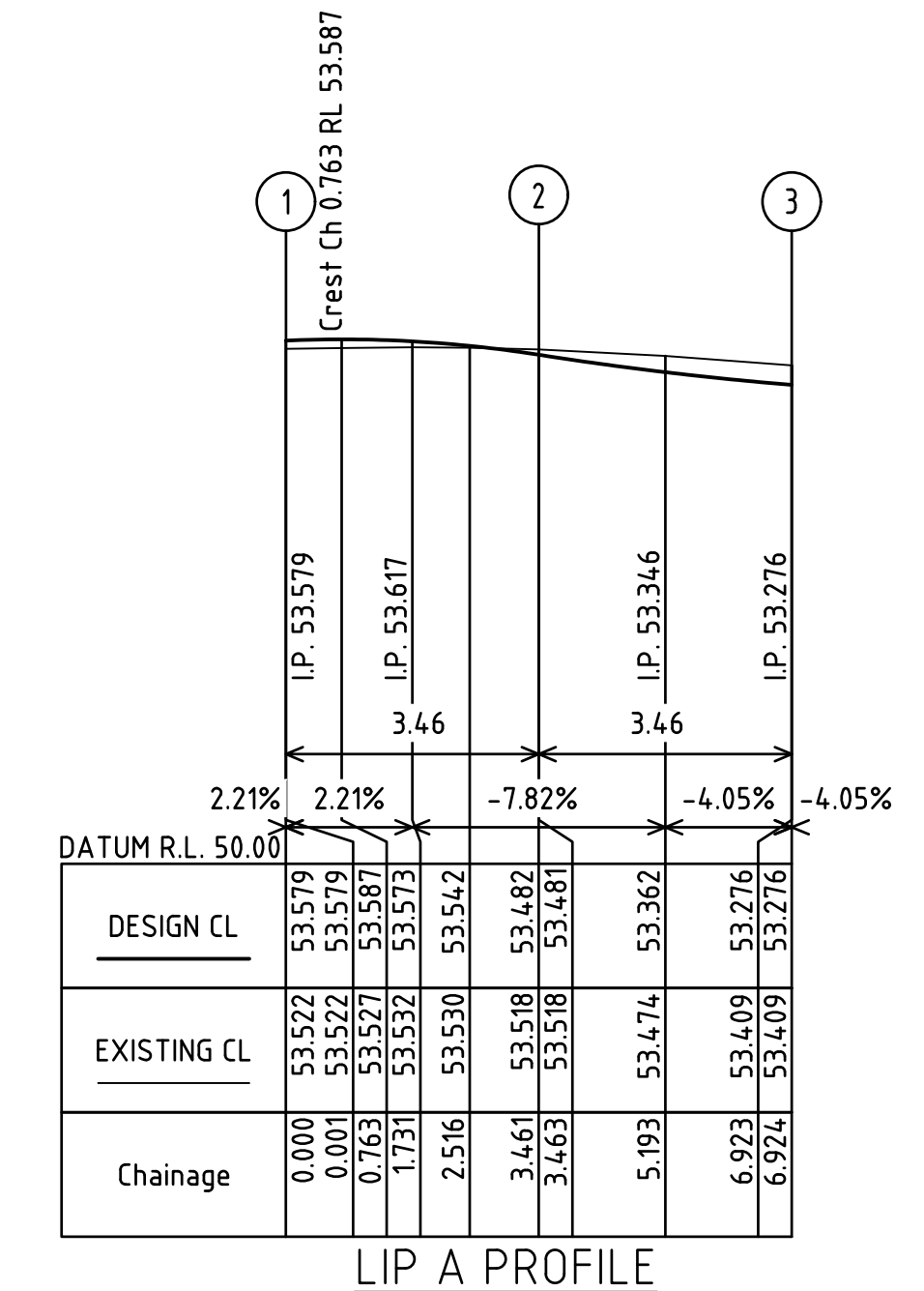
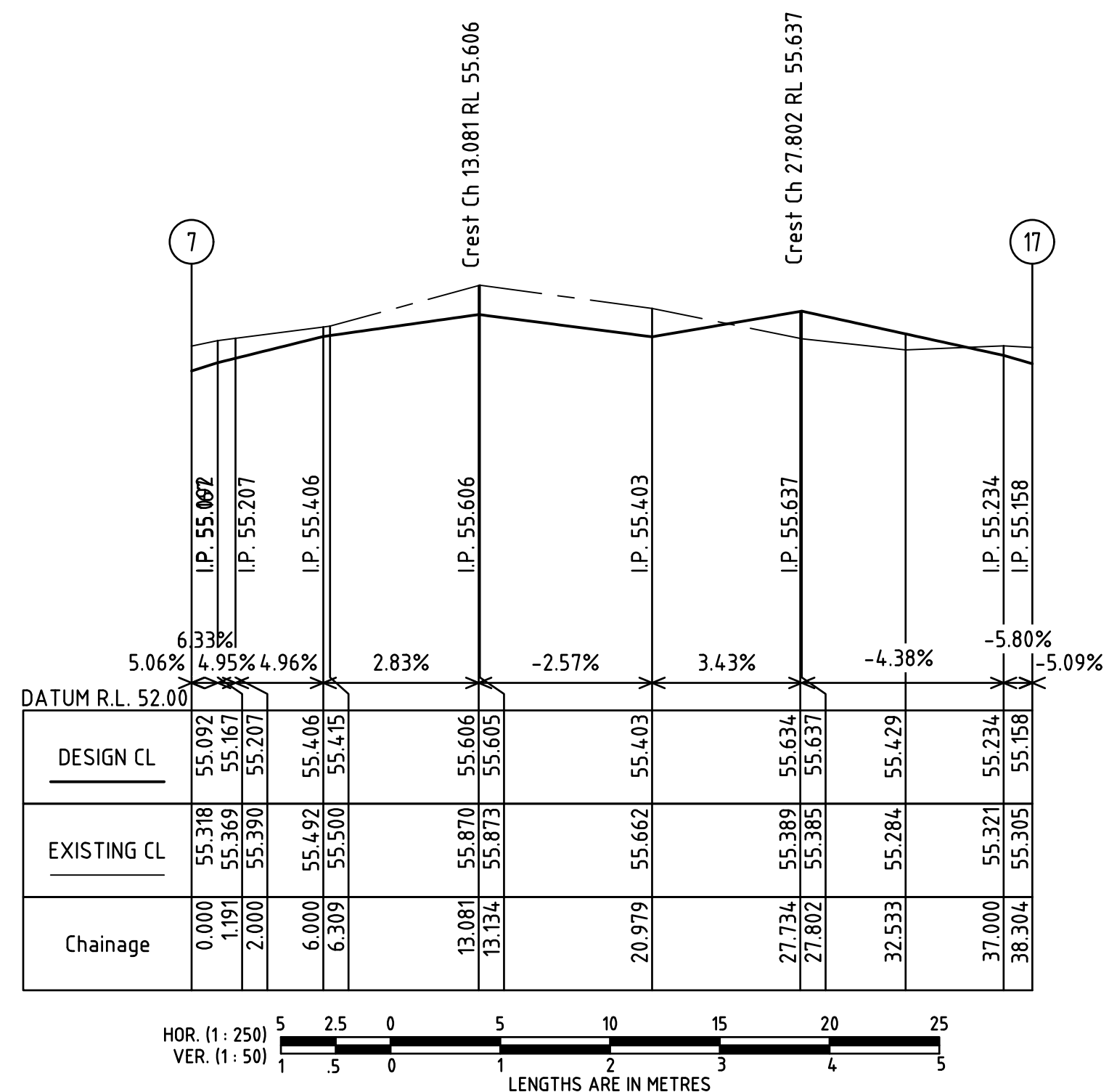
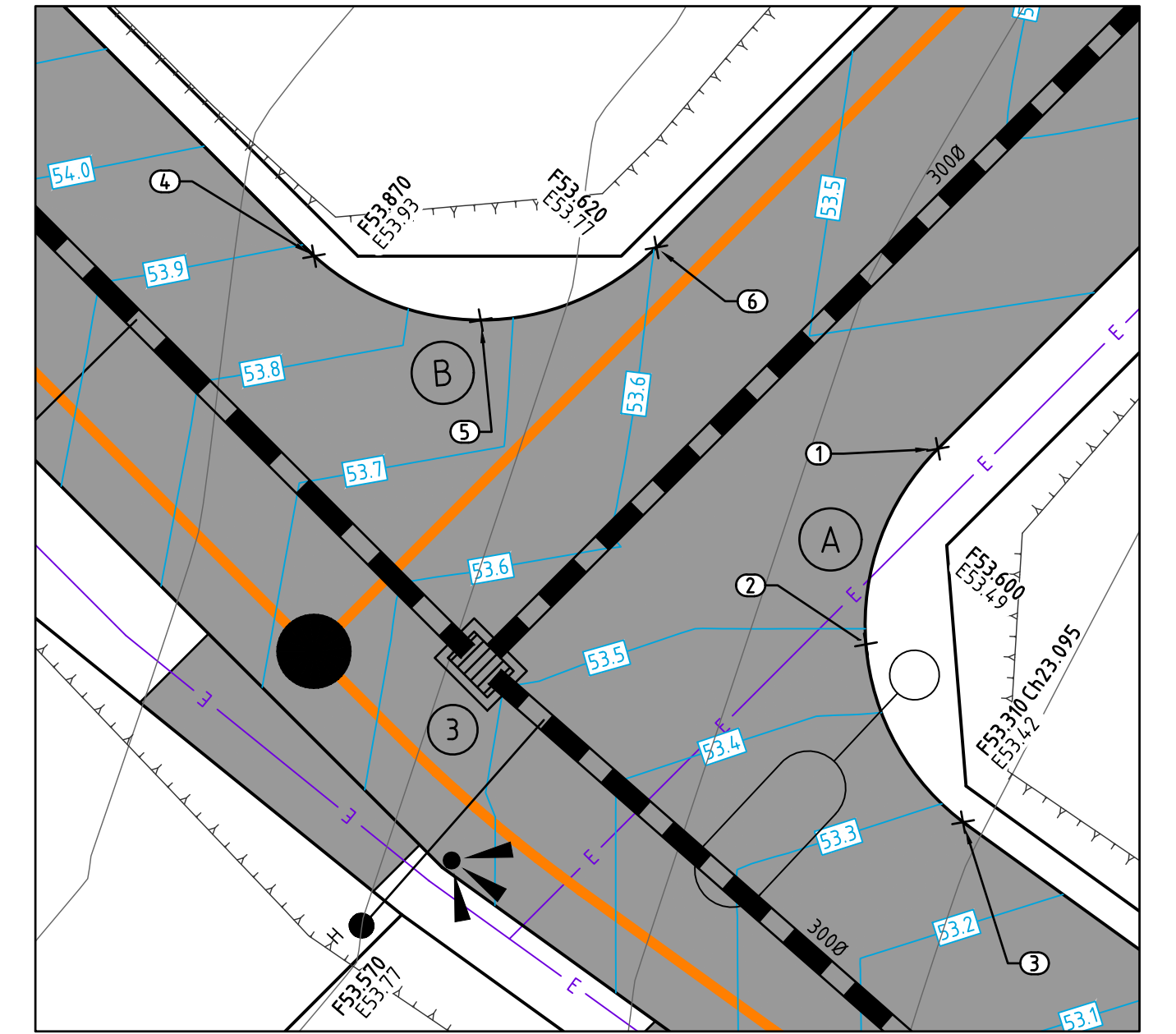
DRAINAGE
 LONGITUDINAL SECTIONS
 AND PIT SCHEDULE

DESIGNED	DRAWN	CHECKED
NJC	CS	NJC
DATE	SCALE/S	
07-11-18	AS NOTED	
DRG NO	ISSUE	
LC1016-5-R05	B	



Point Table

Point #	Easting	Northing	Level	Description
1	358783.011	5786874.101	53.579	TP
2	358779.762	5786873.262	53.481	MID_PT
3	358778.297	5786870.346	53.280	TP
4	358779.844	5786884.130	53.889	TP
5	358780.525	5786881.335	53.731	MID_PT
6	358783.098	5786879.675	53.599	TP
7	358778.703	5786911.366	55.167	TP
8	358774.579	5786916.397	55.415	TP
9	358775.665	5786920.364	55.586	TP
10	358776.518	5786919.616	55.544	MID_PT
11	358777.136	5786919.270	55.519	TP
12	358778.011	5786919.298	55.502	MID_PT
13	358778.529	5786920.004	55.514	TP
14	358778.637	5786920.596	55.531	TP
15	358790.165	5786918.497	55.634	TP
16	358789.306	5786913.776	55.429	TP
17	358784.625	5786910.400	55.158	TP



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HERITAGE RISE STAGE 5
 265 PRINCES HIGHWAY &
 24 WHITESIDE ROAD,
 OFFICER

INTERSECTION SET-OUT
 AND LIP PROFILES

DESIGNED: NJC
 DRAWN: CS
 CHECKED: NJC
 DATE: 07-11-18
 SCALE/S: AS NOTED
 DRG NO: LC1016-5-R06
 ISSUE: B

