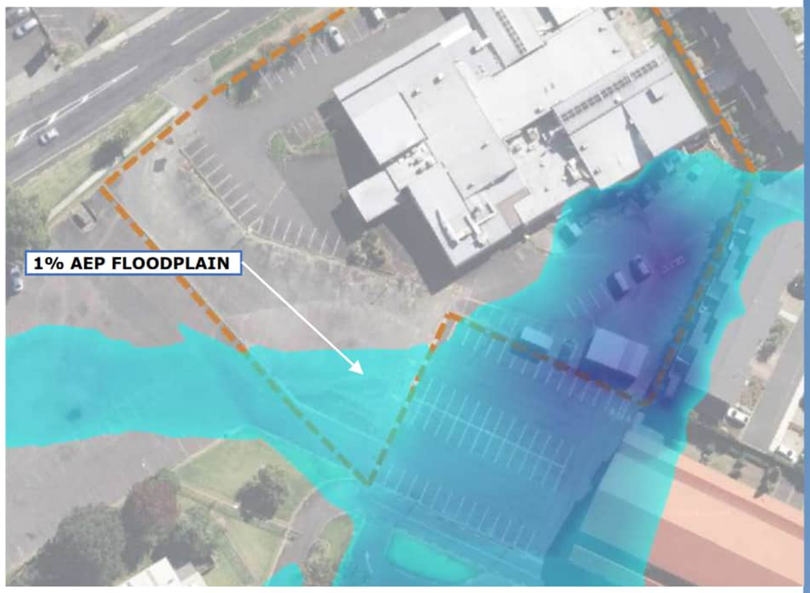
flowpath
ENGINEERING CONSULTANTS

CAPABILITY STATEMENT

www.flowpath.co.nz







CIVIL ENGINEERING FLOOD REPORTS SUBDIVISION CONSTRUCTION



COST EFFECTIVE CIVIL ENGINEERING

LET US SORT YOUR CIVIL

Flowpath Engineers specialise in designing practical civil engineering solutions for new and existing developments. **Find out more** about our engineering services and how we can provide the technical solutions to move your project forward.



STORMWATER, WASTEWATER AND WATER SUPPLY



CONSTRUCTION MONITORING AND SIGN OFF



RESOURCE CONSENTS, EPA'S, BUILDING CONSENTS



ROADING, RETAINING AND FLOOD REPORTS

OUR TEAM



CAREY SENIOR
DIRECTOR



UPUL HETTIAPPU
SENIOR CIVIL ENGINEER



DIJO JAMES
CIVIL ENGINEER

KEY METRICS (2019-2025)

- 1700+ units/houses submitted for consent in support of subdivision or development
- Residential, Industrial, and Commercial develoments
- Approx 95 different developments for social housing, Kainga Ora (850+ units), or their Build Partners

Our team of focused, competent, and friendly professionals are valued for our depth of knowledge, experience, and easy communication. We take complex engineering issues and provide a smooth, collaborative experience through good design and the latest software.

With creativity and precision, we deliver innovative solutions to achieve our client expectations. We use CAD and modelling software to design and execute projects, continually keeping up with the latest industry advancements. At Flowpath we consider ourselves partners in your vision, committed to creating lasting, high-quality solutions for every project we undertake.

Join us as we build a better future, one project at a time.

PROJECTS

AUCKLAND, Remuera

15 Luxury Residential Apartments



Resource Consent, EPA, Building Consent, Construction, Sign-Off

This 6-storey apartment development was challenged by lack of a stormwater connection, but Flowpath demonstrated a suitable solution using a discharge to kerb. Stormwater mitigation was a key component, and with strong team collaboration, the in-slab pods were included from an early stage. The driveway access was challenging (two level carpark with separate entries off the same street).

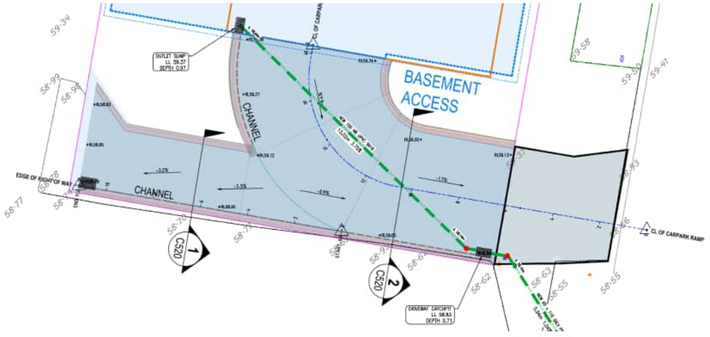
Flowpath undertook all Civils scope including stormwater design, detention tanks, wastewater servicing, potable water, driveway design, earthworks, erosion and sediment control implementation, and addressing the overland flow paths.

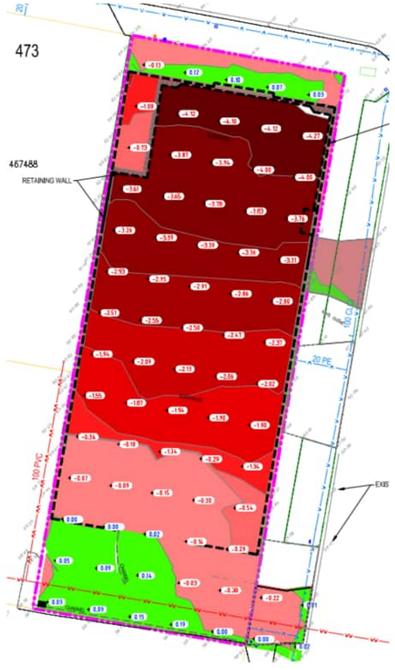
While we supported the consent stages, we also undertook civil construction observations and certifications. Project completed successfully!











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PROJECTS

AUCKLAND, Totara Vale

10 Lot Residential Development





Subdivision, Resource Consent, EPA, Building Consent

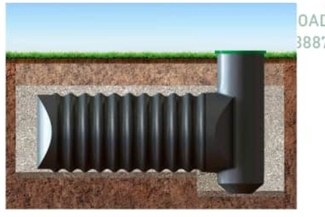
Flowpath scope of work included stormwater design, detention tanks, wastewater servicing, potable water, shared driveway design, earthworks levels, erosion and sediment control implementation, and addressing flooding and overland flow paths. We designed effective drainage and wastewater solutions, safe and suitable driveway access, land grading, erosion prevention, and mitigation of flood risk for the development.

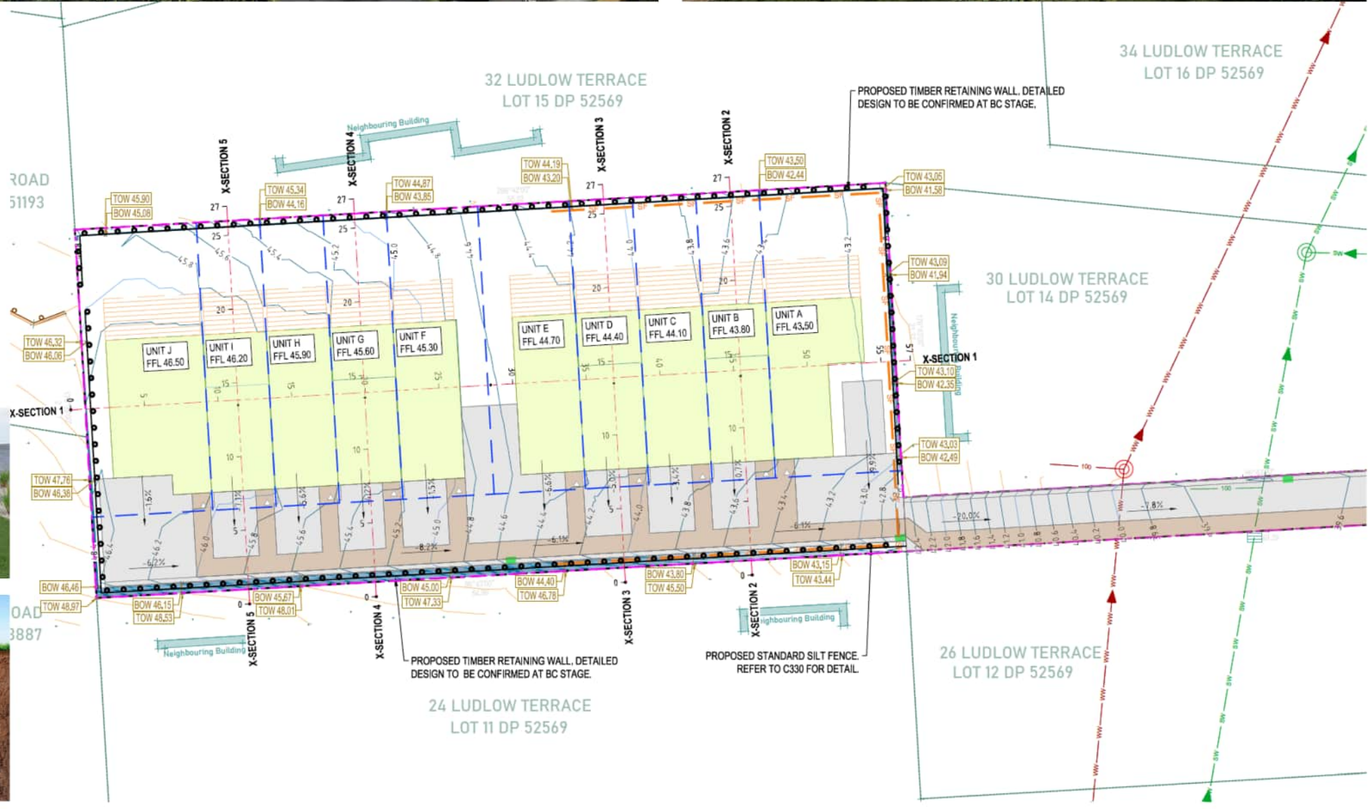
This was a tight development set in steep terrain, so fitting in all of the stormwater underground tanks, timber pole retaining walls and drainage pipes was a challenge,

The outcome reflected a well-coordinated team performance.









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PROJECTS



AUCKLAND, West Harbour

22 Lot Residential Development

Subdivision, Resource Consent, EPA, BC, Construction Obs.

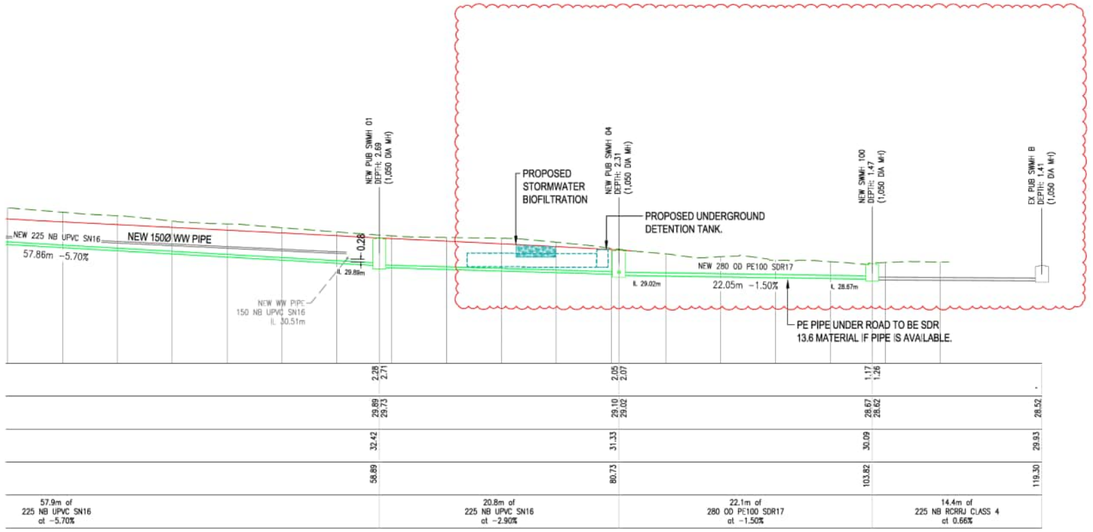
Flowpath scope of work included stormwater mitigation (retention and detention tanks), water quality (biofiltration), wastewater servicing, potable water, shared driveway design, and earthworks.

We prepared an **Erosion and Sediment Control Plan** as well as a site specific **Stormwater Management Plan** that has been adopted by Auckland Council.

We worked closely with the Build Partner (Signature Construction) to monitor the civil works and certify the various construction elements and completion certificates.







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PROJECTS

AUCKLAND, Dairy Flat

High End Rural Subdivision







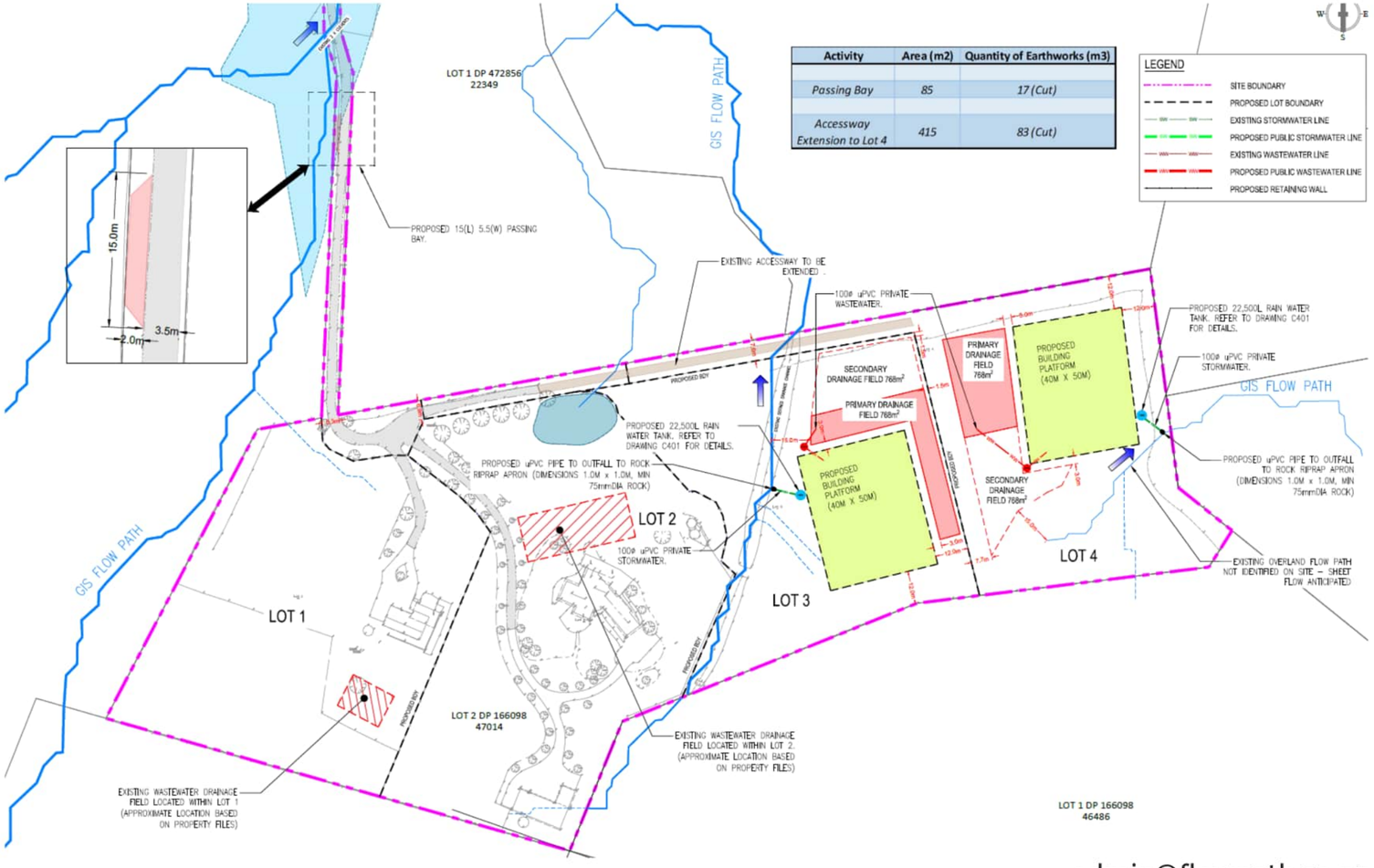
Subdivision, Resource Consent, EPA, Building Consent

Flowpath scope of work included **stormwater** design, **on-site wastewater** treatment and disposal, **potable water**, shared **driveway** design for a long right-of-way, earthworks , erosion and sediment control implementation, and assessing flooding and overland flow paths.

The civil design needed to integrate with the ecological assessment for driveway access across an ephemeral stream, which we included a culvert crossing.

This was a high-end development in beautiful rural countryside living zone. The client took no shortcuts in implementing and landscaping this outstanding subdivision. Flowpath was involved from feasibility through to completed construction.





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PROJECTS

AUCKLAND, Mt Wellington

5 Lot Terraced Subdivision

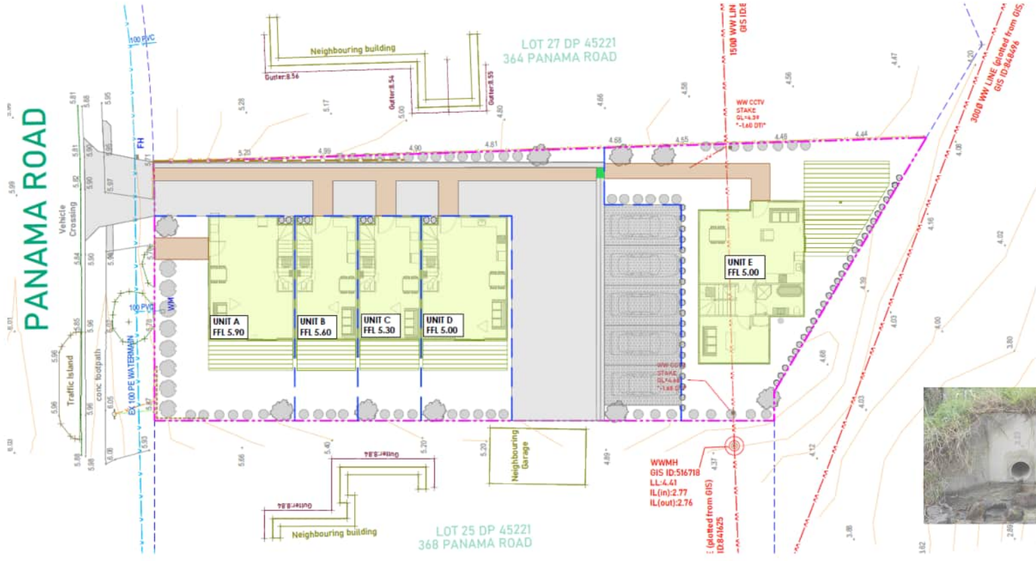


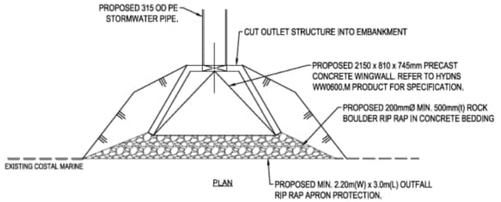


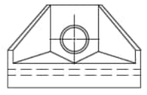
Subdivision, Resource Consent, EPA, Building Consent

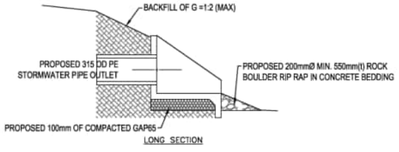
This modern 5-lot residential development was rapidly designed and proceeded through to a quick and smooth construction. Flowpath designed stormwater and wastewater servicing, potable water, shared driveway and permeable parking. We also ensured that earthworks and erosion and sediment controls were readily implemented in a practical and efficient design. Site stormwater was design to discharge to a new public pipe outfall within the Tamaki estuary.

This project required excellent communication with the architect and with Council and Auckland Parks team to provide a suitable stormwater outfall that met the requirements of all parties.











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PROJECTS

AUCKLAND, Riverhead

19 Lot Lifestyle Block Subdivision

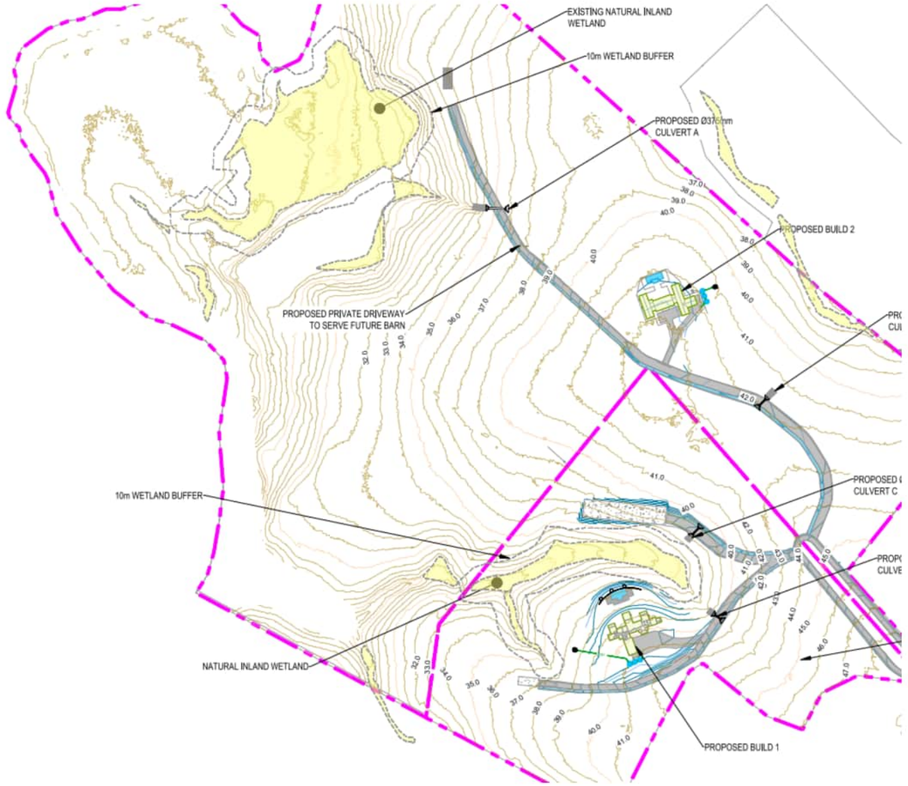
2 Stage Subdivision with Resource Consents, EPA & Building Consents

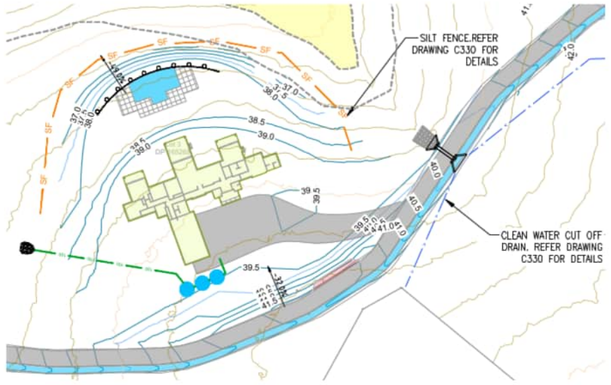
This development (ongoing) is creating spacious and much sought after rural lots in the Riverhead area. Flowpath have undertaken stormwater design, on-site wastewater, potable water, shared right-of-ways and earthworks.

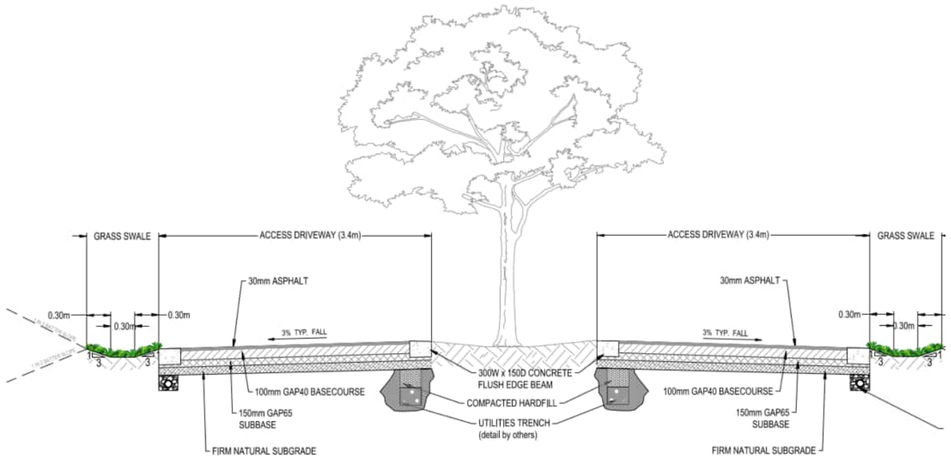
A close partnership with the developer and early contractor engagement has minimised earthworks, as well as optimising erosion and sediment controls near sensitive wetlands.

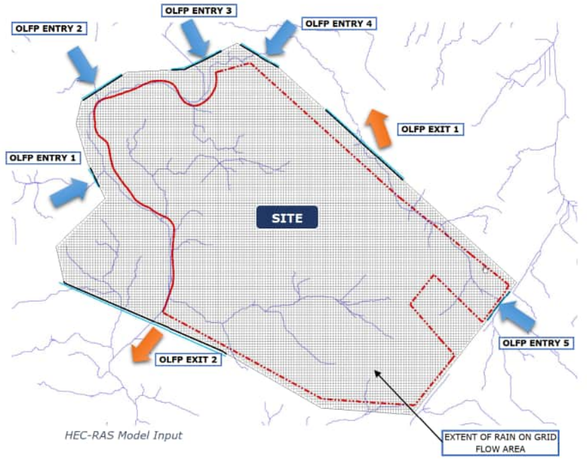
The **flood risk assessment** has been modelled in **HEC-RAS** to provide a robust understanding of future flow depths and velocities.











HEC-RAS Model Input

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