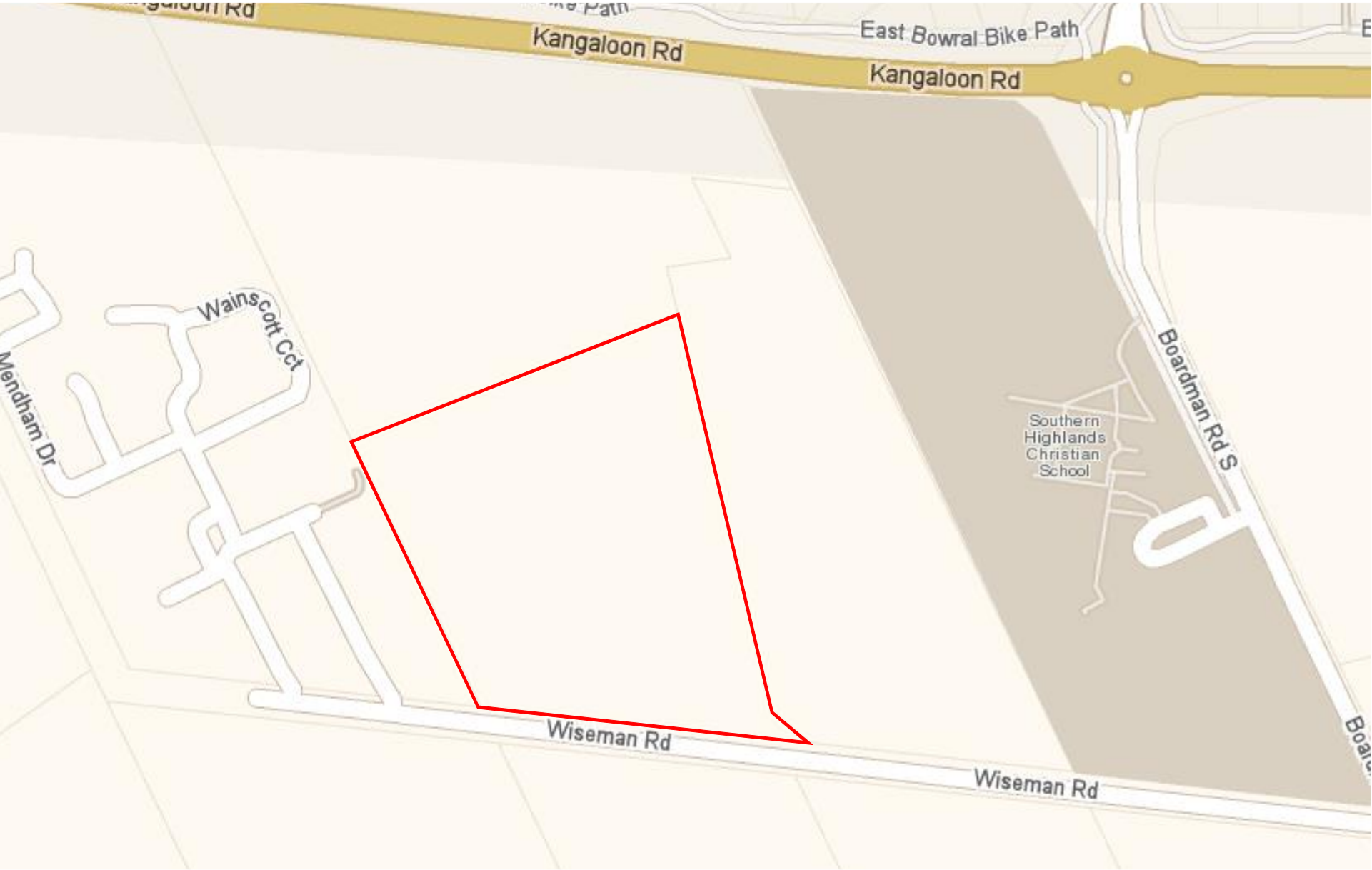


GENERAL DEVELOPMENT NOTES - TO BE APPLIED AS APPROPRIATE TO THE DEVELOPMENT

"PEPPERFIELD LIFESTYLE RESORT"
SENIORS LIVING DEVELOPMENT
LOT 4 DP829578
6 WISEMAN ROAD
BOWRAL. NSW. 2576



SCHEDULE OF DRAWINGS		
SHEET No.	DRAWING REFERENCE No.	DRAWING TITLE
1	0080420-01A	TITLE SHEET, GENERAL NOTES & LOCATION MAP
2	0080420-01B	EXISTING CONDITIONS SITE PLAN
3	0080420-01C	PROPOSED DEVELOPMENT & STAGING SITE PLAN
4	0080420-01D	SEWER SRAINAGE & WATER SERVICES SITE PLAN
5	0080420-01E	STORMWATER DRAINAGE & WATER QUALITY MANAGEMENT SITE PLAN
6	0080420-01F	CONCEPTUAL EROSION & SEDIMENT CONTOL SITE PLAN
7	0080420-01G	SEWER DRAINAGE DESIGN LONG SECTION DETAILS (1 of 3)
8	0080420-01H	SEWER DRAINAGE DESIGN LONG SECTION DETAILS (2 of 3)
9	0080420-01I	SEWER DRAINAGE DESIGN LONG SECTION DETAILS (3 of 3)
10	0080420-01J	STORMWATER DRAINAGE DESIGN LONG SECTION DETAILS (1 of 5)
11	0080420-01K	STORMWATER DRAINAGE DESIGN LONG SECTION DETAILS (2 of 5)
12	0080420-01L	STORMWATER DRAINAGE DESIGN LONG SECTION DETAILS (3 of 5)
13	0080420-01M	STORMWATER DRAINAGE DESIGN LONG SECTION DETAILS (4 of 5)
14	0080420-01N	STORMWATER DRAINAGE DESIGN LONG SECTION DETAILS (5 of 5)
15	0080420-01O	INTERNAL ROAD DESIGN LONG SECTION DETAILS (1 of 2)
16	0080420-01P	INTERNAL ROAD DESIGN LONG SECTION DETAILS (2 of 2)

GENERAL

- All Development Consent Conditions are to be fully complied with throughout the duration of the project.
- All work to be in accordance with the relevant Development Design Specification/s as prepared by Council and any industry standard, guideline, or best practice principles as directed by Council
- Inspections by Council's Development Control Engineers are to be undertaken at critical stages when directed within the Development Consent Conditions and where required by the document titled "Development Control summary of inspections, tests and documentation for subdivisions with Wingecarribee Shire Council".
- No work to be carried out on Council property or private property without the written permission of the owner. A copy of the written permission is to be sent to Council for its records
- All rubbish, buildings, sheds, undergrowth, and fences are to be removed from the site and road reserves to the satisfaction of Council's Development Control Engineer
- All trees to be removed shall be clearly marked on site and inspected by Council staff prior to removal - as stipulated in the Development Consent Conditions.
- Where excavation is required adjacent to trees, all roots shall be clean cut and treated by a qualified arborist. Certification by the arborist that works have been done in accordance with best practice will be required to be submitted to Council prior to issue of the Construction Certificate.
- Make smooth connection to all existing engineering work.
- All existing services to be located and levelled by the Contractor prior to the commencement of work.
- All services affected by new work to be adjusted in the field to the satisfaction of the relevant service authority
- The Contractor shall provide traffic control which complies with AS1742.3 – 2002. A copy of the plan showing layout of proposed traffic control for the commencement of work and certified by a suitably qualified person is to be submitted to Council prior to commencement of any work. Further plans are to be submitted if the work site alters.
- Any road restoration required shall be in 150mm layers of DGS 40 from the bottom of trench or top of sand overlay over any pipes, compacted to a minimum of 97% modified compaction with the final layer of 100mm of DGB 20 compacted to a minimum of 97% modified compaction and finished level with existing road surface.
- The Contractor shall maintain and/or restore any damage which may have been caused by the construction of the subdivision to the road pavement, roadside drainage or underground facilities in Council Road's which give access to the subdivision
- All disturbed areas are to be reinstated 'as near as possible' to the pre-development condition.

ROAD WORKS

- Final pavement thickness and testing requirements are to be in accordance with Council's Engineering Design Specification D06 'Pavement Design'
- Fill Areas:
 - All road and fill areas to be cleared of undergrowth and grass, topsoil to be removed and stockpiled on site for spreading on footpaths, batter areas, and other fill areas prior to completion.
 - All unsuitable material, as determined by Council's Engineer, to be removed and replaced by select material excavated on site
 - All filling to be controlled and inspected by Nata Registered Laboratory in accordance with Council's specifications, relevant Australian Standard and best accepted practice.
- All testing works shall be controlled and certified by Nata Registered Laboratory, copies of all test certificates clearly indicating the location of each test and laboratory's certificates covering the whole of the area tested are to be forwarded to Council.
- Conduits for electricity and telecommunications to be provided and placed as required.
- Service Conduits to be:
 - Placed as directed by the relevant supply authority and as required by Council's Development Engineer
 - Laid generally as specified by each relevant supply authority.
 - Backfilled with sharp course sand.
 - Extended minimum 300mm behind kerb
 - Laid prior to placement of final surfacing.
- Subsoil drains shall be provided as required by Council's Engineer and with reference to Council's Engineering Design Specification D07 'Subsurface Drainage Design'
- Batters and footpath to be top soiled to a minimum depth of 150mm.

FILLING AND SITE RE-GRADING

- Dams to be stripped of topsoil. All exposed silt and other unsuitable material shall be removed and disposed of as directed by the Engineer.
- Stripped area to be compacted to a depth of 200mm to a density not less than 95% standard maximum dry density. Fill material is to be placed in layers not more than 250mm thick loose measurement, following inspection of the stripped area by the Engineer.
- Inspection and testing of filled layers shall be carried out by qualified soils personnel and NATA Registered Soils Laboratory as follows:
 - Upon clean-up of base area
 - At the conclusion of placement of maximum 500mm of compacted fill (1 test / 100m²).
 - On completion of the works.
- A fill plan shall be prepared in accordance with the Development Design Specification D6 'Site Regrading' and submitted to the Council' Development Engineer in the form of Standard Drawing SD 133 for review and approval prior to the commencement of any works

RE-GRASSING

- All disturbed areas to be grassed (turfed or seeded) within 7 days of work being completed in that area.
- Channels to be topsoiled to a minimum depth of 150mm including application of lime, fertilizer and grass seed.
- Turf is to be placed a minimum 900mm wide behind all kerbs and concrete roadways.

CONCRETE

- Workmanship and materials to conform with the requirements of AS3600, formwork to be in accordance with AS1509
- Concrete strength to be grade 20, AS3600 (20MPa) throughout unless noted otherwise.
- Expansion joints shall be tool finished at 6m intervals in all pathways and dummy joints 20mm deep shall be struck at 1.2m intervals.
- Joint filler / sealant to be 10 thick 'and of an approved grade and performance criteria as instructed by Council's Development Engineer
- Crack control joints shall be tool finished at 4m intervals between expansion joints, 20mm deep.
- Placing: All concrete shall be mechanically vibrated, vibrators shall not be used to spread concrete.
- Inspection: Concrete shall not be placed until the completed falsework, formwork and reinforcement fixing have been inspected and approved by the Council' Development Engineer.

SERVICES

- Where existing drainage, sewerage and water services are to be relocated a plumber's permit & approval under Section 68 of the Local Government Act is required from Council prior to commencement of work.
- Upon completion of work, a 'Work as Executed Plan' is required.
- As necessary, all buried services to existing buildings that are to be made redundant are to be disconnected, made safe, and removed.

STORMWATER

- Kerb inlet pits to conform to Council's Engineering requirements and Standard Drawing SD112 as detailed (unless approved otherwise)
- Junction pits to conform to Council's Engineering requirements and Standard Drawing SD113 as detailed (unless approved otherwise)
- Inter-allotment drainage pits to conform to Council's Engineering requirements and Standard Drawing SD126 as detailed (unless approved otherwise)
- Pipes to be rubber ring jointed on bedding which complies with AS3725 and Council's Engineering Construction Specification C25 'Pipe Drainage' (unless approved otherwise).
- Lintels to be located centrally on sag pits unless otherwise shown.
- Provide step irons on all drainage pits deeper than 1.2m
- Backfill to all pipes in road reserve to comply with Council's Engineering Construction Specification C25 'Pipe Drainage' (unless approved otherwise).
- As required, the 1% AEP (100-Year ARI) overland flow paths must be formed and shown on the Work as Executed Drawings.
- All inter-allotment drainage lines that will not benefit Council are to be inspected and certified by an engineer or surveyor in accordance with Council's Engineering Design Specification Dog 'Stormwater Drainage Design' Clause 3.5
- All pipe joins in pits, headwalls and other drainage structures are to be mortared to prevent infiltration.

SEWER

- All works are to be carried out to the Council's Engineering Design Specification D13 'Sewer Systems - Reticulation & Pumping Stations', Council's 'Draft Pressure Sewer System Policy [3.2]' dated April 2015 (or any formalised version of the Draft document), the Water Services Association of Australia "Gravity Sewerage Code of Australia" WSA 02 - 2014, Third Edition Version 3.1 and "Pressure Sewer Code of Australia" WSA 07 - 2007 Version 1.1, and any other standard, guideline or best practice principle as directed by Council's Development Engineers.
- All sewer drainage installation works to comply with Council's Engineering Construction Specification C31 'Sewer Systems - Reticulation & Pumping Stations' as applicable (unless approved otherwise)
- All services and utilities are to be located by the relevant authorities prior to commencement of works.
- Council is to be notified 48 hours prior to commencement of works and for inspections.
- Junctions and sidelines are to be left open to allow work as executed inspection to be carried out prior to backfilling.
- All work to be inspected by Council prior to backfilling
- Sewer junctions to be marked with red polyethylene tape tied to the junction and a hardwood stake at ground level.
- Riser to be fitted to all sewer junctions and terminated approximately 500mm below surface where depth exceeds 1.2m
- Relevant fees to be paid for Council to undertake any junction cut-ins on existing mains.

WATER

- All works are to be carried out to the Council's Engineering Design Specification D12 'Water Supply - Reticulation & Pumping Station', and any other standard, guideline or best practice principle as directed by Council's Development Engineers.
- All water supply installation works to comply with Council's Engineering Construction Specification C30 'Water Supply - Reticulation & Pumping Station' (unless approved otherwise)
- All services are to be located by the relevant authorities prior to the commencement of works.
- Council to be notified 48 hours prior to commencement of works and for all inspections.
- Prior to backfilling, all work is to be inspected by Council and to allow work as executed inspections to be carried out.
- Water mains are to have a minimum depth of cover of 600mm in carriageways and 450mm in footpaths
- Contractor to ensure new main level matches the existing main adjacent to the cut-in point.
- Council to undertake main cut-in (unless approved otherwise). Contractor to pay relevant fees and provide all necessary fittings. All fittings used are to have factory applied corrosion protection and carry relevant Australian Standards mark.
- Contractor to pay relevant fees and submit application forms for Council to connect water services to existing mains.

EROSION AND SEDIMENT CONTROL

- All erosion and sedimentation control measures, including revegetation and storage of soil and topsoil, shall be implemented in accordance with the publication titled "Managing Urban Stormwater – Soils and Construction", Volume 1, (the 'Blue Book') Landcom (2004), and Council's Engineering Design Specification D11 'Control of Erosion & Sedimentation'
- Disturbance of vegetation shall be kept to a minimum by staging the development.
- All disturbed areas shall be revegetated as soon as the relevant works are completed
- Topsoil from all areas to be disturbed shall be stockpiled and later respread to aid revegetation. Topsoil stockpiles are to be no higher than 1.5 metres. The top 50-75mm (containing the bulk of the organic material should be stored separately from underlying soil and respread last. Minimum depth 100-125mm. Topsoil is not to be removed from site without Council's concurrence. Where appropriate, instead of stockpiling topsoil it can be pushed upslope of excavated areas so as to form a bank above the disturbed areas. These banks should be directed to discharge water to a stable point. All stockpiles and banks need to be seeded and fertilised with the recommended seed mix.
GRASS VARIETIES AND QUANTITIES KG / HA
Currie Cocksfoot 4
Victorian Ryegrass 5
Kangaroo Ryegrass 5
Karridale Sub Clover 2
Cajon Fescue 6
White Clover 3
Japanese Millet (if planted November to March) 8-10
Cereal Rye (if planted April to October) 10
Bitumen and straw mulch or equivalent mulch should be applied on areas with a slope greater than 1V:3H.
Straw should be applied at 5,000 kg / ha
* Fertiliser Grower 11, Starter 13 or 18, or equivalent 250-300kg / ha
* Fertiliser not to be used along or in watercourse
- Turf strips to be placed behind all newly constructed kerb and gutter within 7 days of completion of concreting. Minimum width 0.9m. In addition, extensions of turf at an angle of approx. 70° to kerb at intervals of 20m perpendicular to the kerb for a distance of 2m on steeper sections of road where there is a potential for water to concentrate along the end of the turf. If there is insufficient rain, supplementary water should be undertaken.
- All straw bales to be bound with wire. Straw bales to be placed end to end in a single row and embedded into the soil to a depth of 100mm. Each bale to be securely anchored with two steel stakes driven 500-750mm into the ground and located on the bale centreline. (Refer to Standard Drawing SD6-7 within the 'Blue Book')
- Filter fence to be constructed by stretching a filter fabric between posts at 2.0m centres. Fabric to be buried 200mm along its lower edge. Filter fence to be placed as near to the contour as possible. (Refer to Standard Drawing SD6-8 within the 'Blue Book')
- Wire mesh and gravel inlet filters to be provided at all kerb inlet pits. (Refer to Standard Drawing SD6-11 within the 'Blue Book')
- The capacity and effectiveness of runoff and sediment control measures shall be maintained at no less than 70% capacity at all times and to the satisfaction of Wingecarribee Shire Council
- All controls should be inspected at the end of each day and particularly before weekends and/or when the site is to be left for extended periods.
- To minimise soil erosion and sediment movement during construction, the following measures shall be implemented:
 - Removal and/or disturbance of vegetation shall be confined to within two (2) metres of the required works
 - Stockpiles of construction and landscaping materials, and of site debris shall be located clear of drainage lines and in such a position that they are protected from erosion and do not encroach upon any footpath, nature strip or roadway.
 - Vehicular access shall be controlled so as to prevent tracking of sediment onto adjoining roadways, particularly during wet weather or when the site is muddy. Sediment deposited on adjoining roadways shall be removed by means other than washing. All material shall be removed as soon as possible and the collected material shall be disposed of in a manner which will prevent its mobilisation
- All erosion and sediment control devices are to remain in position and be maintained until advised by Council's Development Engineer that they may be removed or until the 12 month maintenance period has lapsed.
- Refer to the site specific 'Erosion and Sediment Control Plan' for more detailed design, description and maintenance requirements.

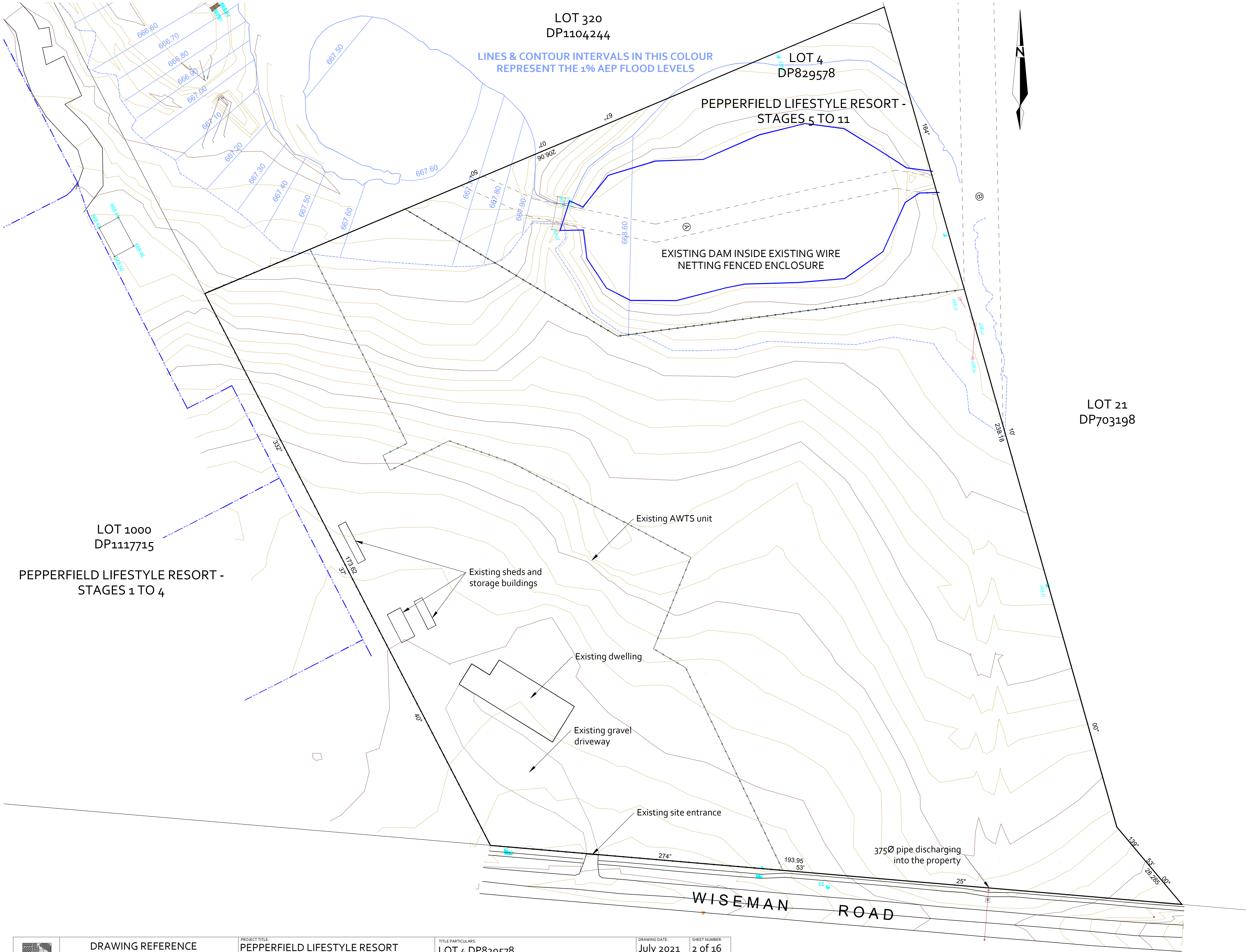
STORMWATER & WATER QUALITY

- All stormwater management provisions including detention, retention, conveyance and discharge are to be installed and commissioned in accordance with the recommendations of the Water Cycle Management Study report that accompanies this development, Council's relevant engineering standards, and any conditions of development consent.
- All stormwater treatment measures proposed for the development up to and including any works required to be completed prior to approval of subdivision are to be installed and commissioned in accordance with the recommendations of the Water Cycle Management Study report that accompanies this development.
- All stormwater quality improvement devices (SQID's) such as pits, pipes, upturns, biofiltration systems, dams, basins, ponds, water tanks, and any associated infrastructure used in the construction of the stormwater treatment measures are to be protected from potential physical damage by the installation of appropriate mechanisms such as bollards, fencing or barricades to the satisfaction of the consent authority and/or certifying engineer.
- All plants, grasses and ground covers sown as part of stormwater treatment measures are to be maintained and/or replaced until a satisfactory strike rate of at least 90%, or until such time as plants have established rigour and survivability. Particular attention is required for sowing plants during the hotter summer months, and when there will be no monitoring of the survivability of the plants for extended periods of time due to the likes of holidays or contractors moving on due to project completion.
- All construction checklists are to be completed with as much detail as appropriate for the development with a copy of the checklist to be presented to the development owner, Council, certifier, and a copy retained by the installer.
- Collect, retain and supply as many of the following sources of information and documentation to assist with the certification process of the stormwater treatment measures:
 - Delivery dockets for the supply of the prescribed filter media used in the biofiltration systems
 - Delivery dockets for the supply of other earth based materials used in the biofiltration systems
 - Delivery dockets for the supply of drainage pipes, pits, geofabric, EnviroPods, rainwater tanks, etc
 - Delivery dockets for the supply of plant material
 - Council / certifier inspection summaries related to stormwater drainage and pipe locations
 - Council / certifier inspection summaries (other)
 - Photographs of excavations, installation of drainage layers, pipes, filter media, filter cloth installation, rock mulch, any other relevant imagery
 - Diary notes of construction and installation works including any amendments or variations to the conceptual designs
 - Diary notes / signed acknowledgement of site inspections by certifier
 - Diary notes of phone conversations with designer, certifier, consent authority, WaterNSW, etc
 - Email communications related to the installation and construction of the SQID's

DRAWING REFERENCE				PROJECT TITLE		TITLE PARTICULARS		DRAWING DATE:	SHEET NUMBER:
 P.O. Box 509 Goulburn, NSW, 2580 E: sowdes@sowdes.com M: 0431 885 401	REGION	DETAILS	REVISION DATE:	PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT		LOT 4 DP829578		July 2021	1 of 16
	A	ISSUE FOR SUBMISSION	01/07/2021	DRAWING TITLE:		STREET ADDRESS:		REFERENCE NUMBER: 0080420	DRAWN BY: PJ
				TITLE SHEET, LOCATION MAP & GENERAL NOTES		6 WISEMAN ROAD BOWRAL. NSW. 2576		DRAWING SCALE:	SHEET SIZE: A1
								DRAWING REFERENCE NUMBER: 0080420-01A	

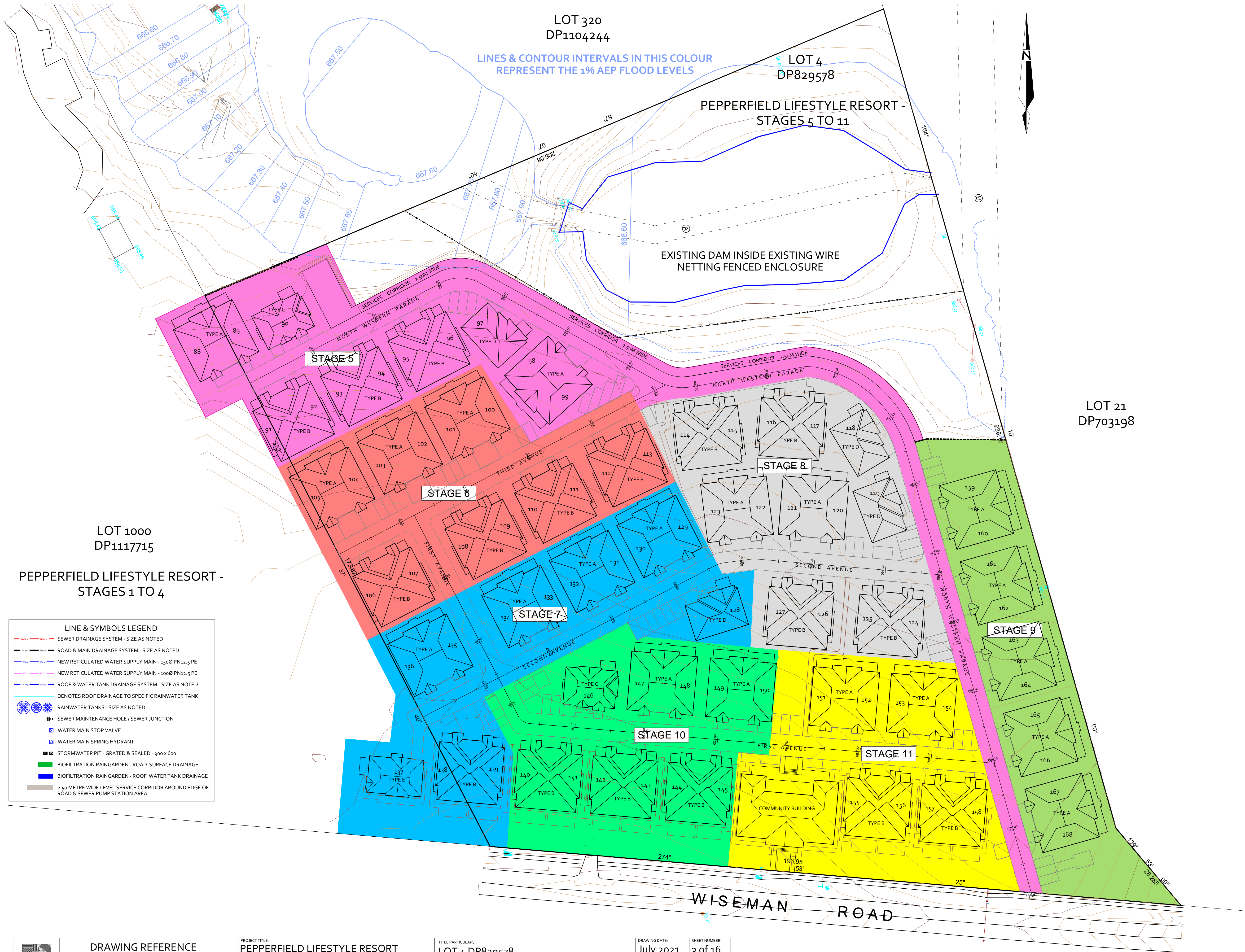
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 P.O. Box 619 Goulburn NSW 2580 E: sowedes@sowedes.com M: 0438 963 405	DRAWING REFERENCE		PROJECT TITLE: PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT	TITLE PARTICULARS: LOT 4 DP829578	DRAWING DATE: July 2021	SHEET NUMBER: 2 of 16
REVISION	DETAILS	REVISION DATE	DRAWING TITLE:	STREET ADDRESS:	REFERENCE NUMBER:	DRAWN BY:
A	ISSUE FOR SUBMISSION	01/07/2021	EXISTING CONDITIONS SITE PLAN	6 WISEMAN ROAD BOWRAL. NSW. 2576	0080420	PJ
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					0080420-01B	

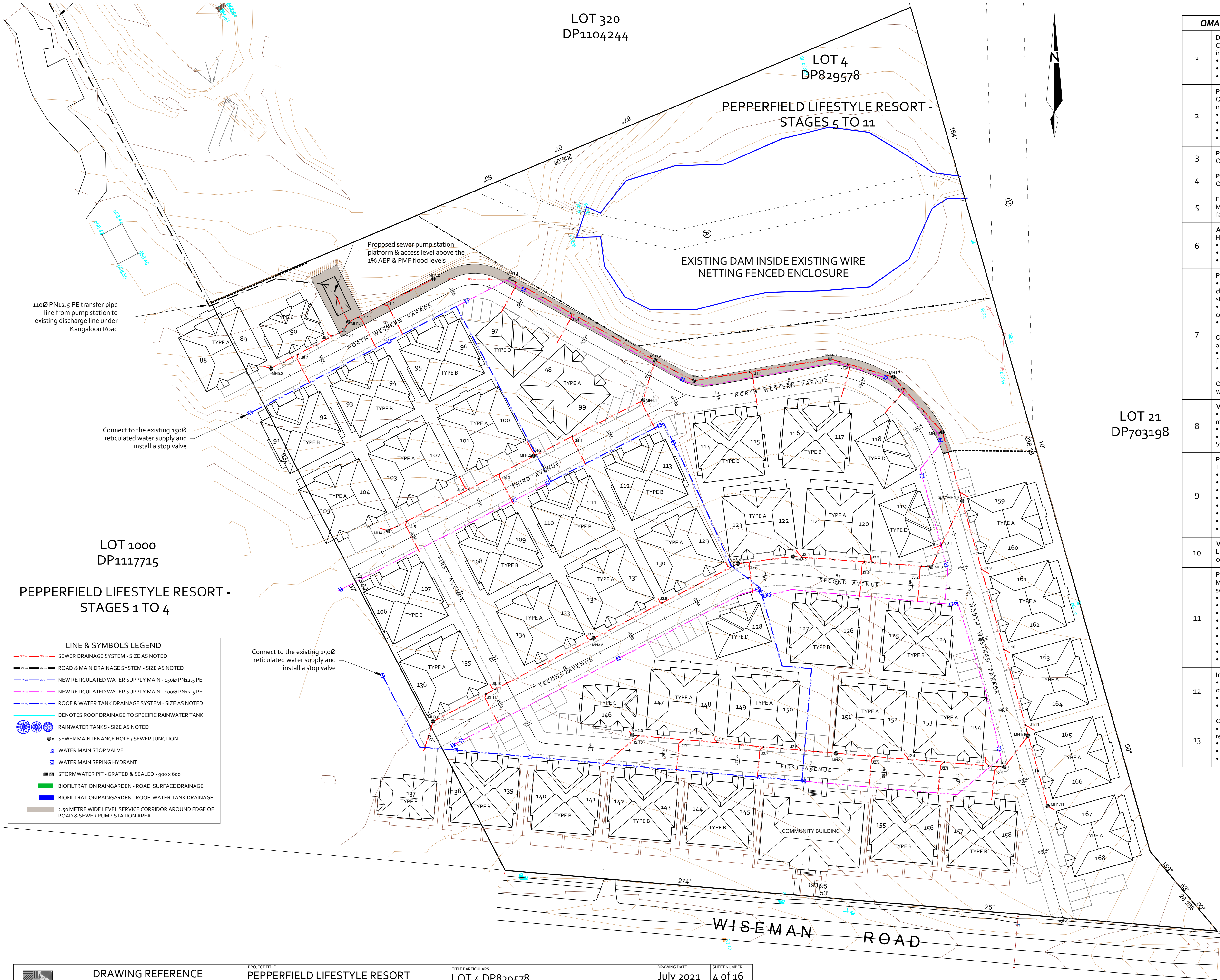
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LINE & SYMBOLS LEGEND		
	SEWER DRAINAGE SYSTEM - SIZE AS NOTED	
	ROAD & MAIN DRAINAGE SYSTEM - SIZE AS NOTED	
	NEW RETICULATED WATER SUPPLY MAIN - 150Ø PN12.5 PE	
	NEW RETICULATED WATER SUPPLY MAIN - 100Ø PN12.5 PE	
	ROOF & WATER TANK DRAINAGE SYSTEM - SIZE AS NOTED	
	DENOTES ROOF DRAINAGE TO SPECIFIC RAINWATER TANK	
	RAINWATER TANKS - SIZE AS NOTED	
	SEWER MAINTENANCE HOLE / SEWER JUNCTION	
	WATER MAIN STOP VALVE	
	WATER MAIN SPRING HYDRANT	
	STORMWATER PIT - GRATED & SEALED - 900 x 600	
	BIOFILTRATION RAINGARDEN - ROAD SURFACE DRAINAGE	
	BIOFILTRATION RAINGARDEN - ROOF WATER TANK DRAINAGE	
	2.50 METRE WIDE LEVEL SERVICE CORRIDOR AROUND EDGE OF ROAD & SEWER PUMP STATION AREA	

DRAWING REFERENCE			PROJECT TITLE:	TITLE PARTICULARS:	DRAWING DATE:	SHEET NUMBER:
	REGION:	DETAILS:	PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT	LOT 4 DP829578	July 2021	3 of 16
	A	ISSUE FOR SUBMISSION			REFERENCE NUMBER: 0080420	DRAWN BY: PJ
			DRAWING TITLE:	STREET ADDRESS:	DRAWING SCALE:	SHEET SIZE:
			PROPOSED DEVELOPMENT & STAGING SITE PLAN	6 WISEMAN ROAD BOWRAL. NSW. 2576	1:500	A1
					DRAWING REFERENCE NUMBER: 0080420-01C	

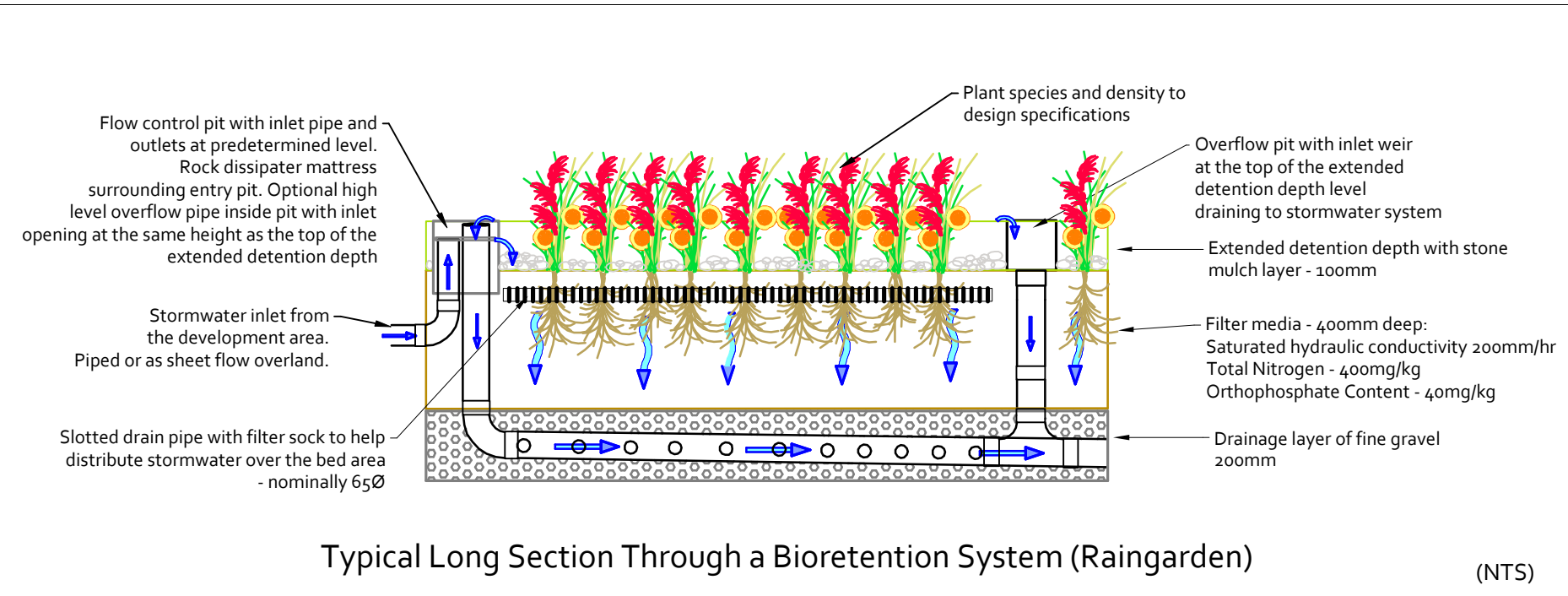
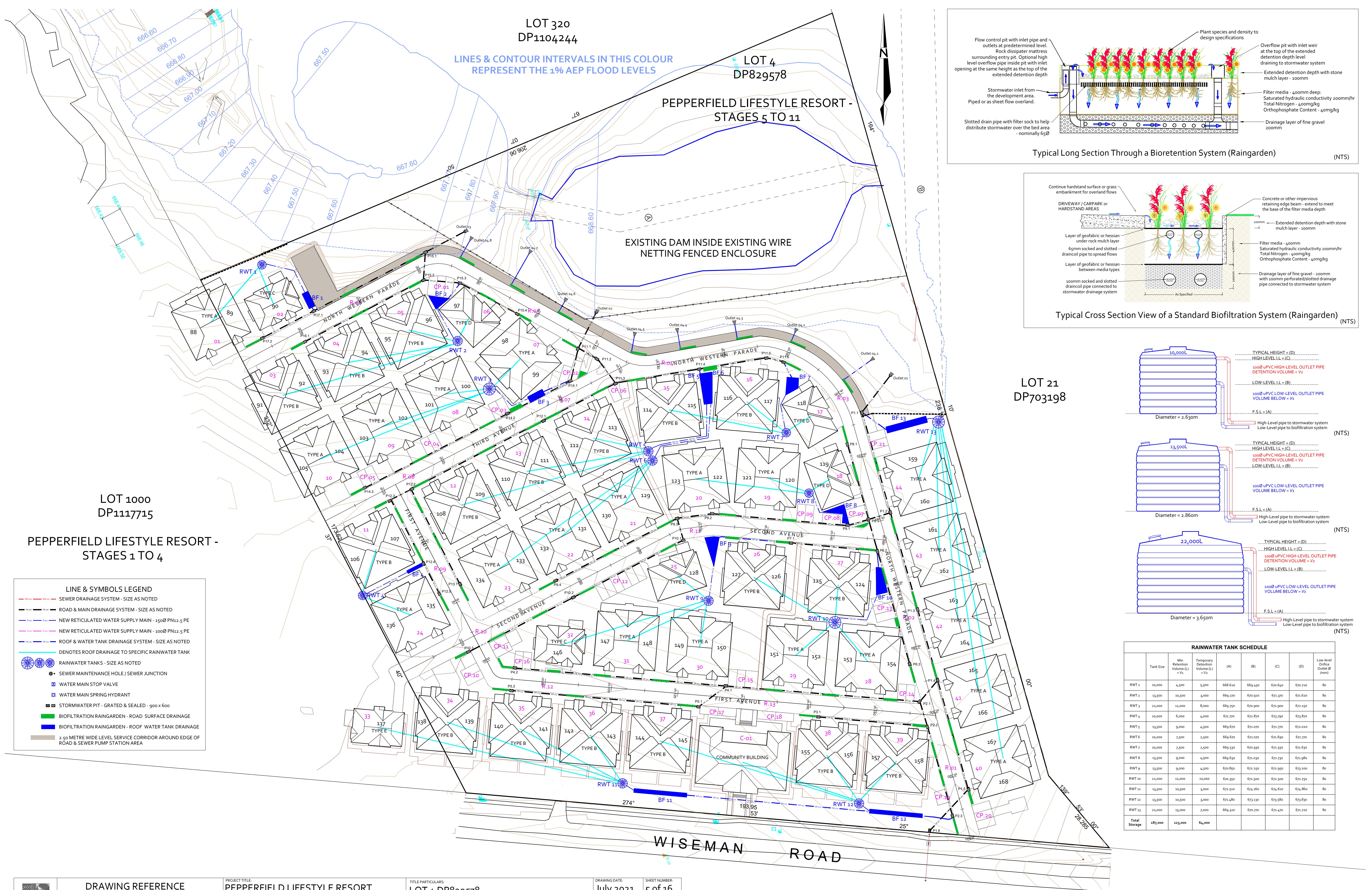
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QMAX PUMPING SYSTEMS - SEWER PUMP STATION DESIGN DETAILS	
1	Design: Construction documentation for the Pump Station for submission to council for approval, including: - Pump station sizing and pump selection reports based on NSW PWD sewer design data - Structural drawings and engineering certification - Anti-buoyancy and backfill calculations
2	Precast concrete pump well: Q-Max QPPL-5000 precast concrete pump well, 2250 mm internal diameter x 5050 mm depth, including: - Minimum 50 Mpa, smooth mould finish, calcareous aggregate. - Base unit is single moulded unit 1790 mm deep with inbuilt sludge batter and external toe. - Engineered to counter buoyancy forces for full external water inundation to surface level. - Sized to accommodate emergency storage of up to hrs @ ADWF
3	Precast concrete valve chamber: Q-Max precast concrete integral valve chamber 1500 mm wide x 1500 mm long x 1130 mm deep.
4	Precast concrete cover slab: Q-Max precast cover slab, 2500 mm wide x 4500 mm long x 250 mm thick.
5	Epoxy coating: Megapoxy MC epoxy coating to internal surfaces of concrete pump well, applied in factory-controlled conditions to manufacturers recommendations.
6	Access covers: Hinged and lockable aluminium access covers with two-sided safety grates, class B. - Pump well: 1050 x 810 mm clear opening - Valve chamber: 1050 x 810 mm clear opening - Access covers supplied preinstalled into precast cover slabs
7	Pipework: - DN90 fabricated HDPE class PN16, grade PE100 pump discharge pipework and valve chamber manifold. Includes all associated couplings, stainless steel bolts, rubber gaskets, 316 stainless steel support brackets and stands. - Emergency bypass pump out tee in valve chamber, with stainless steel camlock fitting for connection of pump out, including resilient seated gate valve. - Main gravity inlet: One of DN150 x 1.0 mtr long epoxy coated DICL FL-SP gravity inlet pipe piece with weep flange and universal coupling. - Valve chamber drain: DN50 uPVC drain pipe between valve chamber and pump well. Frog flap valve - Inlet valve dropper tee: One of DN160 fabricated HDPE dropper tee to inside knifegate valve, including stainless steel wall support bracket as required.
8	Valves & fittings: - Dual AVK DN80 resilient seated check and gate valves, flanged and epoxy coated, to be mounted in the integral valve chamber - Adjustable, stainless steel valve supports. - One of DN150 316 Stainless Steel resilient seated knifegate valve to inlet pipe, including 316 Stainless steel spindle to surface, with required wall bracket/s and slab coring
9	Pumps: Two of duty/standby SULZER XFP80C submersible wastewater pumps, each complete with: 2.2 kW 415V submersible motor - DN80 discharge bends 20 mtr Submersible Standard power cables - Stainless Steel cable stockings - Stainless steel guiderails - Upper guiderail brackets - Stainless steel pump lifting chains and D shackles - Stainless Steel hooks for chains and cables to side of access opening
10	Vent: Low level stainless steel vent enclosure, mounted to cover slab, with carbon odour filter and connecting 100 UPVC Pipe to pump well.
11	Pump station control: Manufacture, delivery and installation of a freestanding steel plinth mounted pump control switchboard, including: - Powdercoated steel enclosure - MCCB's - Programmable HMI controller - Pump DOL starters - Well level indicators - Overloads - Alarm contacts - Strobe light and protective shield - Level sensing transducer and back up float switches
12	Installation: - Installation of pump well including crane hire, into excavation that has been prepared by others, - Installation of pumps, guiderails, pipework, valves, vent. - Installation of control panel and level controls
13	Commissioning: - Commissioning after completion, including pre-commissioning checklists, commissioning reports, - ITP's - WAE drawings - Operation and maintenance manuals

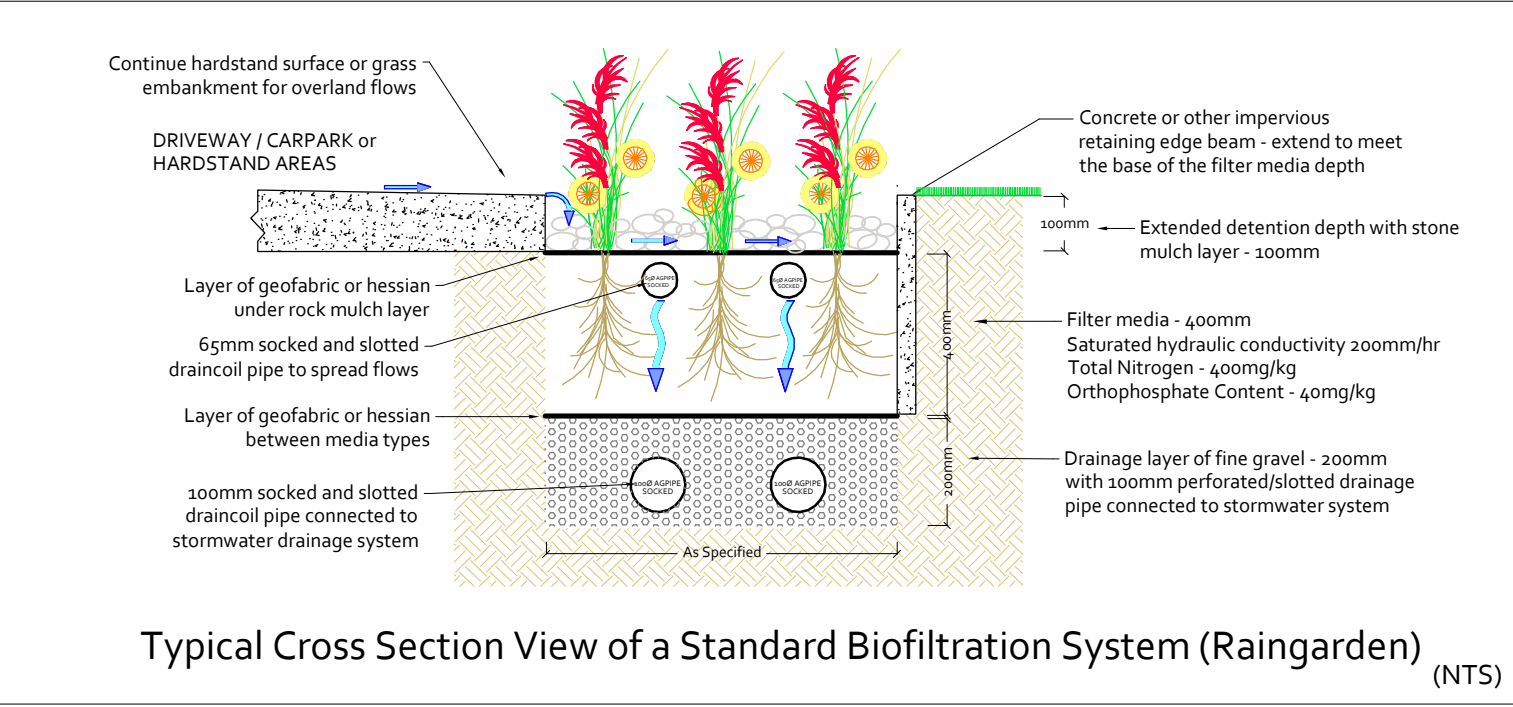
DRAWING REFERENCE			PROJECT TITLE:	TITLE PARTICULARS:	DRAWING DATE:	SHEET NUMBER:
REVISION	DETAILS	REVISION DATE:	PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT	LOT 4 DP829578	July 2021	4 of 16
A	ISSUE FOR SUBMISSION	01/07/2021			REFERENCE NUMBER: 0080420	DRAWN BY: PJ
			DRAWING TITLE:	STREET ADDRESS:	DRAWING SCALE:	SHEET SIZE:
			SEWER DRAINAGE & WATER SERVICES SITE PLAN	6 WISEMAN ROAD BOWRAL. NSW. 2576	1:500	A1
					DRAWING REFERENCE NUMBER:	
					0080420-01D	

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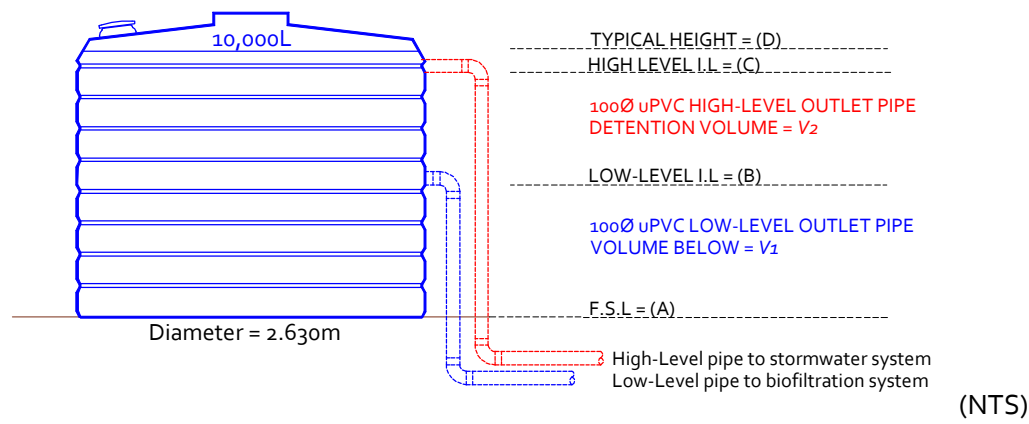
Typical Long Section Through a Bioretention System (Raingarden)

(NTS)

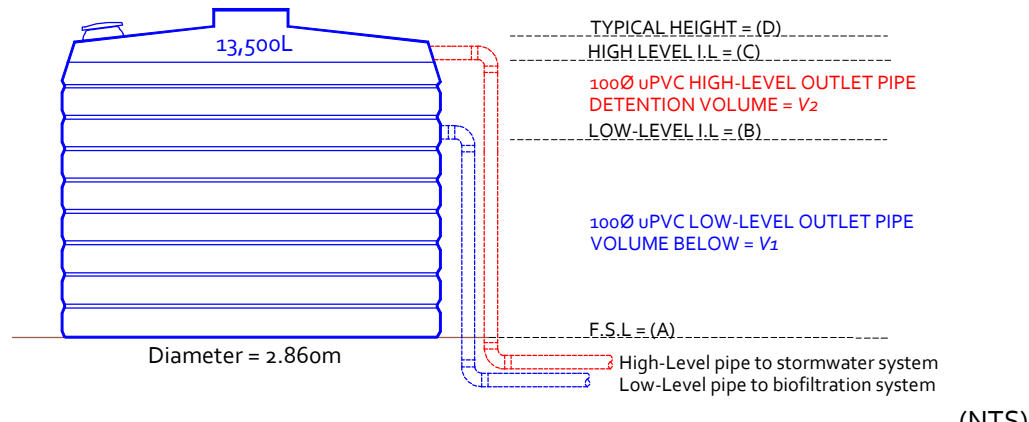


Typical Cross Section View of a Standard Biofiltration System (Raingarden)

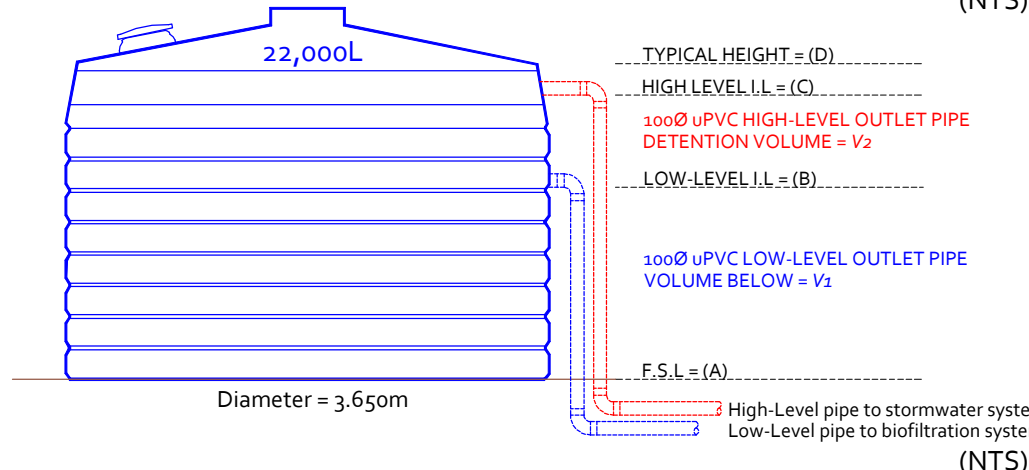
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(NTS)

RAINWATER TANK SCHEDULE									
	Tank Size	Min Retention Volume (L) = V1	Temporary Detention Volume (L) = V2	(A)	(B)	(C)	(D)	Low-level Circle Outlet Ø (mm)	
RWT 1	10,000	4,500	5,500	668.630	669.450	670.640	670.720	80	
RWT 2	13,500	10,500	3,000	669.370	670.920	671.370	671.620	80	
RWT 3	22,000	12,000	8,000	669.750	670.900	671.900	672.150	80	
RWT 4	10,000	6,000	4,000	671.770	672.870	673.790	673.870	80	
RWT 5	13,500	9,000	4,500	669.670	671.070	671.770	672.020	80	
RWT 6	10,000	7,500	2,500	669.670	671.070	671.590	671.770	80	
RWT 7	10,000	7,500	2,500	669.530	670.930	671.550	671.630	80	
RWT 8	13,500	9,000	4,500	669.630	671.030	671.730	671.980	80	
RWT 9	13,500	9,000	4,500	670.850	672.150	672.950	673.200	80	
RWT 10	22,000	12,000	10,000	670.350	671.500	671.500	671.750	80	
RWT 11	13,500	10,500	3,000	671.510	671.160	671.610	671.860	80	
RWT 12	13,500	10,500	3,000	671.480	673.130	673.580	673.830	80	
RWT 13	22,000	15,000	7,000	669.330	670.770	671.470	671.720	80	
Total Storage	187,000	123,000	64,000						

P O Box 619
Gulburn NSW 2580
E: sowedes@sowedes.com
M: 0428 883 401

DRAWING REFERENCE

REVISION	DETAILS	REVISION DATE
A	ISSUE FOR SUBMISSION	01/07/2021

PROJECT TITLE:

PEPPERFIELD LIFESTYLE RESORT
SENIORS LIVING DEVELOPMENT

DRAWING TITLE:

STORMWATER DRAINAGE & WATER
QUALITY MANAGEMENT SITE PLAN

TITLE PARTICULARS:

LOT 4 DP829578

STREET ADDRESS:

6 WISEMAN ROAD
BOWRAL. NSW. 2576

DRAWING DATE:

July 2021

REFERENCE NUMBER:

0080420

DRAWING SCALE:

1:500

DRAWING REFERENCE NUMBER:

0080420-01E

SHEET NUMBER:

5 of 16

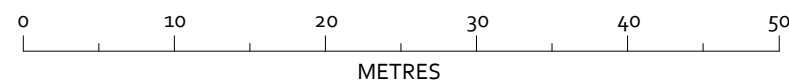
DRAWN BY:

PJ

SHEET SIZE:

A1

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 SOWDES P.O Box 659 Goudburn NSW 2580 E: sowdes@sowdes.com M: 0438 865 401	DRAWING REFERENCE			PROJECT TITLE: PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT	TITLE PARTICULARS: LOT 4 DP829578	DRAWING DATE: July 2021	SHEET NUMBER: 6 of 16
	REGION:	DETAILS:	REVISION DATE:			REFERENCE NUMBER: 0080420	DRAWN BY: PJ
	A	ISSUE FOR SUBMISSION	01/07/2021	DRAWING TITLE: CONCEPTUAL EROSION & SEDIMENT CONTROL SITE PLAN	STREET ADDRESS: 6 WISEMAN ROAD BOWRAL. NSW. 2576	DRAWING SCALE: 1:500	SHEET SIZE: A1
						DRAWING REFERENCE NUMBER: 0080420-01F	

Site pre-works and establishment

- Establish a stabilised site access in accordance with Standard Drawing SD6-14 through the existing gateway along the southeastern boundary of the site adjacent to where 'North Western Parade' will junction off Wisemans Road – avoiding damage to the existing stormwater pipe that discharges into the site.
- Prior to the commencement of any works install sediment control barriers in accordance with Standard Drawing SD6-8 along the lower side of the new road formation adjacent to the dam in the northern quarter of the site and below proposed Units 88 to go and erect exclusion fencing with signs to prohibit access to the dam. There must be no storage of materials or stockpiles established beyond the exclusion fencing.
- Install a row of straw bales in accordance with Standard Drawing SD6-7 below the sediment control fencing on the above point as a secondary means of sediment control for protection of the dam and associated drainage system
- Install sediment control barriers in accordance with Standard Drawing SD6-8 along the eastern aspect of the new internal road where the future Stage 3 works will be undertaken and retain until such time as the Stage 3 works commence at which time the sediment control barriers should be pushed to the eastern boundary fence line.
- Determine and define work areas for the construction and installation of the various stormwater quality improvement devices (SQID's) and create a clear separation from the main traffic streams
- Determine the location for a works compound and separate stockpile areas for topsoil and excavated spoil within the higher elevations of the site, form the stockpiles in accordance with Standard Drawing SD4-1 and line the lower side of each stockpile with barrier fencing in accordance with Standard Drawing SD6-8.
- Determine a site for the placement of general rubbish and the delivery of associated materials to the site – in particular the supply of the soils and earth based fill media materials and line the lower side of each site with barrier fencing in accordance with Standard Drawing SD6-8.
- As much as possible and practical limit the amount of delivered soil based materials to quantities that can be installed at one time to avoid the need for stockpiling
- Check and maintain the condition of all sediment control fences and other measures until all works associated with the development are completed, and be prepared to stop all works on short notice if there is a possibility that the water level in the dam will rise close to the 3% AEP flood level.

Construction phase – Commencing with Stage 5 (being the first stage within the site) and the first part of the new internal road system – North Western Parade

- Maintain and continue to use the established stabilised site access across off Wiseman Road for the duration of the staged works – even after the formation of North Western Parade is complete
- Remove all fences, trees and any other obstructions within the alignment of the new road, Unit buildings, and sewer pump station and immediately remove off site to an approved repository
- Remove all topsoil and excess soil from the alignment of the road and adjoining inground services and stockpile for later reuse or removal off site
 - Undertake all site levelling and/or regrading to establish the base levels and profiles for the new road, Unit buildings, and support area around the new sewer pump station
 - Install all underground pipes, pits, and junctions associated with the installation of reticulated potable and irrigation water supplies, stormwater and sewer drainage services (including the drainage for the biofiltration raingardens systems), and all utilities within and adjacent to the road formation and leading into the individual Unit buildings and cap-off or terminate so as to not cause nuisance and protect from possible damage
 - Once the alignment of the road is formed and the relevant stormwater pits are installed adjacent to the new road to the design specifications protect the inlets from sediment ingress in accordance with Standard Drawing SD6-12 and undertake until all roadworks are completed
 - Retain until all major earthworks associated with the northern portion of the site, particularly the sewer pump station and any other services required to be extended or undertaken below the northern aspect of the new road before laying the concrete finish to the formation to prevent possible damage.
- During trenching associated with the installation for the rising main from the new sewer pump station ensure that sediment control barriers in accordance with Standard Drawing SD6-8 are installed along the eastern boundary of 8 Wiseman Road between the pump station and the drainage causeway, and on the northern side of the drainage causeway until the works have extended past the rise in the terrain – consideration should be given to installing the section of rising main across the causeway using trenchless technology.
 - Once the new section of internal road is finished being laid and is cured construct the roadside biofiltration raingardens to the design specifications – including perimeter borders, planting, and rock mulch cover, and provide bollards or other suitable means of protection along the edges of the road to prevent vehicles damaging the systems.
 - Construct the Unit buildings to their design specifications including the provision of rainwater tanks and biofiltration raingardens to treat the overflow and undertake landscaping around the footprints of the Unit buildings to the design details.
 - Once all construction works and landscaping are completed, and any disturbed vegetation on the lower northern side of the road formation has an effective cover of 90% then remove the sediment control barriers along the northern boundary and along the high side of the dam
 - After all earthworks within Stage 5 are completed remove any excess spoil, topsoil, rubbish and/or general materials from the site to an approved repository.
 - Retain the stockpiles area designated for the delivery of material and excess spoil in the higher elevations of the site and use for the subsequent stages of the development.

Construction phase – Subsequent Stages and new internal roads

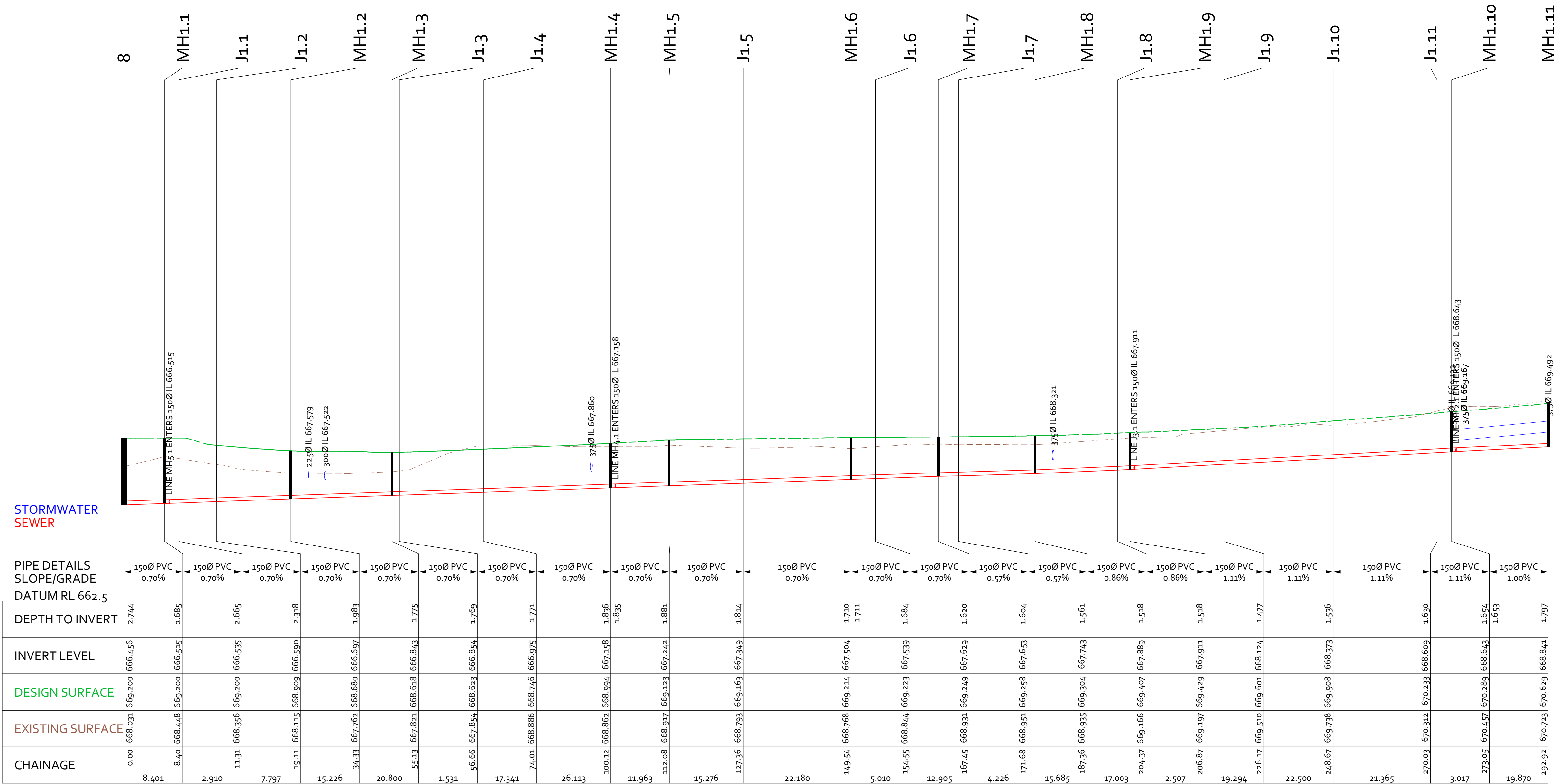
- Maintain and continue to use the established stabilised site access created off Wiseman Road until the final works are completed in Stage 11
- Install perimeter fencing and sediment control barriers in accordance with Standard Drawing SD6-8 against the edge of the previous Stage's work area and maintain until the individual Stages of work are complete
- When work commences on Stage 9 ensure that the eastern boundary fence is lined with sediment control barrier in accordance with Standard Drawing SD6-8 and retain until all earthworks and construction is completed
- Remove all trees, fences and any other obstructions within the alignment of the new roads and Unit buildings, and immediately remove off site to an approved repository
- Remove all topsoil and excess soil from the alignment of the roads and adjoining inground services and stockpile for later reuse or removal off site
- Undertake all site levelling and/or regrading to establish the base levels and profiles for the new roads and Unit buildings
- Install all underground pipes, pits, and junctions associated with the installation of reticulated potable and irrigation water supplies, stormwater and sewer drainage services (including the drainage for the biofiltration/raingardens systems), and all utilities within and adjacent to the road formations and leading into the individual Unit buildings and cap-off or terminate so as to not cause nuisance and protect from possible damage
 - Once the alignment of each section of road for the individual Stages is formed and the relevant stormwater pits are installed adjacent to the road to the design specifications protect the inlets from sediment ingress in accordance with Standard Drawing SD6-12 and retain until all roadworks are completed
 - Once each new section of internal road is finished being laid and is cured construct the roadside biofiltration/raingardens to the design specifications – including perimeter bordering, planting, and rock mulch cover and provide bollards or other suitable means of protection along the edges of the road to prevent vehicles damaging the systems.
- Construct the Unit buildings for the Stage to their design specifications including the provision of rainwater tanks and biofiltration raingardens to treat the overflow and undertake landscaping around the footprints of the Unit buildings to the design details.
- Once all construction works and landscaping are completed remove any perimeter fence system and sediment control barriers
- After all earthworks within the individual Stages are completed remove any excess spoil, topsoil, rubbish and/or general materials from the site to an approved repository.
- Retain the stockpiles area designated for the delivery of material and excess spoil in the higher elevations of the site and use for the subsequent stages of the development, removing once Stage 11 construction is complete and prior to the final landscaping works.

Post construction undertakings;

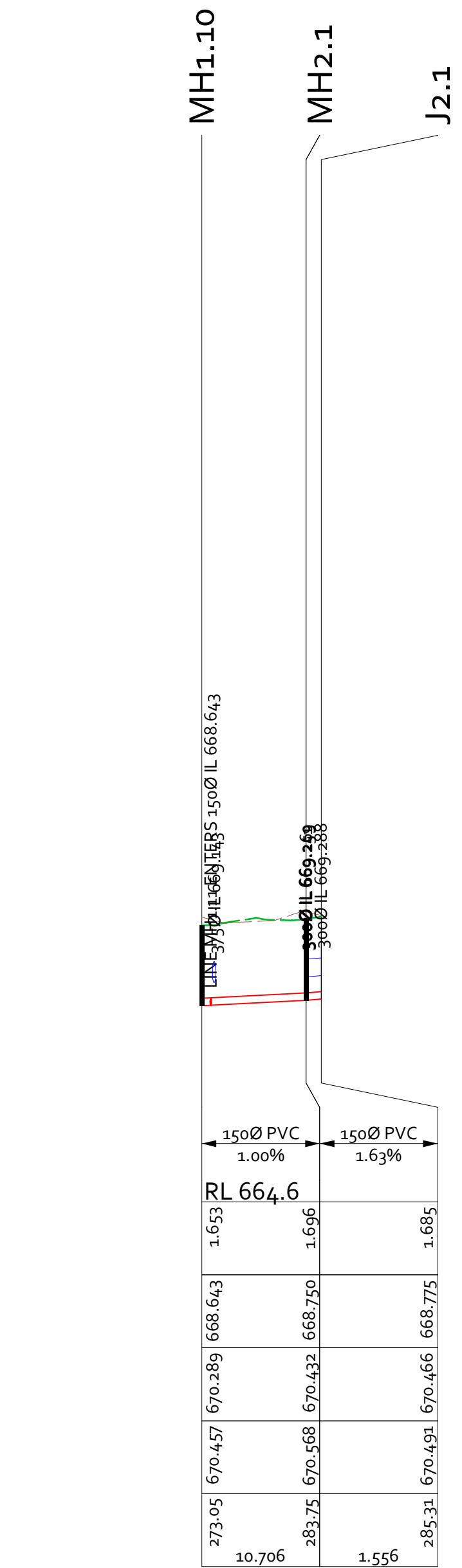
- Remove all temporary barrier fencing and sediment control measures once any re-vegetation and/or landscaping has achieved the desired effective cover or finish
- Monitor the survivability of the plants within the biofiltration systems (and general landscaping areas) and replace as necessary until at least 90% effective cover has been established

General comments;

- Check the condition of all sediment control fencing at least weekly and after rain events and rectify as necessary to ensure that they are effective and ready for next rain event
- All topsoil stockpiles to be in accordance with Landcom Standard Drawing SD4-1
- All sediment control fence and barriers to be in accordance with Landcom Standard Drawing SD6-7 and SD6-8
- All pipe upturns and drainage pits to be protected from sediment laden stormwater ingress in accordance with Standard Drawing SD6-12
- The stabilised site access to be installed in accordance with Landcom Standard Drawing SD6-14.



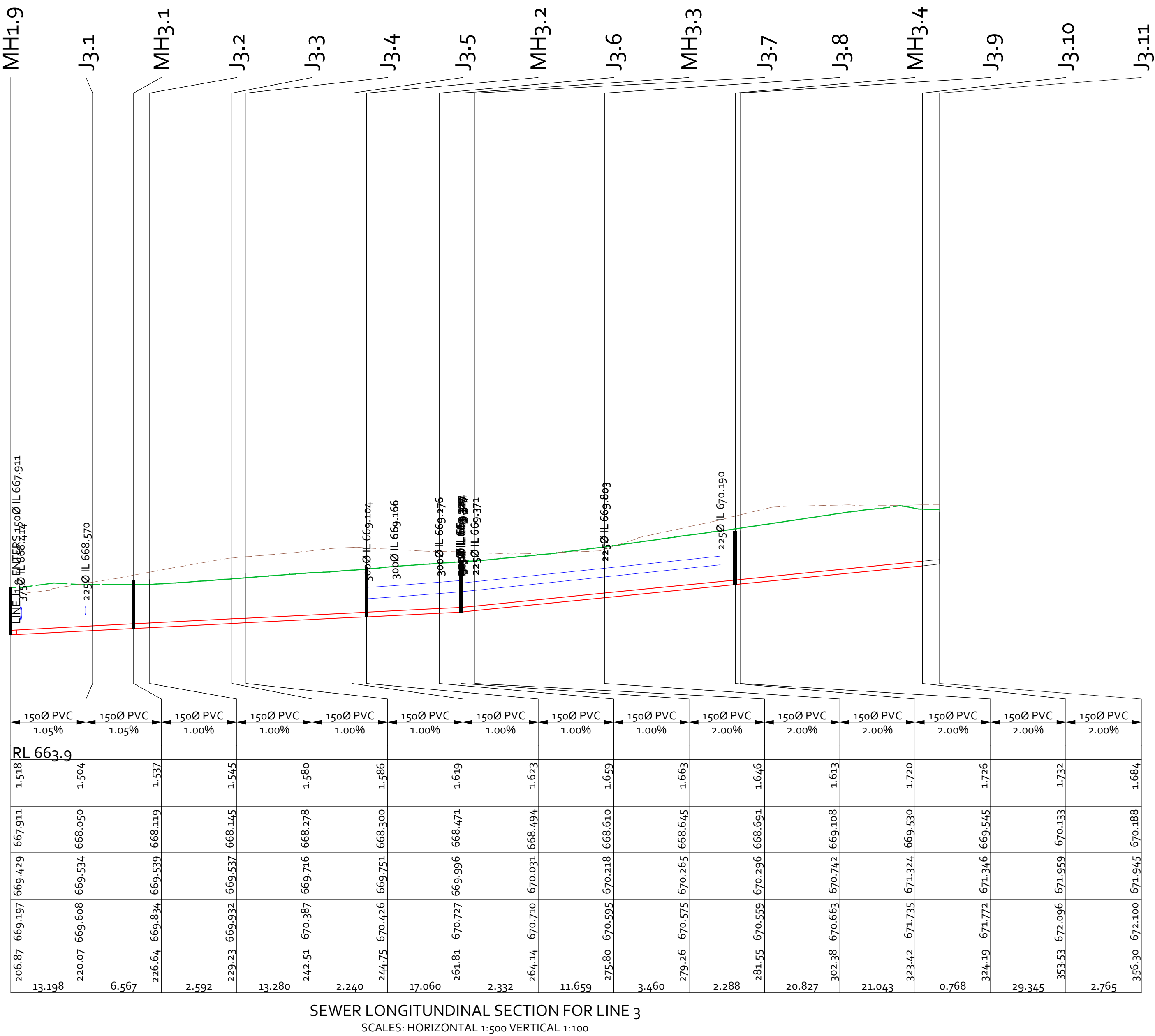
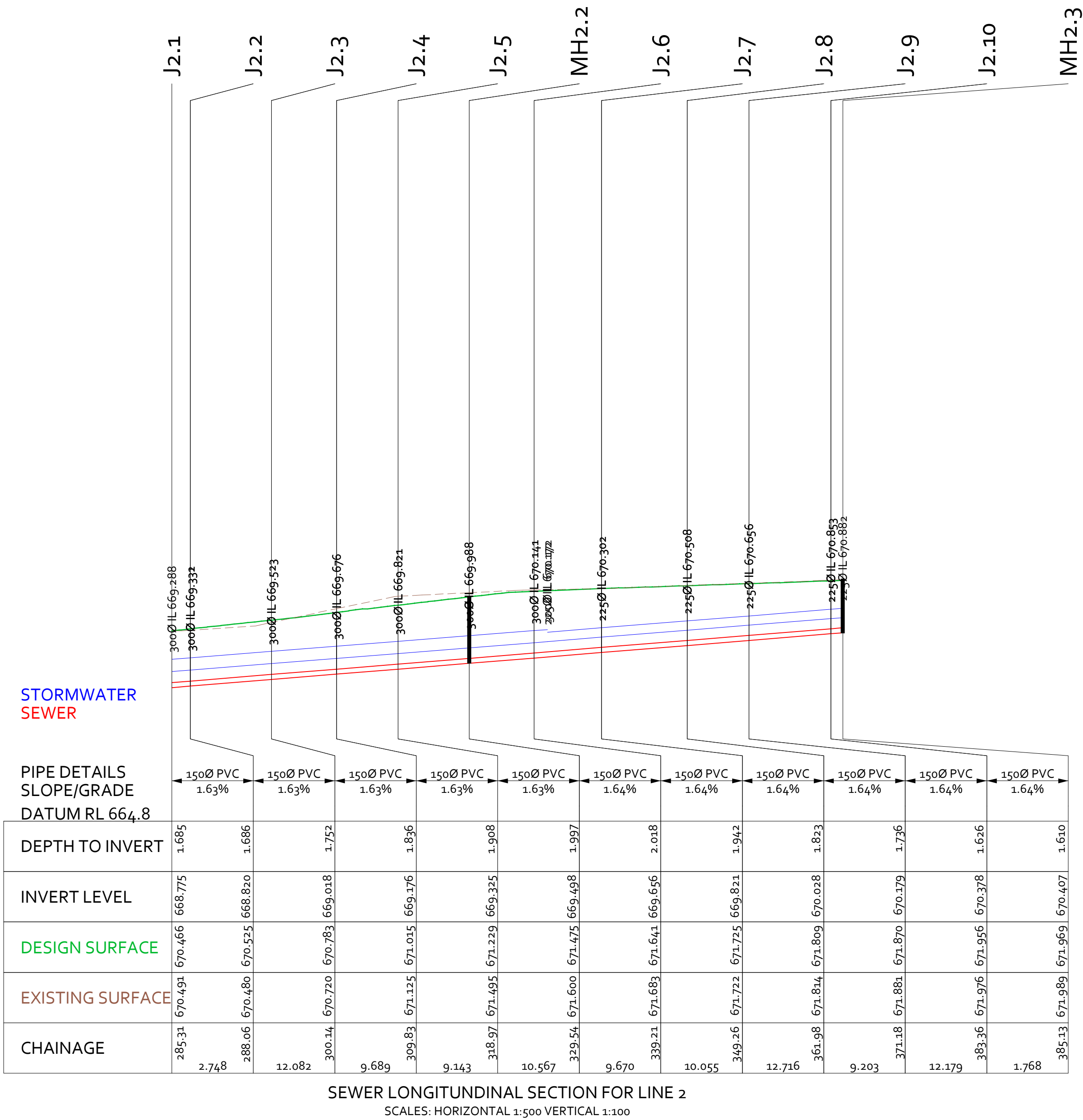
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SEWER LONGITUNDINAL SECTION FOR LINE 2
SCALES: HORIZONTAL 1:500 VERTICAL 1:100

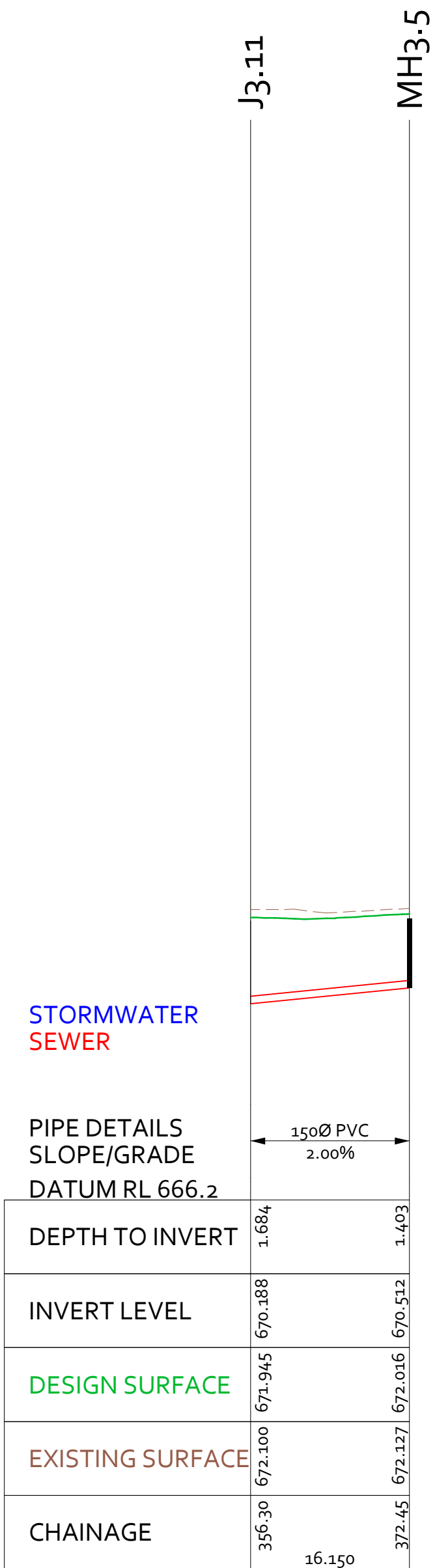
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							DRAWING SCALE:	SHEET SIZE:
							As Noted	A1
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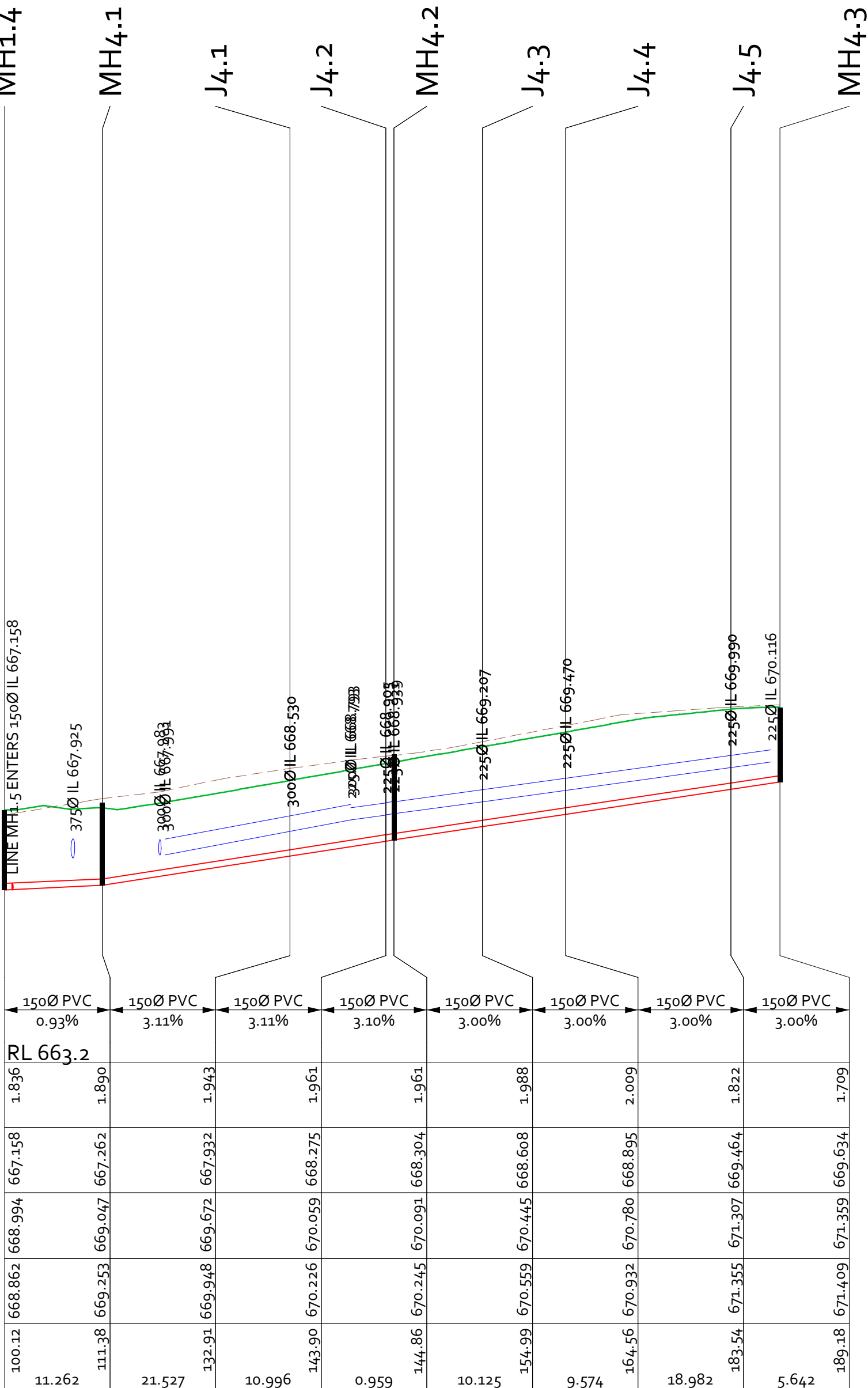


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A	ISSUE FOR SUBMISSION	01/07/2021	DRAWING TITLE:		STREET ADDRESS:		REFERENCE NUMBER:	DRAWN BY:
			SEWER DRAINAGE LONG SECTION DETAILS - 2 of 3		6 WISEMAN ROAD BOWRAL. NSW. 2576		0080420	PJ
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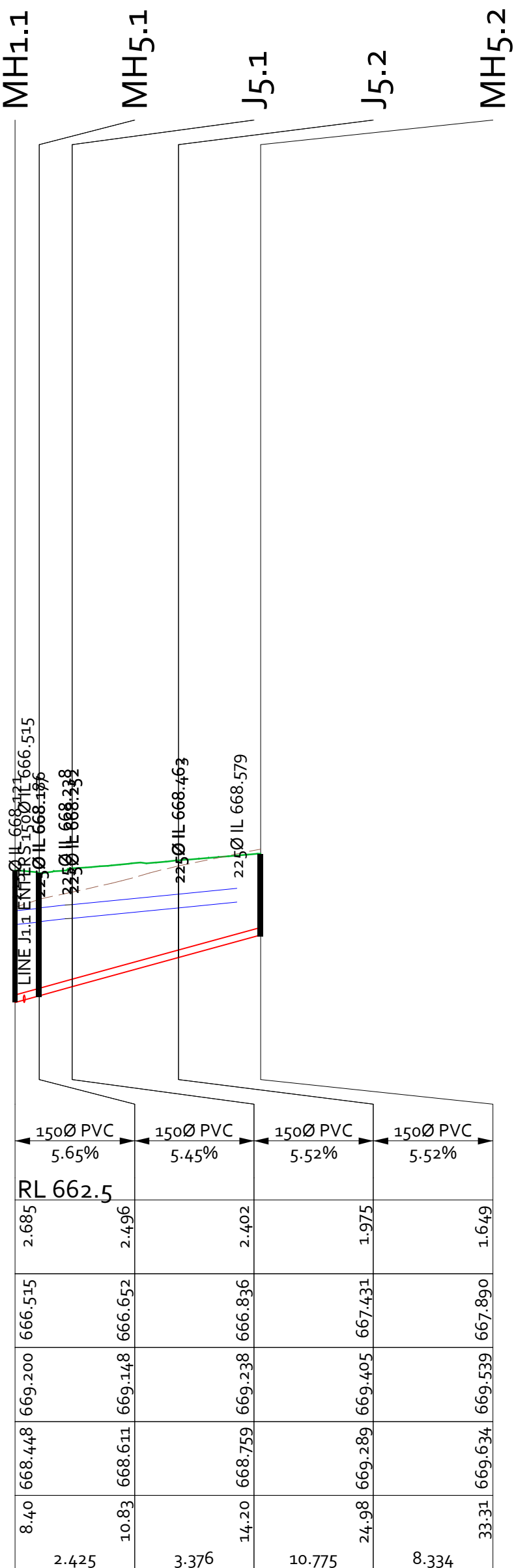
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SEWER LONGITUNDINAL SECTION FOR LINE 3
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



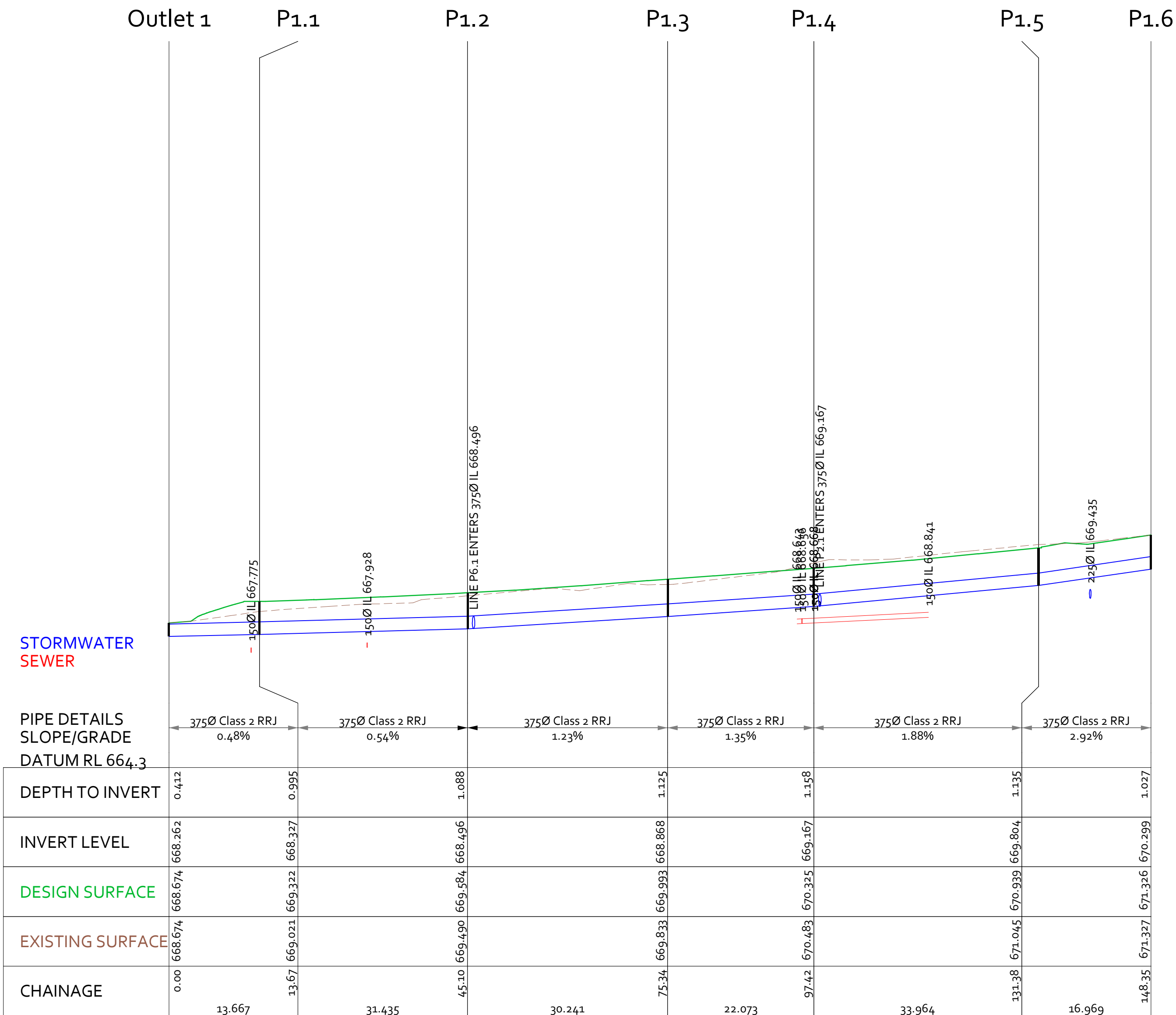
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SCALES: HORIZONTAL 1:500 VERTICAL 1:100



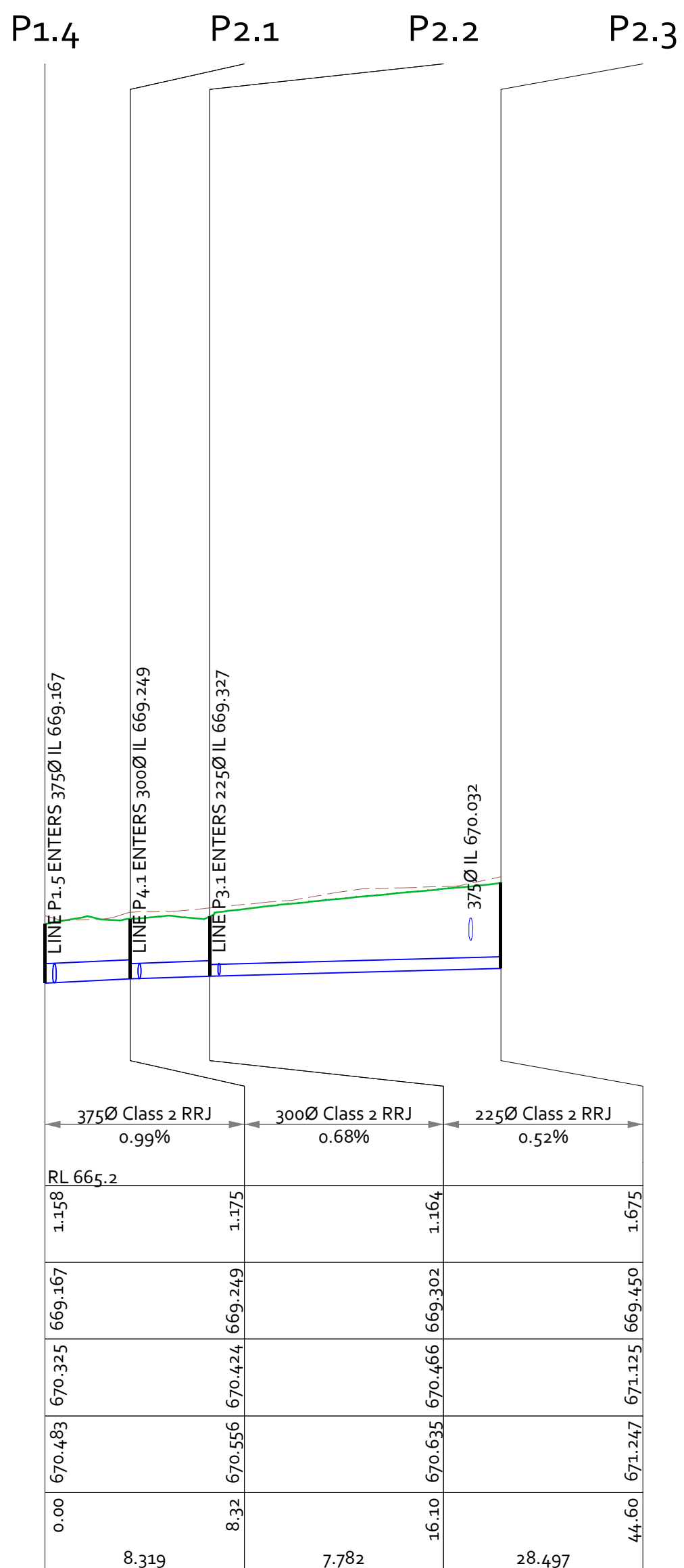
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SCALES: HORIZONTAL 1:500 VERTICAL 1:100

 P.O. Box 619 Goolburn NSW 2580 E: sowdes@sowdes.com M: 0428 863 401	DRAWING REFERENCE		PROJECT TITLE:	TITLE PARTICULARS:	DRAWING DATE:	SHEET NUMBER:
	REVISION	DETAILS	REVISION DATE:		July 2021	9 of 16
	A	ISSUE FOR SUBMISSION	01/07/2021	PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT	REFERENCE NUMBER: 0080420	DRAWN BY: PJ
				DRAWING TITLE:	DRAWING SCALE:	SHEET SIZE:
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				6 WISEMAN ROAD BOWRAL. NSW. 2576		

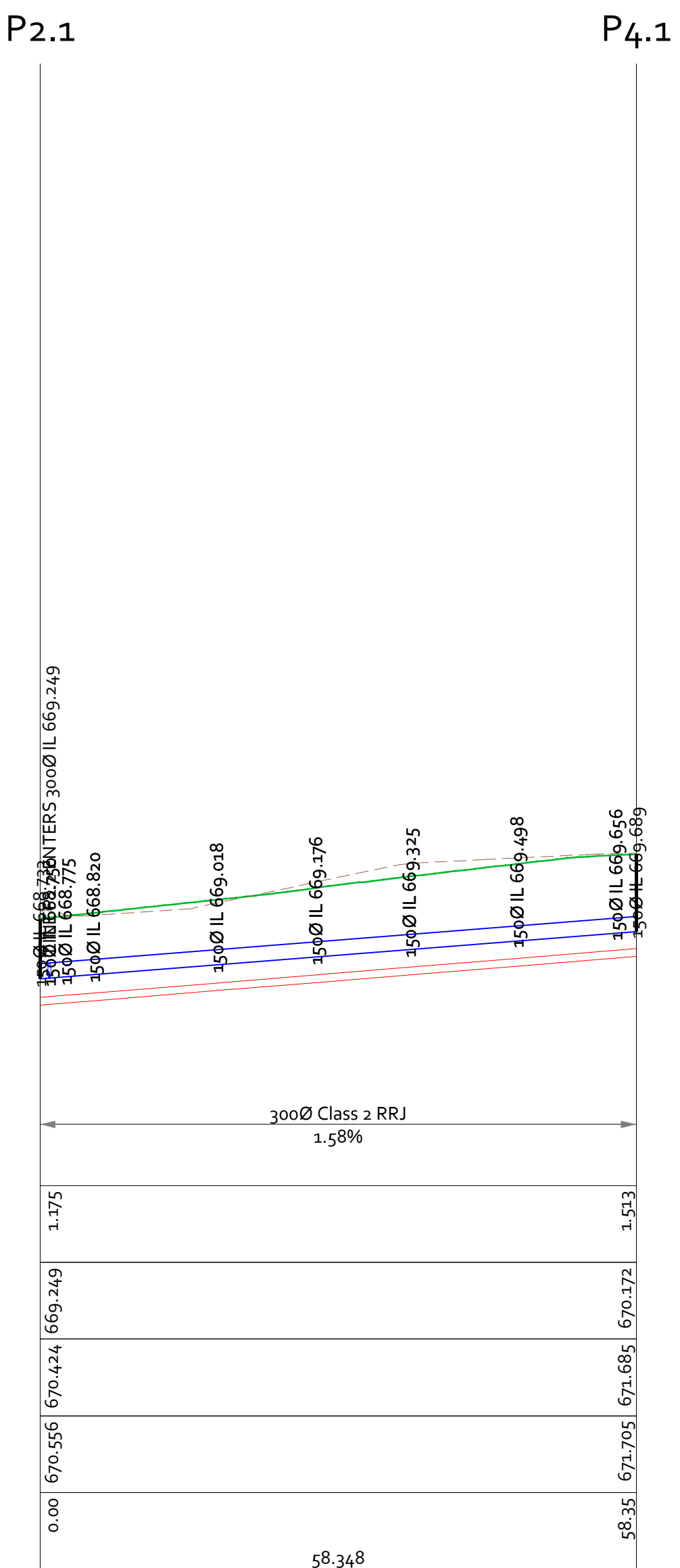
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DRAINAGE LONGITUNDINAL SECTION FOR LINE 1
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



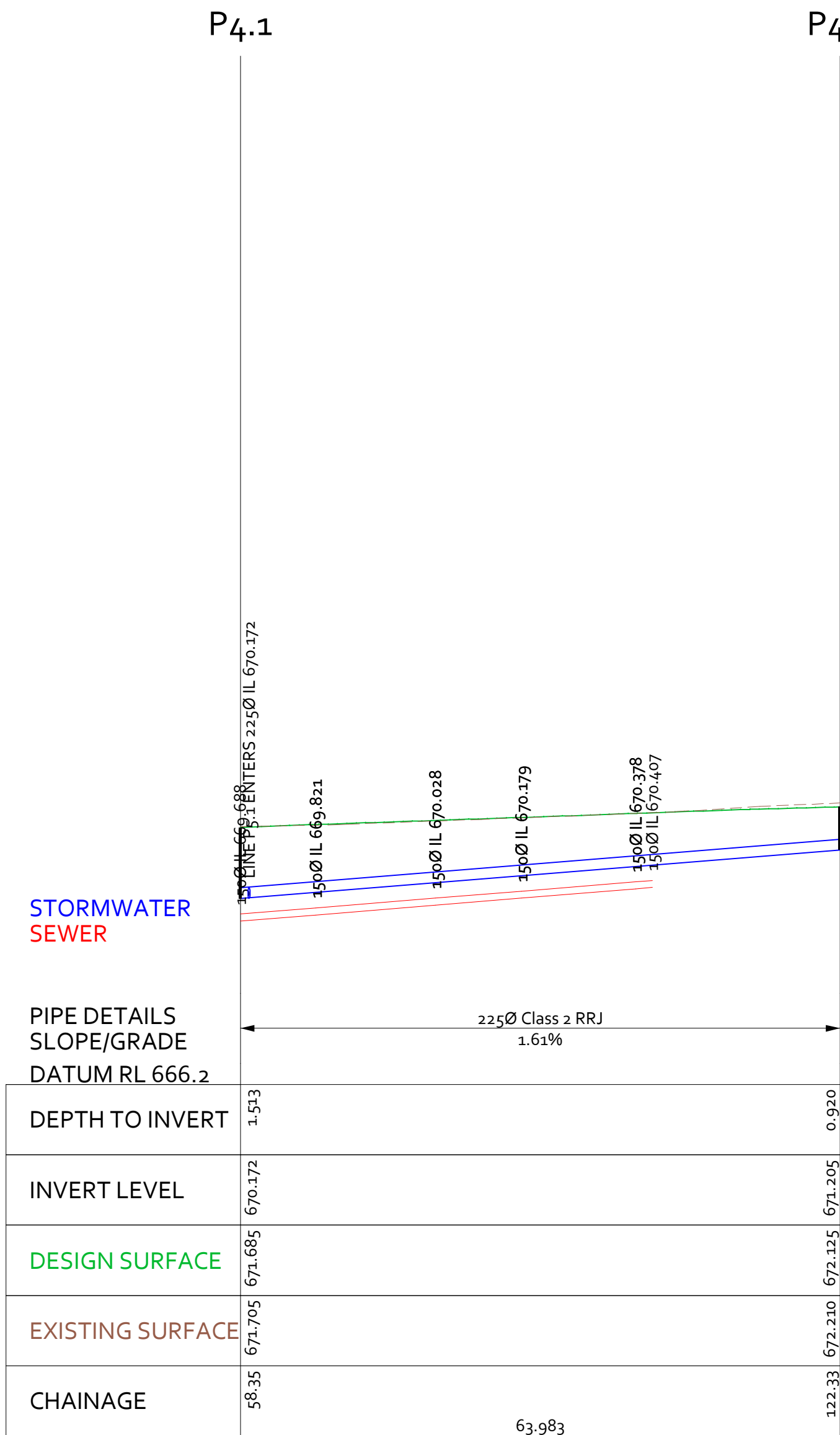
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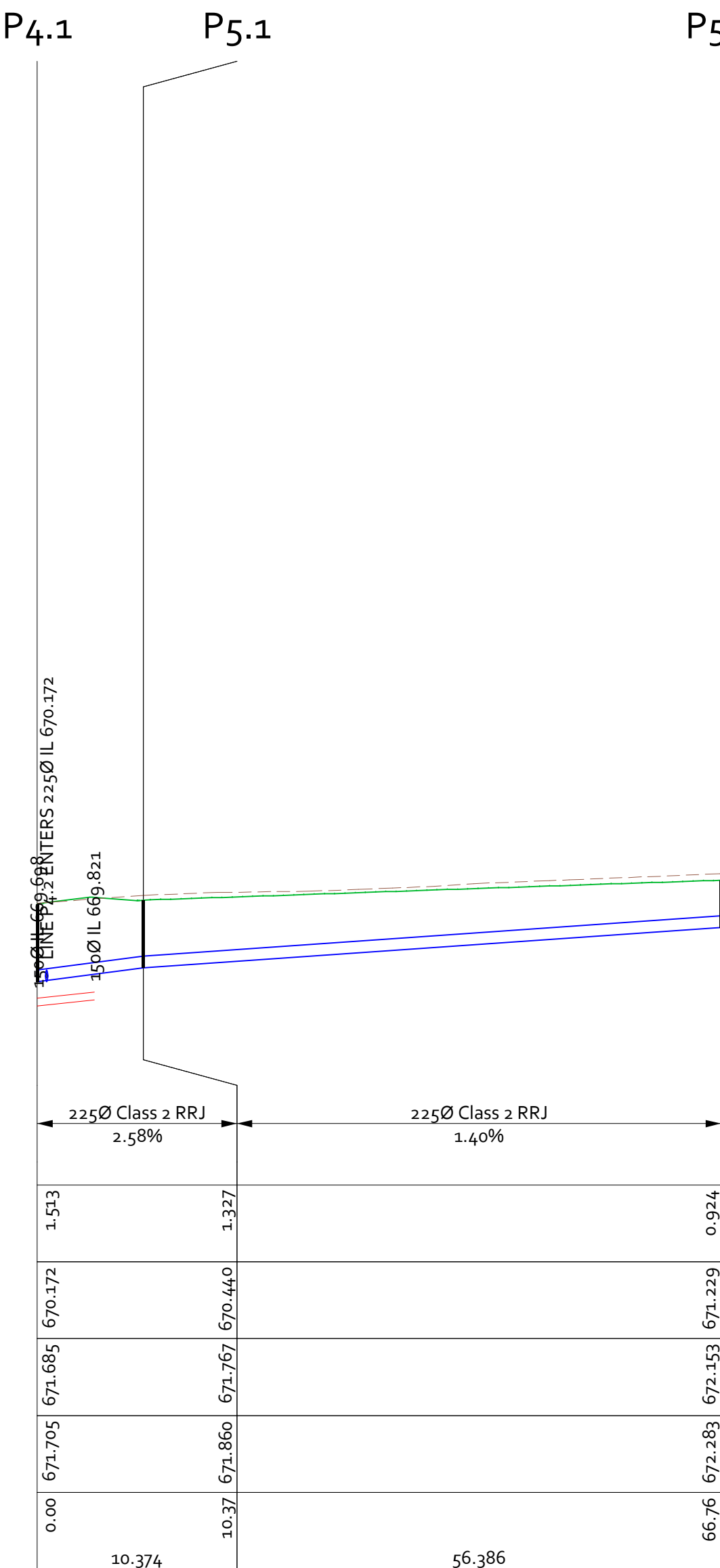
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REVISION:	DETAILS:	REVISION DATE:	PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT	LOT 4 DP829578	July 2021	10 of 16
A	ISSUE FOR SUBMISSION	01/07/2021			REFERENCE NUMBER: 0080420	DRAWN BY: PJ
			DRAWING TITLE:	STREET ADDRESS:	DRAWING SCALE:	SHEET SIZE:
			STORMWATER DRAINAGE LONG SECTION DETAILS - 1 of 5	6 WISEMAN ROAD BOWRAL. NSW. 2576	As Noted	A1
					DRAWING REFERENCE NUMBER: 0080420-01J	

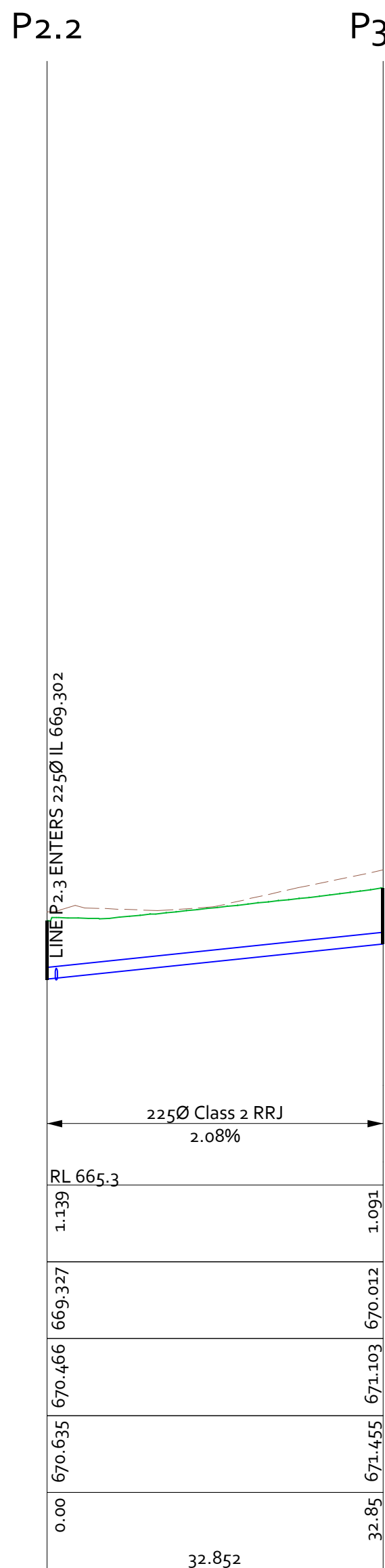
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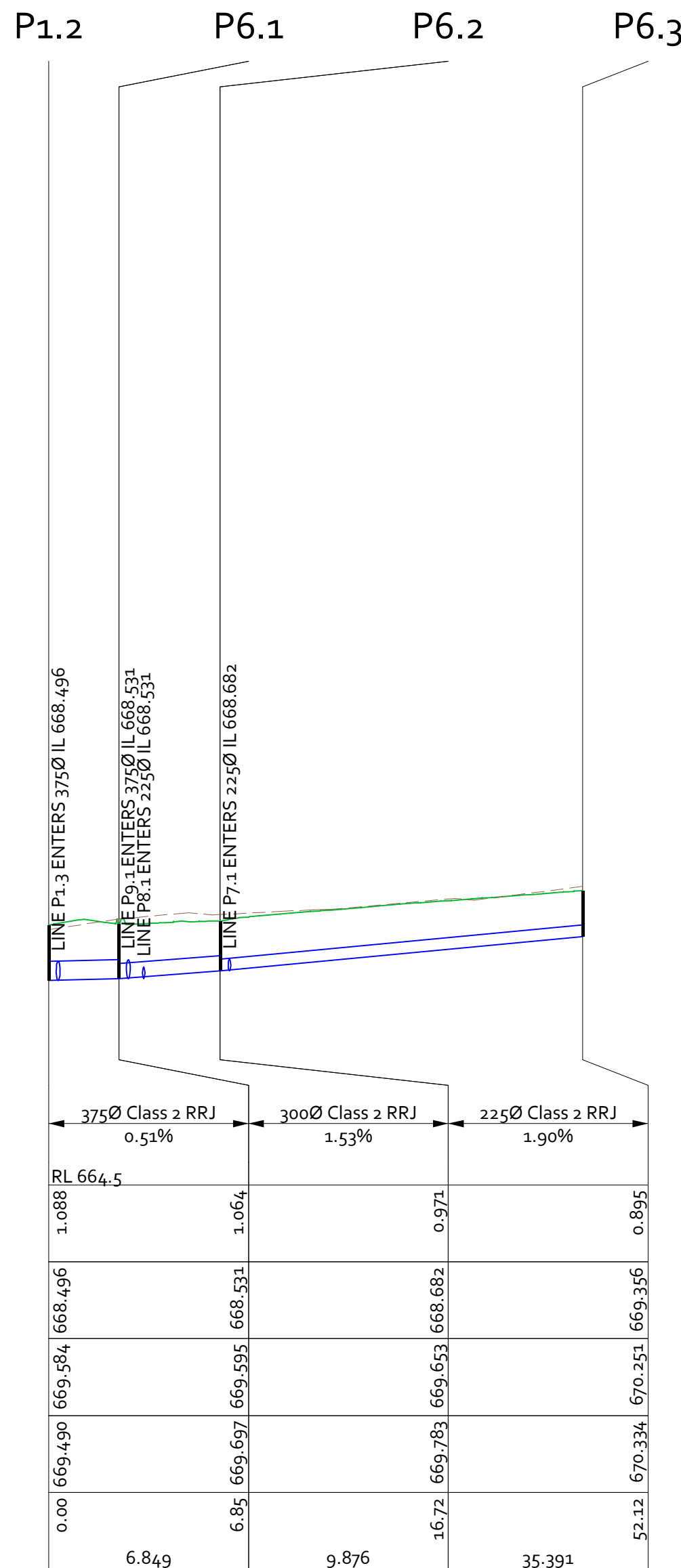
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DRAINAGE LONGITUNDINAL SECTION FOR LINE 5
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



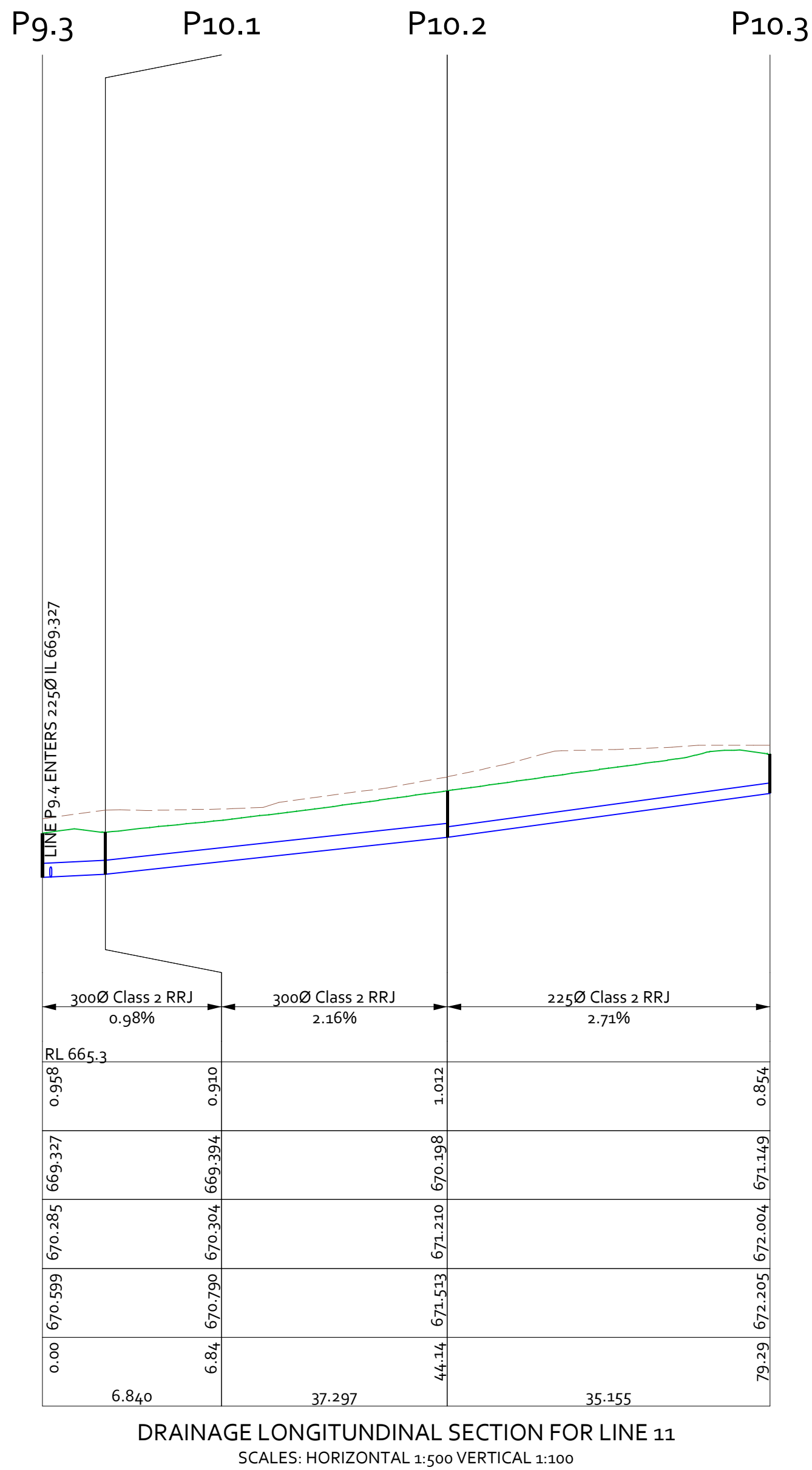
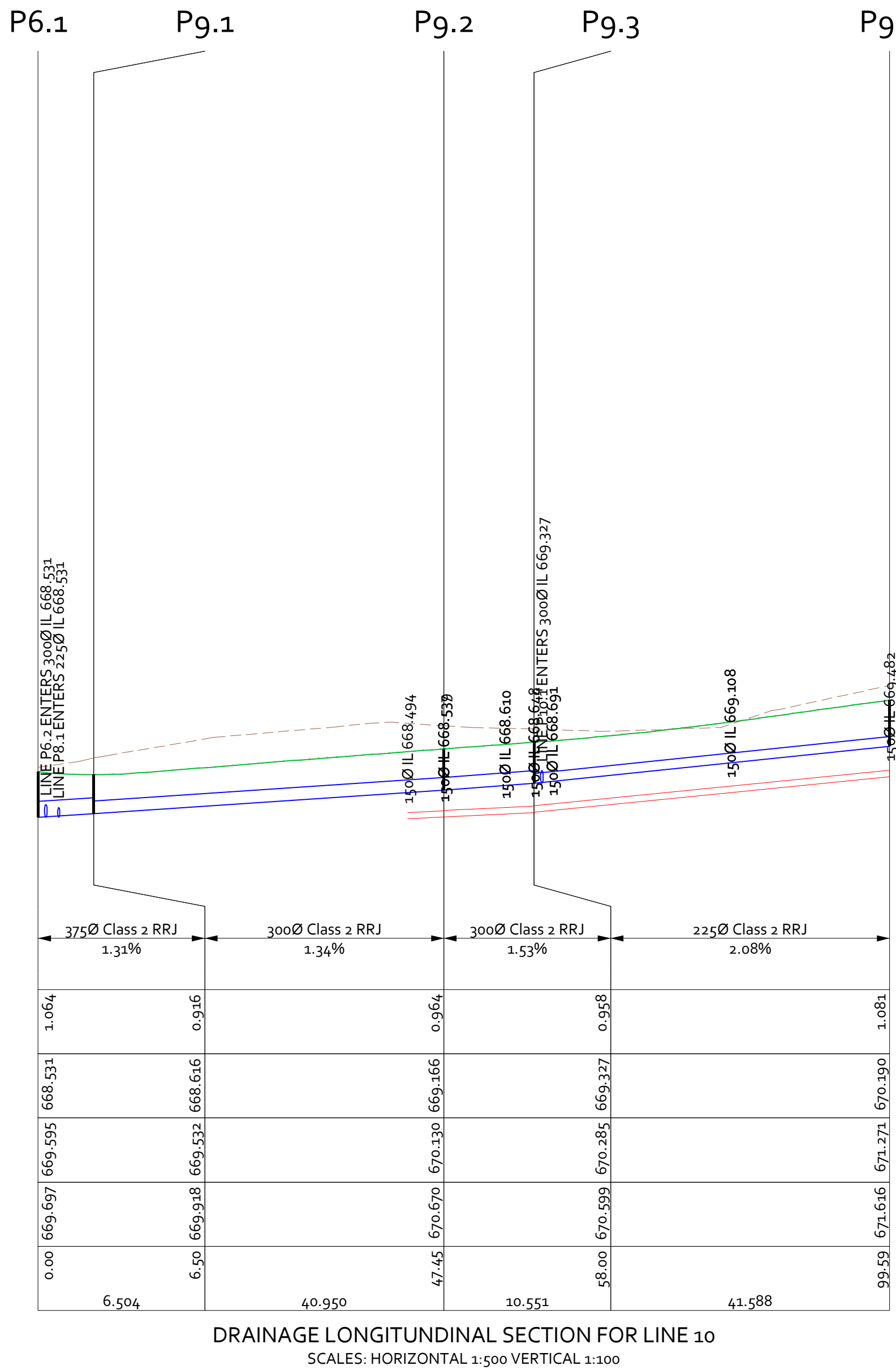
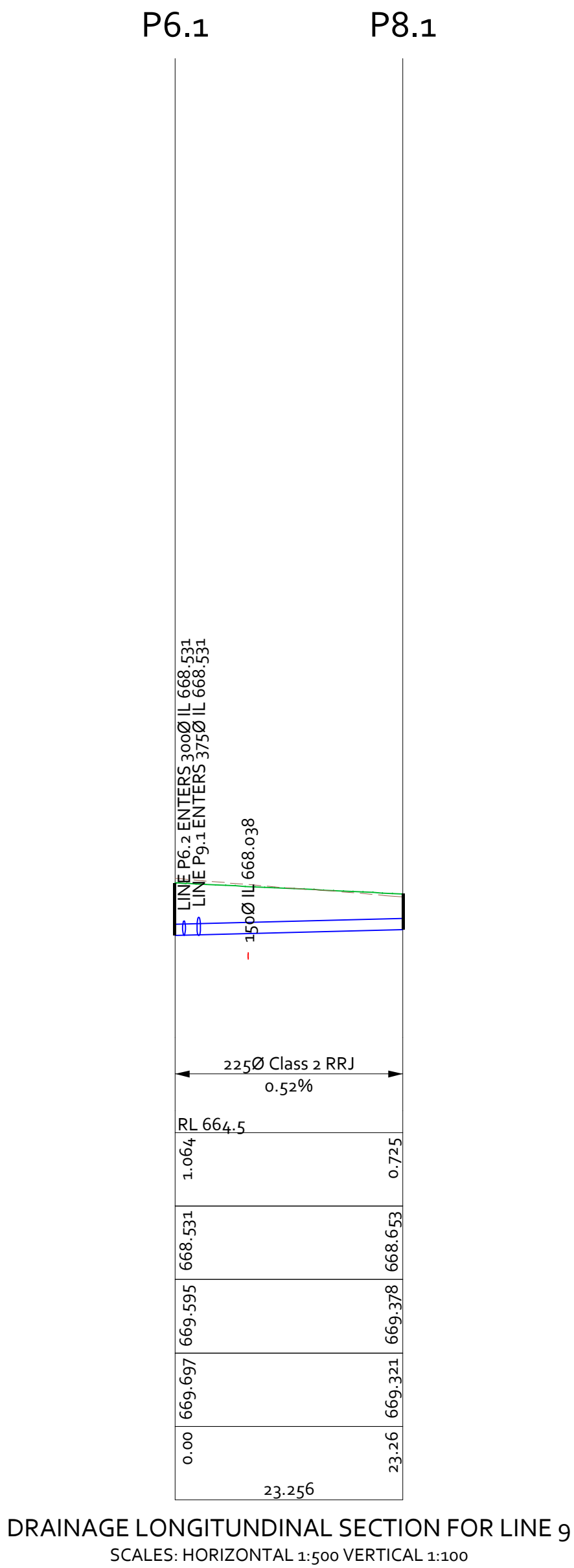
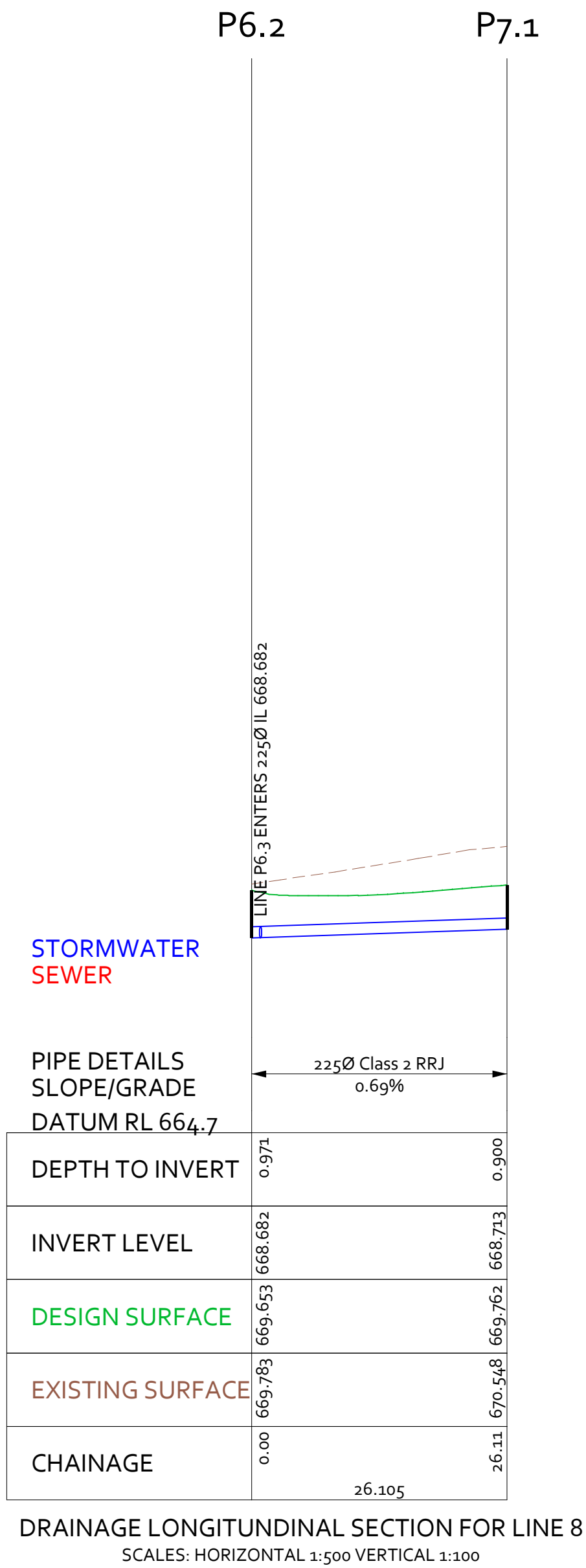
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DRAINAGE LONGITUNDINAL SECTION FOR LINE 7
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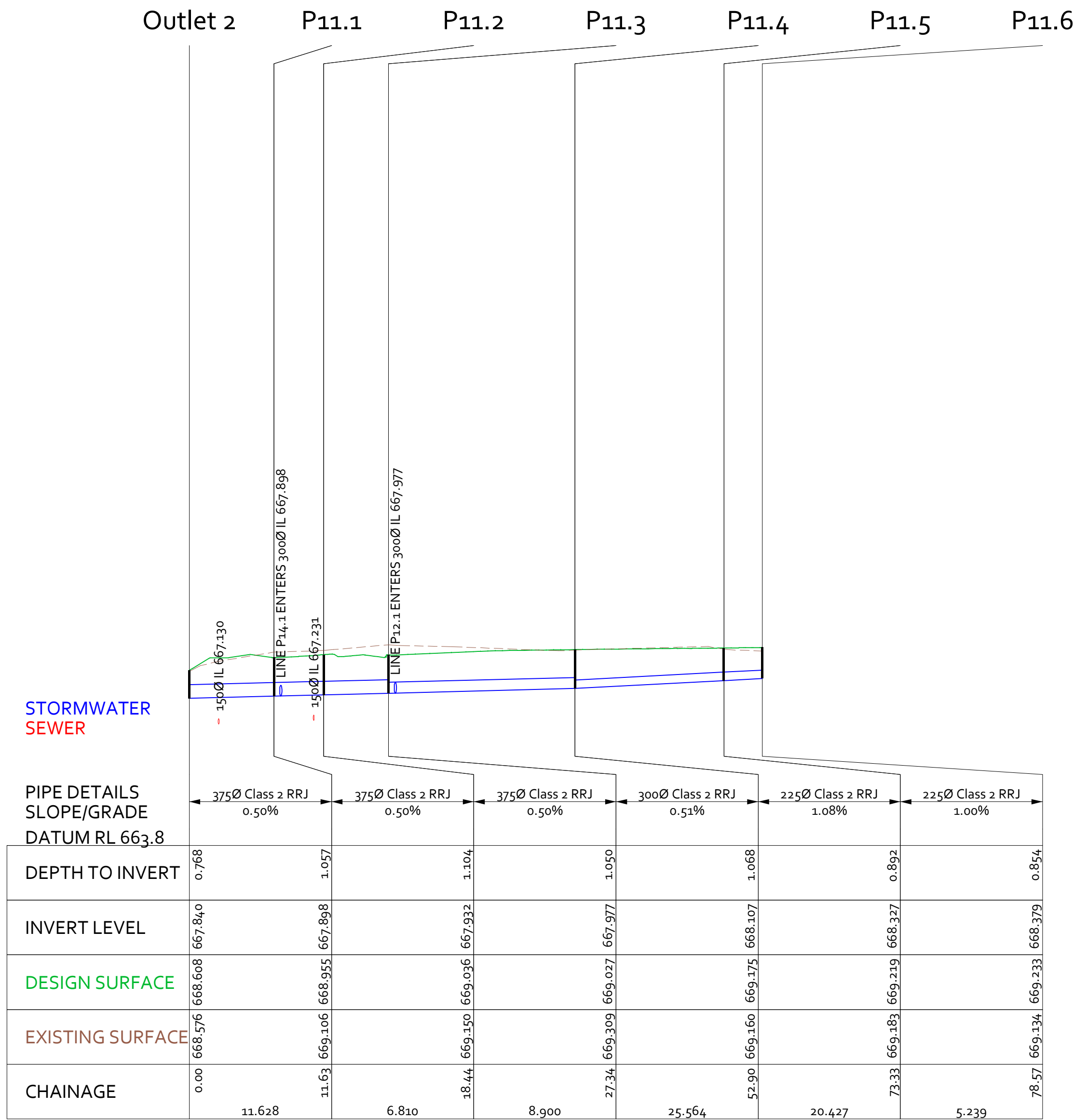
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 P.O. Box 619 Goulburn NSW 2580 E: sowdes@sowdes.com M: 0428 863 401	REVISION	DETAILS	PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT		LOT 4 DP829578		July 2021		11 of 16	
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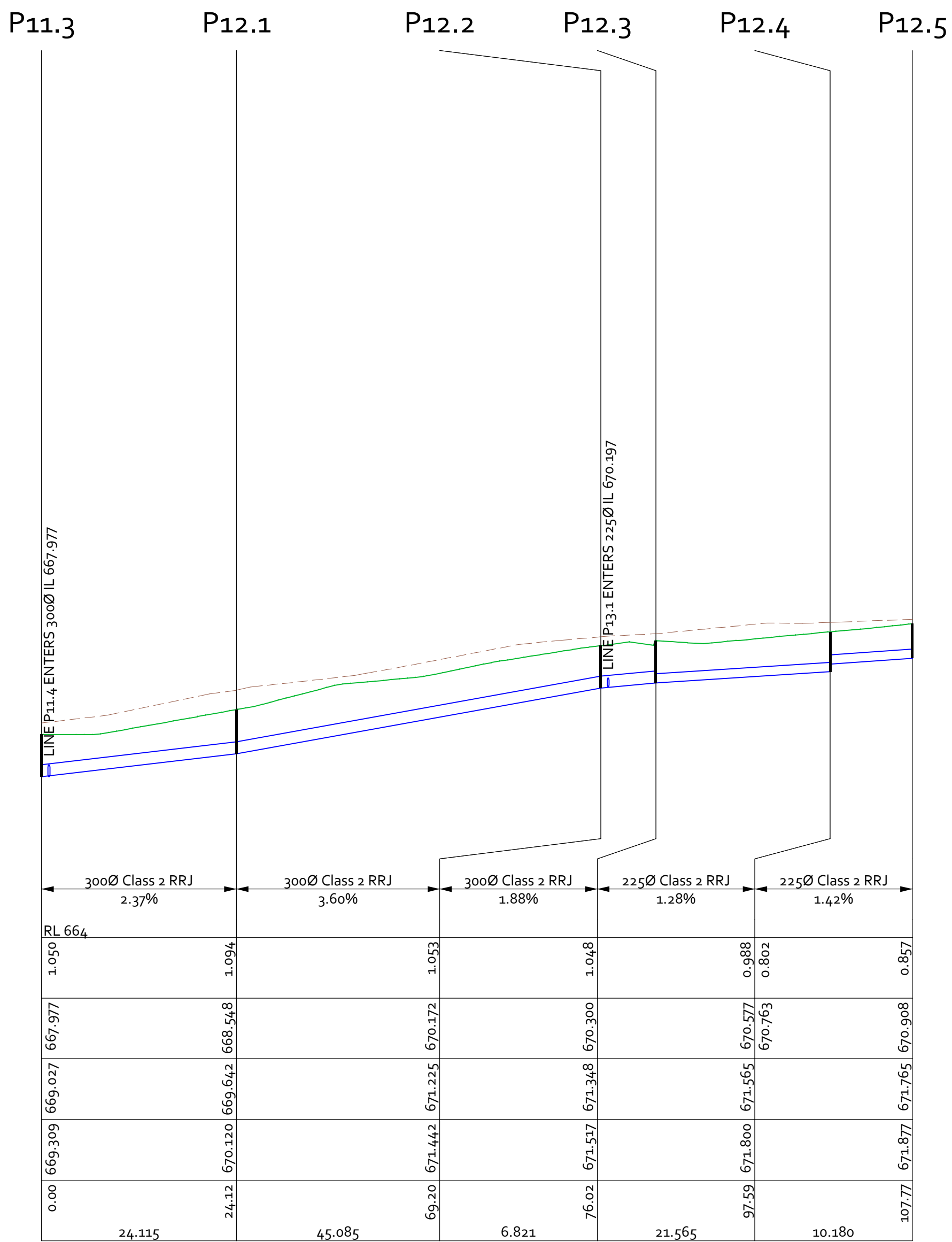


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A	ISSUE FOR SUBMISSION	01/07/2021			REFERENCE NUMBER: 0080420	DRAWN BY: PJ
			DRAWING TITLE:	STREET ADDRESS:	DRAWING SCALE:	SHEET SIZE:
			STORMWATER DRAINAGE LONG SECTION DETAILS - 3 of 5	6 WISEMAN ROAD BOWRAL. NSW. 2576	As Noted	A1
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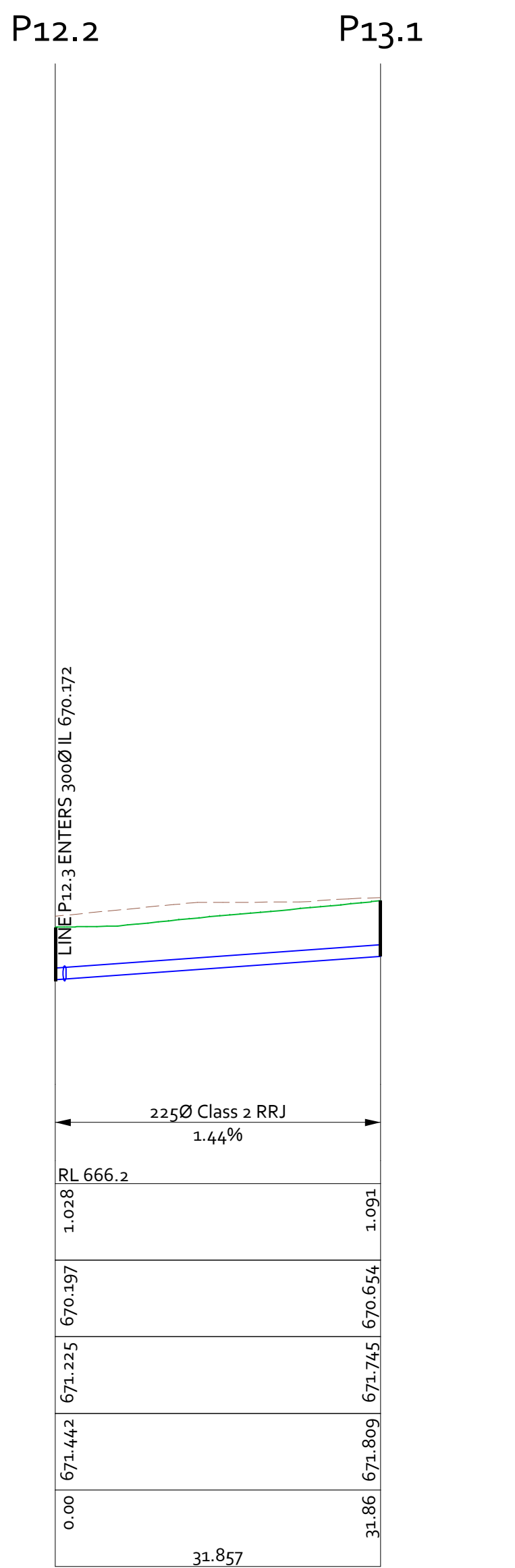
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DRAINAGE LONGITUNDINAL SECTION FOR LINE 12
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



DRAINAGE LONGITUNDINAL SECTION FOR LINE 13
SCALES: HORIZONTAL 1:500 VERTICAL 1:100

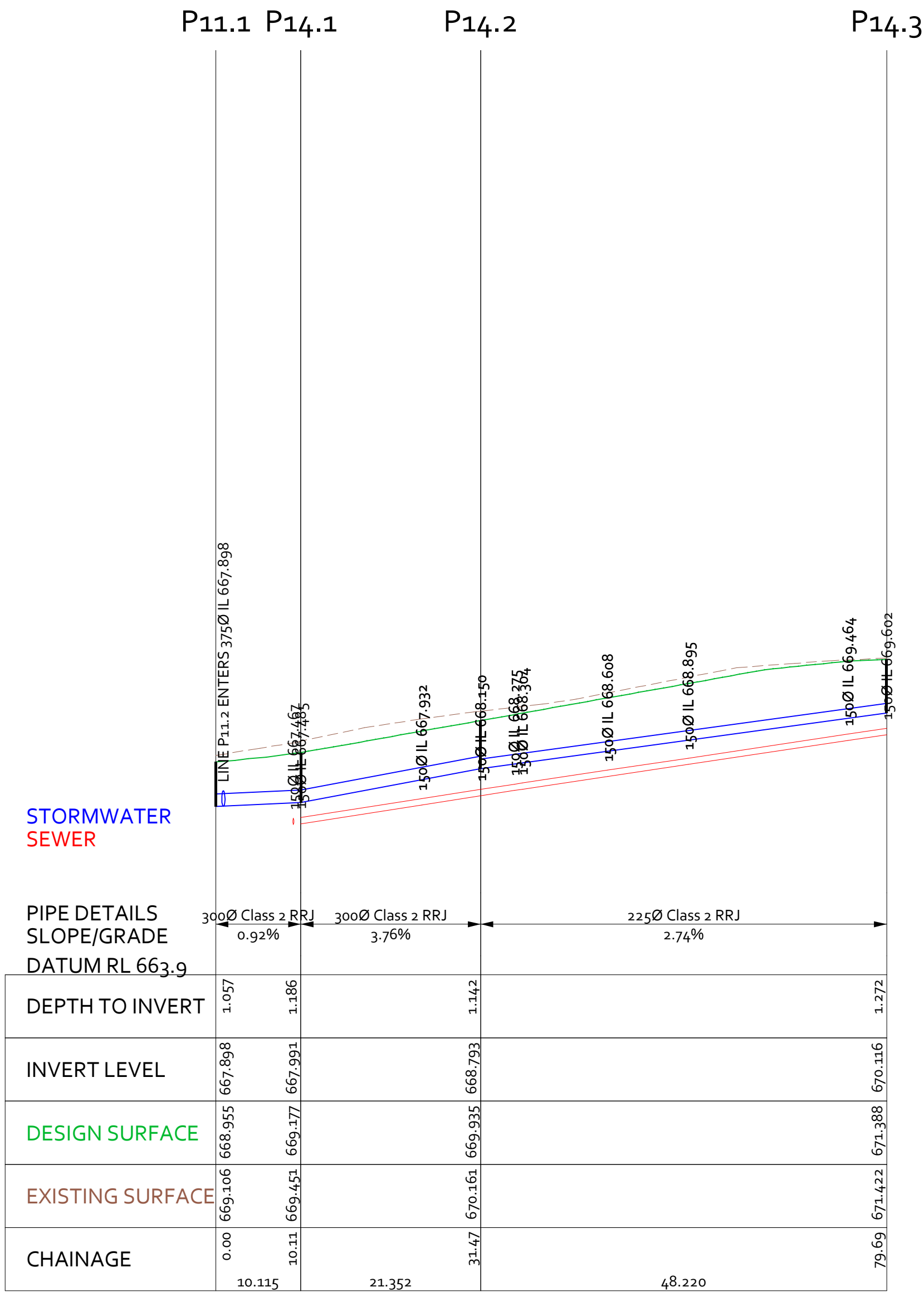


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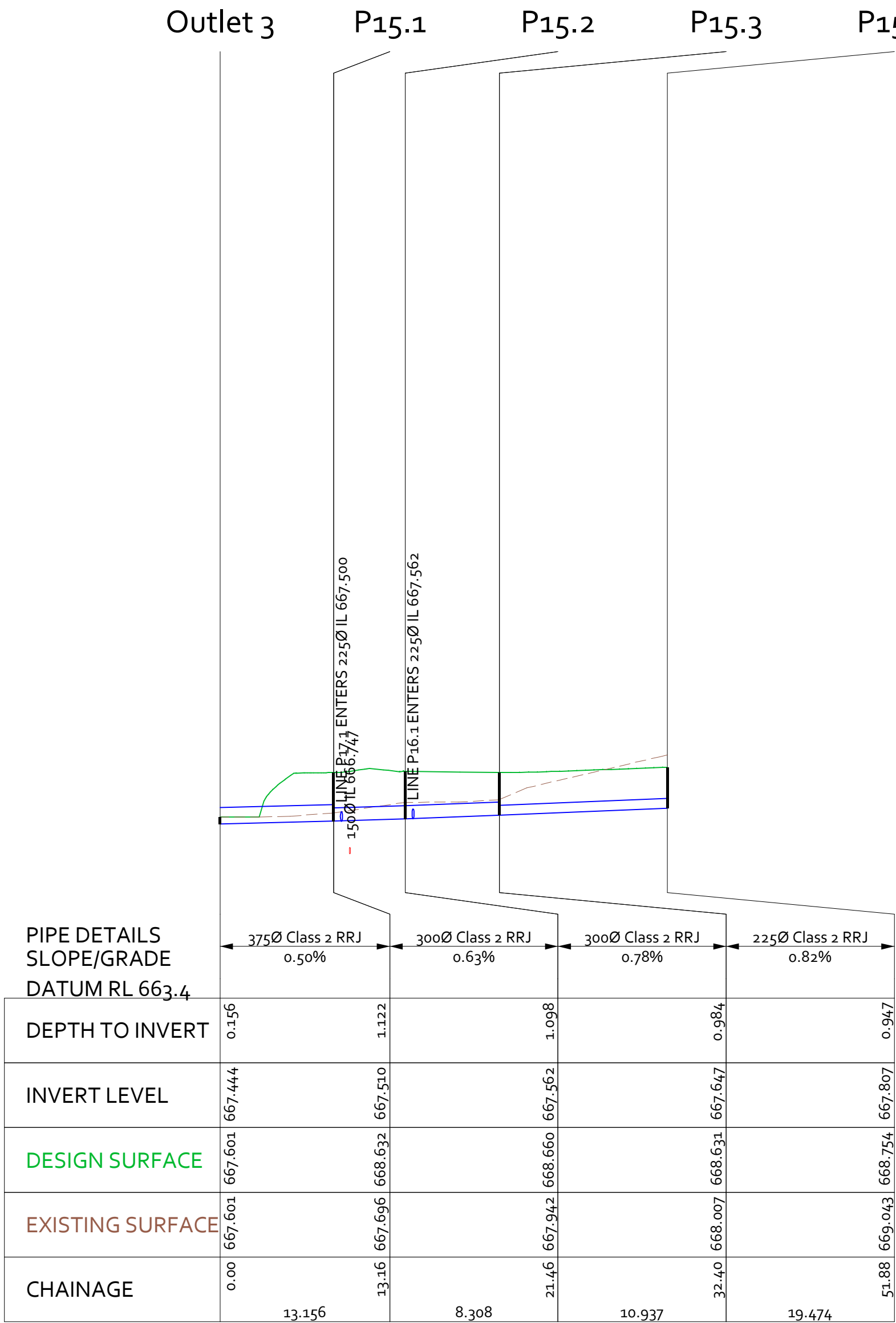
 P.O. Box 619 Goulburn, NSW 2580 E: sowdes@sowdes.com M: 0428 883 401	DRAWING REFERENCE			PROJECT TITLE:	TITLE PARTICULARS:	DRAWING DATE:	SHEET NUMBER:
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	A	ISSUE FOR SUBMISSION	01/07/2021	DRAWING TITLE:	STREET ADDRESS:	REFERENCE NUMBER:	DRAWN BY:
				STORMWATER DRAINAGE LONG SECTION DETAILS - 4 of 5	6 WISEMAN ROAD BOWRAL. NSW. 2576	0080420	PJ
						DRAWING SCALE:	SHEET SIZE:

As Noted	A1
DRAWING REFERENCE NUMBER: 0080420-01M	

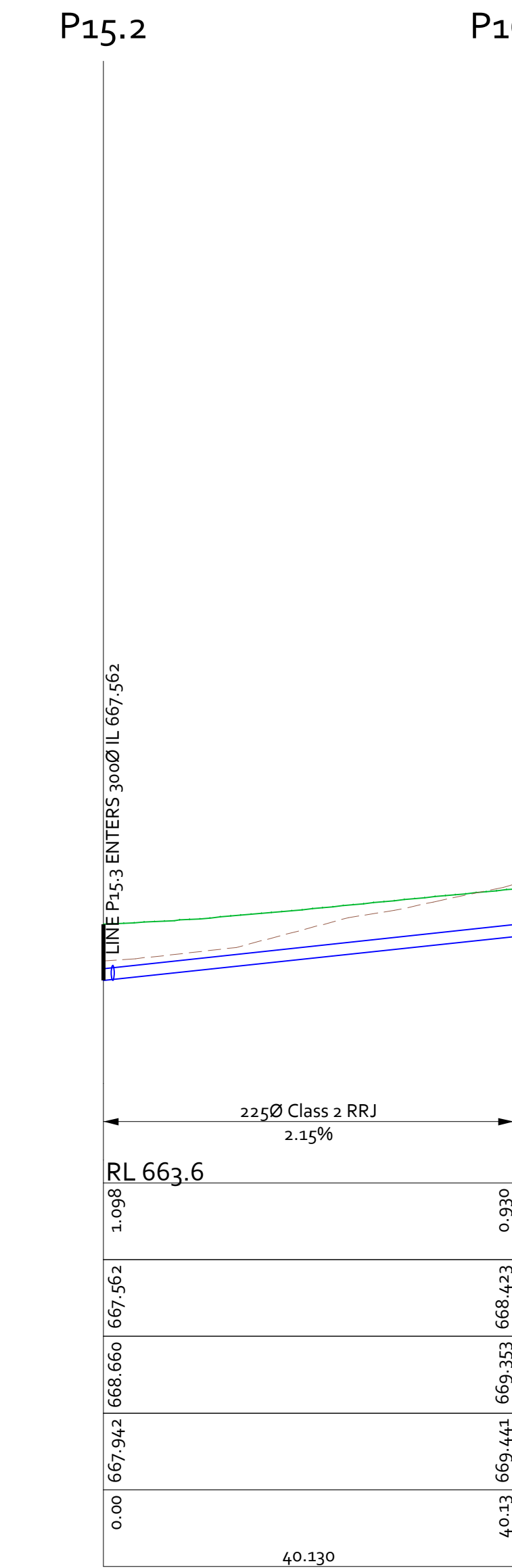
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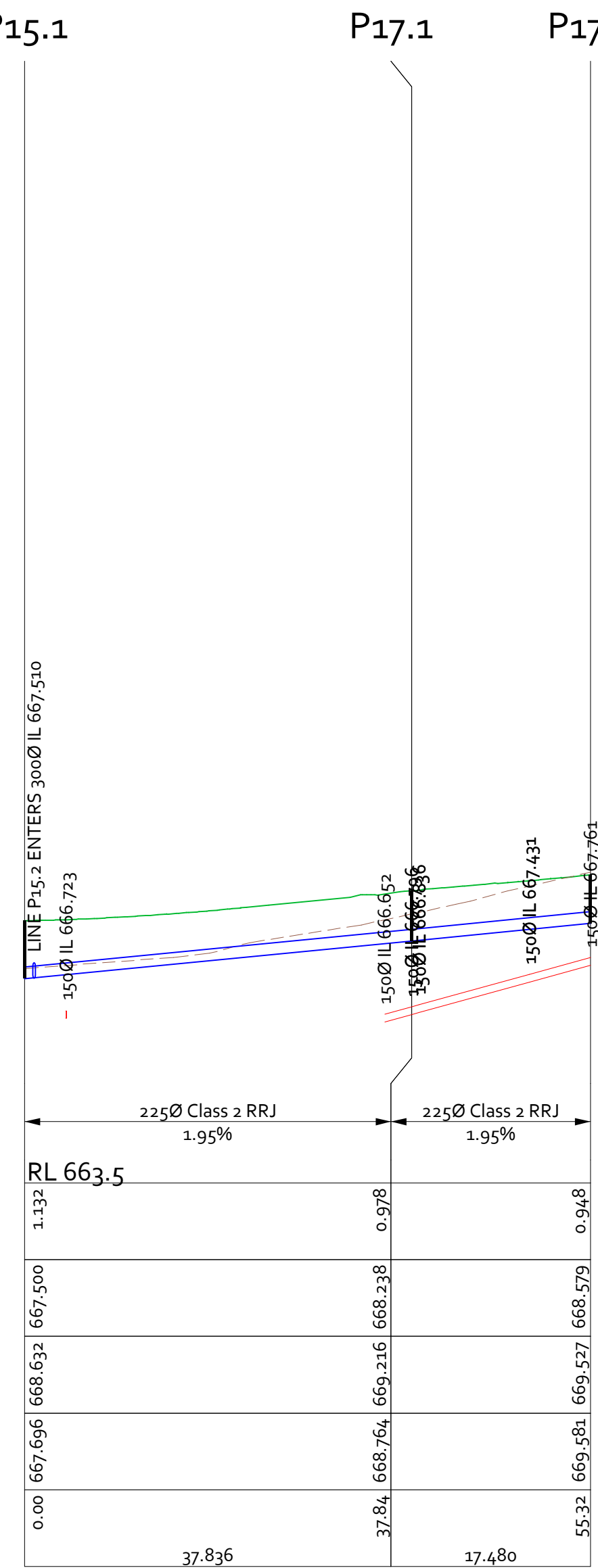
DRAINAGE LONGITUNDINAL SECTION FOR LINE 15
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



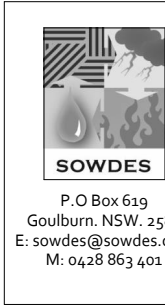
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SCALES: HORIZONTAL 1:500 VERTICAL 1:100



DRAINAGE LONGITUNDINAL SECTION FOR LINE 17
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



DRAINAGE LONGITUNDINAL SECTION FOR LINE 18
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



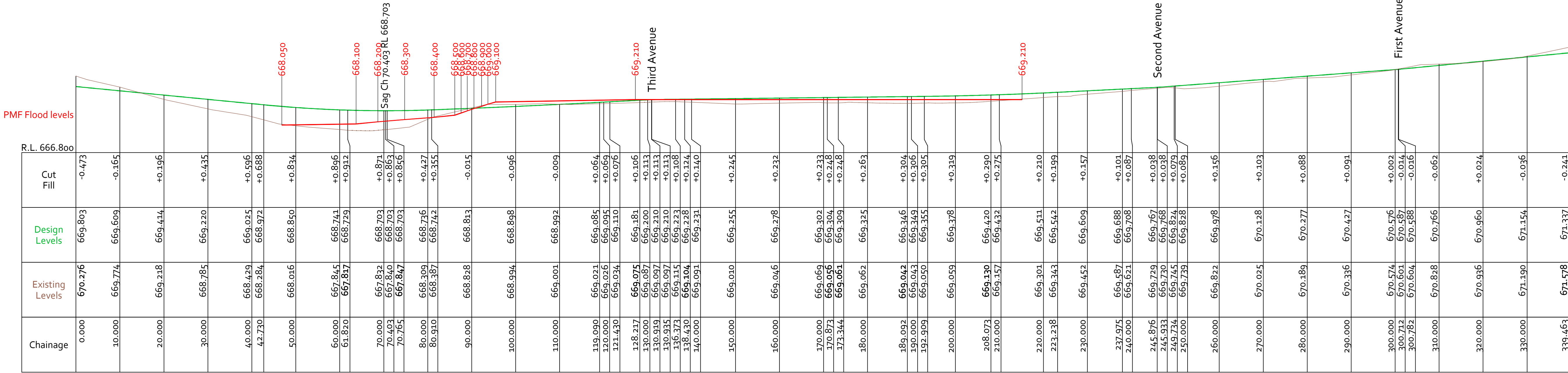
DRAWING REFERENCE		
REVISION	DETAILS	REVISION DATE
A	ISSUE FOR SUBMISSION	01/07/2021

PROJECT TITLE: PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT
DRAWING TITLE: STORMWATER DRAINAGE LONG SECTION DETAILS - 5 of 5

TITLE PARTICULARS: LOT 4 DP829578
STREET ADDRESS: 6 WISEMAN ROAD BOWRAL. NSW. 2576

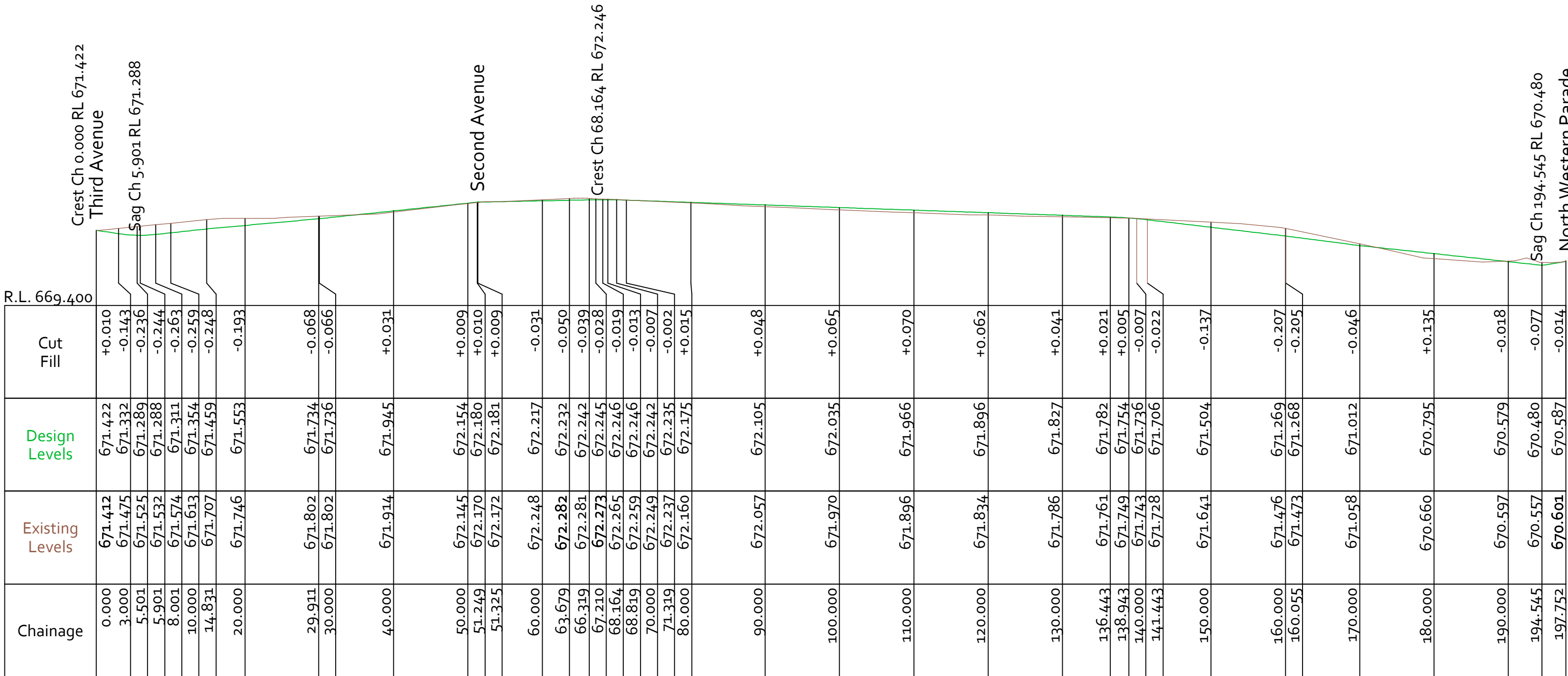
DRAWING DATE: July 2021	SHEET NUMBER: 14 of 16
REFERENCE NUMBER: 0080420	DRAWN BY: PJ
DRAWING SCALE: As Noted	SHEET SIZE: A1
DRAWING REFERENCE NUMBER: 0080420-01N	

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DESIGN LONGITUNDINAL SECTION DETAIL FOR NORTH WESTERN PARADE

SCALES: HORIZONTAL 1:500 VERTICAL 1:100



DESIGN LONGITUNDINAL SECTION DETAIL FOR FIRST AVENUE

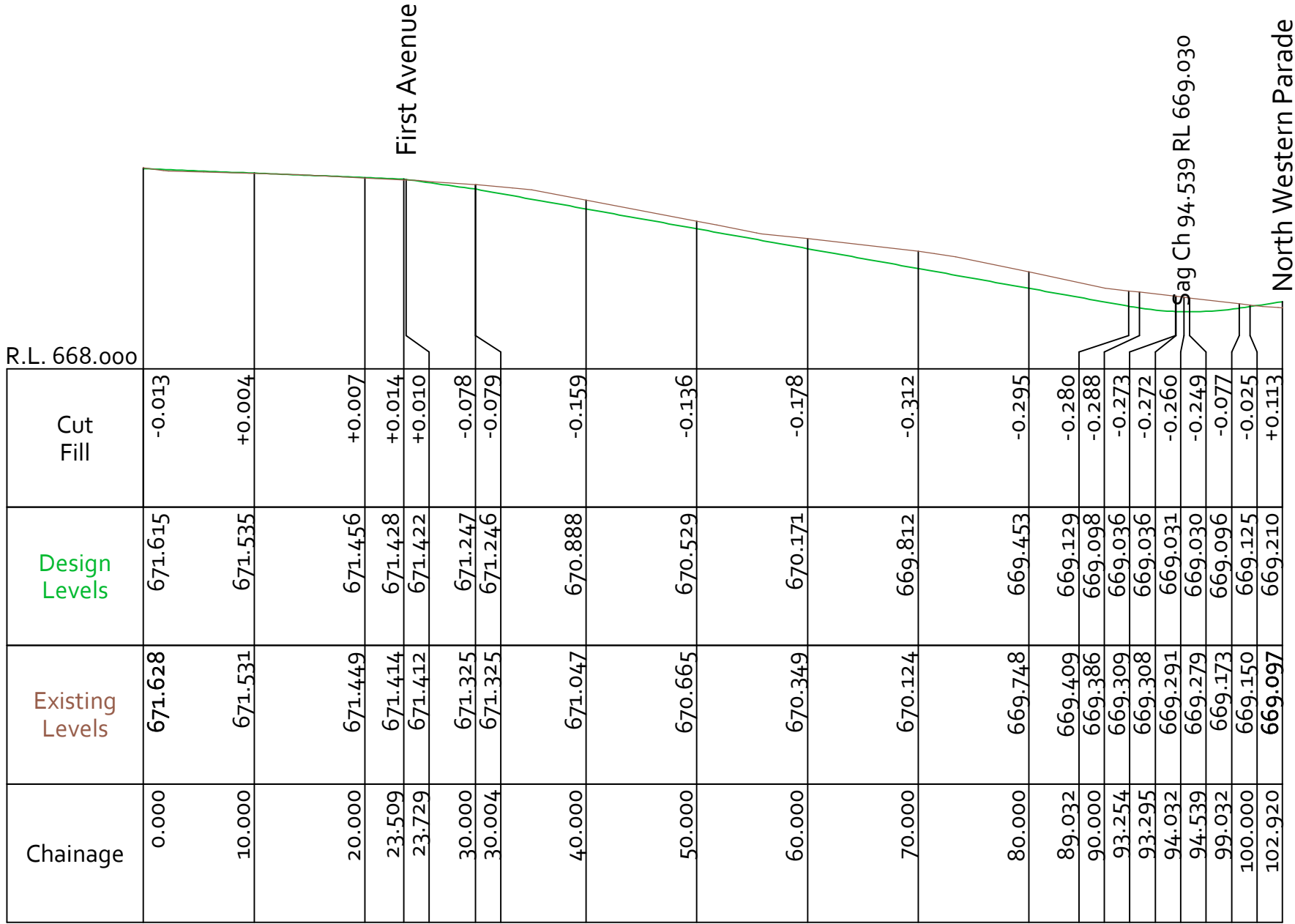
SCALES: HORIZONTAL 1:500 VERTICAL 1:100

 P.O. Box 619 Goulburn NSW 2580 E: sowdes@sowdes.com M: 0428 863 401	DRAWING REFERENCE			PROJECT TITLE:		TITLE PARTICULARS:		DRAWING DATE:		SHEET NUMBER:	
	REVISION	DETAILS	REVISION DATE	PEPPERFIELD LIFESTYLE RESORT SENIORS LIVING DEVELOPMENT		LOT 4 DP829578		July 2021		15 of 16	
	A	ISSUE FOR SUBMISSION	01/07/2021					REFERENCE NUMBER: 0080420		DRAWN BY: PJ	
				DRAWING TITLE:		STREET ADDRESS:		DRAWING SCALE:		SHEET SIZE:	
				INTERNAL ROAD DESIGN LONG SECTION DETAILS - 1 of 2		6 WISEMAN ROAD BOWRAL. NSW. 2576		As Noted		A1	
								DRAWING REFERENCE NUMBER: 0080420-01O			

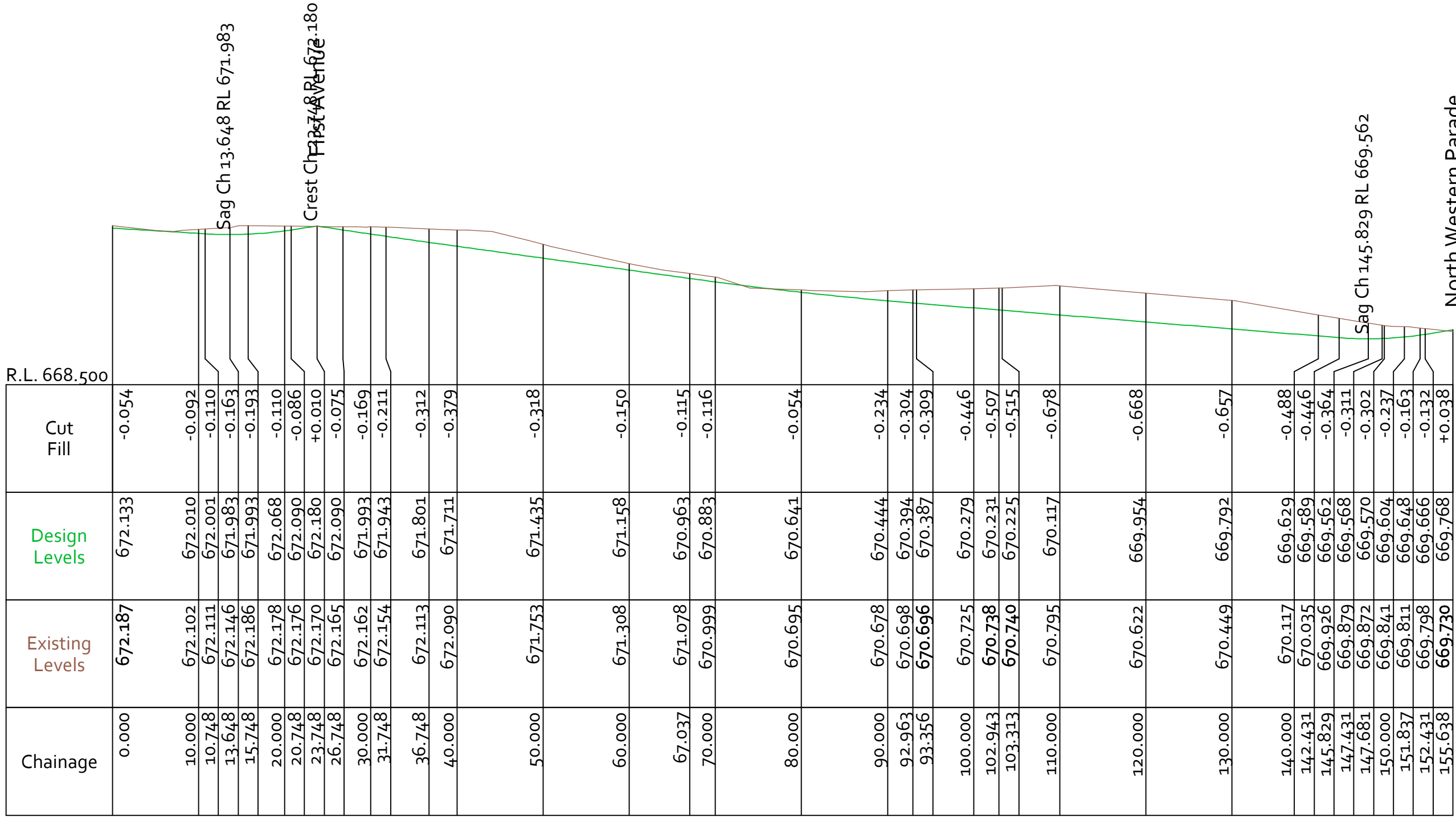
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 P.O Box 619 Goolburn, NSW 2580 E: sowdes@sowdes.com M: 0428 863 401	DRAWING REFERENCE		PROJECT TITLE:	TITLE PARTICULARS:	DRAWING DATE:	SHEET NUMBER:
	REVISION	DETAIL	REVISION DATE:	LOT 4 DP829578	July 2021	16 of 16
	A	ISSUE FOR SUBMISSION	01/07/2021		REFERENCE NUMBER:	DRAWN BY:
					0080420	PJ
					DRAWING SCALE:	SHEET SIZE:
			DRAWING TITLE:	STREET ADDRESS:	As Noted	A1
			INTERNAL ROAD DESIGN LONG SECTION DETAILS - 2 of 2	6 WISEMAN ROAD BOWRAL. NSW. 2576	DRAWING REFERENCE NUMBER:	
					0080420-01P	

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DESIGN LONGITUNDINAL SECTION DETAIL FOR THIRD AVENUE
SCALES: HORIZONTAL 1:500 VERTICAL 1:100



DESIGN LONGITUNDINAL SECTION DETAIL FOR SECOND AVENUE
SCALES: HORIZONTAL 1:500 VERTICAL 1:100