

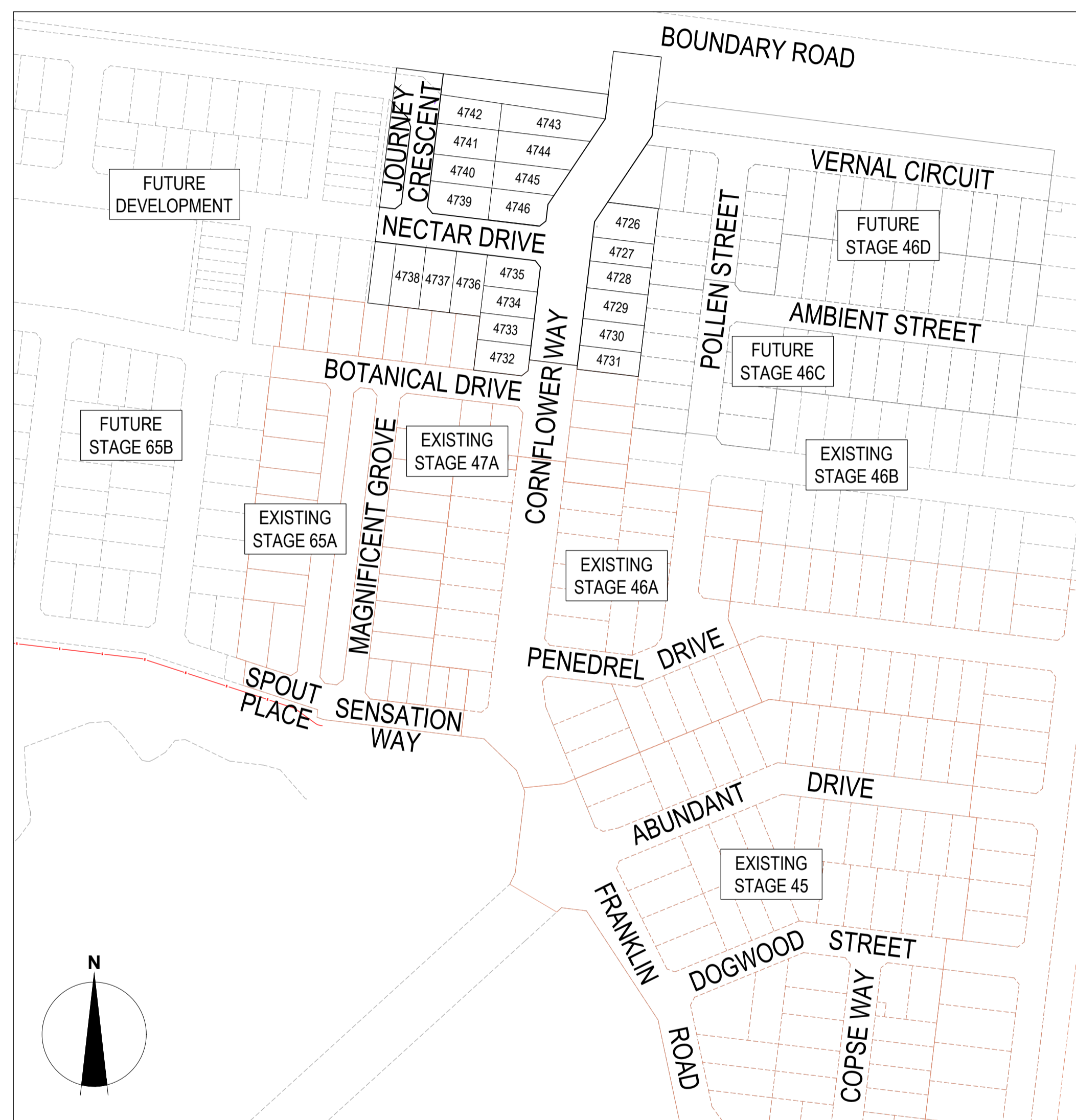
ARMSTRONG

STAGE 47B

CITY OF GREATER GEELONG

GENERAL NOTES:

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH THE "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" (CODE OF PRACTICE No.8, 1998)
 - NOTIFY WORK SAFE OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE TREE PROTECTION ZONE OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S ENVIRONMENT DEPARTMENT.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE RESURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.
- NO TOPSOIL TO BE REMOVED FROM SITE.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
- FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.
- FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING A MINIMUM DENSITY RATIO OF 98% (STANDARD) IN ACCORDANCE WITH AS1289 CLAUSE 5.1.1.
- CUT AND FILL BATTER SLOPES ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.
- ALL DRAINAGE PIPES ARE TO BE SPIGOT-SOCKET RUBBER RING JOINTED UNLESS STATED OTHERWISE.
- ALL DRAINAGE TRENCHES UNDER PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL, SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILIZED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- PROPERTY INLETS AS PER INFRASTRUCTURE DESIGN MANUAL (IDM) STANDARD DRAWING SD 520 ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
- ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED (50mm STAMPED IMPRESSION) WITH THE LETTERS E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) ABOVE CONDUIT LOCATION.
- ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROOF ROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R.
- NO COMMUNICATION PITS ARE TO BE LOCATED IN THE FOOTPATH.
- VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER CITY OF GREATER GEELONG "DESIGN NOTES No.4" DATED AUGUST 2012 & IDM STANDARD DRAWINGS SD205 to SD265.
- ALL PEDESTRIAN CROSSINGS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL SD200.
- ALL STREET SIGNS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
- ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- ALL AREAS OF SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE FULLY GRASSED BY HYDRO MULCHING, WATERED AND MAINTAINED, UNTIL THE END OF MAINTENANCE PERIOD.
- ALL SLUMPS IN PRECAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.
- CITY OF GREATER GEELONG REQUIRES CCTV OF ALL DRAINAGE PIPES AND PITS, PRIOR TO THE ISSUE OF THE STATEMENT OF COMPLIANCE



LOCALITY PLAN
MELWAYS REF: 479 F1
1:2000 20 0 20 40 60 80 100 A1
1:4000 A3

NOTE:
THE SITE OF WORKS IS SUBJECT TO THE PROVISIONS OF CULTURAL HERITAGE MANAGEMENT PLAN 12748.
ALL WORKS AND PERSONNEL MUST OBSERVE THE REQUIREMENTS OF THE MANAGEMENT PLAN AT ALL TIMES.

Sheet List Table

Drawing No.	Drawing Title	Revision
R100	COVER SHEET	0
R200	LAYOUT PLAN	0
R300	INTERSECTION DETAILS - 1	0
R301	INTERSECTION DETAILS - 2	0
R400	ROAD LONGITUDINAL SECTIONS - 1	0
R401	ROAD LONGITUDINAL SECTIONS - 2	0
R500	ROAD CROSS SECTIONS - 1	0
R501	ROAD CROSS SECTIONS - 2	0
R502	ROAD CROSS SECTIONS - 3	0
R503	ROAD CROSS SECTIONS - 4	0
R504	ROAD CROSS SECTIONS - 5	0
R600	DRAINAGE LONG SECTIONS - 1	0
R601	DRAINAGE LONG SECTIONS - 2	0
R602	DRAINAGE LONG SECTIONS - 3	0
R603	DRAINAGE PIT SCHEDULE	0
R700	TYPICAL DETAILS -1	0
R701	TYPICAL DETAILS - 2	0
R800	SIGNAGE AND LINEMARKING PLAN	0
R900	DRAINAGE LAYOUT PLAN	0

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS
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www.1100.com.au

P:\2018\18016 - VILAWOOD ARMSTRONG\18016-47B\18016-47B-DRAWINGS\18016-47B-R100 - COVER SHEET.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

villawood
properties
Communities Designed for Living

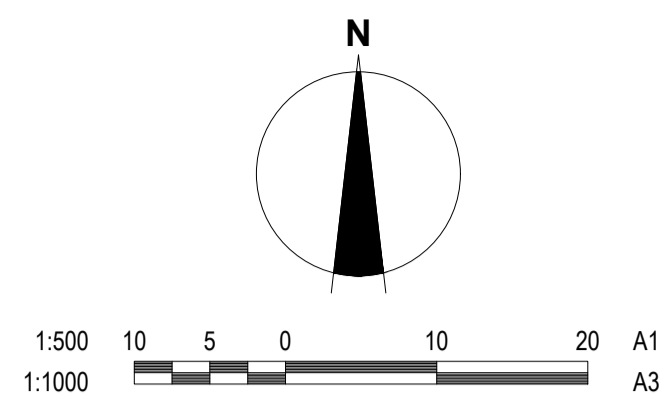
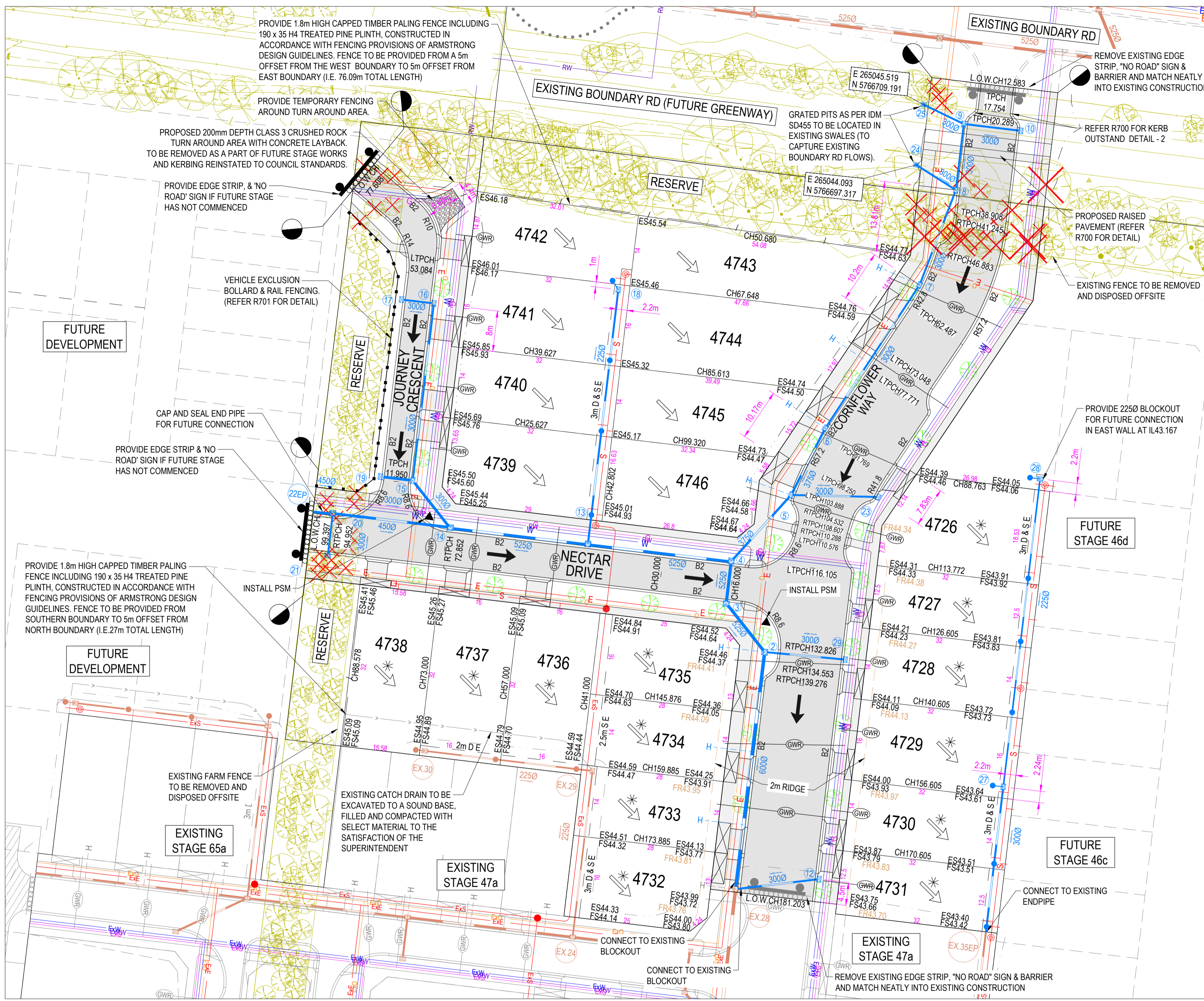
creo
CONSULTANTS
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

ARMSTRONG
MT DUNEED

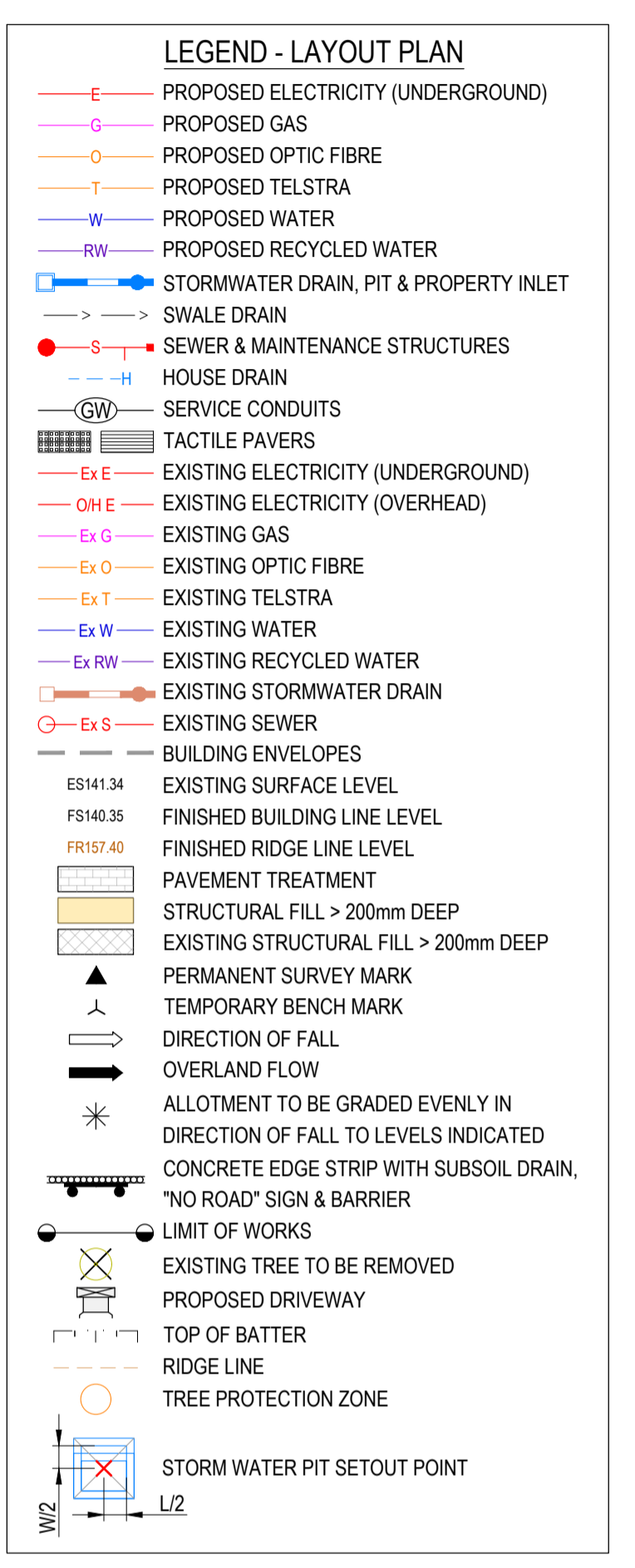
DRAWING TITLE
**ARMSTRONG - STAGE 47B
COVER SHEET**

STATUS
**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:2000 @ A1	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R100	0



CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



NOTE: STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY. ULTIMATE LOCATION IS TO BE PROVIDED/CONFIRMED BY LANDSCAPE ARCHITECTS

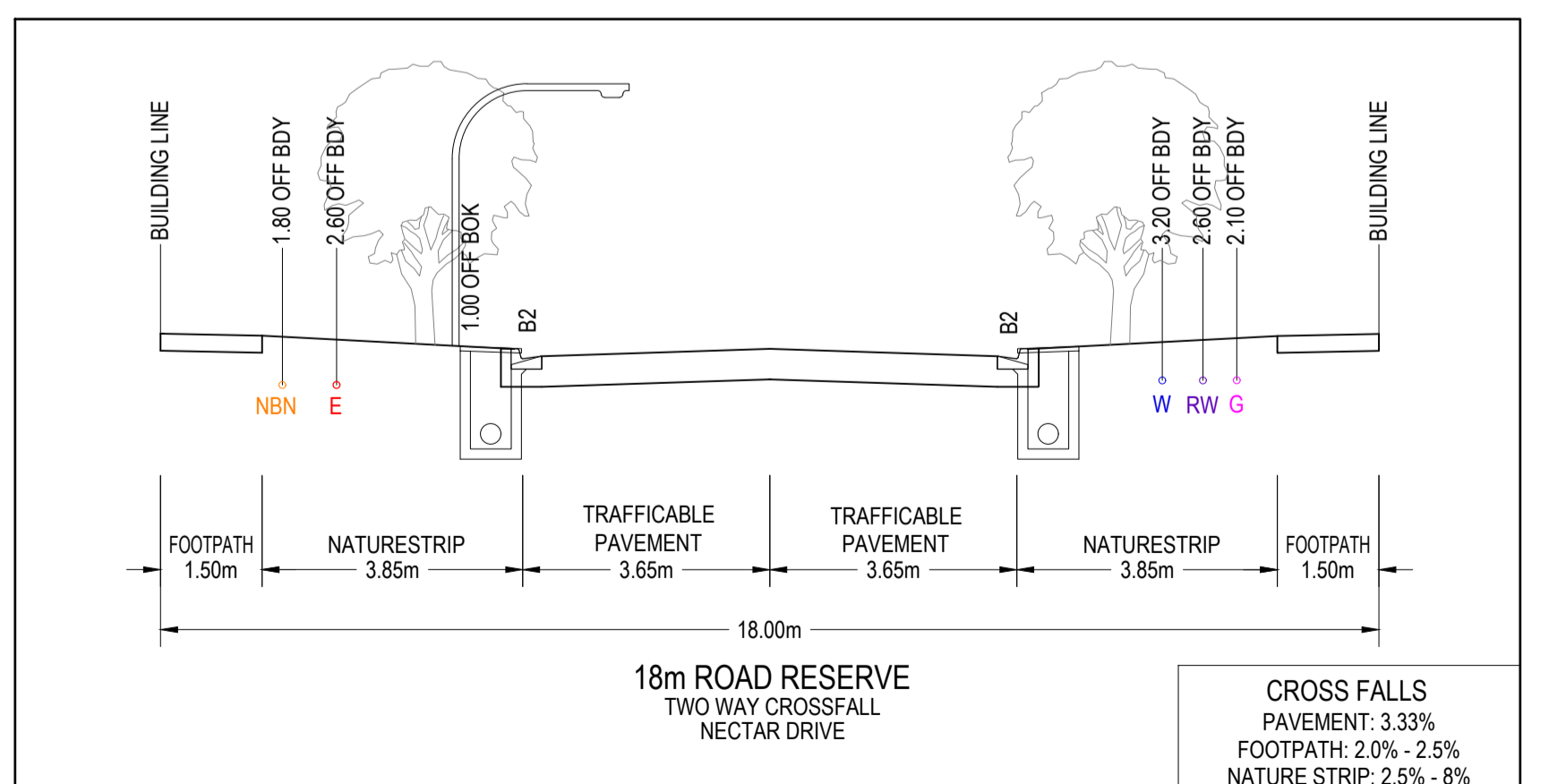
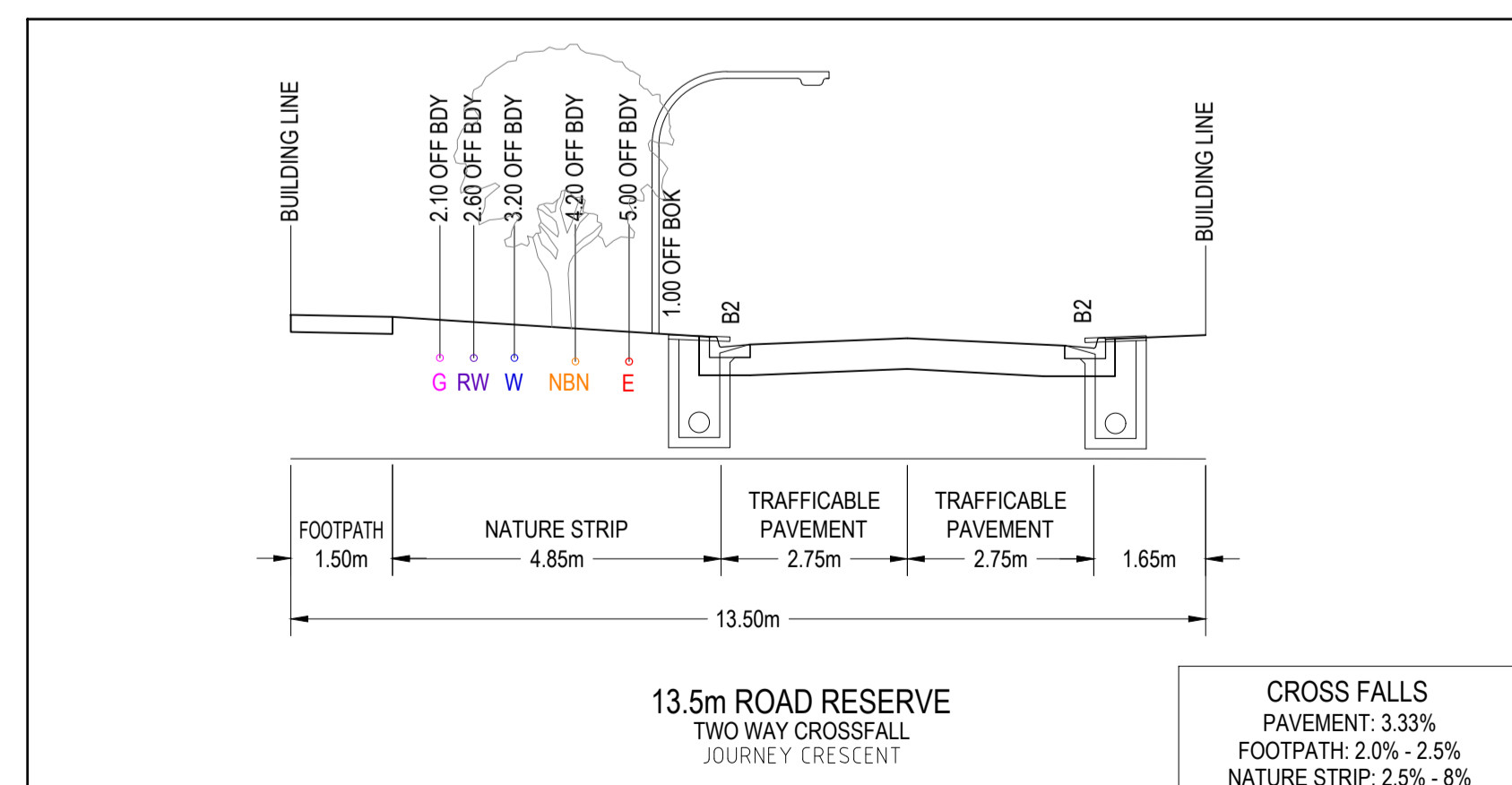
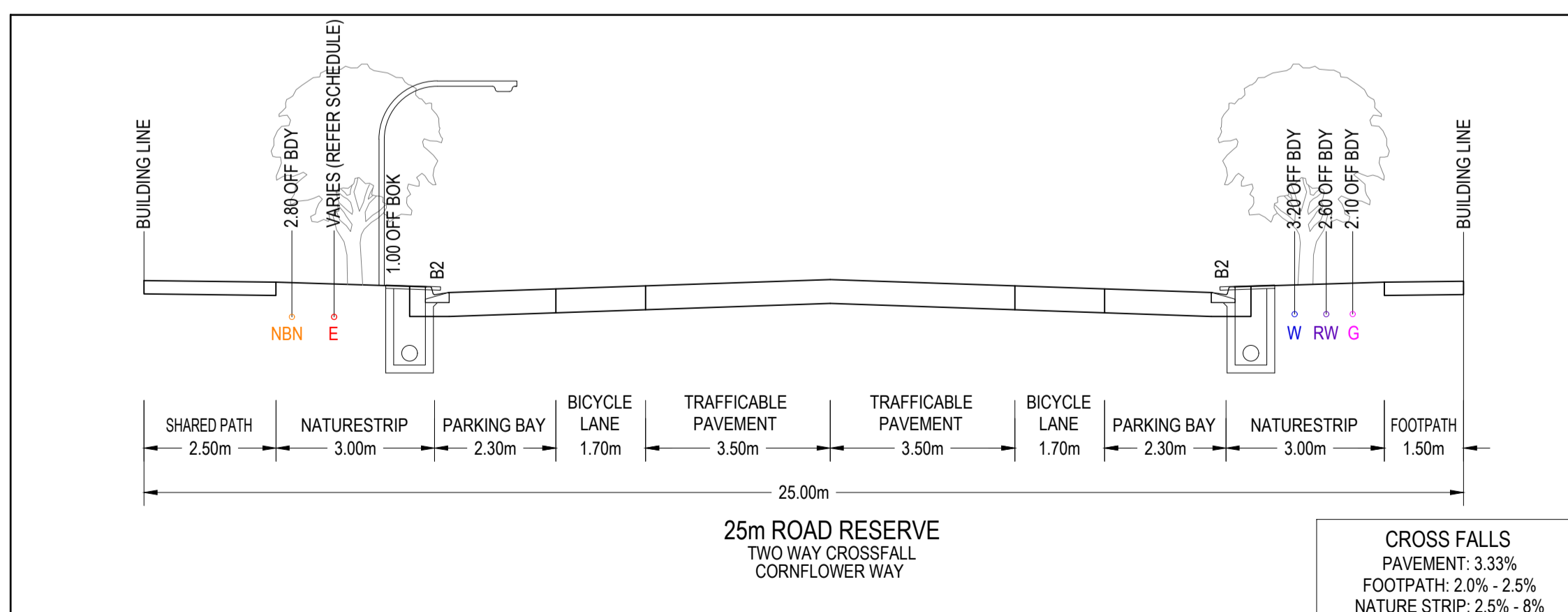
WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES
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DIAL 1100 BEFORE YOU DIG
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- NOTES:**
- ALL VEHICLE AND PRAM CROSSING LAYBACKS, TO BE MINIMUM OF 1.0m FROM PITS.
 - ALL PRAM CROSSINGS TO BE A MINIMUM 2.0m FROM VEHICLE CROSSINGS.
 - ALL PRAM CROSSINGS TO BE DDA COMPLIANT.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF LANDSCAPE WORKS.
 - THE USE OF DIRECTIONAL AND HAZARD TACTILE PAVERS MUST ACCORD WITH SECTION 2.2.3.1 OF AS/NZS 1428.4:2002
 - SEWER MAINTENANCE HOLE CONVERTER SLAB OR CONE, TO BE ROTATED TO ENSURE COVER POSITION IS CENTRALLY LOCATED WITHIN FOOTPATH
 - CHANGES FOR SETOUT OF PROPERTY INLET POINTS, SERVICING FUTURE LOTS, ARE MEASURED FROM THE DOWNSTREAM PIT
 - CONTRACTOR TO LOCATE ALL EXISTING ASSETS PRIOR TO COMMENCEMENT OF WORKS. ANY DAMAGE TO EXISTING ASSETS TO BE RECTIFIED AT CONTRACTORS EXPENSE.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING SERVICES, PRIOR TO COMMENCEMENT OF CONSTRUCTION
 - LOTS WITH FRONTAGES OF 12.50m OR LESS ARE TO BE PROVIDED WITH CROSSOVERS OF MAXIMUM 3.50m WIDTH

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		POTABLE WATER		OPTIC FIBRE		ELECTRICITY		PUBLIC LIGHTING	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
CORNFLOWER WAY (SOUTH OF LOT 4746)	E	2.10	E	2.60	E	3.20	W	2.80	W	3.60	W	1.00*
CORNFLOWER WAY (NORTH OF LOT 4746)	E	2.10	E	2.60	E	3.20	W	2.80	W	3.40	W	1.00*
NECTAR DRIVE	N	2.10	N	2.60	N	3.20	S	1.80	S	2.60	S	1.00*
JOURNEY CRESCENT (NORTH/SOUTH)	E	2.10	E	2.60	E	3.20	E	4.20	E	5.00	E	1.00*
FUTURE JOURNEY CRESCENT (EAST/WEST)	S	2.10	S	2.60	S	3.20	S	4.20	S	5.00	S	1.00*
FUTURE PREVAIL PLACE	S	2.10	S	2.50	S	3.00	S	4.00	S	4.80	S	1.00*

1. * DENOTES OFFSET FROM BACK OF KERB.



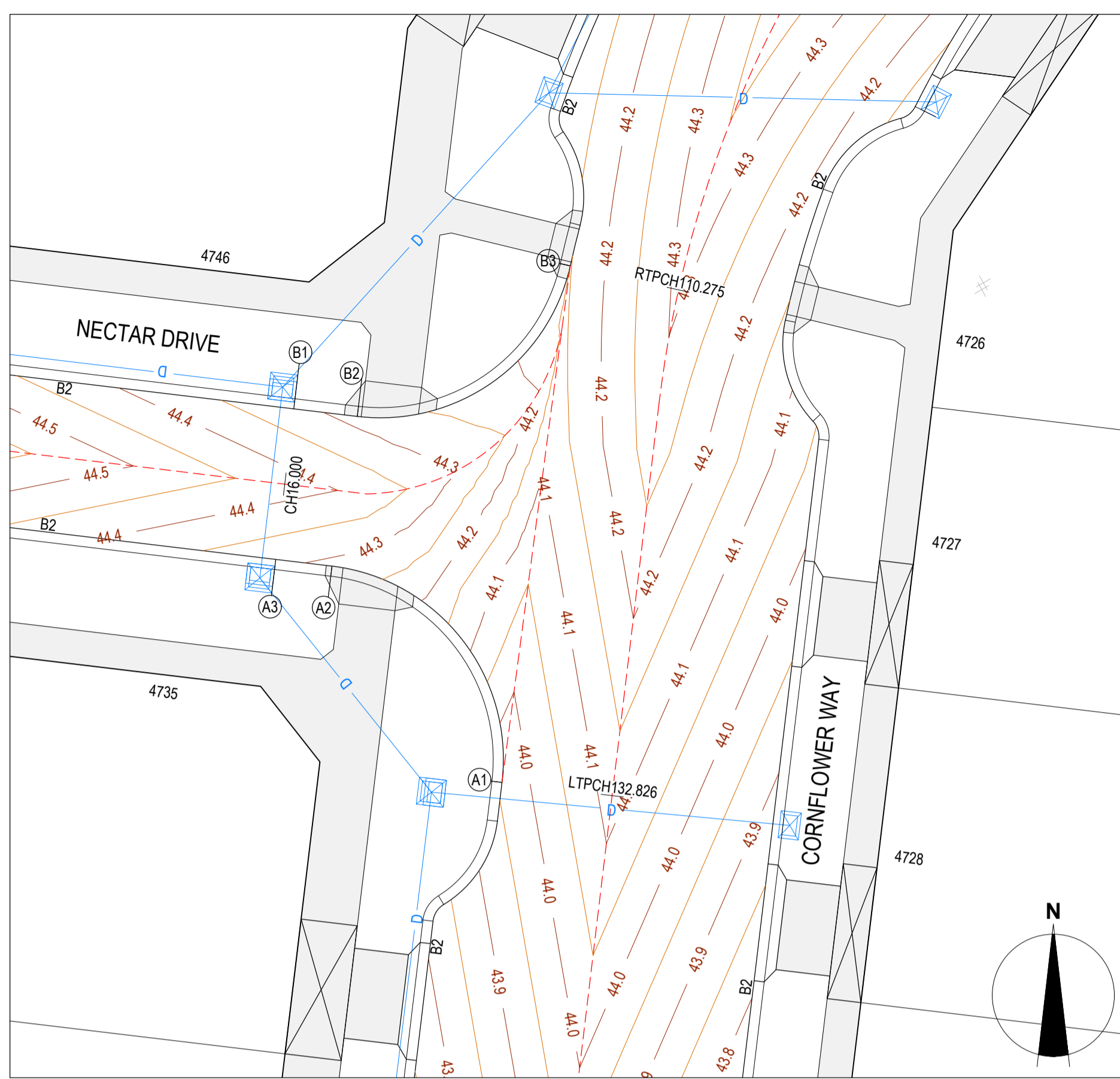
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B	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
C	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



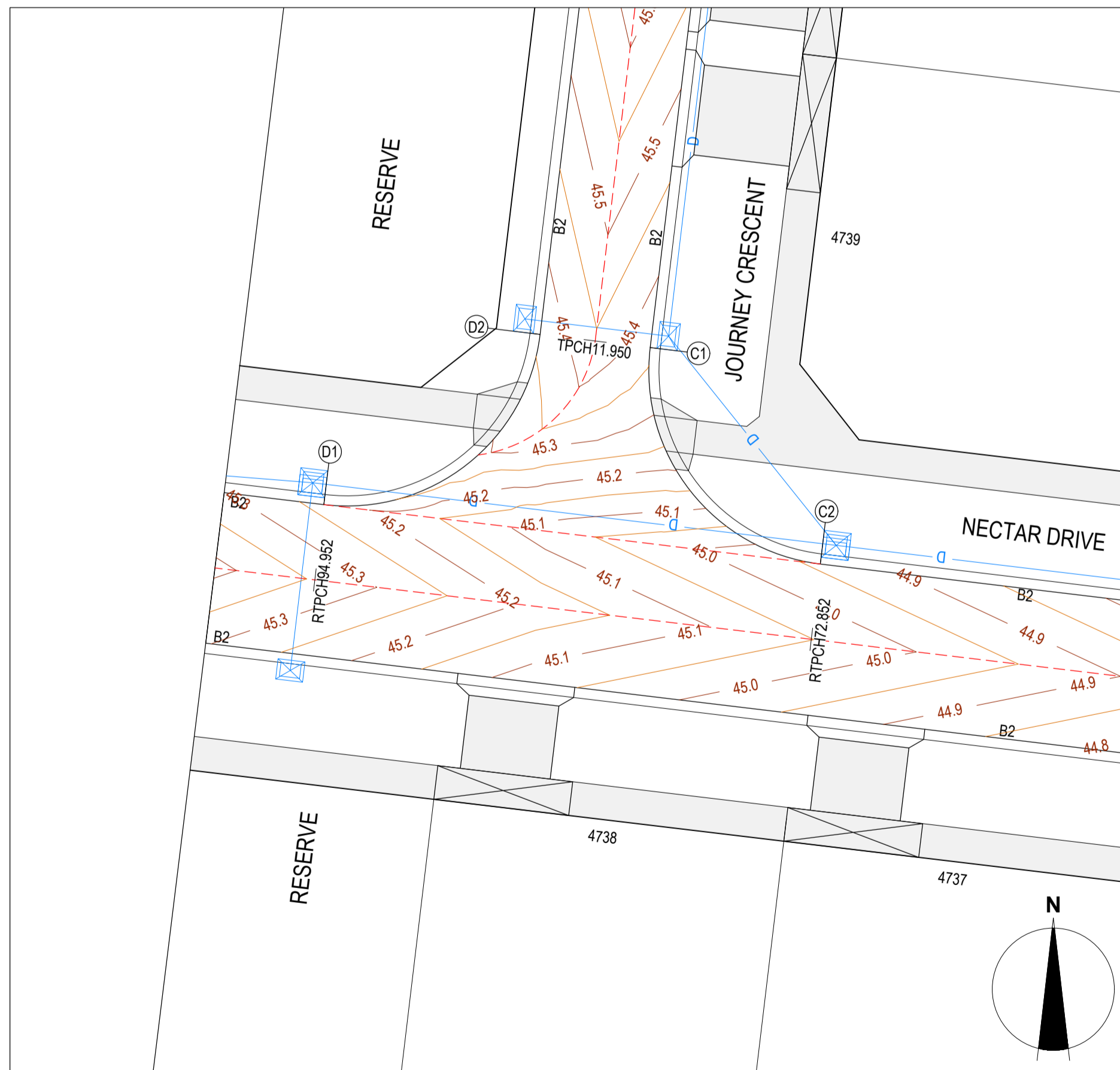
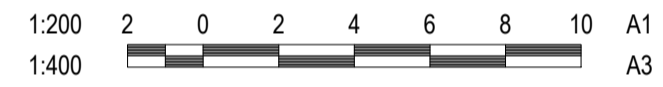
PROJECT: **ARMSTRONG - STAGE 47B LAYOUT PLAN**

DRAWING TITLE: **ISSUED FOR CONSTRUCTION**

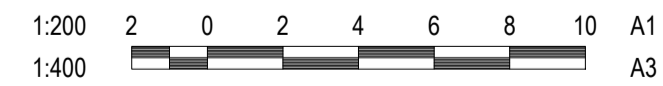
SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R200	0



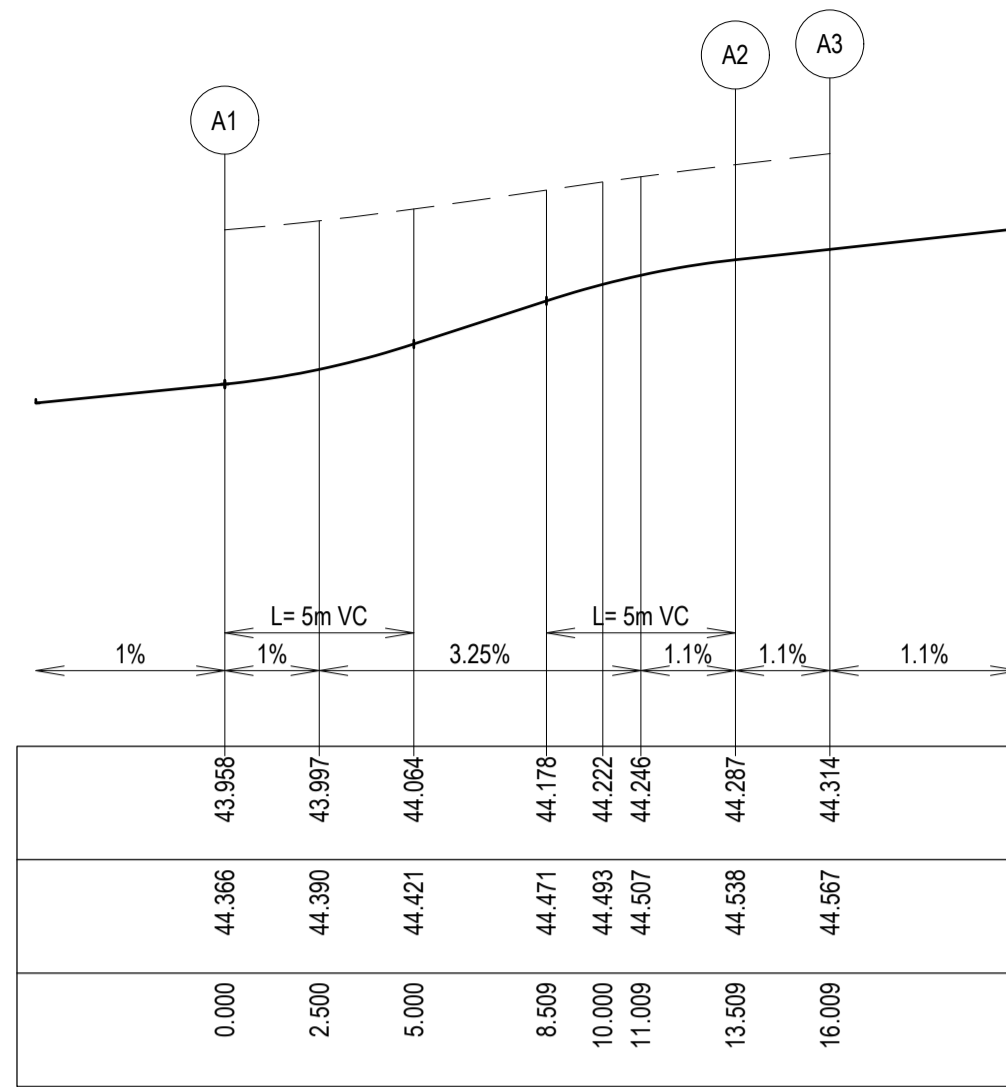
INTERSECTION OF CORNFLOWER WAY & NECTAR DRIVE



INTERSECTION OF NECTAR DRIVE & JOURNEY CRESCENT



VERTICAL GEOMETRY
DATUM RL43
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



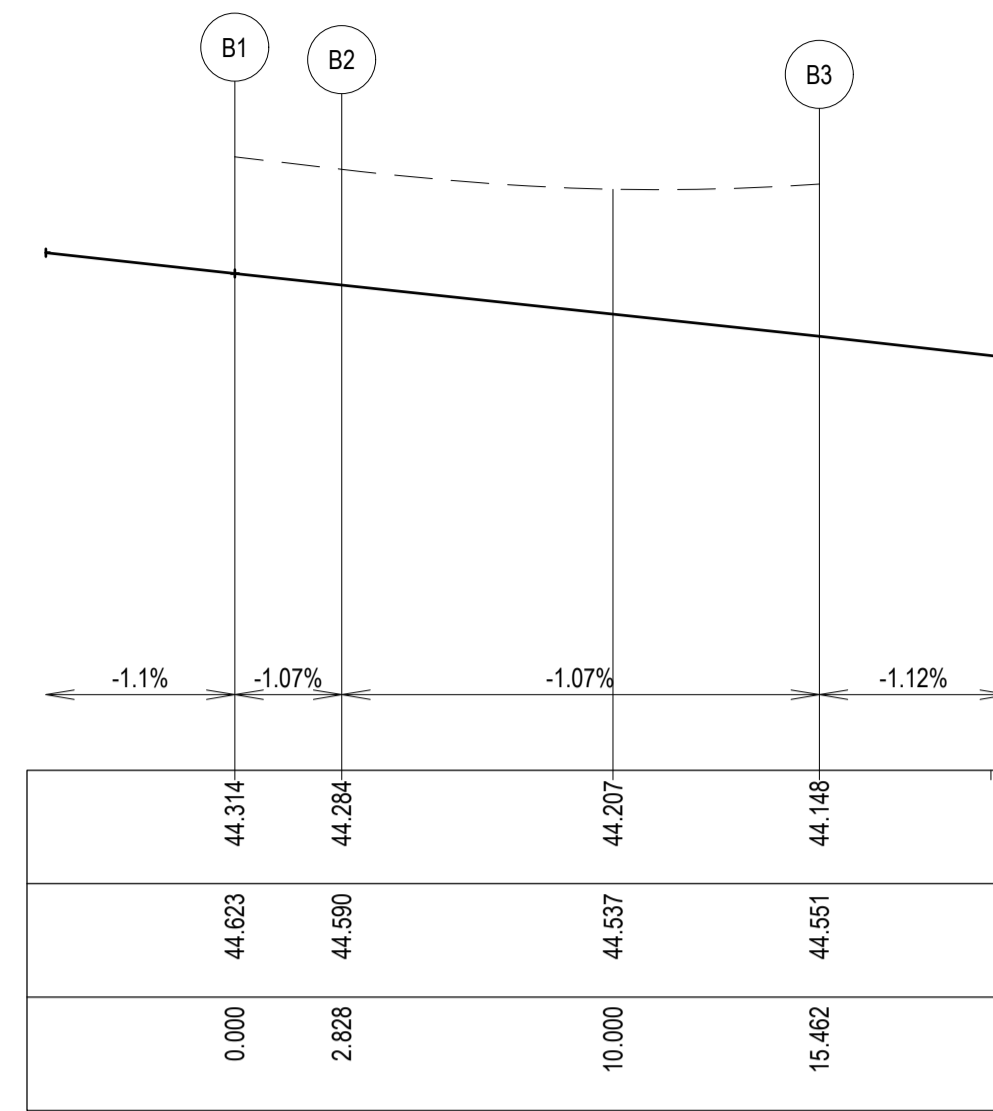
LIP LINE A

ALIGNMENT A

PT NO	EASTING	NORTHING	RL
A1	265017.407	5766601.909	43.958
A2	265009.889	5766611.469	44.287
A3	265007.407	5766611.766	44.314

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
A1 - A2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.121

VERTICAL GEOMETRY
DATUM RL43
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



LIP LINE B

ALIGNMENT B

PT NO	EASTING	NORTHING	RL
B1	265008.203	5766618.419	44.314
B2	265011.011	5766618.083	44.284
B3	265020.423	5766624.739	44.148

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
B2 - B3	84.173	8.6	12.634	2.218	1.644	3.088	2.676	3.159	44.216

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

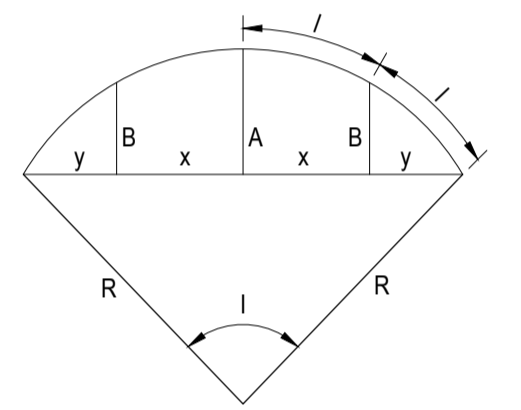
LEGEND - INTERSECTION PLAN

- Stormwater Drain, Pit & Property Inlet
- Major Contour - 0.1m
- Minor Contour - 0.05m
- Crown / Grade Line

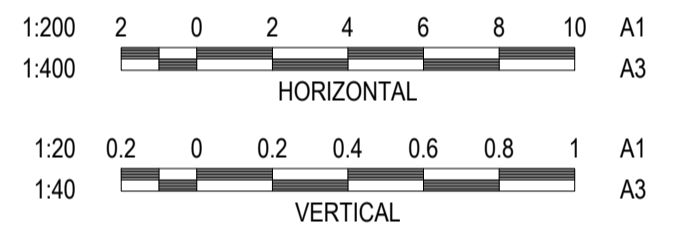
WARNING
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LEGEND

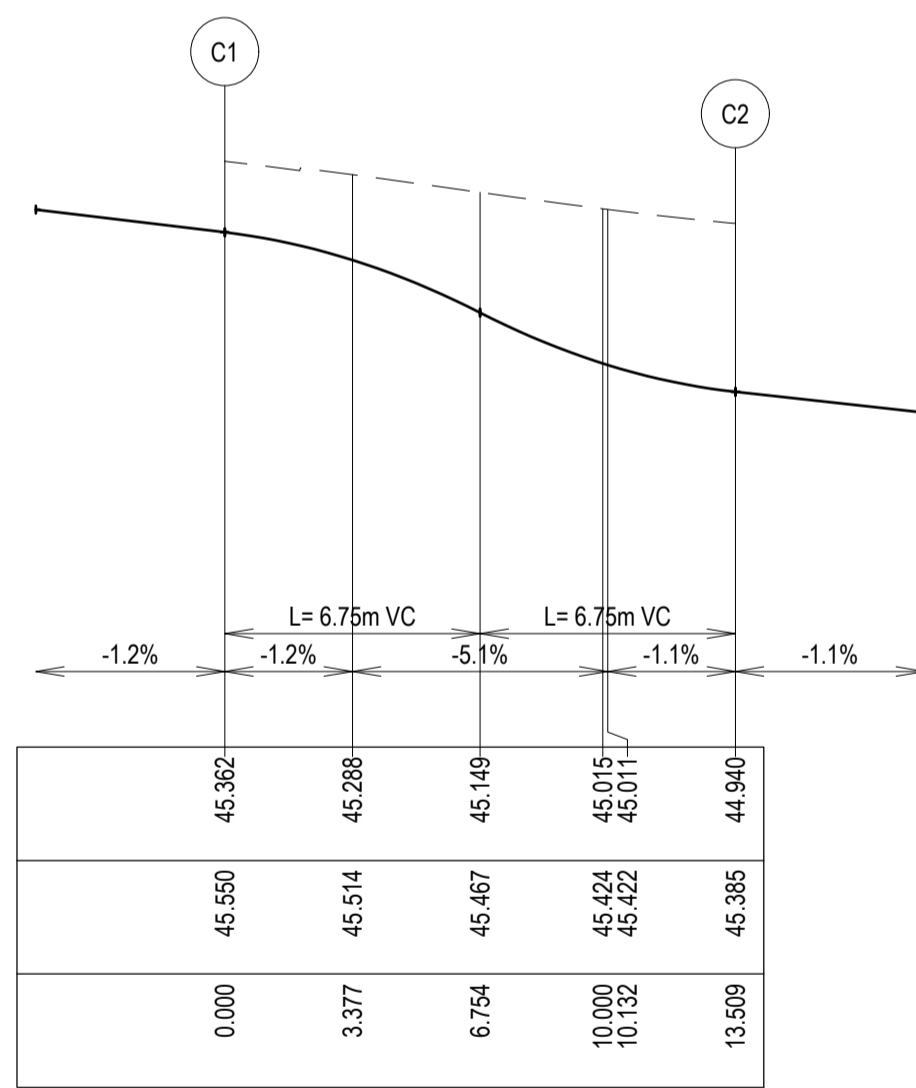
- Existing Surface
- Design Line



LIP PROFILE SETOUT



VERTICAL GEOMETRY
DATUM RL44
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



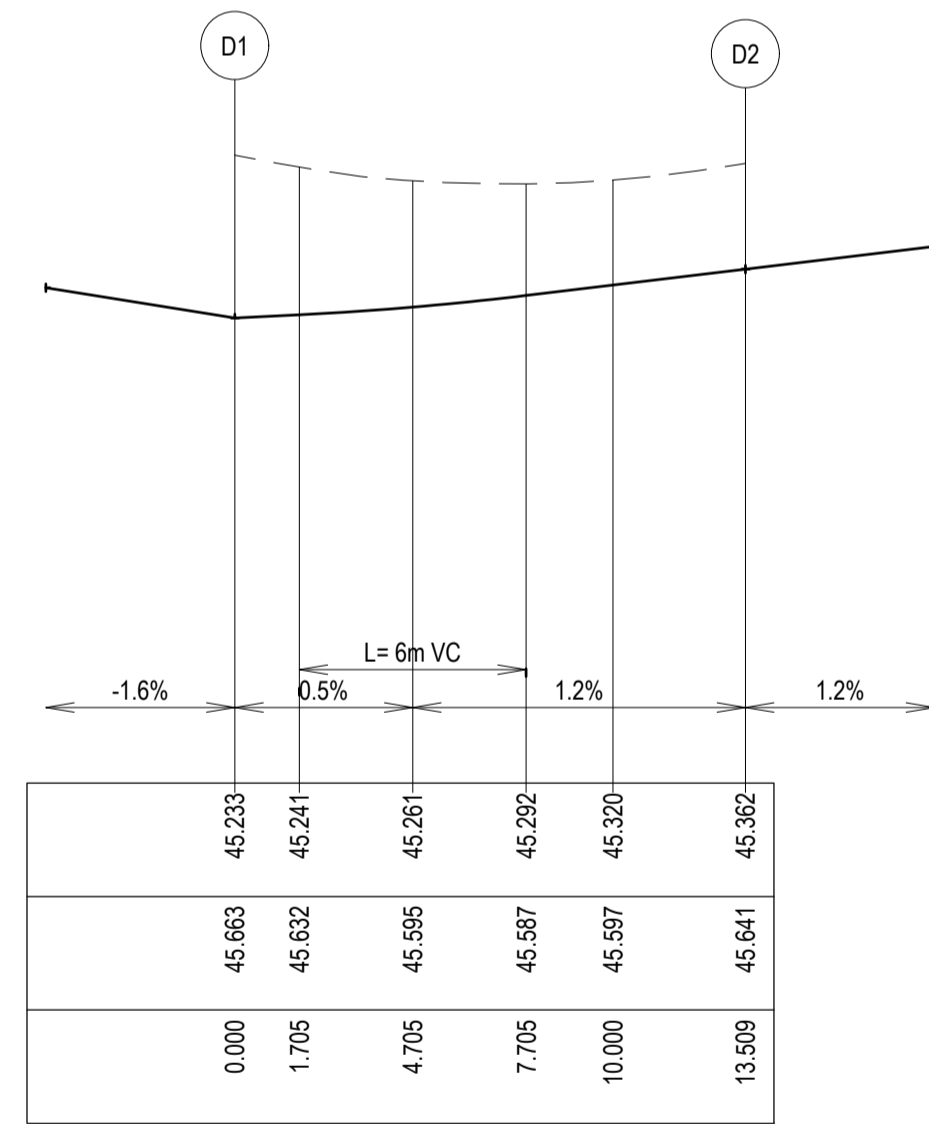
LIP LINE C

ALIGNMENT C

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C1	264944.235	5766634.73	45.362
C2	264951.753	5766625.169	44.94

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
C1 - C2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	45.149

VERTICAL GEOMETRY
DATUM RL44
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



LIP LINE D

ALIGNMENT D

PT NO	EASTING	NORTHING	RL
D1	264929.809	5766627.794	45.233
D2	264939.37	5766635.312	45.362

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
D1 - D2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	45.281

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

creo CONSULTANTS

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT

ARMSTRONG
MT DUNEED

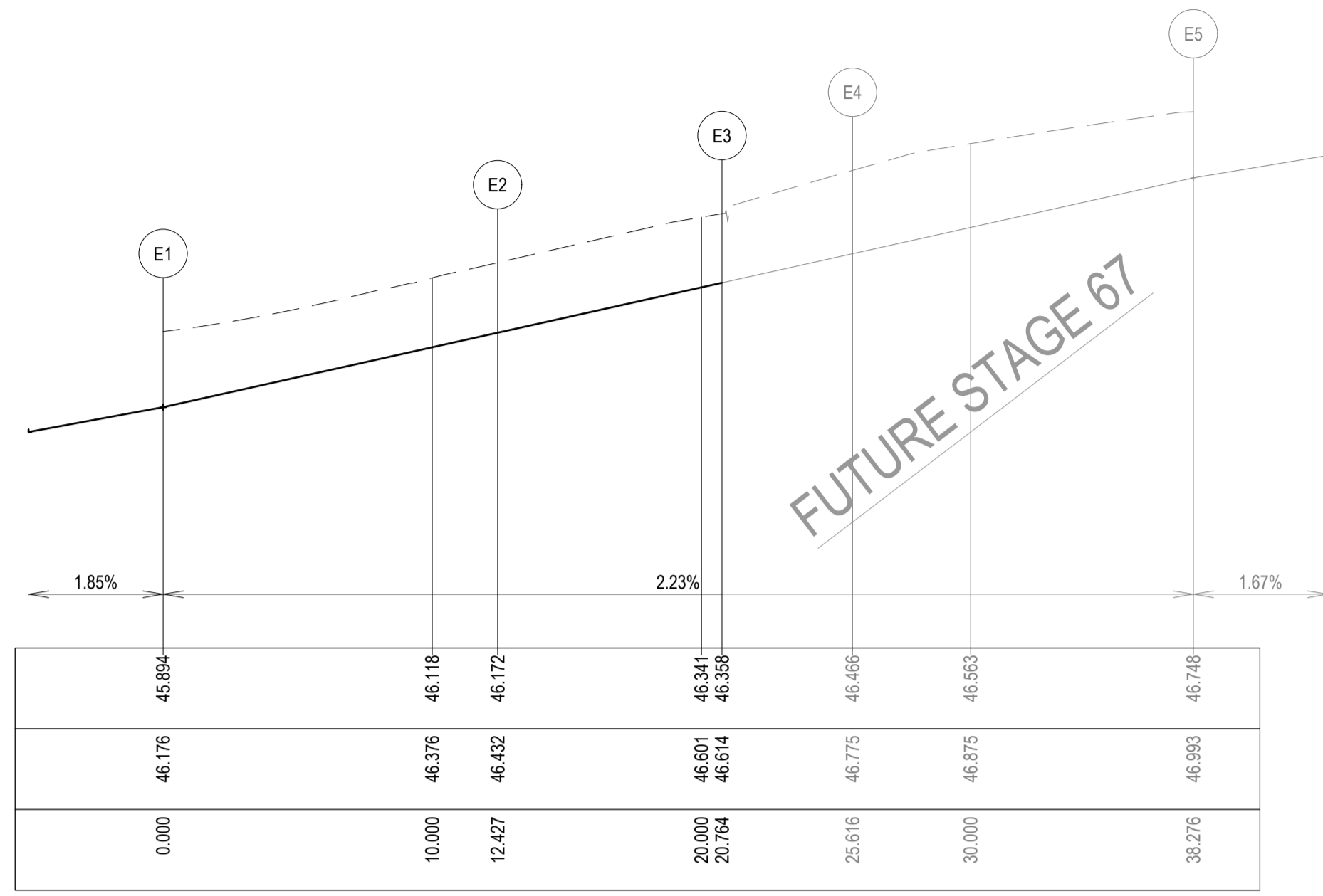
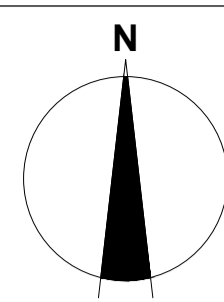
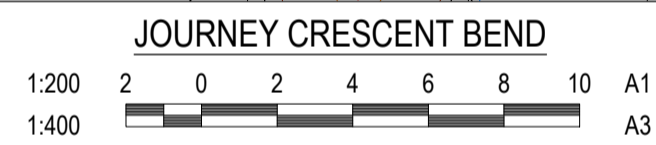
DRAWING TITLE

**ARMSTRONG - STAGE 47B
INTERSECTION DETAILS - 1**

STATUS

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R300	0



VERTICAL GEOMETRY
DATUM RL45
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

CHAINAGE	DESIGN LEVEL	EXISTING SURFACE
0.000	45.894	46.176
10.000	46.118	46.376
12.427	46.172	46.432
20.000	46.341	46.601
20.764	46.358	46.614
25.616	46.466	46.775
30.000	46.563	46.875
38.276	46.748	46.993

ALIGNMENT E

PT NO	EASTING	NORTHING	RL
E1	26494.254	5766676.155	46.895
E2	264939.854	5766687.235	46.172
E3	264933.454	5766692.578	46.358
E4	264929.296	5766695.036	46.466
E5	264917.049	5766698.107	46.748

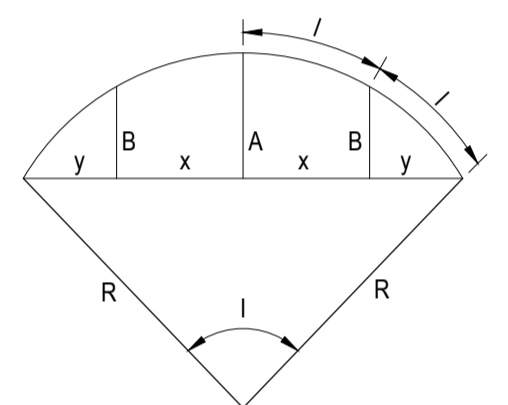
CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
E1 - E2	56.962	12.5	12.427	1.513	1.129	3.075	2.886	3.107	46.034
E3 - E4	18.531	15	4.851	0.196	0.147	1.212	1.204	1.213	46.412
E4 - E5	14.507	50	12.66	0.4	0.3	3.163	3.15	3.165	46.607

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

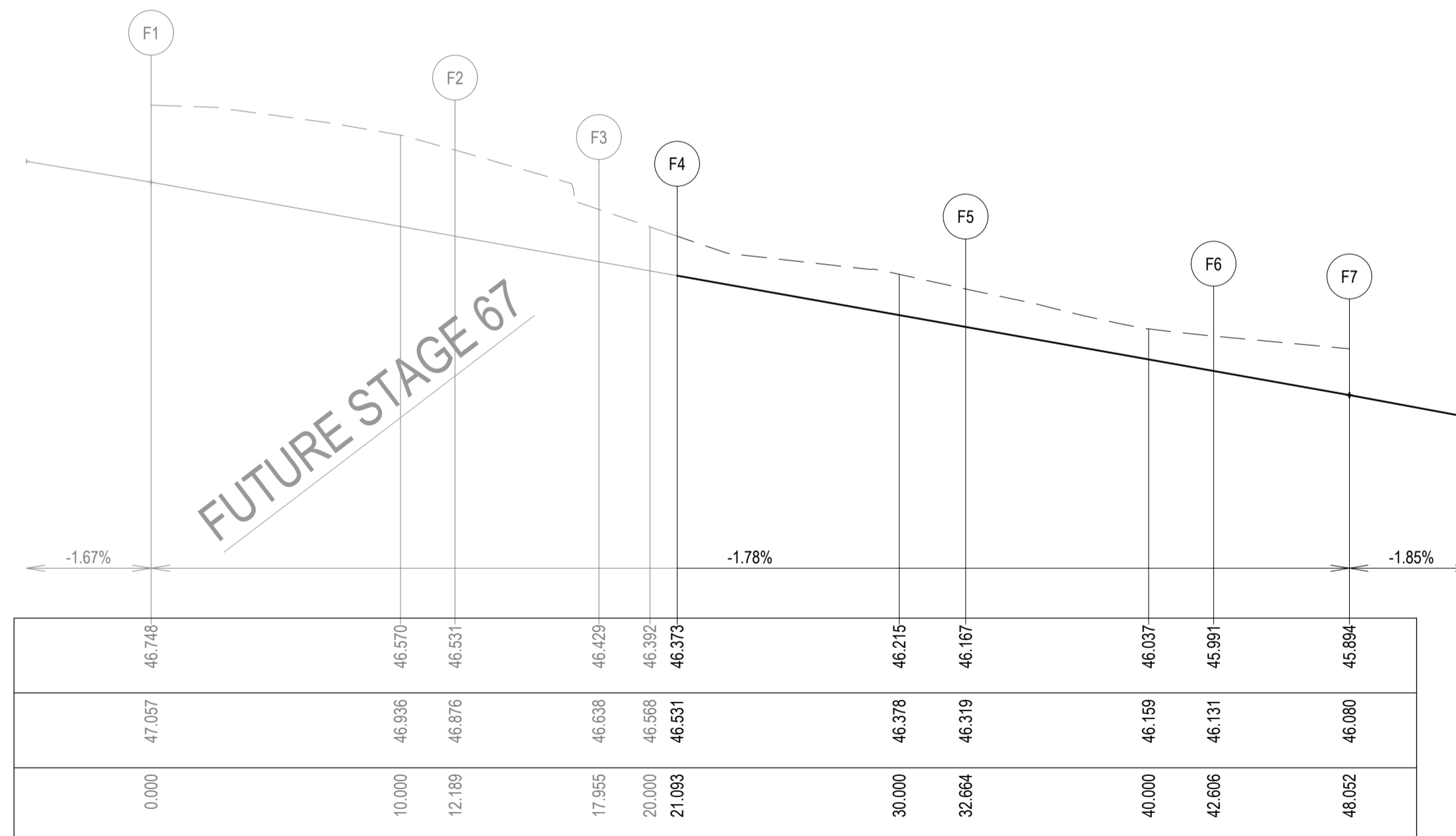
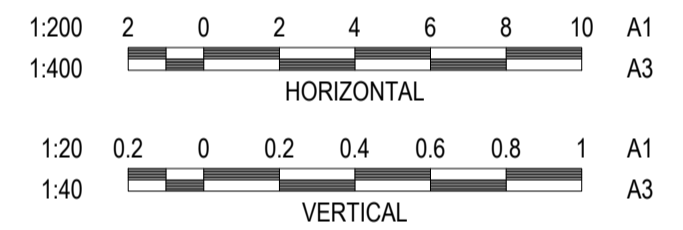
LEGEND - INTERSECTION PLAN

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LEGEND



LIP PROFILE SETOUT



VERTICAL GEOMETRY
DATUM RL45
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

CHAINAGE	DESIGN LEVEL	EXISTING SURFACE
0.000	46.748	47.057
10.000	46.570	46.936
12.189	46.531	46.876
17.955	46.429	46.638
20.000	46.392	46.568
21.083	46.373	46.531
30.000	46.215	46.378
32.664	46.167	46.319
40.000	46.037	46.159
42.806	45.991	46.131
48.652	45.894	46.080

ALIGNMENT F

PT NO	EASTING	NORTHING	RL
F1	264917.631	5766702.972	46.748
F2	264929.733	5766701.524	46.531
F3	264934.955	5766699.272	46.429
F4	264937.363	5766697.261	46.373
F5	264946.246	5766689.845	46.167
F6	264949.766	5766680.981	45.991
F7	264949.12	5766675.573	45.894

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
F2 - F3	33.038	10	5.766	0.413	0.309	1.437	1.407	1.442	46.48
F5 - F6	56.962	10	9.942	1.21	0.903	2.46	2.309	2.485	46.079

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

DRAWING TITLE

**ARMSTRONG - STAGE 47B
INTERSECTION DETAILS - 2**

STATUS

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1

AS SHOWN

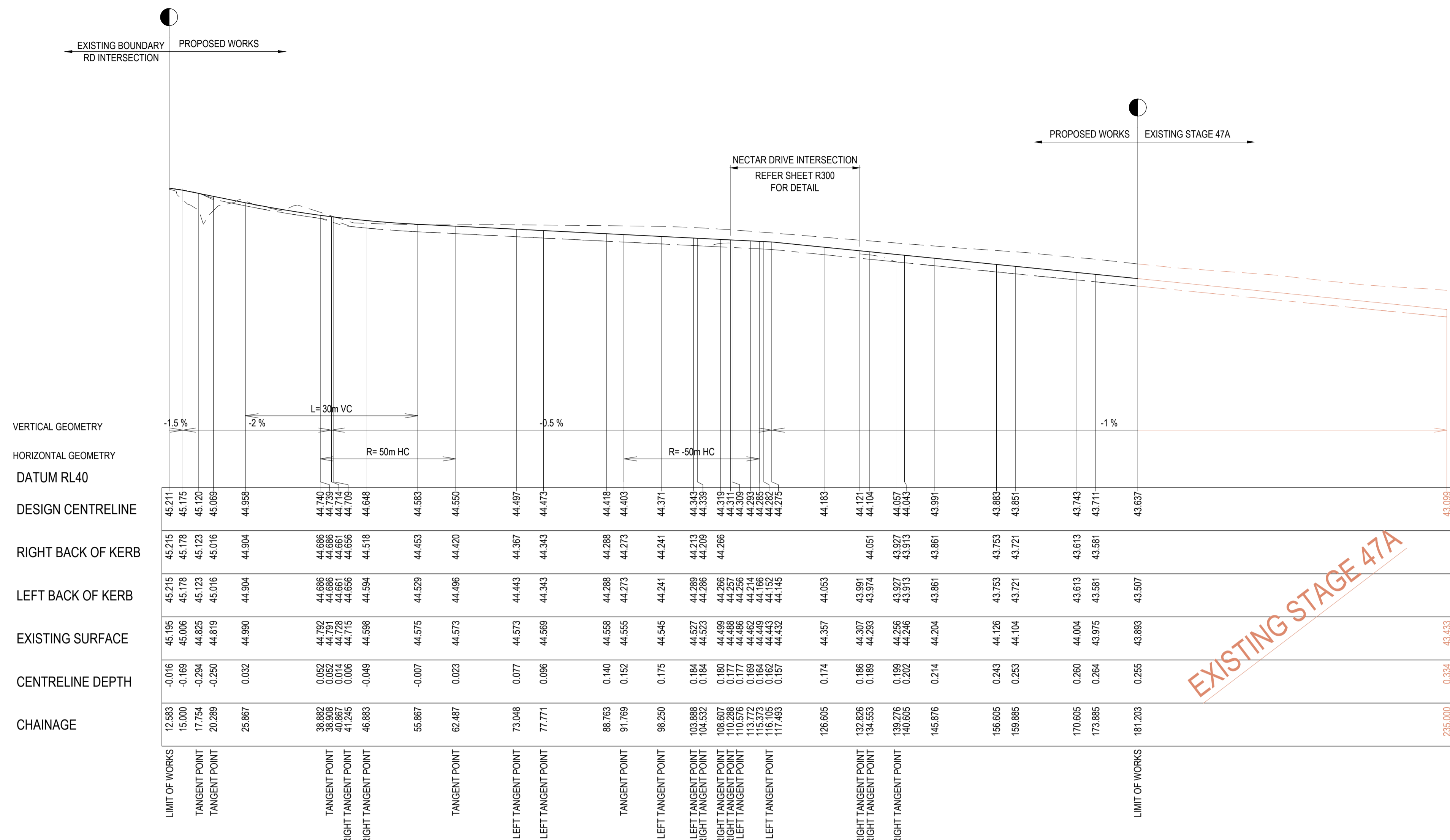
DRAWN: I.HOGAN
DESIGNED: I.HOGAN

PROJECT ENGINEER: M.TROUNCE
PROJECT MANAGER: T.PALIOS
DATE FIRST ISSUE: NOVEMBER 2020

PROJECT No. **180016.47B**

DRAWING No. **R301**

REVISION **0**



CORNFLOWER WAY LONGITUDINAL SECTION

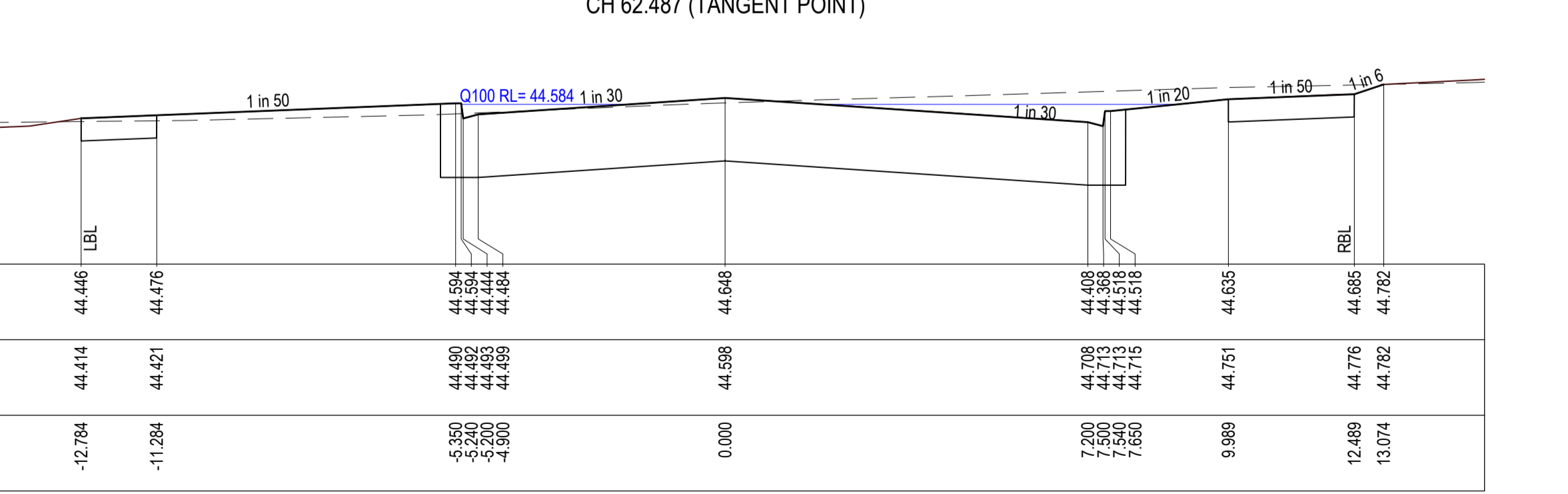
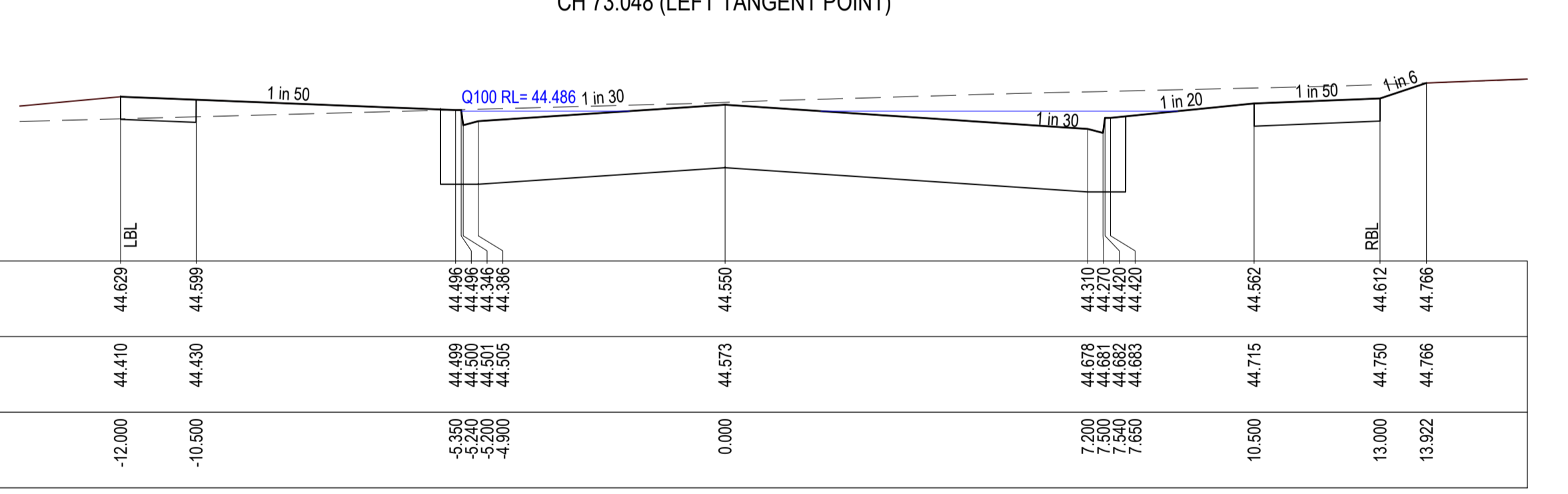
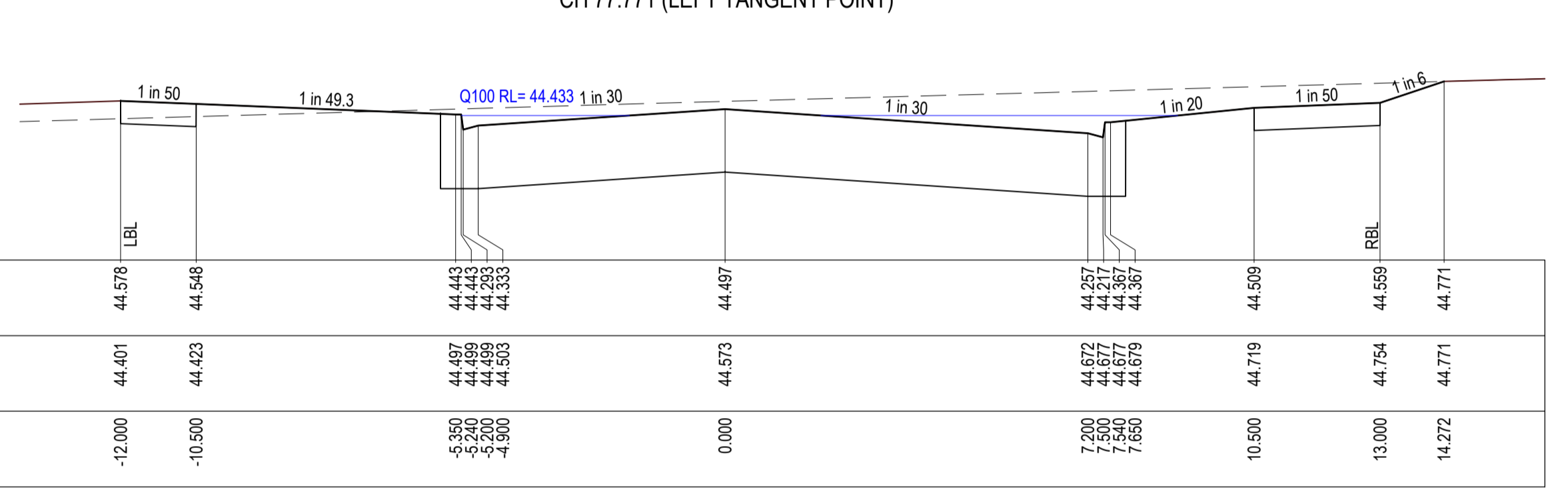
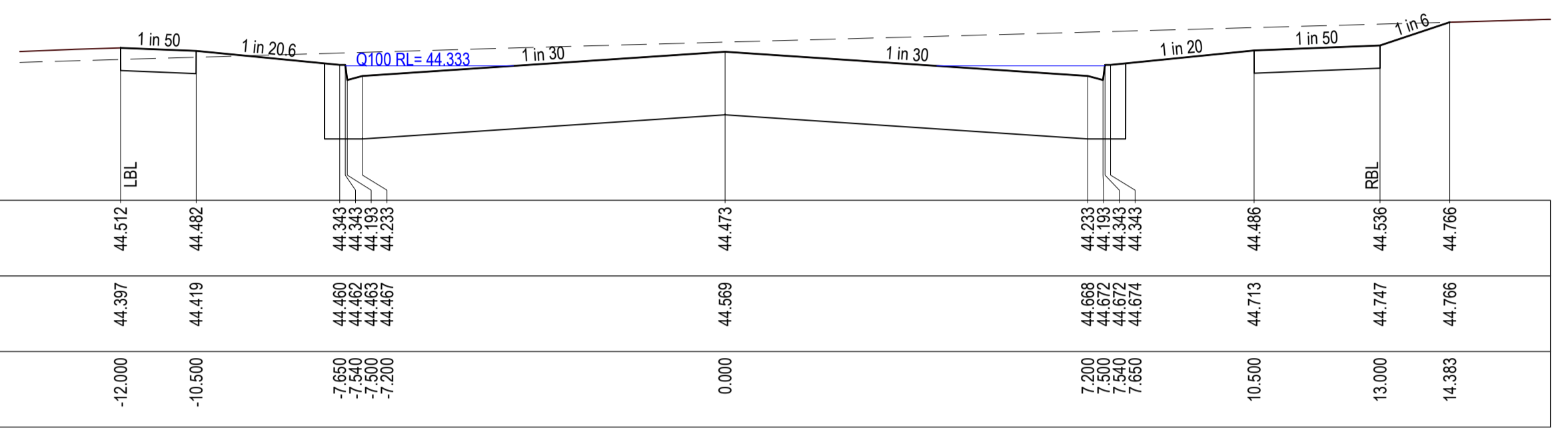
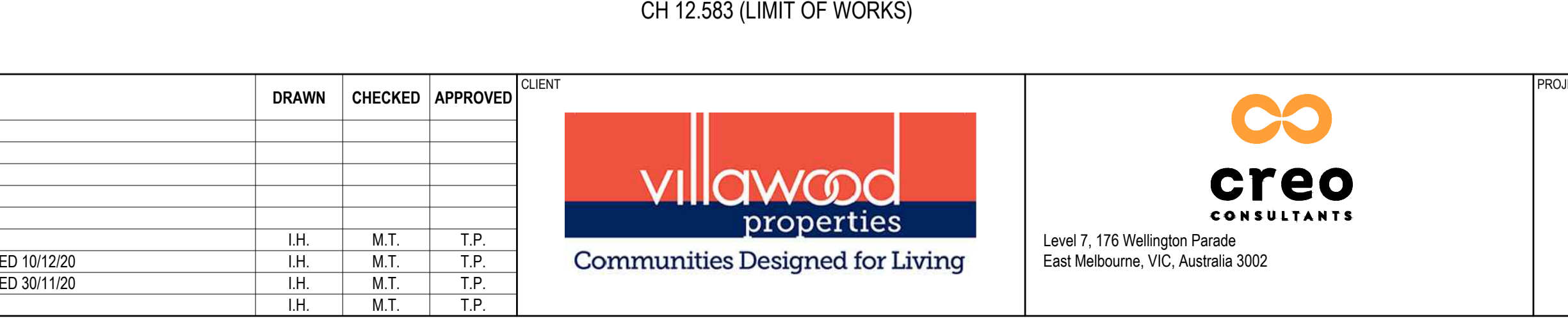
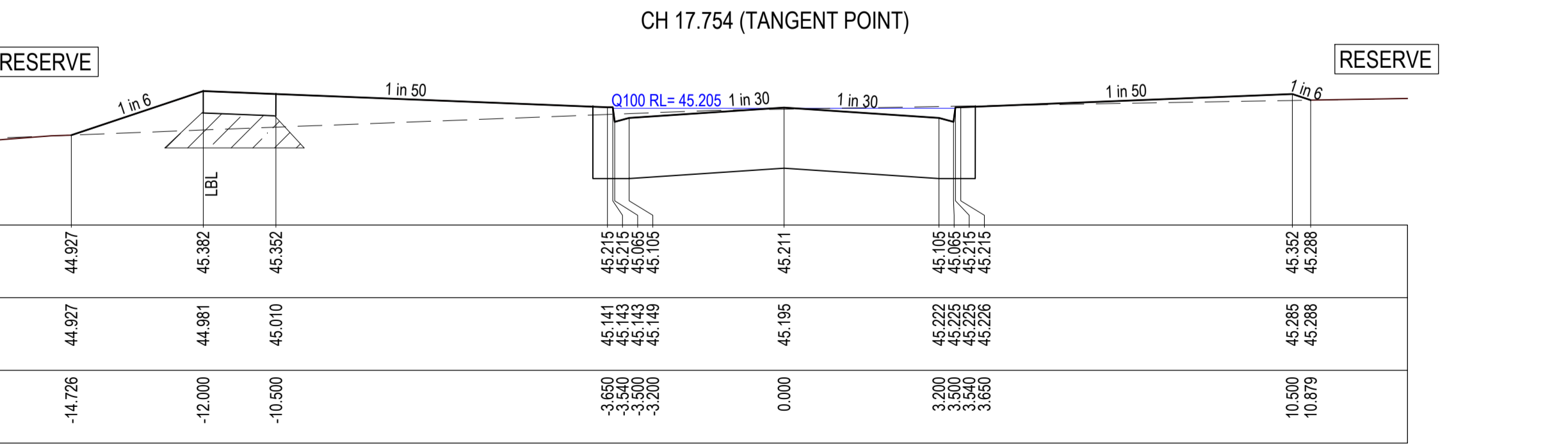
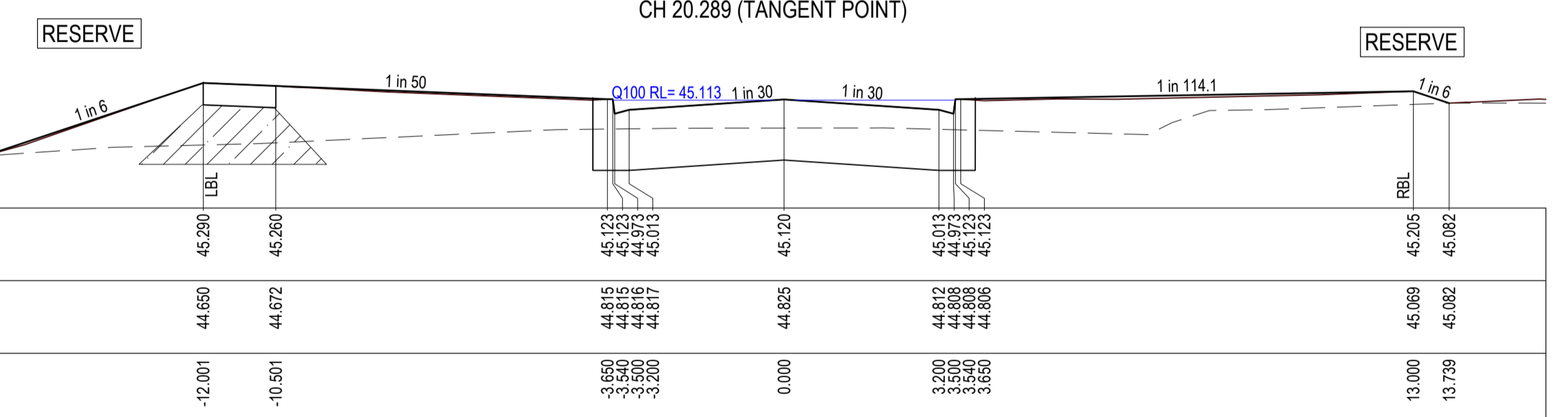
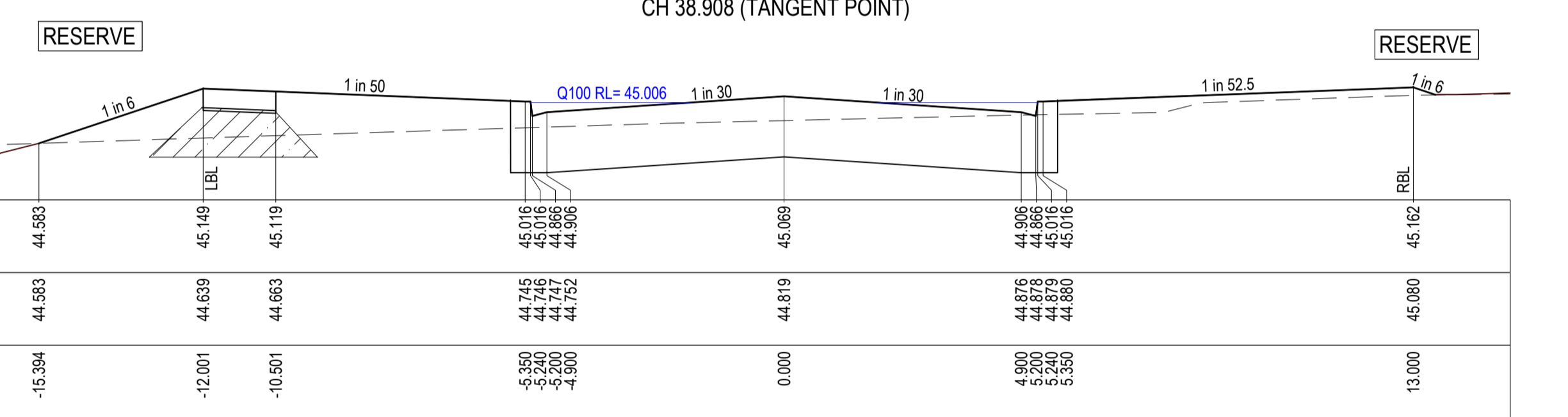
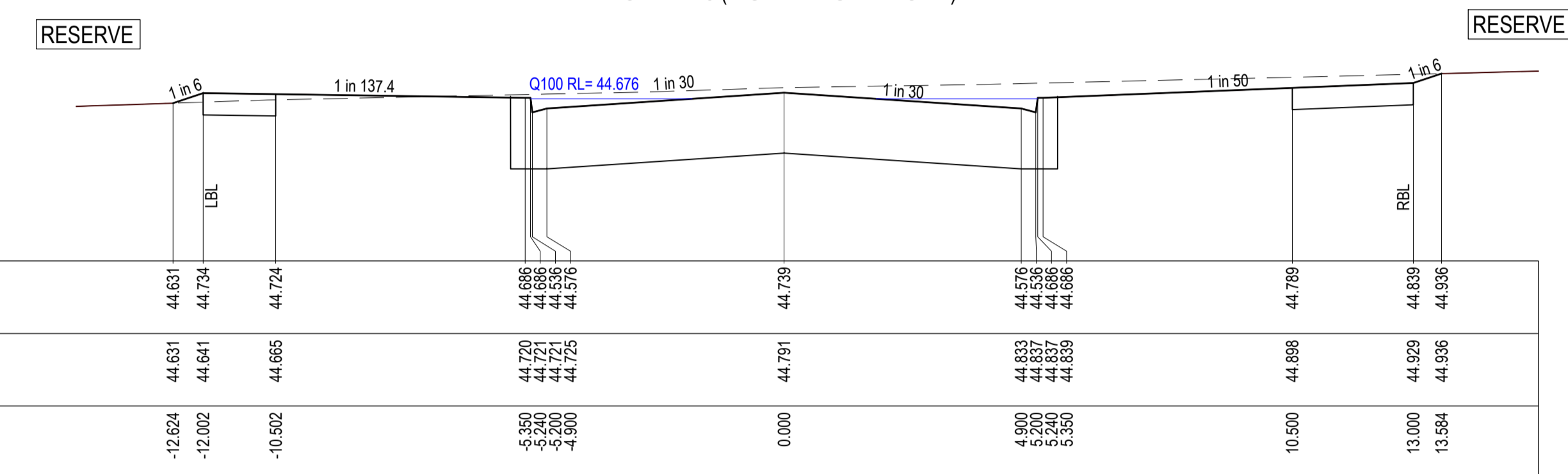
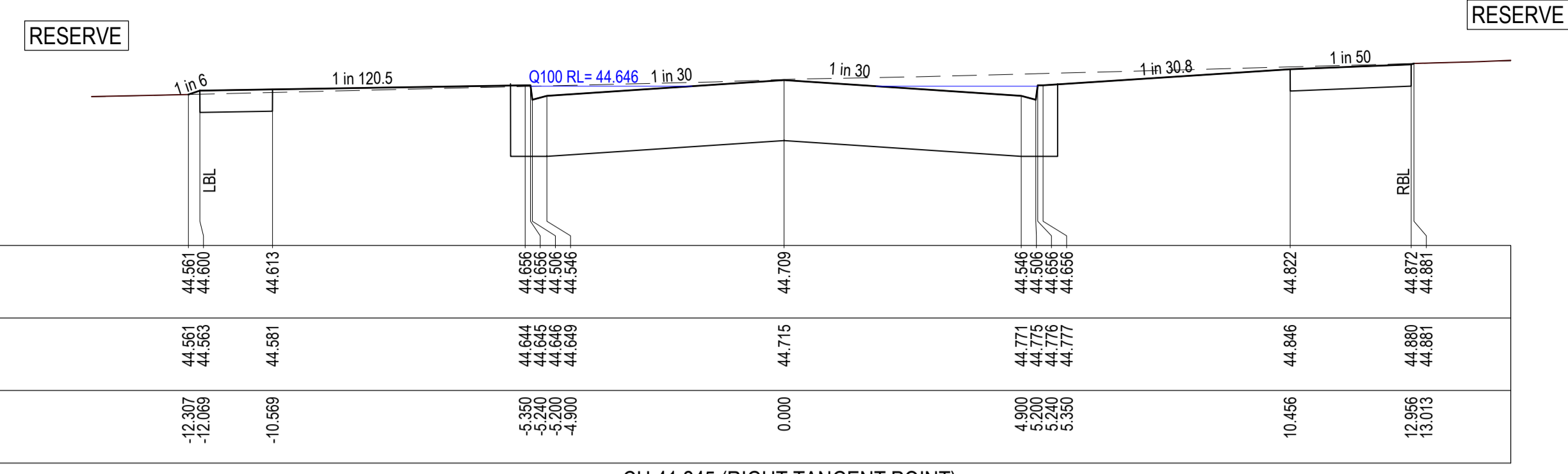
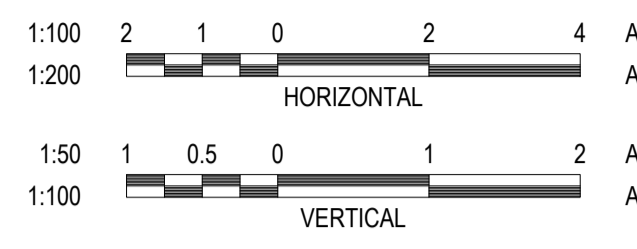
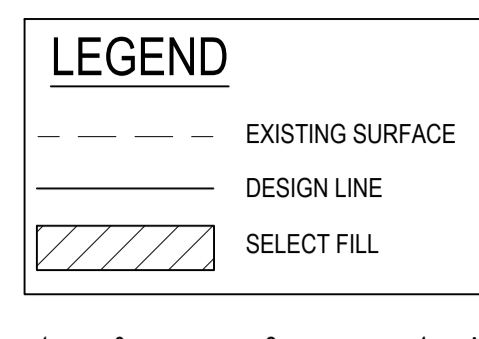
VERTICAL GEOMETRY	HORIZONTAL GEOMETRY	DATUM RL40	DESIGN CENTRELINE	RIGHT BACK OF KERB	LEFT BACK OF KERB	EXISTING SURFACE	CENTRELINE DEPTH	CHAINAGE
-1.5%		45.211	45.211	45.215	45.195	45.195	-0.016	12.583
-2%		45.175	45.175	45.178	45.006	45.006	-0.169	15.000
		45.120	45.120	45.123	44.825	44.825	-0.294	17.754
		45.069	45.069	45.016	44.819	44.819	-0.250	20.289
		44.986	44.986	44.904	44.990	44.990	0.032	25.867
	L=30m VC	44.740	44.740	44.686	44.792	44.792	0.052	38.882
		44.739	44.739	44.686	44.791	44.791	0.052	38.898
		44.738	44.738	44.686	44.790	44.790	0.052	38.914
		44.737	44.737	44.686	44.789	44.789	0.052	38.930
		44.736	44.736	44.686	44.788	44.788	0.052	38.946
		44.735	44.735	44.686	44.787	44.787	0.052	38.962
		44.734	44.734	44.686	44.786	44.786	0.052	38.978
		44.733	44.733	44.686	44.785	44.785	0.052	38.994
		44.732	44.732	44.686	44.784	44.784	0.052	39.010
		44.731	44.731	44.686	44.783	44.783	0.052	39.026
		44.730	44.730	44.686	44.782	44.782	0.052	39.042
		44.729	44.729	44.686	44.781	44.781	0.052	39.058
		44.728	44.728	44.686	44.780	44.780	0.052	39.074
		44.727	44.727	44.686	44.779	44.779	0.052	39.090
		44.726	44.726	44.686	44.778	44.778	0.052	39.106
		44.725	44.725	44.686	44.777	44.777	0.052	39.122
		44.724	44.724	44.686	44.776	44.776	0.052	39.138
		44.723	44.723	44.686	44.775	44.775	0.052	39.154
		44.722	44.722	44.686	44.774	44.774	0.052	39.170
		44.721	44.721	44.686	44.773	44.773	0.052	39.186
		44.720	44.720	44.686	44.772	44.772	0.052	39.202
		44.719	44.719	44.686	44.771	44.771	0.052	39.218
		44.718	44.718	44.686	44.770	44.770	0.052	39.234
		44.717	44.717	44.686	44.769	44.769	0.052	39.250
		44.716	44.716	44.686	44.768	44.768	0.052	39.266
		44.715	44.715	44.686	44.767	44.767	0.052	39.282
		44.714	44.714	44.686	44.766	44.766	0.052	39.298
		44.713	44.713	44.686	44.765	44.765	0.052	39.314
		44.712	44.712	44.686	44.764	44.764	0.052	39.330
		44.711	44.711	44.686	44.763	44.763	0.052	39.346
		44.710	44.710	44.686	44.762	44.762	0.052	39.362
		44.709	44.709	44.686	44.761	44.761	0.052	39.378
		44.708	44.708	44.686	44.760	44.760	0.052	39.394
		44.707	44.707	44.686	44.759	44.759	0.052	39.410
		44.706	44.706	44.686	44.758	44.758	0.052	39.426
		44.705	44.705	44.686	44.757	44.757	0.052	39.442
		44.704	44.704	44.686	44.756	44.756	0.052	39.458
		44.703	44.703	44.686	44.755	44.755	0.052	39.474
		44.702	44.702	44.686	44.754	44.754	0.052	39.490
		44.701	44.701	44.686	44.753	44.753	0.052	39.506
		44.700	44.700	44.686	44.752	44.752	0.052	39.522
		44.699	44.699	44.686	44.751	44.751	0.052	39.538
		44.698	44.698	44.686	44.750	44.750	0.052	39.554
		44.697	44.697	44.686	44.749	44.749	0.052	39.570
		44.696	44.696	44.686	44.748	44.748	0.052	39.586
		44.695	44.695	44.686	44.747	44.747	0.052	39.602
		44.694	44.694	44.686	44.746	44.746	0.052	39.618
		44.693	44.693	44.686	44.745	44.745	0.052	39.634
		44.692	44.692	44.686	44.744	44.744	0.052	39.650
		44.691	44.691	44.686	44.743	44.743	0.052	39.666
		44.690	44.690	44.686	44.742	44.742	0.052	39.682
		44.689	44.689	44.686	44.741	44.741	0.052	39.698
		44.688	44.688	44.686	44.740	44.740	0.052	39.714
		44.687	44.687	44.686	44.739	44.739	0.052	39.730
		44.686	44.686	44.686	44.738	44.738	0.052	39.746
		44.685	44.685	44.686	44.737	44.737	0.052	39.762
		44.684	44.684	44.686	44.736	44.736	0.052	39.778
		44.683	44.683	44.686	44.735	44.735	0.052	39.794
		44.682	44.682	44.686	44.734	44.734	0.052	39.810
		44.681	44.681	44.686	44.733	44.733	0.052	39.826
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		44.679	44.679	44.686	44.731	44.731	0.052	39.858
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		44.677	44.677	44.686	44.729	44.729	0.052	39.890
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		44.665	44.665	44.686	44.717	44.717	0.052	40.082
		44.664	44.664	44.686	44.716	44.716	0.052	40.098
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		44.662	44.662	44.686	44.714	44.714	0.052	40.130
		44.661	44.661	44.686	44.713	44.713	0.052	40.146
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		44.659	44.659	44.686	44.711	44.711	0.052	40.178
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		44.657	44.657	44.686	44.709	44.709	0.052	40.210
		44.656	44.656	44.686	44.708	44.708	0.052	40.226
		44.655	44.655	44.686	44.707	44.707	0.052	40.242
		44.654	44.654	44.686	44.706	44.706	0.052	40.258
		44.653	44.653	44.686	44.705	44.705	0.052	40.274
		44.652	44.652	44.686	44.704	44.704	0.052	40.290
		44.651	44.651	44.686	44.703	44.703	0.052	40.306
		44.650	44.650	44.686	44.702	44.702	0.052	40.322
		44.649	44.649	44.686	44.701	44.701	0.052	40.338
		44.648	44.648	44.686	44.700	44.700	0.052	40.354
		44.647	44.647	44.686	44.699	44.699	0.052	40.370
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		44.644	44.644	44.686	44.696	44.696	0.052	40.418
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		44.642	44.642	44.686	44.694	44.694	0.052	40.450
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		44.636	44.636	44.686	44.688	44.688	0.052	40.546
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		44.628	44.628	44.686	44.680	44.680	0.052	40.674
		44.627	44.627	44.686	44.679	44.679	0.052	40.690
		44.626	44.626	44.686	44.678	44.678	0.052	40.706

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

WARNING
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www.1100.com.au



P:\2018\18016 - VILLAWOOD ARMSTRONG\18016_47B - R500 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

creo CONSULTANTS

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT

DRAWING TITLE

**ARMSTRONG - STAGE 47B
ROAD CROSS SECTIONS - 1
CORNFLOWER WAY - SHEET 1**

STATUS

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R500	0

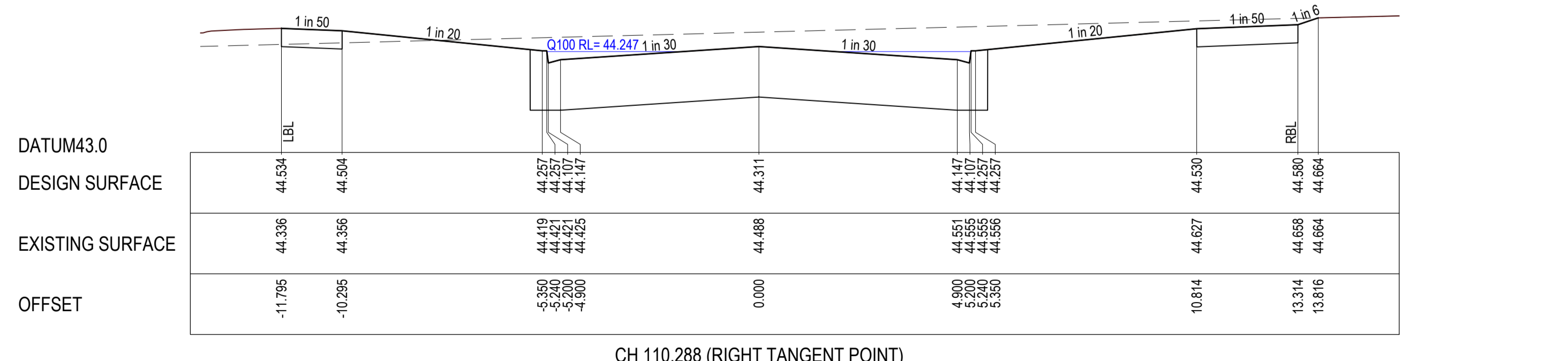
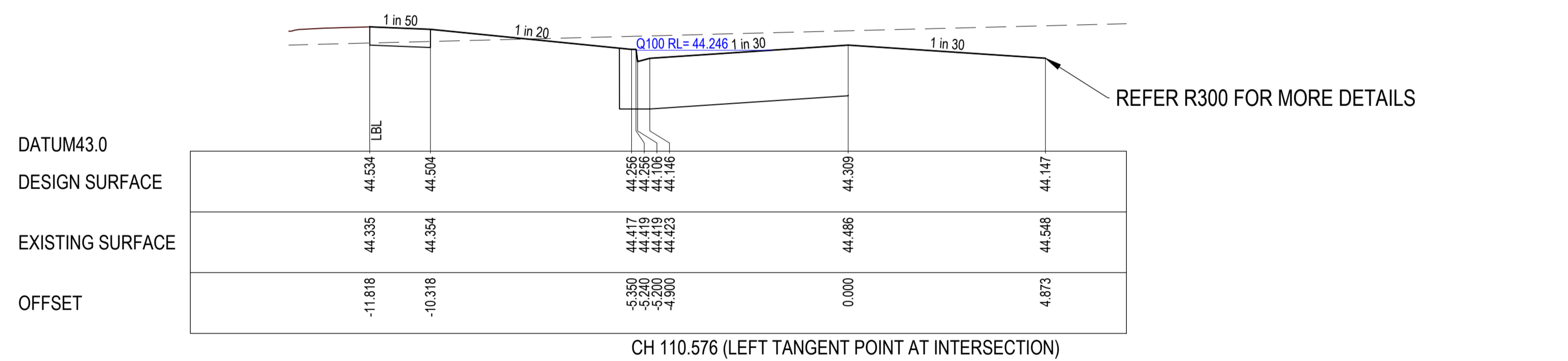
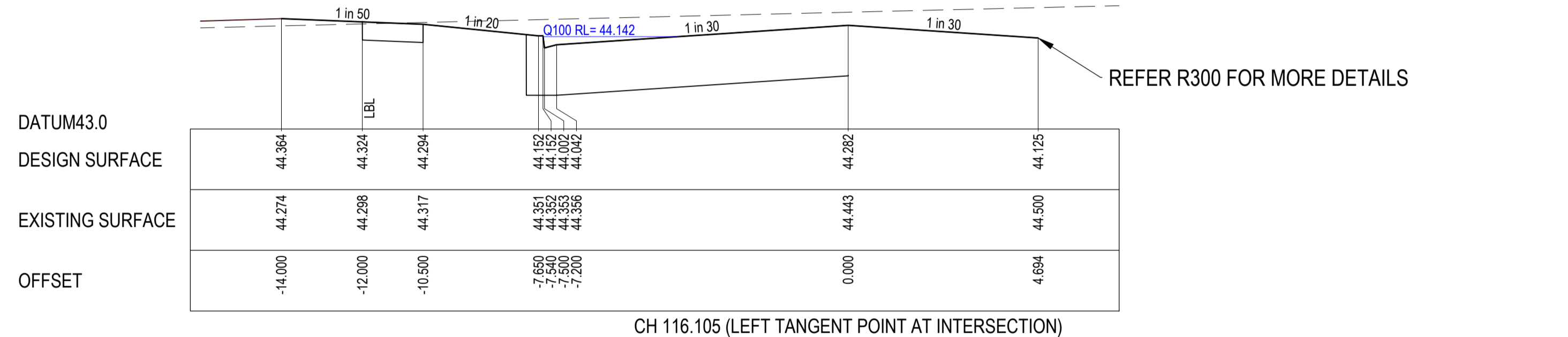
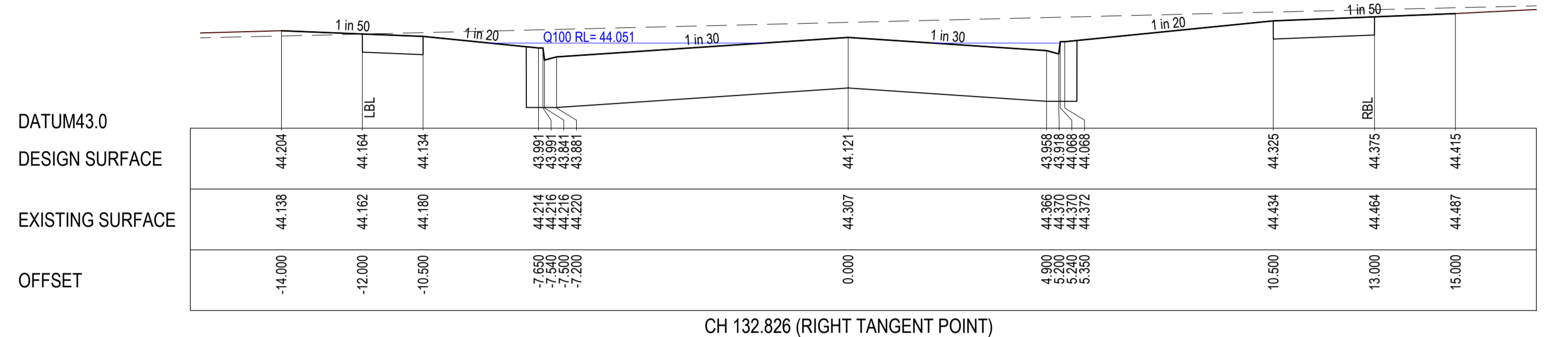
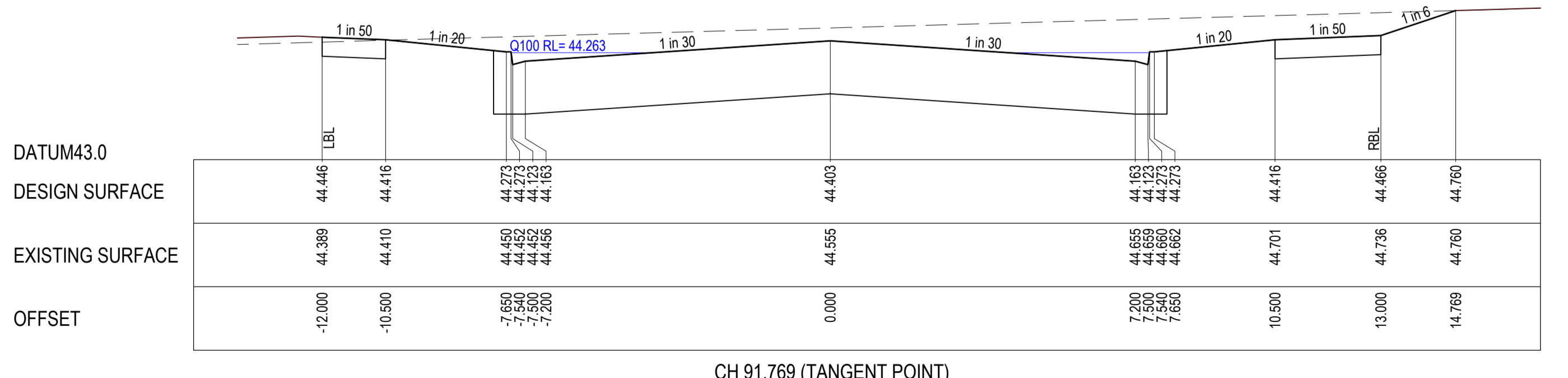
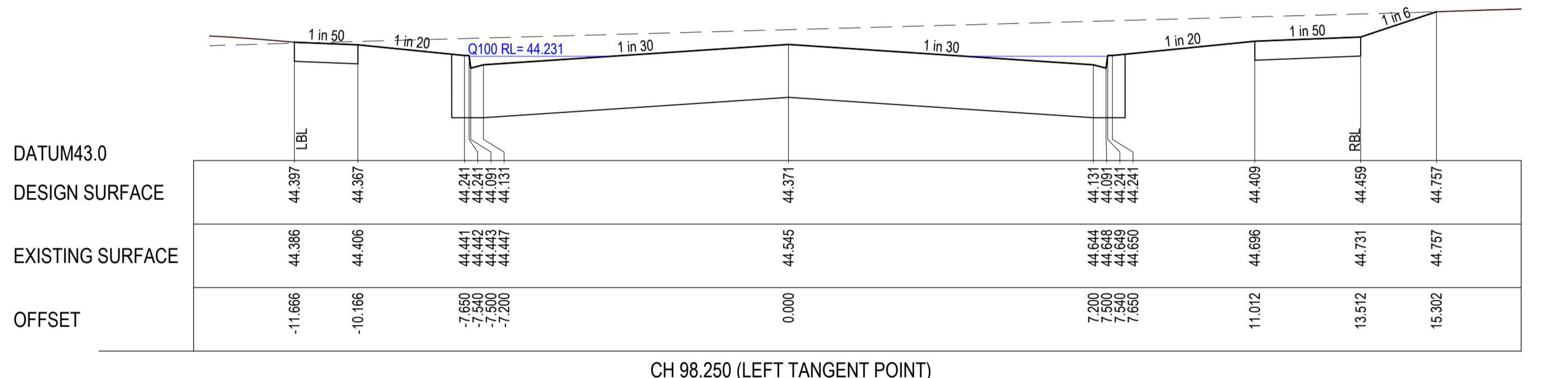
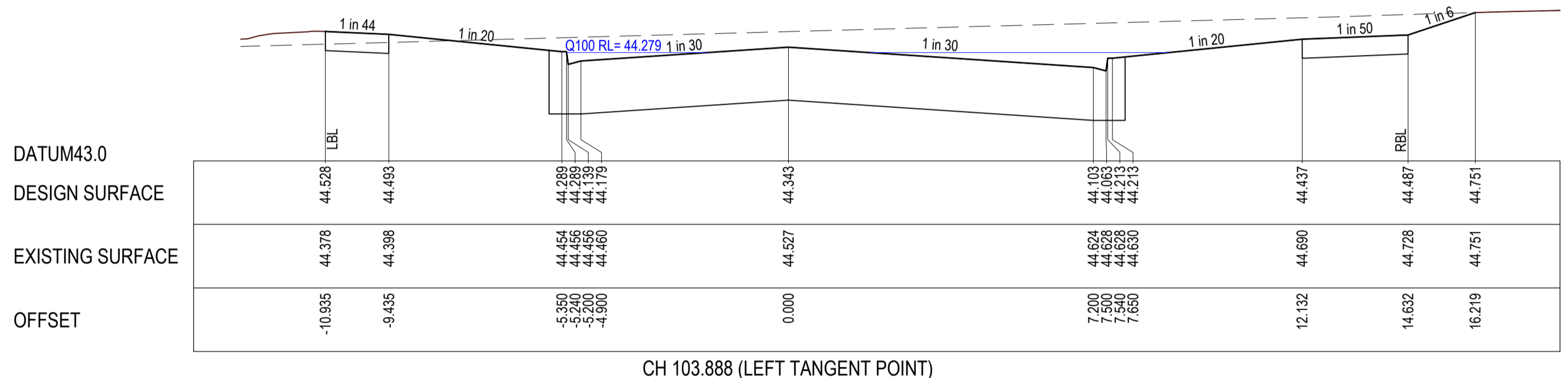
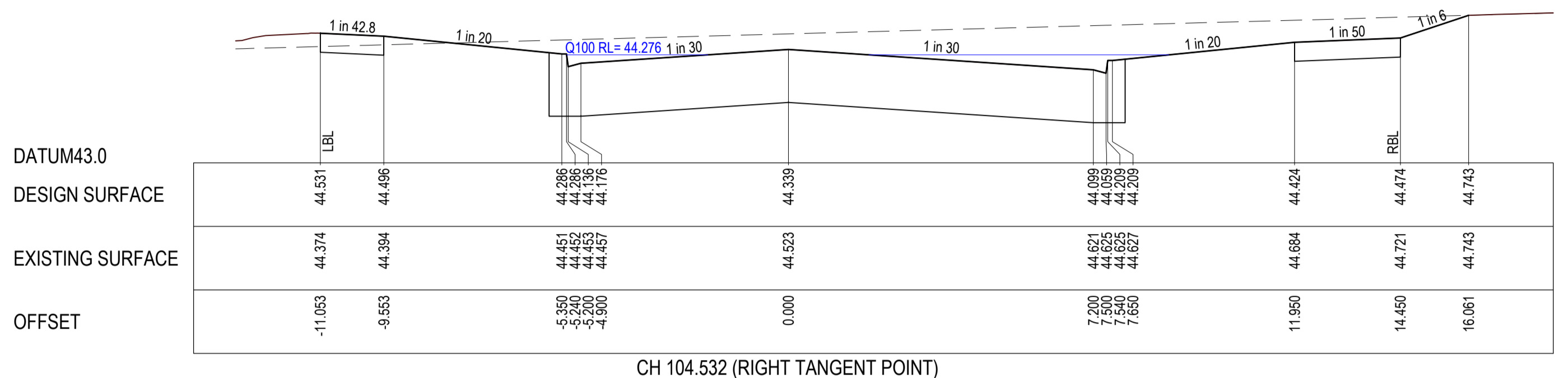
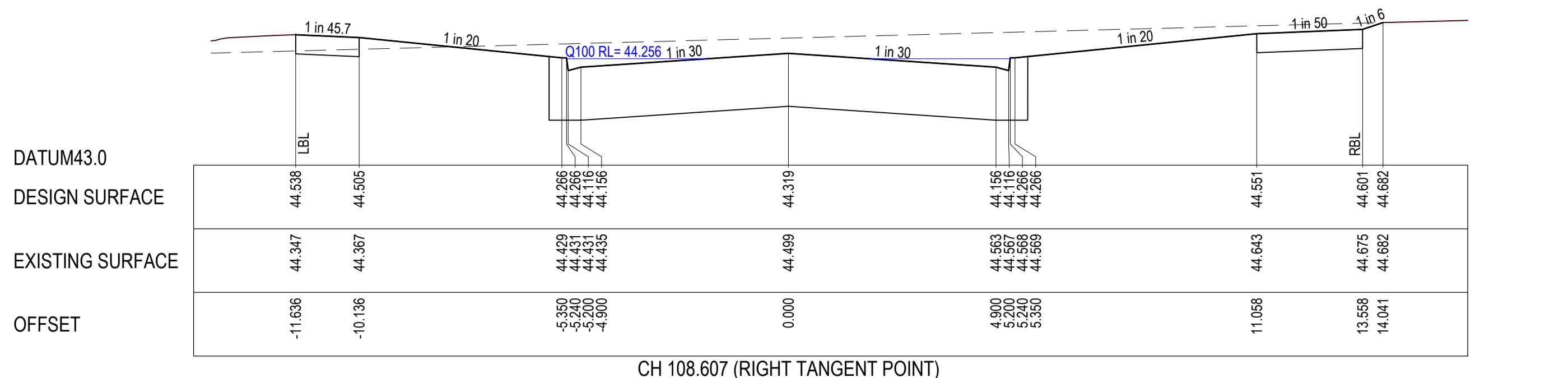
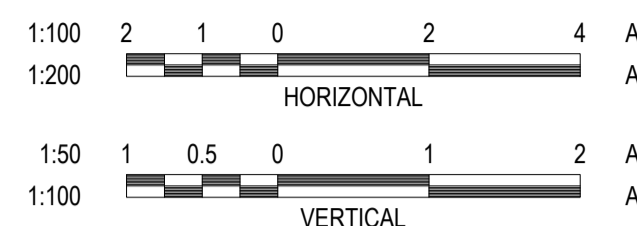
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
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LEGEND
--- EXISTING SURFACE
— DESIGN LINE
/// SELECT FILL



P:\2018\18016 - VILLAWOOD ARMSTRONG STAGE 47B - R501 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

creo CONSULTANTS

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT

ARMSTRONG - STAGE 47B
ROAD CROSS SECTIONS - 2
CORNFLOWER WAY - SHEET 2

DRAWING TITLE

ARMSTRONG - STAGE 47B
ROAD CROSS SECTIONS - 2
CORNFLOWER WAY - SHEET 2

STATUS

ISSUED FOR CONSTRUCTION

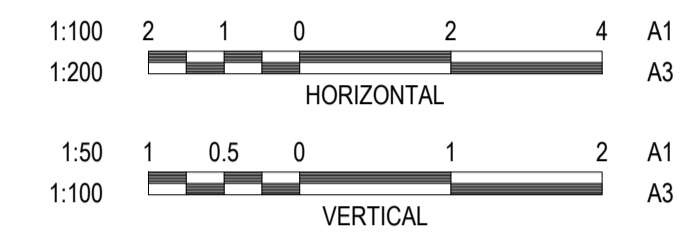
SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R501	0

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DIAL 1100 BEFORE YOU DIG
 www.1100.com.au

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

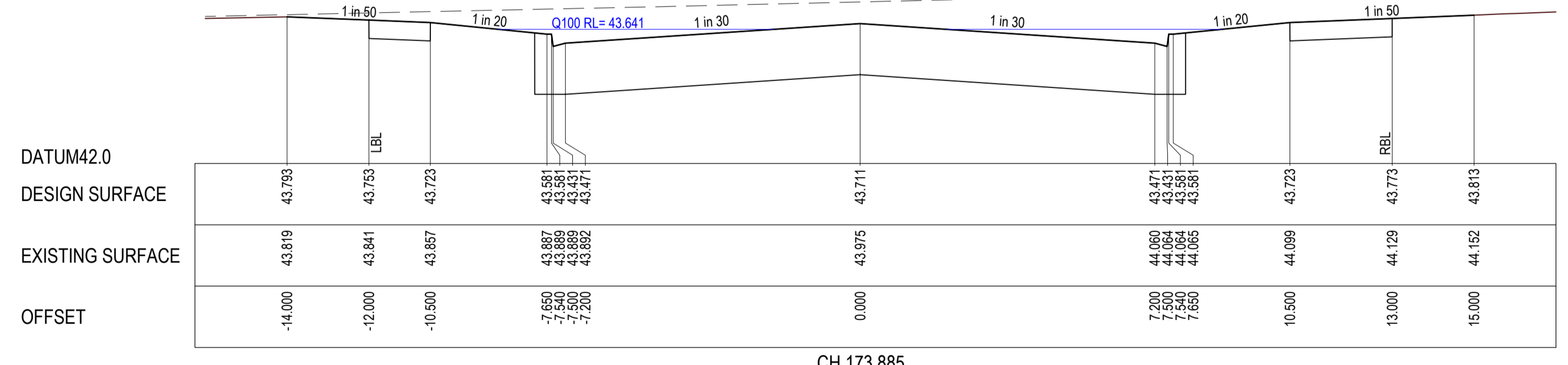
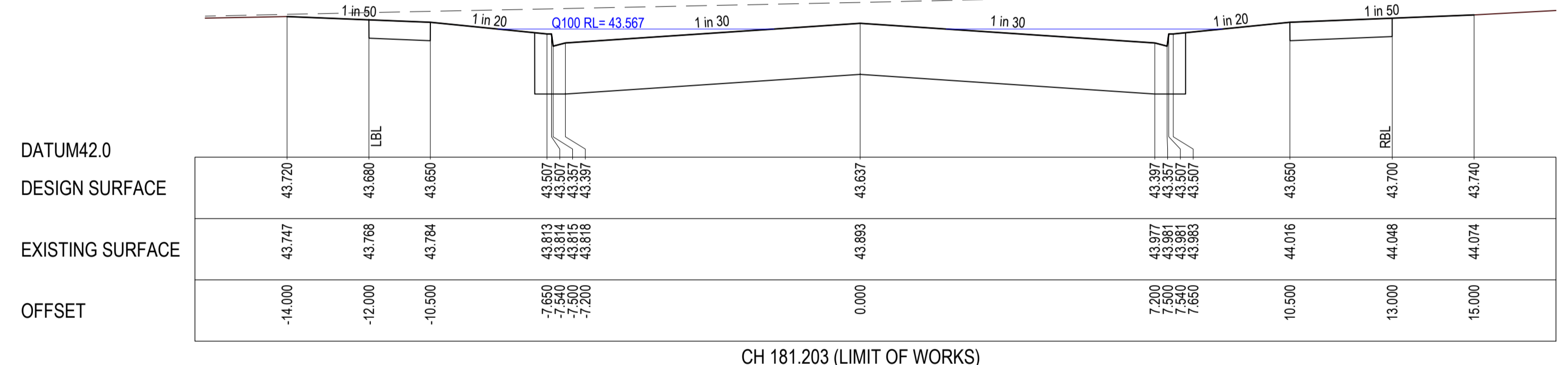
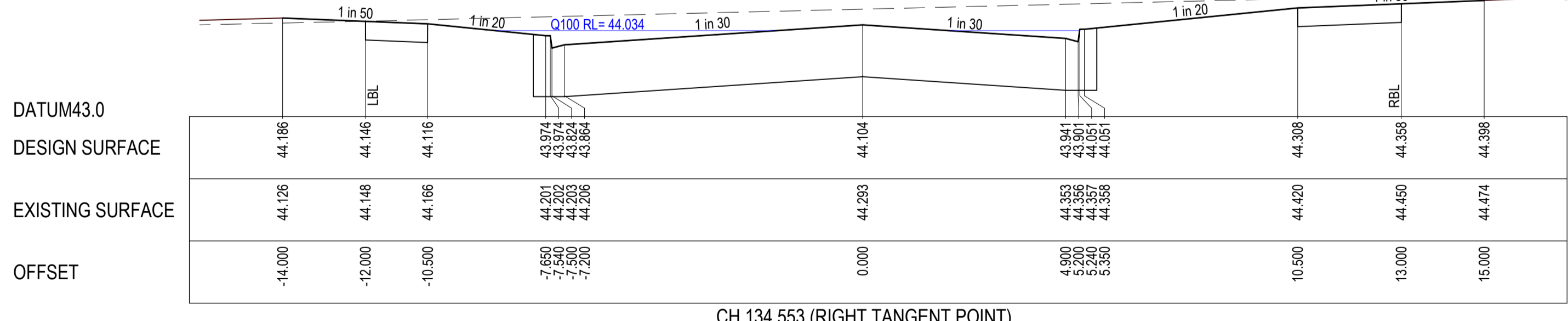
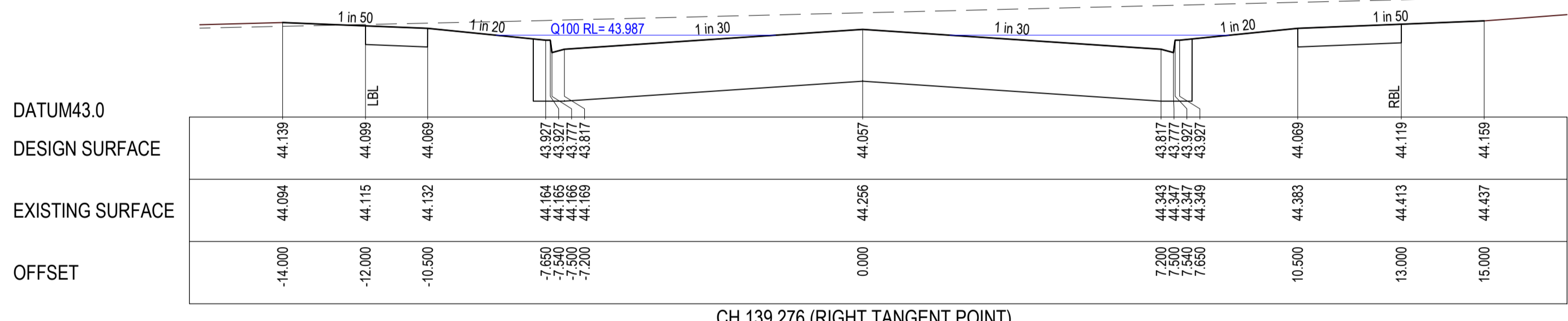
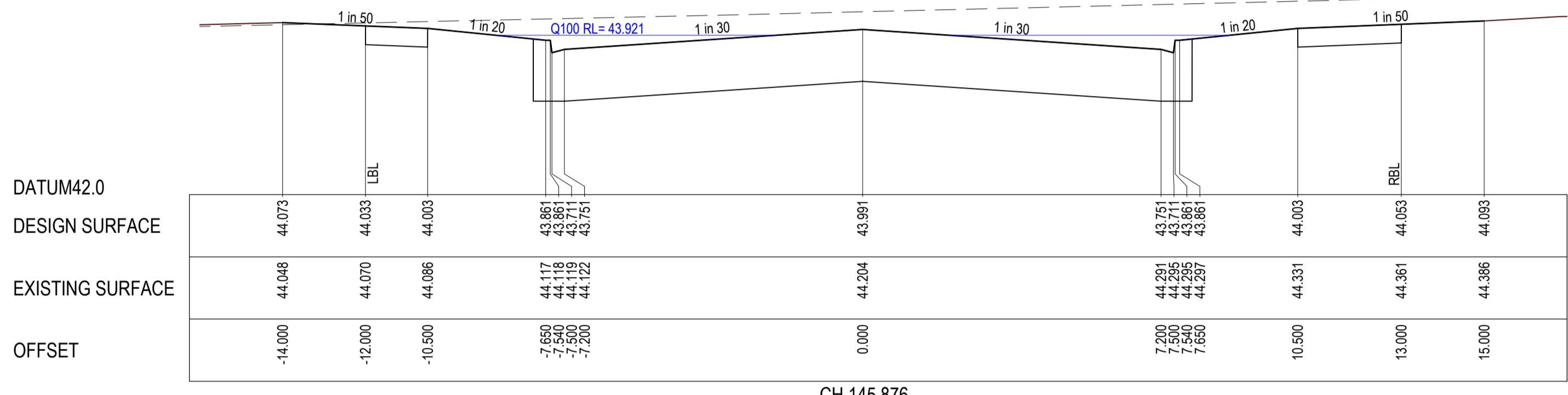
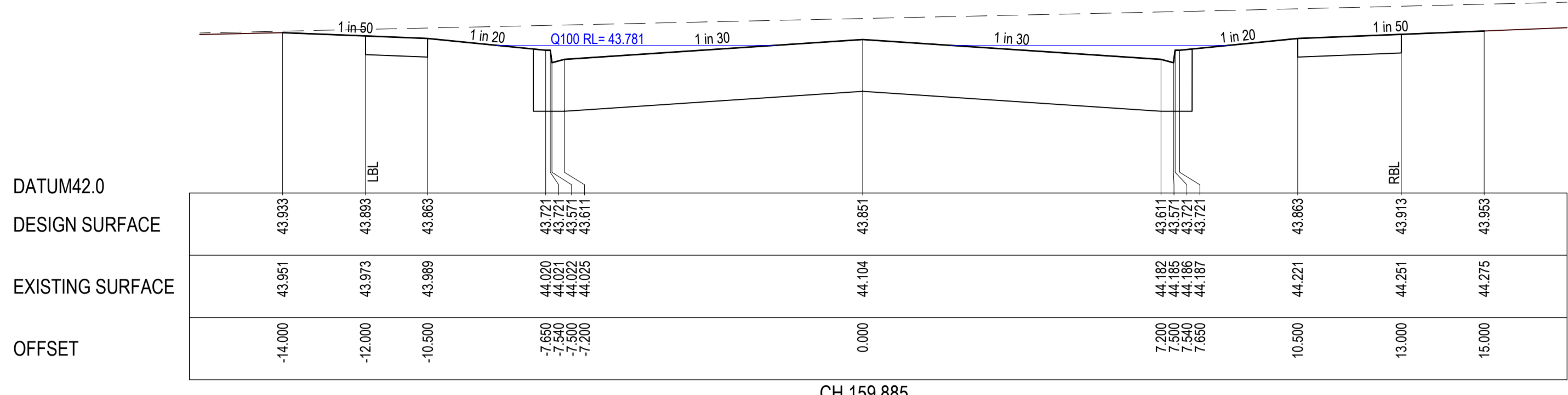
LEGEND

	EXISTING SURFACE
	DESIGN LINE
	SELECT FILL



NOTE
 SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
 CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES



P:\2018\18016 - VILLAWOOD ARMSTRONGS\18016-47B\18016-47B-R502 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

villawood
 properties
 Communities Designed for Living

creo
 CONSULTANTS
 Level 7, 176 Wellington Parade
 East Melbourne, VIC, Australia 3002

ARMSTRONG
 MTD UNDEED

**ARMSTRONG - STAGE 47B
 ROAD CROSS SECTIONS - 3
 CORNFLOWER WAY - SHEET 3**

**ISSUED FOR
 CONSTRUCTION**

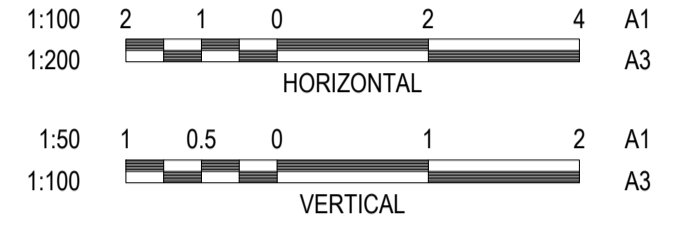
SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R502	0

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
 The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
 www.1100.com.au

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

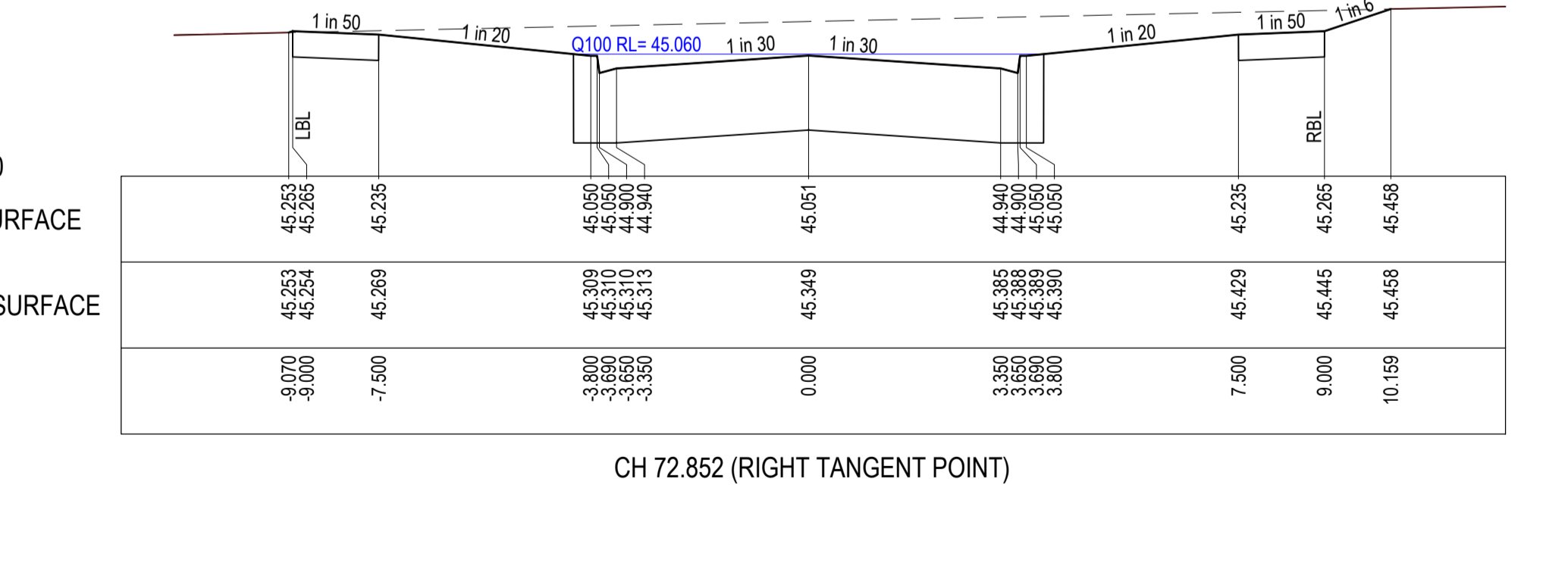
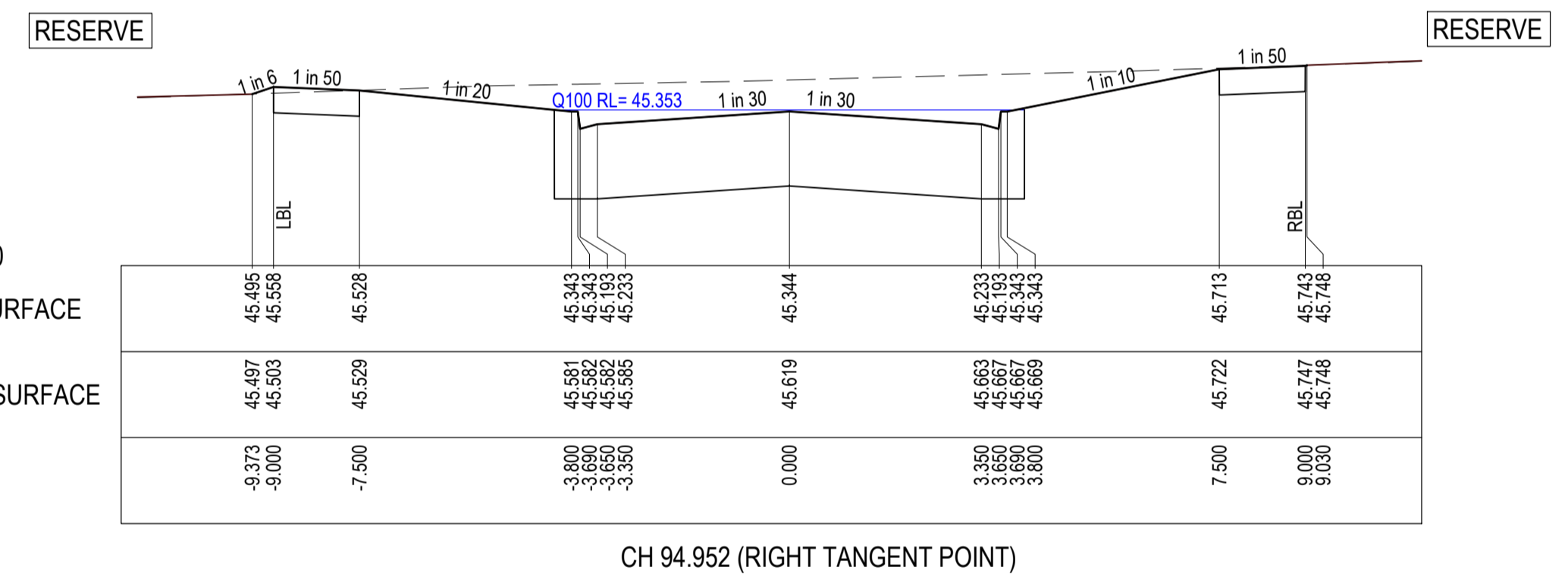
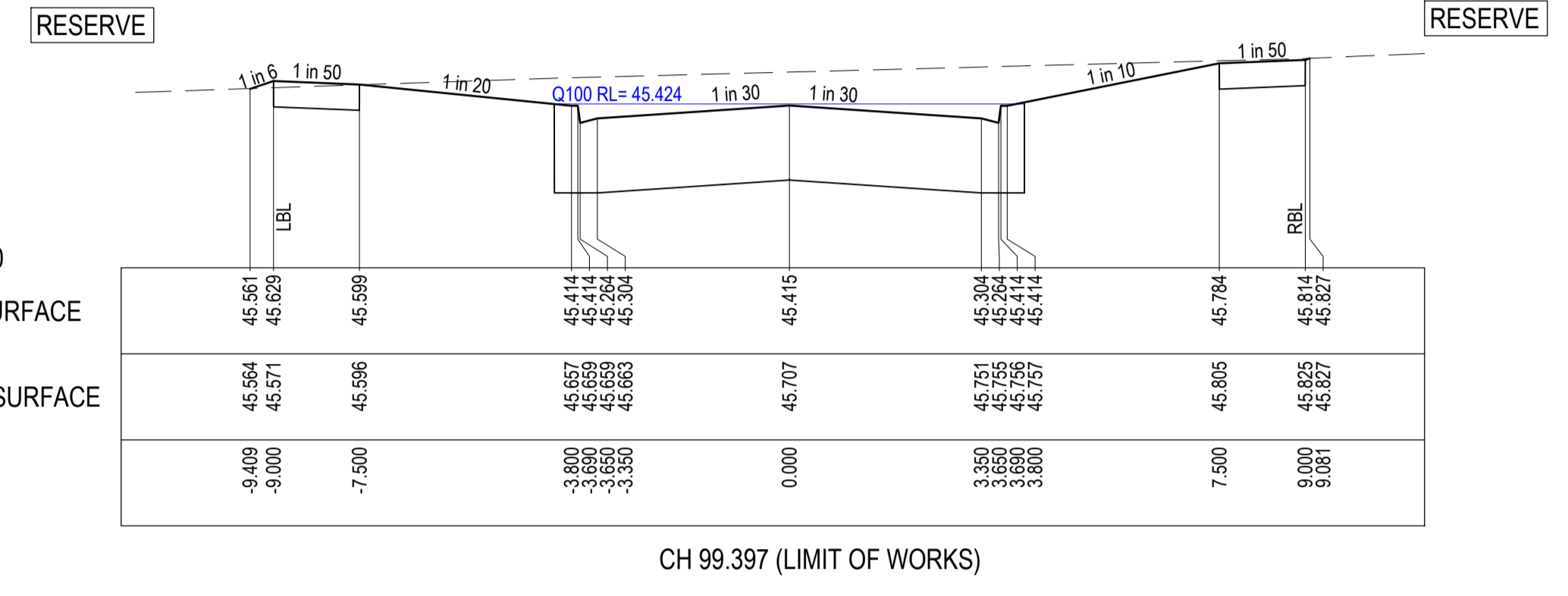
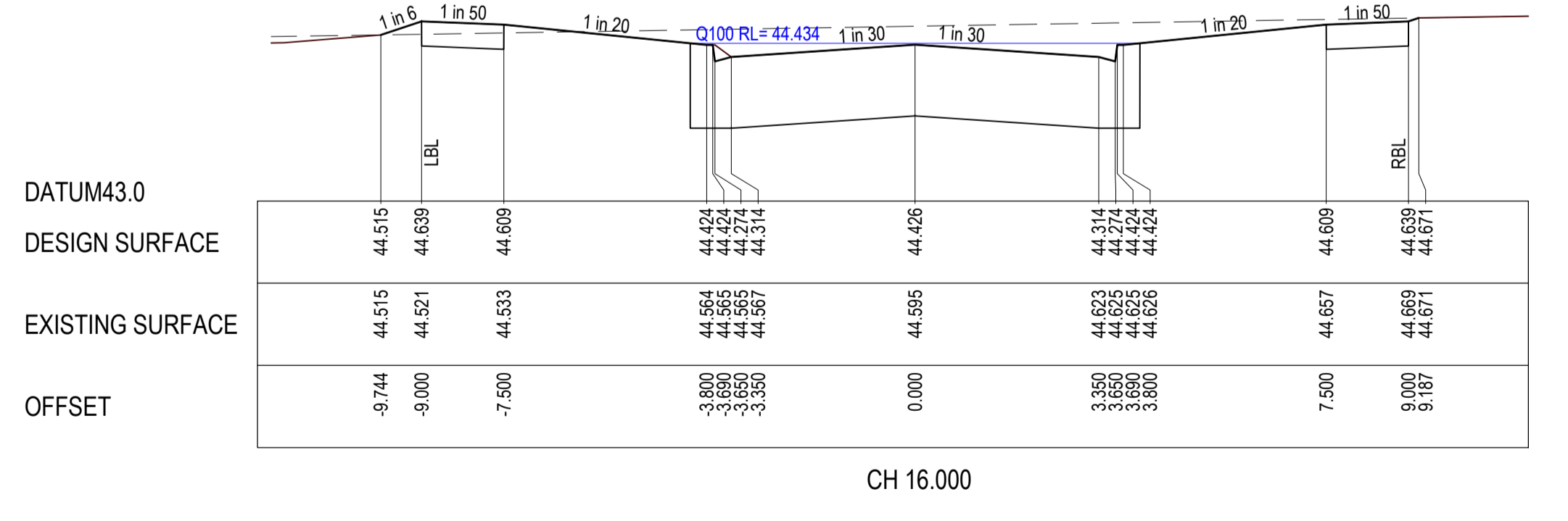
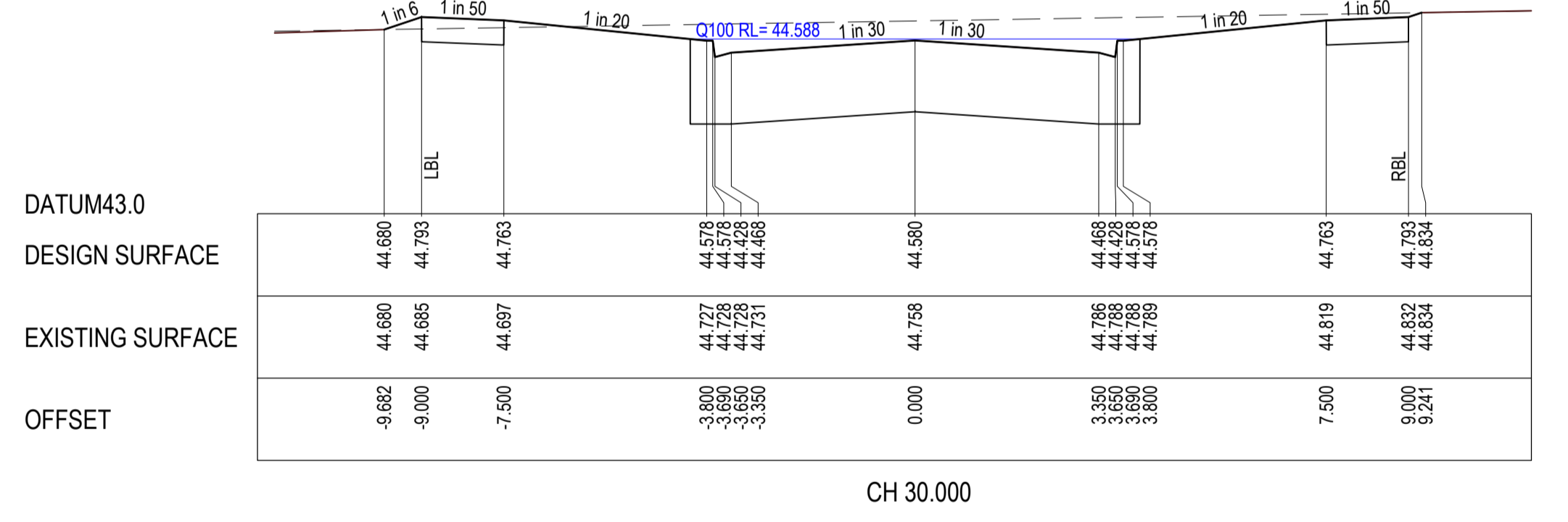
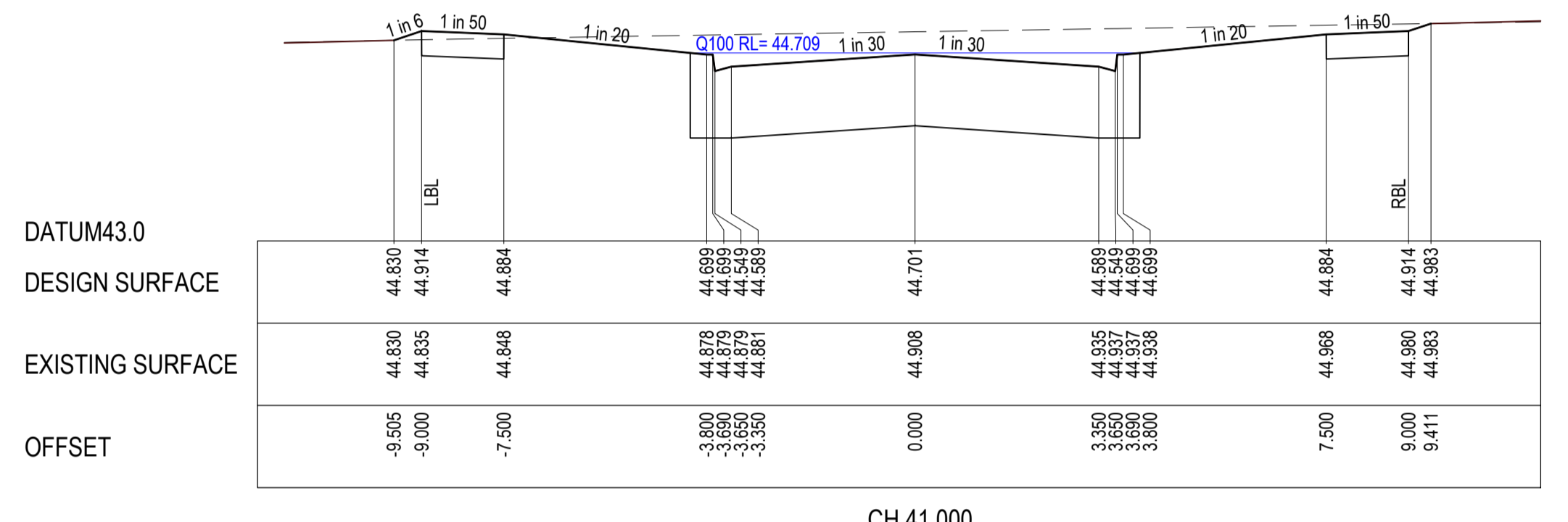
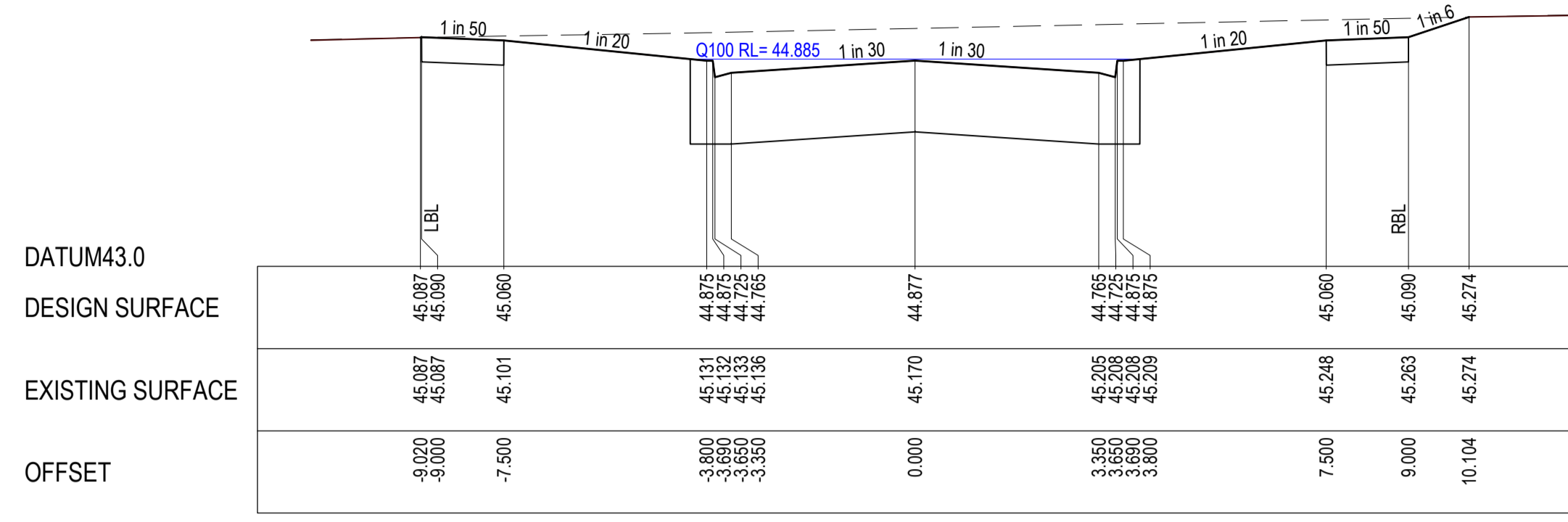
LEGEND

	EXISTING SURFACE
	DESIGN LINE
	SELECT FILL



NOTE
 SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
 CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY. READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES



P:\2018\18016 - VILAWOOD ARMSTRONGS\18016-47B\18016-47B - R500 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

creo CONSULTANTS

Level 7, 176 Wellington Parade
 East Melbourne, VIC, Australia 3002

PROJECT

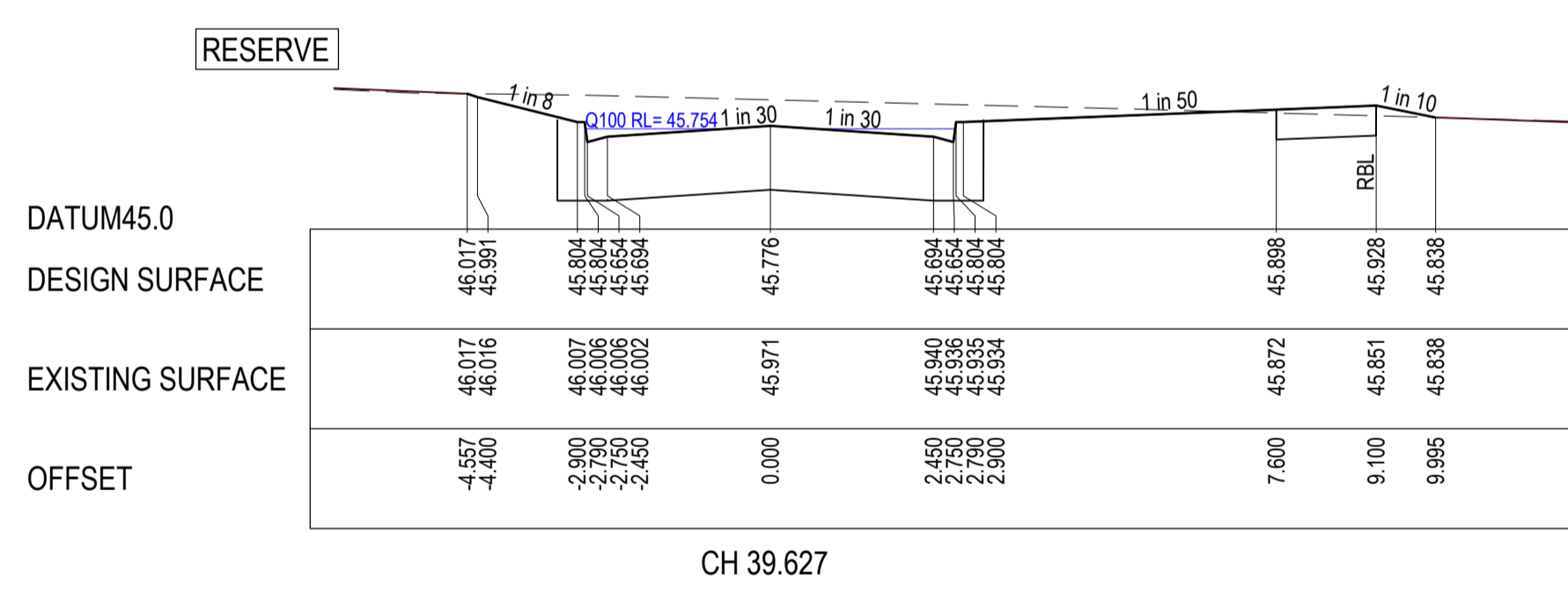
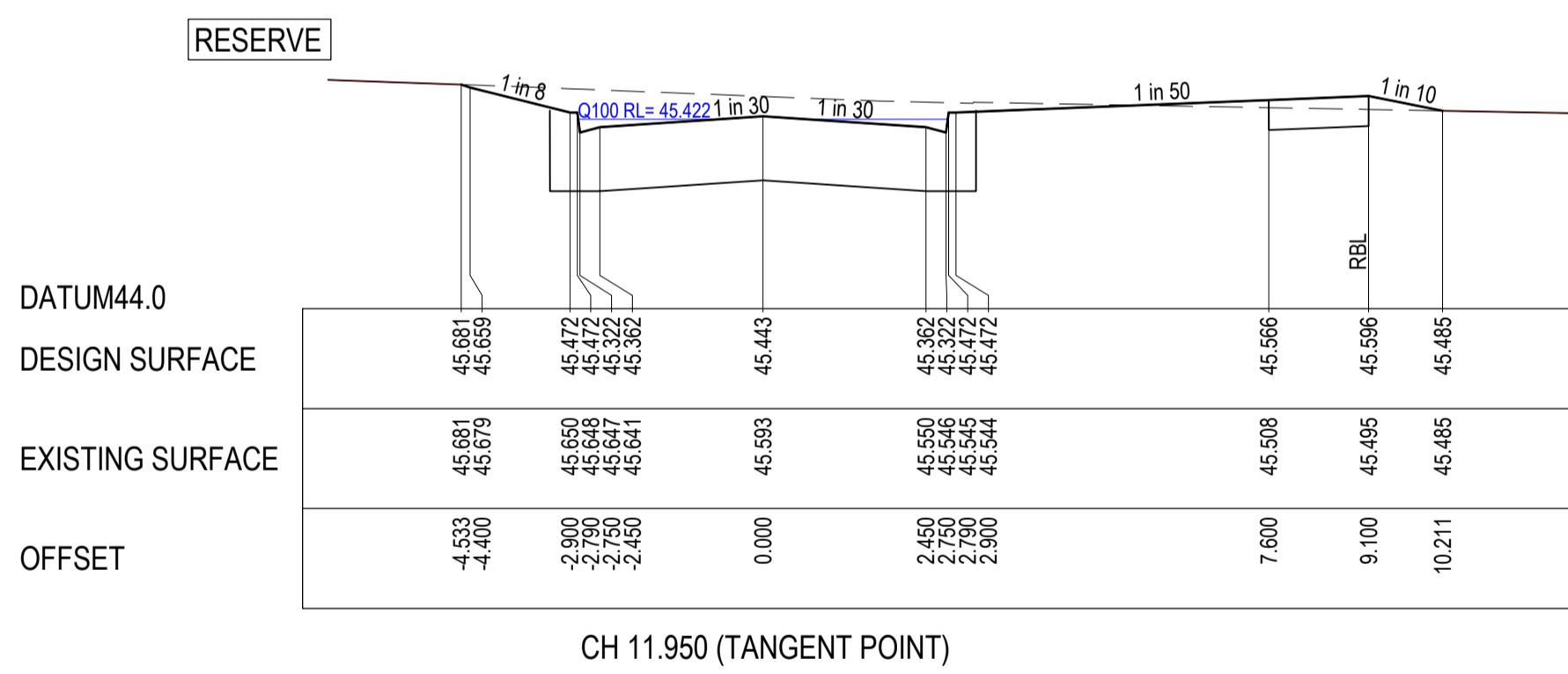
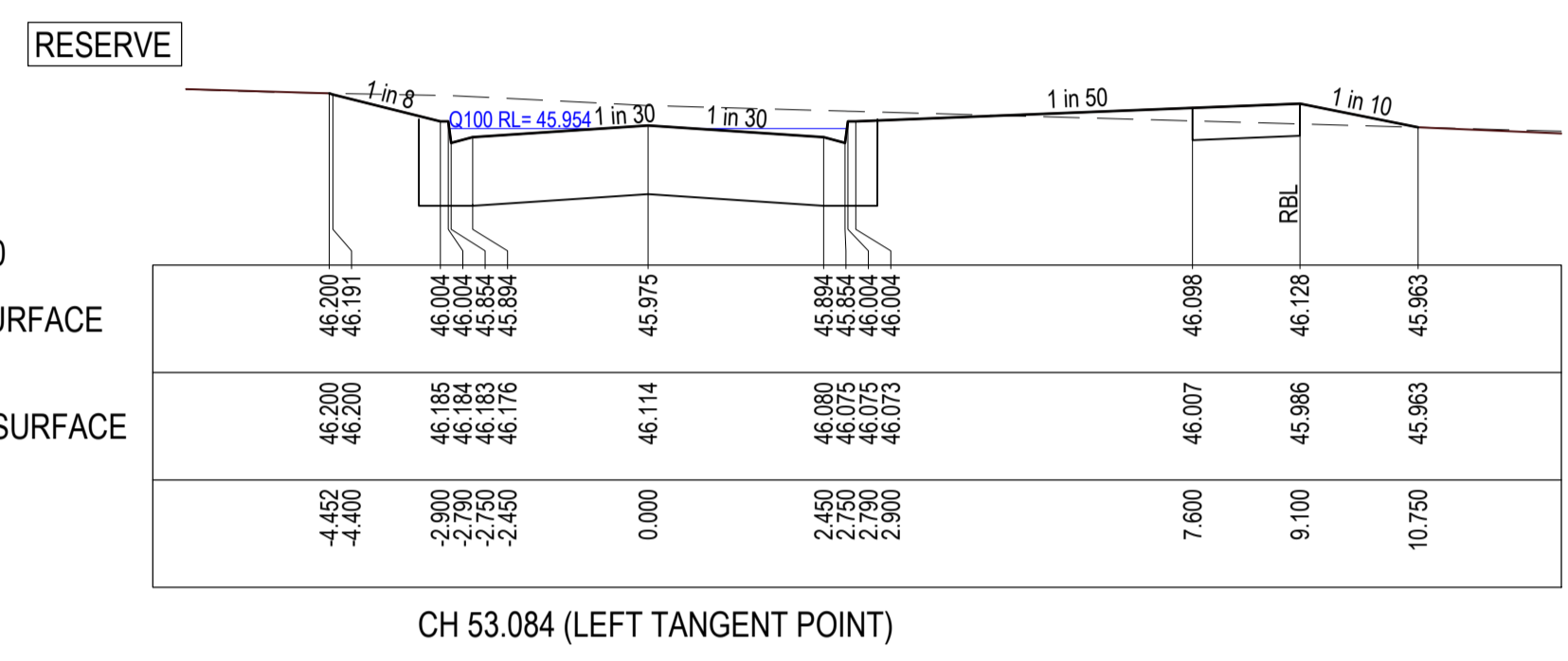
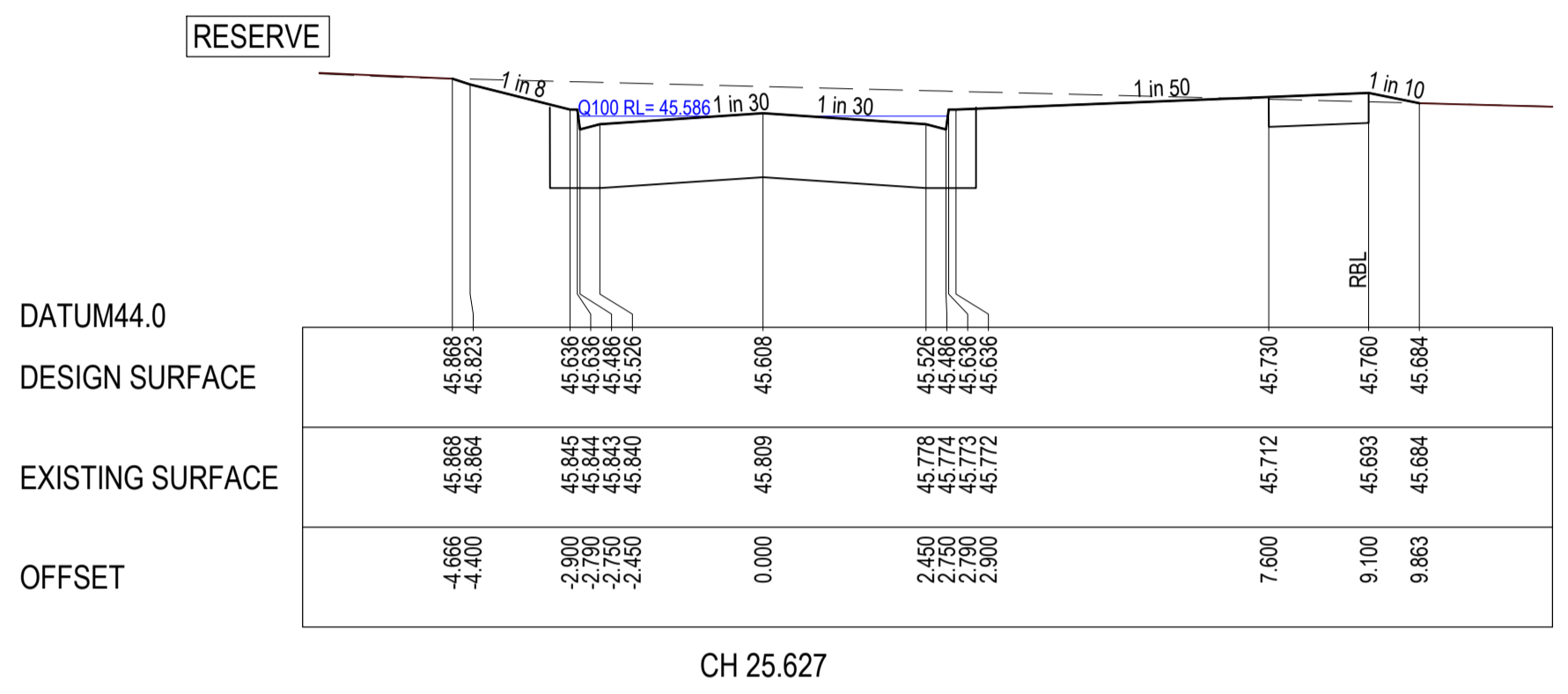
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**ARMSTRONG - STAGE 47B
 ROAD CROSS SECTIONS - 4
 NECTAR DRIVE**

STATUS

**ISSUED FOR
 CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.T.ROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R503	0



P:\2018\18016 - VILAWOOD ARMSTRONG\18016-47B\18016-47B - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	02/12/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT

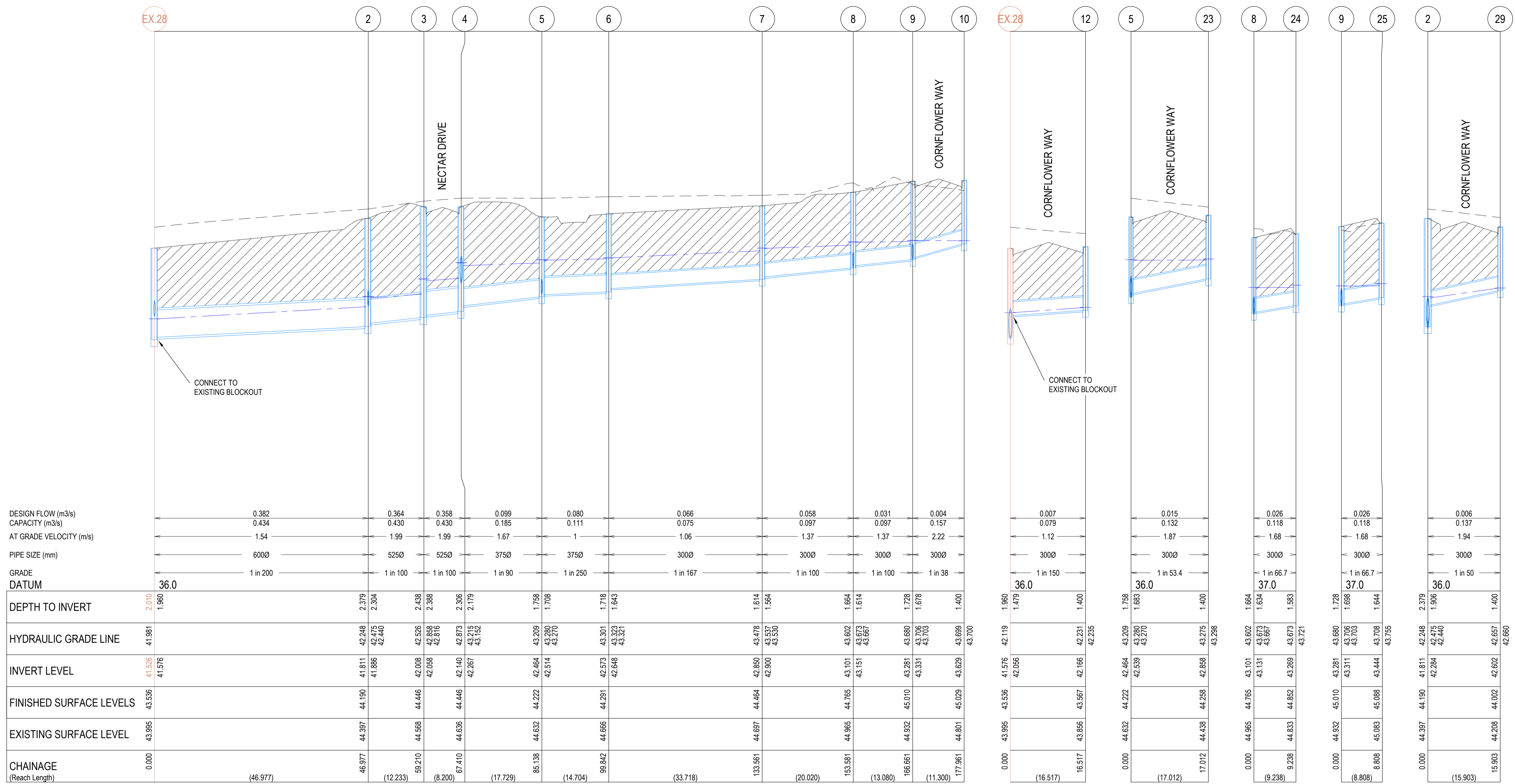
DRAWING TITLE

**ARMSTRONG - STAGE 47B
ROAD CROSS SECTIONS - 5
JOURNEY CRESCENT**

STATUS

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R504	0

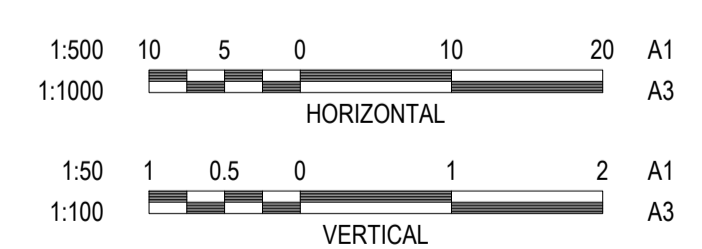


NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
 - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ).
- ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
- WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
- ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILISED SAND, 300mm ABOVE TOP OF PIPE.

REINFORCED CONCRETE PIPES

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989. LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST.



LEGEND

	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

WARNING
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www.1100.com.au

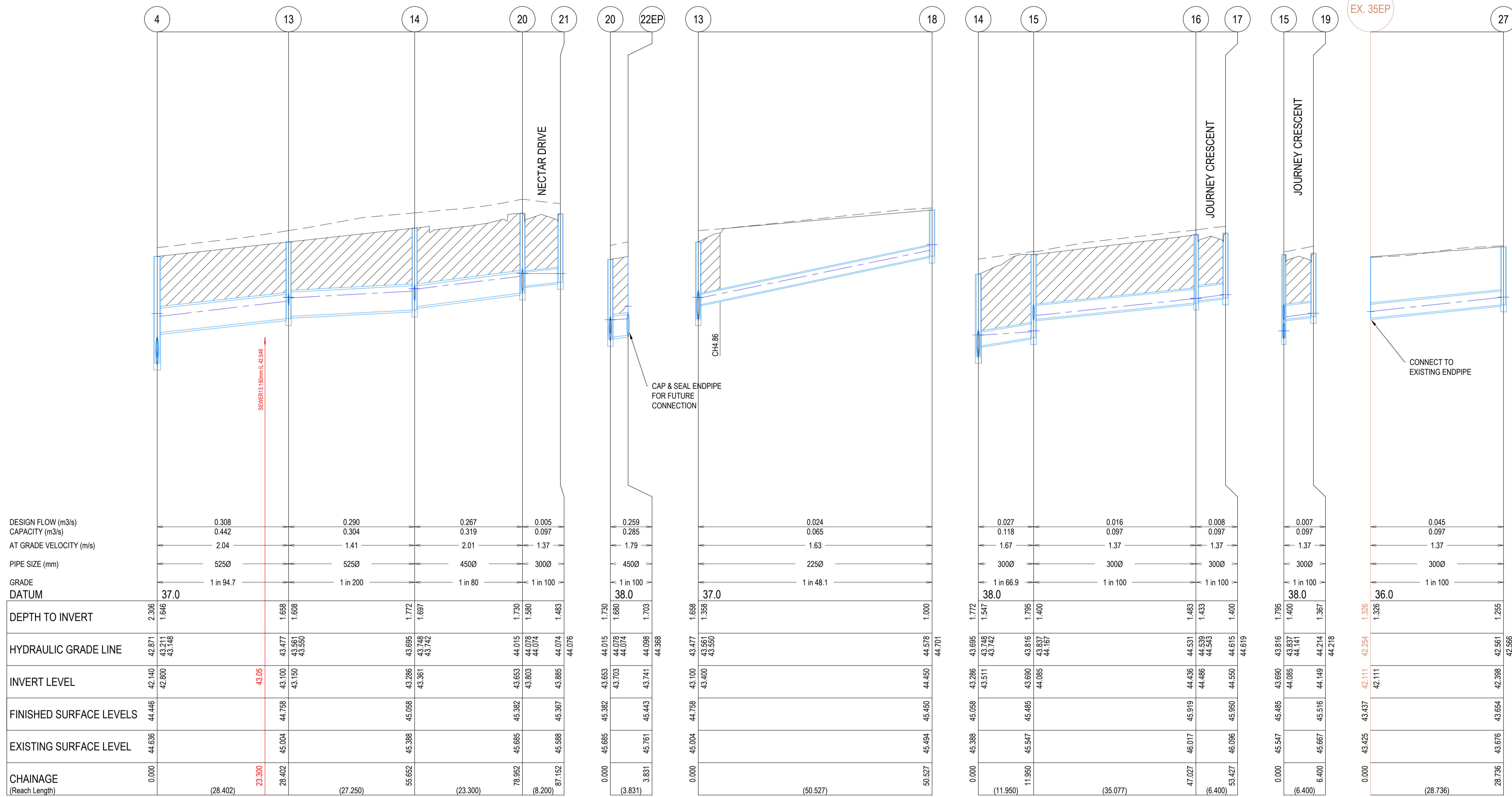
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
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C	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



ARMSTRONG - STAGE 47B
DRAINAGE LONG SECTIONS - 1

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R600	0



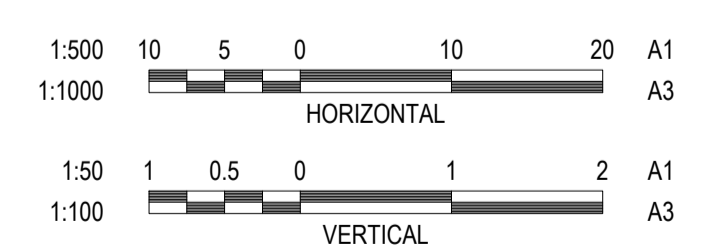
DESIGN FLOW (m³/s)	CAPACITY (m³/s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	GRADE DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE (Reach Length)
0.308	0.442	2.04	5250	1 in 94.7	2.306 1.646	42.871 43.211 43.148	42.140 42.800	44.446	44.636	0.000
0.290	0.304	1.41	5250	1 in 200	1.698	43.477 43.561 43.350	43.100 43.150	44.788	45.004	28.402
0.267	0.319	2.01	4500	1 in 80	1.772	43.695 43.748 43.742	43.286 43.361	45.058	45.388	55.662
0.005	0.097	1.37	3000	1 in 100	1.730	44.015 44.074 44.074	44.015 44.074	45.392	45.588	78.952
0.259	0.285	1.79	4500	1 in 100	1.703	44.098 44.368	44.098 44.368	45.443	45.761	87.152
0.024	0.065	1.63	2250	1 in 48.1	1.358	43.477 43.561 43.550	43.100 43.400	44.788	45.004	50.527
0.027	0.118	1.67	3000	1 in 66.9	1.772	43.748 43.742	43.511 43.511	45.058	45.547	11.950
0.016	0.097	1.37	3000	1 in 100	1.547	43.816 43.837 44.167	43.690 44.085	45.485	45.816	11.950
0.008	0.097	1.37	3000	1 in 100	1.483	44.531 44.523 44.615	44.436 44.486	46.017	46.096	47.027
0.007	0.097	1.37	3000	1 in 100	1.400	44.615 44.619	44.550	45.950	46.096	53.427
0.045	0.097	1.37	3000	1 in 100	1.255	43.816 44.141 44.214	43.690 44.085	45.485	45.516	6.400
0.007	0.097	1.37	3000	1 in 100	1.367	44.214 44.218	44.149	45.516	45.516	6.400
0.045	0.097	1.37	3000	1 in 100	1.255	42.254 42.111 42.111	42.111	43.437	43.676	28.736
0.007	0.097	1.37	3000	1 in 100	1.255	42.561 42.566	42.398	43.654	43.676	28.736

NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
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LEGEND

	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

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www.1100.com.au

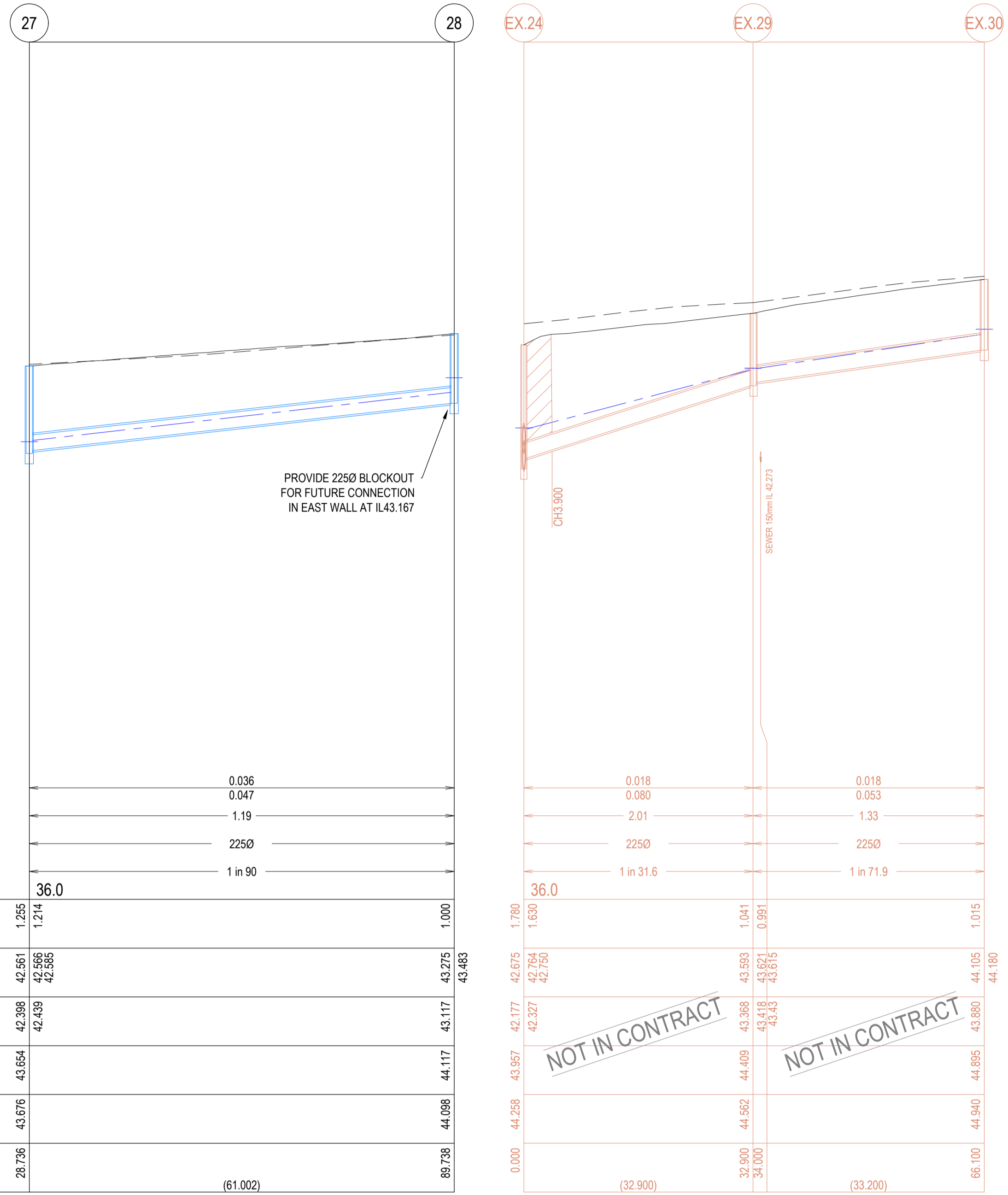
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



ARMSTRONG - STAGE 47B
DRAINAGE LONG SECTIONS - 2

ISSUED FOR CONSTRUCTION

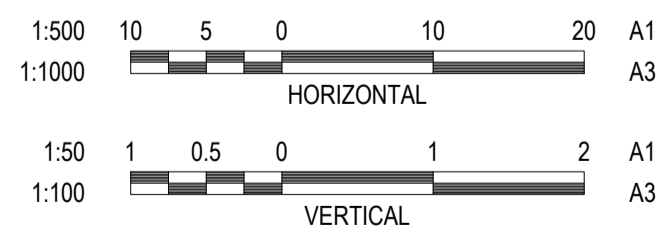
SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R601	0



- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
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NOTE:
 IN ACCORDANCE WITH C.O.G.G DESIGN NOTE 8 (DATED JANUARY 2020) EXISTING DRAINAGE LOCATED WITHIN PROPOSED STAGE WORKS ARE REQUIRED TO BE RE-CCTVD TO CONFIRM NO CONSEQUENTIAL DAMAGE HAS OCCURRED.



LEGEND

	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

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DIAL 1100 BEFORE YOU DIG
www.1100.com.au

P:201818016 - VILLAWOOD ARMSTRONG STAGE 47B DRAINAGE LONG SECTIONS - 300mm ABOVE TOP OF PIPE

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



ARMSTRONG - STAGE 47B
DRAINAGE LONG SECTIONS - 3

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R602	0

PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIA. (mm)	INVERT RL (m)	DIA. (mm)	INVERT RL (m)				
EX.28	EXISTING PIT	900	900	600	41.576	600.000	41.526	43.536	1.414		CONNECT TO EXISTING BLOCKOUT
				300	42.057			43.536	1.96		CONNECT TO EXISTING PIT AND MAKE GOOD CONNECTION
2	JUNCTION PIT	900	900	525	41.886	600.000	41.811	44.190	2.379	IDM SD420 & SD410	HAUNCHED TO 600 x 900 COVER
				300	42.284			44.190	2.379		
3	SIDE ENTRY PIT	900	900	525	42.058	525.000	42.008	44.446	2.438	IDM SD430 & SD410	HAUNCHED TO 600 x 900 COVER
4	SIDE ENTRY PIT	900	900	375	42.267	525.000	42.140	44.446	2.306	IDM SD430 & SD410	HAUNCHED TO 600 x 900 COVER
				525	42.800			44.446	2.306		
5	SIDE ENTRY PIT	600	900	375	42.514	375.000	42.464	44.222	1.758	IDM SD430	
				300	42.539			44.222	1.758		
6	SIDE ENTRY PIT	600	900	300	42.648	375.000	42.573	44.291	1.718	IDM SD430	
7	SIDE ENTRY PIT	600	900	300	42.900	300.000	42.850	44.464	1.613	IDM SD430	
8	SIDE ENTRY PIT	600	900	300	43.151	300.000	43.101	44.765	1.664	IDM SD430	
				300	43.131			44.765	1.664		
9	SIDE ENTRY PIT	600	900	300	43.331	300.000	43.281	45.01	1.728	IDM SD430	
				300	43.311			45.010	1.728		
10	SIDE ENTRY PIT	600	900			300.000	43.629	45.010	1.381	IDM SD430	
12	SIDE ENTRY PIT	600	900			300.000	42.167	43.567	1.4	IDM SD430	
13	SIDE ENTRY PIT	900	900	225	43.400			44.758	1.658	IDM SD430	
				525	43.150	525.000	43.100	44.758	1.658		
14	SIDE ENTRY PIT	900	900	300	43.511			45.058	1.772	IDM SD430	
				450	43.361	525.000	43.286	45.058	1.772		
15	SIDE ENTRY PIT	600	900	300	44.085	300.000	43.690	45.485	1.795	IDM SD430	
				300	44.085			45.485	1.795		
16	SIDE ENTRY PIT	600	900	300	44.486	300.000	44.436	45.919	1.483	IDM SD430	
17	SIDE ENTRY PIT	600	900			300.000	44.550	45.950	1.4	IDM SD430	
18	JUNCTION PIT	600	900			225.000	44.450	45.450	1	IDM SD425	
19	SIDE ENTRY PIT	600	900			300.000	44.149	45.516	1.367	IDM SD430	
20	SIDE ENTRY PIT	900	900	300	43.803	450.000	43.653	45.382	1.73	IDM SD430	
				450	43.703			45.382	1.73		
21	SIDE ENTRY PIT	600	900			300.000	43.885	45.367	1.483	IDM SD430	
22EP	ENDPIPE			450	43.741			45.443	1.703		CAP & SEAL ENDPIPE FOR FUTURE CONNECTION
23	SIDE ENTRY PIT	600	900			300.000	42.858	44.258	1.4	IDM SD430	
24	GRATED PIT	600	900			300.000	43.269	44.852	1.583	IDM SD455	
25	GRATED PIT	600	900			300.000	43.444	45.088	1.644	IDM SD455	
EX.35EP	EXISTING ENDPIPE			300	42.111			43.451	1.34		CONNECT TO EXISTING ENDPIPE
27	JUNCTION PIT	600	900	225	42.439	300.000	42.398	43.654	1.256	IDM SD425	
28	JUNCTION PIT	600	900	FUT. 225	43.167	225.000	43.117	44.117	1	IDM SD425	PROVIDE 225Ø BLOCKOUT FOR FUTURE CONNECTION IN EAST WALL AT IL43.167
29	SIDE ENTRY PIT	600	900			300.000	42.602	44.002	1.4	IDM SD430	

NOTE:
PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

P:\2018\18016 - VILAWOOD ARMSTRONG\18016\18016_47B\18016_47B - DRAINAGE LOWS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT



Communities Designed for Living

PROJECT



Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

DRAWING TITLE



ARMSTRONG - STAGE 47B
DRAINAGE PIT SCHEDULE

STATUS

ISSUED FOR CONSTRUCTION

SCALE AT A1

AS SHOWN

PROJECT ENGINEER: M.TROUNCE

DRAWN: I.HOGAN

PROJECT MANAGER: T.PALIOS

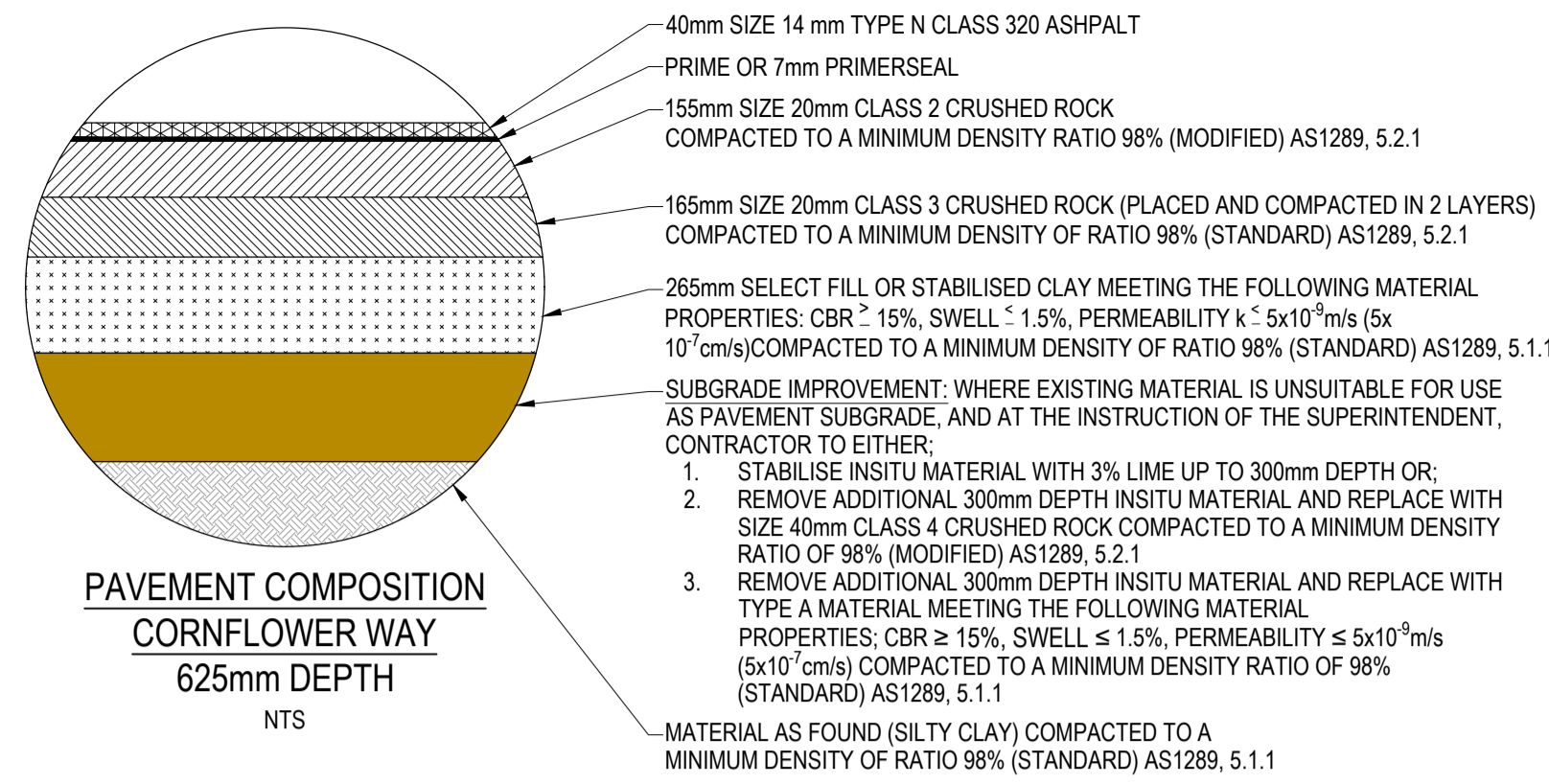
DESIGNED: I.HOGAN

DATE FIRST ISSUE: NOVEMBER 2020

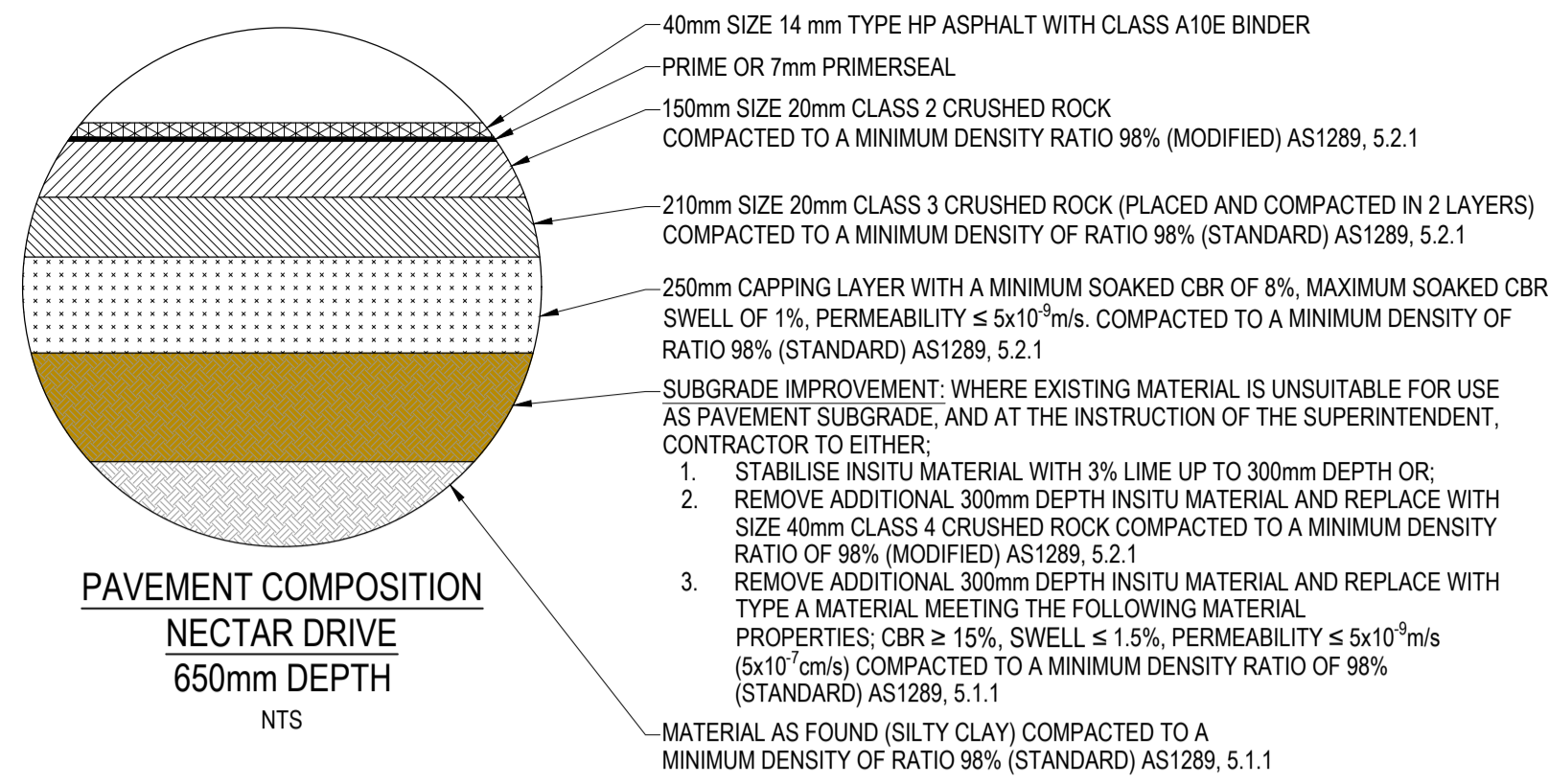
PROJECT No. 180016.47B

DRAWING No. R603

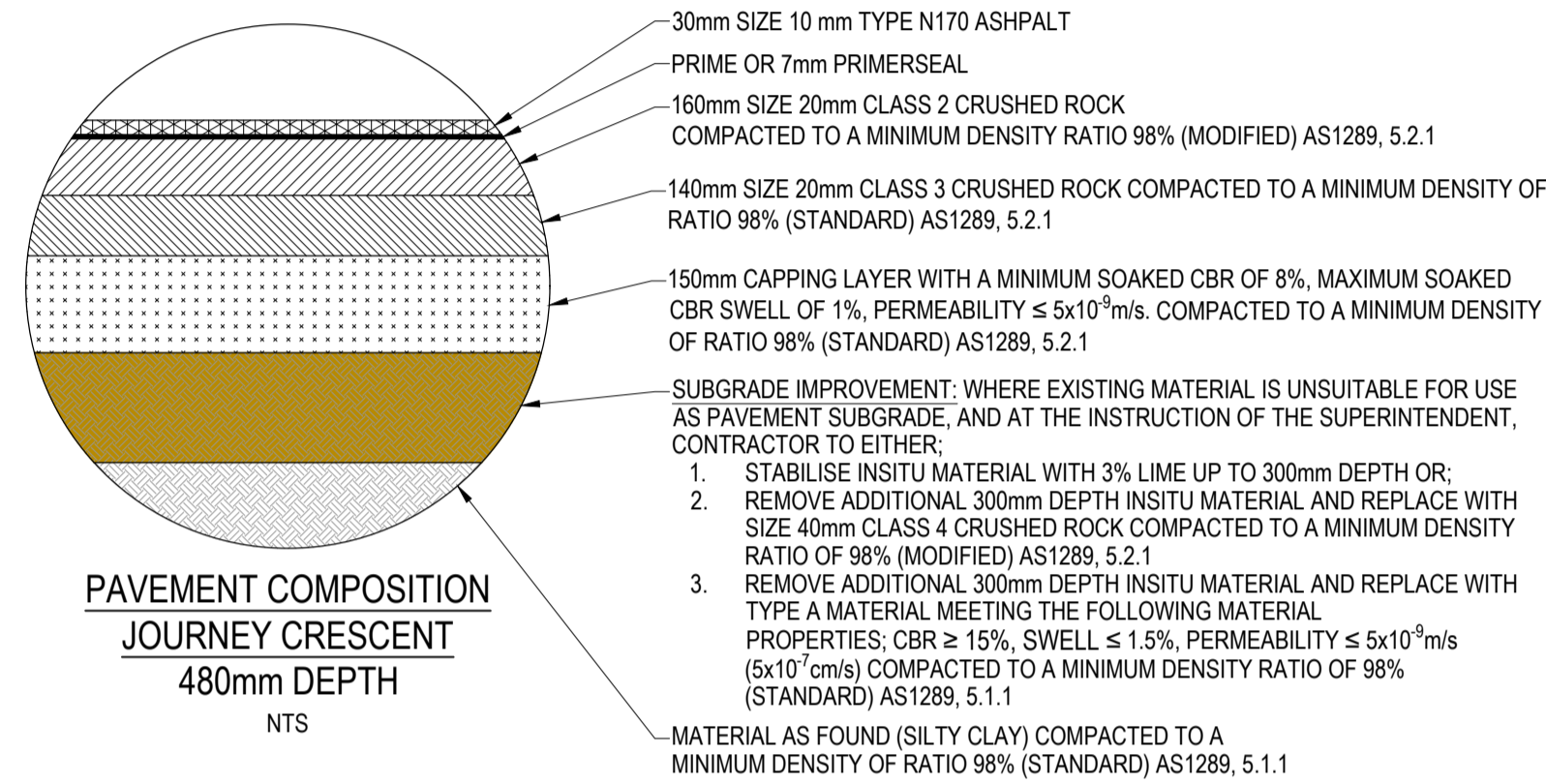
REVISION 0



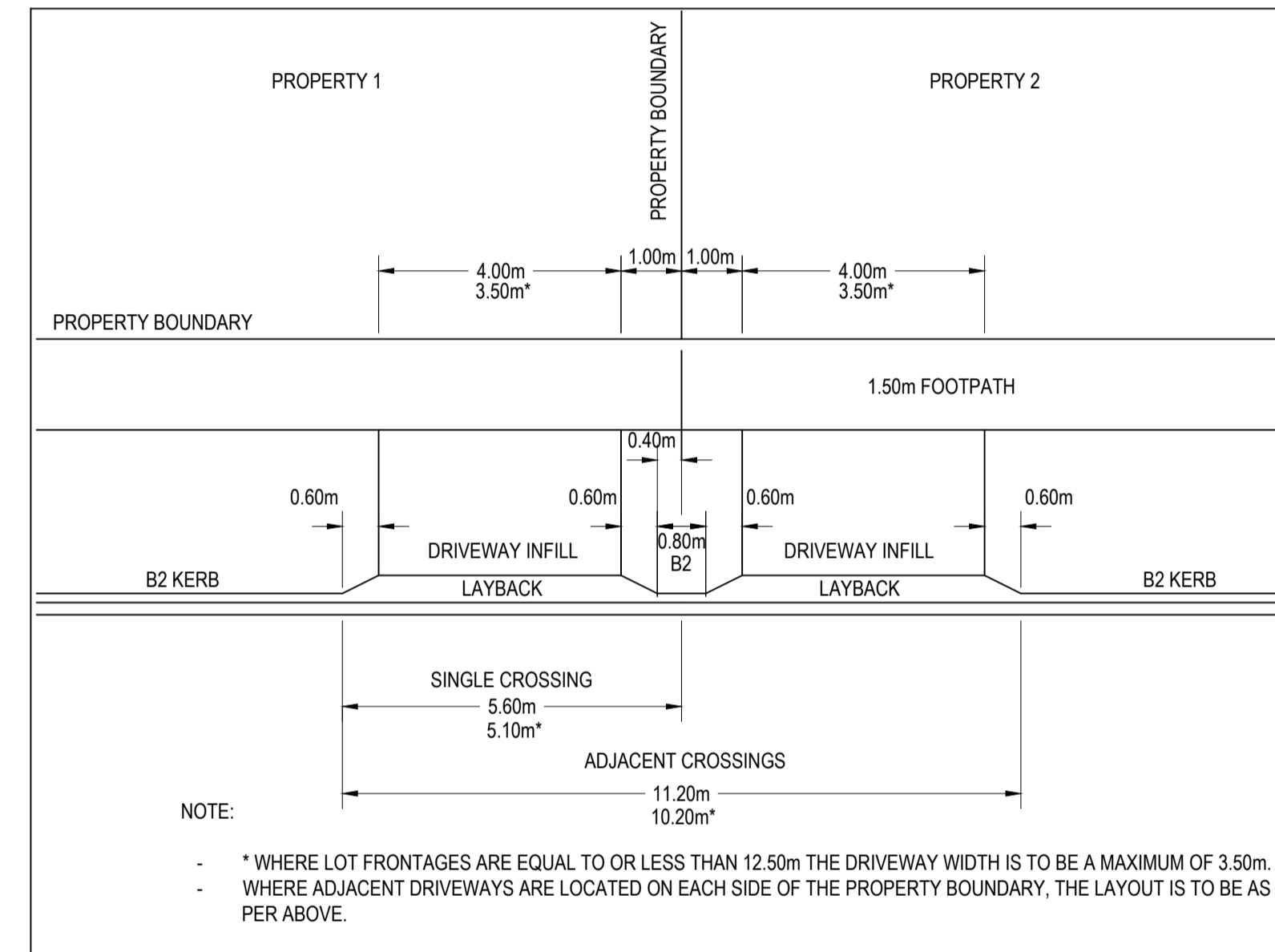
NOTE:
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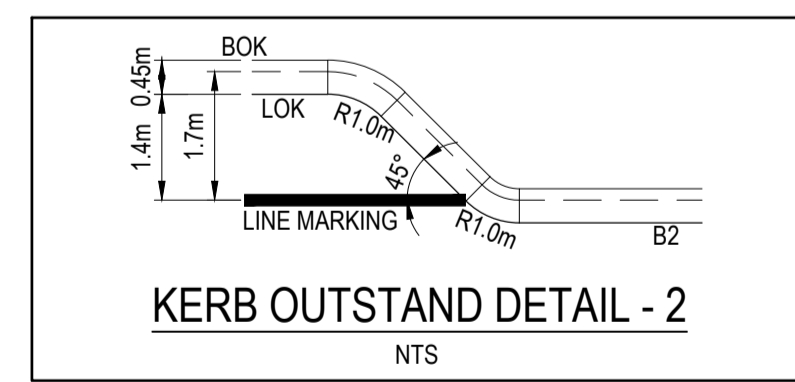
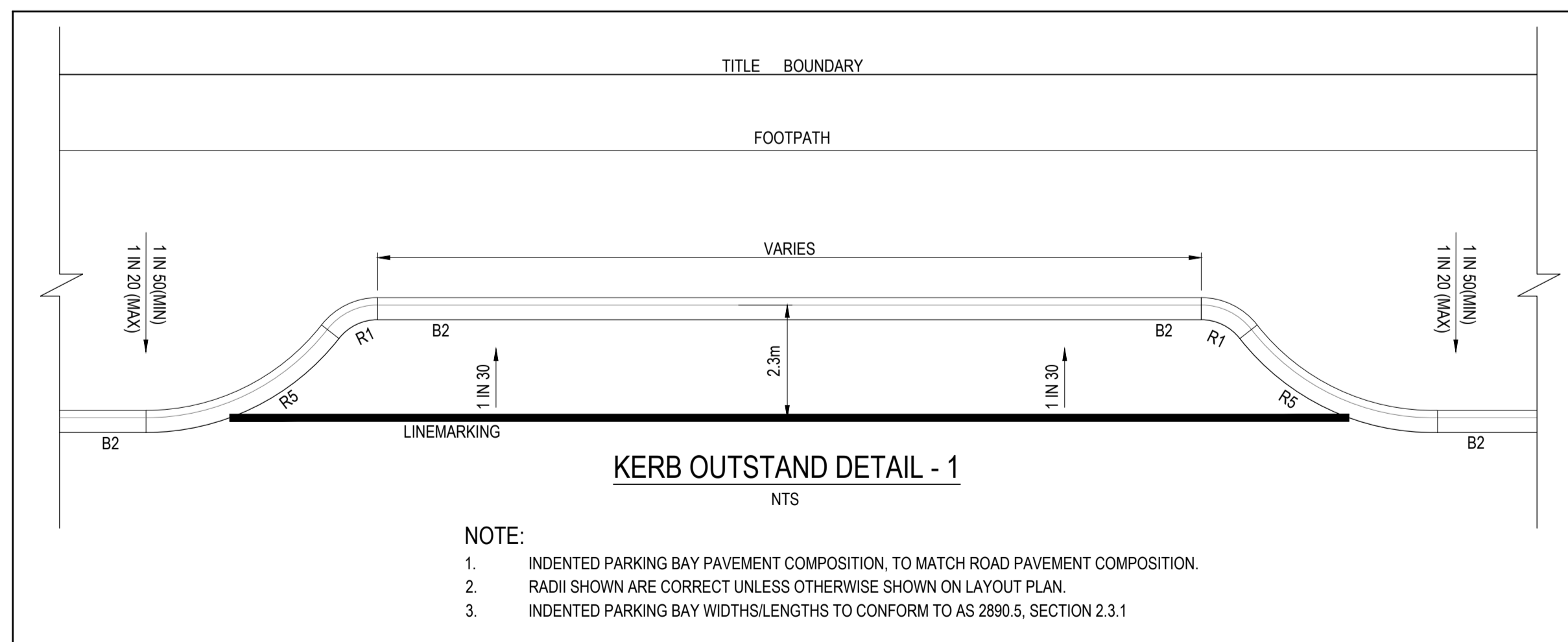
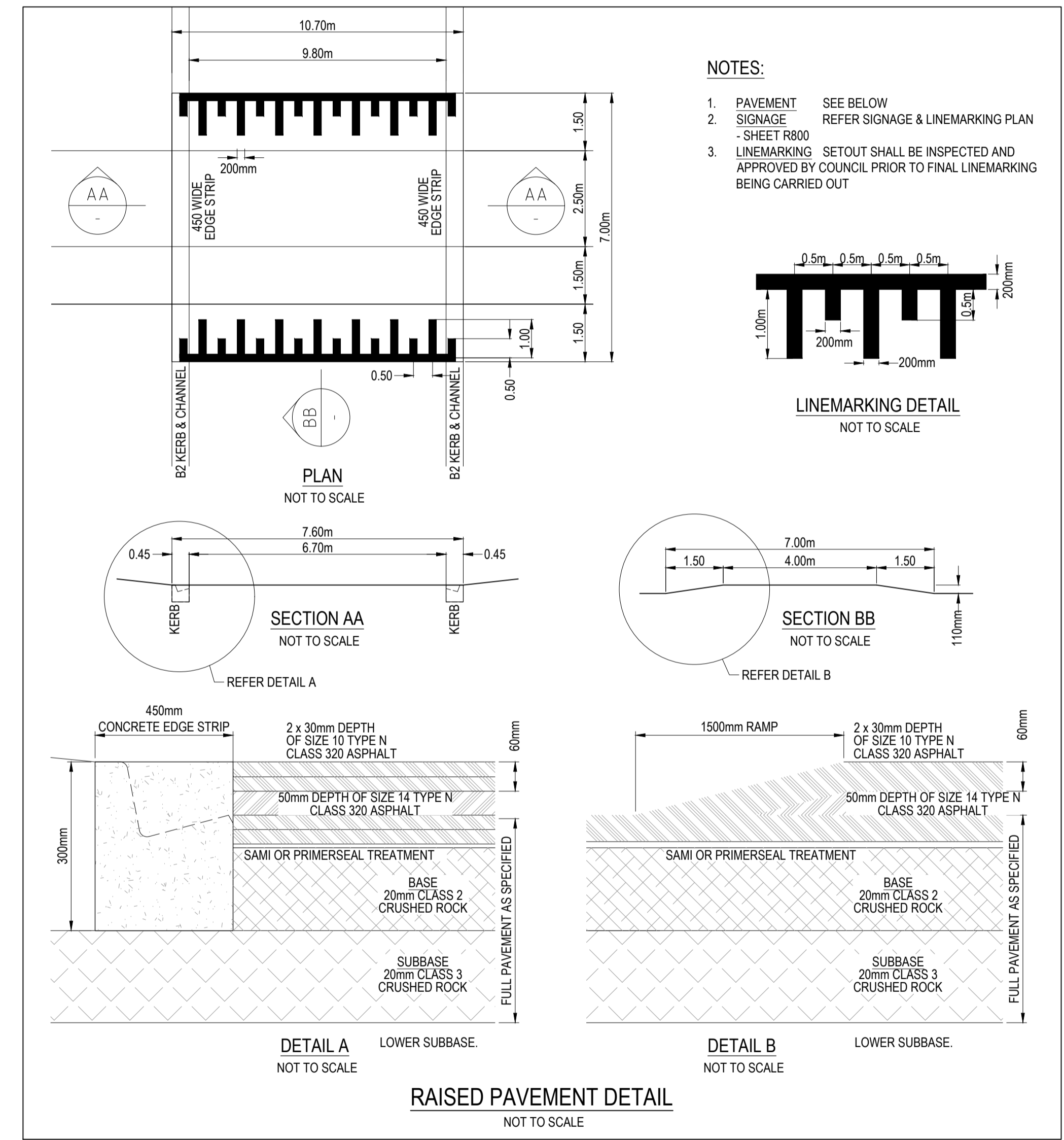
NOTE:
DETAIL PROVIDED IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS DATED MARCH 2020.



NOTE:
DETAIL PROVIDED IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS DATED MARCH 2020.



WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



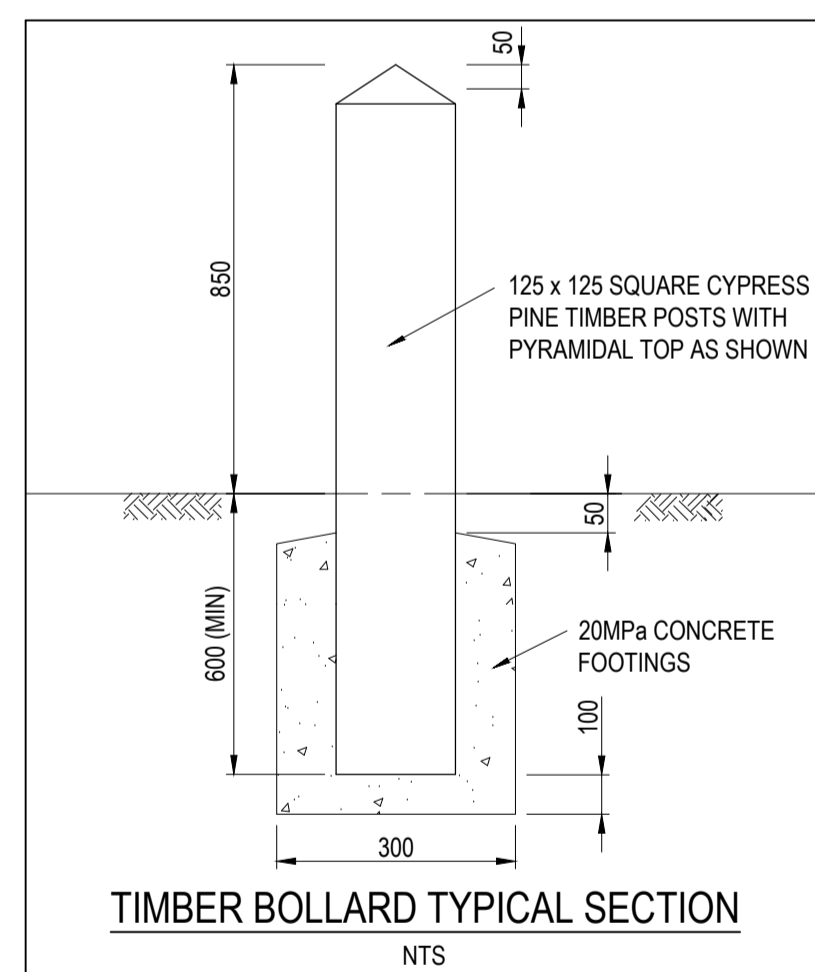
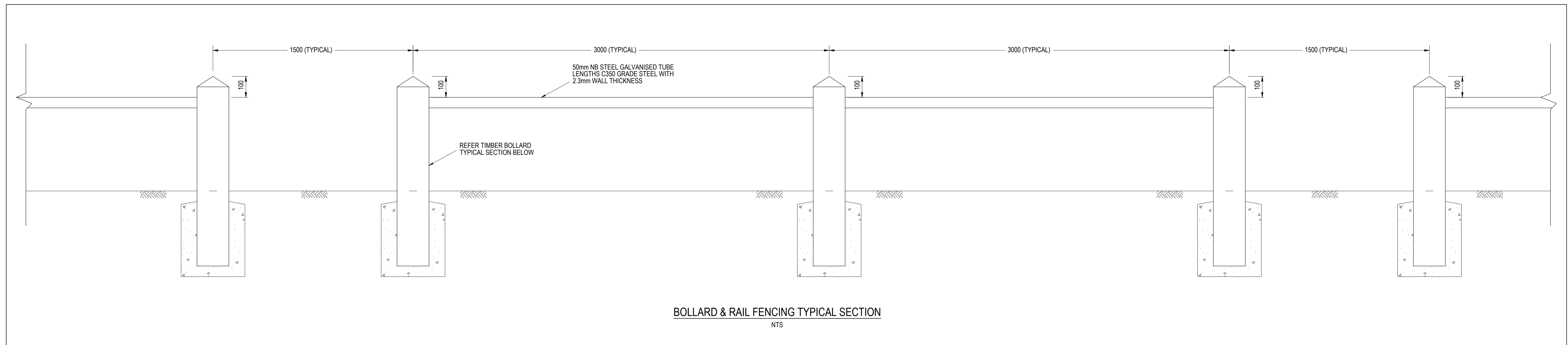
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



DRAWING TITLE
ARMSTRONG - STAGE 47B TYPICAL DETAILS - 1

STATUS
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R700	0



WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

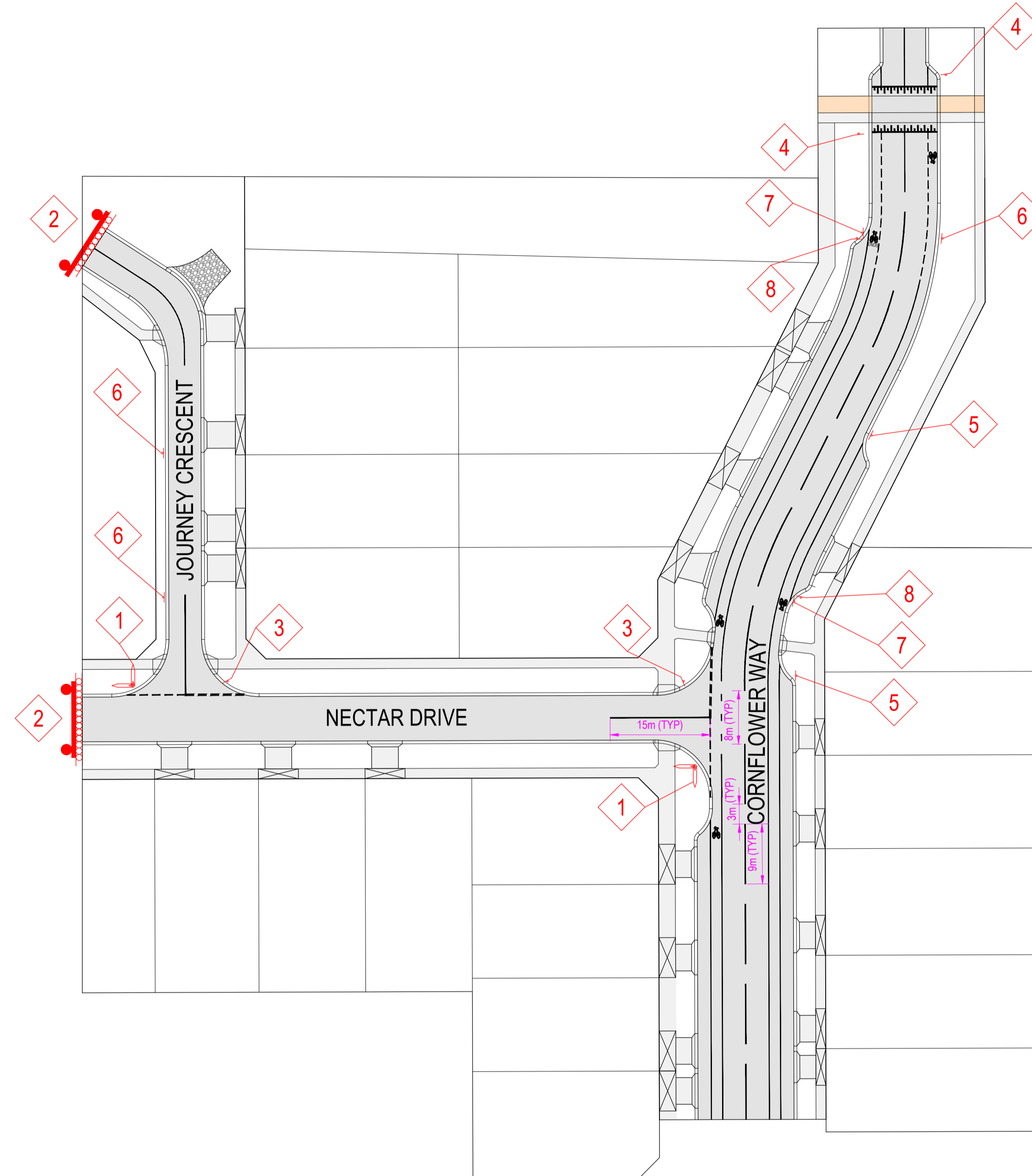
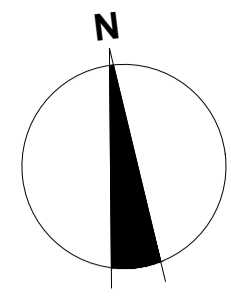
DRAWING TITLE

ARMSTRONG - STAGE 47B
TYPICAL DETAILS - 2

STATUS

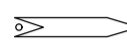
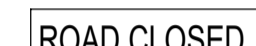



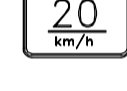
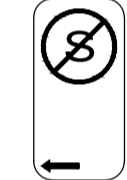
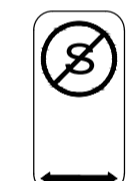
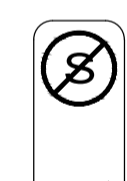

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R701	0



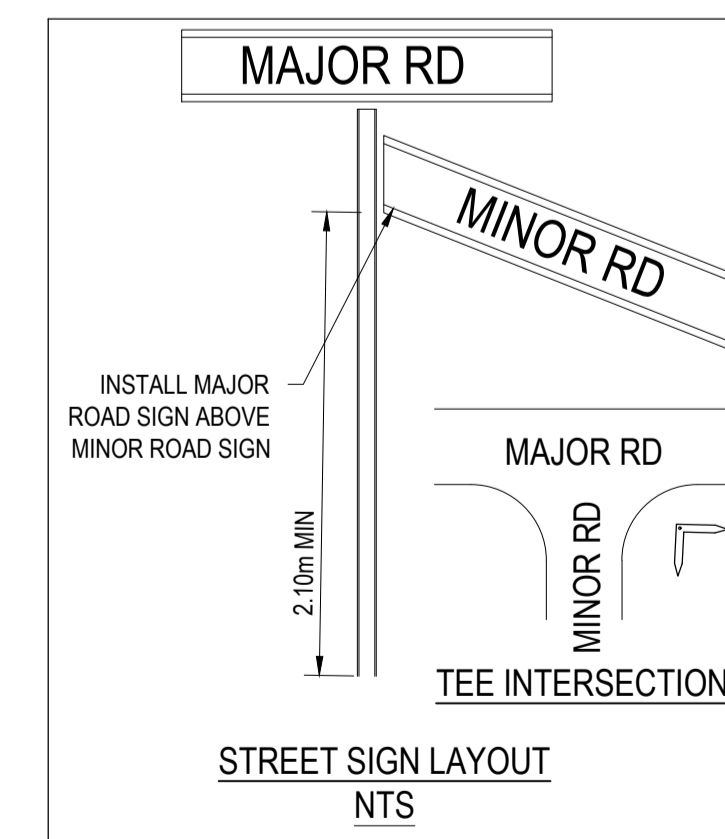
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGN SCHEDULE

SIGN	REF	QUANTITY
	1	REFER BELOW
STREET SIGN		
	2	2 No.
T2-4A 		
D4-5		
	3	2 No.
R1-2		
	4	2 No.
W5-10A		
	20	
W8-2A		
	5	2 No.
R5-35L		
	6	3 No.
R5-35		
	7	2 No.
R5-35R		
	8	2 No.
D4-1-2a		

STREET SIGN SCHEDULE

CORNFLOWER WAY	1 No.
NECTAR DR	2 No.
JOURNEY CR	1 No.



LINEMARKING & SIGNAGE NOTES:

- ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.1 AND AS 1742.2, UNLESS SPECIFICALLY SHOWN OTHERWISE.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
- LINEMARKING SET OUT SHALL BE INSPECTED AND APPROVED BY COUNCIL BEFORE FINAL LINEMARKING IS CARRIED OUT.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

villawood properties
Communities Designed for Living

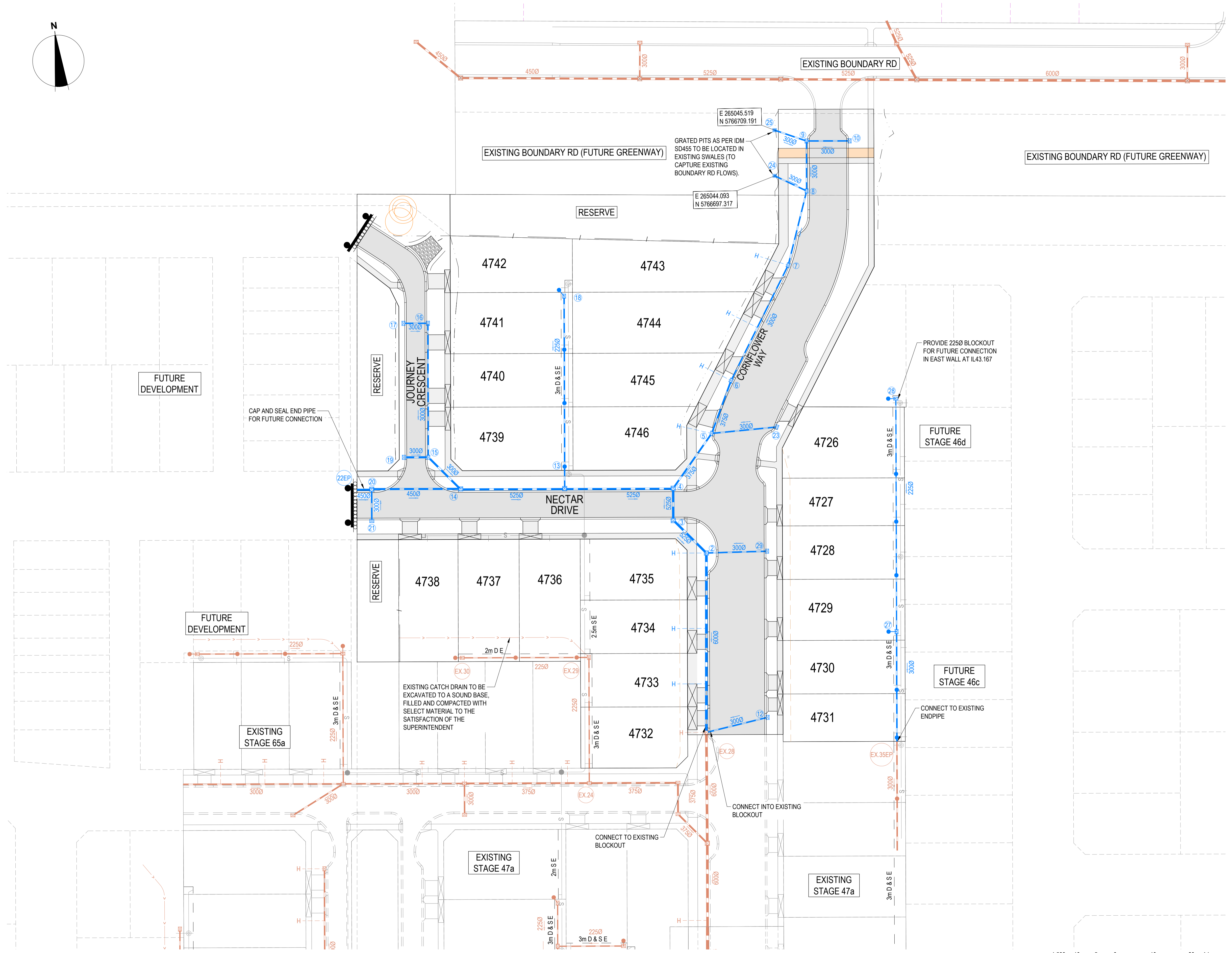
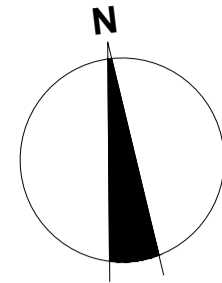
creo CONSULTANTS
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

ARMSTRONG
MT DUNEED

ARMSTRONG - STAGE 47B
SIGNAGE AND LINEMARKING PLAN

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R800	0



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

DRAWING TITLE

ARMSTRONG - STAGE 47B
DRAINAGE LAYOUT PLAN

STATUS

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R900	0