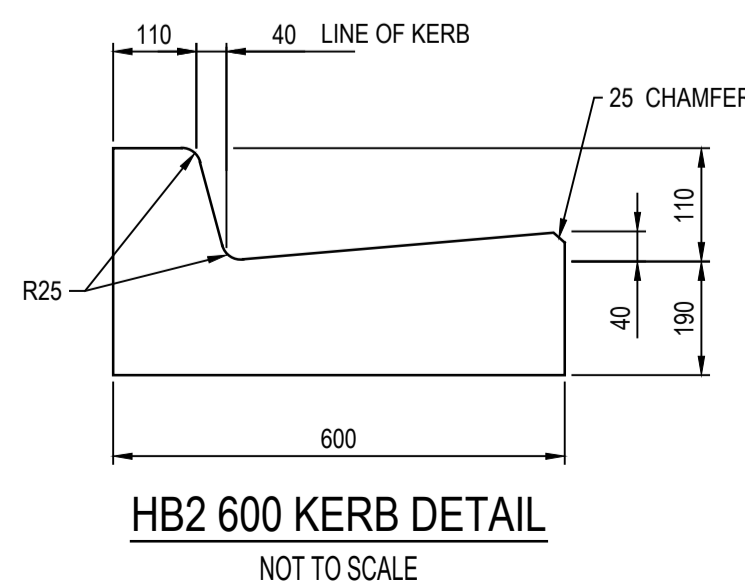
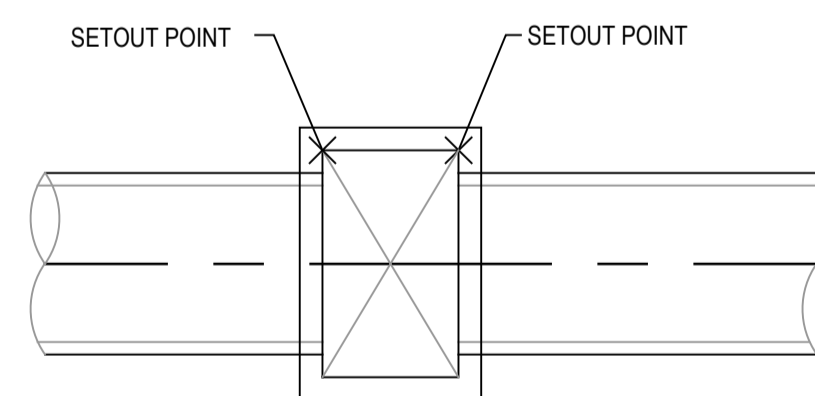
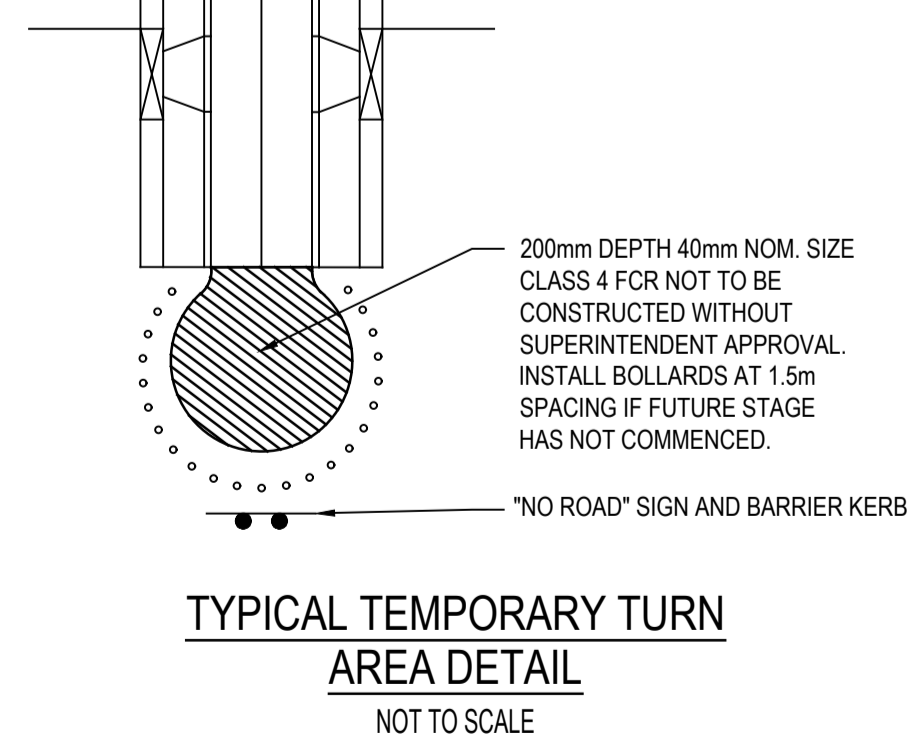
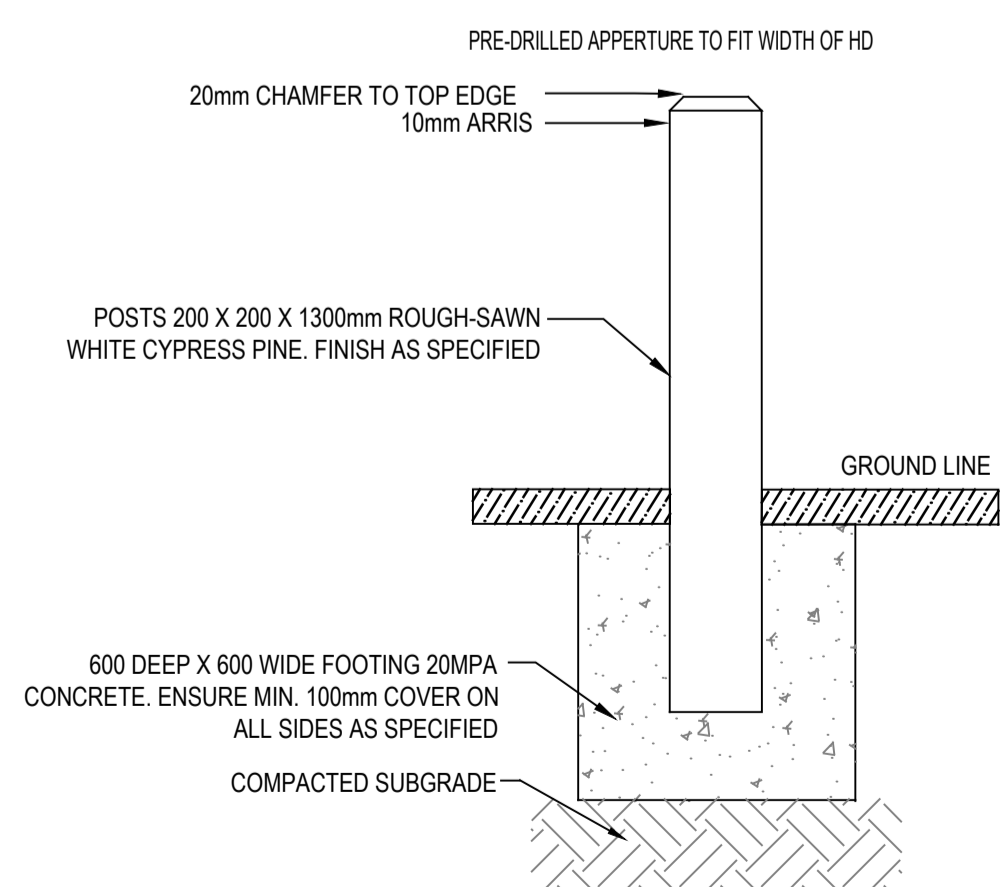



TYPICAL CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 362-H-10 SURVEY BPD DESIGN J.B. DRAWN I.W. CHECKED RGW		KIMBERLEY ESTATE STAGE 5 TYPICAL SECTIONS & DETAILS	
		SCALE AS SHOWN DATUM AHD DATE APR 2023		MUNICIPALITY HUME REFERENCE 10255 E/5 SHEET 02 OF 10 P1	
VER	DATE	REMARKS			

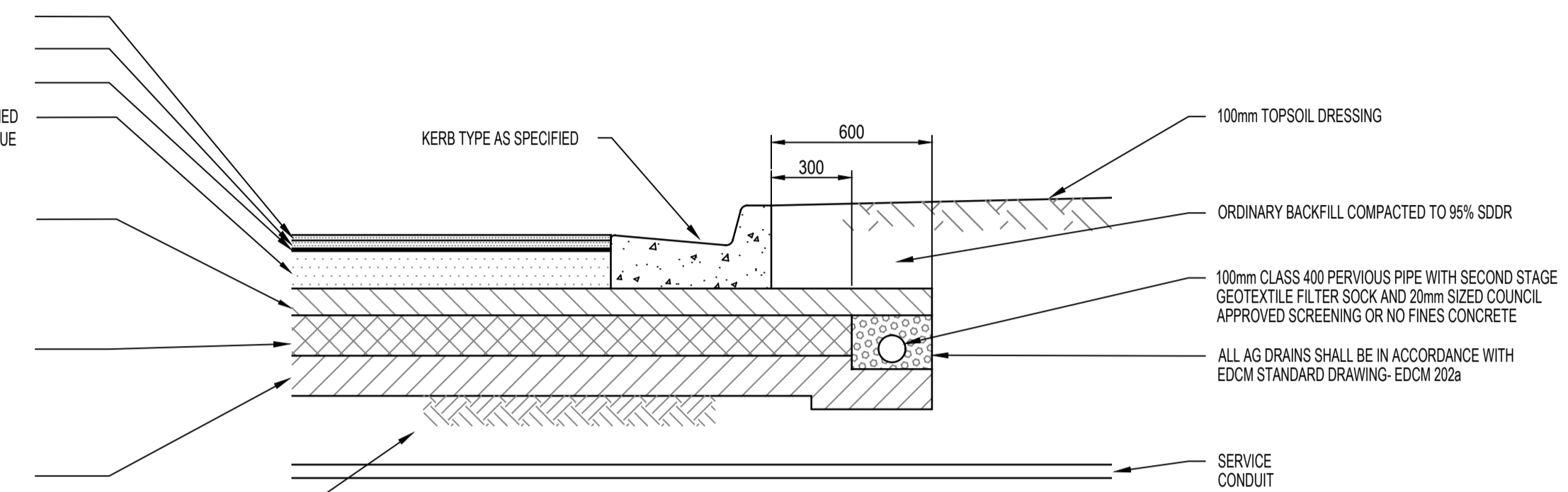
HUME CITY COUNCIL GENERAL NOTES:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH VPA AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE DEVELOPER'S CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRECOMMENCEMENT MEETING.
- PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCE OF QUARRY MATERIAL
 - N.A.T.A. APPROVED TEST RESULTS FOR THE FCR THAT IS TO BE USED
 - IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OHS REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH.
- ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE VPA MANUAL AND HUME CITY COUNCIL SPECIFICATIONS.
- FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AS1289.5.1.1-2003.
- FILLING TO COMPLY WITH AS3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
- NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.
- BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5M DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES/FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
- PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 1:5 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION. TOP DRESSED (100mm LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED.

HYDROMULCH & SEED MIX TO BE:
- 40KG/HA KIKUYU
- 200KG/HA TURF TYPE PERENNIAL RYE
- 100KG/HA CREEPING RED FESCUE
- 1,500KG/HA OF CELLULOSE FIBRE
- SOIL BINDER SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES.(E.G. ORGANIC GAUR TACKIFIERS @ 20-30KG/HA, BASED UPON SITE CONDITIONS).
- GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.
- FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
- ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
- ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
- ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH AS1289.5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750mm OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
- STORMWATER DRAINS UNDER ROAD PAVEMENTS OR OVER 600mm DIAMETER TO BE CLASS 2 R.C OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. STORMWATER DRAINS UP TO AND INCLUDING 600mm DIAMETER BEHIND KERB OR IN EASEMENTS TO BE CLASS 2 R.C OR HDPE. ALL STORMWATER PIPES UP TO AND INCLUDING 750mm DIAMETER TO BE RUBBER RING JOINTED. INTERLOCKING/FUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIAMETER UNLESS NOTED OTHERWISE.
- WHERE NEW ASPHALT, CONCRETE K&C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
- ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 FCR COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH AS1289.5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT
- PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AS1289.5.1.1-2003.
- ALL EXISTING ASSETS AFFECTED BY THE WORKS; E.G. SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- PRIOR TO THE COMPLETION OF THE WORKS ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY CFA, MFB, & ESB). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH EDMC STANDARD DRAWING 202.
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH AS1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH STANDARD DRAWING SD408.
- ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
- ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF AS1743-2001.
- HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS FCR TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.

[RESIDENTIAL - REFER NOTE 5A FOR INDUSTRIAL]
100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.5M FROM THE LOW SIDE OF TITLE BOUNDARY ROAD FRONTAGE AND PROPERTY INLETS 1.0m FROM THE LOW SIDE OF TITLE BOUNDARY REAR EASEMENT UNLESS OTHERWISE SHOWN.
- BLASTING:
BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY.
RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL.
RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTOR AND CONSULTANT CONTACT NAMES AND PHONE NUMBERS. ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN AS2187.2.1993
ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM AS2187.2.1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST.
BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00am AND 3:30pm. BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS.
BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.
- FENCING TO BE PROVIDED ALONG LOT BOUNDARIES ABUTTING RESERVES TO THE SATISFACTION OF THE REPOSIBLE AUTHORITY.
- WHERE SODIC SOILS ARE ENCOUNTERED, SODIC SOIL INVESTIGATIONS SHOULD BE CARRIED OUT BY A QUALIFIED SOIL SCIENTIST AND THE RECOMMENDATIONS OF THE REPORT SHOULD BE APPLIED DURING ROAD & DRAINAGE DESIGN AND CONSTRUCTION.
- LOCATION OF GAS, WATER AND TELSTRAINBN Co CONDUITS ARE TO BE APPROPRIATELY MARKED ON THE FACE OF THE KERB AND CHANNEL WITH G, W, T AND O RESPECTIVELY. ALL CONDUIT ENDS SHALL BE SECURELY PLUGGED. TELSTRAINBN Co, GAS CONDUITS TO BE 50mm CLASS 12 UPVC. WATER CONDUITS TO BE 100mm CLASS 12 UPVC.
- SERVICE CONDUITS TRENCHES UNDER DRIVEWAYS AND FOOTPATHS ARE TO BE 50mm PVC LAID 450mm DEEP AND EXTENDING 250mm EACH SIDE OF DRIVEWAYS/FOOTPATHS.
- THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETER MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- TELSTRAINBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
- DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. CENTRELINE OF PITS AT KERB TP'S TO BE 1.20m OFFSET FROM TP.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER. ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.
- BATTERS SHALL BE IN 1 IN 6 FOR FILL AND 1 IN 6 FOR CUT UNLESS OTHERWISE SHOWN.
- ALL DRIVEWAYS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDMC501, 502 & 503 AND ARE TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.
- ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 4 TO THE SATISFACTION OF THE ENGINEER.
- ALL CONCRETE TO BE 25MPa UNLESS OTHERWISE SPECIFIED.
- 600 B2 KERB & CHANNEL TO BE USED IN HUME CITY COUNCIL
- FEATURE PAVING SHOWN THUS TO CONSIST OF:
 - COLOURED ASPHALT TO BE DETERMINED.
- CONCRETE (LONG DRIVES) TO CONSIST OF:
 - 200mm DEPTH CONCRETE (25MPa) WITH SL82 REINFORCEMENT MESH WITH 50mm TOP COVER.
 - 100mm COMPACTED DEPTH OF 20mm CLASS 3 FCR
- STANDARD FOOTPATH AS PER EDMC401 & TO CONSIST OF:
 - 125mm CONCRETE (25MPa) REINFORCED WITH SL72 MESH PLACED WITH 50mm TOP COVER.
 - 50mm THICK, 20mm NOMINAL SIZE CLASS 3 FCR COMPACTED TO 98%.
- SHARED FOOTPATH AS PER EDMC401 & TO CONSIST OF:
 - 125mm CONCRETE (25MPa) REINFORCED WITH SL72 MESH PLACED WITH 50mm TOP COVER.
 - 50mm THICK, 20mm NOMINAL SIZE CLASS 3 FCR COMPACTED TO 98%.
- CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING, STRUTTING AND DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION AND PROTECT THE PUBLIC FROM THE WORKS.
- THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.
- PROVIDE A 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND A MUNICIPAL RESERVE. PALINGS TO BE ON THE RESERVE SIDE AND STAINED IN A DARK GREEN COLOUR ON THE SIDE FACING THE RESERVE TO THE SATISFACTION OF COUNCIL.
- EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES

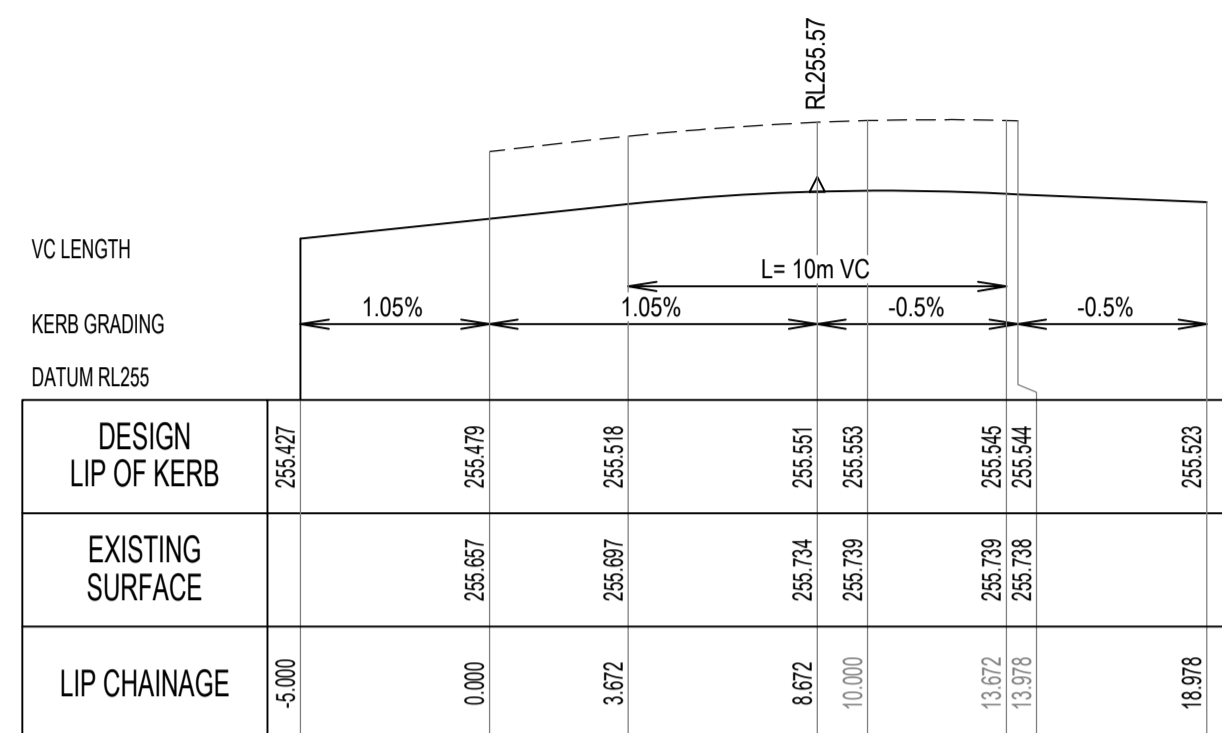
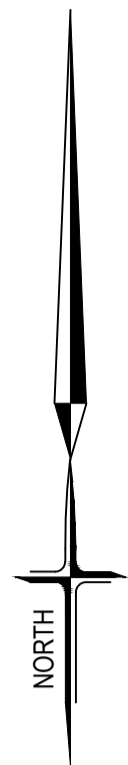
- 20mm COMPACTED DEPTH 7mm NOMINAL SIZE TYPE 'L' ASPHALT WITH C320 BINDER
- 30mm COMPACTED DEPTH 10mm NOMINAL SIZE TYPE 'N' ASPHALT WITH C320 BINDER
- 10mm SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINOUS PRIME
- 140mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 FINE CRUSHED ROCK COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT
- 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 98% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT
- 150mm CAPPING LAYER - COMPACTED DEPTH SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT, A PERCENTAGE SWELL < 1.5% AND MAXIMUM HYDRAULIC CONDUCTIVITY OF 5 x 10⁻¹⁰ms.
- 150mm CONSTRUCTION LAYER - SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT, A PERCENTAGE SWELL OF >1.5% AND MAXIMUM HYDRAULIC CONDUCTIVITY OF 5 x 10⁻¹⁰ms. TOTAL PAVEMENT DEPTH 600mm
- SUBGRADE - NATURAL SILTY CLAY TESTED TO CONFIRM AN IN-SITU CBR OF AT LEAST 2% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR >2%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT.



PAVEMENT DETAILS
ALL OTHER ROADS - 600mm DEPTH
SHADED AS [] ON SHEET 02 PLAN

SPECIFICATION FOR SAMI SEAL
THE SAMI TREATMENT SHOULD CONSIST OF A SIZE 10 SPRAYED SEAL USING CLASS S18RF BITUMEN CRUMB RUBBER BINDER PLACED AT AN APPLICATION RATE > 1.8/m² AND COVERED WITH A LIGHT APPLICATION OF PRE-COATED SIZE 10 AGGREGATE. THE CLASS S18RF BINDER SHALL BE PRODUCED USING NOT LESS THAN 20 PARTS OF CRUMBLED RUBBER (18%) BY MASS OF BINDER. THE VOLUME OF CARRIER OIL USED BEFORE ANY CUTTING OIL IS ADDED SHALL NOT EXCEED 4 PARTS BY VOLUME OF BINDER.
IT IS IMPORTANT THAT THERE IS NO LOOSE AGGREGATE REMAINING ON THE SAMI SURFACE WHEN THE STRUCTURAL COURSE ASPHALT IS PLACED SO AS TO ENSURE A STRONG BOND BETWEEN THE SAMI TREATMENT AND THE SUBSEQUENT ASPHALT LAYER. THE SAMI TREATMENT SHALL BE PRECEDED BY PLACEMENT OF A BITUMINOUS PRIME, AND NOT A PRIMER SEAL, APPLIED TO THE UNDERLYING UNBOUND BASE MATERIAL.

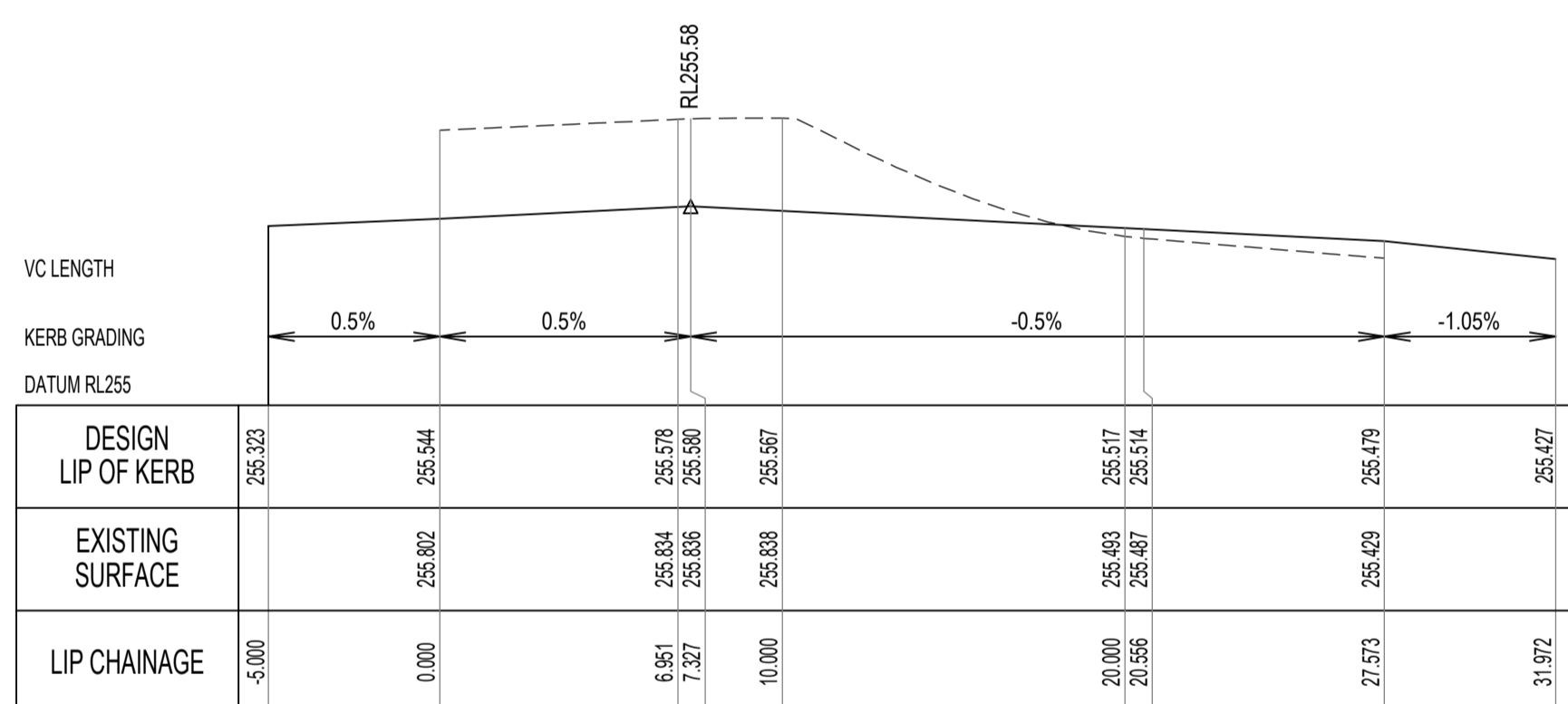
AMENDMENTS			breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
	MELWAY REF.	362-H-10				
	SURVEY	BPD				
	DESIGN	J.B				
	DRAWN	I.W	KIMBERLEY ESTATE STAGE 5 PAVEMENT COMPOSITION	MUNICIPALITY HUME		
	CHECKED	RGW		REFERENCE 10255 E/S		
VER	DATE	REMARKS	SCALE AS SHOWN DATUM AHD	DATE APR 2023	SHEET 03 OF 10	<i>P1</i>



KERB LIP LONGITUDINAL SECTION

RETURN 'A'

HORIZONTAL SCALE 1:200 AT A1 SIZE
VERTICAL SCALE 1:20 AT A1 SIZE



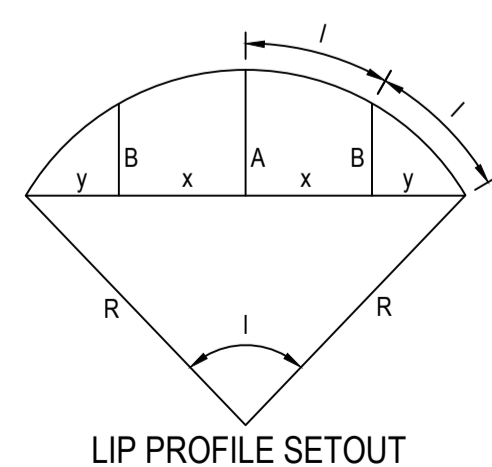
KERB LIP LONGITUDINAL SECTION

RETURN 'B'

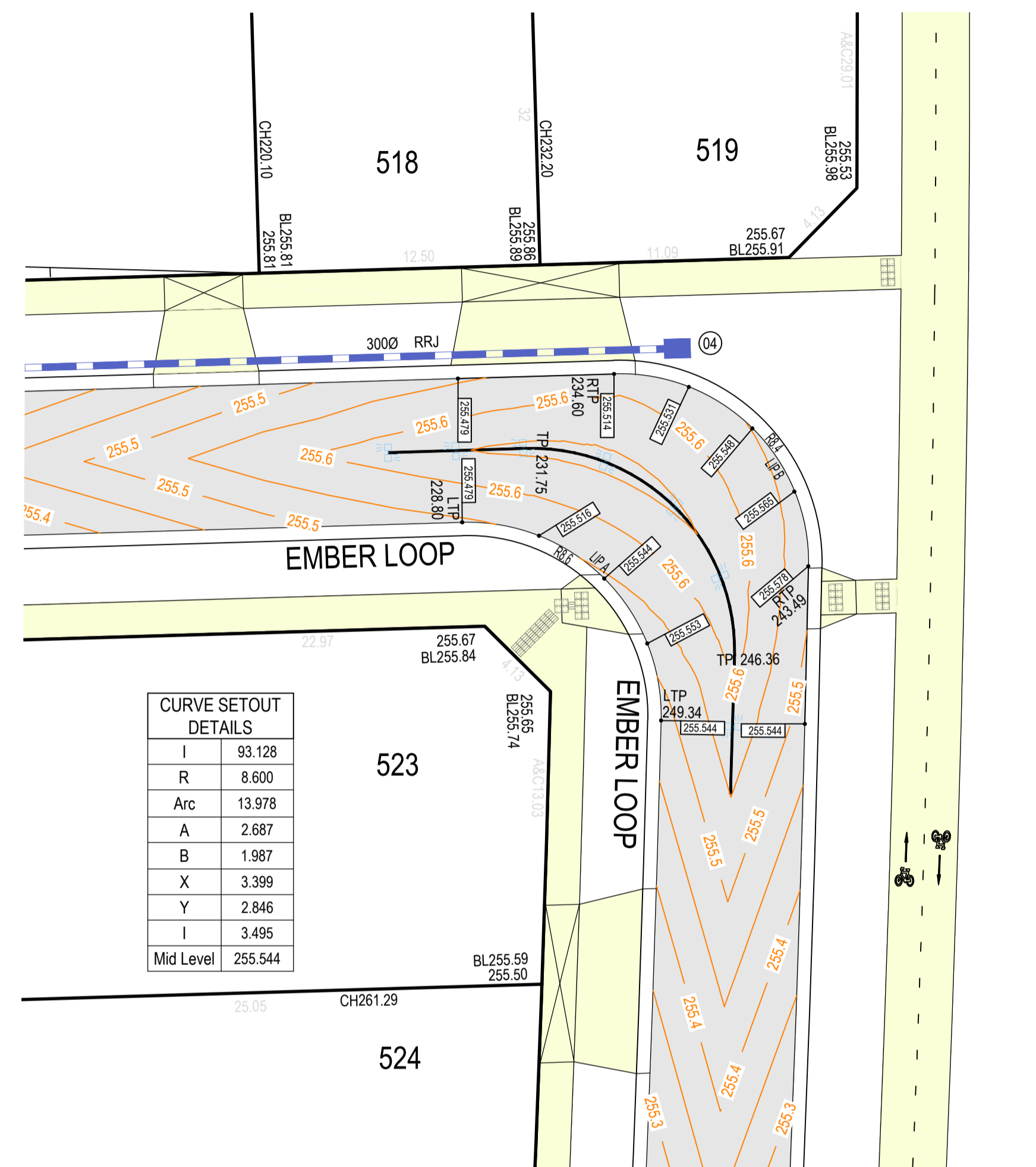
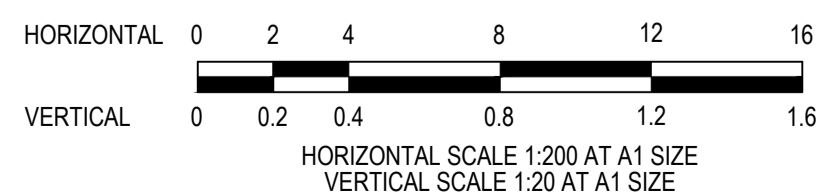
HORIZONTAL SCALE 1:200 AT A1 SIZE
VERTICAL SCALE 1:20 AT A1 SIZE

NOTES

- a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.
- b) INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPMS PLACED AT 6.00m CTS
- c) HAZARD / DIRECTIONAL TGS'S SHOWN THUS / AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGS'S SHALL CONFORM TO AS1428.4
- d) PROVIDE EMERALD GREEN COLOURED HIGH FRICTION SURFACE TREATMENTS ALONG SHARED PATH DENOTED THUS: SURFACE TREATMENT MUST COMPLY WITH VICROADS STANDARD SECTION 430.
- e) STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE SLEEVES
- f) SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
BWLM - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING
- g) RETURN & ELBOW LIP OF KERB CHAINAGES PREFIXED WITH AN "L" (eg LTP35.83)



LIP PROFILE SETOUT

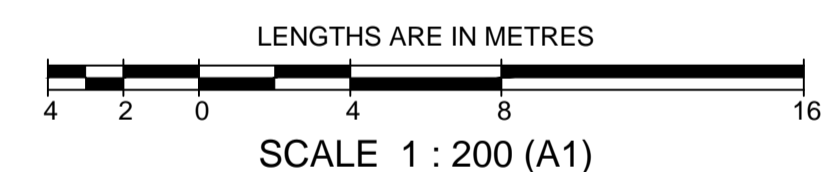


CURVE SETOUT DETAILS

I	93.128
R	8.600
Arc	13.978
A	2.687
B	1.967
X	3.399
Y	2.846
I	3.495
Mid Level	255.544

INTERSECTION DETAILS

SCALE 1:200



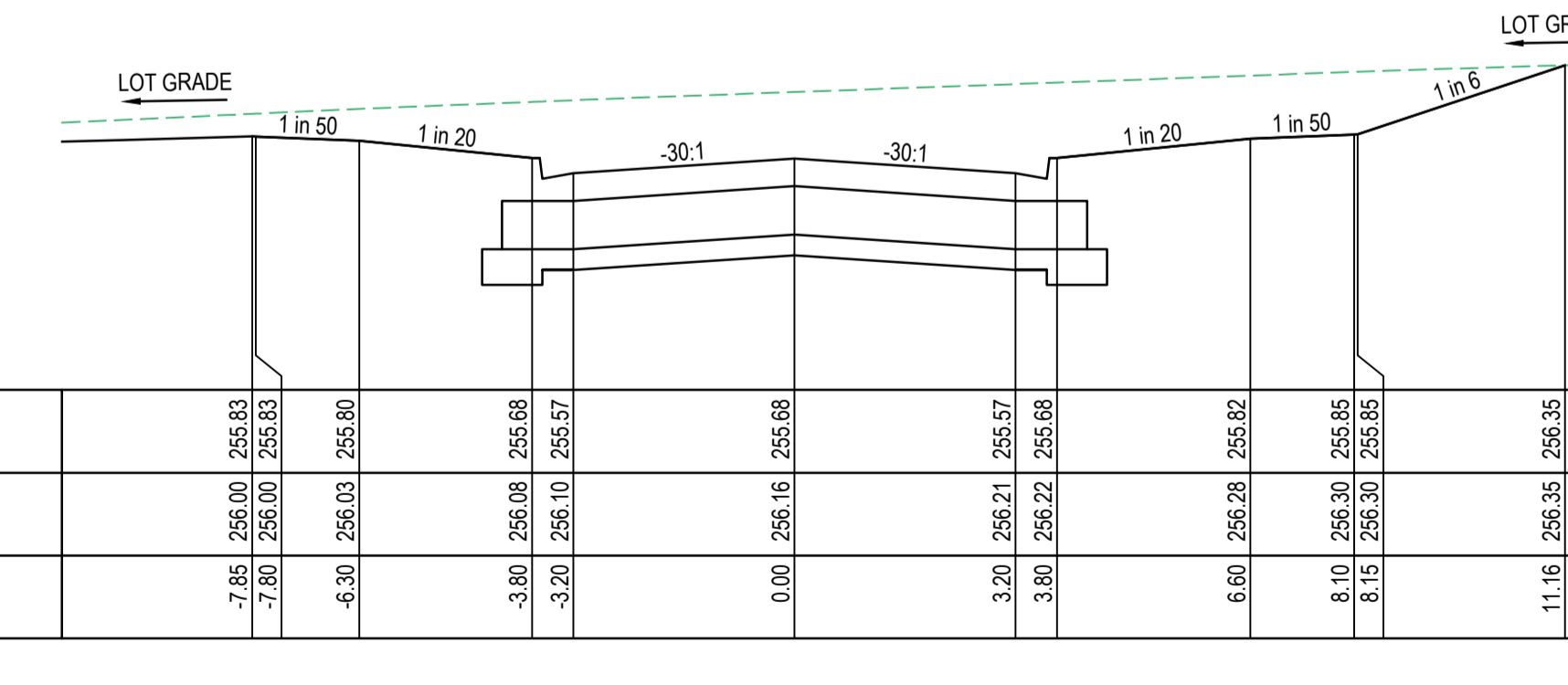
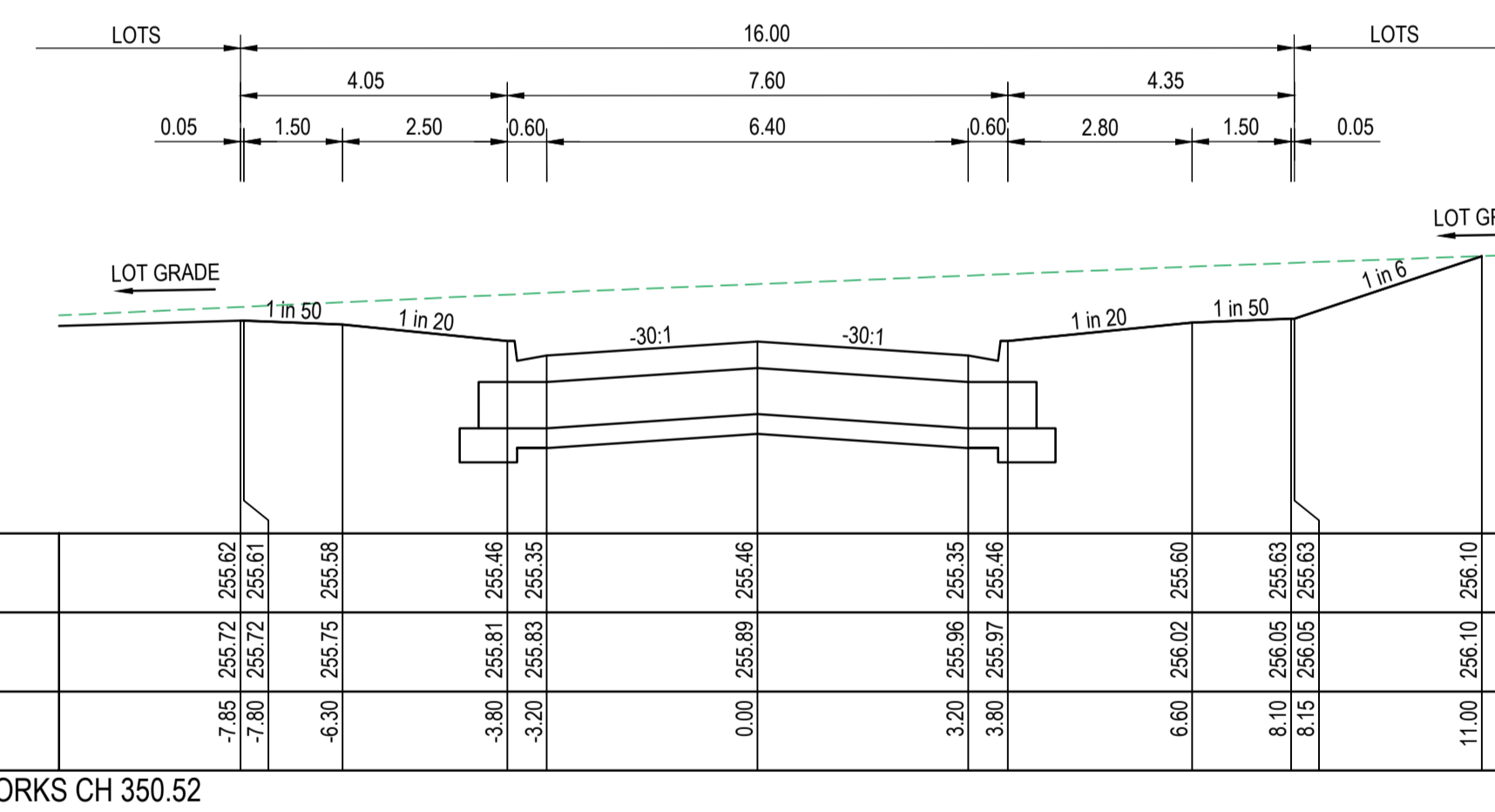
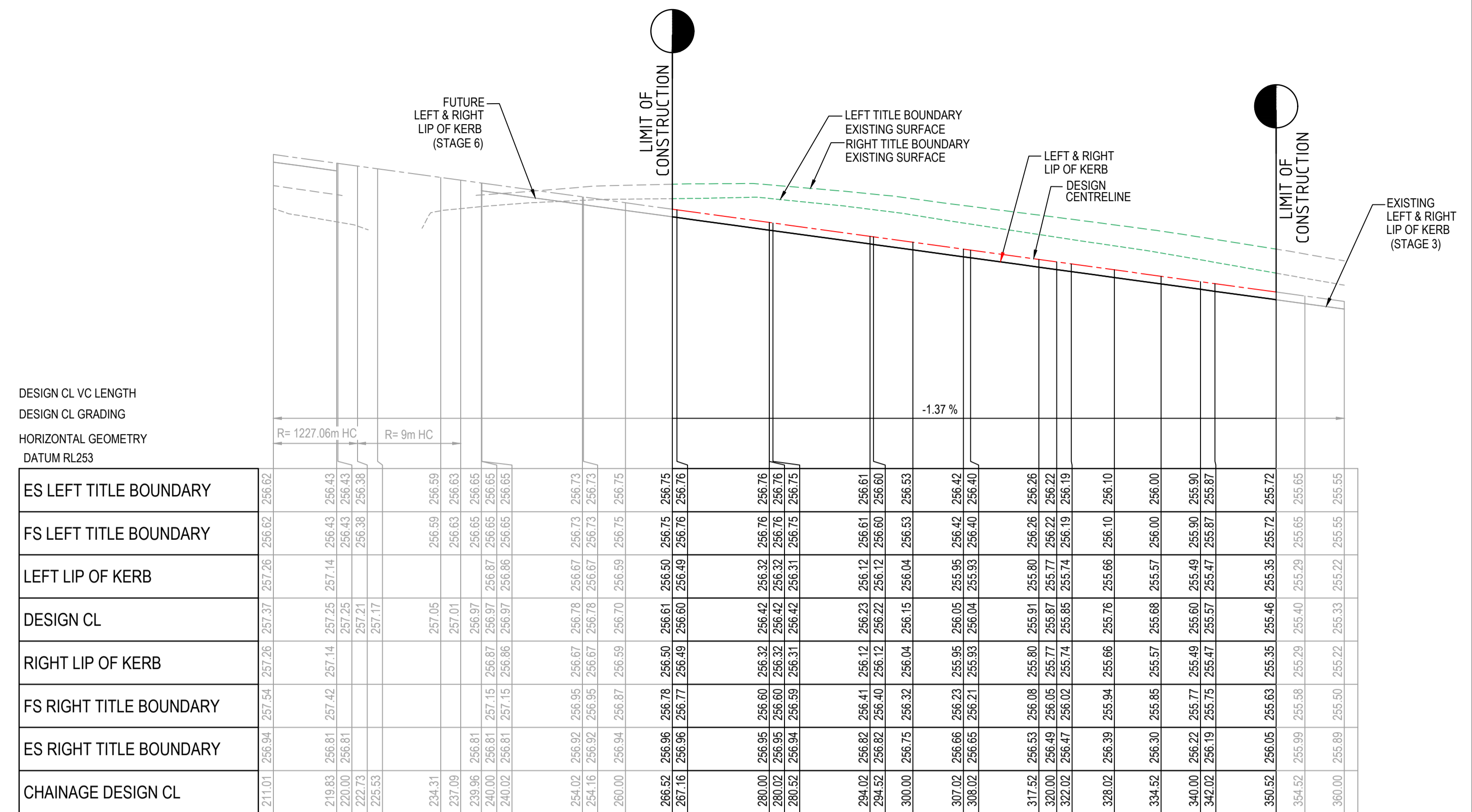
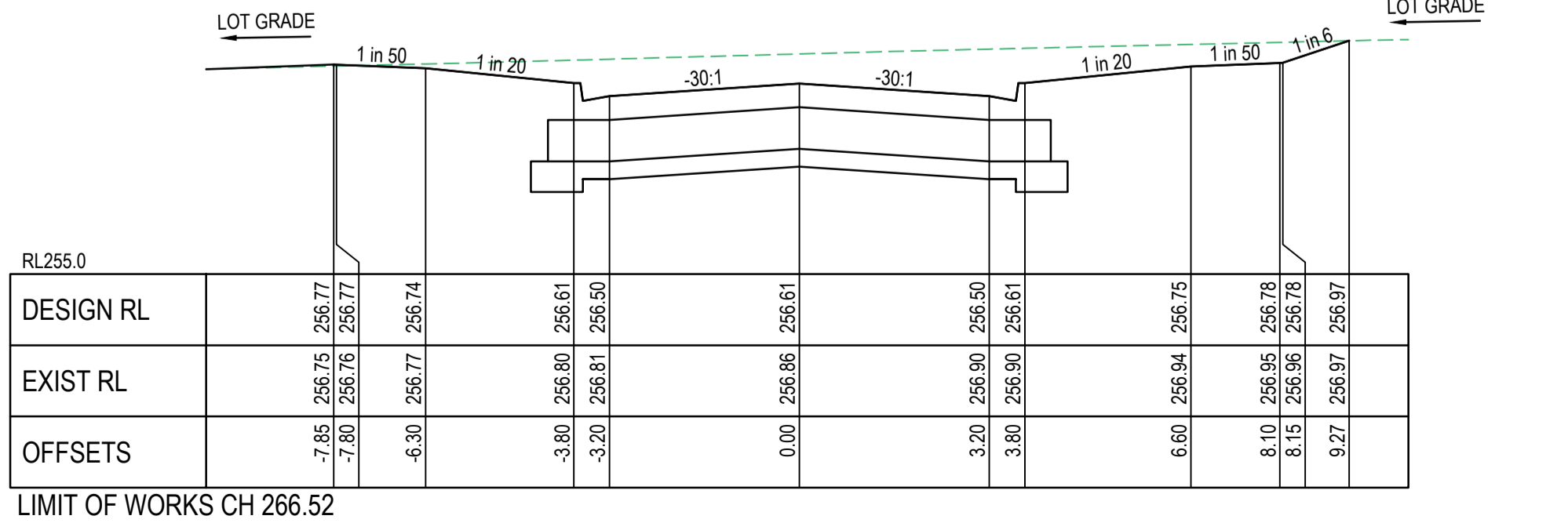
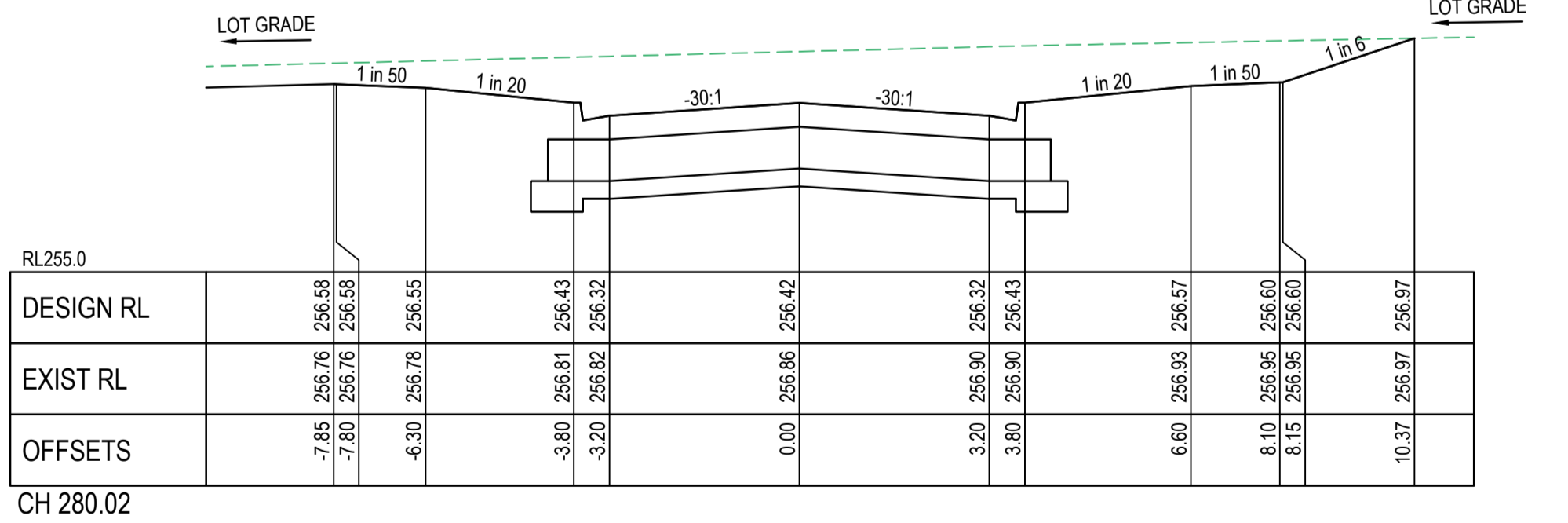
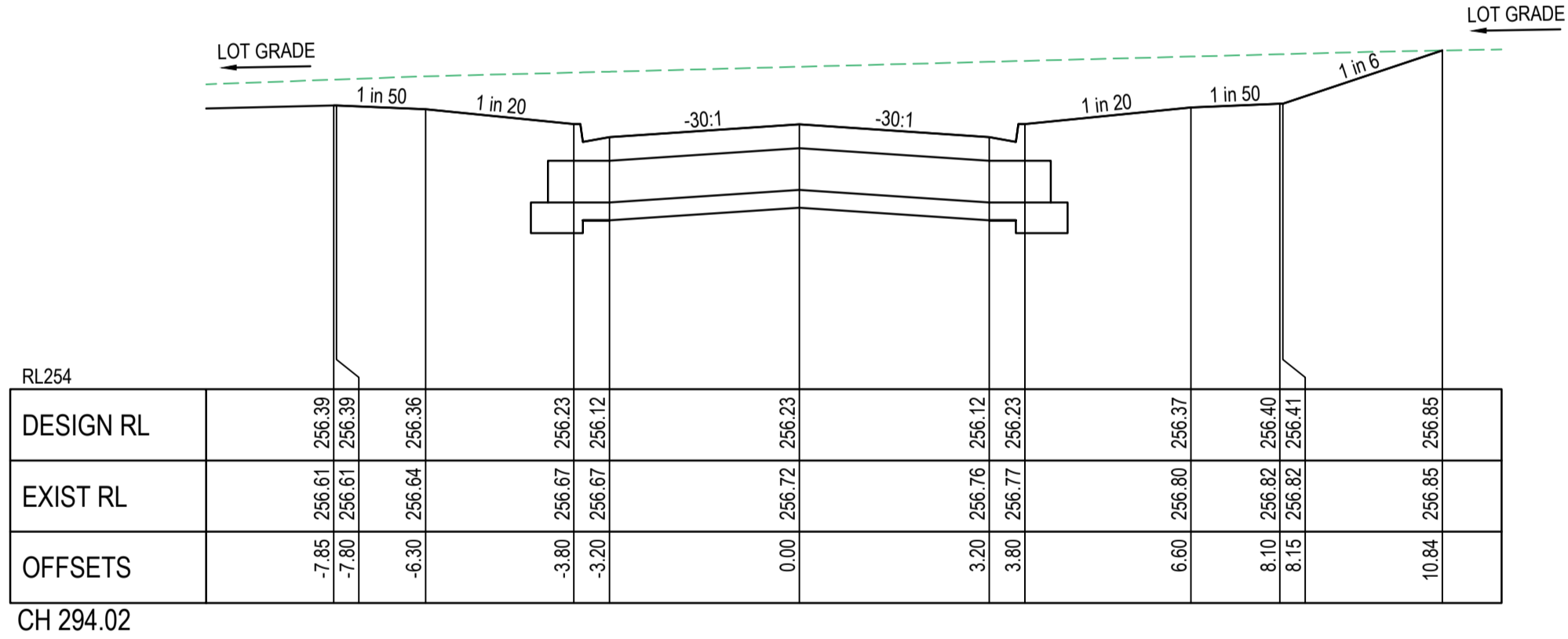
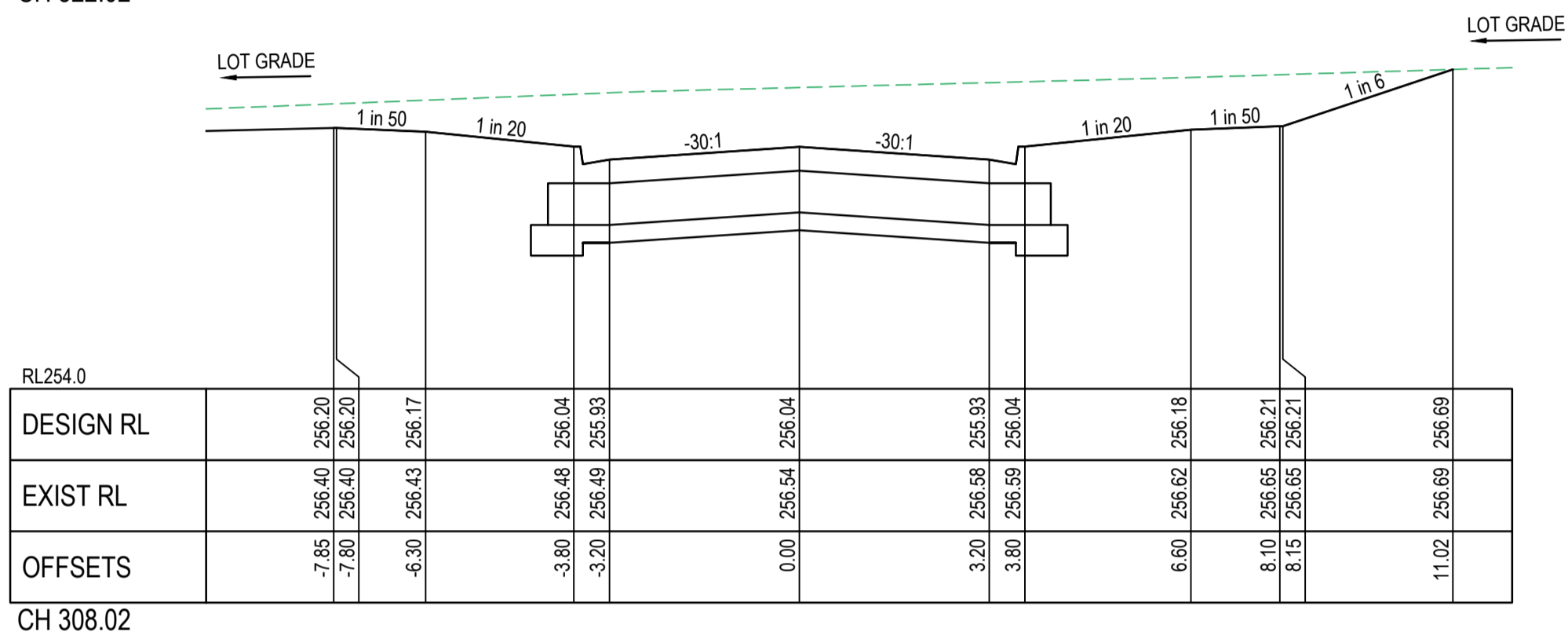
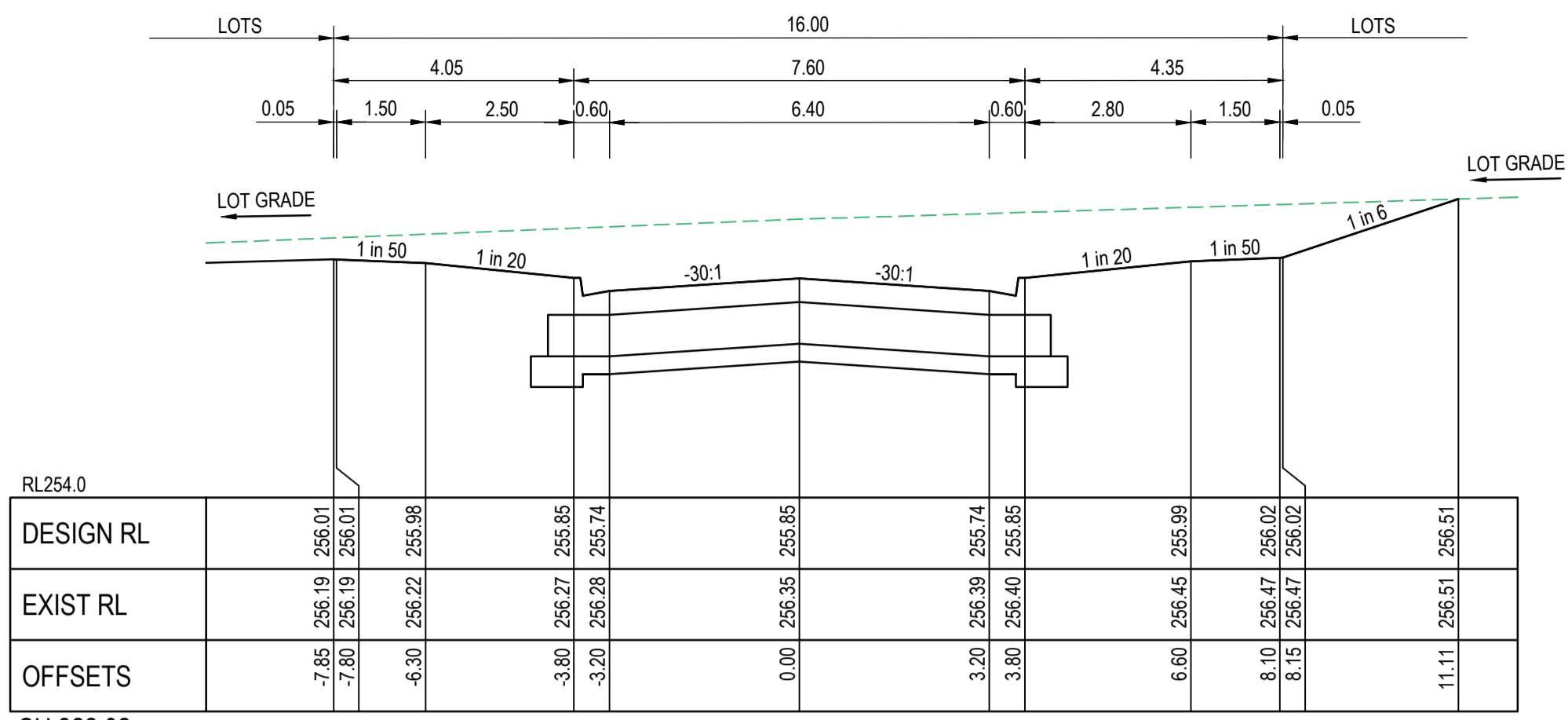
CURVE SETOUT DETAILS

I	92.801
R	8.400
Arc	13.605
A	2.607
B	1.928
X	3.309
Y	2.774
I	3.401
Mid Level	255.548

SYMBOL LEGEND

Drains		Prop		Ex/Natural/FS Level	+28.57
Main Drains		Prop Stage		FS @ Building Line	+BL28.57
Sewer < 3000				Top/Toe of Batter	+TOP28.57
Sewer >= 3000				Top Ret. Wall Level	+TW28.57
Water (DW)				100yr Flood Level	+FL28.57
Water (NDW)				Fill Proposed (<0.3m/>0.3m)	
House Drain				Cut Proposed	
Property Inlet				Asphalt Surface Prop	
Street Sign				Concrete Surface Prop (Paths/Driveways/Slabs)	
FSM				Tree To Be Removed	
Rock Ret Wall				Tree To Be Retained with Tree Protection Zone (TPZ)	
Sleeper Ret Wall					
Conduits 50mm					
Conduits 100mm					
Street Tree without/with Passive Irrigation (Refer Detail)					
Ex Drains					
Ex Water DW/NDW					
Ex Sewer/Gas					
Ex Elect/Comm					
Ex Optic Fibre					

AMENDMENTS			breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
	MELWAY REF.	362-H-10	KIMBERLEY ESTATE STAGE 5 INTERSECTION DETAIL PLANS		MUNICIPALITY	HUME				
	SURVEY	BPD			REFERENCE	10255 E/5				
	DESIGN	J.B	SCALE	AS SHOWN	DATUM	AHD	DATE	APR 2023	SHEET	04 OF 10
DRAWN	I.W	CHECKED	RGW	DATE	APR 2023	SHEET	04 OF 10	P1		

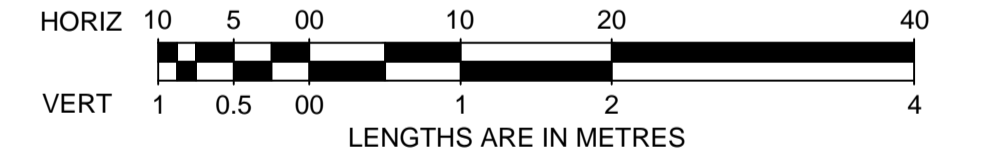


GOLDIE LOOP

LONGITUDINAL SECTION

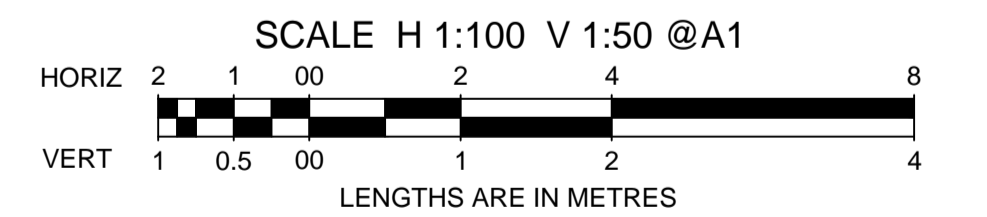
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VERTICAL 1:50

SCALE H 1:500 V 1:50 @A1



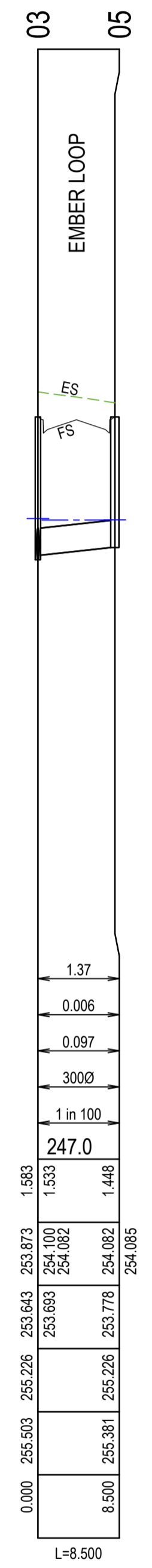
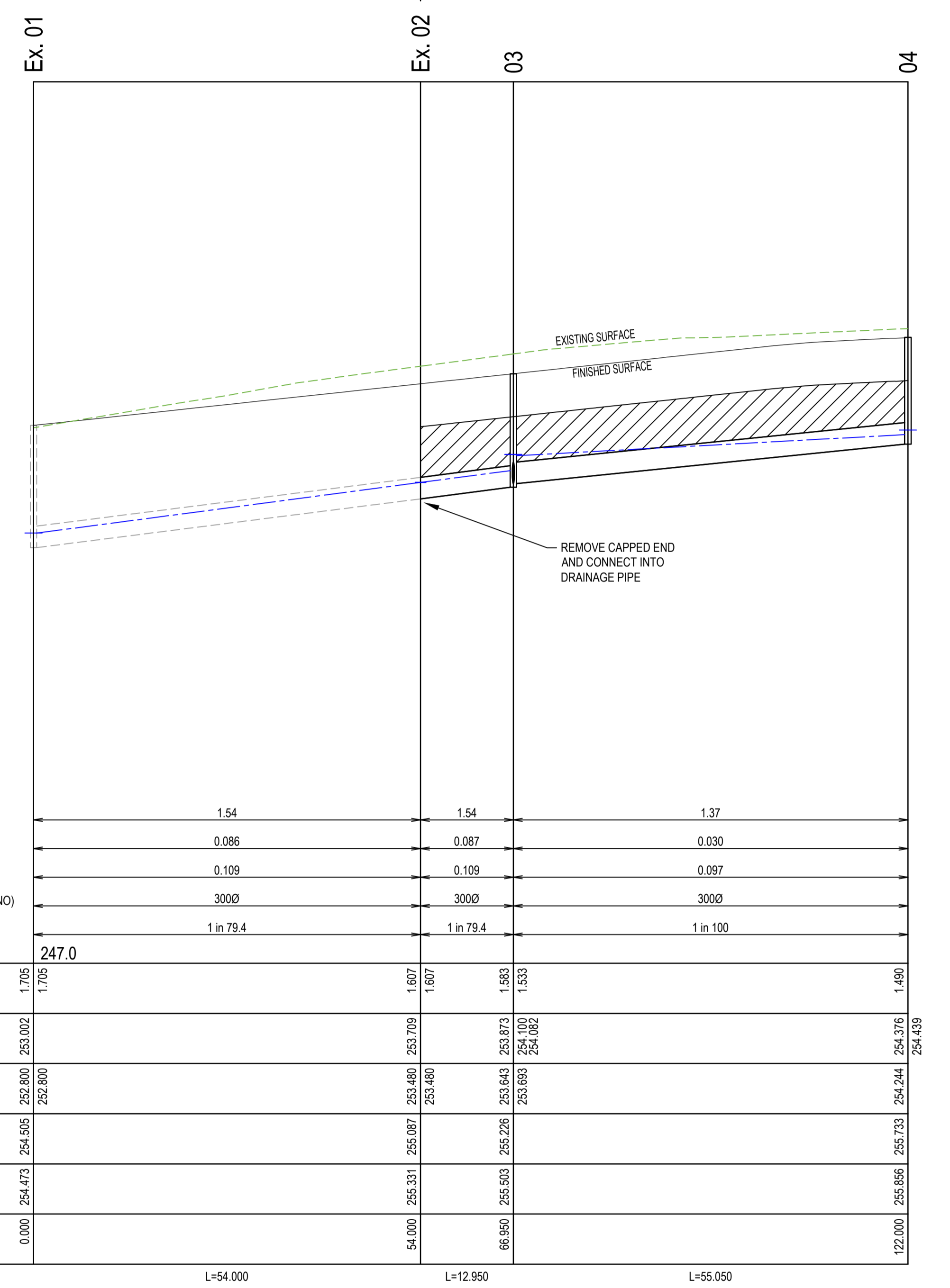
CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

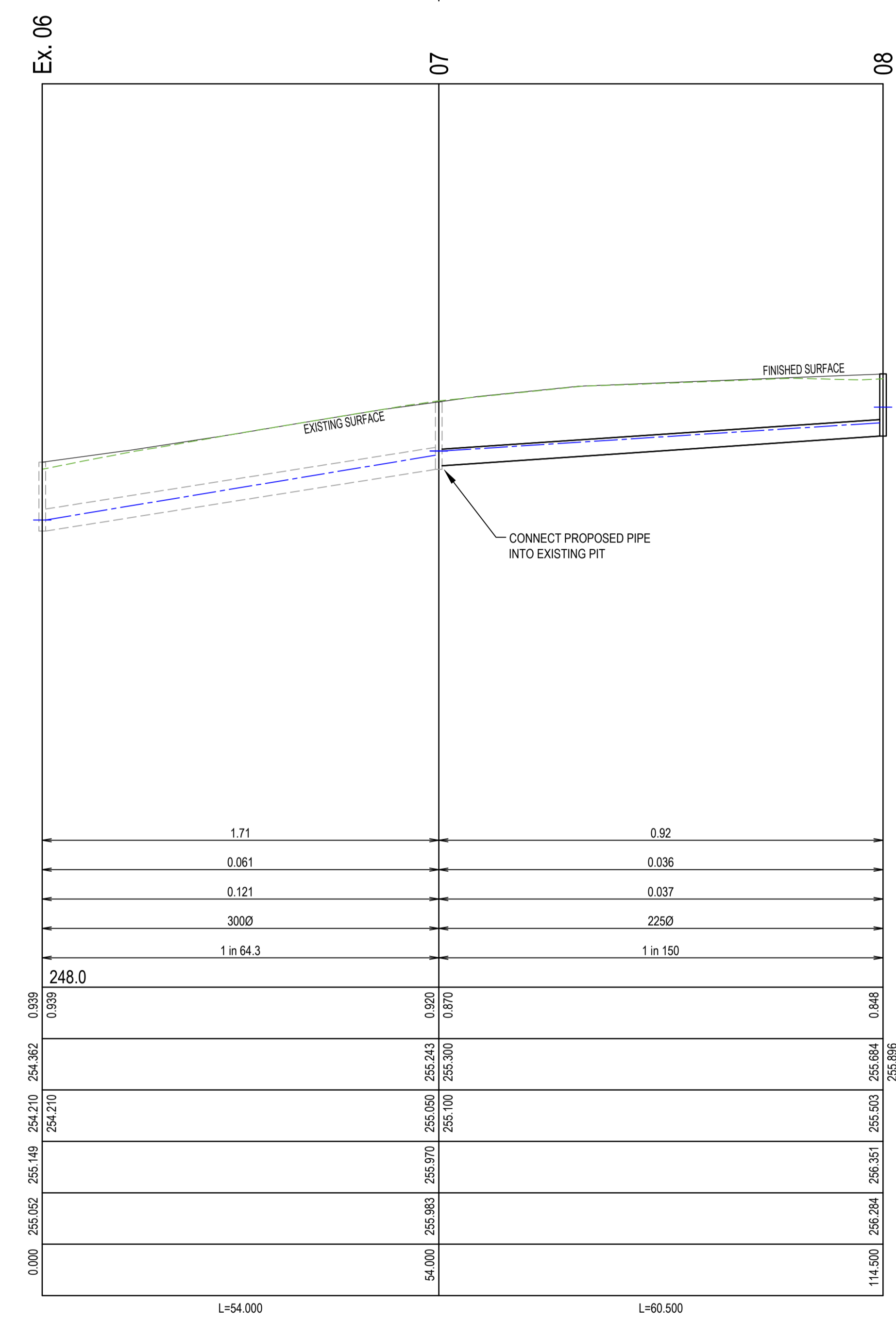


AMENDMENTS	VER	DATE	REMARKS	<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p> <p>MELWAY REF. 362-H-10</p> <p>SURVEY BPD</p> <p>DESIGN J.B</p> <p>DRAWN I.W</p> <p>CHECKED RGW</p> <p>SCALE AS SHOWN</p> <p>DATUM AHD</p> <p>DATE APR 2023</p> <p>SHEET 06 OF 10</p>	<p>1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310</p> <p>MUNICIPALITY HUME</p> <p>REFERENCE 10255 E/5</p>

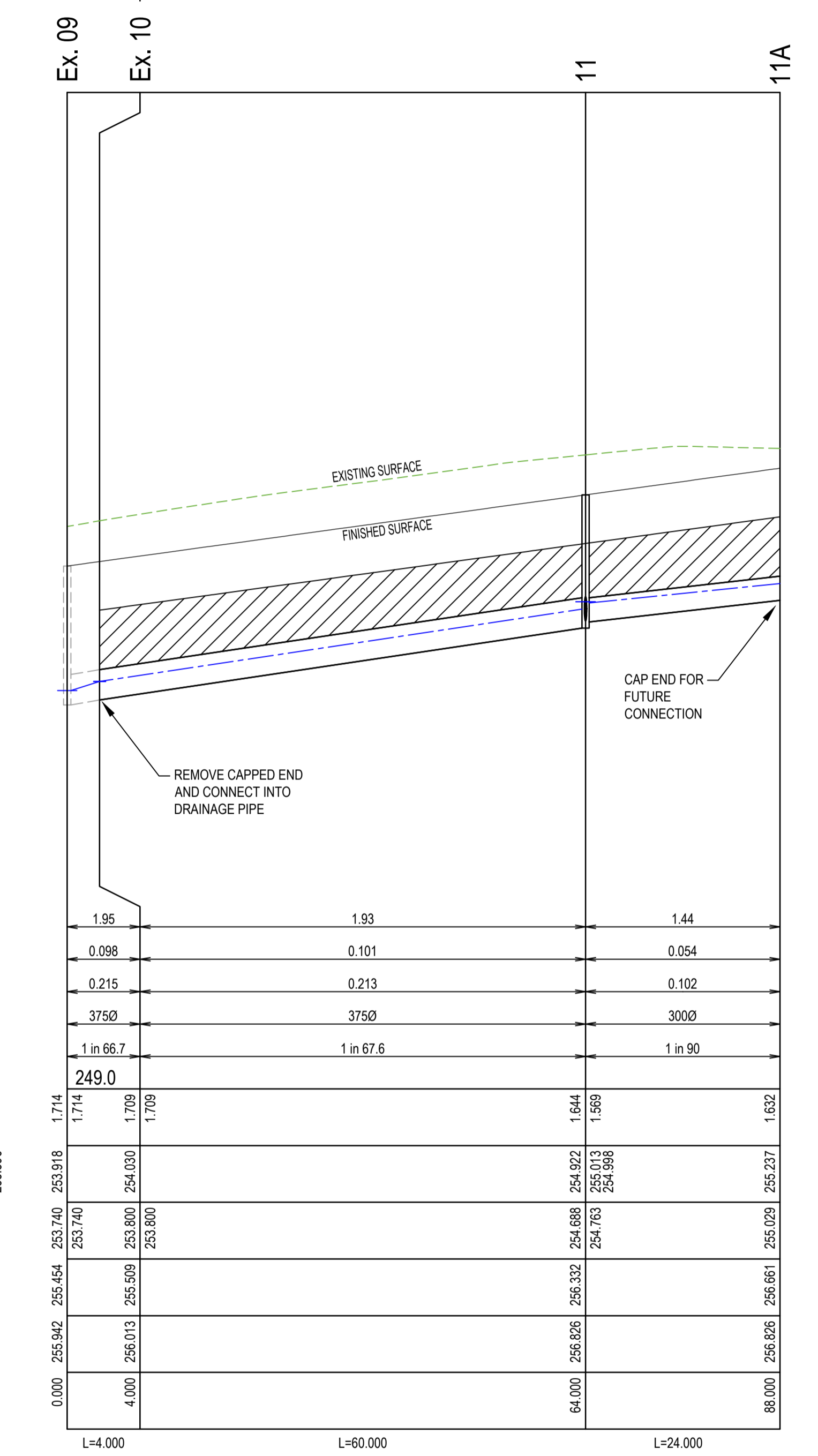
EXISTING STAGE 03 PROPOSED STAGE 05



EXISTING STAGE 03 PROPOSED STAGE 05



EXISTING STAGE 03 PROPOSED STAGE 05

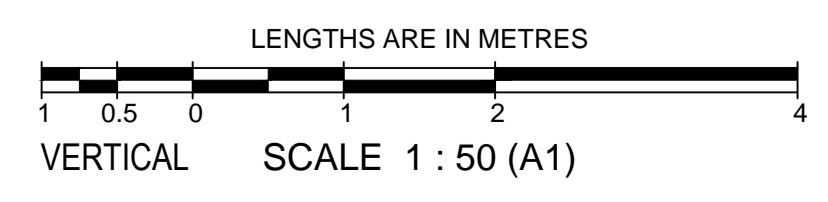
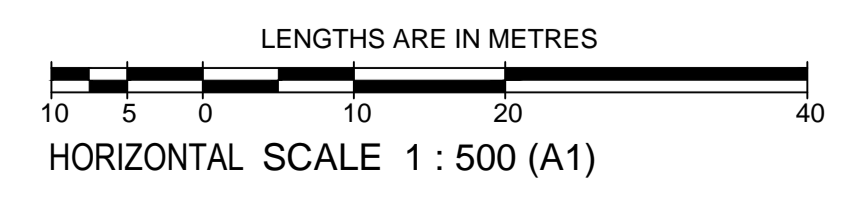


VELOCITY (m/s)	1.54	1.54	1.37
DESIGN (m ³ /s)	0.086	0.087	0.030
CAPACITY (m ³ /s)	0.109	0.109	0.097
DIAMETER & TYPE (RCP RRJ UNO) CLASS (CLASS 2 UNO)	3000	3000	3000
GRADE	1 in 79.4	1 in 79.4	1 in 100
DATUM	247.0		
DEPTH TO INVERT	1.705 1.705	1.607 1.607	1.583 1.533
H.G.L.	252.800 252.800	253.460 253.460	253.873 254.100 254.082
INVERT LEVEL	252.800 252.800	253.460 253.460	253.873 254.100 254.082
FINISHED SURFACE	254.473 254.505	255.087 255.087	255.226 255.686 254.733
EXISTING SURFACE	254.473 254.505	255.087 255.087	255.226 255.686 254.733
PIPE CHAINAGE	0.000	54.000	66.950

VELOCITY (m/s)	1.71	0.92
DESIGN (m ³ /s)	0.061	0.036
CAPACITY (m ³ /s)	0.121	0.037
DIAMETER & TYPE (RCP RRJ UNO) CLASS (CLASS 2 UNO)	3000	2250
GRADE	1 in 64.3	1 in 150
DATUM	248.0	
DEPTH TO INVERT	0.939 0.939	0.920 0.870
H.G.L.	254.210	255.050 255.243
INVERT LEVEL	254.210	255.050 255.243
FINISHED SURFACE	255.942 255.942	256.331 256.331
EXISTING SURFACE	255.942 255.942	256.284 256.284
PIPE CHAINAGE	0.000	54.000

VELOCITY (m/s)	1.95	1.93	1.44
DESIGN (m ³ /s)	0.098	0.101	0.054
CAPACITY (m ³ /s)	0.215	0.213	0.102
DIAMETER & TYPE (RCP RRJ UNO) CLASS (CLASS 2 UNO)	3750	3750	3000
GRADE	1 in 66.7	1 in 67.6	1 in 90
DATUM	249.0		
DEPTH TO INVERT	1.714 1.714	1.709 1.709	1.644 1.589
H.G.L.	253.740 253.740	254.030 254.030	254.922 255.013 254.936
INVERT LEVEL	253.740 253.740	254.030 254.030	254.922 255.013 254.936
FINISHED SURFACE	255.942 255.942	256.331 256.331	256.681 256.681
EXISTING SURFACE	255.942 255.942	256.284 256.284	256.626 256.626
PIPE CHAINAGE	0.000	4.000	64.000

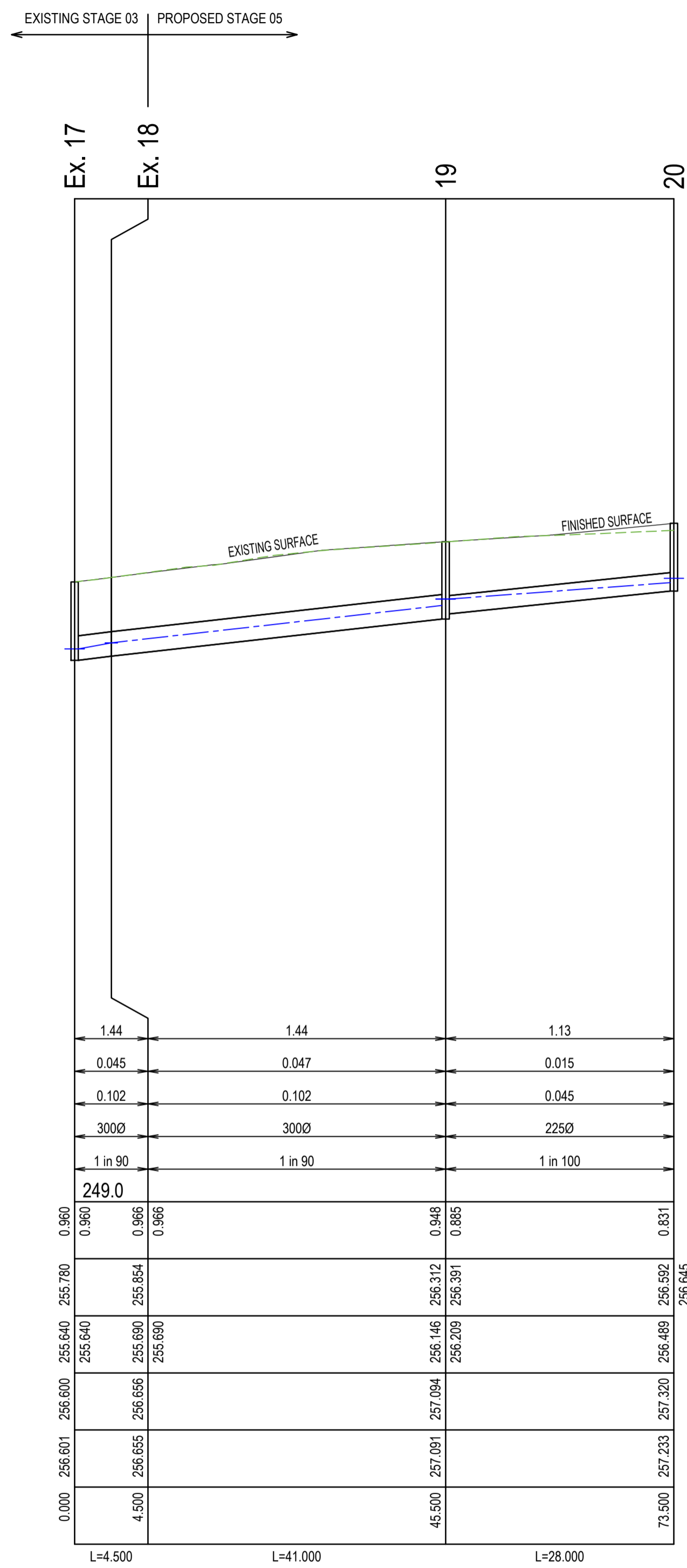
LEGEND:
 - - - - - EXISTING SURFACE PROFILE
 ——— FINISHED SURFACE PROFILE
 - - - - - INDICATES 5YR HGL
 ▨▨▨▨▨ INDICATES CRUSHED ROCK BACKFILL



breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF. 362-H-10 SURVEY BPD DESIGN J.B DRAWN I.W CHECKED RGW		KIMBERLEY ESTATE STAGE 5 DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
SCALE AS SHOWN DATUM AHD DATE APR 2023		MUNICIPALITY HUME REFERENCE 10255 E/5 SHEET 07 OF 10

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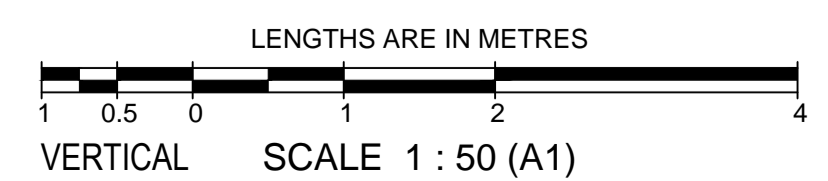
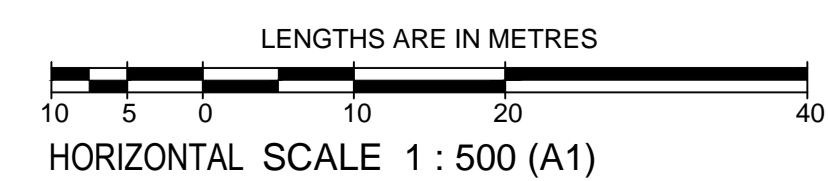
Printer: Jun 06, 2023 - 12:00 PM



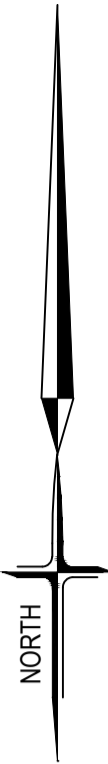
STRUCTURE SCHEDULE												
PIT No.	DESCRIPTION	INTERNAL DIMENSIONS		INLET		OUTLET		BRANCH CONNECTION		TOP OF PIT	DEPTH OF PIT	REMARKS
		L	W	DIA	LEVEL	DIA	LEVEL	DIA	LEVEL			
1	Junction Pit (Existing)	600	900	300	252.8					254.505	1.705	Existing Junction Pit
2	End of Pipe (Existing)			300	253.48	300	253.48			255.087	1.607	Remove Capped Pipe and Connect into Existing Drainage Pipe
3	Channel Grating Pit	600	900	300	253.693	300	253.643	300	253.693	255.226	1.583	EDCM601-EDCM605 with Class B Cover. E: 301389.5691, N: 5840890.4417/ E: 301390.4687, N:5840890.4683
4	Junction Pit	600	900			300	254.244			255.733	1.49	EDCM605 with Class B Cover. E: 301444.5951, N: 5840892.0685/ E: 301445.4947, N:5840892.0951
5	Channel Grating Pit	600	900			300	253.778			255.226	1.448	EDCM601-EDCM605 with Class B Cover. E: 301389.8026, N: 5840882.5451/ E: 301390.7022, N:5840882.5717
6	Junction Pit (Existing)	600	900	300	254.21					255.149	0.939	Existing Junction Pit
7	Junction Pit	600	900	225	255.1	300	255.05			255.97	0.92	EDCM605 with Class B Cover. E: 301375.5934, N: 5840924.9437/ E: 301376.4930, N:5840924.9703
8	Junction Pit	600	900			225	255.503			256.351	0.848	EDCM605 with Class B Cover. E: 301436.0670, N: 5840926.7316/ E: 301436.9666, N:5840926.7582
9	Junction Pit (Existing)	600	900	375	253.74					255.454	1.714	Existing Junction Pit
10	End of Pipe (Existing)			375	253.8	375	253.8			255.509	1.709	Remove Capped Pipe and Connect into Existing Drainage Pipe
11	Channel Grating Pit	600	900	300	254.763	375	254.688	300	254.776	256.332	1.644	EDCM601-EDCM605 with Class B Cover. E: 301385.3740, N: 5840966.3508/ E: 301386.2736, N:5840966.3774
11A	End of Pipe	600	900			300	256.661			256.661	1.632	Cap End for Future Connection E: 301409.8045, N: 5840967.3733
15	Channel Grating Pit	600	900			300	254.861			256.332	1.471	EDCM601-EDCM605 with Class B Cover. E: 301386.5071, N: 5840958.4809/ E: 301385.6075, N:5840958.4543
17	Junction Pit (Existing)	600	900	300	255.64					256.6	0.96	Existing Junction Pit
18	End of Pipe (Existing)			300	255.69	300	255.69			256.656	0.966	Remove Capped Pipe and Connect into Existing Drainage Pipe
19	Junction Pit	600	900	225	256.209	300	256.146			257.094	0.948	EDCM605 with Class B Cover. E: 301365.9099, N: 5840998.6898/ E: 301366.8095, N:5840998.7164
20	Junction Pit	600	900			225	256.489			257.32	0.831	EDCM605 with Class B Cover. E: 301393.8976, N: 5840999.5172/ E: 301394.7972, N:5840999.5438

LEGEND:

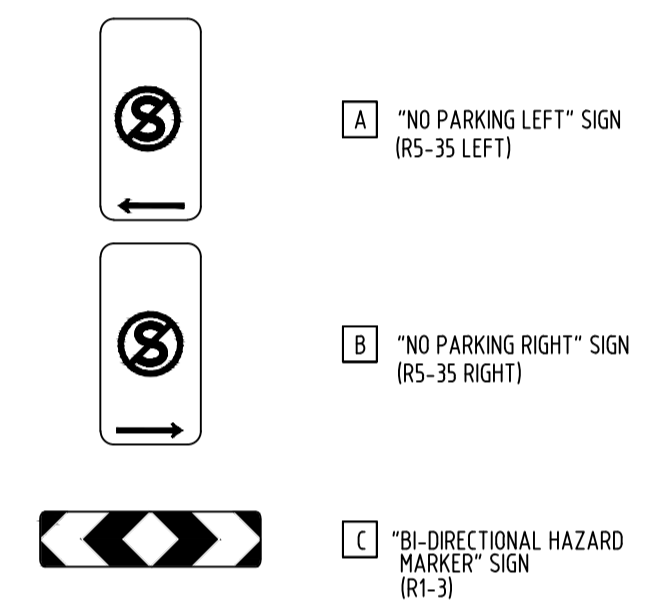
- EXISTING SURFACE PROFILE
- FINISHED SURFACE PROFILE
- - - INDICATES 5YR HGL
- ▨ INDICATES CRUSHED ROCK BACKFILL



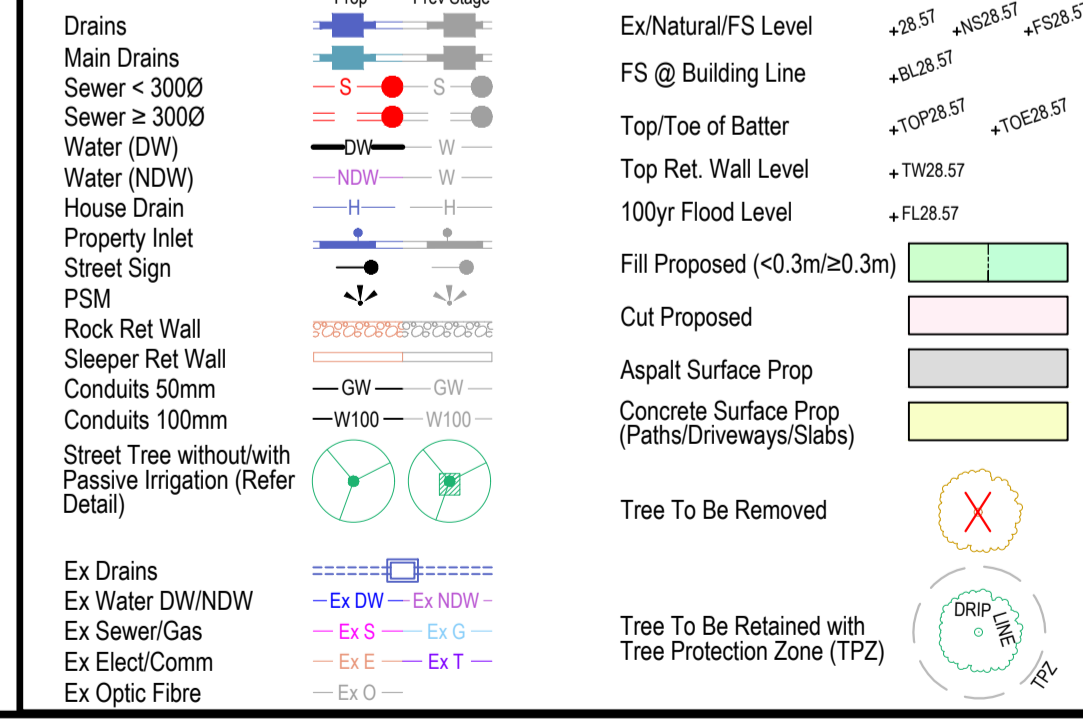
AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 362-H-10		KIMBERLEY ESTATE STAGE 5 DRAINAGE LONGITUDINAL SECTIONS - SHEET 2		MUNICIPALITY	
SURVEY BPD				HUME	
DESIGN J.B		REFERENCE		10255 E/5	
DRAWN I.W		SCALE AS SHOWN		DATUM AHD	
CHECKED RGW		DATE APR 2023		SHEET 08 OF 10	



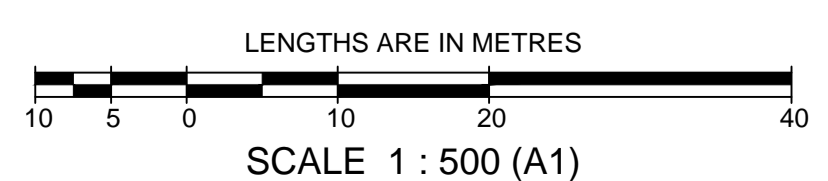
SIGNAGE LEGEND




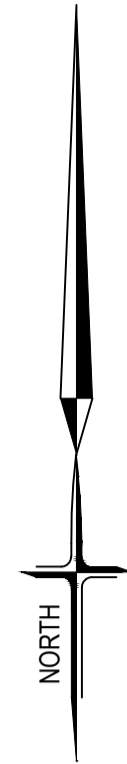
SYMBOL LEGEND



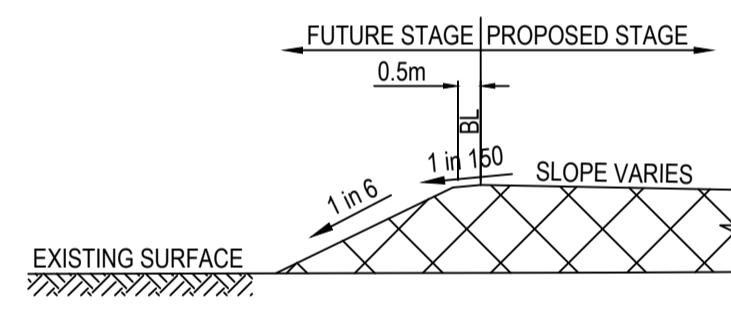
PLAN
SCALE 1:500



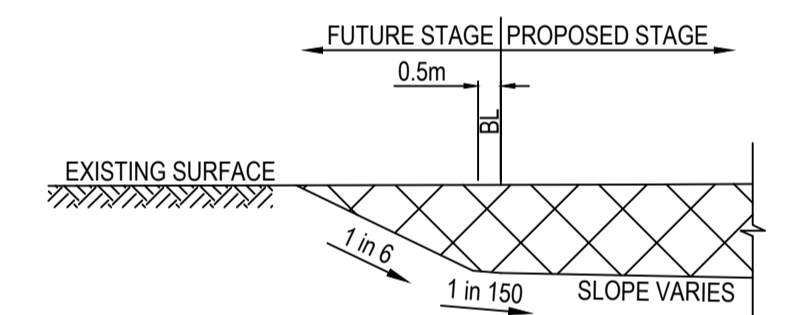
AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310							
				MELWAY REF. 362-H-10	KIMBERLEY ESTATE STAGE 5 SIGNAGE AND LINEMARKING		MUNICIPALITY HUME				
				SURVEY BPD			REFERENCE 10255 E/5				
				DESIGN J.B.	SCALE AS SHOWN	DATUM AHD	DATE APR 2023	SHEET 09 OF 10	P1		
DRAWN I.W.	CHECKED RGW	DATE	DATE								
VER	DATE	REMARKS	CHECKED	SCALE	DATUM	AHD	DATE	APR 2023	SHEET	09 OF 10	P1



EXISTING RAILWAY RESERVE



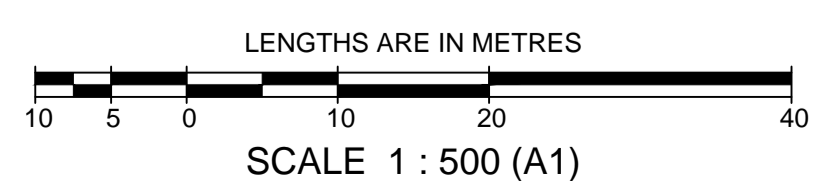
TYPICAL SECTION WHEN IN FILL ON BOUNDARY OF FUTURE STAGE
NOT TO SCALE



TYPICAL SECTION WHEN IN CUT ON BOUNDARY OF FUTURE STAGE
NOT TO SCALE

SYMBOL LEGEND	
Drains	Prop
Main Drains	Prev Stage
Sewer < 3000	S
Sewer ≥ 3000	S
Water (DW)	W
Water (NDW)	W
House Drain	H
Property Inlet	I
Street Sign	+
PSM	+
Rock Ret Wall	+
Sleeper Ret Wall	+
Conduits 50mm	GW
Conduits 100mm	W100
Street Tree without/with Passive Irrigation (Refer Detail)	T
Ex Drains	Ex DW
Ex Water DW/NDW	Ex DW
Ex Sewer/Gas	Ex S
Ex Elect/Comm	Ex E
Ex Optic Fibre	Ex O
Ex/Natural/FS Level	+28.57
FS @ Building Line	+28.28.57
Top/Toe of Batter	+YOP28.57
Top Ret. Wall Level	+TW28.57
100yr Flood Level	+FL28.57
Fill Proposed (<0.3m/≥0.3m)	Green
Cut Proposed	White
Asphalt Surface Prop	Grey
Concrete Surface Prop (Paths/Driveways/Slabs)	Yellow
Tree To Be Removed	X
Tree To Be Retained with Tree Protection Zone (TPZ)	DRP

PLAN
SCALE 1:500



AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310							
MELWAY REF.	362-H-10	KIMBERLEY ESTATE STAGE 5 EARTHWORKS PLAN		MUNICIPALITY							
SURVEY	BPD			HUME							
DESIGN	J.B			REFERENCE							
DRAWN	I.W			10255 E/5							
VER	DATE	REMARKS	CHECKED	RGW	SCALE AS SHOWN	DATUM AHD	DATE	APR 2023	SHEET	10 OF 10	P1