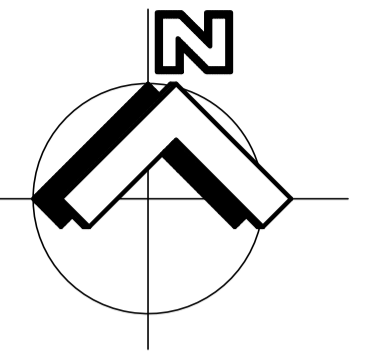


PAVEMENT WIDENING & REHABILITATION WORKS WALLOON STREET AND PARTRIDGE DRIVE, THEODORE FOR BANANA SHIRE COUNCIL JOB No. 2320

NO WORK IS SO
IMPORTANT THAT
IT CANNOT BE
DONE SAFELY



SCHEDULE OF DRAWINGS

DWG	DESCRIPTION
GENERAL	
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LOCALITY PLAN

NOT TO SCALE

PROPERTY DESCRIPTION

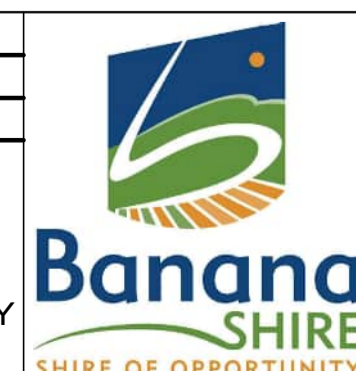
WALLOON STREET & PARTRIDGE DRIVE
THEODORE QLD

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023



DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS

Tony Shelley
Director: TONY SHELLEY
(RPEQ 7736)



WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
LOCALITY PLAN & SCHEDULE OF DRAWINGS

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-001	1 OF 85	1

GENERAL NOTES

- GN1. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- GN2. THE DATUM FOR ALL LEVELS IS THE AUSTRALIAN HEIGHT DATUM IN METERS AND PROJECTIONS ARE BASED ON REAL WORLD MGA ZONE 56 COORDINATES.
- GN3. ALL CONSTRUCTION SHALL JOIN SMOOTHLY TO EXISTING.
- GN4. THE CONTRACTOR SHALL CONTACT ALL RELEVANT SERVICE AUTHORITIES FOR DETAILED LOCATION AND LEVEL OF SERVICES PRIOR TO COMMENCEMENT OF WORKS AND THE SITE. ANY DAMAGE TO EXISTING SERVICES SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- GN5. ALL WORK SHALL CONFORM WITH THE RELEVANT CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES, SPECIFICATIONS AND REQUIREMENTS.

CLEARING OF VEGETATION

- VE1. NO CLEARING SHALL BE CARRIED OUT BEYOND THE EXTENT OF EARTHWORKS OR WHERE NECESSARY FOR SERVICES CONSTRUCTION WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- VE2. ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND FULLY OPERATIONAL BEFORE COMMENCING ANY CLEARING.

EARTHWORKS AND PAVEMENT CONSTRUCTION NOTES

- EW1. THE CONTRACTOR SHALL PROVIDE CERTIFICATION FROM A RPEQ QUALIFIED ENGINEER THAT THE INSPECTION AND TESTING HAS BEEN UNDERTAKEN IN ACCORDANCE WITH CMDG CP1-CONSTRUCTION PROCEDURES, SECTION CP1.15, INCLUDING MANDATORY HOLD POINT INSPECTIONS.
- EW2. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT - (IF AVAILABLE)
- EW3. ALL EXISTING UNDERGROUND SERVICES TO BE LOCATED AND MARKED PRIOR TO COMMENCING EARTHWORKS.
- EW4. ALL EXCAVATIONS ARE ASSUMED TO ENCOUNTER WATER SEEPAGE AND THEREFORE THE CONTRACTOR SHALL MAKE PROVISION FOR WATER INGRESS DURING CONSTRUCTION.
- EW5. THE CONTRACTOR IS REQUIRED TEST THE INSITU SUBGRADE CBR, SHRINK / SWELL POTENTIAL, AND LIME DEMAND TO ASSESS ANY ADDITIONAL SUBGRADE TREATMENT REQUIREMENTS PRIOR TO PAVEMENT CONSTRUCTION.
- EW6. SUBGRADES WITH CBR LESS THAN 3% REQUIRE ADDITIONAL MINIMUM COVER TO PROVIDE A STABLE CONSTRUCTION PLATFORM CONSISTING OF GEOTEXTILE WRAPPED GRANULAR MATERIAL, COMPRISING OF EITHER COARSE UNBOUND GRANULAR MATERIAL (TYPE 2.5 MATERIAL IN DRY CONDITIONS, OR TYPE 2.4 MATERIAL IN WET CONDITIONS) OR ROCK FILL (MRTS04 GENERAL EARTHWORKS), WITH THICKNESS AS INDICATED IN TABLE 1. (ALSO REFER TMR SUPPLEMENT TO AGPT PART 2, TABLE 3.14.1.)

TABLE 2:

IN SITU SUBGRADE CBR AT TIME OF CONSTRUCTION (%)	TYPICAL MINIMUM COVER OF GRANULAR FILL TO PROVIDE A STABLE CONSTRUCTION PLATFORM (mm)
1.0-1.4	400
1.5-1.9	300
2.0-2.4	200
2.5-2.9	100

- EW7. WHERE THE SUBGRADE IS CLASSIFIED AS HAVING HIGH EXPANSIVE NATURE (HAVING SWELL > 5.0%) ADDITIONAL MINIMUM COVER THICKNESS (INCLUSIVE OF PAVEMENT AND ANY NON-REACTIVE FILL / SUBGRADE TREATMENTS) IS REQUIRED TO MINIMISE VOLUME CHANGE IMPACTS ON THE OVERLYING PAVEMENT CAUSED BY SEASONAL MOISTURE VARIATION. THE TOTAL COVER THICKNESS REQUIREMENTS ARE PROVIDED IN TABLE 2. WHERE THE SUBGRADE SWELL IS > 10% ADDITIONAL GEOTECHNICAL ADVICE MUST BE SOUGHT. (ALSO REFER TO TMR SUPPLEMENT TO AGPT PART 2, TABLE 5.3.5 AND FIGURE 5.3.5.)

EARTHWORKS AND PAVEMENT CONSTRUCTION NOTES (CONT.)

TABLE 2:

TYPICAL COVER THICKNESS OVER HIGHLY AND VERY HIGHLY EXPANSIVE MATERIAL FOR FLEXIBLE PAVEMENTS		
TRAFFIC	HIGHLY EXPANSIVE SOIL (SWELL 2.5% TO 5.0%)	VERY HIGHLY EXPANSIVE SOIL (SWELL 5.0% TO 10%)
3.5E = 05 ESAs	615 mm	910 mm
6.0E = 05 ESAs	650 mm	950 mm
8.0E = 05 ESAs	680 mm	980 mm

- EW8. ALL FILLING SHALL BE CLEAN EXCAVATED MATERIAL FREE FROM TOPSOIL AND VEGETATION.
- EW9. THE EXISTING SITE WON MATERIALS MAY CONTAIN ROCKS AND COBBLES AND THESE SHALL BE EXCLUDED OVER 50mm NOMINAL SIZE IN ANY EXISTING MATERIAL USED AS FILLING.
- EW10. ANY IMPORTED FILLING MATERIAL REQUIRED TO MAKE UP SHORTFALLS IN QUANTITIES SHALL BE CLEAN SOIL MATERIAL FREE FROM TOPSOIL, VEGETABLE MATTER AND OTHER DELETERIOUS MATERIAL. THE FILLING SHALL BE FREE FROM COBBLES OR ROCKS IN EXCESS OF 50mm NOMINAL SIZE. THE MATERIAL SHALL HAVE A MINIMUM SOAKED CBR 15 UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- EW11. ALL FILLING SHALL BE PLACED IN MAXIMUM 200mm LOOSE LAYER THICKNESS WITH EACH LAYER COMPACTED TO AT LEAST 98% COMPACTING AS MEASURED BY THE STANDARD METHOD DESCRIBED IN AS 1289.
- EW12. FILL DENSITY TESTING SHALL CONFORM TO THE FOLLOWING:
- 1 TEST PER 500 cu.m - GENERALLY
 - 1 TEST PER 2 LAYERS PER 40m - TRENCH BACKFILL
- EW13. PLACEMENT OF FILL SHALL CONFORM TO THE FOLLOWING MINIMUM DRY DENSITY RATIO (M.D.D.R.) COMPACTION STANDARDS:
- ALLOTMENTS = 98% STD
 - ROAD VERGES/EMBANKMENTS = 98% STD
 - PAVEMENT SUBGRADE = 98% STD (70% DENSITY INDEX FOR COHESIONLESS MATERIALS)
- EW14. ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOP SOILED TO A MINIMUM DEPTH OF 100mm AND TURFED OR SEEDED WITH A MINIMUM STRIKE RATE OF 80% PRIOR TO PRACTICAL COMPLETION INSPECTION.
- EW15. ALL TEMPORARY STOCKPILES (IF APPLICABLE) TO HAVE 1:6 MAXIMUM SIDE BATTERS (GRASS SEEDED). NO TEMPORARY STOCKPILES SHALL BE PLACED WITHIN 10m OF A FLOODWAY.

ROADWORKS NOTES

- RD1. THE CONTRACTOR SHALL ESTABLISH THE LOCATION, LINE & LEVEL OF ALL PUBLIC AND PRIVATE UTILITY SERVICES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. WHERE UTILITY SERVICES ARE SHOWN ON THE PLANS, THEY ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR ONLY. THE PRINCIPAL SHALL NOT BE LIABLE FOR ANY OMISSION OF SERVICES FROM THE PLANS OR THE ACCURACY OF ANY SERVICES SHOWN ON THE PLANS.
- RD2. SURFACE LEVELS OVER THE SITE HAVE BEEN INTERPOLATED THROUGH COMPUTER MODELING OF FIELD SURVEY DATA. THESE CALCULATED LEVELS MAY VARY FROM THE ACTUAL GROUND LEVEL.
- RD3. ALL CONSTRUCTION LEVELS SHALL BE SET BY THE CONTRACTOR WITH REFERENCE TO SURVEYED BENCH MARKS PROVIDED BY THE PRINCIPAL'S APPOINTED SURVEYOR.
- RD4. ALL KERBING SHALL CONFORM TO RELEVANT CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES STANDARD DRAWINGS.
- RD5. ALL ROADSIDE VERGE AREAS AND BATTERS SHALL BE TOP SOILED TO A MINIMUM DEPTH OF 100mm (LIGHTLY COMPACTED) AND TURFED OR SEEDED.
- RD6. PAVEMENT MARKINGS AND SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE QUEENSLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

DRAINAGE NOTES

- DN1. THE CONTRACTOR SHALL CONFIRM ALL LEVELS BEFORE COMMENCING WORK.
- DN2. ALL EXISTING UNDERGROUND SERVICES TO BE LOCATED AND MARKED PRIOR TO COMMENCING EARTHWORKS.
- DN3. PIPE BEDDING AND BACKFILL ARE IN ACCORDANCE WITH CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES, SPECIFICATION AND/OR STANDARD DRAWINGS.
- DN4. MATERIALS AND CONSTRUCTION ARE IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATION FOR STORMWATER DRAINAGE.
- DN5. REINFORCED CONCRETE DRAINAGE PIPES UP TO 600 Ø SHALL BE RUBBER JOINTED CLASS 4 RCP'S UNLESS NOTED OTHERWISE.
- DN6. REINFORCED CONCRETE DRAINAGE PIPES 675 Ø OR LARGER SHALL BE FLUSH JOINTED CLASS 3 RCP'S UNLESS NOTED OTHERWISE.
- DN7. STORMPRO (PPE, RRJ, MINIMUM CLASS SN8), OR APPROVED EQUIVALENT, MAY BE ACCEPTED WITH SITE SPECIFIC COUNCIL APPROVAL. TRENCH WIDTHS AND BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-030 AND AS2566.2. COMPACTION OF BEDDING AND BACKFILL MATERIAL SHALL BE MINIMUM 90% MMDD IN ACCORDANCE WITH AS2566.2. HDPE PIPES SHALL BE OVALITY TESTED PRIOR TO PRACTICAL COMPLETION WITH COUNCIL, TO DEMONSTRATE <7.5% DEFORMATION.
- DN8. FIBRE REINFORCED CONCRETE DRAINAGE PIPES SHALL NOT BE PERMITTED.
- DN9. ALL STORMWATER BEDDING SHALL BE TYPE 'H2'.
- DN10. FILL BETWEEN TWIN BOX CULVERTS TO BE DRY LEAN MIX.
- DN11. BITUTHENE TAPE TO BE USED ON BOX CULVERT JOINTS.
- DN12. DE-WATERING WHERE REQUIRED TO BE AT THE CONTRACTORS COST.
- DN13. INVERT LEVELS SHOWN ON PLAN ARE AT PIPE/STRUCTURE JUNCTION.
- DN14. NOMINAL COVER TO RCP'S IS 600mm IN ROADWAYS AND 400mm IN LANDSCAPED AREAS. NOMINAL COVER TO RCBC'S ARE 300mm IN ROADWAYS.
- DN15. THE CONTRACTOR IS TO ENSURE THE METHOD OF COMPACTION OF THE BACKFILL IS SUITABLE FOR THE CLASS OF PIPE INDICATED ON THE DRAWINGS.
- DN16. LIDS TO CAST-IN-SITU MANHOLES ARE HEAVY DUTY, CLOSE FITTING BOLT DOWN CAST IRON OR GALVANISED STEEL, CONCRETE INFILL TYPE (GATIC LIGHT DUTY, POLYCRETE BROADSTEL OR SIMILAR) OF APPROXIMATELY THE SAME INTERNAL DIMENSIONS AS THE MANHOLE.
- DN17. ALL STEEL GRATES AND FRAMES TO BE HOT DIPPED GALVANIZED AND SHALL BE CYCLE PROOF IN ACCORDANCE WITH AS 3996.
- DN18. LIDS MATCH FINISHED SURFACE GROUND SLOPE AND SIT PROUD AS SHOWN ON THE LOCAL AUTHORITIES STANDARD AND ARE MARKED "STORMWATER" IMPRESSED INTO THE CONCRETE INFILL. INFILL CONCRETE IS CLASS N25.
- DN19. UPVC PIPE AND KERB ADAPTORS ARE USED WHERE DISCHARGE IS INTO THE KERB AND CHANNEL.

UNDERGROUND SERVICES

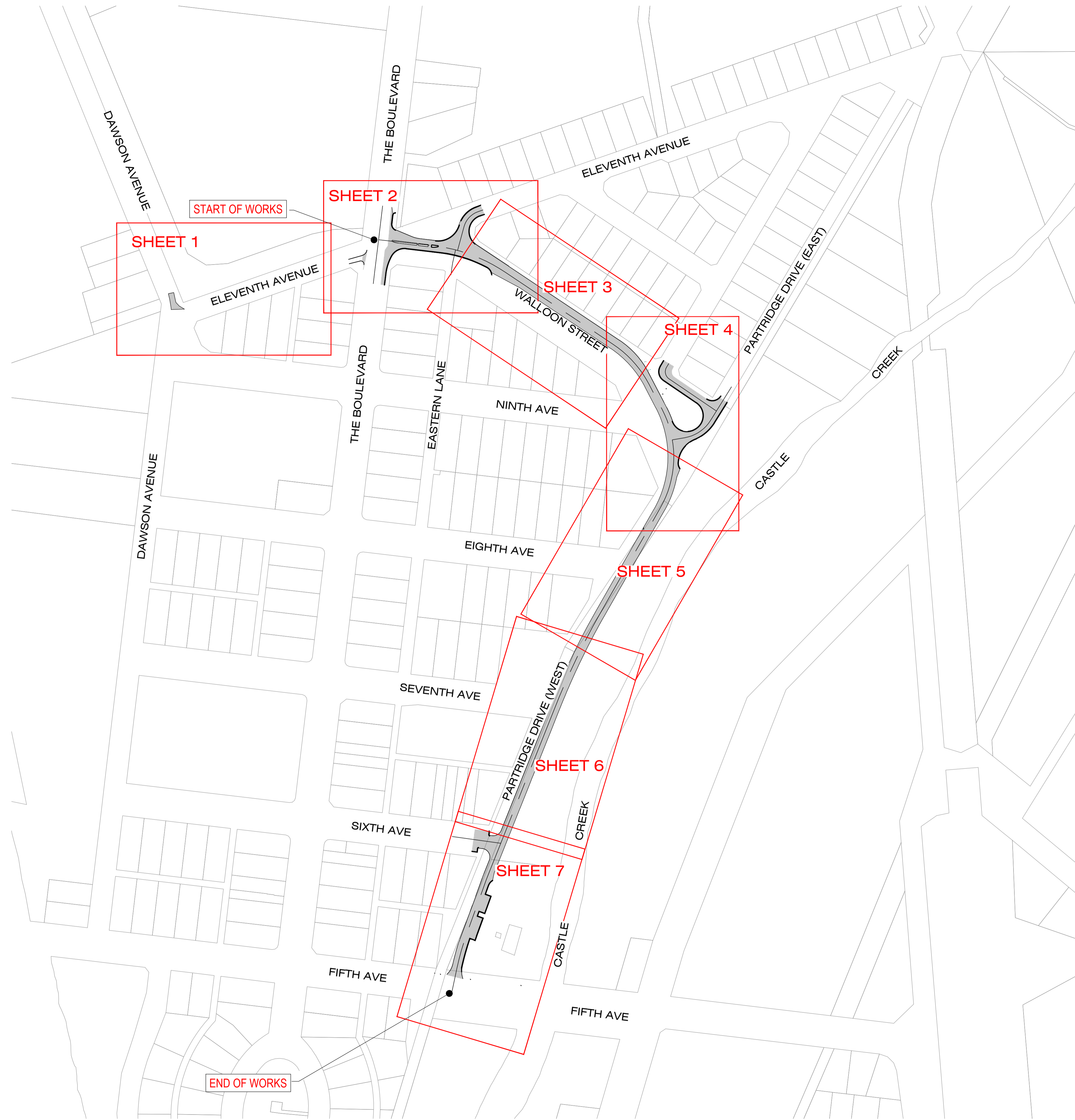
- US1. UNDERGROUND SERVICES HAVE BEEN LOCATED ONLY WHERE OBVIOUS. SOME SERVICES THAT WERE NOT OBVIOUS AND ARE NOT SHOWN ON THE DRAWINGS MAY STILL BE PRESENT. IT IS THE RESPONSIBILITY OF ANY PERSON EXCAVATING / BUILDING ON, OR ADJACENT TO THE SITE TO CONFIRM WITH THE RELEVANT AUTHORITY THE LOCATION OF SERVICES.
- US2. NEITHER THE PRINCIPAL OR THE CONSULTING ENGINEER EXCEPTS RESPONSIBILITY FOR DAMAGE TO SERVICES SHOWN OR NOT SHOWN ON THE DESIGN DRAWINGS.
- US3. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DAMAGE INCURRED TO EXISTING UTILITY SERVICES AS A RESULT OF THE EXECUTION OF WORK UNDER THE CONTRACT. ANY DAMAGE TO EXISTING SERVICES (WHETHER IDENTIFIED ON DRAWINGS OR NOT) SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- US4. BEFORE YOU DIG AUSTRALIA TO BE CONTACTED FOR THE LOCATION OF EXISTING PUBLIC UTILITIES PRIOR TO EXCAVATION.



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				DESIGN CS				WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS GENERAL NOTES							
				DRAWN CS											
				DESIGN CHECK SS											
						Director: TONY SHELLEY (RPEQ 7736)		Scale AS SHOWN		Dwg. No. 2320-002		Sheet 2 OF 85		Issue 1	
1		ISSUE FOR CONSTRUCTION		17.11.2023											
No.		Revision		Date											

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THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY IDENTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	15.11.2023



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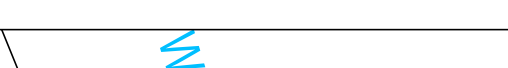
Tony Shelley
 Director: TONY SHELLEY
 (RPEQ 7736)



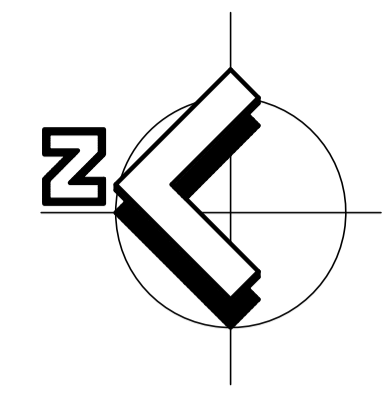
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS OVERALL LAYOUT AND KEY PLAN			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-003	3 OF 03	1

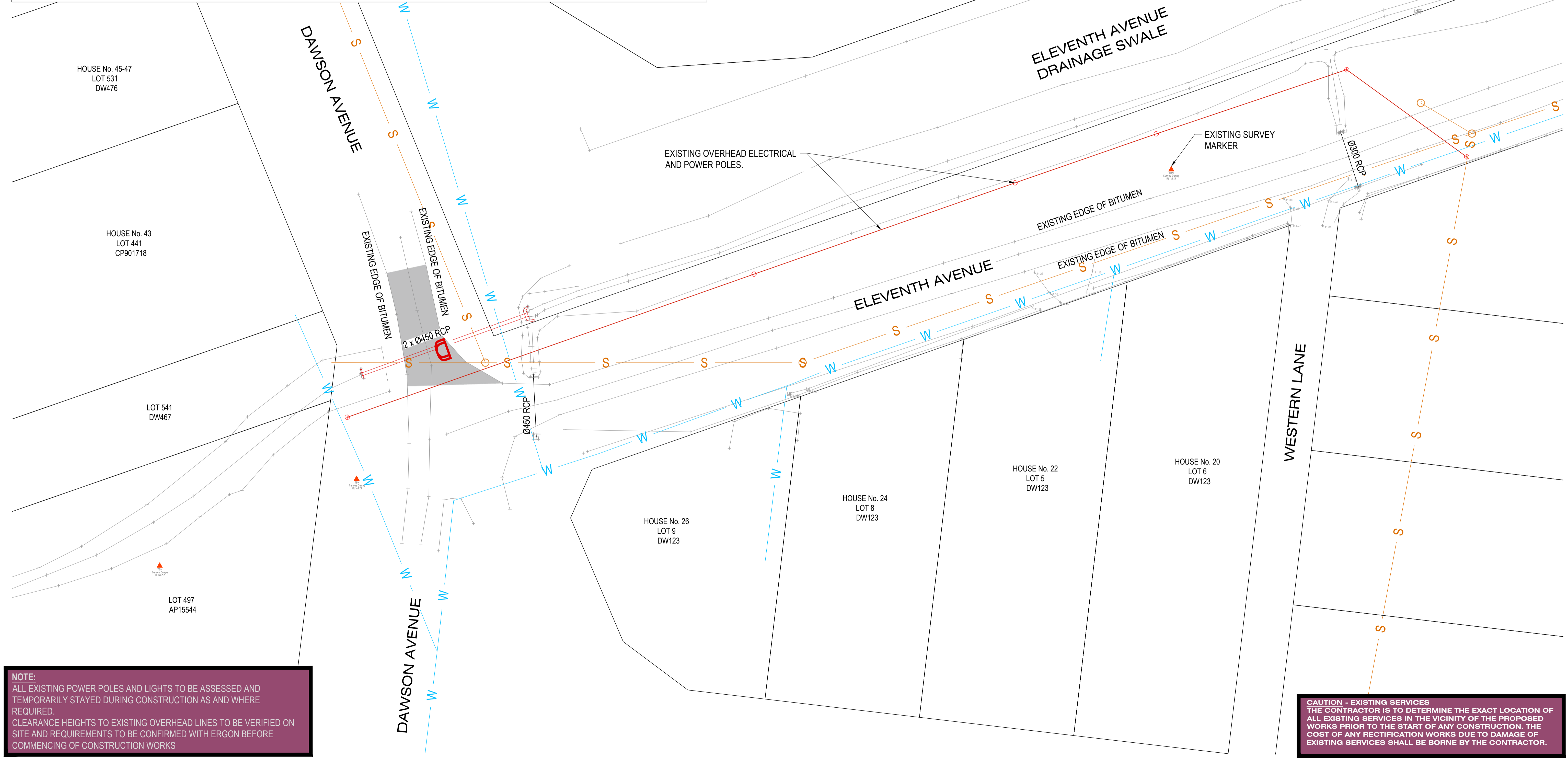
LEGEND

-  EXISTING TO BE REMOVED
-  EXISTING PROPERTY BOUNDARY
-  EXISTING BITUMEN
-  EXISTING WATER
-  EXISTING WATER TO BE DEMOLISHED
-  EXISTING SEWER
-  EXISTING DRAINAGE TO BE RETAINED
-  EXISTING DRAINAGE TO BE DEMOLISHED
-  EXISTING ELECTRICITY
-  EXISTING IRRIGATION
-  EXISTING TELECOMMUNICATIONS
-  EXISTING TOP OF BANK
-  EXISTING FENCE
-  EXISTING SWALE
-  EXISTING KERB & CHANNEL
-  EXISTING TREE
-  EXISTING SIGN
-  EXISTING BOLLARD / GUIDANCE POST

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LOT 278
DW304



NOTE:
ALL EXISTING POWER POLES AND LIGHTS TO BE ASSESSED AND TEMPORARILY STAYED DURING CONSTRUCTION AS AND WHERE REQUIRED.
CLEARANCE HEIGHTS TO EXISTING OVERHEAD LINES TO BE VERIFIED ON SITE AND REQUIREMENTS TO BE CONFIRMED WITH ERGON BEFORE COMMENCING OF CONSTRUCTION WORKS

CAUTION - EXISTING SERVICES
THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	15.11.2023



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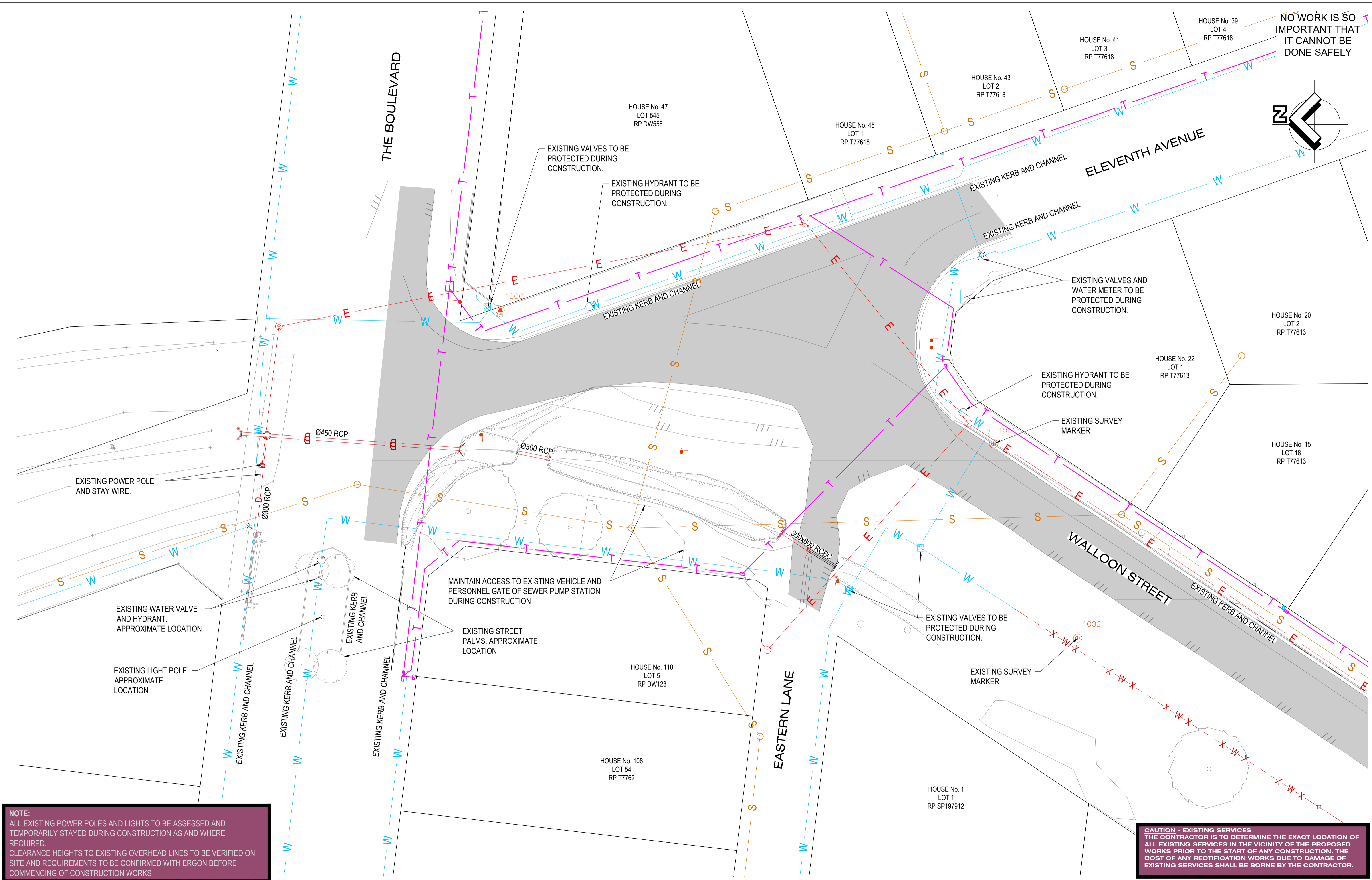
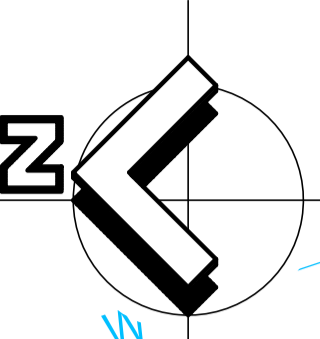
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EXISTING FEATURES LAYOUT PLAN SHEET 1 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-004	4 OF 83	1

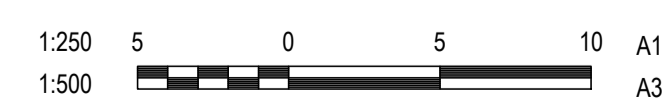
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NOTE:
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CAUTION - EXISTING SERVICES
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1	ISSUE FOR CONSTRUCTION	15.11.2023



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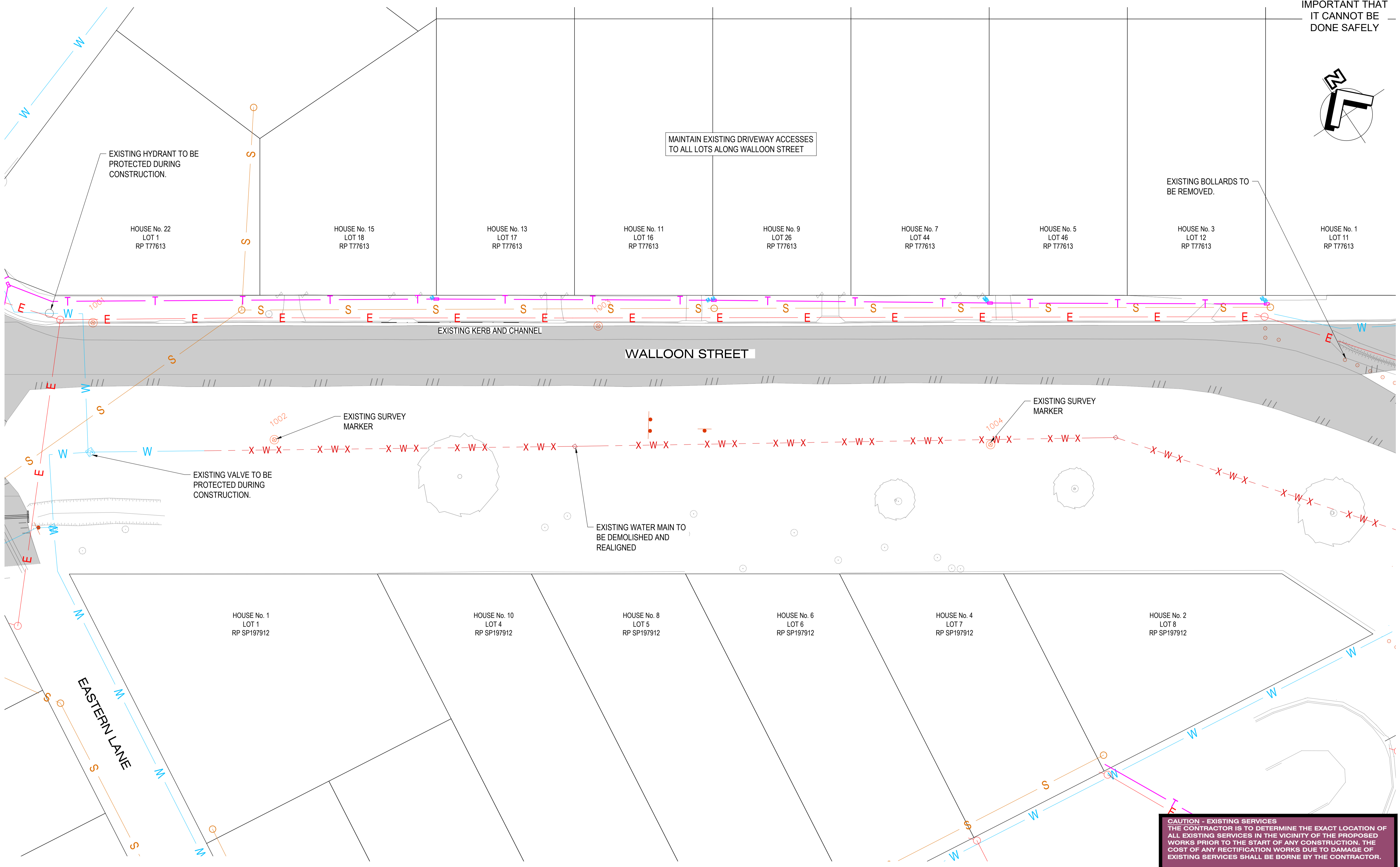
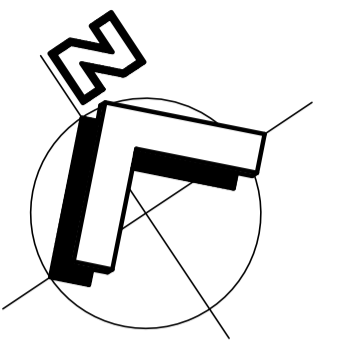
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 EXISTING FEATURES LAYOUT PLAN SHEET 2 OF 7

Scale AS SHOWN
 Dwg. No. 2320-005
 Sheet 5 OF 03
 Issue 1

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CAUTION - EXISTING SERVICES
 THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

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Banana SHIRE
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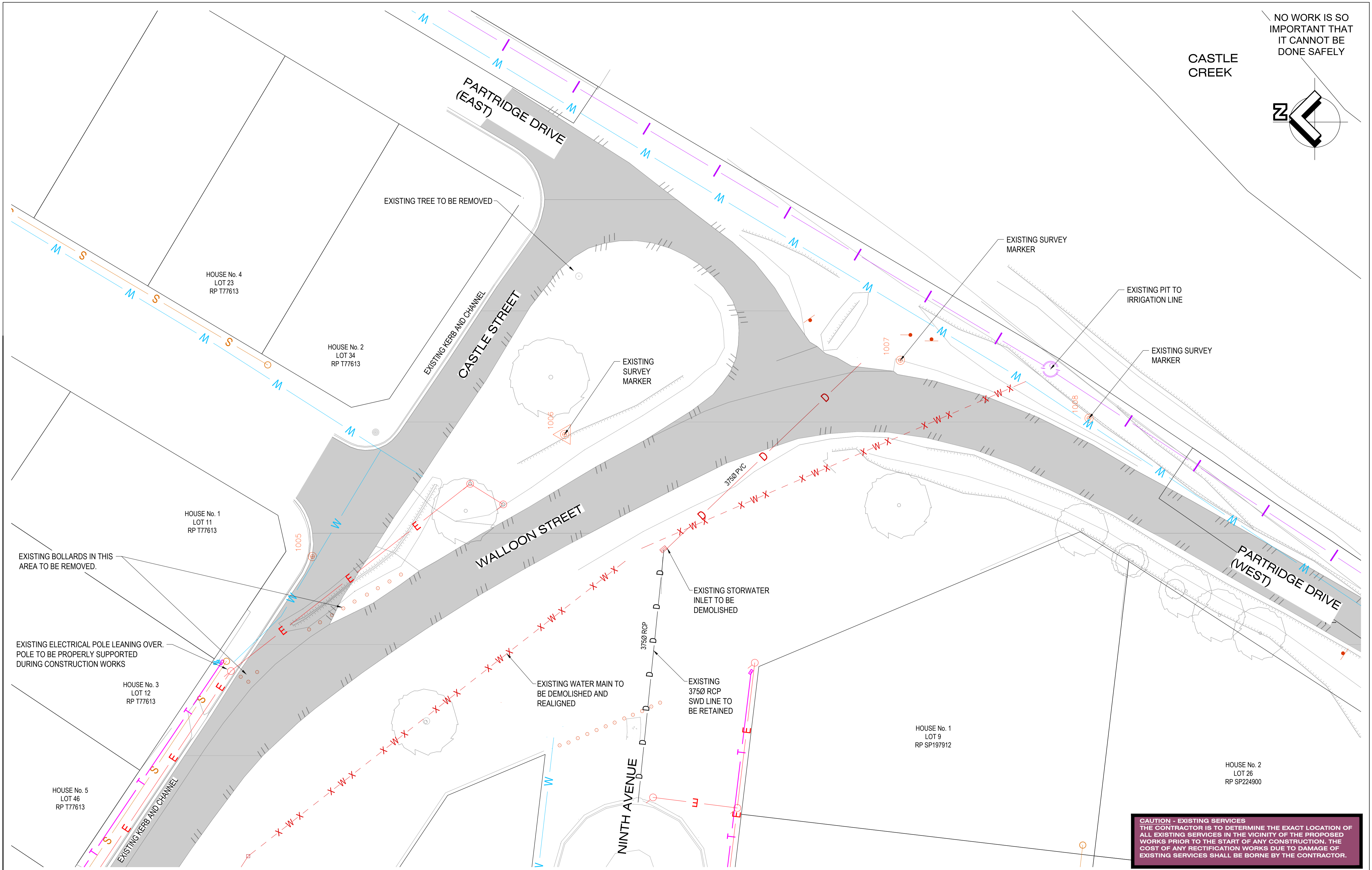
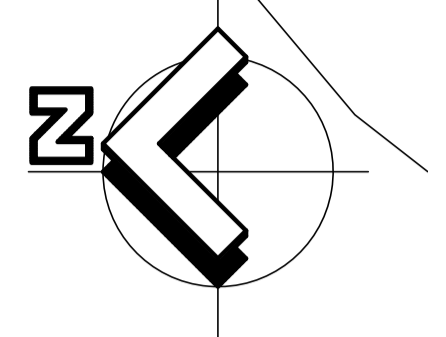
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EXISTING FEATURES LAYOUT PLAN SHEET 3 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-006	6 OF 83	1

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

CASTLE CREEK



CAUTION - EXISTING SERVICES
 THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	15.11.2023



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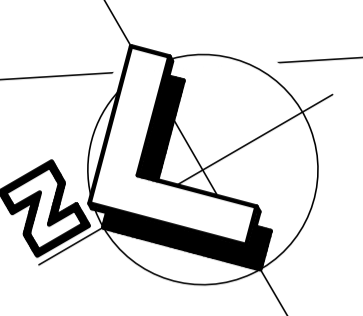
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 EXISTING FEATURES LAYOUT PLAN SHEET 4 OF 7

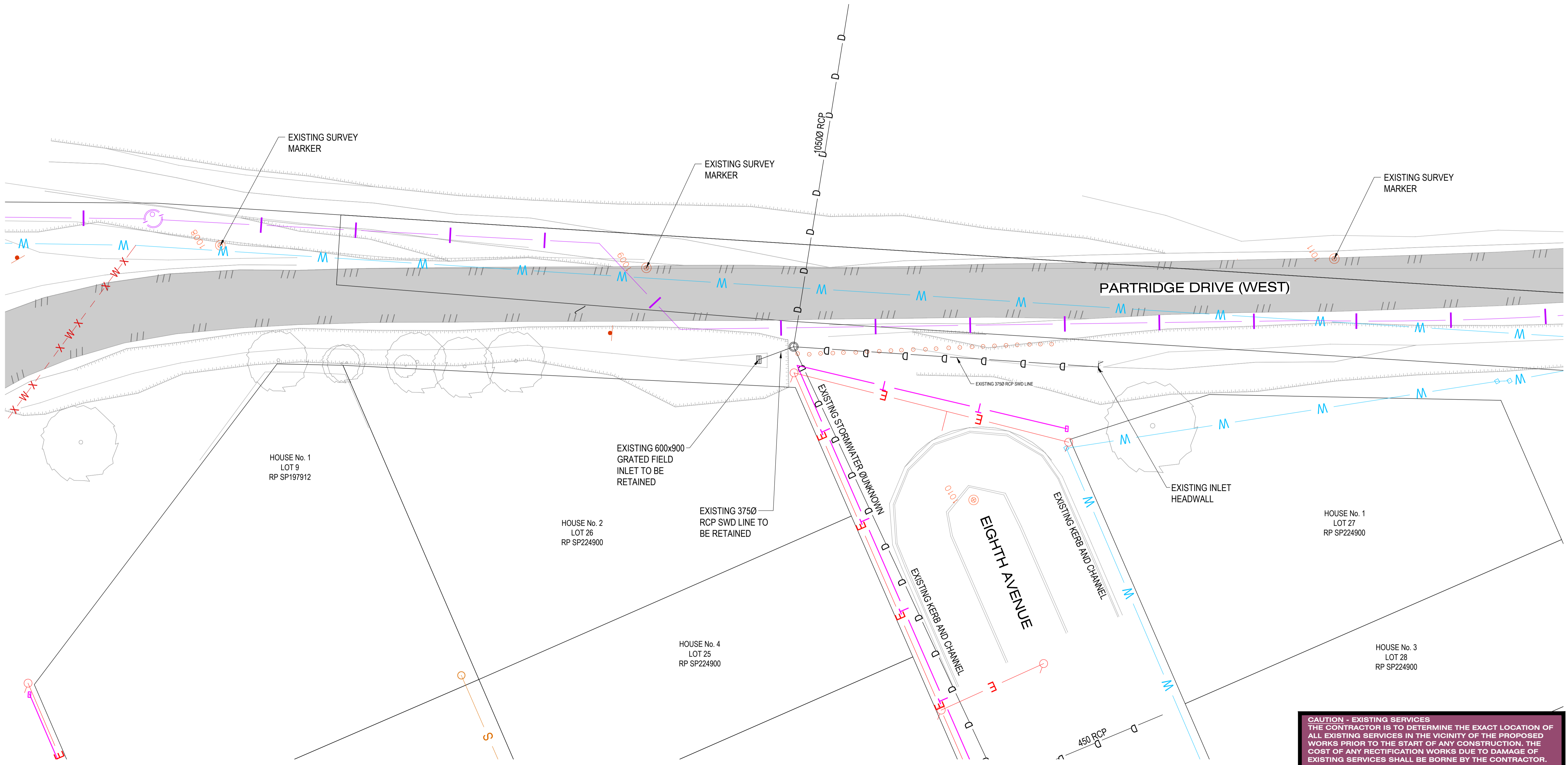
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-007	7 OF 83	1

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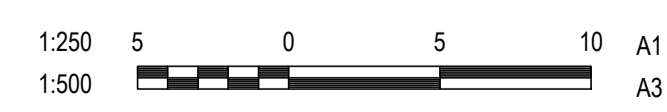
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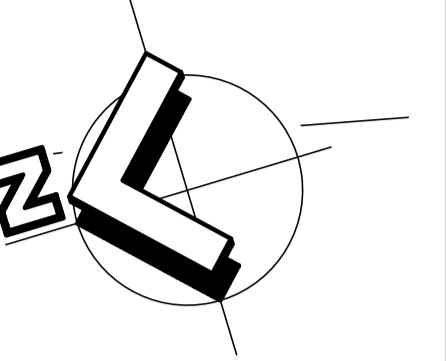
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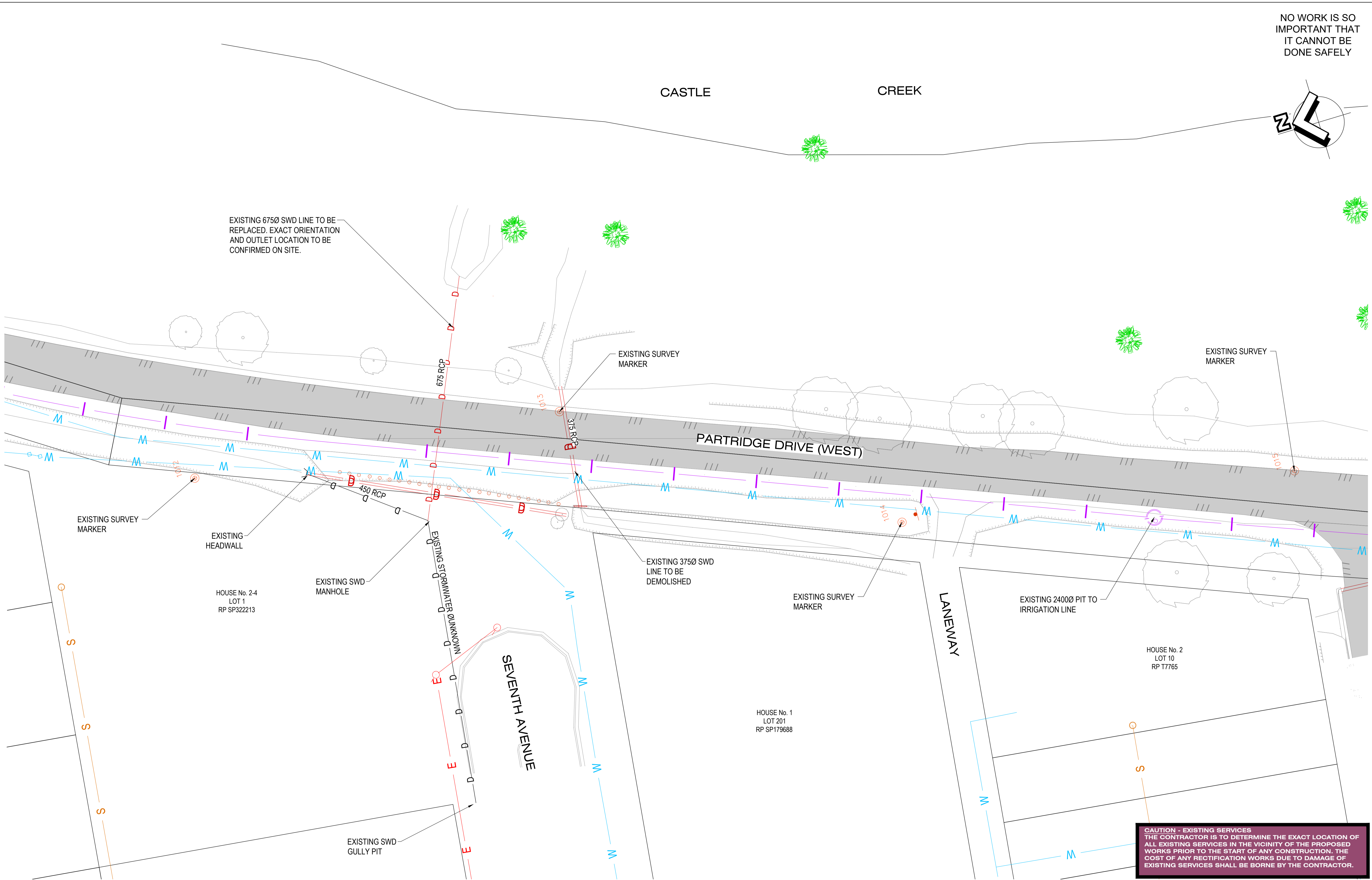
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EXISTING FEATURES LAYOUT PLAN SHEET 5 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-008	8 OF 83	1

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EXISTING 675Ø SWD LINE TO BE REPLACED. EXACT ORIENTATION AND OUTLET LOCATION TO BE CONFIRMED ON SITE.



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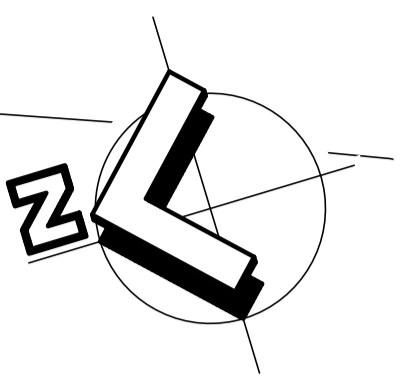
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 EXISTING FEATURES LAYOUT PLAN SHEET 6 OF 7

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-009	9 OF 83	1

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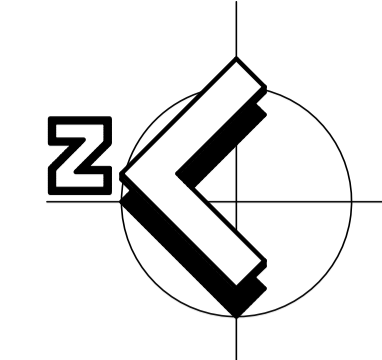
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 EXISTING FEATURES LAYOUT PLAN SHEET 7 OF 7

Scale AS SHOWN Dwg. No. 2320-010 Sheet 10 OF 83 Issue 1

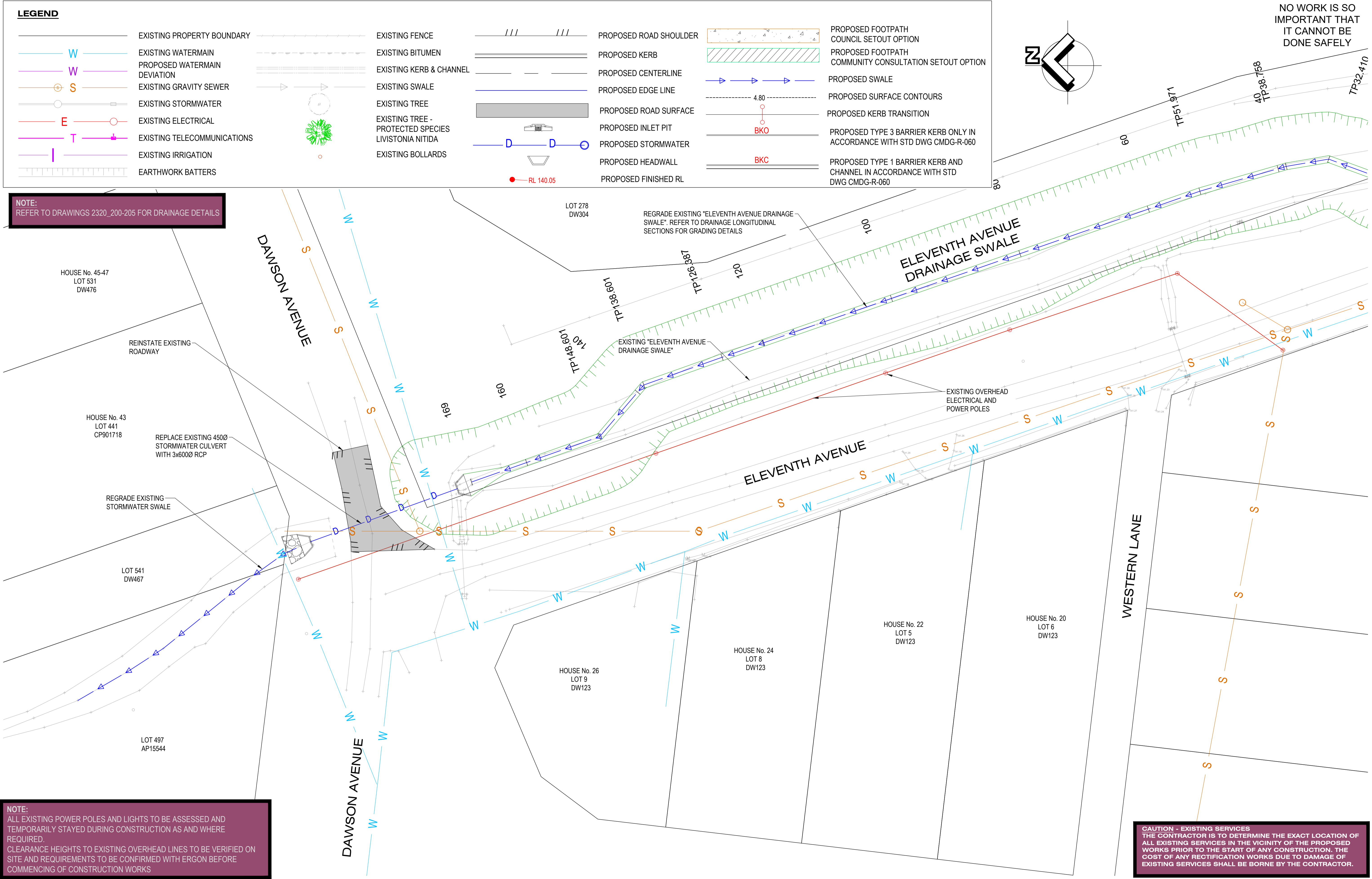
LEGEND

	EXISTING PROPERTY BOUNDARY		EXISTING FENCE		PROPOSED ROAD SHOULDER		PROPOSED FOOTPATH COUNCIL SETOUT OPTION
	EXISTING WATERMAIN		EXISTING BITUMEN		PROPOSED KERB		PROPOSED FOOTPATH COMMUNITY CONSULTATION SETOUT OPTION
	PROPOSED WATERMAIN DEVIATION		EXISTING KERB & CHANNEL		PROPOSED CENTERLINE		PROPOSED SWALE
	EXISTING GRAVITY SEWER		EXISTING SWALE		PROPOSED EDGE LINE		PROPOSED SURFACE CONTOURS
	EXISTING STORMWATER		EXISTING TREE		PROPOSED ROAD SURFACE		PROPOSED KERB TRANSITION
	EXISTING ELECTRICAL		EXISTING TREE - PROTECTED SPECIES LIVISTONIA NITIDA		PROPOSED INLET PIT		PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060
	EXISTING TELECOMMUNICATIONS		EXISTING BOLLARDS		PROPOSED STORMWATER		PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060
	EXISTING IRRIGATION				PROPOSED HEADWALL		
	EARTHWORK BATTERS				PROPOSED FINISHED RL		



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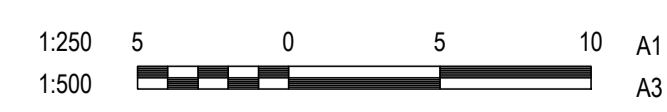
NOTE:
REFER TO DRAWINGS 2320_200-205 FOR DRAINAGE DETAILS



NOTE:
ALL EXISTING POWER POLES AND LIGHTS TO BE ASSESSED AND TEMPORARILY STAYED DURING CONSTRUCTION AS AND WHERE REQUIRED.
CLEARANCE HEIGHTS TO EXISTING OVERHEAD LINES TO BE VERIFIED ON SITE AND REQUIREMENTS TO BE CONFIRMED WITH ERGON BEFORE COMMENCING OF CONSTRUCTION WORKS

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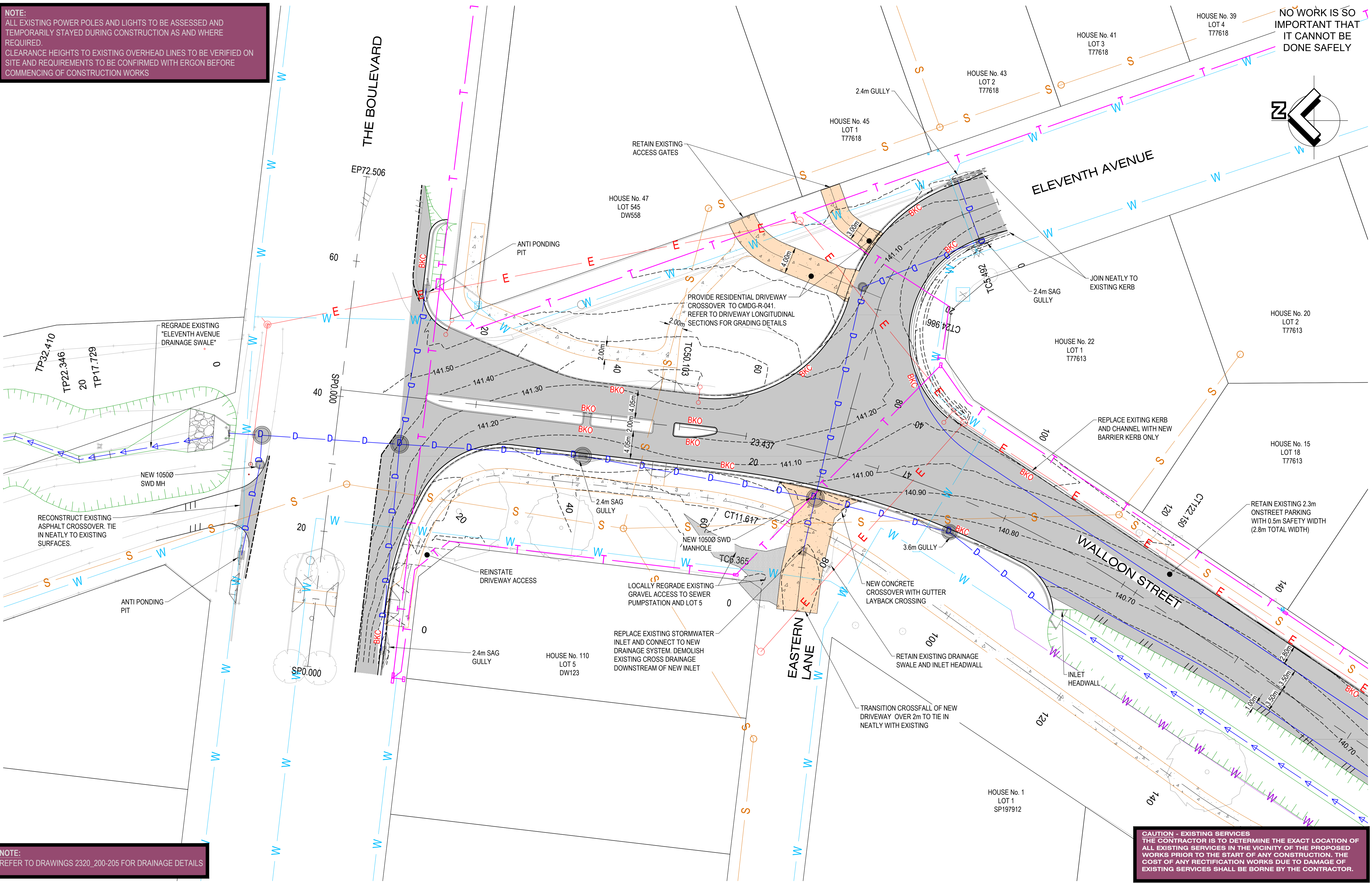
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROADWORKS LAYOUT PLAN SHEET 1 OF 7

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-100	11 OF 85	1

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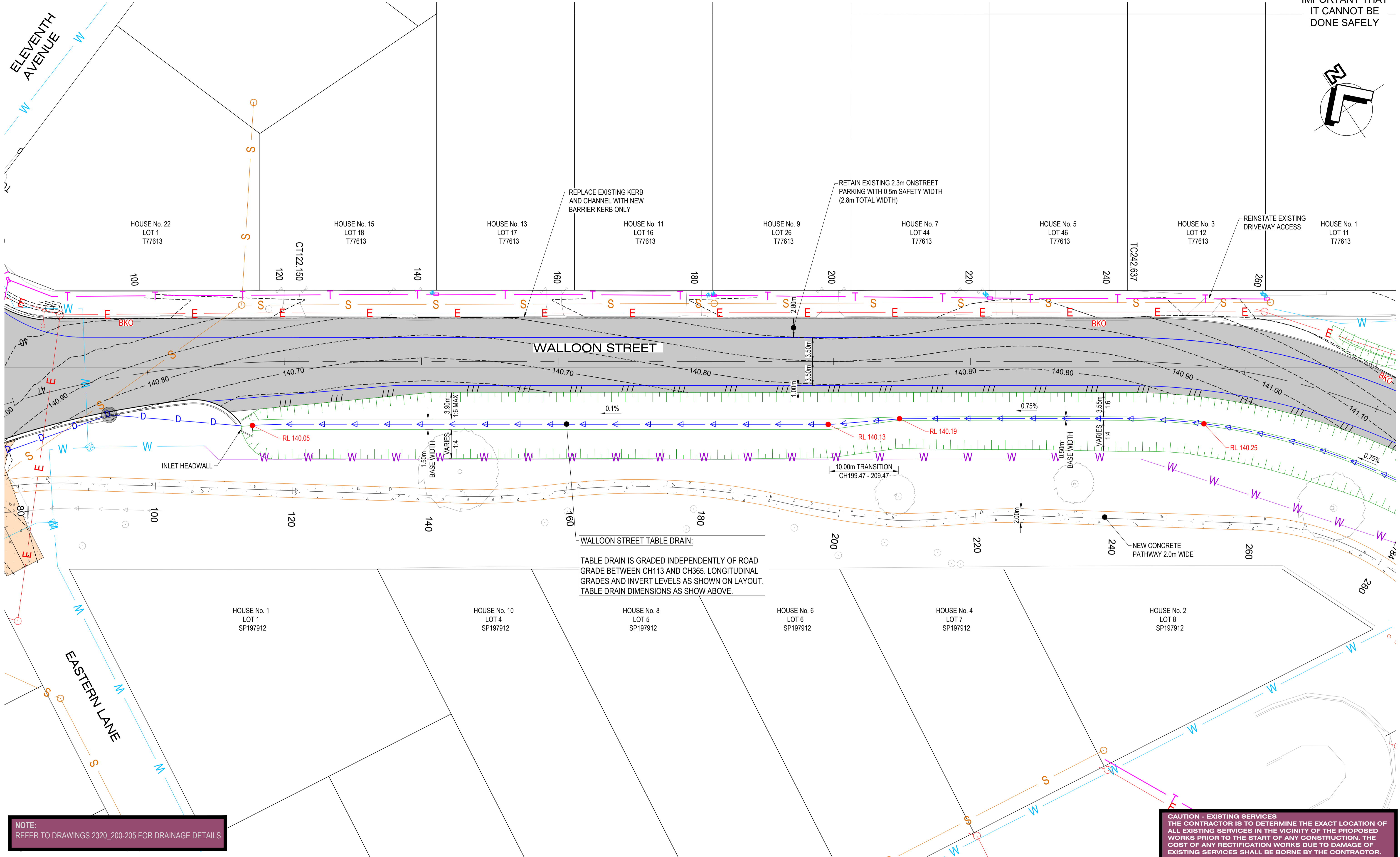
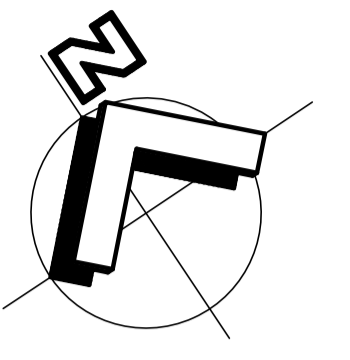
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS ROADWORKS LAYOUT PLAN SHEET 2 OF 7	
Scale AS SHOWN	Dwg. No. 2320-101
Sheet 12 OF 85	Issue 1

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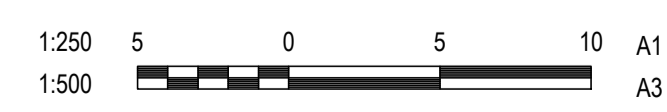


WALLOON STREET TABLE DRAIN:
 TABLE DRAIN IS GRADED INDEPENDENTLY OF ROAD GRADE BETWEEN CH113 AND CH365. LONGITUDINAL GRADES AND INVERT LEVELS AS SHOWN ON LAYOUT. TABLE DRAIN DIMENSIONS AS SHOWN ABOVE.

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NOTE:
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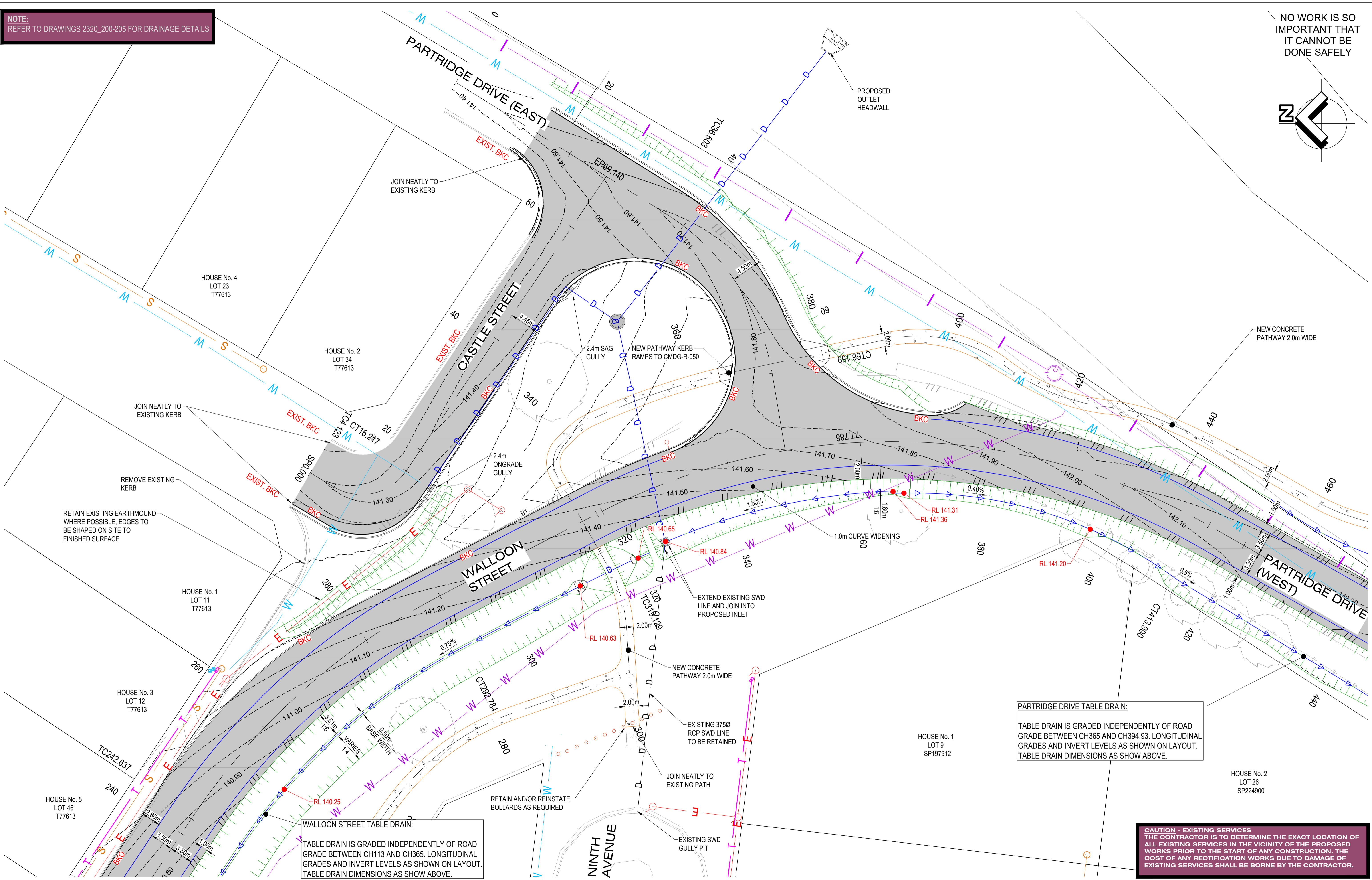
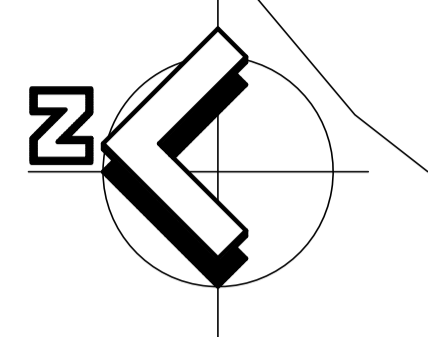


WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 ROADWORKS LAYOUT PLAN SHEET 3 OF 7

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-102	13 OF 85	1

NOTE:
REFER TO DRAWINGS 2320_200-205 FOR DRAINAGE DETAILS

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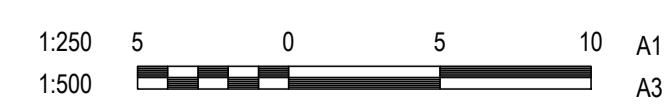


WALLOON STREET TABLE DRAIN:
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PARTRIDGE DRIVE TABLE DRAIN:
TABLE DRAIN IS GRADED INDEPENDENTLY OF ROAD GRADE BETWEEN CH365 AND CH394.93. LONGITUDINAL GRADES AND INVERT LEVELS AS SHOWN ON LAYOUT. TABLE DRAIN DIMENSIONS AS SHOW ABOVE.

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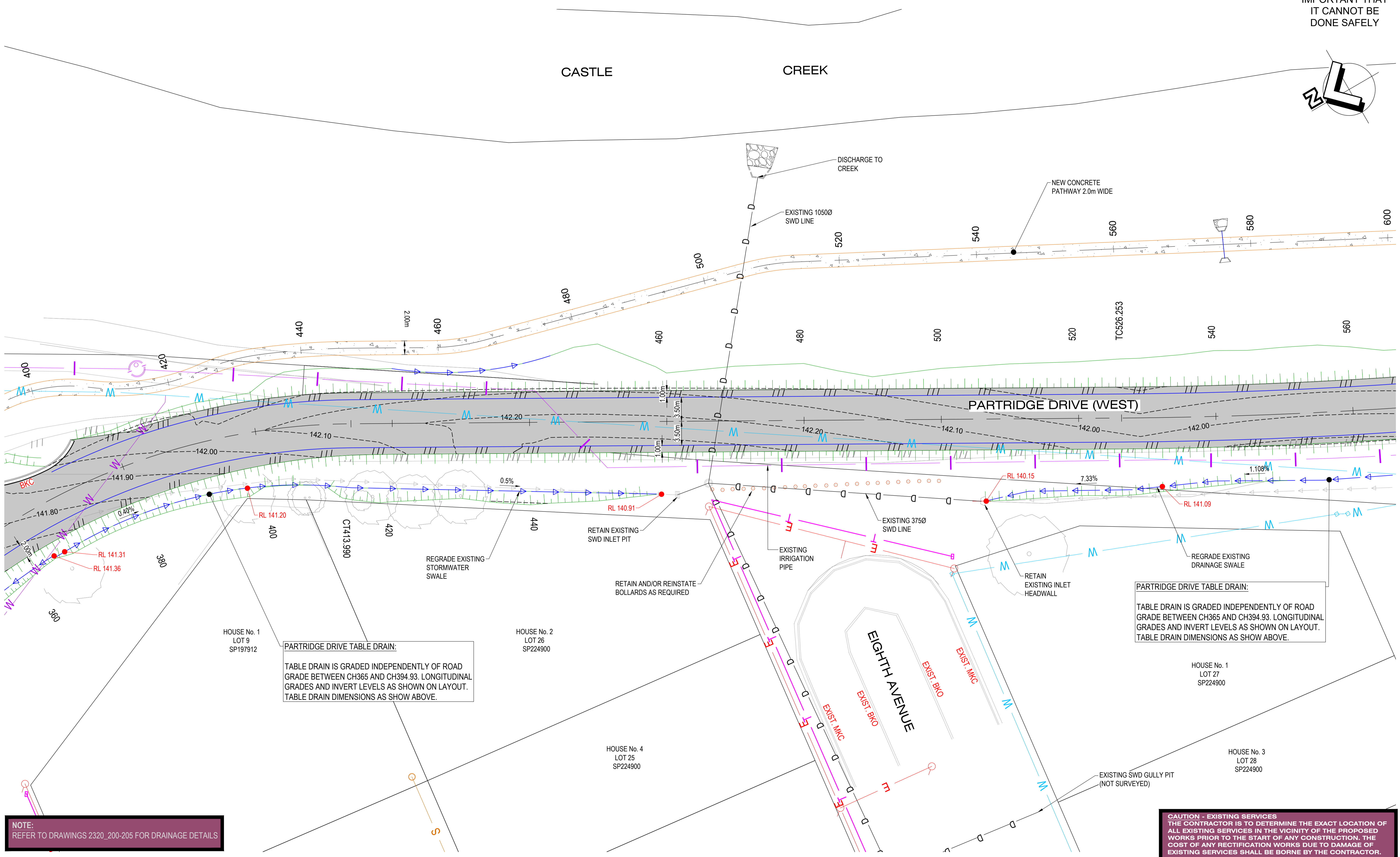
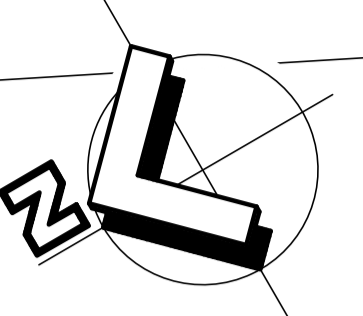
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS ROADWORKS LAYOUT PLAN SHEET 4 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-103	14 OF 85	1

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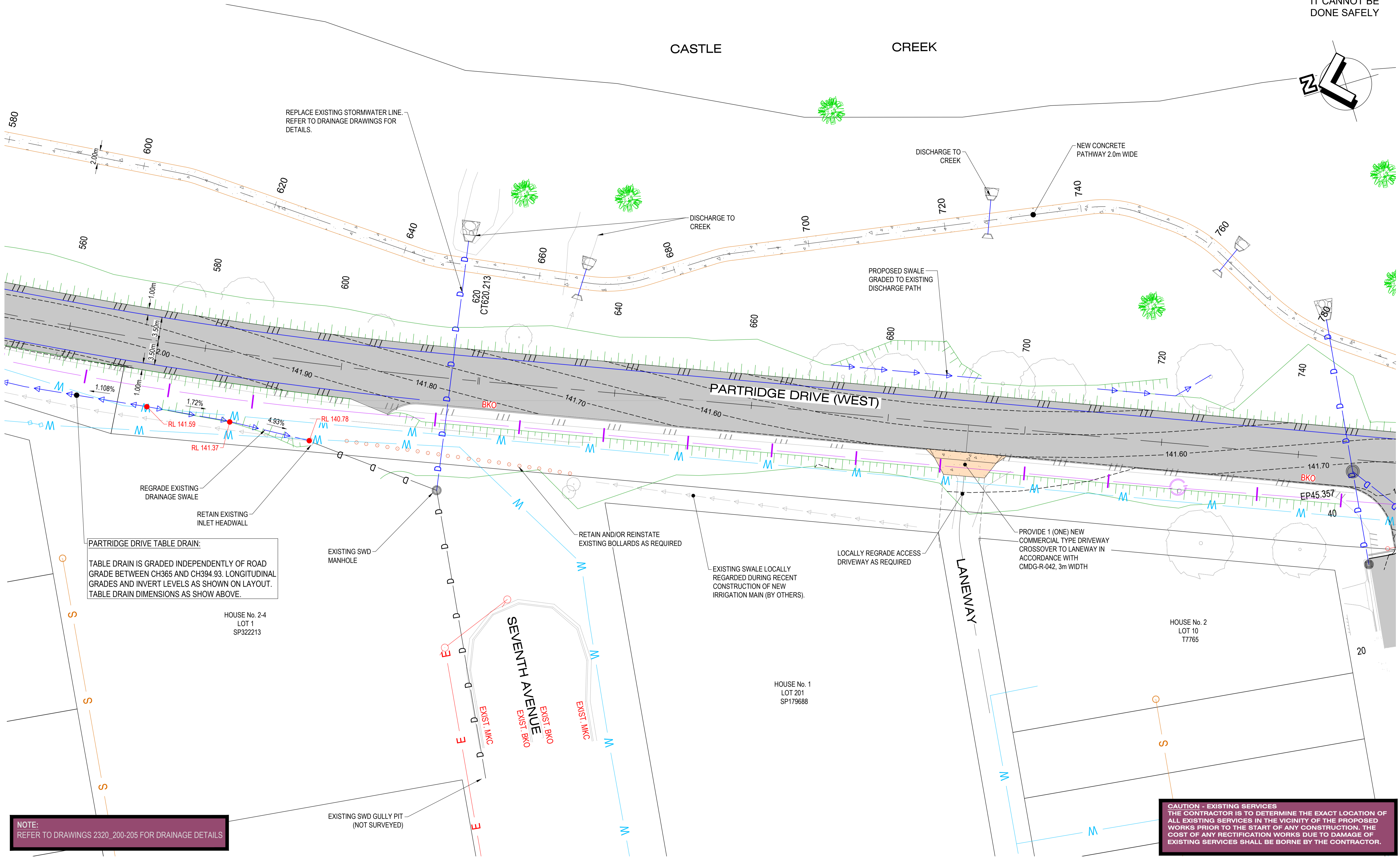
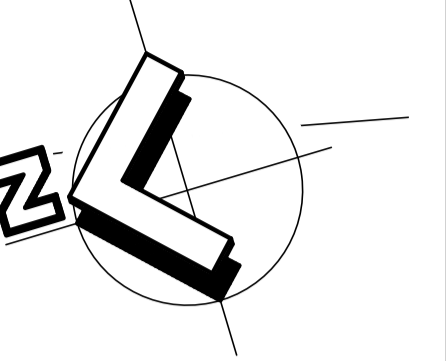
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROADWORKS LAYOUT PLAN SHEET 5 OF 7

Scale AS SHOWN
Dwg. No. 2320-104
Sheet 15 OF 85
Issue 1

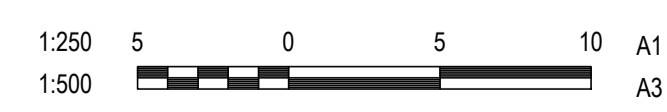
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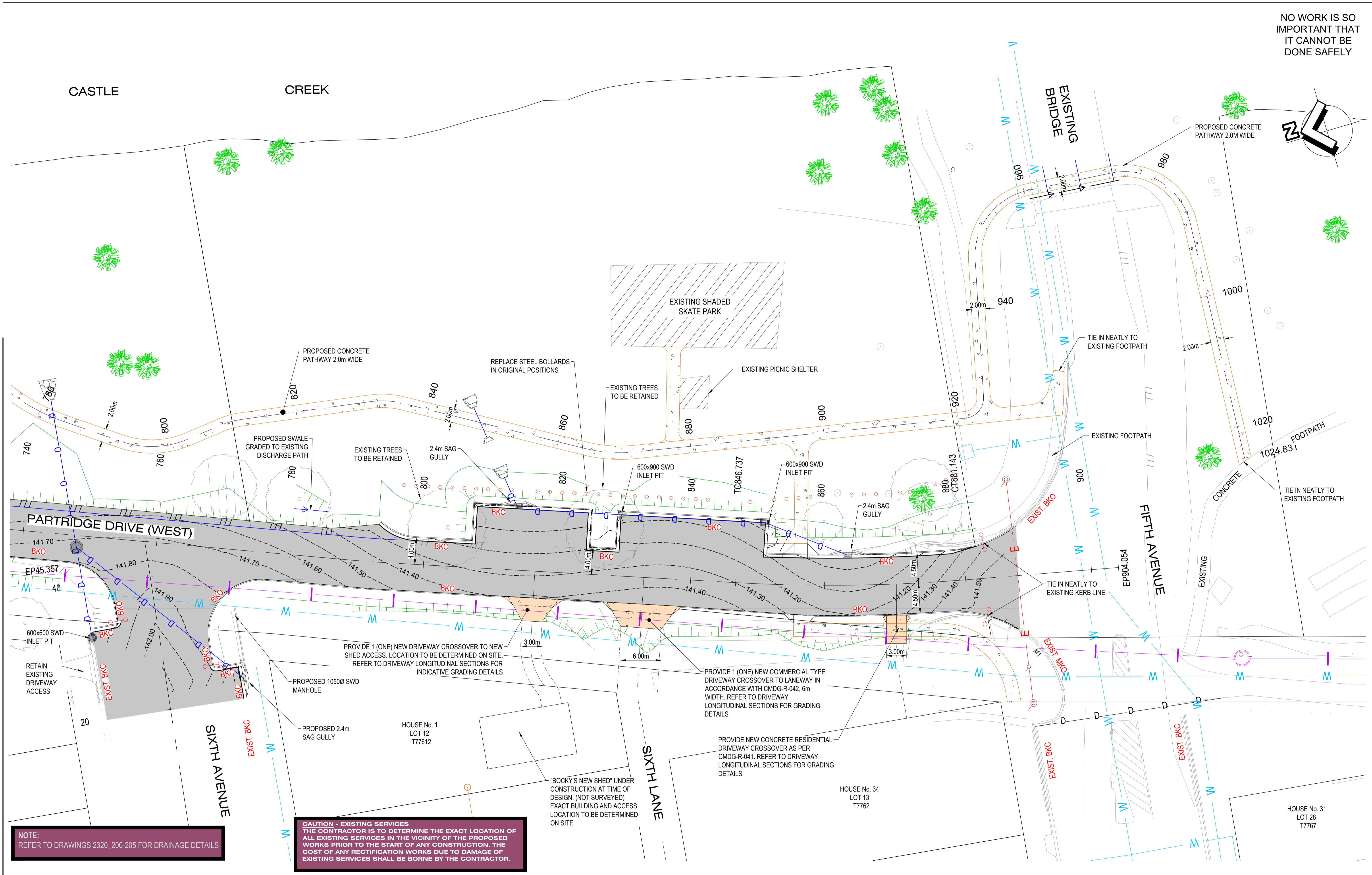
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS ROADWORKS LAYOUT PLAN SHEET 6 OF 7	
Scale AS SHOWN	Dwg. No. 2320-105
Sheet 16 OF 85	Issue 1

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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS ROADWORKS LAYOUT PLAN SHEET 7 OF 7	
Scale AS SHOWN	Dwg. No. 2320-106
Sheet 17 OF 85	Issue 1

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CONTROL LINE SETOUT -
WALLOON STREET / PARTRIDGE DRIVE (WEST)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	204772.101	7238359.661	96°13'35.82"			
TC	50.103	204821.909	7238354.226	96°13'35.82"			
IP 2	86.127	204858.424	7238350.242		R = 150.000	72.047	27°31'11.42"
CT	122.150	204888.967	7238329.837	123°44'47.23"			
TC	242.637	204989.152	7238262.904	123°44'47.23"			
IP 3	267.710	205010.449	7238248.676		R = 100.000	50.147	28°43'56.08"
CT	292.784	205022.285	7238225.962	152°28'43.31"			
TC	319.129	205034.458	7238202.598	152°28'43.31"			
IP 4	366.560	205058.398	7238156.652		R = 95.000	94.862	57°12'44.10"
CT	413.990	205032.736	7238111.645	209°41'27.41"			
TC	526.253	204977.130	7238014.122	209°41'27.41"			
IP 5	573.233	204953.822	7237973.245		R = -680.500	93.960	7°54'40.15"
CT	620.213	204936.363	7237929.548	201°46'47.26"			
IP 6	792.202	204872.548	7237769.836				
TC	846.737	204853.980	7237718.561	199°54'23.96"			
IP 7	863.940	204848.113	7237702.360		R = -250.000	34.406	7°53'07.20"
CT	881.143	204844.524	7237685.507	192°01'16.76"			
IP 8	904.052	204839.753	7237663.100	192°01'16.76"			

CONTROL LINE SETOUT - CASTLE STREET

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	205040.567	7238245.232	210°50'03.78"			
TC	4.123	205038.453	7238241.692	210°50'03.78"			
IP 2	10.170	205034.588	7238235.217		R = -8.000	12.094	86°36'58.74"
CT	16.217	205040.824	7238230.976	124°13'05.05"			
IP 3	69.141	205084.587	7238201.215	124°13'05.05"			

CONTROL LINE SETOUT - ELEVENTH AVENUE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	204868.727	7238387.286	249°44'38.59"			
TC	5.492	204863.575	7238385.384	249°44'38.59"			
IP 2	15.239	204853.631	7238381.714		R = -20.000	19.494	55°50'48.31"
CT	24.986	204851.085	7238371.425	193°53'50.28"			
IP 3	47.491	204845.680	7238349.579	193°53'50.28"			

CONTROL LINE SETOUT - EASTERN LANE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	204839.138	7238327.193	6°37'02.63"			
TC	6.365	204839.871	7238333.516	6°37'02.63"			
IP 2	8.991	204840.174	7238336.127		R = 50.000	5.252	6°01'06.00"
CT	11.617	204840.749	7238338.692	12°38'08.63"			
IP 3	23.507	204843.350	7238350.294	12°38'08.63"			

CONTROL LINE SETOUT - PARTRIDGE DR HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	205098.546	7238223.574	211°58'39.12"			
TC	36.603	205079.162	7238192.525	211°58'39.12"			
IP 2	51.381	205070.835	7238179.188		R = 35.000	29.556	48°23'00.48"
CT	66.159	205055.333	7238176.555	260°21'39.60"			
IP 3	77.789	205043.867	7238174.607	260°21'39.60"			

CONTROL LINE SETOUT - THE BOULEVARD

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	204767.213	7238318.990	6°51'10.52"
IP 2	72.507	204775.865	7238390.979	6°51'10.52"

CONTROL LINE SETOUT - SIXTH AVENUE

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	204840.232	7237807.636	97°18'31.77"
IP 2	33.413	204873.374	7237803.386	
IP 3	45.347	204885.127	7237801.318	99°58'47.12"

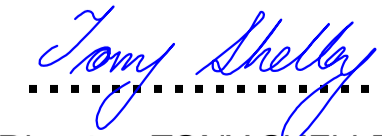
CONTROL LINE SETOUT -
ELEVENTH AVENUE DRAINAGE SWALE

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	204755.583	7238353.201	260°06'52.11"
IP 2	17.729	204738.117	7238350.157	
IP 3	22.346	204733.566	7238349.381	
IP 4	32.410	204724.116	7238352.842	
IP 5	38.758	204717.857	7238351.775	
IP 6	51.971	204705.159	7238348.123	
IP 7	126.387	204634.862	7238323.708	
IP 8	138.601	204623.348	7238319.634	
IP 9	148.601	204616.852	7238312.032	
IP 10	168.601	204597.997	7238305.360	250°30'48.98"

CONTROL LINE SETOUT - EXISTING DRAINAGE
SWALE, DAWSON LANE

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	204574.300	7238296.586	245°31'04.09"
IP 2	4.408	204570.289	7238294.759	
IP 3	10.404	204565.428	7238291.248	
IP 4	16.815	204560.462	7238287.193	
IP 5	26.855	204552.649	7238280.888	
IP 6	33.088	204547.421	7238277.495	
IP 7	41.566	204540.080	7238273.254	
IP 8	48.538	204533.606	7238270.664	
IP 9	54.095	204528.435	7238268.628	
IP 10	62.531	204522.160	7238262.991	228°04'06.14"

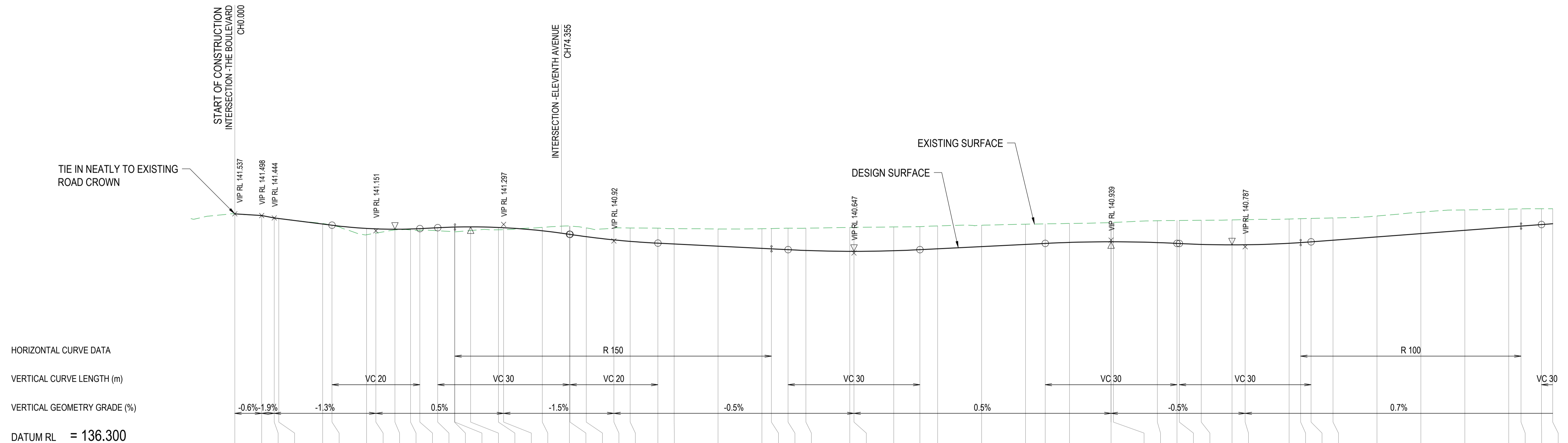
No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023

DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS
 Director: TONY SHELLEY (RPEQ 7736)	




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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS CONTROL LINE SETOUT TABLES			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-107	18 OF 85	1

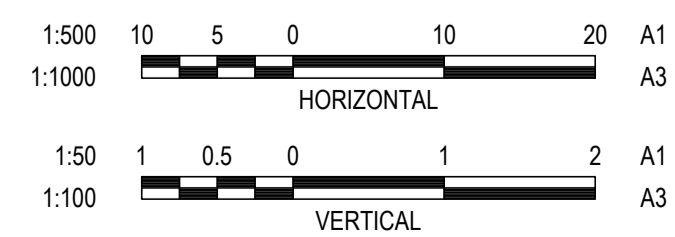


CUT / FILL DEPTH	DESIGN SURFACE LEVEL	NATURAL SURFACE LEVEL	CHAINAGE
0.000	141.537	141.537	0.000
0.000	141.498	141.498	6.108
0.000	141.444	141.444	8.981
-0.001	141.431	141.432	10.000
-0.011	141.305	141.316	20.000
0.002	141.278	141.276	22.114
0.144	141.206	141.082	30.000
0.097	141.196	141.099	32.114
0.015	141.187	141.173	36.447
0.021	141.193	141.172	40.000
0.044	141.201	141.157	42.114
0.069	141.222	141.153	46.182
0.105	141.236	141.131	50.000
0.106	141.236	141.130	50.103
0.083	141.241	141.158	53.682
0.052	141.227	141.175	60.000
0.044	141.222	141.177	61.182
-0.078	141.152	141.229	70.000
-0.187	141.072	141.259	76.182
-0.188	141.070	141.258	76.296
-0.199	141.018	141.217	80.000
-0.268	140.945	141.213	86.296
-0.304	140.911	141.216	90.000
-0.340	140.870	141.210	96.296
-0.348	140.852	141.200	100.000
-0.391	140.802	141.192	110.000
-0.447	140.752	141.199	120.000
-0.462	140.741	141.203	122.150
-0.489	140.722	141.210	125.947
-0.506	140.704	141.211	130.000
-0.544	140.684	141.228	140.000
-0.546	140.684	141.230	140.947
-0.541	140.688	141.239	150.000
-0.524	140.722	141.246	155.947
-0.521	140.742	141.263	160.000
-0.485	140.792	141.277	170.000
-0.459	140.842	141.302	180.000
-0.445	140.864	141.309	184.475
-0.431	140.887	141.318	190.000
-0.437	140.902	141.339	199.474
-0.440	140.902	141.342	200.000
-0.497	140.883	141.381	210.000
-0.522	140.864	141.386	214.475
-0.525	140.862	141.386	215.000
-0.548	140.842	141.390	220.000
-0.567	140.832	141.399	227.000
-0.571	140.834	141.405	230.000
-0.552	140.867	141.419	240.000
-0.544	140.883	141.427	242.637
-0.534	140.899	141.433	245.000
-0.507	140.937	141.443	250.000
-0.476	141.012	141.488	260.000
-0.488	141.087	141.575	270.000
-0.464	141.162	141.626	280.000
-0.408	141.237	141.645	290.000
-0.383	141.258	141.651	292.784
-0.361	141.293	141.654	297.490
-0.341	141.312	141.653	300.000

LONGITUDINAL SECTION WALLOON STREET

CONTINUES NEXT PAGE

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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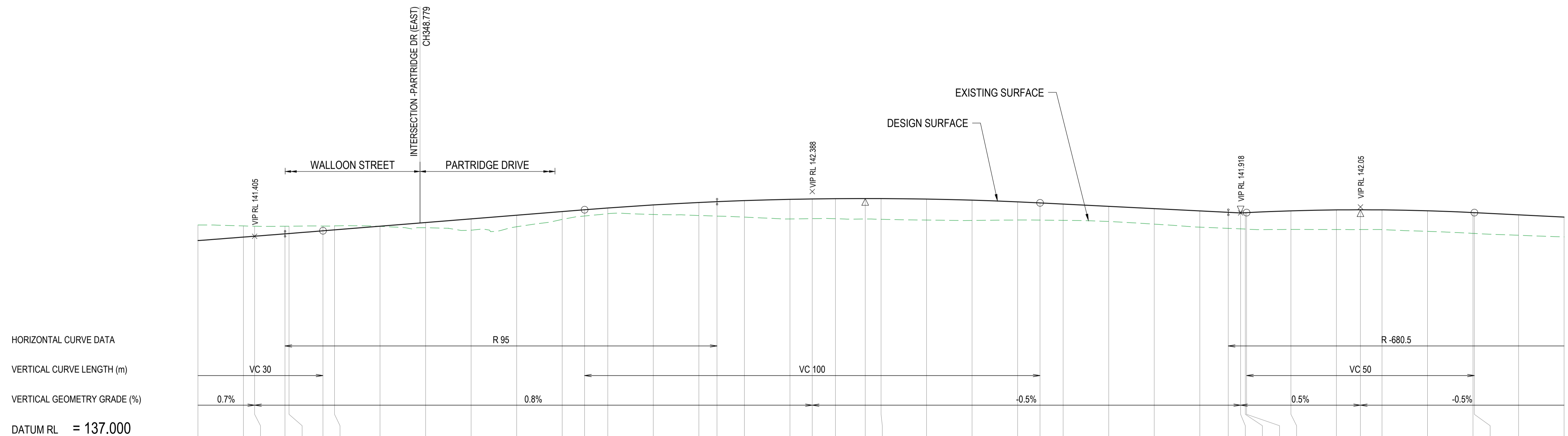
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS ROAD LONGITUDINAL SECTION SHEET 1 OF 5	
Scale AS SHOWN	Dwg. No. 2320-108
Sheet 19 OF 85	Issue 1

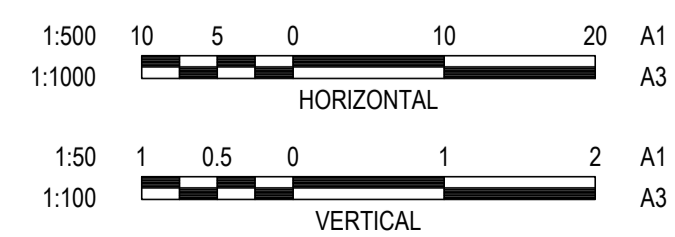


CHAINAGE	300.000	310.000	312.450	318.129	320.000	327.450	330.000	340.000	350.000	360.000	370.000	380.000	384.908	390.000	400.000	410.000	413.990	420.000	430.000	434.908	440.000	446.534	450.000	460.000	470.000	480.000	484.908	490.000	500.000	510.000	520.000	526.253	528.963	530.000	530.278	540.000	550.000	555.278	560.000	570.000	580.000	580.278	590.000	600.000
CUT / FILL DEPTH	-0.341	-0.246	-0.220	-0.166	-0.160	-0.105	-0.088	0.002	0.113	0.248	0.252	0.172	0.135	0.124	0.210	0.286	0.316	0.362	0.430	0.433	0.440	0.451	0.455	0.461	0.446	0.398	0.377	0.358	0.331	0.340	0.357	0.352	0.350	0.360	0.362	0.408	0.430	0.433	0.433	0.451	0.456	0.456	0.448	0.434
DESIGN SURFACE LEVEL	141.312	141.388	141.407	141.459	141.466	141.526	141.546	141.626	141.707	141.787	141.867	141.948	141.987	142.026	142.093	142.147	142.165	142.189	142.217	142.226	142.232	142.234	142.234	142.223	142.199	142.161	142.138	142.113	142.063	142.013	141.963	141.932	141.918	141.923	141.925	141.964	141.984	141.987	141.985	141.966	141.926	141.925	141.876	141.826
NATURAL SURFACE LEVEL	141.653	141.634	141.627	141.626	141.626	141.631	141.634	141.624	141.593	141.539	141.615	141.776	141.852	141.902	141.884	141.862	141.849	141.827	141.786	141.793	141.791	141.784	141.779	141.762	141.753	141.763	141.761	141.755	141.732	141.673	141.606	141.580	141.568	141.564	141.562	141.556	141.555	141.554	141.552	141.515	141.470	141.469	141.428	141.392

LONGITUDINAL SECTION WALLOON STREET / PARTRIDGE DRIVE (WEST)

CONTINUES NEXT PAGE

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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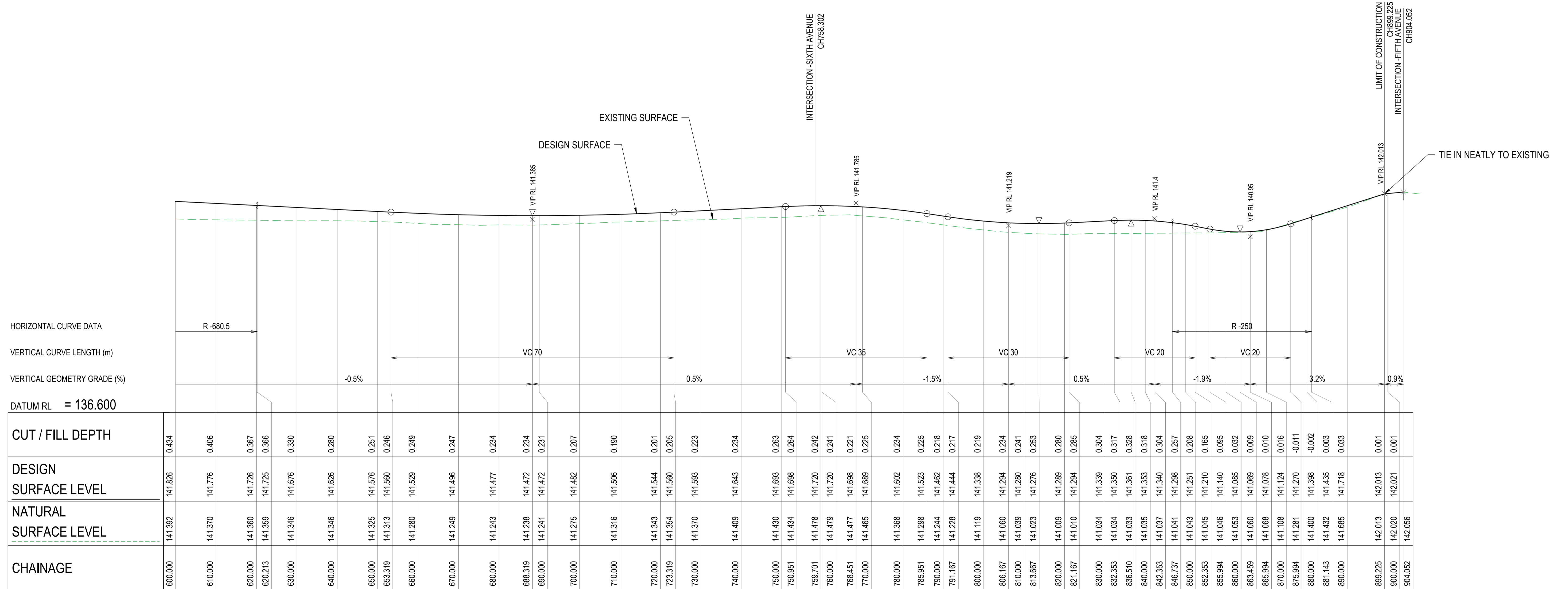
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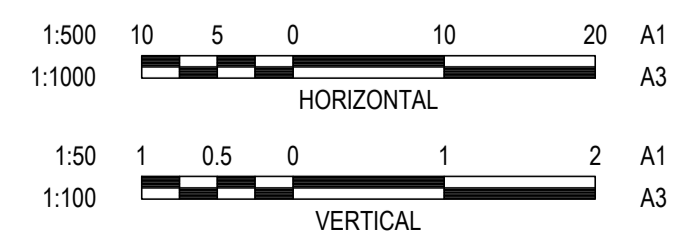
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS ROAD LONGITUDINAL SECTION SHEET 2 OF 5	
Scale AS SHOWN	Dwg. No. 2320-109
Sheet 20 OF 85	Issue 1

NO WORK IS SO
IMPORTANT THAT
IT CANNOT BE
DONE SAFELY



LONGITUDINAL SECTION PARTRIDGE DRIVE (WEST)

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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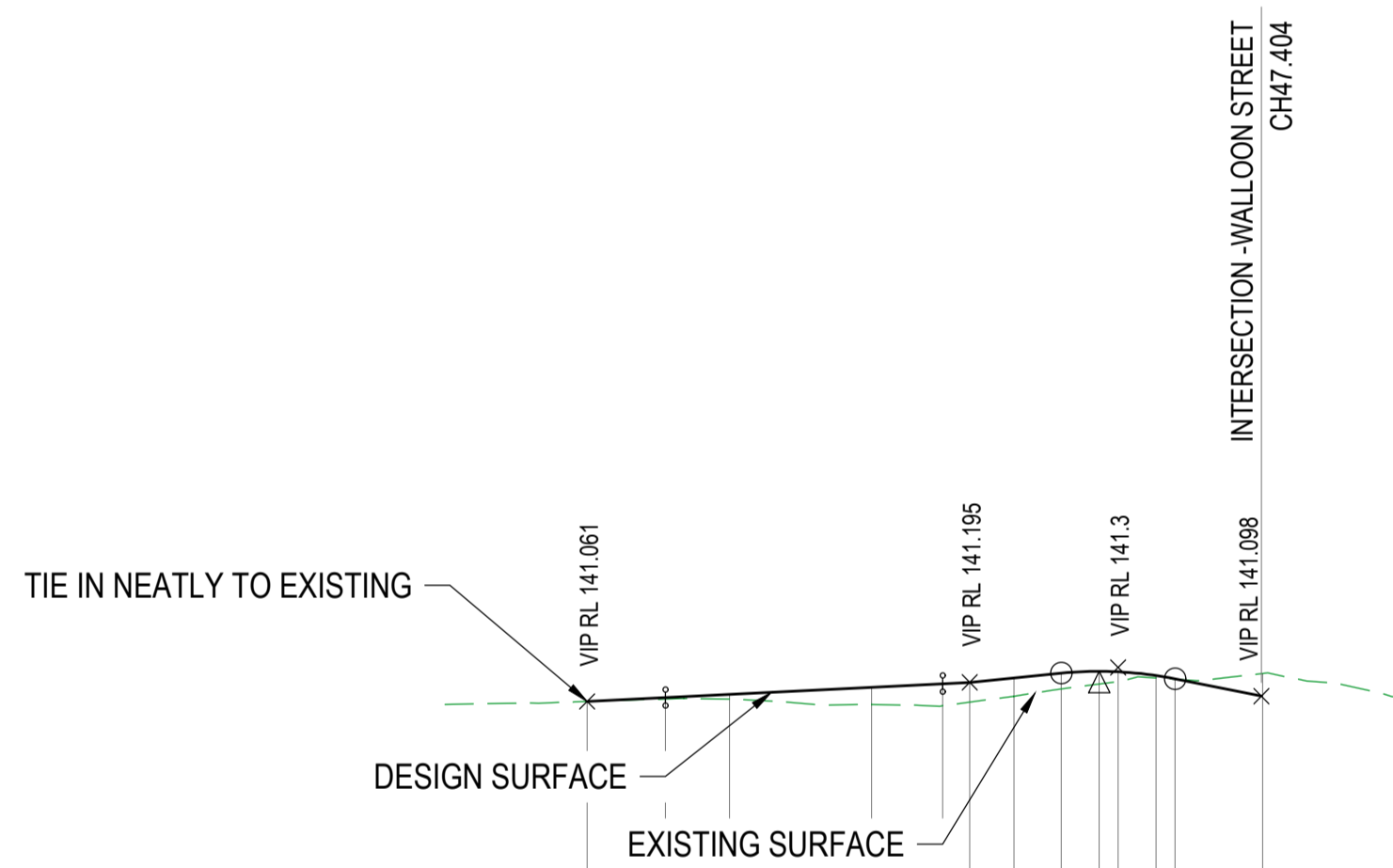
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD LONGITUDINAL SECTION SHEET 3 OF 5

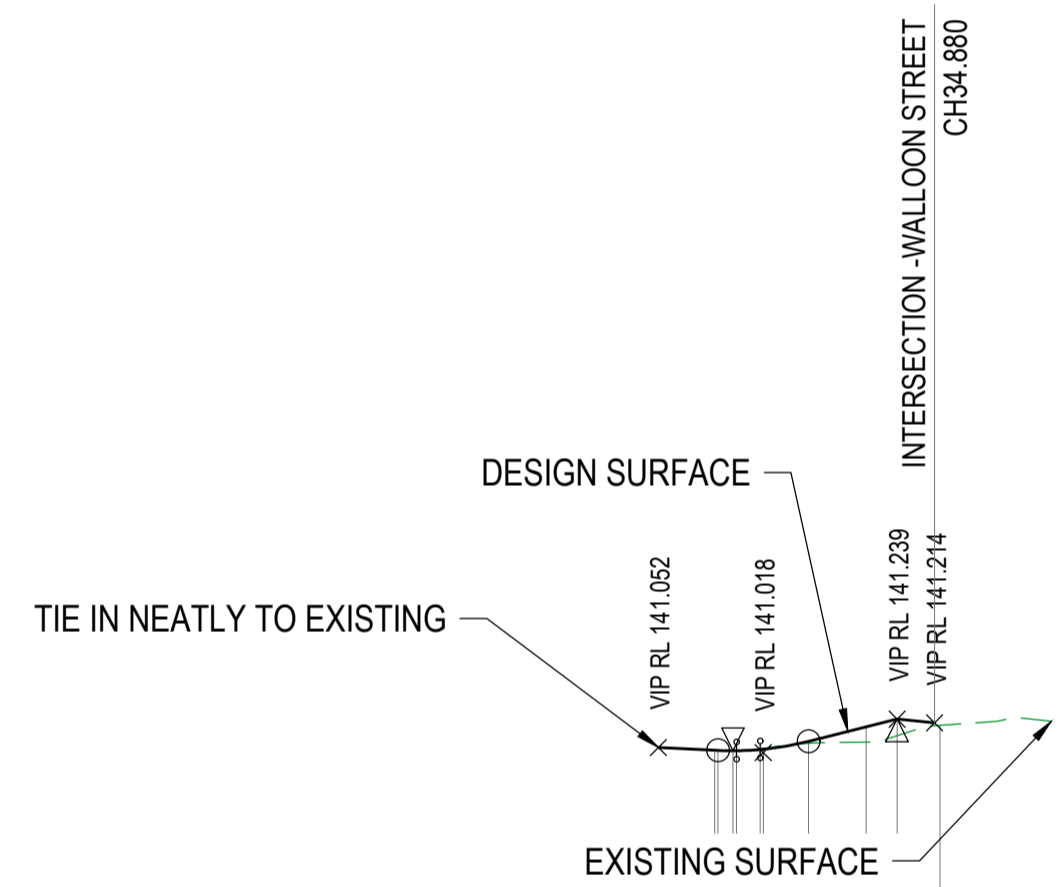
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-110	21 OF 85	1



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 136.700

CUT / FILL DEPTH	0.000	0.011	0.033	0.121	0.155	0.139	0.129	0.111	0.090	0.069	0.017	0.003
DESIGN SURFACE LEVEL	141.061	141.088	141.111	141.161	141.186	141.195	141.226	141.260	141.273	141.270	141.243	141.220
NATURAL SURFACE LEVEL	141.061	141.077	141.078	141.040	141.031	141.056	141.097	141.149	141.183	141.200	141.226	141.217
CHAINAGE	0.000	5.492	10.000	20.000	24.986	26.897	30.000	33.331	35.997	37.331	40.000	41.331
												47.491

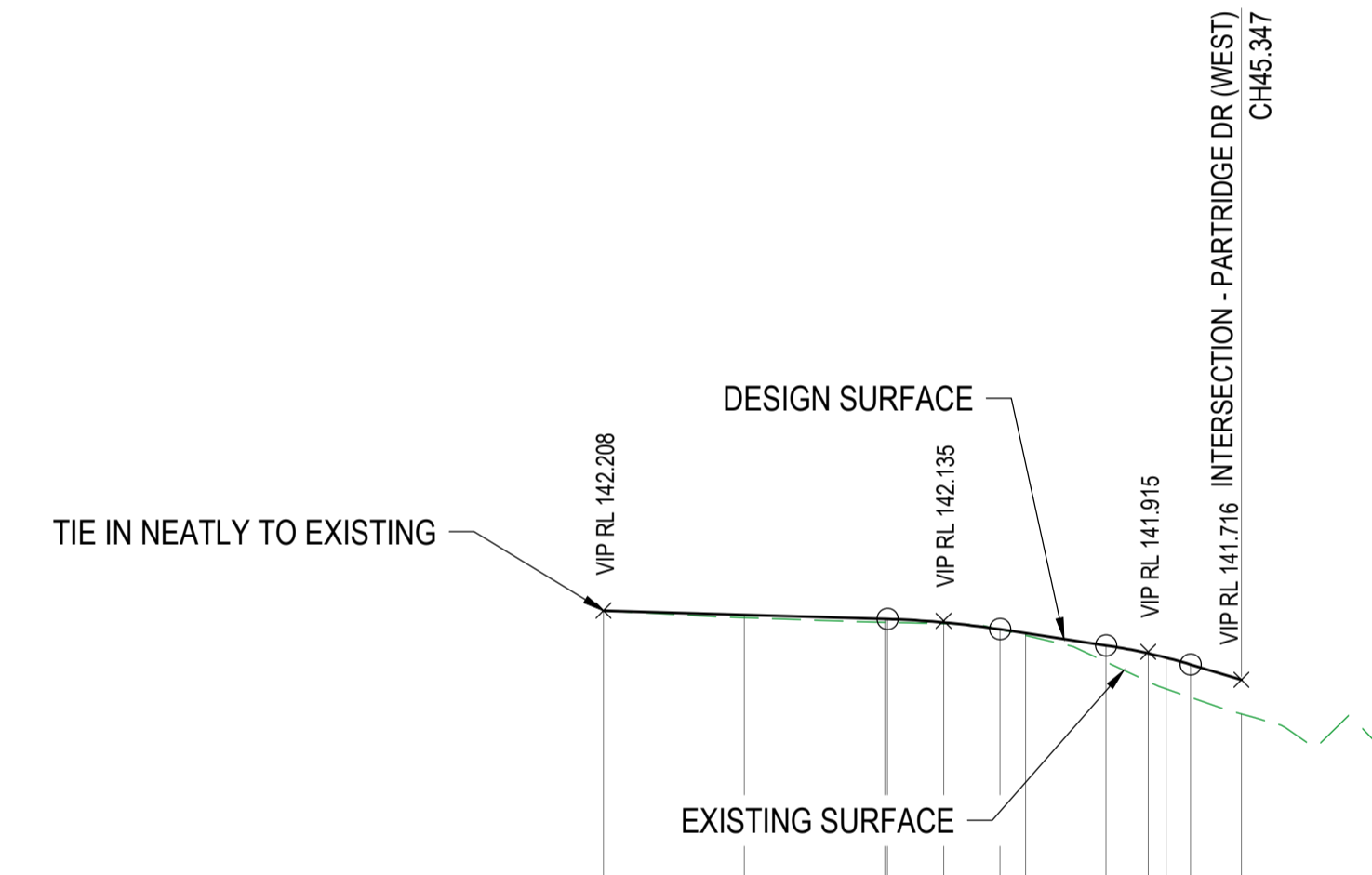
LONGITUDINAL SECTION ELEVENTH AVENUE



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 136.700

CUT / FILL DEPTH	-0.000	-0.001	0.001	0.002	-0.003	-0.004	0.014	0.100	0.109				
DESIGN SURFACE LEVEL	141.034	141.033	141.030	141.030	141.038	141.040	141.093	141.188	141.239				
NATURAL SURFACE LEVEL	141.034	141.033	141.029	141.029	141.041	141.044	141.079	141.188	141.198				
CHAINAGE	0.000	10.000	20.000	20.197	21.197	21.197	21.434	22.990	23.197				
										26.197	30.000	32.049	34.880

LONGITUDINAL SECTION EASTERN LANE

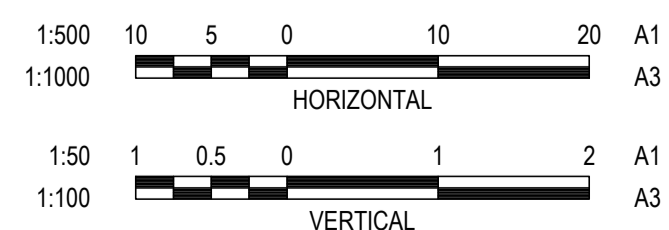


HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 136.900

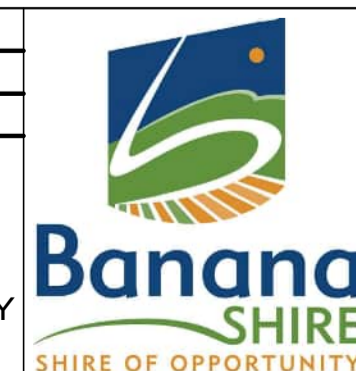
CUT / FILL DEPTH	0.000	0.021	0.023	0.023	0.009	0.000	0.016	0.117	0.200	0.222	0.233
DESIGN SURFACE LEVEL	142.208	142.178	142.148	142.147	142.123	142.075	142.047	141.960	141.904	141.873	141.825
NATURAL SURFACE LEVEL	142.208	142.157	142.125	142.124	142.115	142.074	142.031	141.844	141.704	141.651	141.473
CHAINAGE	0.000	10.000	20.000	20.172	24.172	28.172	30.000	35.724	38.724	40.000	41.724
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LONGITUDINAL SECTION SIXTH AVENUE

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

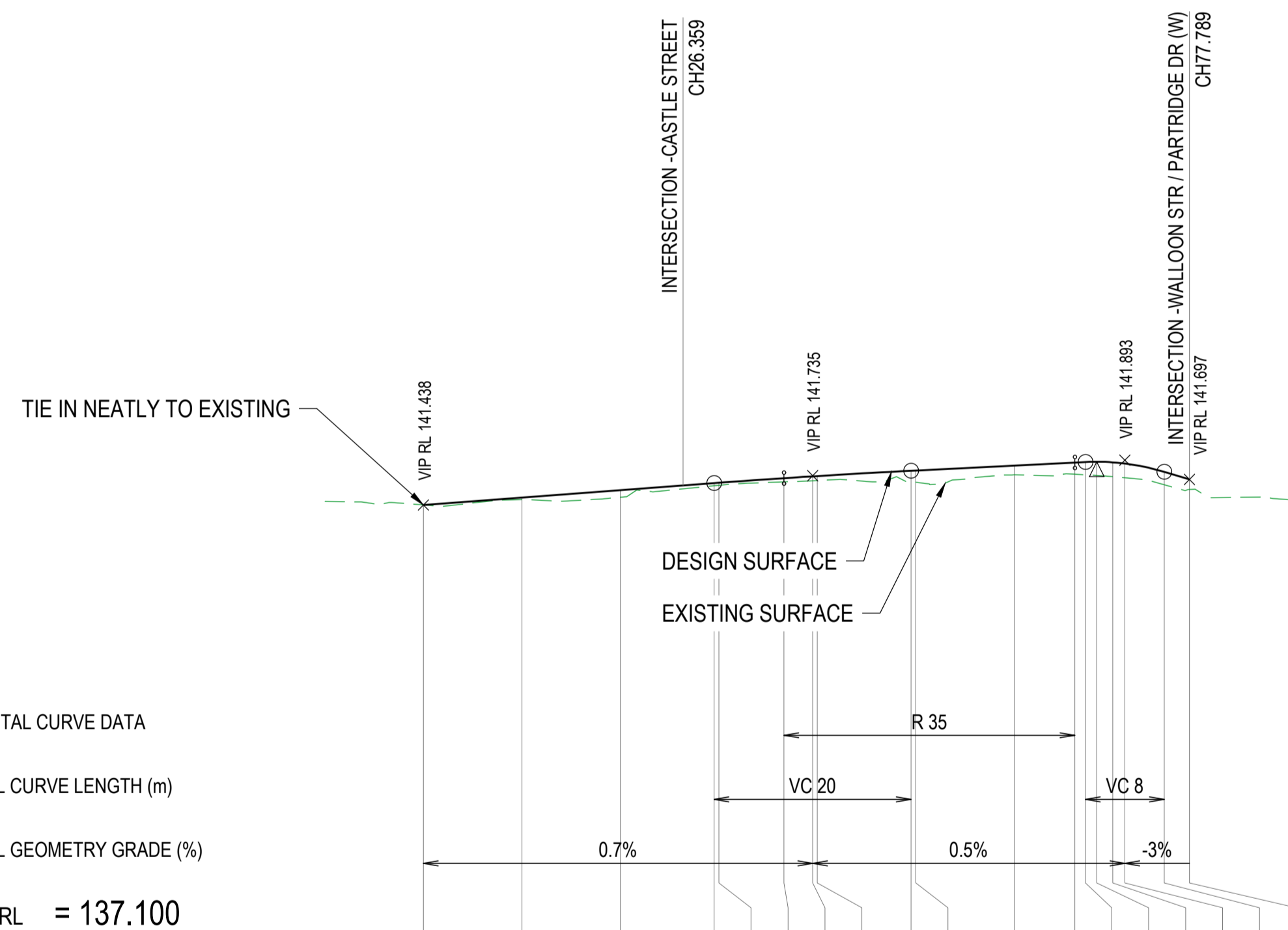


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 Director: TONY SHELLEY (RPEQ 7736)



WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 ROAD LONGITUDINAL SECTION SHEET 4 OF 5

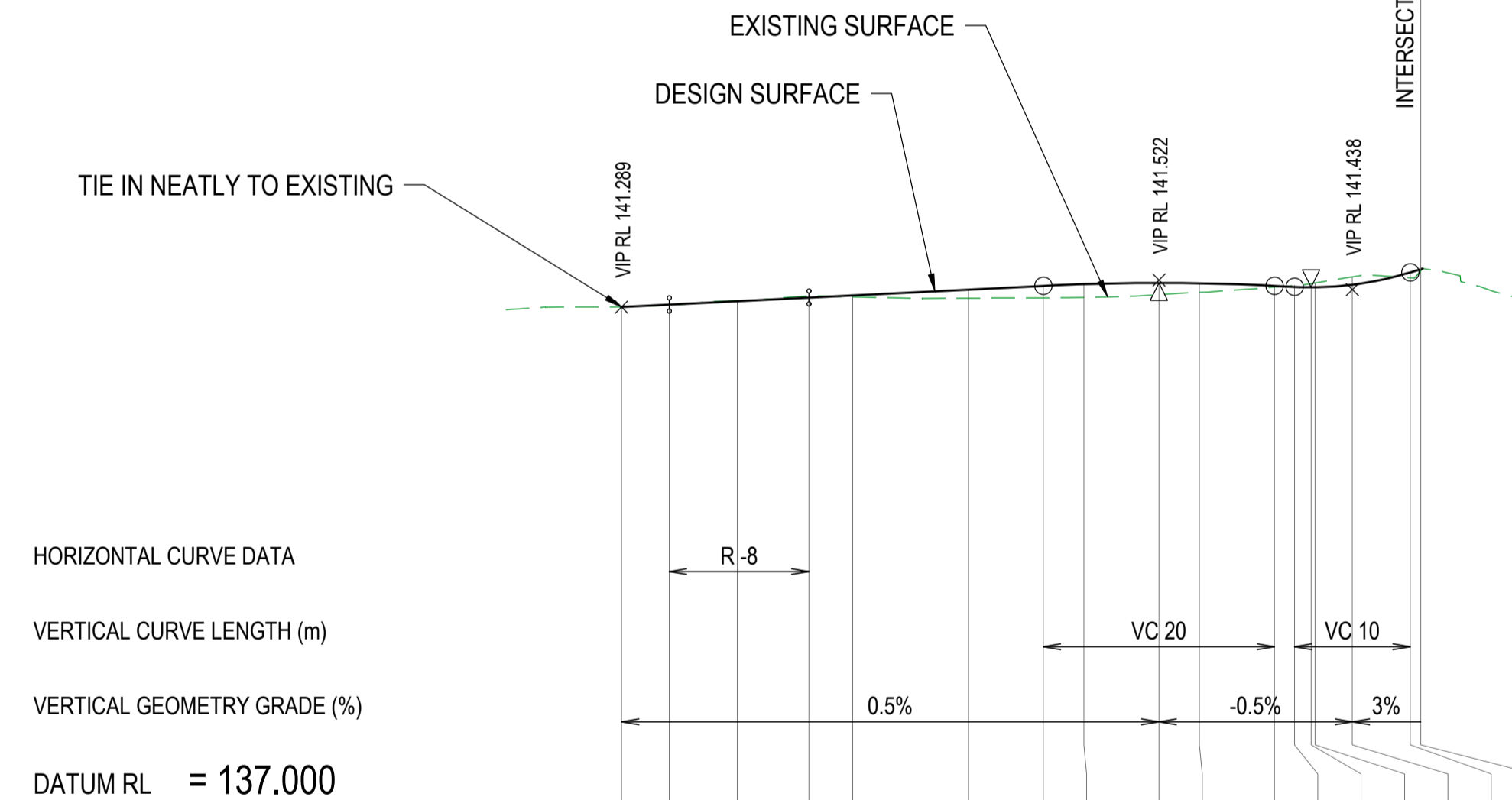
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-111	22 OF 85	1



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 137.100

CUT / FILL DEPTH	0.000	10.000	20.000	29.525	30.000	36.603	39.525	40.000	49.525	50.000	60.000	66.159	67.239	68.382	70.000	71.239	75.239	77.789
DESIGN SURFACE LEVEL	141.438	141.513	141.588	141.660	141.663	141.710	141.729	141.732	141.785	141.787	141.837	141.868	141.873	141.876	141.871	141.858	141.773	141.697
NATURAL SURFACE LEVEL	141.438	141.493	141.517	141.633	141.638	141.672	141.684	141.686	141.673	141.668	141.744	141.750	141.744	141.737	141.726	141.714	141.642	141.594
CHAINAGE	0.000	10.000	20.000	29.525	30.000	36.603	39.525	40.000	49.525	50.000	60.000	66.159	67.239	68.382	70.000	71.239	75.239	77.789

LONGITUDINAL SECTION PARTRIDGE DRIVE (EAST)

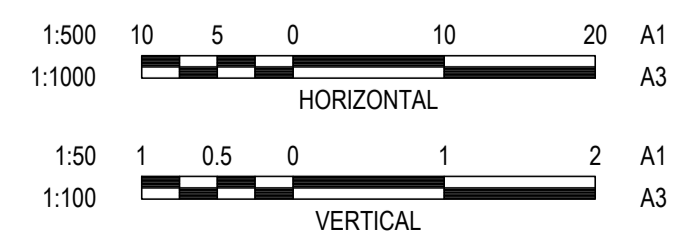


HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 137.000

CUT / FILL DEPTH	0.000	4.123	10.000	16.217	20.000	30.000	36.490	40.000	46.490	50.000	56.490	58.228	59.657	60.000	63.228	68.228	69.141
DESIGN SURFACE LEVEL	141.289	141.310	141.339	141.370	141.389	141.439	141.472	141.486	141.497	141.494	141.472	141.463	141.460	141.460	141.482	141.541	141.616
NATURAL SURFACE LEVEL	141.289	141.305	141.345	141.383	141.375	141.365	141.368	141.372	141.396	141.416	141.462	141.474	141.492	141.497	141.550	141.541	141.601
CHAINAGE	0.000	4.123	10.000	16.217	20.000	30.000	36.490	40.000	46.490	50.000	56.490	58.228	59.657	60.000	63.228	68.228	69.141

LONGITUDINAL SECTION CASTLE STREET

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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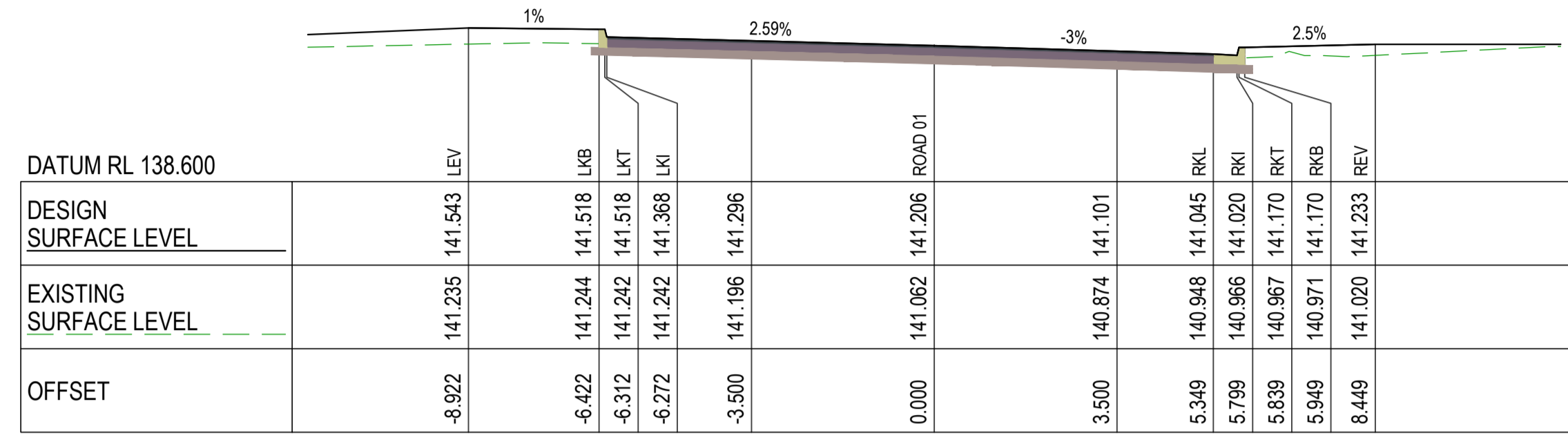


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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 ROAD LONGITUDINAL SECTION SHEET 5 OF 5

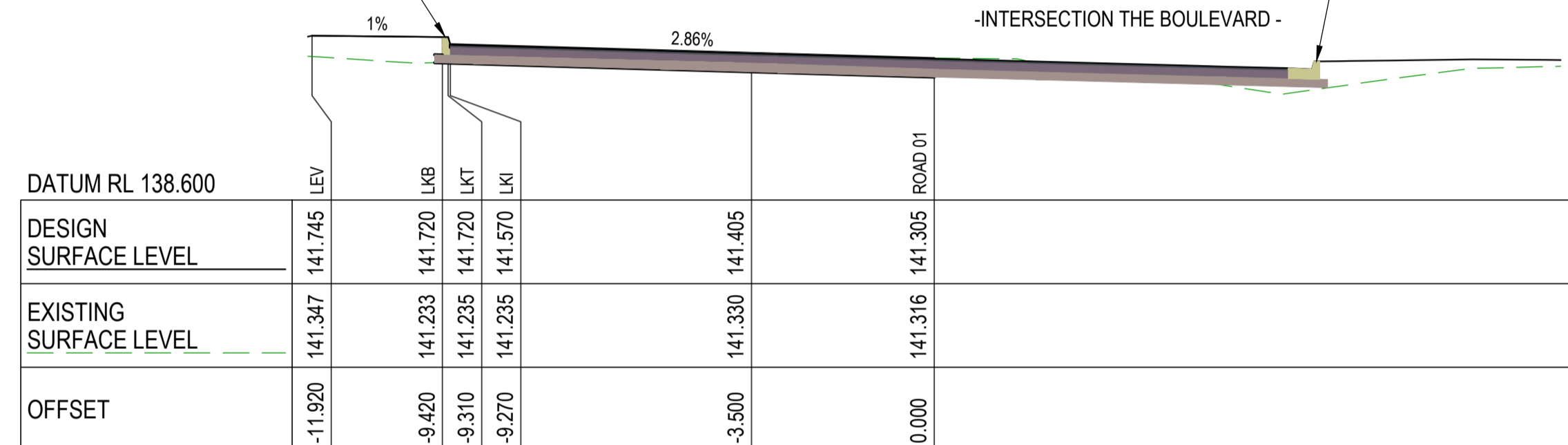
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AS SHOWN	2320-112	23 OF 85	1



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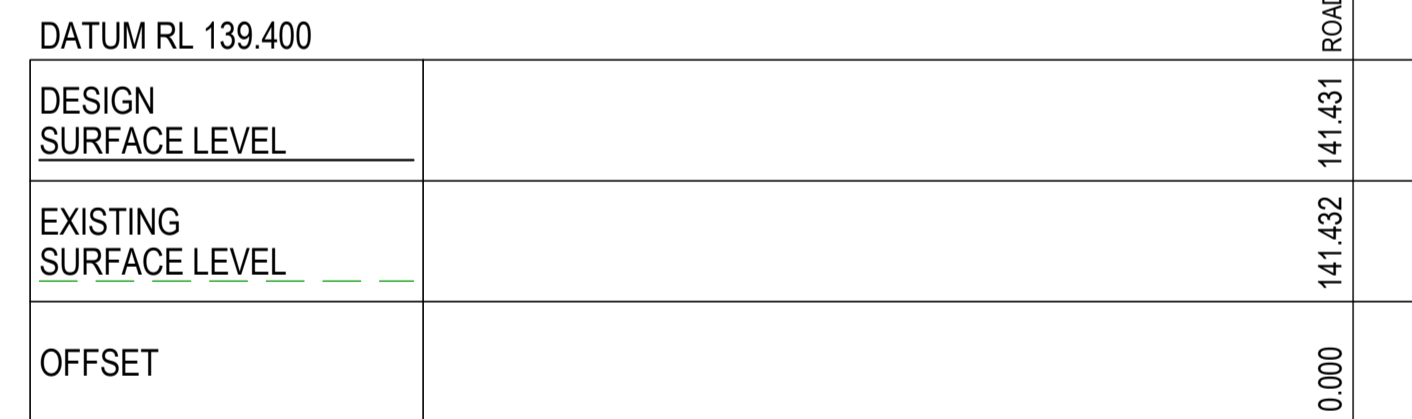
PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060

PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060



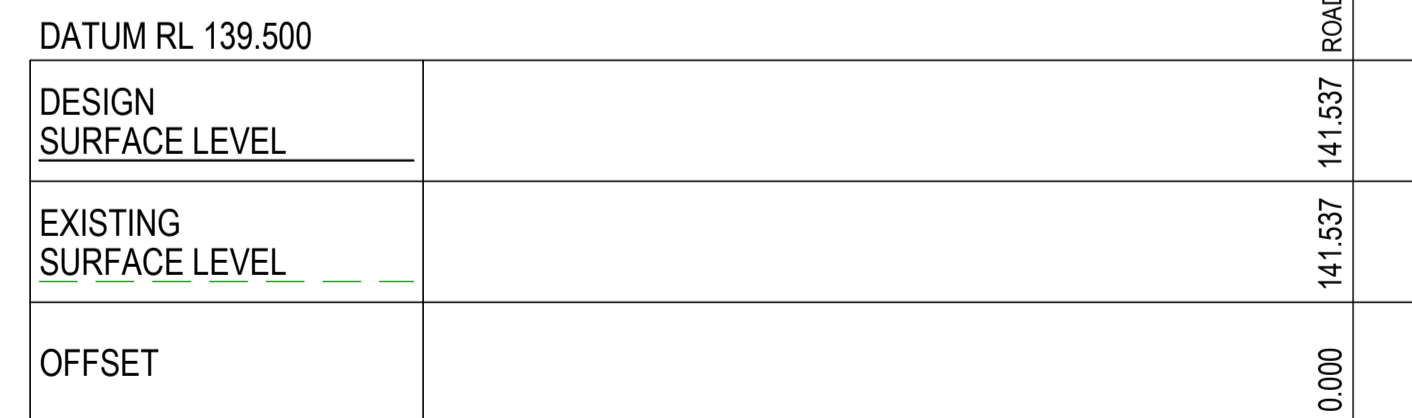
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-INTERSECTION THE BOULEVARD -



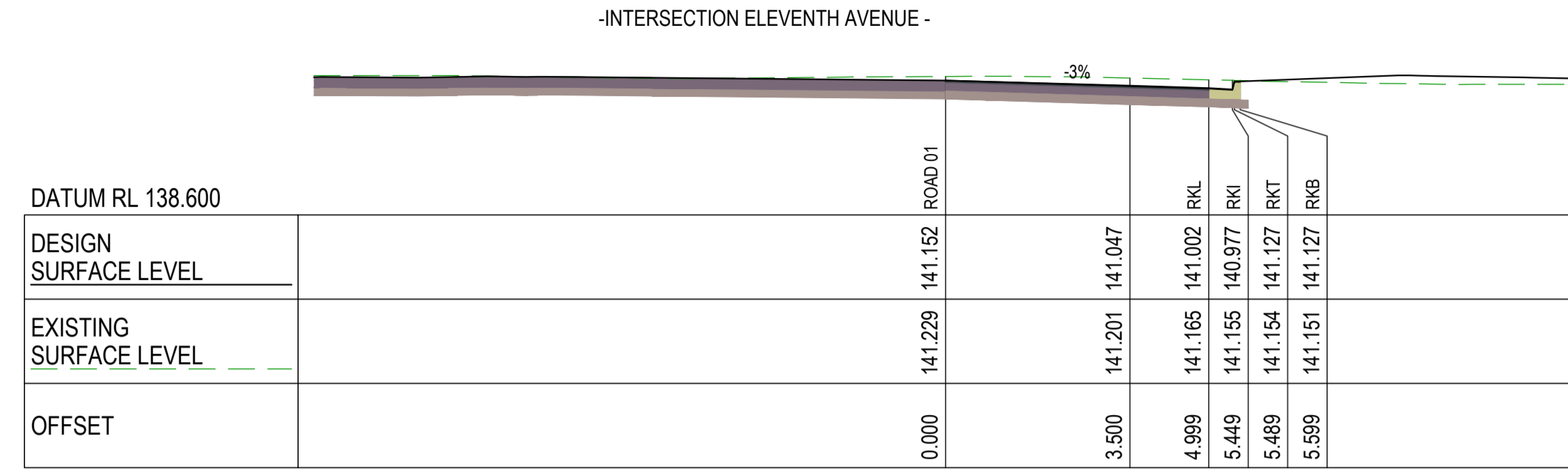
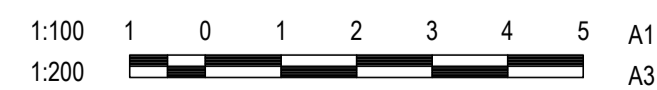
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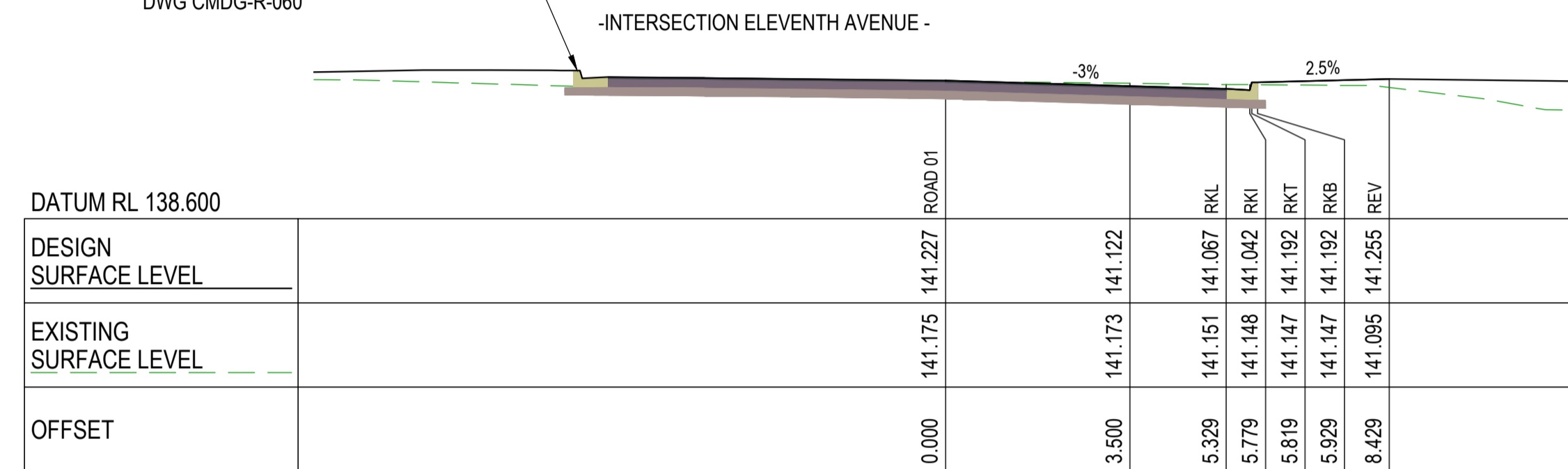
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CROSS SECTIONS WALLOON STREET

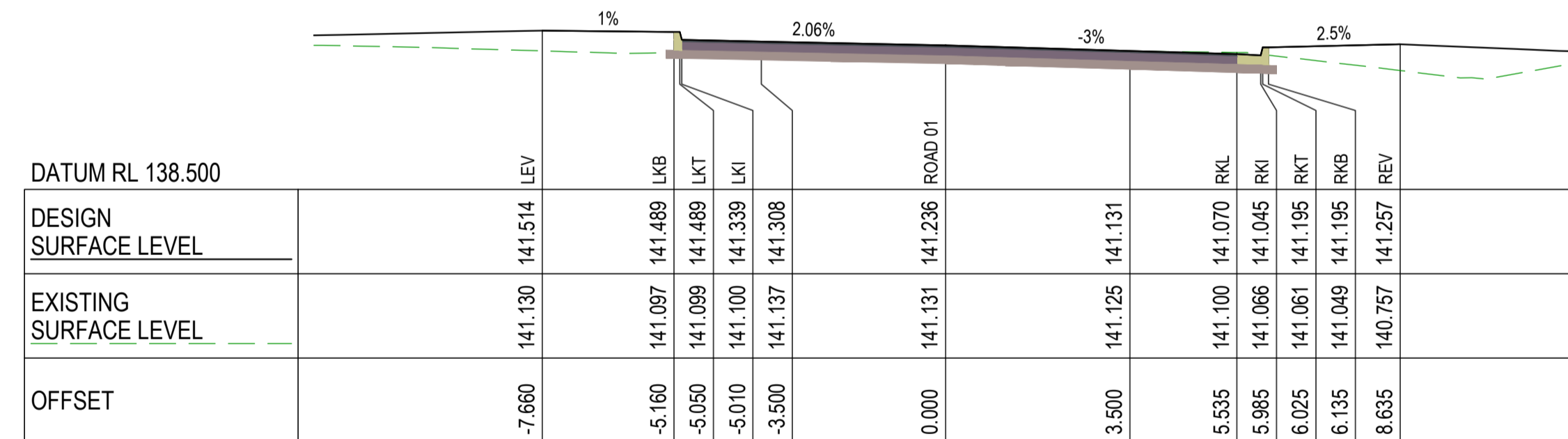


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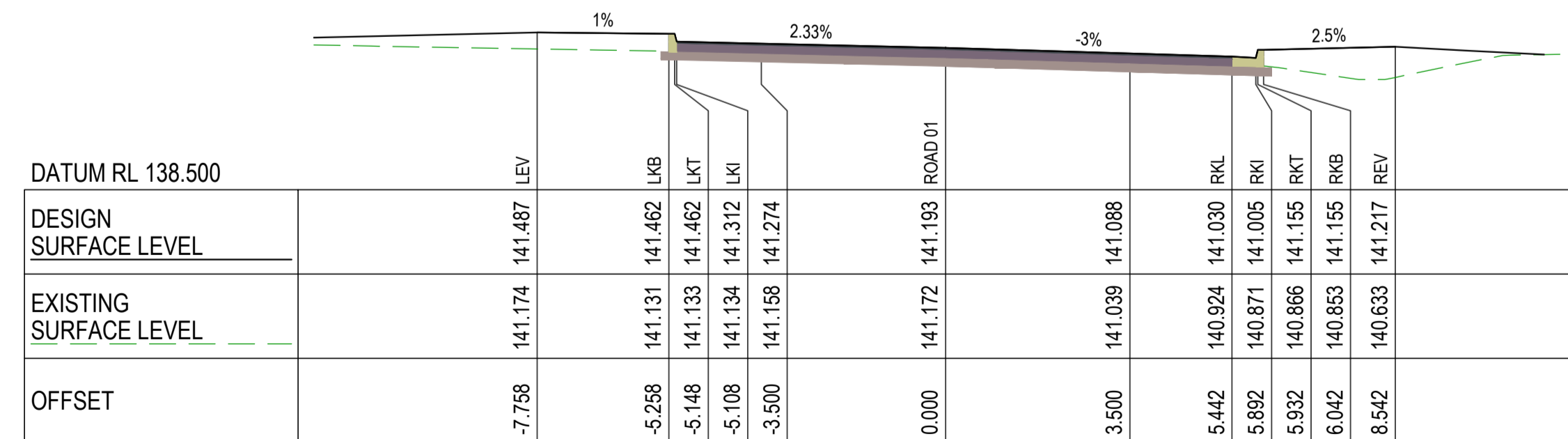
PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060



60.000



50.000



40.000

CROSS SECTIONS WALLOON STREET

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Director: TONY SHELLEY
(RPEQ 7736)

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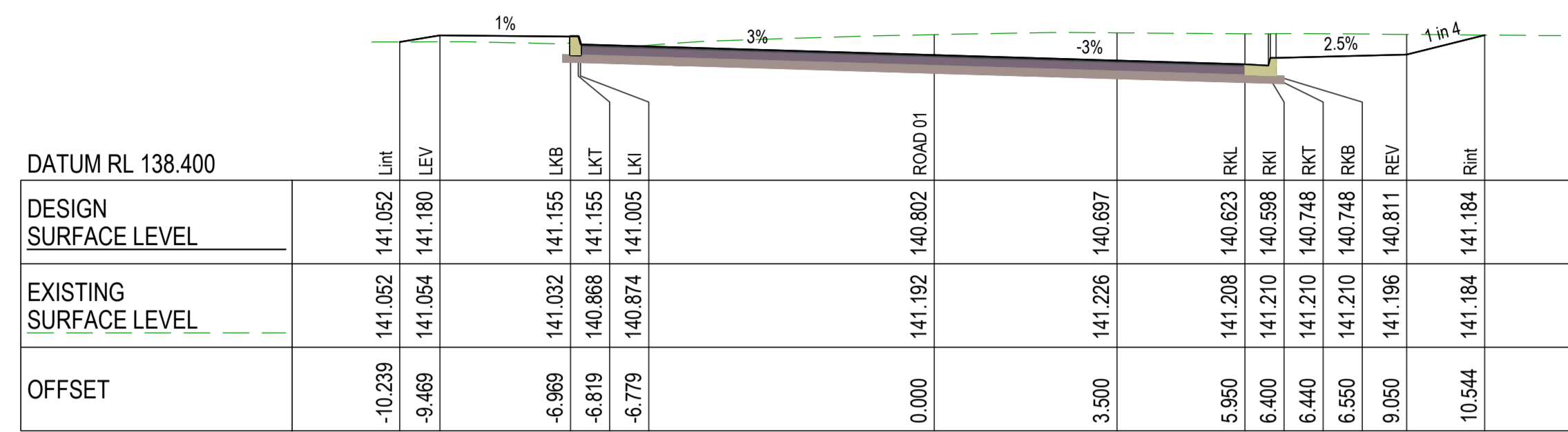
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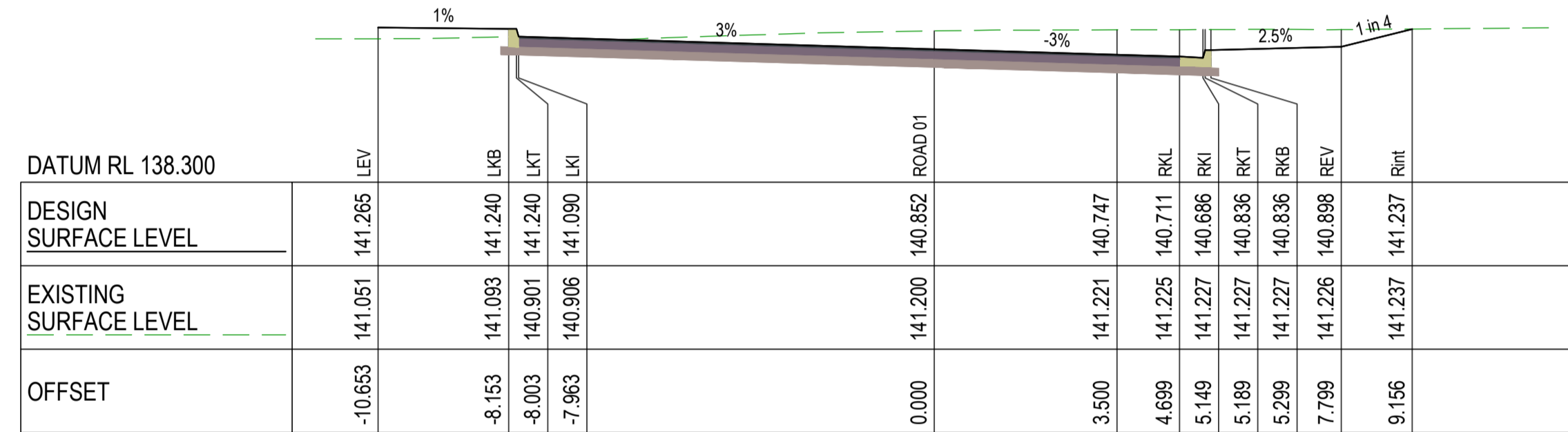
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 1 OF 17

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-113	24 OF 85	1

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



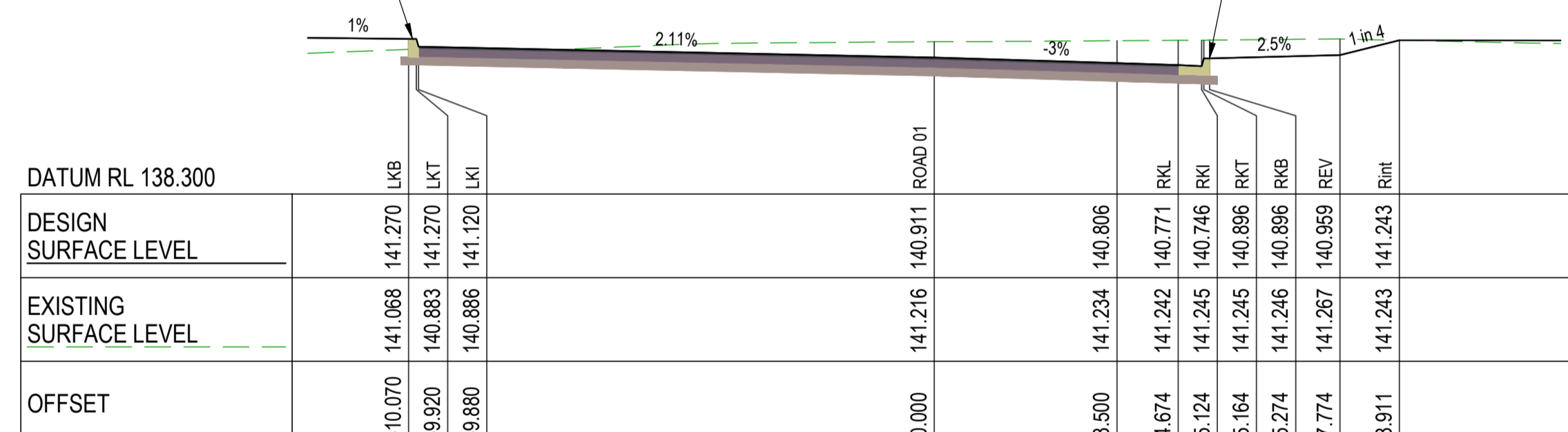
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100.000

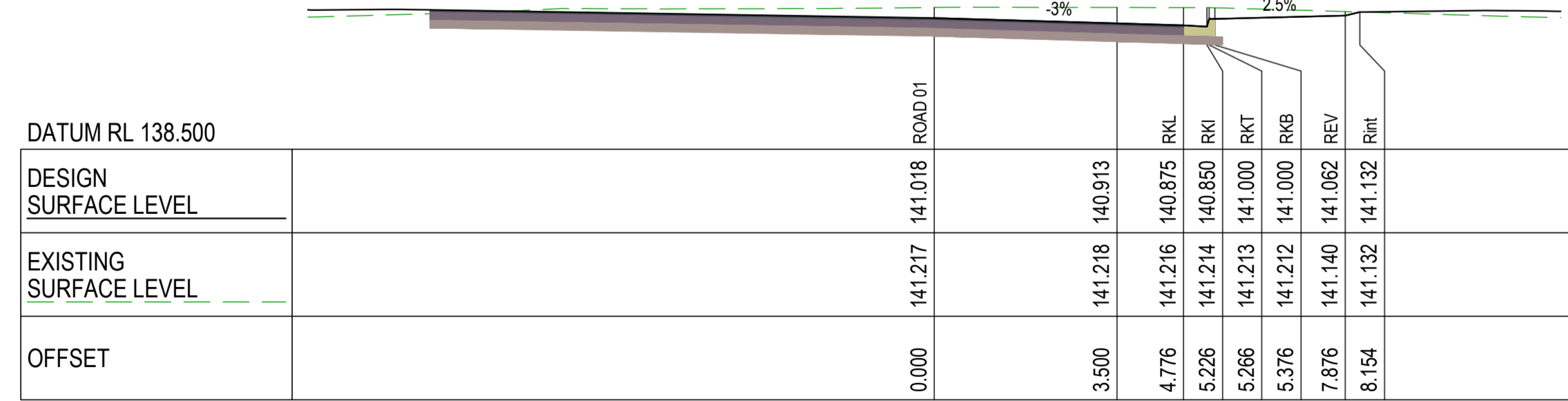
PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060

PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060



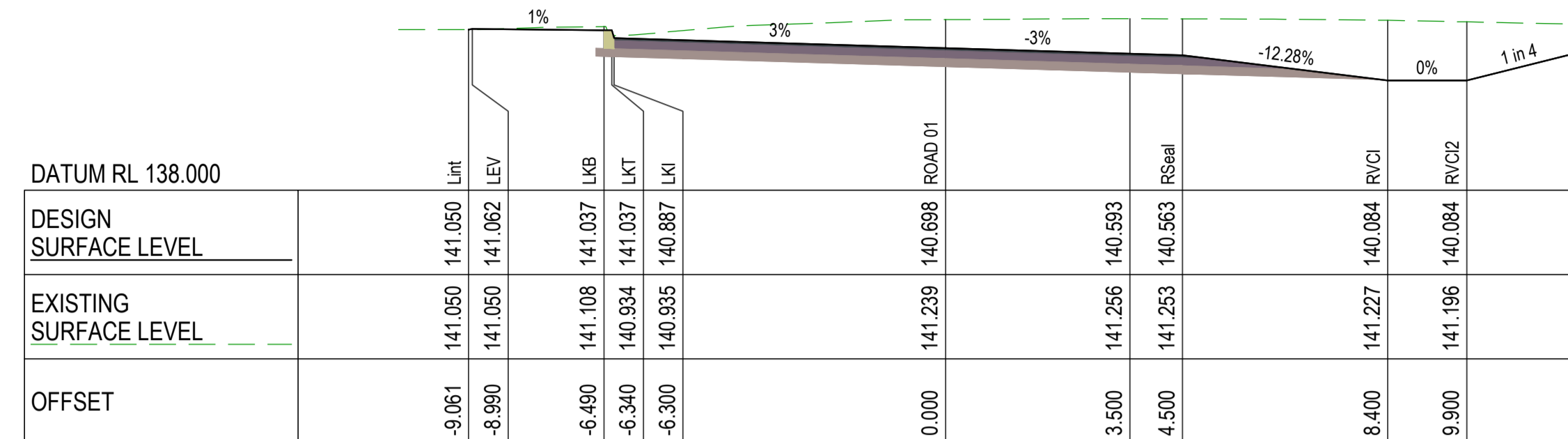
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-INTERSECTION ELEVENTH AVENUE -

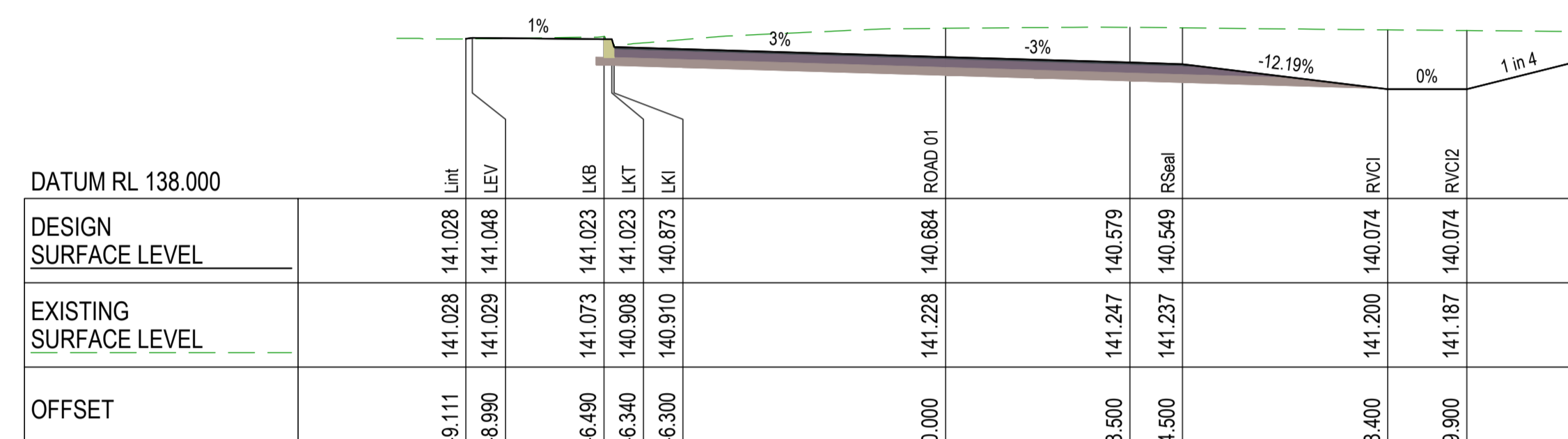


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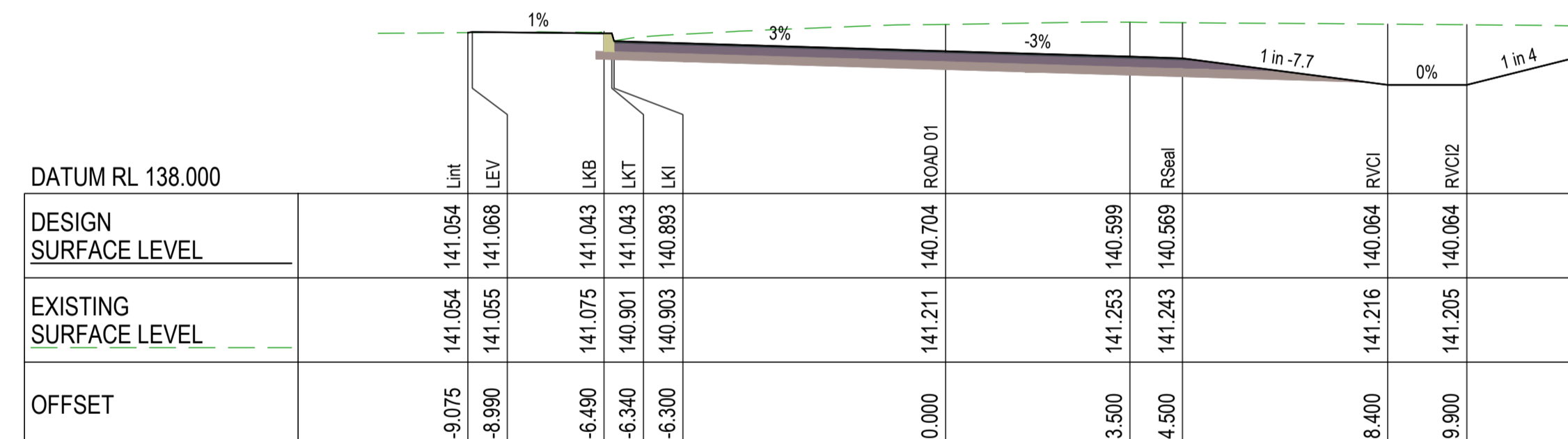
CROSS SECTIONS WALLOON STREET



150.000

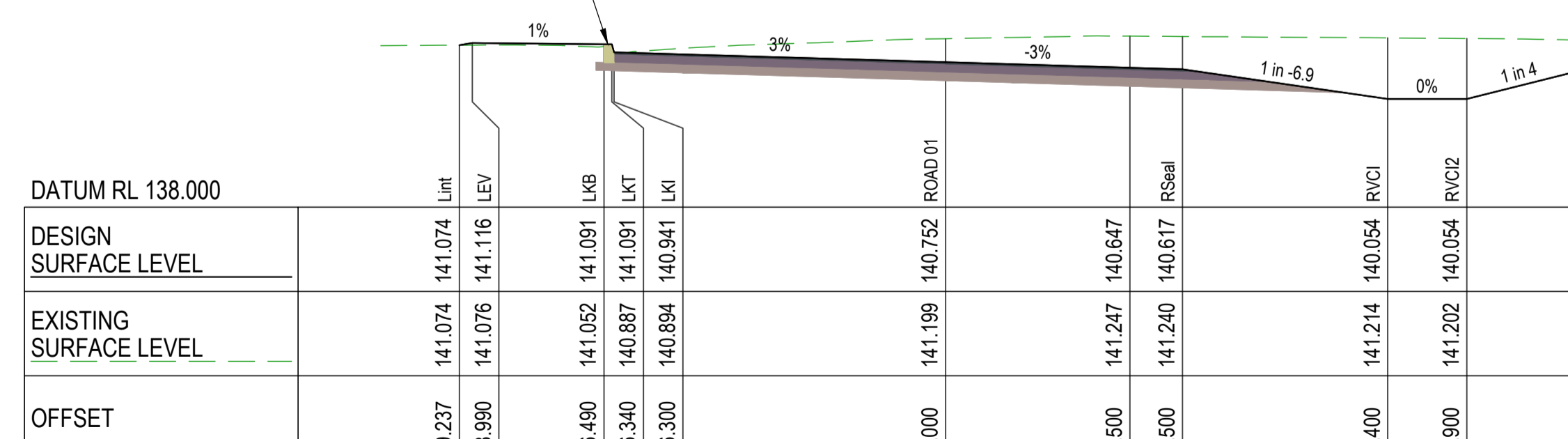


140.000



130.000

PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060



120.000

CROSS SECTIONS WALLOON STREET

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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DRAWN	CS
DESIGN CHECK	SS

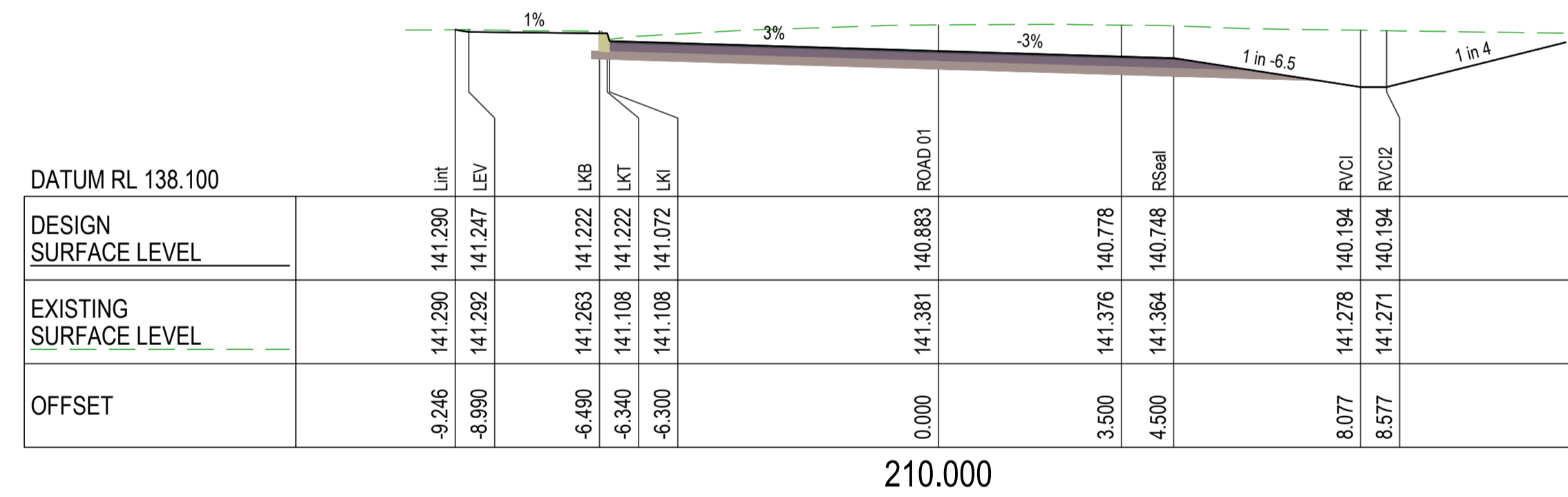
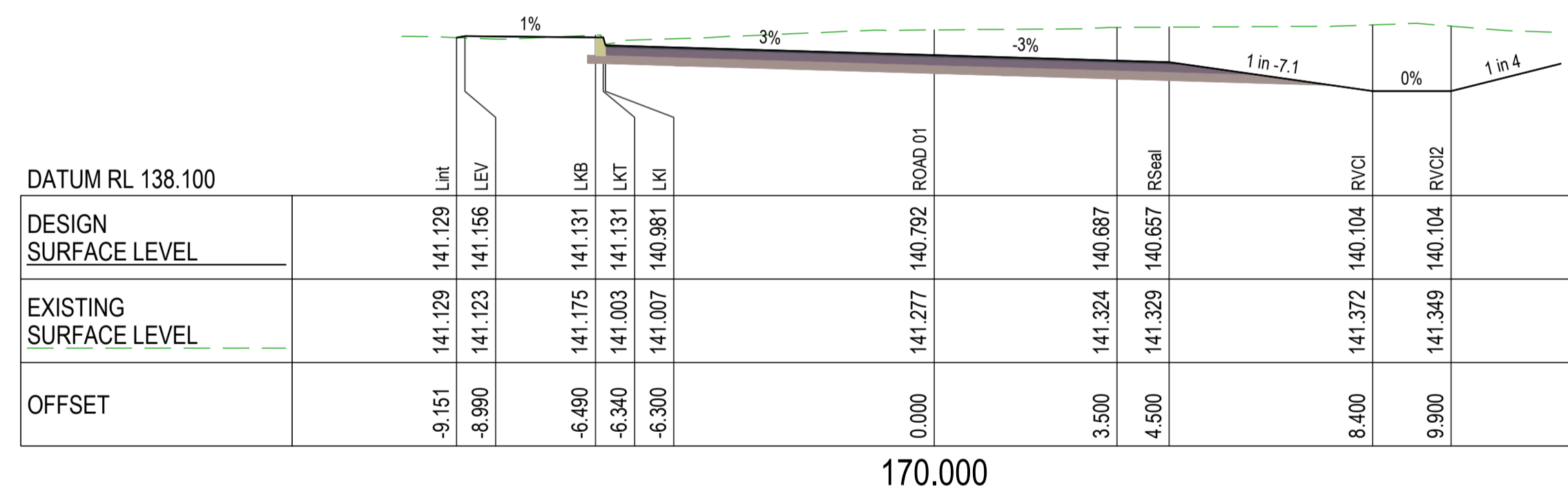
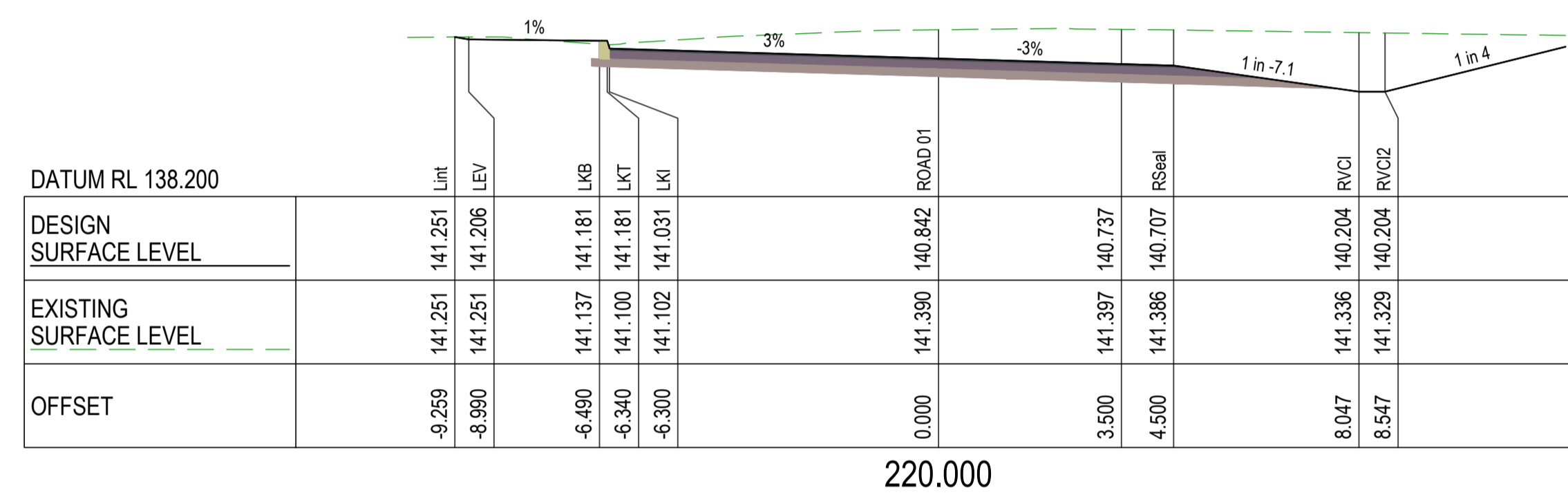
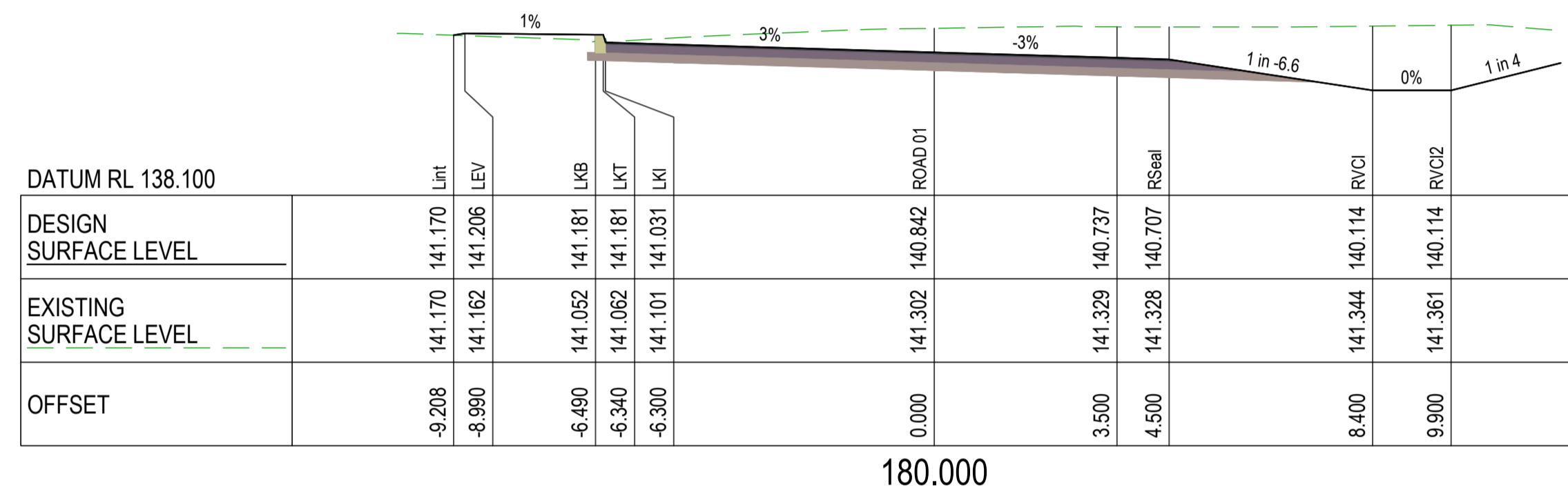
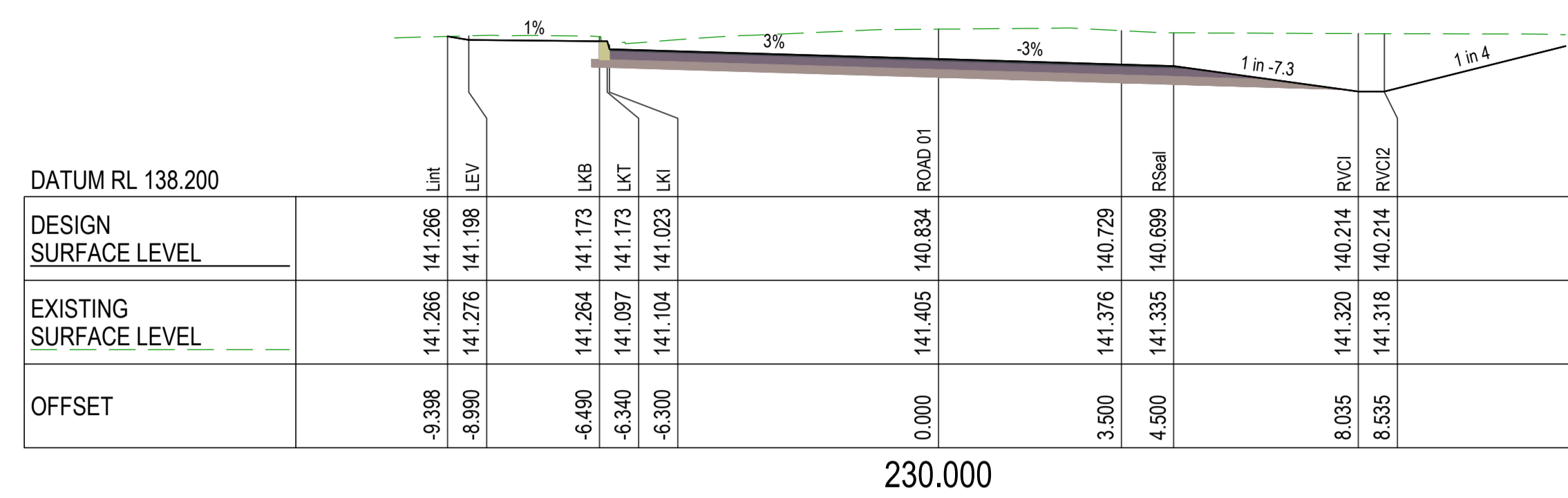
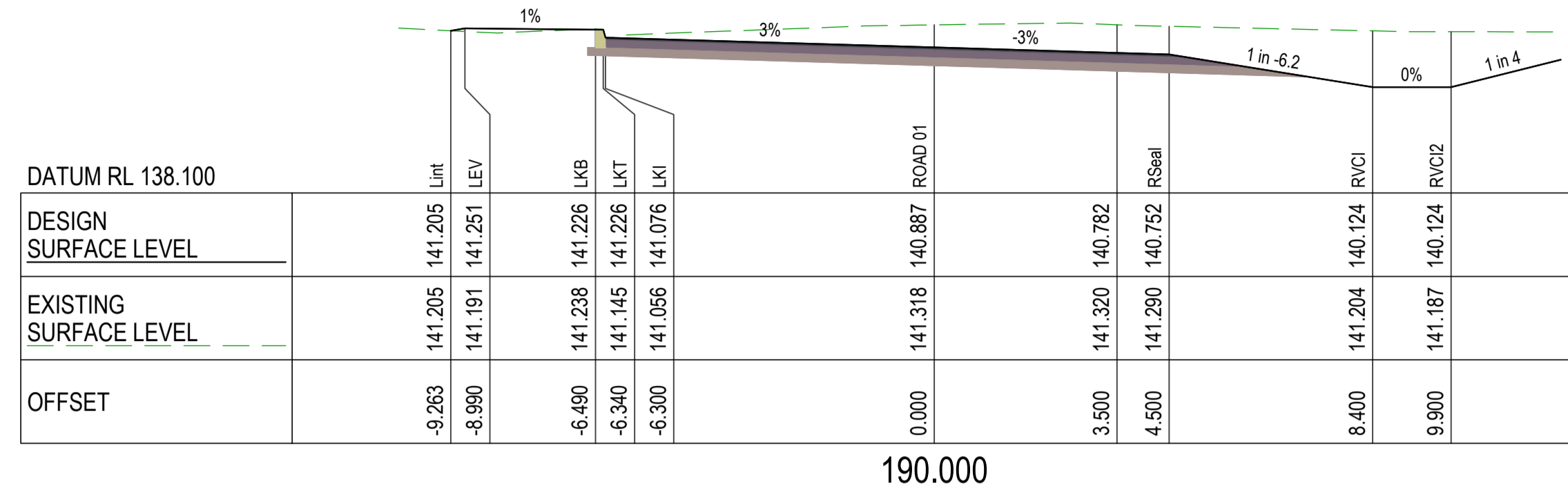
Tony Shelley
Director: TONY SHELLEY (RPEQ 7736)

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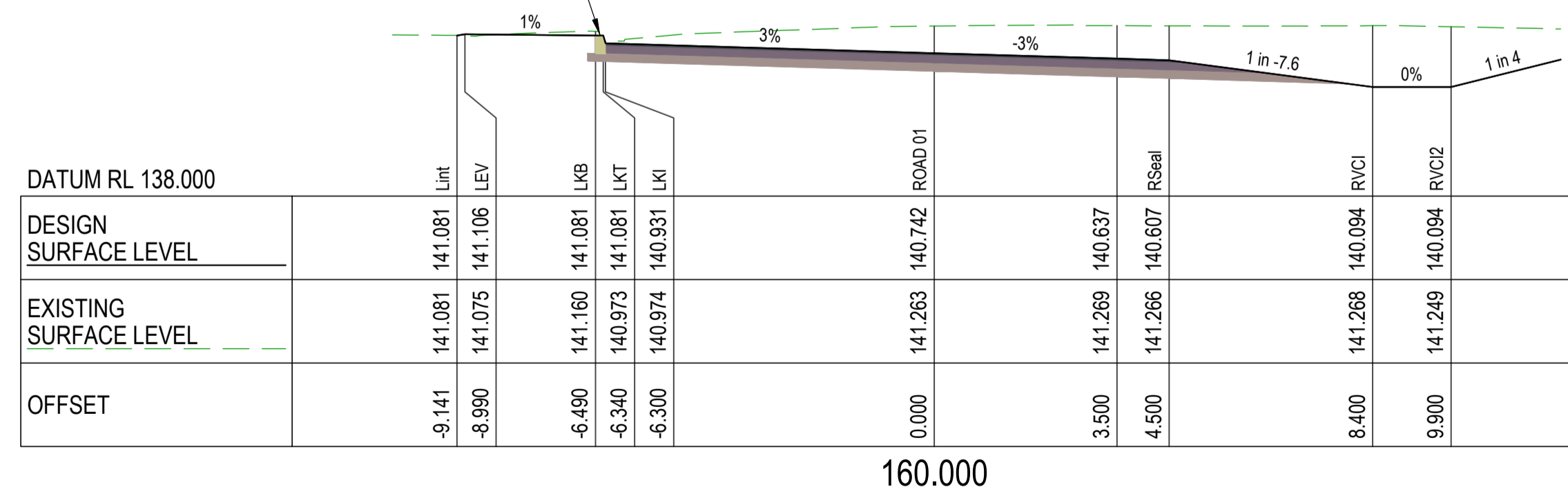
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 2 OF 17

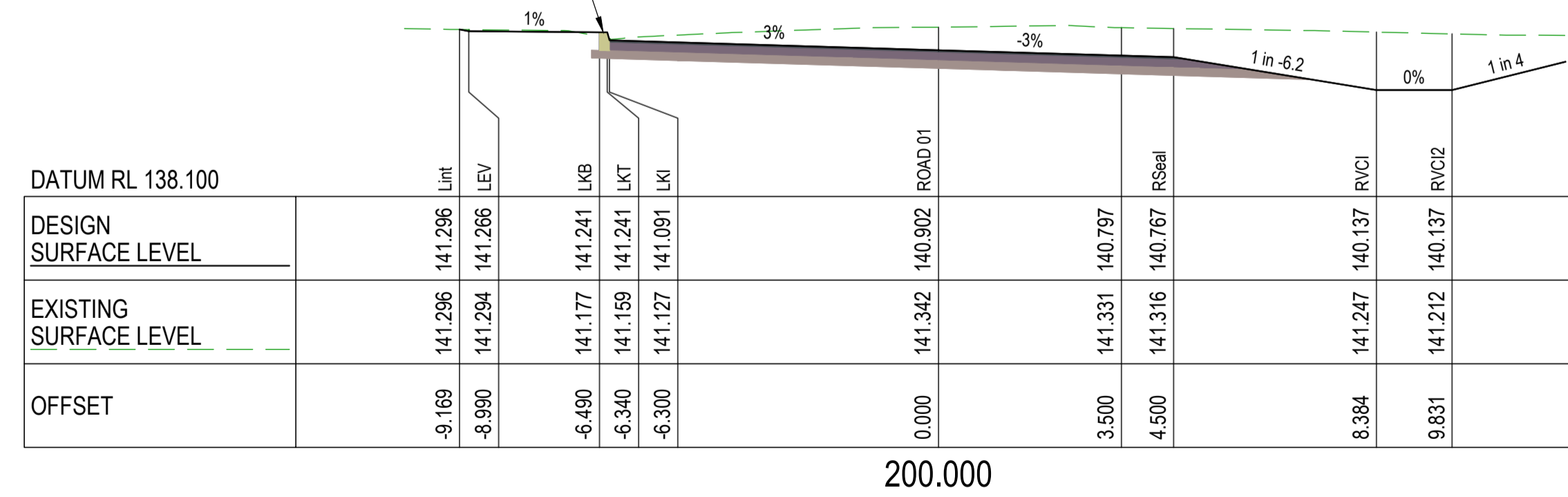
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-114	25 OF 85	1



PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060

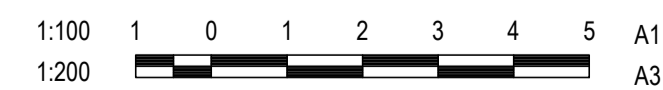


PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060



CROSS SECTIONS WALLOON STREET

CROSS SECTIONS WALLOON STREET



DESIGN CS
DRAWN CS
DESIGN CHECK SS

Tony Shelley
Director: TONY SHELLEY
(RPEQ 7736)

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SHIRE OF OPPORTUNITY

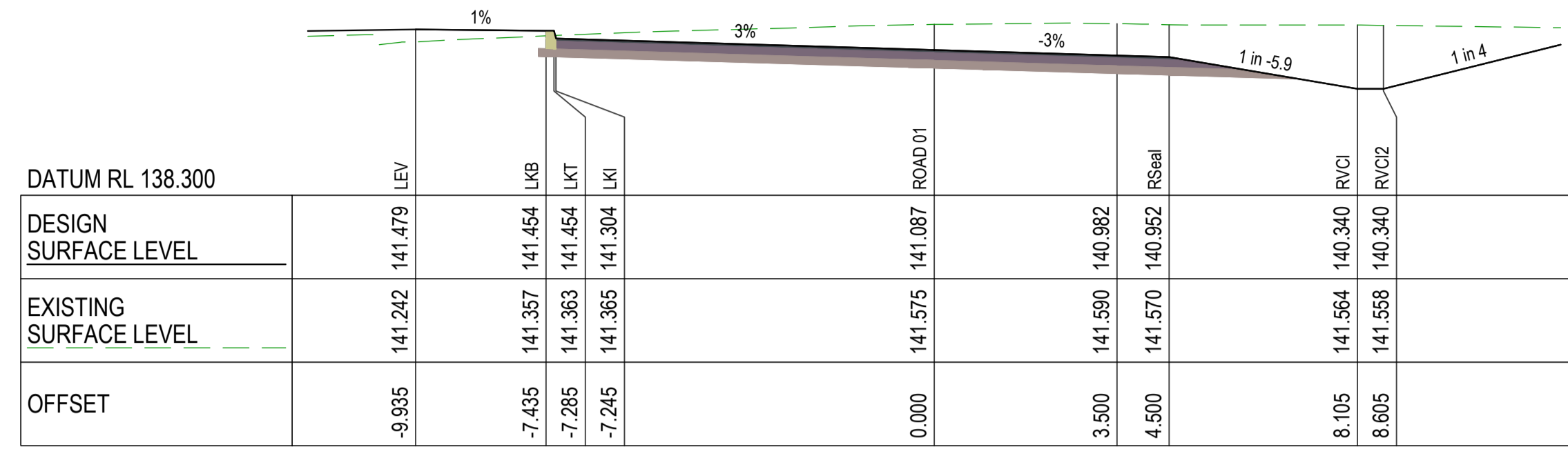
Barlow Shelley
CONSULTING ENGINEERS

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E office@barlowshelley.com.au W www.barlowshelley.com.au
PO Box 899 Maroochydore 4558 ABN 89 215 591 077

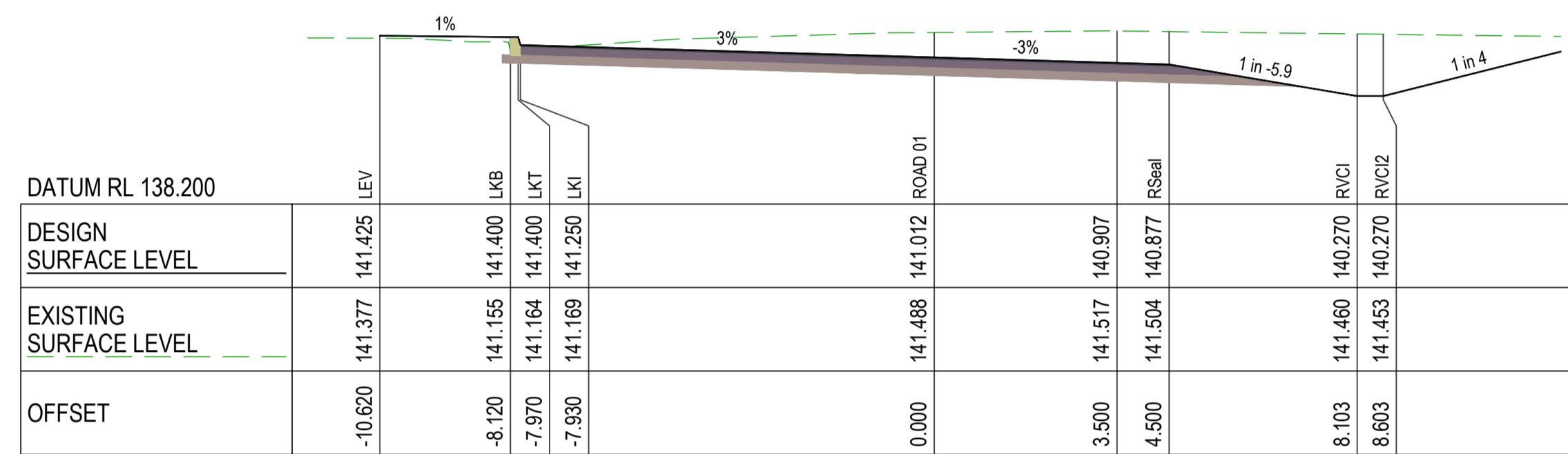
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 3 OF 17

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-115	26 OF 85	1

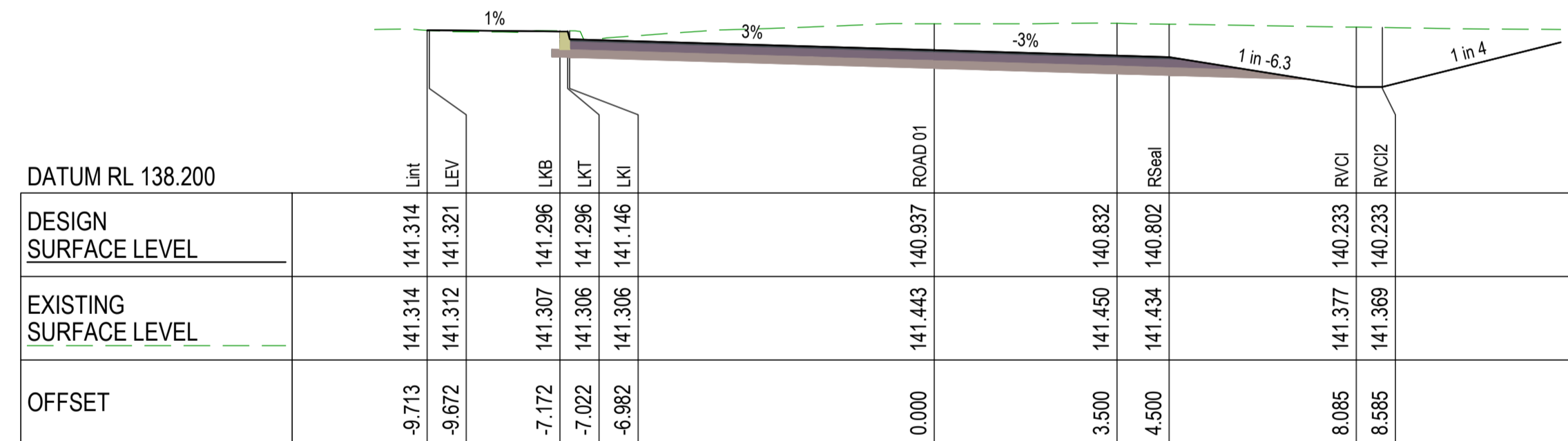
No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



270.000

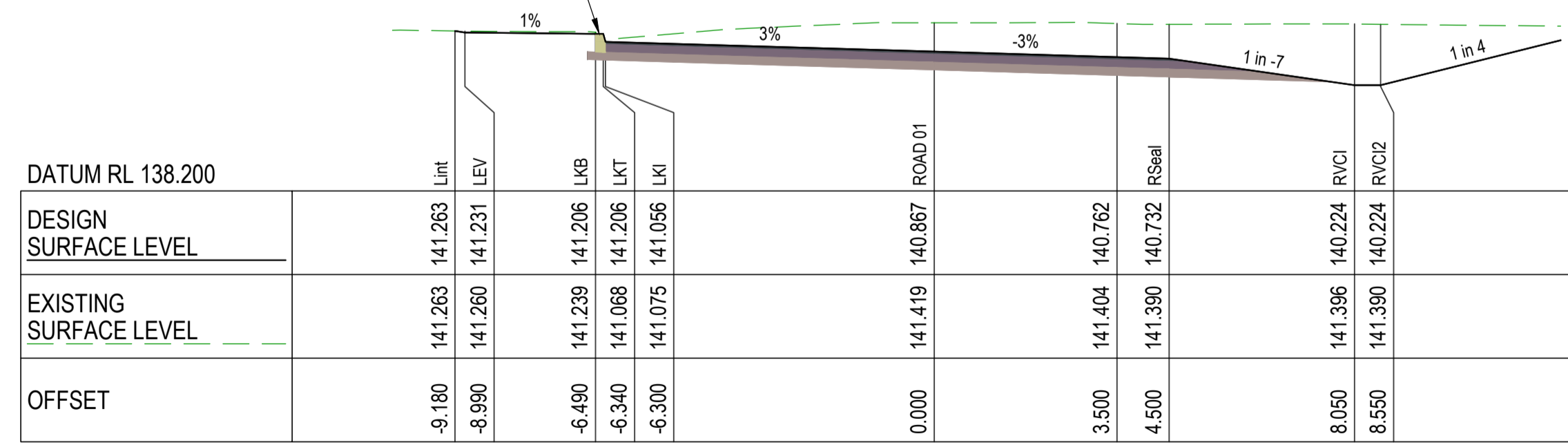


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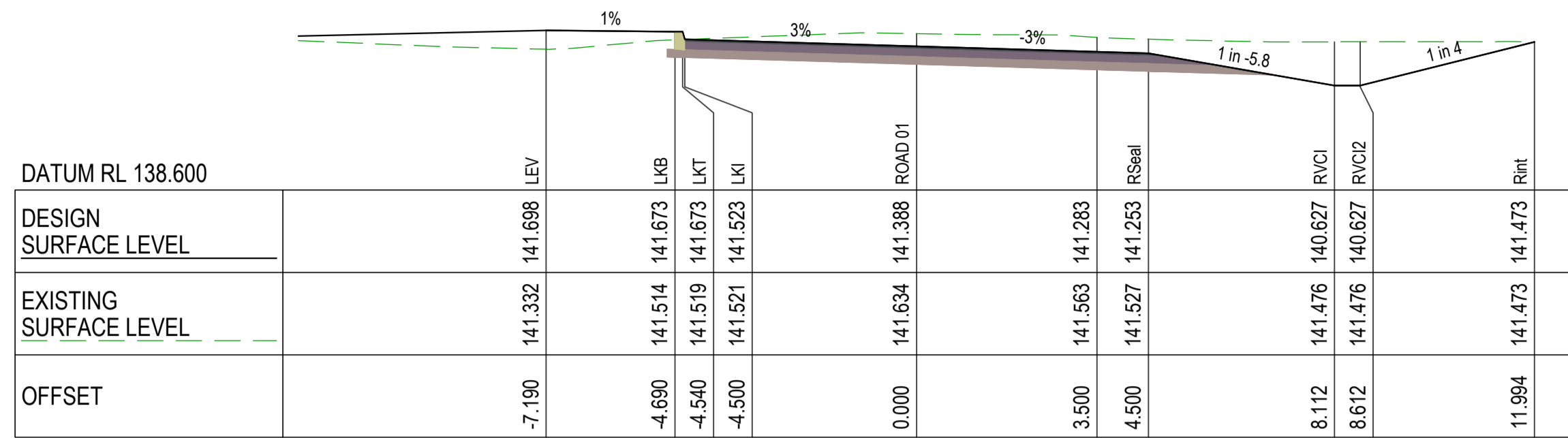
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PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060

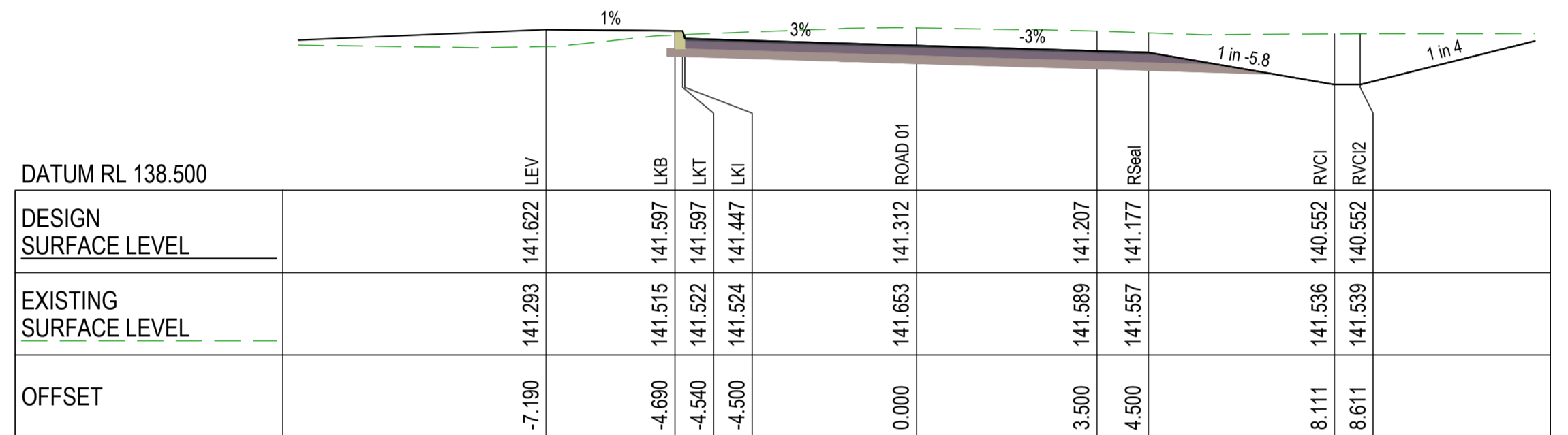


240.000

CROSS SECTIONS WALLOON STREET

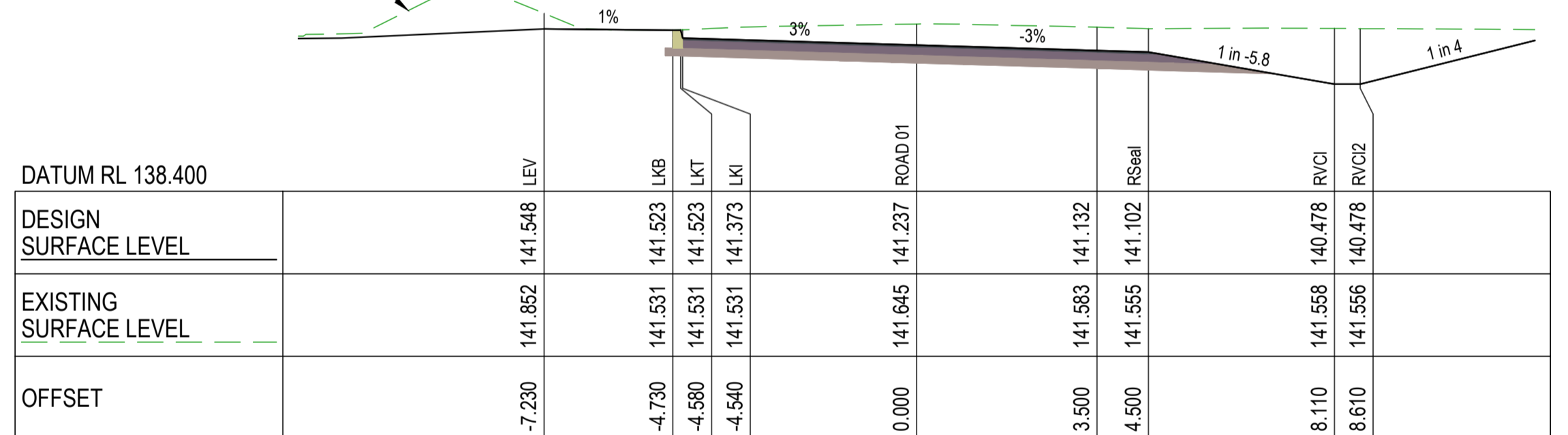


310.000



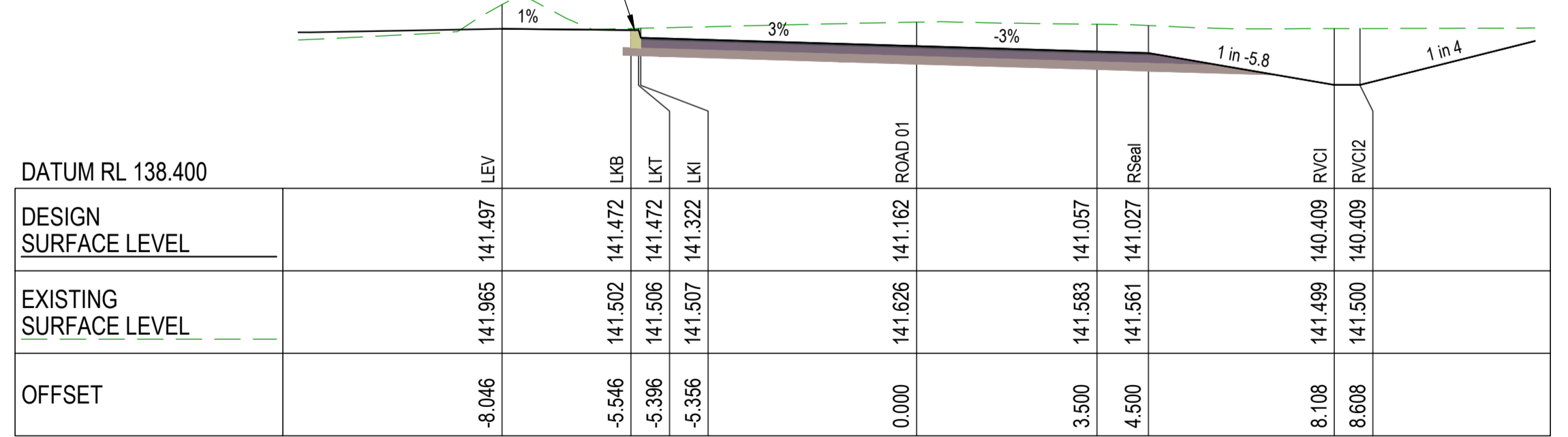
300.000

RETAIN EXISTING EARTHMOUD WHERE POSSIBLE, EDGES TO BE SHAPED ON SITE TO FINISHED SURFACE



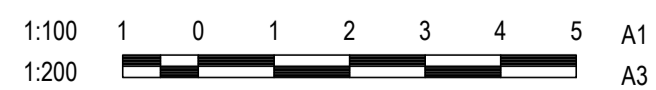
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PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060



280.000

CROSS SECTIONS WALLOON STREET



DESIGN CS
DRAWN CS
DESIGN CHECK SS

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Director: TONY SHELLEY
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 4 OF 17

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-116	27 OF 85	1

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

-INTERSECTION PARTRIDGE DRIVE (EAST) -

DATUM RL 139.100										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

350.000

PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060

-INTERSECTION PARTRIDGE DRIVE (EAST) -

DATUM RL 139.000										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

340.000

PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060

DATUM RL 138.800										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

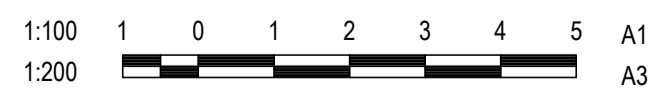
330.000

PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060

DATUM RL 138.600										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

320.000

CROSS SECTIONS WALLOON STREET



NEWLY CONSTRUCTED IRRIGATION MAIN (BY OTHERS)

DATUM RL 137.900										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

390.000

DATUM RL 139.200										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

380.000

DATUM RL 139.200										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

370.000

DATUM RL 139.200										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

360.000

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

DESIGN CS
DRAWN CS
DESIGN CHECK SS

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Director: TONY SHELLEY
(RPEQ 7736)

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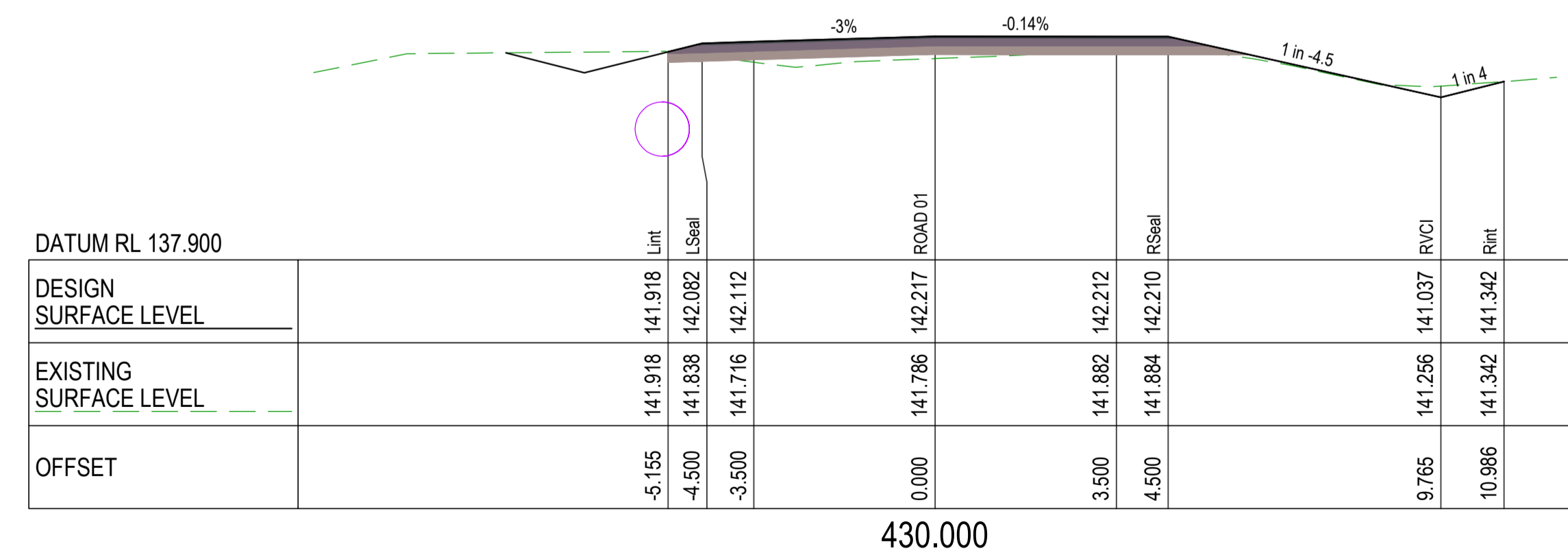
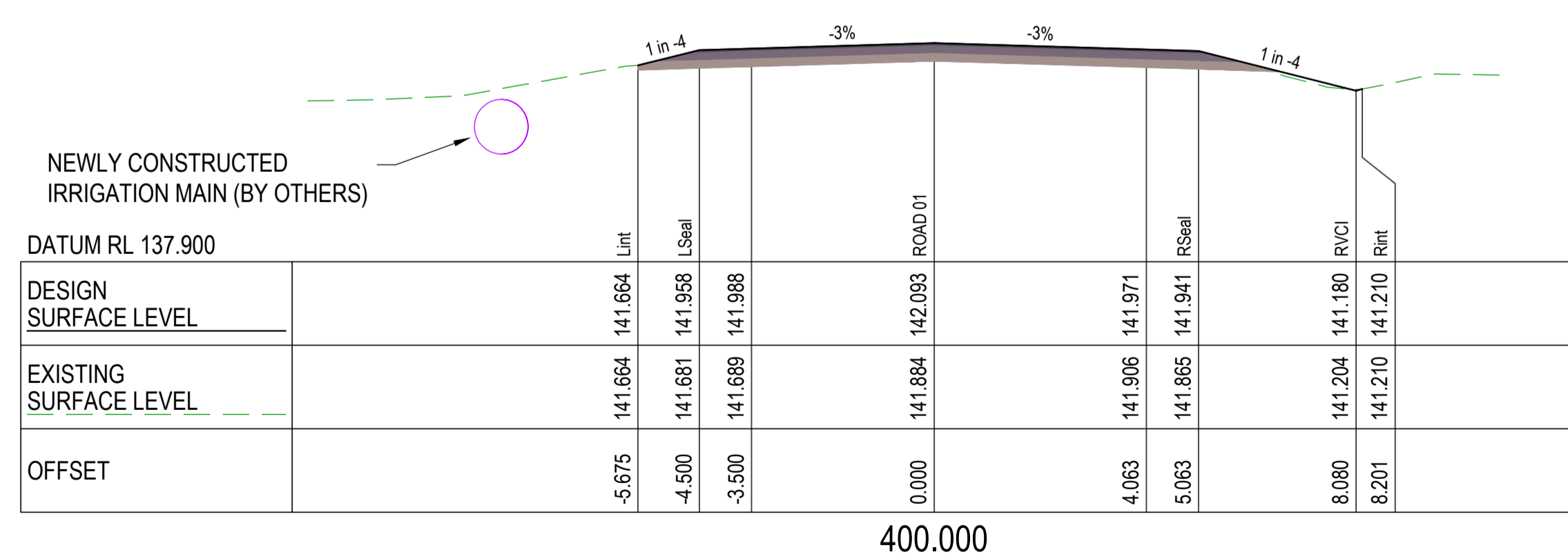
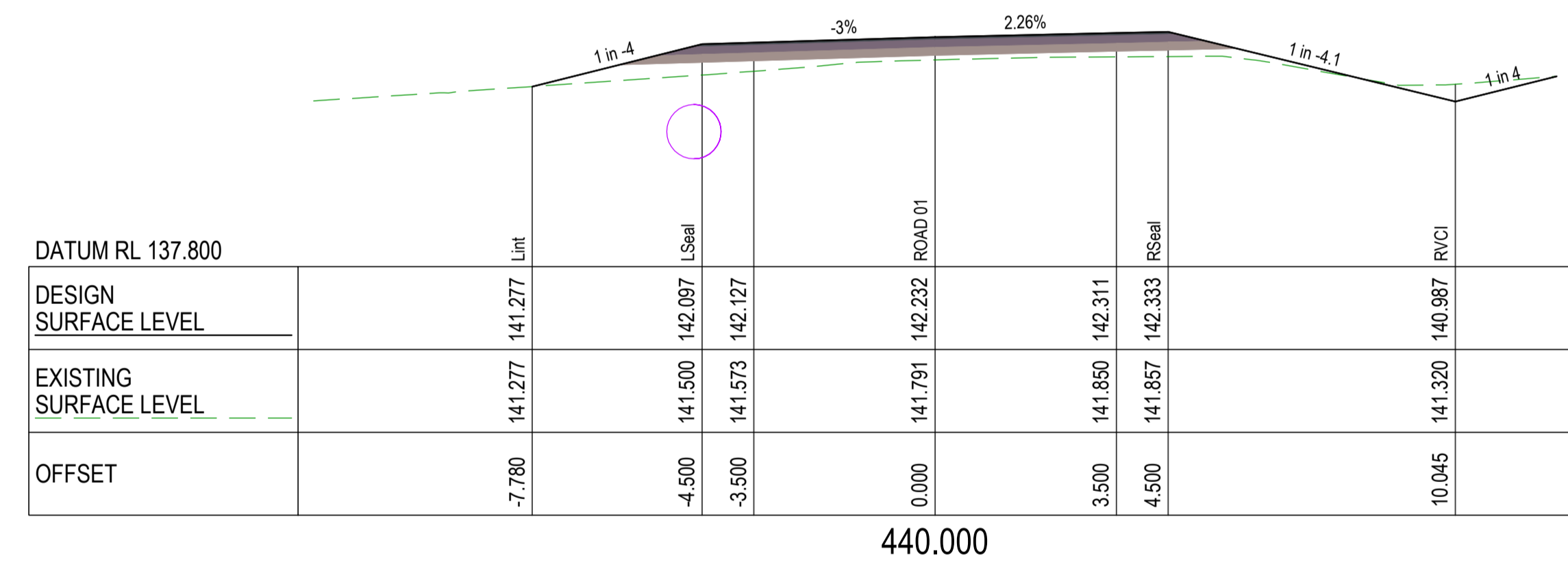
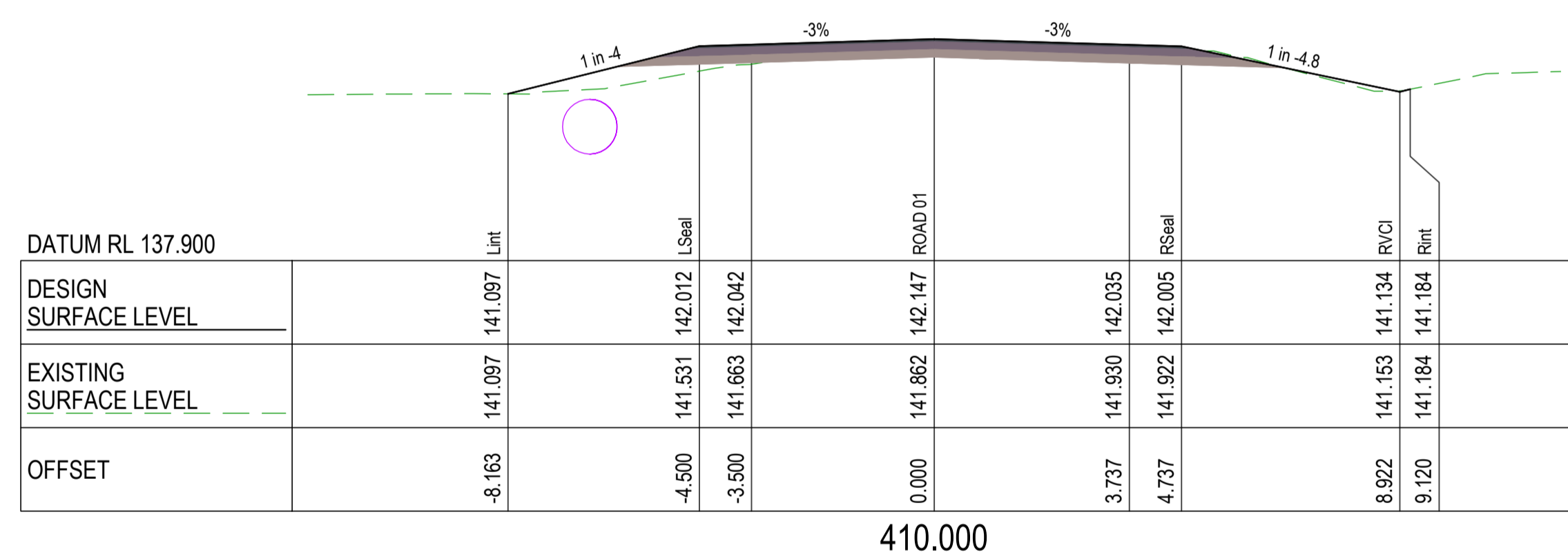
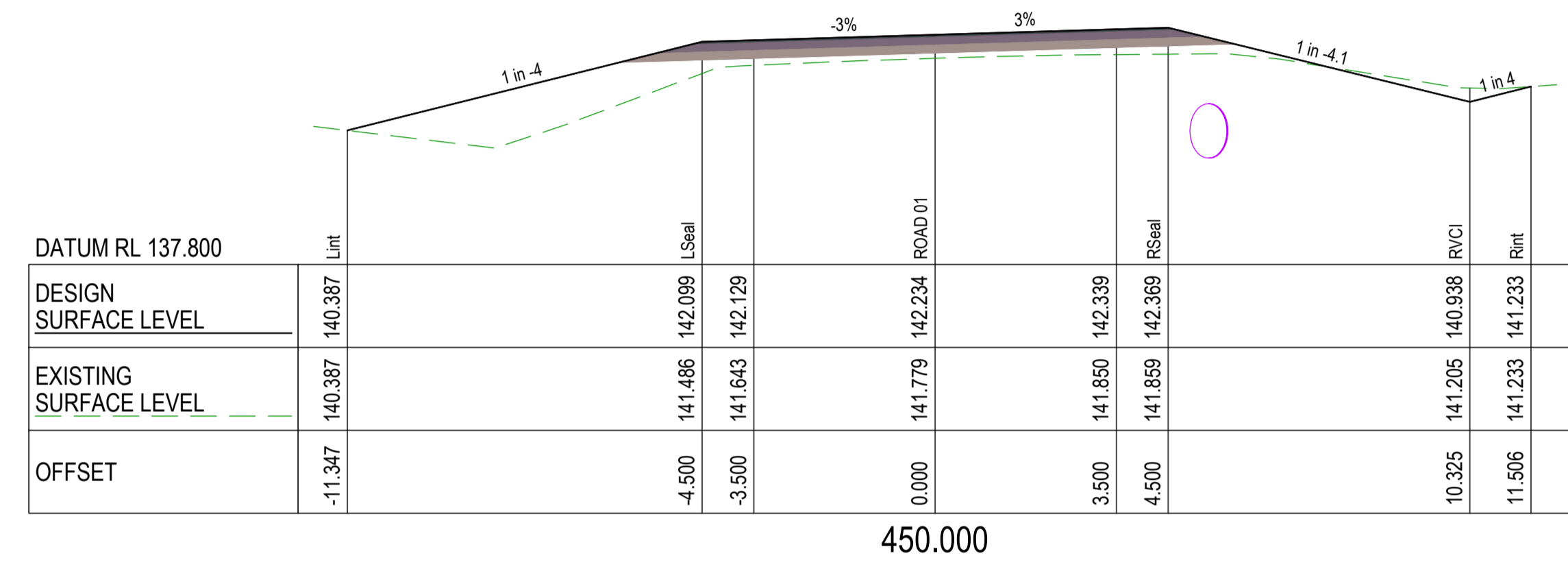
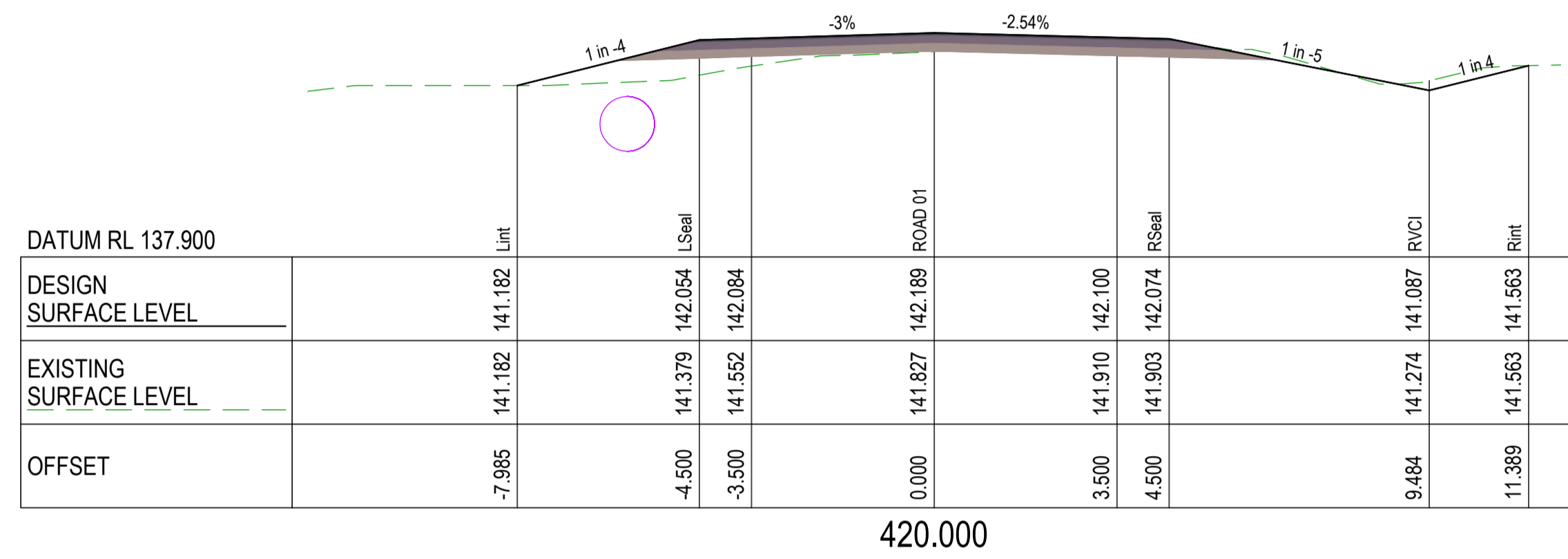
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E office@barlowshelley.com.au W www.barlowshelley.com.au
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 5 OF 17

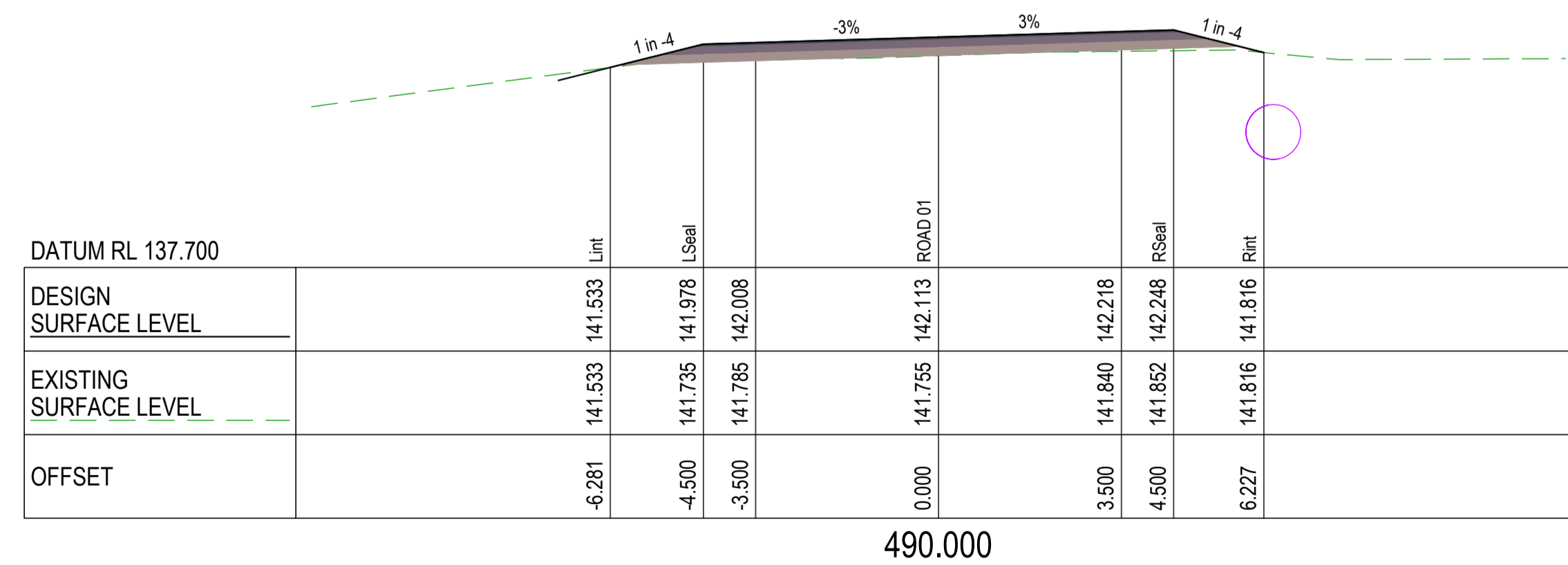
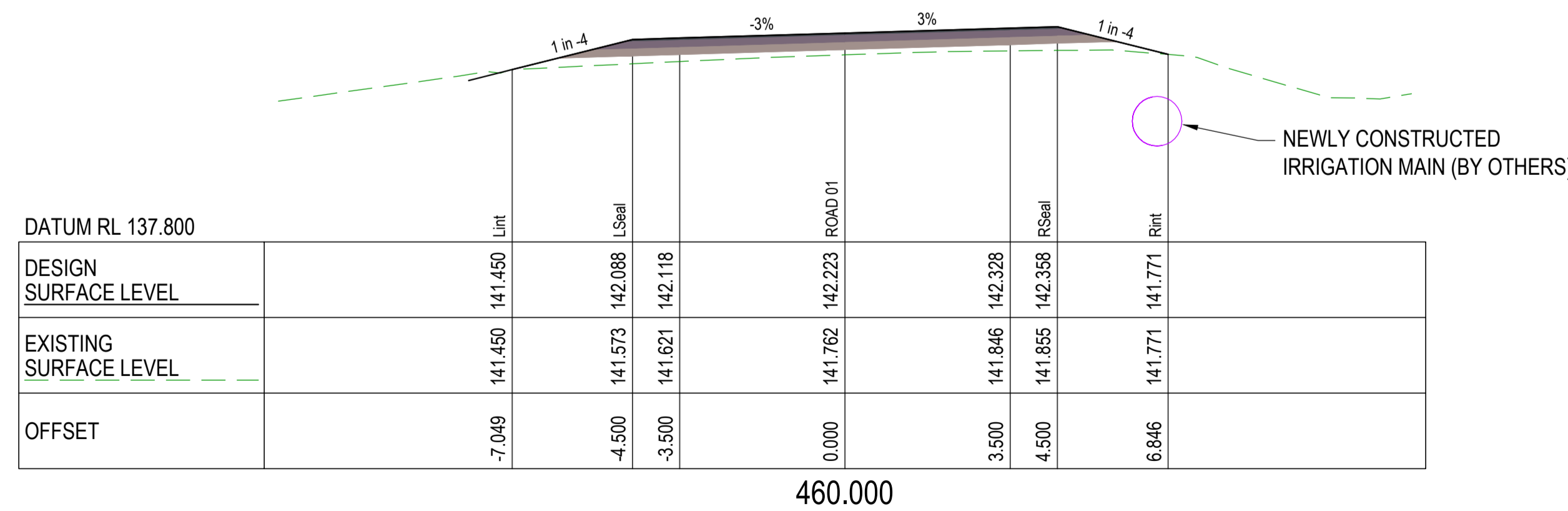
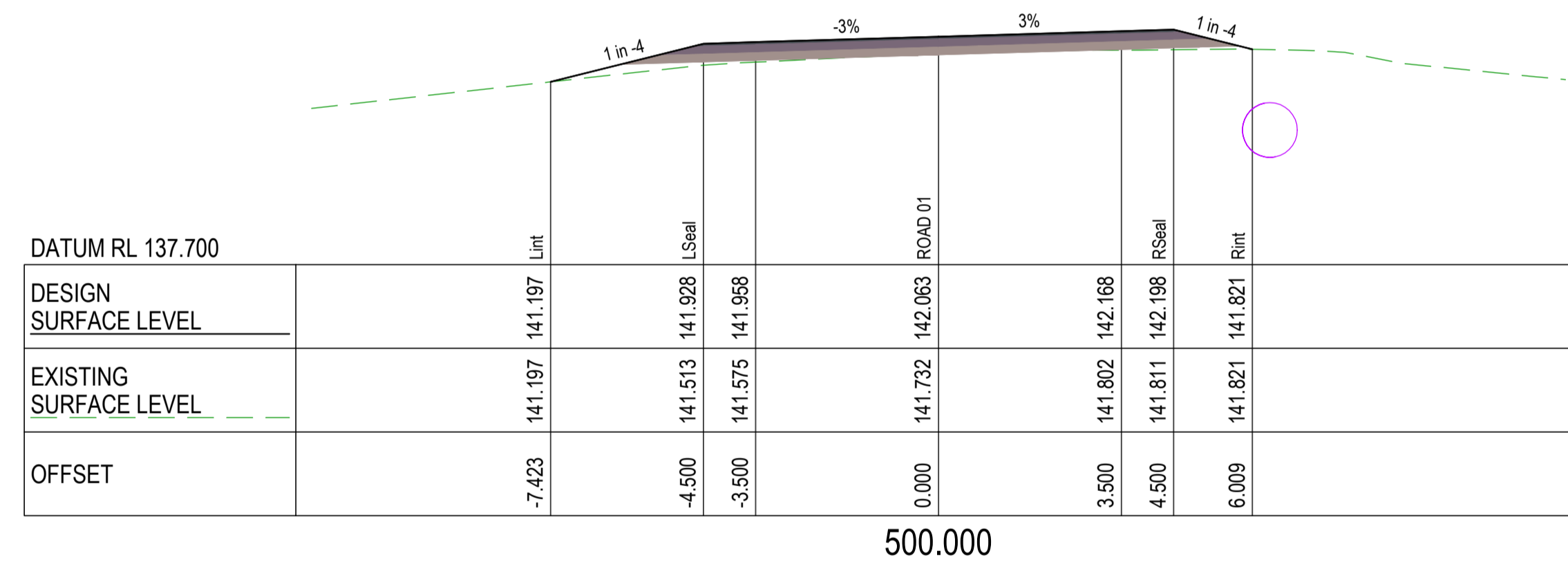
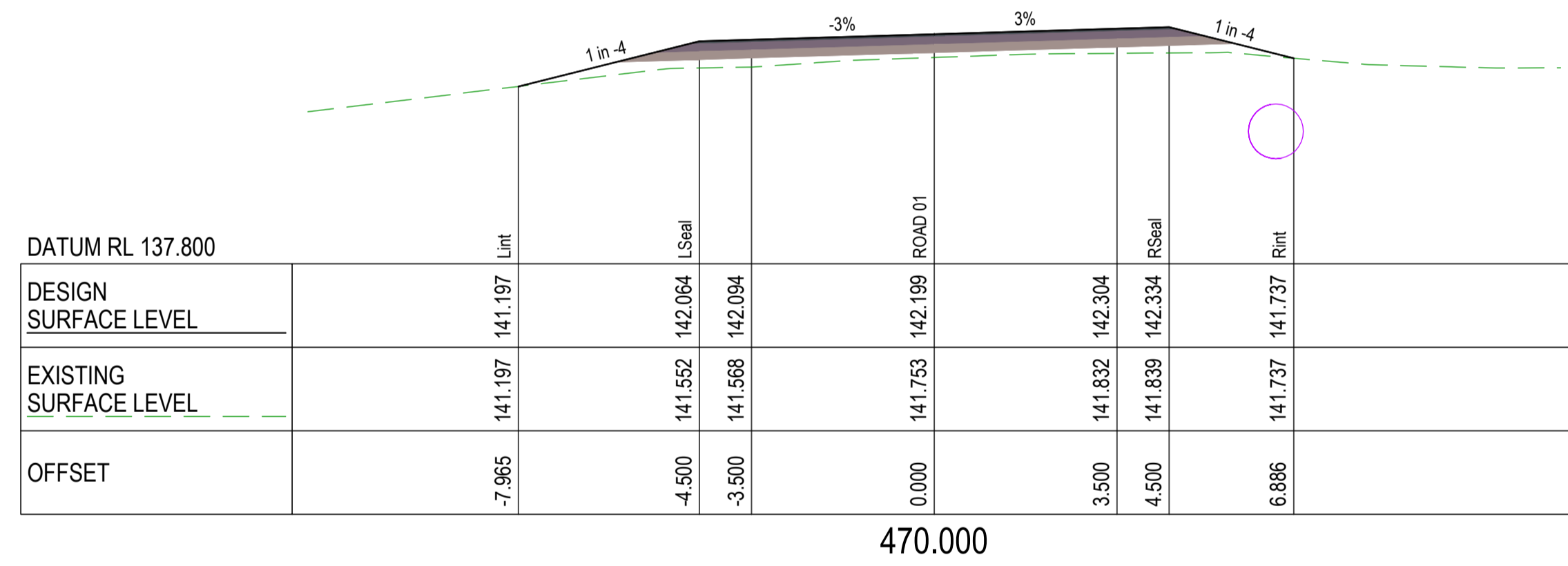
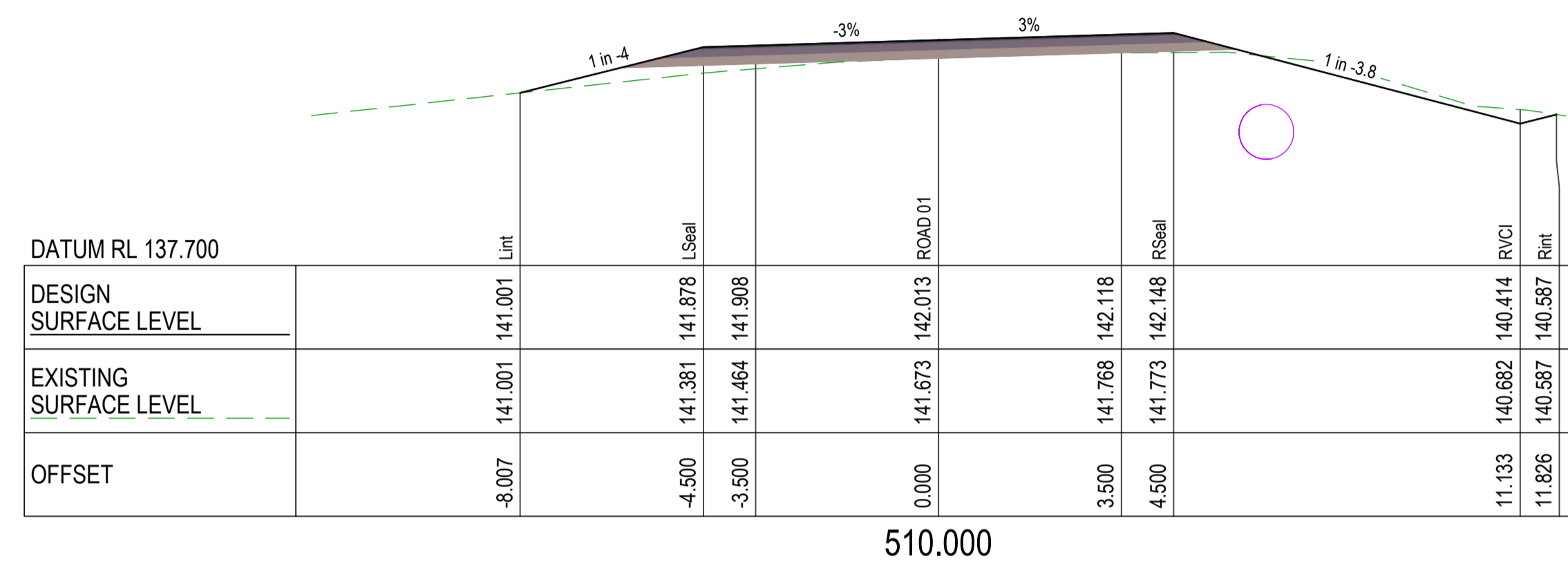
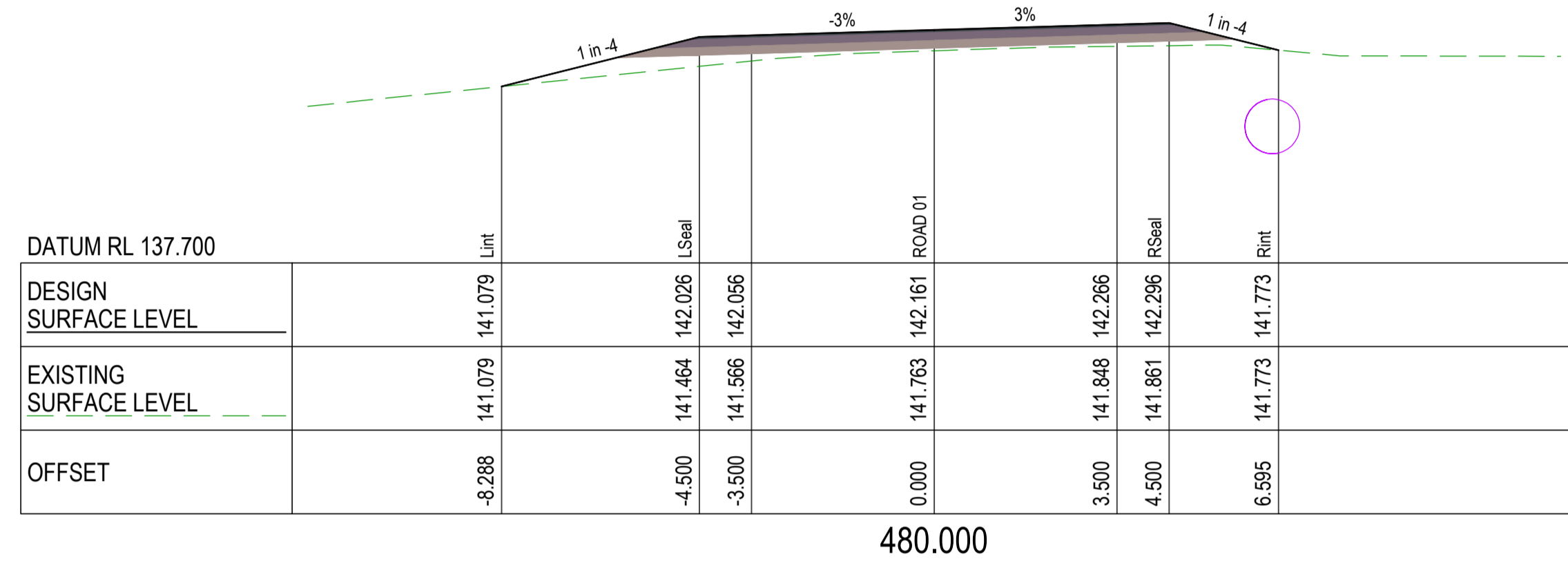
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-117	28 OF 85	1

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)



CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



DESIGN CS
DRAWN CS
DESIGN CHECK SS

Tony Shelley
Director: TONY SHELLEY
(RPEQ 7736)

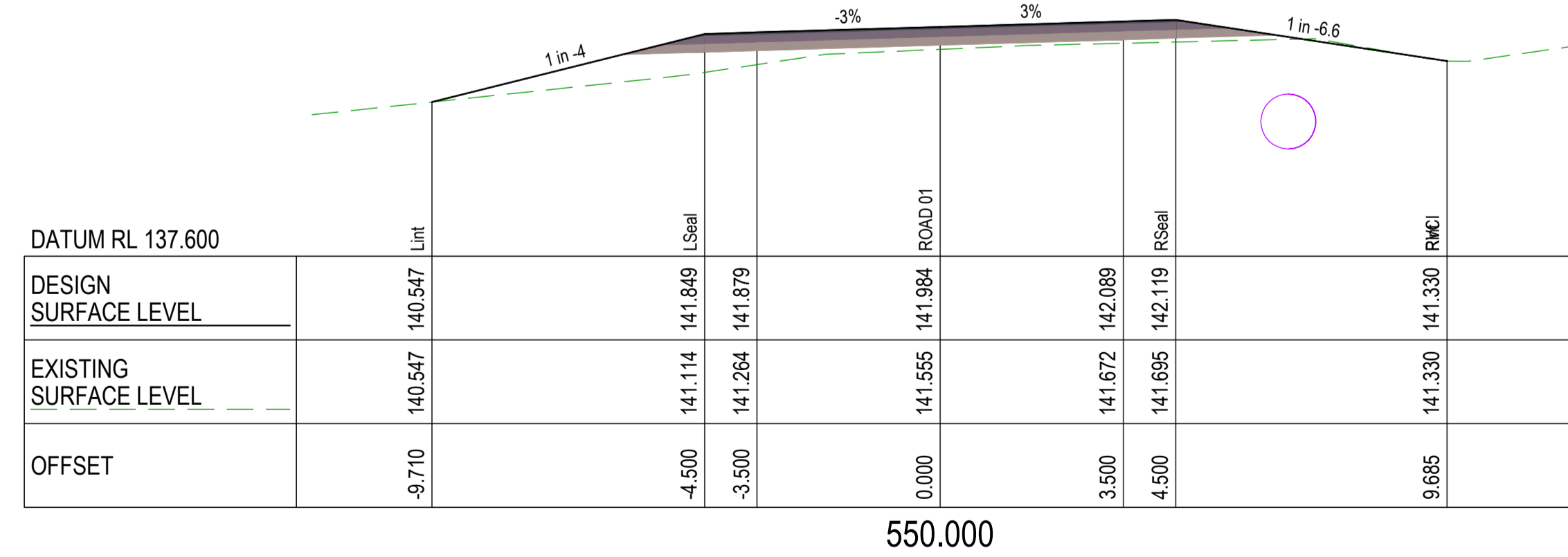
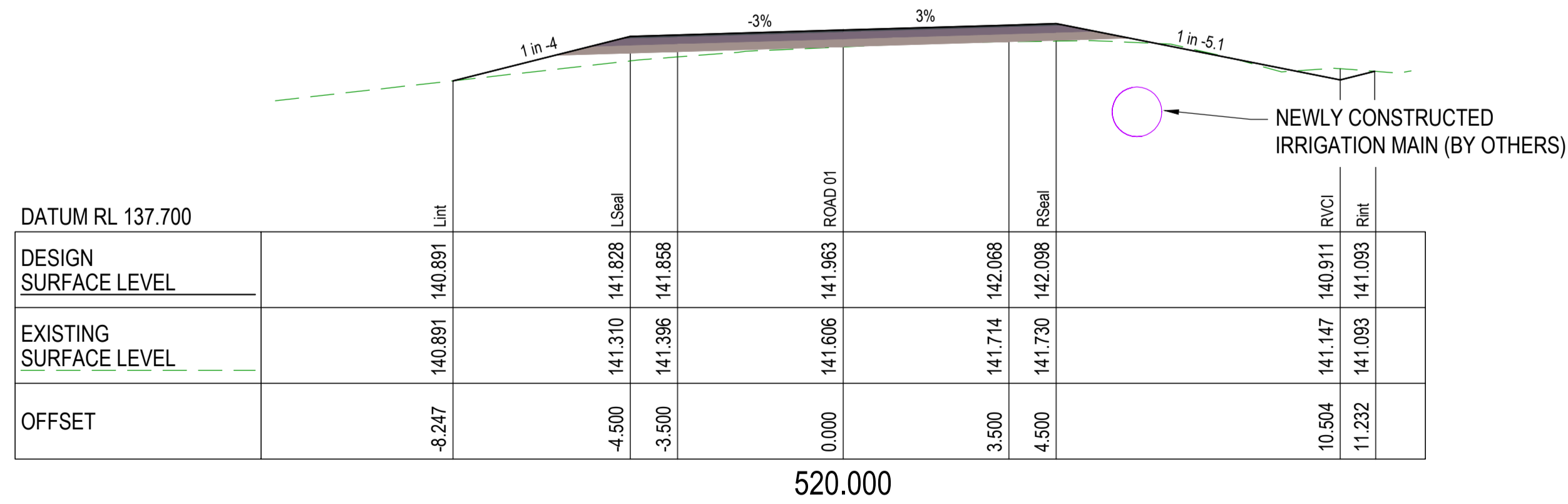
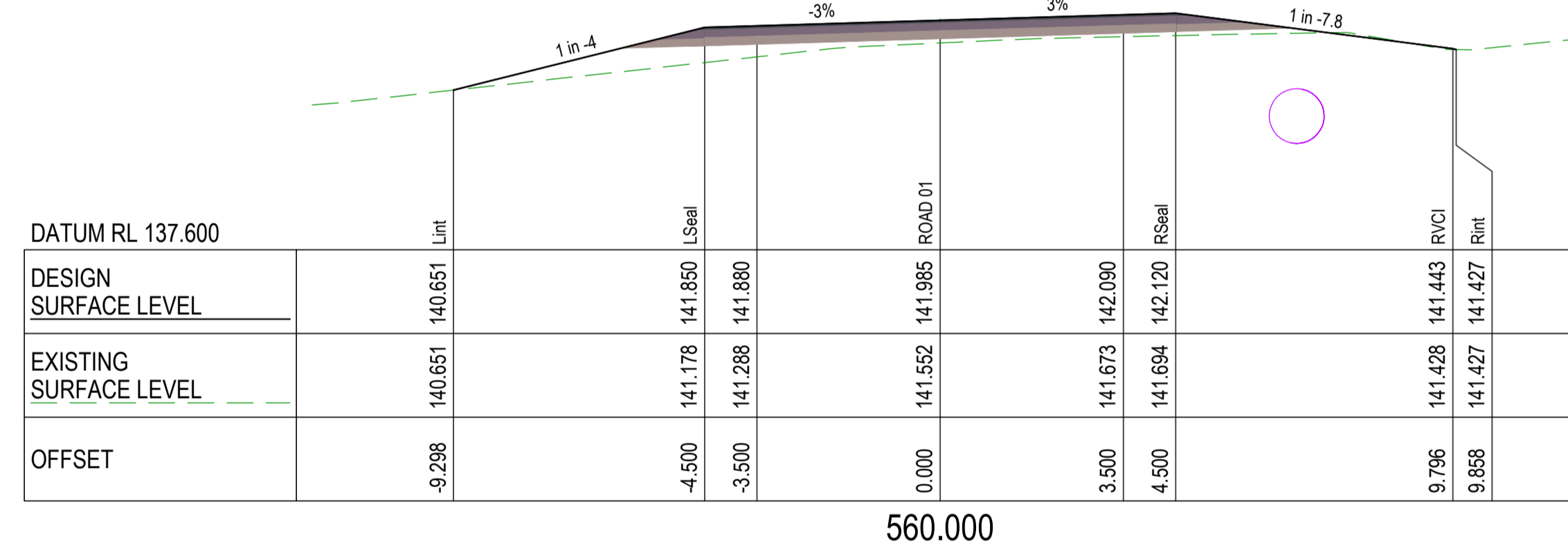
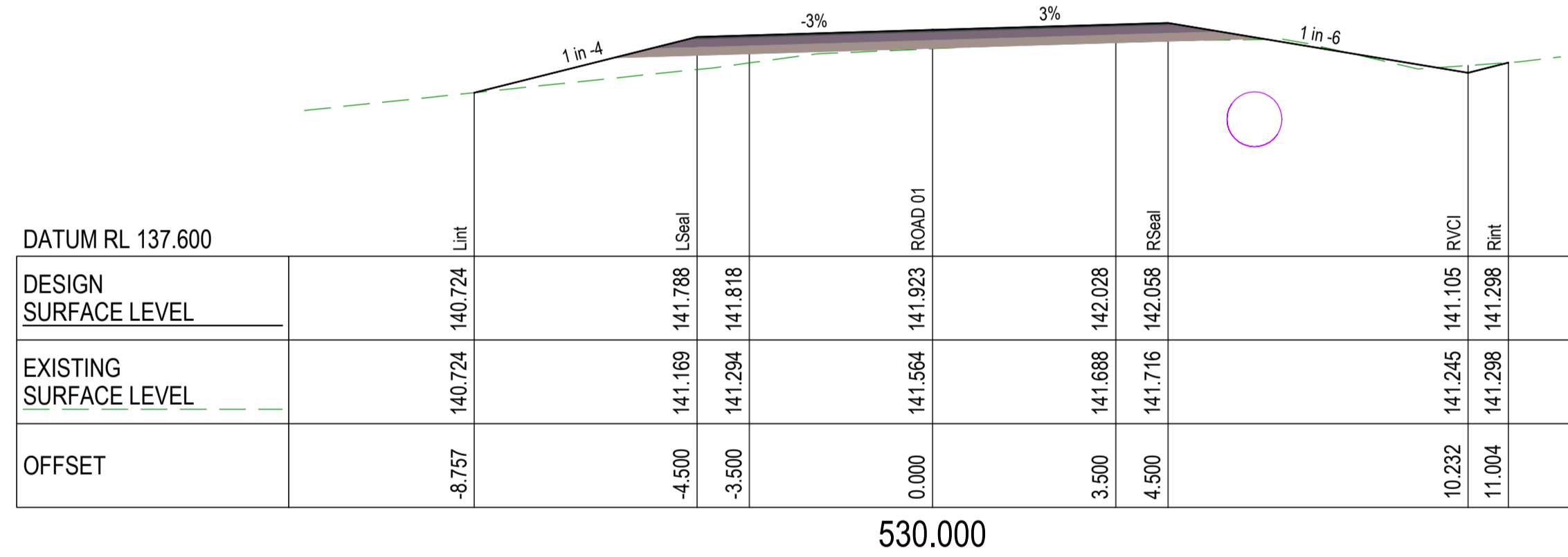
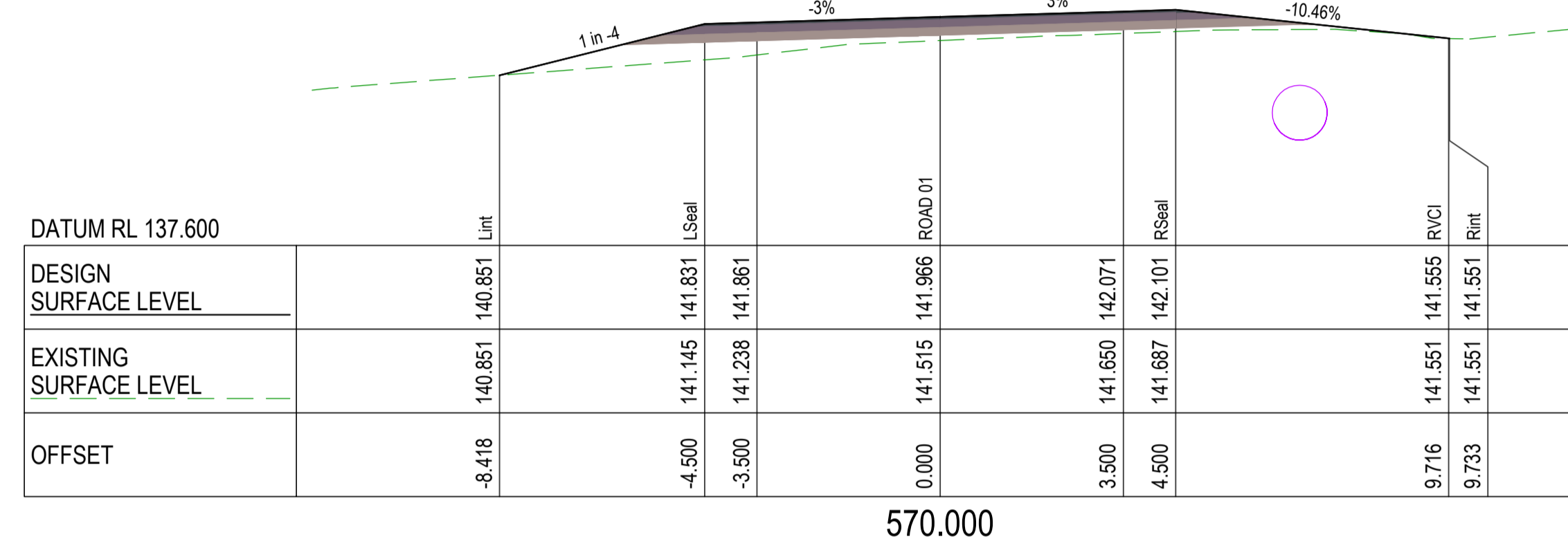
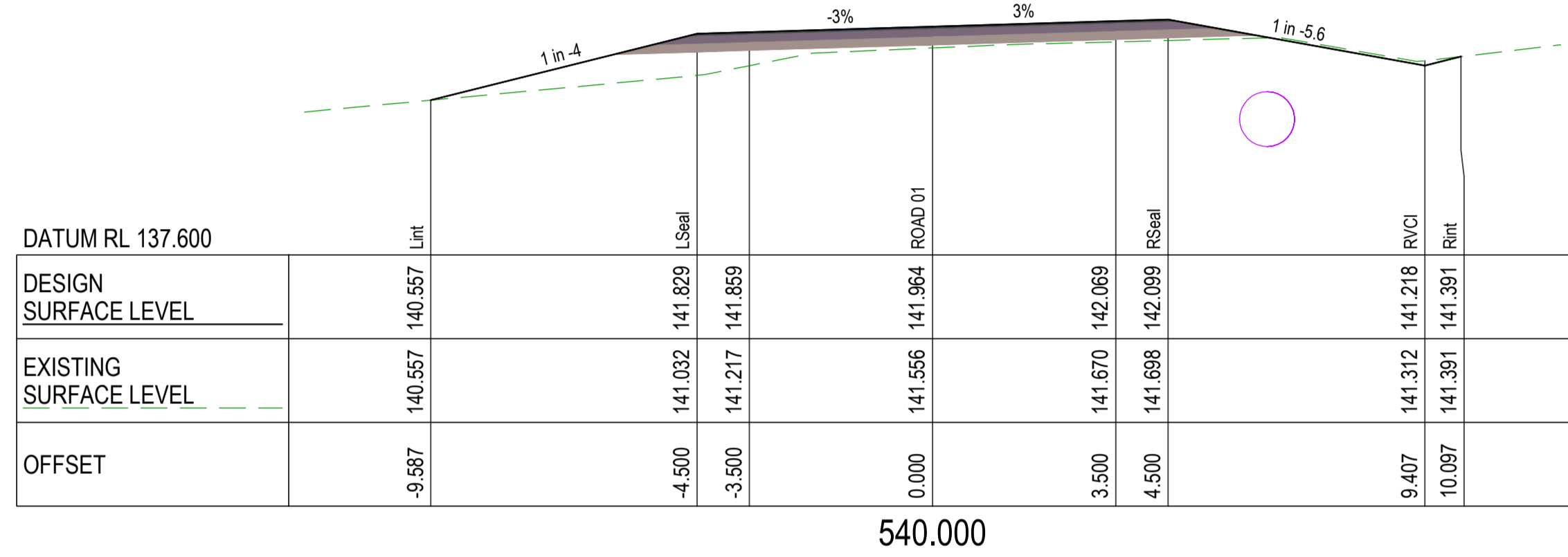
Banana SHIRE
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e office@barlowshelley.com.au w www.barlowshelley.com.au
a PO Box 899 Maroochydore 4558 ABN 89 215 591 077

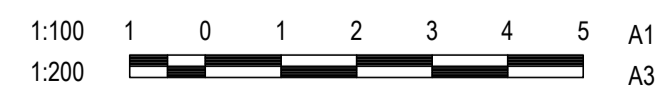
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 7 OF 17

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-119	30 OF 85	1



CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)



DESIGN CS
DRAWN CS
DESIGN CHECK SS

Tony Shelley
Director: TONY SHELLEY
(RPEQ 7736)

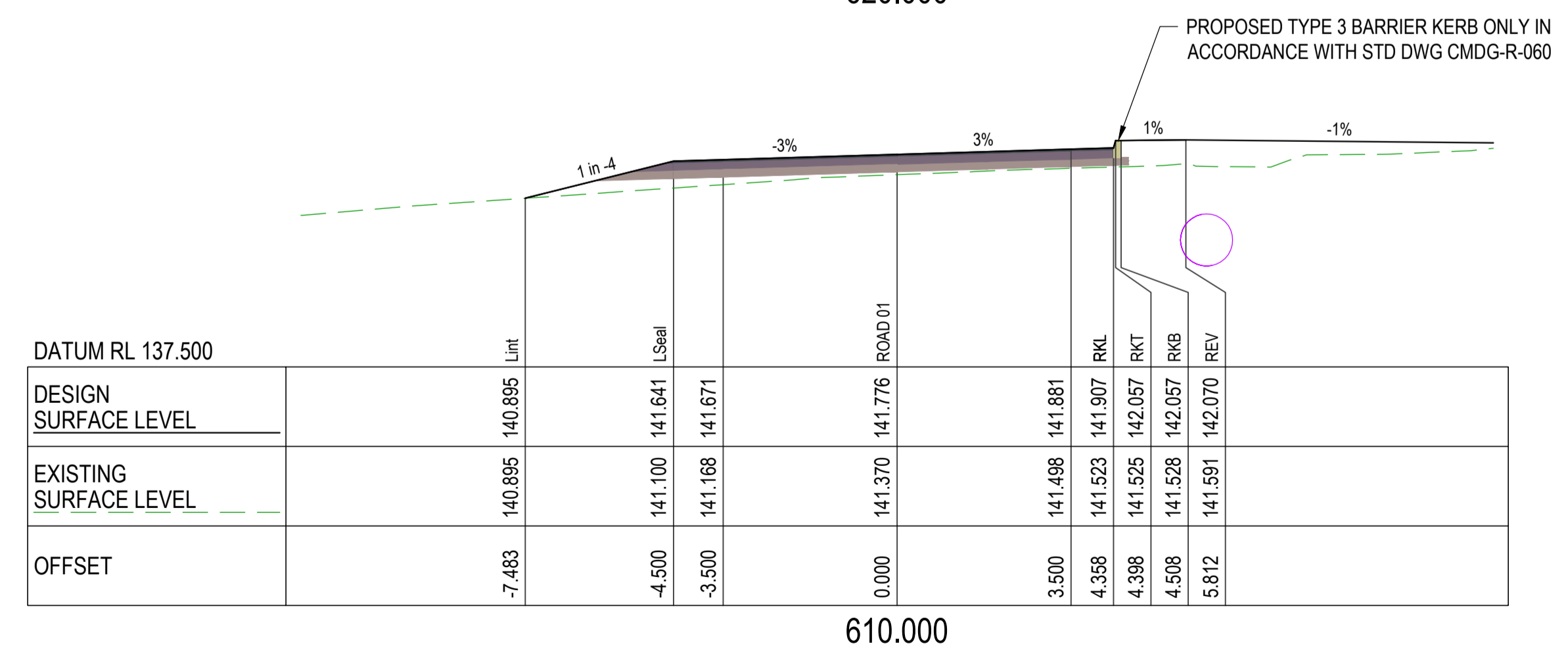
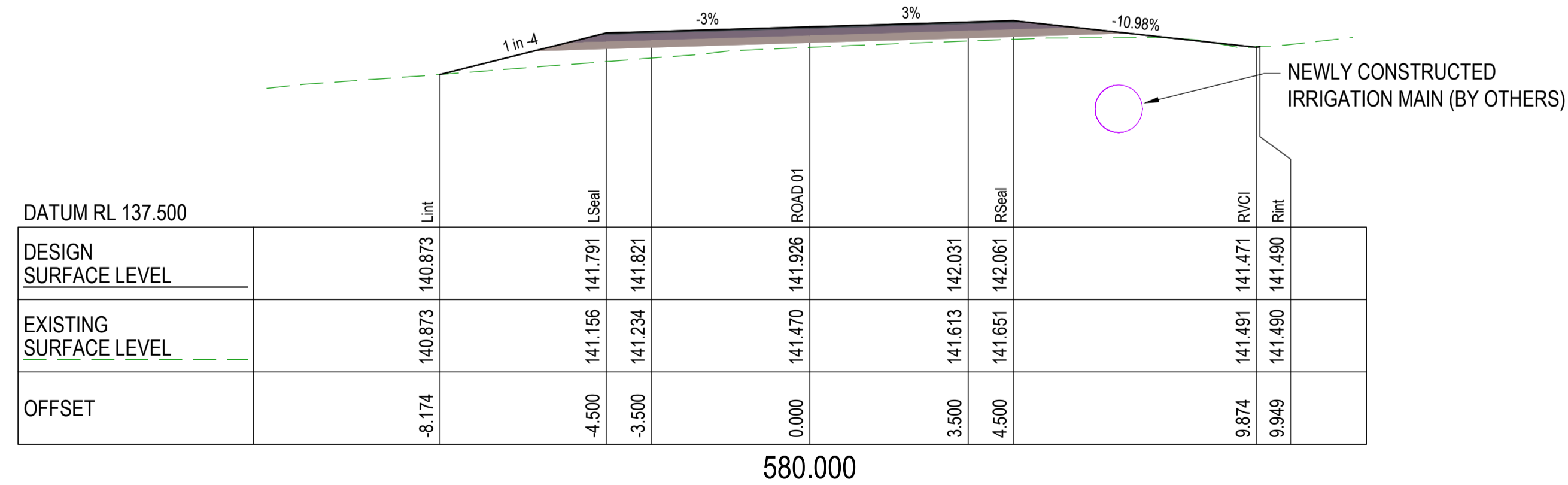
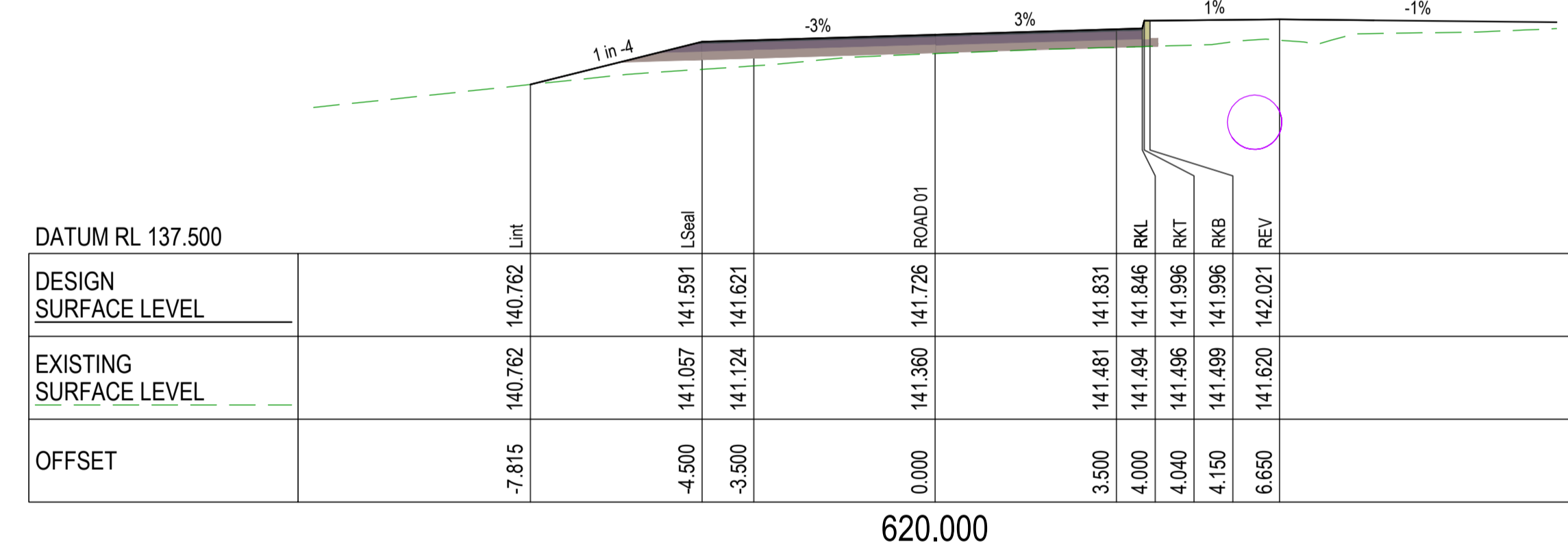
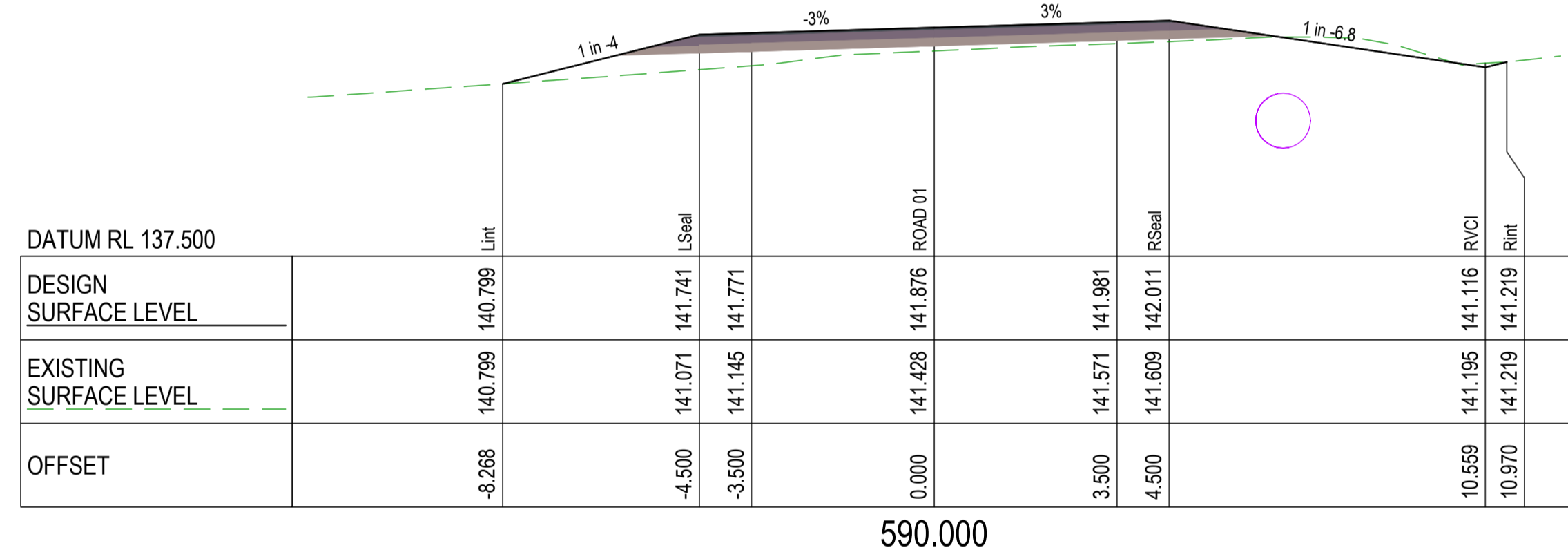
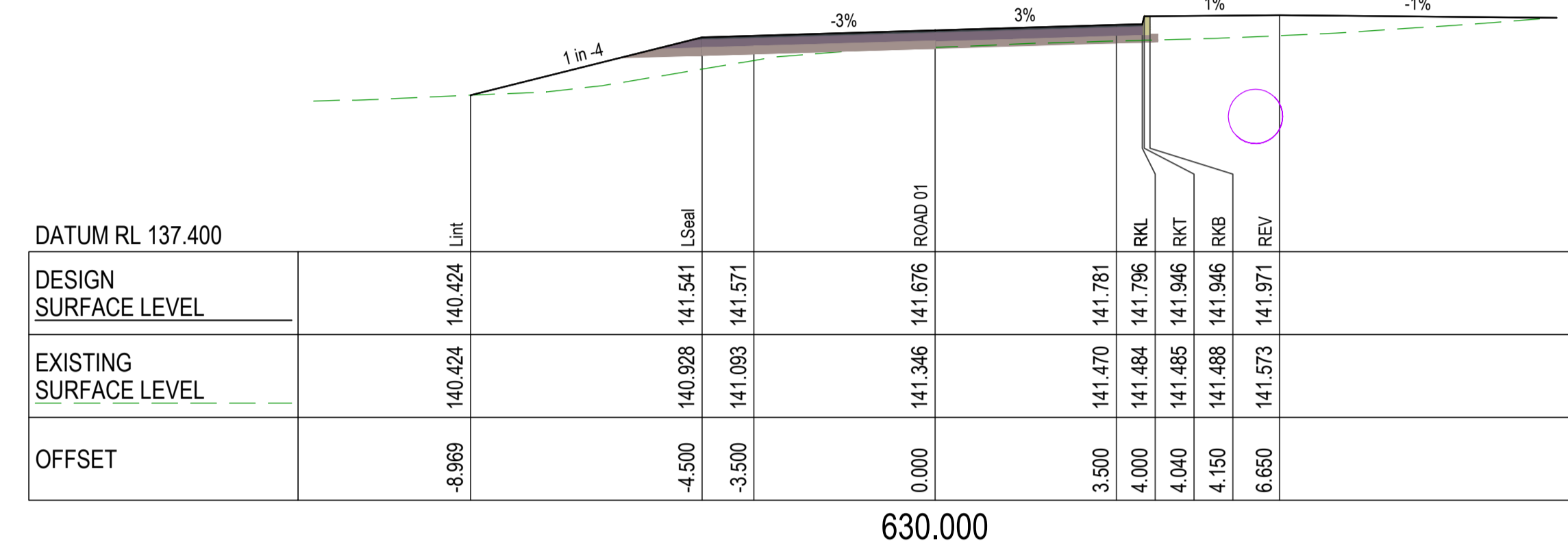
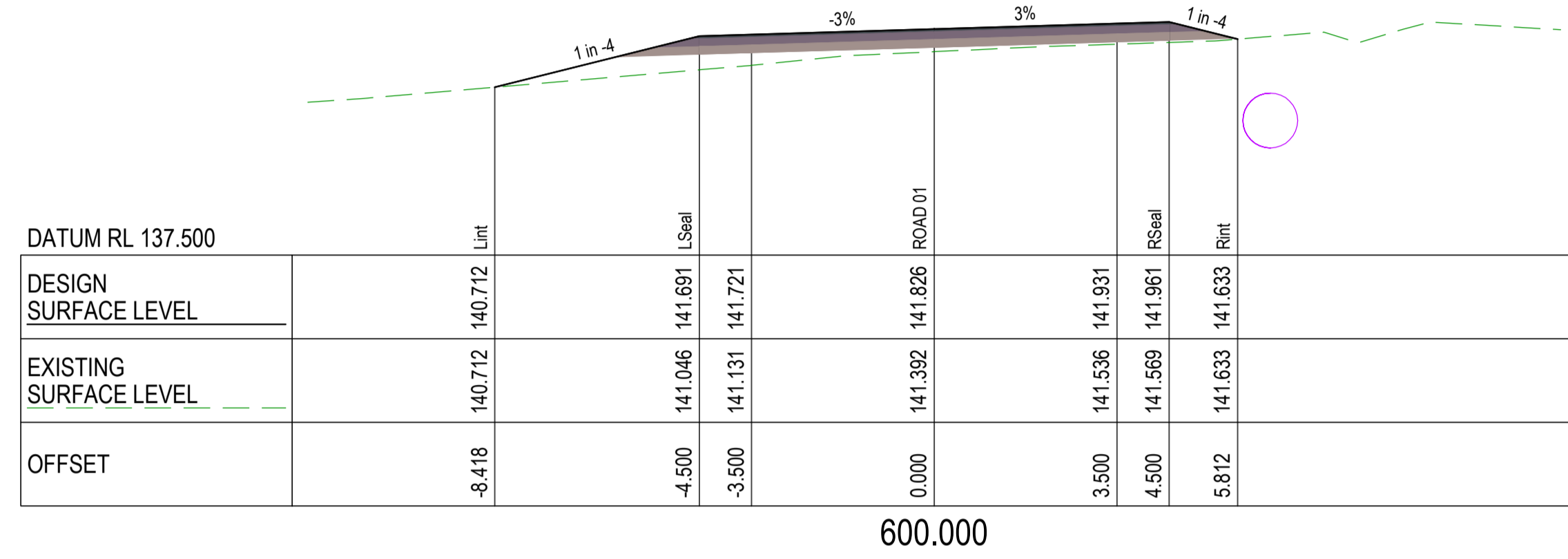


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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 8 OF 17

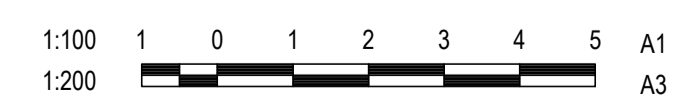
No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



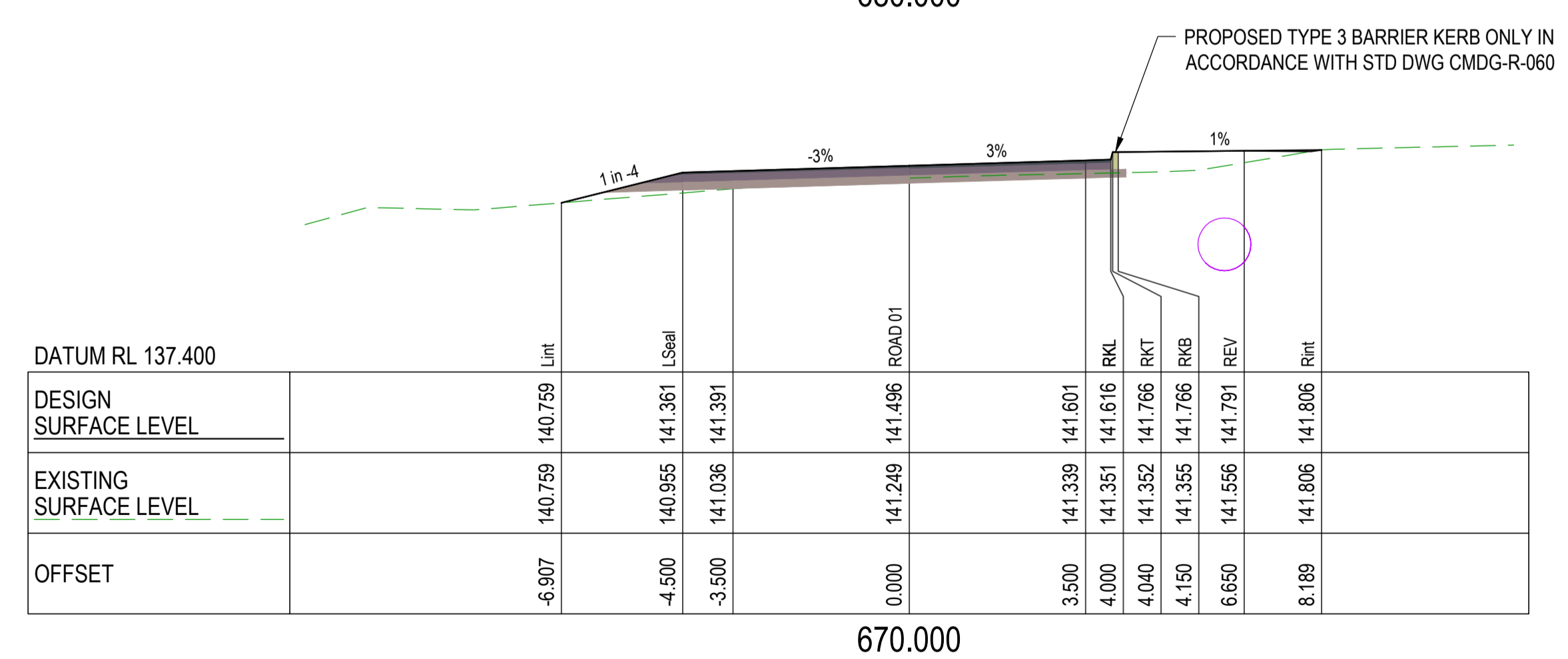
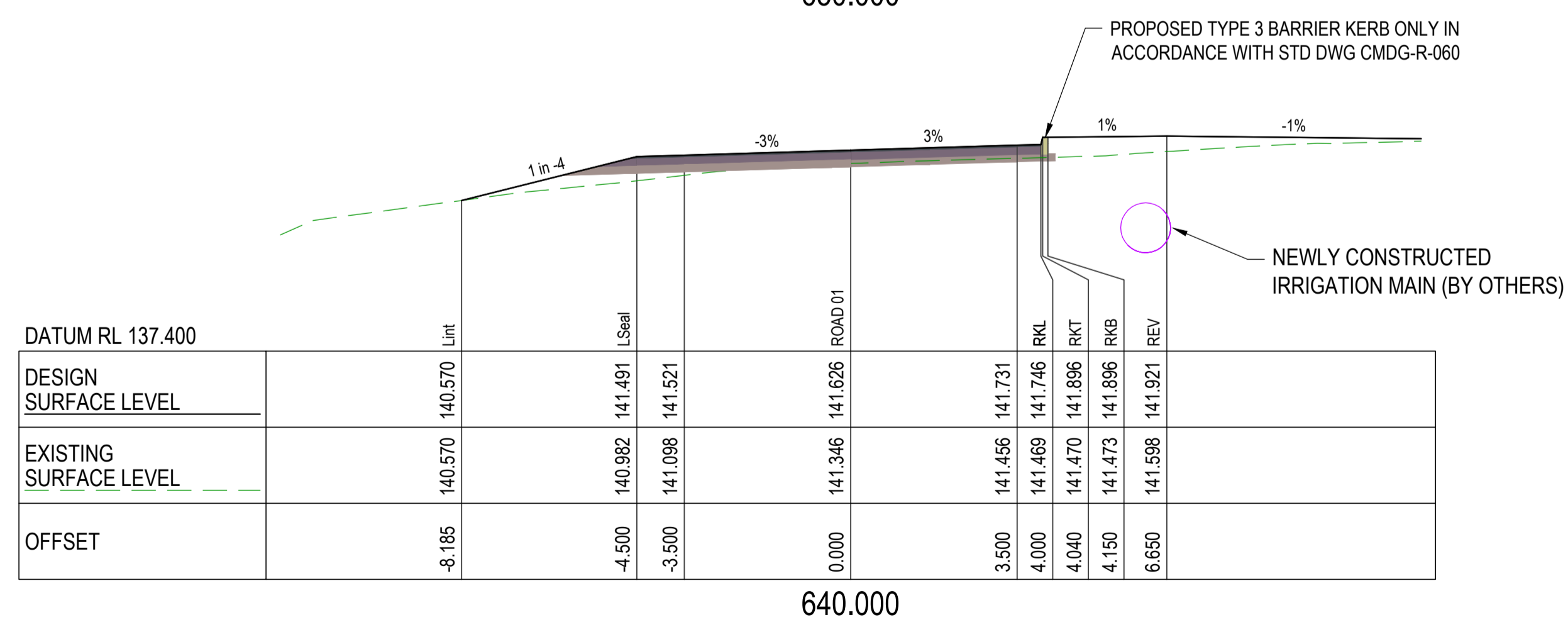
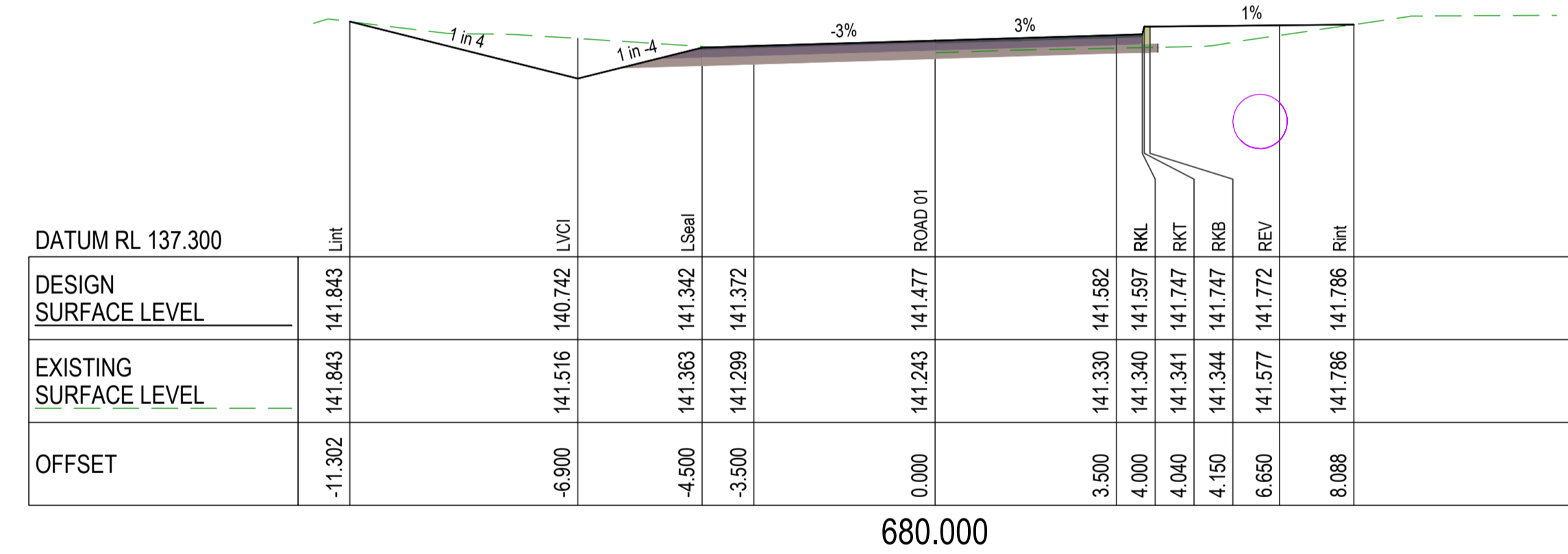
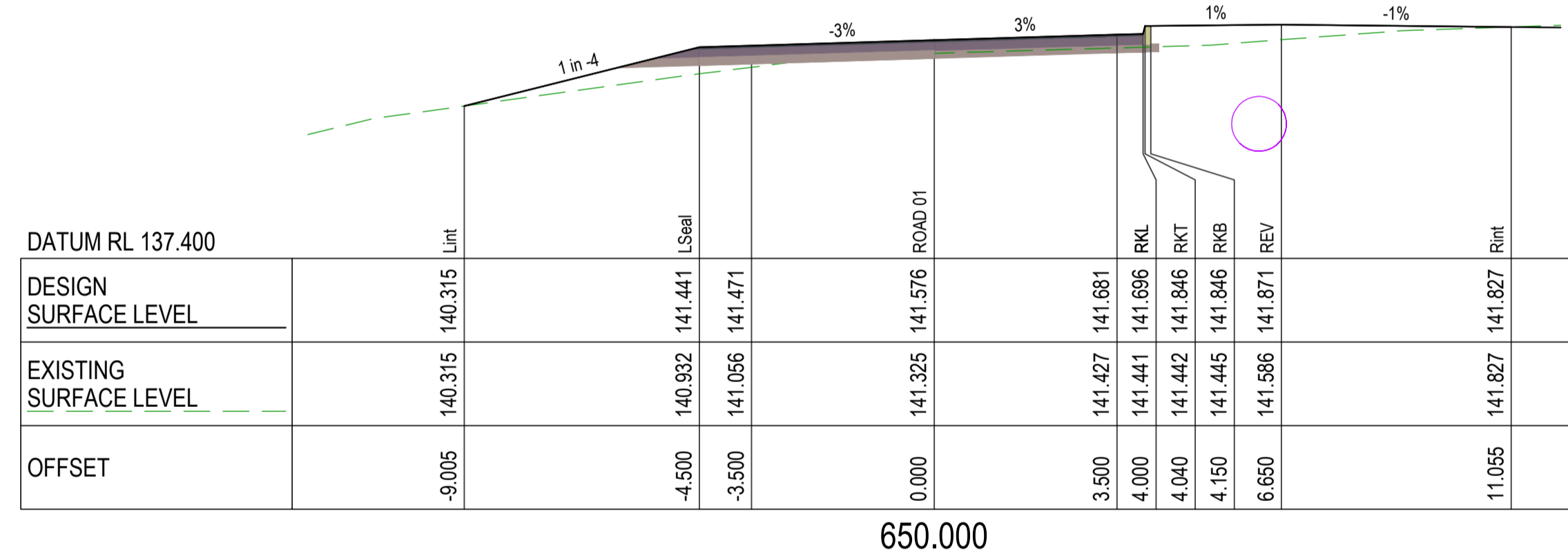
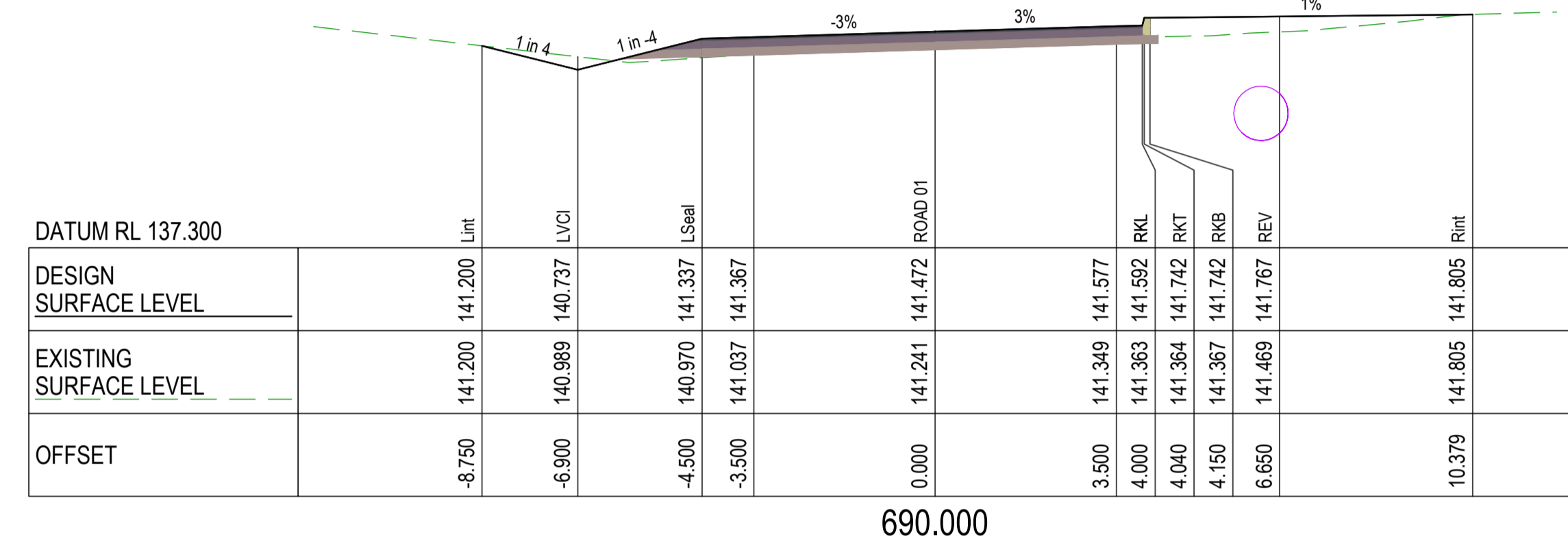
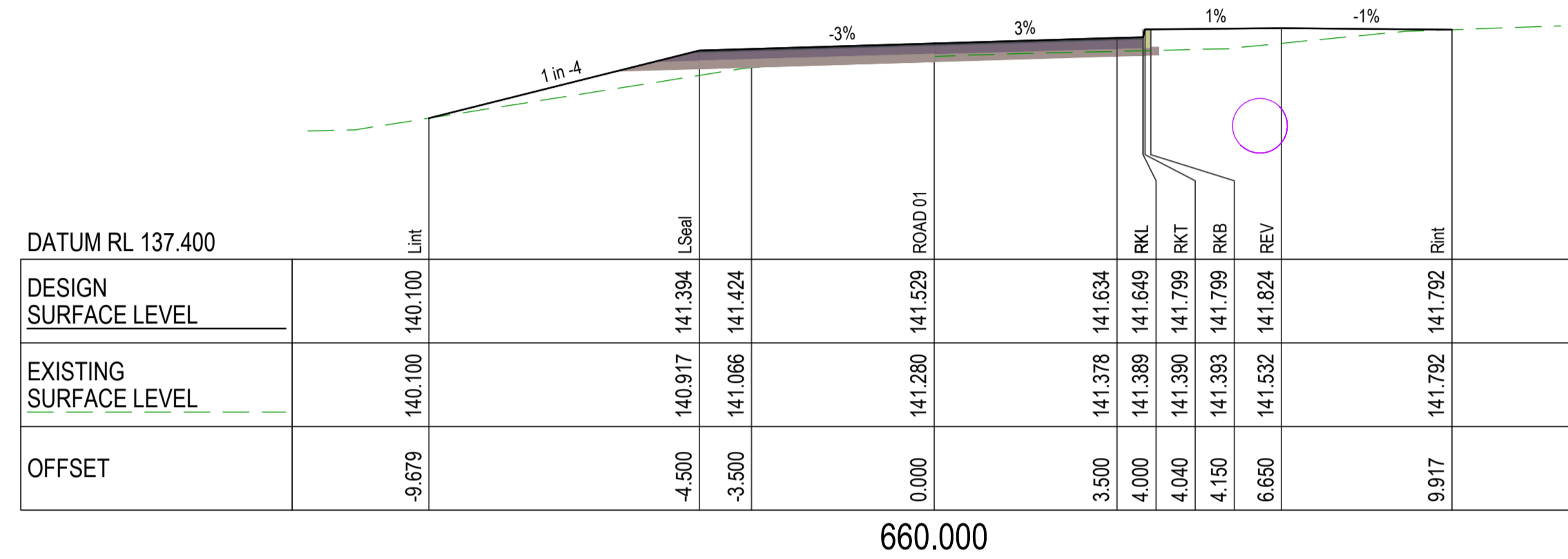
DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS

Tony Shelley
Director: TONY SHELLEY (RPEQ 7736)

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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 9 OF 17

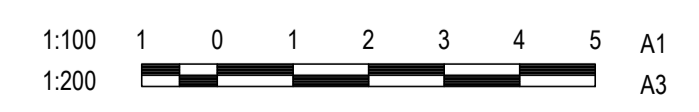
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-121	32 OF 85	1



CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

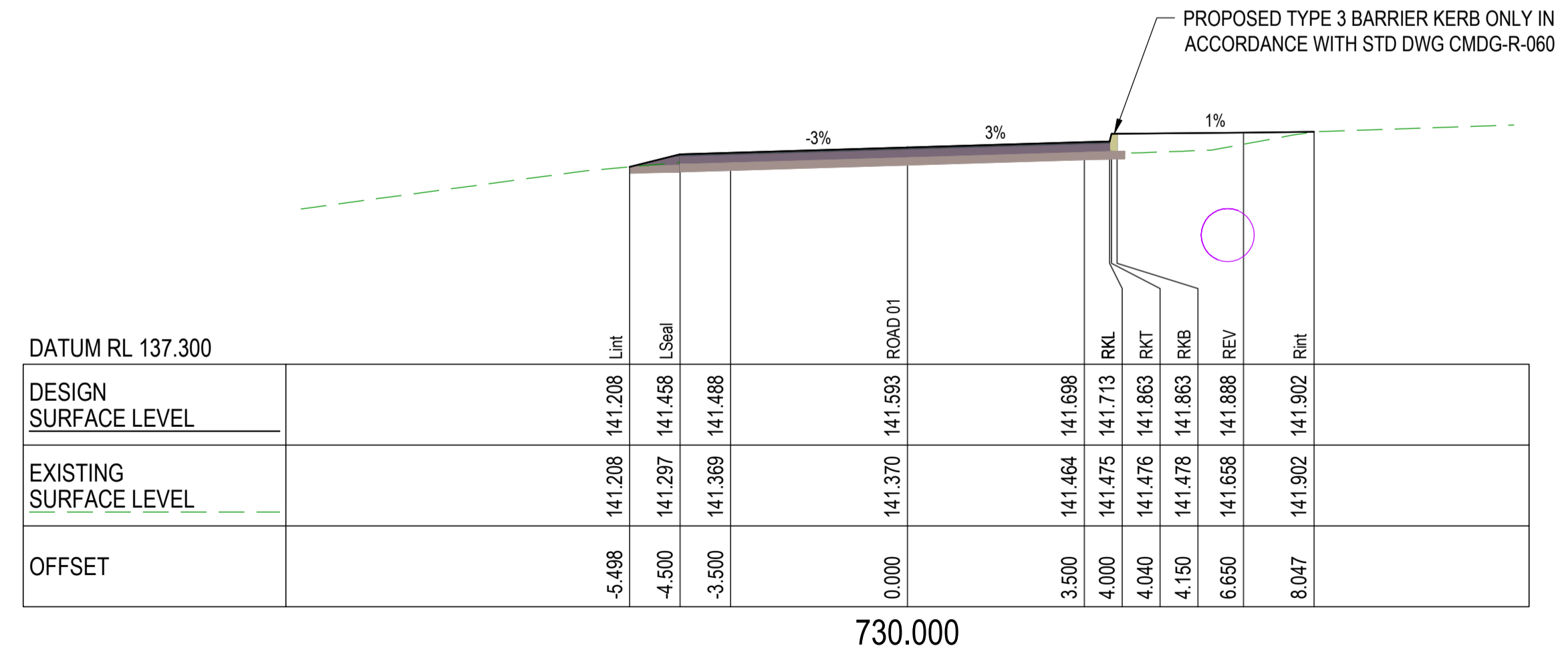
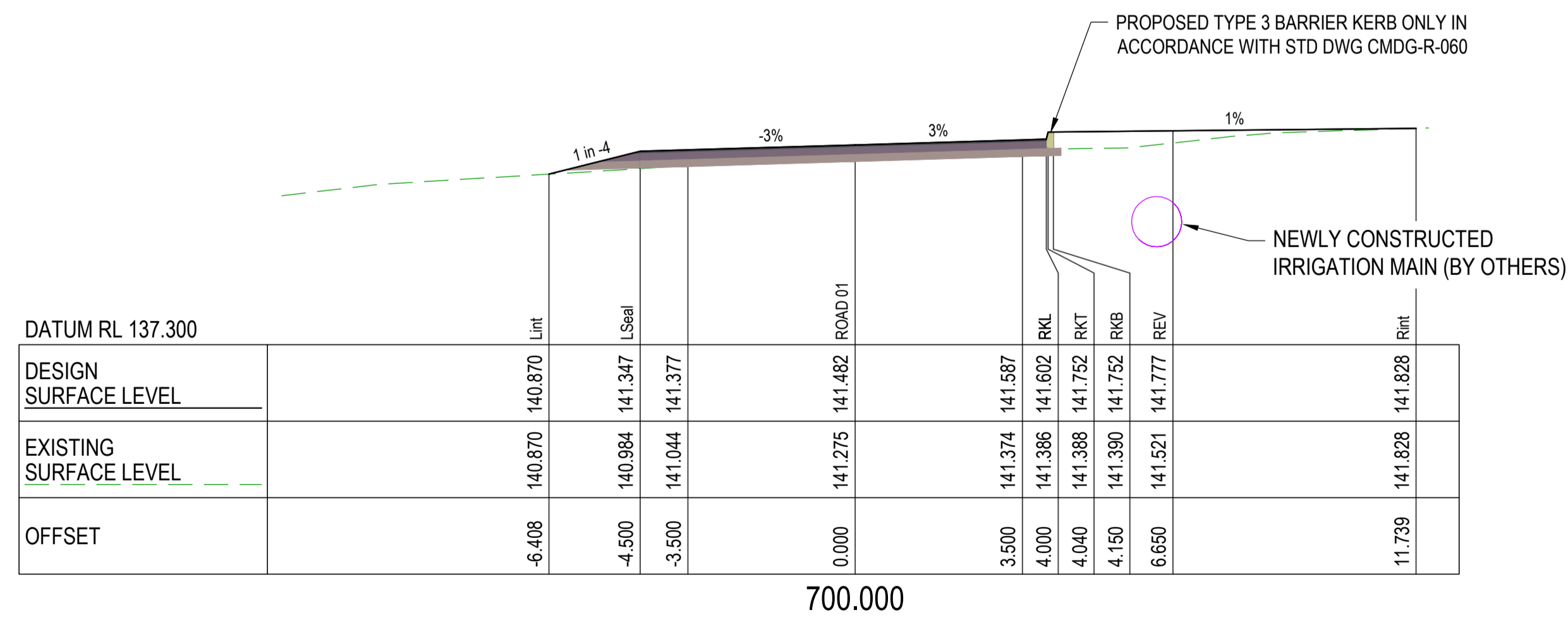
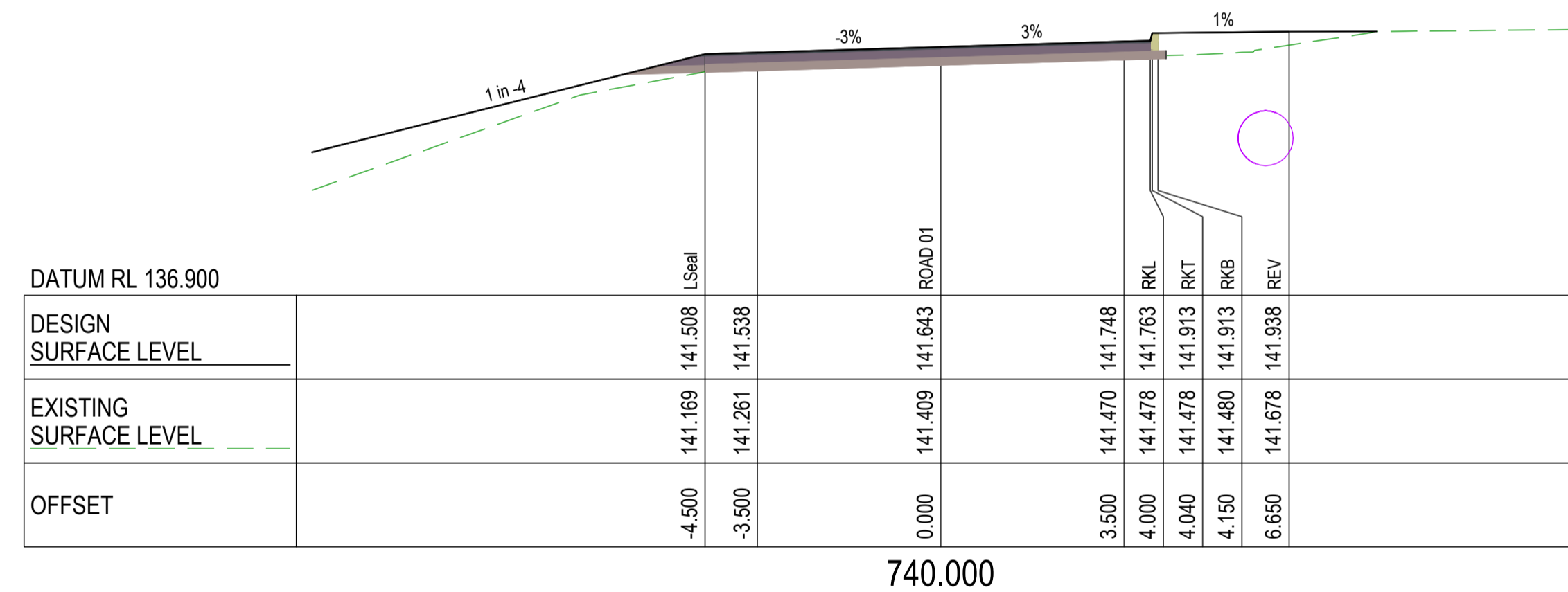
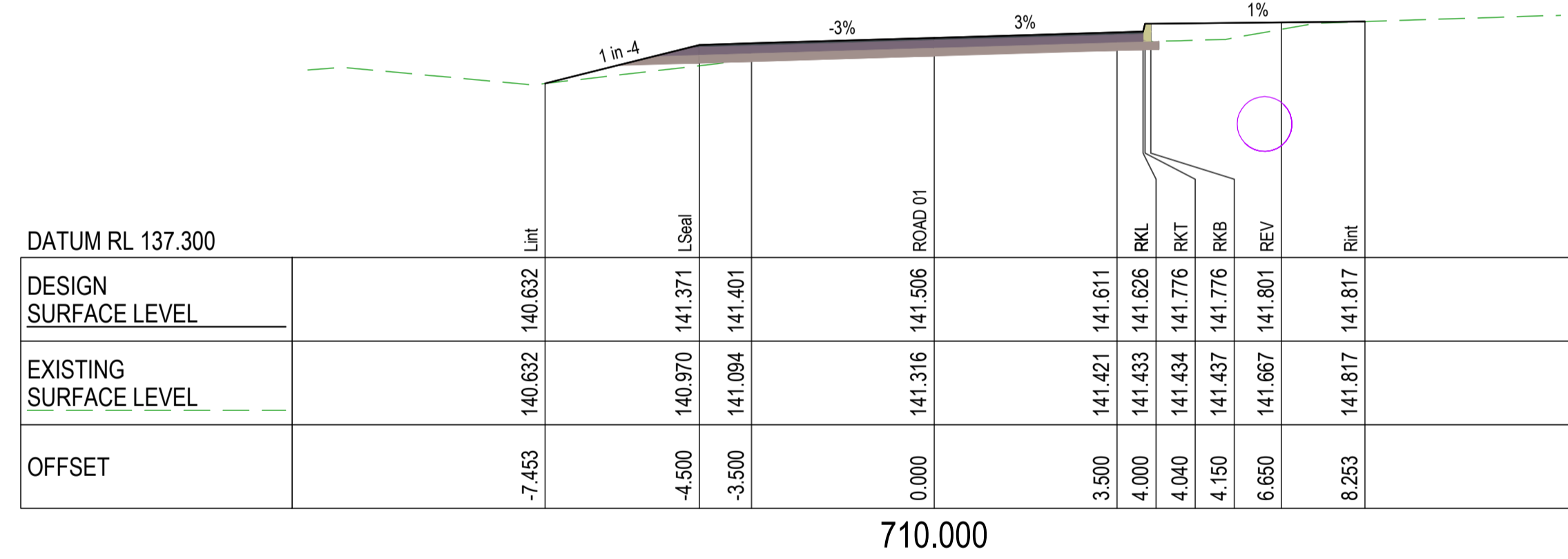
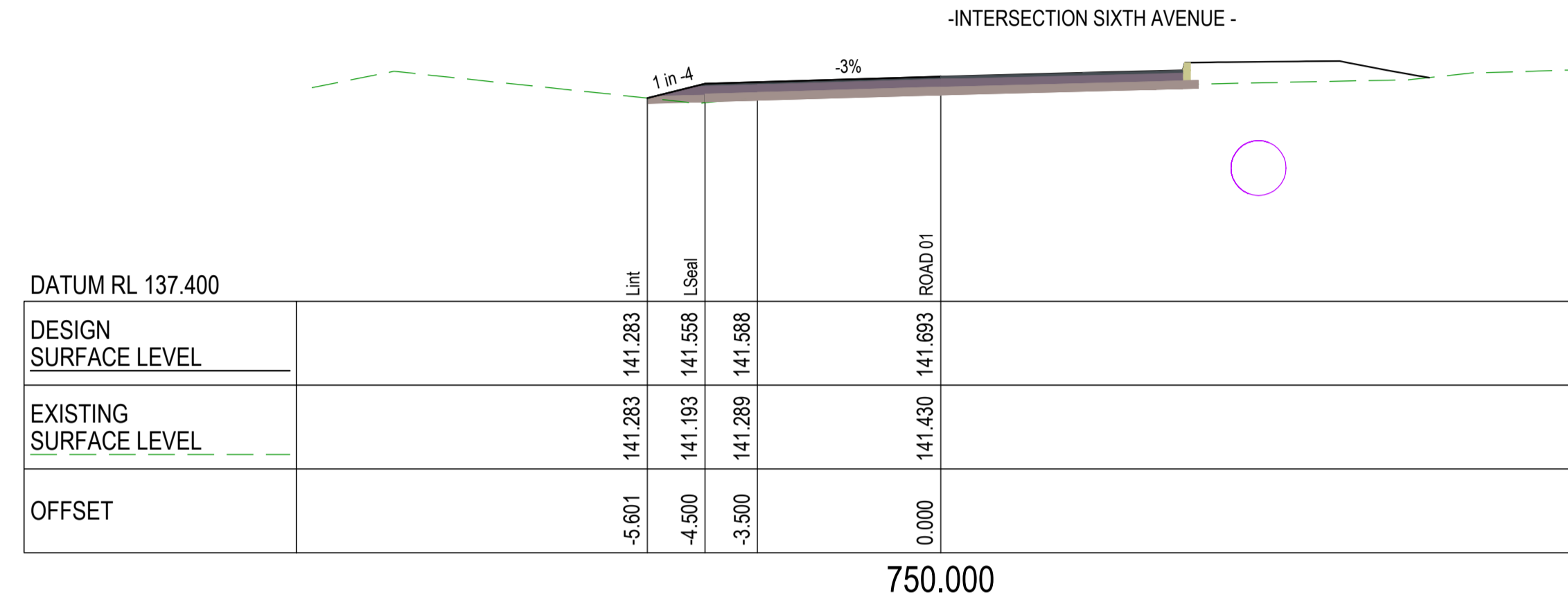
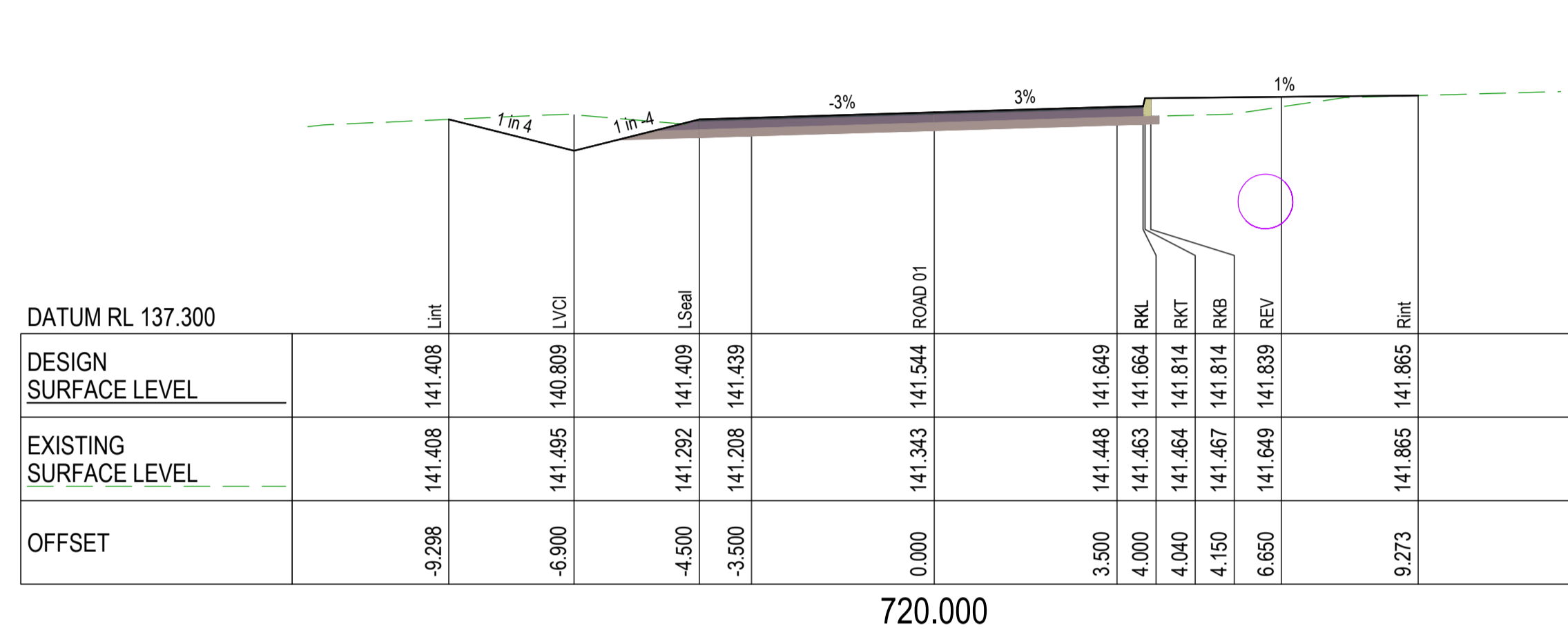


DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS

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e office@barlowshelley.com.au w www.barlowshelley.com.au
a PO Box 899 Maroochydore 4558 ABN 89 215 591 077

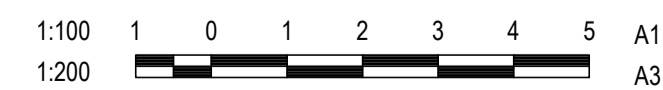
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS ROAD CROSS SECTIONS SHEET 10 OF 17			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-122	33 OF 85	1



CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS

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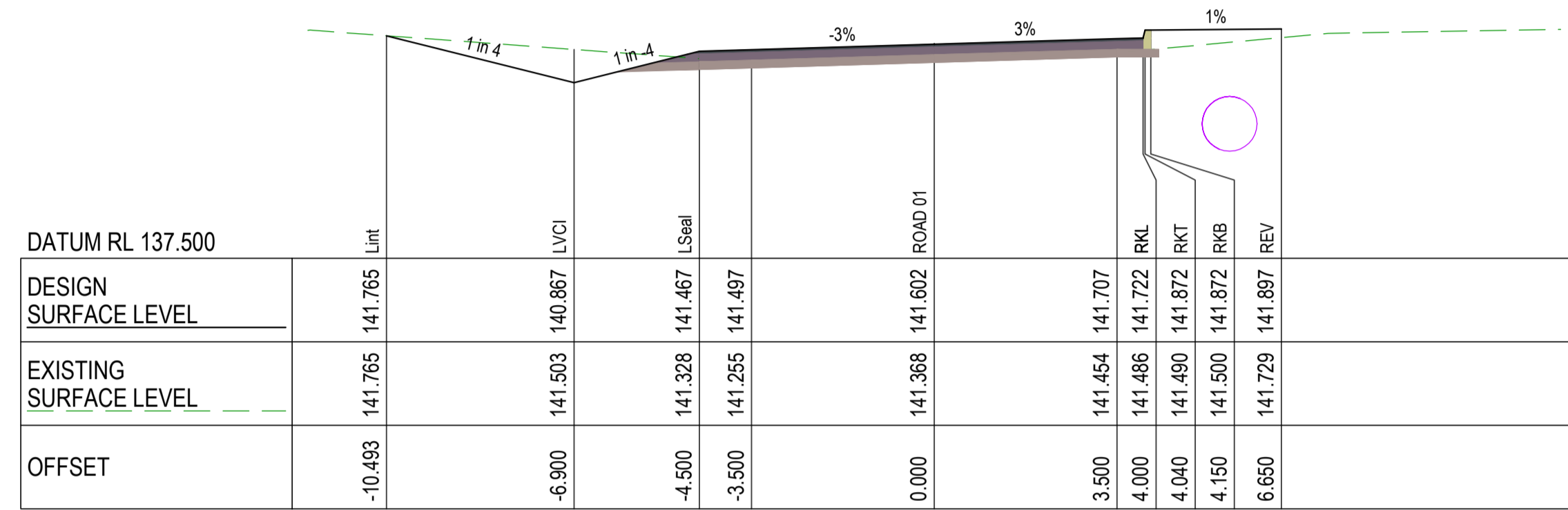
Banana SHIRE
SHIRE OF OPPORTUNITY

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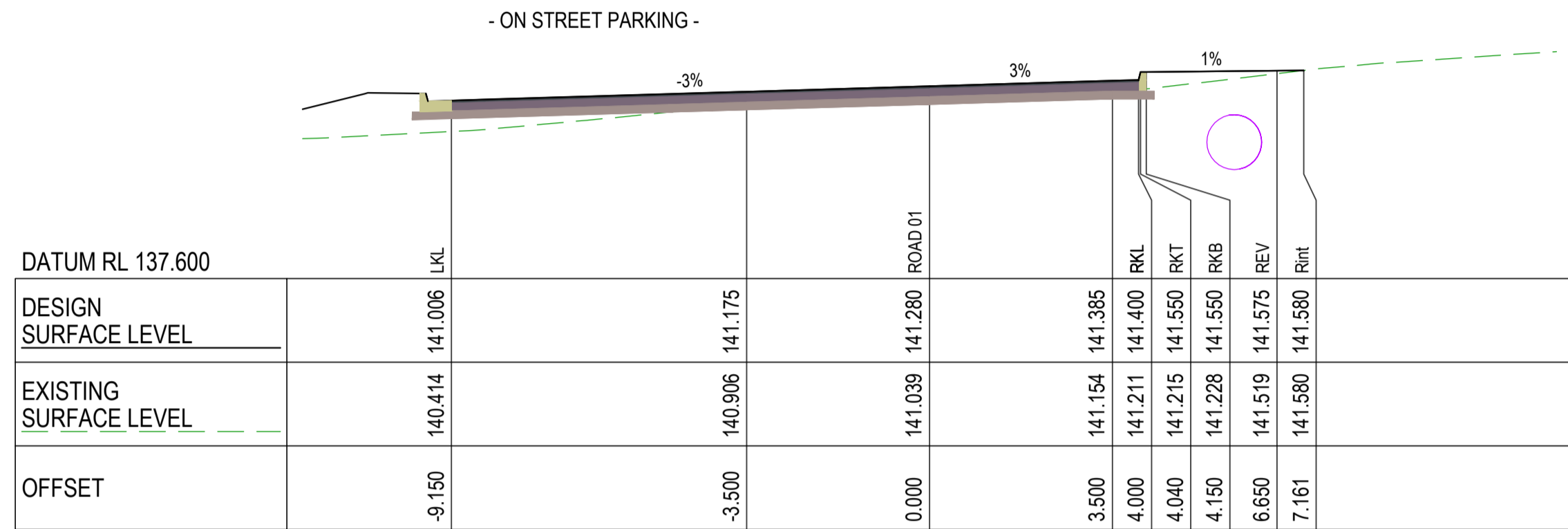
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 11 OF 17

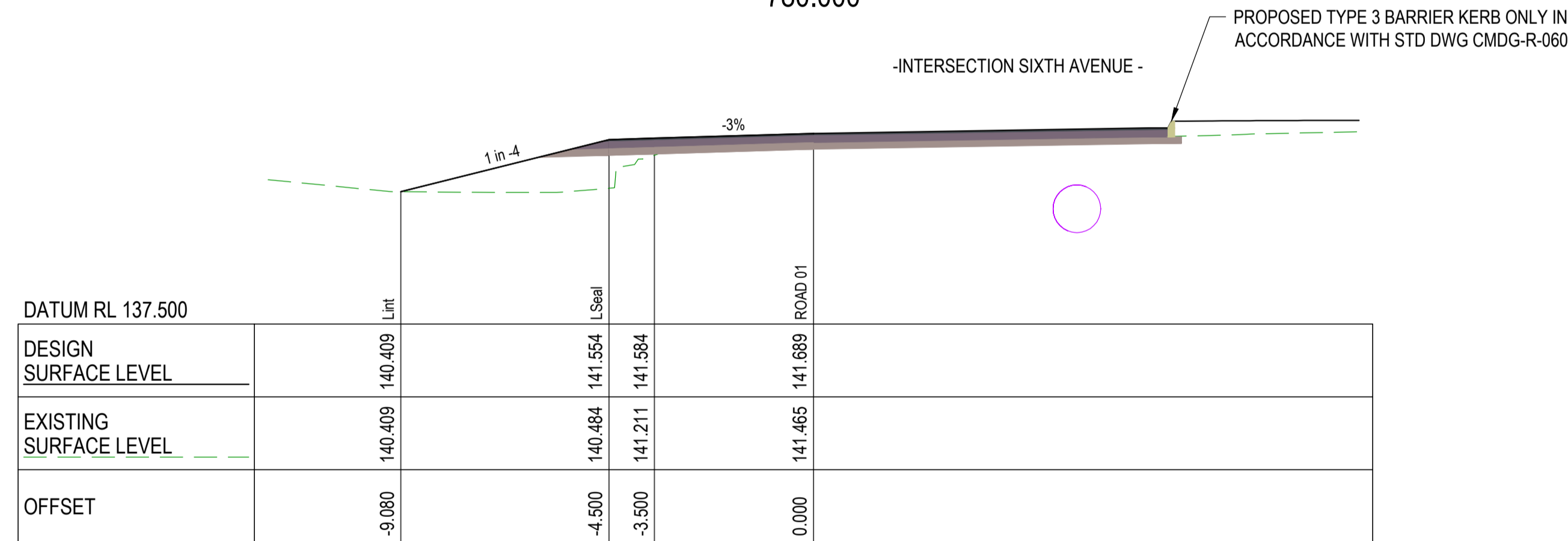
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AS SHOWN	2320-123	34 OF 85	1



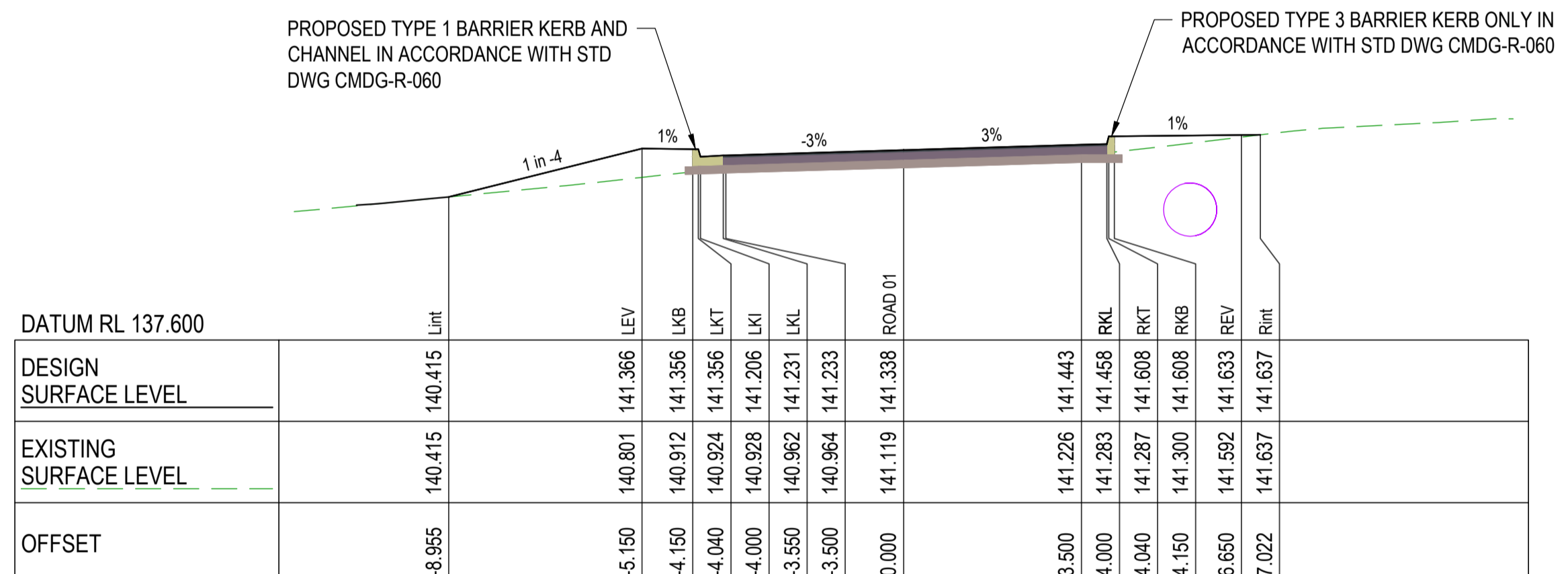
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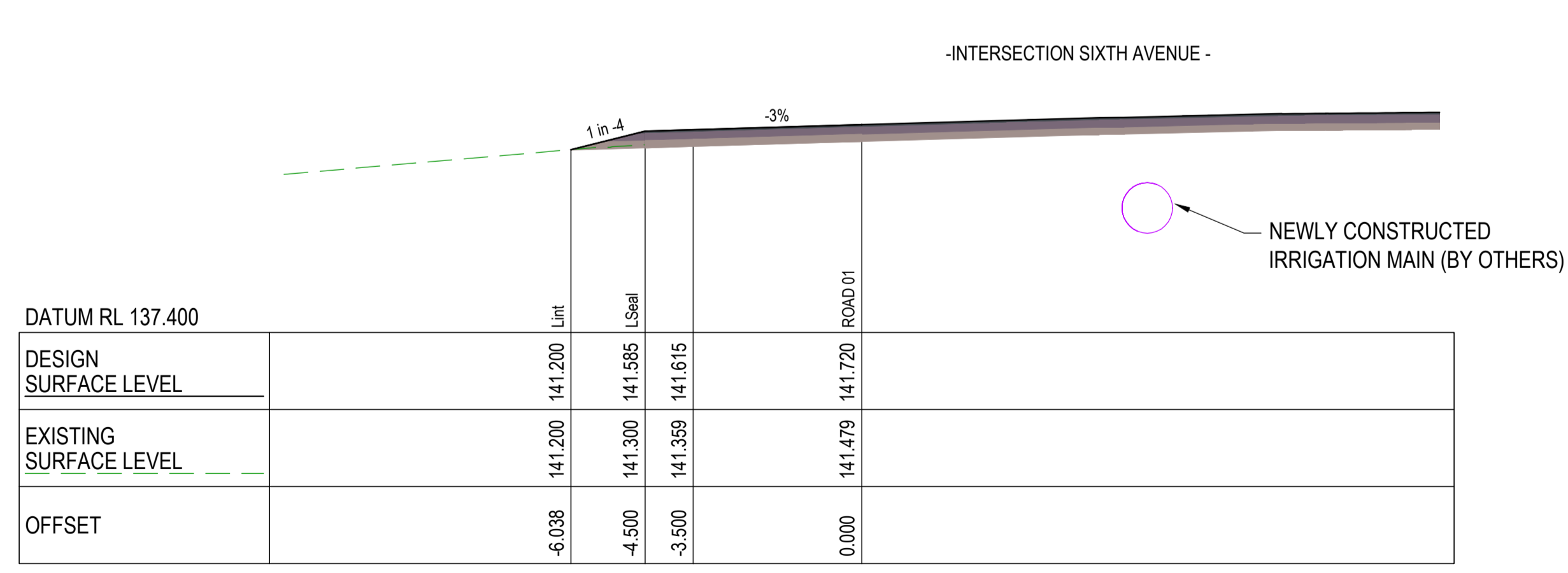
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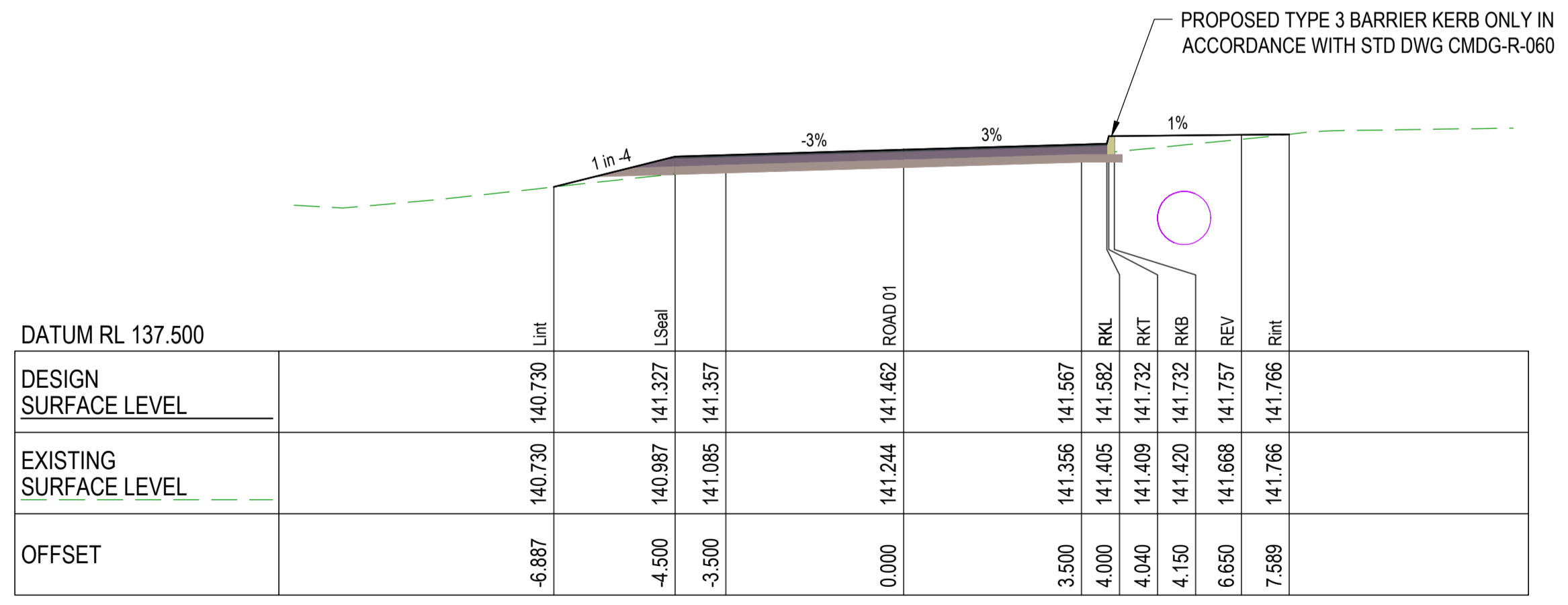
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800.000



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790.000

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



DESIGN CS
DRAWN CS
DESIGN CHECK SS

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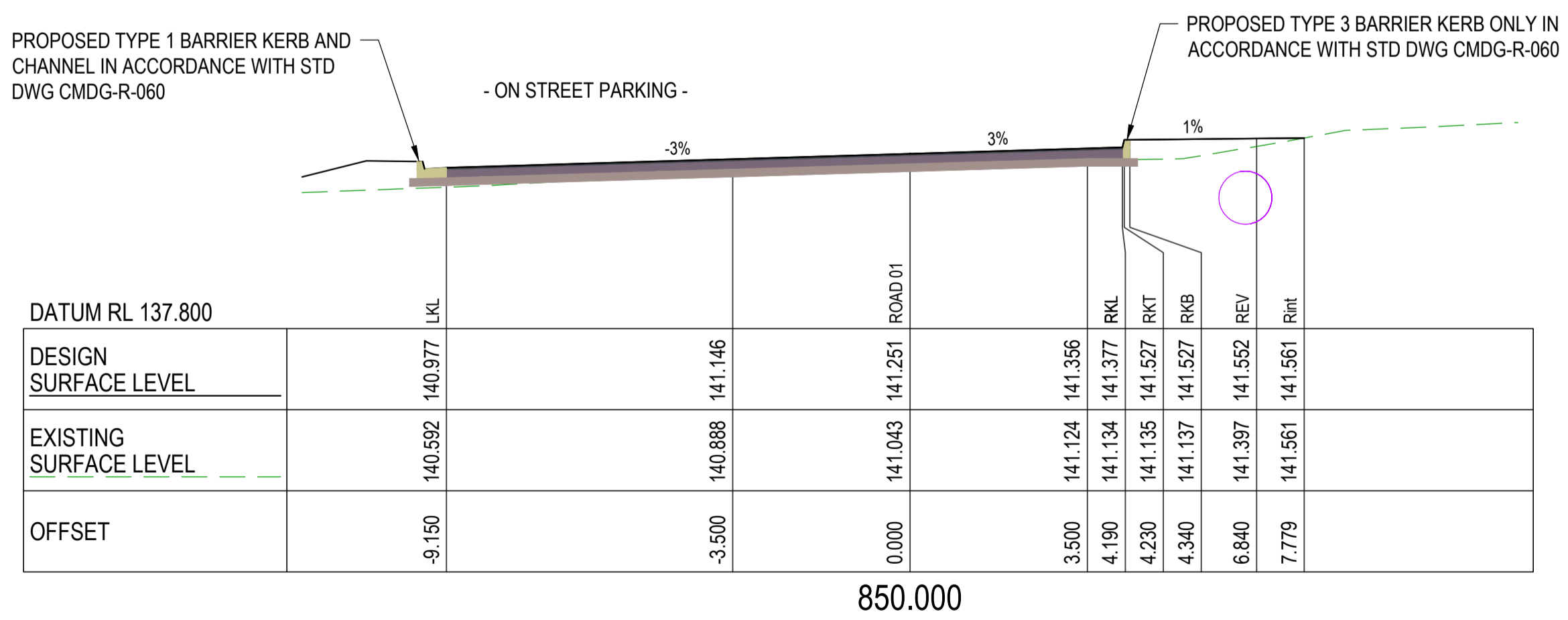
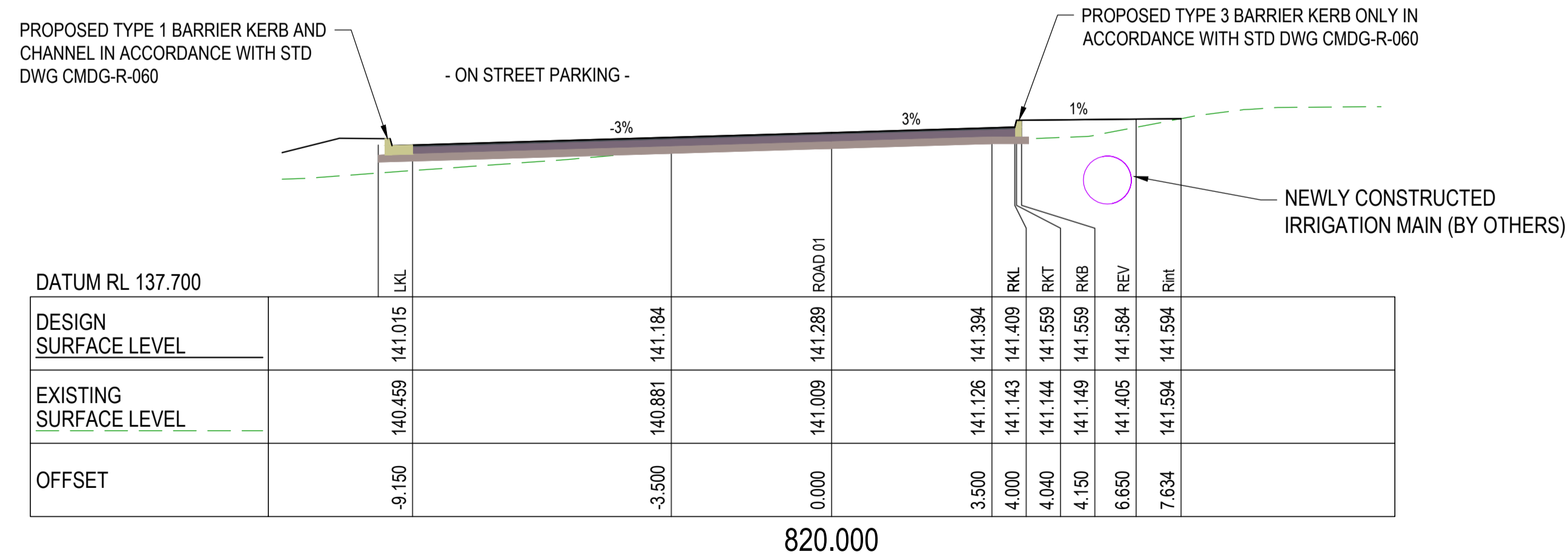
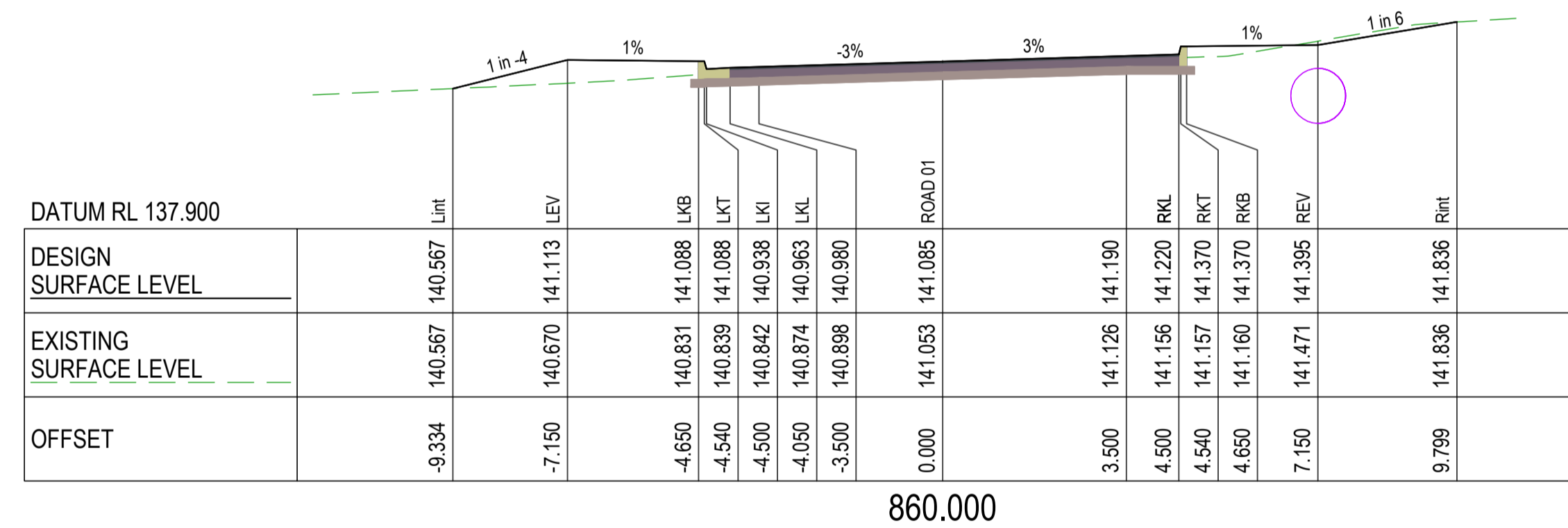
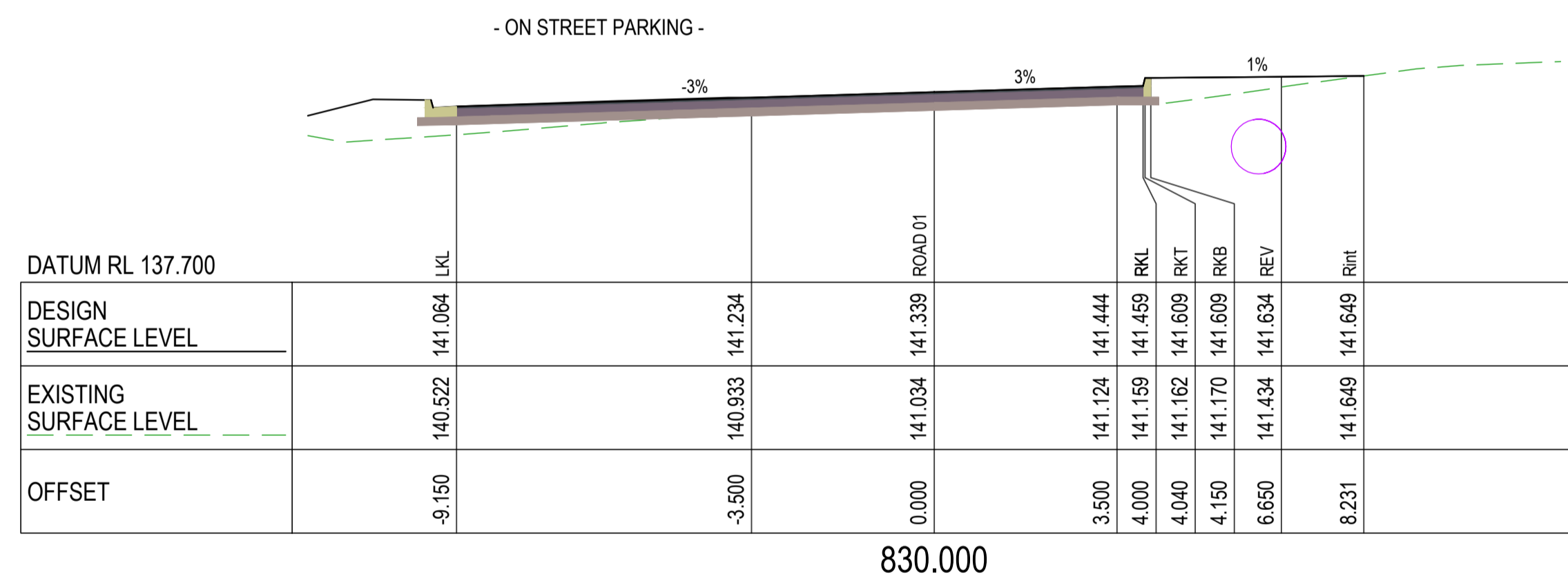
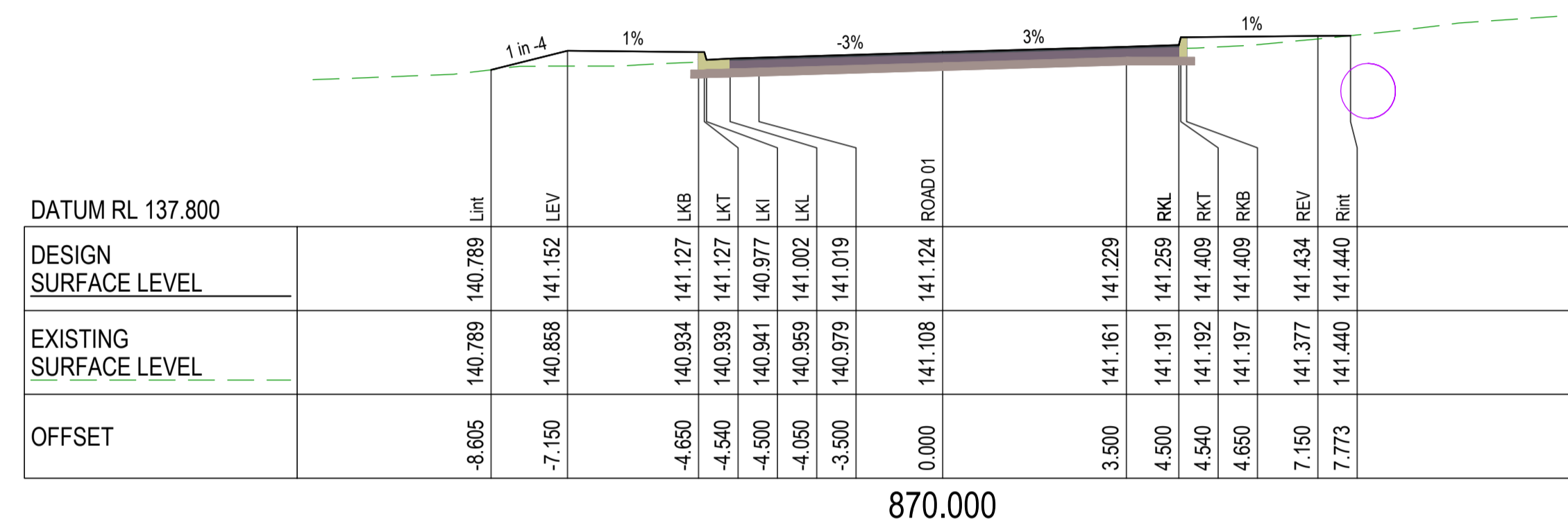
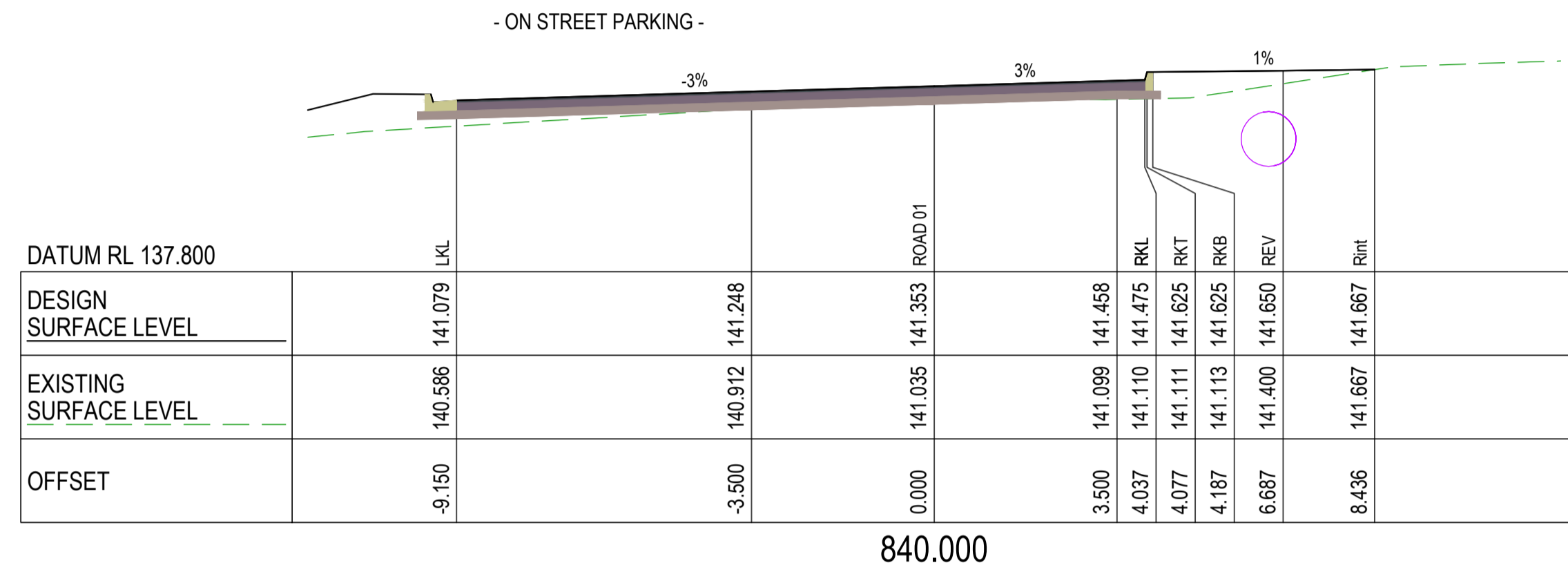


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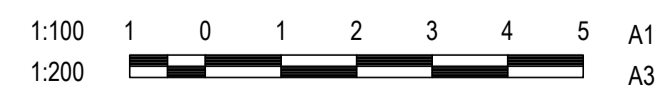
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 12 OF 17

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-124	35 OF 85	1



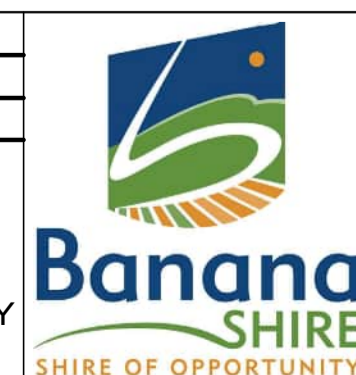
CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS PARTRIDGE DRIVE (WEST)



DESIGN CS
DRAWN CS
DESIGN CHECK SS

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Director: TONY SHELLEY
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 13 OF 17

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

-INTERSECTION WALLOON STREET -

DATUM RL 139.200		ELEVENTH AVE
DESIGN SURFACE LEVEL		141.226
EXISTING SURFACE LEVEL		141.097
OFFSET		0.000
30.000		

-INTERSECTION WALLOON STREET -

DATUM RL 138.600		ELEVENTH AVE
DESIGN SURFACE LEVEL		141.161
EXISTING SURFACE LEVEL		141.040
OFFSET		0.000
20.000		

PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060

DATUM RL 138.500		ELEVENTH AVE
DESIGN SURFACE LEVEL		141.111
EXISTING SURFACE LEVEL		141.078
OFFSET		0.000
10.000		

PROPOSED TYPE 2 MOUNTABLE KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060

DATUM RL 138.500		ELEVENTH AVE
DESIGN SURFACE LEVEL		141.061
EXISTING SURFACE LEVEL		141.061
OFFSET		0.000
0.000		

PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060

PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060

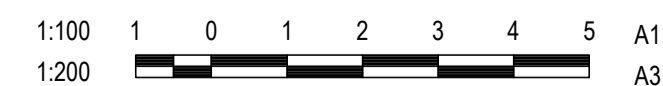
-INTERSECTION FIFTH AVENUE -

NEWLY CONSTRUCTED IRRIGATION MAIN (BY OTHERS)

DATUM RL 137.700	Lim	LEV	LKB	LKT	LKI	LKL	ROAD 01
DESIGN SURFACE LEVEL	140.460	141.426	141.401	141.401	141.251	141.272	141.293
EXISTING SURFACE LEVEL	140.460	141.077	141.258	141.261	141.262	141.274	141.297
OFFSET	-11.088	-7.224	-4.724	-4.614	-4.574	-4.204	-3.500
880.000							

CROSS SECTIONS PARTRIDGE DRIVE (WEST)

CROSS SECTIONS ELEVENTH AVENUE



DESIGN CS
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DESIGN CHECK SS

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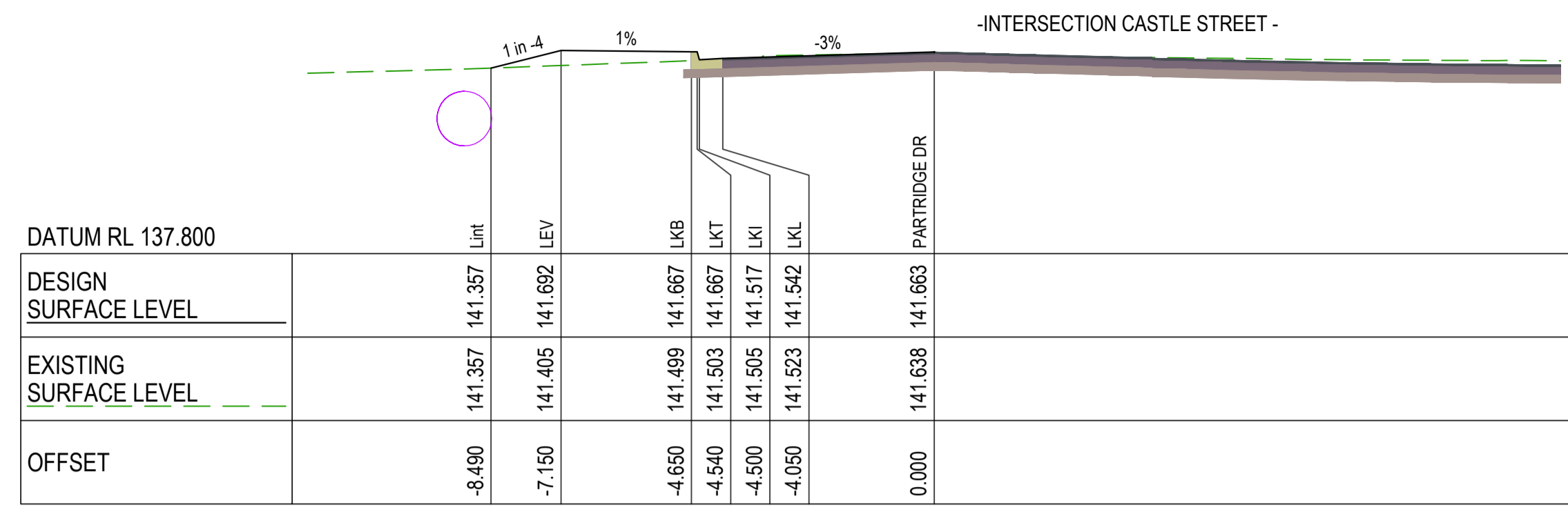
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 14 OF 17

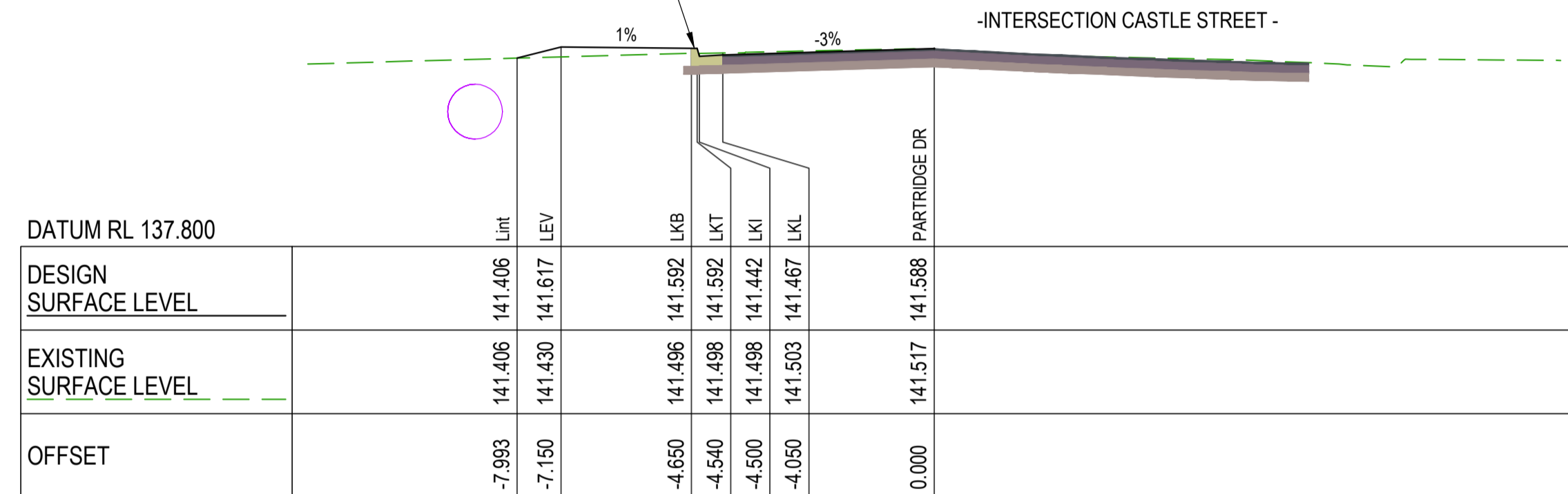
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-126	37 OF 85	1

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



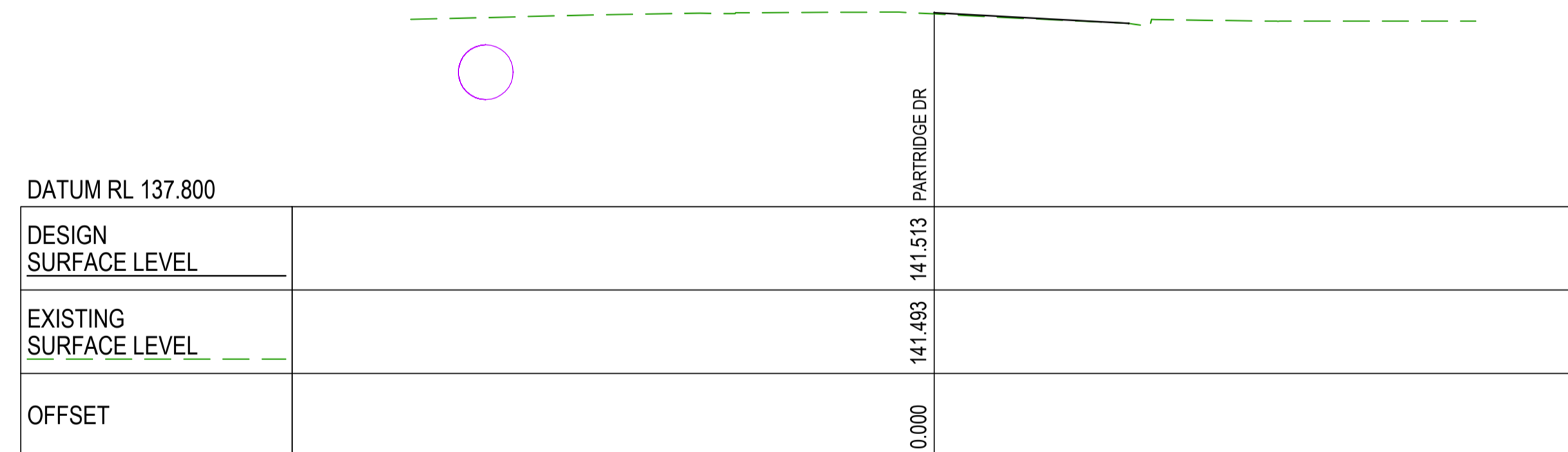
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PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060



20.000

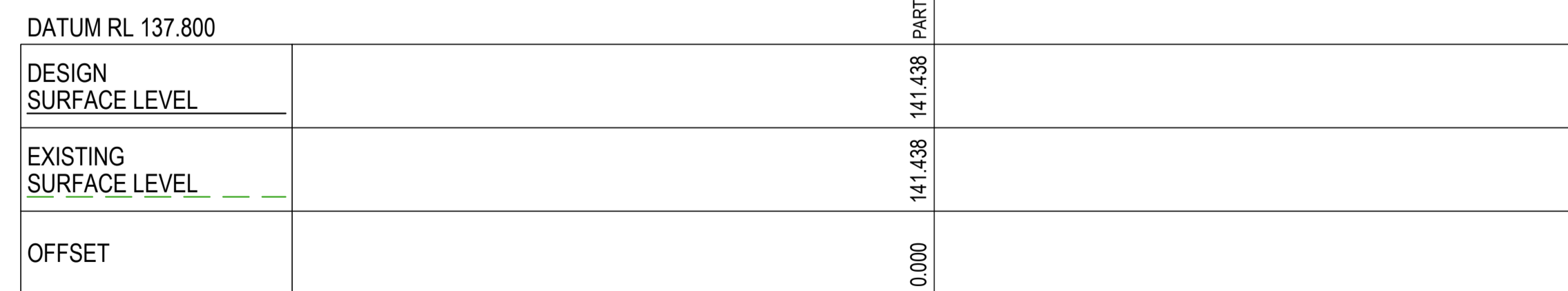
-EXISTING ROAD PROFILE -



10.000

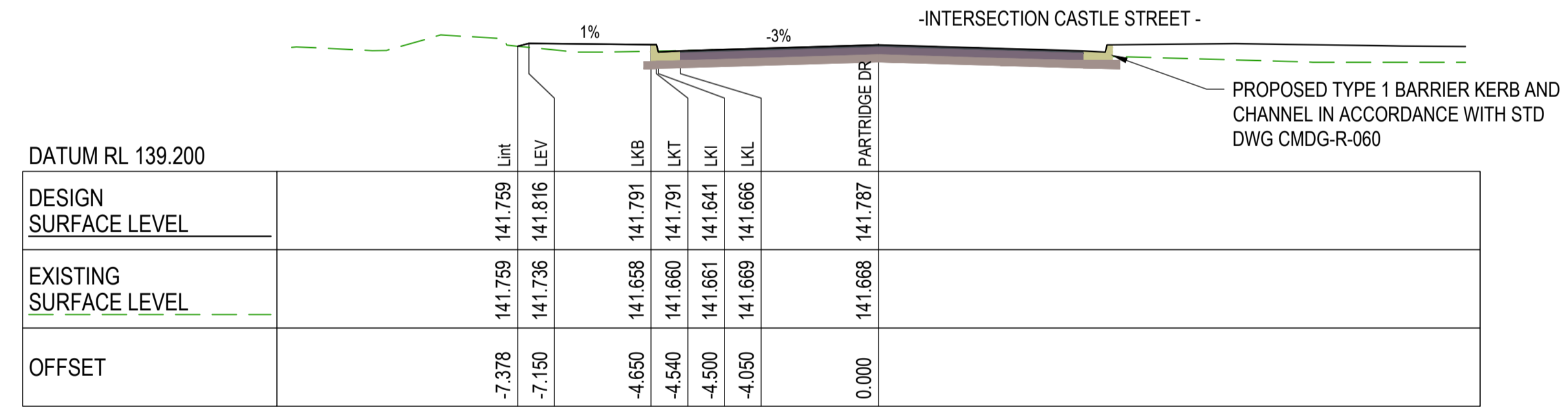
-EXISTING ROAD PROFILE -

NEWLY CONSTRUCTED IRRIGATION MAIN (BY OTHERS)



0.000

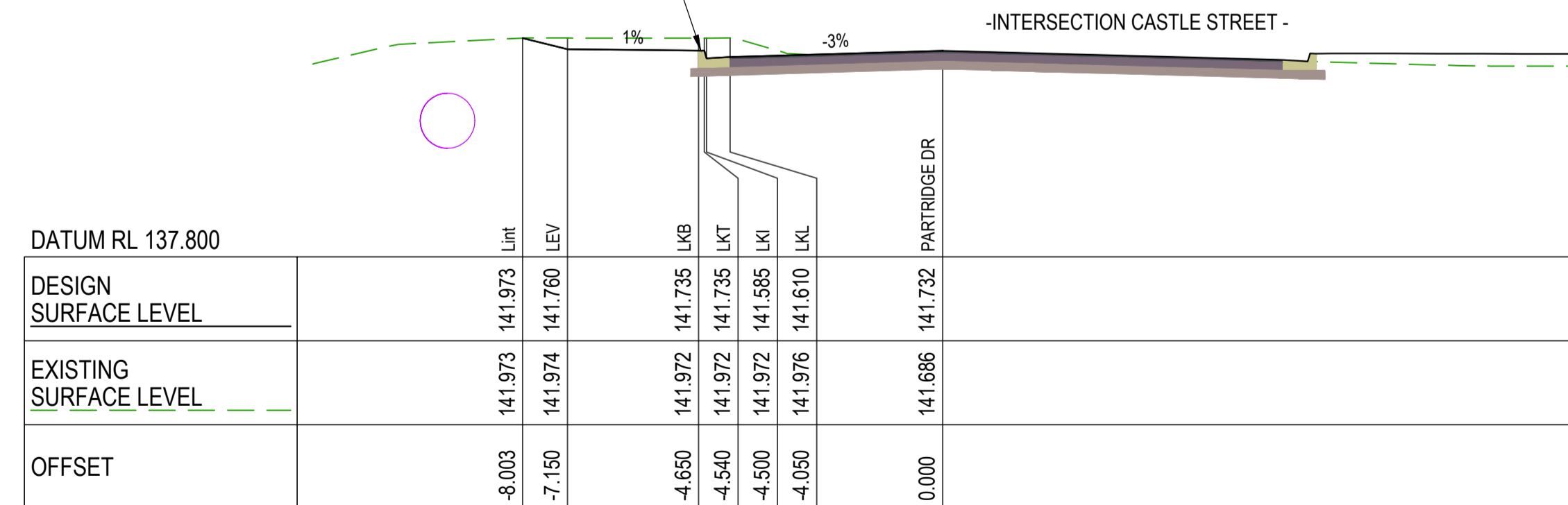
CROSS SECTIONS PARTRIDGE DRIVE (EAST)



50.000

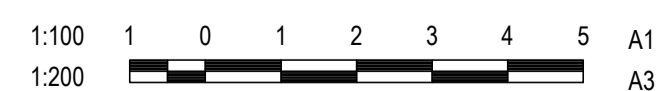
PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060

PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060



40.000

CROSS SECTIONS PARTRIDGE DRIVE (EAST)



DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS

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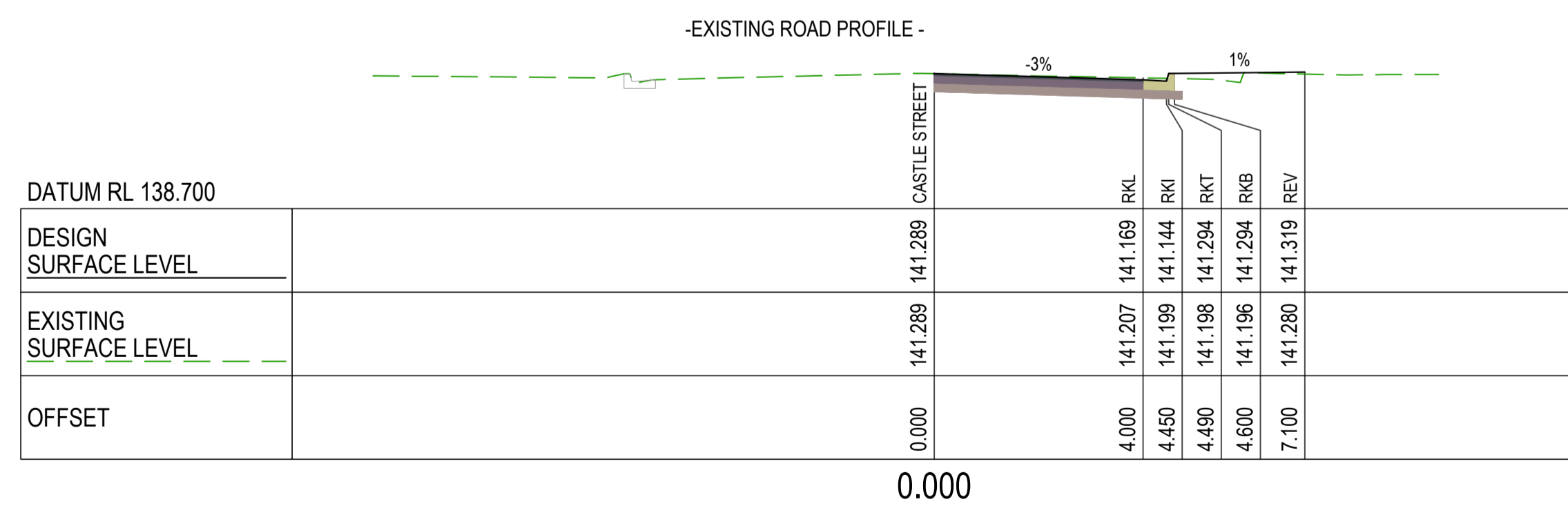
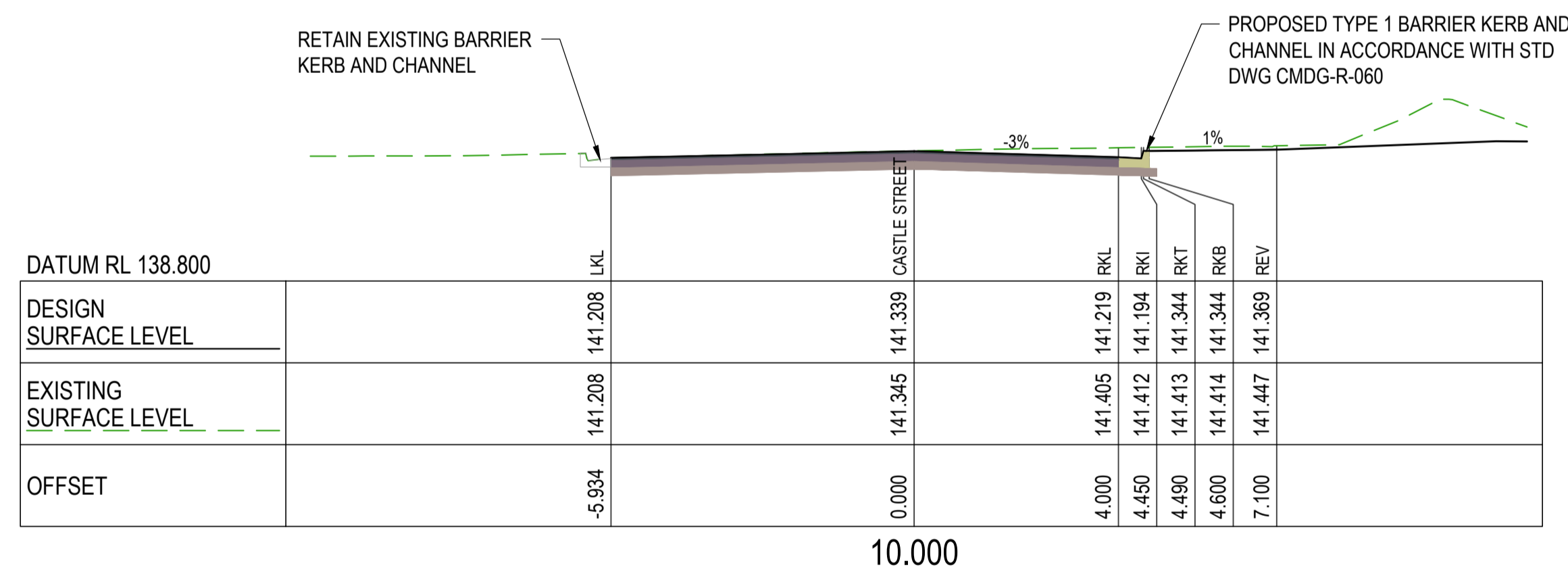
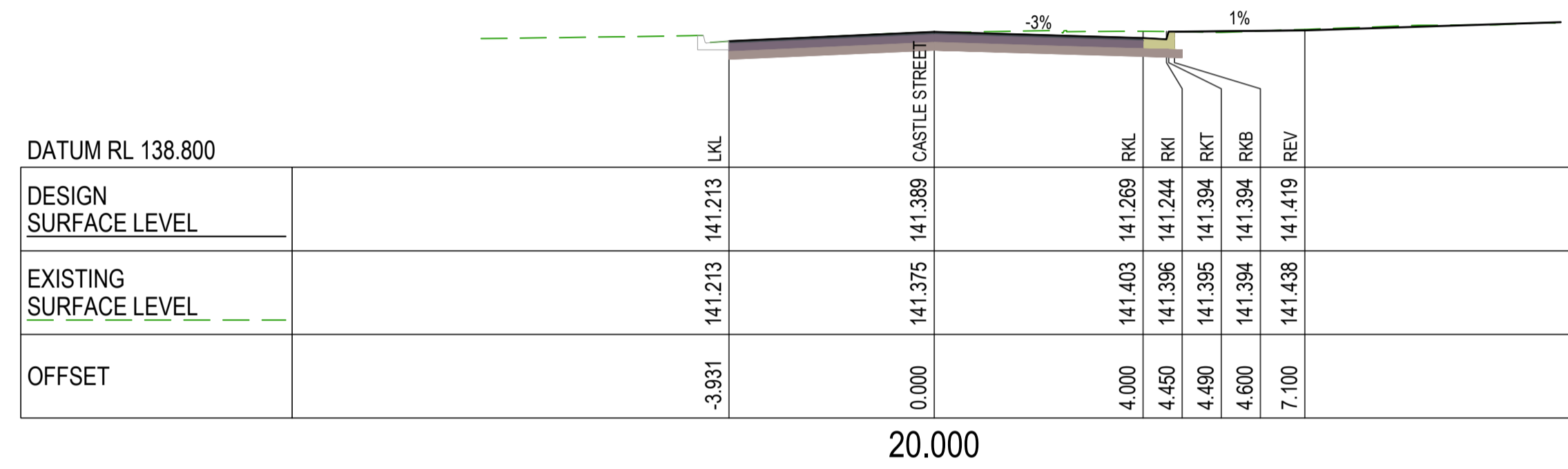
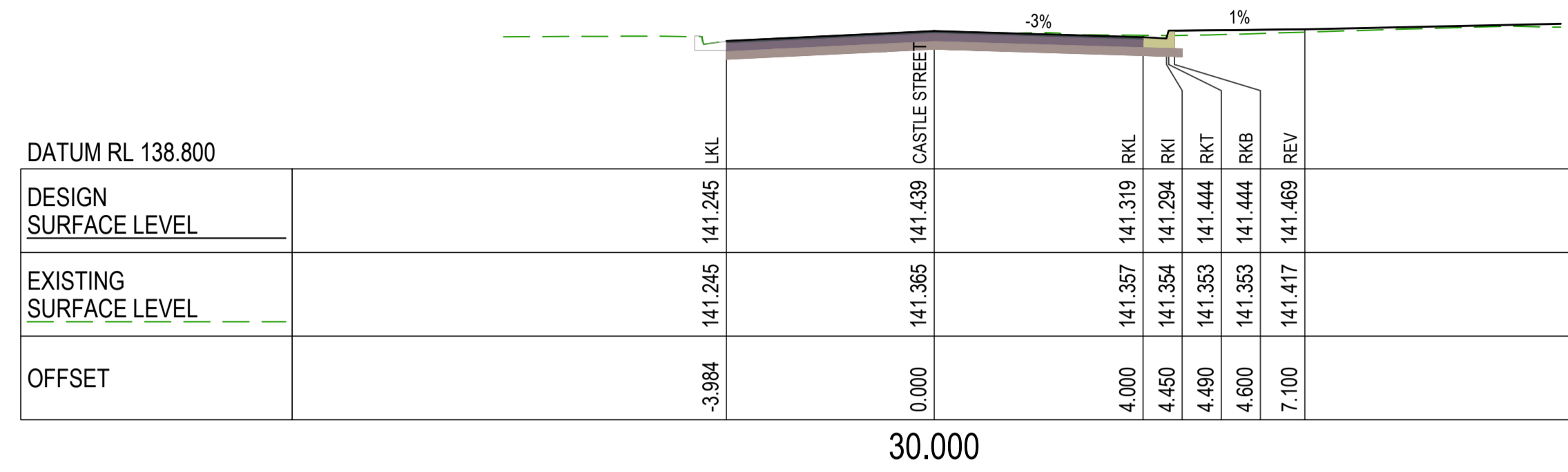
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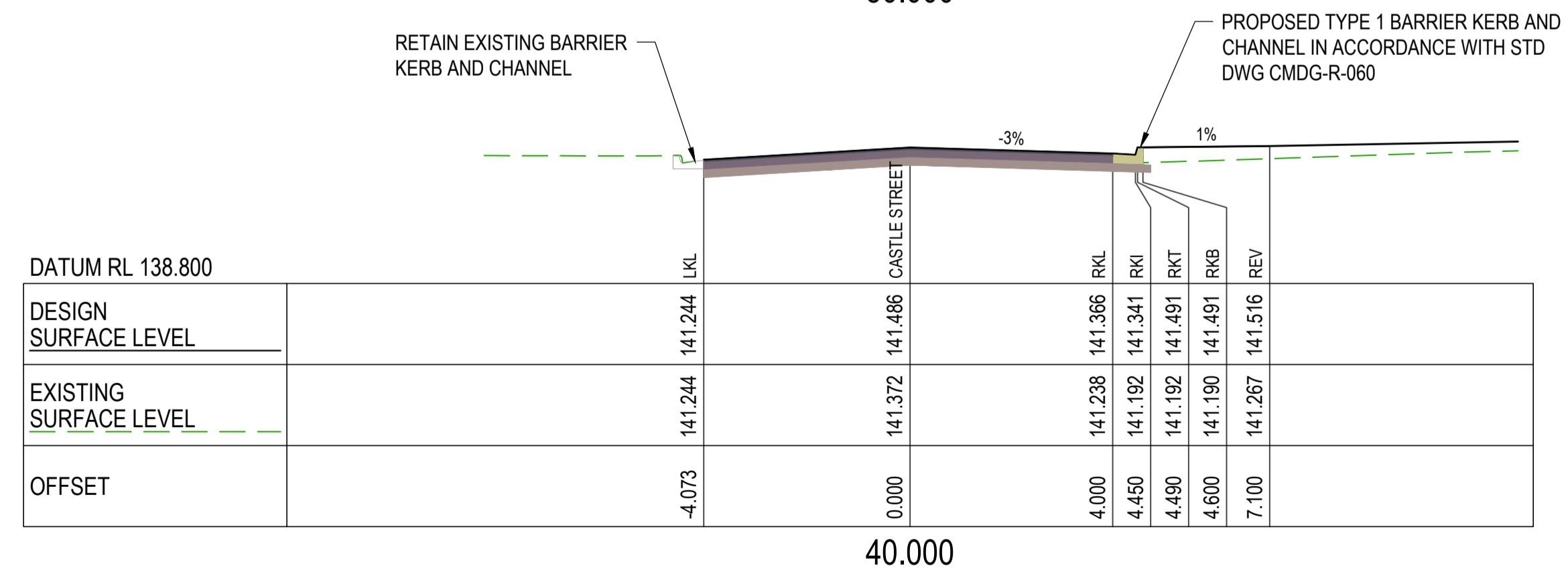
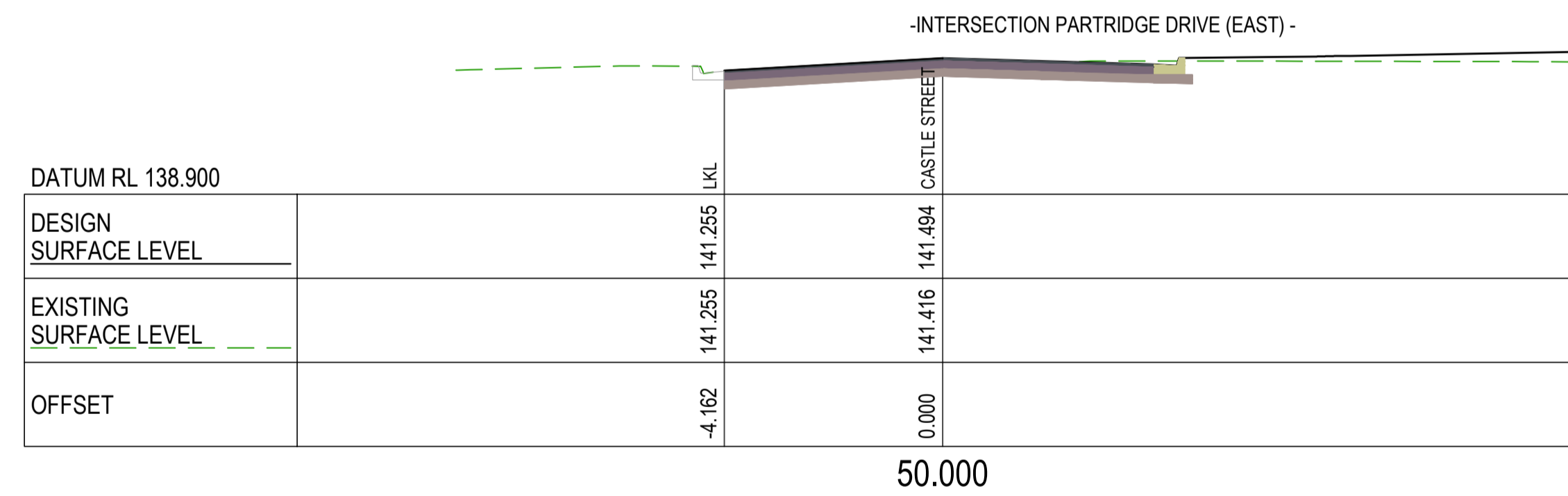
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 15 OF 17

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-127	38 OF 85	1

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

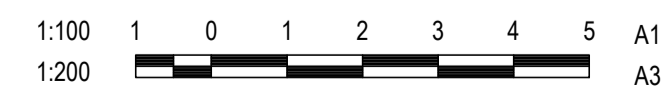


CROSS SECTIONS CASTLE STREET



CROSS SECTIONS CASTLE STREET

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS

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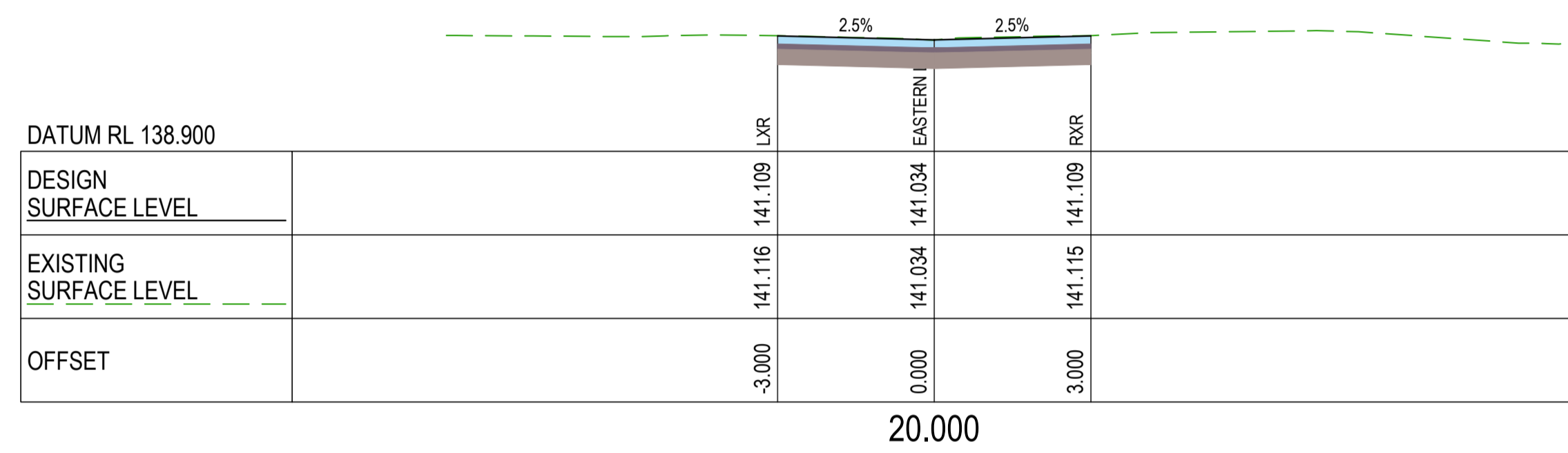
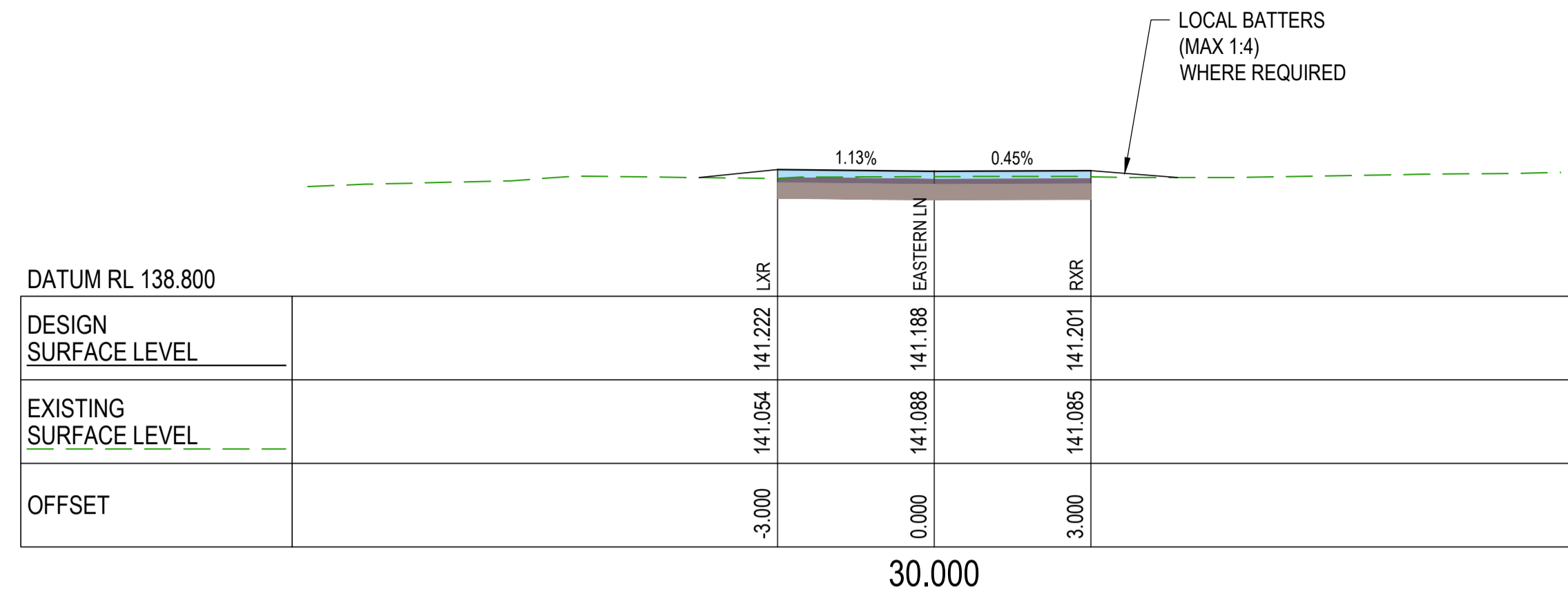
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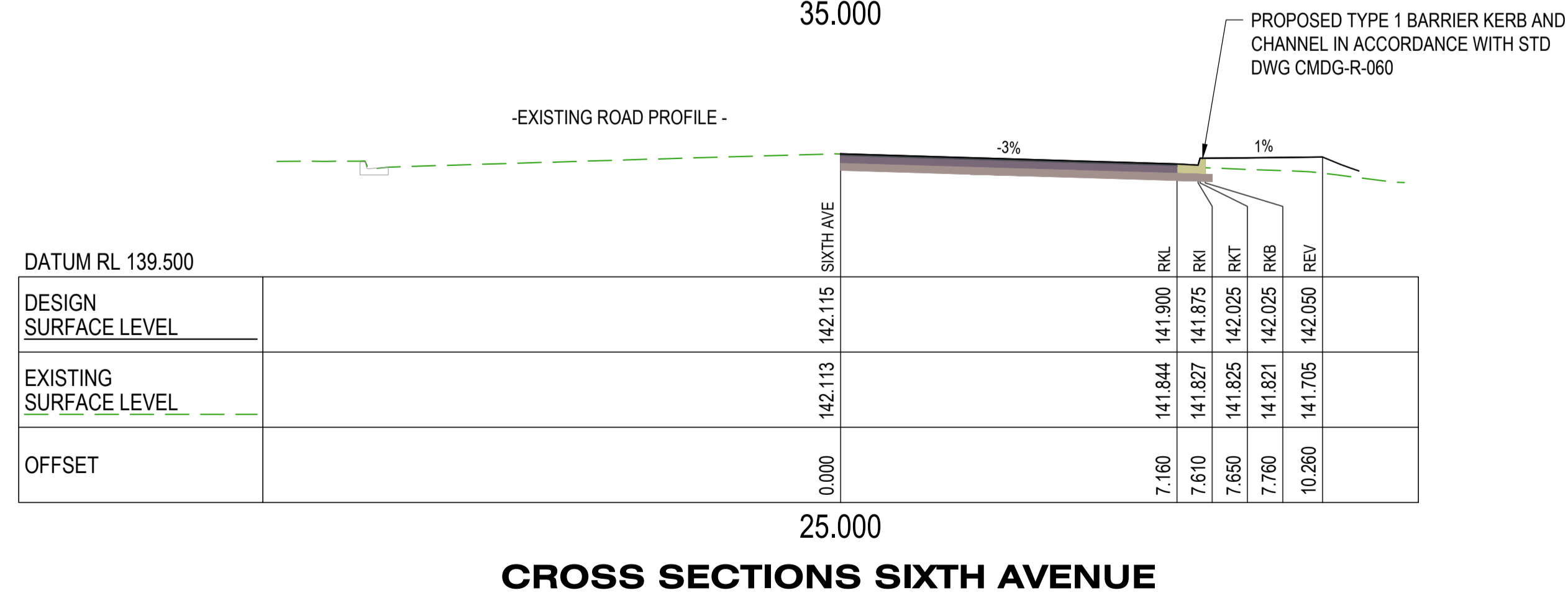
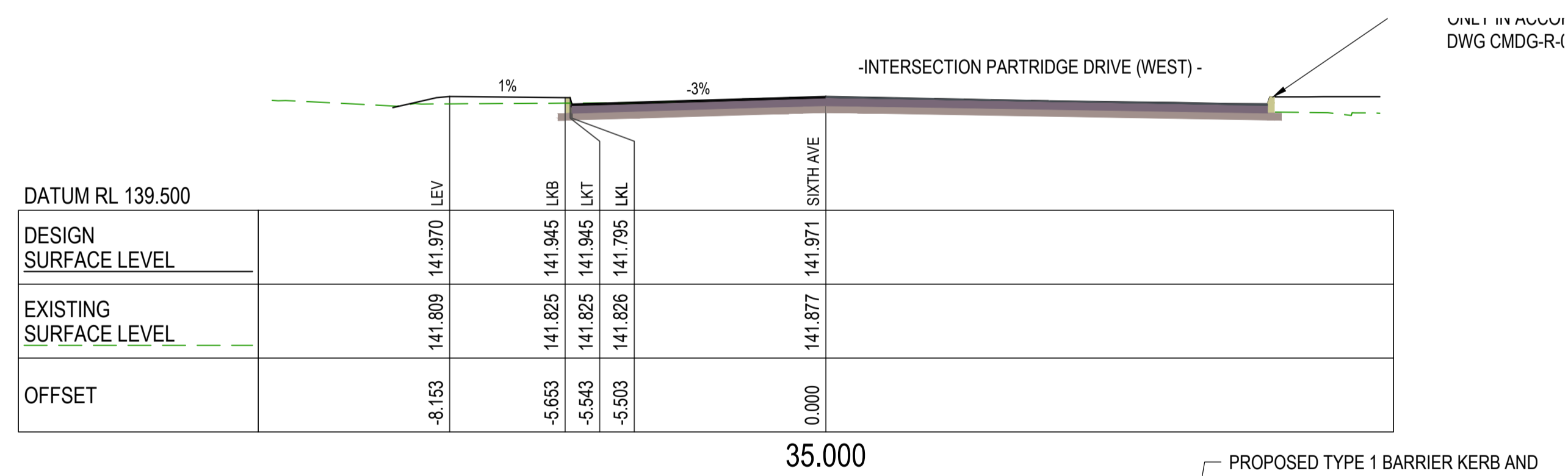
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 ROAD CROSS SECTIONS SHEET 16 OF 17

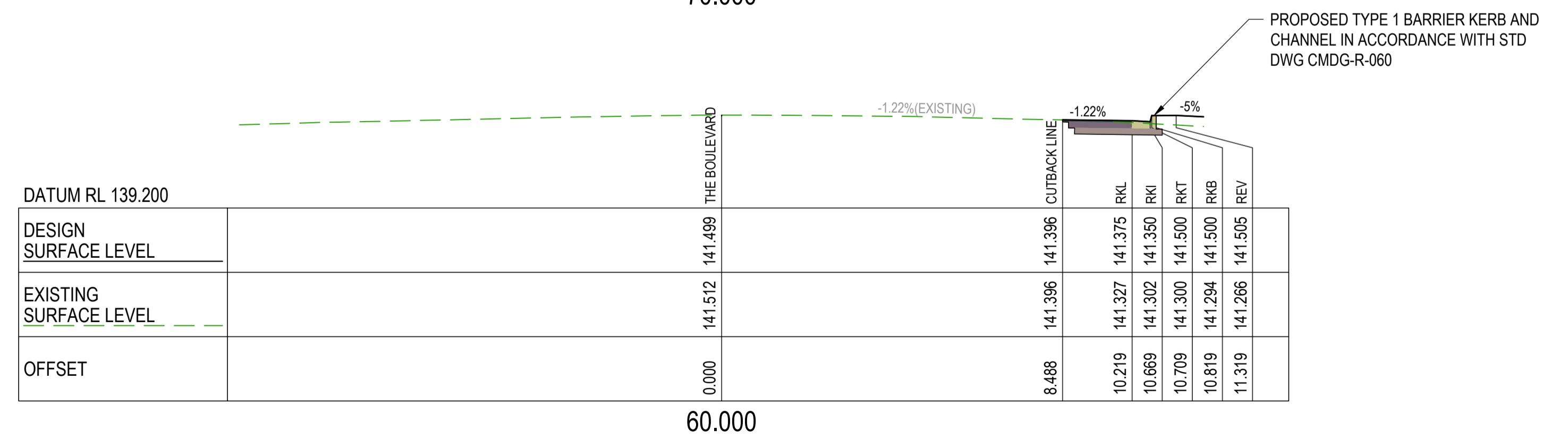
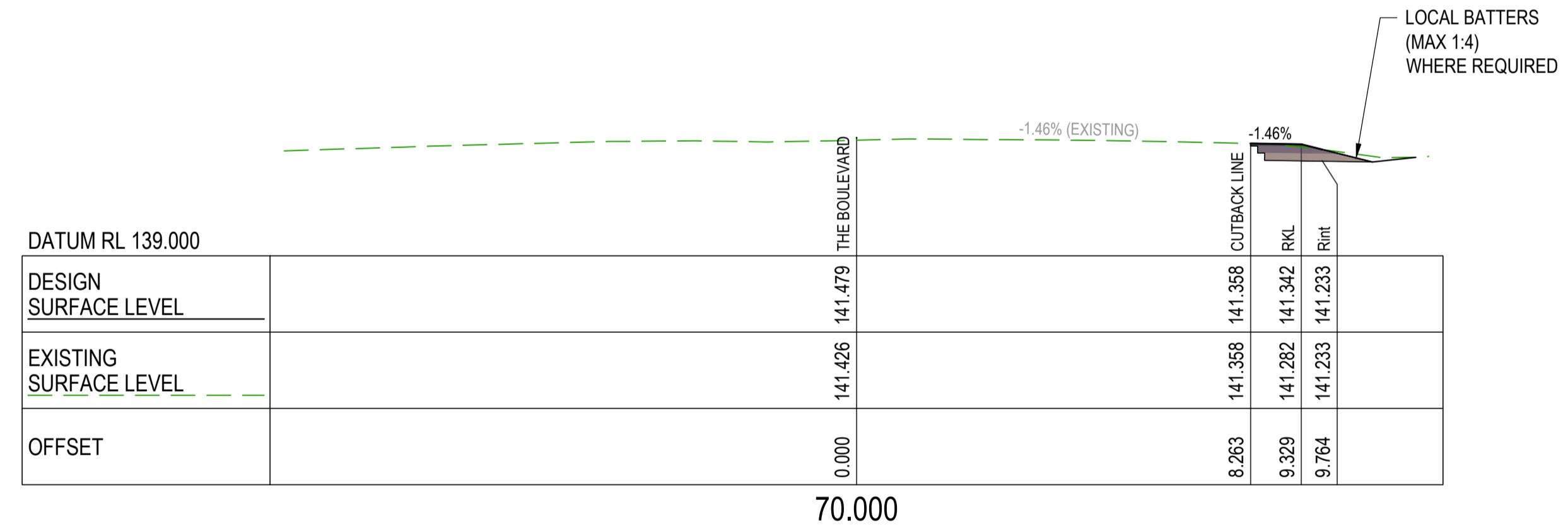
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-128	39 OF 85	1



CROSS SECTIONS EASTERN LANE

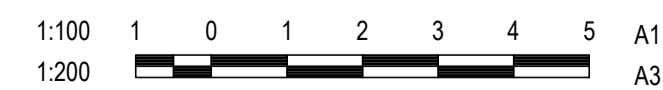


CROSS SECTIONS SIXTH AVENUE



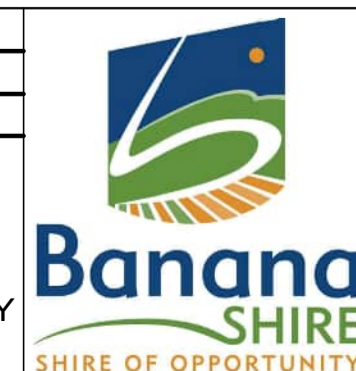
CROSS SECTIONS THE BOULEVARD

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



DESIGN CS
DRAWN CS
DESIGN CHECK SS

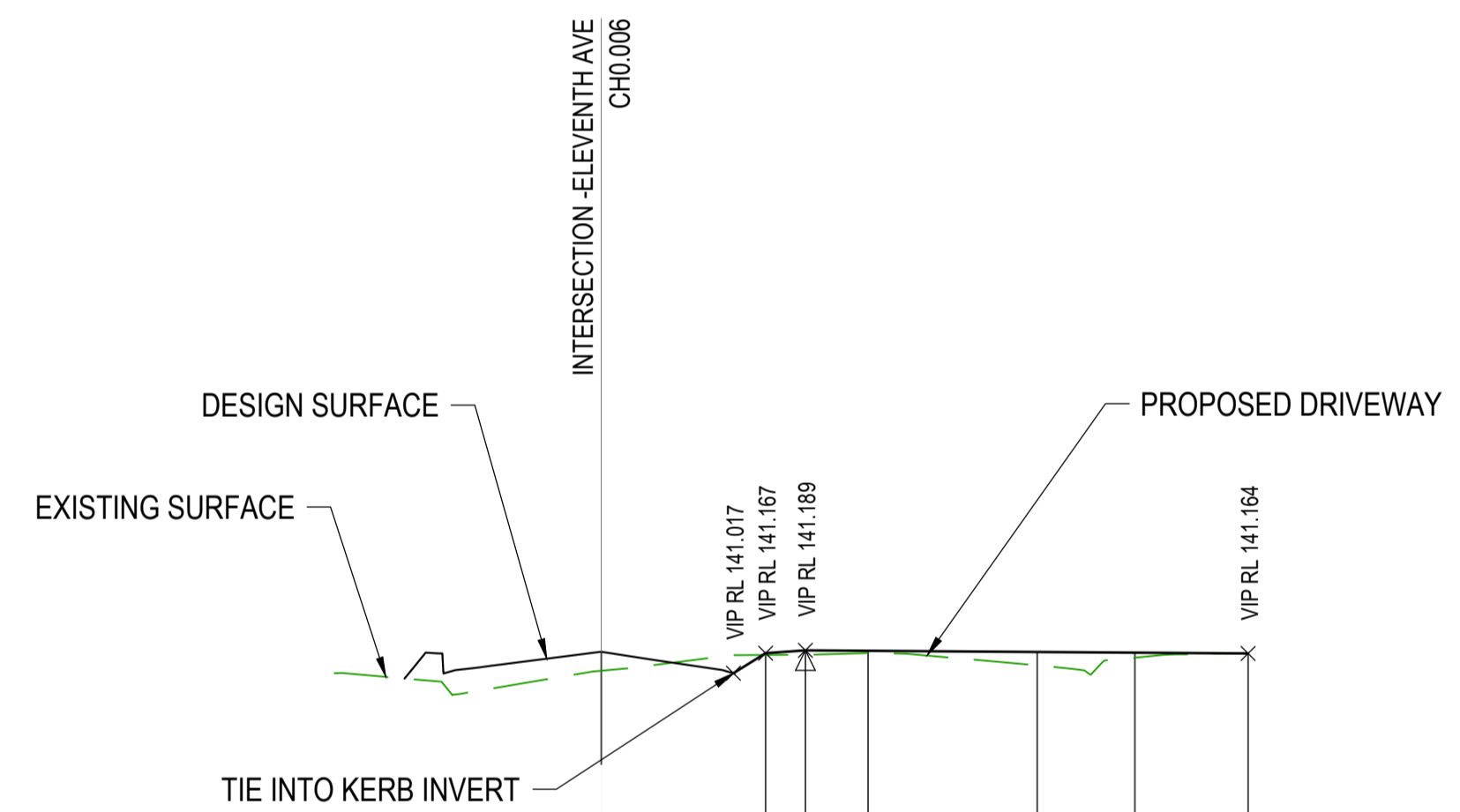
Tony Shelley
Director: TONY SHELLEY
(RPEQ 7736)



WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROAD CROSS SECTIONS SHEET 17 OF 17

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-129	40 OF 85	1

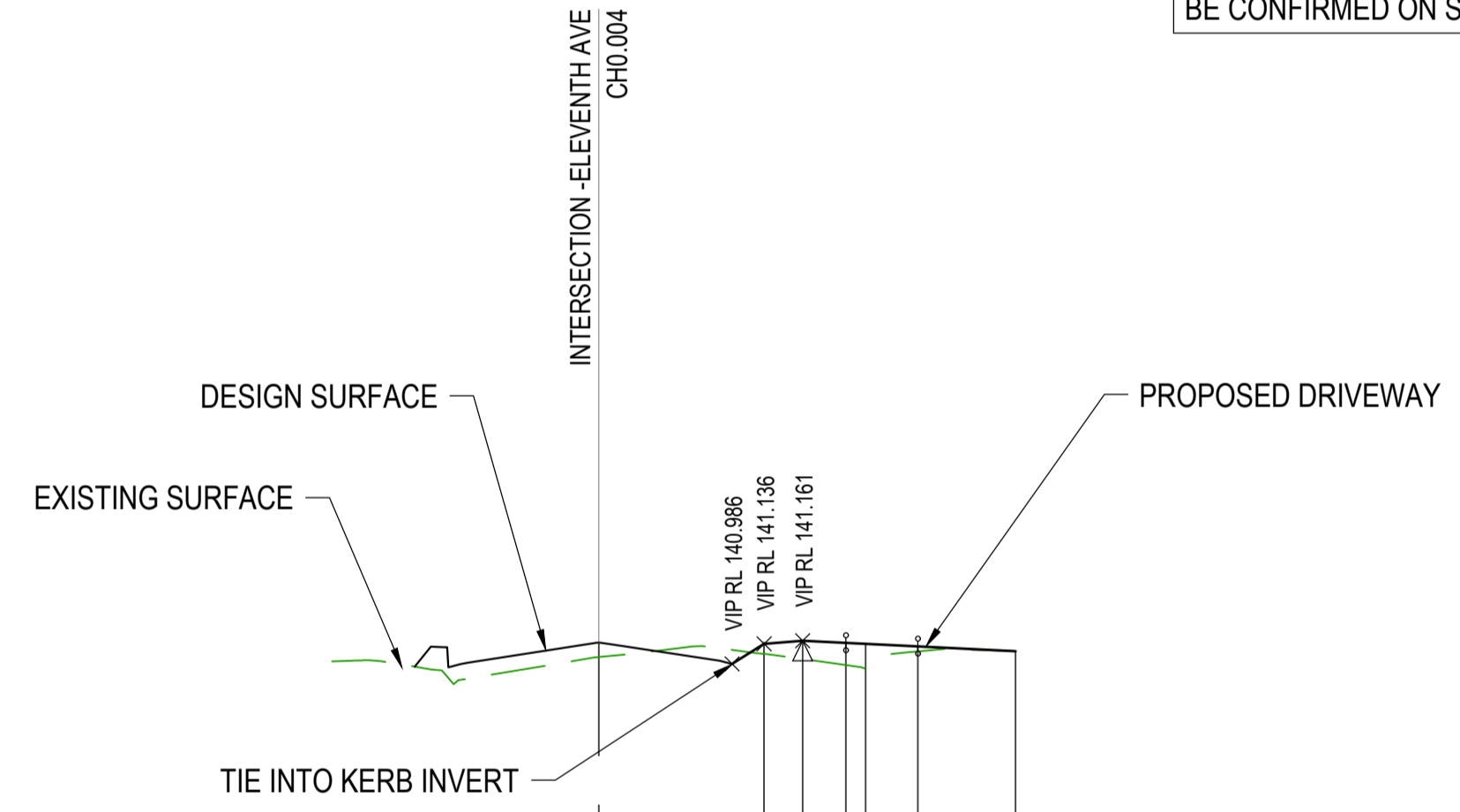
PROPOSED DRIVEWAY LOCATION:
 PROVIDE 1 (ONE) NEW DRIVEWAY CROSSOVER TO NEW SHED ACCESS (NEWLY CONSTRUCTED BUILDING, NOT SURVEYED). EXACT LOCATION, GRADING AND LEVELS TO BE CONFIRMED ON SITE.



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 136.600

CUT / FILL DEPTH			0.014	0.033	0.019	0.100	0.038	-0.000
DESIGN SURFACE LEVEL		141.167	141.189	141.185	141.176	141.171	141.164	
NATURAL SURFACE LEVEL	141.034	141.153	141.156	141.166	141.076	141.132	141.164	
CHAINAGE	0.000	6.159	7.654	10.000	16.337	20.000	24.250	

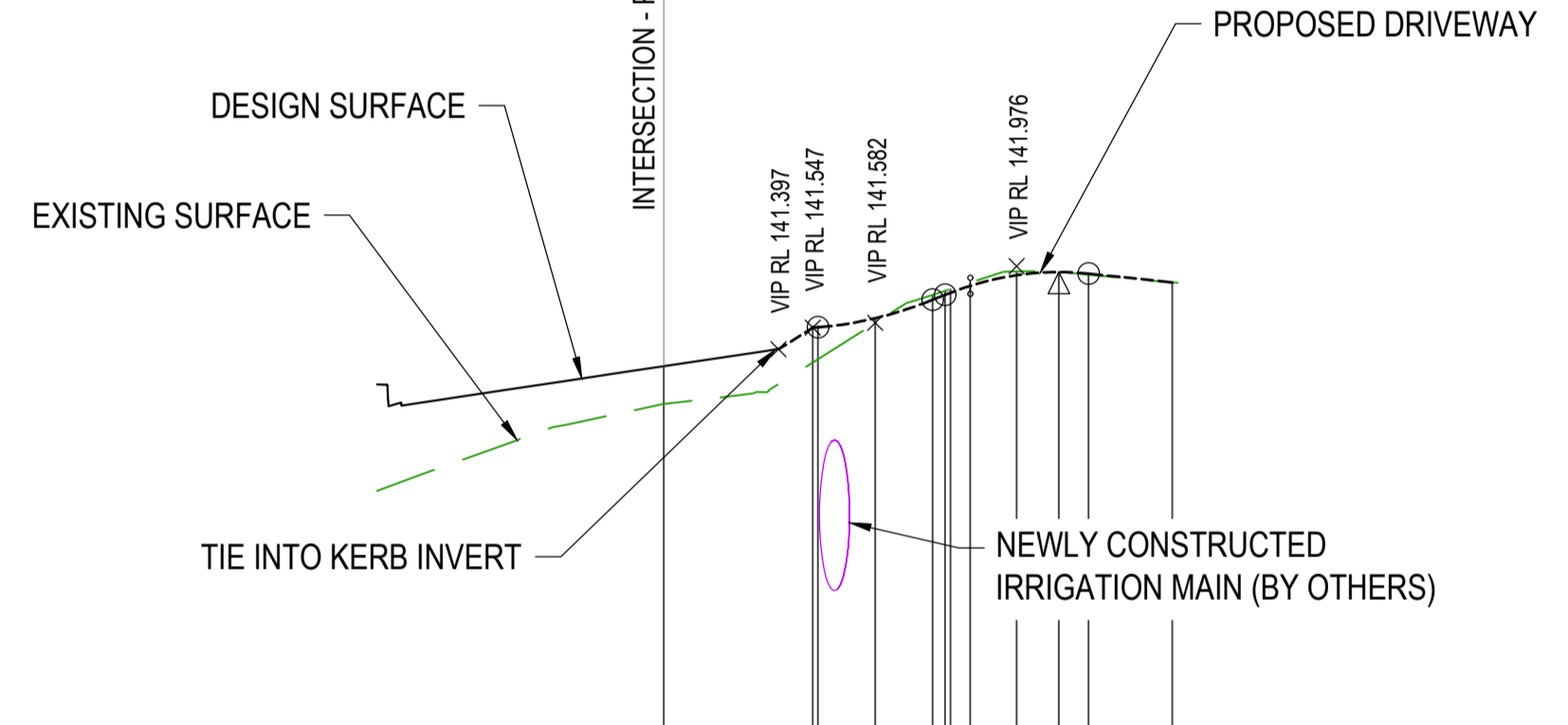
LONGITUDINAL SECTION 47 ELEVENTH AVE



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 136.500

CUT / FILL DEPTH			0.075	0.138	0.167	0.186	0.037	-0.000
DESIGN SURFACE LEVEL		141.136	141.161	141.145	141.137	141.118	141.082	
NATURAL SURFACE LEVEL	141.037	141.061	141.022	140.978	140.951	141.081	141.082	
CHAINAGE	0.000	6.200	7.645	9.261	10.000	11.964	15.626	

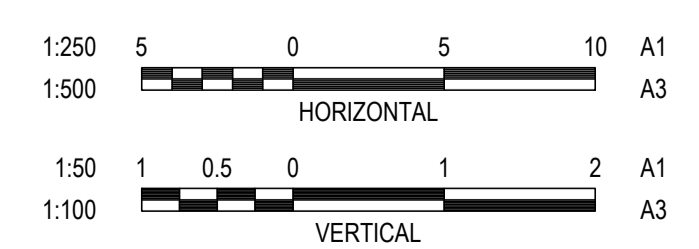
LONGITUDINAL SECTION 45 ELEVENTH AVE



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 135.400

CUT / FILL DEPTH			0.242	0.222	0.032	-0.035	-0.028	-0.023	-0.027	-0.002	0.008	0.000
DESIGN SURFACE LEVEL		141.547	141.550	141.614	141.742	141.776	141.791	141.839	141.913	141.935	141.925	141.864
NATURAL SURFACE LEVEL	141.016	141.305	141.328	141.582	141.777	141.805	141.817	141.861	141.940	141.937	141.917	141.864
CHAINAGE	0.000	5.200	5.380	7.380	9.380	9.813	10.000	10.687	12.313	13.785	14.813	17.741

LONGITUDINAL SECTION 1 PARTRIDGE DR

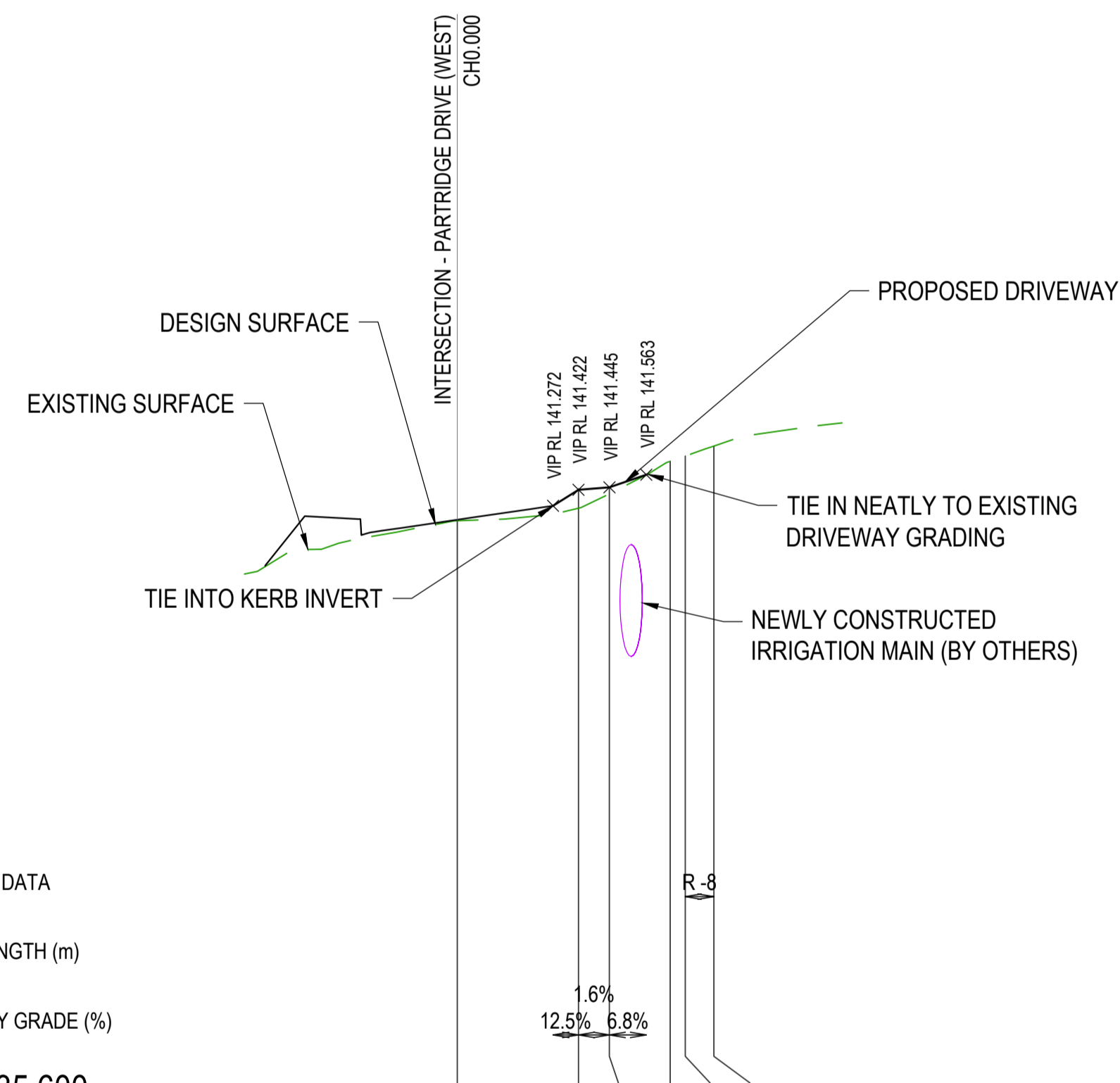


DESIGN CS
 DRAWN CS
 DESIGN CHECK SS
 Director: TONY SHELLEY (RPEQ 7736)

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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 DRIVEWAY LONGITUDINAL SECTION SHEET 1 OF 2

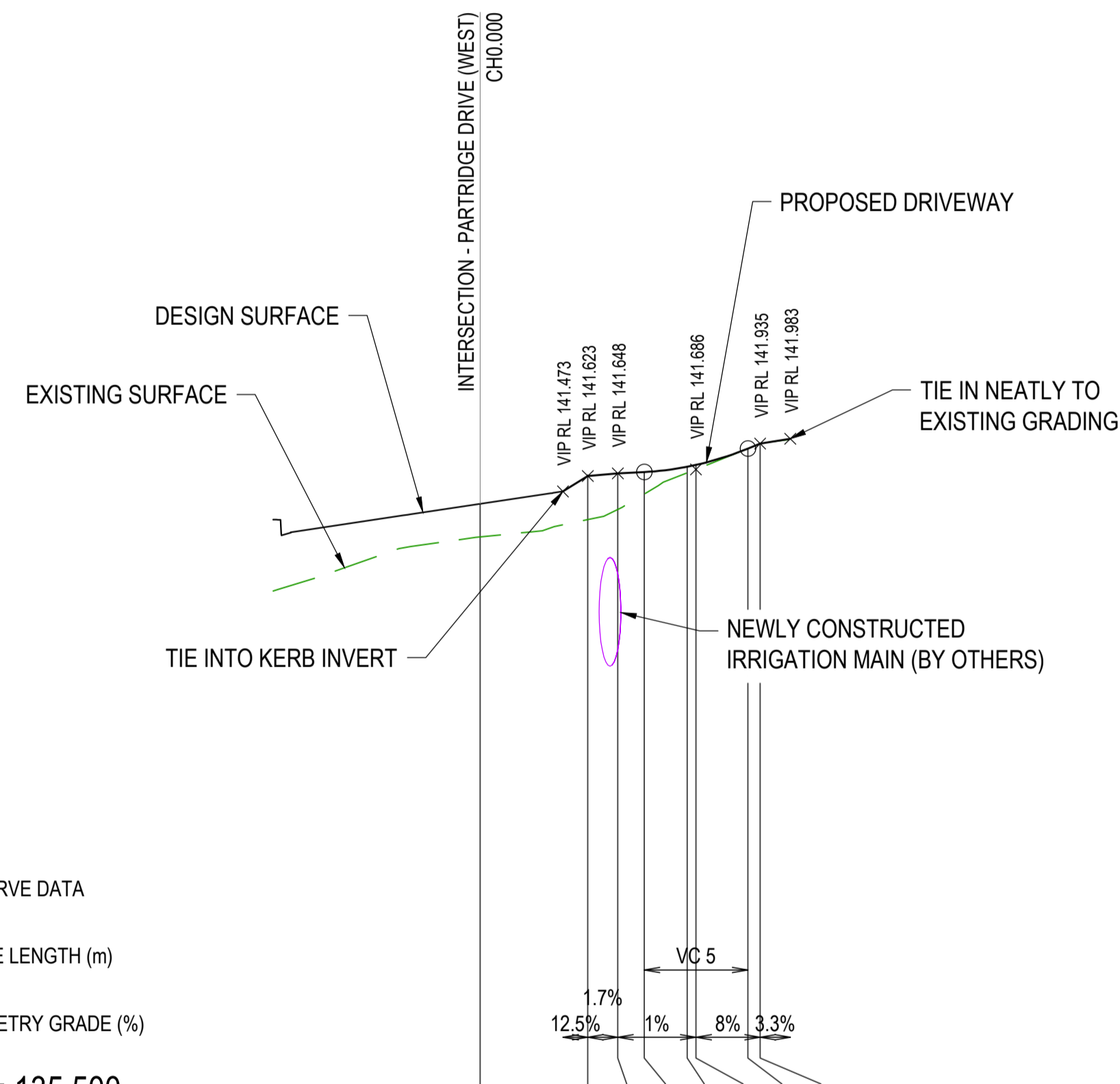
No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 135.600

CUT / FILL DEPTH							
DESIGN SURFACE LEVEL		141.422	141.445				
NATURAL SURFACE LEVEL	141.131	141.249	141.385	141.690	141.739	141.833	
CHAINAGE	0.000	5.699	7.162	10.000	10.711	12.056	20.000 20.175

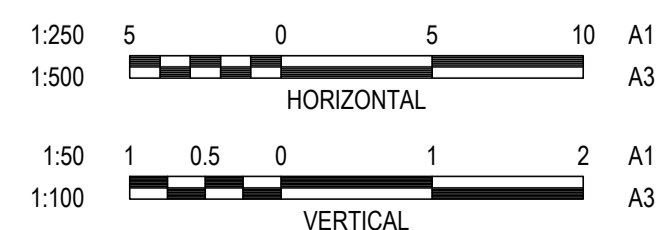
LONGITUDINAL SECTION 34 FIFTH AVE



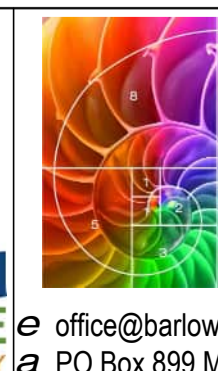
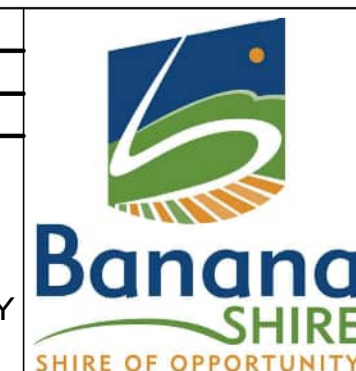
HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 135.500

CUT / FILL DEPTH							
DESIGN SURFACE LEVEL		141.623	141.648	141.661	141.712	141.730	141.887 141.935
NATURAL SURFACE LEVEL	141.034	141.202	141.300	141.449	141.652	141.686	141.887 141.935
CHAINAGE	0.000	5.200	6.650	7.926	10.000	10.426	12.926 13.527 16.354 18.632 20.000

LONGITUDINAL SECTION 6TH LANE



DESIGN CS
 DRAWN CS
 DESIGN CHECK SS
Tony Shelley
 Director: TONY SHELLEY
 (RPEQ 7736)

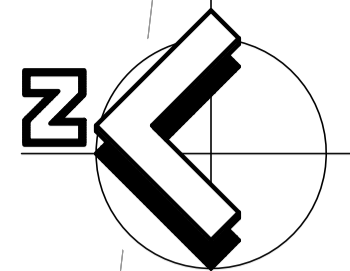


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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 DRIVEWAY LONGITUDINAL SECTION SHEET 2 OF 2

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-131	42 OF 85	1

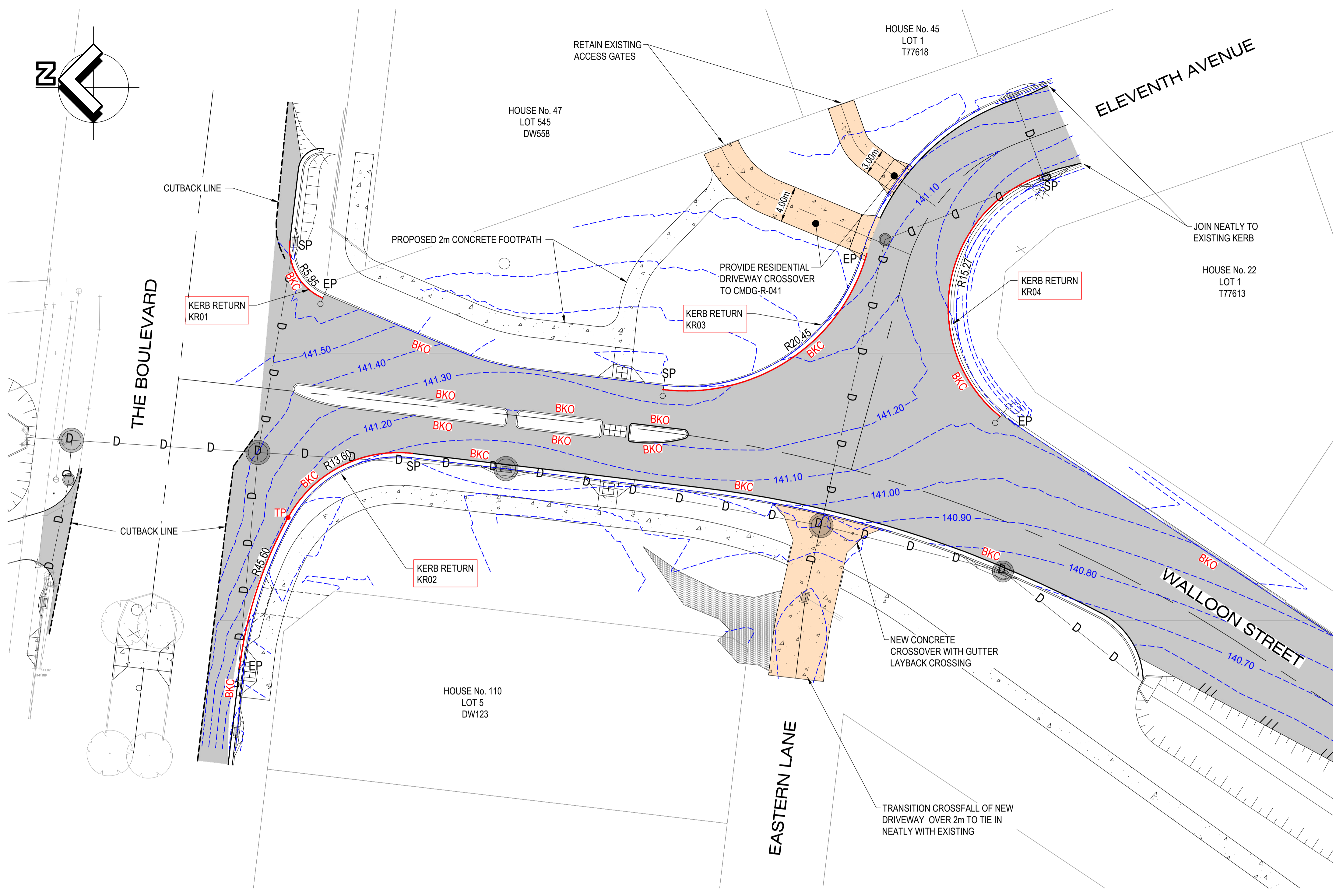


NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

LEGEND

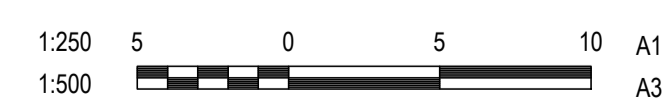
- BKC PROPOSED TYPE 1 BARRIER KERB AND CHANNEL IN ACCORDANCE WITH STD DWG CMDG-R-060
- BKO PROPOSED TYPE 3 BARRIER KERB ONLY IN ACCORDANCE WITH STD DWG CMDG-R-060
- /// /// PROPOSED ROAD SHOULDER

NOTE:
1. REFER TO DRAWING 2320-117 TO 118 FOR LONGITUDINAL SECTIONS OF KERB RETURNS



CAUTION - EXISTING SERVICES
THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023



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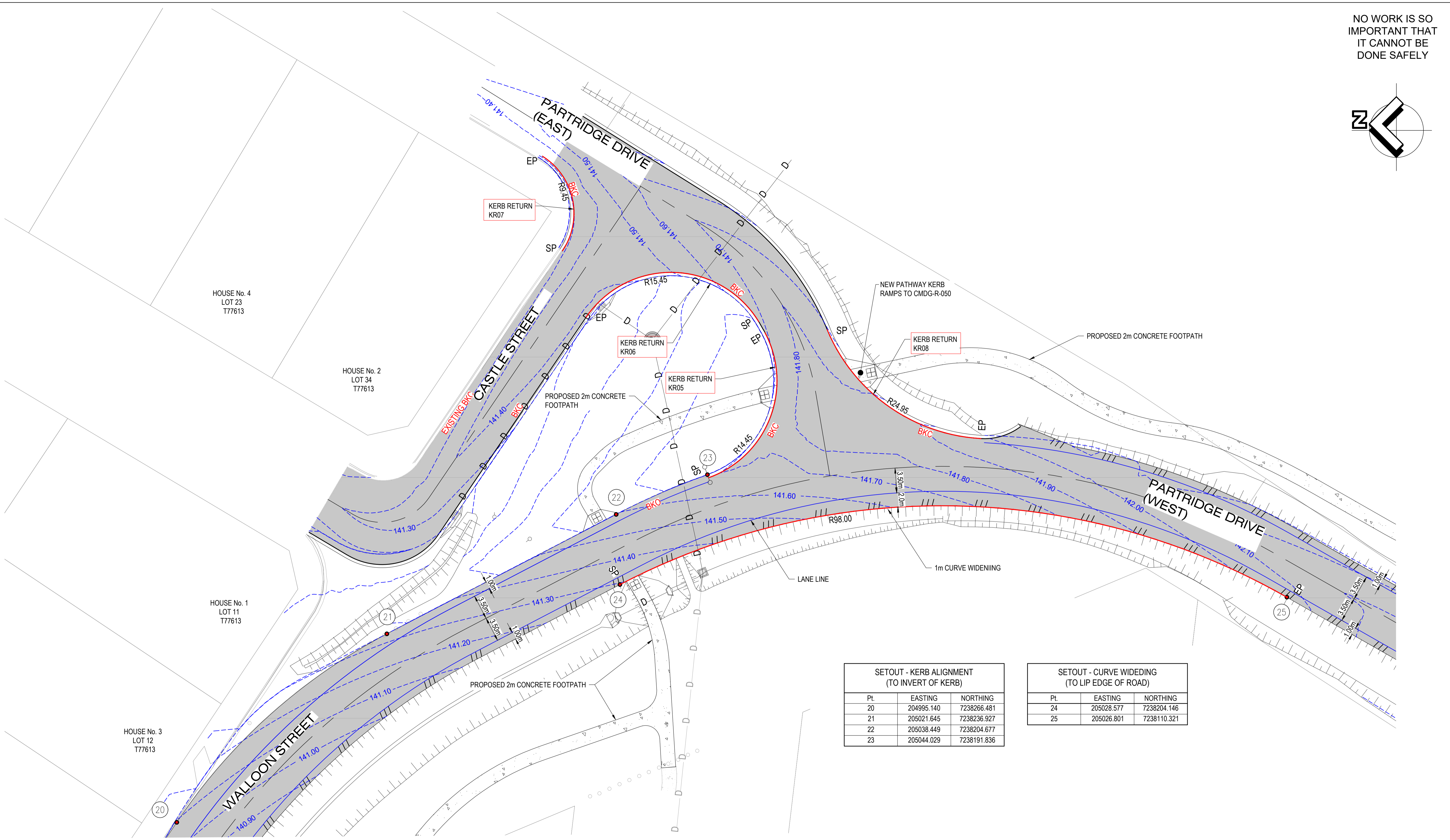
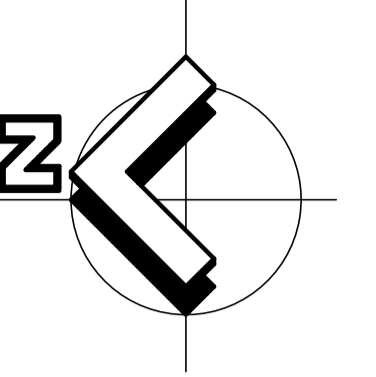
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS INTERSECTION DETAIL PLAN SHEET 1 OF 5			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-140	43 OF 85	1

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



SETOUT - KERB ALIGNMENT (TO INVERT OF KERB)		
Pt.	EASTING	NORTHING
20	204995.140	7238266.481
21	205021.645	7238236.927
22	205038.449	7238204.677
23	205044.029	7238191.836

SETOUT - CURVE WIDENING (TO LIP EDGE OF ROAD)		
Pt.	EASTING	NORTHING
24	205028.577	7238204.146
25	205026.801	7238110.321

NOTE:
1. REFER TO DRAWING 2320-117 TO 118 FOR LONGITUDINAL SECTIONS OF KERB RETURNS

CAUTION - EXISTING SERVICES
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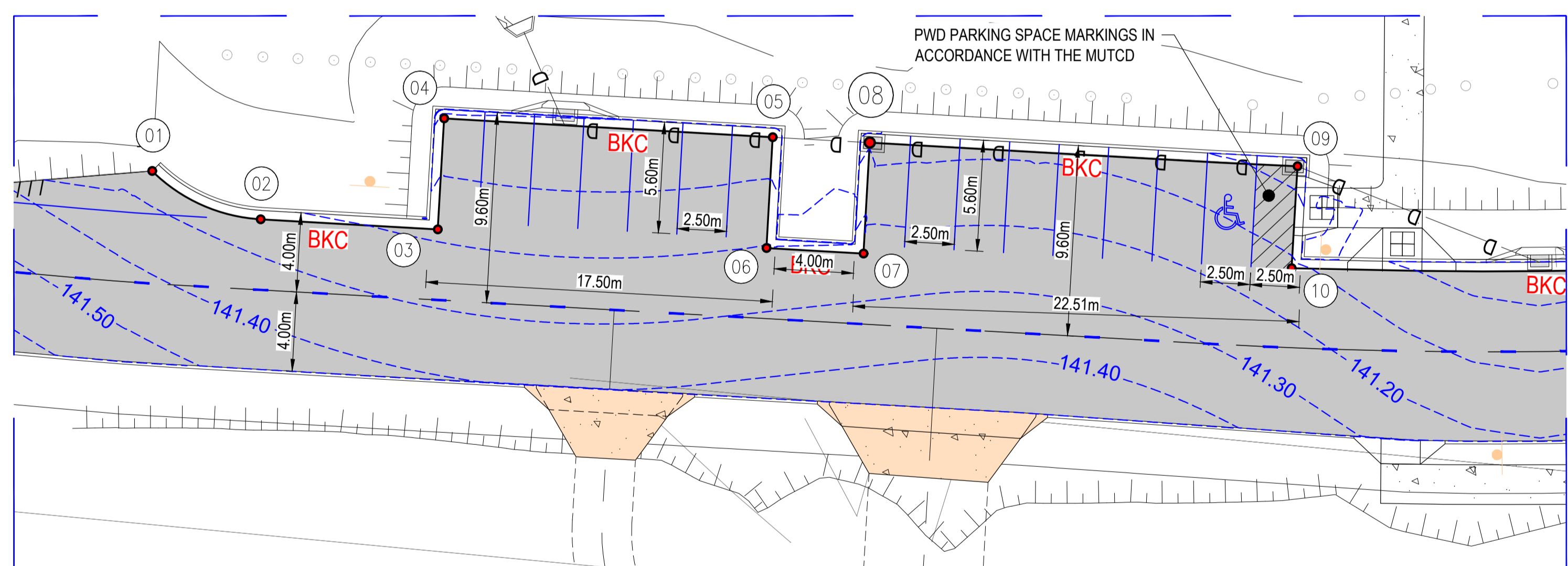
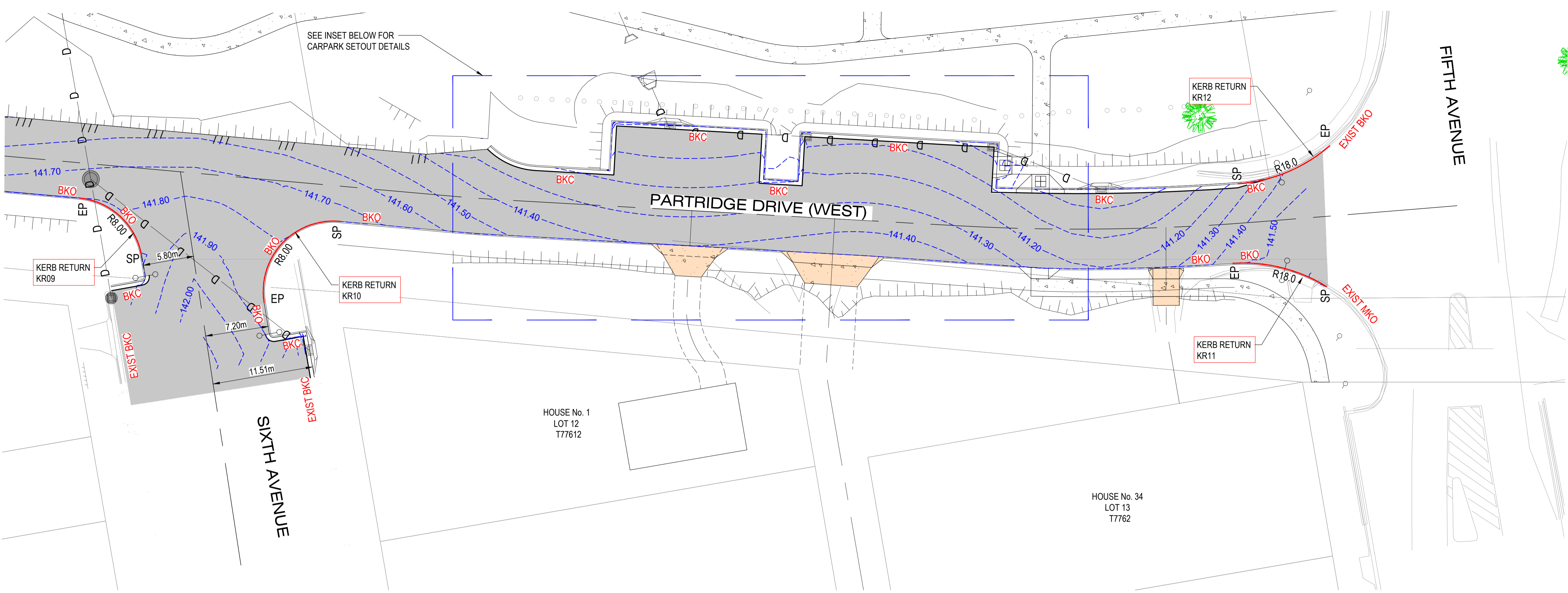
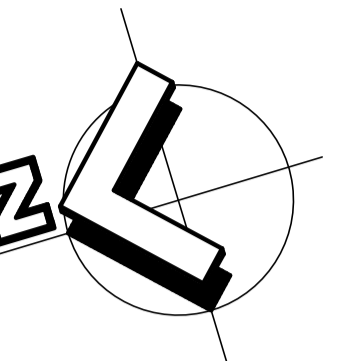
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS INTERSECTION DETAIL PLAN SHEET 2 OF 5			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-141	44 OF 85	1

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



SETOUT - CARPARK (TO LIP OF KERB)

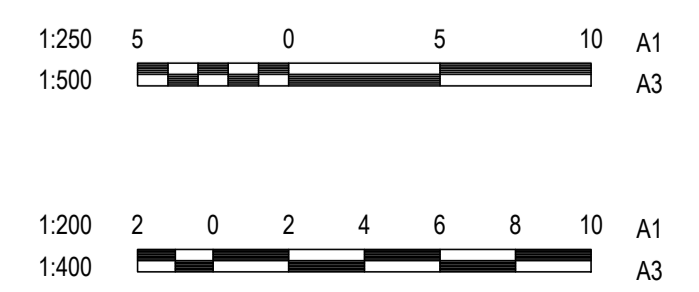
PL	EASTING	NORTHING
01	204877.599	7237767.133
02	204873.701	7237762.593
03	204870.653	7237754.178
04	204875.919	7237752.271
05	204870.266	7237736.663
06	204865.001	7237738.569
07	204863.333	7237733.962
08	204868.598	7237732.055
09	204861.274	7237711.735
10	204856.436	7237713.487

INSET
SCALE 1 : 200

NOTE:
1. REFER TO DRAWING 2320-117 TO 118 FOR LONGITUDINAL SECTIONS OF KERB RETURNS

CAUTION - EXISTING SERVICES
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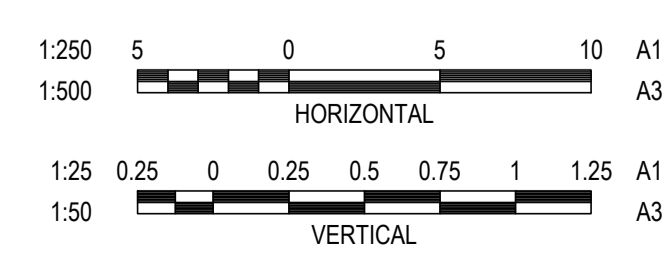
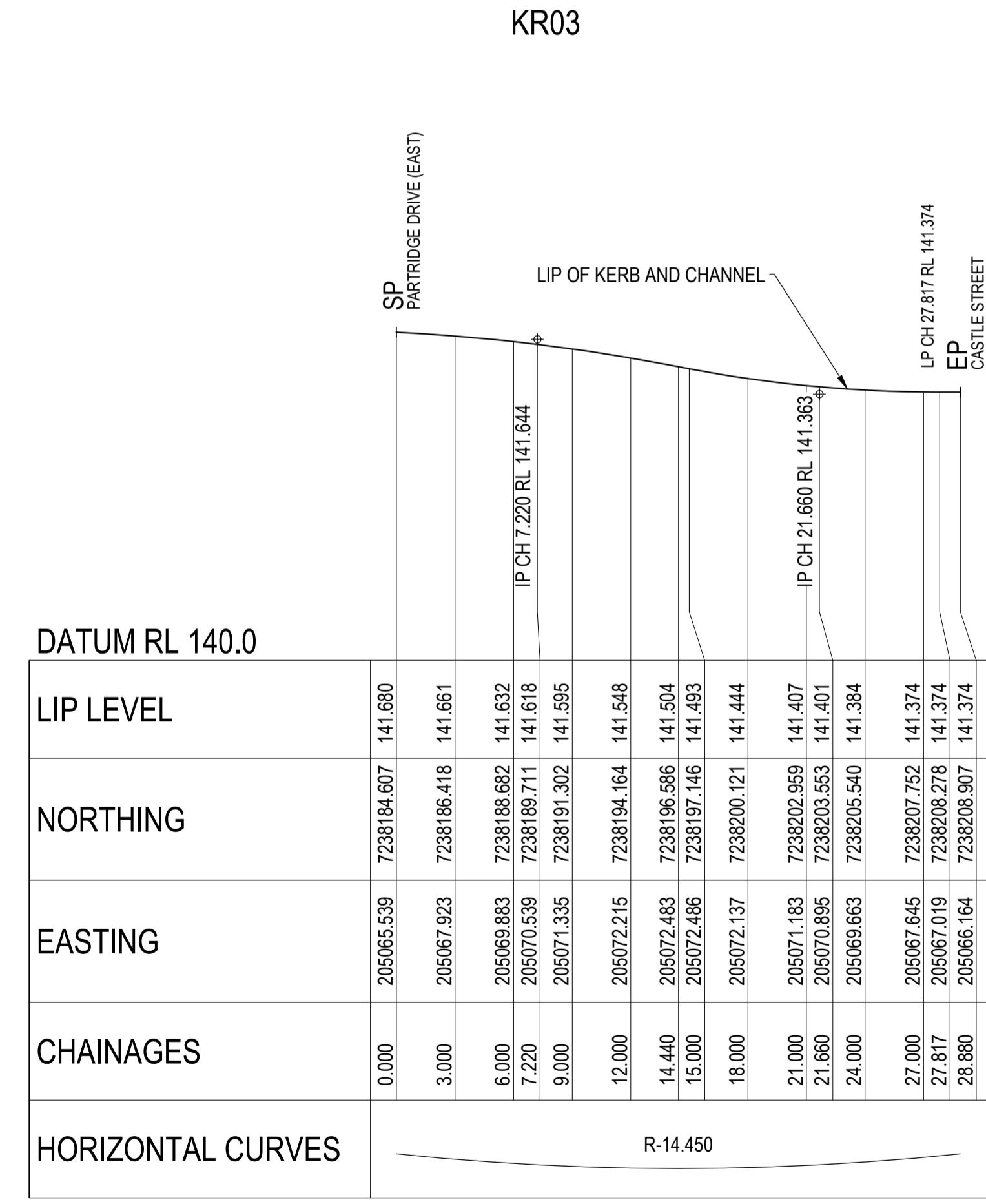
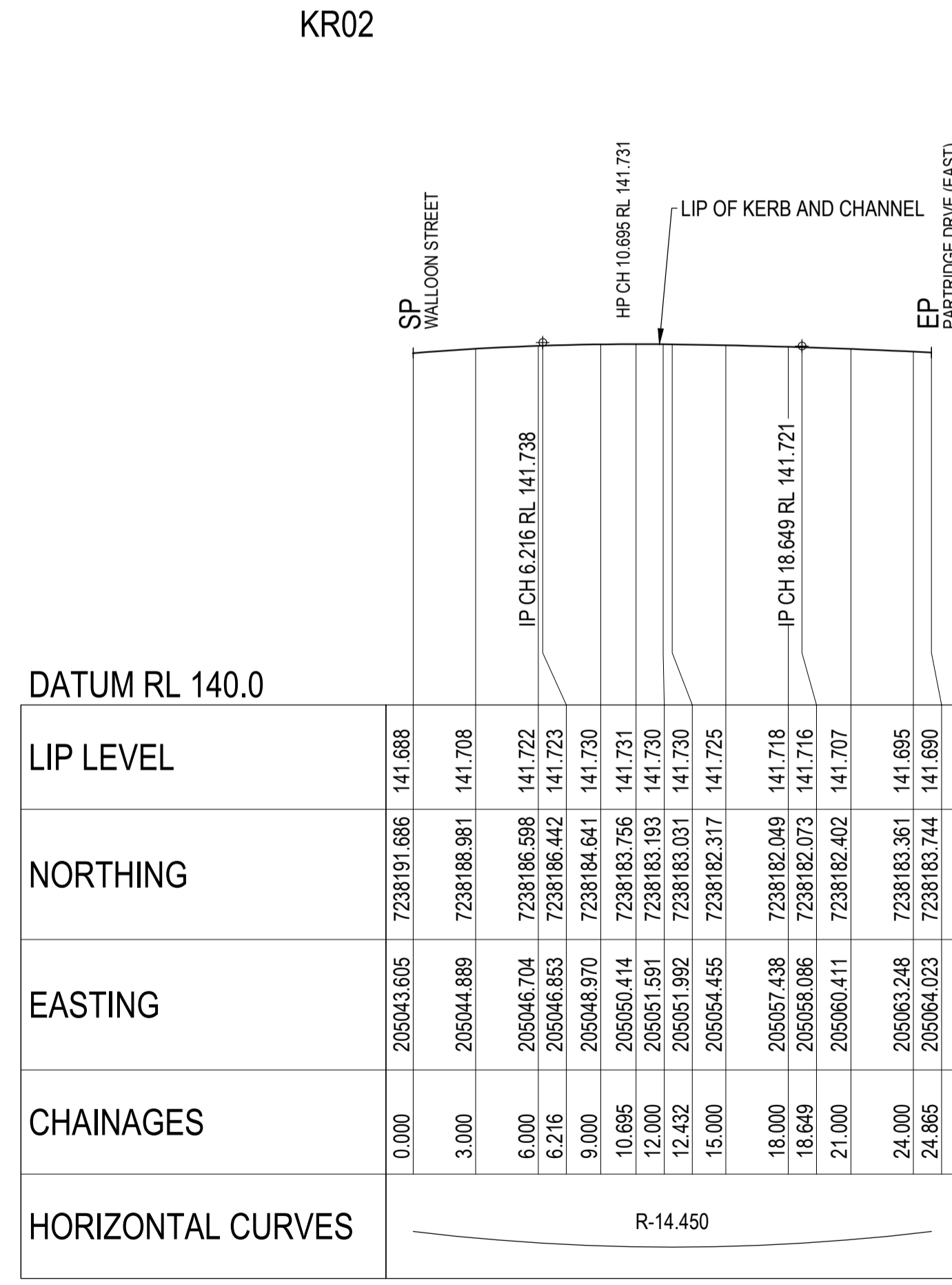
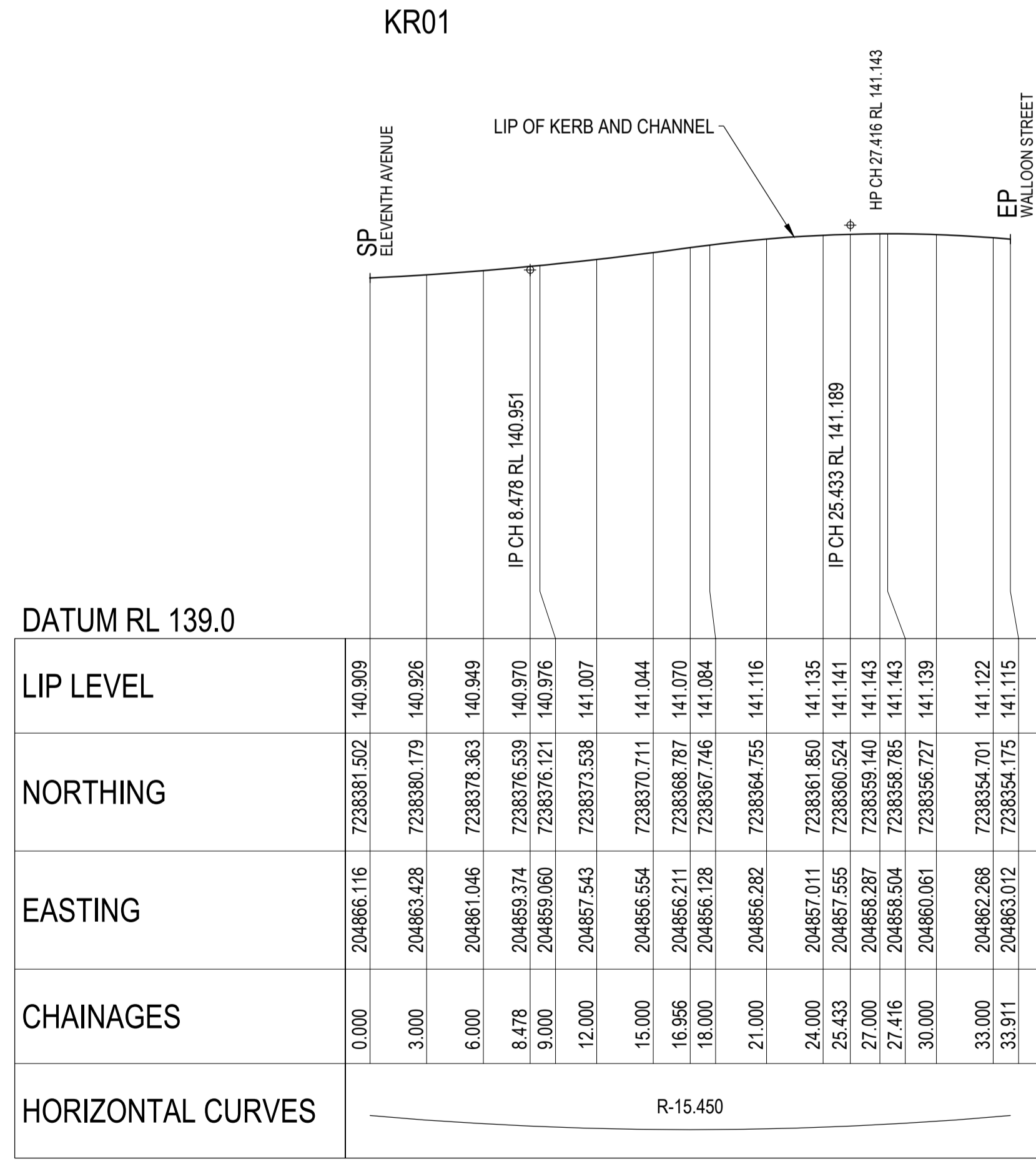
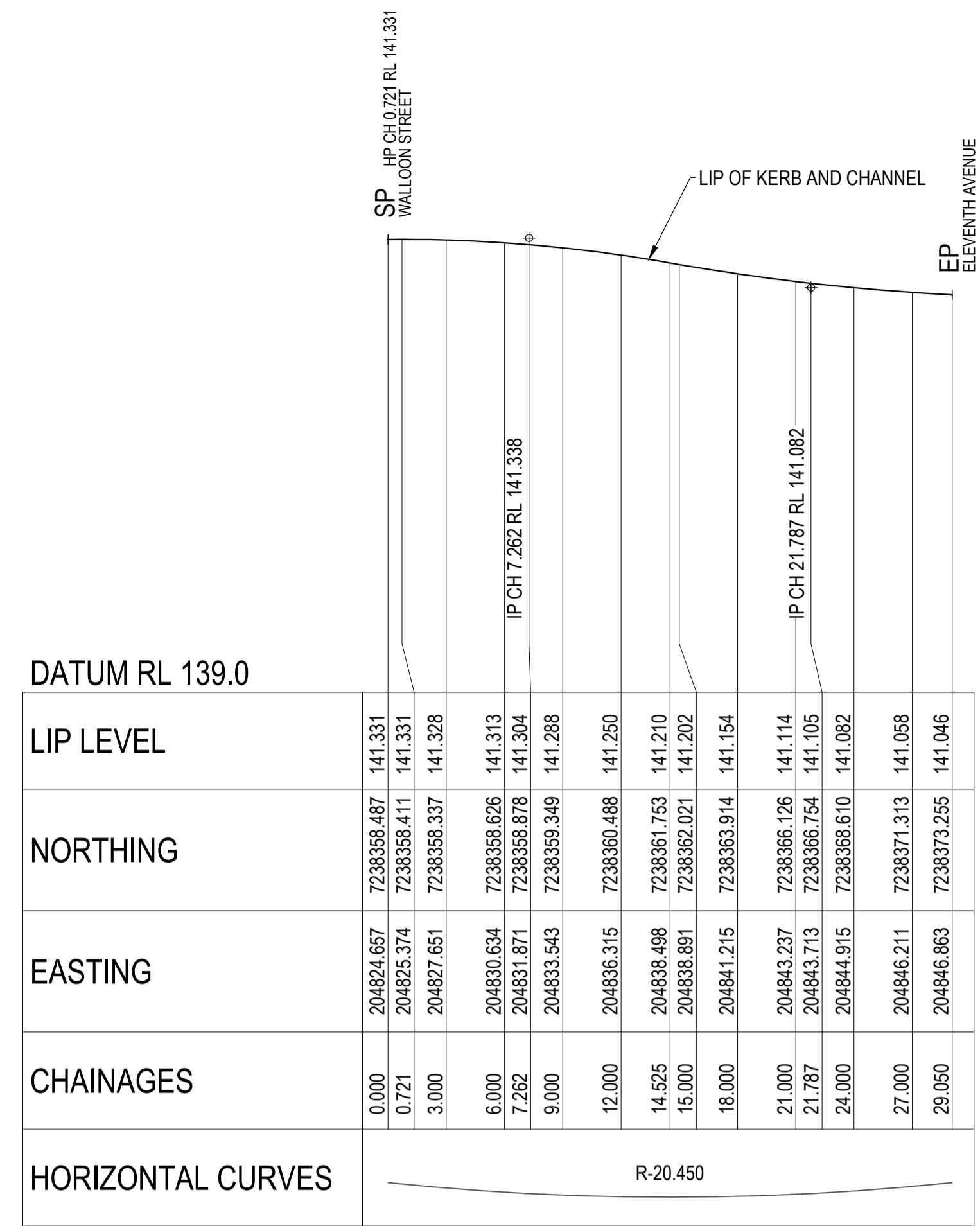
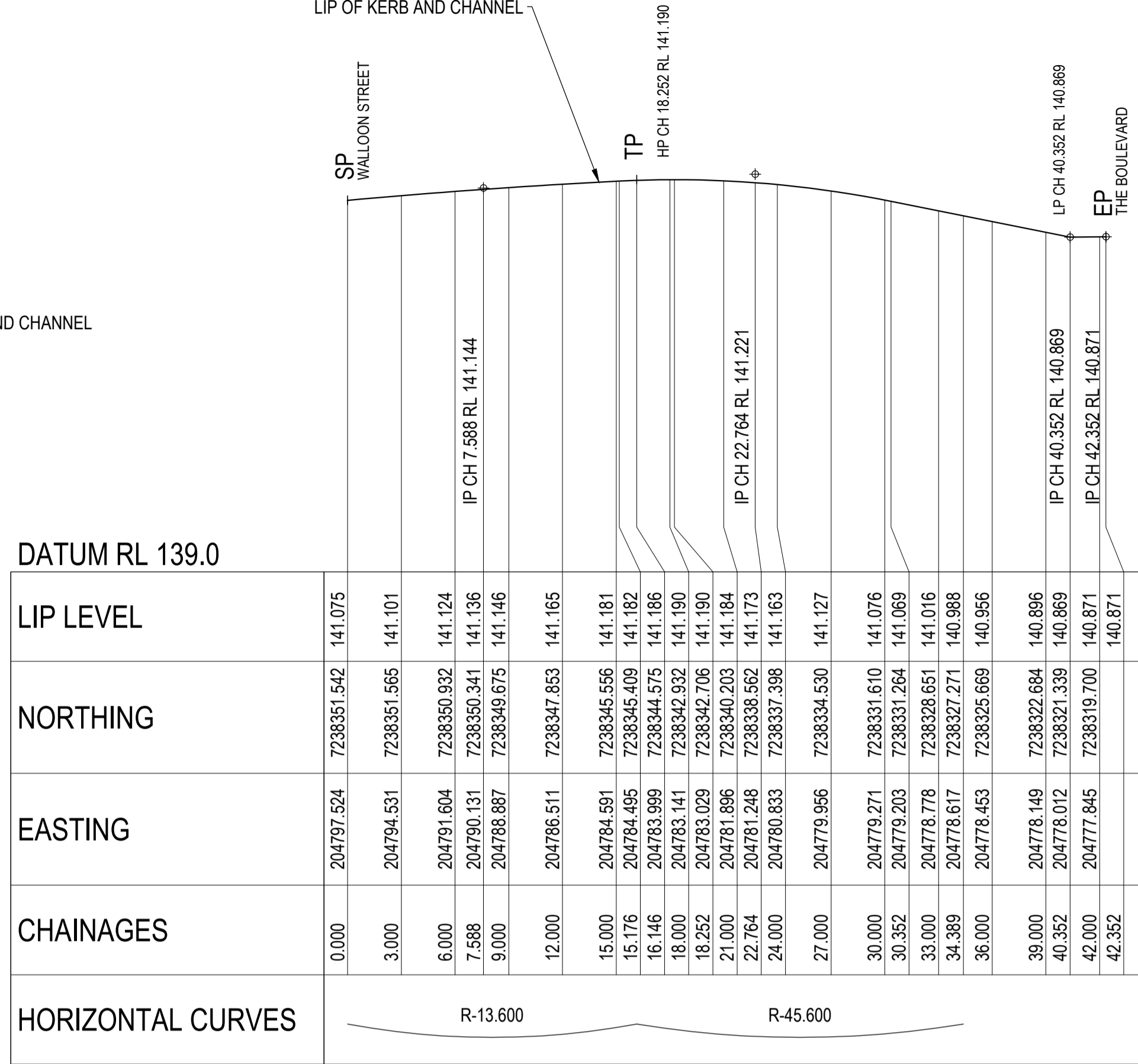
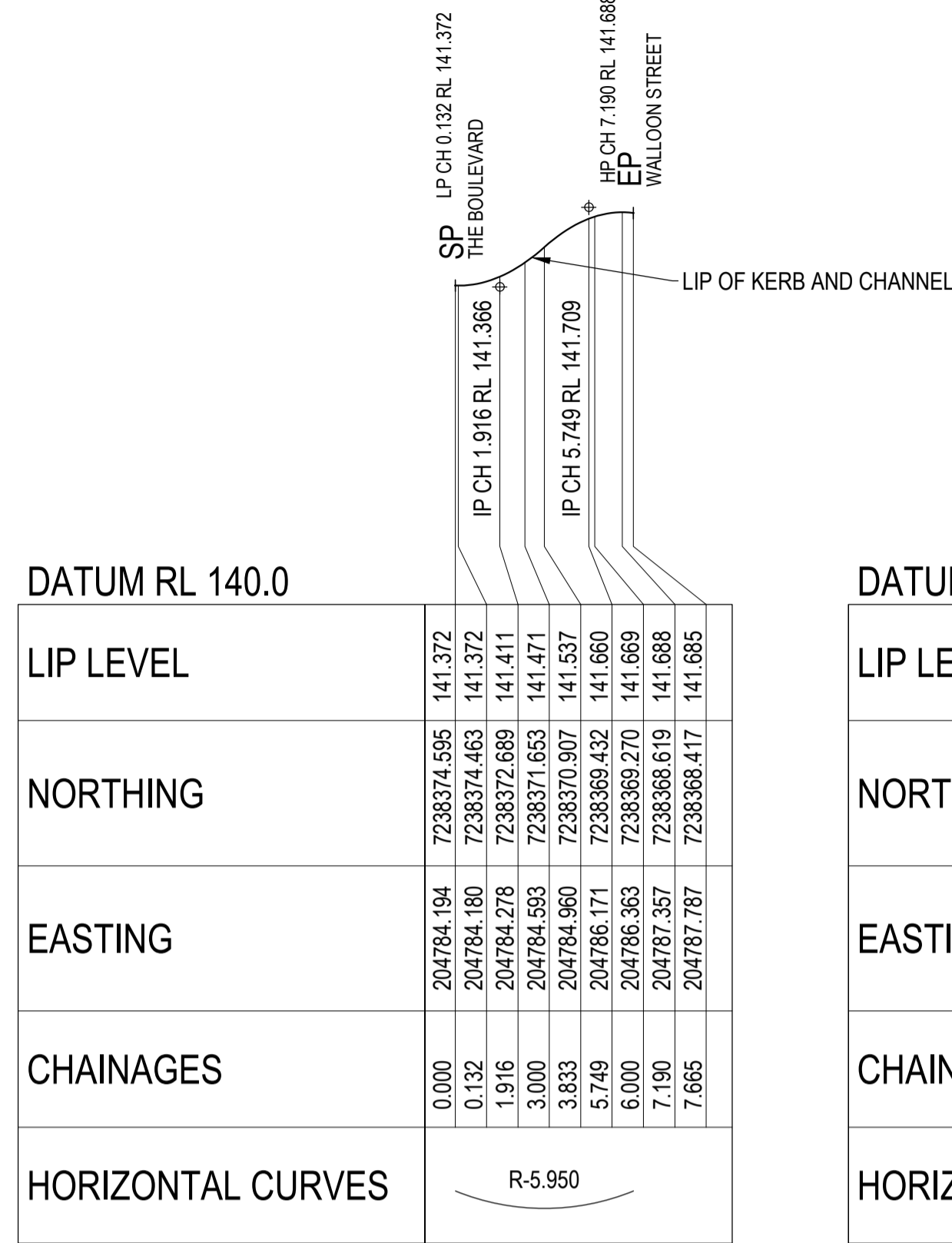
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS INTERSECTION DETAIL PLAN SHEET 3 OF 5			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-142	45 OF 85	1

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SP START POINT OF CURVE
TP TANGENT POINT OF CURVE
EP END POINT OF CURVE



No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023

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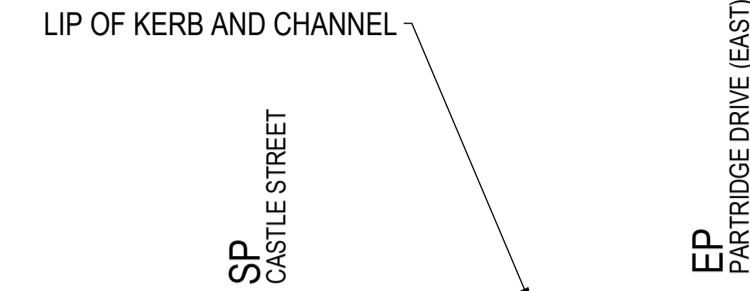
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
INTERSECTION DETAIL PLAN SHEET 4 OF 5

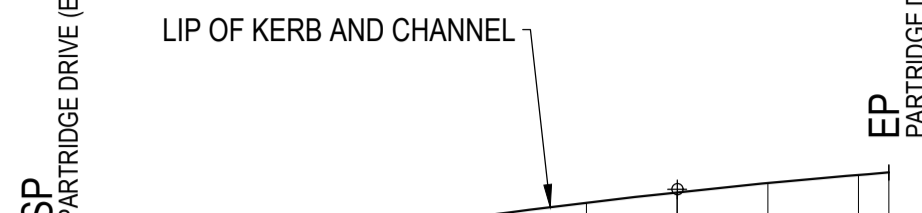
Scale AS SHOWN Dwg. No. 2320-143 Sheet 46 OF 85 Issue 1



DATUM RL 140.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
141.276	7238212.344	205075.702	0.000	R-9.450
141.287	7238211.097	205078.417	3.000	
141.290	7238210.910	205079.225	3.831	
141.296	7238210.760	205081.385	6.000	
141.301	7238210.981	205083.029	7.661	
141.304	7238211.367	205084.310	9.000	
141.308	7238212.547	205086.496	11.492	
141.309	7238212.856	205086.900	12.000	
141.311	7238215.080	205088.895	15.000	
141.311	7238215.353	205089.065	15.322	

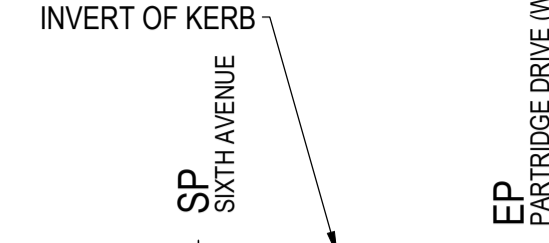
KR07



DATUM RL 140.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
141.707	7238174.998	205064.453	0.000	R-24.950
141.725	7238173.684	205061.759	3.000	
141.748	7238172.056	205059.241	6.000	
141.757	7238171.446	205058.445	7.003	
141.777	7238170.137	205056.937	9.000	
141.811	7238167.956	205054.890	12.000	
141.837	7238166.368	205053.657	14.005	
141.850	7238165.544	205053.099	15.000	
141.888	7238162.936	205051.620	18.000	
141.922	7238160.169	205050.465	21.000	
141.953	7238157.284	205049.650	24.000	
141.980	7238154.322	205049.187	27.000	
141.988	7238153.314	205049.112	28.011	

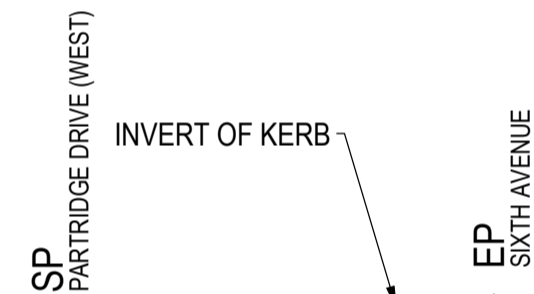
KR08



DATUM RL 140.0

INVERT LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
141.837	7237808.372	204877.302	0.000	R-8.000
141.824	7237808.323	204878.342	1.042	
141.819	7237808.409	204879.381	2.085	
141.819	7237808.596	204880.276	3.000	
141.814	7237809.683	204882.961	6.000	
141.814	7237810.048	204883.164	6.255	
141.804	7237812.084	204884.985	9.000	
141.798	7237813.353	204885.628	10.425	

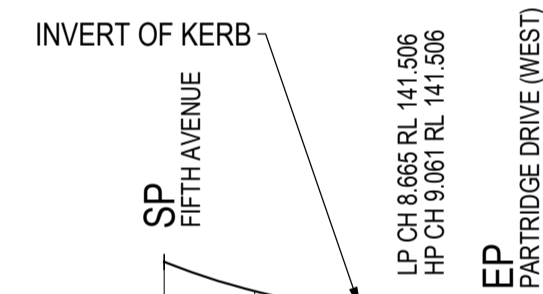
KR09



DATUM RL 140.0

INVERT LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
141.756	7237785.620	204874.547	0.000	R-8.000
141.762	7237786.547	204875.118	3.000	
141.799	7237791.329	204874.634	5.838	
141.800	7237791.480	204874.577	6.000	
141.811	7237794.011	204872.999	9.000	
141.814	7237795.642	204870.892	11.677	
141.815	7237795.788	204870.604	12.000	
141.820	7237796.209	204869.550	13.137	
141.837	7237796.524	204868.127	14.596	

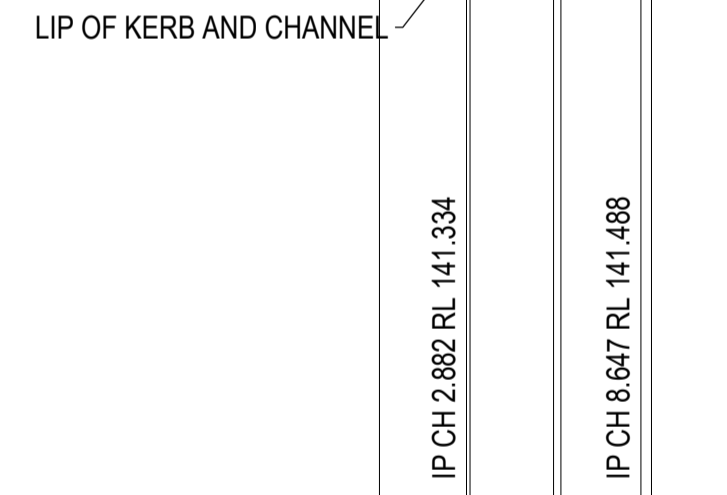
KR10



DATUM RL 140.0

INVERT LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
141.675	7237679.978	204835.179	0.000	R-18.000
141.579	7237682.147	204837.247	3.000	
141.546	7237683.340	204838.129	4.484	
141.522	7237684.629	204839.926	6.000	
141.506	7237687.040	204840.054	8.665	
141.506	7237687.326	204840.160	8.969	
141.506	7237687.355	204840.170	9.000	
141.506	7237687.413	204840.191	9.061	
141.499	7237686.392	204840.507	10.090	
141.472	7237689.477	204840.788	11.211	

KR11

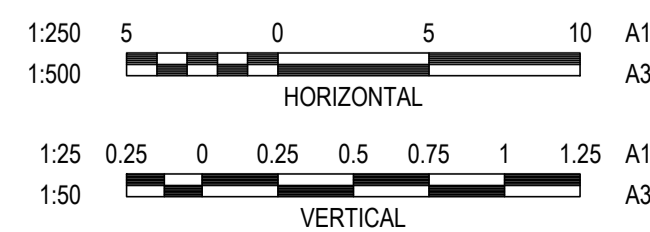


DATUM RL 139.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
141.242	7237686.296	204849.300	0.000	R-18.000
141.331	7237685.444	204848.907	2.882	
141.334	7237685.326	204848.900	3.000	
141.411	7237680.565	204846.973	5.765	
141.418	7237680.331	204846.999	6.000	
141.467	7237677.734	204849.496	8.647	
141.496	7237677.394	204849.594	9.000	
141.560	7237675.023	204850.468	11.530	

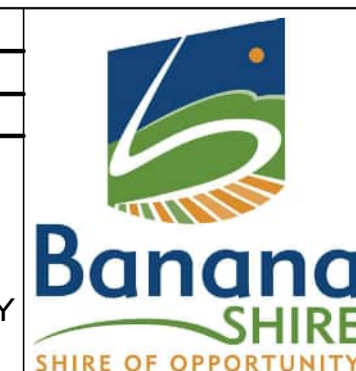
KR12

SP START POINT OF CURVE
 TP TANGENT POINT OF CURVE
 EP END POINT OF CURVE



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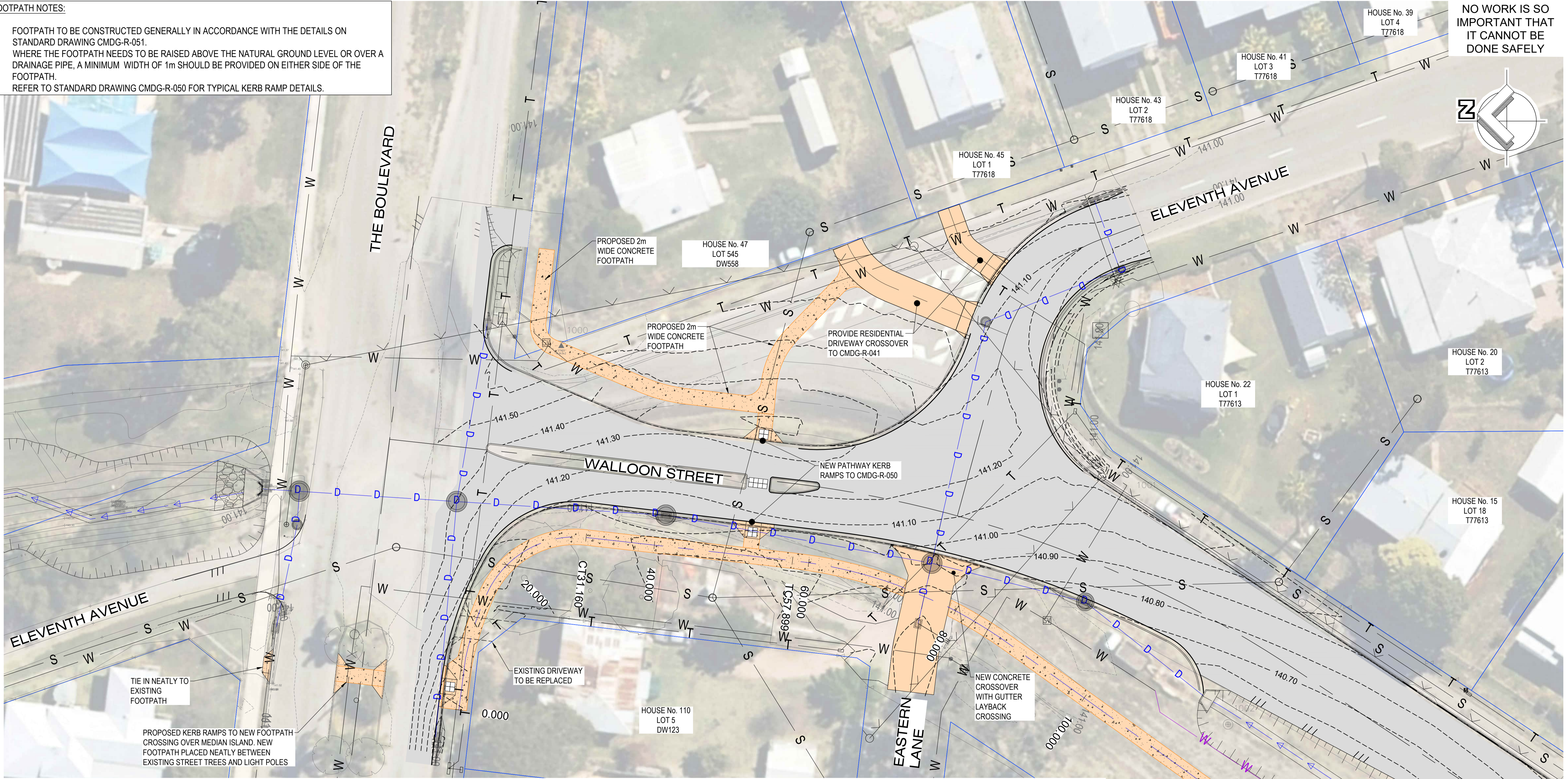
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 INTERSECTION DETAIL PLAN SHEET 5 OF 5

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-144	47 OF 85	1

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023

- FOOTPATH NOTES:**
1. FOOTPATH TO BE CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE DETAILS ON STANDARD DRAWING CMDG-R-051.
 2. WHERE THE FOOTPATH NEEDS TO BE RAISED ABOVE THE NATURAL GROUND LEVEL OR OVER A DRAINAGE PIPE, A MINIMUM WIDTH OF 1m SHOULD BE PROVIDED ON EITHER SIDE OF THE FOOTPATH.
 3. REFER TO STANDARD DRAWING CMDG-R-050 FOR TYPICAL KERB RAMP DETAILS.

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



LEGEND

	EXISTING PROPERTY BOUNDARY		EXISTING FENCE		PROPOSED FOOTPATH COUNCIL SETOUT OPTION		PROPOSED ROAD SHOULDER
	EXISTING WATERMAIN		EXISTING BITUMEN		PROPOSED DRIVEWAY		PROPOSED KERB
	PROPOSED WATER MAIN		EXISTING KERB & CHANNEL		PROPOSED ROAD SURFACE		PROPOSED CONTROL LINE (ROADWORKS)
	EXISTING GRAVITY SEWER		EXISTING SWALE		PROPOSED INLET PIT		PROPOSED CONTROL LINE (FOOTPATH)
	EXISTING STORMWATER		EXISTING TREE		PROPOSED STORMWATER		PROPOSED SWALE
	EXISTING ELECTRICAL		EXISTING TREE - PROTECTED SPECIES LIVISTONIA NITIDA		PROPOSED HEADWALL		PROPOSED SURFACE CONTOURS
	EXISTING TELECOMMUNICATIONS		EXISTING SURVEY STAKES		PROPOSED FINISHED SURFACE LEVEL		EXISTING SURFACE CONTOURS
	NEWLY CONSTRUCTED IRRIGATION MAIN (BY OTHERS)						EARTHWORK BATTERS

CAUTION - EXISTING SERVICES
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NOTE
 LOCATION OF ALL EXISTING TREES TO BE CONFIRMED ON SITE

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023



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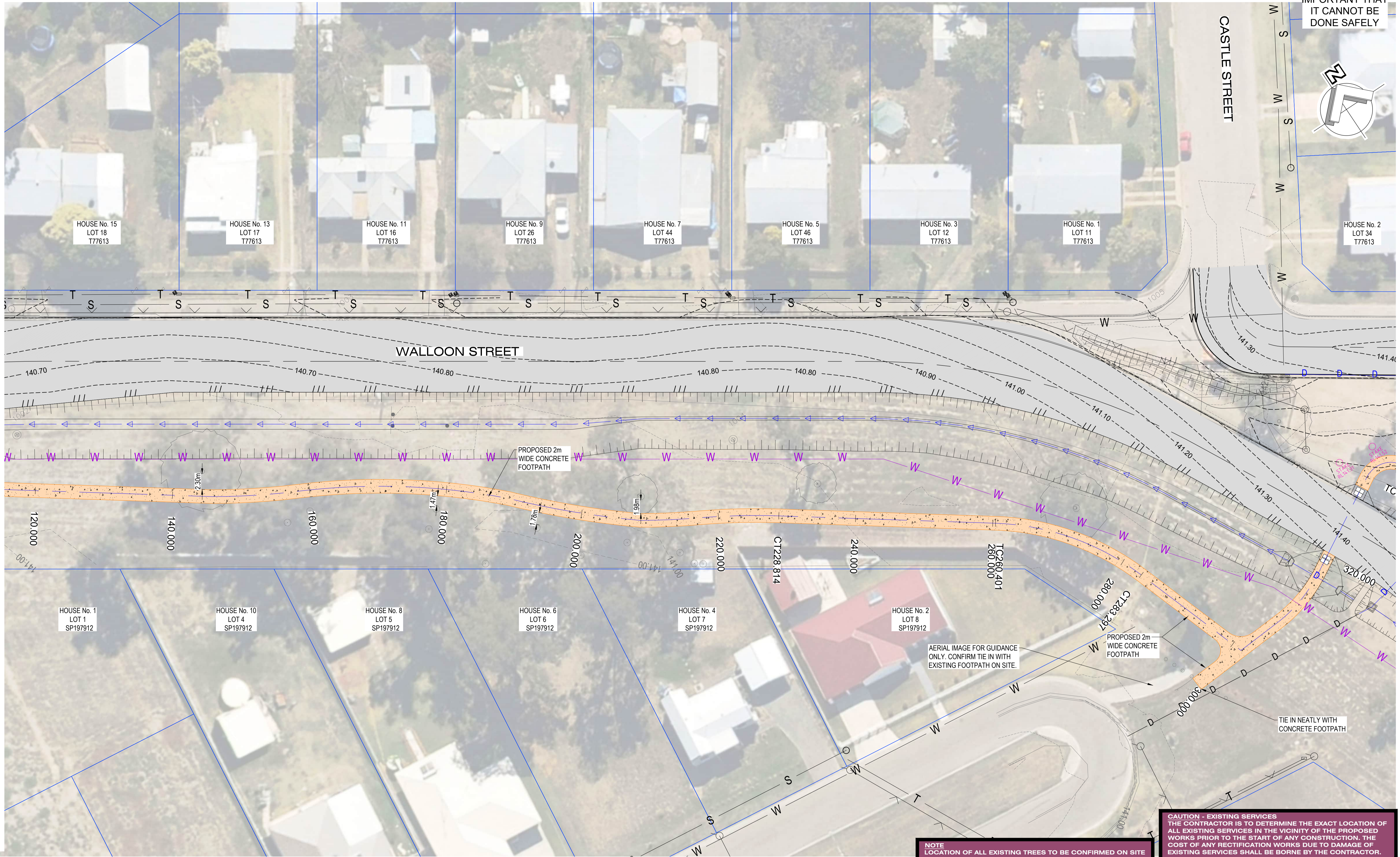
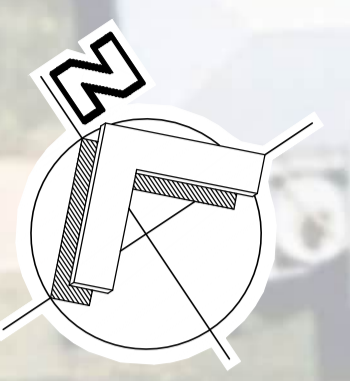
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE		Scale	Dwg. No.	Sheet	Issue
PAVEMENT WIDENING AND REHABILITATION WORKS		AS SHOWN	2320-150	48 OF 85	1
FOOTPATH LAYOUT PLAN 1 OF 6					

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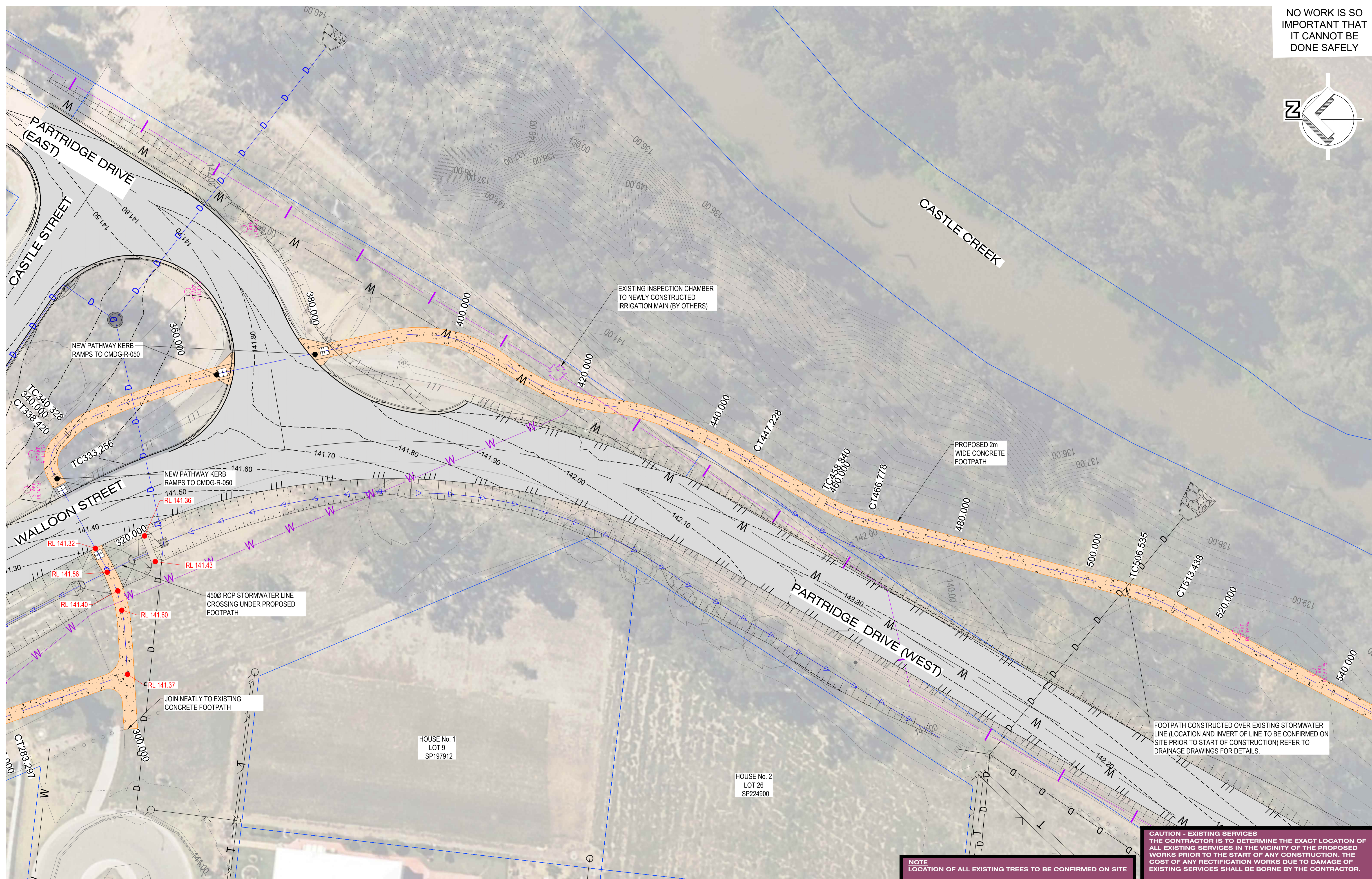
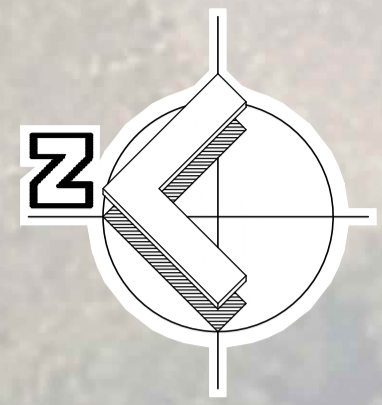
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS FOOTPATH LAYOUT PLAN 2 OF 6			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-151	49 OF 85	1

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



NOTE
LOCATION OF ALL EXISTING TREES TO BE CONFIRMED ON SITE

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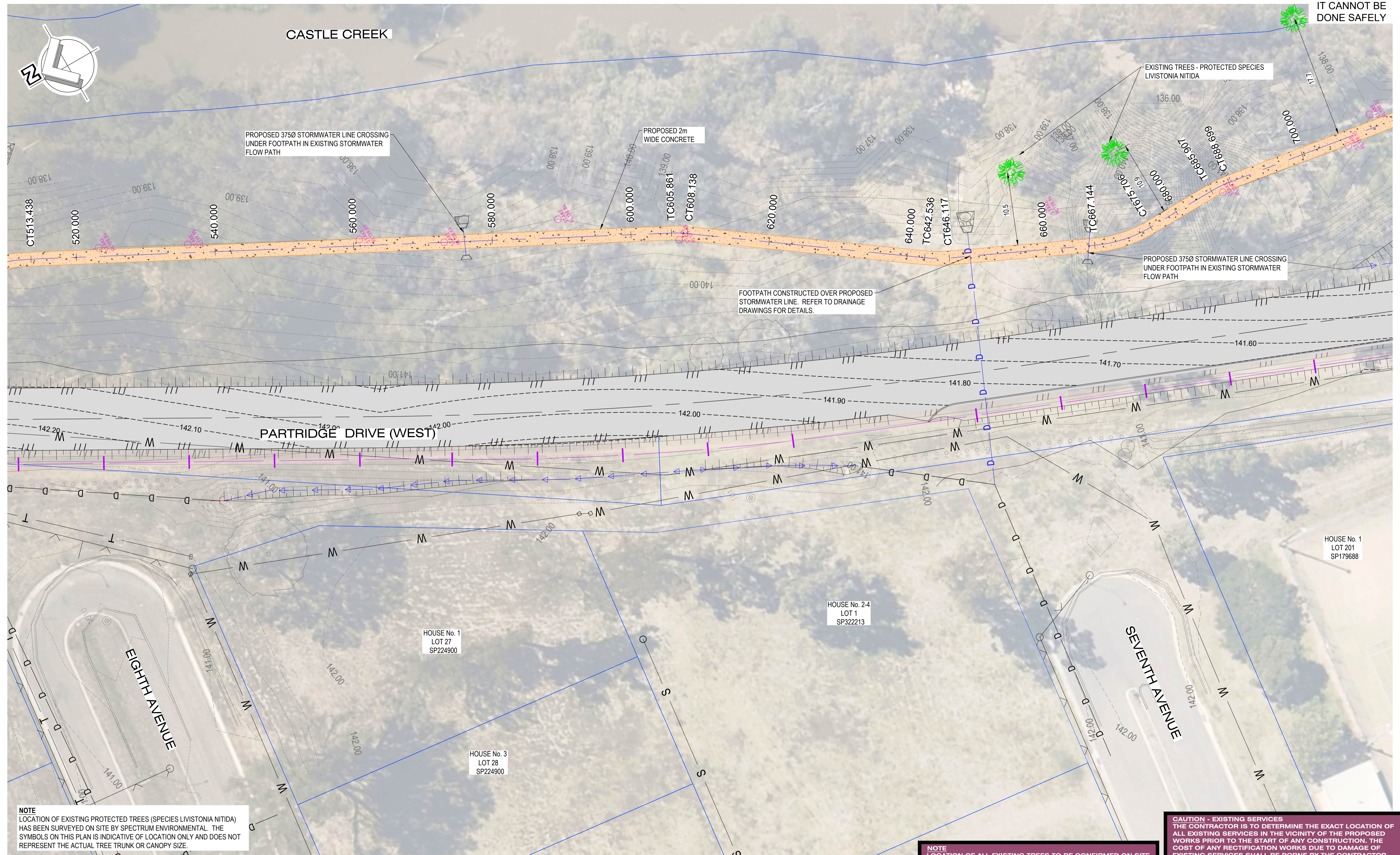
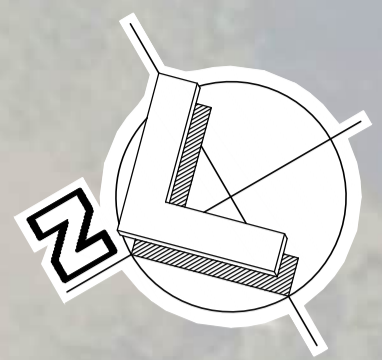
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS FOOTPATH LAYOUT PLAN 3 OF 6			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-152	50 OF 85	1

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

CASTLE CREEK



NOTE
LOCATION OF EXISTING PROTECTED TREES (SPECIES LIVISTONIA NITIDA) HAS BEEN SURVEYED ON SITE BY SPECTRUM ENVIRONMENTAL. THE SYMBOLS ON THIS PLAN IS INDICATIVE OF LOCATION ONLY AND DOES NOT REPRESENT THE ACTUAL TREE TRUNK OR CANOPY SIZE.

NOTE
LOCATION OF ALL EXISTING TREES TO BE CONFIRMED ON SITE

CAUTION - EXISTING SERVICES
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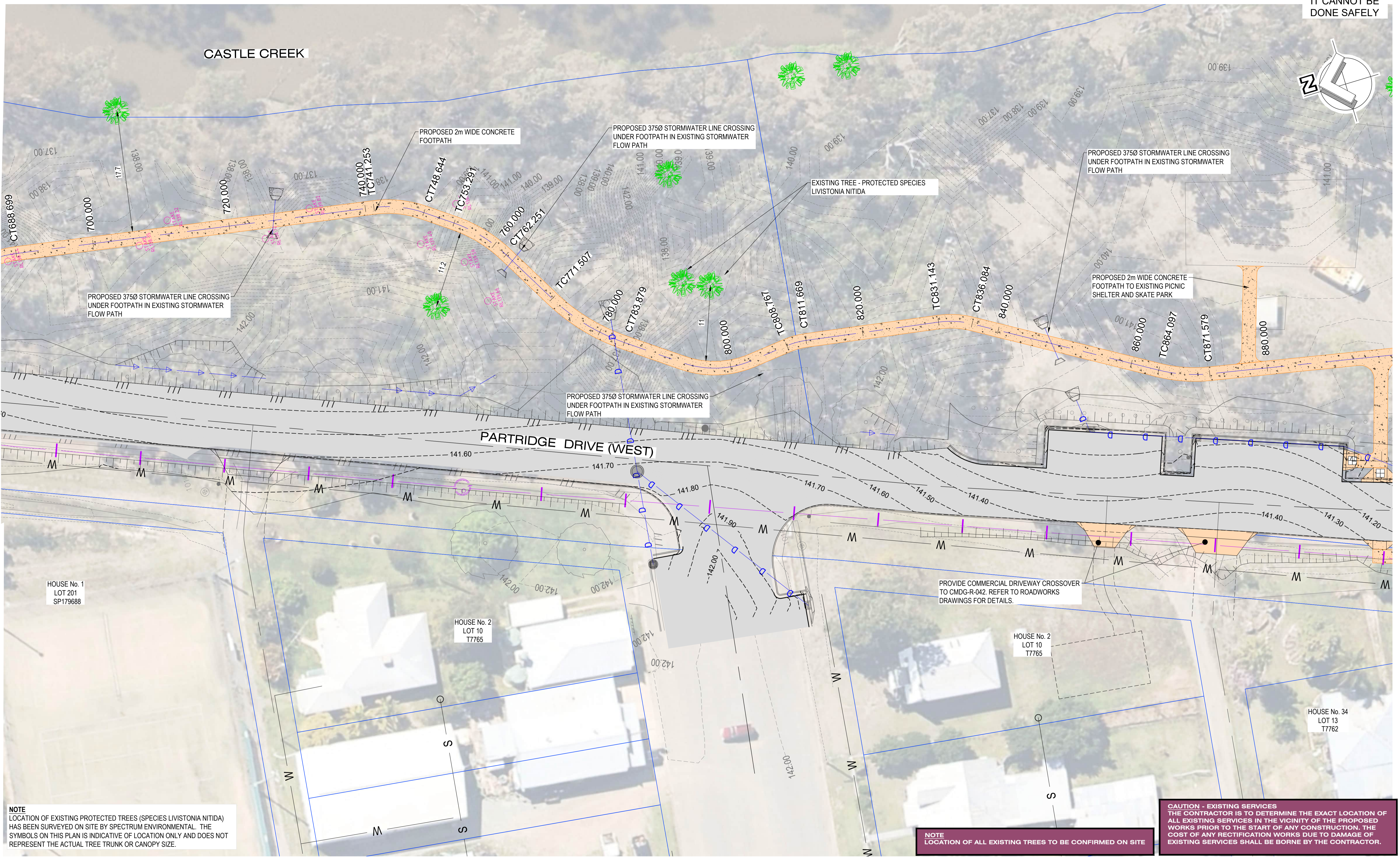
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS FOOTPATH LAYOUT PLAN 4 OF 6			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-153	51 OF 85	1

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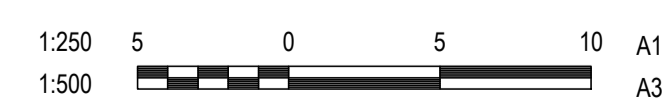


NOTE
LOCATION OF EXISTING PROTECTED TREES (SPECIES LIVISTONIA NITIDA) HAS BEEN SURVEYED ON SITE BY SPECTRUM ENVIRONMENTAL. THE SYMBOLS ON THIS PLAN IS INDICATIVE OF LOCATION ONLY AND DOES NOT REPRESENT THE ACTUAL TREE TRUNK OR CANOPY SIZE.

NOTE
LOCATION OF ALL EXISTING TREES TO BE CONFIRMED ON SITE

CAUTION - EXISTING SERVICES
THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023



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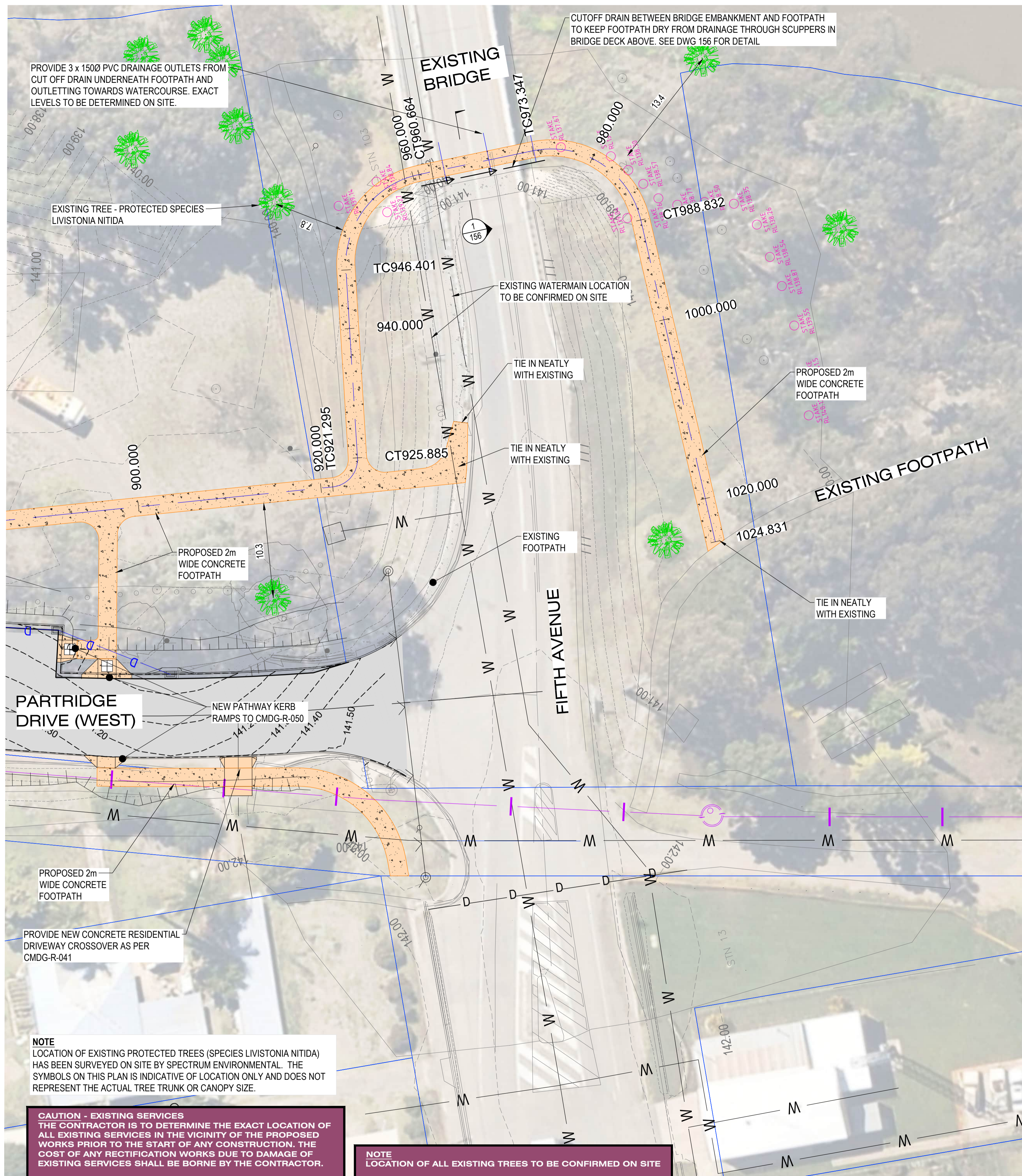
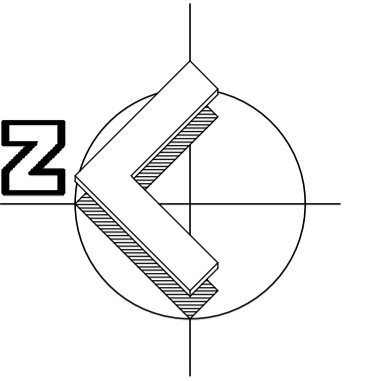
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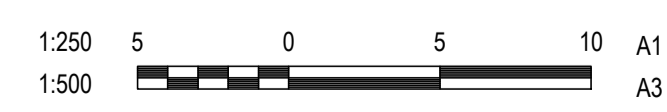
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
FOOTPATH LAYOUT PLAN 5 OF 6

Scale AS SHOWN Dwg. No. 2320-154 Sheet 52 OF 85 Issue 1

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1	ISSUE FOR CONSTRUCTION	17.11.2023



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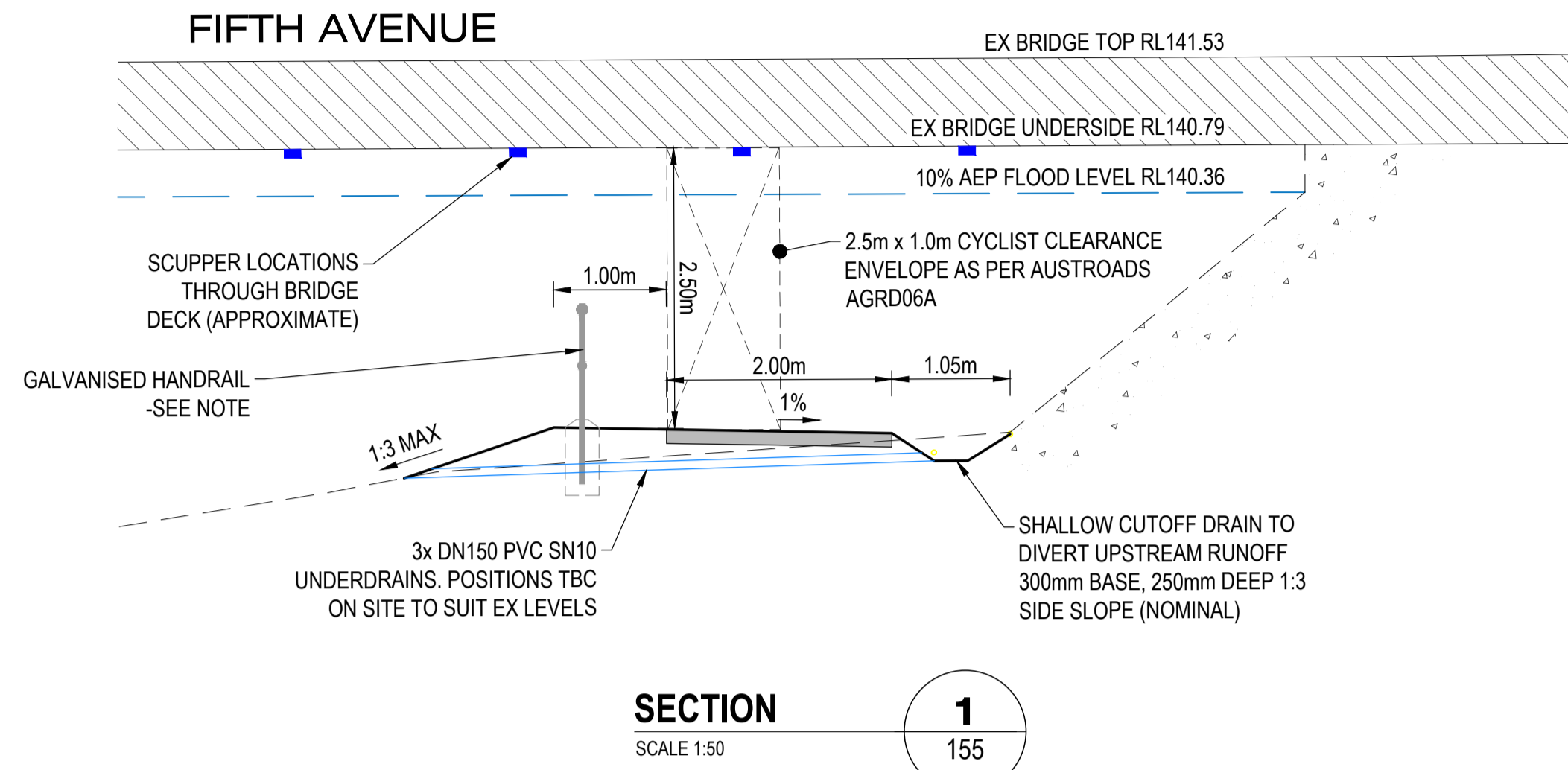
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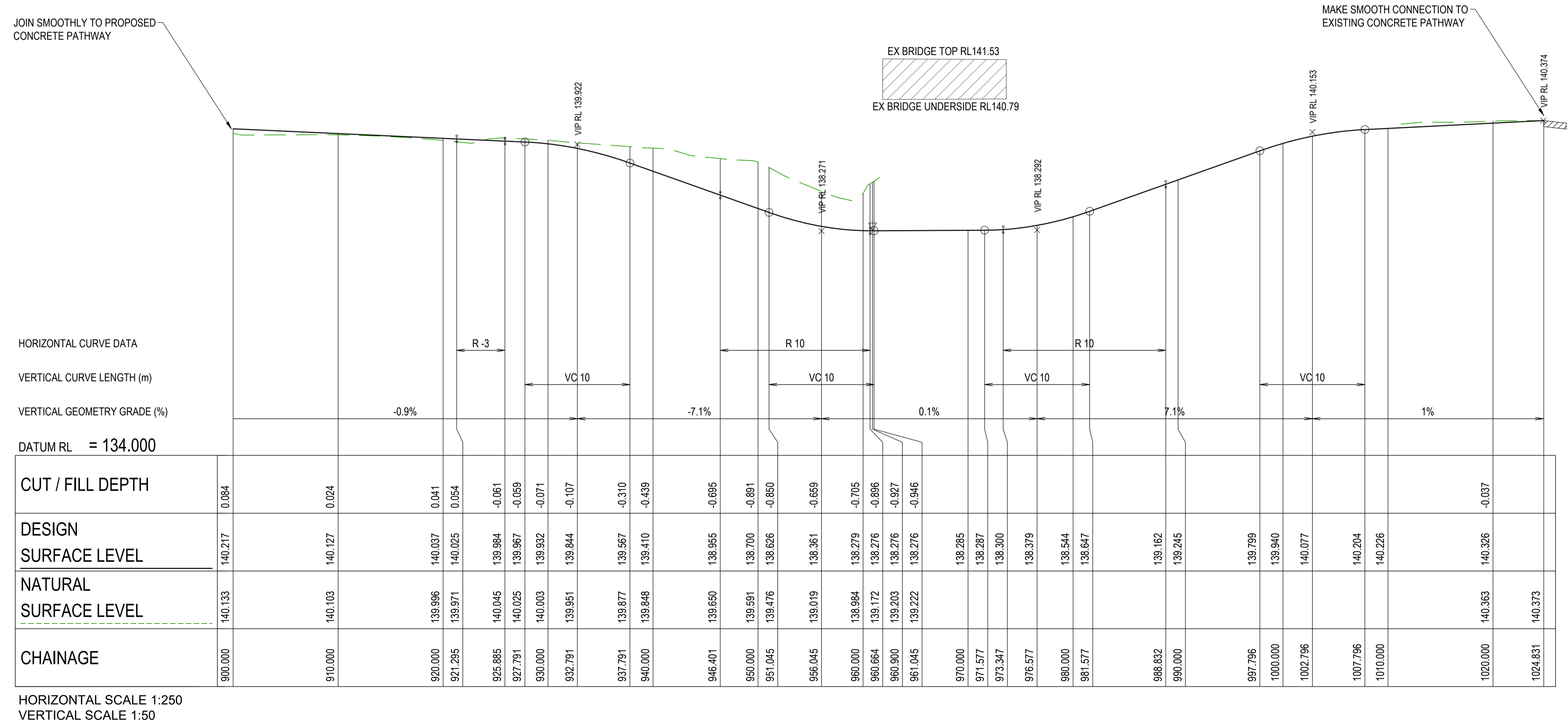
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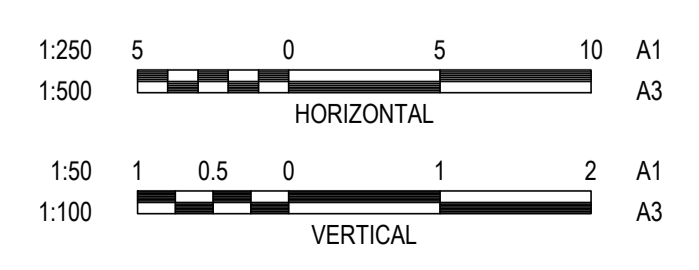
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS FOOTPATH LAYOUT PLAN 6 OF 6			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-155	53 OF 85	1



HANDRAIL NOTES:
GALVANISED HANDRAIL (WEBFORGE MONOWILLS, OR SIMILAR APPROVED) TO BE GENERALLY IN ACCORDANCE WITH STANDARD DRAWINGS CMDG-G-014, TYPE 2 TUBULAR STEEL FENCE WITH SLEEVE POST FOOTINGS.



No.	Revision	Date
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
FOOTPATH UNDERPASS LONGITUDINAL SECTION
AND CROSS SECTION

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-156	54 OF 85	1

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SETOUT TABLE - PROPOSED FOOTPATH

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	204781.003	7238324.820	7°20'53.55"			
IP 2	6.694	204781.859	7238331.459				
IP 3	11.039	204782.801	7238335.717		R = 42.867	8.690	11°36'54.69°
IP 4	15.384	204784.580	7238339.697				
IP 5	23.272	204788.308	7238348.036		R = 12.500	15.776	72°18'46.31°
IP 6	31.160	204797.385	7238347.018				
TC	57.899	204823.957	7238344.038	96°23'53.16"			
IP 7	64.865	204830.912	7238343.258		R = 59.000	13.931	13°31'44.34°
IP 8	71.831	204837.491	7238340.873				
IP 9	78.894	204843.977	7238338.078				
IP 10	83.473	204848.069	7238336.003		R = 59.962	9.158	8°45'03.30°
IP 11	88.052	204851.797	7238333.329				
IP 12	145.729	204898.647	7238299.686				
IP 13	151.941	204903.818	7238296.231		R = -101.000	12.424	7°02'52.93°
CC	158.153	204909.375	7238293.436	116°41'52.48°			
IP 14	173.630	204923.316	7238286.426		R = 99.000	30.954	17°54'51.67°
IP 15	189.107	204934.424	7238275.467				
IP 16	198.784	204940.966	7238268.311		R = -127.112	19.354	8°43'25.97°
IP 17	208.461	204948.518	7238262.229				
IP 18	208.551	204948.588	7238262.173		R = -2.000	0.179	5°07'53.16°
IP 19	208.640	204948.662	7238262.124				
IP 20	212.874	204952.186	7238259.772		R = -101.000	8.467	4°48'12.06°
IP 21	217.107	204955.895	7238257.725				
IP 22	222.961	204961.025	7238254.892		R = 99.000	11.707	6°46'30.55°
CT	228.814	204965.785	7238251.474	125°40'56.60°			
TC	260.401	204991.442	7238233.049	125°40'56.60°			
IP 23	271.849	205001.044	7238226.154		R = 37.300	22.895	35°10'09.34°
CT	283.297	205004.921	7238214.987	160°51'05.93°			
IP 24	301.504	205010.893	7238197.787				
IP 25	308.178	205017.554	7238198.199				
IP 26	312.849	205022.294	7238198.521		R = -21.008	9.344	25°29'00.98°
IP 27	317.521	205026.433	7238200.850				
IP 28	319.973	205028.577	7238202.041				
IP 29	330.986	205038.167	7238207.454				
IP 30	333.256	205040.146	7238208.567				
IP 31	335.838	205042.771	7238210.045		R = 4.000	5.164	73°58'16.40°
CT	338.420	205044.916	7238207.930	134°36'02.84°			
TC	340.328	205046.275	7238206.590	134°36'02.84°			
IP 32	342.345	205047.727	7238205.158		R = 11.000	4.033	21°00'30.28°
CC	344.361	205048.569	7238203.300	155°36'33.12°			
IP 33	354.348	205052.705	7238194.178		R = 108.000	19.974	10°35'47.62°
IP 34	364.336	205055.093	7238184.452				
IP 35	390.114	205060.440	7238159.234				
IP 36	399.177	205062.443	7238149.772		R = 21.000	18.127	49°27'26.99°
CC	408.241	205056.554	7238142.100	217°30'30.80°			
IP 37	416.677	205051.287	7238135.238		R = -31.000	16.871	31°10'56.40°
CC	425.112	205050.334	7238126.640	186°19'34.40°			
IP 38	429.475	205049.850	7238122.275		R = 31.000	8.725	16°07'36.69°
CC	433.838	205048.173	7238118.216	202°27'11.08°			
IP 39	440.533	205045.612	7238112.020		R = 106.000	13.390	7°14'16.33°

SETOUT TABLE - PROPOSED FOOTPATH

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
CT	447.228	205042.291	7238106.197	209°41'27.41°			
TC	458.840	205036.540	7238096.109	209°41'27.41°			
IP 40	462.809	205034.563	7238092.642		R = -31.000	7.938	14°40'17.59°
CT	466.778	205033.529	7238088.788	195°01'09.82°			
TC	506.535	205023.226	7238050.389	195°01'09.82°			
IP 41	509.987	205022.328	7238047.042		R = 31.000	6.903	12°45'31.10°
CT	513.438	205020.713	7238043.975	207°46'40.92°			
TC	605.861	204977.639	7237962.203	207°46'40.92°			
IP 42	607.000	204977.108	7237961.194		R = 16.000	2.277	8°09'19.51°
CT	608.138	204976.438	7237960.270	215°56'00.42°			
TC	642.536	204956.252	7237932.419	215°56'00.42°			
IP 43	644.326	204955.198	7237930.965		R = -19.000	3.581	10°47'59.96°
CT	646.117	204954.436	7237929.339	205°08'00.47°			
TC	667.144	204945.505	7237910.303	205°08'00.47°			
IP 44	671.425	204943.655	7237906.360		R = -19.000	8.562	25°49'06.37°
CT	675.706	204943.707	7237902.006	179°18'54.09°			
TC	685.907	204943.829	7237891.805	179°18'54.09°			
IP 45	687.303	204943.846	7237890.405		R = 16.000	2.793	10°00'00.00°
CT	688.699	204943.619	7237889.024	189°18'54.09°			
TC	741.253	204935.113	7237837.163	189°18'54.09°			
IP 46	744.949	204934.504	7237833.450		R = 16.000	7.391	26°28'05.20°
CT	748.644	204932.304	7237830.398	215°46'59.29°			
TC	753.291	204929.586	7237826.628	215°46'59.29°			
IP 47	757.771	204926.927	7237822.937		R = 21.000	8.960	24°26'43.54°
CT	762.251	204922.978	7237820.679	240°13'42.83°			
TC	771.507	204914.944	7237816.083	240°13'42.83°			
IP 48	777.693	204909.491	7237812.964		R = -29.000	12.373	24°26'43.54°
CT	783.879	204905.818	7237807.867	215°46'59.29°			
IP 49	792.934	204900.524	7237800.522				
IP 50	798.078	204897.373	7237796.151		R = -14.000	10.287	42°06'02.23°
IP 51	803.221	204897.966	7237790.795				
TC	808.767	204898.576	7237785.283	173°40'41.80°			
IP 52	810.218	204898.737	7237783.833		R = 11.000	2.902	15°06'57.48°
CT	811.669	204898.514	7237782.390	188°47'39.28°			
TC	831.143	204895.537	7237763.145	188°47'39.28°			
IP 53	833.614	204895.154	7237760.674		R = 13.000	4.941	21°46'29.20°
CT	836.084	204893.883	7237758.521	210°34'08.48°			
TC	864.097	204879.636	7237734.402	210°34'08.48°			
IP 54	867.838	204877.714	7237731.148		R = -21.712	7.483	19°44'45.15°
CT	871.579	204877.005	7237727.436	190°49'23.33°			
TC	921.295	204867.669	7237678.605	190°49'23.33°			
IP 55	923.590	204867.128	7237675.776		R = -3.000	4.590	87°39'32.00°
CT	925.885	204869.933	7237675.120	103°09'51.33°			
TC	946.401	204889.909	7237670.448	103°09'51.33°			
IP 56	953.532	204898.332	7237668.478		R = 10.000	14.264	81°43'29.26°
CT	960.664	204897.595	7237659.858	184°53'20.59°			
TC	973.347	204896.514	7237647.222	184°53'20.59°			
IP 57	981.089	204895.681	7237637.478		R = 10.000	15.485	88°43'10.99°
CT	988.832	204885.921	7237638.094	273°36'31.58°			
IP 58	1024.831	204849.993	7237640.360	273°36'31.58°			

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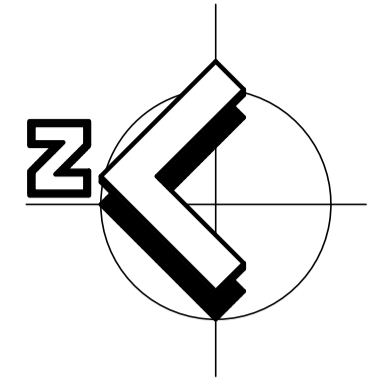
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
FOOTPATH SETOUT TABLES

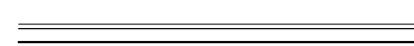
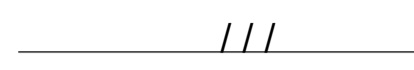
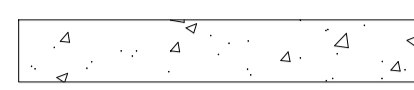

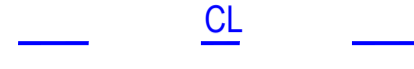









Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-157	55 OF 85	1

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1	ISSUE FOR CONSTRUCTION	17.11.2023

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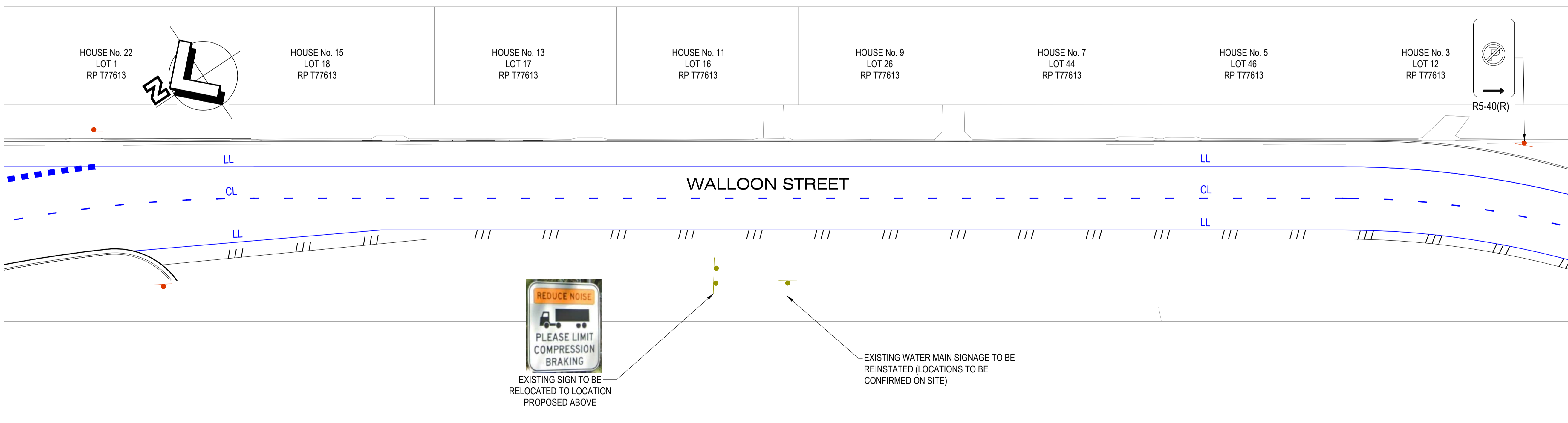
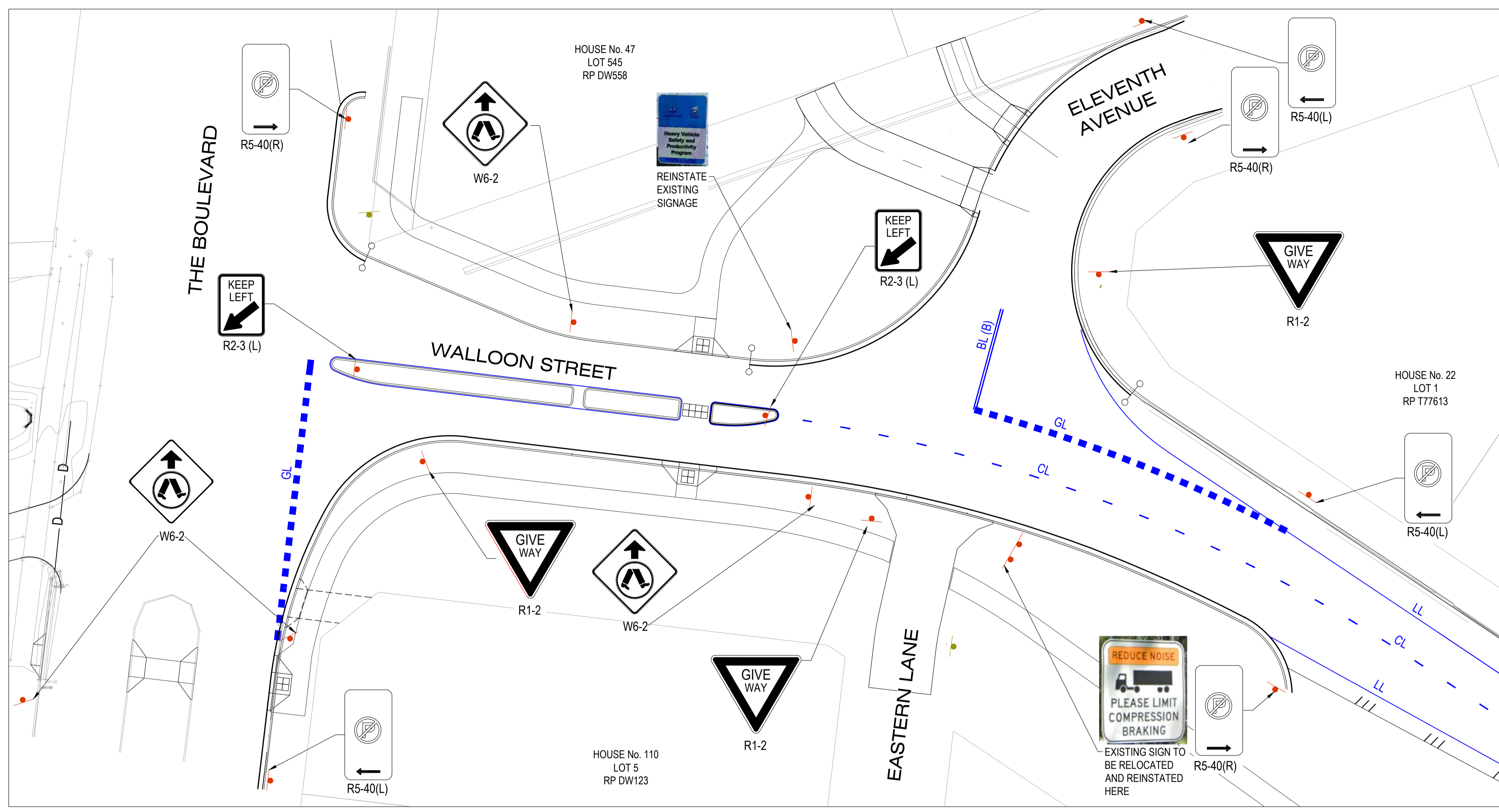


LEGEND

-  PROPOSED KERB
-  PROPOSED ROAD SHOULDER
-  PROPOSED FOOTPATH COUNCIL SETOUT OPTION
-  PROPOSED GIVE WAY LINE
-  PROPOSED CONTINUITY LINE
-  PROPOSED BARRIER LINE - BOTH DIRECTIONS
-  PROPOSED UNBROKEN LANE LINE - CONTINUOUS
-  PROPOSED UNBROKEN DOUBLE
-  LANE LINE - CONTINUOUS
-  PROPOSED EDGE LINE - CONTINUOUS
-  PROPOSED DIVIDING LINE - CONTINUOUS
-  PROPOSED ROAD SIGN
-  EXISTING ROAD SIGN
-  EXISTING LINEMARKING

NOTES:

1. ALL SIGNS AND LINE MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES AND CDMG STANDARDS.
2. TRAFFIC POSTS SHALL BE IN ACCORDANCE WITH CDMG STANDARDS.
3. CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF DRIVEWAYS AND FOOTPATHS.



No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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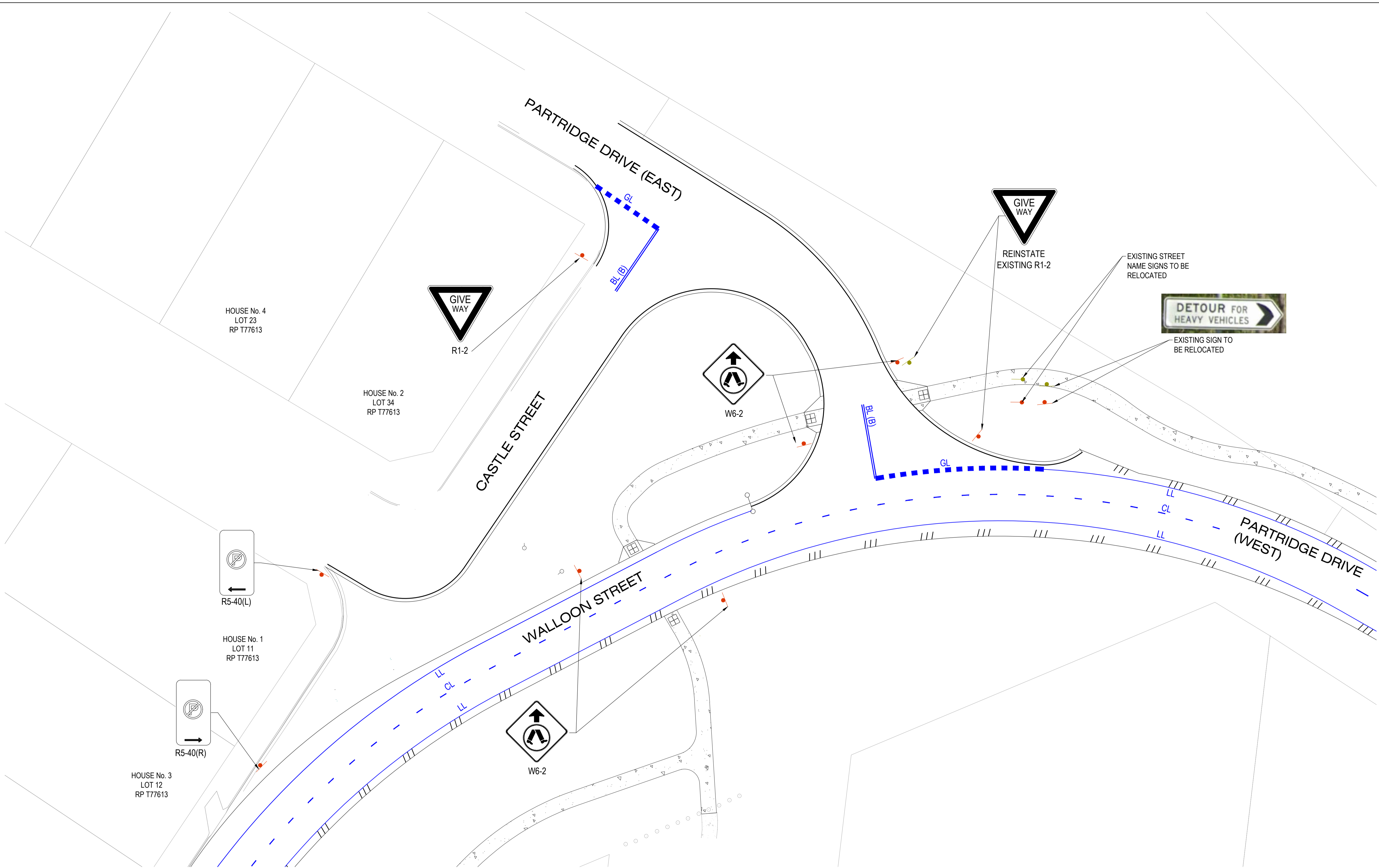
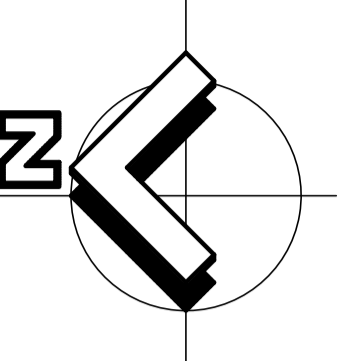

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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 SIGNS AND PAVEMENT MARKING PLAN SHEET 1 OF 3

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-160	56 OF 85	1

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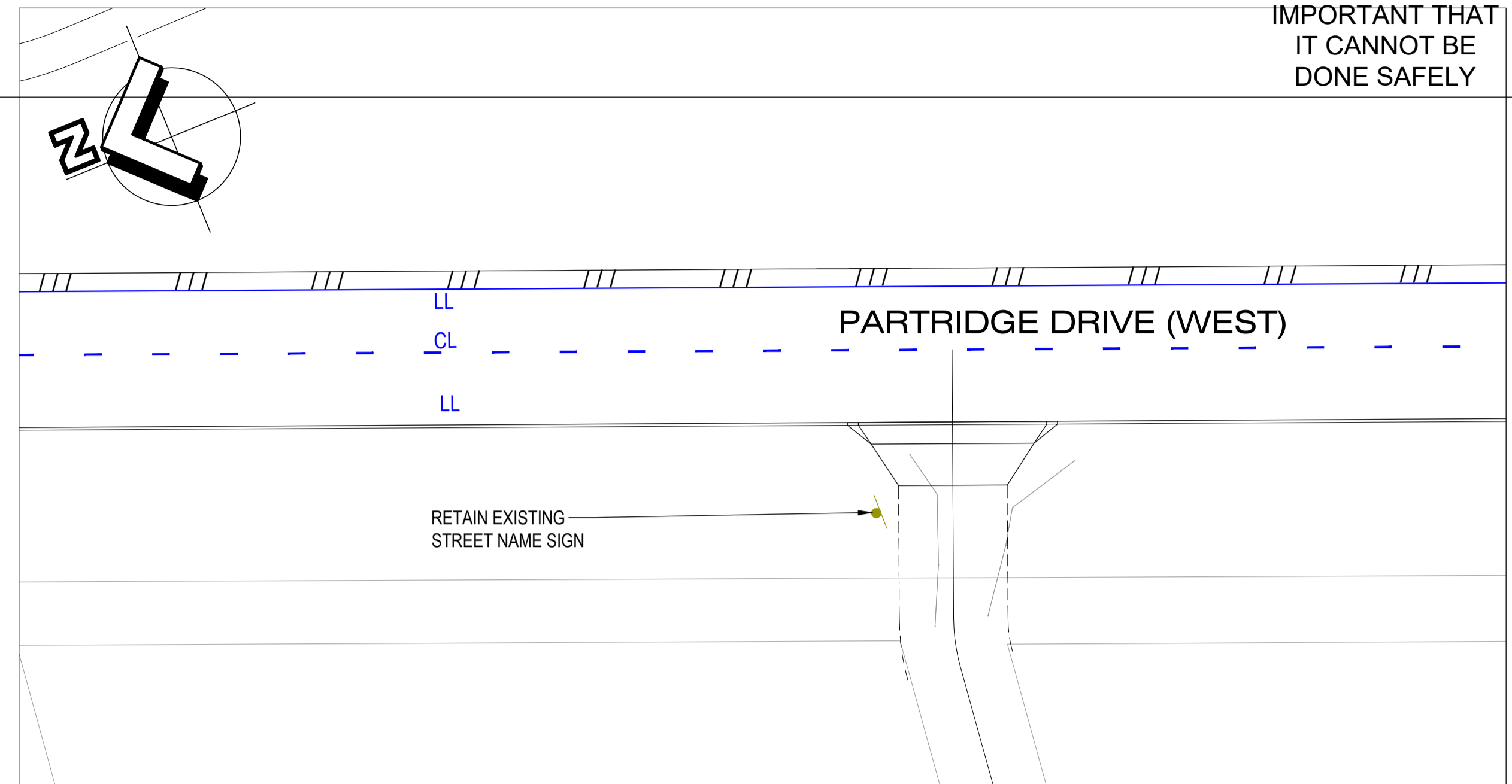
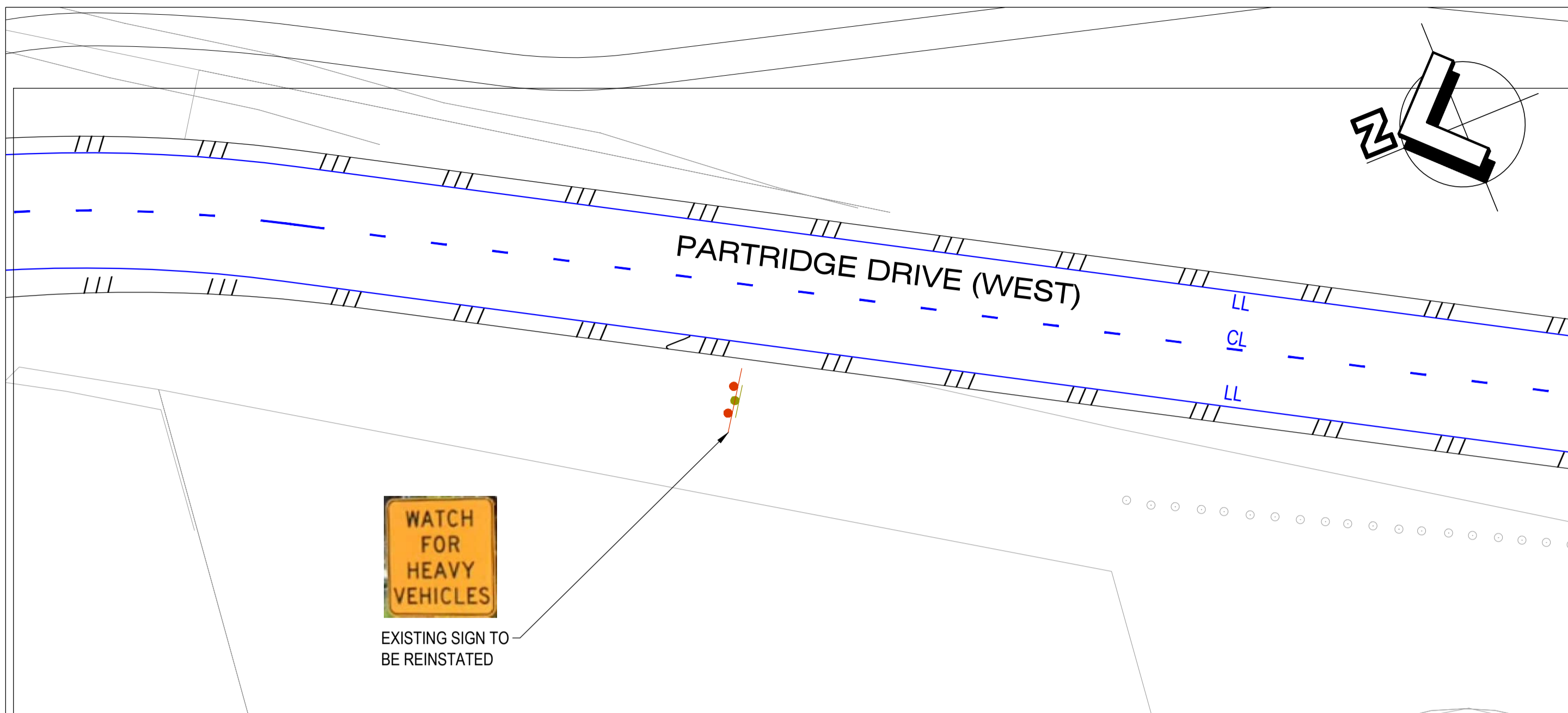
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS SIGNS AND PAVEMENT MARKING PLAN SHEET 2 OF 3			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-161	57 OF 85	1

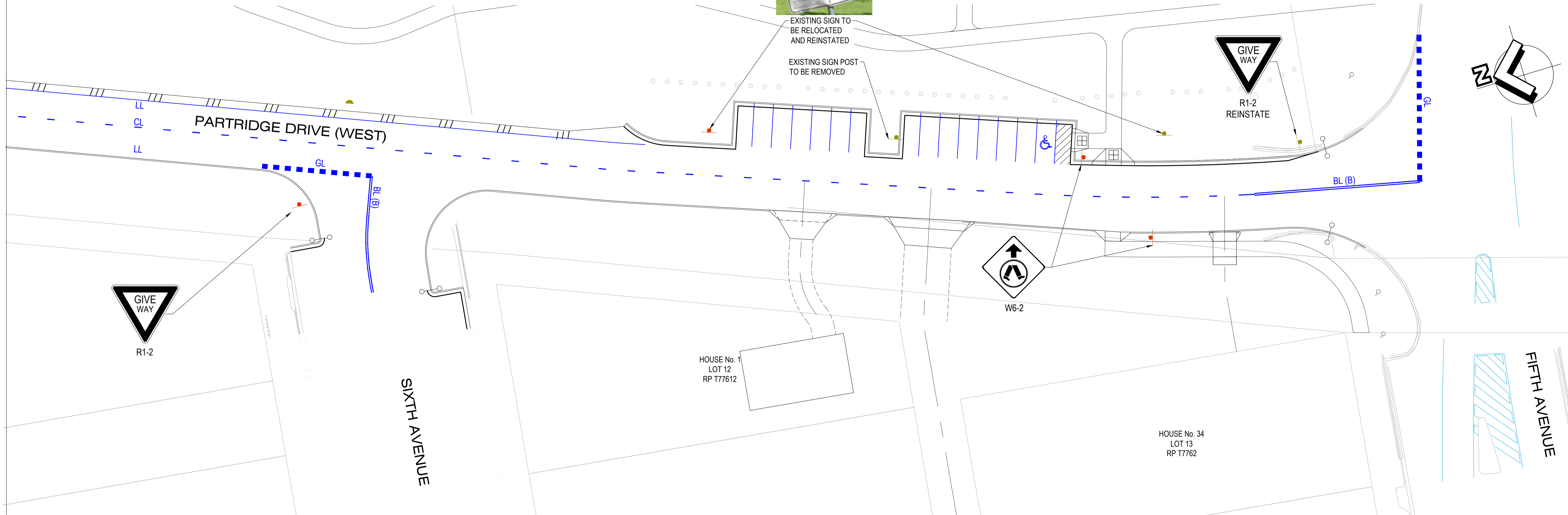
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FOR FULL ROAD CONTINUATION REFER TO ROADWORKS AND DRAINAGE PLANS



EXISTING SIGN TO BE RELOCATED AND REINSTATED
EXISTING SIGN POST TO BE REMOVED



No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS SIGNS AND PAVEMENT MARKING PLAN SHEET 3 OF 3			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-162	58 OF 85	1

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PAVEMENT DESIGN - FLEXIBLE PAVEMENTS (ROADWAYS)

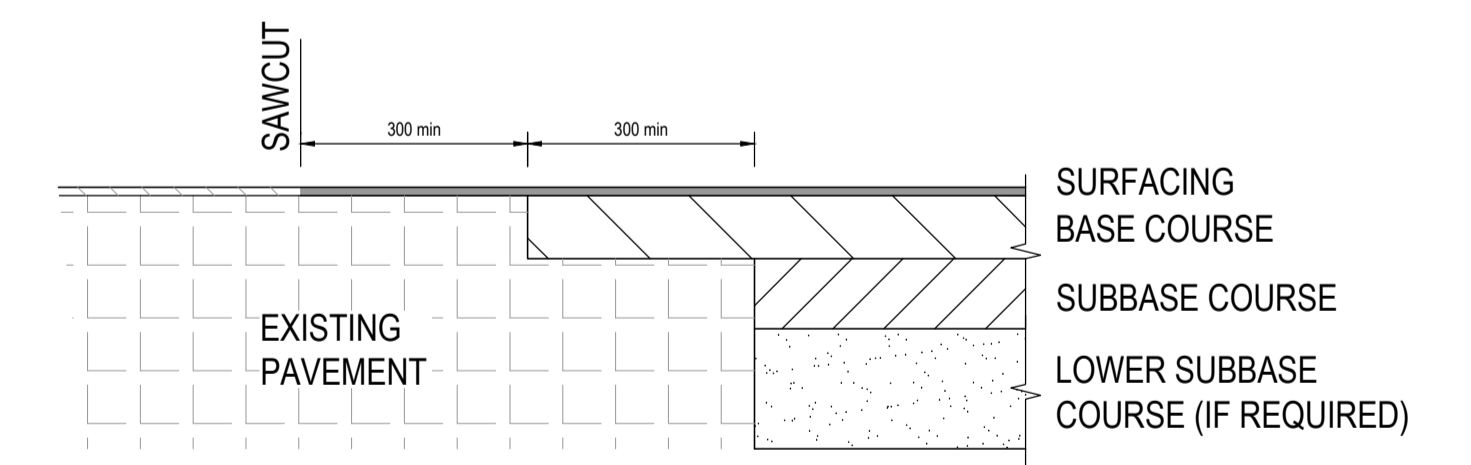
LAYER / TYPE	THICKNESS (mm)
SURFACING (AC14 ASPHALT) THICKNESS (mm)	50
SINGLE SEAL / SAMI - C170 SINGLE / WATERPROOF SEAL ⁽¹⁾	7
BASE COURSE (TYPE 2.1) ⁽²⁾	150
SUBBASE (TYPE 2.3)	150
STRENGTHENING AND REFLECTIVE CRACK RESISTANCE	GEOGRID ⁽³⁾
SUBGRADE INSITU STABILISATION (5% NOMINAL) DESIGN SUBGRADE CBR 6%.	300 ⁽⁴⁾
SUBGRADE SWELL POTENTIAL	CBR 1.5% > 5.0%
TOTAL PAVEMENT (mm) (incl. SURFACING)	600

1. THE SINGLE SEAL / SAMI IS CONSIDERED NON-TRAFFICABLE DURING CONSTRUCTION. THE FINAL NOMINATED BITUMEN GRADE AND APPLICATION RATE OF THE PRIMER SHALL SUIT THE SITE CONDITIONS.
2. SHOULD SUPPLY OF CBR 80 MATERIAL BE UNAVAILABLE THEN CBR 60 MATERIAL MAY BE USED (UPON VERIFICATION OF THE PAVEMENT DESIGN)
3. GEOGRID (TENSAR NX750 GEOGRID OR SIMILAR APPROVED)
4. STABILISATION BY % MASS OF TRIPLE BLEND 40% CEMENT, 30% LIME, 30% FLY ASH TO FULL WIDTH OF THE EMBANKMENT.
5. GEOTECHNICAL TESTING RESULTS WILL BE REQUIRED FOR COVER TREATMENT ON EXPANSIVE SOILS PRIOR TO PROOF ROLLING AND APPROVAL OF THE SUBGRADE.

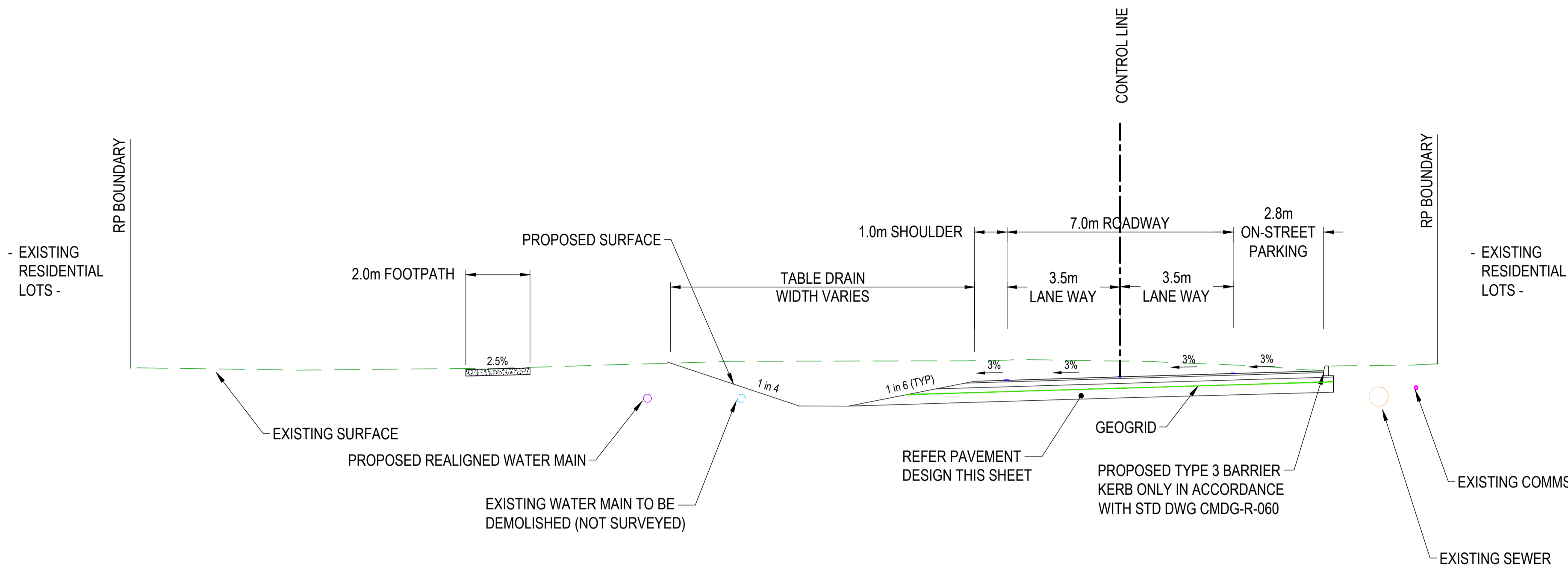
PAVEMENT DESIGN - RIGID PAVEMENTS (LANE- AND DRIVEWAYS)

LAYER / TYPE	THICKNESS
CONCRETE PAVEMENT (N32, SL82 MESH REINFORCED)	150
SUBGRADE INSITU STABILISATION (5% NOMINAL) DESIGN SUBGRADE CBR 6%	300 ⁽²⁾
GEOSYNTHETIC SEPARATION OVER SUBGRADE (EXPANSIVE SANDY SILTY CLAYS)	GEOSYNTHETIC ⁽¹⁾
SUBGRADE SWELL POTENTIAL	CBR 1.5% > 5.0%
TOTAL PAVEMENT (mm) (incl. SURFACING)	450

1. GEOSYNTHETIC MATERIAL TO BE BIDIM A24 (OR SIMILAR APPROVED).
2. GEOTECHNICAL TESTING RESULTS WILL BE REQUIRED FOR COVER TREATMENT ON EXPANSIVE SOILS PRIOR TO PROOF ROLLING AND APPROVAL OF THE SUBGRADE.

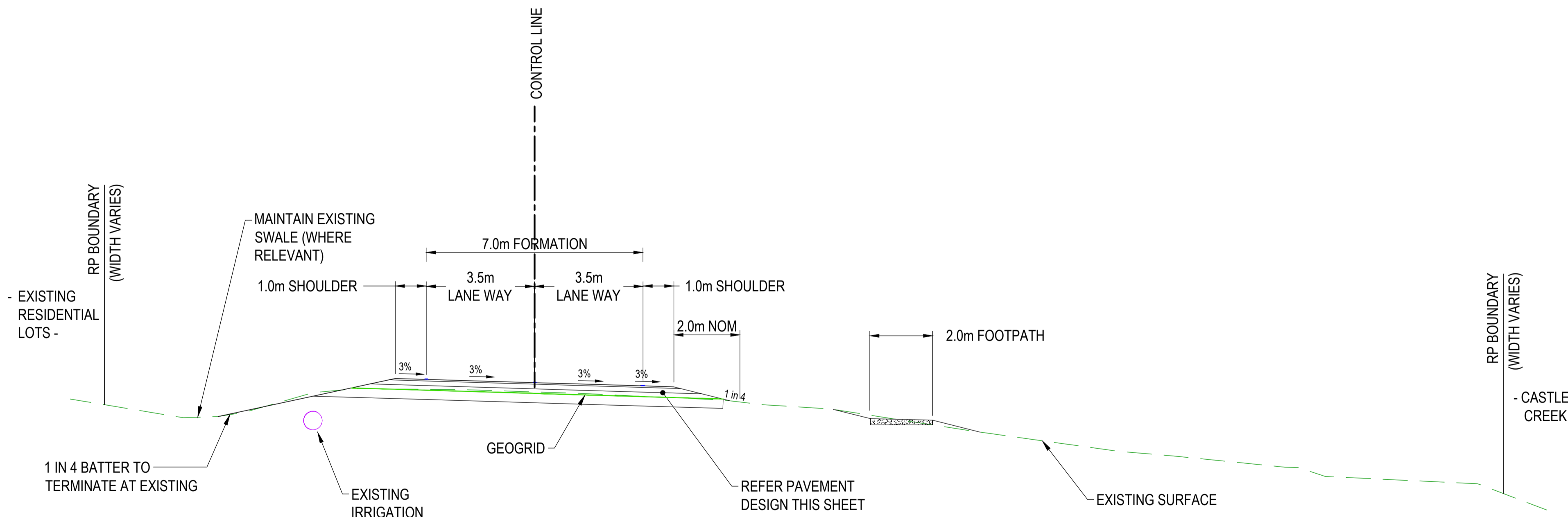


PAVEMENT CUT BACK DETAIL
N.T.S



TYPICAL SECTION - WALLOON ROAD (CH0.000 - 348.779)

SCALE 1:100



TYPICAL SECTION - PARTRIDGE ROAD (WEST) (CH348.779 - END)

SCALE 1:100

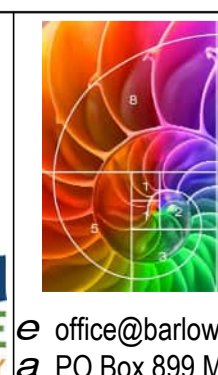
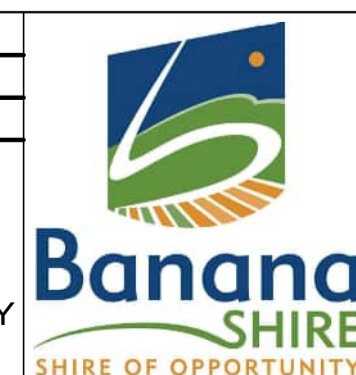
CAUTION - EXISTING SERVICES
THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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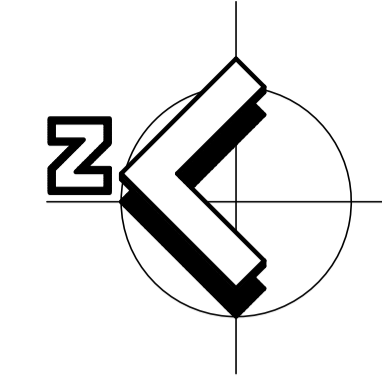
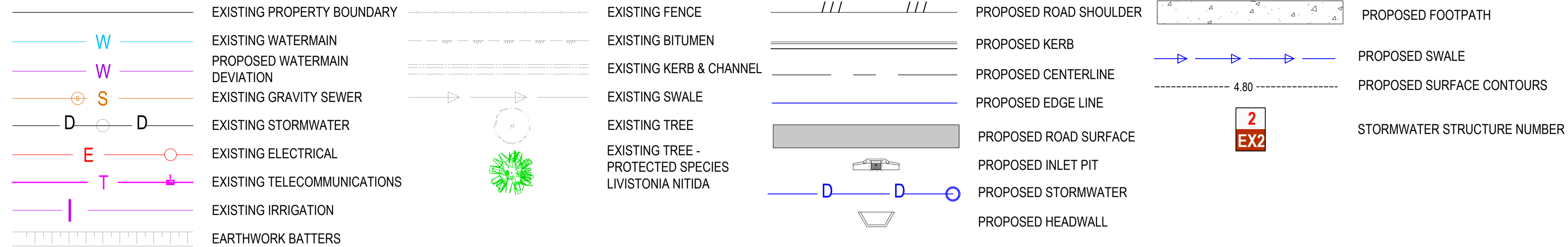
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
ROADWORKS TYPICAL DETAILS

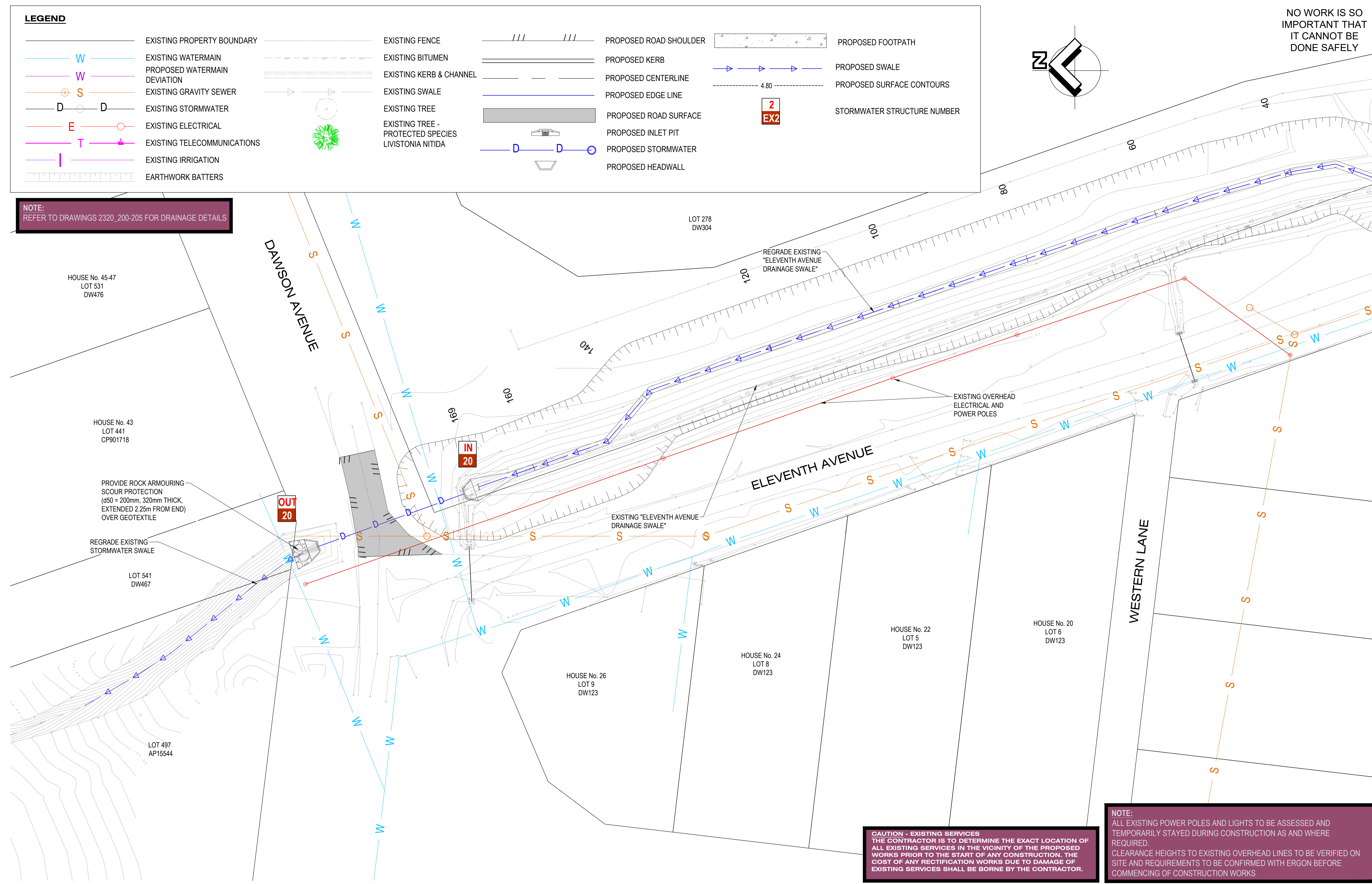
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-170	59 OF 85	1

LEGEND



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

NOTE:
REFER TO DRAWINGS 2320_200-205 FOR DRAINAGE DETAILS



HOUSE No. 45-47
LOT 531
DW476

HOUSE No. 43
LOT 441
CP901718

PROVIDE ROCK ARMOURING SCOUR PROTECTION (d50 = 200mm, 320mm THICK, EXTENDED 2.25m FROM END) OVER GEOTEXTILE

REGRADE EXISTING STORMWATER SWALE

LOT 541
DW467

LOT 497
AP15544

LOT 278
DW304

ELEVENTH AVENUE

EXISTING "ELEVENTH AVENUE DRAINAGE SWALE"

EXISTING OVERHEAD ELECTRICAL AND POWER POLES

HOUSE No. 26
LOT 9
DW123

HOUSE No. 24
LOT 8
DW123

HOUSE No. 22
LOT 5
DW123

HOUSE No. 20
LOT 6
DW123

WESTERN LANE

CAUTION - EXISTING SERVICES
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NOTE:
ALL EXISTING POWER POLES AND LIGHTS TO BE ASSESSED AND TEMPORARILY STAYED DURING CONSTRUCTION AS AND WHERE REQUIRED.
CLEARANCE HEIGHTS TO EXISTING OVERHEAD LINES TO BE VERIFIED ON SITE AND REQUIREMENTS TO BE CONFIRMED WITH ERGON BEFORE COMMENCING OF CONSTRUCTION WORKS



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Director: TONY SHELLEY
(RPEQ 7736)

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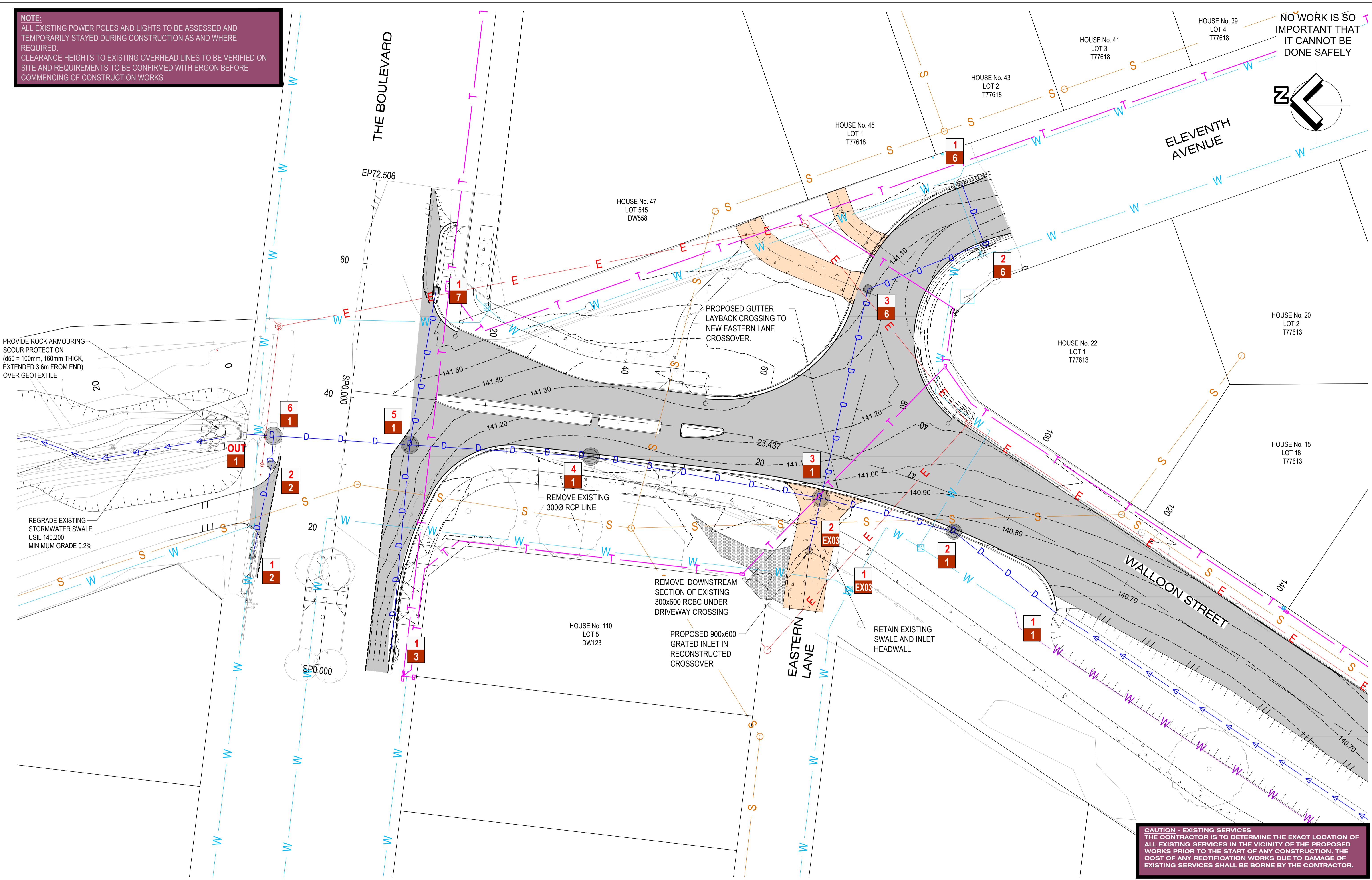
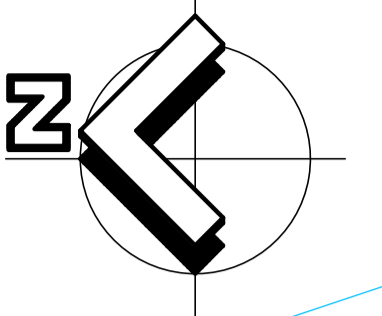
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
DRAINAGE LAYOUT PLAN SHEET 1 OF 7

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-200	60 OF 85	1

NOTE:
 ALL EXISTING POWER POLES AND LIGHTS TO BE ASSESSED AND TEMPORARILY STAYED DURING CONSTRUCTION AS AND WHERE REQUIRED.
 CLEARANCE HEIGHTS TO EXISTING OVERHEAD LINES TO BE VERIFIED ON SITE AND REQUIREMENTS TO BE CONFIRMED WITH ERGON BEFORE COMMENCING OF CONSTRUCTION WORKS

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



PROVIDE ROCK ARMOURING SCOUR PROTECTION (d50 = 100mm, 160mm THICK, EXTENDED 3.6m FROM END) OVER GEOTEXTILE

REGRADE EXISTING STORMWATER SWALE US1L 140.200 MINIMUM GRADE 0.2%

CAUTION - EXISTING SERVICES
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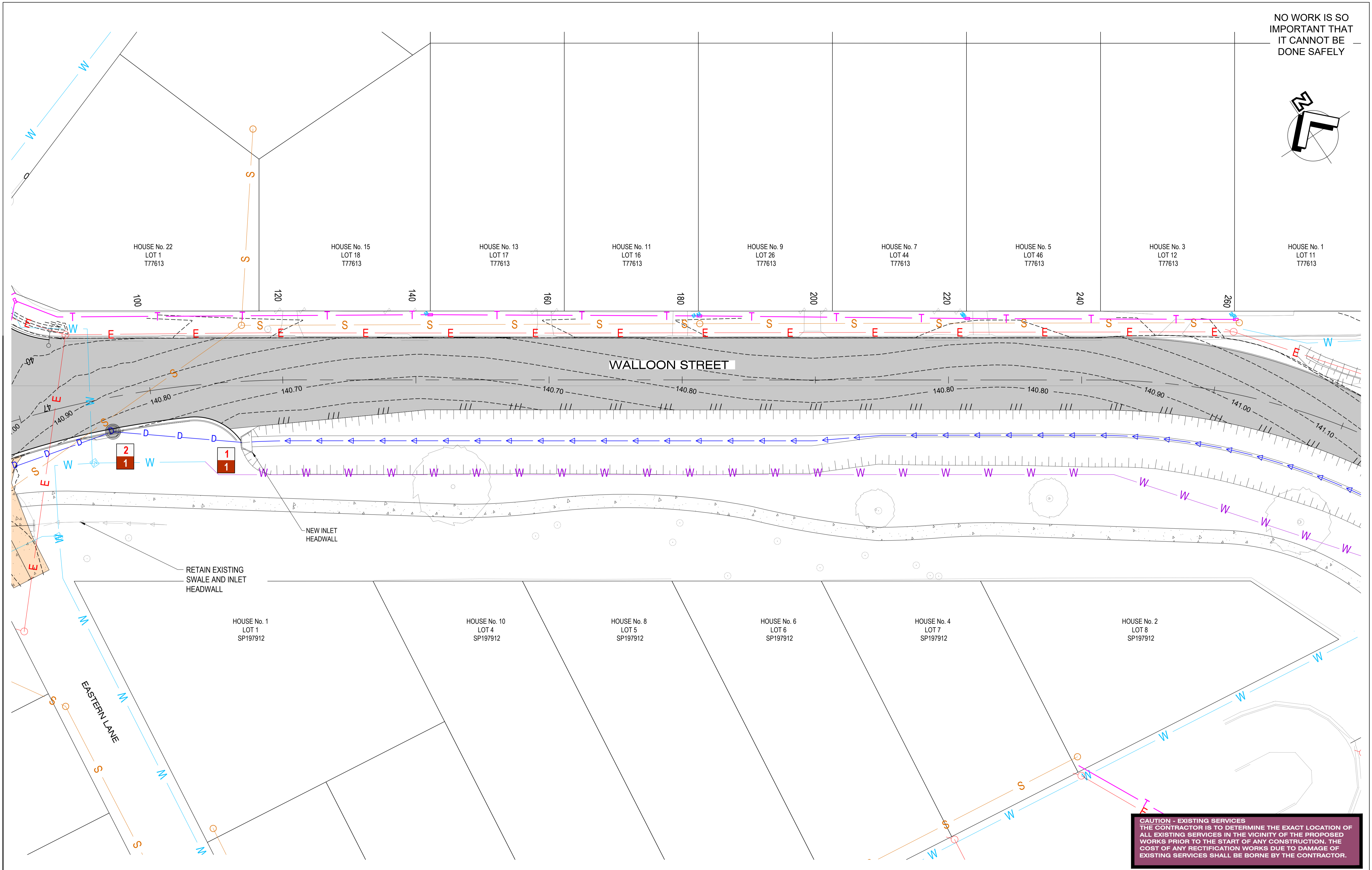
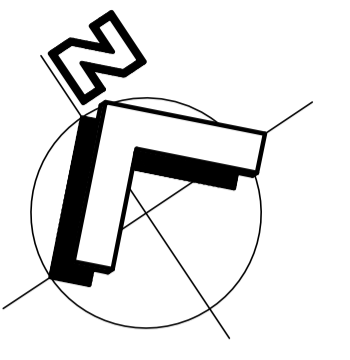
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS DRAINAGE LAYOUT PLAN SHEET 2 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-201	61 OF 85	1

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CAUTION - EXISTING SERVICES
 THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

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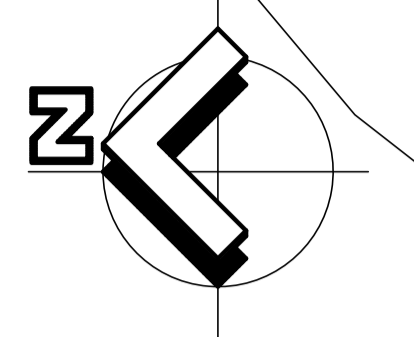
DESIGN CS
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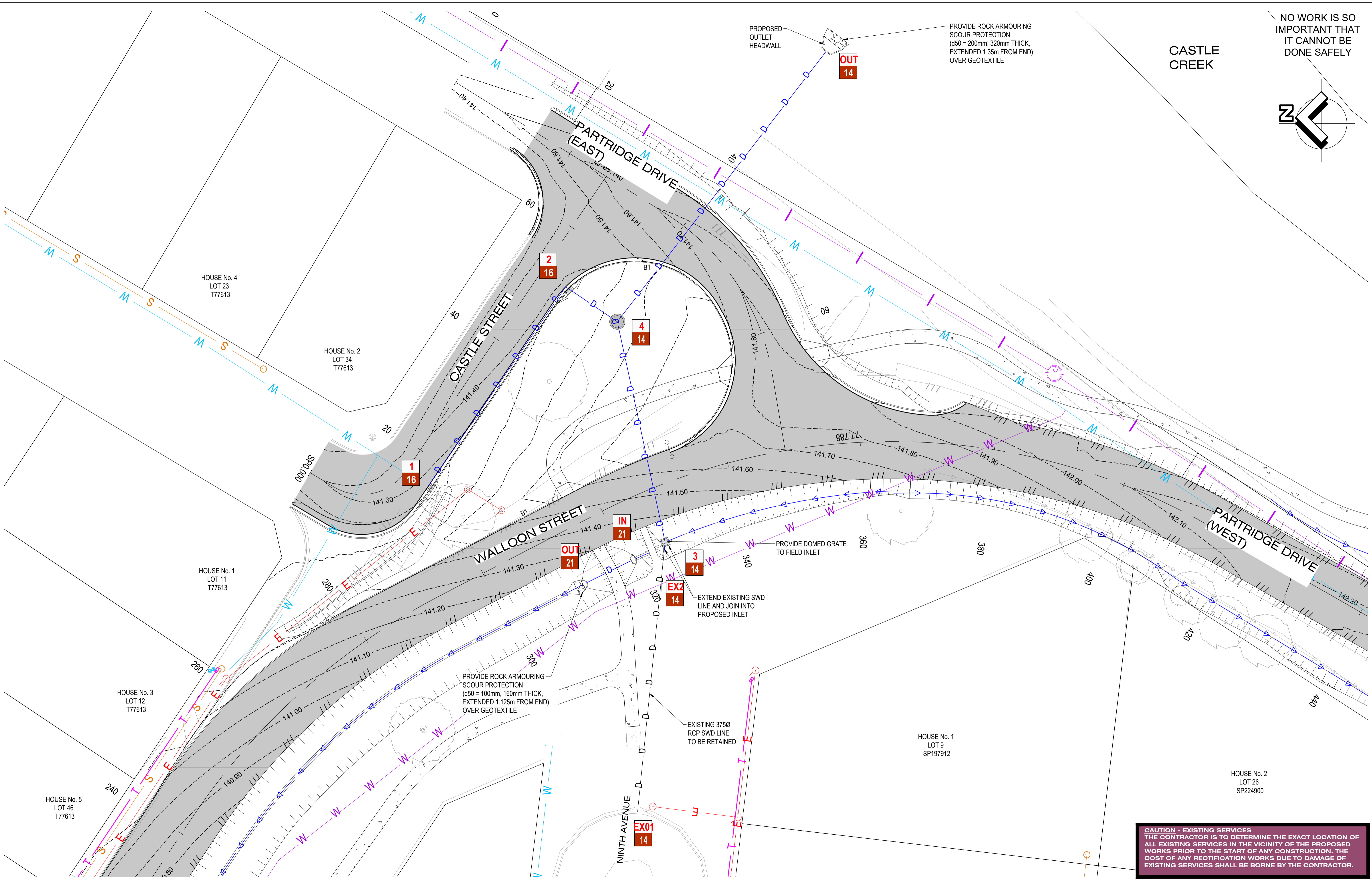
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS DRAINAGE LAYOUT PLAN SHEET 3 OF 7	
Scale AS SHOWN	Dwg. No. 2320-202
Sheet 62 OF 85	Issue 1

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CASTLE CREEK



CAUTION - EXISTING SERVICES
 THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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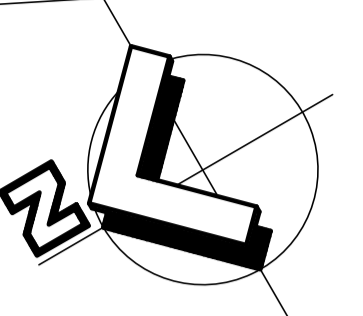
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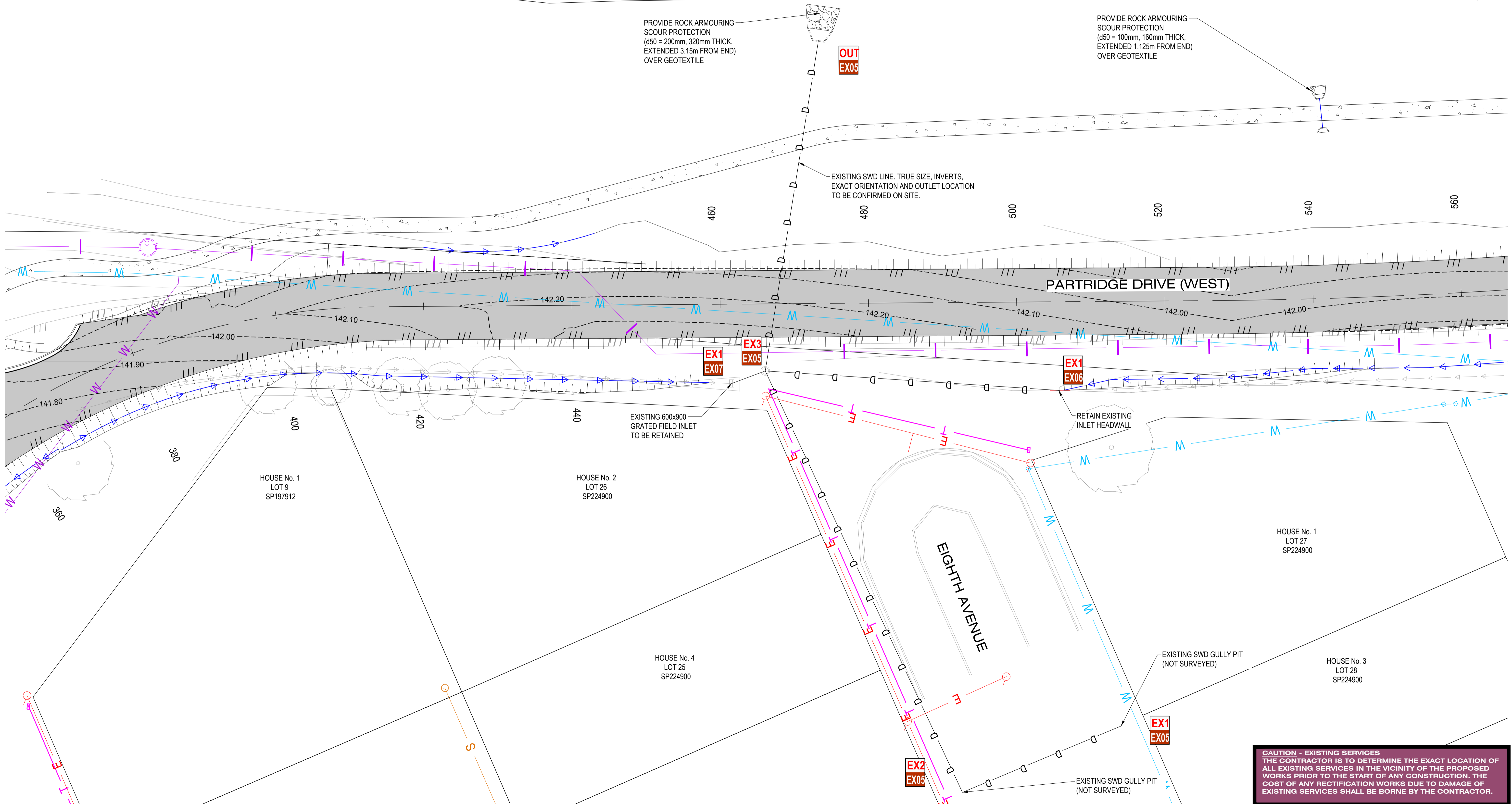
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS DRAINAGE LAYOUT PLAN SHEET 4 OF 7	
Scale AS SHOWN	Dwg. No. 2320-203
Sheet 63 OF 85	Issue 1

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



CASTLE CREEK



PROVIDE ROCK ARMOURING SCOUR PROTECTION (d50 = 200mm, 320mm THICK, EXTENDED 3.15m FROM END) OVER GEOTEXTILE

PROVIDE ROCK ARMOURING SCOUR PROTECTION (d50 = 100mm, 160mm THICK, EXTENDED 1.125m FROM END) OVER GEOTEXTILE

EXISTING SWD LINE. TRUE SIZE, INVERTS, EXACT ORIENTATION AND OUTLET LOCATION TO BE CONFIRMED ON SITE.

EXISTING 600x900 GRATED FIELD INLET TO BE RETAINED

RETAIN EXISTING INLET HEADWALL

EXISTING SWD GULLY PIT (NOT SURVEYED)

EXISTING SWD GULLY PIT (NOT SURVEYED)

CAUTION - EXISTING SERVICES
THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICES IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE START OF ANY CONSTRUCTION. THE COST OF ANY RECTIFICATION WORKS DUE TO DAMAGE OF EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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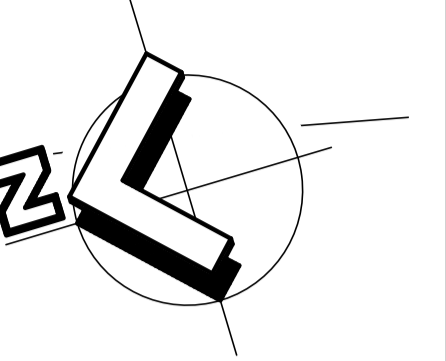


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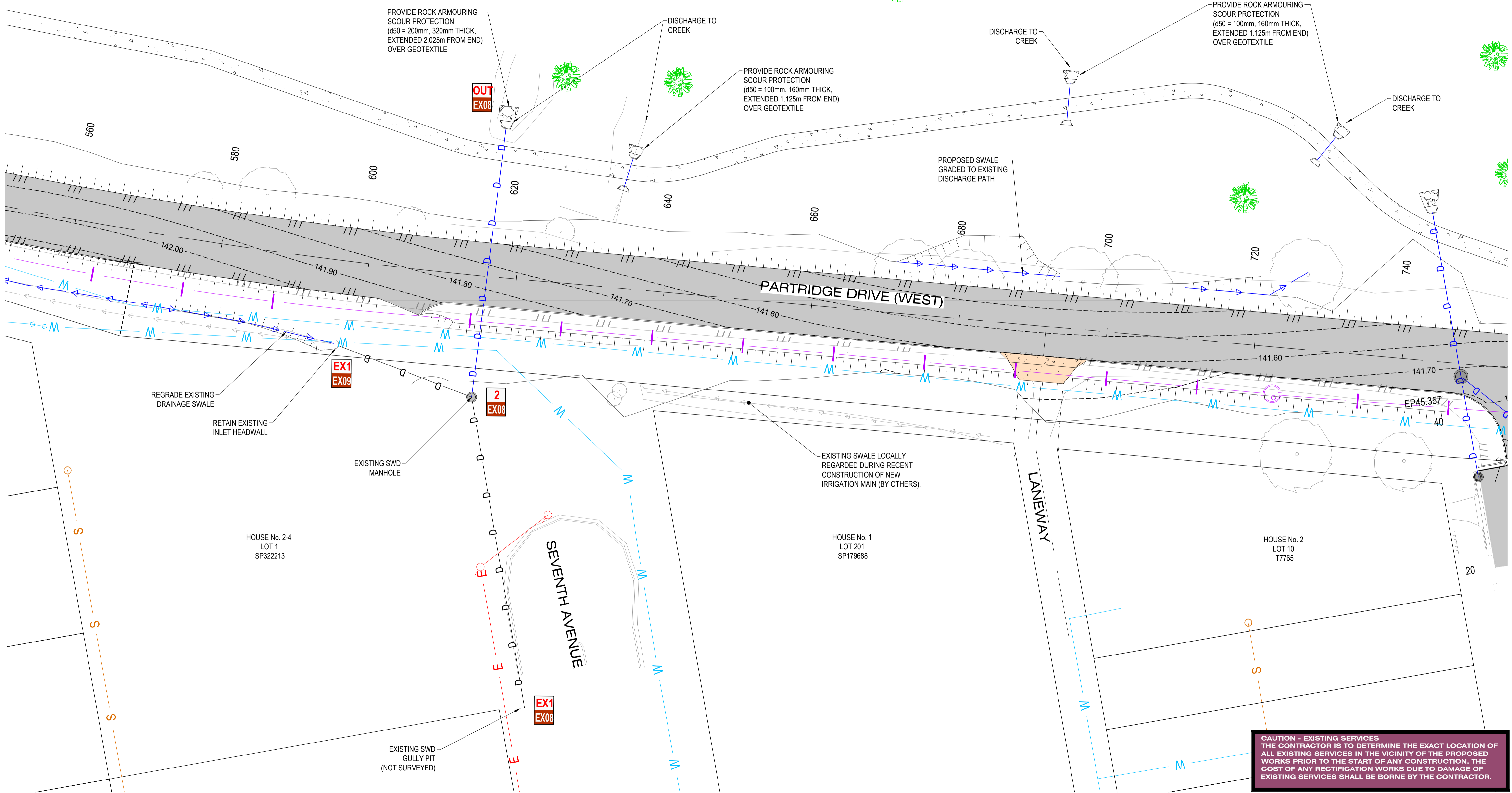
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS DRAINAGE LAYOUT PLAN SHEET 5 OF 7	
Scale AS SHOWN	Dwg. No. 2320-204
Sheet 64 OF 85	Issue 1

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CASTLE CREEK



No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 DRAINAGE LAYOUT PLAN SHEET 6 OF 7

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-205	65 OF 85	1

CAUTION - EXISTING SERVICES
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CASTLE

CREEK

PROVIDE 3 x 150Ø PVC DRAINAGE OUTLETS FROM CUT OFF DRAIN UNDERNEATH FOOTPATH AND OUTLETING TOWARDS WATERCOURSE. EXACT LEVELS TO BE DETERMINED ON SITE.

PROVIDE ROCK ARMOURING SCOUR PROTECTION (Ø50 = 200mm, 320mm THICK, EXTENDED 2.025m FROM END) OVER GEOTEXTILE

PROVIDE ROCK ARMOURING SCOUR PROTECTION (Ø50 = 100mm, 160mm THICK, EXTENDED 1.125m FROM END) OVER GEOTEXTILE

EXISTING SHADED SKATE PARK

EXISTING PICNIC SHELTER

PARTRIDGE DRIVE (WEST)

EXISTING BRIDGE

FIFTH AVENUE

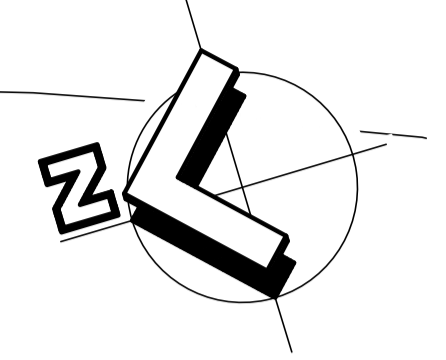
SIXTH AVENUE

HOUSE No. 1
LOT 12
T77612

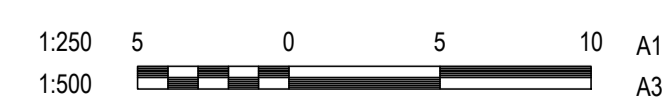
HOUSE No. 34
LOT 13
T7762

HOUSE No. 31
LOT 28
T7767

CAUTION - EXISTING SERVICES
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No.	Revision	Date
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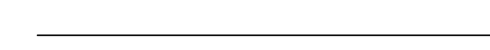
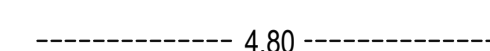




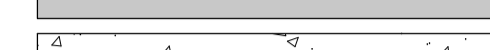
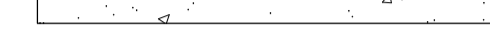
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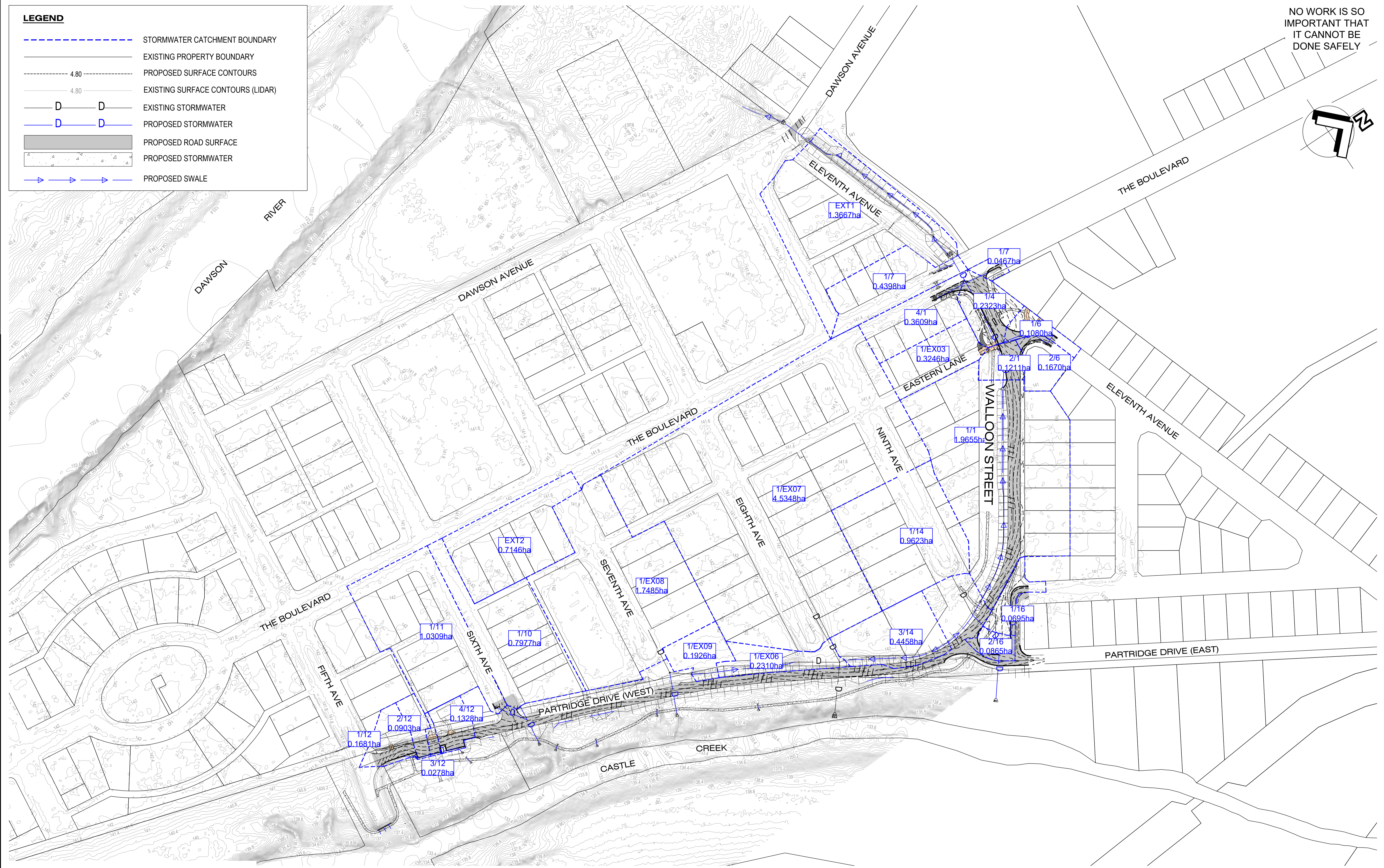
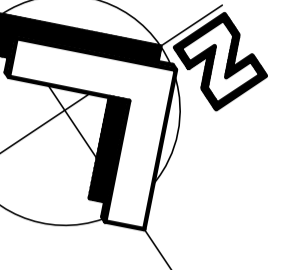
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS DRAINAGE LAYOUT PLAN SHEET 7 OF 7	
Scale AS SHOWN	Dwg. No. 2320-206
Sheet 66 OF 85	Issue 1

LEGEND

-  STORMWATER CATCHMENT BOUNDARY
-  EXISTING PROPERTY BOUNDARY
-  4.80 PROPOSED SURFACE CONTOURS
-  4.80 EXISTING SURFACE CONTOURS (LIDAR)
-  EXISTING STORMWATER
-  PROPOSED STORMWATER
-  PROPOSED ROAD SURFACE
-  PROPOSED STORMWATER
-  PROPOSED SWALE

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



1	ISSUE FOR CONSTRUCTION	20.11.2023
No.	Revision	Date



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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS DRAINAGE CATCHMENT LAYOUT PLAN	
Scale AS SHOWN	Dwg. No. 2320-207
Sheet 67 OF 85	Issue 1

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

STRUCTURE NAME	1/10	2/10	OUT/10
STRUCTURE DESCRIPTION	FIELD INLET 900x300 TYPE 2	MANHOLE 1800mm DIA	HEADWALL
PIPE SIZE (mm)	450x450	675	
PIPE CLASS	BC	RCP	
PIPE GRADE (%)	0.30%	0.50%	
PIPE SLOPE (1 in X)	333.3	200.0	
PIPE FLOW (cumecs)	0.268	0.609	
CAPACITY FLOW (cumecs)	0.199	0.595	
FULL PIPE VELOCITY (m/s)	1.32	1.70	
NORMAL DEPTH VELOCITY (m/s)	1.32	1.89	
DATUM RL	107.000		
HGL ELEVATION	141.705 141.266	141.131 140.013 138.624	
DEPTH TO INVERT	0.941	0.936 2.661	1.000 1.000
INVERT LEVEL OF DRAIN	140.841	140.800 138.075	139.000 139.000
DESIGN (& EXISTING) SURFACE LEVEL	141.752	141.736	139.477
SETOUT COORDINATES	204873.780E 7237813.473N	204887.282E 7237811.429N	204902.142E 7237809.649N
CHAINAGE	0.000	13.738	14.966 28.704

LINE 10

STRUCTURE NAME	1/11	2/10
STRUCTURE DESCRIPTION	ROAD PIT SAG	MANHOLE 1800mm DIA
PIPE SIZE (mm)	450x375	
PIPE CLASS	BC	
PIPE GRADE (%)	0.30%	
PIPE SLOPE (1 in X)	333.3	
PIPE FLOW (cumecs)	0.346	
CAPACITY FLOW (cumecs)	0.155	
FULL PIPE VELOCITY (m/s)	2.05	
NORMAL DEPTH VELOCITY (m/s)	2.05	
DATUM RL	108.000	
HGL ELEVATION	141.528 141.165	140.987 140.013 139.624
DEPTH TO INVERT	0.687	0.991 2.661
INVERT LEVEL OF DRAIN	140.841	140.745 139.075
DESIGN (& EXISTING) SURFACE LEVEL	141.529	141.736
SETOUT COORDINATES	204861.087E 7237793.104N	204887.282E 7237811.429N
CHAINAGE	0.000	31.968 31.968

LINE 11

STRUCTURE NAME	1/12	2/12	3/12	4/12	OUT/12
STRUCTURE DESCRIPTION	ROAD PIT SAG	FIELD INLET 900x300 TYPE 2	FIELD INLET 900x300 TYPE 2	ROAD PIT SAG	HEADWALL
PIPE SIZE (mm)	375	375	375	375	
PIPE CLASS	RCP	RCP	RCP	RCP	
PIPE GRADE (%)	0.35%	0.50%	0.50%	0.50%	
PIPE SLOPE (1 in X)	285.7	200.0	200.0	200.0	
PIPE FLOW (cumecs)	0.056	0.087	0.095	0.139	
CAPACITY FLOW (cumecs)	0.104	0.124	0.124	0.124	
FULL PIPE VELOCITY (m/s)	0.51	0.78	0.86	1.26	
NORMAL DEPTH VELOCITY (m/s)	0.96	1.21	1.24	1.26	
DATUM RL	108.000				
HGL ELEVATION	140.899 140.769	140.756 140.769	140.648 140.623	140.578 140.600 140.382	140.321
DEPTH TO INVERT	0.580	0.647	0.994 0.924	0.910 0.930	0.554 0.555
INVERT LEVEL OF DRAIN	140.362	140.316 140.295	140.188 140.168	140.091 140.071	140.046 140.045
DESIGN (& EXISTING) SURFACE LEVEL	140.923	140.964	141.092	141.001	140.450
SETOUT COORDINATES	204853.140E 7237701.413N	204861.274E 7237711.759N	204868.588E 7237732.059N	204873.843E 7237746.539N	204875.757E 7237747.139N
CHAINAGE	0.000	13.142 13.142	21.600 34.742	15.404 50.146	4.951 55.086

LINE 12

STRUCTURE NAME	EX/1/14	EX/2/14	3/14	4/14	OUT/14
STRUCTURE DESCRIPTION	ROAD PIT		FIELD INLET 900x300 TYPE 1 WITH DOME GRD	MANHOLE 1800mm DIA	HEADWALL
PIPE SIZE (mm)	375	375	600	(2x)450	
PIPE CLASS	RCP	RCP	RCP	RCP	
PIPE GRADE (%)	0.68%	0.68%	0.50%	0.50%	
PIPE SLOPE (1 in X)	147.8	147.9	200.0	200.0	
PIPE FLOW (cumecs)	0.323	0.319	0.569	0.628	
CAPACITY FLOW (cumecs)	0.144	0.144	0.434	0.403	
FULL PIPE VELOCITY (m/s)	2.93	2.89	2.01	1.97	
NORMAL DEPTH VELOCITY (m/s)	2.93	2.89	2.01	1.97	
DATUM RL	108.000				
HGL ELEVATION	141.002 141.002	141.002 140.844	140.831 140.831	140.831 140.831	139.350
DEPTH TO INVERT	0.974	1.650 1.650	1.075 1.428	2.406 2.426	1.252 1.253
INVERT LEVEL OF DRAIN	140.028	139.770 139.770	139.756 139.403	139.235 139.215	138.962 138.961
DESIGN (& EXISTING) SURFACE LEVEL	141.003	141.159	140.832	141.642	140.215
SETOUT COORDINATES	204950.242E 7238195.500N	205026.188E 7238192.673N	205030.251E 7238192.462N	205062.988E 7238199.572N	205103.186E 7238168.534N
CHAINAGE	0.000	38.145 38.145	2.074 40.219	33.509 73.728	50.754 124.483

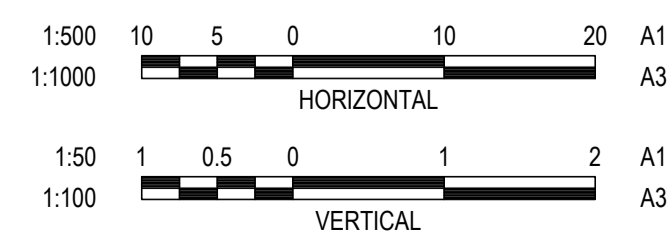
LINE 14

STRUCTURE NAME	1/16	2/16	4/14
STRUCTURE DESCRIPTION	ROAD PIT	ROAD PIT SAG	MANHOLE 1800mm DIA
PIPE SIZE (mm)	375	450	
PIPE CLASS	RCP	RCP	
PIPE GRADE (%)	0.50%	0.51%	
PIPE SLOPE (1 in X)	199.9	197.1	
PIPE FLOW (cumecs)	0.034	0.062	
CAPACITY FLOW (cumecs)	0.124	0.203	
FULL PIPE VELOCITY (m/s)	0.31	0.39	
NORMAL DEPTH VELOCITY (m/s)	0.96	1.12	
DATUM RL	108.000		
HGL ELEVATION	140.894 140.866	140.852 140.855 140.835	140.831
DEPTH TO INVERT	1.008	1.313 1.333	1.646 1.253
INVERT LEVEL OF DRAIN	140.242	140.062 140.042	139.965 139.215
DESIGN (& EXISTING) SURFACE LEVEL	141.250	141.376	141.642
SETOUT COORDINATES	205036.575E 7238227.669N	205066.197E 7238207.243N	205062.988E 7238199.572N
CHAINAGE	0.000	35.974 35.974	9.262 45.235

LINE 16

STRUCTURE NAME	IN/20	OUT/20
STRUCTURE DESCRIPTION	HEADWALL	HEADWALL
PIPE SIZE (mm)	1200x750	
PIPE CLASS	BC	
PIPE GRADE (%)	0.30%	
PIPE SLOPE (1 in X)	333.3	
PIPE FLOW (cumecs)	1.637	
CAPACITY FLOW (cumecs)	1.427	
FULL PIPE VELOCITY (m/s)	1.82	
NORMAL DEPTH VELOCITY (m/s)	1.98	
DATUM RL	108.000	
HGL ELEVATION	140.559 139.816	139.684
DEPTH TO INVERT	1.381	1.344
INVERT LEVEL OF DRAIN	139.178	139.109
DESIGN (& EXISTING) SURFACE LEVEL	139.728	139.230
SETOUT COORDINATES	204956.968E 7238304.389N	204574.258E 7238286.582N
CHAINAGE	0.000	23.035 23.035

LINE 20



DESIGN CS
DRAWN CS
DESIGN CHECK SS

Tony Shelley
Director: TONY SHELLEY
(RPEQ 7736)

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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 4

Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-211	69 OF 85	1

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

STRUCTURE NAME	IN/21	OUT/21
STRUCTURE DESCRIPTION	HEADWALL	HEADWALL

DESIGN SURFACE
EXISTING SURFACE

RETAIN EXISTING INLET HEADWALL AND CONSTRUCT NEW INLET PIT OVER EXISTING PIPE

PIPE SIZE (mm)	450	300
PIPE CLASS	RCP	BC
PIPE GRADE (%)	0.70%	0.15%
PIPE SLOPE (1 in X)	143.7	648.0
PIPE FLOW (cumecs)	0.000	0.000
CAPACITY FLOW (cumecs)	0.238	0.038
FULL PIPE VELOCITY (m/s)	0.00	0.00
NORMAL DEPTH VELOCITY (m/s)	0.00	0.00
DATUM RL	108.000	108.000
HGL ELEVATION	140.701	140.620
DEPTH TO INVERT	0.698	0.503
INVERT LEVEL OF DRAIN	140.701	140.620
DESIGN (& EXISTING) SURFACE LEVEL	140.924	140.812
SETOUT COORDINATES	204927.498E 7238197.528N	204924.218E 7238204.159N
CHAINAGE	0.000	7.398

LINE 21

EX1/EX03	1/5
HEADWALL	FIELD INLET 900x900 TYPE 2

DESIGN SURFACE
EXISTING SURFACE

RETAIN EXISTING INLET HEADWALL AND CONSTRUCT NEW INLET PIT OVER EXISTING PIPE

PIPE SIZE (mm)	300	300
PIPE CLASS	BC	BC
PIPE GRADE (%)	0.15%	0.15%
PIPE SLOPE (1 in X)	648.0	648.0
PIPE FLOW (cumecs)	0.000	0.000
CAPACITY FLOW (cumecs)	0.038	0.038
FULL PIPE VELOCITY (m/s)	0.00	0.00
NORMAL DEPTH VELOCITY (m/s)	0.00	0.00
DATUM RL	108.000	108.000
HGL ELEVATION	140.701	140.620
DEPTH TO INVERT	0.698	0.503
INVERT LEVEL OF DRAIN	140.701	140.620
DESIGN (& EXISTING) SURFACE LEVEL	140.924	140.812
SETOUT COORDINATES	204927.498E 7238197.528N	204924.218E 7238204.159N
CHAINAGE	0.000	7.398

EX03

EX1/EX05	EX2/EX05	EX3/EX05	OUT/EX05
ROAD PIT	ROAD PIT LARGE LINTEL	MANHOLE 1200mm DIA	HEADWALL

EXISTING SWD LINES NOT SURVEYED SHOWN INDICATIVELY ONLY
EXISTING SWD LINE. TRUE SIZE, INVERTS, EXACT ORIENTATION AND OUTLET LOCATION TO BE CONFIRMED ON SITE.

NEWLY CONSTRUCTED 1050Ø IRRIGATION MAIN
10AEP HGL

PIPE SIZE (mm)	450	450	1050
PIPE CLASS	RCP	RCP	RCP
PIPE GRADE (%)	0.50%	0.50%	0.50%
PIPE SLOPE (1 in X)	200.0	200.0	200.4
PIPE FLOW (cumecs)	0.000	1.392	1.578
CAPACITY FLOW (cumecs)	0.202	0.202	1.930
FULL PIPE VELOCITY (m/s)	0.00	8.75	1.82
NORMAL DEPTH VELOCITY (m/s)	0.00	8.75	2.48
DATUM RL	107.000	107.000	107.000
HGL ELEVATION	140.919	140.919	140.079
DEPTH TO INVERT	0.718	0.834	1.792
INVERT LEVEL OF DRAIN	140.201	140.085	138.287
DESIGN (& EXISTING) SURFACE LEVEL	140.919	140.919	141.544
SETOUT COORDINATES	204935.597E 7238053.444N	204935.597E 7238076.433N	204999.118E 7238070.872N
CHAINAGE	0.000	23.185	85.951

EX05

EX1/EX06	EX3/EX05
HEADWALL	MANHOLE 1200mm DIA

DESIGN SURFACE
EXISTING SURFACE

RETAIN EXISTING INLET HEADWALL AND CONSTRUCT NEW INLET PIT OVER EXISTING PIPE

PIPE SIZE (mm)	375	375
PIPE CLASS	RCP	RCP
PIPE GRADE (%)	0.72%	0.72%
PIPE SLOPE (1 in X)	138.6	138.6
PIPE FLOW (cumecs)	0.078	0.150
CAPACITY FLOW (cumecs)	0.149	0.358
FULL PIPE VELOCITY (m/s)	0.70	1.36
NORMAL DEPTH VELOCITY (m/s)	1.36	3.09
DATUM RL	107.000	107.000
HGL ELEVATION	140.418	140.418
DEPTH TO INVERT	0.522	0.650
INVERT LEVEL OF DRAIN	140.038	139.954
DESIGN (& EXISTING) SURFACE LEVEL	140.919	141.544
SETOUT COORDINATES	204976.501E 7238037.867N	204999.118E 7238070.872N
CHAINAGE	0.000	39.768

EX06

EX1/EX07	EX3/EX05
FIELD INLET 900x900 TYPE 1	MANHOLE 1200mm DIA

DESIGN SURFACE
EXISTING SURFACE

RETAIN EXISTING INLET HEADWALL AND CONSTRUCT NEW INLET PIT OVER EXISTING PIPE

PIPE SIZE (mm)	375	375
PIPE CLASS	RCP	RCP
PIPE GRADE (%)	4.16%	4.16%
PIPE SLOPE (1 in X)	24.1	24.1
PIPE FLOW (cumecs)	0.150	0.150
CAPACITY FLOW (cumecs)	0.358	0.358
FULL PIPE VELOCITY (m/s)	1.36	1.36
NORMAL DEPTH VELOCITY (m/s)	3.09	3.09
DATUM RL	106.000	106.000
HGL ELEVATION	140.654	140.654
DEPTH TO INVERT	0.850	0.850
INVERT LEVEL OF DRAIN	139.954	139.954
DESIGN (& EXISTING) SURFACE LEVEL	140.919	141.544
SETOUT COORDINATES	204999.118E 7238070.872N	204999.118E 7238070.872N
CHAINAGE	0.000	4.882

EX07

EX1/EX08	2/EX08	OUT/EX08
ROAD PIT LARGE LINTEL	MANHOLE 1350mm DIA	HEADWALL

EXISTING SWD LINES NOT SURVEYED SHOWN INDICATIVELY ONLY
NEWLY CONSTRUCTED 1050Ø IRRIGATION MAIN

RETAIN EXISTING INLET HEADWALL AND CONSTRUCT NEW INLET PIT OVER EXISTING PIPE

PIPE SIZE (mm)	450	675
PIPE CLASS	RCP	RCP
PIPE GRADE (%)	0.50%	0.50%
PIPE SLOPE (1 in X)	199.7	200.0
PIPE FLOW (cumecs)	0.588	0.644
CAPACITY FLOW (cumecs)	0.202	0.595
FULL PIPE VELOCITY (m/s)	3.69	1.80
NORMAL DEPTH VELOCITY (m/s)	3.69	1.80
DATUM RL	108.000	108.000
HGL ELEVATION	141.934	141.007
DEPTH TO INVERT	1.072	1.370
INVERT LEVEL OF DRAIN	140.862	140.649
DESIGN (& EXISTING) SURFACE LEVEL	141.934	142.020
SETOUT COORDINATES	204880.671E 7237945.252N	204922.888E 7237940.052N
CHAINAGE	0.000	42.533

EX08

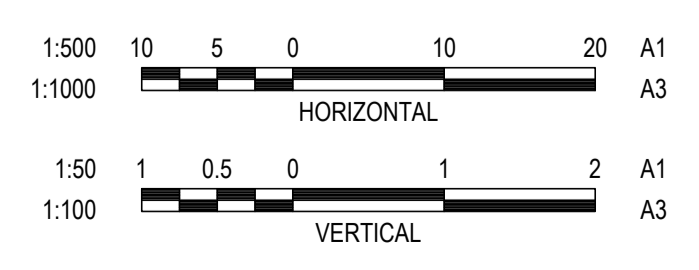
EX1/EX09	2/EX08
HEADWALL	MANHOLE 1350mm DIA

DESIGN SURFACE
EXISTING SURFACE

RETAIN EXISTING INLET HEADWALL AND CONSTRUCT NEW INLET PIT OVER EXISTING PIPE

PIPE SIZE (mm)	450	450
PIPE CLASS	RCP	RCP
PIPE GRADE (%)	0.50%	0.50%
PIPE SLOPE (1 in X)	200.0	200.0
PIPE FLOW (cumecs)	0.065	0.065
CAPACITY FLOW (cumecs)	0.202	0.202
FULL PIPE VELOCITY (m/s)	0.41	0.41
NORMAL DEPTH VELOCITY (m/s)	1.13	1.13
DATUM RL	108.000	108.000
HGL ELEVATION	140.923	140.864
DEPTH TO INVERT	0.550	0.550
INVERT LEVEL OF DRAIN	140.889	140.889
DESIGN (& EXISTING) SURFACE LEVEL	142.020	142.020
SETOUT COORDINATES	204922.888E 7237940.052N	204922.888E 7237940.052N
CHAINAGE	0.000	19.341

EX09



DESIGN CS
DRAWN CS
DESIGN CHECK SS

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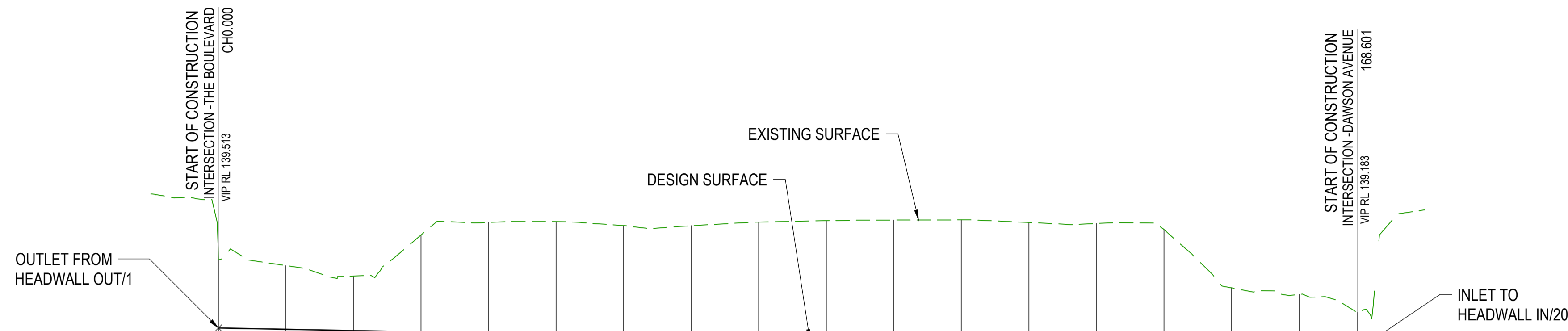
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
PAVEMENT WIDENING AND REHABILITATION WORKS
DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 4

Scale AS SHOWN Dwg. No. 2320-212 Sheet 70 OF 85 Issue 1

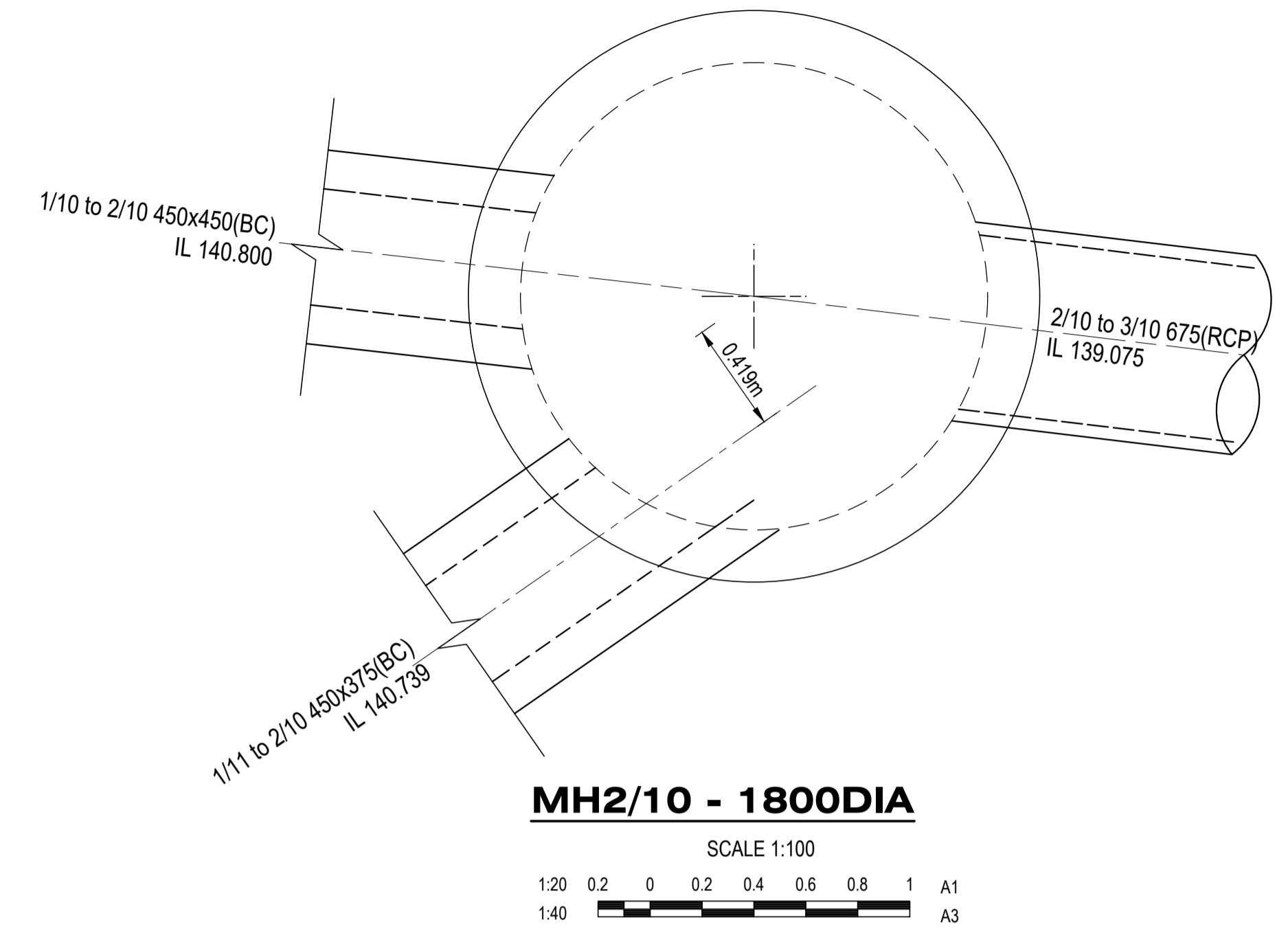
No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

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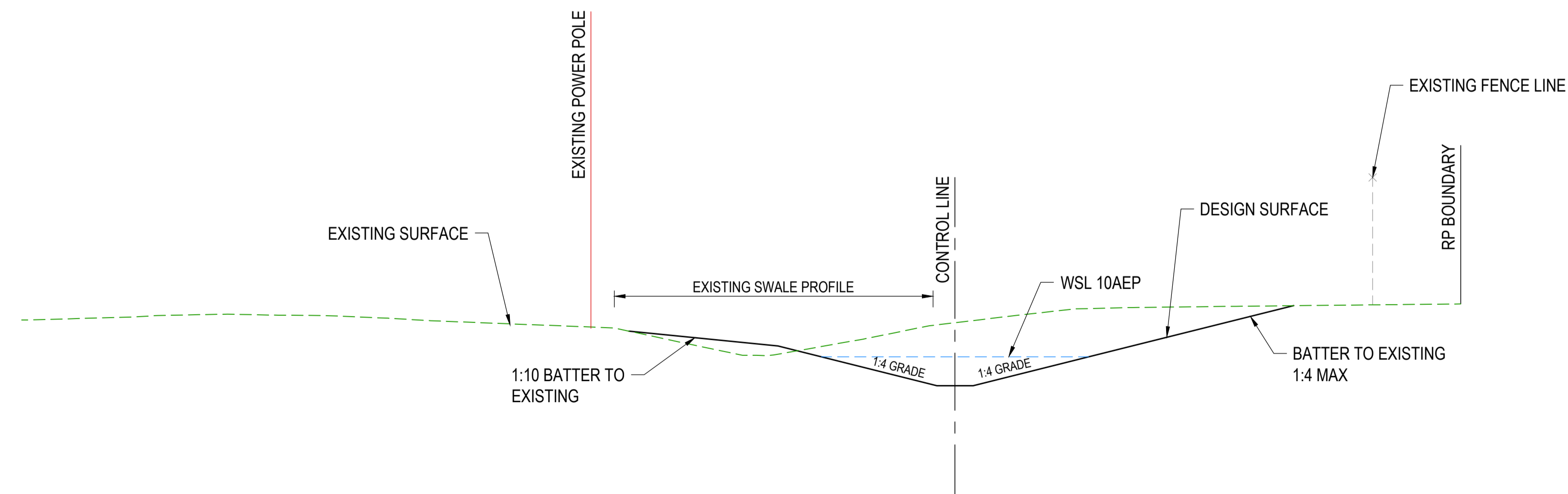


HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 DATUM RL = 134.900

CUT / FILL DEPTH	-1.011	-0.944	-0.809	-1.436	-1.643	-1.672	-1.634	-1.651	-1.725	-1.765	-1.794	-1.816	-1.797	-1.802	-1.733	-0.889	-0.811	-0.562
DESIGN SURFACE LEVEL	139.513	139.464	139.474	139.455	139.435	139.415	139.396	139.376	139.357	139.337	139.317	139.298	139.278	139.259	139.239	139.219	139.200	139.183
NATURAL SURFACE LEVEL	140.524	140.438	140.283	140.891	141.077	141.088	141.029	141.027	141.082	141.102	141.111	141.113	141.075	141.061	140.972	140.108	140.011	139.745
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	168.601

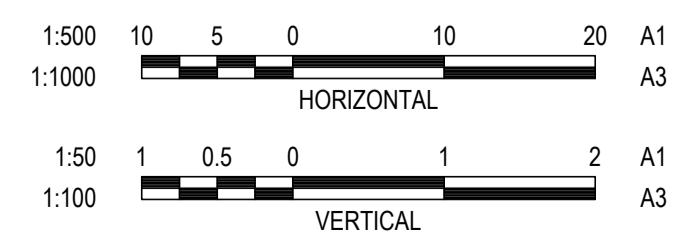


A1 SCALE: H 1:500, V 1:50
 LONGITUDINAL SECTION "ELEVENTH AVENUE DRAINAGE SWALE"



TYPICAL SECTION - ELEVENTH AVENUE DRAINAGE SWALE
 SCALE 1:100

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



DESIGN CS
 DRAWN CS
 DESIGN CHECK SS
 Director: TONY SHELLEY (RPEQ 7736)

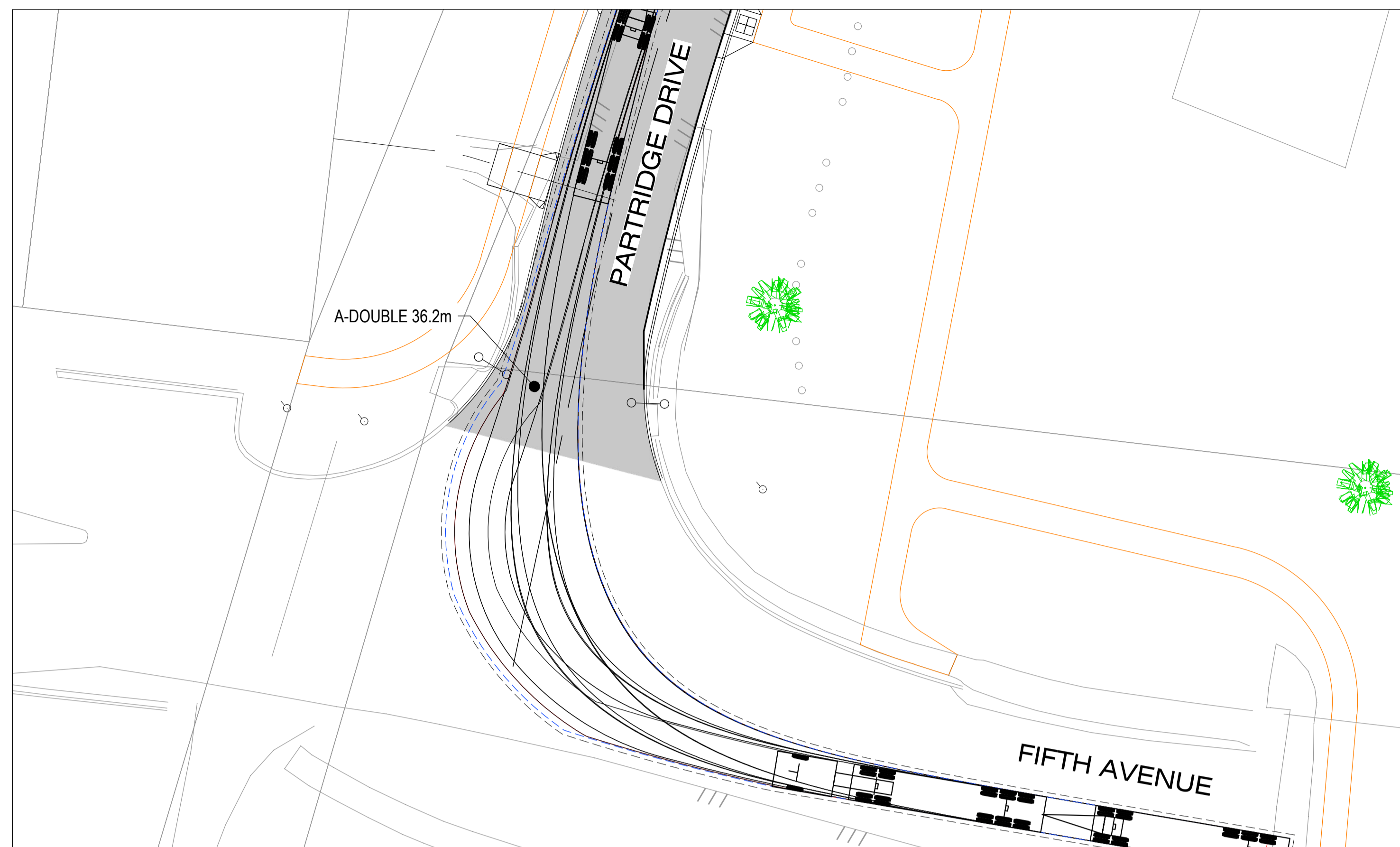
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 4
 AND STRUCTURE DETAILS

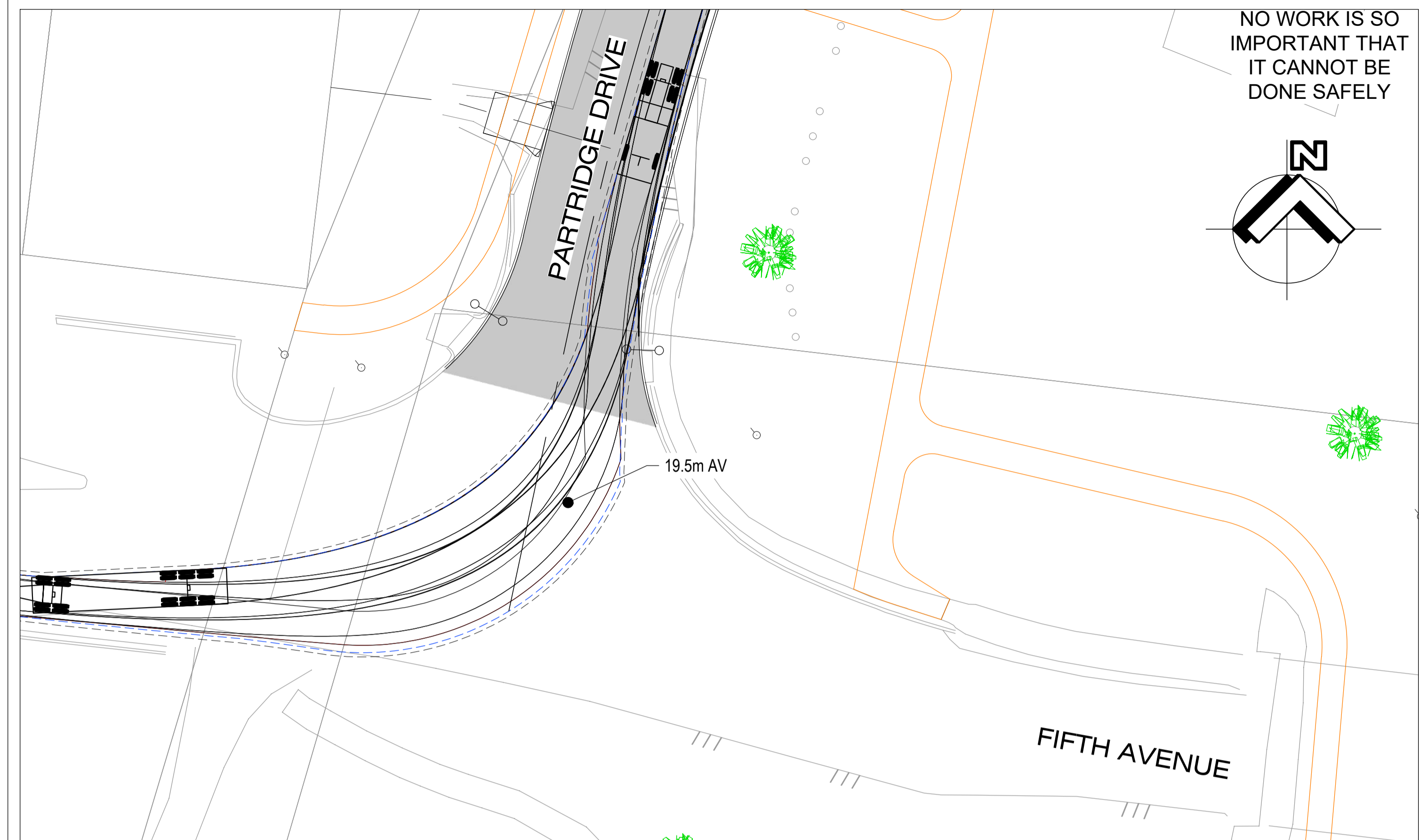
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-213	71 OF 85	1

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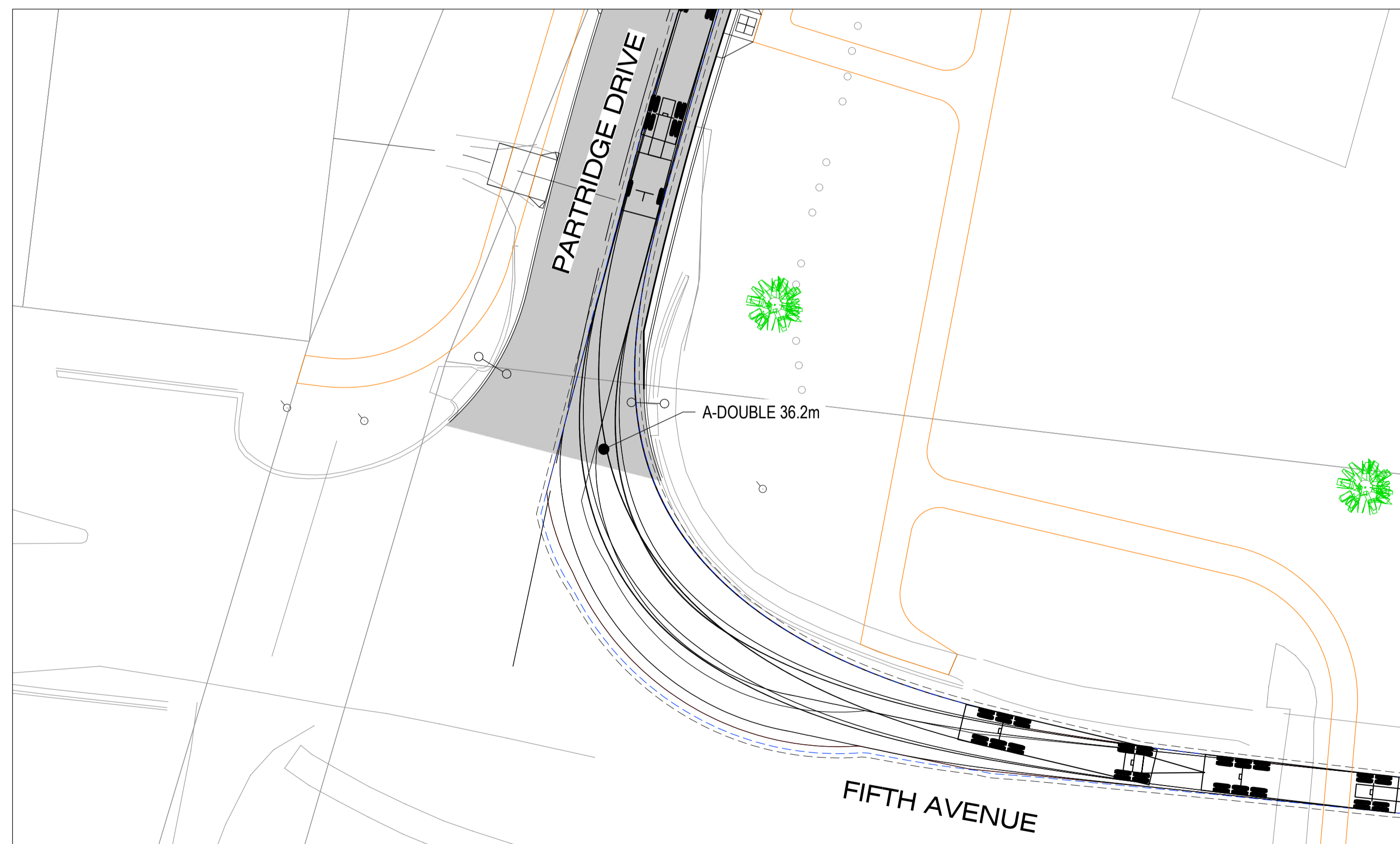
Node Name	Node Type	Setout Easting	Setout Northing	Setout RL	Grate RL	Road Name	Road Chainage	Road Offset	Catch ID	Time Tc	Intensity I	Runoff C	Area A	Full CA	Full Sum CA	Full Qc=CA	Partial CA	Partial Sum CA	Partial Qc=CA	Direct Flow Qdg	Approach Flow Qa	Road Capacity	Flooded Depth	Flooded Width	Flooded Vel.Dep	Road Grade	Road Xfall	Max Pond Depth	Choke Factor	Inlet Curve Name	Inlet Flow Qg	Bypass Flow Qb	Bypass Node		
(-)	(-)	(m)	(m)	(m)	(m)	(-)	(m)	(m)	(-)	(min)	(mm/hr)	(-)	(ha)	(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)	(L/s)	(L/s)	(m)	(m)	(sq.m/s)	(%)	(%)	(m)	(-)	(-)	(L/s)	(L/s)	(-)		
1/1	HW inlet	204876.9	7238327	140.04	141.05				1P	15	129	0.75	0.7862	0.5896	1.651	591.6	0.1965	1.2579	660.4		660.4	134.2	0.187	2.57	0.43	2.5	3		0.8		660.4		LOST		
2/1	RD PIT L	204861.6	7238339	140.72	140.75	ROAD 01	93.33	5.13	1P	15	129	0.75	0.0484	0.0363	0.1017	36.4	0.0121	0.0775	40.7		40.7	2357.6	0.075	2.1	0.04	0.8	3		0.8	0.5-1G,3.3X	32.5	8.1	LOST		
3/1	MH2100	204841.9	7238344	141.21	141.21				1I	5	189	0.9	0.0726	0.0654			0.0654																-		
4/1	SAG RD PIT	204807.7	7238350	141	141	ROAD 01	36.45	5.86	1P	15	129	0.75	0.1444	0.1083	0.3031	108.6	0.0361	0.231	121.3		121.3	139	0.136				0.15	0.5	SAG	121.3		-			
5/1	MH2100	204780.7	7238352	141.4	141.4				1I	5	189	0.9	0.2165	0.1949			0.1949																-		
6/1	MH2100	204760.5	7238353	141.44	141.44																												-		
OUT/1	HW	204755.6	7238353	139.56	141.24																												-		
1/2	SAG RD PIT	204757.5	7238335	140.95	140.95	THE BOULEVARD	15.1	-11.63	1P	15	129	0.75	0.1759	0.1319	0.3694	132.4	0.044	0.2815	147.8		147.8	139	0.159				0.15	0.5	SAG	147.8		-			
2/2	MH1050	204760.2	7238349	141.41	141.41				1I	5	189	0.9	0.2639	0.2375			0.2375																-		
1/3	SAG RD PIT	204778	7238321	140.87	140.87	THE BOULEVARD	3.62	10.44	1P	15	129	0.75	0.1444	0.1083	0.3032	108.6	0.0361	0.231	121.3		121.3	139	0.136				0.15	0.5	SAG	121.3		-			
1/5	SF1	204840.1	7238336	141.08	141.08				1I	5	189	0.9	0.2165	0.1949			0.1949				0	31.8	0				0.075	0.5	SAG	0		2/1			
1/6	RD PIT	204862.9	7238390	140.88	140.88	ELEVENTH AVE	4.45	4.78	1P	15	129	0.75	0.0432	0.0324	0.0907	32.5	0.0108	0.0691	36.3		36.3	400.6	0.093	2.27	0.04	2	3.9		0.8	2-8G,3.3X	27.1	9.2	LOST		
2/6	SAG RD PIT	204866.3	7238381	140.88	140.88	ELEVENTH AVE	4.45	-4.97	1P	15	129	0.75	0.0668	0.0501	0.1403	50.3	0.0167	0.1069	56.1		56.1	139	0.088				0.15	0.5	SAG	56.1		-			
3/6	MH1050	204848.8	7238375	141.08	141.08	ELEVENTH AVE	22.64	3.14	1I	5	189	0.9	0.1002	0.0902			0.0902																-		
1/7	SAG RD PIT	204784.2	7238374	141.37	141.37	THE BOULEVARD	57.1	10.23	1P	15	129	0.75	0.0185	0.0139	0.0388	13.9	0.0046	0.0296	15.5		15.5	139	0.031				0.15	0.5	SAG	15.5		-			
1/10	SF1	204873.8	7237813	141.78	141.78	SIXTH AVE	32.54	-10.06	1P	15	129	0.75	0.0277	0.0249	0.6701	240.1	0.0249	0.5105	268		268	87	0.374				0.15	0.5	SAG	268		-			
2/10	MH1800	204887.3	7237811	141.74	141.74				1I	5	189	0.9	0.0277	0.0249			0.0249																-		
OUT/10	HW OUT	204902.1	7237810	139.48	140	SIXTH AVE	45.35	-18.95	1I	5	189	0.9	0.06185	0.5567			0.5567																-		
1/11	SAG RD PIT	204861.1	7237793	141.53	141.53	SIXTH AVE	22.53	11.76	1P	15	129	0.75	0.4124	0.3093	0.8659	310.3	0.1031	0.6598	346.4		346.4	139	0.225				0.15	0.5	SAG	346.4		-			
1/12	SAG RD PIT	204853.1	7237701	140.92	140.92	ROAD 01	863.46	-4.5	1P	15	129	0.75	0.0672	0.0504	0.1412	50.6	0.0168	0.1076	56.5		56.5	139	0.088				0.15	0.5	SAG	56.5		-			
2/12	SF1	204861.3	7237712	140.96	140.96	ROAD 01	850.82	-9.15	1P	15	129	0.75	0.0361	0.0271	0.0759	27.2	0.009	0.0578	30.3		30.3	87	0.073				0.15	0.5	SAG	30.3		-			
3/12	SF1	204868.6	7237732	141.09	141.09	ROAD 01	829.07	-9.15	1P	15	129	0.75	0.0111	0.0083	0.0233	8.4	0.0028	0.0178	9.3		9.3	87	0.028				0.15	0.5	SAG	9.3		-			
4/12	SAG RD PIT	204873.8	7237747	141	141	ROAD 01	813.67	-9.15	1P	15	129	0.75	0.0531	0.0398	0.1116	40	0.0133	0.085	44.6		44.6	139	0.077				0.15	0.5	SAG	44.6		-			
OUT/12	HW OUT	204878.8	7237747	140.04	140.6				1I	5	189	0.9	0.05774	0.5197			0.5197																-		
1/14	RD PIT	204990.2	7238197	141	141				1P	15	129	0.75	0.3849	0.2887	0.8084	289.7	0.0962	0.6159	323.3		323.3												-		
2/14	TP	205028.2	7238193	141.16	141.42				1I	5	189	0.9	0.05774	0.5197			0.5197																	-	
3/14	SAG FI SQR	205030.3	7238192	140.83	140.83															250	250												-		
4/14	MH1800	205063	7238200	141.64	141.64																													-	
5/14	HW OUT	205103.2	7238169	140.21	140.21																													-	
1/16	RD PIT	205038.6	7238228	141.25	141.25	WALLOON STREET	16.22	4	1P	15	129	0.75	0.0556	0.0417	0.1168	41.9	0.0139	0.089	46.7		46.7	232.1	0.084	2.43	0.04	0.5	3		0.8	0.5G,3.3X	33.9	12.8	LOST		
2/16	SAG RD PIT	205068.2	7238207	141.38	141.38	WALLOON STREET	52.19	4.24	1P	15	129	0.75	0.0346	0.026	0.0727	26	0.0086	0.0554	29.1		29.1	139	0.058				0.15	0.5	SAG	29.1		-			
IN/20	HW IN	204596	7238304	140.56	140.56				1I	5	189	0.9	0.0519	0.0467			0.0467																	-	
OUT/20	HW OUT	204574.3	7238297	140.45	140.45																														-
IN/21	HW IN	205027.5	7238198	141.4	141.4																0													-	
OUT/21	HW OUT	205024.2	7238204	141.35	141.35																0														-
1/EX03	HW inlet	204844.1	7238334	140.62	141.12																0													-	
1/EX05	RD PIT	204933.6	7238053	140.92	140.92																0														-
2/EX05	RD PIT L	204936.6	7238076	140.92	140.92				1P	20	113	0.75	1.8139	1.3604	3.8092	1195.7	0.5442	2.993	1391.7		1391.7													-	
3/EX05	MH1200	204999.1	7238071	141.54	141.54				1I	8	167.4	0.9	2.7209	2.4488			2.4488																	-	
OUT/EX05	HW OUT	205034.1	7238042	138.79	138.79																														-
1/EX06	HW IN	204976.9	7238038	140.37	140.56				1P	15	129	0.75	0.0924	0.0693	0.194	69.5	0.0231	0.1478	77.6		77.6	78856.8	0.219	0.27	0.57										-
1/EX07	SF1	204999.9	7238076	140.8	140.8				1P	15	129	0.75	0.1386	0.1247			0.1247										0.6	0.5	SAG	149.8		-			
1/EX08	RD PIT L	204880.7	7237945	141.93																															



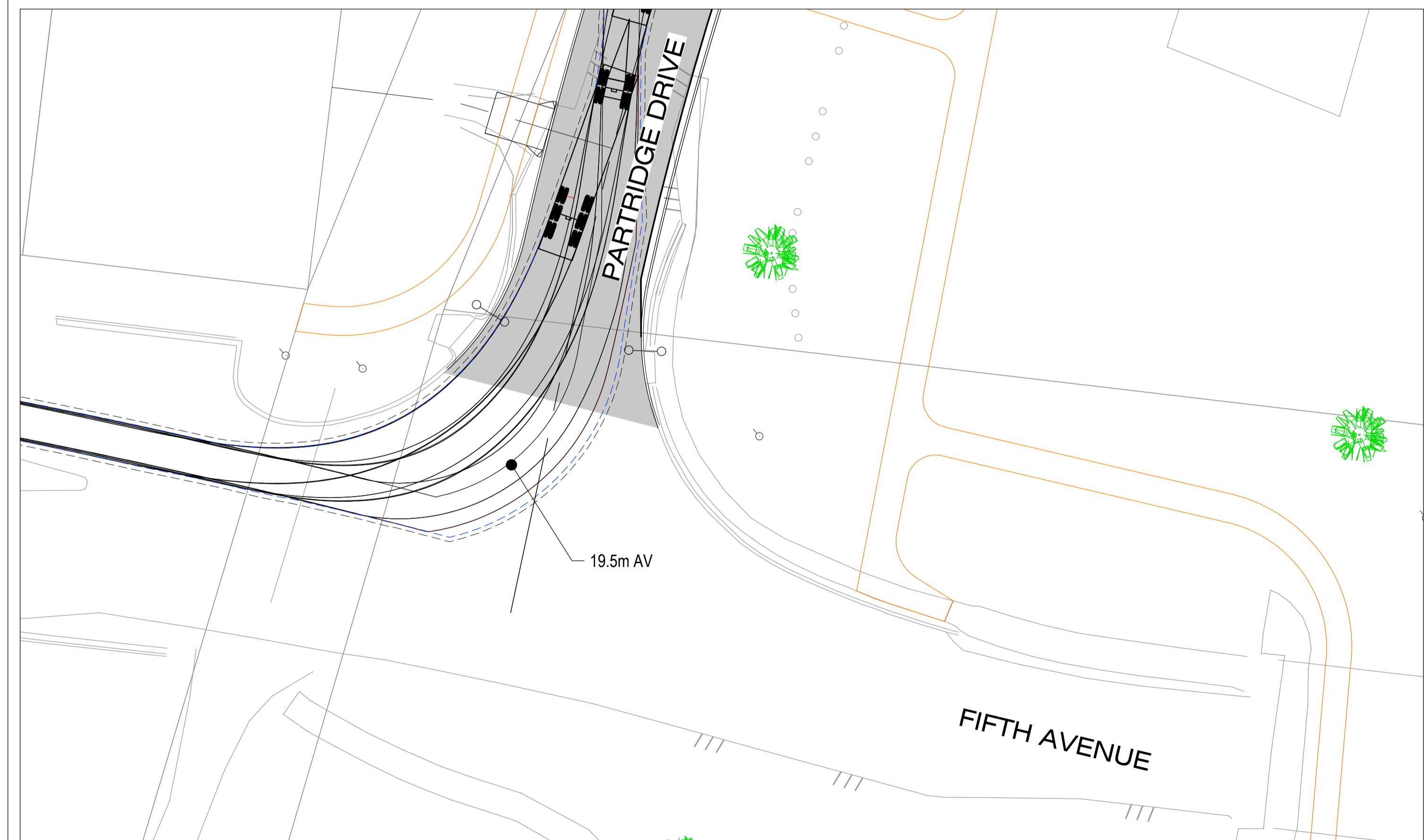
(A-DOUBLE / RT1) RIGHT HAND TURN FROM FIFTH AVE TO PARTRIDGE DRIVE



(19.5m AV) RIGHT HAND TURN FROM PARTRIDGE DRIVE ONTO FIFTH AVE

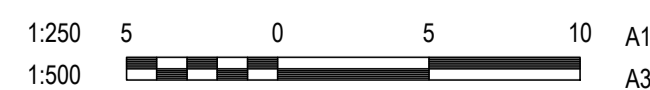
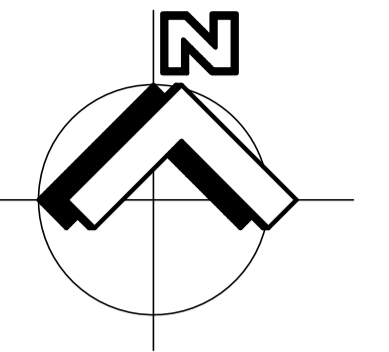


(A-DOUBLE / RT1) LEFT HAND TURN FROM PARTRIDGE DRIVE TO FIFTH AVE



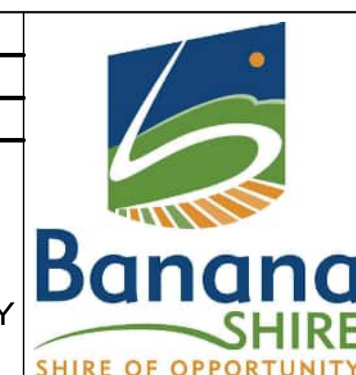
(19.5m AV) LEFT HAND TURN FROM FIFTH AVE ONTO PARTRIDGE DRIVE

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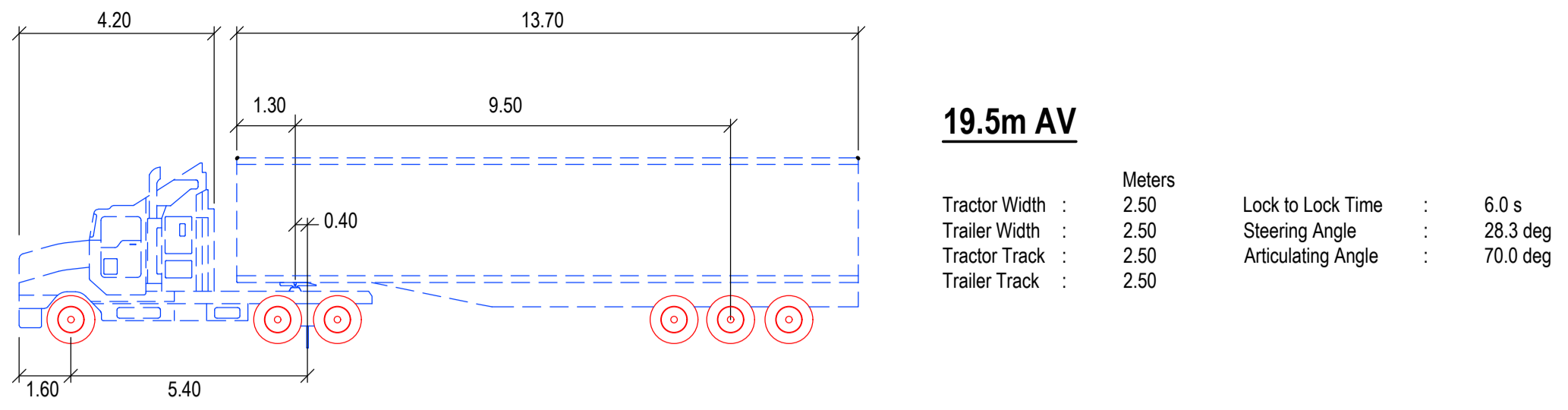
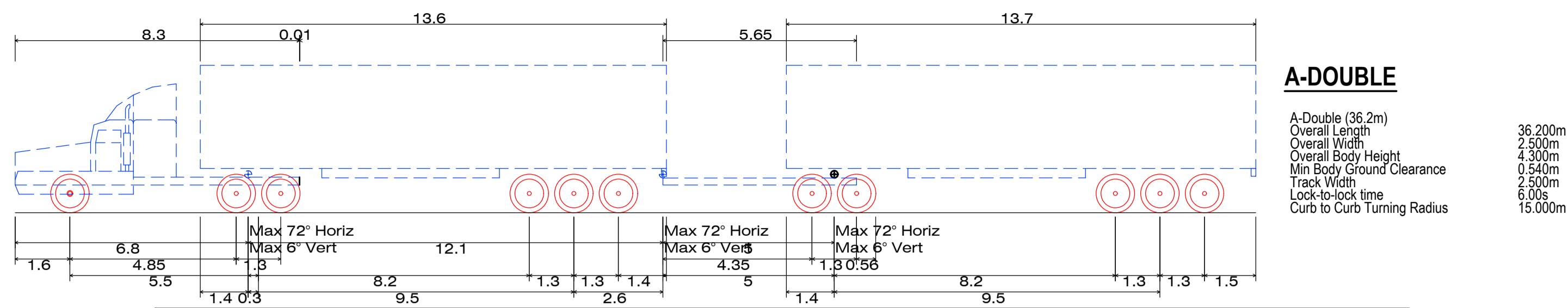
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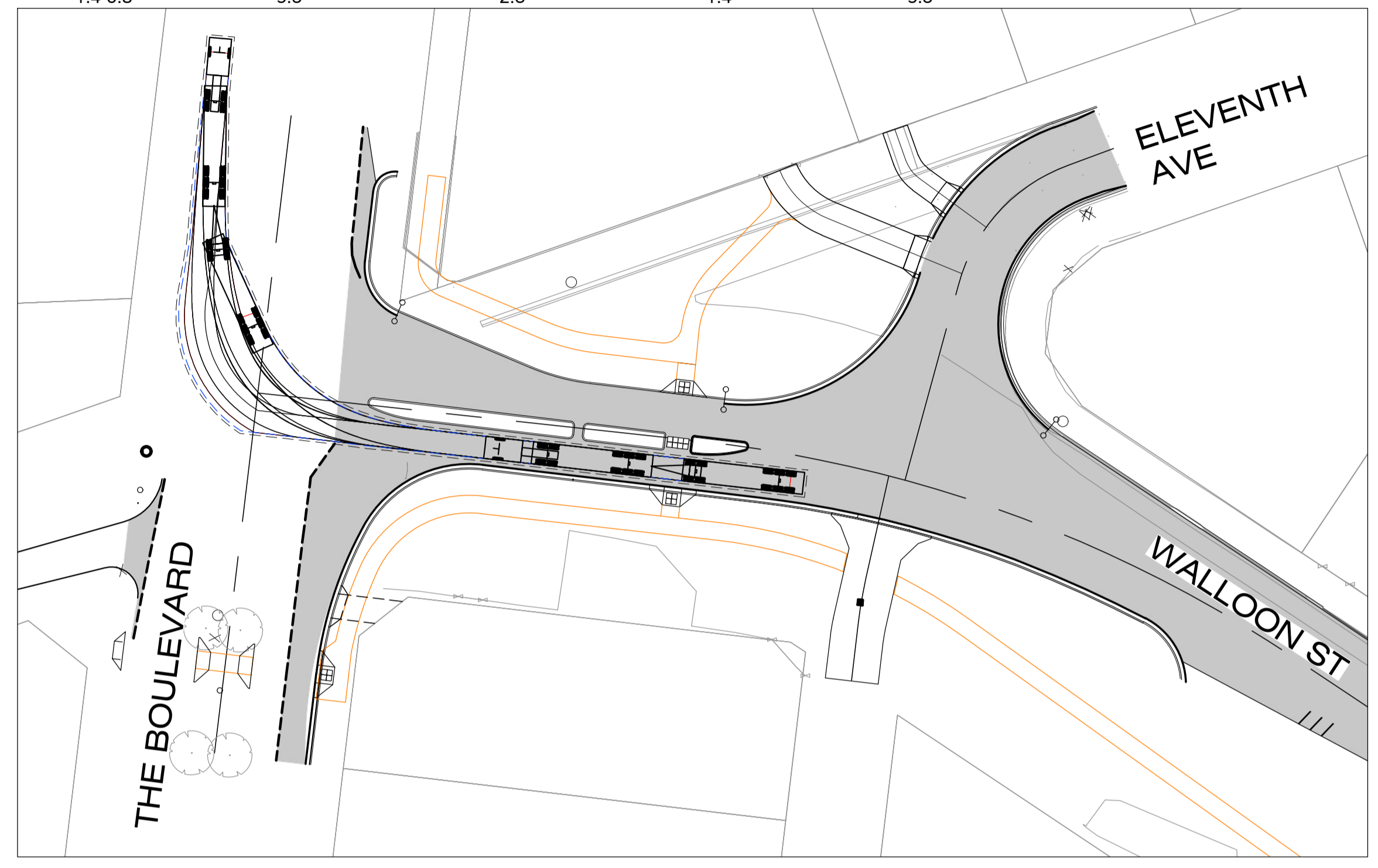
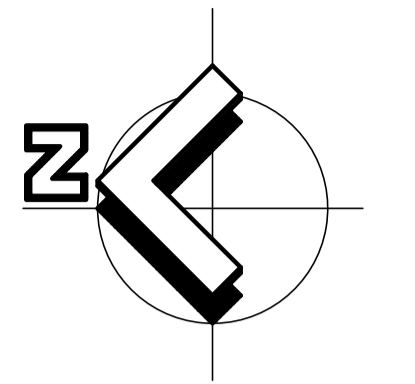
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 VEHICLE TURNING PATH SHEET 1 OF 3

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023

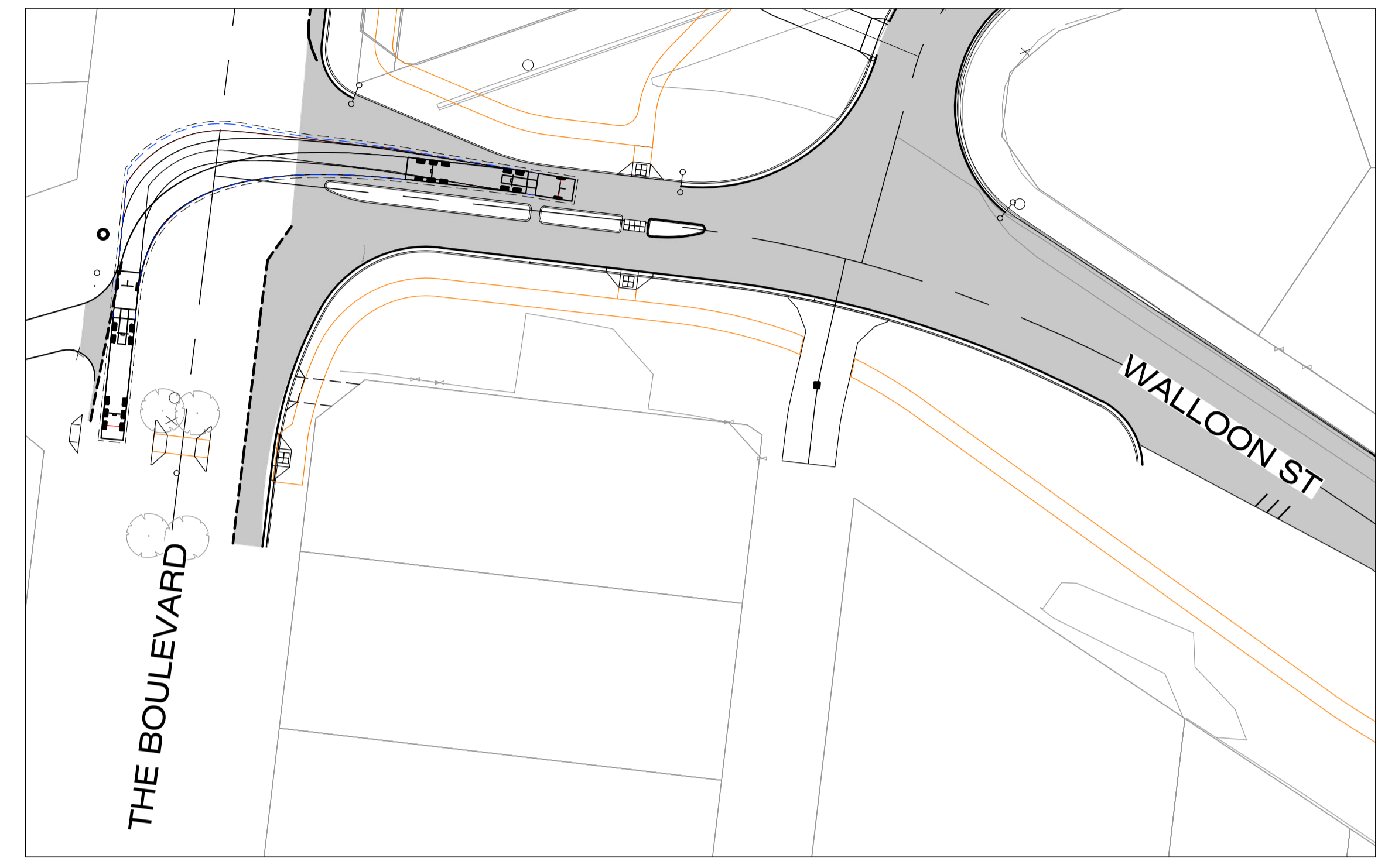
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AS SHOWN	2320-300	74 OF 85	1



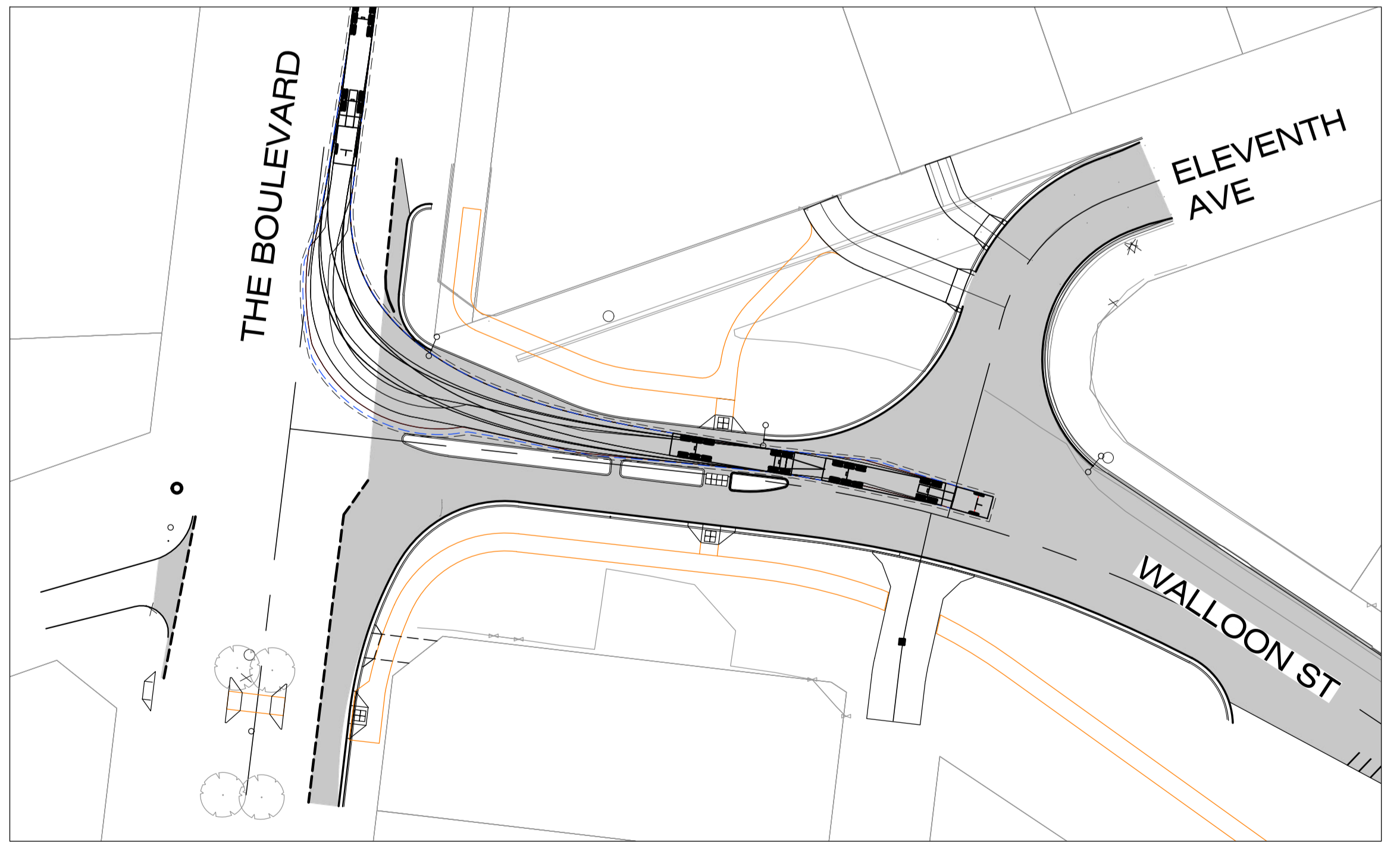
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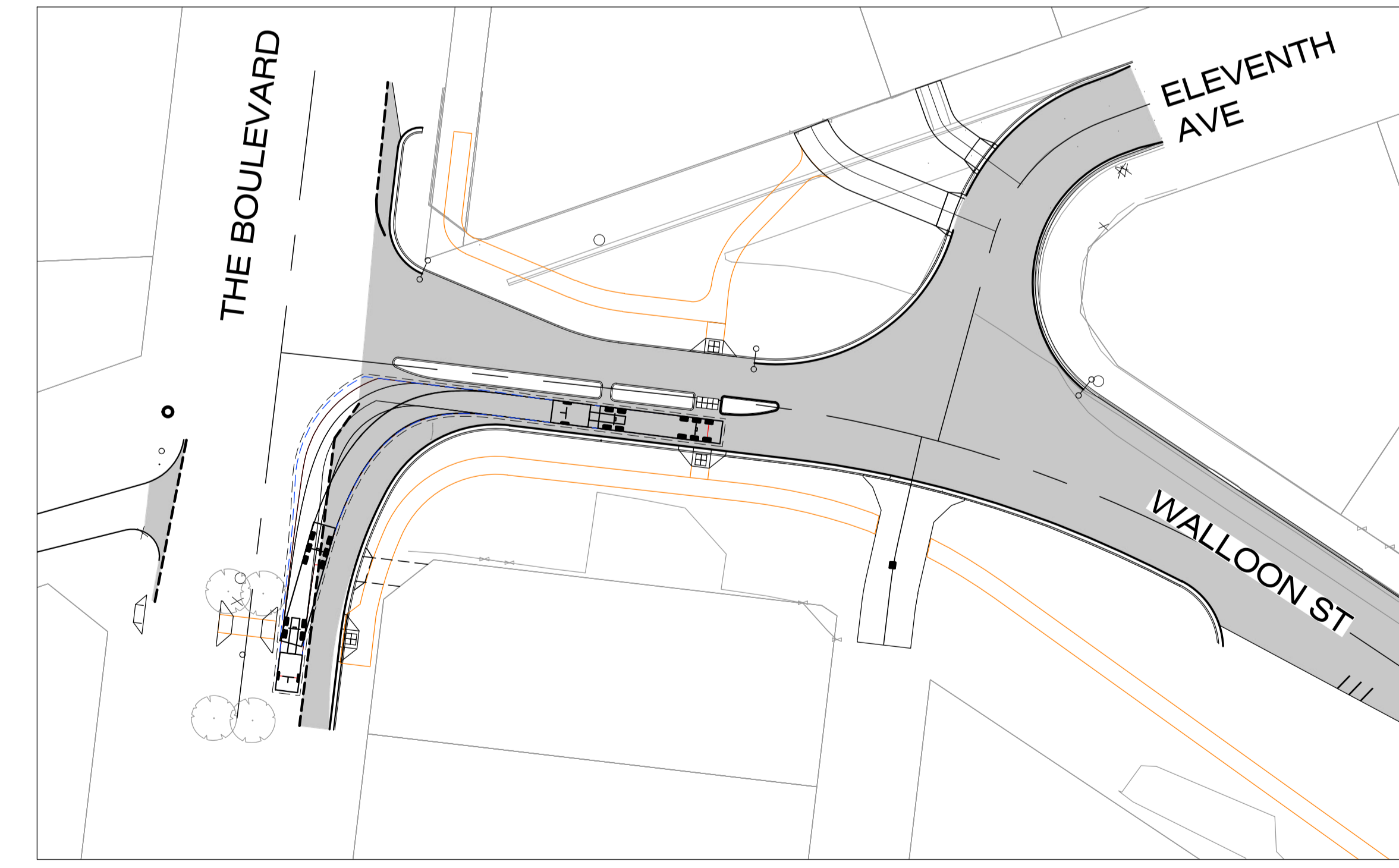
(A-DOUBLE / RT1) RIGHT HAND TURN FROM ELEVENTH AVE ONTO THE BOULEVARD



(19.5m AV) RIGHT HAND TURN FROM THE BOULEVARD INTO ELEVENTH AVENUE



(A-DOUBLE / RT1) LEFT HAND TURN FROM THE BOULEVARD INTO ELEVENTH AVE



(19.5m AV) LEFT HAND TURN FROM ELEVENTH AVE ONTO THE BOULEVARD

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023



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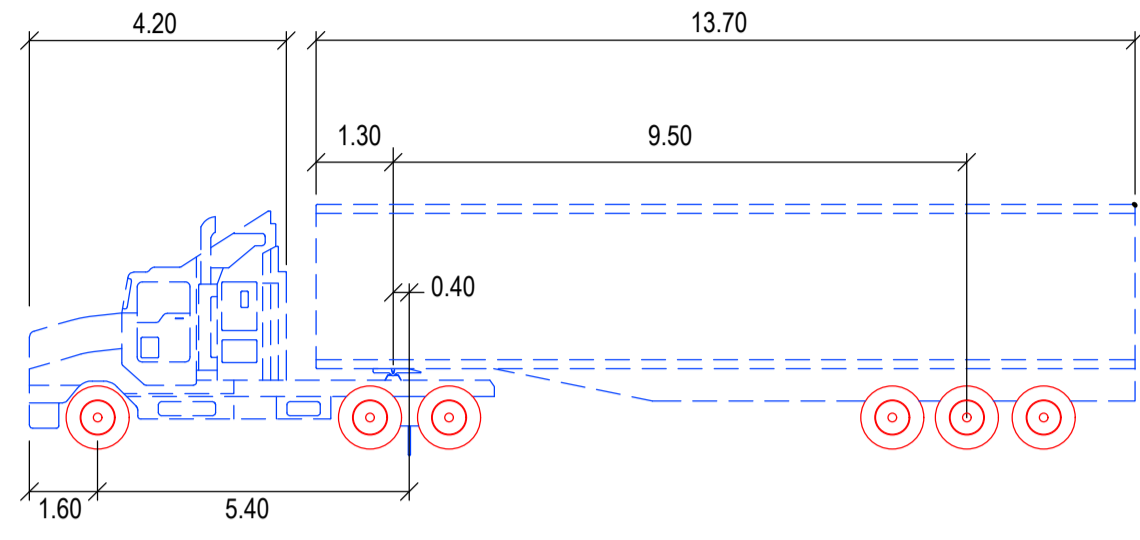
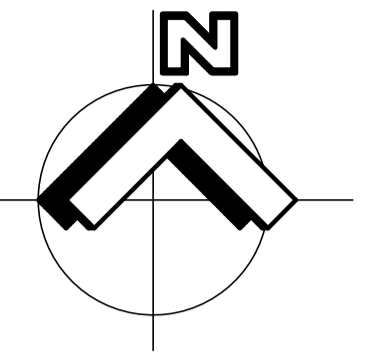
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE
 PAVEMENT WIDENING AND REHABILITATION WORKS
 VEHICLE TURNING PATH SHEET 2 OF 3

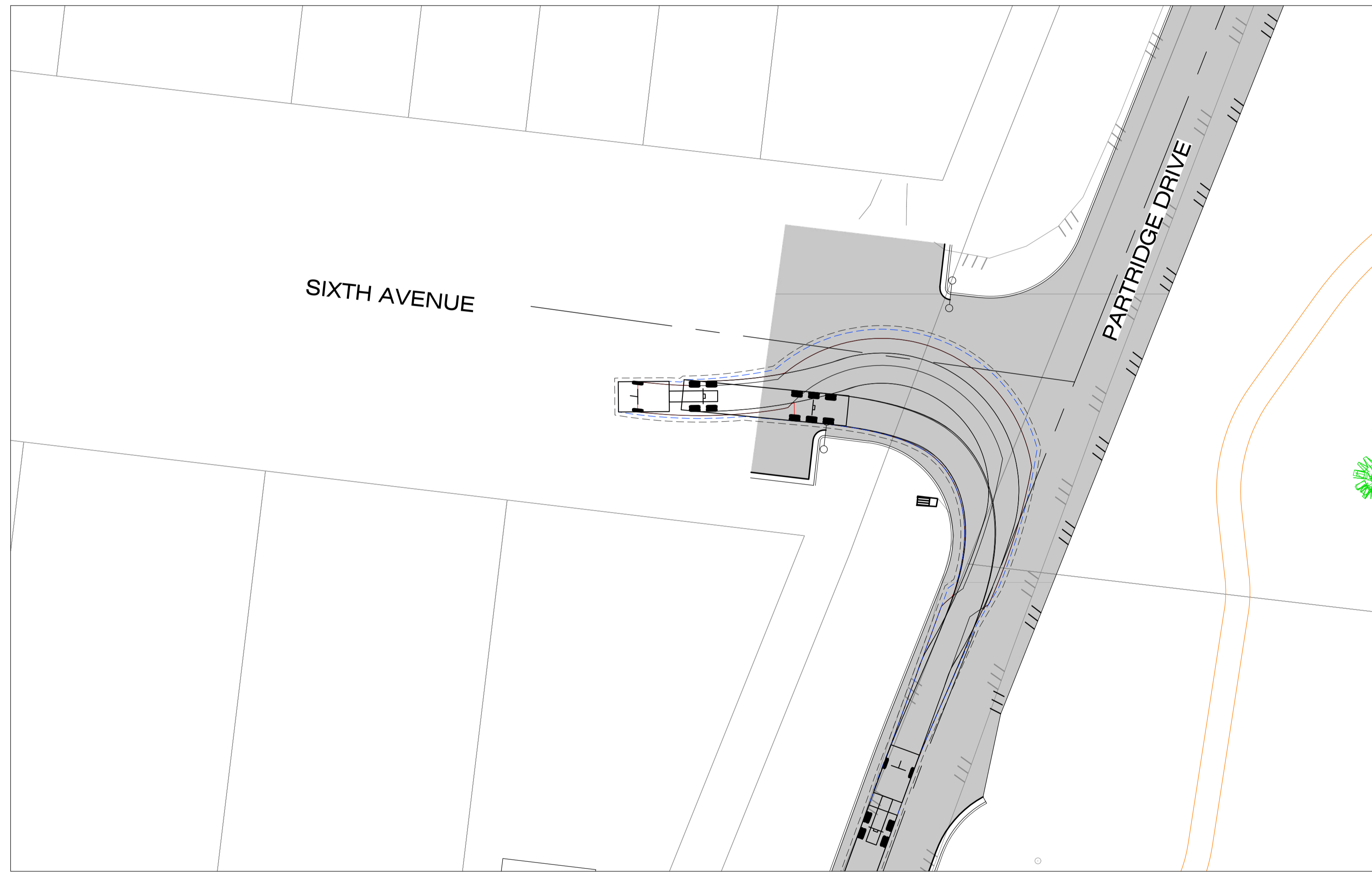
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AS SHOWN	2320-301	75 OF 85	1

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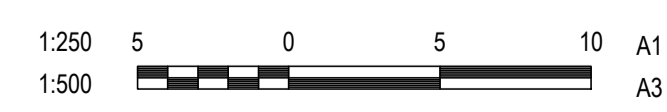


19.5m AV

Tractor Width :	2.50	Lock to Lock Time :	6.0 s
Trailer Width :	2.50	Steering Angle :	28.3 deg
Tractor Track :	2.50	Articulating Angle :	70.0 deg
Trailer Track :	2.50		



No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	17.11.2023





















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DESIGN CHECK	SS

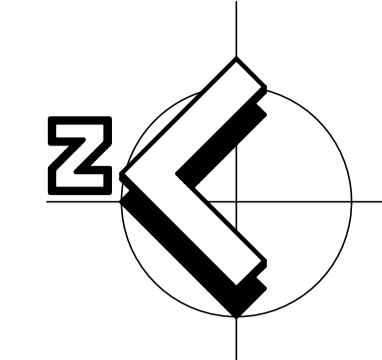
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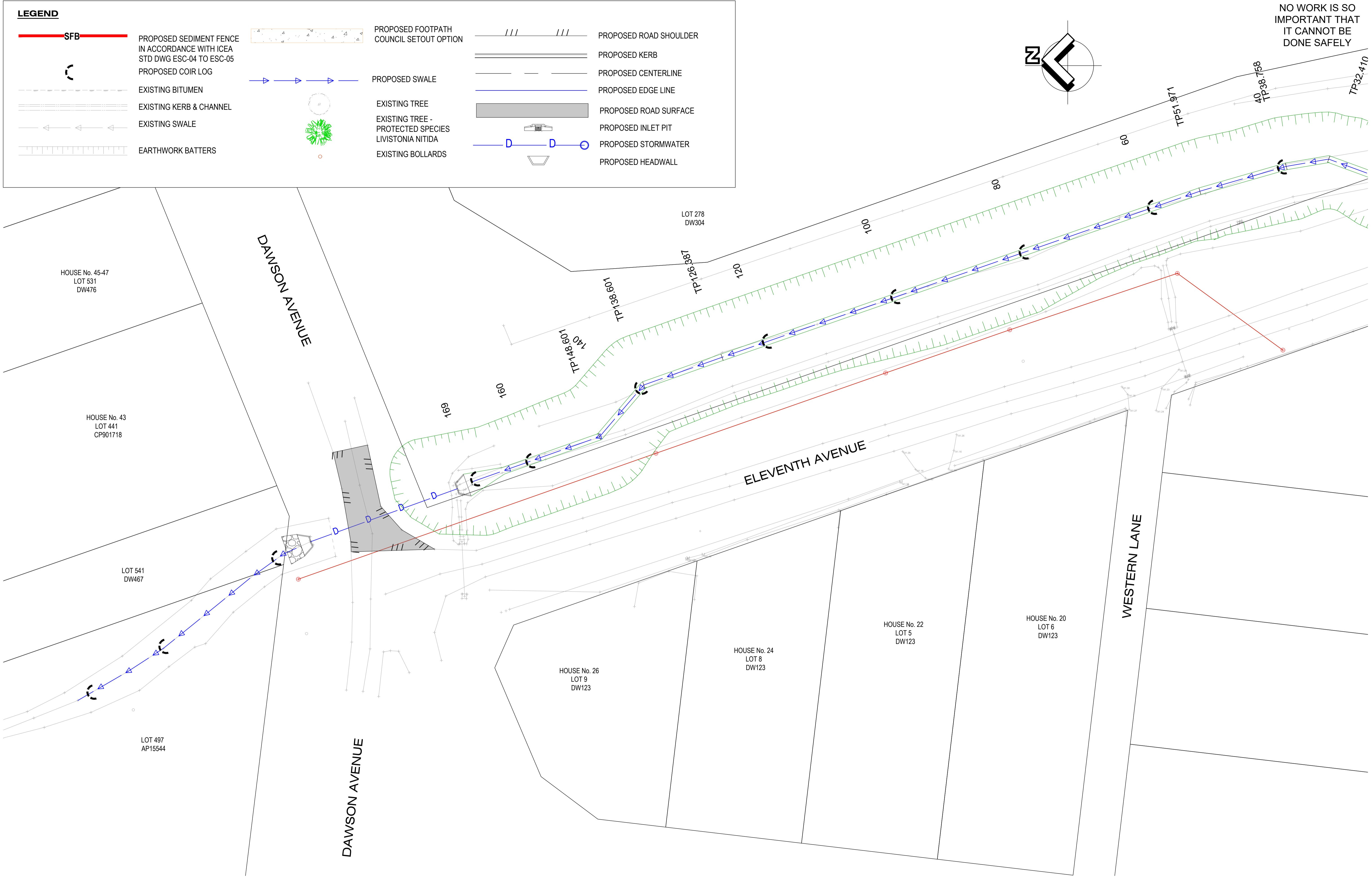
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS VEHICLE TURNING PATH SHEET 3 OF 3			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-302	76 OF 85	1

LEGEND

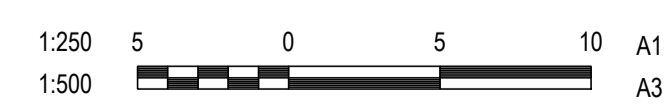
-  **SFB** PROPOSED SEDIMENT FENCE IN ACCORDANCE WITH ICEA STD DWG ESC-04 TO ESC-05
-  PROPOSED COIR LOG
-  EXISTING BITUMEN
-  EXISTING KERB & CHANNEL
-  EXISTING SWALE
-  EARTHWORK BATTERS
-  PROPOSED SWALE
-  EXISTING TREE
-  EXISTING TREE - PROTECTED SPECIES LIVISTONIA NITIDA
-  EXISTING BOLLARDS
-  PROPOSED ROAD SHOULDER
-  PROPOSED KERB
-  PROPOSED CENTERLINE
-  PROPOSED EDGE LINE
-  PROPOSED ROAD SURFACE
-  PROPOSED INLET PIT
-  PROPOSED STORMWATER
-  PROPOSED HEADWALL



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No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



DESIGN	CS
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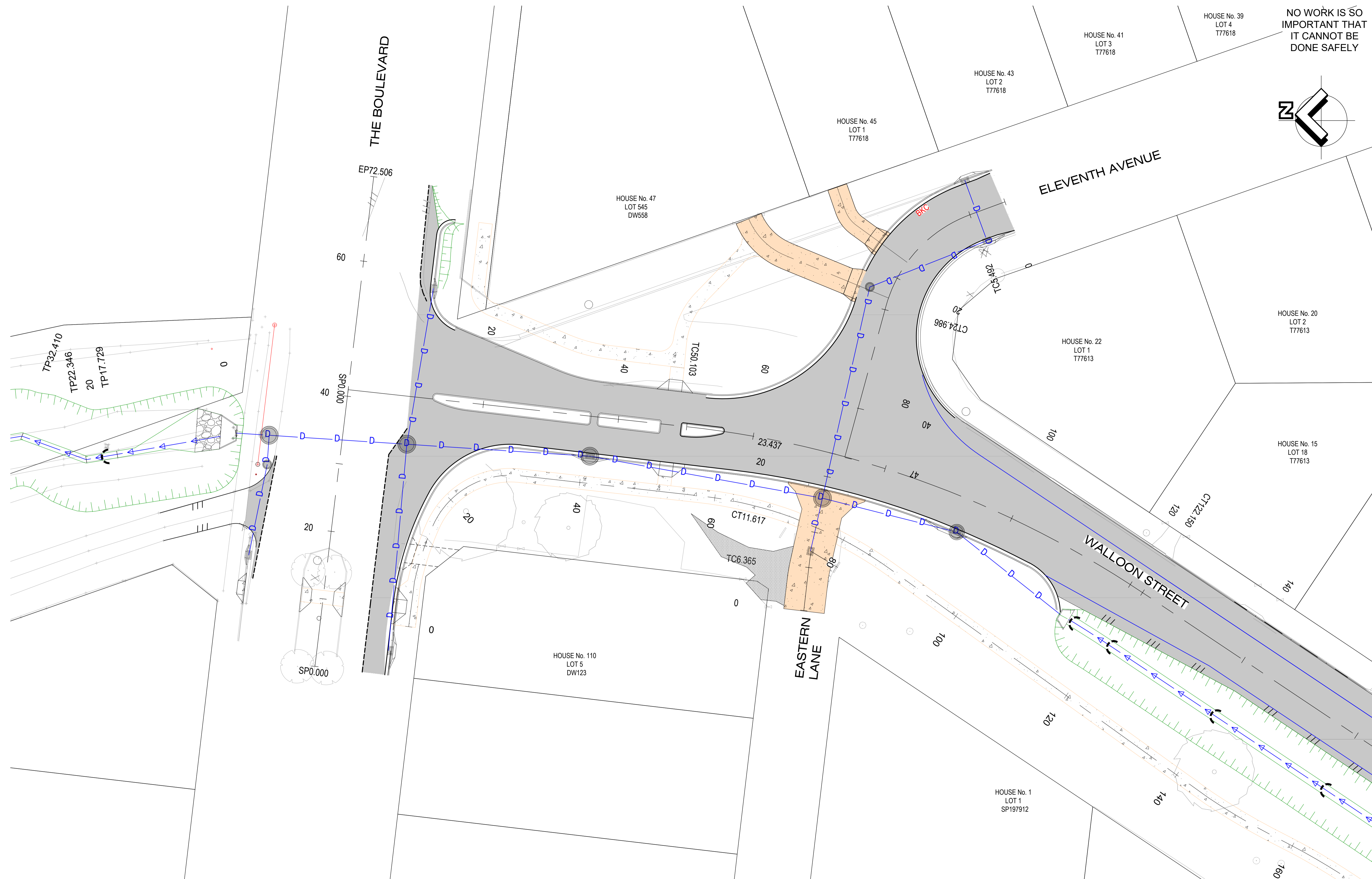
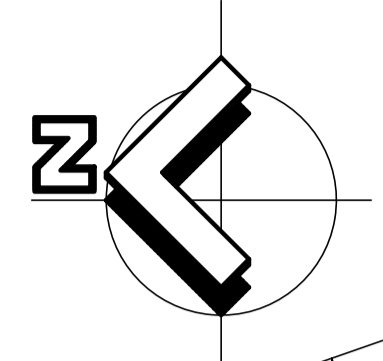


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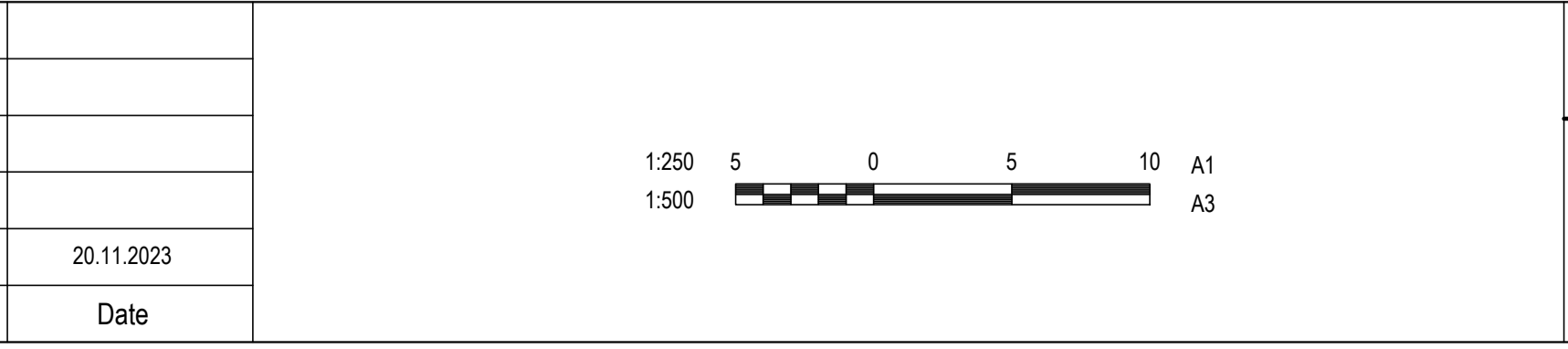
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EROSION AND SEDIMENT CONTROL PLAN SHEET 1 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-400	77 OF 85	1

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No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



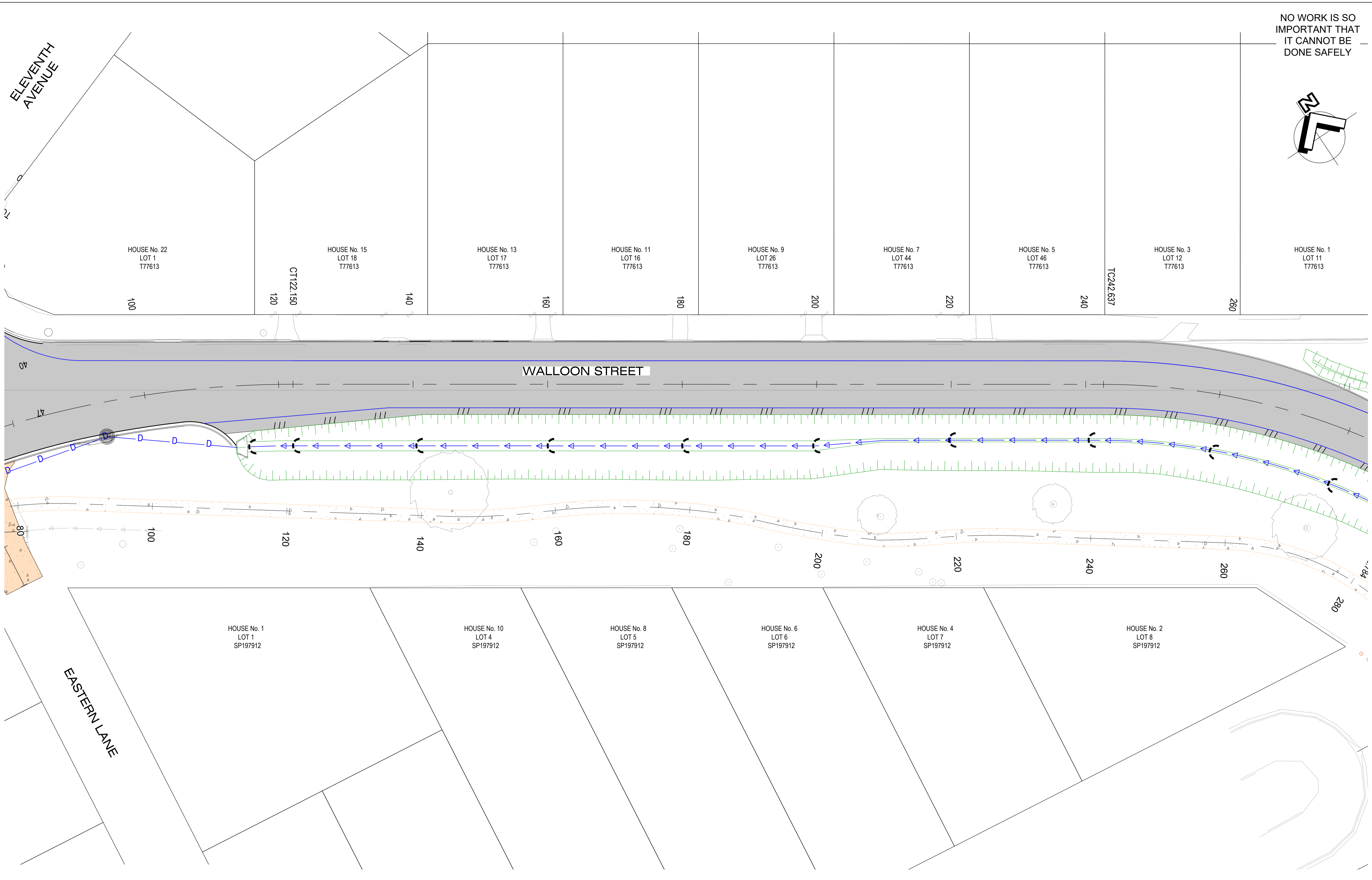
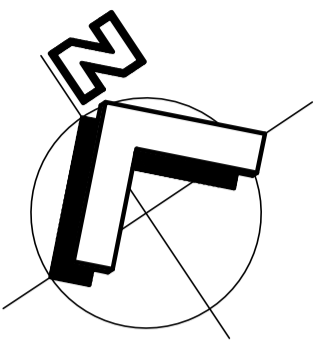
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EROSION AND SEDIMENT CONTROL PLAN SHEET 2 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-401	78 OF 85	1

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No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



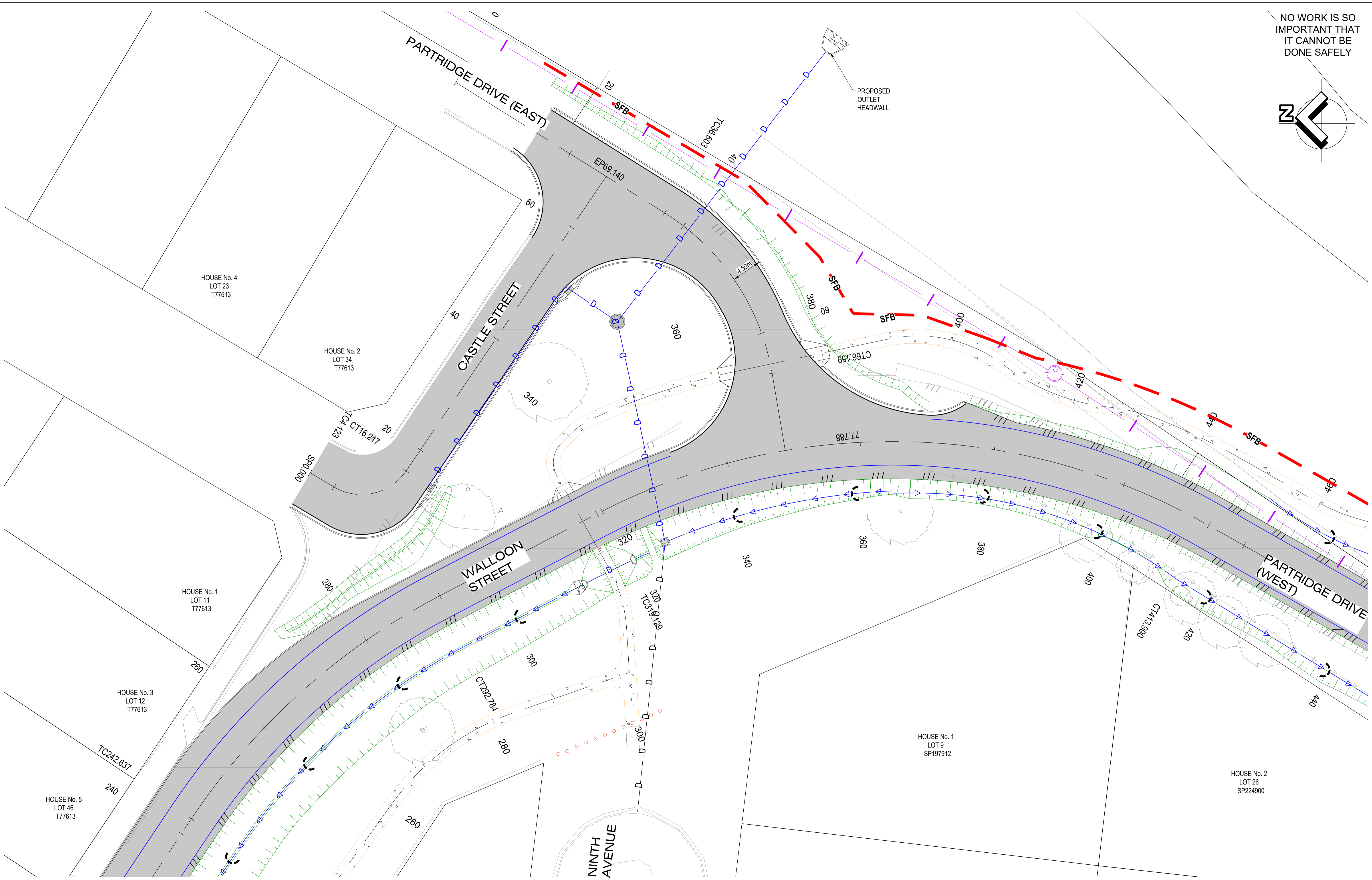
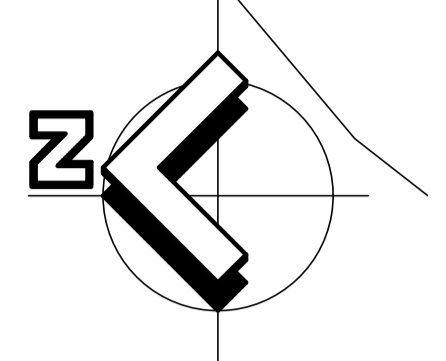
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EROSION AND SEDIMENT CONTROL PLAN SHEET 3 OF 7	
Scale AS SHOWN	Dwg. No. 2320-402
Sheet 79 OF 85	Issue 1

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No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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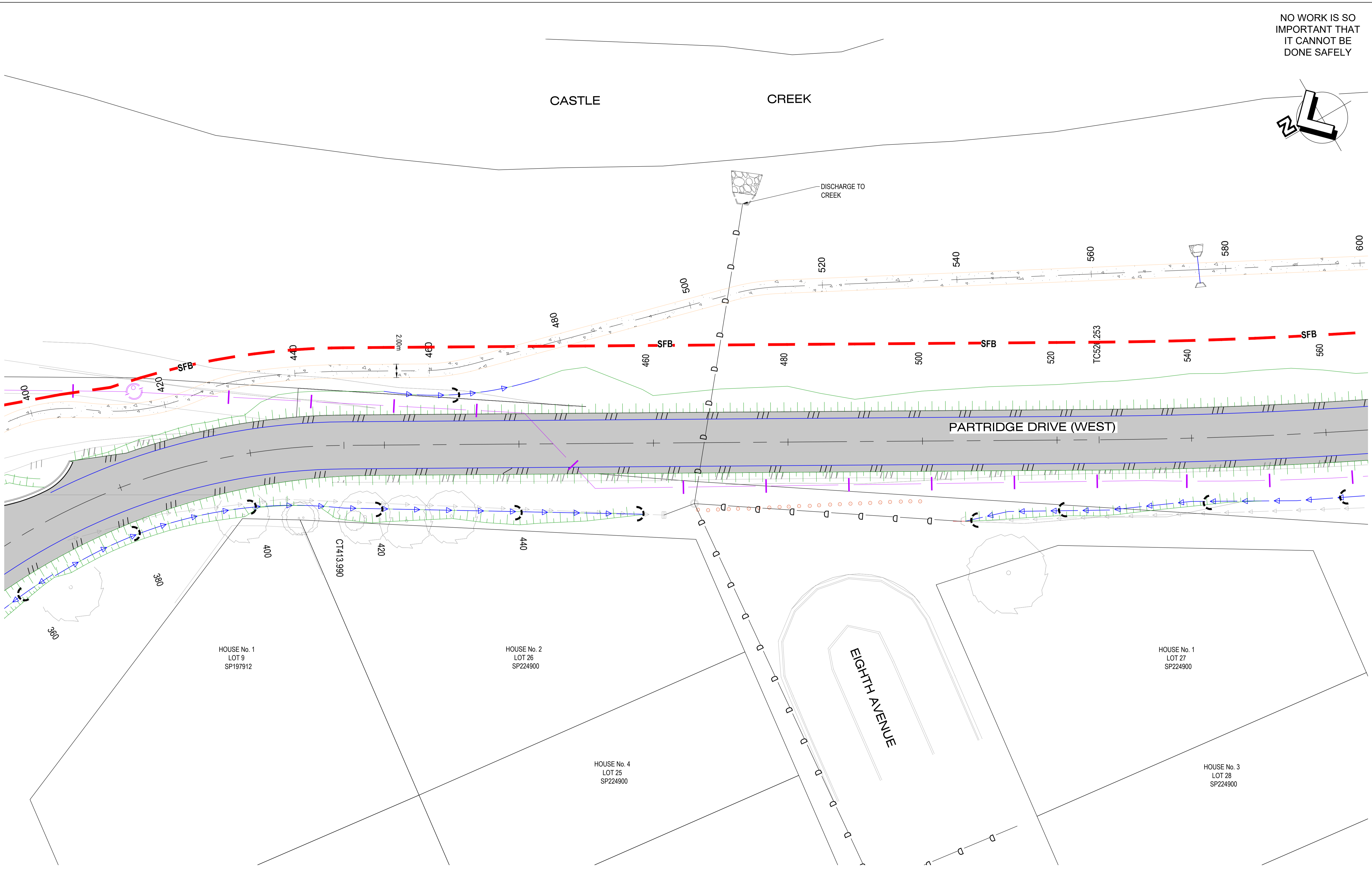
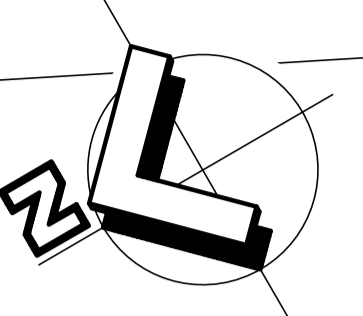
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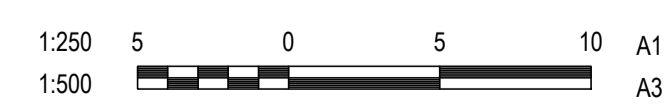
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EROSION AND SEDIMENT CONTROL PLAN SHEET 4 OF 7	
Scale AS SHOWN	Dwg. No. 2320-403
Sheet 80 OF 85	Issue 1

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No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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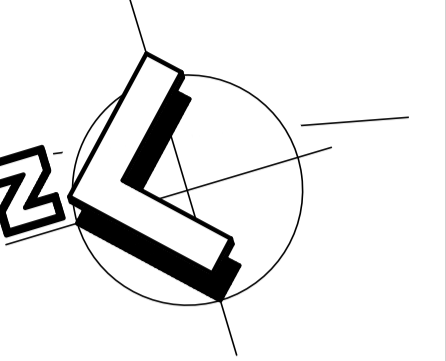
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EROSION AND SEDIMENT CONTROL PLAN SHEET 5 OF 7	
Scale AS SHOWN	Dwg. No. 2320-404
Sheet 81 OF 85	Issue 1

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No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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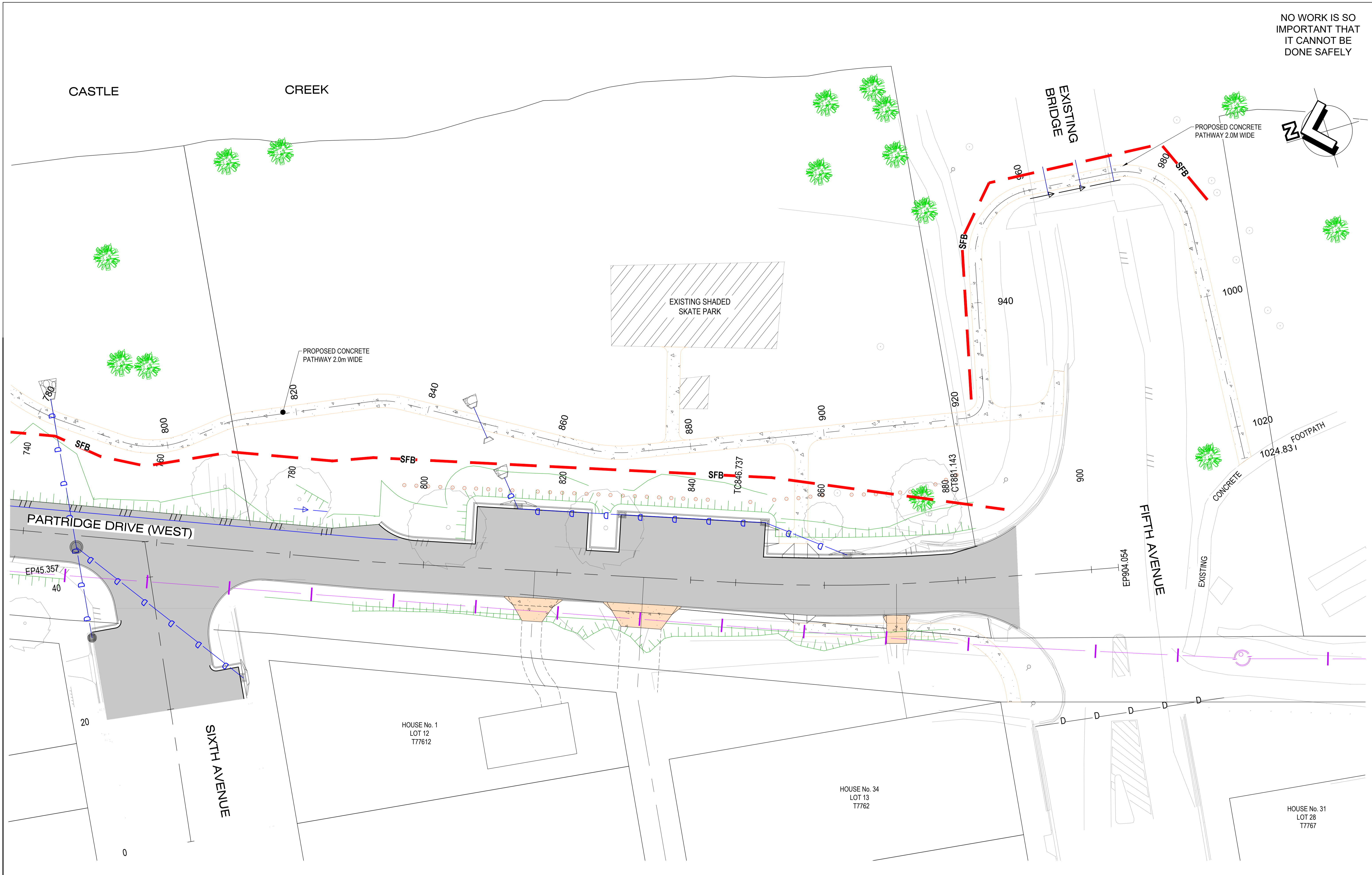
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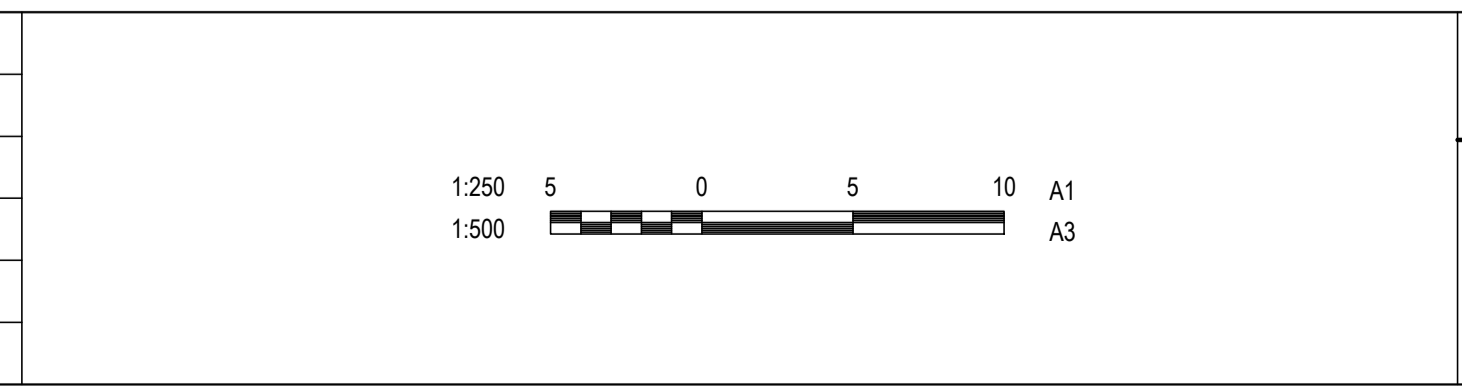
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EROSION AND SEDIMENT CONTROL PLAN SHEET 6 OF 7			
Scale	Dwg. No.	Sheet	Issue
AS SHOWN	2320-405	82 OF 85	1

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No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023



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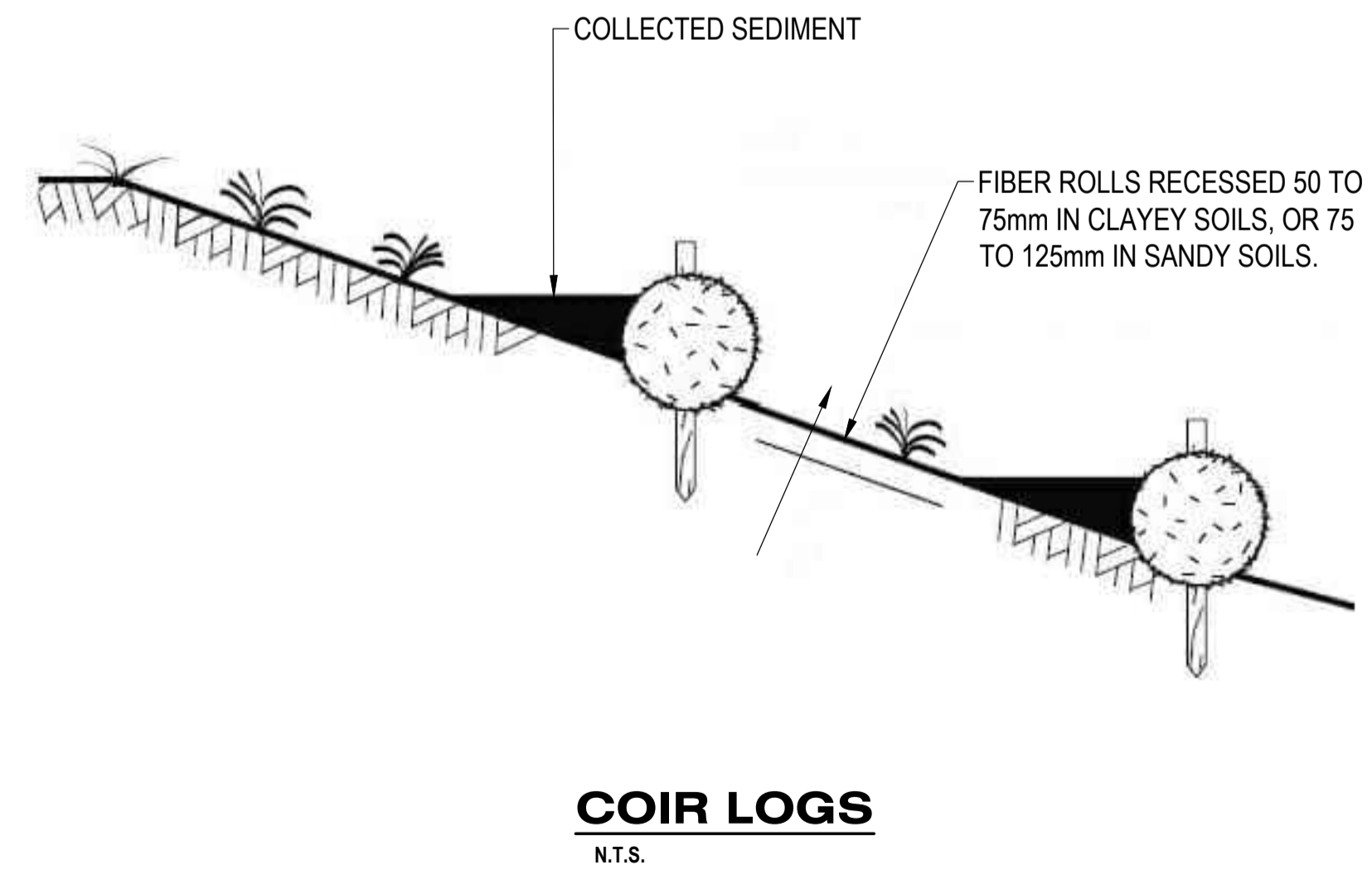
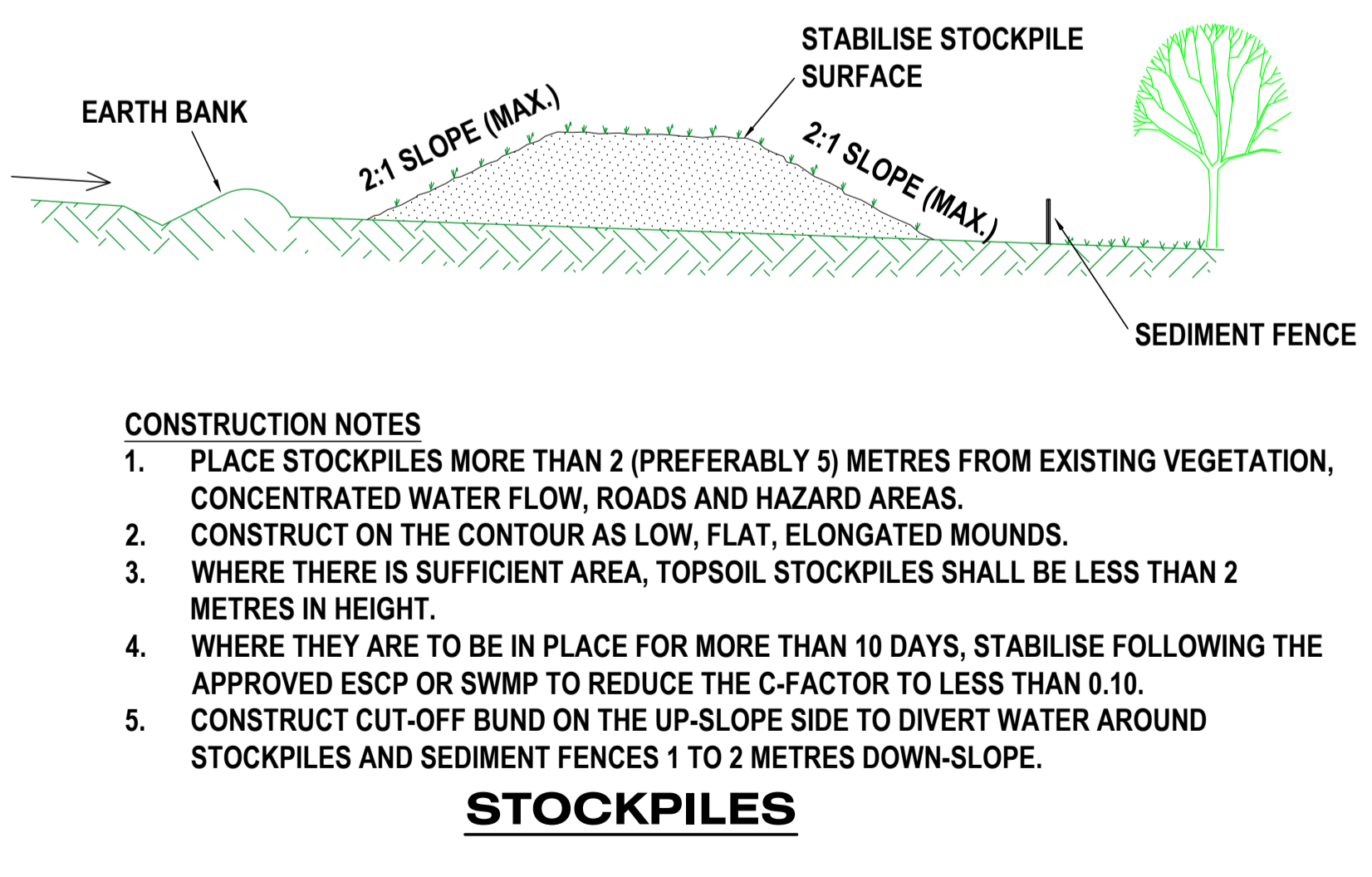
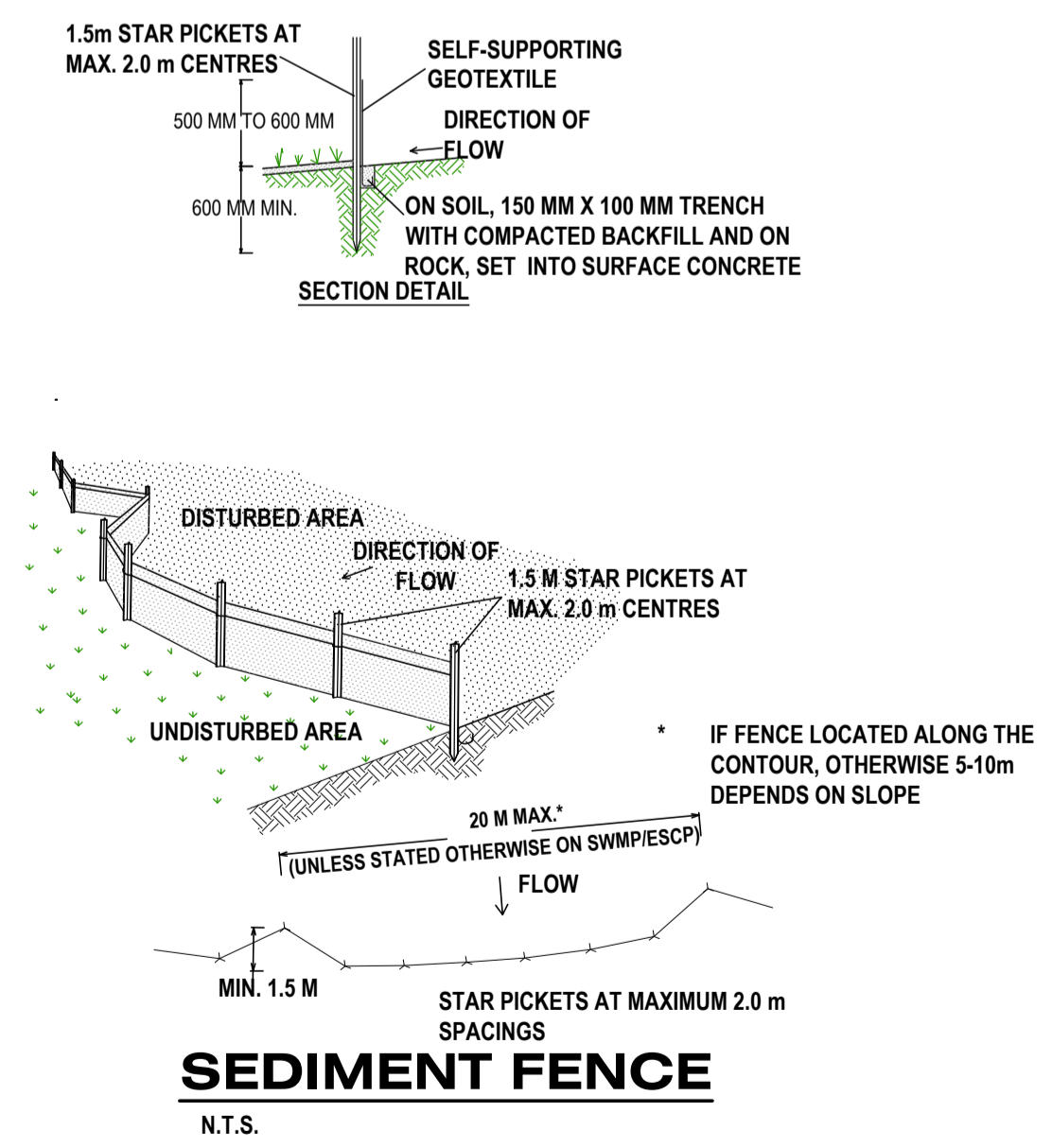
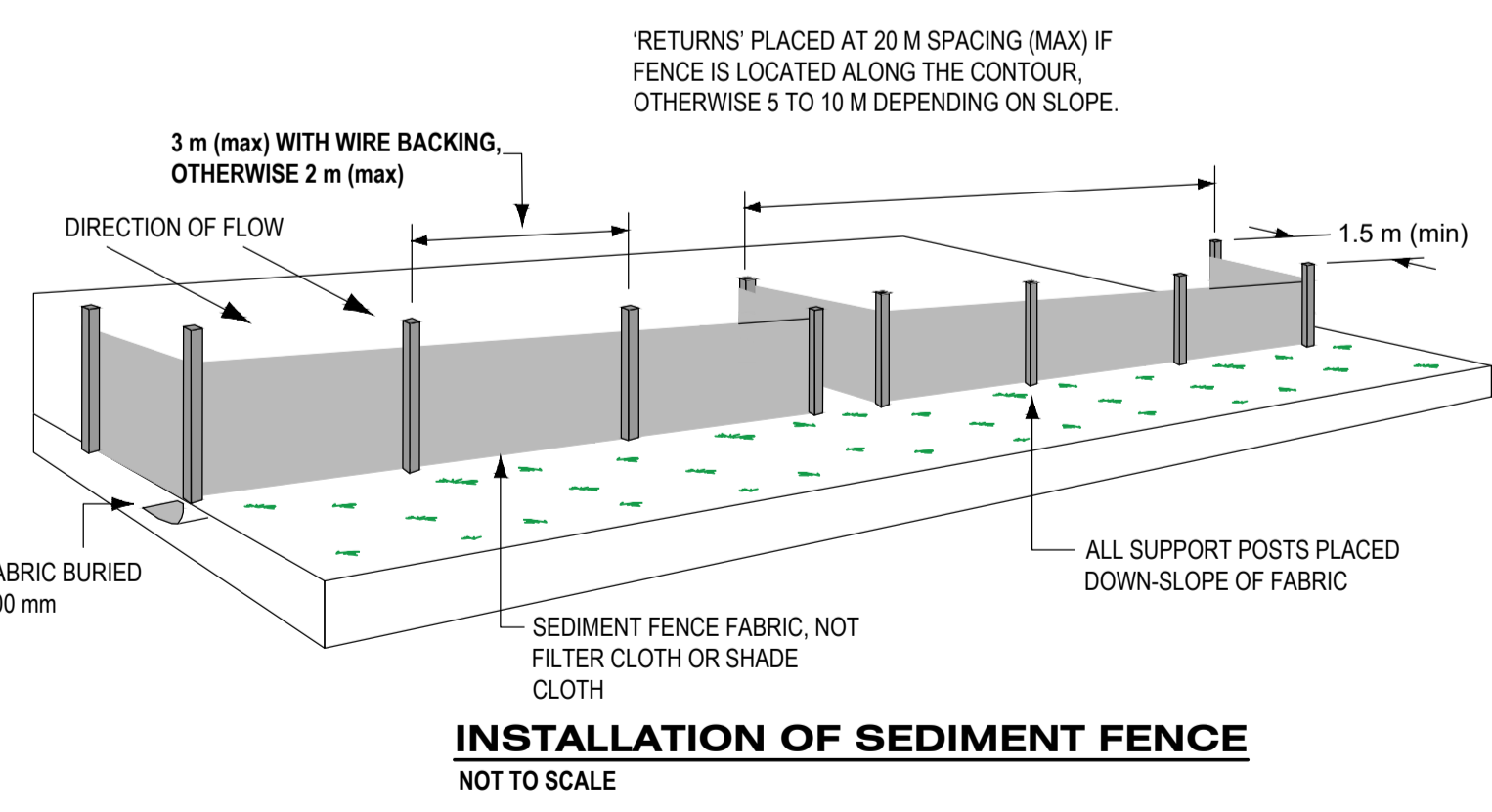
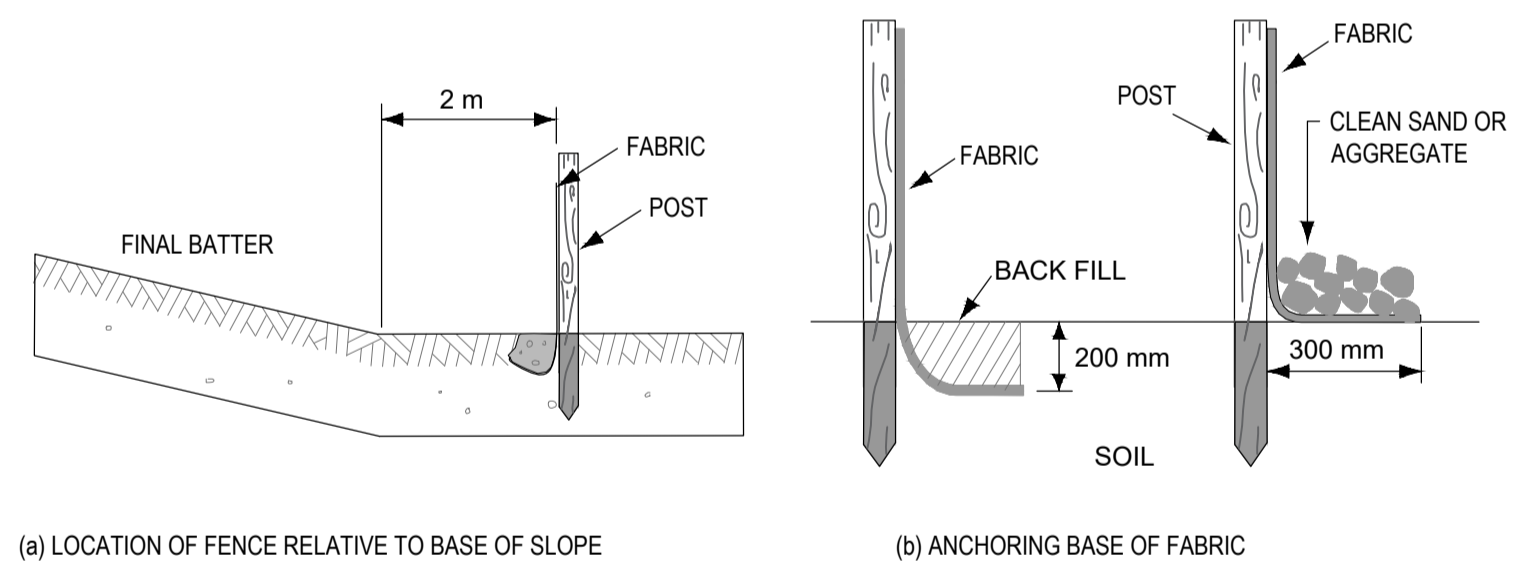
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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS EROSION AND SEDIMENT CONTROL PLAN SHEET 7 OF 7	
Scale AS SHOWN	Dwg. No. 2320-406
Sheet 83 OF 85	Issue 1

SEDIMENT & EROSION CONTROL NOTES

- SE1. GENERAL:
- TEMPORARY DRAINAGE CONTROL. FLOW SHOULD BE DIVERTED AROUND THE WORK SITE WHERE POSSIBLE.
 - ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND BE OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.
 - ALL SEDIMENT & EROSION CONTROL DEVICES MUST BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR. INSPECTIONS SHOULD OCCUR ON A WEEKLY BASIS (MINIMUM), ALONG WITH BEFORE AND AFTER SIGNIFICANT RUNOFF PRODUCING STORMS.
 - ALL DISTURBED LAND MUST BE RENDERED EROSION-PROOF BY THE ESTABLISHMENT OF 80% EFFECTIVE GROUND COVER WITHIN 28 DAYS OF FINAL EARTHWORKS TRIM.
 - IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACES TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL BLANKETS OR TURFED IF EARTHWORKS ARE EXPECTED TO BE DELAYED FOR MORE THAN 14 DAYS.
 - STRAW BALE SEDIMENT TRAPS ARE A SECONDARY OPTION WHICH GENERALLY SHOULD NOT BE USED IF OTHER OPTIONS ARE AVAILABLE.
- SE2. SEDIMENT CONTROL FENCE:
- NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW.
 - NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6 HA PER 100m LENGTH OF FENCE.
 - WOVEN FABRICS ARE PREFERRED, NON-WOVEN FABRICS MAY BE USED ON SMALL WORK SITES, I.E. OPERATIONAL PERIOD LESS THAN 6 MONTHS OR ON SITES WHERE SIGNIFICANT SEDIMENT RUNOFF IS NOT EXPECTED.
 - WHERE FENCES NEED TO BE LOCATED ACROSS THE CONTOUR - REFER IPEAW STANDARD DRAWING D-0040 FOR DETAILS.
 - FENCES ARE REQUIRED 2m MIN FROM TOE OF CUT OR FILL BATTERS, WHERE NOT PRACTICAL ONE FENCE CAN BE AT THE TOE WITH A SECOND FENCE 1M MIN AWAY. FENCE SHOULD NOT BE LOCATED PARALLEL WITH TOE IF CONCENTRATION OF FLOW WILL OCCUR BEHIND THE FENCE.
- SE3. TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP:
- ADJACENT STORMWATER RUNOFF TO BE DIVERTED AWAY FROM ENTRY/EXIT.
 - WHEEL - WASH OR SPRAY UNIT MAY BE REQUIRED DURING WET WEATHER.
- SE4. SAFETY ISSUES MUST BE CONSIDERED AT ALL TIMES, INCORPORATE TRAFFIC CONTROL DEVICES .
- SE5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN ADDRESSED AS STIPULATED IN THE ENVIRONMENTAL MANAGEMENT PLAN. ADDITIONAL OR DIFFERENT SEDIMENT & EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION PHASE TO COMPLY WITH THE ABOVE.
- SE6. TEMPORARY STOCKPILES TO HAVE 1:6 SIDE BATTERS (MAXIMUM) AND BE SHAPED TO ENSURE RUN-OFF IS TREATED AND MANAGED TO THE SATISFACTION OF THE SUPERINTENDENT. ALL EXPOSED STOCKPILE SURFACES TO BE GRASS SEEDDED. SEDIMENT FENCES AND CUT-OFF DRAINS MAY BE REQUIRED.



NOTE:
EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE DESIGNED AND PROVIDED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA) 2018's "BEST PRACTICE EROSION AND SEDIMENT CONTROL FOR BUILDING AND CONSTRUCTION SITE."

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COIR LOGS

MATERIALS

FIBRE ROLLS:
TYPICALLY 200 TO 250mm JUTE, COIR OR STRAW ROLL TIED WITH SYNTHETIC OR BIODEGRADABLE MESH.

STAKES:
MINIMUM 25 x 25mm TIMBER STAKES.

INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- WHEN PLACED ACROSS NON-VEGETATED OR NEWLY SEEDDED SLOPES, THE ROLLS MUST BE PLACED ALONG THE CONTOUR.
- IF PLACED ON OPEN OR LOOSE SOIL, ENSURE THE FIBRE ROLLS ARE TRENCHED 75 TO 125mm IN SANDY SOILS AND 50 TO 75mm IN CLAYEY SOILS.
- ENSURE THE OUTER MOST ENDS OF THE FIBRE ROLL ARE TURNED UP THE SLOPE TO ALLOW WATER TO ADEQUATELY POND UP-SLOPE OF THE ROLL, AND THE MINIMISE FLOW BYPASSING.
- WHEN PLACED ACROSS THE INVERT OF MINOR DRAINS, ENSURE THE SOCKS ARE PLACED SUCH THAT:
 - (i) THE CREST OF THE DOWNSTREAM ROLLS IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM SOCK (IF ANY);
 - (ii) EACH ROLL EXTENDS UP THE CHANNEL BANKS SUCH THAT THE CREST OF THE FIBRE ROLL AT ITS LOWEST POINT IS LOWER THAN THE GROUND LEVEL AT EITHER END OF THE ROLL.
- ENSURE THE ANCHORING STAKES ARE DRIVEN INTO THE END OF EACH ROLL AND ALONG THE LENGTH OF EACH ROLL AT A SPACING NOT EXCEEDING 1.2M OR SIX TIMES THE ROLL DIAMETER, WHICHEVER IS THE LESSER. A MAXIMUM STAKE SPACING OF 0.3M APPLIES WHEN USED TO FORM CHECK DAMS.
- ADJOINING ROLL MUST BE OVERLAP AT LEAST 450MM, NOT ABUTTED.

MAINTENANCE

- INSPECT ALL FIBRE ROLLS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF PRODUCING STORMS OR OTHERWISE AT WEEKLY INTERVALS.
- REPAIR OR REPLACE DAMAGED FIBRE ROLLS.
- REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

REMOVAL

- ALL EXCESSIVE SEDIMENT TRAPPED BY THE ROLLS MUST BE REMOVED FROM THE DRAIN OR SLOPE IF SUCH SEDIMENT IS LIKELY TO BE WASHED AWAY BY EXPECTED FLOWS.
- DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- THE BIODEGRADABLE CONTENT OF THE STRAW ROLLS MAY NOT NECESSARILY NEED TO BE REMOVED FROM THE SITE.
- ALL SYNTHETIC (PLASTIC) MESH OR OTHER NON READILY BIODEGRADABLE MATERIAL MUST BE REMOVED FROM THE SITE ONCE THE SLOPE OR DRAIN IS STABILISED, OR THE ROLLS HAVE DETERIORATED TO A POINT WHERE THEY ARE NO LONGER PROVIDING THEIR INTENDED DRAINAGE OR SEDIMENT CONTROL FUNCTION.

SEDIMENT & EROSION CONTROL PROGRAM

OBJECTIVE/TARGET	THE CONTRACTOR MUST COMPLY WITH ALL STATUTORY REGULATIONS AND MAINTAIN THEM DURING EARTHWORKS/CONSTRUCTION. ALL PROVISIONS AND SPECIFICATIONS OUTLINED WITH THE APPROVED ENVIRONMENTAL MANAGEMENT PLAN MUST BE ADHERED TO, ALONG WITH ALL EROSION AND SEDIMENT CONTROL MEASURES PRESCRIBED WITHIN THESE DRAWINGS BY THE SITE ENGINEER.
MANAGEMENT STRATEGY	THE SITE FOREMAN IS TO IDENTIFY AND CHECK THE DIRECTION OF STORMWATER FLOWS AS SHOWN ON PLAN. PROVIDE BARRIERS AND OTHER MEASURES SHOWN ON PLAN TO PREVENT STORMWATER FLOWS OVER EMBANKMENTS, AND SEDIMENT INTO GULLY PITS.
TASKS/ACTIONS	ERECT SEDIMENTATION BARRIERS AS DETAILED. STRATEGICALLY PLACE CHECK DAMS AROUND GULLY PITS.
PERFORMANCE INDICATORS	THE SITE FOREMAN IS TO CHECK FOR EROSION AND SEDIMENT FLOW AT THE BASE OF EMBANKMENTS AFTER SIGNIFICANT RAINFALL AND SHOULD ASCERTAIN THE WORKING EFFECTIVENESS OF CHECK DAMS DURING THIS WEATHER.
FREQUENCY/DEADLINE	SITE FOREMAN TO MONITOR PERFORMANCE AFTER EVERY HEAVY DOWNFALL.
RESPONSIBILITY	THE SITE FOREMAN IS RESPONSIBLE FOR ALL INSPECTIONS.
REPORTING REVIEW	SITE WORKMEN ARE TO ADVISE THE FOREMAN IF ANY SEDIMENT & EROSION CONTROL DEVICES ARE FAILING.
CORRECTIVE ACTIONS	THE SITE FOREMAN IS TO REPORT AND ORDER THROUGH SUPERVISOR, EXTRA BARRIER OR CHECK DAMS AS REQUIRED.

No.	Revision	Date
1	ISSUE FOR CONSTRUCTION	20.11.2023

DESIGN	CS
DRAWN	CS
DESIGN CHECK	SS

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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS CONTROL LINE SETOUT TABLES			
Scale	Dwg. No.	Sheet	Issue
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