

ARMSTRONG

STAGE 46D

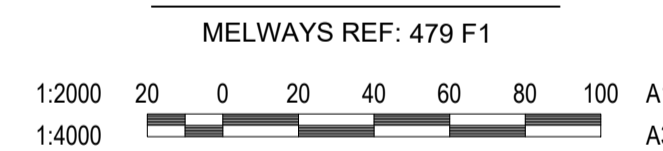
CITY OF GREATER GEELONG

GENERAL NOTES:

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND GREATER GEELONG CITY COUNCIL 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 SUPERVISING OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, 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 KERBS 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 SUMPS 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



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.

Drawing Index

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R800	SIGNAGE & LINEMARKING PLAN	1
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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 - VILLAWOOD ARMSTRONG\18016\18016_46D\CIVIL2 - DRAFTING\CAD\18016_46D - R100 - COVER SHEET.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	05/03/21	LOT 46114 ADDED & LOT NUMBERS REVISED	T.T.HOMAS	M.TROUNCE	T.PALIOS
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

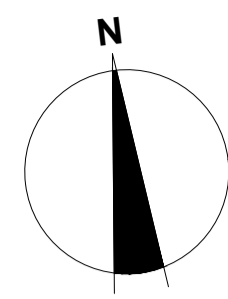
Communities Designed for Living

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

DRAWING TITLE
**ARMSTRONG - STAGE 46D
COVER SHEET**

STATUS
**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:2000 @ A1	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R100	1



CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL
**GREATER GEELONG CITY COUNCIL
 PLANNING ENVIRONMENT ACT 1987
 GREATER GEELONG PLANNING SCHEME**

Endorsed Plan
 Planning Permit No: PP-496-2012
 Sheet 2 of 12
 Approved By Daniel Cromberge
 Approved Date 26/04/2021

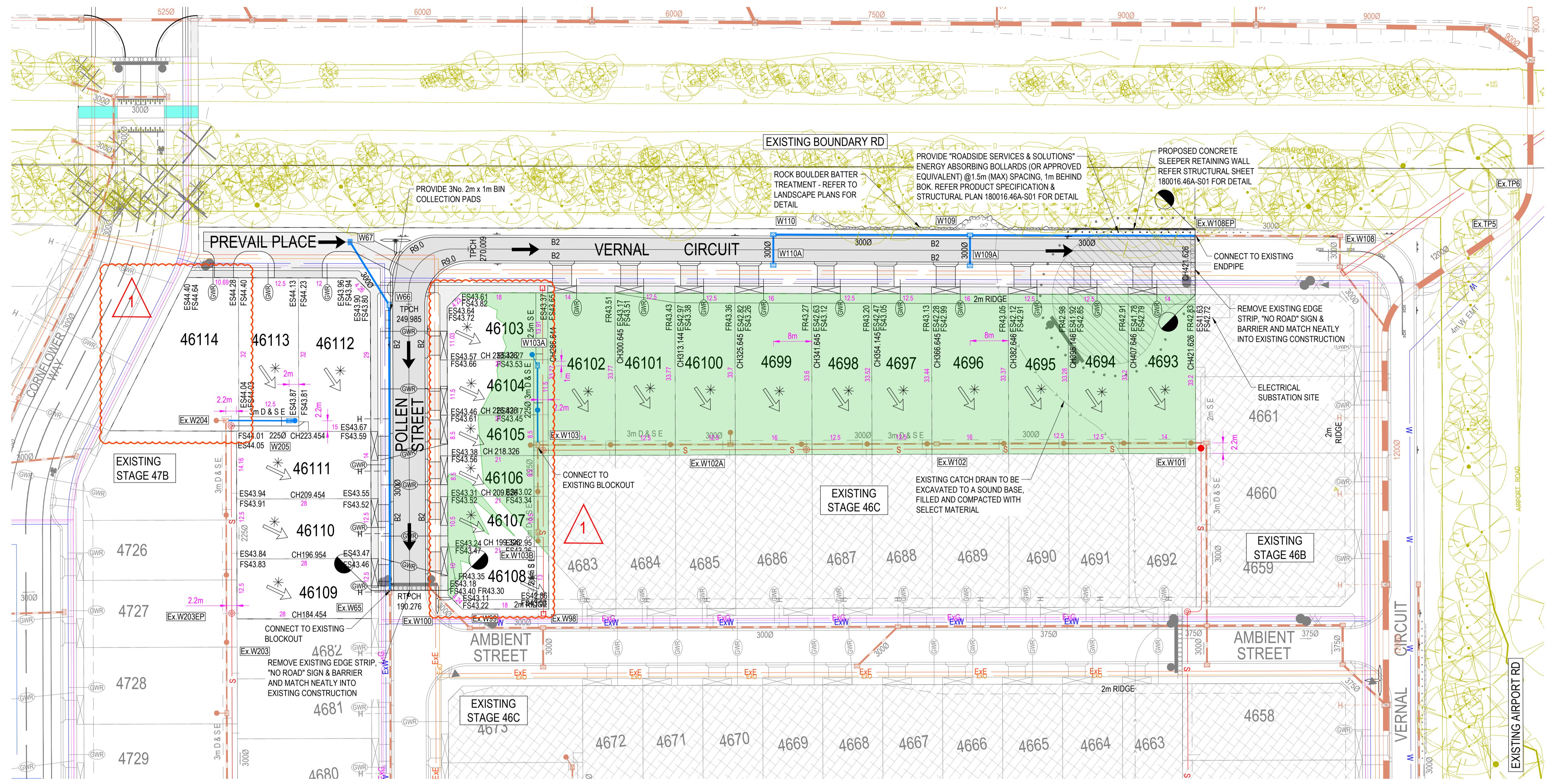
NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 14920

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TEL STRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RETAINING WALL
- BUILDING ENVELOPE
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN
- DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

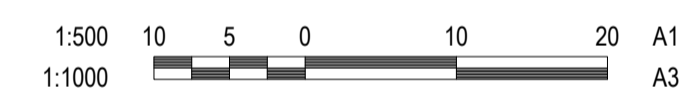
- NOTES:**
- ALL VEHICLE AND PRAM CROSSING LAYBACKS, TO BE MINIMUM OF 1.0m FROM PITS.
 - ALL PRAM CROSSINGS TO BE A MINIMUM 2.0m FROM VEHICLE CROSSINGS.
 - ALL PRAM CROSSINGS TO BE DDA COMPLIANT.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF LANDSCAPE WORKS.
 - THE USE OF DIRECTIONAL AND HAZARD TACTILE PAVERS MUST ACCORD WITH SECTION 2.3.1 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.
 - CHAINAGES 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.
 - CROSSOVERS FOR LOTS WITH FRONTAGES 12.5m OR LESS ARE TO BE MAX 3.5m WIDTH - REFER SHEET R700 FOR DETAILS.



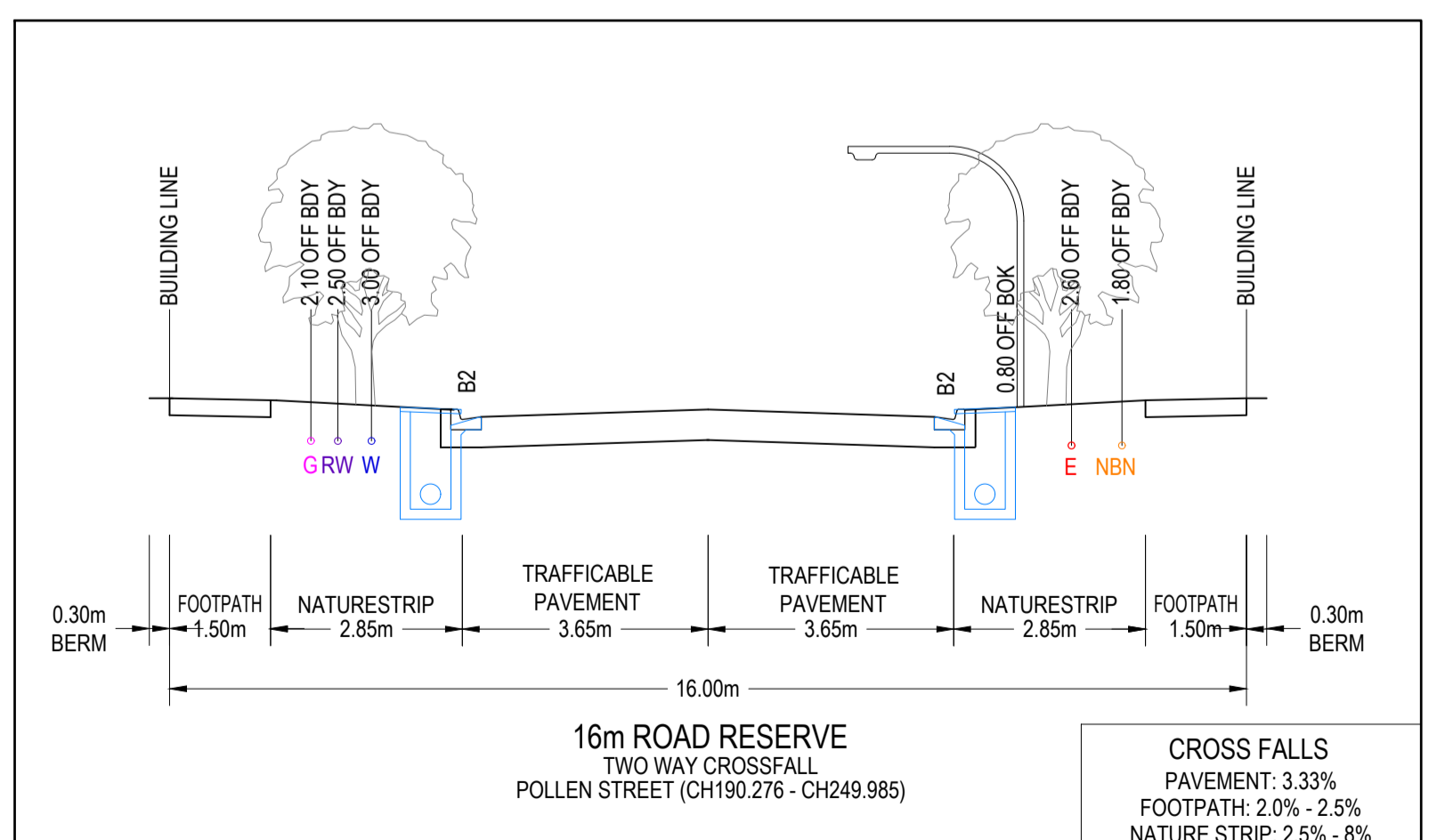
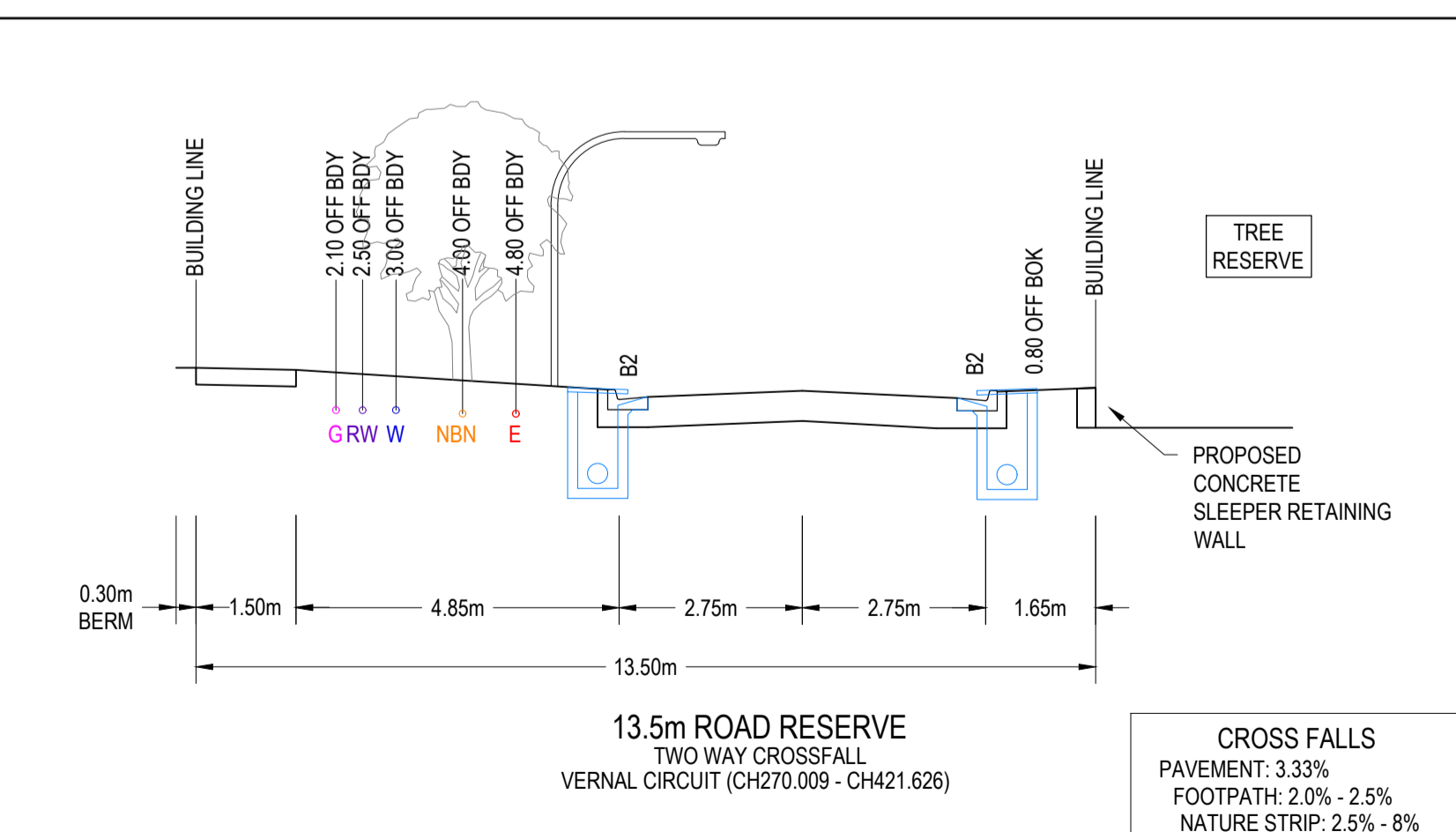
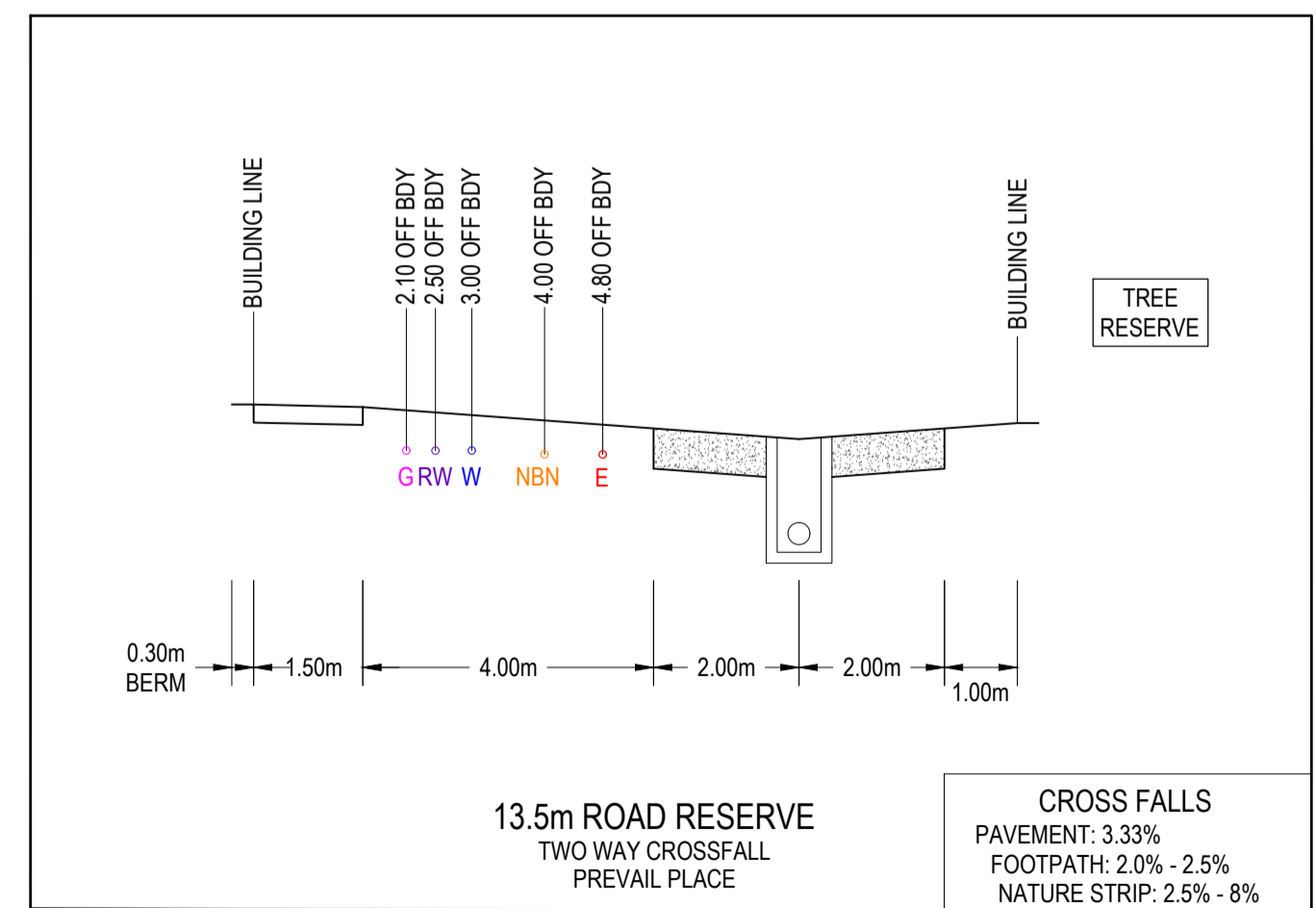
SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		POTABLE WATER		OPTIC FIBRE		ELECTRICITY		PUBLIC LIGHTING	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
POLLEN STREET (CH190.276 - CH249.985)	W	2.10	W	2.50	W	3.00	E	1.80	E	2.60	E	1.00*
VERNAL CIRCUIT (CH270.009 - CH421.626)	S	2.10	S	2.50	S	3.00	S	4.00	S	4.80	S	1.00*
PREVAIL PLACE	S	2.10	S	2.50	S	3.00	S	4.00	S	4.80	S	1.00*

* DENOTES OFFSET FROM BACK OF KERB.



WARNING
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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	04/03/21	LOTS 46103 TO 46108 DIMENSIONS & LOT 46114 ADDED	T.THOMAS	M.TROUNCE	T.PALIOS
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS



PROJECT: **ARMSTRONG - STAGE 46D**
 DRAWING TITLE: **LAYOUT PLAN & TYPICAL SECTIONS**

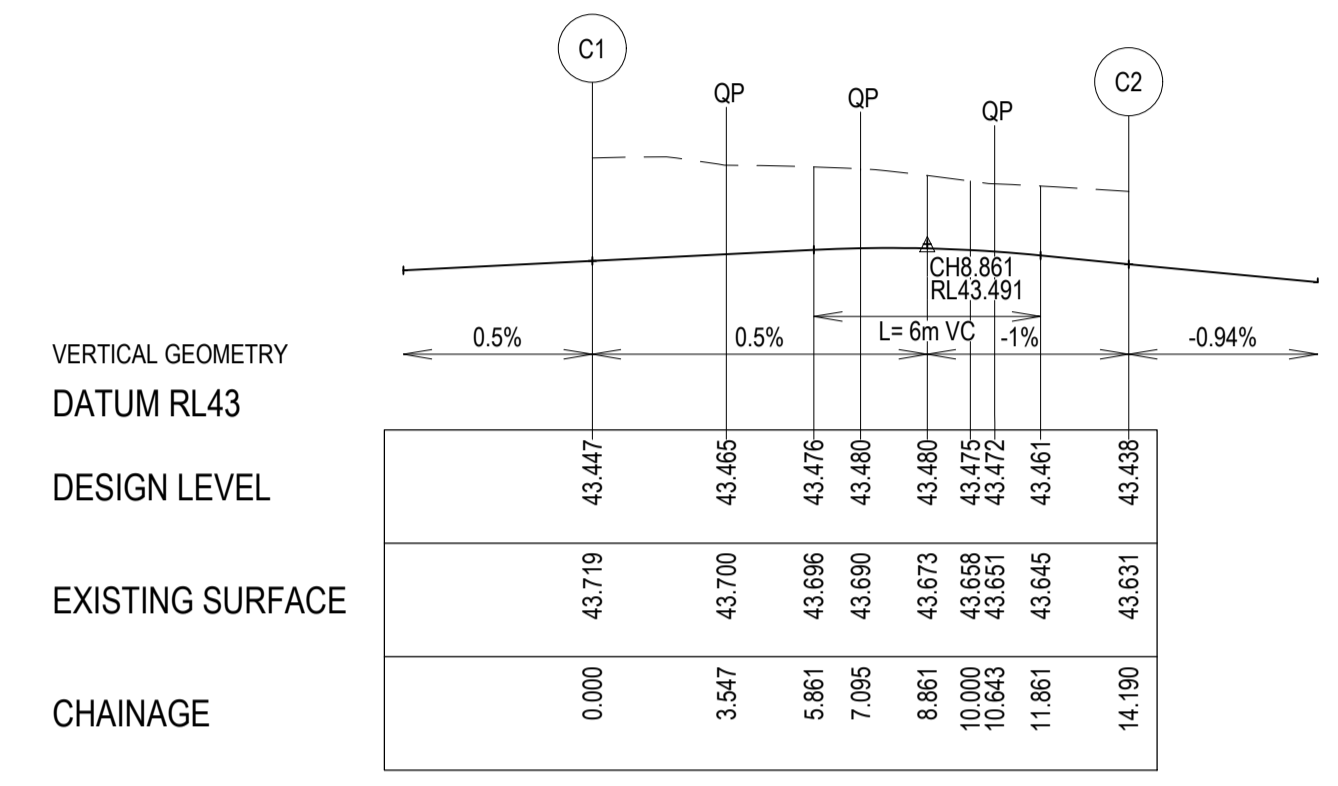
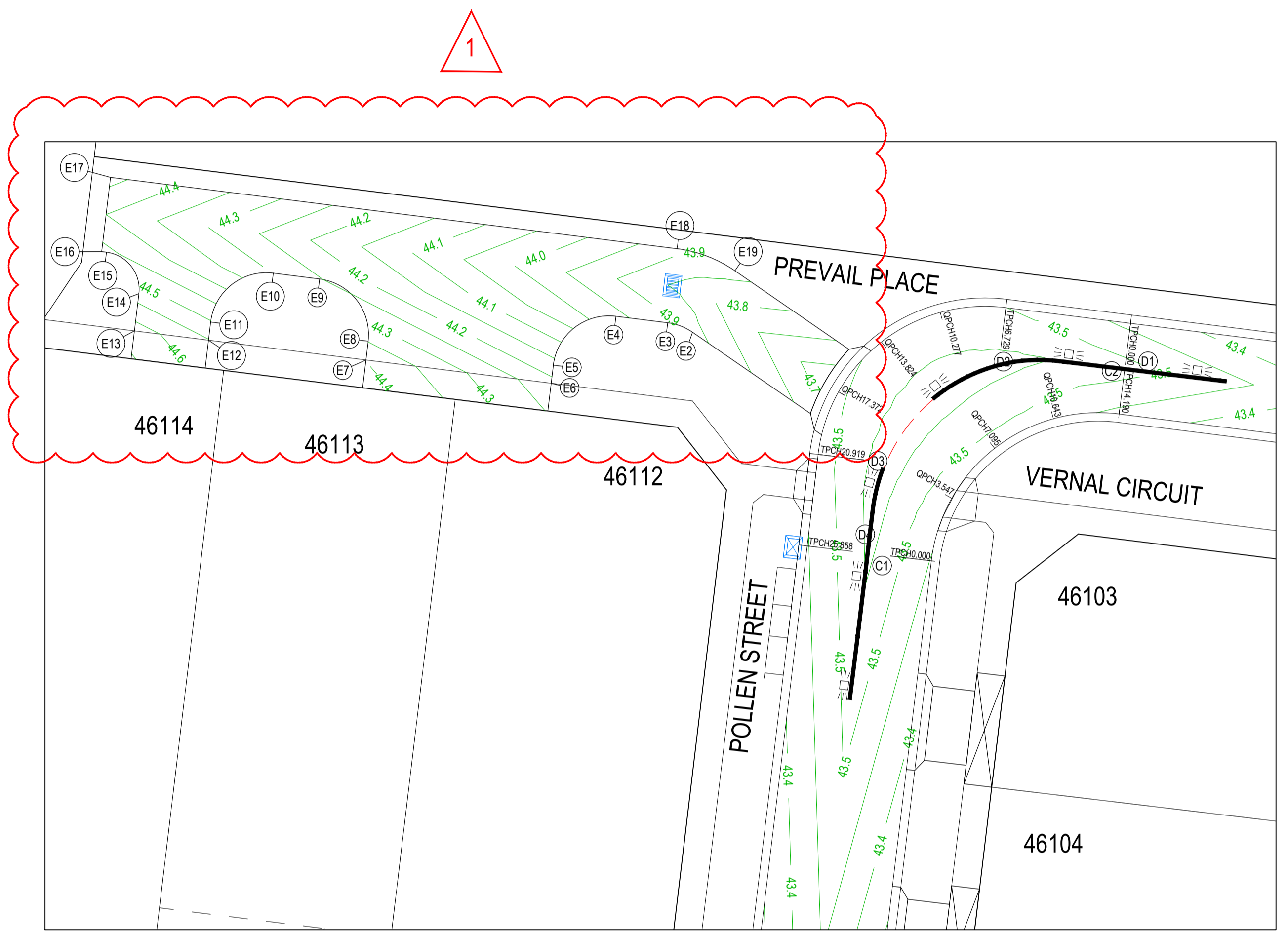
STATUS: **ISSUED FOR CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R200	1

Certification No: 14920

LEGEND - LIP PROFILES

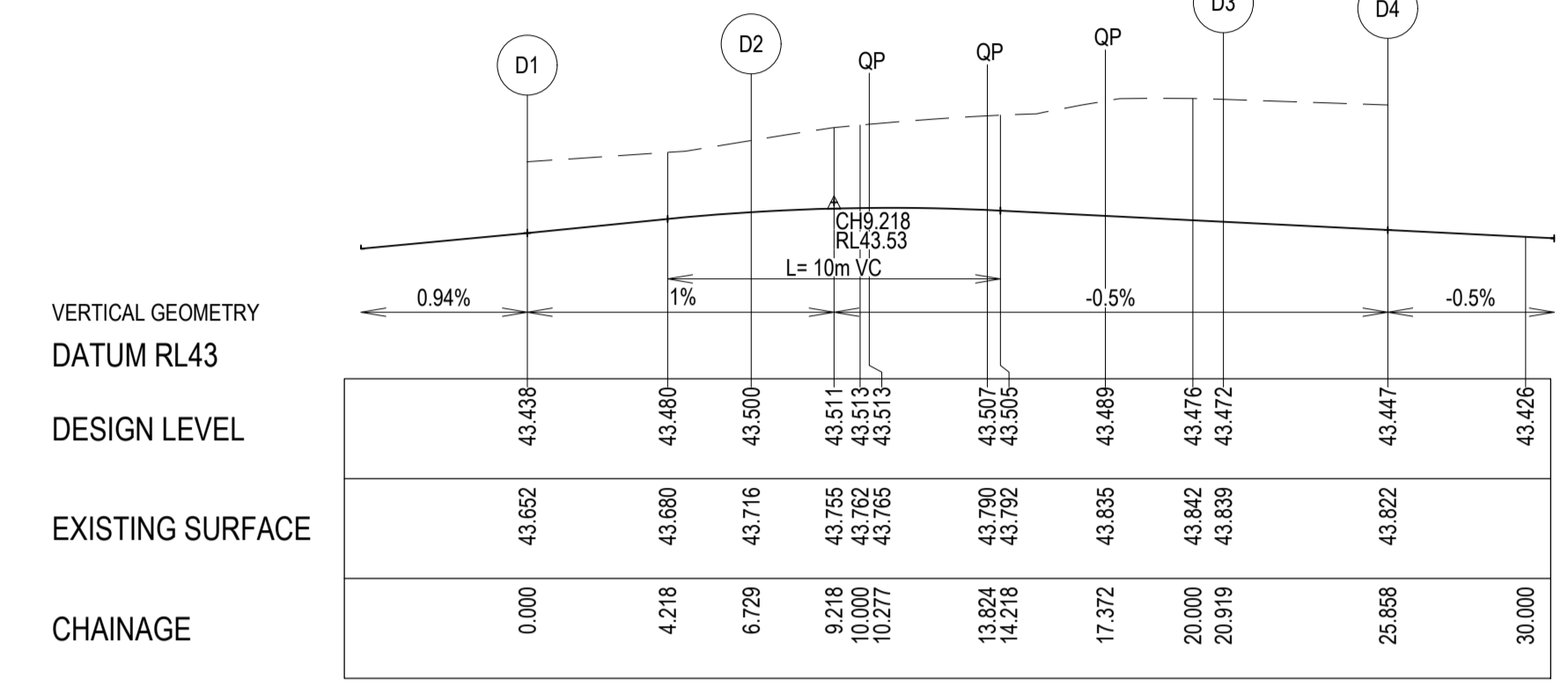
---	EXISTING SURFACE
—	DESIGN LINE



SETOUT INFORMATION - LIP LINE C

PT NO	EASTING	NORTHING	RL
C1	265112.587	5766654.594	43.447
C2	265122.644	5766662.455	43.438

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
C1 - C2	90.336	9	14.19	2.655	1.965	3.456	2.926	3.547	43.48



SETOUT INFORMATION - LIP LINE D

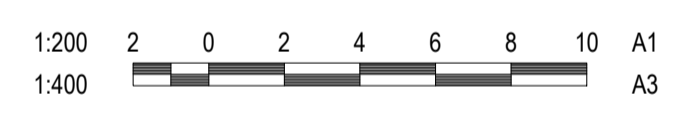
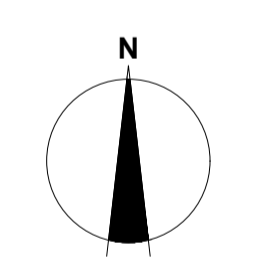
PT NO	EASTING	NORTHING	RL
D1	265123.255	5766667.317	43.438
D2	265116.578	5766668.155	43.5
D3	265106.521	5766660.294	43.472
D4	265105.934	5766655.39	43.447

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
D2 - D3	90.336	9	14.19	2.655	1.965	3.456	2.926	3.547	43.507

SETOUT INFORMATION - LIP LINE E

Point no	Eastng	Northng	RL
E2	265099.794	5766666.841	43.869
E3	265098.465	5766667.348	43.913
E4	265095.692	5766667.697	43.963
E5	265092.338	5766665.076	44.168
E6	265092.223	5766664.108	44.217
E7	265082.300	5766665.353	44.399
E8	265082.421	5766666.361	44.348
E9	265079.816	5766669.693	44.253
E10	265077.336	5766670.006	44.299
E11	265073.983	5766667.385	44.504
E12	265073.866	5766666.412	44.553
E13	265069.897	5766666.911	44.625
E14	265070.136	5766668.908	44.525
E15	265068.400	5766671.130	44.462
E16	265068.144	5766671.162	44.466
E17	265068.619	5766675.138	44.466
E18	265098.964	5766671.316	43.913
E19	265102.065	5766670.133	43.869

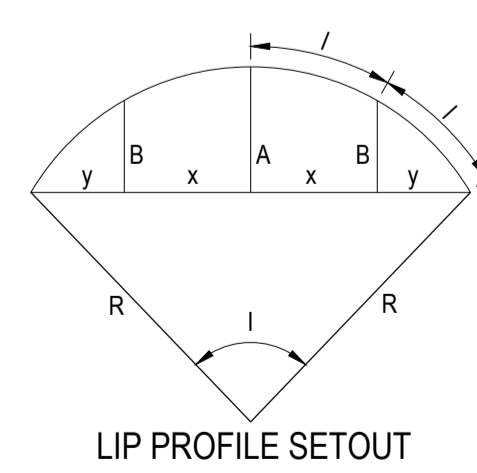
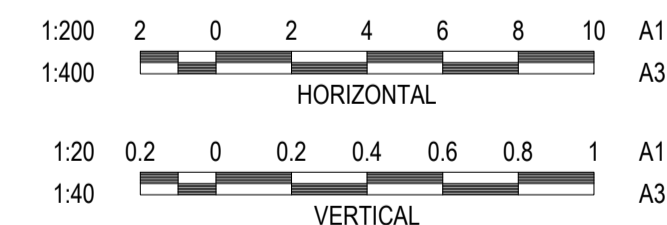
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E2 - E3	27.424	3.000	1.436	0.086	0.064	0.358	0.353	0.359	43.891
E4 - E5	90.350	3.000	4.731	0.885	0.655	1.152	0.976	1.183	44.046
E8 - E9	89.650	3.000	4.694	0.872	0.646	1.144	0.971	1.174	44.259
E10 - E11	90.350	3.000	4.731	0.885	0.655	1.152	0.976	1.183	44.381
E14 - E15	89.650	2.000	3.129	0.581	0.430	0.763	0.647	0.782	44.466
E18 - E19	27.424	7.000	3.350	0.200	0.149	0.836	0.824	0.838	43.891



NOTE:
 REFER SHEET R800 FOR
 SIGNAGE & LINEMARKING PLAN

LEGEND - INTERSECTION DETAIL PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- CROWN



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A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

villawood
 properties
 Communities Designed for Living

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

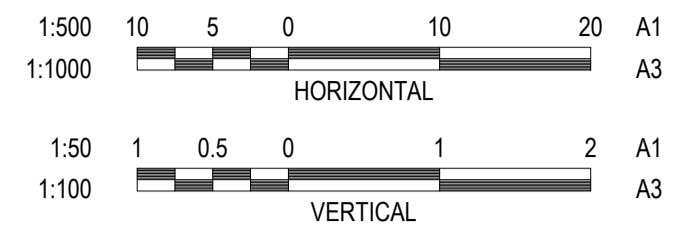
ARMSTRONG
 MT DUNEED

ARMSTRONG - STAGE 46D
INTERSECTION DETAIL PLAN

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R300	1

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	LEFT BACK OF KERB
	RIGHT BACK OF KERB



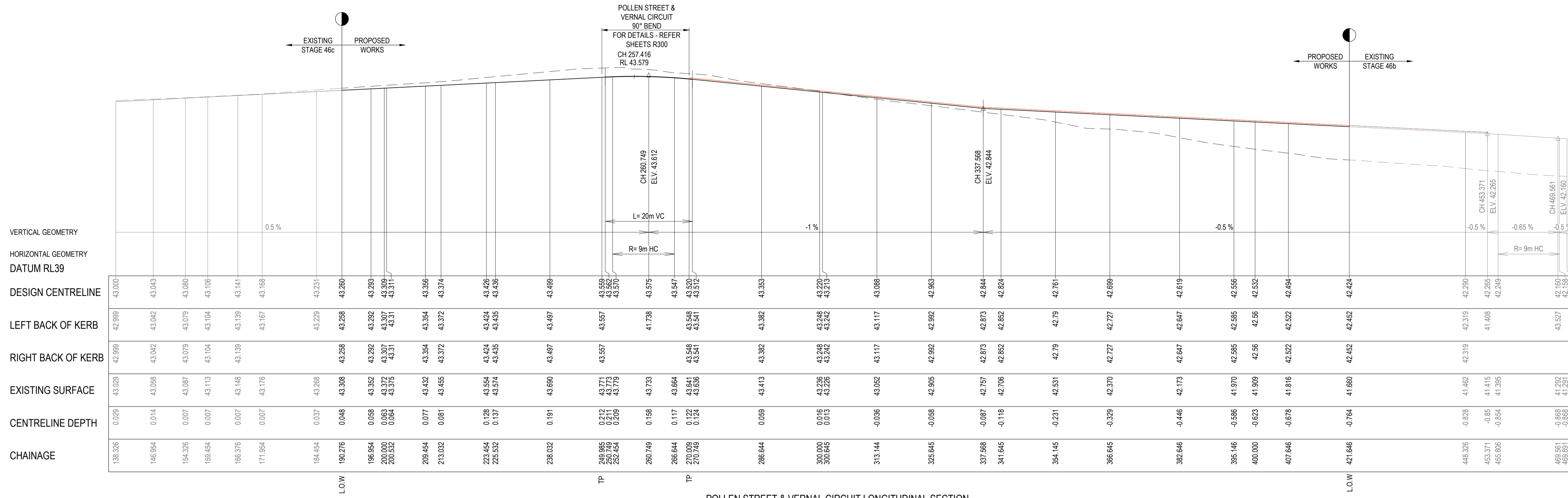
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

**GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME**

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 4 of 12
Approved By Daniel Cromberge
Approved Date 26/04/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 14920



**POLLEN STREET & VERNAL CIRCUIT
CENTRELINE SETOUT**

CHAINAGE	EASTING	NORTHING	BEARING
190.276	265102.171	5766595.706	6°49'11" IP
200.000	265103.325	5766605.361	6°49'11" TC
252.454	265109.554	5766657.444	6°49'11" TC
253.571	265109.755	5766658.542	13°55'51"
254.762	265110.117	5766659.675	21°30'34"
255.952	265110.625	5766660.751	29°05'18"
257.143	265111.271	5766661.750	36°40'02"
258.333	265112.043	5766662.655	44°14'45"
259.524	265112.928	5766663.451	51°49'29"
260.714	265113.909	5766664.122	59°24'13"
261.905	265114.971	5766664.659	66°58'57"
263.095	265116.094	5766665.051	74°33'40"
264.286	265117.259	5766665.291	82°08'24"
265.476	265118.446	5766665.375	89°43'08"
266.644	265119.611	5766665.305	97°09'20" CT
300.000	265132.707	5766661.150	97°09'20"
337.568	265189.982	5766656.471	97°09'20"
400.000	265251.928	5766648.694	97°09'20"
421.593	265273.353	5766646.004	97°09'20" IP

-- IP Details --

IP 1
coordinate = 265102.1706 5766595.7061
chainage = 190.2764

IP 2
coordinate = 265110.6289 5766666.4331
centre = 265118.4903 5766656.3755
radius = 9.0000
length = 14.1899
intersect angle = 90°20'09"

start tangent
coordinate = 265109.5539 5766657.4442
length = 9.0529
chainage = 252.4544
bearing = 6°49'11"

end tangent
coordinate = 265119.6114 5766665.3054
length = 9.0529
chainage = 266.6444
bearing = 97°09'20"

IP 3
coordinate = 265273.3532 5766646.0042
chainage = 421.5930

POLLEN STREET & VERNAL CIRCUIT LONGITUDINAL SECTION

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT

Communities Designed for Living

PROJECT

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

DRAWING TITLE

**ARMSTRONG - STAGE 46D
ROAD LONGITUDINAL SECTIONS &
CENTRELINE SETOUT**

STATUS

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R400	0

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL
 GREATER GEELONG CITY COUNCIL
 PLANNING ENVIRONMENT ACT 1987
 GREATER GEELONG PLANNING SCHEME

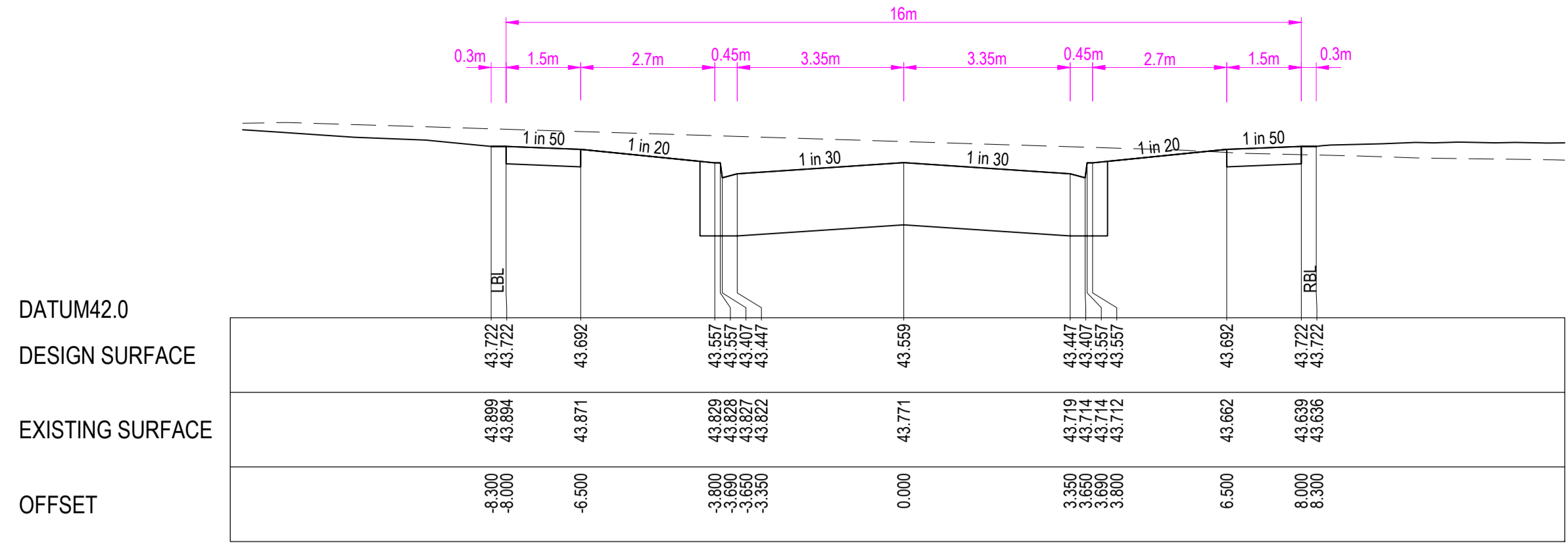
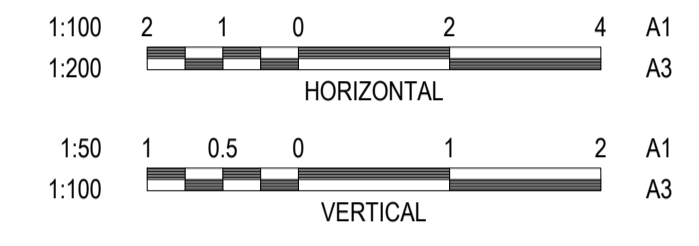
Endorsed Plan
 Planning Permit No: PP-496-2012
 Sheet 5 of 12
 Approved By Daniel Cromberge
 Approved Date 26/04/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

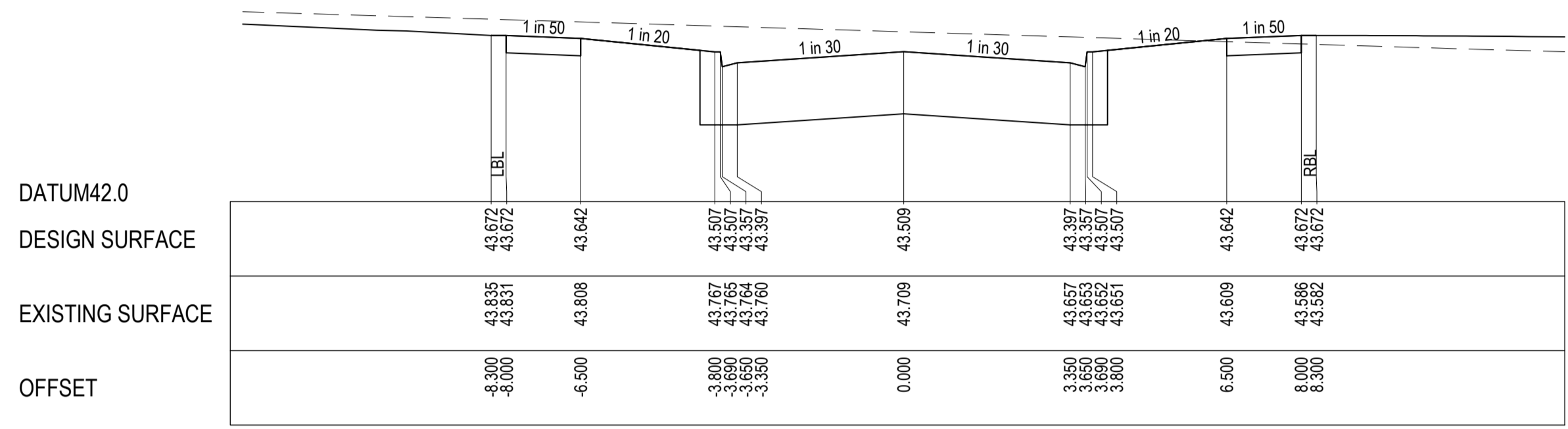
Certification No: 14920

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	SELECT FILL

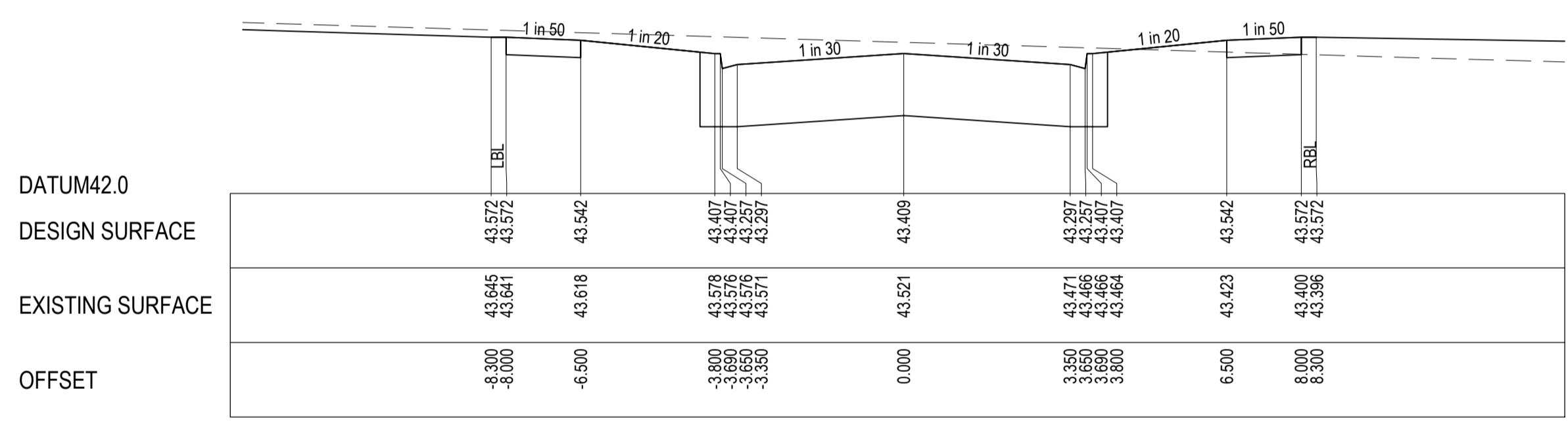
NOTE
 SELECT FILL REQUIRED UNDER PAVEMENT
 AND FOOTPATHS WHERE CONSTRUCTED
 ABOVE NATURAL SURFACE



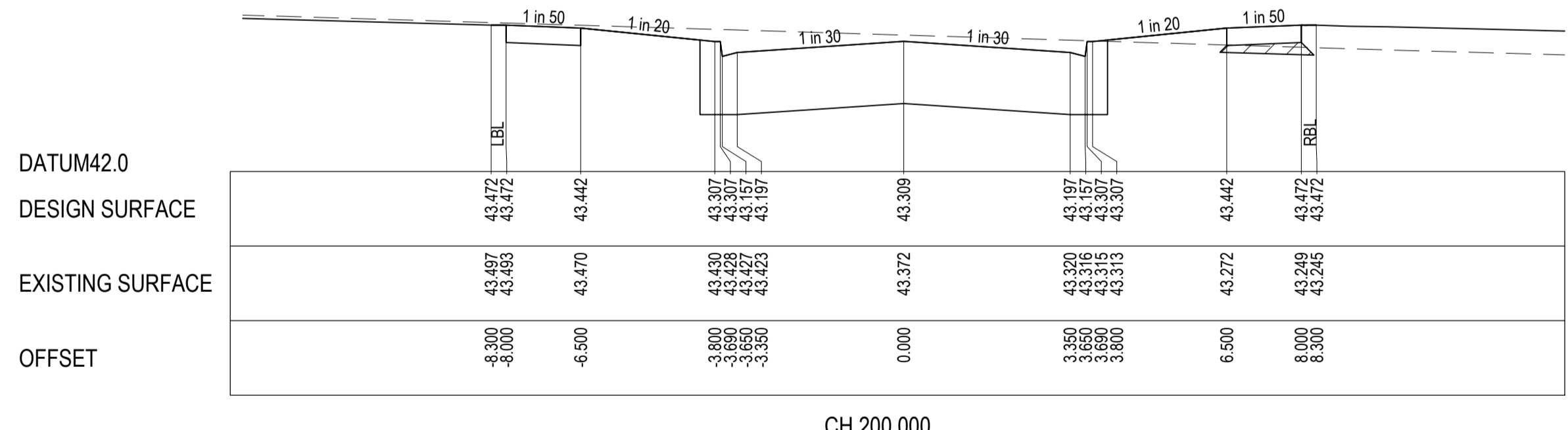
CH 249.985



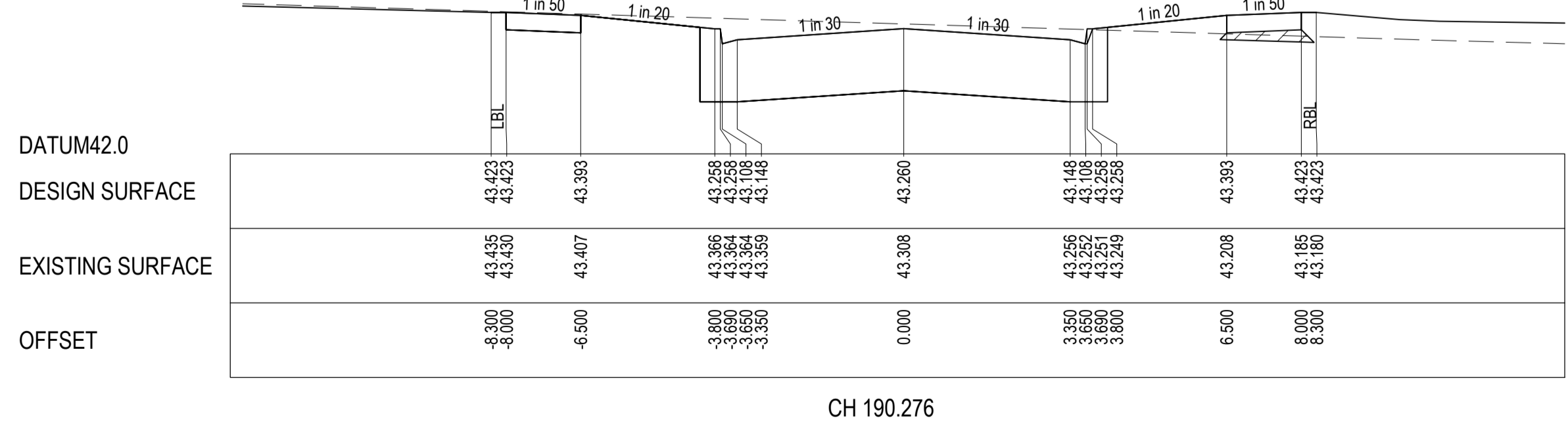
CH 240.000



CH 220.000



CH 200.000



CH 190.276

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT

Communities Designed for Living

PROJECT

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

DRAWING TITLE

ARMSTRONG - STAGE 46D
 ROAD CROSS SECTIONS - 01
 POLLEN STREET

STATUS

ISSUED FOR CONSTRUCTION

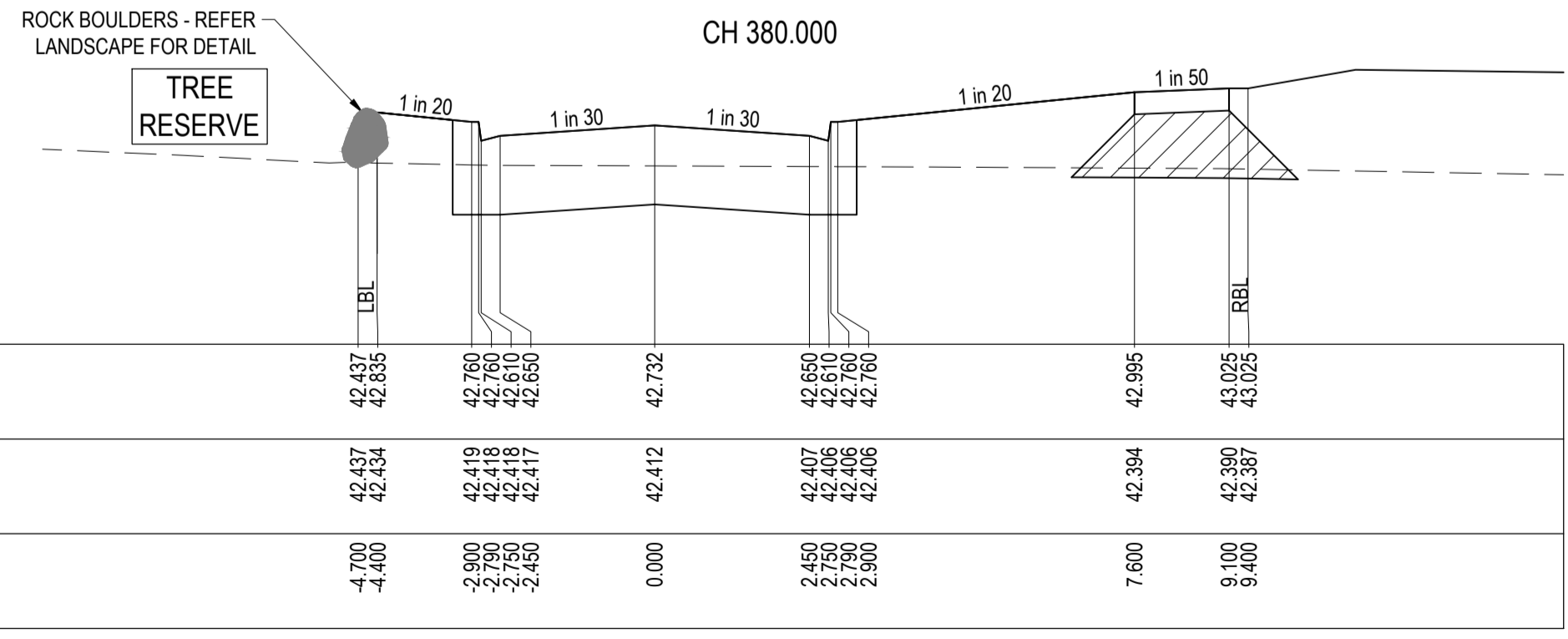
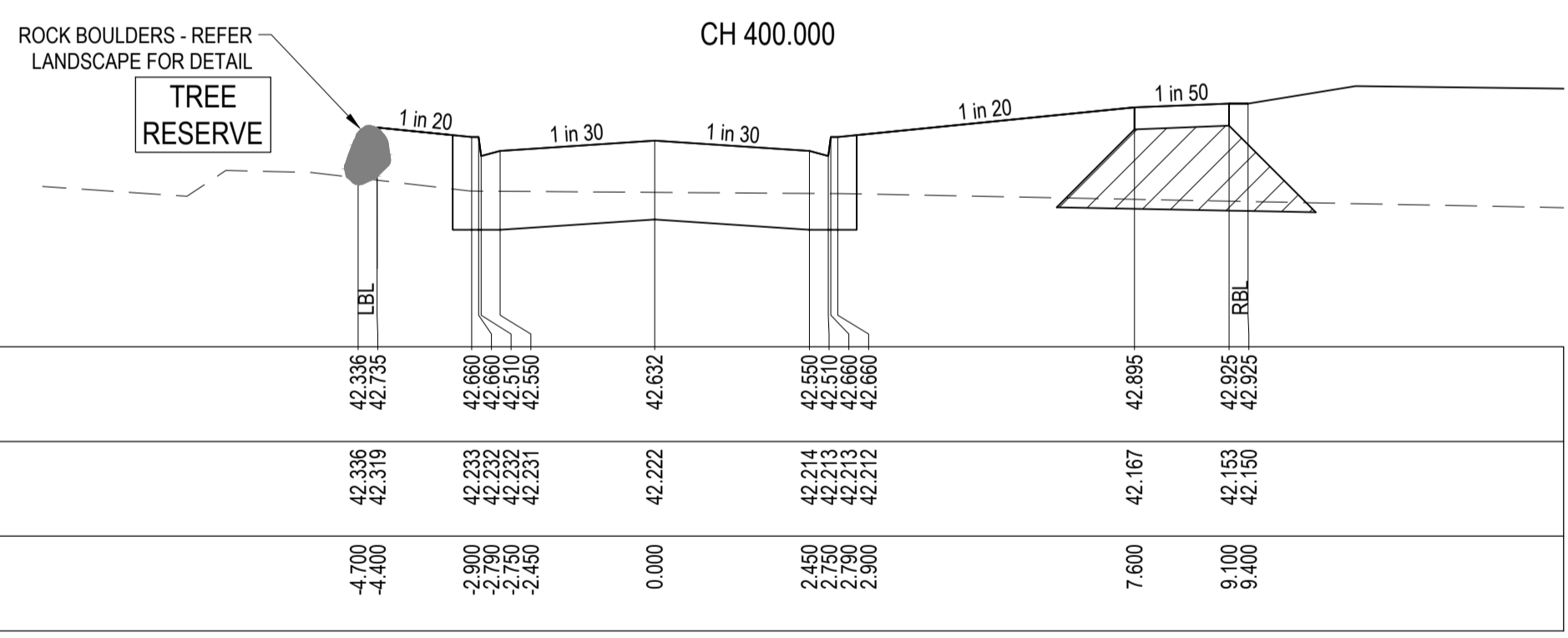
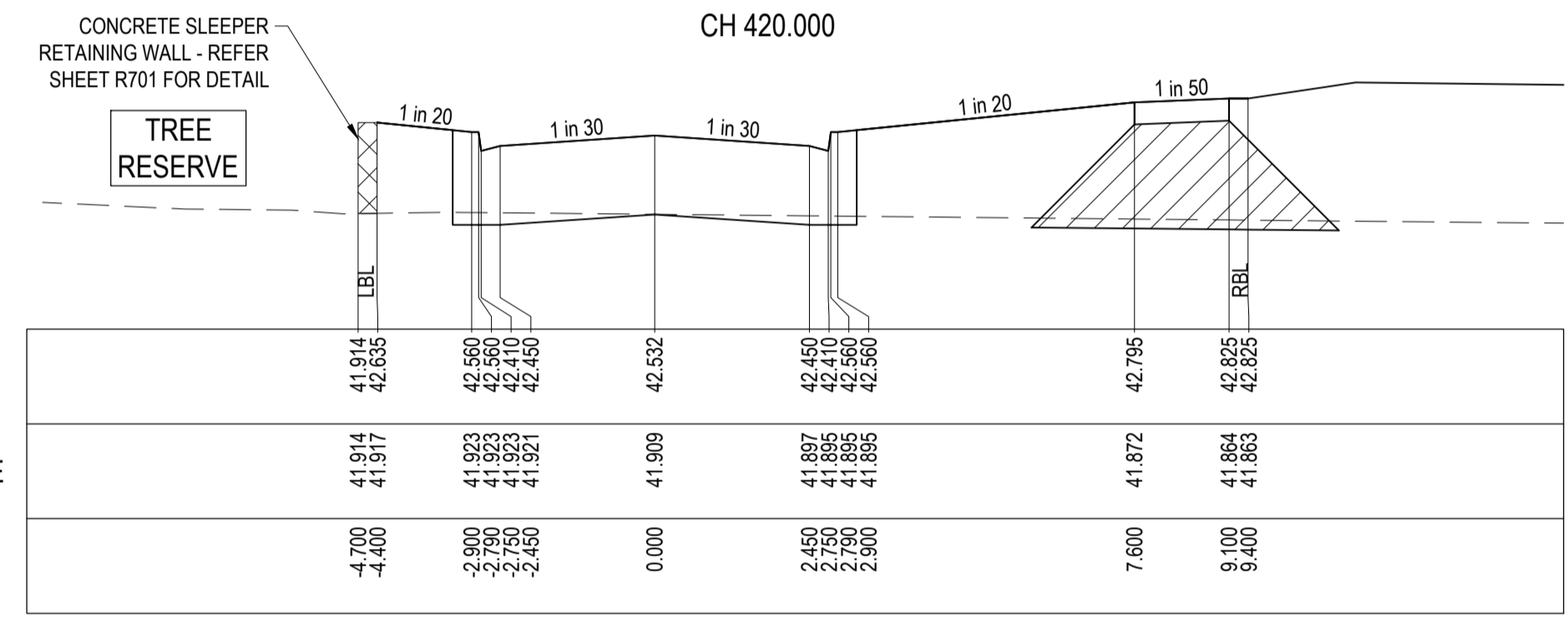
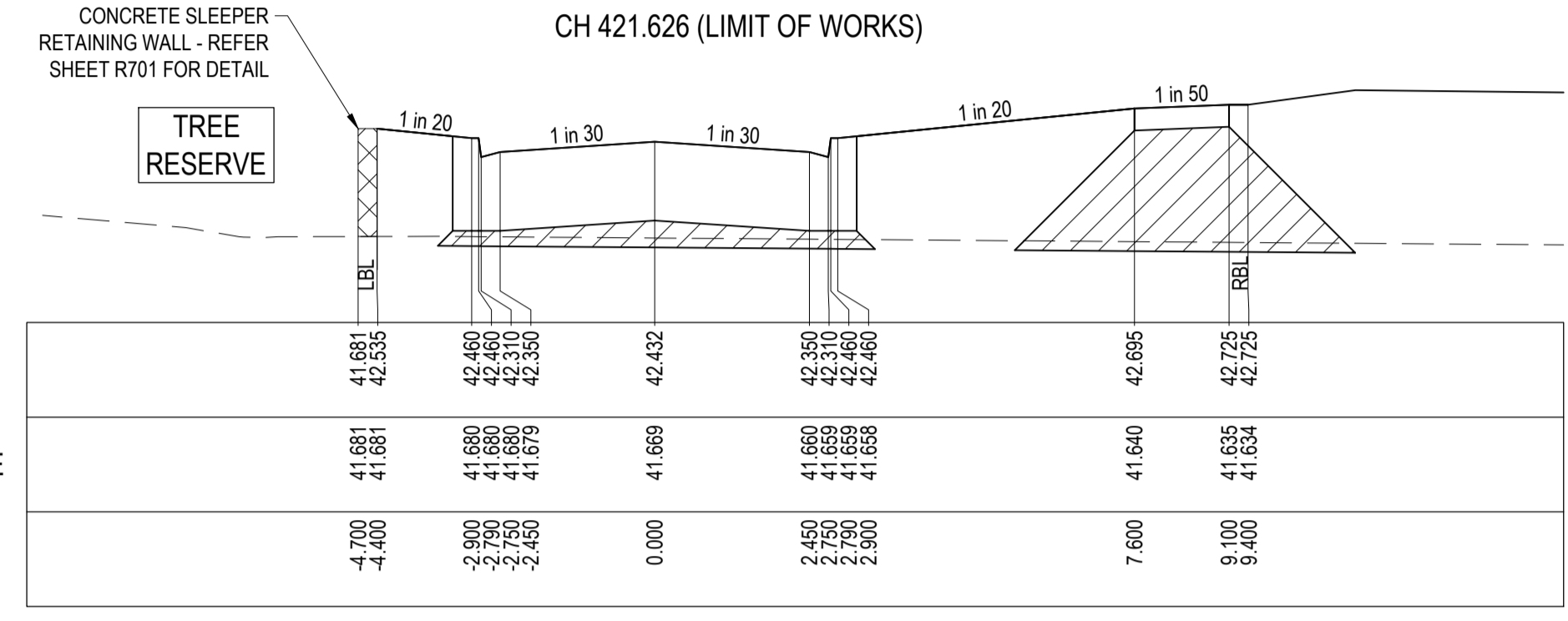
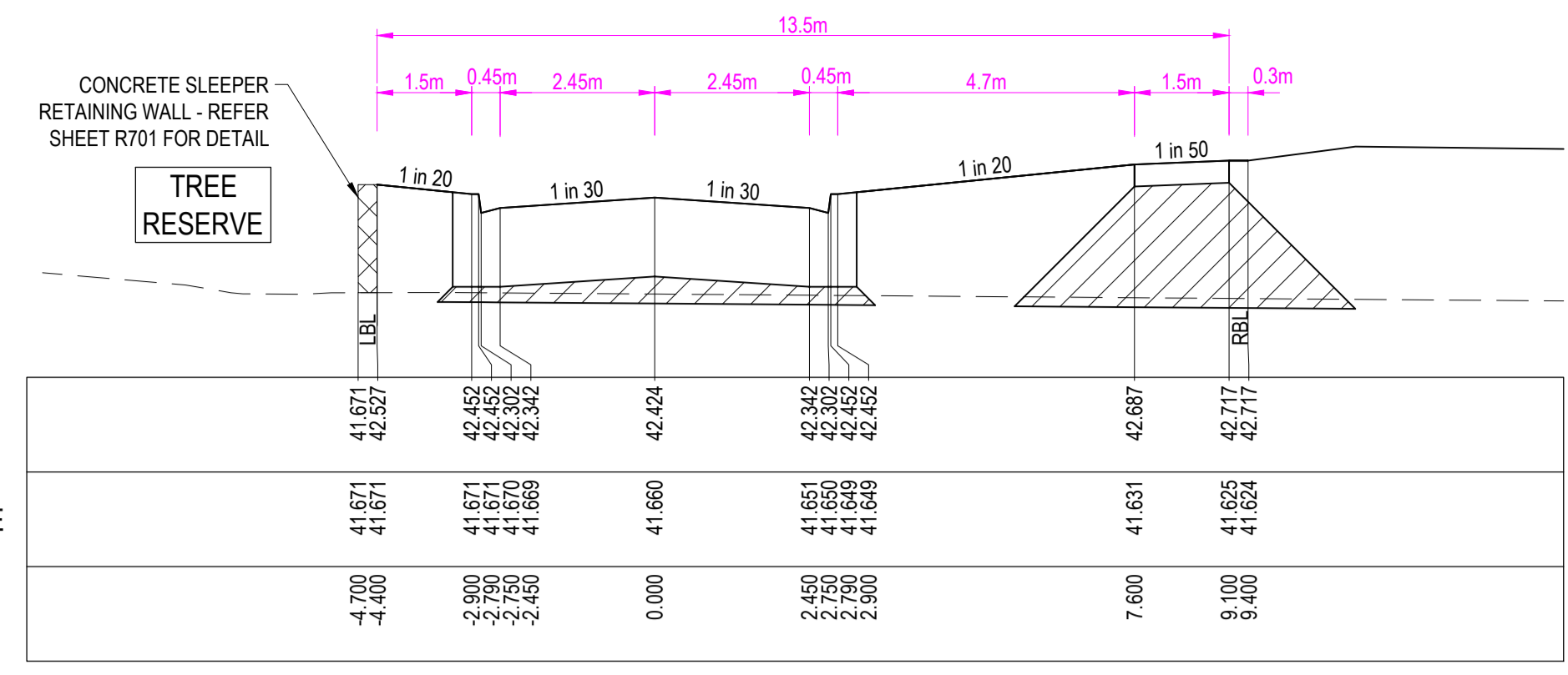
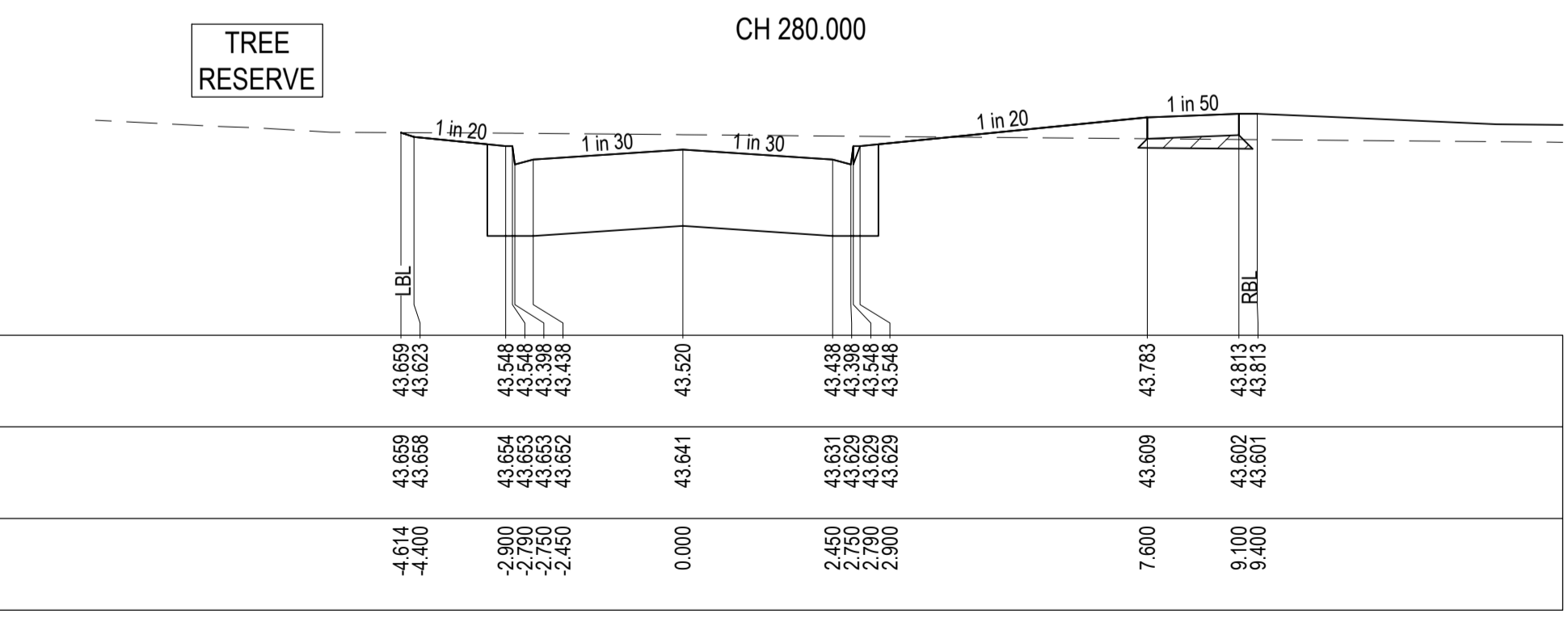
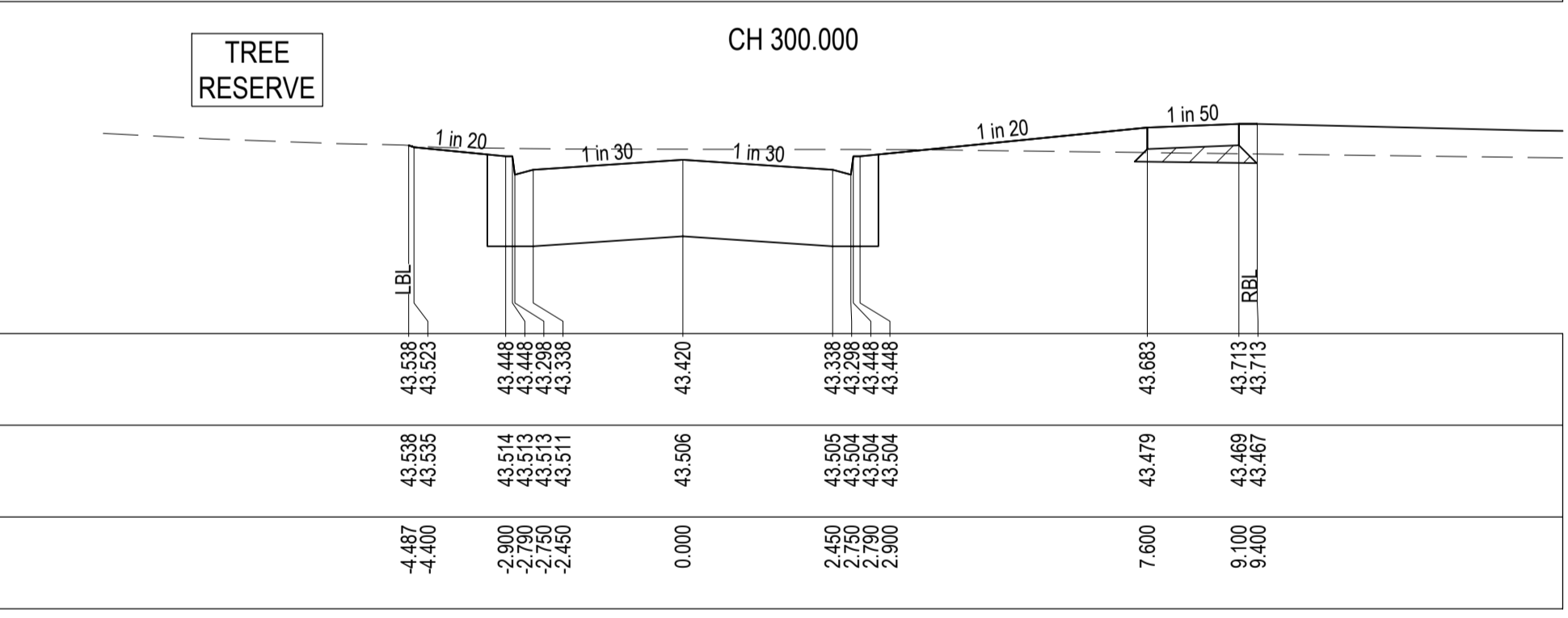
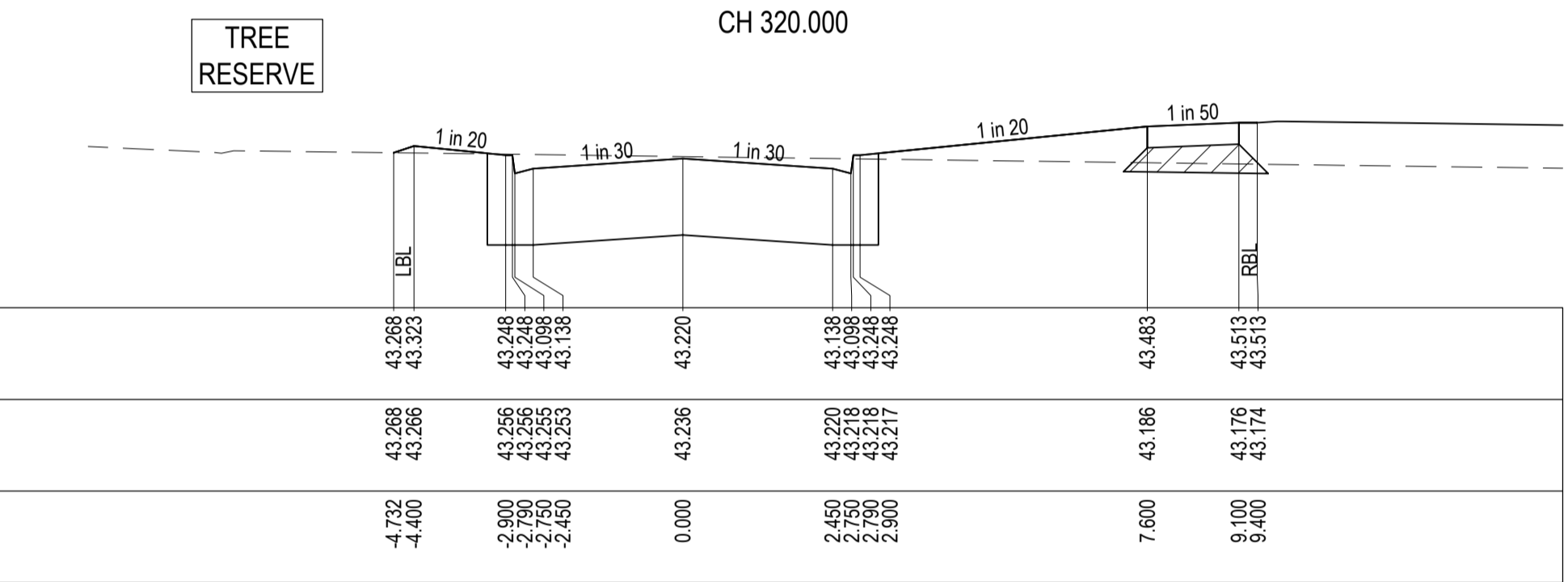
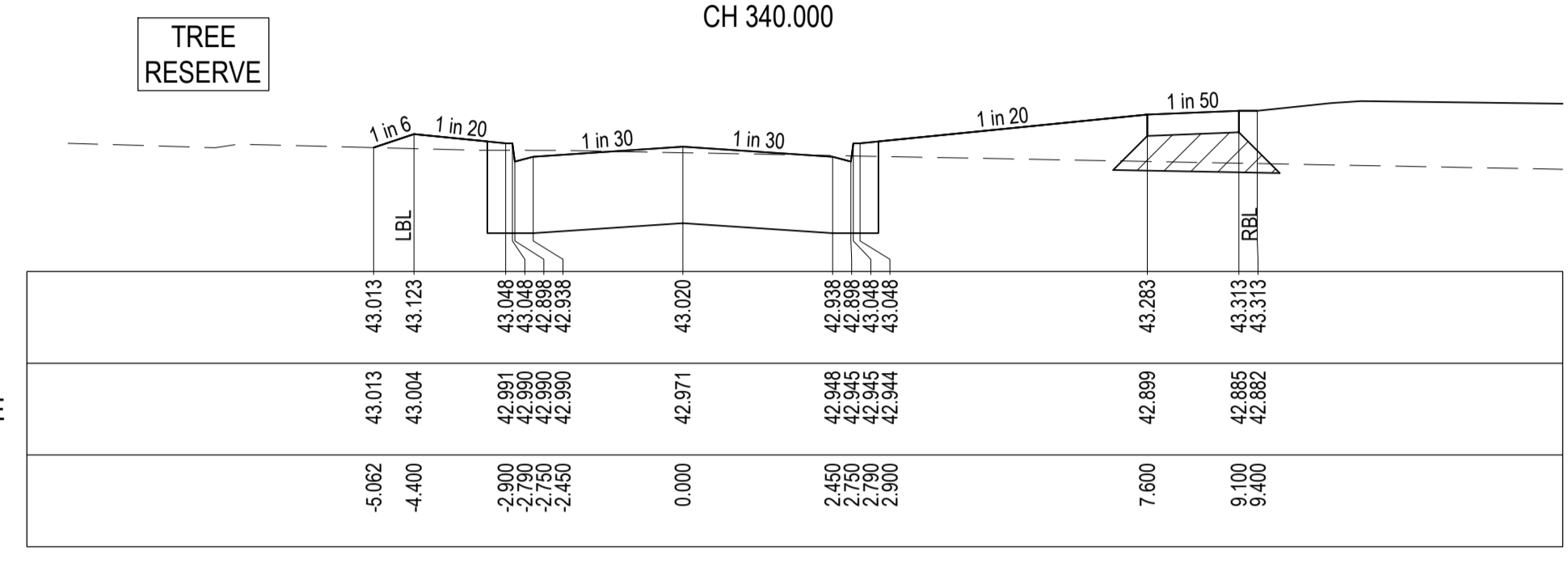
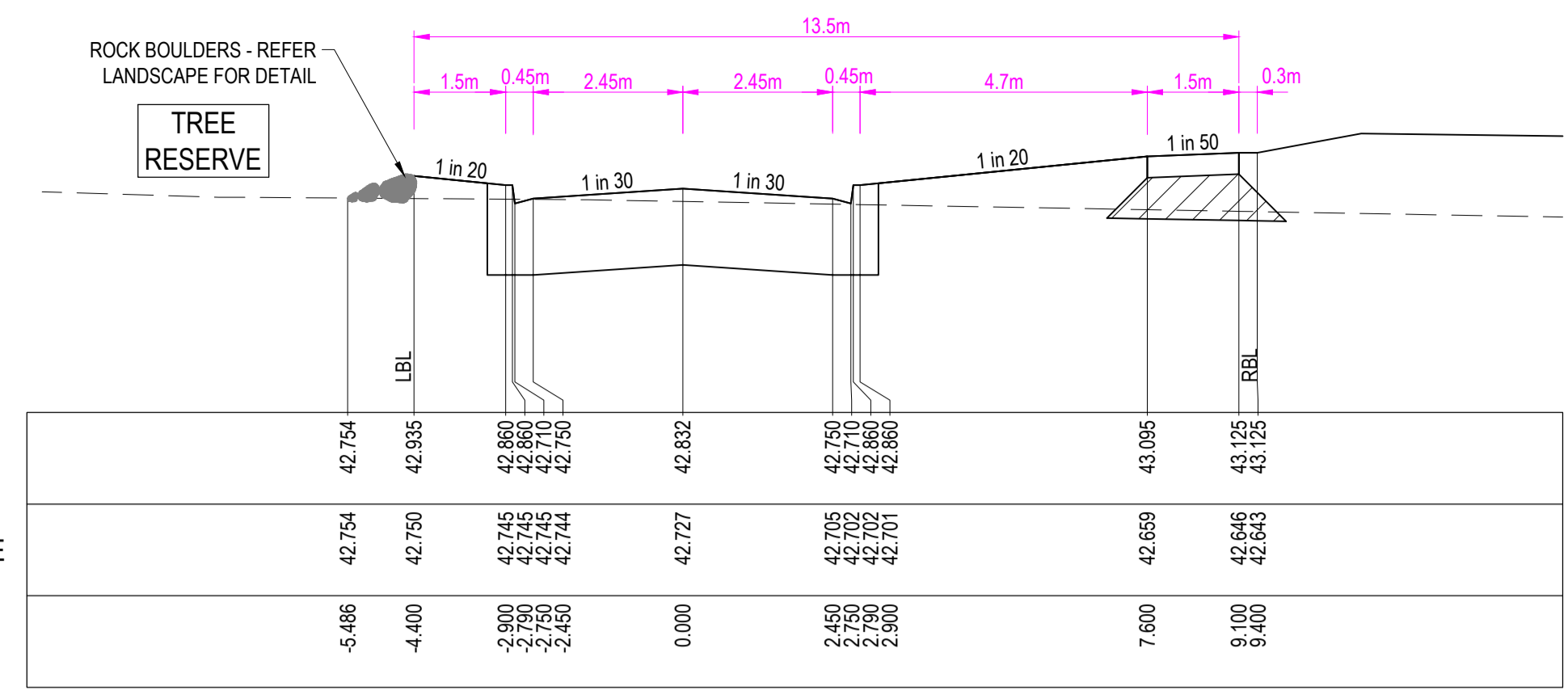
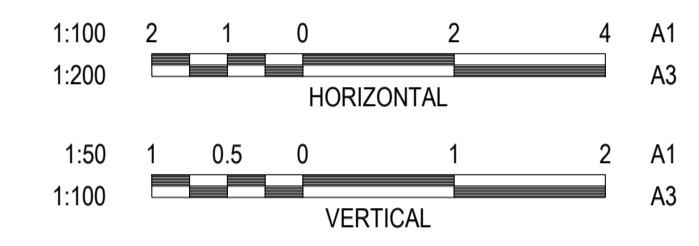
SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R500	0

Certification No: 14920

LEGEND

	EXISTING SURFACE
	DESIGN LINE
	SELECT FILL

NOTE
 SELECT FILL REQUIRED UNDER PAVEMENT
 AND FOOTPATHS WHERE CONSTRUCTED
 ABOVE NATURAL SURFACE



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

villawood
 properties
 Communities Designed for Living

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

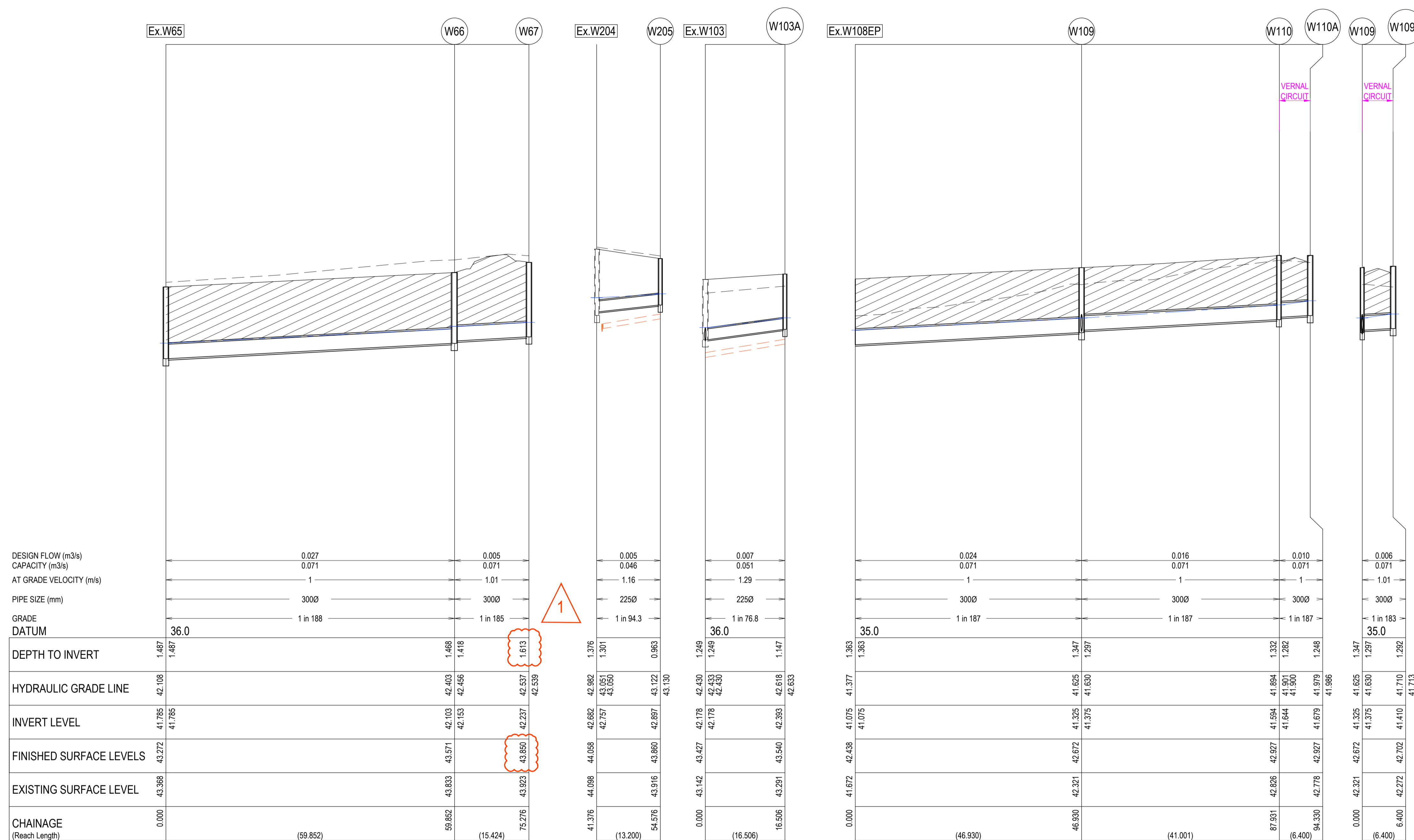
ARMSTRONG
 MT DUNEED

ARMSTRONG - STAGE 46D
ROAD CROSS SECTIONS - 02
VERNAL CIRCUIT

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R501	0

Certification No: 14920



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% STABILIZED SAND, 300mm ABOVE TOP OF PIPE.

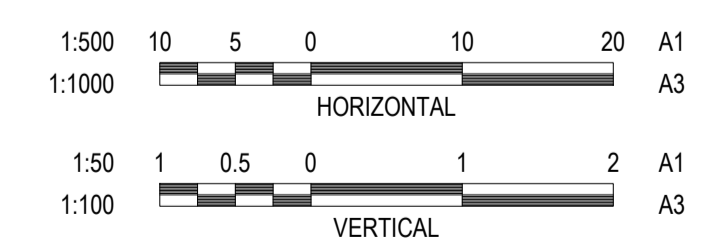
REINFORCED CONCRETE PIPES

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

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 TYPE UNLESS OTHERWISE SHOWN



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	05/03/20	PIT W67 REVISED	T.THOMAS	M.TROUNCE	T.PALIOS
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

villawood properties
 Communities Designed for Living

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

ARMSTRONG
 MT DUNEED

**ARMSTRONG - STAGE 46D
 DRAINAGE LONG SECTIONS**

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R600	1

1

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.W65	Ex.SIDE ENTRY PIT	600	900	300	41.785	Ex.300	Ex.41.735	43.272	1.481		CONNECT TO EXISTING BLOCKOUT
W66	SIDE ENTRY PIT	600	900	300	42.152	300	42.102	43.571	1.469	IDM SD 430	
W67	GRATED PIT	600	900	-	-	300	42.237	43.850	1.613	IDM SD 420	
Ex.W103	Ex.JUNCTION PIT	Ex.600	Ex.900	225	42.178	Ex.300	Ex.42.103	43.427	1.249		CONNECT TO EXISTING NORTH AND SOUTH BLOCKOUTS
				225	42.178						
W103A	JUNCTION PIT	600	900	-	-	225	42.393	43.540	1.147	IDM SD 425	
Ex.W108EP	Ex.ENDPIPE			300	41.075	Ex.300	Ex.41.075	42.438	1.363		CONNECT TO EXISTING ENDPIPE
W109	SIDE ENTRY PIT	600	900	300	41.375	300	41.325	42.672	1.347	IDM SD 430	
				300	41.375						
W110	SIDE ENTRY PIT	600	900	300	41.644	300	41.594	42.927	1.332	IDM SD 430	
W110A	SIDE ENTRY PIT	600	900	-	-	300	41.679	42.927	1.248	IDM SD 430	
Ex.W203EP	Ex.ENDPIPE	-	-	300	42.461	Ex.300	Ex.42.461	43.771	1.310		
Ex.W204	JUNCTION PIT	600	900	225	42.757	Ex.300	Ex.42.682	44.058	1.376	IDM SD 425	CONNECT TO EXISTING BLOCKOUT
W205	JUNCTION PIT	600	900	-	-	225	42.897	43.860	0.963	IDM SD 425	
W109A	SIDE ENTRY PIT	600	900	-	-	300	41.410	42.702	1.292	IDM SD 430	

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.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	05/03/21	PIT W67 REVISED	T.THOMAS	M.TROUNCE	T.PALIOS
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT



Communities Designed for Living

PROJECT



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

DRAWING TITLE



ARMSTRONG - STAGE 46D
 PIT SCHEDULE

STATUS

ISSUED FOR CONSTRUCTION

SCALE AT A1

AS SHOWN

PROJECT ENGINEER: M.TROUNCE

DRAWN: K.MCKELVIE

PROJECT MANAGER: T.PALIOS

DESIGNED: K.MCKELVIE

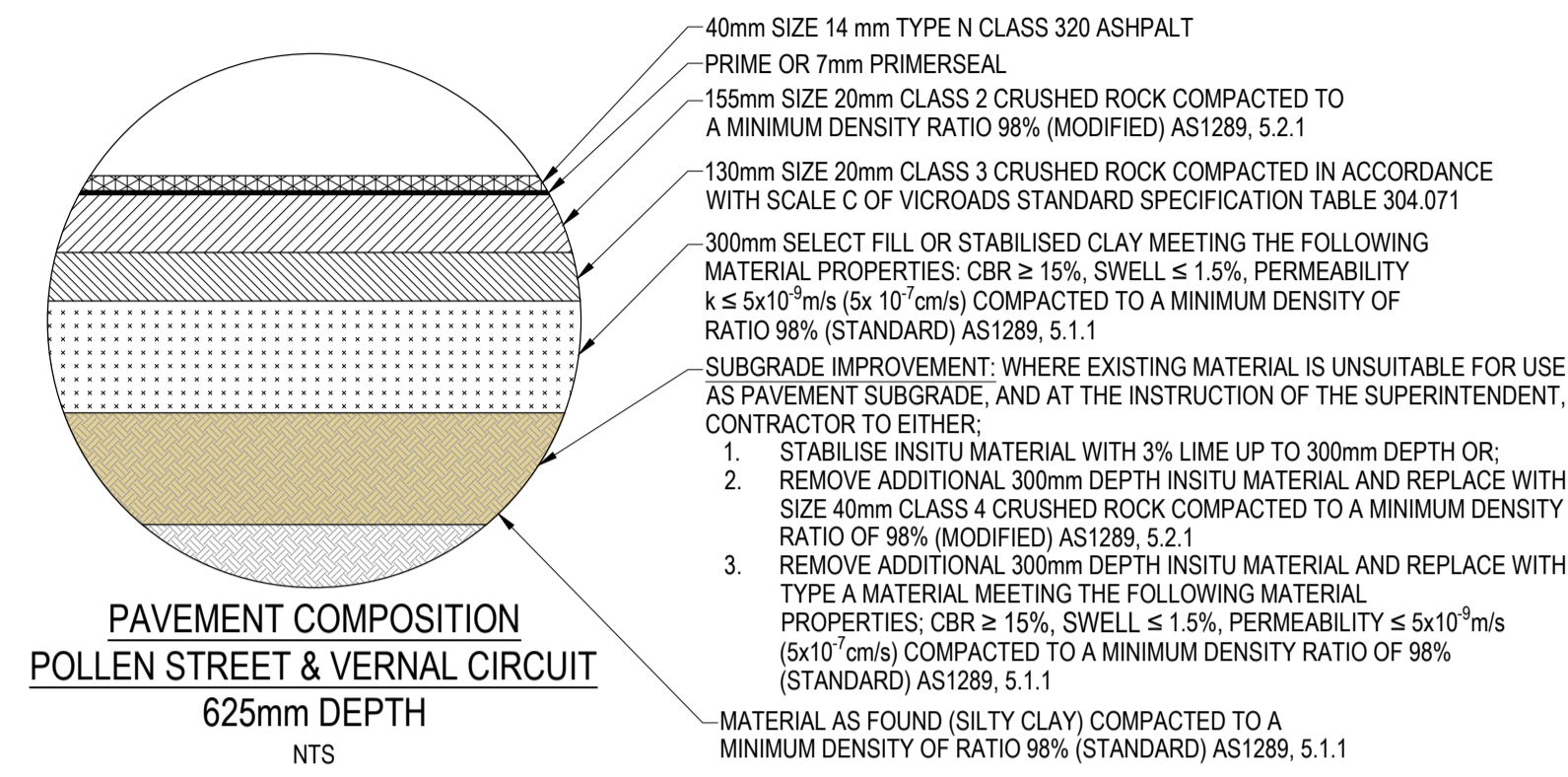
DATE FIRST ISSUE: JUNE 2020

PROJECT No. 180016.46D

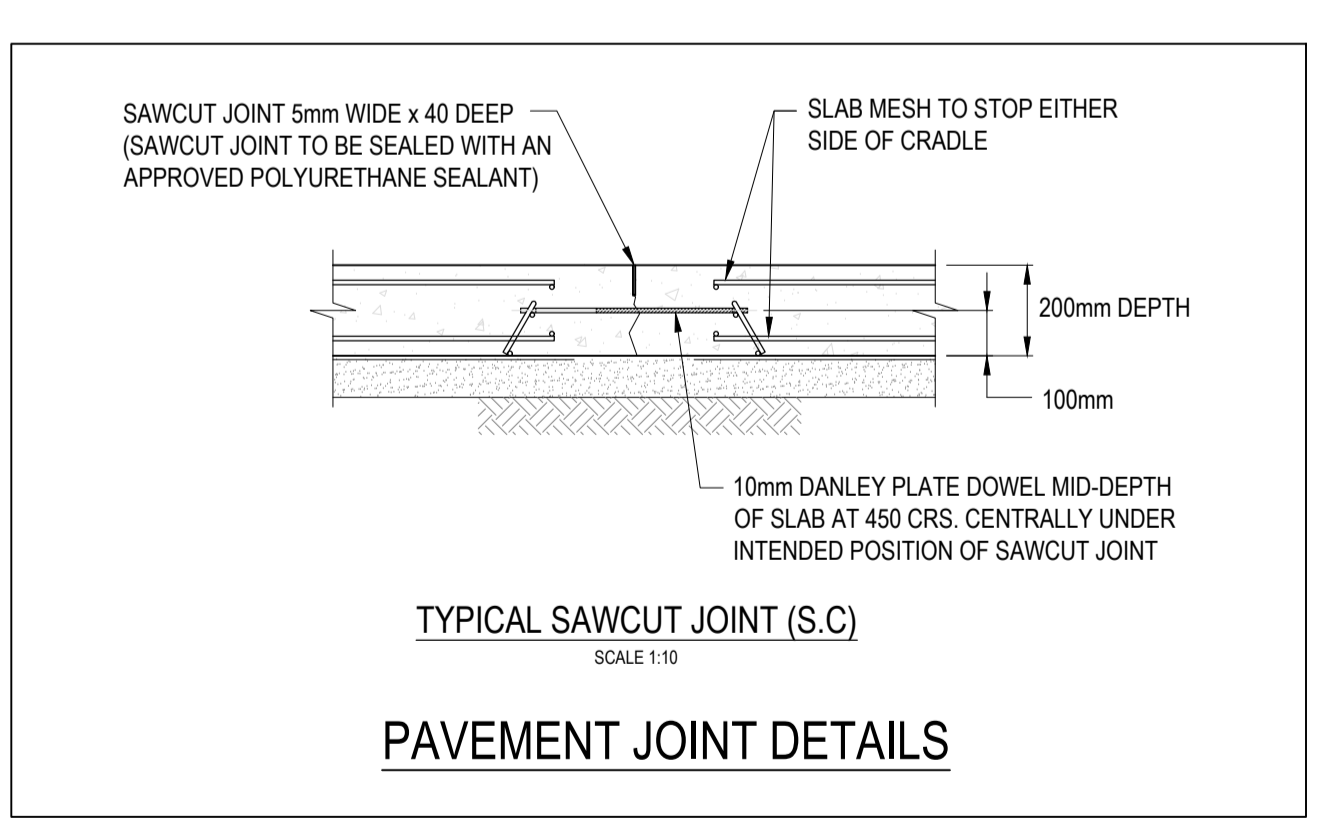
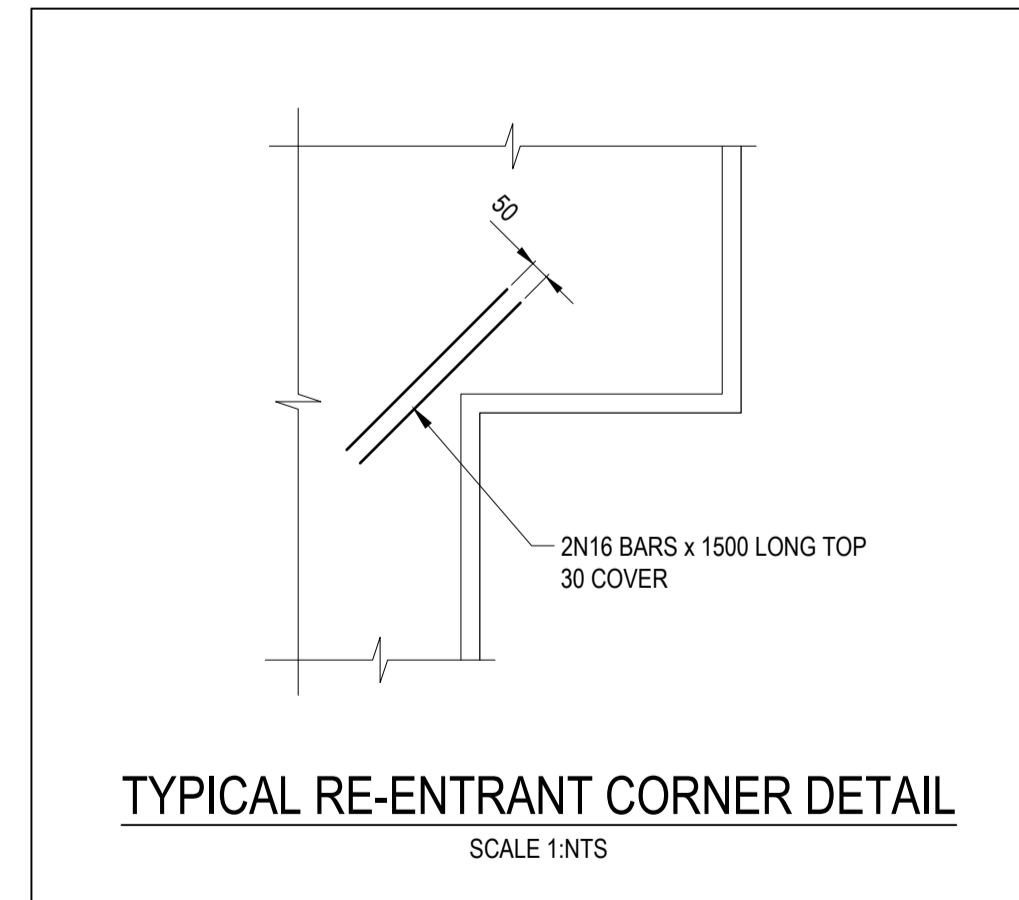
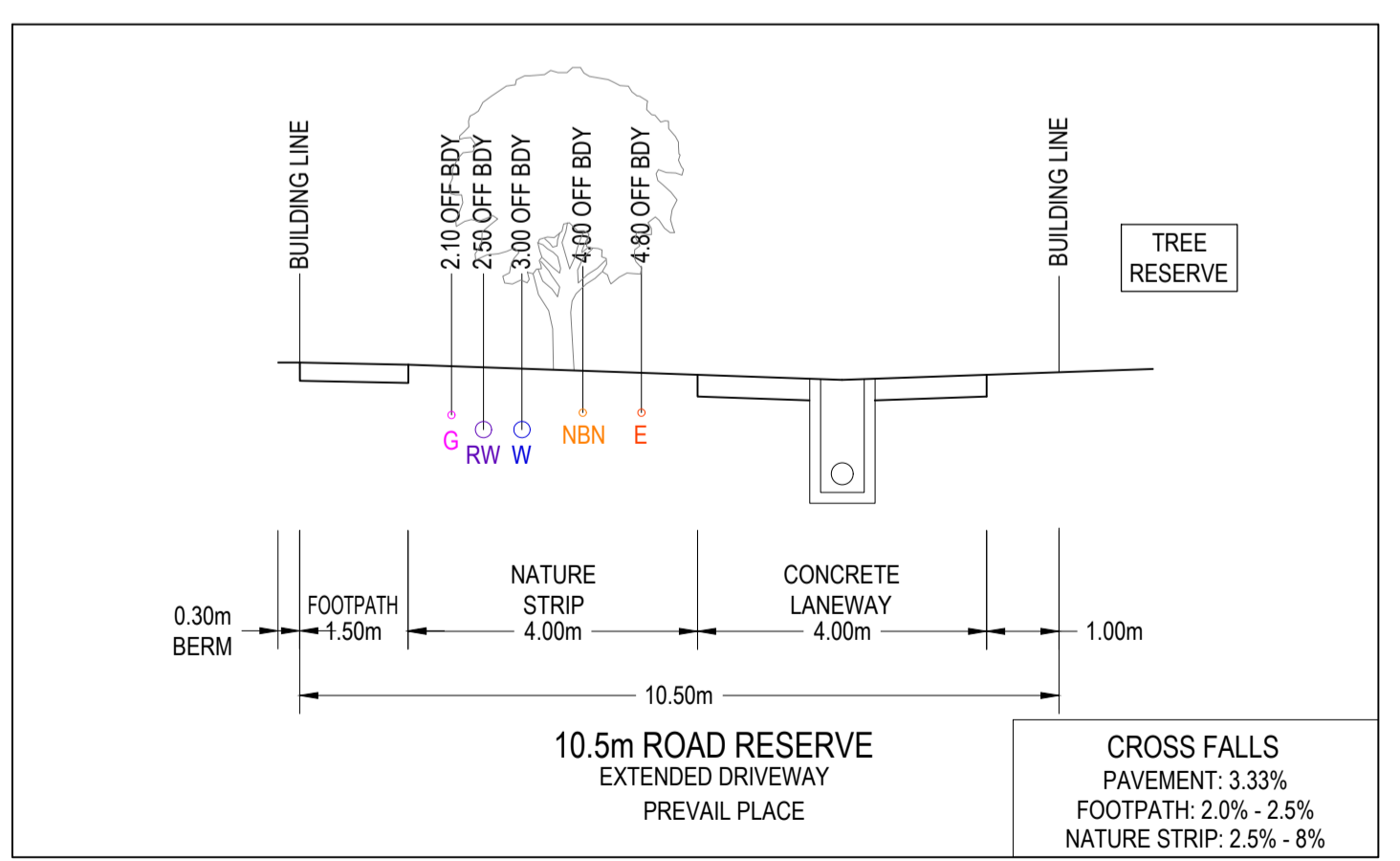
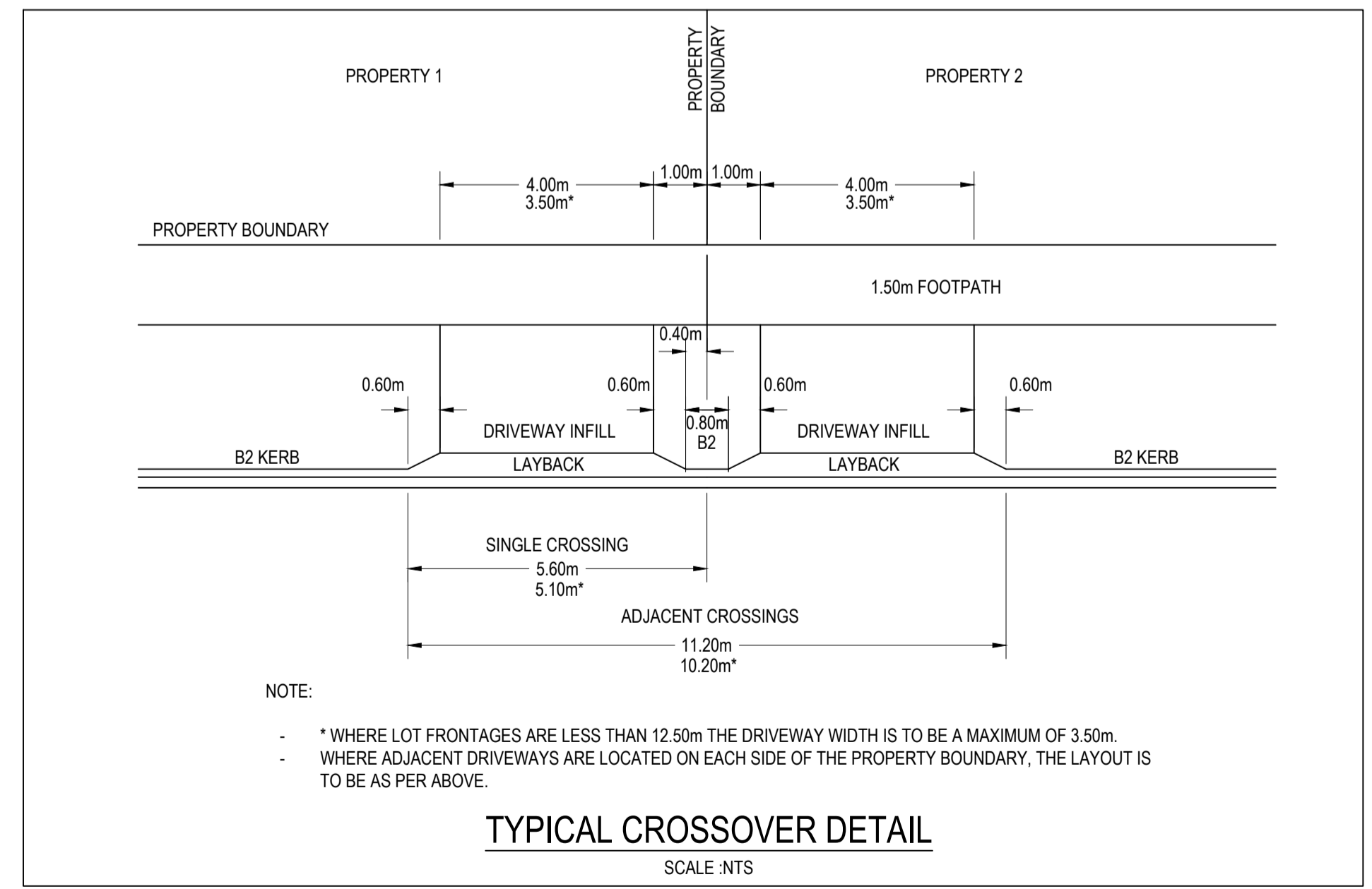
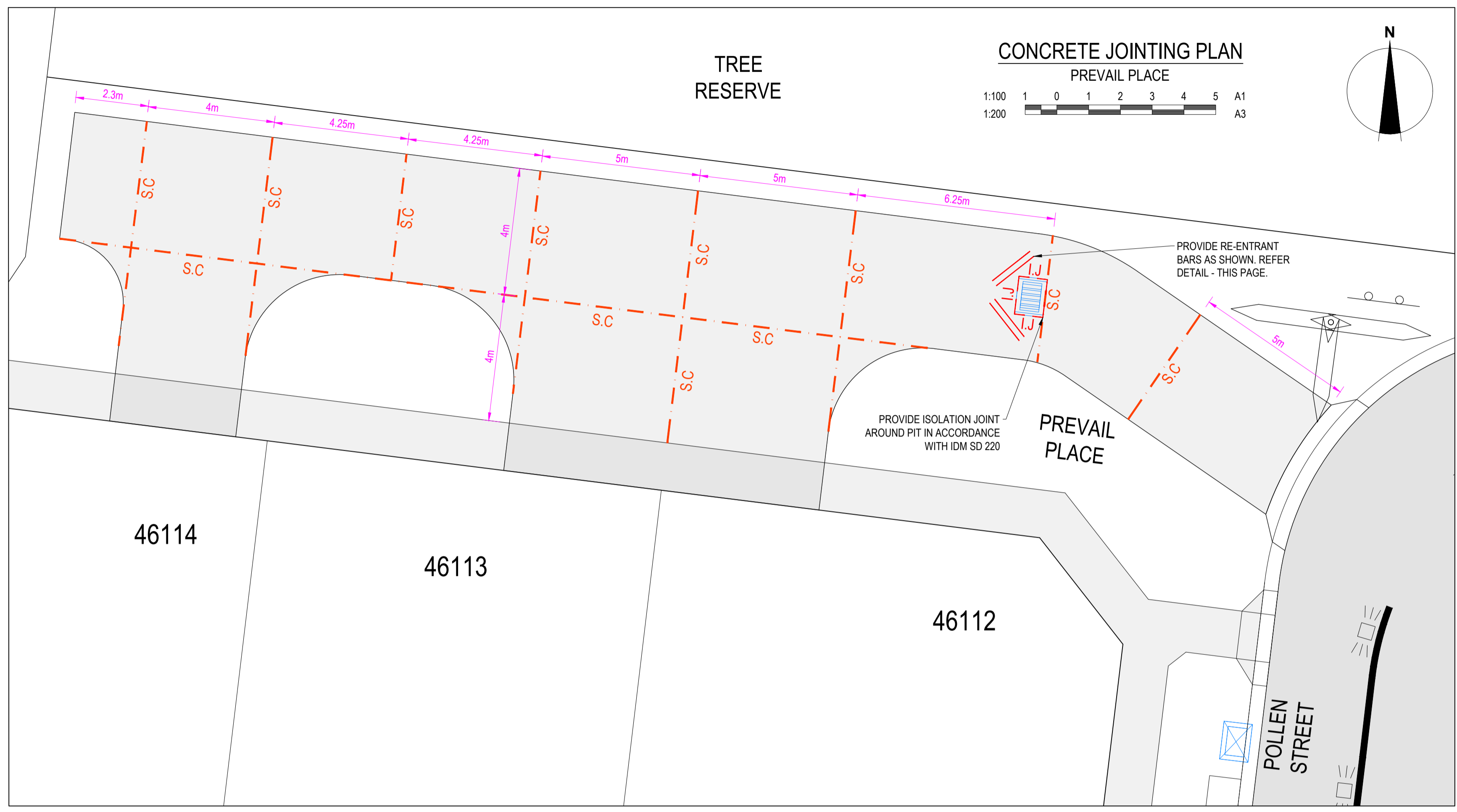
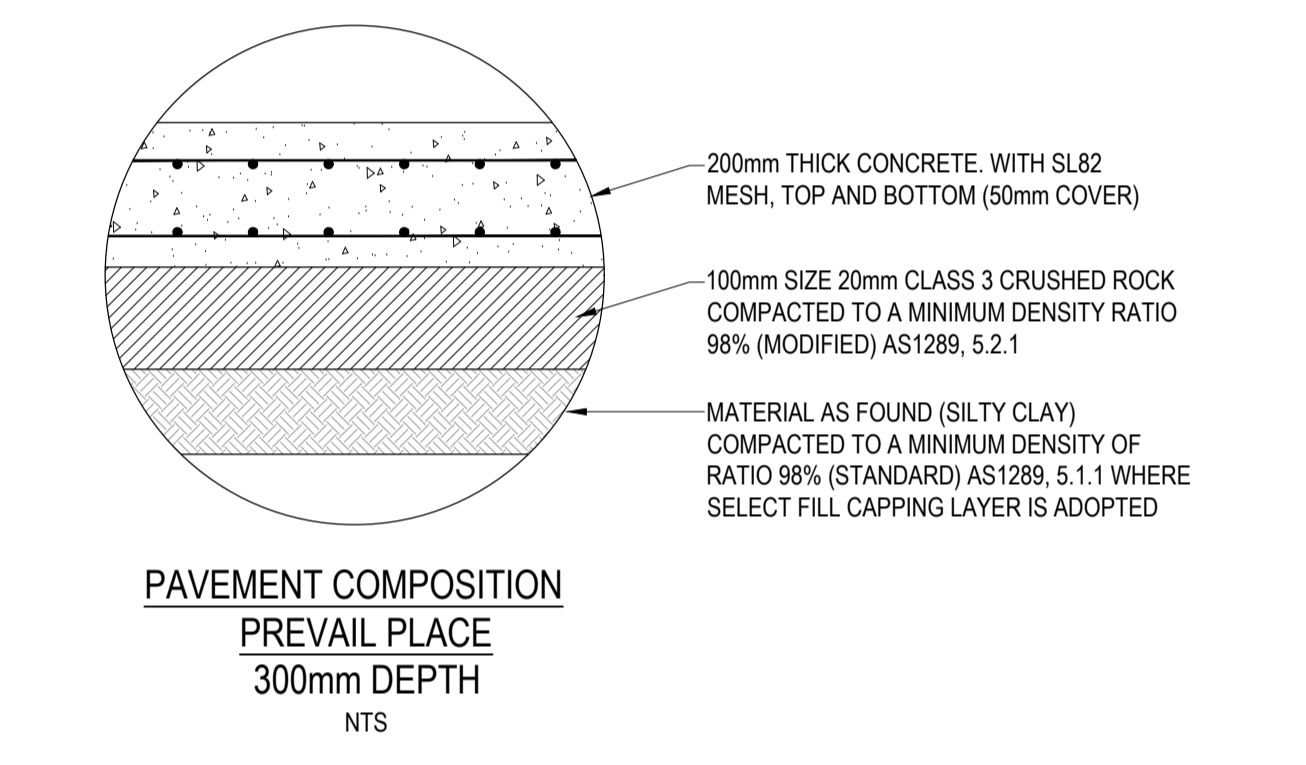
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REVISION 1

Certification No: 14920



NOTE:
 DETAIL PROVIDED IN ACCORDANCE WITH
 GEOTECHNICAL REPORT PREPARED BY
 TONKIN & TAYLOR DATED APRIL 2014.



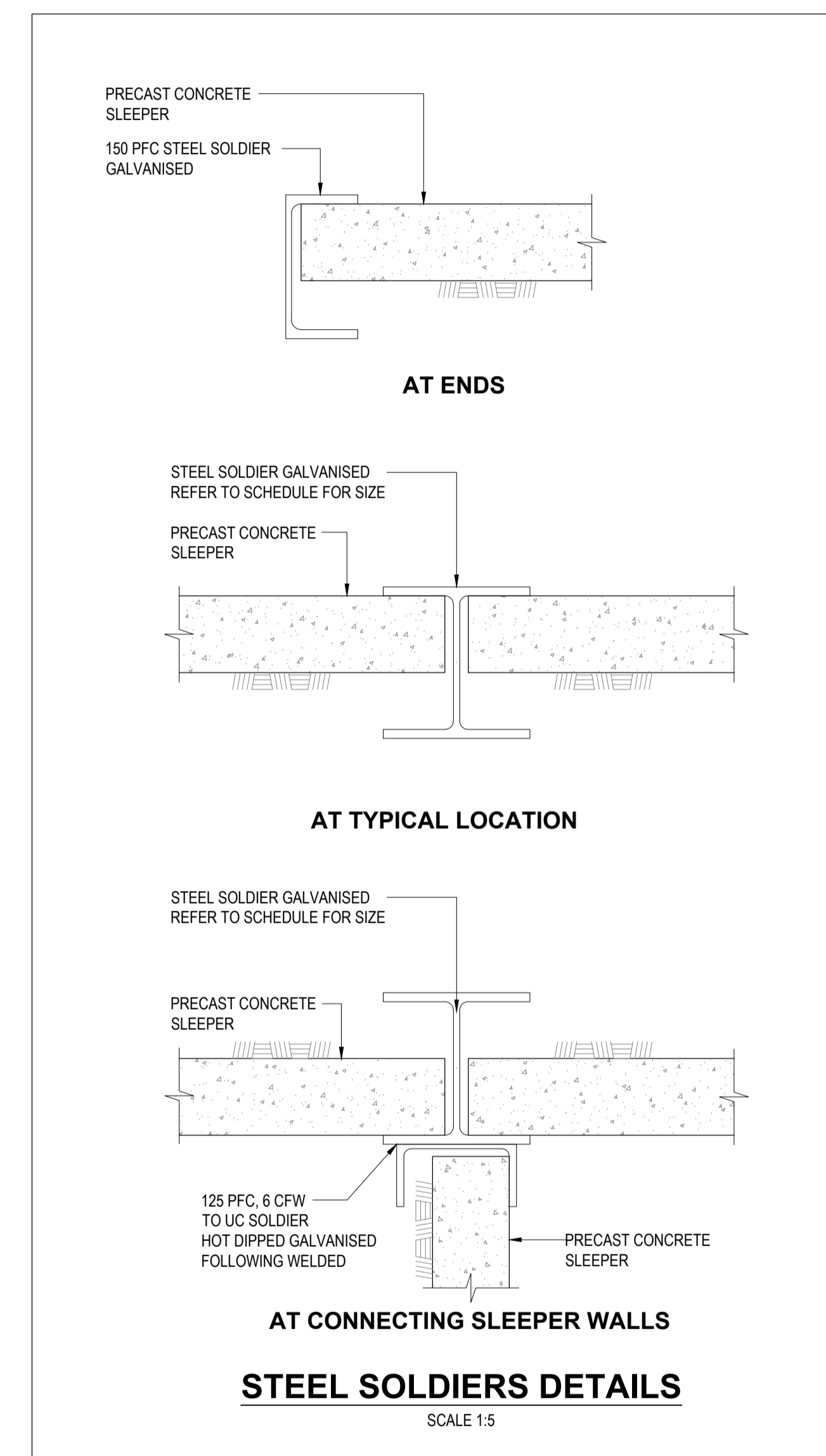
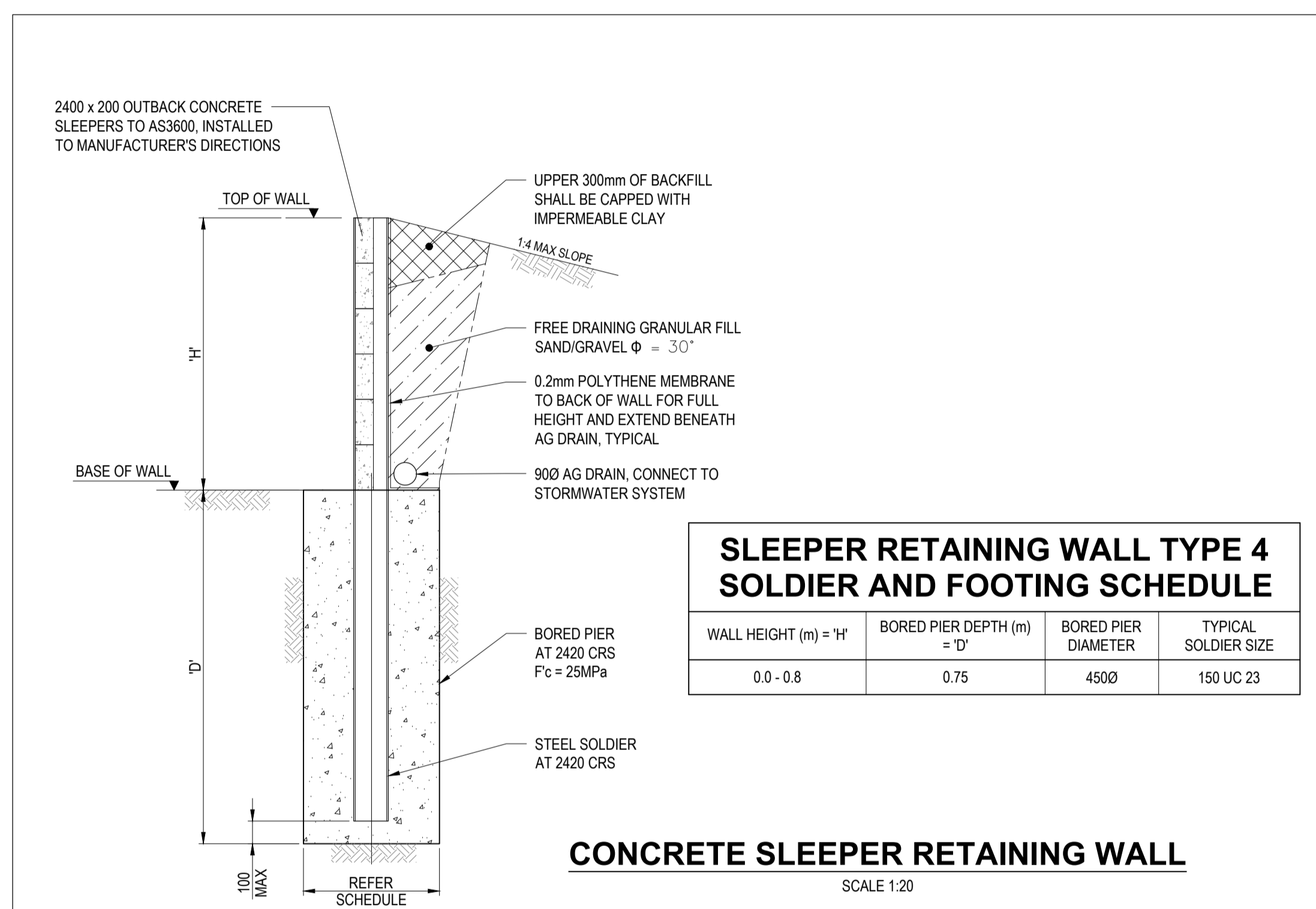
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	05/03/21	LOT NUMBERS REVISED	T.THOMAS	M.TROUNCE	T.PALIOS
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS



DRAWING TITLE
**ARMSTRONG - STAGE 46D
 TYPICAL SECTIONS & JOINTING
 PLAN**

STATUS
**ISSUED FOR
 CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R700	1



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT

Communities Designed for Living

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

PROJECT

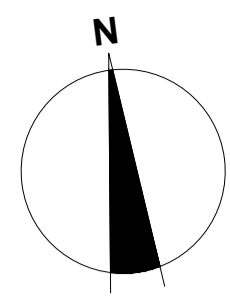
DRAWING TITLE

**ARMSTRONG - STAGE 46D
 TYPICAL SECTIONS**

STATUS

**ISSUED FOR
 CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R701	0



LINEMARKING & SIGNAGE NOTES:

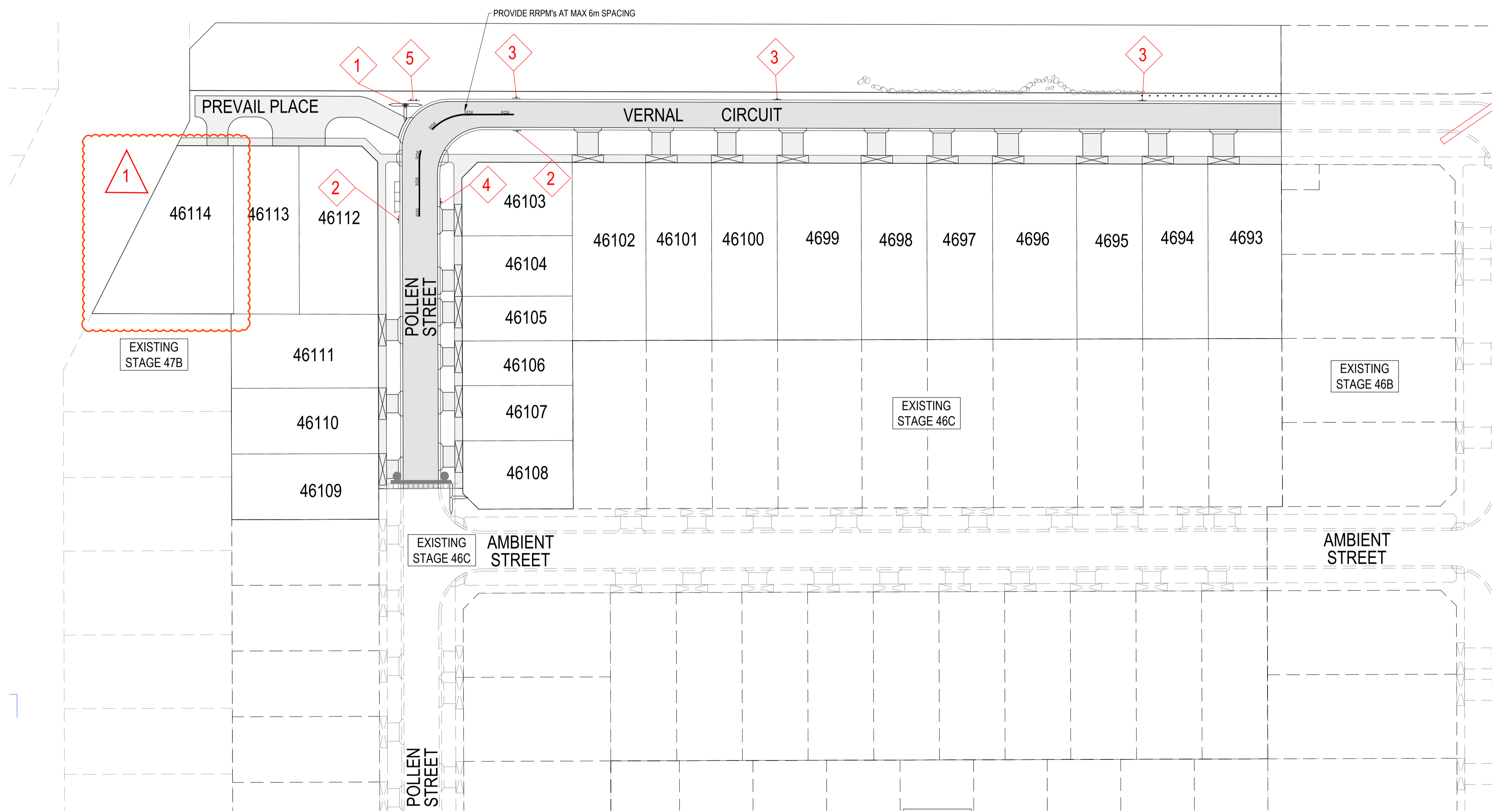
1. ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.1 AND AS 1742.2, UNLESS SPECIFICALLY SHOWN OTHERWISE.
2. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
3. LINEMARKING SET OUT SHALL BE INSPECTED AND APPROVED BY COUNCIL BEFORE FINAL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

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL
 GREATER GEELONG CITY COUNCIL
 PLANNING ENVIRONMENT ACT 1987
 GREATER GEELONG PLANNING SCHEME

Endorsed Plan
 Planning Permit No: PP-496-2012
 Sheet 11 of 12
 Approved By Daniel Cromberge
 Approved Date 26/04/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 14920

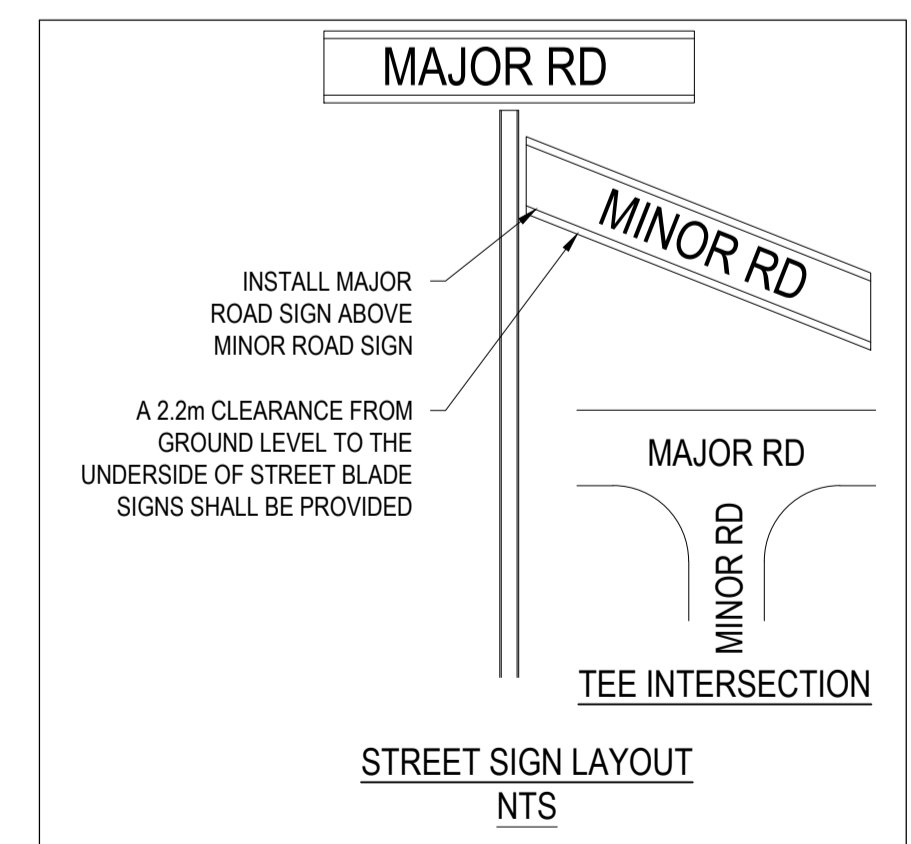


SIGN SCHEDULE

SIGN	REF	QUANTITY
	1	REFER TABLE
STREET SIGN		
	2	2No.
	3	3No.
	4	1No.
	5	1No.

STREET SIGN SCHEDULE

PREVAIL PL	1No.
POLLEN ST	1No.
VERNAL CCT	1No.



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	04/03/21	LOT 46114 ADDED			M.TROUNCE T.PALIOS
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

villawood properties
 Communities Designed for Living

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

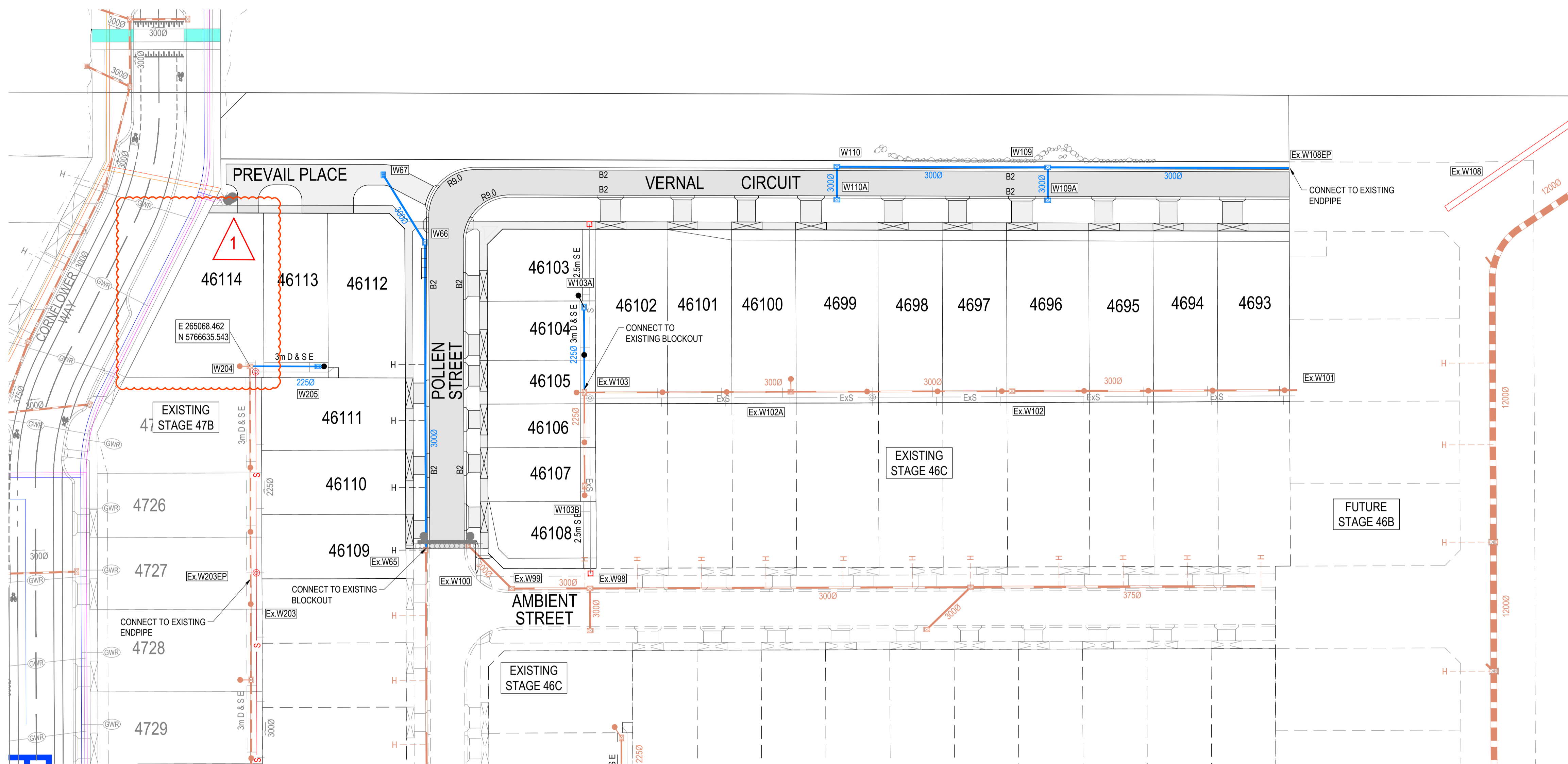
ARMSTRONG
 MT DUNEED

**ARMSTRONG - STAGE 46D
 SIGNAGE & LINEMARKING PLAN**

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R800	1

Certification No: 14920



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	05/03/21	LOT 46114 ADDED & LOT NUMBERS REVISED	T.THOMAS	M.TROUNCE	T.PALIOS
0	03/09/20	CONSTRUCTION ISSUE	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	26/06/20	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT

Communities Designed for Living

PROJECT

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

DRAWING TITLE

**ARMSTRONG - STAGE 46D
 DRAINAGE LAYOUT PLAN**

STATUS

**ISSUED FOR
 CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JUNE 2020
PROJECT No.	DRAWING No.	REVISION
180016.46D	R900	1