

Appendix F: Urban Design and Landscape Concept



05

SENSE OF PLACE

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SENSE OF PLACE PURPOSE

The purpose of the Sense of Place Statement (SOPS) is to outline what is culturally essential to the precinct. It will then act as a guide to ensure that any design decision making for the project aligns with these identified values.

PLACE VALUE

METRONET sets out to deliver station precincts with public realm infrastructure that contributes to communities with a sense of belonging and support Perth's growth and prosperity. To achieve this, the Armadale Station Precinct needs to be more than just a space for transport – not a stand-alone area or space that feels anonymous, but a place that feels occupied and 'owned' by the communities it services. It should be a living place, with an authentic character that reflects the spirit of the place and the community. This requires a Sense of Place that the community can connect with, generating local pride and care.

Achieving an embedded station precinct has benefits for all users, travellers and local community alike. It will make the place safer, cared for, activated by more people and more engaging to spend time.

A distinct Sense of Place, meshed into the urban and social fabric, also has economic benefits. In the current world, urban centres are no longer functioning just for their own 'catchment'. People want experiences, and for that they easily travel outside the traditional localised catchments. Urban centres have the potential to work much like the beaches in Perth. People have their favourite beach that they frequently visit. But they also visit other beaches, because of their different character, atmosphere and amenities.

Embedded station precincts with a distinct Sense of Place contribute to this different experience. They attract people, to visit, work, live and invest in the precinct. This both stimulates the urban economy and creates a competitive advantage for the precinct over others.

THE SENSE OF PLACE STATEMENT:

- Focuses on the feel and experience of the place, not describing planning terminology;
- Needs to be distinct; if the statement could also be applicable for another station precinct in Perth, it is not representing this place sharply enough;
- Is developed based on the analysis of the local character; and
- Is to be used as an inspiration and touchstone for all further design works of the station precinct; all engineering, architectural and landscape designs and detailing contribute to making the Sense of Place a lived experience.
- Is developed as a combination of three qualities. In their interaction they define a unique Sense of Place. Every aspect of the design should somehow relate to all three qualities.
- Follow the delicate balance of being descriptive enough to define a Sense of Place, but be poetic and open enough to offer the flexibility for architects, landscape architects, engineering designers and public artists to interpret.

Source: Byford Rail Extension – Concept Design, 'Armadale Station Precinct Preliminary Place Plan', WSP/PLACE Laboratory (2021) (BRE-MNO-WSP-PL-RPT-0003)

LINE-WIDE SENSE OF PLACE

The Sense of Place Statement is supplemented by themes and stories. This framework for the integration of stories into the engineering, station and public realm design takes a project-wide approach, drawing inspiration and advice from the METRONET NCCD, and the Place Plans as well as desktop research.

Armadale and Byford are in geographic proximity and so there are some stories and values that are shared and some that are specific. This project-wide approach responds to the shared / specific nature of the BRE project.

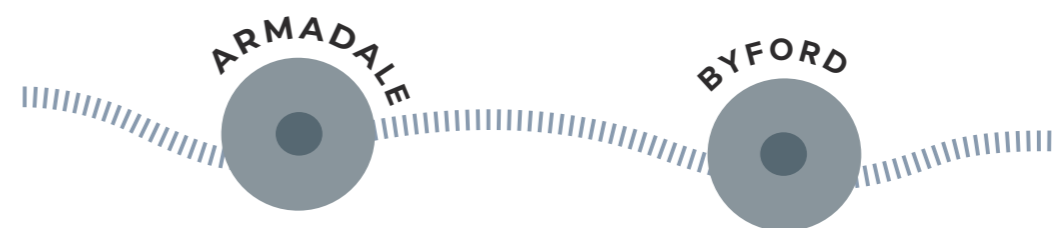
The SOPS, Themes and Stories are then used to guide the conceptual design of all public realm and built infrastructure supporting the Inner Armadale Line, stations and precinct areas.

The approach ensure the SOPS, Themes and Stories guide interpretive elements, public artwork, landscape design, station architecture, and engineering, revealing and supporting culture, history, landscape and place. This approach to public realm delivery runs across the BRE project using a framework of key themes, and connected and specific projects.



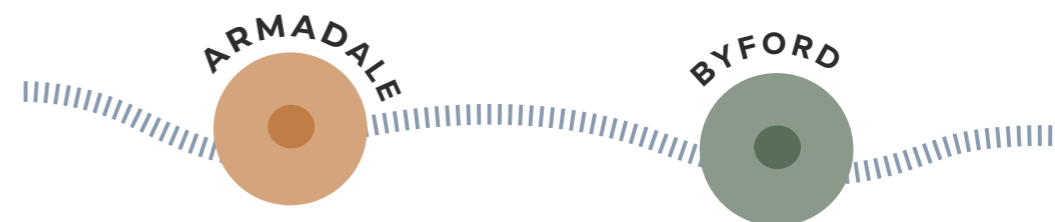
KEY THEMES

The Key Themes for the Byford Rail Extension are high level motifs to which all of the stories can be connected.



CONNECTED STORIES

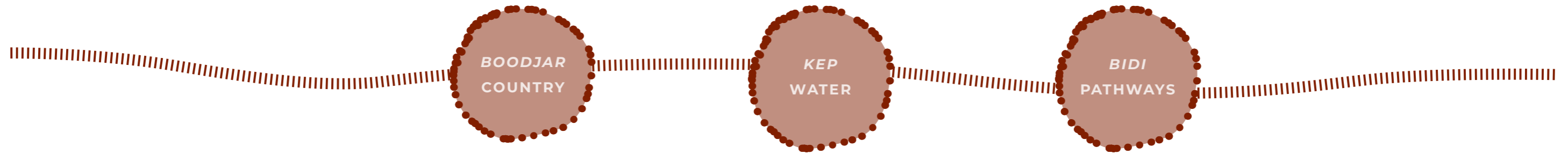
The Byford Rail Extension project shares common stories, values and public realm treatments that connect both project areas. These are predominately Noongar, paying respect to First Nations people and celebrating their unique culture. They are direct extracts from the METRONET NCCD – Byford Rail Extension. Connected stories will become identifiers for the Byford Rail Extension project.



SPECIFIC STORIES

Individual stories, values and public realm treatments that define and belong to Armadale or Byford as a unique place, or community are gathered together under the 'specific' heading. These can be related to each station and its surrounds. Specific works will become local place identifiers for the Byford Rail Extension project.

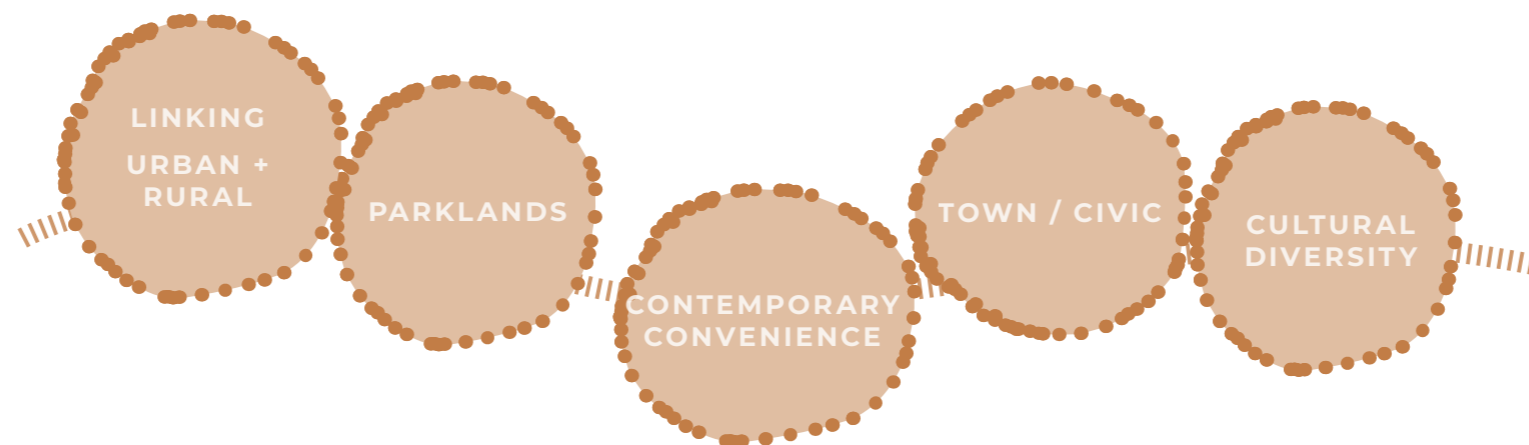
KEY STORIES – ARMADALE + BYFORD



CONNECTED STORIES – ARMADALE + BYFORD



SPECIFIC STORIES – ARMADALE



SENSE OF PLACE STATEMENT ARMADALE

ARMADALE

Within the Metropolitan rail network, Armadale Station currently sits at the end of a heritage line, moving into a bush-like experience. Traveling through the suburban setting, views to the Hills become apparent. Arriving at Armadale Station is arriving in the centre of town. It is a town that is growing into a city, as one of five Strategic Centres in the Perth Metropolitan Area.

Both history and the Hills present themselves straight away, with the old post office in front of the station, the topography of the streets and views to the Hills. It is a place to explore, to wander and discover gems like the specialty shops, the Monument Park playground, Minnawarra Chapel (1903), or the Neerigen Brook. It is also a place that is working hard to overcome challenges.

It is a place of connecting people, to jobs, to education, to past and future, to country, and to each other. All these elements, combined with the themes of the Beenyp NCCD, start to tell a story of place that is essentially Armadale.



HILLS TOWN

- / City With A Town Feel
- / Omnipresent Hills & Trees
- / Of The People
- / Human Scale
- / Civic
- / Contemporary
- / Convenience

Hills Town refers to the city at the foothills of Moorda. Where Fremantle is a 'port town' and Kalamunda a 'hills village', Armadale is the only city centre in the metropolitan area directly connected to the hills. It is a 'city' in function and a 'town' in feel.



CONNECTING

- / Grounded
- / Open & Inviting
- / Bridging Differences
- / Growing
- / Urban + Rural
- / Coastal Plains + Darling Scarp

This is a place of connecting in many different ways - physically linking places, connecting people, advancing from anonymity, relating to past and future, telling stories. The place relates to both 'corroboree grounds' gathering and to rail holding yards, where products were connected to their next destination in Perth and Fremantle.



REVEAL

- / More Than The Eye Can See
- / Not Obvious
- / Discover
- / Surprise

Although it is easy to find your way, Armadale has hidden layers: places to discover, interesting people, diversity of destinations, waves of activities, many things that make the centre attractive to go to, to stay and to revisit. There is always something to explore.

Source: Byford Rail Extension – Concept Design, 'Armadale Station Precinct Preliminary Place Plan', WSP/PLACE Laboratory (2021) (BRE-MNO-WSP-PL-RPT-0003)

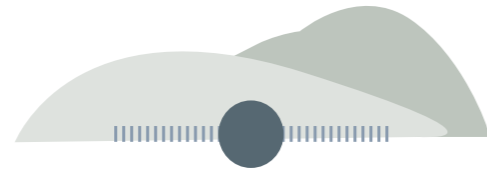


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FINAL PLACE PLAN

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PLACE PRINCIPLES

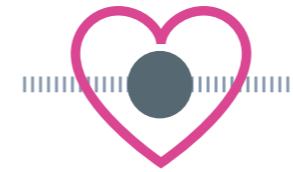
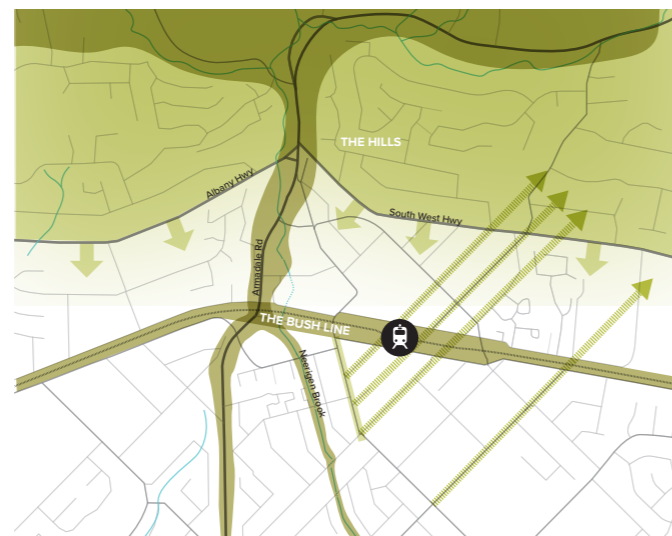


HILLS TOWN

The station precinct enhances the Hills Town character of Armadale City Centre, providing scenic views to the Hills, celebrating topography and adding an abundance of trees for shade and cooling.

DESIGN RESPONSE:

- Enhancing the 'bush' character of the rail line (see page 27) by retaining mature trees where possible in the station precinct and adding an abundance of new trees and soft landscaping in and about the station.
- Celebrating the topography in the precinct as a natural part of the public realm, minimising the use of retaining walls, for instance, with the landscaped slope along the west side of the rail to enhance an urban forest edge.
- The new elevated platform allows for vistas to the Darling Scarp, providing a strong visual connection to the Hills.
- Selecting local and natural species for all new trees, further strengthening the Hills connection.

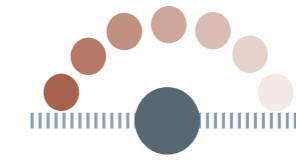


CITY LOOP AND CONNECTIONS

The station precinct contributes to improving loops for people to explore the city with all its diversity, and enhances connectivity across the rail.

DESIGN RESPONSE:

- The connection to Jull St Mall is improved with direct views from the station entrance through to the old post office, and an improved pedestrian experience crossing Commerce Ave.
- Creating an active and narrative-rich parkland route from the station towards Minnowarra Park, adding a new tourism route to the City Centre, and completing the city axis into a full city loop.
- The viaduct removes the at-grade crossings at Church Ave, Armadale Rd and Forrest Rd, greatly improving access to the city centre for all modes of movement.
- The elevated rail improves the pedestrian connectivity across the rail corridor from a few single points to multiple fine-grain opportunities.

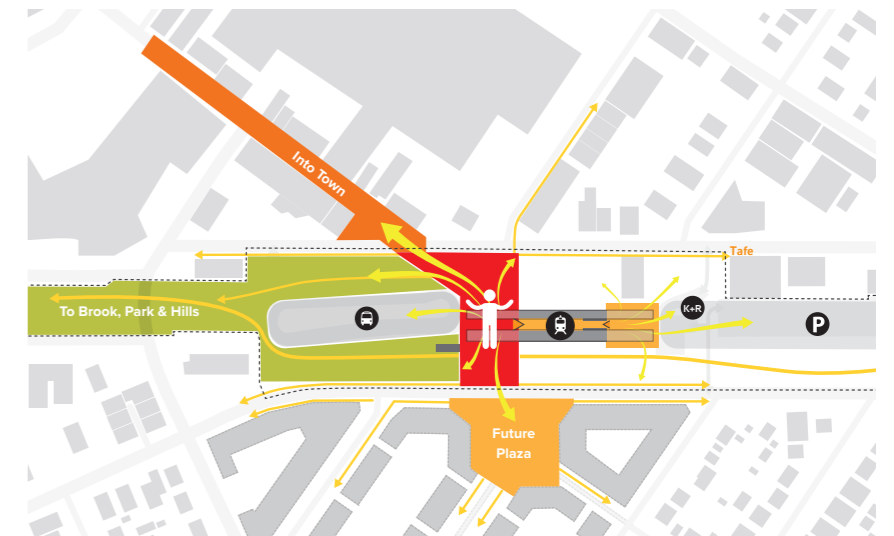


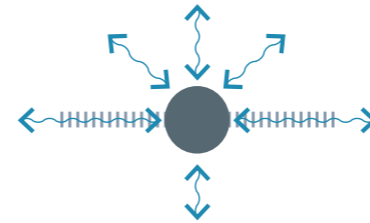
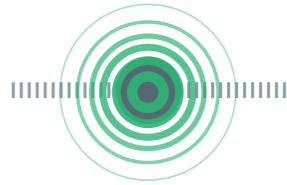
WELCOMING

The station precinct is a welcoming place that opens out and connects people to both the existing city centre and the future residential area on the west side of the rail.

DESIGN RESPONSE:

- A high-quality designed Station Plaza / Welcome Place creates the feeling of being welcomed in to the City of Armadale.
- The Welcome Place 'hub' design continues across Commerce Ave, connecting to Jull St Mall with prioritised pedestrian crossings.
- The Welcome Place and parklands provide amenities and attractive spaces for various audiences, welcoming all walks of life.
- The connection between the Welcome Place and the bus interchange is at-grade, without stairs, improving access and comfort for transfer.
- The station precinct provides comfortable and weather-protected connections.
- The new PSP, combined with secure bike storage, welcomes cyclists to the station. The PSP considers cross-precinct connections into existing networks.



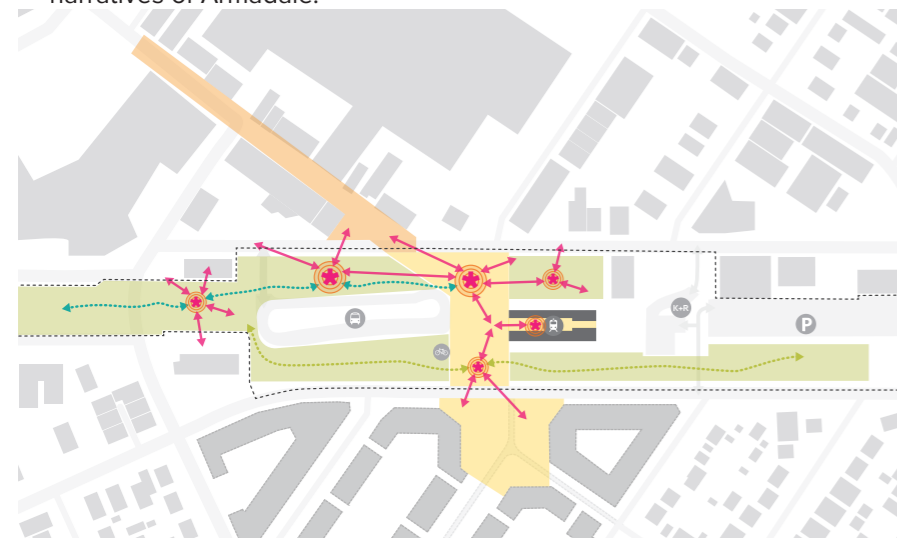


STAGE FOR LIFE

The station precinct includes inviting community places on both sides of the rail, for people of all generations and cultures to come together in a vibrant, safe and engaging setting to interact and share stories.

DESIGN RESPONSE:

- Increasing the tree canopy to the station precinct assists in reducing the urban heat island effect, essential to creating a cooler micro-climatic environment for urban life to be encouraged in and around the station.
- The Welcome Place is designed with amenities that are attractive to all including local community, youth and visitors to Armadale – public accessible Wi-Fi, playgrounds, basketball areas, skate-able furniture, hang out zones – create a platform for youth to contribute to the City's liveliness.
- Pedestrian connections in all directions are integrated, adding people's presence to the station precinct, strengthening the base for attracting and inviting people to use and experience the place, because people attract people.
- A variety of seating opportunities, formal and informal, that support people to stay and socialise.
- Linear parklands under and along the viaduct provide a variety of experiences and recreational uses that describe urban stories and narratives of Armadale.

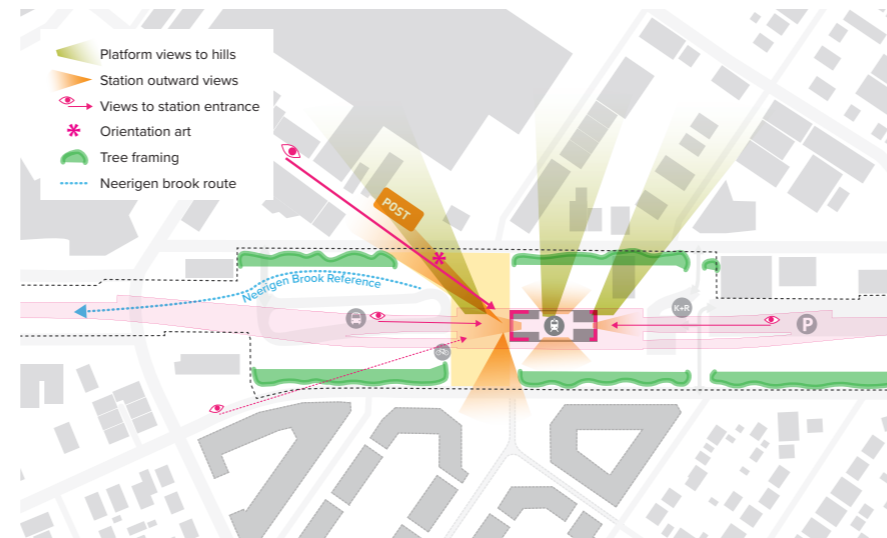


INTUITIVE WAYFINDING

Clear view lines from and to the station overpass are the base for the intuitive wayfinding, and are supported by comfortable and logical pedestrian routes.

DESIGN RESPONSE:

- Views from the station platforms to the hills and City provide intuitive ways for public transport users to orientate themselves in the Armadale centre at arrival.
- A de-cluttered Welcome Place provides clear views to all surrounding destinations. A direct viewline to the old post office and Jull St Mall, highlight the City Centre.
- A wayfinding public art work in the viewline of Jull St Mall marks the station location from far within the City centre. Closer by, Jull St Mall has direct views to the station entrance.
- The new landscaped walk to the north, along the rail corridor, provides an easy-to-follow route to Minnowarra Park, the heritage precinct and on to the Hills.
- Views from the surrounding to the elevated rail viaduct indicate the station's location. Closer by, the tree-lined streets open up to the Welcome Place.

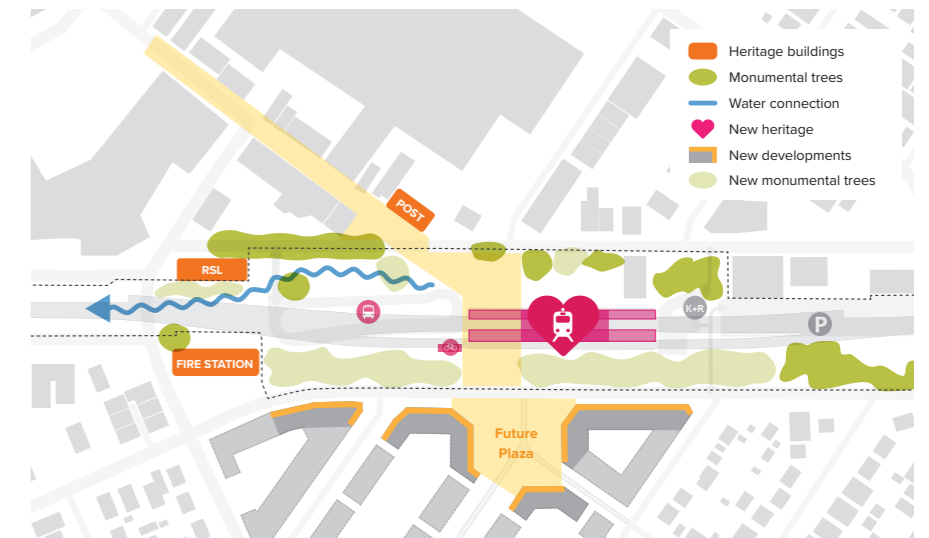


LIVING HERITAGE

The station precinct acknowledges the town's rich heritage and Noongar culturally significant places. It is a place that reveals layers of history, while also connecting to the future.

DESIGN RESPONSE:

- First Nations' values are celebrated with integrated art and Gnarla Biddi cultural references embedded into the design of the public realm and public art approach.
- The 'heritage gardens' between the historic RSL and Fire Station seek to reference the history of Armadale, creating interest for Armadale residents and tourists alike.
- Retention of mature native trees and complementing them with seating and story-telling strengthens the heritage tree walk and connection to the natural landscape.
- Visible stormwater capture and public water-art acknowledges the significance of water to Noongar culture and creates links to the Neerigen Brook.
- Designing the Welcome Place as a key pedestrian 'hub' environment that is part of the surrounding streetscape contributes to the future development of residential density west of the station precinct.



STATION PRECINCT SPACE TYPOLOGIES

Core to METRONET is to deliver technically and operationally well-functioning rail and bus infrastructure within budget. In addition, METRONET has set the goal to achieve more than that. METRONET also aims to deliver easily accessible travel options, communities with a sense of belonging and to unlock development potential around the stations.

To translate these objectives into tangible requirements, the Place Plan is focussing on achieving three touchstones:

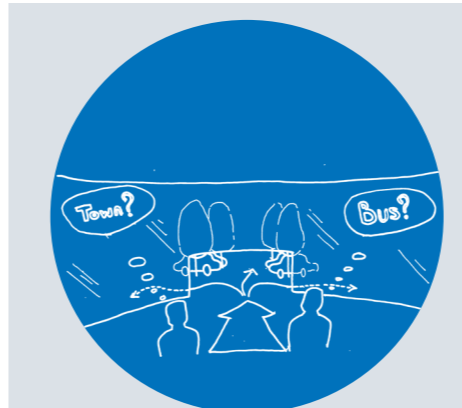
- Smooth and comfortable transfer
- Pleasant and meaningful time spending
- Embedded in the community

These qualities need to be achieved within the localised context of the station infrastructure, including the train station, bus interchange, park and ride, and the public realm types that connect these places to each other and to the surrounding urban network: the welcome place, the streets and the parks and landscape zones.

The plans to the right indicate the layout of these spatial typologies within the Armadale station precinct. The following pages state what experiences these spaces should provide, through defining the Sense of Place that should be achieved through the design, the functioning of the places on Day 1 of delivery and the spatial vibe or aesthetics. The following Public Art Strategy further supports these experiences. The Landscape Concept at the end of this chapter provides a high-level demonstration how the place requirements can be translated into a physical design for the public realm.

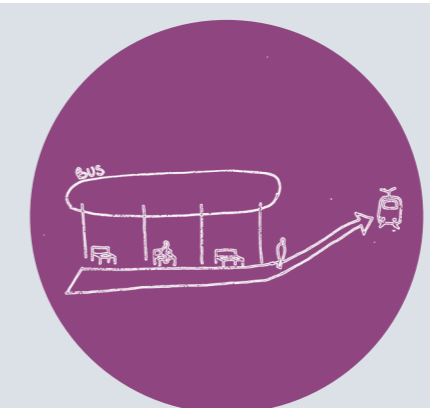
Source: Byford Rail Extension – Concept Design, 'Armadale Station Precinct Preliminary Place Plan', WSP/ PLACE Laboratory (2021) (BRE-MNO-WSP-PL-RPT-0003)

TRANSPORT BASED SPACE TYPOLOGIES



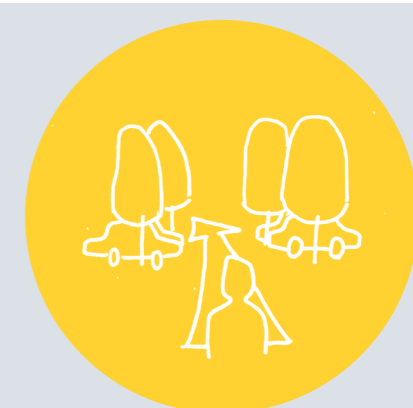
TRAIN STATION

As people arrive at the train station the experience must be quick and easy. The space needs a design organised around smooth flows and intuitive wayfinding - no searching for where you need to go to, but a space that provides all the clues before relying on signage.



BUS TRANSFER / STATION

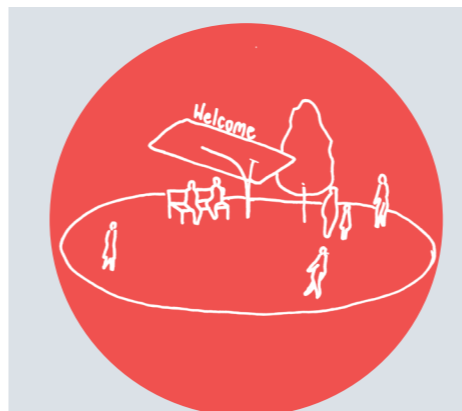
The bus transfer / station need to be easily identifiable for travellers. It needs to accommodate the technical requirements of buses, without compromising the vibrancy of people's places. It should incorporate seating, shade, lighting and weather protection to ensure travellers' comfort and safety.



PARK AND RIDE

Car parking tends to take up large areas. It should not be a harsh environment, only accommodating large numbers of cars, but also needs provide for pedestrians' comfort and contribute to the surrounding (urban) landscape.

PEOPLE AND LOCATION SPECIFIC SPACE TYPOLOGIES



WELCOME PLACE

The welcome place is the core of the station precinct. It is the place where people arrive in the town or suburb, that shows the community's pride. It is also the place where people need to make decisions if they transfer. It needs to be appropriately connected and scaled.



MAIN STREET

The main street needs to have a direct relationship to the entry of the station precinct. This connection should provide a strong local presence, good accessibility to the station and connection to the Armadale to provide a sense of place. It should be 40km/hr speed limit and appropriate public domain treatments to signal its function.



CONNECTIONS TO LANDSCAPE

The pedestrian and cyclist linkages need to provide direct, comfortable, safe and prominent pedestrian / cycle connections between station entrances, kiss and ride and the key destinations both within the precinct and the greater surrounds.

FIGURE 29. STATION PRECINCT SPACE TYPOLOGIES

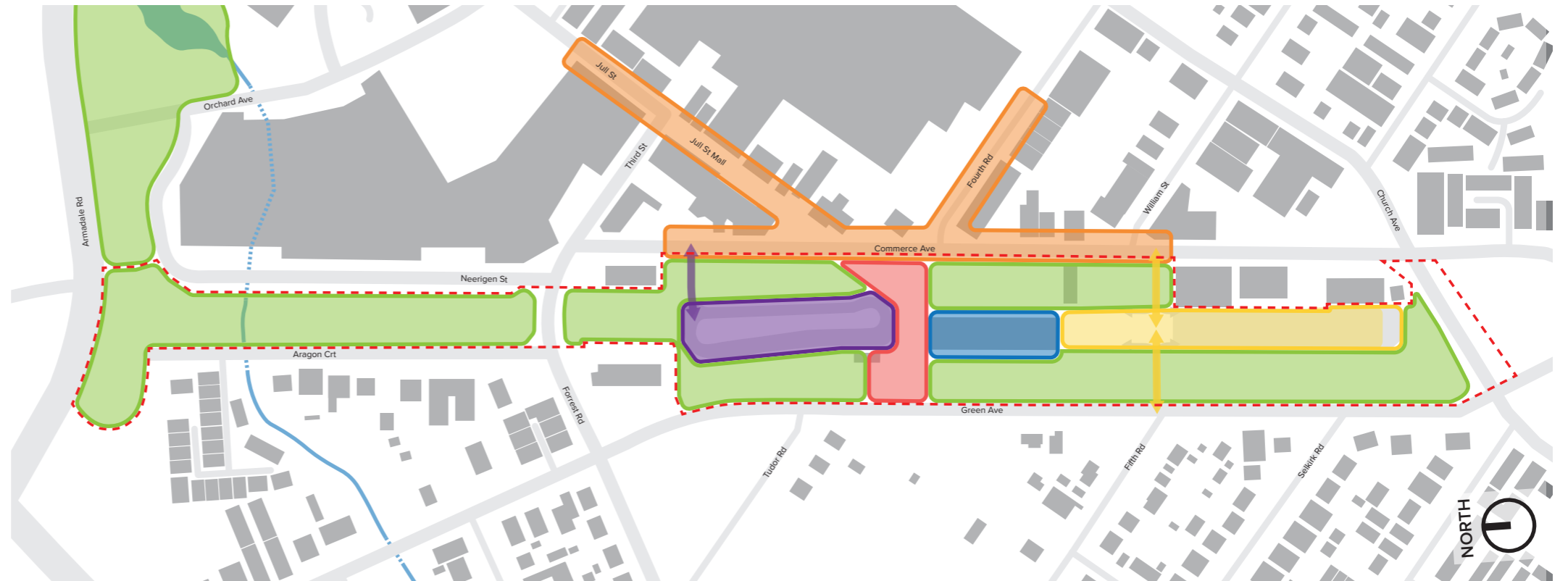


FIGURE 30. PLACE TYPOLOGIES – DAY ONE

LEGEND

- Train Station
- Welcome Place
- Main Street
- Connections to Landscape
- Bus Station
- Park and Ride
- Existing buildings
- Planned buildings
- Development potential

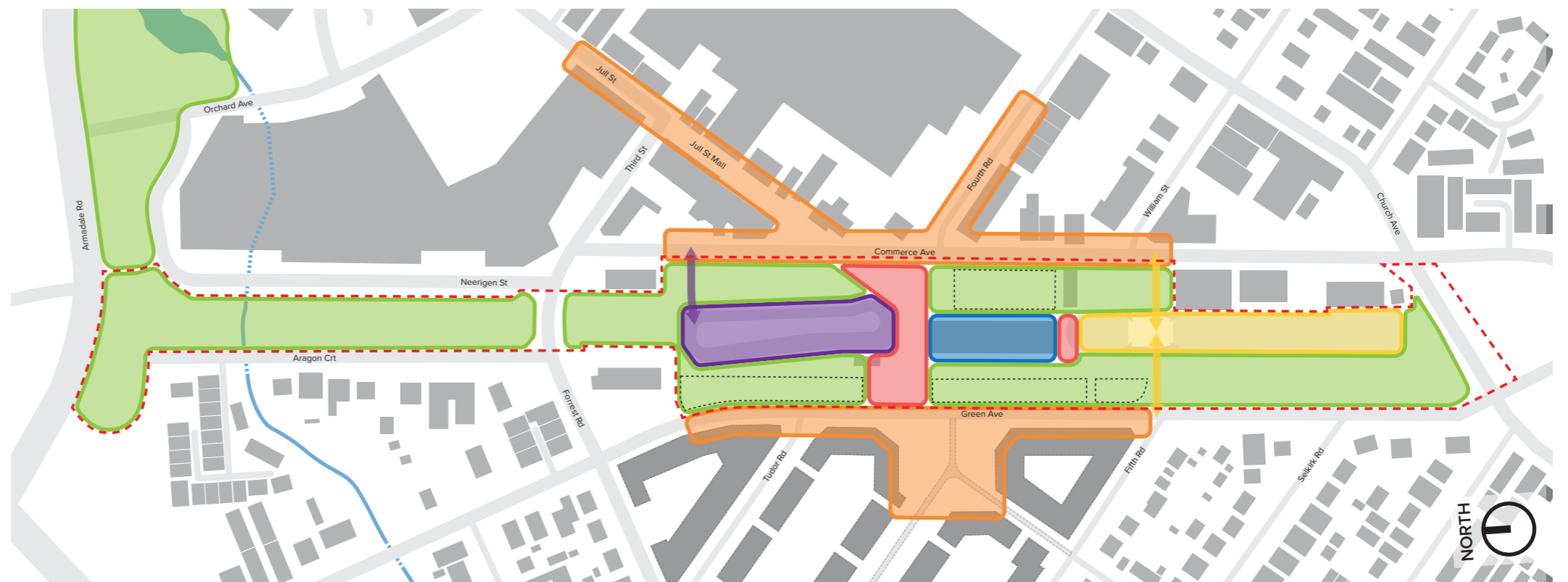


FIGURE 31. PLACE TYPOLOGIES – FUTURE

PLACE PLAN - DAY ONE

The place plan diagram highlights design considerations and actions to ensure Armadale Station is embedded in its urban and landscape context, from day one and into the future. The following pages demonstrate the intent to be carried through to detailed design.

LEGEND

| | | | | | | |
|--|---------------------|--|-----------------------|---|--|---------------------|
| | TRAIN STATION | | PSP | PLACE ACTIVATION BLACK = EXISTING / WHITE = NEW | | STATION AMENITIES |
| | RAIL VIADUCT | | PEDESTRIAN CONNECTION | | | FOOD & BEVERAGE |
| | BUILDING (EXISTING) | | CENTRE ROUTE | | | COMMERCIAL |
| | BUILDING (PLANNED) | | BUS STATION | | | COMMUNITY |
| | PLAZA | | ROAD (EXISTING) | | | PLAZA ACTIVITIES |
| | PARKLAND | | ROAD (PLANNED) | | | PARKLAND ACTIVITIES |
| | WATER | | CAR PARK & ACCESS | | | |



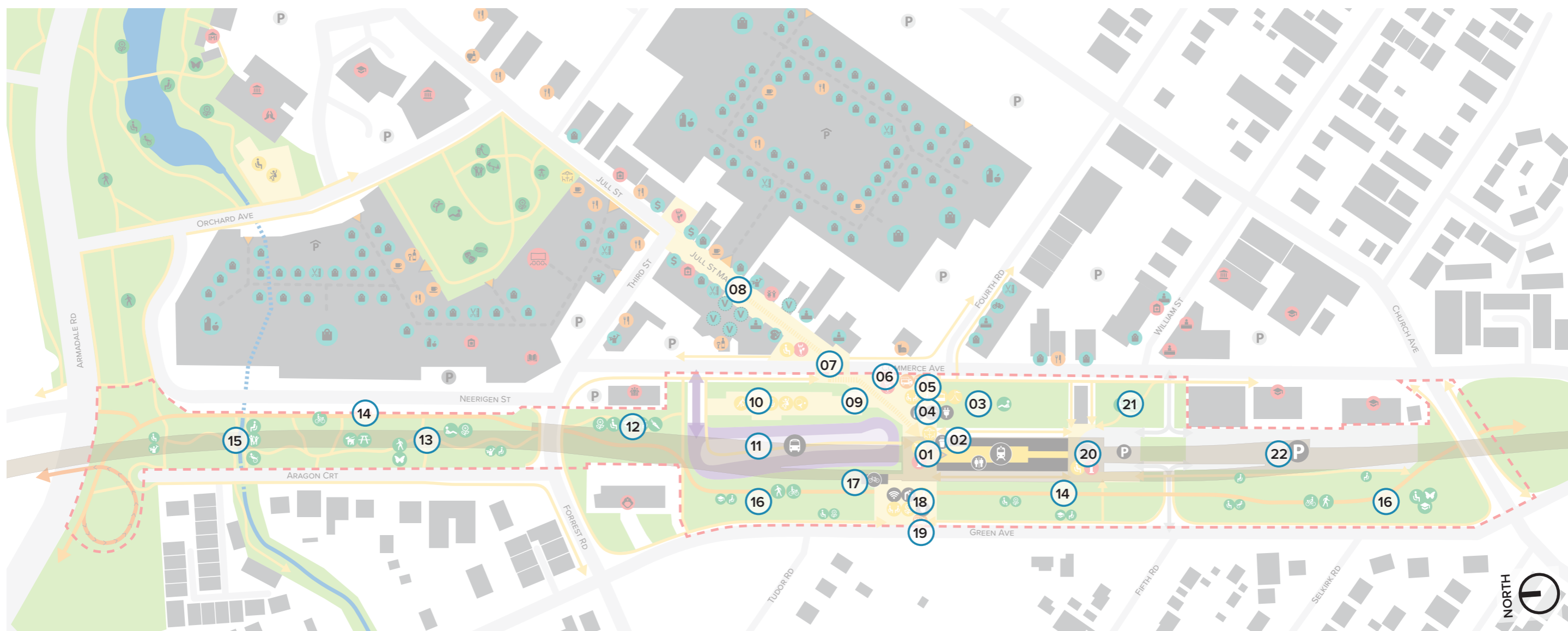
FIGURE 32. PLACE PLAN - DAY ONE

- 01 Meeting point and City information.
- 02 Proposed new station kiosk to provide activity and services to public transport passengers and the wider community.
- 03 Relaxation lawn, multi-use and events space with access to power and water.
- 04 Eastern Welcome Place 'hub' with seating, public accessible wifi, natural shade, and meet and greet environment.
- 05 Yarning circle with shade and proposed feature lighting; to be designed in collaboration with Noongar elders and artists.

- 06 Wayfinding art at view line of Jull Street Mall, incorporating public announcements and visitor information.
- 07 Shared space / pedestrian priority crossing linking the Welcome Place to Jull St Mall.
- 08 Revitalisation of Jull St Mall (by others).
- 09 Junior play space with interpretive water theme.
- 10 Youth plaza with amenities such as basketball, skate-able elements, drink fountain and hangout zones.
- 11 Bus station integrated under railway viaduct.

- 12 Educative heritage garden linked to the form and function of the RSL Club.
- 13 Linear parkland linking the station to Neerigen Brook and on towards to Minnowarra Park and the hills, with activities and attractions for residents, City-centre visitors and tourists.
- 14 Shared space and PSP with seating and dog walking options close by.
- 15 Neerigen Brook crossing with seating and more natural POS and water/drainage environment.
- 16 Linear remnant old growth trees with PSP.

- 17 Secure bike storage.
- 18 Western Welcome Place with seating steps, natural shade, accessible ramp and strengthened connection with western residents
- 19 Pedestrian priority crossing over Green Ave.
- 20 Meeting point, City information and Kiss'n'Ride.
- 21 Urban lounge and seasonal gardens.
- 22 Park + Ride carpark.



PLACE PLAN - FUTURE

FUTURE WITHOUT DEVELOPMENT IN THE RAIL ZONE

- 23 Widening of the rail viaduct to accommodate additional rail line and eastern station platform.
- 24 Second station entrance.
- 25 Future neighbourhood plaza connecting to Green Avenue and the Western Welcome Plaza, surrounded by mixed-use development.
- 26 Future medium-density residential development.
- 27 Future extension of Cornish Street and Devonshire terrace.
- 28 Children's adventure playground (subject to agreement between the State and Local Governments).

LEGEND

| | | | |
|--|-----------------------|---|---------------------|
| | TRAIN STATION | | BUS STATION |
| | RAIL VIADUCT | | ROAD (EXISTING) |
| | BUILDING (EXISTING) | | ROAD (PLANNED) |
| | BUILDING (PLANNED) | | CAR PARK & ACCESS |
| | PLAZA | PLACE ACTIVATION BLACK = EXISTING / WHITE = NEW | |
| | PARKLAND | | STATION AMENITIES |
| | WATER | | FOOD & BEVERAGE |
| | PSP | | COMMERCIAL |
| | PEDESTRIAN CONNECTION | | COMMUNITY |
| | CENTRE ROUTE | | PLAZA ACTIVITIES |
| | | | PARKLAND ACTIVITIES |

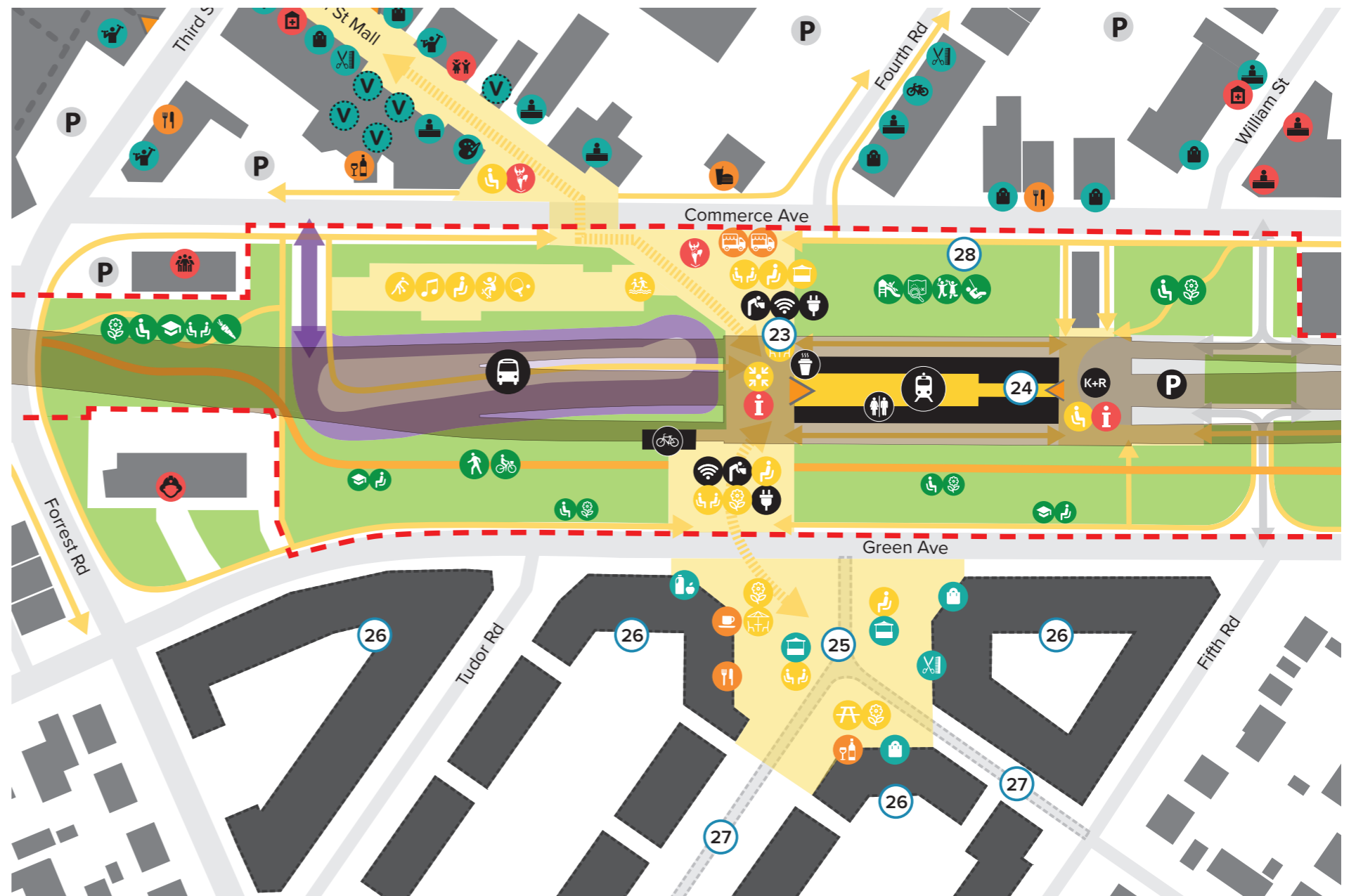
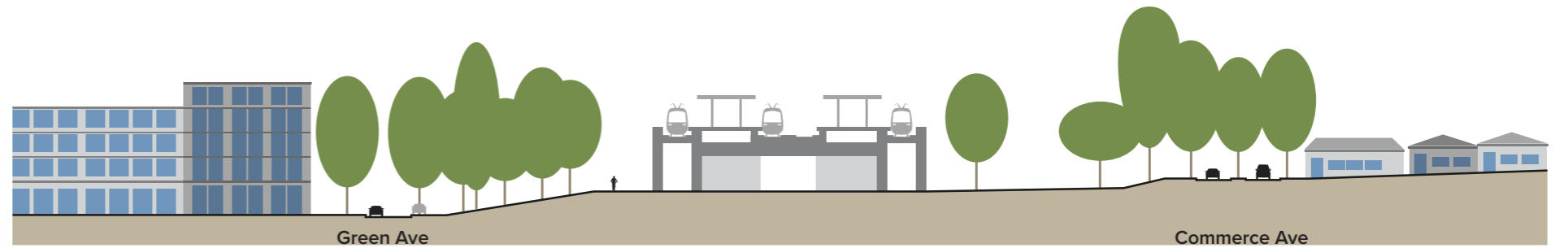
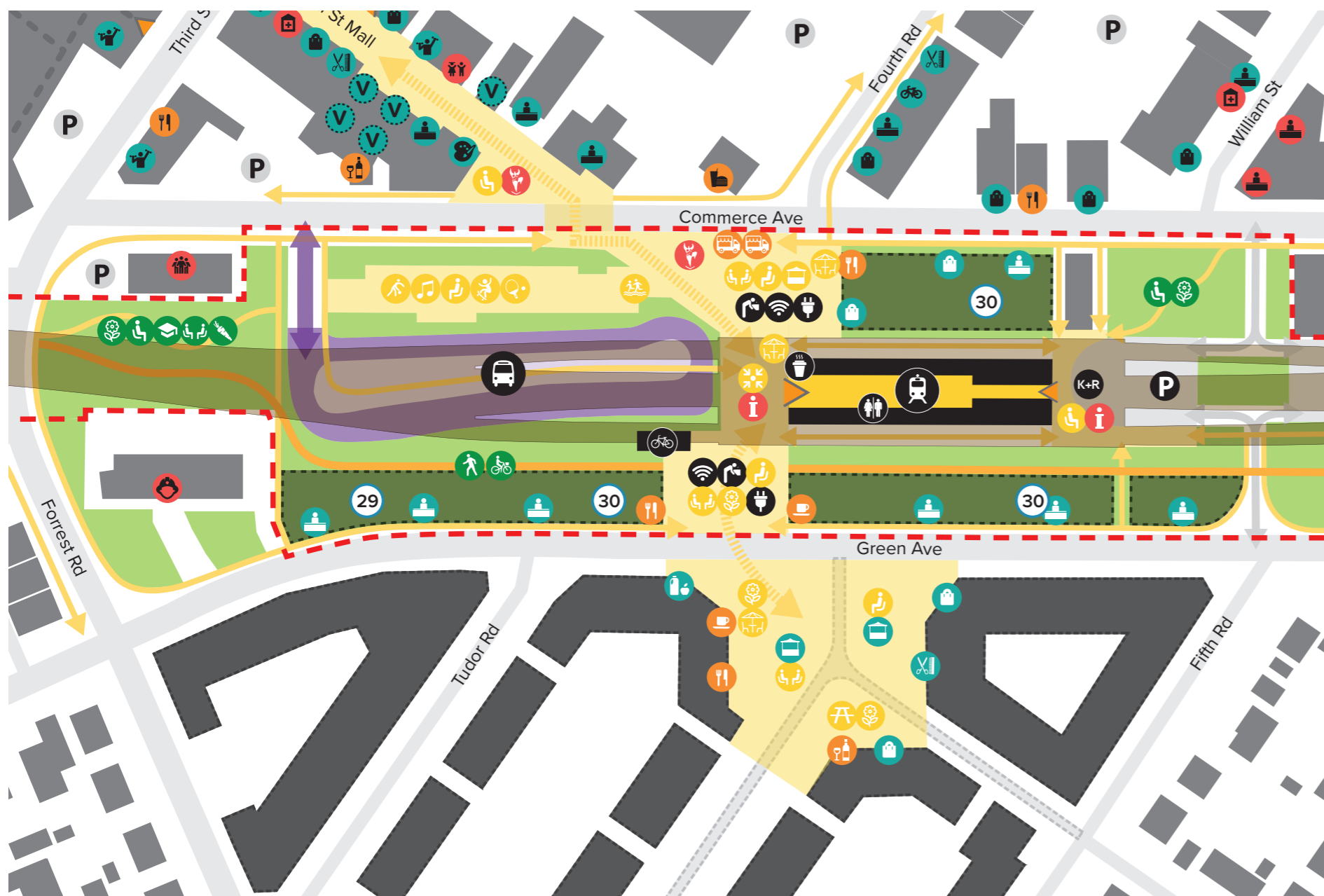
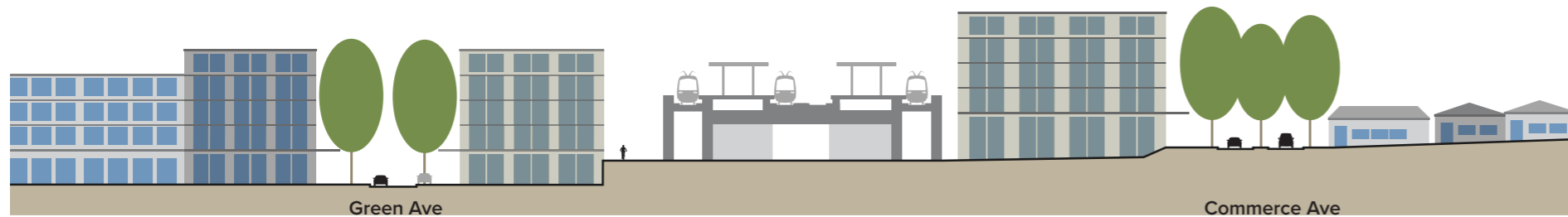


FIGURE 33. PLACE PLAN - FUTURE



FUTURE WITH ADDITIONAL DEVELOPMENT IN THE RAIL ZONE

- 29 Future development possibility to frame Green Avenue with multi-story buildings, in accordance with the Armadale City Centre West of Railway Precinct Structure Plan.
- 30 Future development possibilities to frame Green Avenue, building on the Armadale City Centre West of Railway Precinct intend and frame the Western Welcome Plaza (subject to detailed design at that time if pursued)
- 31 Future development opportunity to frame the Eastern Welcome Plaza and Commerce Avenue with active frontage (subject to detailed design at that time if pursued).

LEGEND

| | | | |
|--|-------------------------|---|---------------------|
| | TRAIN STATION | | BUS STATION |
| | RAIL VIADUCT | | ROAD (EXISTING) |
| | BUILDING (EXISTING) | | ROAD (PLANNED) |
| | BUILDING (PLANNED) | | CAR PARK & ACCESS |
| | DEVELOPMENT OPPORTUNITY | PLACE ACTIVATION BLACK = EXISTING / WHITE = NEW | |
| | PLAZA | | STATION AMENITIES |
| | PARKLAND | | FOOD & BEVERAGE |
| | WATER | | COMMERCIAL |
| | PSP | | COMMUNITY |
| | PEDESTRIAN CONNECTION | | PLAZA ACTIVITIES |
| | CENTRE ROUTE | | PARKLAND ACTIVITIES |

FIGURE 34. PLACE PLAN – FUTURE WITH DEVELOPMENT OPPORTUNITIES

DAY ONE STATION WELCOME PLACE

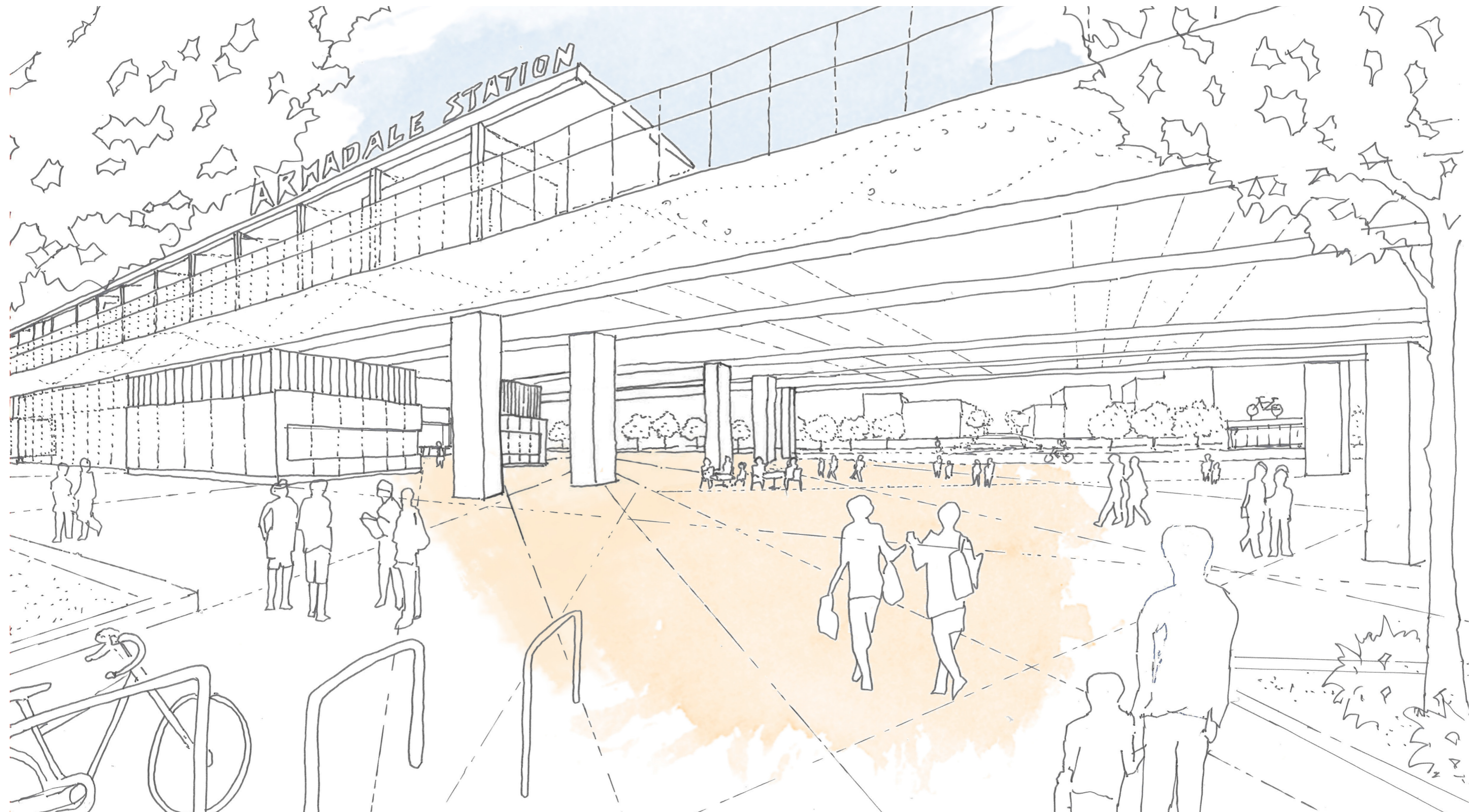


FIGURE 35. DAY ONE STATION WELCOME PLACE IMPRESSION

DAY ONE JOURNEYS AND ACCESSIBILITY

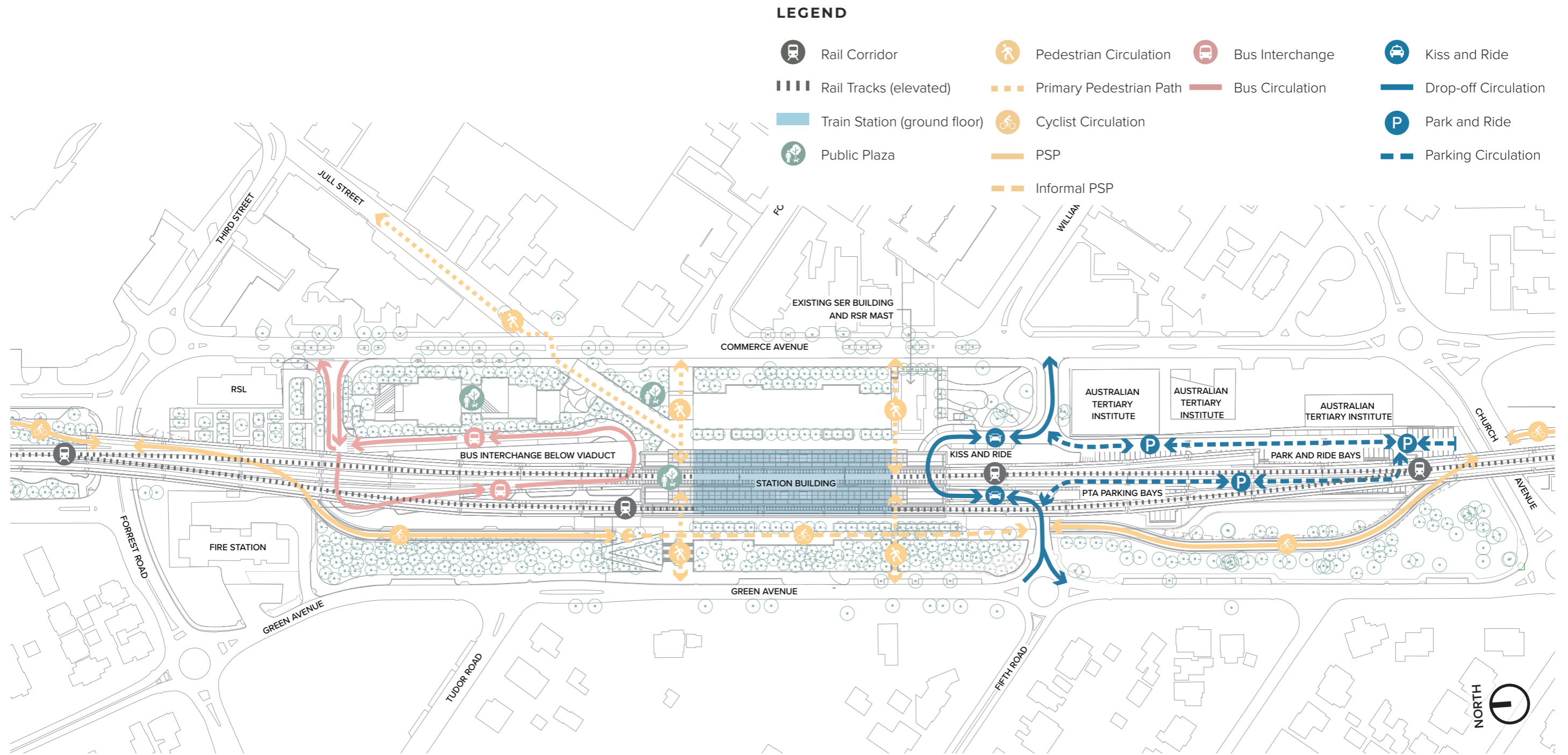


FIGURE 36. DAY ONE JOURNEYS AND ACCESSIBILITY



07

LANDSCAPE

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LANDSCAPE PLAN

DESIGN PRINCIPLES

This Landscape Design identifies high-level opportunities that will be further developed in the next stage of works for the BRE project.

The landscape design approach seeks to utilise the viaduct heights to allow for previously disused land to be reintroduced for community use as functional and safe recreational spaces. The goal is to encourage as many people to use these spaces as possible by creating a community-sought destination.

This also presents good passive surveillance due to its occupancy to surrounding streets and surrounding spaces for local residents, workers and the broader visiting community. The aim, critically, is not to hide the station through landscape but to complement its architectural form, to integrate with the existing surrounds and seek to engage objectives within the Urban Forest Strategy provided by the City of Armadale.

There needs to be provision for clear sight lines through the station grounds to encourage adjacent businesses and developments to respond to the precinct by opening out onto, rather than turning away and internalising their active edges.

The masterplan on the following page illustrates the station landscape design concept. From the station entry to the Jull Street Mall (east) and to Green Ave (West), the areas around the station should provide a generous arrangement of seating walls, turfed areas and small play space to encourage occupancy. The concept explores the development of a place to meet friends or to simply grab a bite to eat and 'hangout'. It also explores opportunity for small community events, fairs and food trucks. Though limited by infrastructure offsets, such as the rail viaduct, the placement of trees in and about the station is explored also in order to maximise natural shade and amenity.

The station precinct's public realm design focuses on providing a strong welcoming experience, a place to stay, meet, gather for events and provide linkages east/west and north/south through the landscape.

FIVE KEY DESIGN PRINCIPLES



01 CLEAR & INTUITIVE

I know where I'm going.
A generous and clear groundplane with an enhanced sense of arrival. Strengthen east/west connectivity



02 SAFE & WELCOMING

I feel safe. I can stay or just pass through at night or day.
Clear connections from beyond the precinct. Clear sightlines and lighting to enhance feelings of safety.



03 MULTI-FUNCTIONAL

Flexibility of the public realm to allow for a number of different uses & functions.



04 SIMPLE & ROBUST

Simple, robust and timeless treatments. Simple spaces provide opportunities



05 CULTURALLY INCLUSIVE

Spaces that promote social, cultural and knowledge exchange.

THREE LINEAR PROGRAMS

01 COMMUNITY

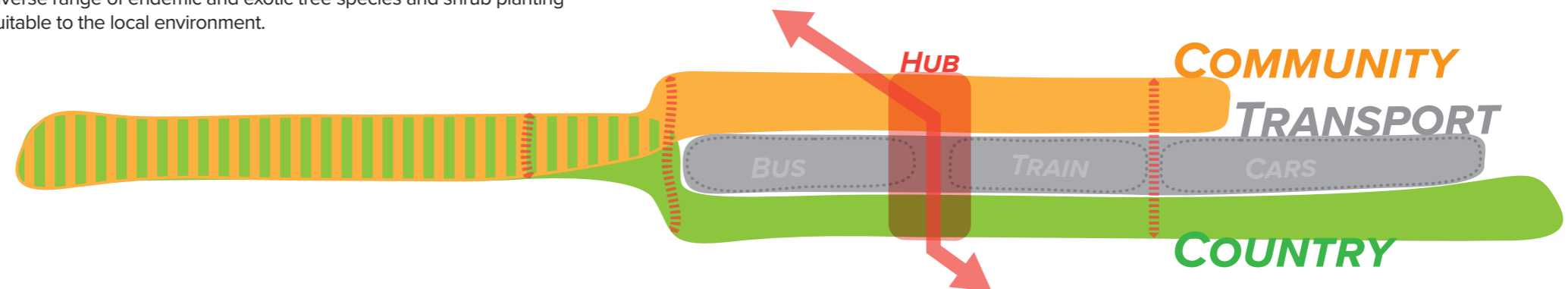
Via an active park edge to the east of the station connecting with the Jull St Mall and City Centre. It features a generous multi-use urban area, seating throughout, turfed areas, junior play space, youth active area, diverse range of endemic and exotic tree species and shrub planting suitable to the local environment.

02 TRANSPORT

A consolidated use of space linking all sources of transport (Bus, Rail, Car, Motorcycle and Bicycle) and Station accessibility.

03 COUNTRY

Opportunity to provide a strong urban forest edge and connecting 'green link' through the precinct.



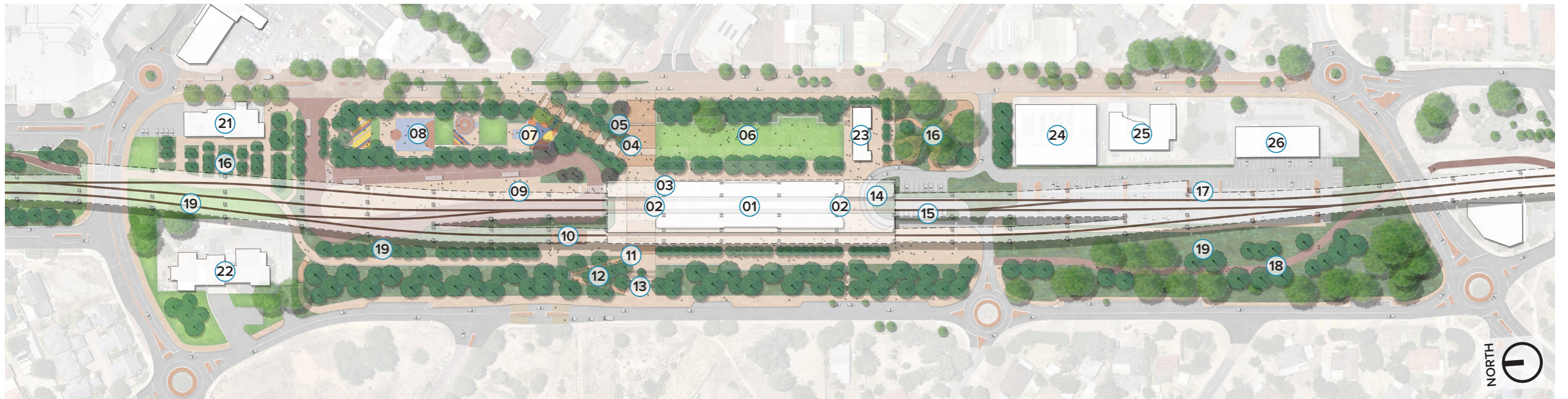


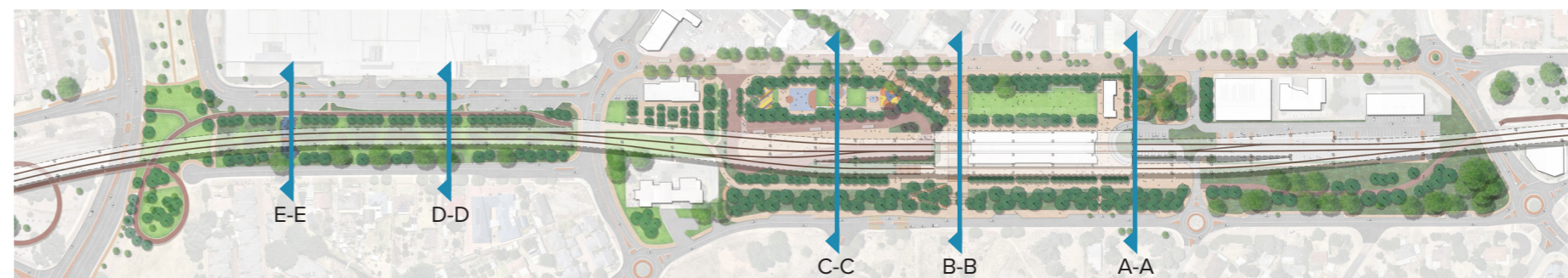
FIGURE 37. LANDSCAPE MASTER PLAN - SOUTH OF FORREST ROAD



FIGURE 38. LANDSCAPE MASTER PLAN - NORTH OF FORREST ROAD

- | | | |
|-----------------------------------|--------------------------|--|
| 01 Train Station | 11 Welcome Place West | 21 RSL |
| 02 Entrance to Station | 12 Ramp Access | 22 Old Fire Station |
| 03 Kiosk | 13 Stair Access | 23 Station Signalling Equipment Room (SER) |
| 04 Welcome Place East | 14 Kiss & Ride | 24 Australian Tertiary Institute |
| 05 Yarning Circle | 15 Staff Parking | 25 TAFE |
| 06 Gardens/ Turf/ Multi-use Areas | 16 Urban Lounge | 26 Polytechnic West |
| 07 Junior Playspace | 17 Public Parking | |
| 08 Youth Active Area | 18 Principle Shared Path | |
| 09 Bus Terminal | 19 WSUD | |
| 10 Bicycle Shelter | 20 Neerigen Brook | |

SECTIONAL STUDY



SECTION LOCALITY PLAN

Sections are also provided on subsequent pages to highlight how the design can respond to levels challenges from east to west, and the scale of spaces under the viaduct where these interact with the welcome place, park and ride and station buildings/infrastructure.



FIGURE 39. SECTION A-A

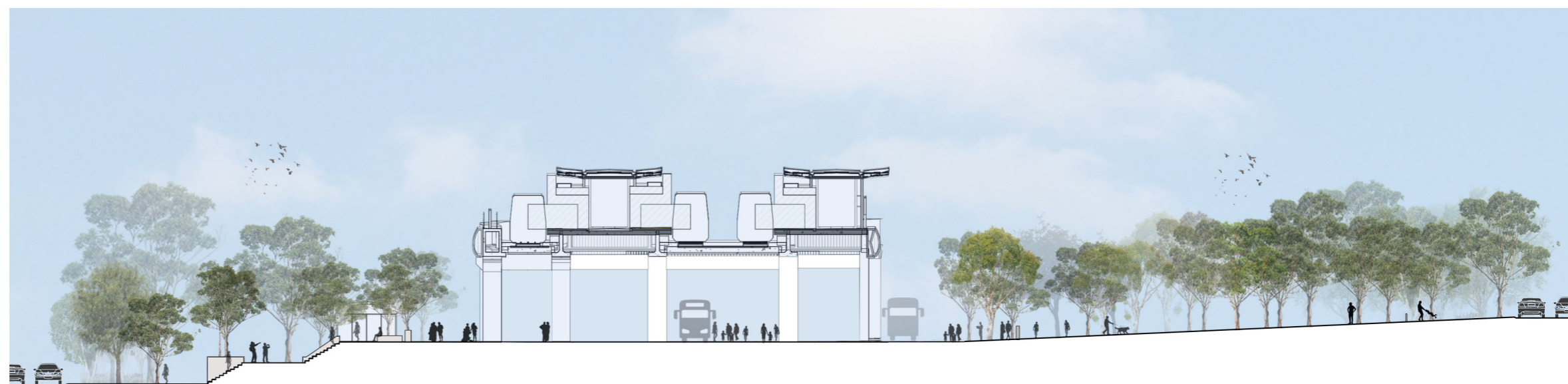


FIGURE 40. SECTION B-B



FIGURE 41. SECTION C-C



FIGURE 42. SECTION D-D



FIGURE 43. SECTION E-E

TREES AND SHADE

The retention of existing mature trees is essential to ensuring continuity of the wider habitat and ecosystem of Armadale whilst reducing the need for irrigated areas.

Trees with Heritage status are to be protected and celebrated as part of the context of site.

The proposed trees will be strategically located to increase shade, canopy coverage and reduce the urban heat island effect from the proposed infrastructure. They will contribute to the overall look and feel of the site.

Tree selection, where appropriate, should be tall and linear with a connecting canopy that provides abundant natural shade. The aim should be to soften views to the overhead railway power lines, while not deterring attention from the station's building, its entry and surrounding public spaces.

Suitable plants may need to be exotic to compliment native selections and the local environment.

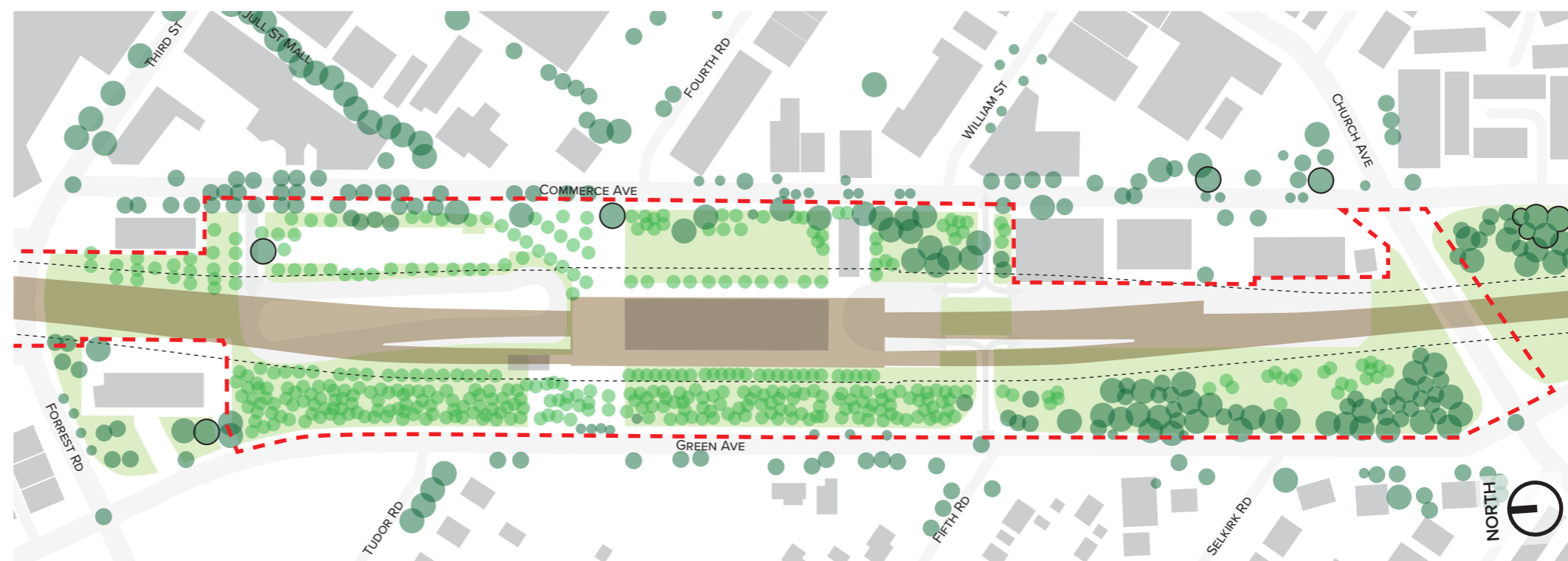


FIGURE 44. TREES AND SHADE PLAN - SOUTH OF FORREST ROAD



FIGURE 45. TREES AND SHADE PLAN - NORTH OF FORREST ROAD

LEGEND

- Trees to be retained
- Heritage Tree Walk trees (to be retained)
- New tree
- Planted landscape contributing to cooling
- Rail viaduct shade (Day One)
- Tree-limitation zone due to rail infrastructure

RETAINING MONUMENTAL TREES



Sugar Gum in the current north-east carpark



Sugar Gums and Marri trees at the bus entrance



Monumental trees between the rail line and fire station

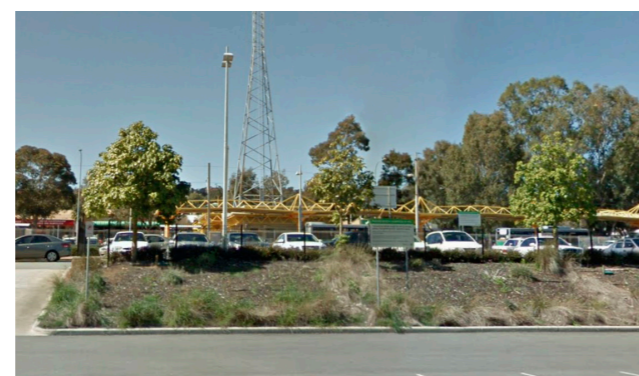


Flooded Gums and Marri between Aragon Court and the rail line

RELOCATING EXISTING TREES



Jacaranda trees in the current train station forecourt



Platanas Acerifolia trees in the current median of the western carpark

OPPORTUNITIES TO FURTHER INCREASE TREE CANOPY AND REDUCE URBAN HEAT



Dense tree canopy providing shade and cooling to plazas



Dense tree planting at car parking areas



Dense tree planting at construction to realise urban cooling (example Southbank Blvd, Melbourne)



Shaded parking allowing drivers to return to a cooler car (example: Place des Quinconces, Bordeaux)

OPPORTUNITIES TO IMPROVE GROWING CONDITIONS IN PAVED AREAS



Permeable paving improve growing conditions, allow for stormwater infiltration and reduce urban heat



Bardi Lane, OneOneFive Hamilton Hill, Cockburn permeable paved parking bays around new trees

LANDSCAPE CHARACTER - HARDSCAPE

The consolidation of hardscape materials and fixture selection ensures continuity across the whole site. It takes into account the site aesthetic, the needs of the end user, and the operational and ongoing maintenance requirements.

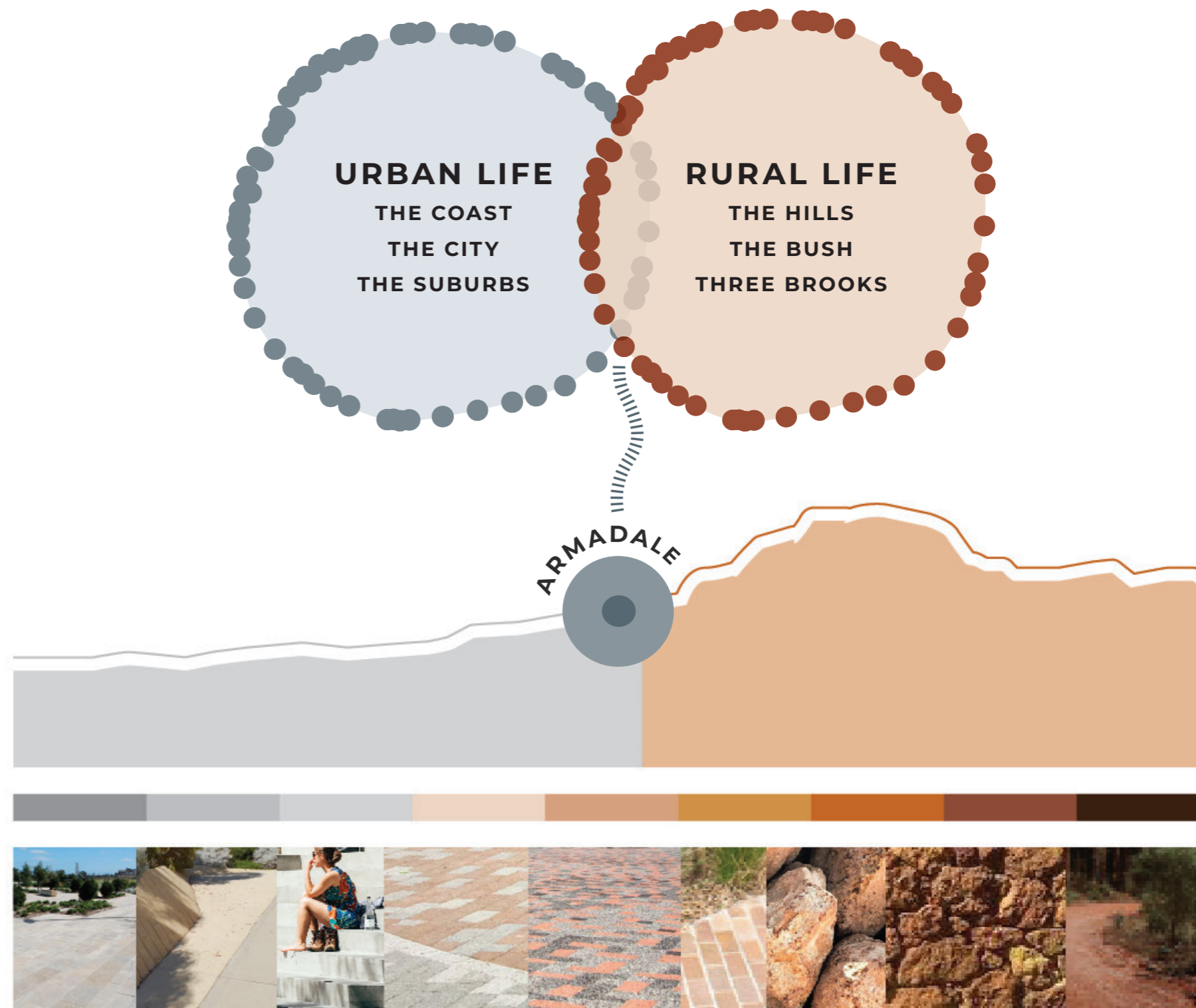
A palette has been selected to be implemented site wide in order to complement the overall identity and feel of the Armadale Rail Station. Aim is to demonstrate a relationship to both the natural landscape and historic and new town centre.

MATERIAL PALETTE

The material palette references the location of the Armadale Station being at the nexus of several edges and intersections:

- The Swan Coastal Plain and the Darling Scarp;
- The intersection of major transport routes - road and rail line; and
- The Coast, City and Urban life and the Hills, Scarp and rural life.

A key theme is the meshing or intertwining of the underlying soils and geology of the Swan Coastal Plain, the Darling Scarp and Hills area. It also builds on the historic links in the area with the colour and textures of the local architecture and flora.



SURFACES

The material palettes reference both the underlying soils and geology of the local area, as well as the colours and textures from the local architecture and flora in the area. The soils and geology are a mosaic of red gravels, yellow and brown clays and sands, and red brown laterites.

This mosaic is represented in a random pattern of unit paving which melds the laying style in to a more contemporary design. This melding of the historic and contemporary reflects the sites current location as the nexus of the rural and suburban zones of Perth.

Surface materials:

- Trafficable pathway option - unit paver with varied colour and tones with an opportunity to use recycled bricks where appropriate
- Trafficable pathway option - exposed aggregate concrete which reflects the broader colour palette

SEATING

Opportunities for seating are located throughout the Armadale Station landscape including along the Welcome Plaza, Western Entry, Youth Plaza and Linear Parkland (to be detailed). Simple and robust seating supports activities and aids circulation.

Seating and decking materials:

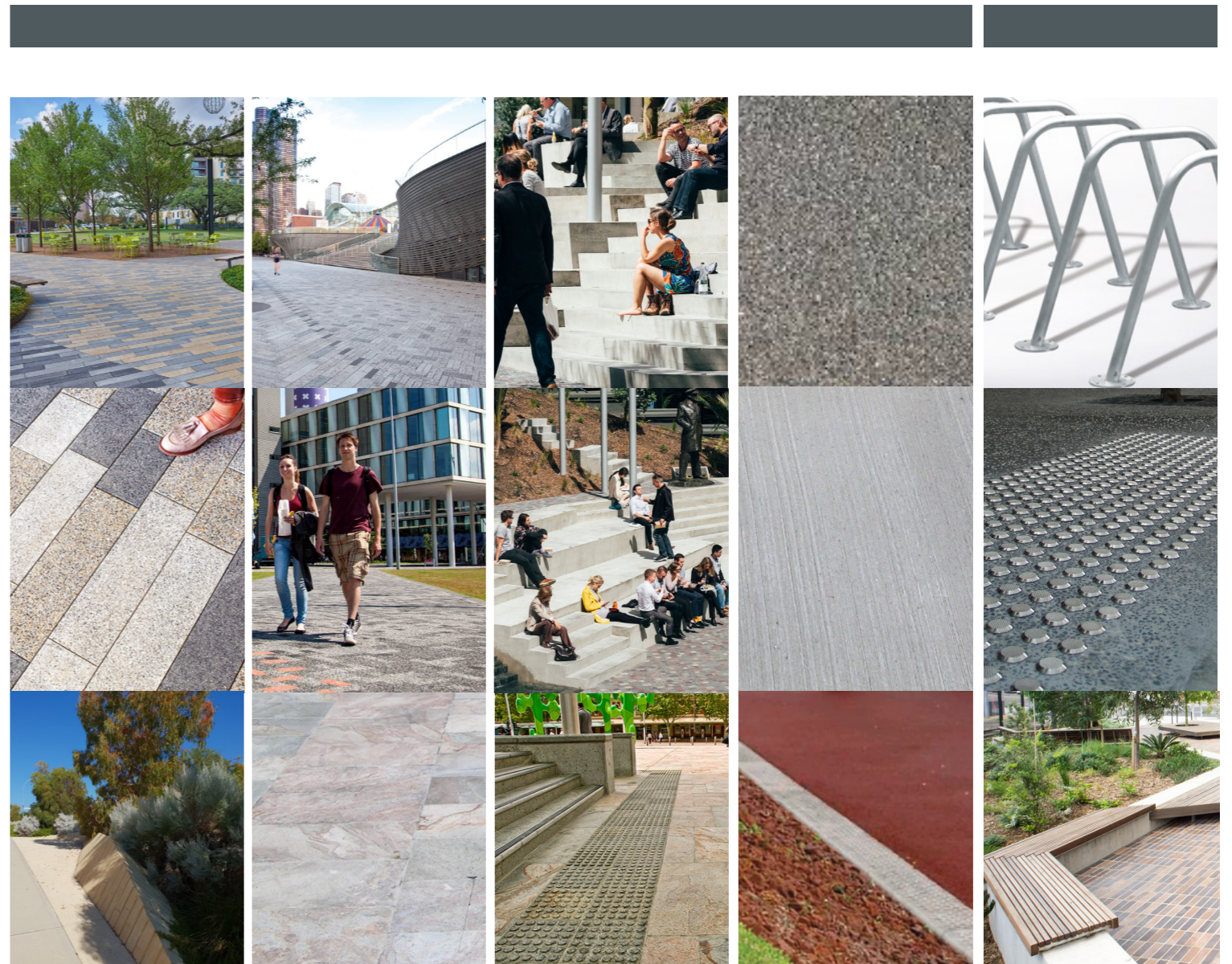
- Decking - seasoned, hardwood timber decking
- Seating walls - concrete with varied tones to match the broader palette and seating with back and arm rests

PLAY SPACES

The youth and play spaces seek to provide an all ages playground with seating and turfed areas. It is to provide an inclusive community space in the centre of town.

PAVING TREATMENTS

DETAILS



LANDSCAPE CHARACTER - SOFTSCAPE

The planting character references the 'nexus' of the Swan Coastal Plain and Darling Scarp and Hills landscape characters coming together at the station. The use of strategically placed deciduous trees reinforce the historic and contemporary character of Armadale.

The use of tree species aligns with the City of Armadale's 'Urban Forest Strategy' to further reinforce the broader landscape narrative and character of Armadale and the surrounds.

WATER SENSITIVE URBAN DESIGN (WSUD)

Water Sensitive Urban Design (WSUD) is key to providing effective ways to minimise impacts of the rail development on waterways within the site. The site will provide treatment of storm water and overland water flow pollutants onsite for treatment via vegetated swales and planting. The design and implementation of WSUD systems will be jointly coordinated with Civil, Hydrology and Landscape. These will be reflected in our design drawings noting size and volume of treatment areas, choice of filtration media and selection of specific plant species for the job.

URBAN FOREST EDGE

The City of Armadale has been foremost in understanding that with a rapidly growing population and urban development there is a reduction in large areas of native vegetation and loss of private open space. The vision of the City of Armadale Urban Forest Strategy aims "to strengthen a diverse landscape character through allocating suitable tree diversity, be proactive with landscape planning while showcasing the City's botanic heritage and to distinguish an expanding 'tree-change' destination from the existing Perth vernacular."

The Place Plan acknowledges the City's aspiration and features along Green Avenue an Urban Forest edge that links existing tree-scapes along the north/south aspect as well as maintaining ecological links through the Armadale city centre.



DJILBA

MAKURA

DJERAN

KAMBARANG

BIRAK

BUNURU



Building on the 'Bush Plaza' typology of Beenyup Station a selection of flowering feature endemic plants is utilised. The arrangement of the planting and flowering times provides a succession of colour over the seasons and reflects the indigenous 'Six Seasons' with specific plants selected to indicate the different seasons.

The selection of plant species should be prefaced with the fact there is no 'perfect' tree. The selection of either endemic (ie. trees that are specific to a particular local area), 'native' (ie. grow naturally in Australia), or exotic (ie. origin outside of Australia) should be balanced with the knowledge that urban sites are radically different to the natural spaces that many endemic and native trees have evolved.

Locating the right plant, in the right location for the right reason are underpinned by the following considerations:

- higher average temperatures from hardstand, carparks and buildings;
- sightlines, views and safety for users;
- mature size of planting;
- less permeable surfaces and compacted soils and root disturbance from excavation and underground services;
- canopy shading and solar requirements;
- maintenance required e.g. tree litter , pruning, root management etc.
- longevity and structural integrity of plant species;
- spaces above and below ground for plant establishment;
- aesthetic and 'sense of place' selections;
- endemism of species where suitable and appropriate; and
- clearance for vehicles, pedestrians and cyclists.

INVESTMENT LEVELS

Not every area in the public realm of the station precinct needs the same level of investment.

Some areas are more important for people than others; comparable to somebody's house, where its residents spend more attention to the living room than the laundry room. Important areas present pride, showcase the place, and are used more intensely by people, both regular users and visitors. Their maintenance levels are higher too. Other areas also need to function well, but can do with less ambition. The investment levels relate to budgets per square metre for capital works and for maintenance.

In general, four investment levels can be formulated for urban areas – premium, high quality, standard and basic. For the station precincts, the 'premium' level might be too ambitious. The other three levels are generally applicable and the locations within the Armadale Station precinct that each should be applied to is as follows:

- LEVEL 2 – HIGH QUALITY: Welcome Place
- LEVEL 3 – STANDARD: Streets, parks and bus transfer station
- LEVEL 4 – BASIC: Car parking

NOTES ON SQUARE METRE RATES

The rates are to be used as benchmark indicators and can be used for budget planning of urban realm spaces. Using the rates in relation to competitive market bids is highly disputable, since the quality of the design and finishes costed in those bids might not be the comparable.

The square metre rates indicated in this section are benchmark rates for the construction of all surface finished – hardscape and softscape, including street furniture. Demolition and site preparation works, utility services, architectural features, preliminaries, professional fees, contingencies and escalations are not included.

Various factors have a direct influence on the square metre rates. The ratio between hardscape and softscape is an obvious one. A city park with lots of turf is cheaper to construct than a city square with the same importance in the city's users. Other important factors are the special features; the complexity of custom-made elements (water features, public art, feature lighting, etc.) has a big impact on the square metre rate.

The indicated rates are based on the price levels of 2020.



LEVEL 2 – HIGH QUALITY

\$400–\$500 / SQM

For instance: • Town Plaza, Albany• Curtin Main Street, Curtin University Bentley Campus• Cecil Avenue, Canning City Centre

Typically, finishes are higher quality unit pavers, in-situ concrete with exposed aggregate or intricate patterning. Seating and retaining walls in concrete finish with some feature details. Selection of high-quality off-the-shelf furniture elements. Select areas with feature lighting, shade structures, lighting and public art. Extensive soil improvement, medium density planting (min 140mm). Generally 200lt to 500lt trees. Permanent irrigation to all.



LEVEL 3 – STANDARD

\$200–\$300 / SQM

For instance: • The Parkway, Ellenbrook• Scarborough Beach Road, Mount Hawthorn• Curtin Guild Court, Curtin University• Seppings Parade Plaza, Lakelands Shopping Centre

Typical finishes are in-situ concrete, black/red asphalt and small size basic concrete unit pavers for drivable spaces – brick paver and unit paver footpaths, limited patterning. Off-the-shelf street furniture, no retaining wall and standard lighting. A basic level of soil improvement to all garden areas. A medium density 140mm planting size or high-density tubestock. Generally 100lt to 200lt trees and limited rolled on turf areas – permanent irrigation to all.



LEVEL 4 – BASIC

\$100–\$150 / SQM

For instance: • Standard suburban street• Basic arterial road• Car parks

Typically treatments are black asphalt for drivable surfaces; grey concrete extruded kerbing, broomed concrete footpaths – no street furniture besides incidental street light. Use of on-site soil, limited soil improvement, tube stock size planting, mulch treatment and turf seasonally mowed only. Trees of 45lt to 100lt. Permanent irrigation to trees only and tubestock to be winter planted.

TABLE 6. INVESTMENT LEVELS FOR PUBLIC REALM

Source: Byford Rail Extension – Concept Design, 'Armadale Station Precinct Preliminary Place Plan', WSP/PLACE Laboratory (2021) (BRE-MNO-WSP-PL-RPT-0003).

Notes:

- The investment levels have a hierarchy according to function and use.
- High Quality areas are focused around the train station building, welcome plaza and the interface between Commerce Avenue and Green Avenue.

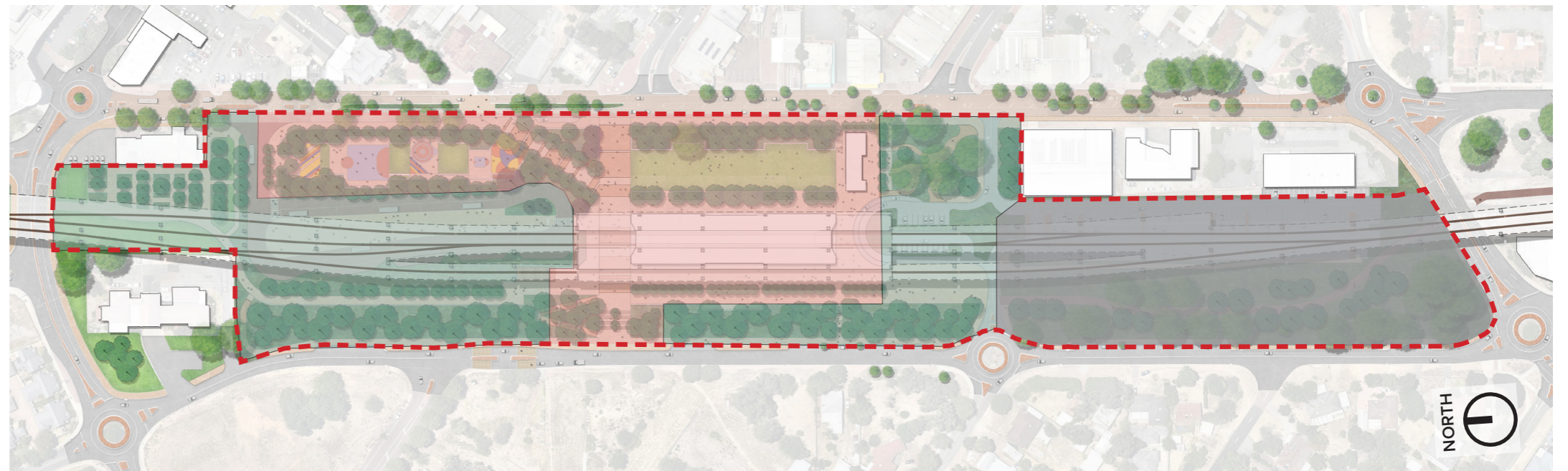


FIGURE 46. INVESTMENT LEVELS PLAN – SOUTH OF FORREST ROAD

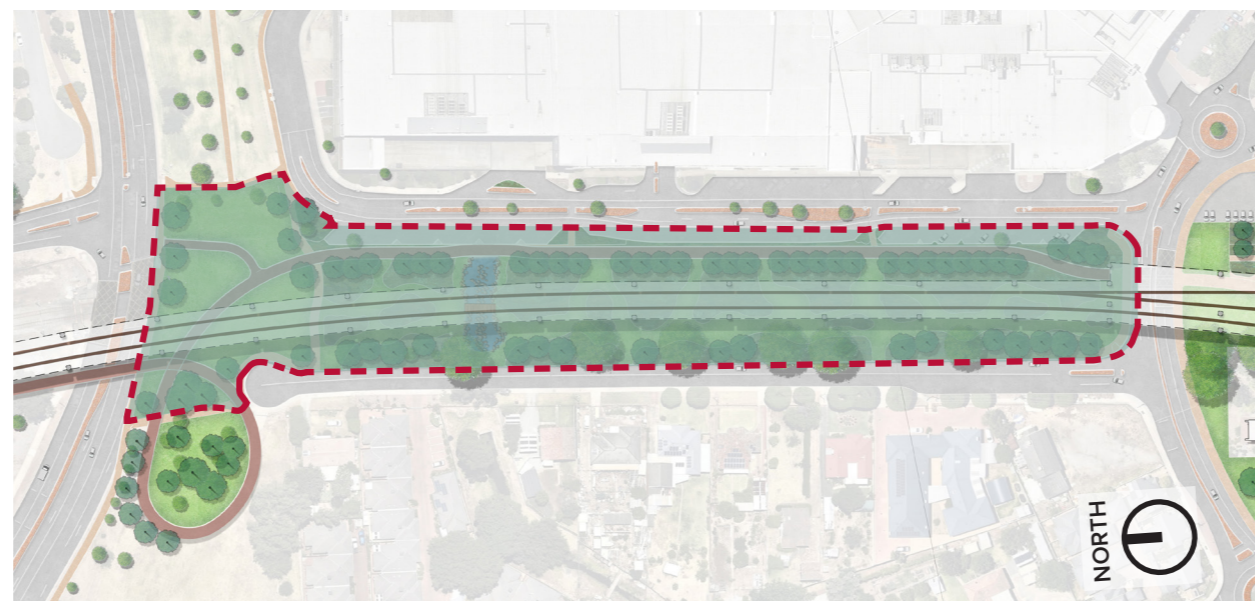


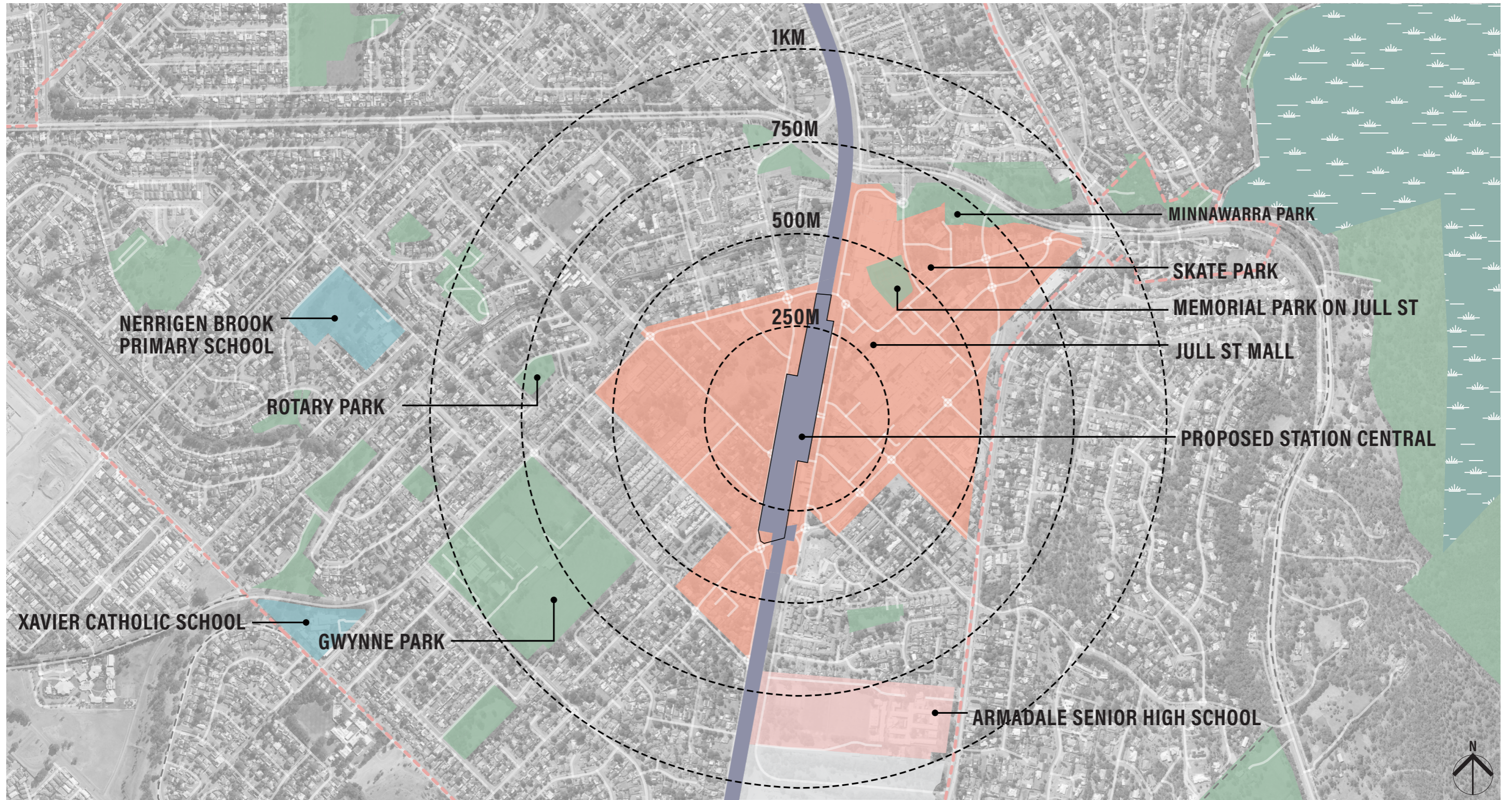
FIGURE 47. INVESTMENT LEVELS PLAN – NORTH OF FORREST ROAD

LEGEND

- Landscape Extent of Works
- Level 2 - High Quality
- Level 3 - Standard
- Level 4 - Basic



LOCALITY PLAN



KEY THEMES



HILLS TOWN

- City With A Town Feel
- Omnipresent Hills & Trees
- Of The People
- Human Scale
- Civic
- Contemporary
- Convenience

Hills Town refers to the city at the foothills of Moorda. Where Fremantle is a 'port town' and Kalamunda a 'hills village', Armadale is the only city centre in the metropolitan area directly connected to the hills. It is a 'city' in function and a 'town' in feel.



CONNECTING

- Grounded
- Open & Inviting
- Bridging Differences
- Growing
- Urban + Rural
- Coastal Plains + Darling Scarp

This is a place of connecting in many different ways - physically linking places, connecting people, advancing from anonymity, relating to past and future, telling stories. The place relates to both 'kening grounds' gathering and to rail holding yards, where products were connected to their next destination in Perth and Fremantle.



REVEAL

- More Than The Eye Can See
- Not Obvious
- Discover
- Surprise

Although it is easy to find your way, Armadale has hidden layers: places to discover, interesting people, diversity of destinations, waves of activities, many things that make the centre attractive to go to, to stay and to revisit. There is always something to explore.

KEY PRINCIPLES



CLEAR & INTUITIVE

I know where I'm going.

A generous and clear groundplane with an enhanced sense of arrival. Strengthen east/west connectivity



SAFE & WELCOMING

I feel safe. I can stay or just pass through at night or day.

Clear connections from beyond the precinct. Clear sightlines and lighting to enhance feelings of safety.



TREES & SHADE

Create a sense of human scale and enclosure.

Provide shade, shelter and thermal comfort.



MULTI-FUNCTIONAL

Flexibility of the public realm to allow for a number of different uses & functions.



SIMPLE & ROBUST

Simple, robust and timeless treatments. Simple spaces provide opportunities



CULTURALLY INCLUSIVE

Spaces that promote social, cultural and knowledge exchange.



INTEGRATED

Connection to services for space activation and with Jull St.



CONTEXT

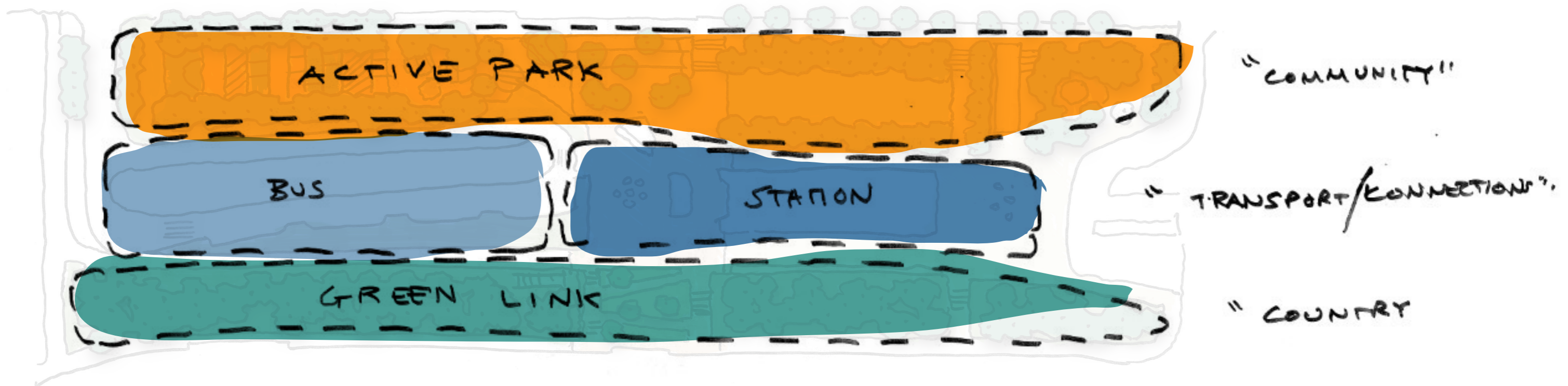
This feels like Armadale.



FUTURE PROOF

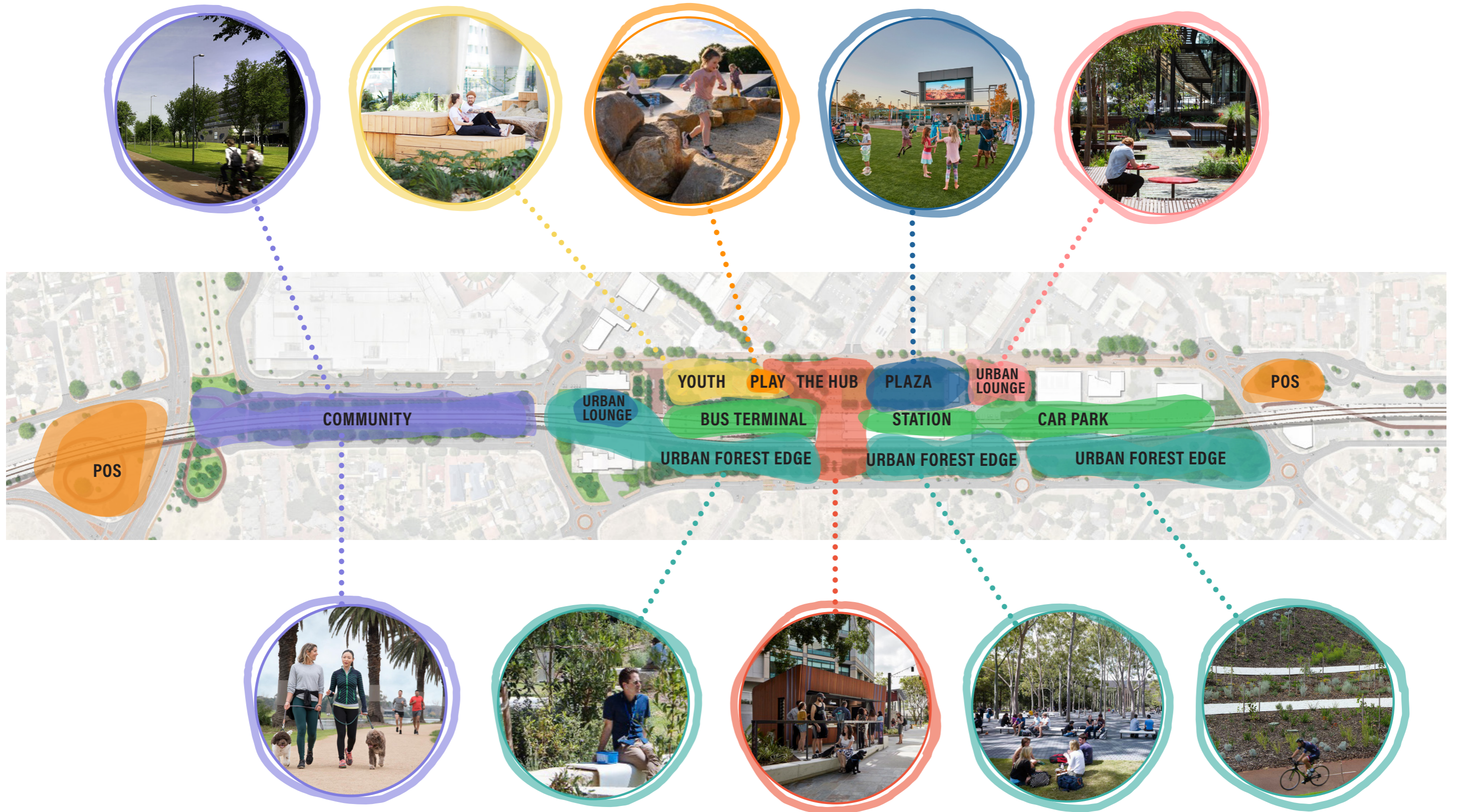
Flexibility of function and use. One space with many experiences.

THREE LINEAR PROGRAMS



COMMUNITY | TRANSPORT | COUNTRY

ARMADALE STATION PRECINCT - ZONES

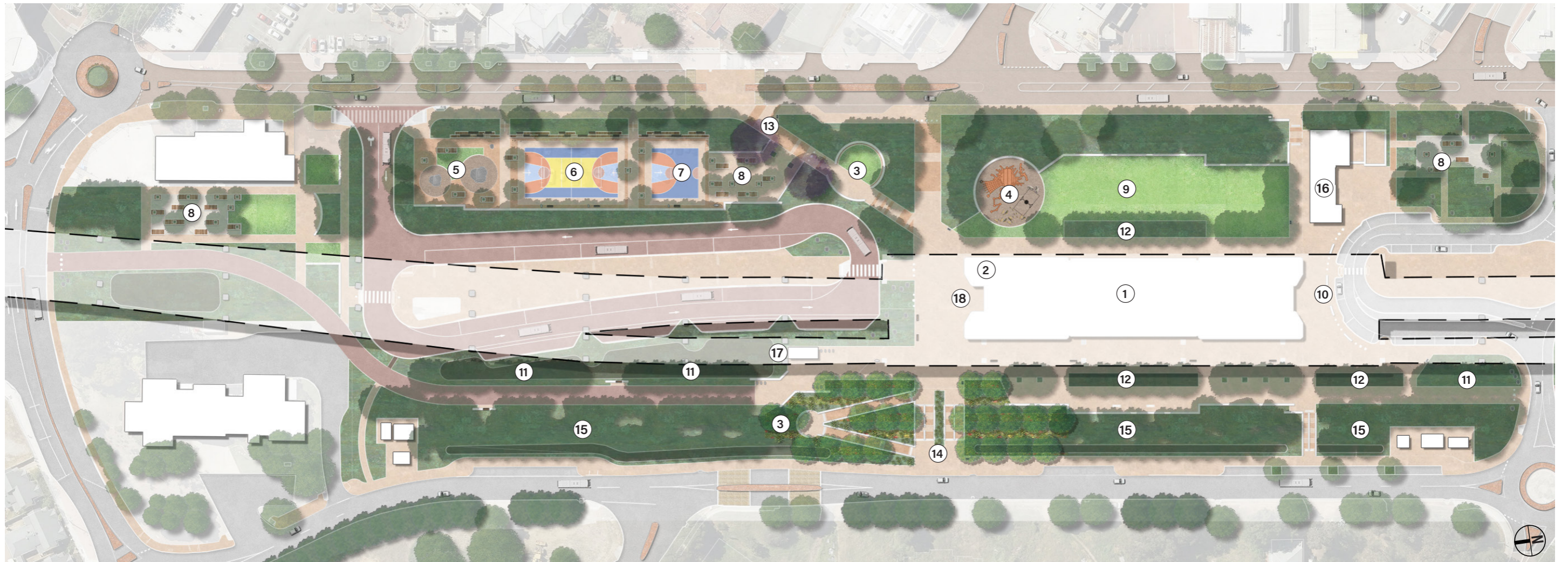


ARMADALE STATION CONCEPT MASTERPLAN



- | | |
|--|-------------------------|
| ① Train Station | ⑱ TAFE |
| ② Kiosk | ⑲ Polytechnic West |
| ③ Yarning Circle | ⑳ Neerigen Brook |
| ④ Junior Playspace | ㉑ Principle Shared Path |
| ⑤ Youth Active Area | ㉒ Bicycle Shelter |
| ⑥ Welcome Place East | ㉓ Dog Off Leash Park |
| ⑦ Urban Lounge | ㉔ Irrigation Tank |
| ⑧ Welcome Place West | |
| ⑨ Turf/ Multi-use Events Area | |
| ⑩ Kiss & Ride | |
| ⑪ WSUD | |
| ⑫ Bus Terminal | |
| ⑬ Public Parking | |
| ⑭ Station Signalling Equipment Room (SER) | |
| ⑮ RSL | |
| ⑯ Old Fire Station | |
| ⑰ Australian Tertiary Institute | |

" A SUCCESSFUL PUBLIC SPACE GENERALLY SHOULD BE ACCESSIBLE, BE COMFORTABLE AND HAVE A WELCOMING AESTHETIC. PEOPLE SHOULD BE ABLE TO ENGAGE IN AN ARRAY OF ACTIVITIES, BE INCLUSIVE AND BE A HIGHLY SOCIABLE ENVIRONMENT. "



- ① Train Station
- ② Kiosk
- ③ Yarning Circle
- ④ Junior Nature Playspace
- ⑤ Bouldering
- ⑥ Multiuse/Full Size Basketball Court
- ⑦ Half Size Basketball Court
- ⑧ Urban Lounge
- ⑨ Turf/ Multi-use Events Area
- ⑩ Kiss & Ride
- ⑪ Bioretention Basin
- ⑫ Rain Garden
- ⑬ Welcome Place East
- ⑭ Welcome Place West
- ⑮ Urban Forest Edge
- ⑯ Station Signalling Equipment Room (SER)
- ⑰ Bicycle Shelter
- ⑱ Station Entry

1.0 LANDSCAPE

The overall landscape approach for the Armadale Station Precinct has been a cumulative response aligning with not only the project requirements of the SWTC but also understanding the dynamics of an emerging City centre, it's unique sense of place, noting community and stakeholder expectations, and providing an outcome that flexible for future needs.

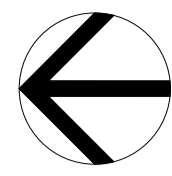
The landscape design has been guided and incorporated the following principles and projects needs;

- Retaining of as many existing trees as possible with priority placed on heritage based trees and enhancing the aspect with increased tree numbers for greater natural shade and canopy over the site.
- Working with the City of Armadale to align tree selection with their Urban Forest Strategy in providing a botanically rich and diverse urban forest. The provision of a large species diversity (native and exotic) is important in limiting disease and pest damage. Current threat is by the Polyphagus Shot-hole Borer that is known to attack a variety of native amenity trees. The aim is to reduce the risk to retain all trees.
- Utilising water wise native planting and focus on reducing irrigation needs via hydrozoning principles where appropriate.
- Incorporating Water Sensitive Urban Design (WSUD) principles to locally treat storm water from the viaduct structure, built form and from overland flow. Capture points are a series of bio-retention basins, swales and rain gardens.
- Providing a range of spaces that can accommodate a variety of users and number of attendees for both formal and informal gatherings.
- Facilitatng felxible community spaces to promote and program events and activities such as weekend farmers markets, arts and crafts, food truck events, etc.
- Strengthening connection through the site north/south and across the corridor east/west under the viaduct now unhindered by 'at grade' fencing allowing stronger utilisation and activation opportunities and connection with the City centre.
- Providing passive surveillance and safe journeying through the site implementing CPTED principles with clear sightlines, good lighting and intuitive wayfinding.
- Providing clear, direct and safe movement to train station entry, bus terminal and car parking.
- Encouraging activity within the precinct with walking, play and resting points throughout with formal and informal seating nodes with universal access.
- Mitigating conflict points with cyclists (and the likes) and pedestrians by providing landscape treatments that incorporate separation and to signal users to slow down, be wary and alight where appropriate.
- Incorporating Noongar cultural context, themes and narratives specific to the site location and Armadale heritage. These being derived from the local Noongar Elder Reference Group, Metronet Noongar Reference Group, Metronet Noongar Cultural Context Document and the Mertonet "Gnarla Biddi - Our Pathways" Strategy.
- Enhancing natural systems with an improved ecological corridor north/south through the site that also encorages connection with nature, country and embellishes sense of place.
- Considering robust and quality materials that are sourced responsibly and enhance location and sense of place.

2.0 PUBLIC REALM

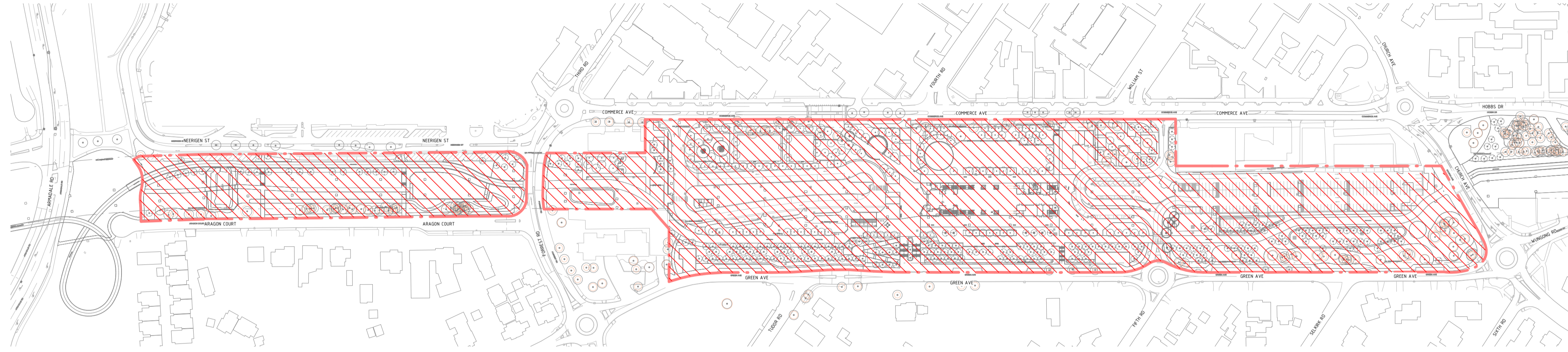
The proposed Armadale Station Precinct aims to deliver a significant public realm spanning over approximately 7.9 hectares between Armadale Road and Church Avenue. A key function of the Public Realm is to act as the hub for users from train station and bus terminal to the City and the immediate and broader community. In its bounds the Public Realm will also provide a variety of activity nodes and amenity that include;

- Boardwalk crossing over the existing Neerigen Brook between Neerigen Street and Aragon Court. This utilises the existing rail bridge footing structures. Educational signage to inform the significance of why this section of the Brook is still in place performing a critical function in managing flood waters that frequent the area.
- Neerigen Brook Dog Off-leash Park with dual safety gate entry, dog agility items, seating and drink fountains with dog water bowls.
- Urban lounges that provide comfortable, welcoming spaces to sit, read, relax or to simply enjoy lunch and meet a friend. These relaxed seating spaces are set amongst trees and planting and occur in three places across the site - behind the RSL Club, in the Youth Area and adjacent the Kiss 'n' Ride south of the Train Station.
- Generous turfed areas throughout the Public Realm to encourage picnics, activation and to reduce use of hard paved surfaces. The larger turfed area adjacent the Train Station east is proposed for larger more formal events and community based activities.
- Youth Area east of the Bus Terminal provides a variety of skill, strength and sports based activity as well as chill out zones to simply rest, relax and hangout. The space provides for;
 - Bouldering - varying skill and strength level
 - Full size basketball court with multi-use line graphics
 - Half size basketball court
 - Terraced seating east of the courts to give elevated 'grandstand like' viewpoints.
 - Chainlink rebound fencing west of the courts to protect balls and people from straying across into the path of buses at the adjacent bus terminal.
 - Urban lounge seating to provide a 'chill zone' for youth under the shade of trees.
- Bicycle racks
- Drink fountain
- Bench and seating walls that includes sections with back and arm rests.
- Retention and relocation of the two significant Jacaranda trees that currently reside at the old Station entry.
- Strong connection with City centre via the Jull St corridor to Station entry.
- Yarning Circle to Welcome Place East with seating wall that includes sections with back and arm rests.
- Strong connection east/west through the site connecting the Station entry.
- Junior nature based playground to feature inclusive play elements (subject to approval with the City of Armadale) that include;
 - Basket swing
 - Tower with slide
 - Timber steppers and balance logs
 - Local granite boulders
 - Stone 'moss rock' steppers
 - Sand play based elements
 - Net climber
- Seating nodes are located throughout the Station Precinct and generally spaced at 25-40m maximum to provide greater opportunity for resting spots as determined by the needs of the community for greater frequency.
- Bicycle racks, locked bicycle storage and drink fountains.
- An Urban Forest edge to enhance the ecological corridor movement north/south through the site but implement the retention of significant trees to the site in general. A resonating deliverable within the project has been the development and implementation of the tree retention strategy.



BYFORD RAIL EXTENSION

ARMADALE STATION PRECINCT LANDSCAPE WORKS



| LA230 - DRAWING LIST | | | | | |
|--------------------------|-----------------|---------------------------|----------------------|--|----------|
| METCONNX DRAWING No | PTA DRAWING No | DRAWING TITLE LINE 1 | DRAWING TITLE LINE 2 | DRAWING TITLE LINE 3 | REVISION |
| R30-UDL-DWG-LA-230-00001 | 11-A-107-LA0001 | ARMADALE STATION PRECINCT | LANDSCAPE | COVER SHEET | C |
| R30-UDL-DWG-LA-230-00002 | 11-A-107-LA0002 | ARMADALE STATION PRECINCT | LANDSCAPE | LEGEND & NOTES | C |
| R30-UDL-DWG-LA-230-00010 | 11-A-107-LA0003 | ARMADALE STATION PRECINCT | LANDSCAPE | SCHEDULES | C |
| R30-UDL-DWG-LA-230-00011 | 11-A-107-LA0004 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING SCHEDULES | A |
| R30-UDL-DWG-LA-230-00021 | 11-A-107-LA0006 | ARMADALE STATION PRECINCT | LANDSCAPE | SHEET LAYOUT PLAN | C |
| R30-UDL-DWG-LA-230-00100 | 11-A-107-LA0007 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 01 | C |
| R30-UDL-DWG-LA-230-00101 | 11-A-107-LA0008 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 02 | C |
| R30-UDL-DWG-LA-230-00102 | 11-A-107-LA0009 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 03 | C |
| R30-UDL-DWG-LA-230-00103 | 11-A-107-LA0010 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 04 | C |
| R30-UDL-DWG-LA-230-00104 | 11-A-107-LA0011 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 05 | C |
| R30-UDL-DWG-LA-230-00105 | 11-A-107-LA0012 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 06 | C |
| R30-UDL-DWG-LA-230-00106 | 11-A-107-LA0013 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 07 | C |
| R30-UDL-DWG-LA-230-00107 | 11-A-107-LA0014 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 08 | A |
| R30-UDL-DWG-LA-230-00108 | 11-A-107-LA0015 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 09 | A |
| R30-UDL-DWG-LA-230-00109 | 11-A-107-LA0016 | ARMADALE STATION PRECINCT | LANDSCAPE | TREE RETENTION PLAN 10 | A |
| R30-UDL-DWG-LA-230-00200 | 11-A-107-LA0027 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 01 | C |
| R30-UDL-DWG-LA-230-00201 | 11-A-107-LA0028 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 02 | C |
| R30-UDL-DWG-LA-230-00202 | 11-A-107-LA0029 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 03 | C |
| R30-UDL-DWG-LA-230-00203 | 11-A-107-LA0030 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 04 | C |
| R30-UDL-DWG-LA-230-00204 | 11-A-107-LA0031 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 05 | C |
| R30-UDL-DWG-LA-230-00205 | 11-A-107-LA0032 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 06 | C |
| R30-UDL-DWG-LA-230-00206 | 11-A-107-LA0033 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 07 | C |
| R30-UDL-DWG-LA-230-00207 | 11-A-107-LA0034 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 08 | A |
| R30-UDL-DWG-LA-230-00208 | 11-A-107-LA0035 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 09 | A |
| R30-UDL-DWG-LA-230-00209 | 11-A-107-LA0036 | ARMADALE STATION PRECINCT | LANDSCAPE | GRADING PLAN 10 | A |
| R30-UDL-DWG-LA-230-00300 | 11-A-107-LA0047 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 01 | C |
| R30-UDL-DWG-LA-230-00301 | 11-A-107-LA0048 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 02 | C |
| R30-UDL-DWG-LA-230-00302 | 11-A-107-LA0049 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 03 | C |
| R30-UDL-DWG-LA-230-00303 | 11-A-107-LA0050 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 04 | C |
| R30-UDL-DWG-LA-230-00304 | 11-A-107-LA0051 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 05 | C |
| R30-UDL-DWG-LA-230-00305 | 11-A-107-LA0052 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 06 | C |
| R30-UDL-DWG-LA-230-00306 | 11-A-107-LA0053 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 07 | C |
| R30-UDL-DWG-LA-230-00307 | 11-A-107-LA0054 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 08 | A |
| R30-UDL-DWG-LA-230-00308 | 11-A-107-LA0055 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 09 | A |
| R30-UDL-DWG-LA-230-00309 | 11-A-107-LA0056 | ARMADALE STATION PRECINCT | LANDSCAPE | GENERAL ARRANGEMENT & FINISHES PLAN 10 | A |
| R30-UDL-DWG-LA-230-00400 | 11-A-107-LA0067 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 01 | C |
| R30-UDL-DWG-LA-230-00401 | 11-A-107-LA0068 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 02 | C |
| R30-UDL-DWG-LA-230-00402 | 11-A-107-LA0069 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 03 | C |
| R30-UDL-DWG-LA-230-00403 | 11-A-107-LA0070 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 04 | C |
| R30-UDL-DWG-LA-230-00404 | 11-A-107-LA0071 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 05 | C |
| R30-UDL-DWG-LA-230-00405 | 11-A-107-LA0072 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 06 | C |

| LA230 - DRAWING LIST | | | | | |
|--------------------------|------------------|---------------------------|----------------------|----------------------|----------|
| METCONNX DRAWING No | PTA DRAWING No | DRAWING TITLE LINE 1 | DRAWING TITLE LINE 2 | DRAWING TITLE LINE 3 | REVISION |
| R30-UDL-DWG-LA-230-00406 | 11-A-107-LA0073 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 07 | C |
| R30-UDL-DWG-LA-230-00407 | 11-A-107-LA0074 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 08 | A |
| R30-UDL-DWG-LA-230-00408 | 11-A-107-LA0075 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 09 | A |
| R30-UDL-DWG-LA-230-00409 | 11-A-107-LA0076 | ARMADALE STATION PRECINCT | LANDSCAPE | PLANTING PLAN 10 | A |
| R30-UDL-DWG-LA-230-00500 | 11-A-107-LA0087 | ARMADALE STATION PRECINCT | LANDSCAPE | PTA ASSET PLAN 01 | A |
| R30-UDL-DWG-LA-230-00501 | 11-A-107-LA0088 | ARMADALE STATION PRECINCT | LANDSCAPE | PTA ASSET PLAN 02 | A |
| R30-UDL-DWG-LA-230-00502 | 11-A-107-LA0089 | ARMADALE STATION PRECINCT | LANDSCAPE | PTA ASSET PLAN 03 | A |
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| R30-UDL-DWG-LA-230-00509 | 11-A-107-LA0096 | ARMADALE STATION PRECINCT | LANDSCAPE | PTA ASSET PLAN 10 | A |
| R30-UDL-DWG-LA-230-01100 | 11-A-107-LA0128 | ARMADALE STATION PRECINCT | LANDSCAPE | SECTIONS 01 | C |
| R30-UDL-DWG-LA-230-01101 | 11-A-107-LA0129 | ARMADALE STATION PRECINCT | LANDSCAPE | SECTIONS 02 | C |
| R30-UDL-DWG-LA-230-01102 | 11-A-107-LA0130 | ARMADALE STATION PRECINCT | LANDSCAPE | SECTIONS 03 | B |
| R30-UDL-DWG-LA-230-02133 | 11-A-107-LA10011 | ARMADALE STATION PRECINCT | LANDSCAPE | HARDSCAPE DETAILS 01 | B |
| R30-UDL-DWG-LA-230-02134 | 11-A-107-LA10012 | ARMADALE STATION PRECINCT | LANDSCAPE | HARDSCAPE DETAILS 02 | B |
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| R30-UDL-DWG-LA-230-02136 | 11-A-107-LA10014 | ARMADALE STATION PRECINCT | LANDSCAPE | HARDSCAPE DETAILS 04 | A |
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| R30-UDL-DWG-LA-230-02144 | 11-A-107-LA10022 | ARMADALE STATION PRECINCT | LANDSCAPE | HARDSCAPE DETAILS 12 | A |
| R30-UDL-DWG-LA-230-02153 | 11-A-107-LA10031 | ARMADALE STATION PRECINCT | LANDSCAPE | FURNITURE DETAILS 01 | B |
| R30-UDL-DWG-LA-230-02154 | 11-A-107-LA10032 | ARMADALE STATION PRECINCT | LANDSCAPE | FURNITURE DETAILS 02 | B |
| R30-UDL-DWG-LA-230-02155 | 11-A-107-LA10033 | ARMADALE STATION PRECINCT | LANDSCAPE | FURNITURE DETAILS 03 | A |
| R30-UDL-DWG-LA-230-02156 | 11-A-107-LA10034 | ARMADALE STATION PRECINCT | LANDSCAPE | FURNITURE DETAILS 04 | A |
| R30-UDL-DWG-LA-230-02157 | 11-A-107-LA10035 | ARMADALE STATION PRECINCT | LANDSCAPE | FURNITURE DETAILS 05 | A |
| R30-UDL-DWG-LA-230-02158 | 11-A-107-LA10036 | ARMADALE STATION PRECINCT | LANDSCAPE | FURNITURE DETAILS 06 | A |
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| R30-UDL-DWG-LA-230-02163 | 11-A-107-LA10041 | ARMADALE STATION PRECINCT | LANDSCAPE | SOFTSCAPE DETAILS 01 | B |
| R30-UDL-DWG-LA-230-02164 | 11-A-107-LA10042 | ARMADALE STATION PRECINCT | LANDSCAPE | SOFTSCAPE DETAILS 02 | B |
| R30-UDL-DWG-LA-230-02165 | 11-A-107-LA10043 | ARMADALE STATION PRECINCT | LANDSCAPE | SOFTSCAPE DETAILS 03 | B |

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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AT ORIGINAL PLOT SIZE

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Contractor No: R30-UDL-DWG-LA-230-00001 Rev: C

| REFERENCES | SCALE | DESIGNED |
|------------|----------|------------------|
| | 1 : 2000 | D.Firns |
| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

Government of Western Australia
Public Transport Authority



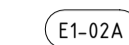
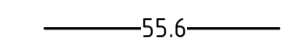

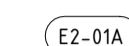

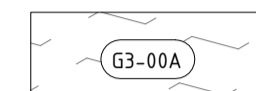
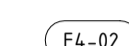
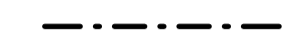

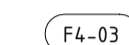


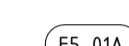


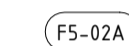

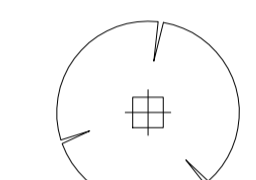
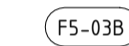
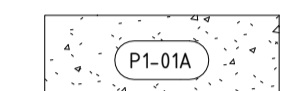
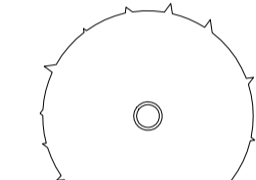
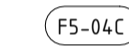
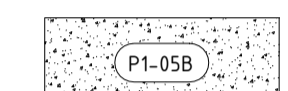
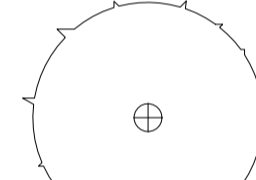
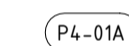
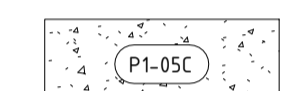
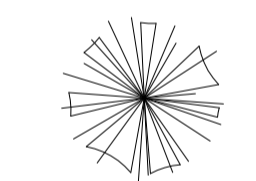
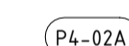

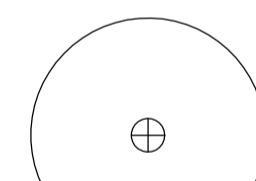
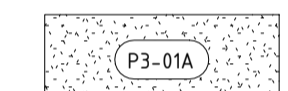

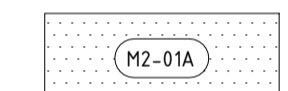

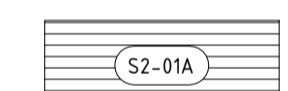
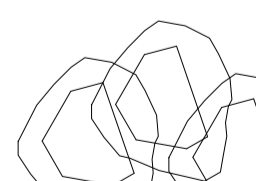

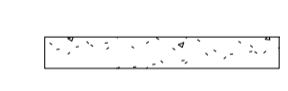
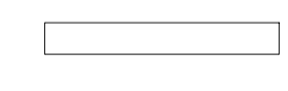

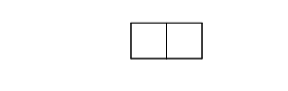
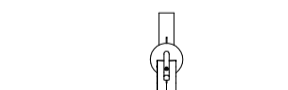
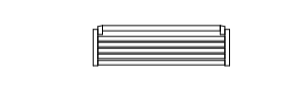
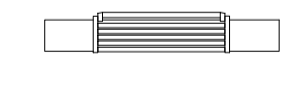
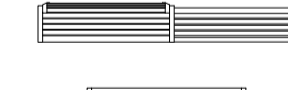




BYFORD RAIL EXTENSION

ARMADALE STATION PRECINCT
LANDSCAPE
COVER SHEET

PTA Drawing No: 11-A-107-LA0001

Rev: C

LEGEND

| | | | | | |
|---|--|--|--|---|--|
|  | EXTENT OF WORKS BOUNDARY |  | G1-00A HIGH QUALITY GARDEN BED REFER DETAILS AND PLANTING SCHEDULE. |  | E1-02A CONCRETE MOW KERB |
|  | EXISTING CONTOURS |  | G2-00A STANDARD GARDEN BED REFER DETAILS AND PLANTING SCHEDULE. |  | E2-01A STEEL EDGE |
|  | RAIL RESERVE BOUNDARY |  | G3-00A BASIC GARDEN BED REFER DETAILS AND PLANTING SCHEDULE. |  | F4-02 PRECAST CONCRETE SEATING ELEMENTS WITH RECYCLED TIMBER TOP |
|  | EXTENT OF OVERHEAD VIADUCT |  | G4-00A BIORETENTION BASIN REFER DETAILS AND PLANTING SCHEDULE. |  | F4-03 PRECAST CONCRETE SEATING ELEMENTS WITH RECYCLED TIMBER TOP |
|  | PROPOSED SPOT ELEVATION |  | G8-00A ORGANIC MULCH ONLY REFER DETAILS AND PLANTING SCHEDULE. |  | F5-01A STAINLESS STEEL HANDRAIL |
|  | TOP OF WALL SPOT ELEVATION |  | TURF REFER DETAILS AND MATERIAL SCHEDULE. |  | F5-02A STAINLESS STEEL HANDRAIL WITH BALLUSTER INFILL |
|  | BOTTOM OF WALL SPOT ELEVATION |  | 45L TREE REFER DETAILS AND PLANTING SCHEDULE. |  | F5-03B 800MM LOW FENCE |
|  | P1-01A INSITU CONCRETE EXP AGGREGATE PAVING TYPE 01 |  | 500L TREE REFER DETAILS AND PLANTING SCHEDULE. |  | F5-04C CHAIN LINK REBOUND FENCE |
|  | P1-05B STANDARD GREY BROOM FINISH INSITU CONCRETE PAVING |  | 1500L TREE REFER DETAILS AND PLANTING SCHEDULE. |  | P4-01A HAZARD TACTILE |
|  | P1-05C STANDARD GREY BROOM FINISH INSITU CONCRETE PAVING WITH SPORT SURFACE FINISH |  | T7-01 GRASS TREE TRANSPLANT |  | P4-02A DIRECTIONAL TACTILE |
|  | P2-01A CONCRETE UNIT PAVER TYPE 01 |  | EXISTING TREE TO BE RETAINED AND PROTECTED. | | |
|  | P3-01A CEMENT STABILISED SUMMERSTONE FINES |  | EXISTING TREE TO BE TRANSPLANTED SUBJECT TO ARBORIST ADVICE & METHODOLOGY | | |
|  | M2-01A RUBBER SOFTFALL |  | EXISTING TREE TO BE REMOVED. | | |
|  | S2-01A TIMBER DECKING & RAMPS |  | M1-01A BOULDERS | | |
|  | S2-02A BOARDWALK | | | | |
|  | W2-00A INSITU CONCRETE WALL | | | | |
|  | W3-00A PRECAST CONCRETE SEATING WALL | | | | |
|  | F1-01A BIKE RACKS | | | | |
|  | F2-01A BINS | | | | |
|  | F3-01A DRINK FOUNTAIN | | | | |
|  | F4-01A BENCH SEAT W/ BACK & ARMREST (STANDALONE) | | | | |
|  | F4-01B SEATING WALL TOPPER (BACKREST & ARMREST) | | | | |
|  | F4-01C BENCH SEAT SYSTEM (WITH FLAT BENCH) | | | | |
|  | F4-01D FLAT BENCH SEAT | | | | |
|  | F6-01A TREE GRATE | | | | |
|  | F7-01A FIXED BOLLARD | | | | |
|  | F7-02A REMOVABLE BOLLARD | | | | |

| | | | | | | |
|-----|----------|-----------------------------|-----|-----|------|------|
| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | | | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | | | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | | | M.H. | A.E. |

ORIG SIZE: A1
AT ORIGINAL PLOT SIZE


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Contractor No: R30-UDL-DWG-LA-230-00002 | Rev: C

| | | |
|------------|---------------------|---------------------|
| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM | DRAWN Y.Demissie |
| | HORIZONTAL: PCG2020 | CHECKED M.Harris |
| | VERTICAL: AHD71 | APPROVED A.Eyres |
| | | DATE 02/06/23 |

DETAILED DESIGN


BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
LEGEND & NOTES
 PTA Drawing No: 11-A-107-LA0002 | Rev: C

| Trees | | | |
|-------------|-----------------------------|------------|----------|
| Type Mark | Description | Size | Quantity |
| T1-07 | Celtis australis | 1500L | 5 |
| T1-16 | Citharexylum spinosum | 1500L | 2 |
| T1-40 | Jacaranda mimosifolia | 1500L | 9 |
| T1-48 | Planatu acerifolia | 1500L | 4 |
| T1-51 | Pistachia chinensis | 1500L | 3 |
| T1-56 | Quercus palustris | 1500L | 2 |
| T1-57 | Quercus robur | 1500L | 4 |
| T1-58 | Quercus robur 'Fastigiata' | 1500L | 14 |
| T1-61 | Tipuana tipu | 1500L | 6 |
| T2-04 | Eucalyptus sideroxylon | 500L | 5 |
| T2-05 | Angophora costata | 500L | 14 |
| T2-07 | Celtis australis | 500L | 4 |
| T2-13 | Eucalyptus cladocalyx | 500L | 1 |
| T2-15 | Cinnamomum camphora | 500L | 4 |
| T2-16 | Citharexylum spinosum | 500L | 5 |
| T2-18 | Corymbia eximia | 500L | 8 |
| T2-24 | Eucalyptus botryoides | 500L | 8 |
| T2-36 | Eucalyptus nicholli | 500L | 9 |
| T2-37 | Eucalyptus wandoo | 500L | 7 |
| T2-40 | Jacaranda mimosifolia | 500L | 3 |
| T2-42 | Lophostemon confertus | 500L | 4 |
| T2-44 | Melaleuca leucadendra | 500L | 8 |
| T2-46 | Melaleuca quinquinervia | 500L | 18 |
| T2-52 | Pyrus calleryana 'Bradford' | 500L | 5 |
| T2-57 | Quercus robur | 500L | 6 |
| T2-62 | Ulmus parvifolia | 500L | 7 |
| T5-01 | Allocasuarina fraserii | 45L | 19 |
| T5-04 | Eucalyptus sideroxylon | 45L | 36 |
| T5-05 | Angophora costata | 45L | 10 |
| T5-09 | Corymbia calophylla | 45L | 28 |
| T5-10 | Eucalyptus accedens | 45L | 16 |
| T5-14 | Eucalyptus erythrocorys | 45L | 6 |
| T5-15 | Cinnamomum camphora | 45L | 1 |
| T5-16 | Citharexylum spinosum | 45L | 1 |
| T5-17 | Eucalyptus gomphocephala | 45L | 6 |
| T5-18 | Corymbia eximia | 45L | 5 |
| T5-19 | Corymbia maculata | 45L | 5 |
| T5-21 | Erythrina skyesii | 45L | 1 |
| T5-22 | Eucalyptus leucoxyton | 45L | 8 |
| T5-23 | Eucalyptus astringens | 45L | 18 |
| T5-24 | Eucalyptus botryoides | 45L | 5 |
| T5-25 | Eucalyptus marginata | 45L | 12 |
| T5-27 | Eucalyptus dundasii | 45L | 3 |
| T5-29 | Eucalyptus rudis | 45L | 29 |
| T5-30 | Eucalyptus salubris | 45L | 5 |
| T5-31 | Eucalyptus laliae | 45L | 3 |
| T5-32 | Eucalyptus megacarpa | 45L | 4 |
| T5-33 | Eucalyptus megacornuta | 45L | 6 |
| T5-36 | Eucalyptus nicholli | 45L | 3 |
| T5-37 | Eucalyptus wandoo | 45L | 16 |
| T5-38 | Eucalyptus occidentalis | 45L | 3 |
| T5-39 | Eucalyptus spathulata | 45L | 4 |
| T5-44 | Melaleuca leucadendra | 45L | 1 |
| T5-46 | Melaleuca quinquinervia | 45L | 2 |
| T5-47 | Melaleuca rhapsiophylla | 45L | 3 |
| T5-50 | Melaleuca viridiflora | 45L | 5 |
| T5-52 | Pyrus calleryana 'Bradford' | 45L | 7 |
| T5-54 | eucalyptus loxophelba | 45L | 5 |
| T5-55 | Eucalyptus salmonophloia | 45L | 8 |
| T5-57 | Quercus robur | 45L | 3 |
| T5-58 | Quercus robur 'Fastigiata' | 45L | 2 |
| T5-61 | Tipuana tipu | 45L | 5 |
| T5-62 | Ulmus parvifolia | 45L | 6 |
| T7-01 | Xanthorrhoea preissii | TRANSPLANT | 231 |
| Grand total | | | 696 |

| Furniture & Fixings | | |
|---------------------|-----------------------------------|-------|
| Code | Description | Count |
| F1-01A | Surface Mounted Bike Rack | 14 |
| F2-01A | Dual Bin Enclosure | 16 |
| F3-01A | Arqua Drink Fountain | 2 |
| F4-01A | <varies> | 12 |
| F4-01B | Aria Bench 2 seat Topper | 17 |
| F4-01C | <varies> | 3 |
| F4-01D | Aria 3.5 Bench Seat (no backrest) | 2 |
| F6-01A | MetCONNX Tree Grate | 8 |
| F7-01A | Fixed Bollard Core Drilled | 47 |
| F7-02A | Removable Bollard | 15 |

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

ORIG SIZE: A1

AT ORIGINAL PLOT SIZE

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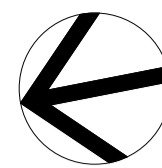


Contractor No:R30-UDL-DWG-LA-230-00010 Rev: C

| REFERENCES | SCALE | DESIGNED |
|------------|---------------------|------------------|
| | AS SHOWN | D.Firms |
| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | DATUM | APPROVED A.Eyres |
| | HORIZONTAL: PCG2020 | DATE 02/06/23 |
| | VERTICAL: AHD71 | |

DETAILED DESIGN

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
SCHEDULES
 PTA Drawing No: 11-A-107-LA0003 Rev: C



| PLANT SCHEDULE | | | | |
|----------------|------------------------------------|---------------------------|-----------------------|----------------------------|
| MIX | | | AREA | RATE (per m ²) |
| G1-00A HUB | | | Irrigated (Permanent) | 2213 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Bae | Beaufortia aestiva | Summer Flame | 140mm | 805 |
| Bni | Banksia nivea | Honeyrot Dryandra | 140mm | 805 |
| Bbl | Banksia blechnifolia | Groundcover Banksia | 140mm | 805 |
| Cju | Conostylis juncea | Cotton Heads | 140mm | 805 |
| Dre | Dianella revoluta | Flax Lilly | 140mm | 805 |
| Egl | Eremophila glabra | Emu Bush | 140mm | 805 |
| Epa | Eremaea pauciflora | | 140mm | 805 |
| Gcr | Grevillea crithmifolia (prostrate) | Little Crith | 140mm | 805 |
| Oli | Dampiera linearis | Western Blue | 140mm | 805 |
| Tmu | Thysanotus multiflorus | Many-Flowered Fringe Lily | 140mm | 805 |
| Gsy | Grevillea synapheae | Catkin Grevillea | 140mm | 805 |
| | | | TOTAL | 8853 |

| MIX | | | AREA | RATE (per m ²) |
|--------------|------------------------|---------------------------|-----------------------|----------------------------|
| G1-00B YOUTH | | | Irrigated (Permanent) | 1064 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Bae | Beaufortia aestiva | Summer Flame | 140mm | 710 |
| Bbl | Banksia blechnifolia | Groundcover Banksia | 140mm | 710 |
| Cju | Conostylis juncea | Cotton Heads | 140mm | 710 |
| Dre | Dianella revoluta | Flax Lilly | 140mm | 710 |
| Egl | Eremophila glabra | Emu bush | 140mm | 710 |
| Tmu | Thysanotus multiflorus | Many-Flowered Fringe Lily | 140mm | 710 |
| | | | TOTAL | 4257 |

| MIX | | | AREA | RATE (per m ²) |
|-------------|-----------------------------------|---------------------------|-----------------------|----------------------------|
| G1-00C PLAY | | | Irrigated (Permanent) | 207 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Ala | Acacia lasiocarpa, (prostrate) | Panjang | 140mm | 118 |
| Dli | Dampiera linearis | Western Blue | 140mm | 118 |
| Dre | Dianella revoluta | Flax Lilly | 140mm | 118 |
| Egl | Eremophila glabra | Emu Bush | 140mm | 118 |
| Tmu | Thysanotus multiflorus | Many-Flowered Fringe Lily | 140mm | 118 |
| Gob | Grevillea obtusifolia (prostrate) | Leaved Grevillea | 140mm | 118 |
| Hsc | Hibbertia scandens | Guinea Flower | 140mm | 118 |
| | | | TOTAL | 828 |

| MIX | | | AREA | RATE (per m ²) |
|--------------|-------------------------------------|--------------------------|-----------------------|----------------------------|
| G1-00D PLAZA | | | Irrigated (Permanent) | 2037 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Ala | Acacia lasiocarpa, (prostrate) | Panjang | 140mm | 453 |
| Bpr | Baumea preissii | Broad Twig Sedge | 140mm | 453 |
| Bib | Brachyscome iberidifolia | Swan River Daisy | 140mm | 453 |
| Bbl | Banksia blechnifolia | Groundcover Banksia | 140mm | 453 |
| Bgr | Banksia grandis, (dwarf) | Bull Banksia | 140mm | 453 |
| Cco | Chorizema cordata | Heart Leaved Flamed Leaf | 140mm | 453 |
| Bbl | Dampiera linearis | Western Blue | 140mm | 453 |
| Dre | Dianella revoluta | Flax Lilly | 140mm | 453 |
| Cju | Eremophila glabra | Emu Bush | 140mm | 453 |
| Dre | Ficinia nodosa | Knotted Club Rush | 140mm | 453 |
| Hli | Hakea lissocarpa | Honey Bush | 140mm | 453 |
| Egl | Grevillea thelemanniana (prostrate) | Spider Net Grevillea | 140mm | 453 |
| Gqu | Grevillea quercifolia | Oak Leaved Grevillea | 140mm | 453 |
| Gob | Grevillea obtusifolia (prostrate) | Leaved Grevillea | 140mm | 453 |
| Hpu | Hemidandra pungens | Snake Bush | 140mm | 453 |
| Kpr | Kennedia prostrata | Running Postman | 140mm | 453 |
| Mse | Melaleuca seriata | Melaleuca | 140mm | 453 |
| Poc | Patersonia occidentalis | Purple Flag | 140mm | 453 |
| | | | TOTAL | 8150 |

| MIX | | | AREA | RATE (per m ²) |
|--------|------------------------|---------------------------|-----------------------|----------------------------|
| G1-00E | | | Irrigated (Permanent) | 1203 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Bae | Beaufortia aestiva | Summer Flame | 140mm | 802 |
| Bbl | Banksia blechnifolia | Groundcover Banksia | 140mm | 802 |
| Cju | Conostylis juncea | Cotton Heads | 140mm | 802 |
| Dre | Dianella revoluta | Flax Lilly | 140mm | 802 |
| Egl | Eremophila glabra | Emu Bush | 140mm | 802 |
| Tmu | Thysanotus multiflorus | Many-Flowered Fringe Lily | 140mm | 802 |
| | | | TOTAL | 4811 |

| MIX | | | AREA | RATE (per m ²) |
|---------------------|--------------------------------|---------------------------|-----------------------|----------------------------|
| G2-00A URBAN LOUNGE | | | Irrigated (Permanent) | 926 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Ber | Bossiaea eriocarpa | Common Brown Pea | 50mm Tube | 278 |
| Oli | Dampiera linearis | Western Blue | 50mm Tube | 278 |
| Dre | Dianella revoluta | Flax Lilly | 140mm | 278 |
| Egl | Eremophila glabra | Emu Bush | 140mm | 278 |
| Tmu | Thysanotus multiflorus | Many-Flowered Fringe Lily | 50mm Tube | 278 |
| Hli | Hakea lissocarpa | Honey Bush | 50mm Tube | 278 |
| Mfr | Macrozamia fraseri | Djiridji | 140mm | 278 |
| Mse | Melaleuca seriata | Melaleuca | 50mm Tube | 278 |
| Poc | Patersonia occidentalis | Purple Flag | 140mm | 278 |
| Ala | Acacia lasiocarpa, (prostrate) | Panjang | 50mm Tube | 278 |
| | | | TOTAL | 2779 |

| MIX | | | AREA | RATE (per m ²) |
|-----------------------|-----------------------------------|--------------------------|-----------------------|----------------------------|
| G2-00B SHADE TOLERANT | | | Irrigated (Permanent) | 6747 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Ala | Acacia lasiocarpa, (prostrate) | Panjang | 50mm Tube | 2530 |
| Cco | Chorizema cordata | Heart Leaved Flamed Leaf | 50mm Tube | 2530 |
| Egl | Eremophila glabra | Emu Bush | 140mm | 2530 |
| Gob | Grevillea obtusifolia (prostrate) | Leaved Grevillea | 140mm | 2530 |
| Hsc | Hibbertia scandens | Guinea Flower | 50mm Tube | 2530 |
| Min | Melaleuca incana | Grey honeymyrtle | 140mm | 2530 |
| Lom | Lomandra little con | Mat Rush | 140mm | 2530 |
| Bre | Banksia repens | Creeping Banksia | 50mm Tube | 2530 |
| | | | TOTAL | 20242 |

| MIX | | | AREA | RATE (per m ²) |
|--------------------|---------------------------|---------------------|-----------------------|----------------------------|
| G2-00C SWALE BASES | | | Irrigated (Permanent) | 3601 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Ael | Austrostipa elegantissima | Feather Spear Grass | 140mm | 4801 |
| Bju | Baumea juncea | Bare Twig Rush | 140mm | 4801 |
| Bar | Baumea articulata | Jointed Rush | 140mm | 4801 |
| Fno | Ficinia nodosa | Knotted Club Rush | 140mm | 4801 |
| Lca | Lepidosperma calcicola | Coastal Sedge | 140mm | 4801 |
| Min | Melaleuca incana | Grey Honeymyrtle | 140mm | 4801 |
| | | | TOTAL | 28804 |

| MIX | | | AREA | RATE (per m ²) |
|----------------------|------------------------|--------------------|-----------------------|----------------------------|
| G2-00D SWALE BATTERS | | | Irrigated (Permanent) | 1116 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Bel | Beaufortia elegans | Elegant Beaufortia | 50mm Tube | 638 |
| Cac | Conostylis aculeata | Prickly Conostylis | 50mm Tube | 638 |
| Dol | Darwinia oldfieldii | Oldfields Darwinia | 50mm Tube | 638 |
| Dre | Dianella revoluta | Flax Lilly | 50mm Tube | 638 |
| Fno | Ficinia nodosa | Knotted Club Rush | 50mm Tube | 638 |
| Kpr | Kennedia prostrata | Running Postman | 50mm Tube | 638 |
| Lgl | Lepidosperma gladiatum | Coast Sword-Sedge | 50mm Tube | 638 |
| | | | TOTAL | 4464 |

| MIX | | | AREA | RATE (per m ²) |
|------------------|-------------------------------------|------------------------|-----------------------|----------------------------|
| G2-00E PSP EDGES | | | Irrigated (Permanent) | 3163 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Gth | Grevillea thelemanniana (prostrate) | Spider Net Grevillea | 50mm Tube | 633 |
| Egl | Eremophila glabra | Emu Bush | 50mm Tube | 633 |
| Hro | Hypocalymma robustum | Swan River Myrtle | 50mm Tube | 633 |
| Dre | Dianella revoluta | Flax Lilly | 140mm | 633 |
| Fno | Ficinia nodosa | Knotted Club Rush | 140mm | 633 |
| Gcr | Grevillea crithmifolia (prostrate) | Little Crith | 50mm Tube | 633 |
| Cac | Conostylis aculeata | Prickly Conostylis | 50mm Tube | 633 |
| Cju | Conostylis juncea | Running Postman | 50mm Tube | 633 |
| Ahu | Alyogyne huegelii | Native Hibiscus | 50mm Tube | 633 |
| Hpu | Hemidandra pungens | Snake Bush | 140mm | 633 |
| Bib | Brachyscome iberidifolia | Swan River Daisy | 50mm Tube | 633 |
| Cfr | Calytrix fraseri A.Cunn | Pink Summer Calytrix | 50mm Tube | 633 |
| Dci | Darwinia citriodora | Lemon Scented Darwinia | 140mm | 633 |
| Dph | Daviesia physodes | Fire Bush | 50mm Tube | 633 |
| Agl | Acacia glaucoptera | Flat Wattle | 50mm Tube | 633 |
| | | | TOTAL | 9488 |

| MIX | | | AREA | RATE (per m ²) |
|---------------|-----------------------------|--------------------|-----------------------|----------------------------|
| G2-00F VERGES | | | Irrigated (Permanent) | 506 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Ala | Acacia lasiocarpa prostrate | Prostrate Wattle | 50mm Tube | 253 |
| Cac | Conostylis aculeata | Prickly Conostylis | 140mm | 253 |
| Dpi | Darwinia pinifolia | Dwarf Dryandra | 50mm Tube | 253 |
| Dre | Dianella revoluta | Little Rev | 140mm | 253 |
| Egl | Eremophila glabra | Emu Bush | 140mm | 253 |
| Dre | Ficinia nodosa | Knotted Club Rush | 50mm Tube | 253 |
| | | | TOTAL | 1517 |

| MIX | | | AREA | RATE (per m ²) |
|----------------------|-------------------------------------|----------------------|-----------------------|----------------------------|
| G2-00G PLANTED EDGES | | | Irrigated (Temporary) | 2654 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Apu | Acacia pulchella | Prickly Moses | 50mm Tube | 498 |
| Cac | Conostylis aculeata | Prickly Conostylis | 50mm Tube | 498 |
| Egl | Eremophila glabra | Emu Bush | 140mm | 498 |
| Poc | Patersonia occidentalis | Purple Flag | 140mm | 498 |
| Gth | Grevillea thelemanniana (prostrate) | Spider Net Grevillea | 50mm Tube | 498 |
| Hpu | Hemidandra pungens | Snake Bush | 140mm | 498 |
| Sin | Scholtzia involucreta | Spiked Scholtzia | 50mm Tube | 498 |
| Ber | Bossiaea eriocarpa | Common Brown Pea | 50mm Tube | 498 |
| Agl | Acacia glaucoptera | Flat Wattle | 140mm | 498 |
| Hli | Hakea lissocarpa | Honey Bush | 50mm Tube | 498 |
| Bib | Brachyscome iberidifolia | Swan River Daisy | 140mm | 498 |
| Vpl | Verticordia plumosa | Plumed Featherflower | 50mm Tube | 498 |
| Gcr | Grevillea crithmifolia (prostrate) | Little Crith | 50mm Tube | 498 |
| Cfr | Calytrix fraseri A.Cunn | Pink Summer Calytrix | 50mm Tube | 498 |
| Gca | Gastrolobium capitatum | Bacon & Eggs | 50mm Tube | 498 |
| Gqu | Grevillea quercifolia | Oak leaved Grevillea | 140mm | 498 |
| | | | TOTAL | 7963 |

| MIX | | | AREA | RATE (per m ²) |
|---------------------|-------------------------------------|----------------------|-----------------------|----------------------------|
| G3-00A REVEGETATION | | | Irrigated (Temporary) | 1859 sqm |
| CODE | BOTANICAL NAME | COMMON NAME | SIZE | TOTAL |
| Apu | Acacia pulchella | Prickly Moses | 50mm Tube | 465 |
| Cac | Conostylis aculeata | Prickly Conostylis | 50mm Tube | 465 |
| Egl | Eremophila glabra | Emu Bush | 50mm Tube | 465 |
| Poc | Patersonia occidentalis | Purple Flag | 50mm Tube | 465 |
| Gth | Grevillea thelemanniana (prostrate) | Spider Net Grevillea | 50mm Tube | 465 |
| Hpu | Hemidandra pungens | Snake Bush | 50mm Tube | 465 |
| Sin | Scholtzia involucreta | Spiked Scholtzia | 50mm Tube | 465 |
| Ber | Bossiaea eriocarpa | Common Brown Pea | 50mm Tube | 465 |
| Agl | Acacia glaucoptera | Flat Wattle | 50mm Tube | 465 |
| Hli | Hakea lissocarpa | Honey Bush | 50mm Tube | 465 |
| Bib | Brachyscome iberidifolia | Swan River Daisy | 50mm Tube | 465 |
| Vpl | Verticordia plumosa | Plumed Featherflower | 50mm Tube | 465 |
| Gcr | Grevillea crithmifolia (prostrate) | Little Crith | 50mm Tube | 465 |
| Cfr | Calytrix fraseri A.Cunn | Pink Summer Calytrix | 50mm Tube | 465 |
| Gca | Gastrolobium capitatum | Bacon & Eggs | 50mm Tube | 465 |
| Gqu | Grevillea quercifolia | Oak leaved Grevillea | 50mm Tube | 465 |
| | | | TOTAL | 7436 |

DETAILED DESIGN

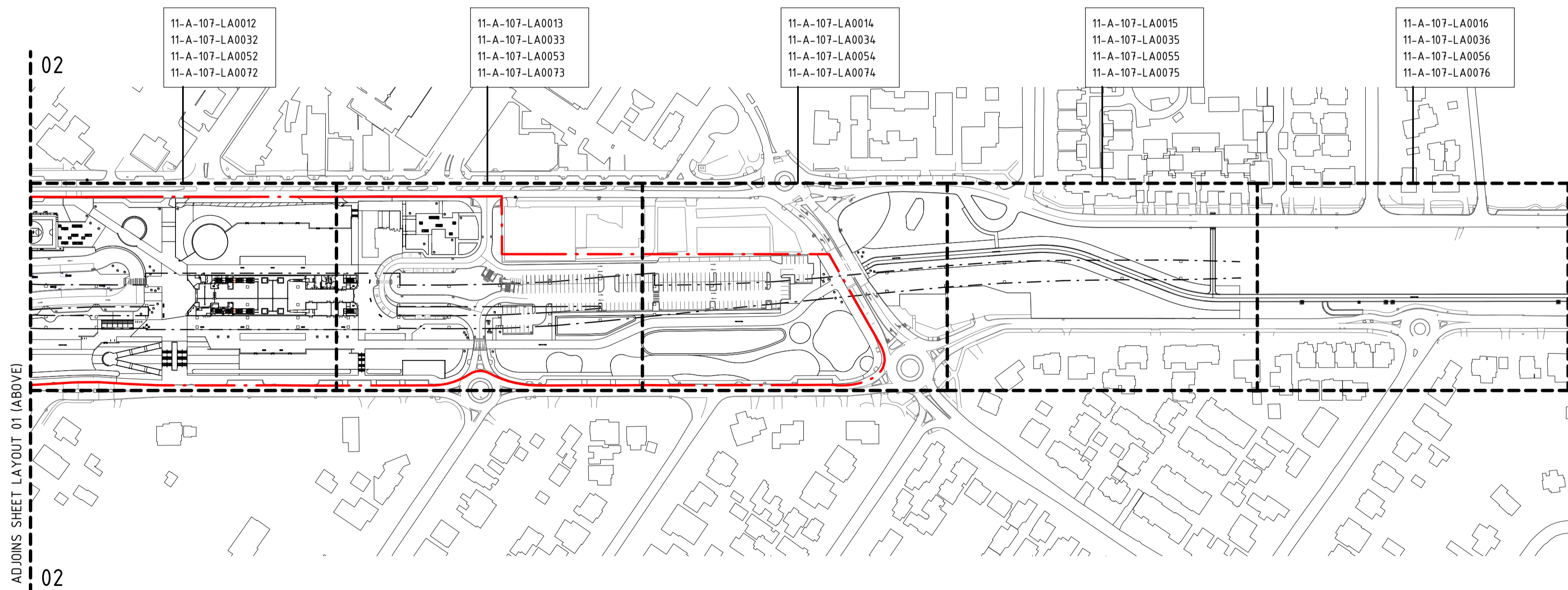
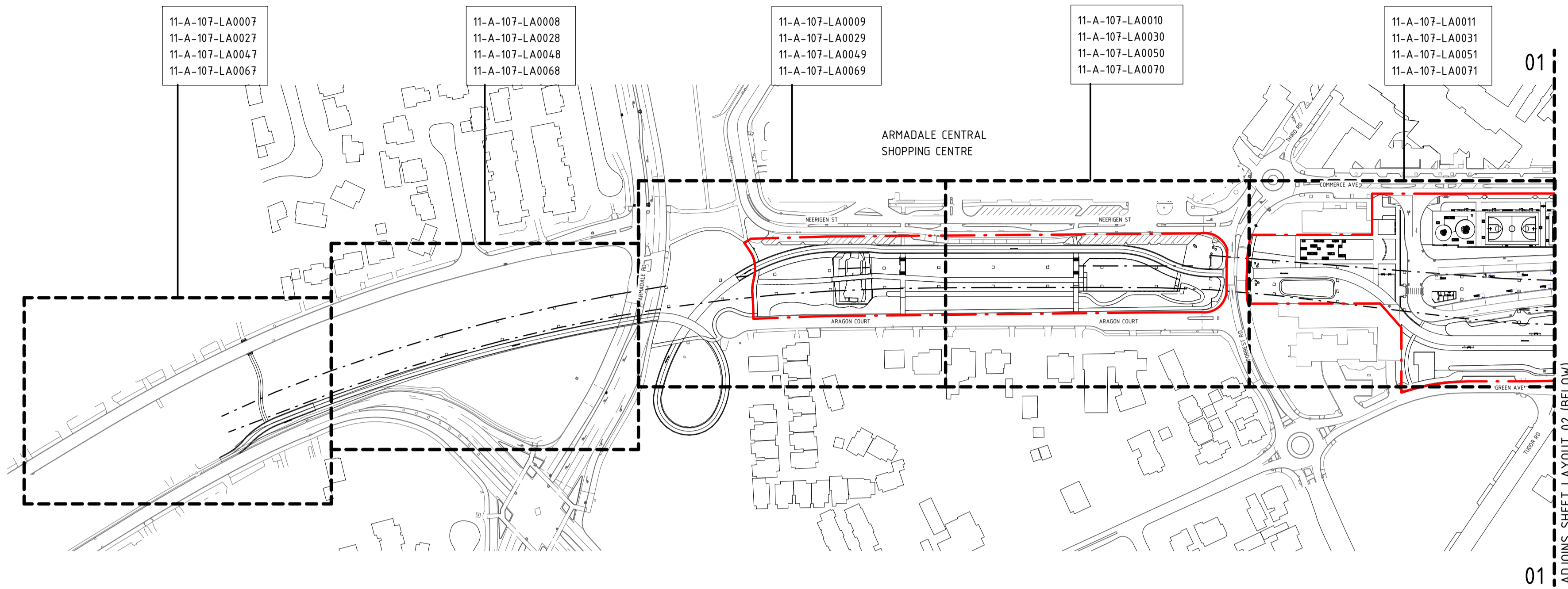
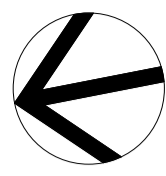
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| A | 02.06.23 | ISSUED FOR | PTA | REVIEW | AMENDMENT |
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Contractor No:R30-UJL-DWG-LA-230-00011 Rev: A

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| REFERENCES | SCALE | DESIGNED | D.Firns |
| | AS SHOWN | DRAWN | Y.Demissie |
| | DATUM | CHECKED | M.Harris |
| | HORIZONTAL: PCG2020 | APPROVED | A.Eyres |
| | VERTICAL: AHD71 | DATE | 02/06/23 |

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| | | BYFORD RAIL EXTENSION | |
| ARMADALE STATION PRECINCT | | | |
| LANDSCAPE | | | |
| PLANTING SCHEDULES | | | |
| PTA Drawing No: 11-A-107-LA0004 | | | Rev: A |



| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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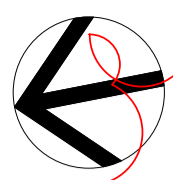
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| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

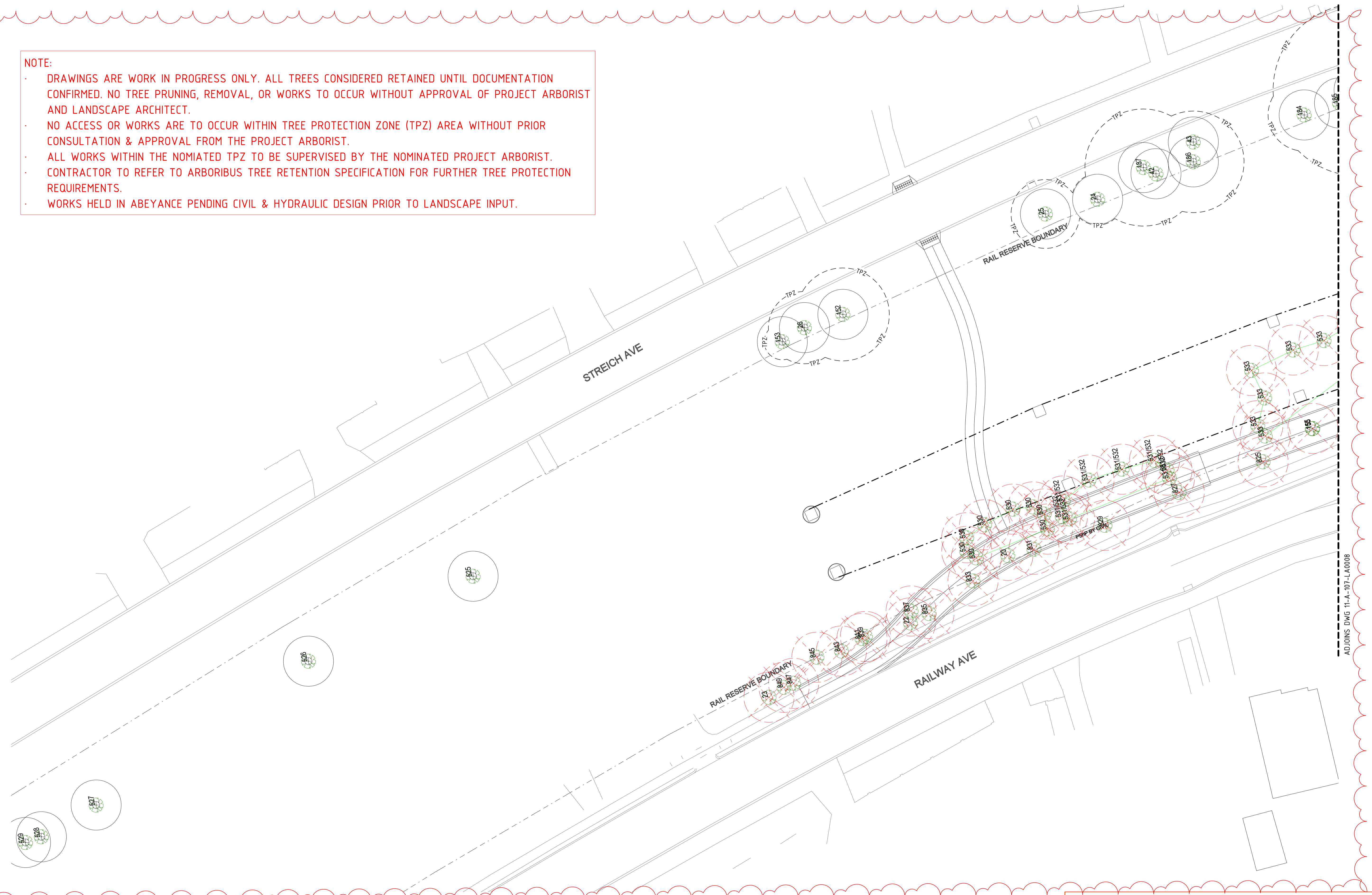
DETAILED DESIGN

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
SHEET LAYOUT PLAN
 PTA Drawing No: 11-A-107-LA0006 Rev: C



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- NO ACCESS OR WORKS ARE TO OCCUR WITHIN TREE PROTECTION ZONE (TPZ) AREA WITHOUT PRIOR CONSULTATION & APPROVAL FROM THE PROJECT ARBORIST.
- ALL WORKS WITHIN THE NOMIATED TPZ TO BE SUPERVISED BY THE NOMINATED PROJECT ARBORIST.
- CONTRACTOR TO REFER TO ARBORIBUS TREE RETENTION SPECIFICATION FOR FURTHER TREE PROTECTION REQUIREMENTS.
- WORKS HELD IN ABEYANCE PENDING CIVIL & HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT.



ADDJONS DWG 11-A-107-LA0008

DETAILED DESIGN

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| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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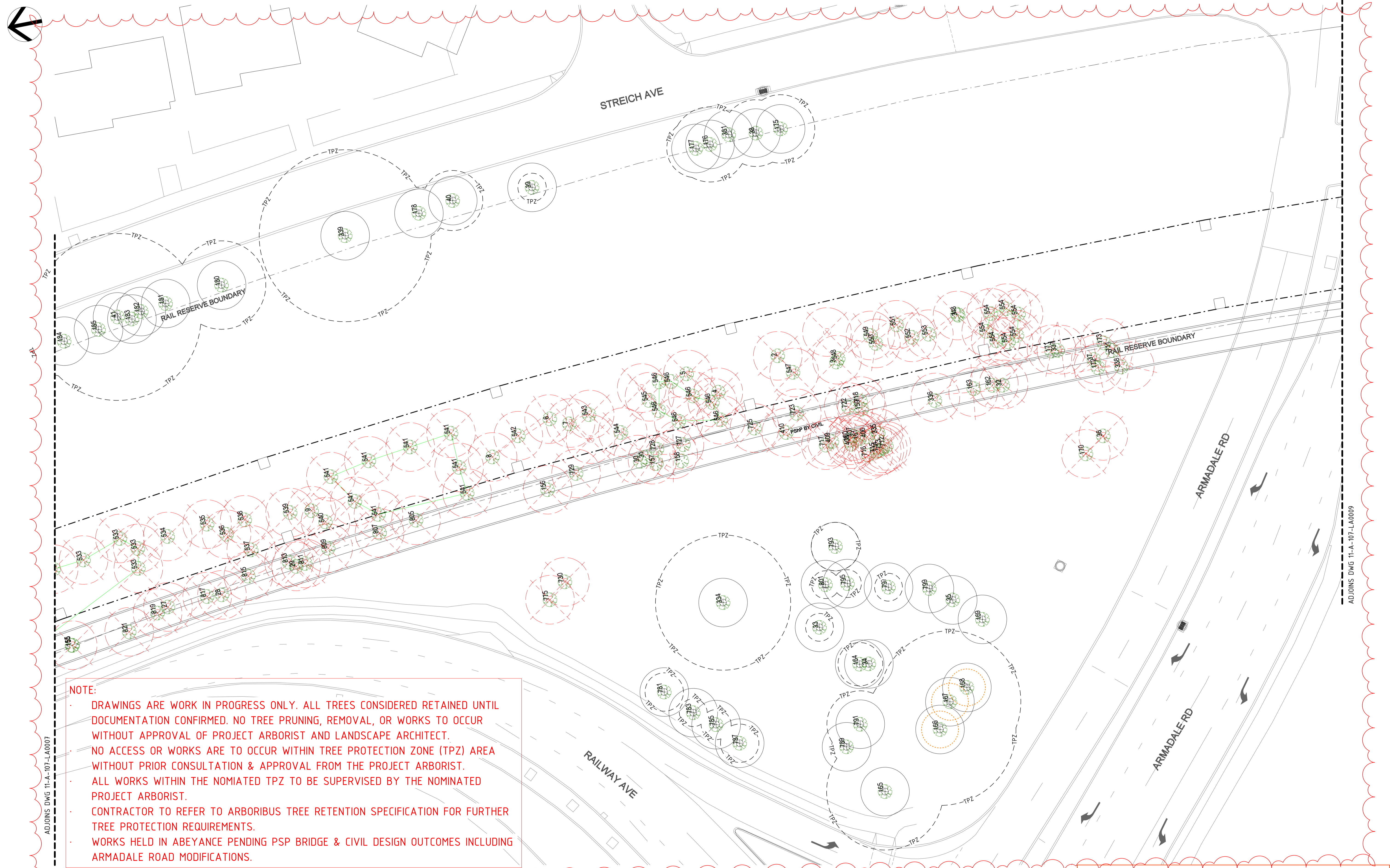
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| VERTICAL: AHD71 |

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| DESIGNED | D.Firms |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| TREE RETENTION PLAN 01 | |
| PTA Drawing No: 11-A-107-LA0007 | Rev: C |



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- WORKS HELD IN ABEYANCE PENDING PSP BRIDGE & CIVIL DESIGN OUTCOMES INCLUDING ARMADALE ROAD MODIFICATIONS.

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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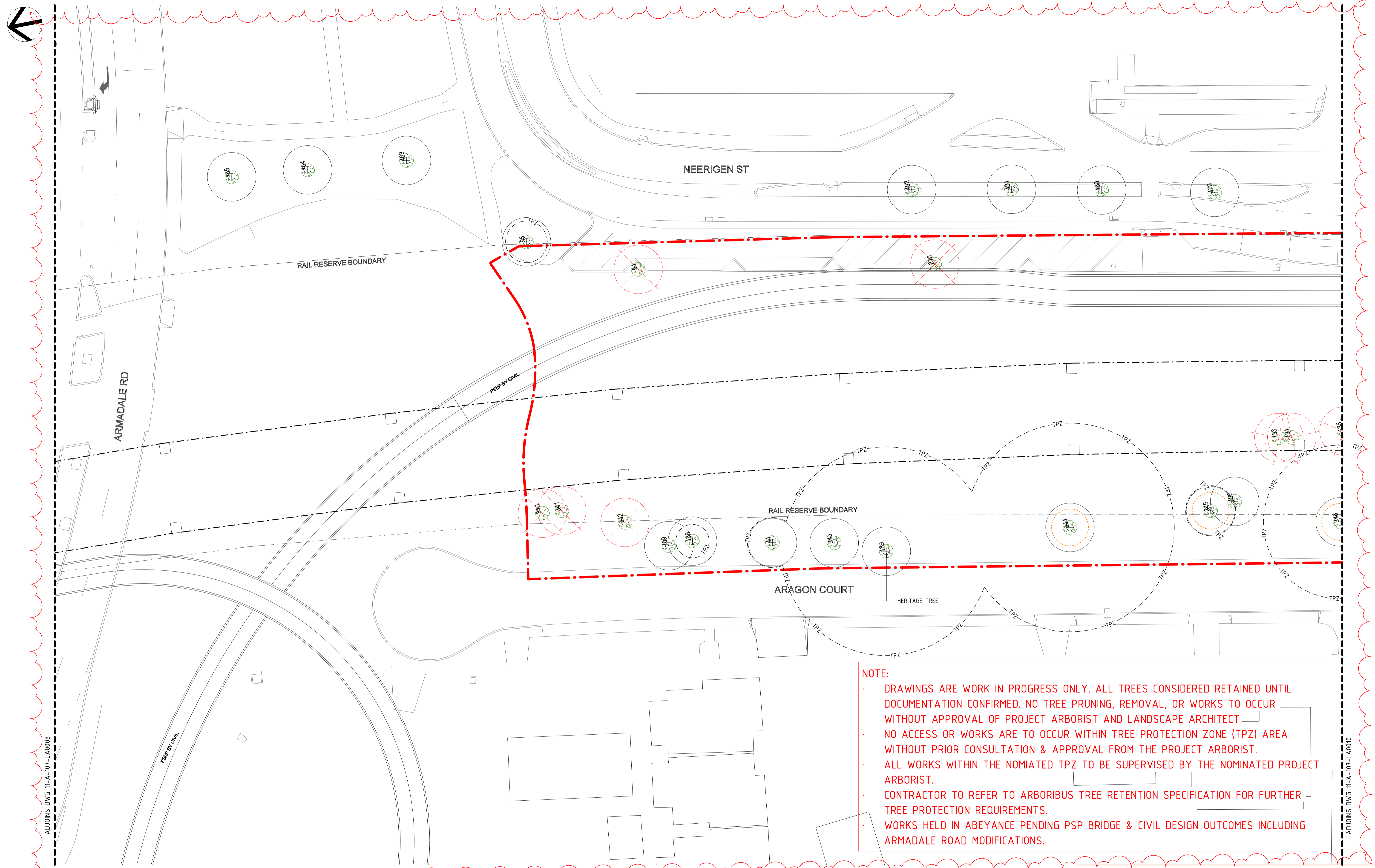


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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
TREE RETENTION PLAN 02
 PTA Drawing No: 11-A-107-LA0008



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- WORKS HELD IN ABEYANCE PENDING PSP BRIDGE & CIVIL DESIGN OUTCOMES INCLUDING ARMADALE ROAD MODIFICATIONS.

DETAILED DESIGN

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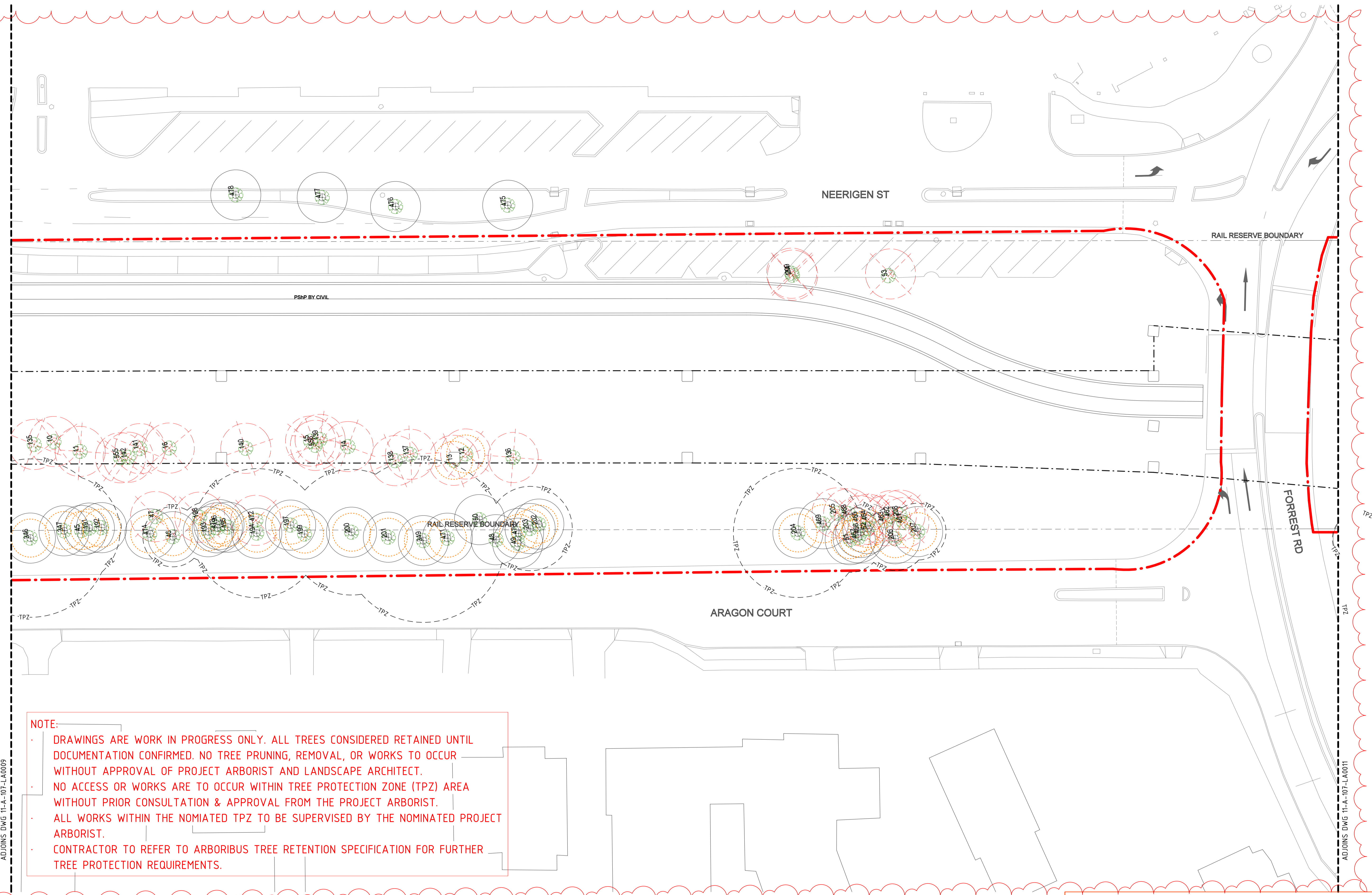
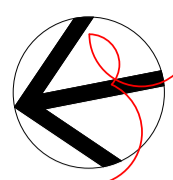


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| TREE RETENTION PLAN 03 | |
| PTA Drawing No: 11-A-107-LA0009 | Rev: C |



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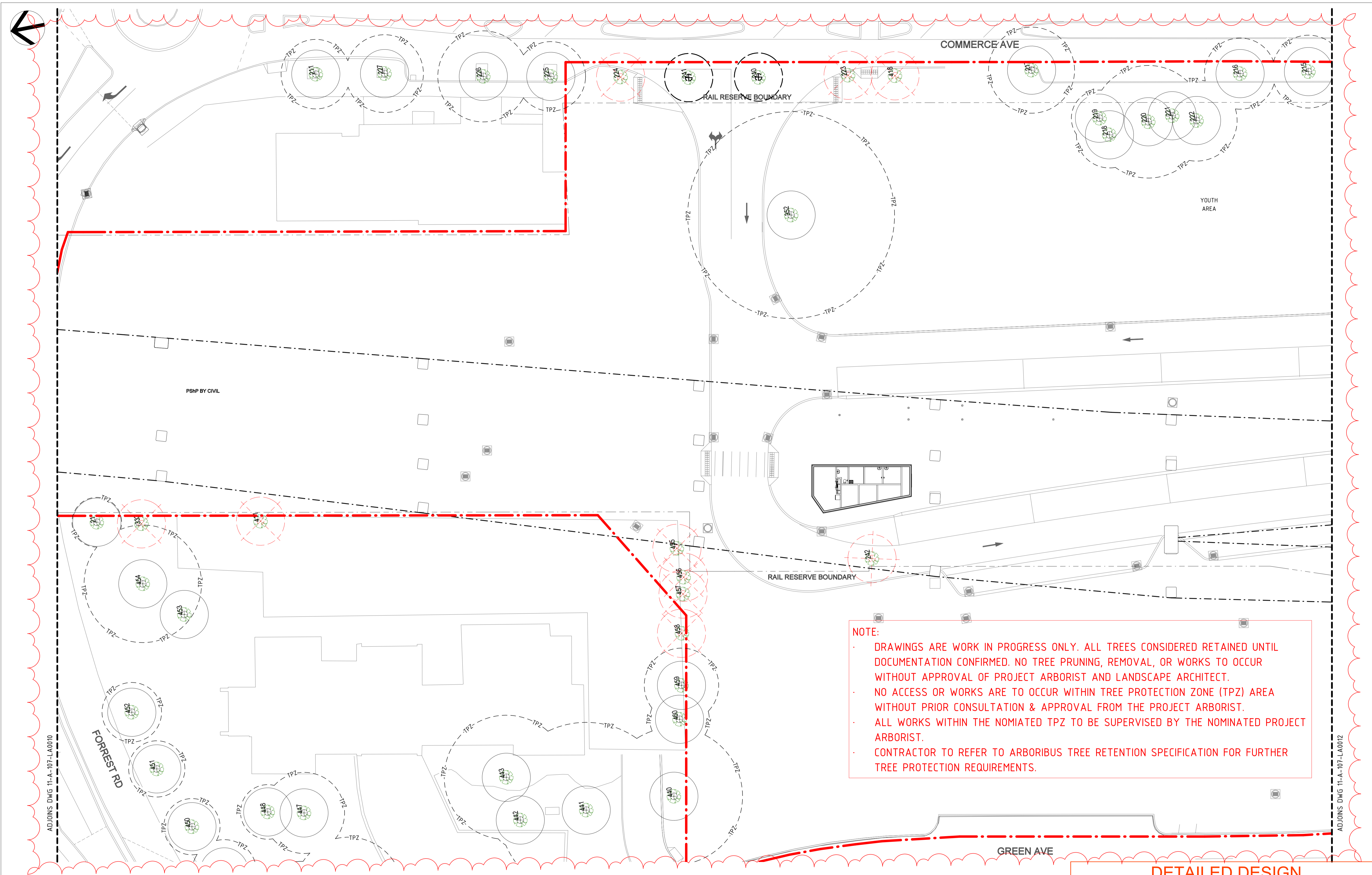


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| TREE RETENTION PLAN 04 | |
| PTA Drawing No: 11-A-107-LA0010 | Rev: C |



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- CONTRACTOR TO REFER TO ARBORIBUS TREE RETENTION SPECIFICATION FOR FURTHER TREE PROTECTION REQUIREMENTS.

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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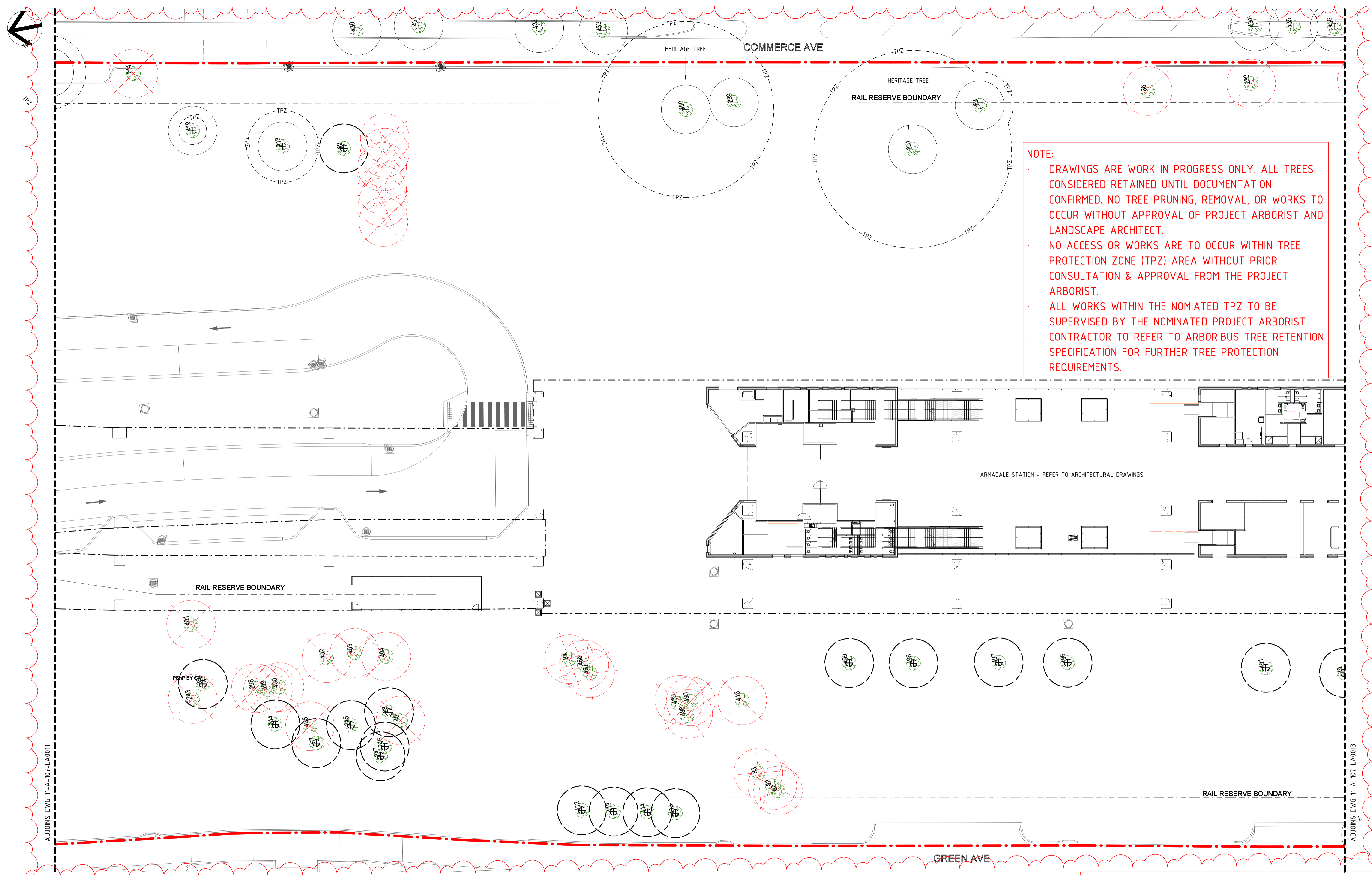


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| DESIGNED |
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| D.Firns |
| DRAWN |
| Y.Demissie |
| CHECKED |
| M.Harris |
| APPROVED |
| A.Eyres |
| DATE |
| 02/06/23 |

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| | BYFORD RAIL EXTENSION ARMADALE STATION PRECINCT LANDSCAPE TREE RETENTION PLAN 05 PTA Drawing No: 11-A-107-LA0011 |
| | Rev: C |



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- CONTRACTOR TO REFER TO ARBORIBUS TREE RETENTION SPECIFICATION FOR FURTHER TREE PROTECTION REQUIREMENTS.

ADJOINS DWG 11-A-107-LA0011

ADJOINS DWG 11-A-107-LA0013

DETAILED DESIGN

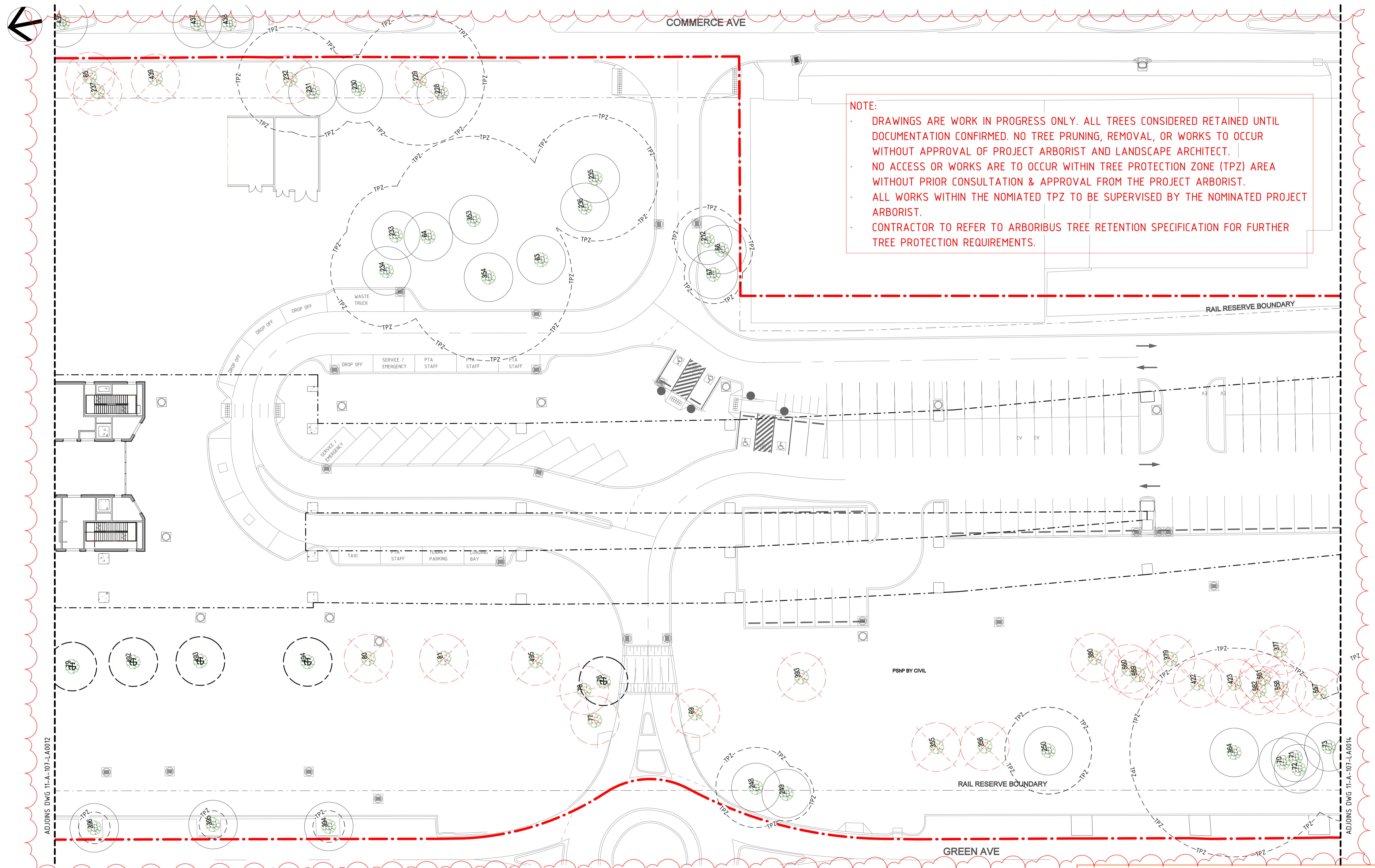
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| Rev: C | |

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| REFERENCES XR01GN_SURVEY_PCG2020 | SCALE 1 : 250 | DESIGNED D.Firns DRAWN Y.Demissie CHECKED M.Harris APPROVED A.Eyres DATE 02/06/23 | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 |
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ADJOINS DWG 11-A-107-LA0012

ADJOINS DWG 11-A-107-LA0014

DETAILED DESIGN

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| | | BYFORD RAIL EXTENSION | |
| ARMADALE STATION PRECINCT | | | |
| LANDSCAPE | | | |
| TREE RETENTION PLAN 07 | | | |
| PTA Drawing No: 11-A-107-LA0013 | | | Rev: C |

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

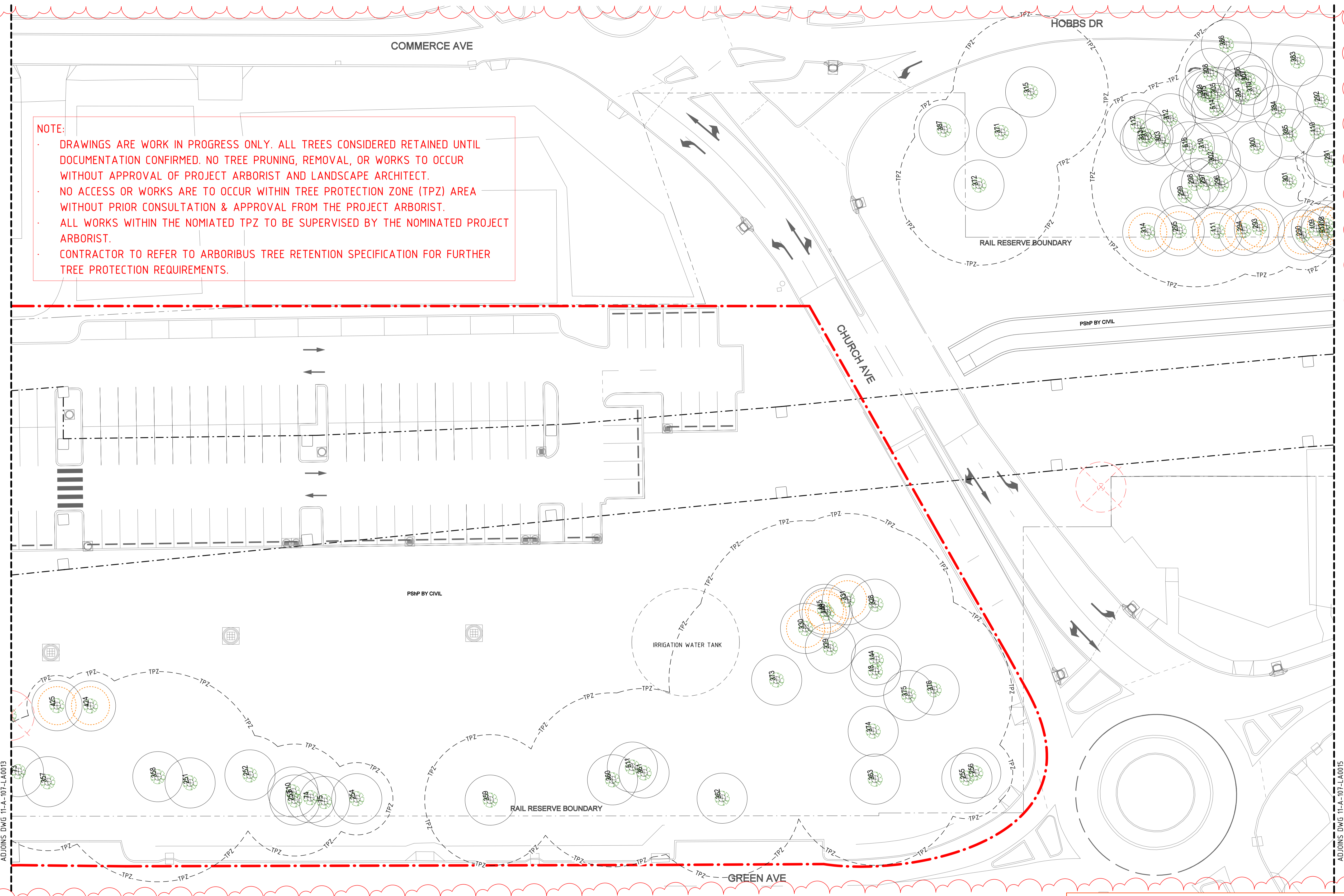
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| DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie | CHECKED M.Harris |
| | APPROVED A.Eyres | DATE 02/06/23 |

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DETAILED DESIGN

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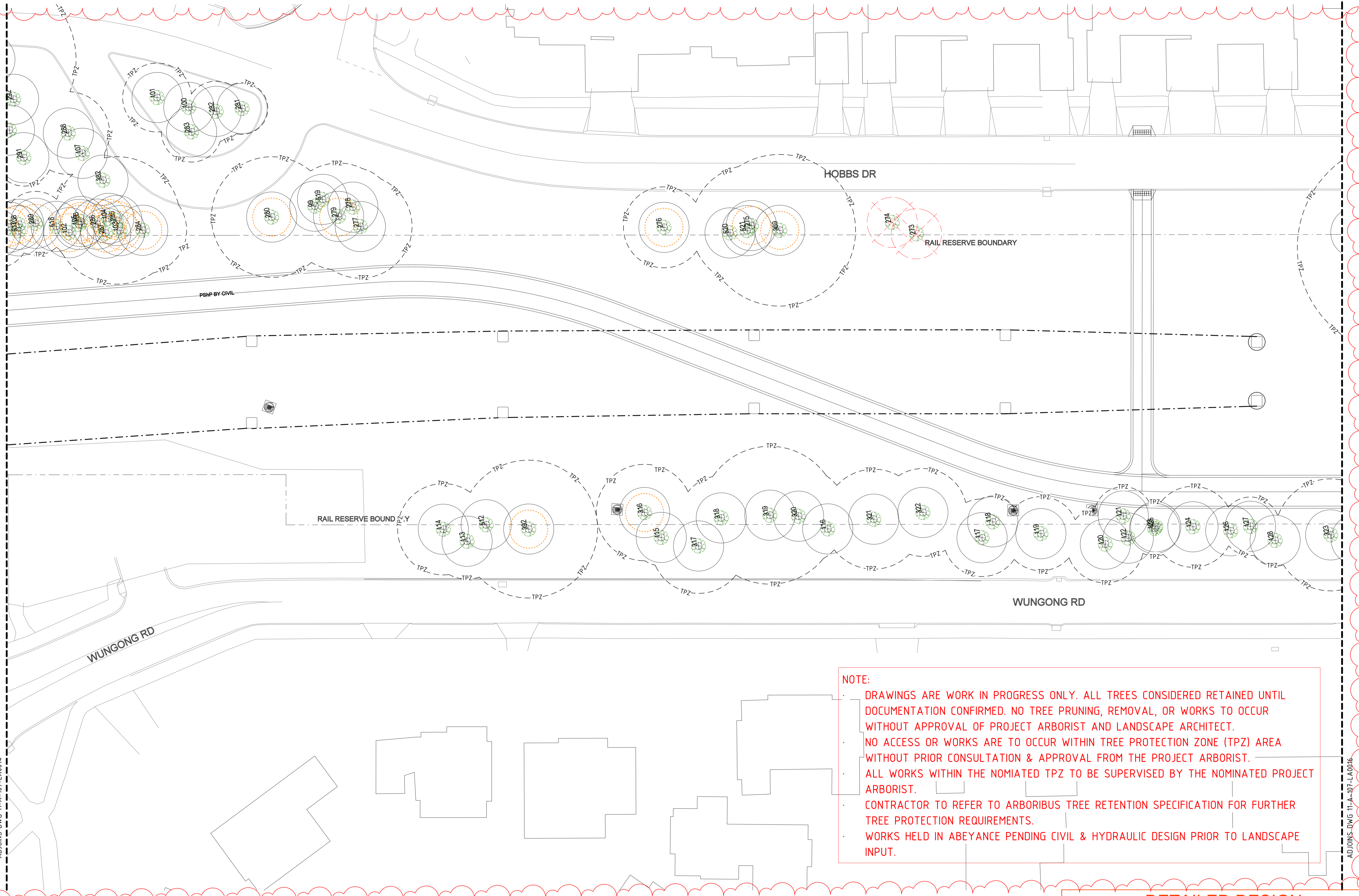
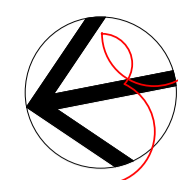


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| DESIGNED | D.Firms |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
TREE RETENTION PLAN 08
 PTA Drawing No: 11-A-107-LA0014



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- WORKS HELD IN ABEYANCE PENDING CIVIL & HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT.

DETAILED DESIGN

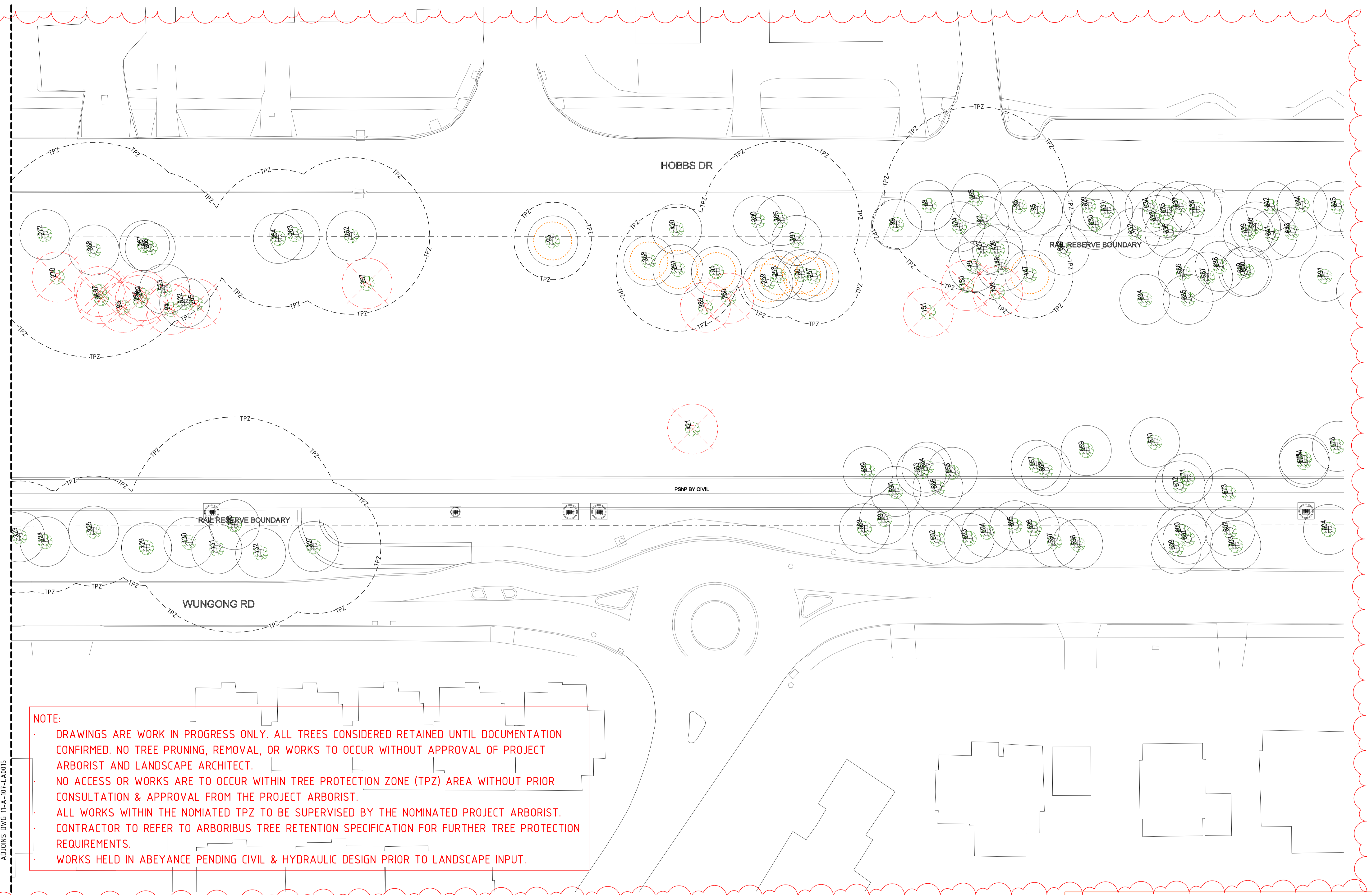
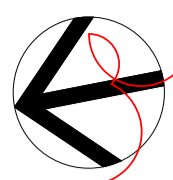
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| DESIGNED | D.Firms |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
TREE RETENTION PLAN 09
 PTA Drawing No: 11-A-107-LA0015 | Rev: A



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- ALL WORKS WITHIN THE NOMIATED TPZ TO BE SUPERVISED BY THE NOMINATED PROJECT ARBORIST. CONTRACTOR TO REFER TO ARBORIBUS TREE RETENTION SPECIFICATION FOR FURTHER TREE PROTECTION REQUIREMENTS.
- WORKS HELD IN ABEYANCE PENDING CIVIL & HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT.

ADJOINS DWG 11-A-107-LA0015

DETAILED DESIGN

| | | | | | | |
|-----------|-----------------------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | | | | | |
| ORIG SIZE | AMENDMENT | | DSN | DRN | CHK | APP |
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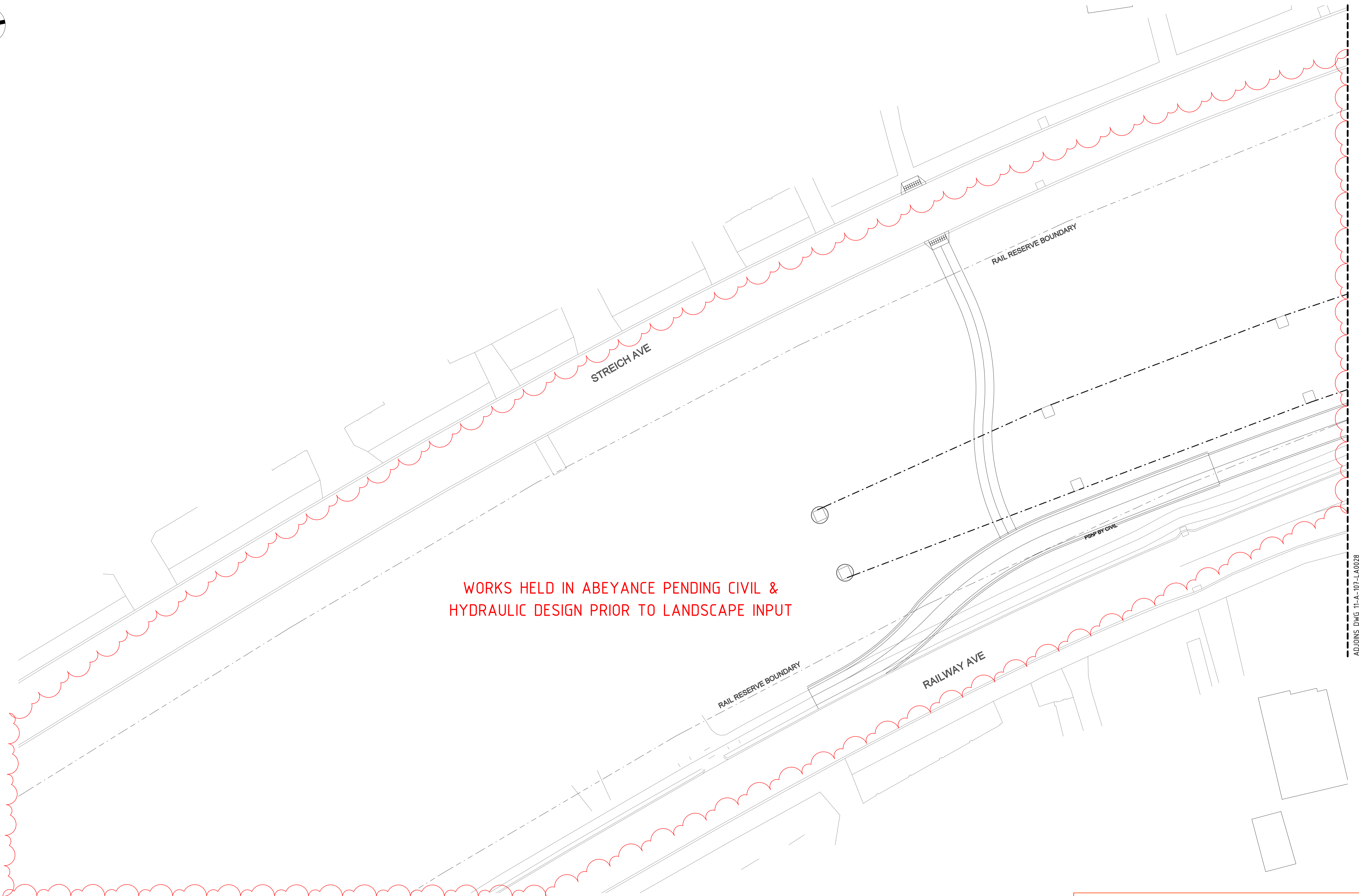
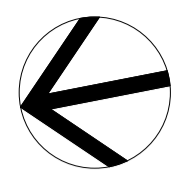


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| REFERENCES |
| XR01GN_SURVEY_PCG2020 |

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| DATUM | |
| HORIZONTAL: | PCG2020 |
| VERTICAL: | AHD71 |

| | |
|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| TREE RETENTION PLAN 10 | |
| PTA Drawing No: | 11-A-107-LA0016 |
| Rev: | A |



WORKS HELD IN ABEYANCE PENDING CIVIL & HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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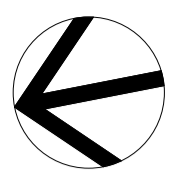


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| VERTICAL: AHD71 |

| | |
|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 01 | |
| PTA Drawing No: 11-A-107-LA0027 | Rev: C |



STREICH AVE

WORKS HELD IN ABEYANCE PENDING PSP BRIDGE & CIVIL DESIGN OUTCOMES INCLUDING ARMADALE ROAD MODIFICATIONS

RAIL RESERVE BOUNDARY

PSP BY CIVIL

RAIL RESERVE BOUNDARY

ARMADALE RD

ARMADALE RD

RAILWAY AVE

ADJOINS DWG 11-A-107-LA0027

ADJOINS DWG 11-A-107-LA0029

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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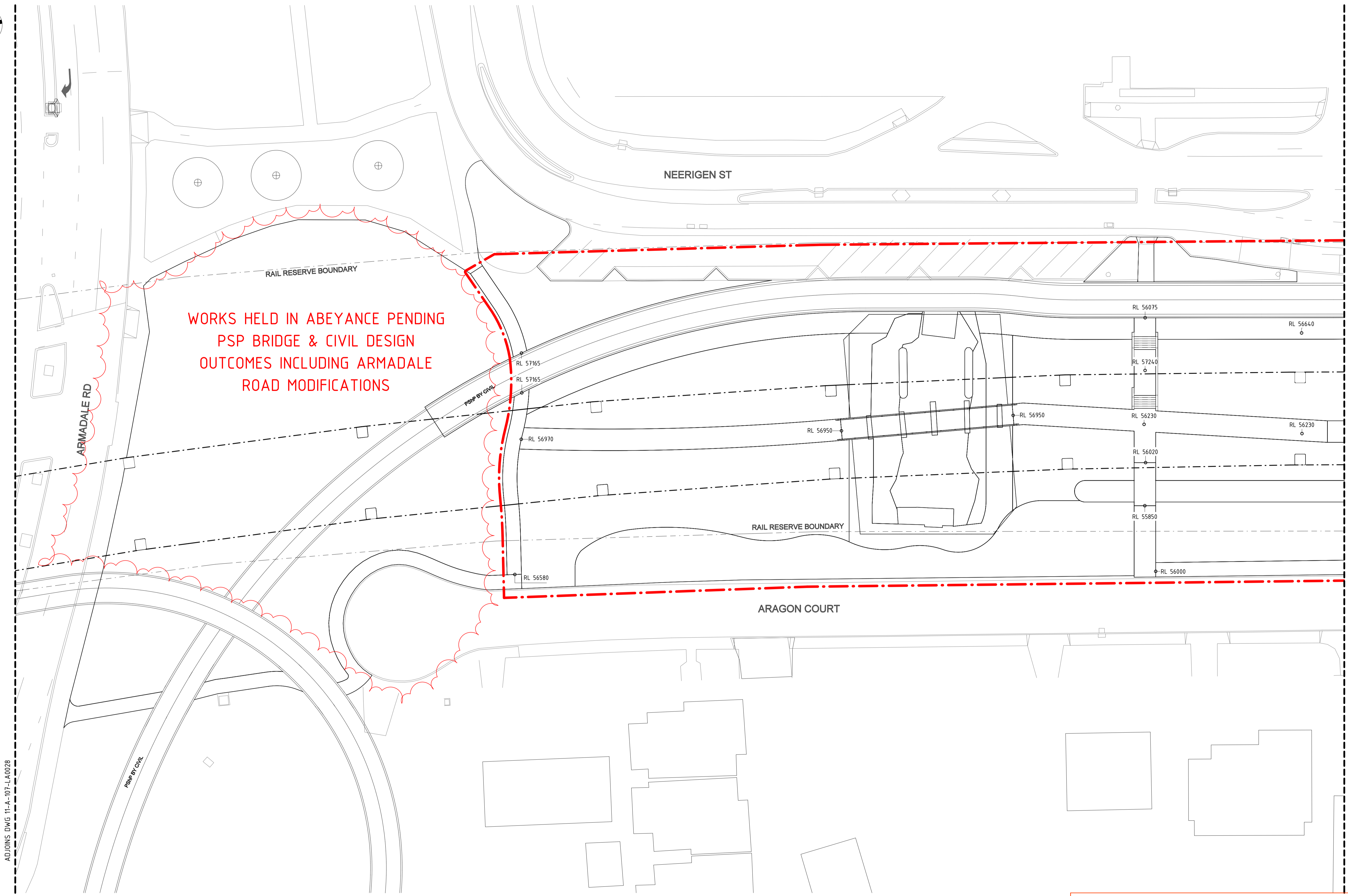
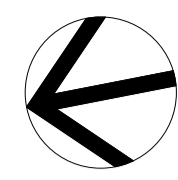


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| VERTICAL: AHD71 |

| | |
|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 02 | |
| PTA Drawing No: 11-A-107-LA0028 | Rev: C |



WORKS HELD IN ABEYANCE PENDING
PSP BRIDGE & CIVIL DESIGN
OUTCOMES INCLUDING ARMADALE
ROAD MODIFICATIONS

ADJOINS DWG 11-A-107-LA0028

ADJOINS DWG 11-A-107-LA0030

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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Contractor No: R30-UDL-DWG-LA-230-00202 Rev: C

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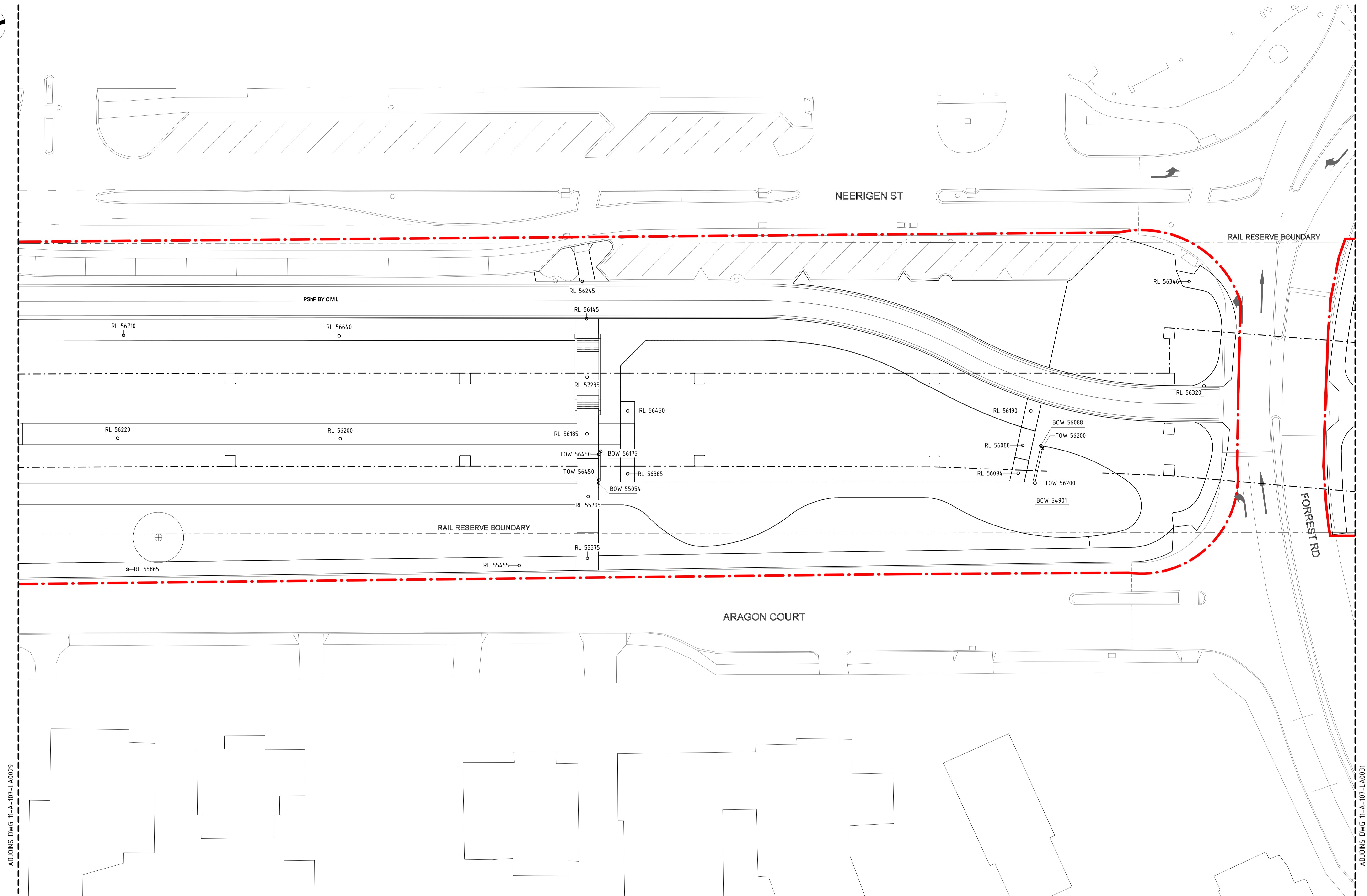
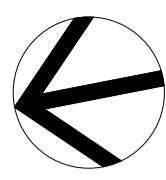
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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyes |
| DATE | 02/06/23 |

DETAILED DESIGN

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
GRADING PLAN 03
 PTA Drawing No: 11-A-107-LA0029

Rev: C



ADJOINS DWG 11-A-107-LA0029

ADJOINS DWG 11-A-107-LA0031

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

ORIG SIZE: **A1** AT ORIGINAL PLOT SIZE

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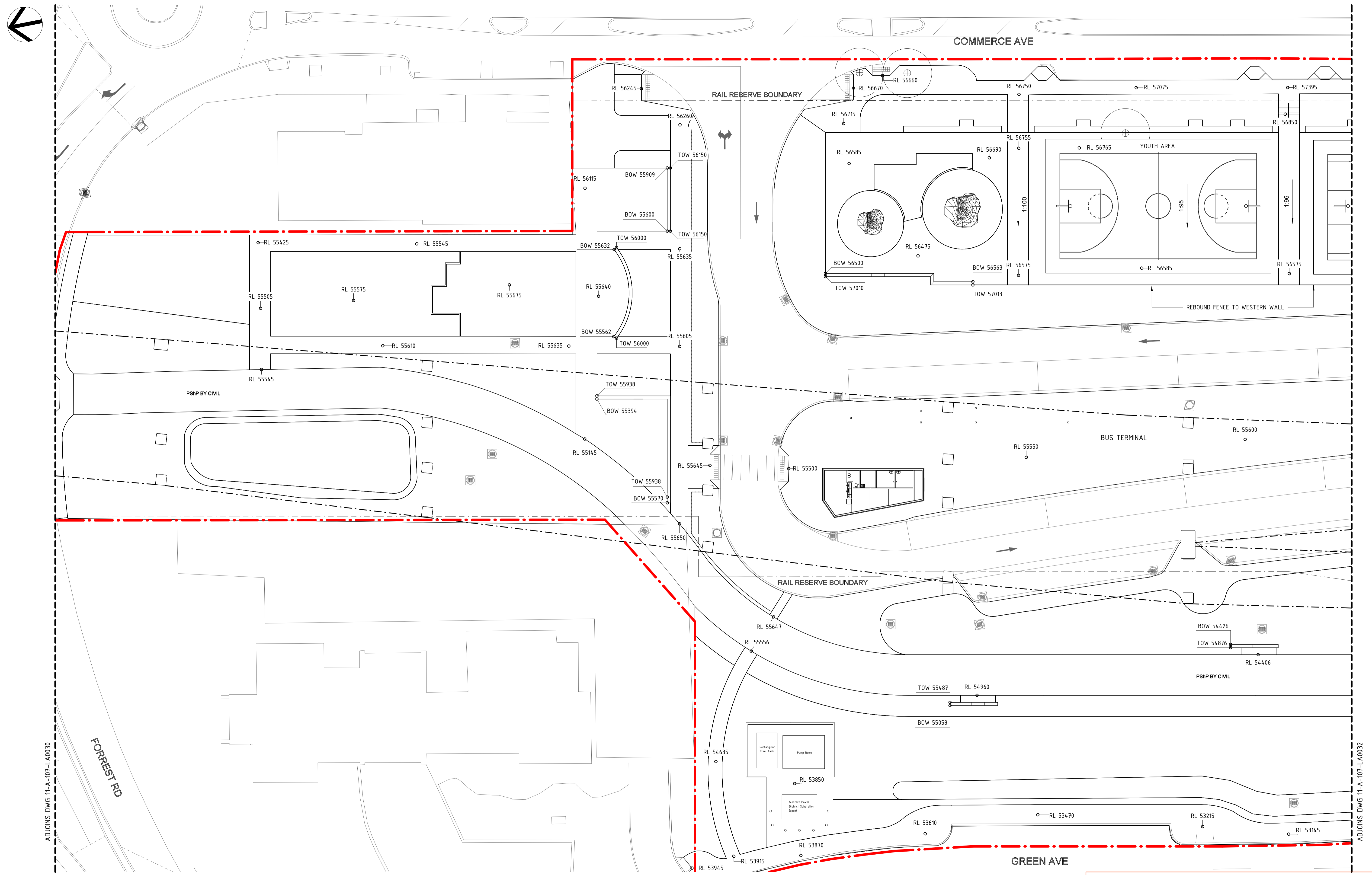


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| VERTICAL: AHD71 |

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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 04 | |
| PTA Drawing No: 11-A-107-LA0030 | Rev: C |



DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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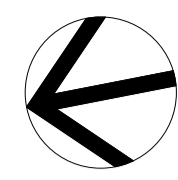
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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 05 | |
| PTA Drawing No: 11-A-107-LA0031 | Rev: C |



COMMERCE AVE

RAIL RESERVE BOUNDARY

JUNIOR PLAYGROUND

BUS TERMINAL

ARMADALE STATION - REFER TO ARCHITECTURAL DRAWINGS

FFL 56300

RAIL RESERVE BOUNDARY

BIKE SHELTER

PSHP BY CIVIL

RAIL RESERVE BOUNDARY

GREEN AVE

ADJOINS DWG 11-A-107-LA0031

ADJOINS DWG 11-A-107-LA0033

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

| ORIG SIZE | AT ORIGINAL PLOT SIZE |
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Contractor No:R30-UJL-DWG-LA-230-0025 | Rev: C

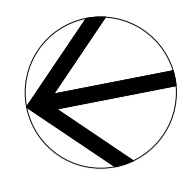
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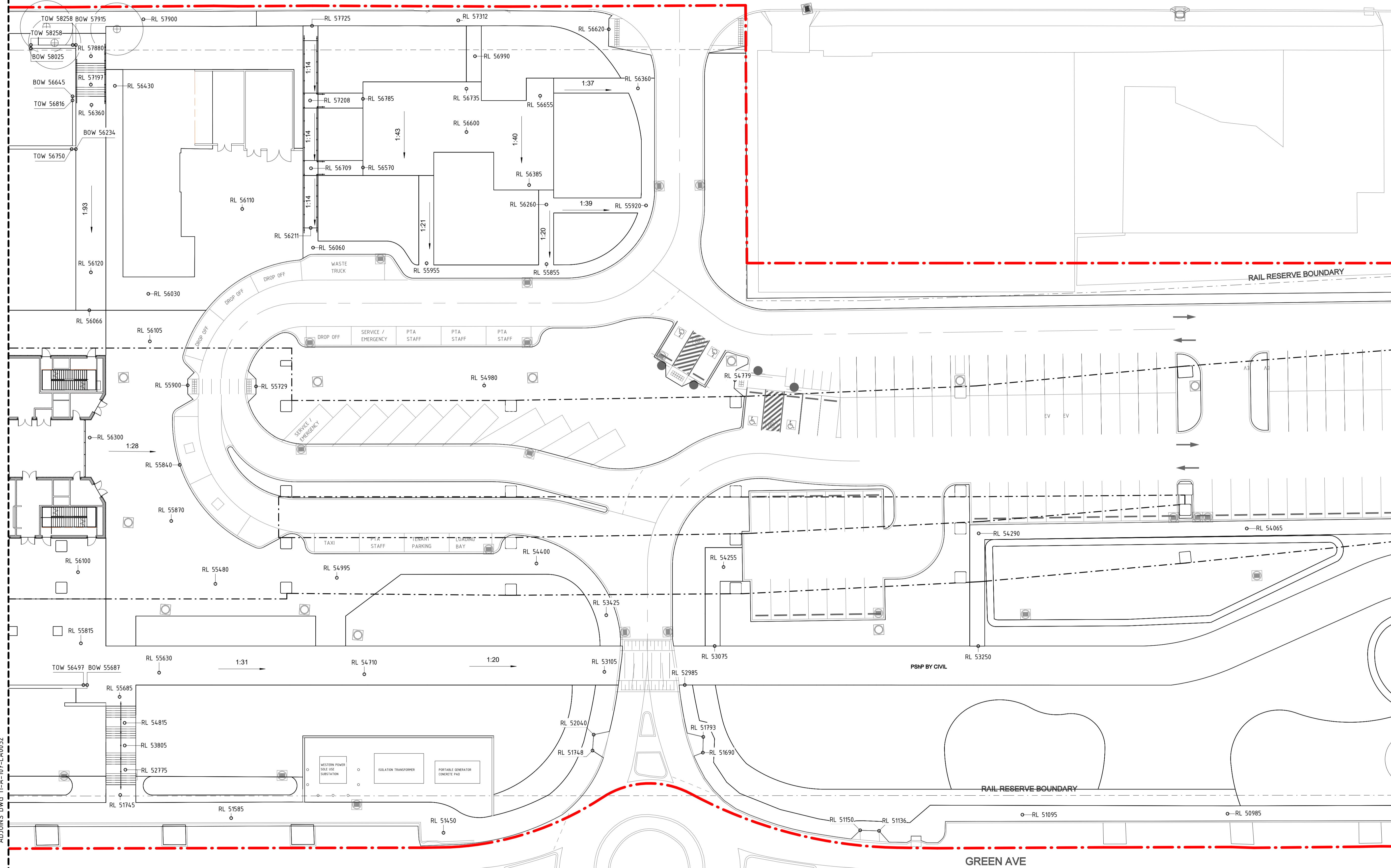
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| DESIGNED | D.Firms |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 06 | |
| PTA Drawing No: 11-A-107-LA0032 | Rev: C |



COMMERCE AVE



ADJOINS DWG 11-A-107-LA0034

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

ORIG SIZE: A1 AT ORIGINAL PLOT SIZE

Scale bar: 0 10 20 30 40 50 100mm

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Contractor No:R30-UDL-DWG-LA-230-00206 Rev: C

| REFERENCES |
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| DATUM |
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| HORIZONTAL: PCG2020 |
| VERTICAL: AHD71 |

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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

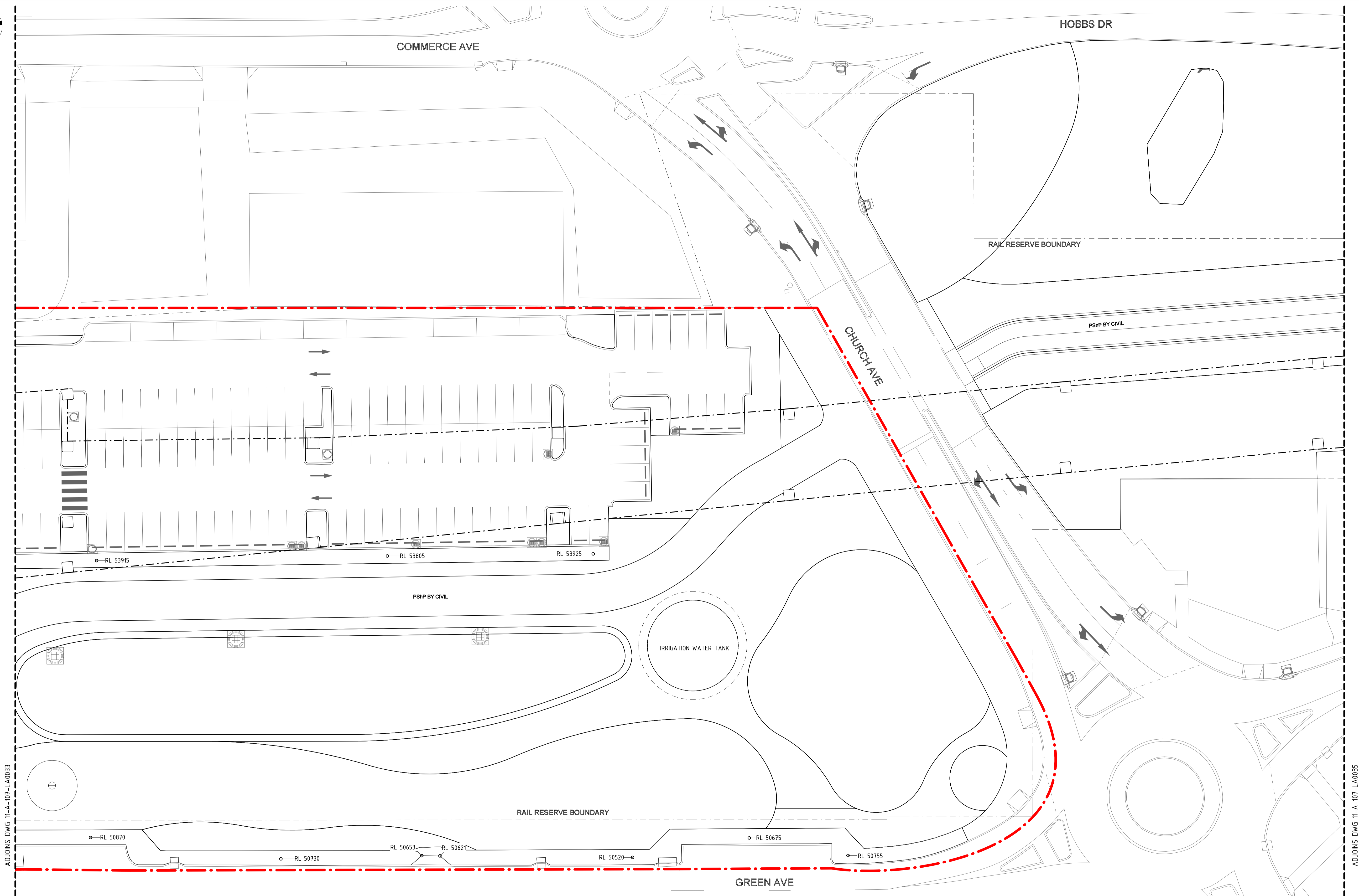
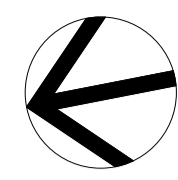
ARMADALE STATION PRECINCT

LANDSCAPE

GRADING PLAN 07

PTA Drawing No: 11-A-107-LA0033

Rev: C



DETAILED DESIGN

| REV | DATE | ISSUED FOR | PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
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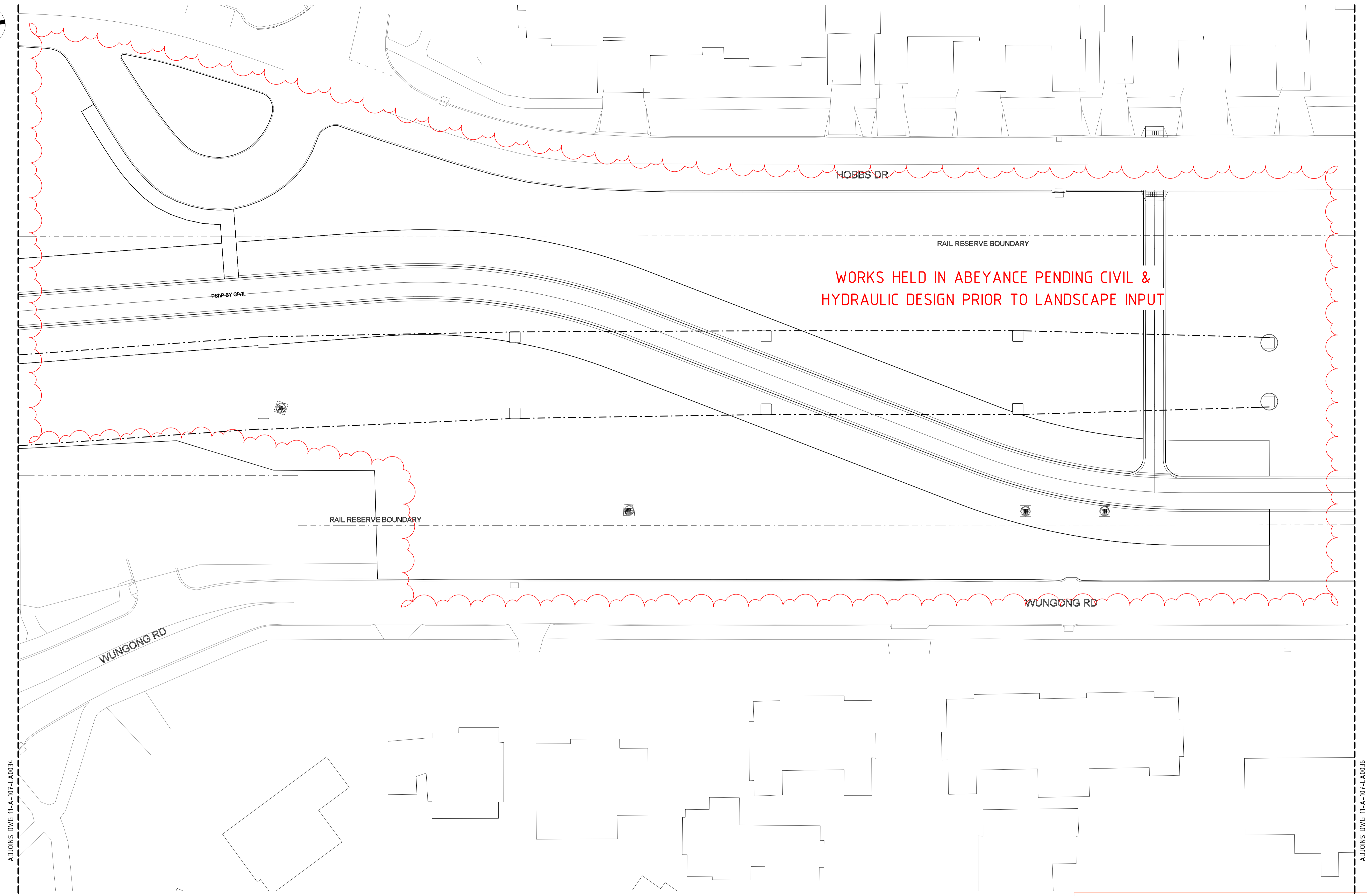
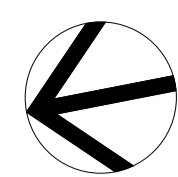


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| VERTICAL: AHD71 |

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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 08 | |
| PTA Drawing No: 11-A-107-LA0034 | Rev: A |



HOBBS DR

RAIL RESERVE BOUNDARY

WORKS HELD IN ABEYANCE PENDING CIVIL & HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT

PSHP BY CIVIL

RAIL RESERVE BOUNDARY

WUNGONG RD

WUNGONG RD

ADJOINS DWG 11-A-107-LA0034

ADJOINS DWG 11-A-107-LA0036

DETAILED DESIGN



MetCONX

| REFERENCES |
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| XR01GN_SURVEY_PCG2020 |

| SCALE |
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| DATUM |
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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 09 | |
| PTA Drawing No: 11-A-107-LA0035 | Rev: A |

| REV | DATE | ISSUED FOR | PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
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| A | 02.06.23 | ISSUED FOR | PTA REVIEW | | | | |

| AMENDMENT | DSN | DRN | CHK | APP |
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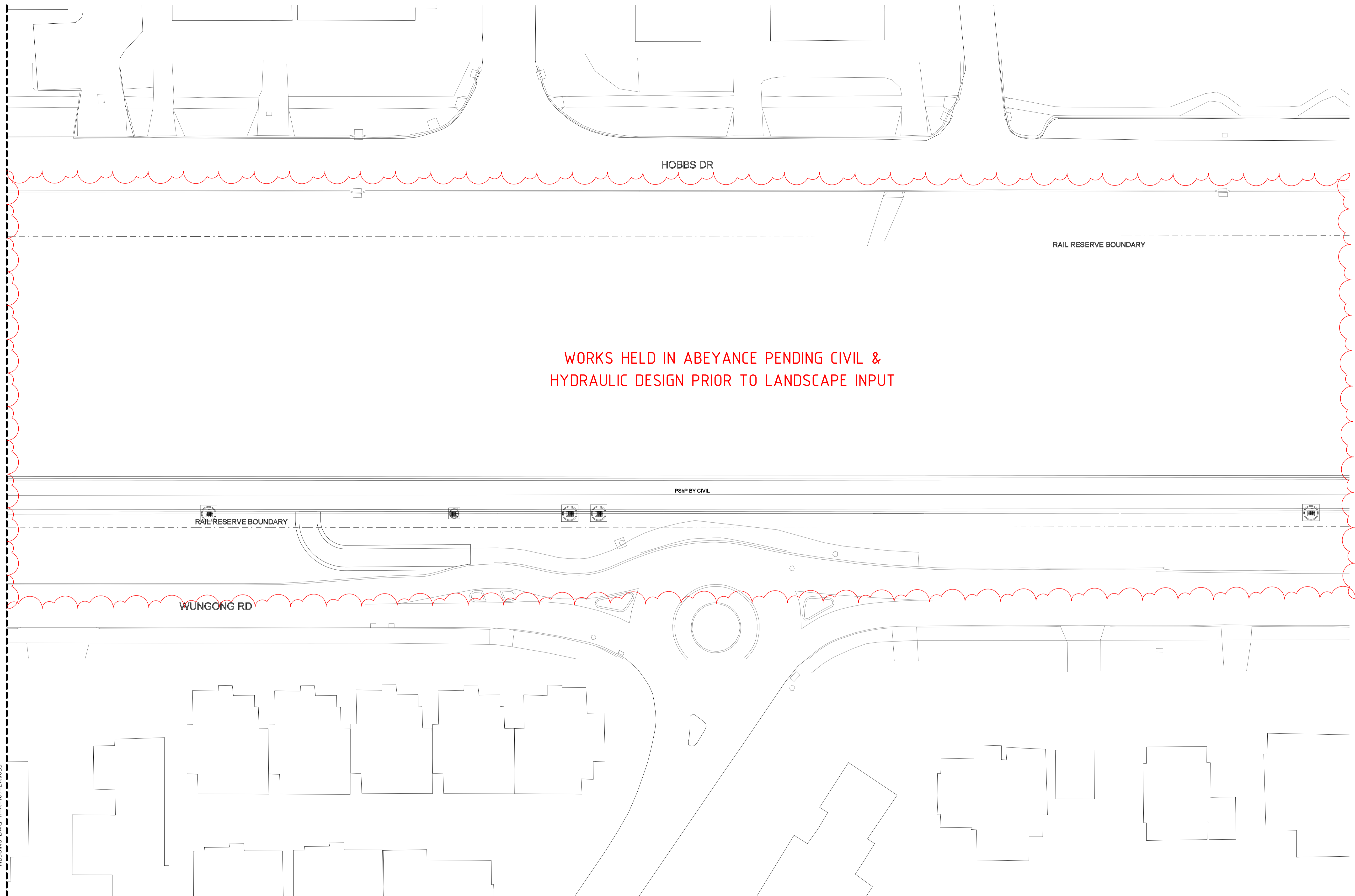
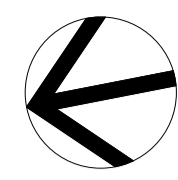
ORIG SIZE: A1

AT ORIGINAL PLOT SIZE

100mm scale bar: 0, 10, 20, 30, 40, 50

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Contractor No:R30-UDL-DWG-LA-230-00208 Rev: A



WORKS HELD IN ABEYANCE PENDING CIVIL &
HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT

ADJOINS DWG 11-A-107-LA0035

DETAILED DESIGN

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|-----------|----------|-----------------------------|------|---|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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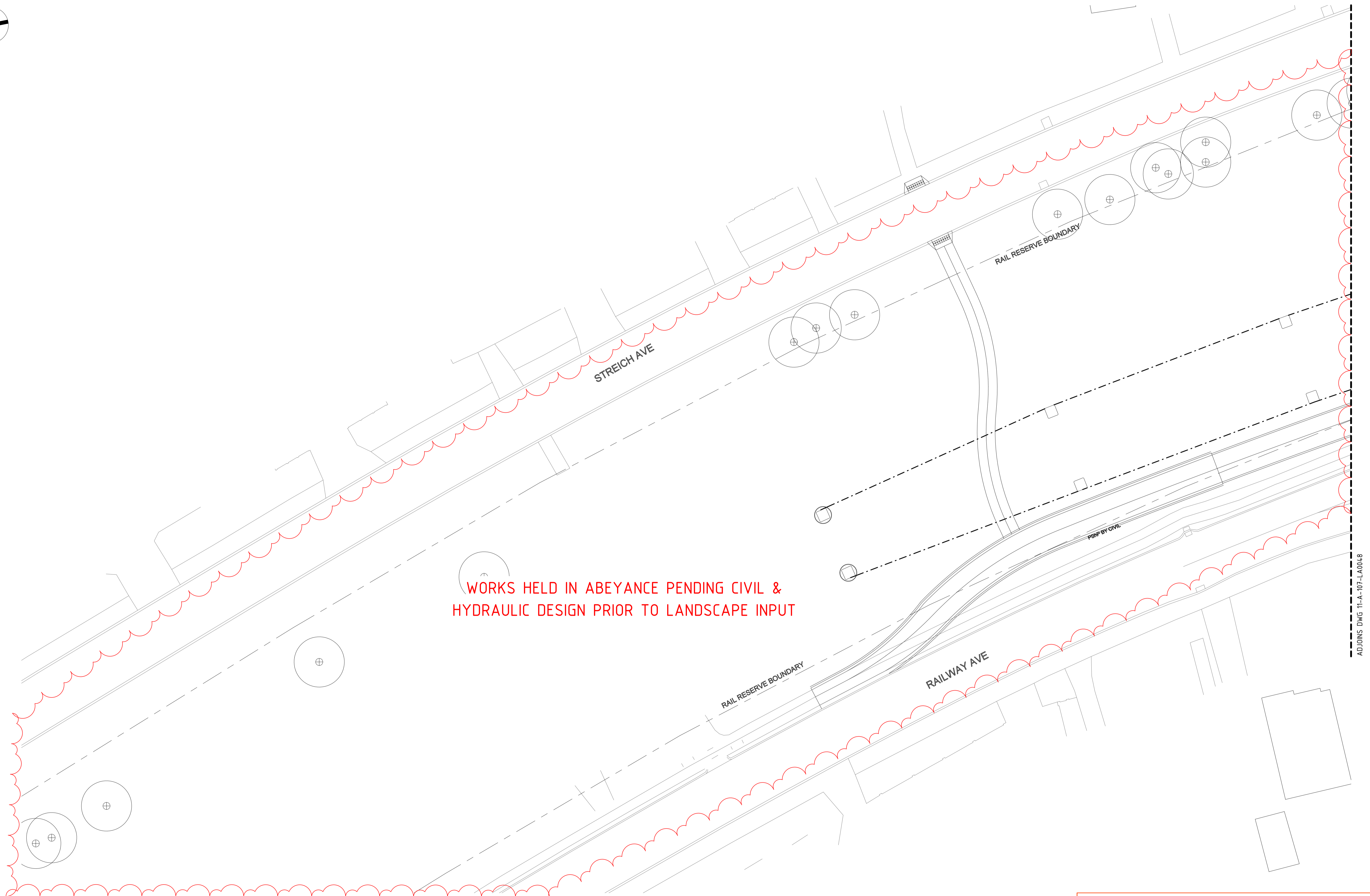
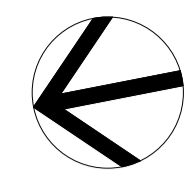


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| XR01GN_SURVEY_PCG2020 |

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| DATUM | |
| HORIZONTAL: | PCG2020 |
| VERTICAL: | AHD71 |

| | |
|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GRADING PLAN 10 | |
| PTA Drawing No: | 11-A-107-LA0036 |
| Rev: | A |



| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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| ORIG SIZE | 0 10 20 30 40 50 100mm | AT ORIGINAL PLOT SIZE |
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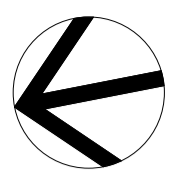


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| VERTICAL: AHD71 |

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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
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| DETAILED DESIGN | |
| | |
| BYFORD RAIL EXTENSION | |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GENERAL ARRANGEMENT & FINISHES PLAN 01 | |
| PTA Drawing No: 11-A-107-LA0047 | Rev: C |



STREICH AVE

WORKS HELD IN ABEYANCE PENDING PSP BRIDGE & CIVIL DESIGN OUTCOMES INCLUDING ARMADALE ROAD MODIFICATIONS

RAIL RESERVE BOUNDARY

RAIL RESERVE BOUNDARY

PSP BY CIVIL

ARMADALE RD

ARMADALE RD

RAILWAY AVE

ADJOINS DWG 11-A-107-LA0047

ADJOINS DWG 11-A-107-LA0049

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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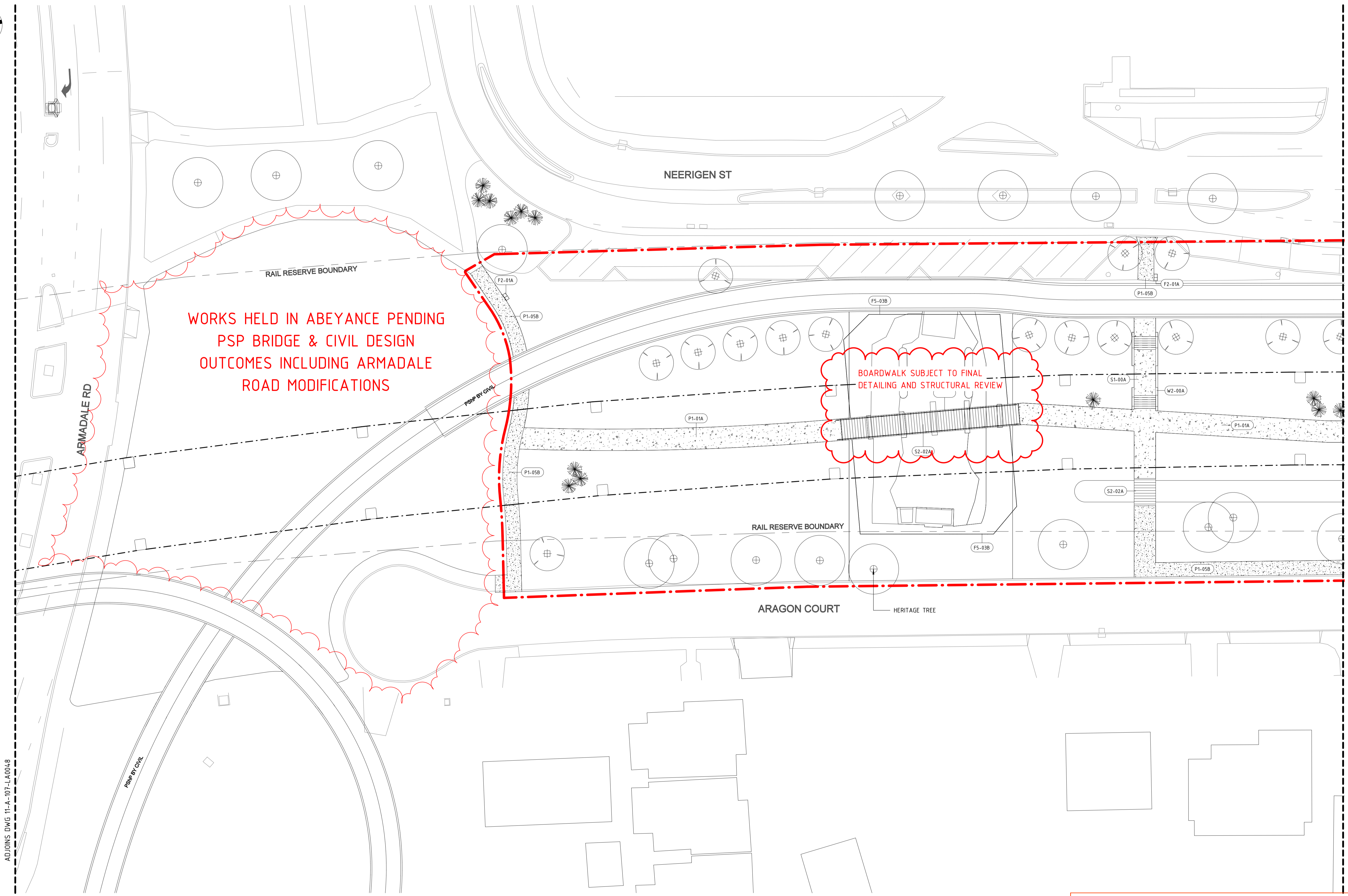
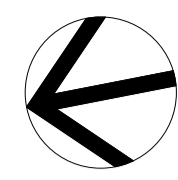


| REFERENCES |
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| VERTICAL: AHD71 |

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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GENERAL ARRANGEMENT & FINISHES PLAN 02 | |
| PTA Drawing No: 11-A-107-LA0048 | Rev: C |



ADJOINS DWG 11-A-107-LA0048

ADJOINS DWG 11-A-107-LA0050

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |



| REFERENCES |
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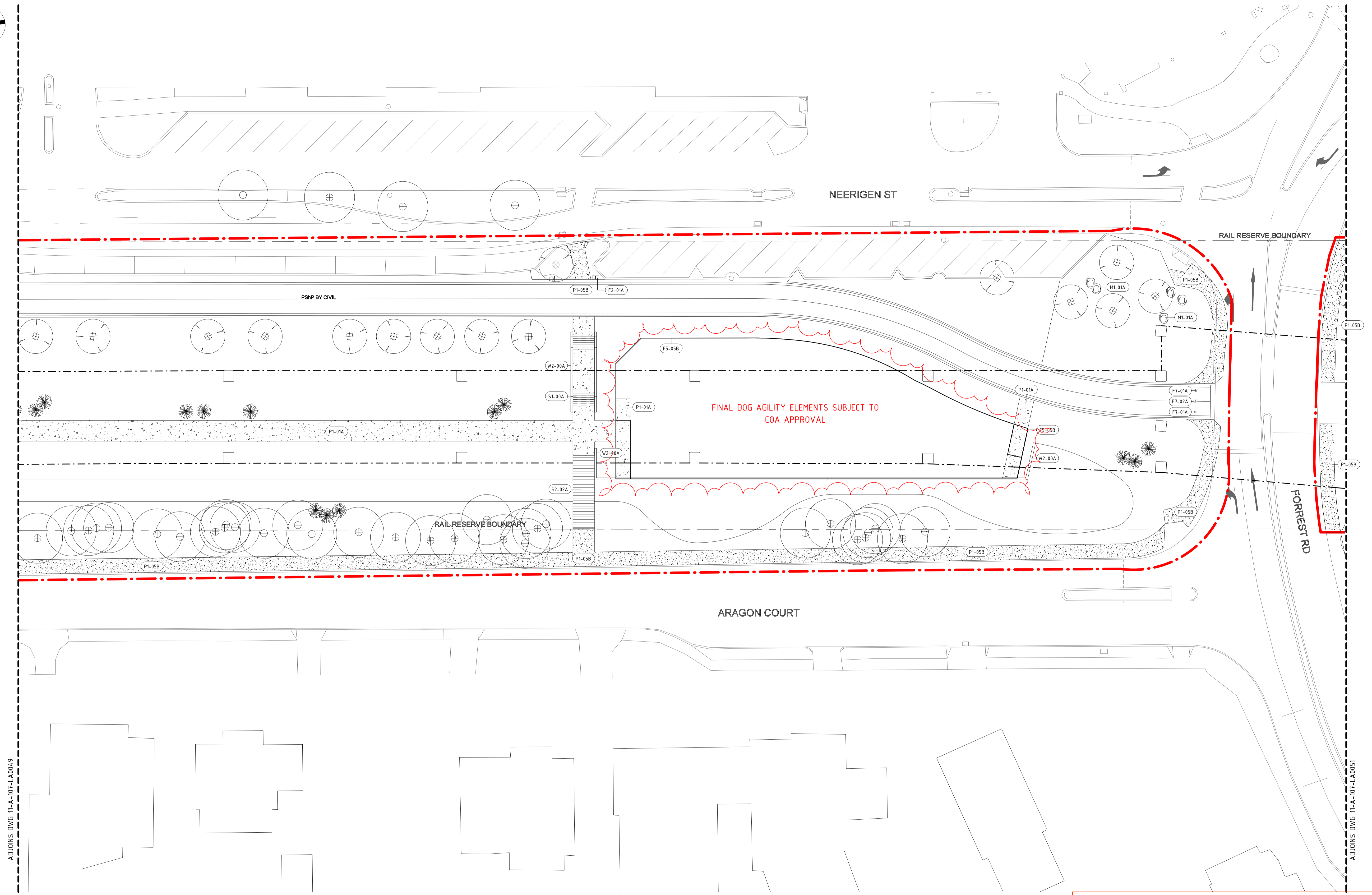
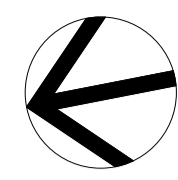
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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GENERAL ARRANGEMENT & FINISHES PLAN 03 | |
| PTA Drawing No: 11-A-107-LA0049 | Rev: C |

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Contractor No:R30-UDL-DWG-LA-230-00302 Rev: C



DETAILED DESIGN

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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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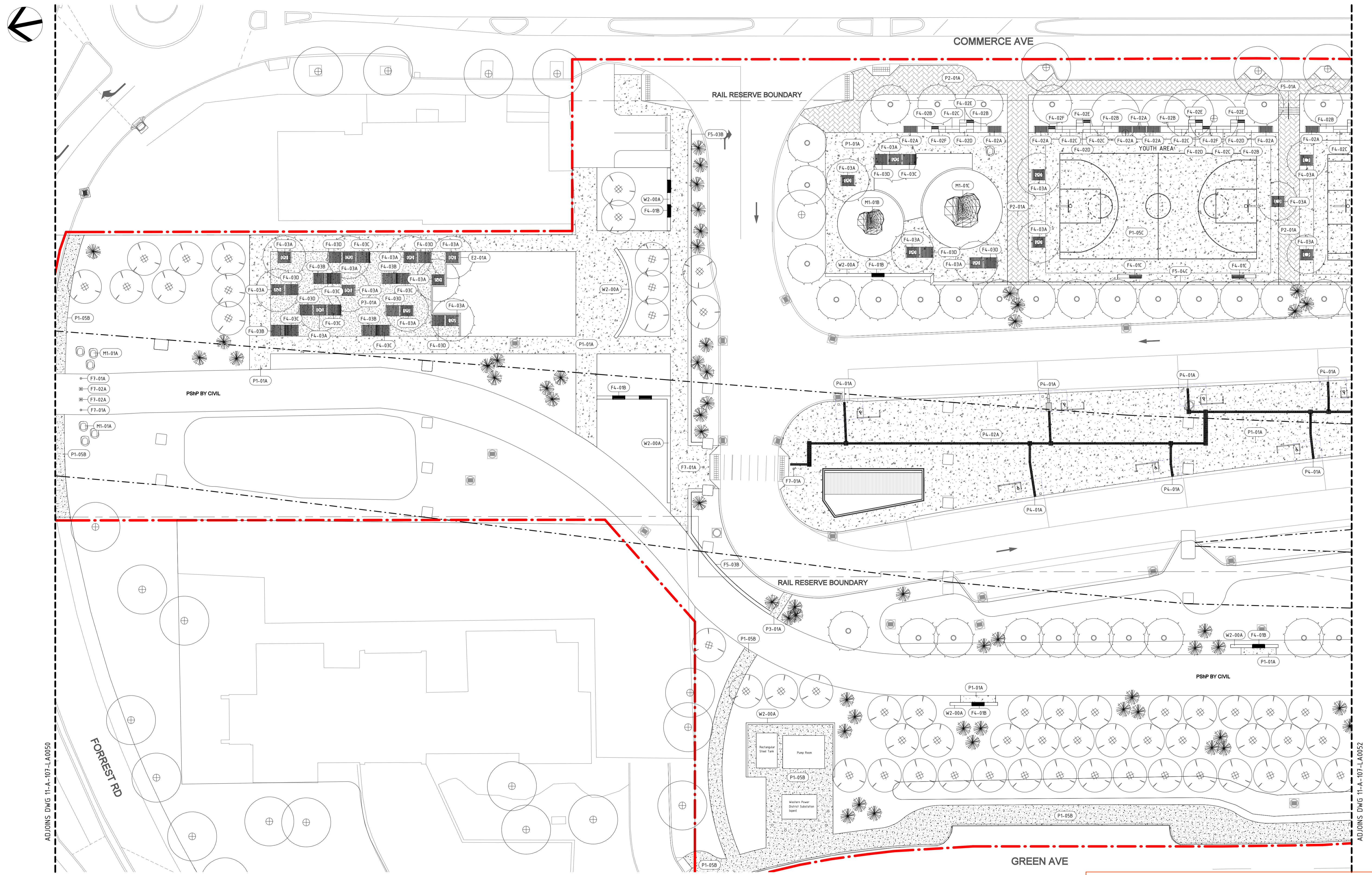


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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GENERAL ARRANGEMENT & FINISHES PLAN 04 | |
| PTA Drawing No: 11-A-107-LA0050 | Rev: C |



DETAILED DESIGN

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| DESIGNED | | D.Firns |  BYFORD RAIL EXTENSION |
| DRAWN | | Y.Demissie | |
| CHECKED | | M.Harris | ARMADALE STATION PRECINCT LANDSCAPE GENERAL ARRANGEMENT & FINISHES PLAN 05 PTA Drawing No: 11-A-107-LA0051 |
| APPROVED | | A.Eyres | |
| DATE | | 02/06/23 | |
| | | | Rev: C |

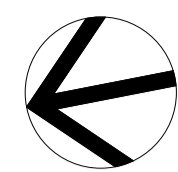
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

ORIG SIZE: **A1** AT ORIGINAL PLOT SIZE

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| DATUM | | HORIZONTAL: PCG2020 | |
| | | VERTICAL: AHD71 | |



COMMERCE AVE

RAIL RESERVE BOUNDARY

JUNIOR PLAYGROUND
SELECTION OF PLAY ELEMENTS
SUBJECT TO COA APPROVAL

ARMADALE STATION - REFER TO ARCHITECTURAL DRAWINGS

RAIL RESERVE BOUNDARY

BIKE SHELTER - REFER TO ARCHITECTURAL DOCUMENTATION

PSHP BY CIVIL

RAIL RESERVE BOUNDARY

GREEN AVE

ADJOINS DWG 11-A-107-LA0051

ADJOINS DWG 11-A-107-LA0053

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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| 100mm | | |

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Contractor No:R30-UJL-DWG-LA-230-00305 Rev: C

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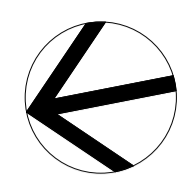
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| HORIZONTAL: PCG2020 |
| VERTICAL: AHD71 |

| DESIGNED | D.Firns |
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| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

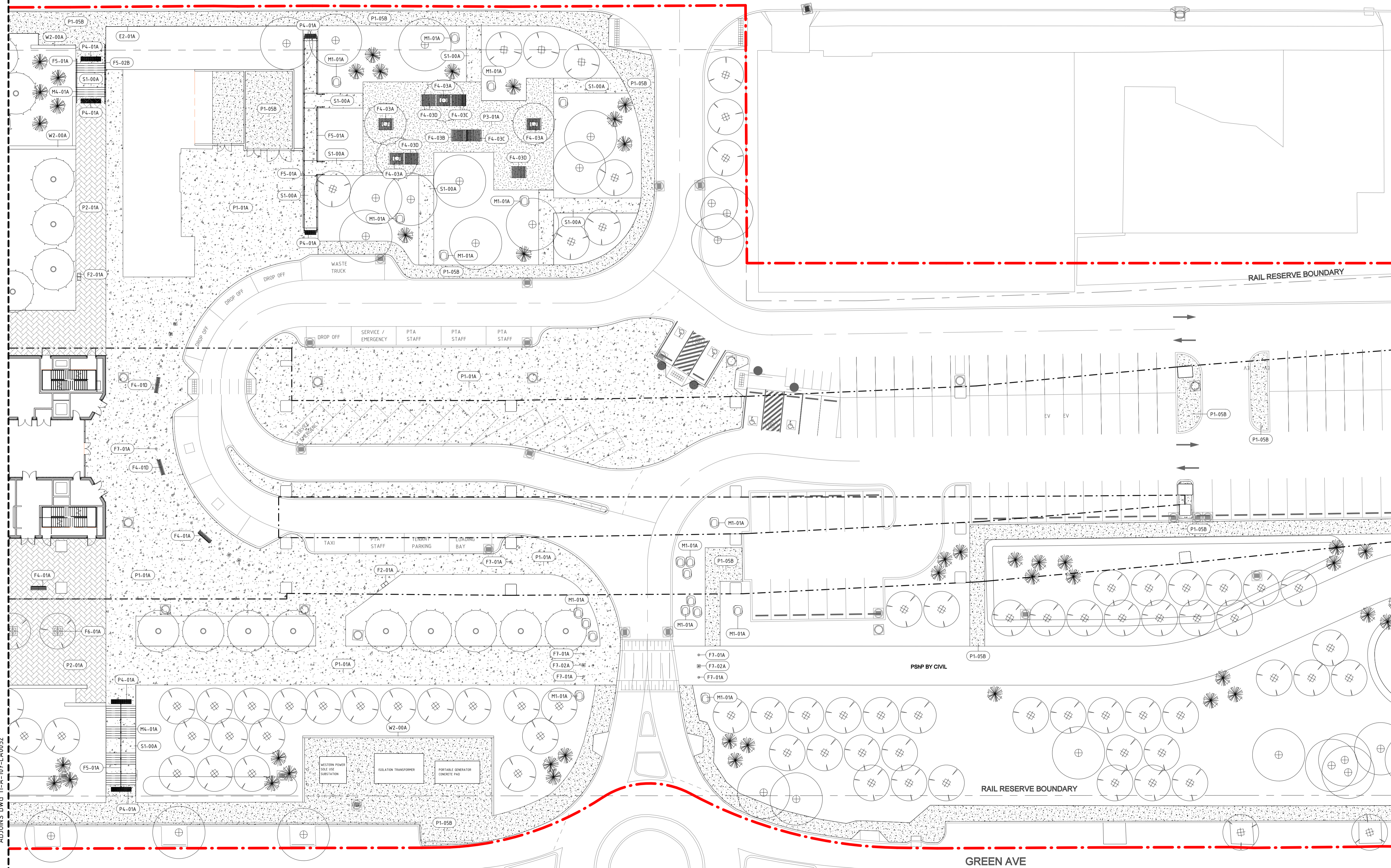
DETAILED DESIGN

BYFORD RAIL EXTENSION

ARMADALE STATION PRECINCT
LANDSCAPE
GENERAL ARRANGEMENT & FINISHES PLAN 06
 PTA Drawing No: 11-A-107-LA0052 Rev: C



COMMERCE AVE



ADJOINS DWG 11-A-107-LA0052

ADJOINS DWG 11-A-107-LA0054

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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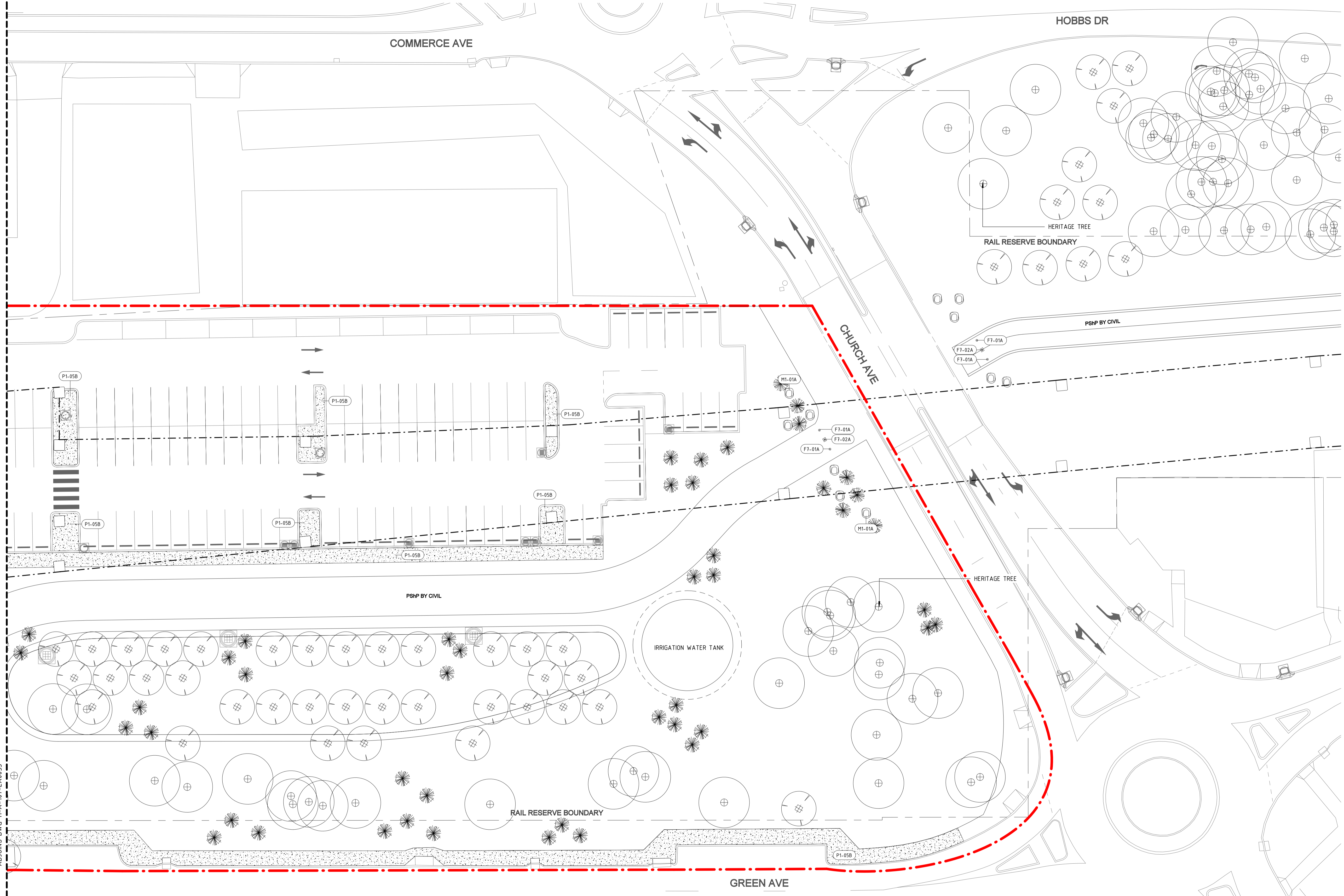
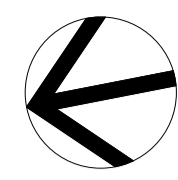
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| VERTICAL: AHD71 |

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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GENERAL ARRANGEMENT & FINISHES PLAN 07 | |
| PTA Drawing No: 11-A-107-LA0053 | Rev: C |



ADJOINS DWG 11-A-107-LA0053

ADJOINS DWG 11-A-107-LA0055

DETAILED DESIGN

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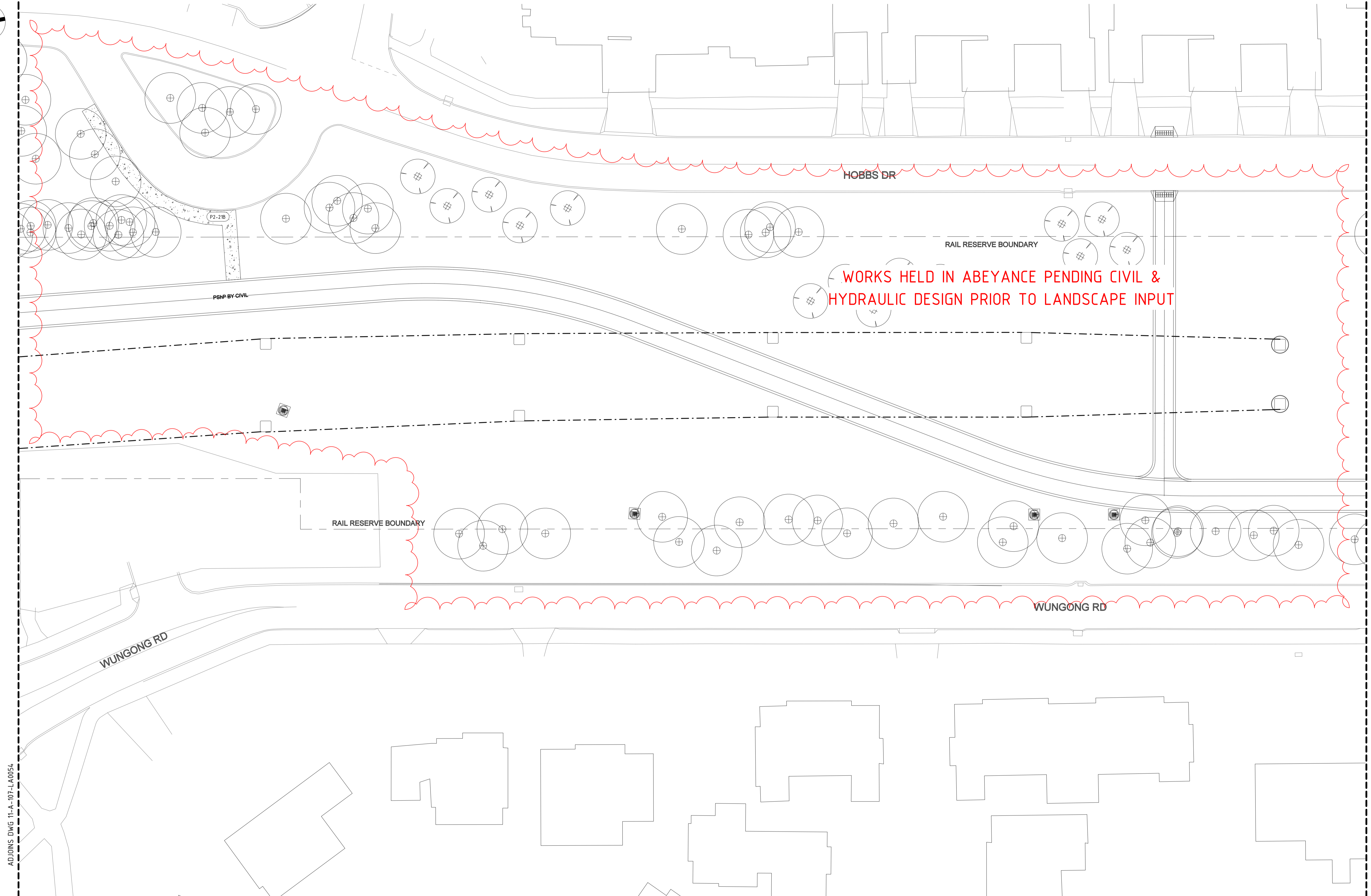
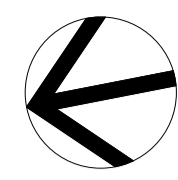


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GENERAL ARRANGEMENT & FINISHES PLAN 08 | |
| PTA Drawing No: | 11-A-107-LA0054 |
| Rev: | A |



ADJOINS DWG 11-A-107-LA0054

ADJOINS DWG 11-A-107-LA0056

DETAILED DESIGN

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| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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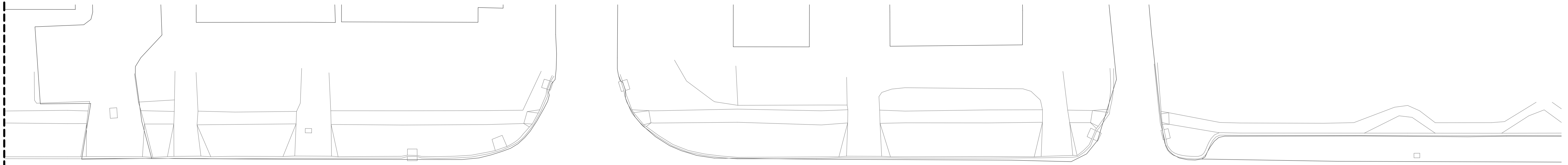
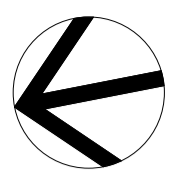


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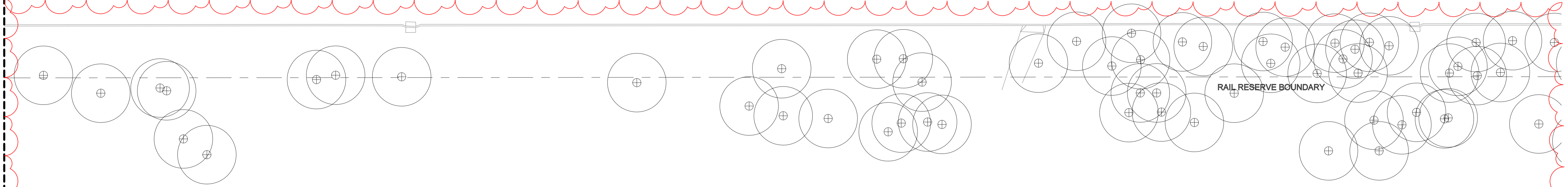
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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
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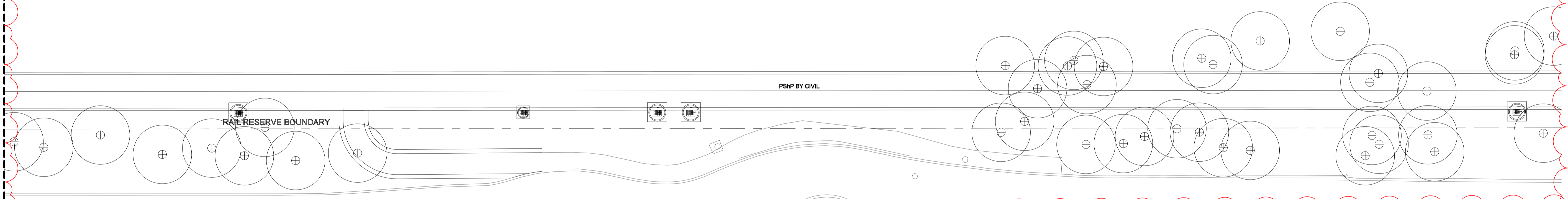


HOBBS DR



WORKS HELD IN ABEYANCE PENDING CIVIL & HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT

PSHP BY CIVIL



WUNGONG RD



ADJOINS DWG 11-A-107-LA0055

DETAILED DESIGN

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| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
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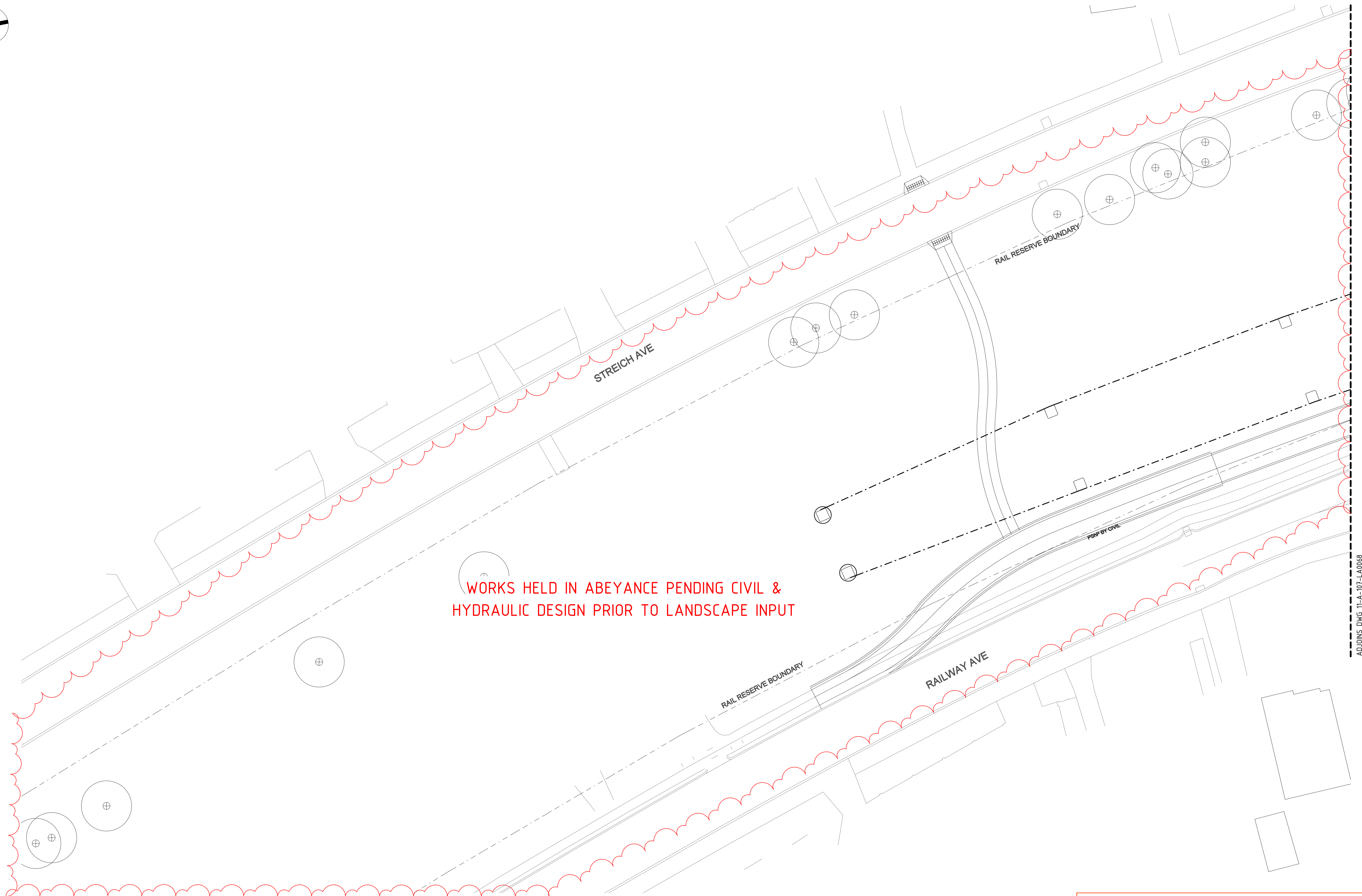
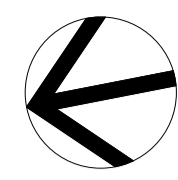


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| VERTICAL: | AHD71 |

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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| GENERAL ARRANGEMENT & FINISHES PLAN 10 | |
| PTA Drawing No: 11-A-107-LA0056 | Rev: A |



ADD/ONS DWG 11-A-107-LA0068

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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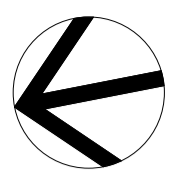


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| DETAILED DESIGN | |
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PLANTING PLAN 01 | |
| PTA Drawing No: 11-A-107-LA0067 | Rev: C |



STREICH AVE

WORKS HELD IN ABEYANCE PENDING PSP BRIDGE & CIVIL DESIGN OUTCOMES INCLUDING ARMADALE ROAD MODIFICATIONS

RAIL RESERVE BOUNDARY

RAIL RESERVE BOUNDARY

PSP BY CIVIL

ARMADALE RD

ARMADALE RD

RAILWAY AVE

ADJOINS DWG 11-A-107-LA0067

ADJOINS DWG 11-A-107-LA0069

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

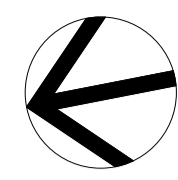


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PLANTING PLAN 02 | |
| PTA Drawing No: 11-A-107-LA0068 | Rev: C |



ADJOINS DWG 11-A-107-LA0068

ADJOINS DWG 11-A-107-LA0070

ARMADALE RD

NEERIGEN ST

ARAGON COURT

WORKS HELD IN ABEYANCE PENDING
PSP BRIDGE & CIVIL DESIGN
OUTCOMES INCLUDING ARMADALE
ROAD MODIFICATIONS

RAIL RESERVE BOUNDARY

RAIL RESERVE BOUNDARY

T7-01

T5-04

T5-04

G2-00B

G8-00A

G8-00A

T5-29

T5-29

T5-29

T5-29

G2-00E

G2-00E

G2-00E

G2-00E

G2-00B

G2-00B

G2-00B

T7-01

T7-01

TURF

TURF

T7-01

G2-00B

G2-00B

G2-00B

G2-00B

T5-09

G2-00B

G2-00B

G2-00B

G2-00B

G2-00B

G8-00A

G8-00A

HERITAGE TREE

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

| ORIG SIZE | AT ORIGINAL PLOT SIZE |
|-----------|-----------------------|
| A1 | |

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Contractor No:R30-UDL-DWG-LA-230-00402 Rev: C

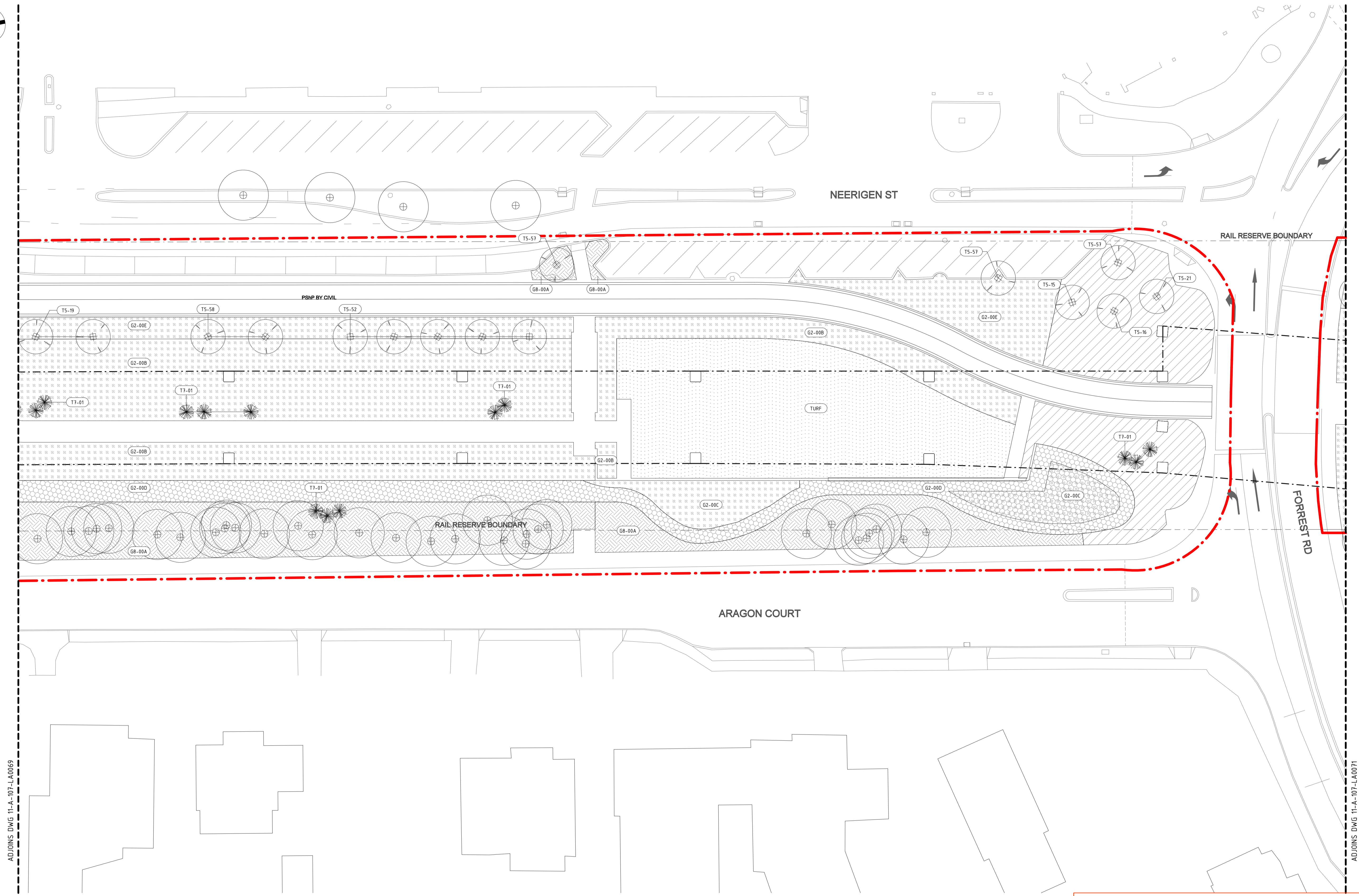
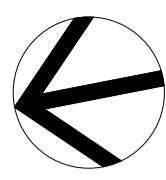
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| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

| DATUM | HORIZONTAL: | VERTICAL: |
|-------|-------------|-----------|
| | PCG2020 | AHD71 |

DETAILED DESIGN

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
PLANTING PLAN 03
 PTA Drawing No: 11-A-107-LA0069

Rev: C



ADJOINS DWG 11-A-107-LA0069

ADJOINS DWG 11-A-107-LA0071

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

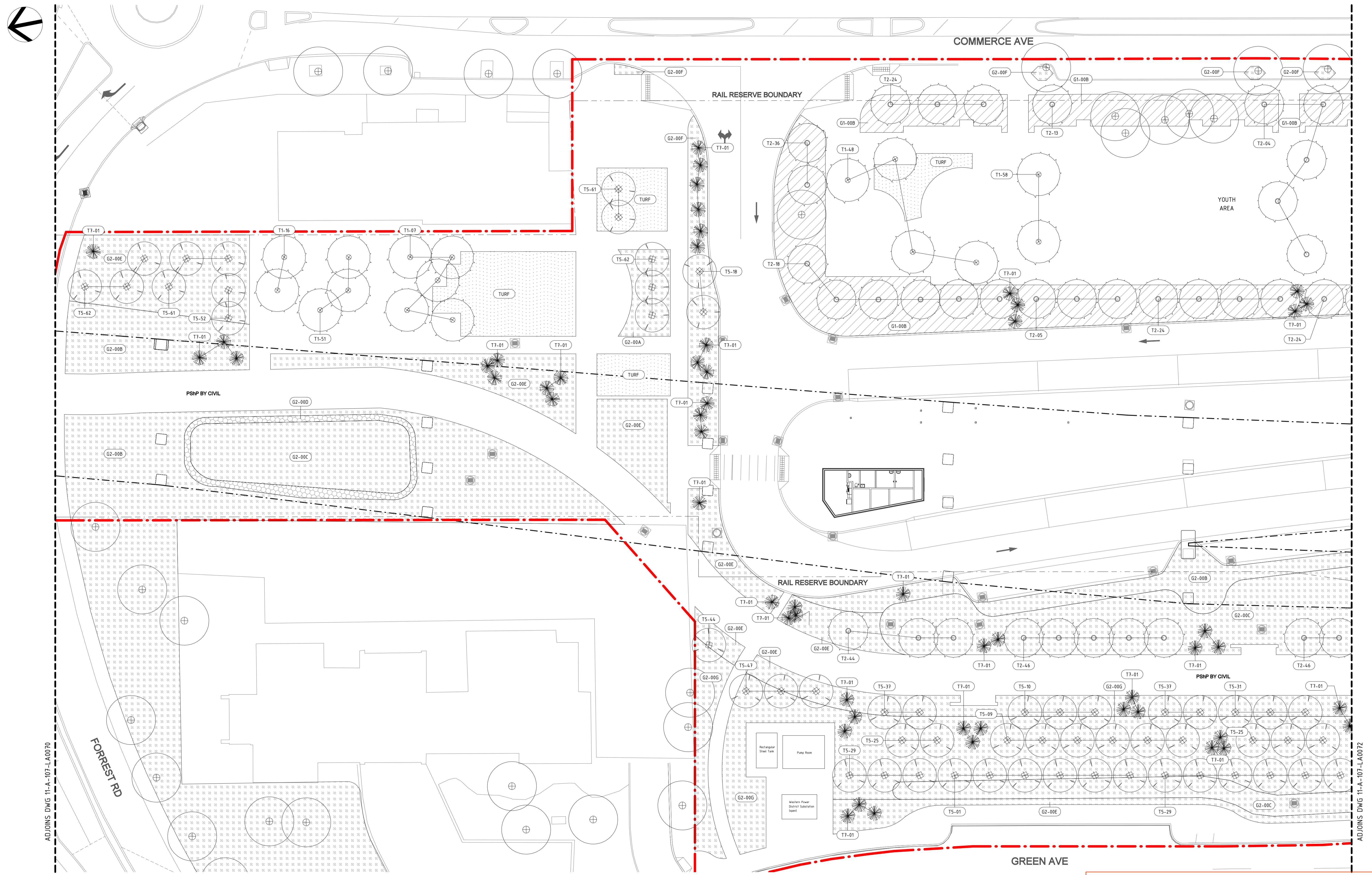
ORIG SIZE **A1** AT ORIGINAL PLOT SIZE

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| REFERENCES | SCALE | DESIGNED |
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| XR01GN_SURVEY_PCG2020 | 1 : 250 | D.Firns |
| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

| Government of Western Australia Public Transport Authority | | BYFORD RAIL EXTENSION |
|---|-----------------|-----------------------|
| ARMADALE STATION PRECINCT | | |
| LANDSCAPE | | |
| PLANTING PLAN 04 | | |
| PTA Drawing No: | 11-A-107-LA0070 | Rev: C |



DETAILED DESIGN


| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

| ORIG SIZE | AT ORIGINAL PLOT SIZE |
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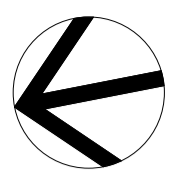
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| REFERENCES | SCALE | DESIGNED |
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| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |


BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
PLANTING PLAN 05
 PTA Drawing No: 11-A-107-LA0071

Rev: C



COMMERCE AVE

RAIL RESERVE BOUNDARY

RELOCATED JACARANDA

TURF

RAIL RESERVE BOUNDARY

TURF

ARMADALE STATION - REFER TO ARCHITECTURAL DRAWINGS

FIRE CABINET

BIKE SHELTER

RAIL RESERVE BOUNDARY

PSHP BY CIVIL

RAIL RESERVE BOUNDARY

GREEN AVE

ADJOINS DWG 11-A-107-LA0071

ADJOINS DWG 11-A-107-LA0073

| | | | | | | |
|-----|----------|-----------------------------|------|------|------|------|
| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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| A1 | AT ORIGINAL PLOT SIZE | | | | | | |

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Contractor No:R30-UJL-DWG-LA-230-00405 Rev: C

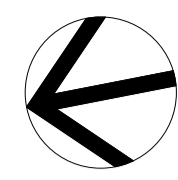
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| DATUM | HORIZONTAL: PCG2020 |
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| | |
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| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

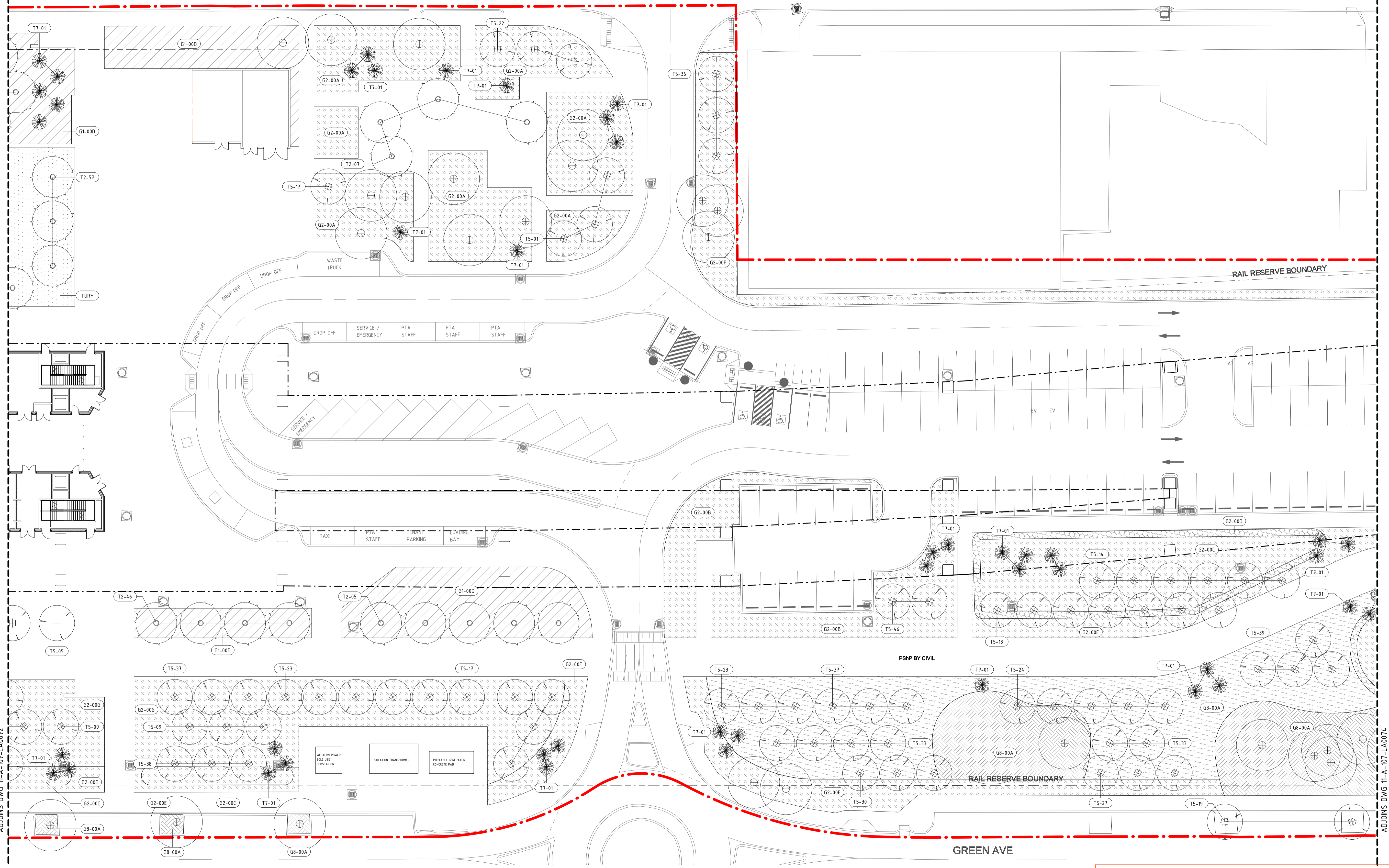
DETAILED DESIGN

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
PLANTING PLAN 06
 PTA Drawing No: 11-A-107-LA0072

Rev: C



COMMERCE AVE



ADJOINS DWG 11-A-107-LA0072

ADJOINS DWG 11-A-107-LA0074

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

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| ORIG SIZE | 0 10 20 30 40 50 100mm |
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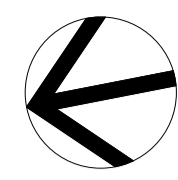


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PLANTING PLAN 07 | |
| PTA Drawing No: 11-A-107-LA0073 | Rev: C |



ADJOINS DWG 11-A-107-LA0073

ADJOINS DWG 11-A-107-LA0075

DETAILED DESIGN

| REV | DATE | ISSUED FOR IDD - PTA REVIEW | AMENDMENT | DSN | DRN | CHK | APP |
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| A | 02.06.23 | | | | | | |

D.F. Y.D. M.H. A.E.
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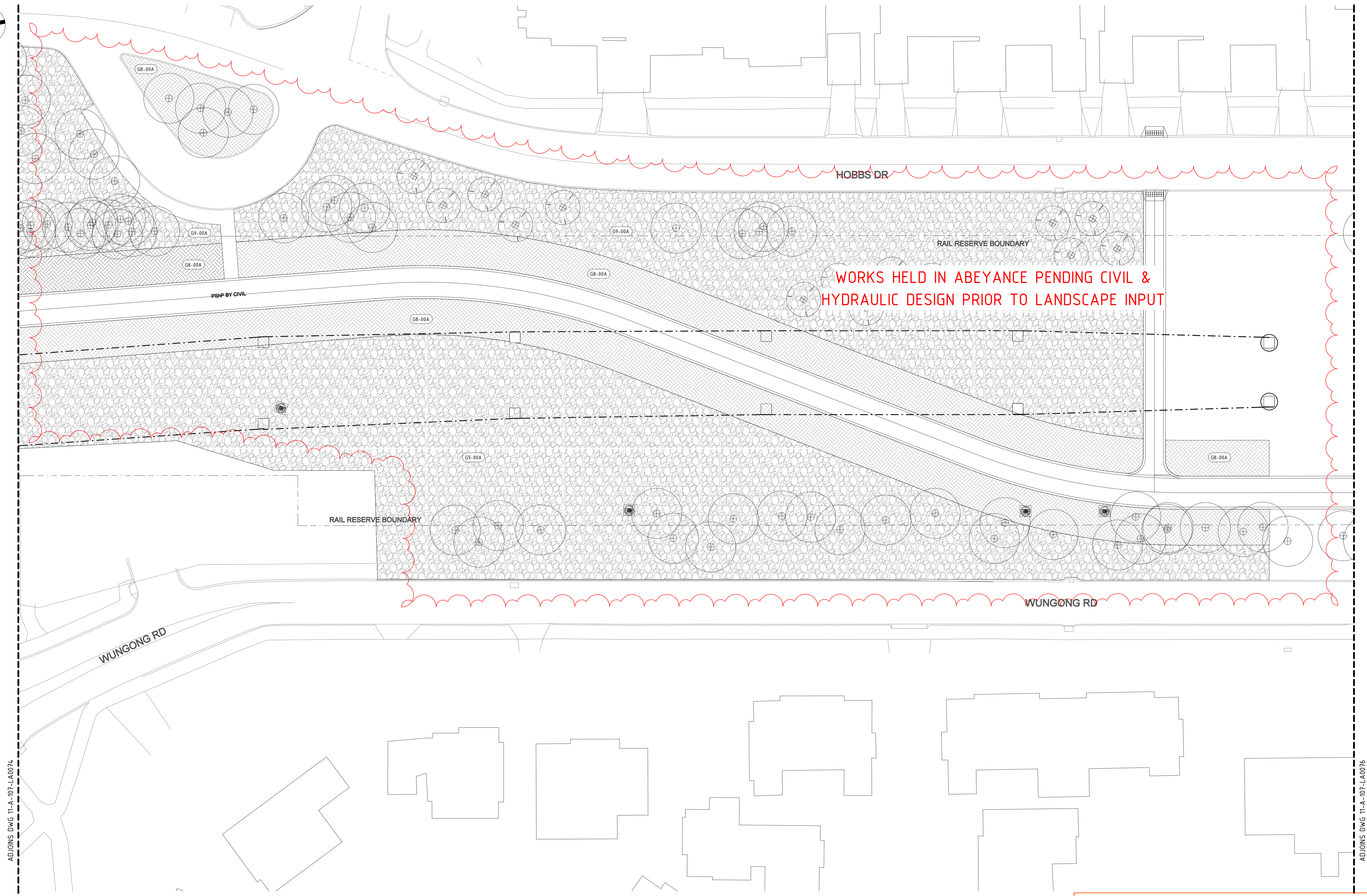
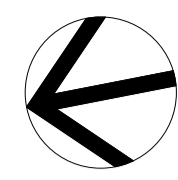
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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PLANTING PLAN 08 | |
| PTA Drawing No: 11-A-107-LA0074 | Rev: A |



ADJOINS DWG 11-A-107-LA0074

ADJOINS DWG 11-A-107-LA0076

DETAILED DESIGN

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| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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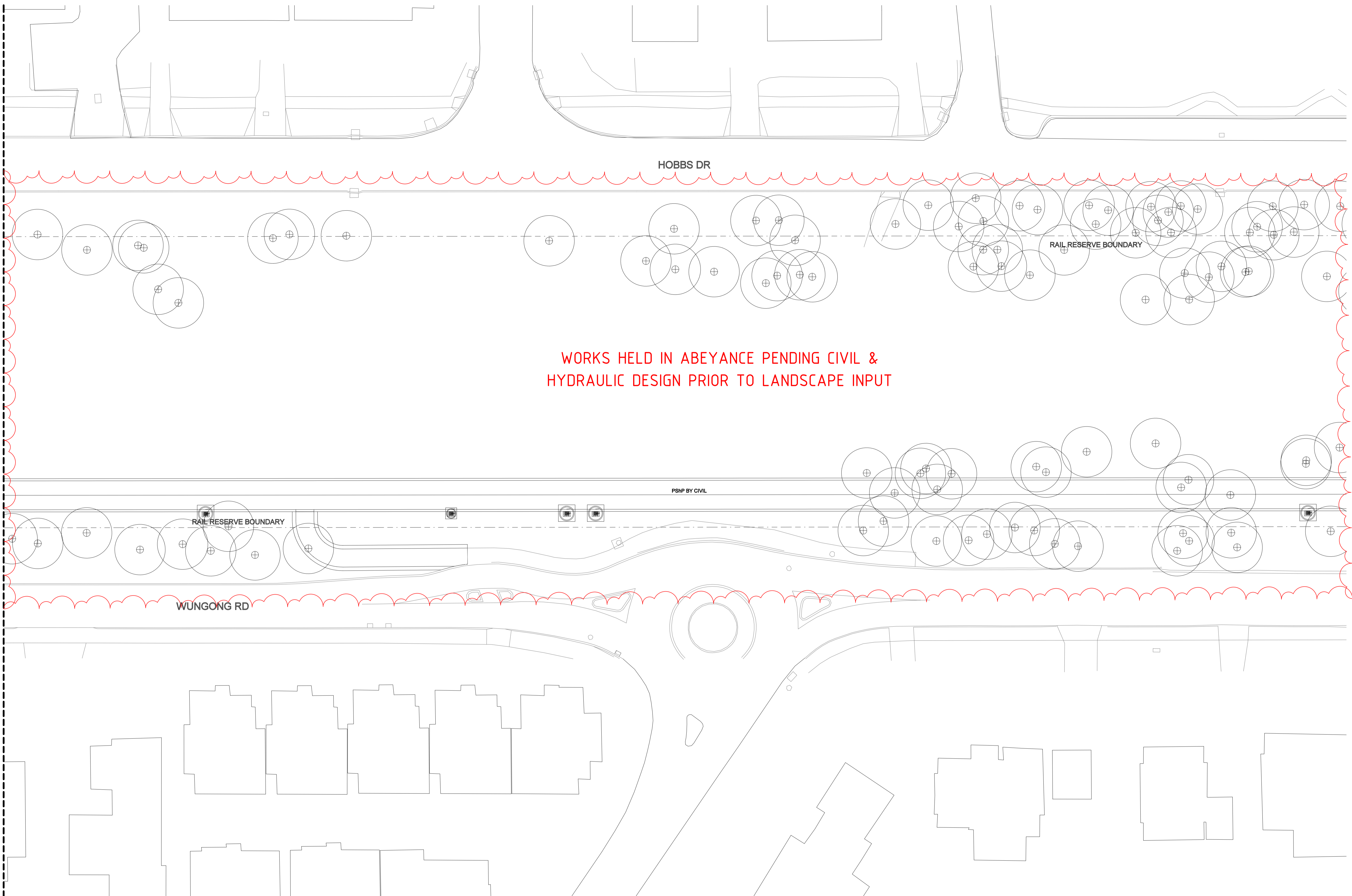
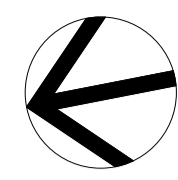


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| VERTICAL: AHD71 | |

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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|----------------------------------|------------------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PLANTING PLAN 09 | |
| PTA Drawing No: 11-A-107-LA0075 | Rev: A |



WORKS HELD IN ABEYANCE PENDING CIVIL &
HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT

ADJOINS DWG 11-A-107-LA0075

DETAILED DESIGN

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|-----------|----------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02/06/23 | AMENDMENT | DSN | DRN | CHK | APP |
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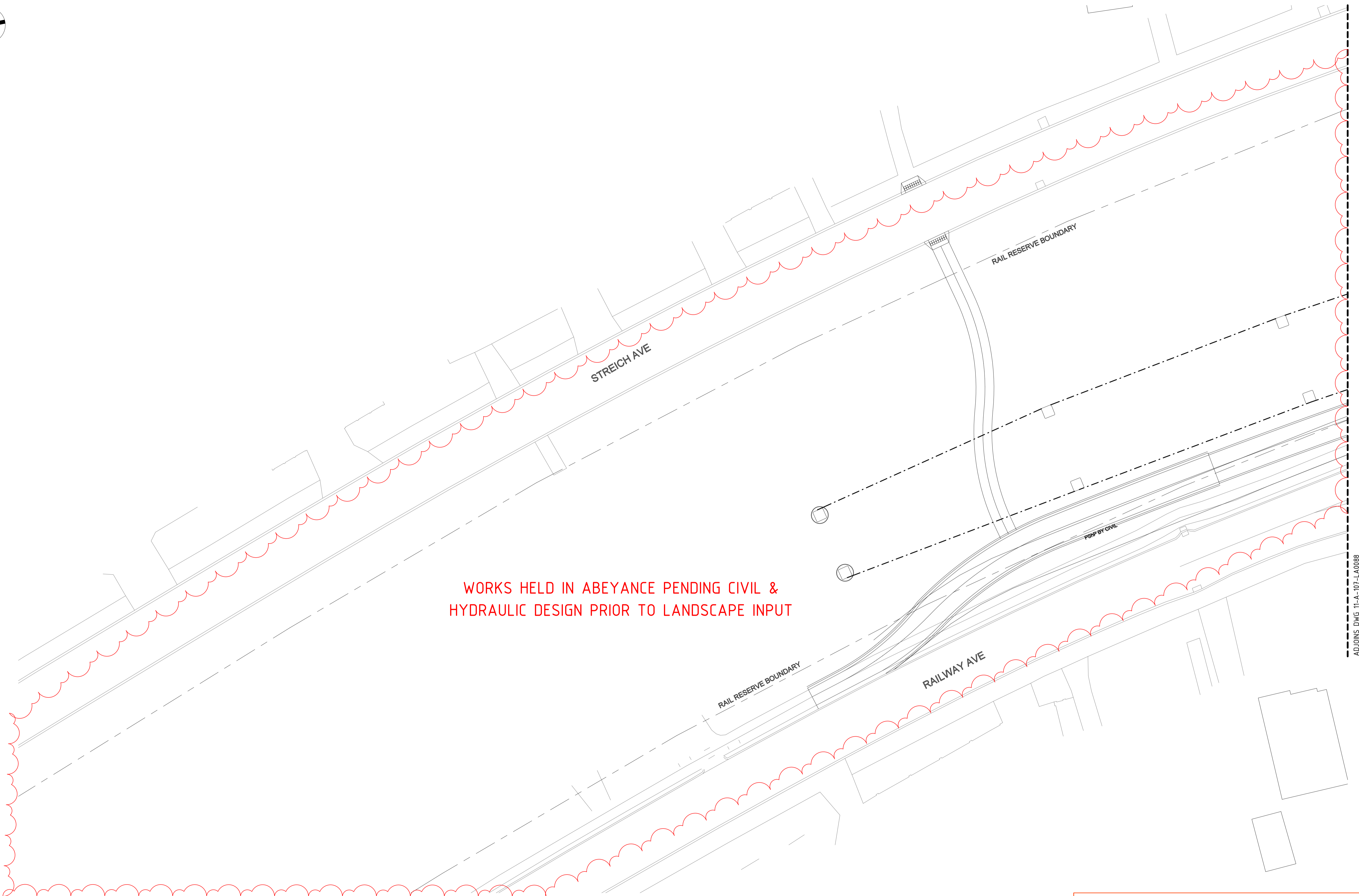
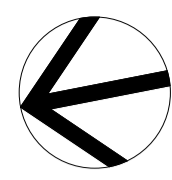


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| REFERENCES |
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| HORIZONTAL: | PCG2020 |
| VERTICAL: | AHD71 |

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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PLANTING PLAN 10 | |
| PTA Drawing No: 11-A-107-LA0076 | Rev: A |



WORKS HELD IN ABEYANCE PENDING CIVIL & HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| A | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | | | | |

ORIG SIZE: 0 10 20 30 40 50 100mm
 AT ORIGINAL PLOT SIZE

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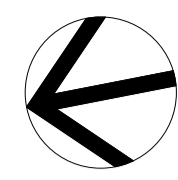


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 01 | |
| PTA Drawing No: 11-A-107-LA0087 | Rev: A |



STREICH AVE

WORKS HELD IN ABEYANCE PENDING PSP BRIDGE & CIVIL DESIGN OUTCOMES INCLUDING ARMADALE ROAD MODIFICATIONS

RAIL RESERVE BOUNDARY

RAIL RESERVE BOUNDARY

PSP BY CIVIL

ARMADALE RD

ARMADALE RD

RAILWAY AVE

ADJOINS DWG 11-A-107-LA0087

ADJOINS DWG 11-A-107-LA0089

DETAILED DESIGN

| | | | | | | |
|-----------|----------|-----------------------------|-----------------------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | | | | | |
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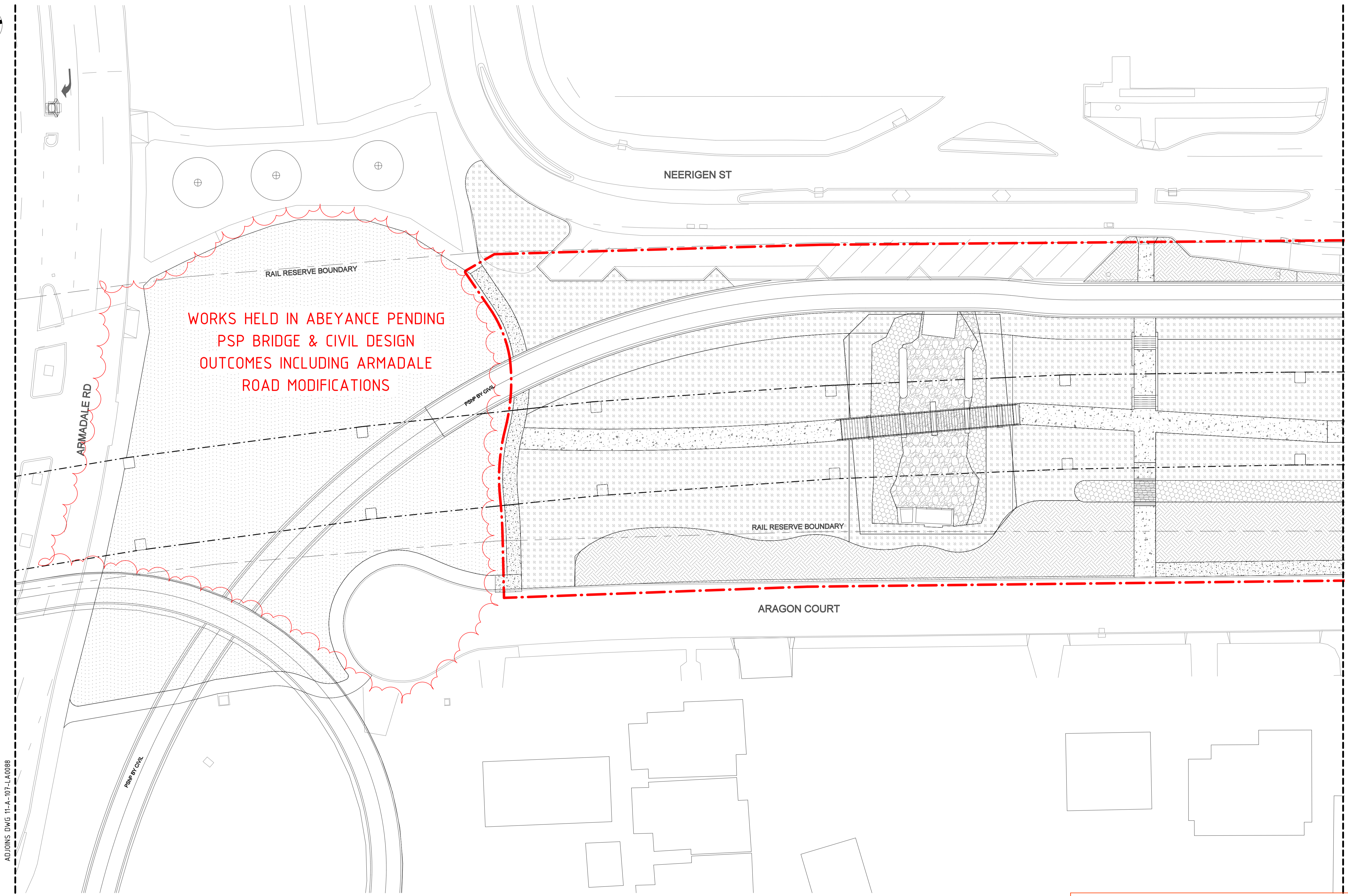
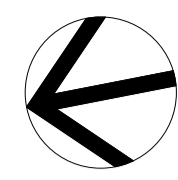


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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 02 | |
| PTA Drawing No: 11-A-107-LA0088 | Rev: A |



ADJOINS DWG 11-A-107-LA0088

ADJOINS DWG 11-A-107-LA0090

DETAILED DESIGN

| REV | DATE | ISSUED FOR | PTA REVIEW | AMENDMENT | D.F. | Y.D. | M.H. | A.E. |
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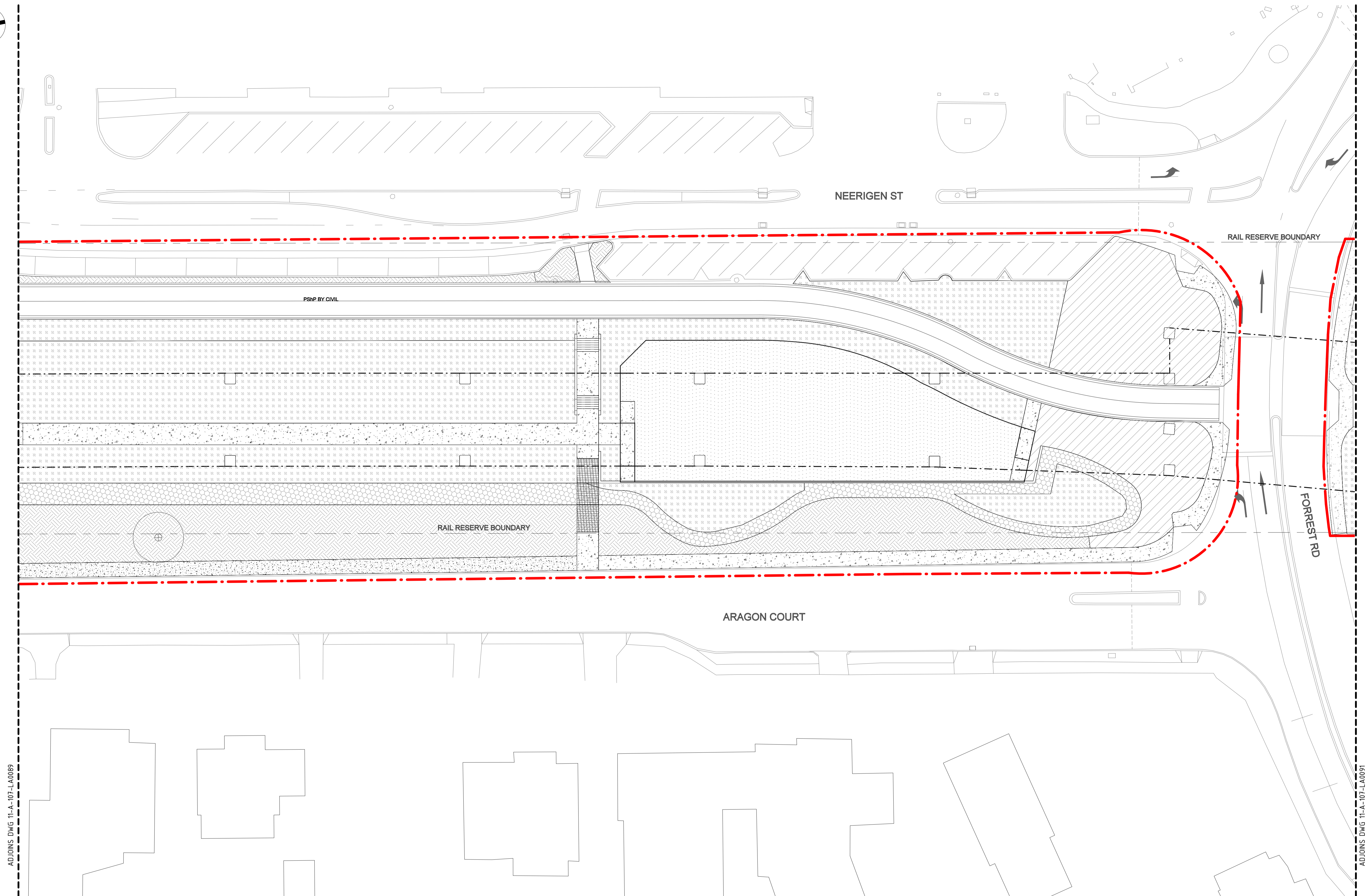
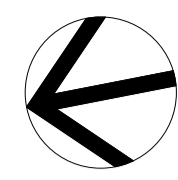


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| | |
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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 03 | |
| PTA Drawing No: 11-A-107-LA0089 | Rev: A |



ADJOINS DWG 11-A-107-LA0089

ADJOINS DWG 11-A-107-LA0091

DETAILED DESIGN

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|-----------|------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
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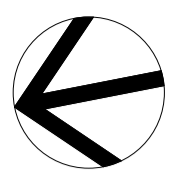


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| VERTICAL: AHD71 | |

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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION ARMADALE STATION PRECINCT LANDSCAPE PTA ASSET PLAN 04 PTA Drawing No: 11-A-107-LA0090 |
| | Rev: A |



COMMERCE AVE

RAIL RESERVE BOUNDARY

YOUTH AREA

PSHP BY CIVIL

RAIL RESERVE BOUNDARY

PSHP BY CIVIL

ADJOINS DWG 11-A-107-LA0090

FORREST RD

ADJOINS DWG 11-A-107-LA0092

GREEN AVE

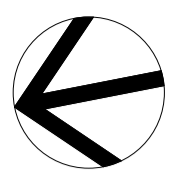
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| A | 02.06.23 | | | | | |
| AMENDMENT | DSN | DRN | CHK | APP | | |
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| | HORIZONTAL: PCG2020 | Y.Demissie |
| | VERTICAL: AHD71 | CHECKED |
| | | M.Harris |
| | | APPROVED |
| | | A.Eyres |
| | | DATE |
| | | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 05 | |
| PTA Drawing No: 11-A-107-LA0091 | Rev: A |



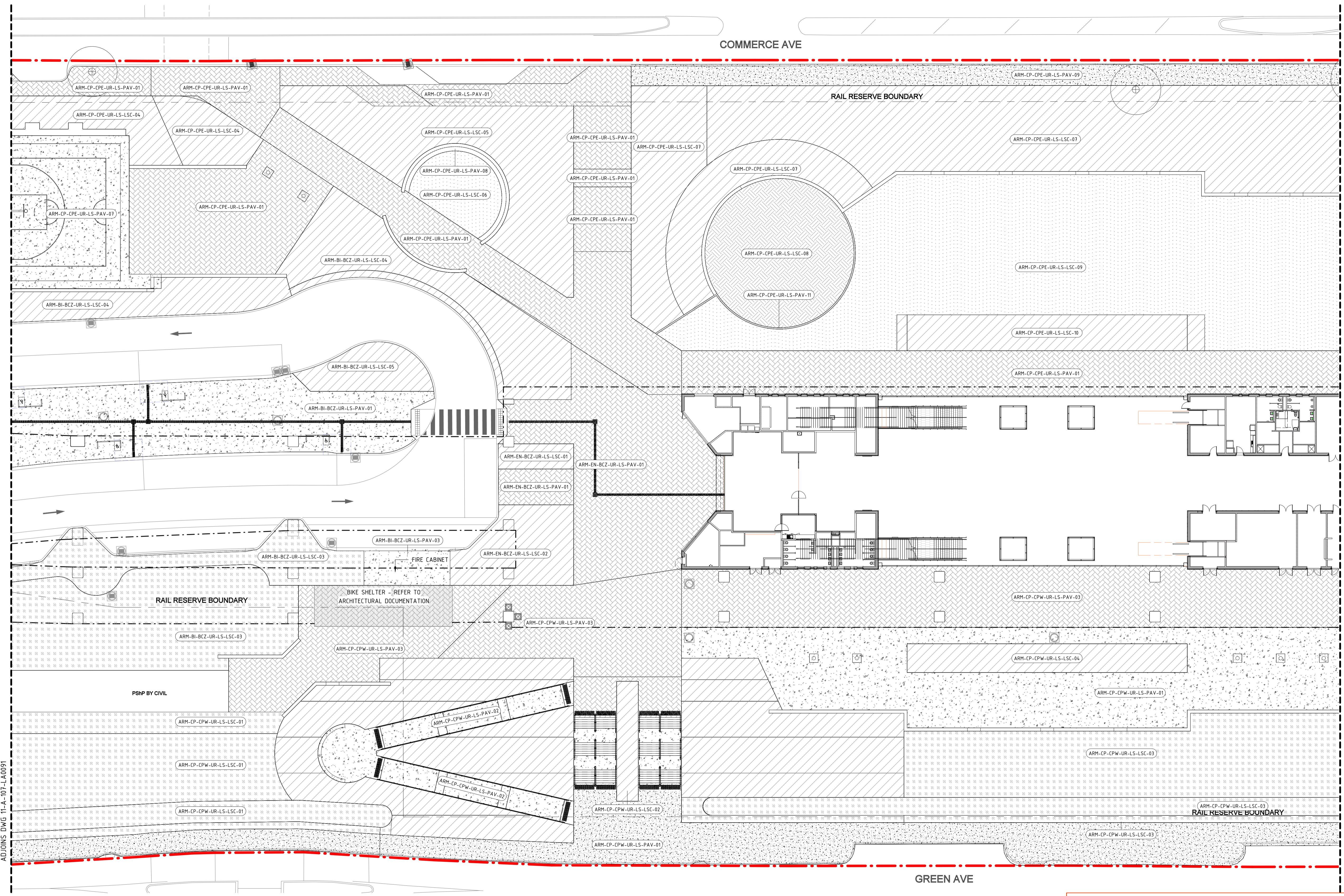
COMMERCE AVE

RAIL RESERVE BOUNDARY

GREEN AVE

ADJOINS DWG 11-A-107-LA0091

ADJOINS DWG 11-A-107-LA0093



DETAILED DESIGN



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|-----------|-----------------------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | | | | | |
| ORIG SIZE | AMENDMENT | | DSN | DRN | CHK | APP |
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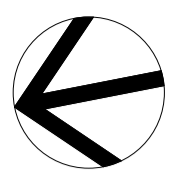
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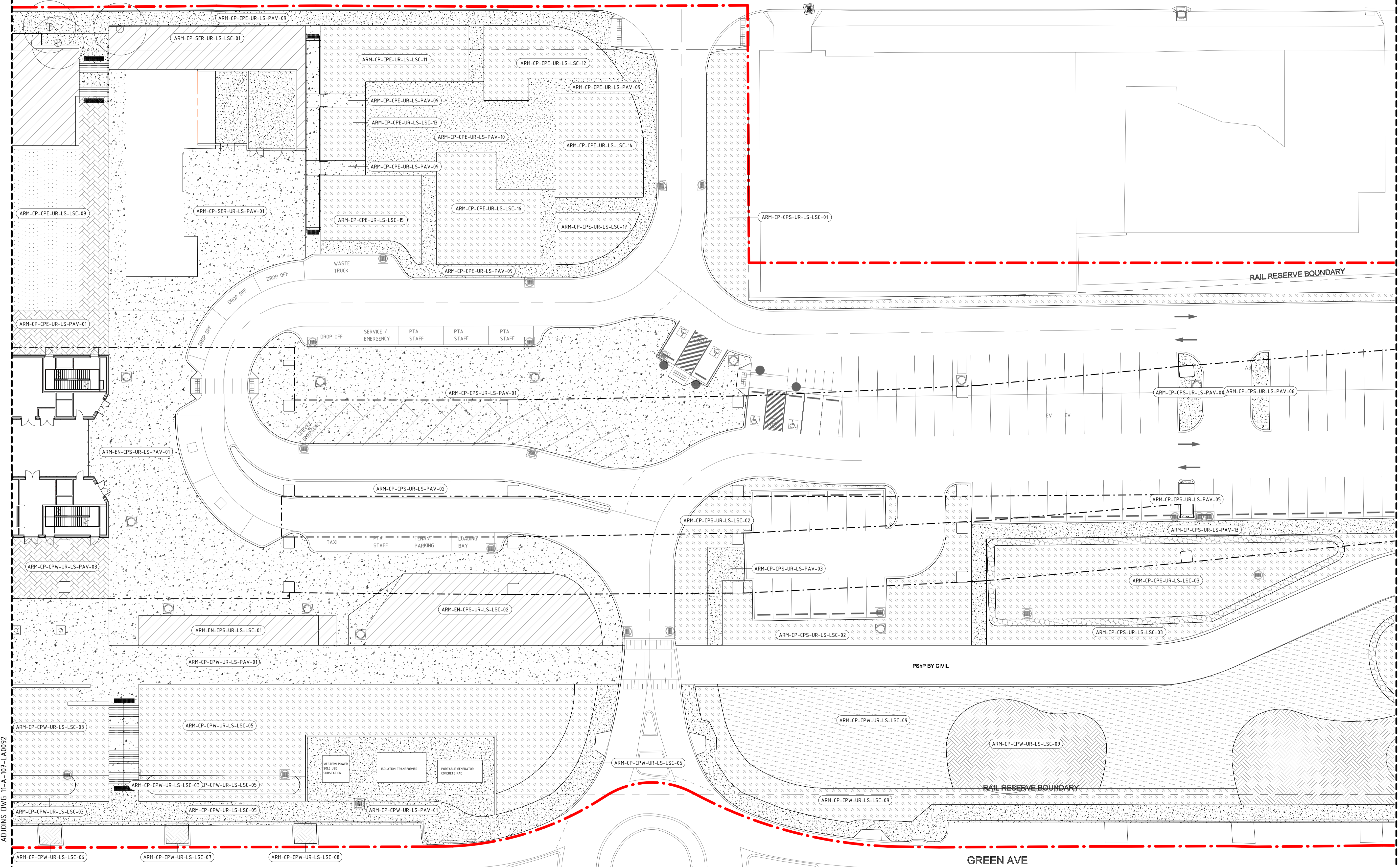
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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 06 | |
| PTA Drawing No: | 11-A-107-LA0092 |
| Rev: | A |



COMMERCE AVE



ADJOINS DWG 11-A-107-LA0092

ADJOINS DWG 11-A-107-LA0094

DETAILED DESIGN

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| A | 02.06.23 | | | | | |
| ORIG SIZE | AMENDMENT | | DSN | DRN | CHK | APP |
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| REFERENCES |
| XR01GN_SURVEY_PCG2020 |

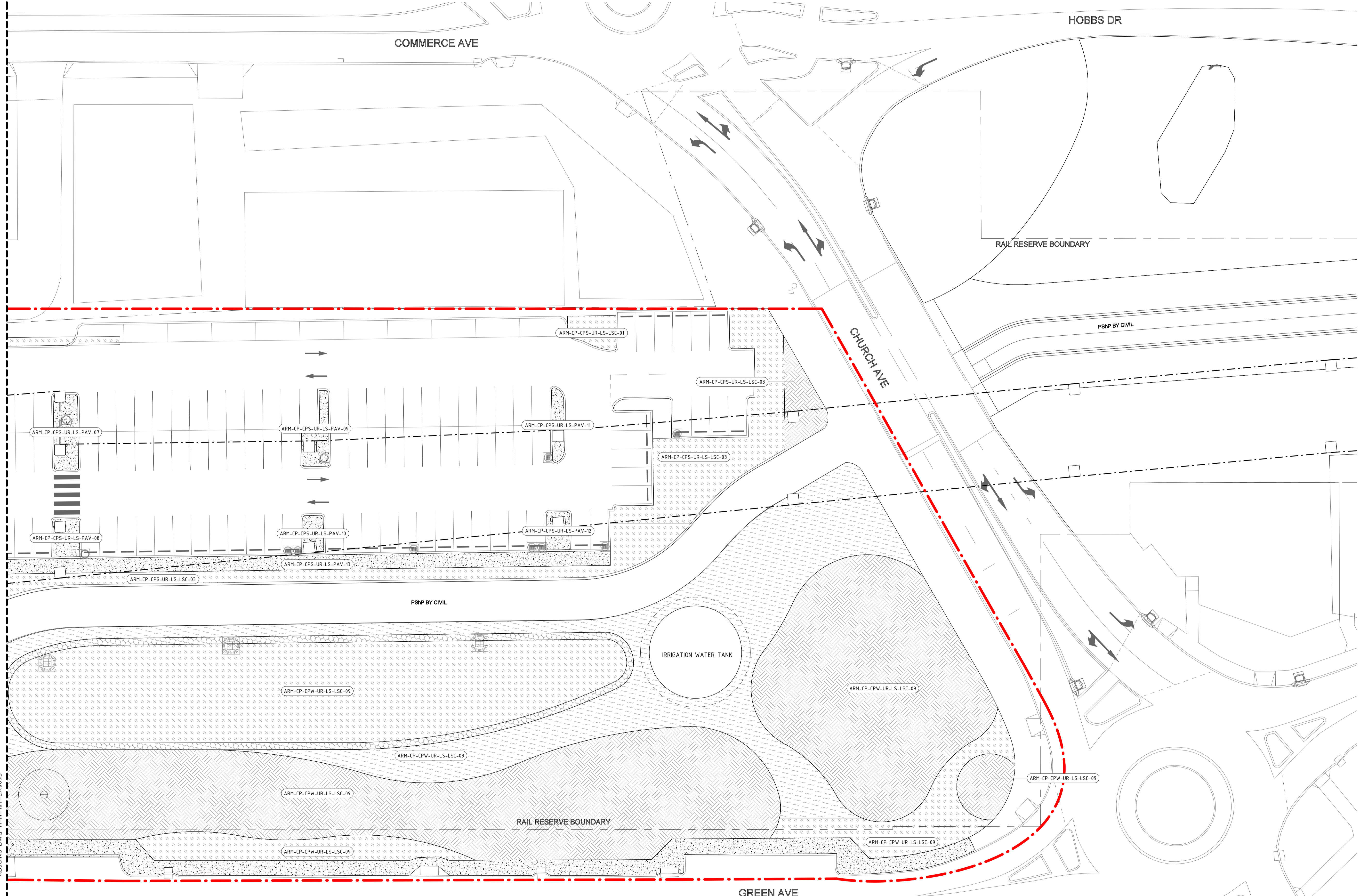
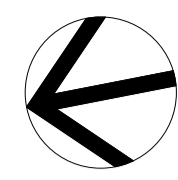
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| DATUM | |
| HORIZONTAL: | PCG2020 |
| VERTICAL: | AHD71 |

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|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 07 | |
| PTA Drawing No: | 11-A-107-LA0093 |
| Rev: | A |

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Contractor No:R30-UDL-DWG-LA-230-00506 Rev: A



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| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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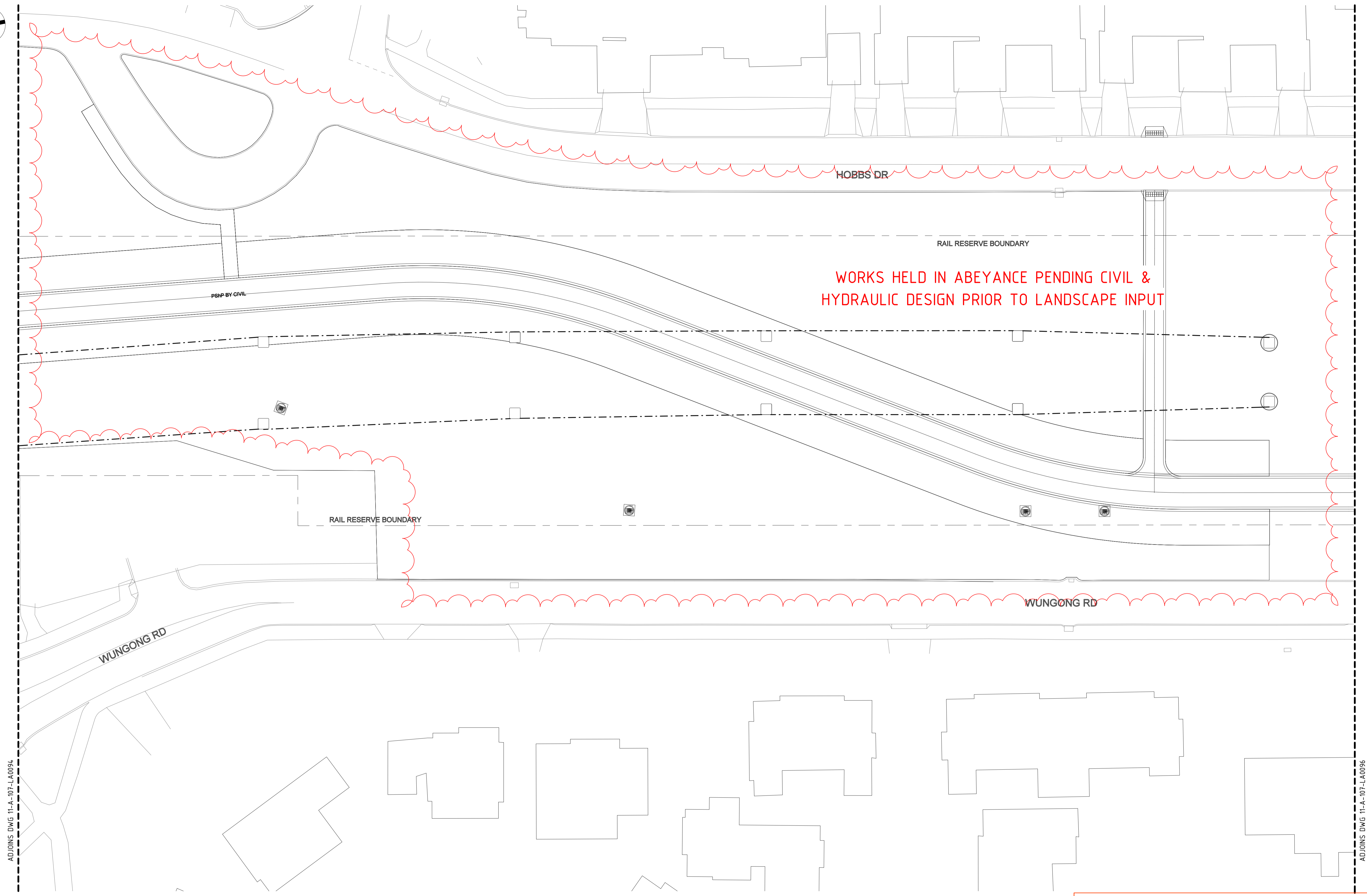
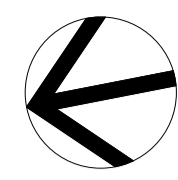


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| REFERENCES |
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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 08 | |
| PTA Drawing No: 11-A-107-LA0094 | Rev: A |



ADJOINS DWG 11-A-107-LA0094

ADJOINS DWG 11-A-107-LA0096

DETAILED DESIGN

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| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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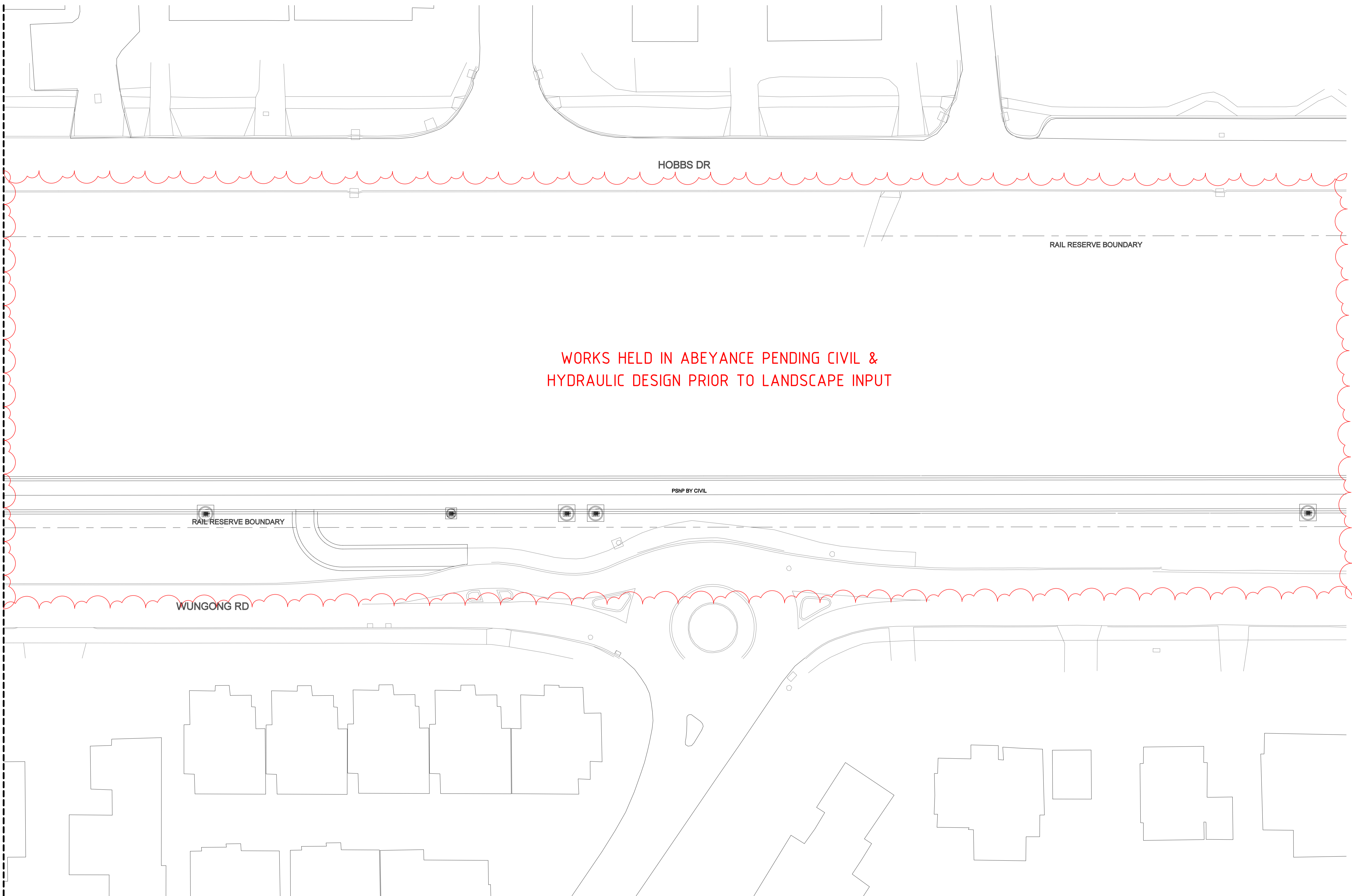
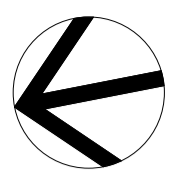


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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 09 | |
| PTA Drawing No: 11-A-107-LA0095 | Rev: A |



WORKS HELD IN ABEYANCE PENDING CIVIL &
HYDRAULIC DESIGN PRIOR TO LANDSCAPE INPUT

ADJOINS DWG 11-A-107-LA0095

DETAILED DESIGN

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|-----------|----------|-----------------------------|-----------------------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | | | | | |
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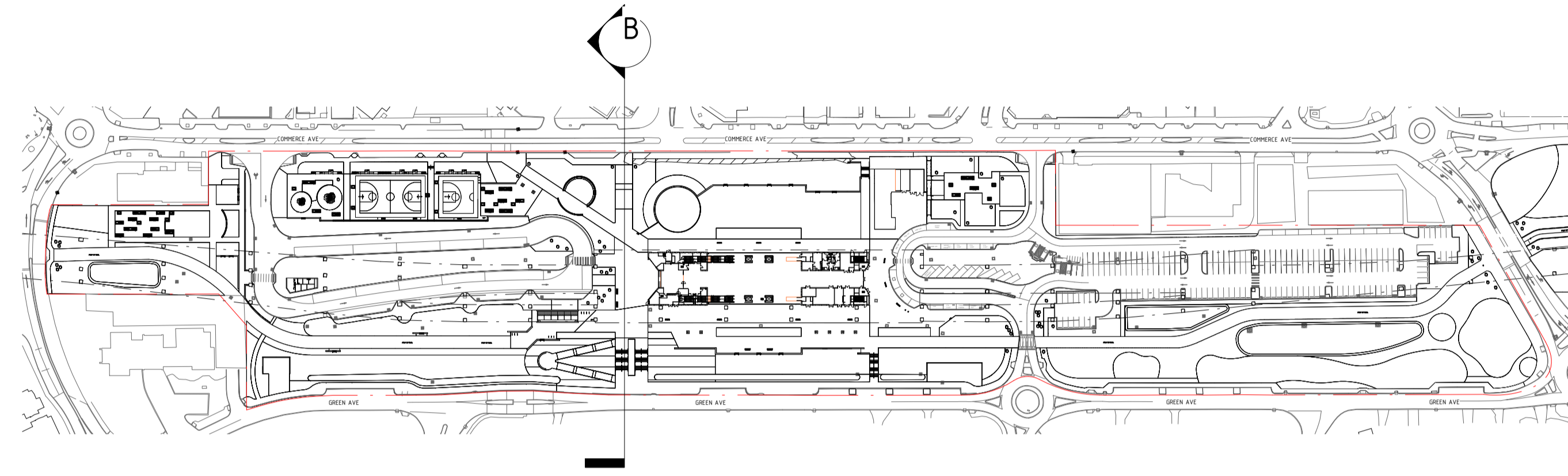
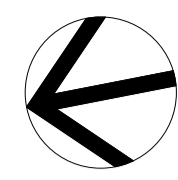


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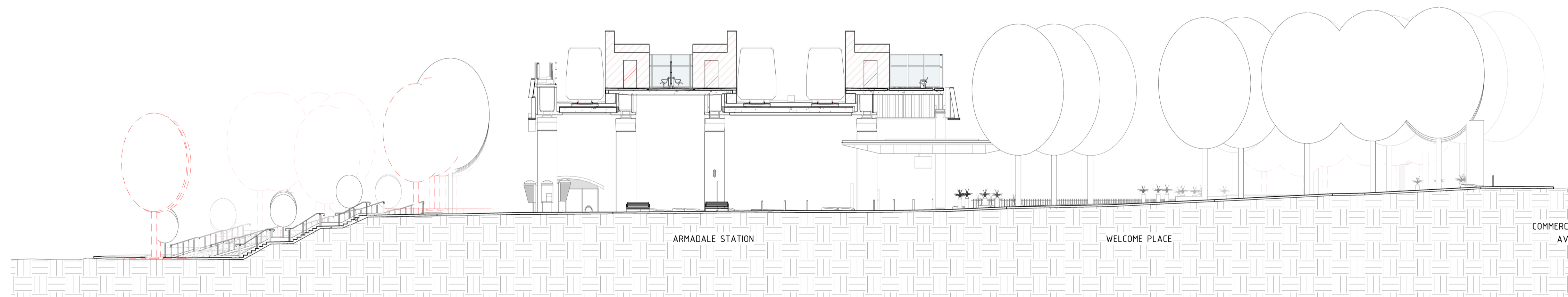
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| HORIZONTAL: | PCG2020 |
| VERTICAL: | AHD71 |

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| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| PTA ASSET PLAN 10 | |
| PTA Drawing No: 11-A-107-LA0096 | Rev: A |



1 SECTION PLAN
1 : 2000



3 TYPICAL SECTION B
1 : 200

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| C | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| B | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 05.08.22 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

| ORIG SIZE | SCALE |
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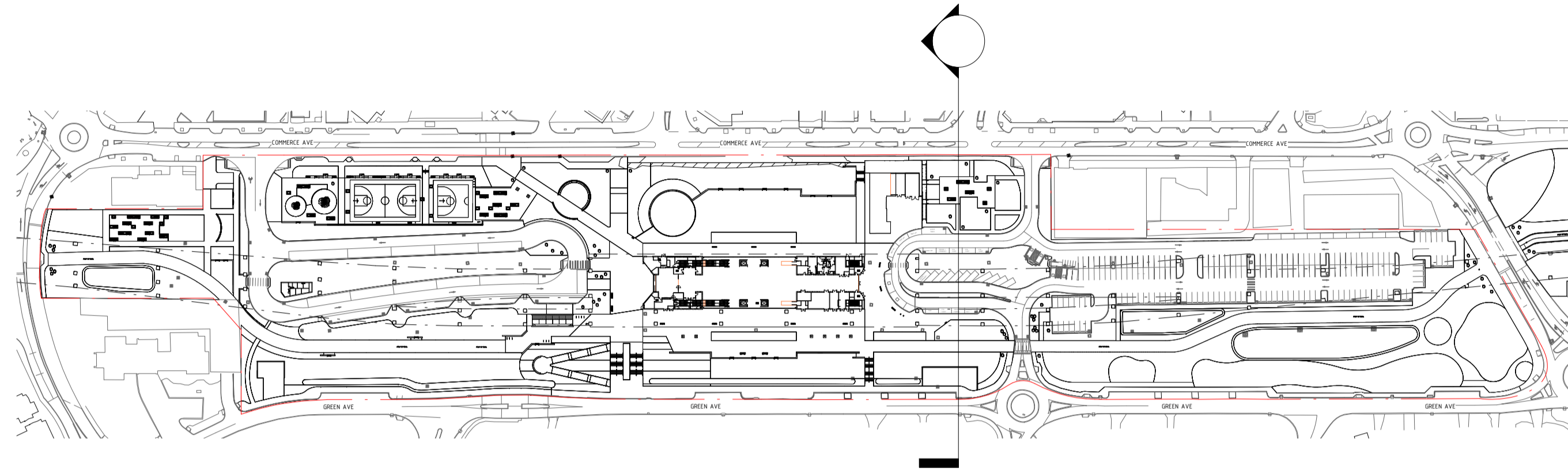
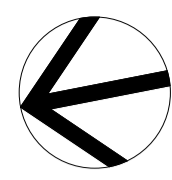
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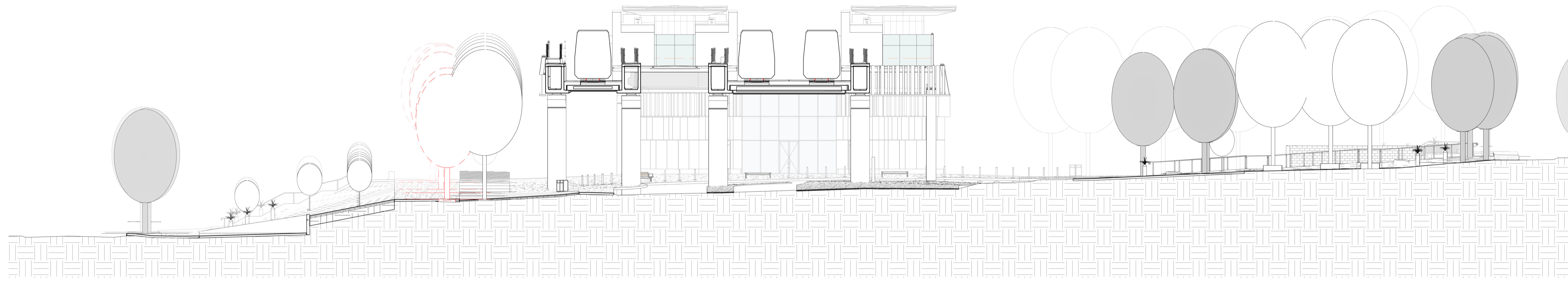
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| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 10/02/23 |

| DATUM | HORIZONTAL | VERTICAL |
|-------|------------|----------|
| | PCG2020 | AHD71 |

| DETAILED DESIGN | |
|---------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| SECTIONS 01 | |
| PTA Drawing No: 11-A-107-LA0128 | Rev: C |



1 SECTION PLAN
1 : 2000



2 TYPICAL SECTION C
1 : 200

DETAILED DESIGN

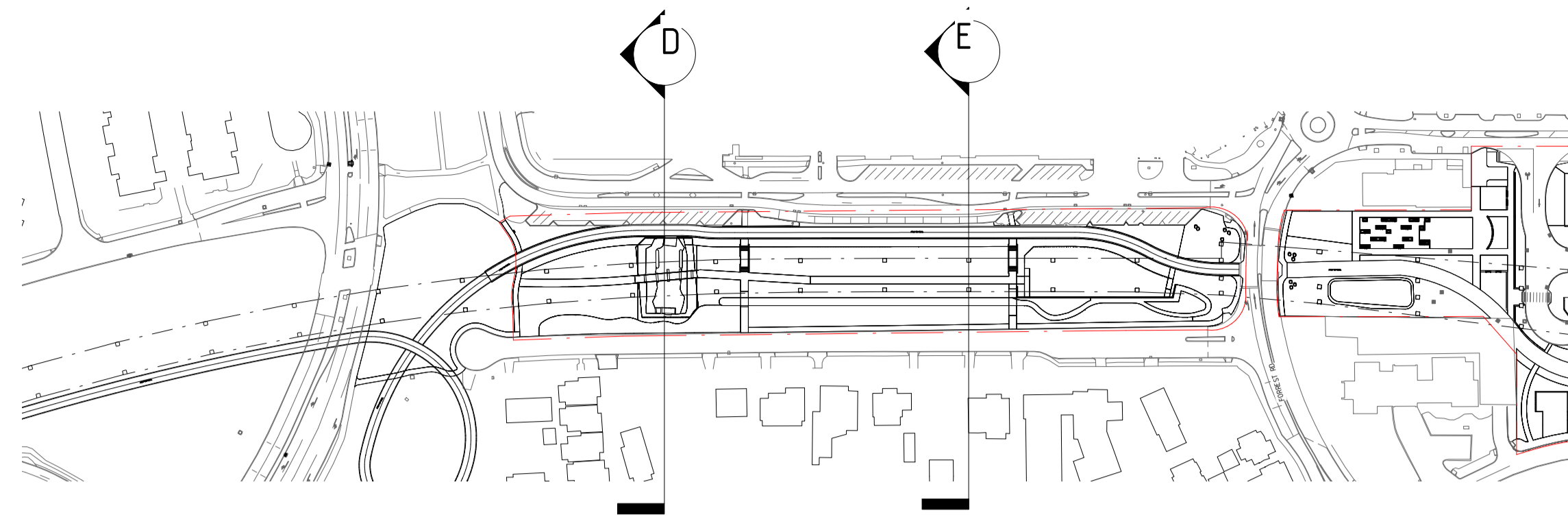
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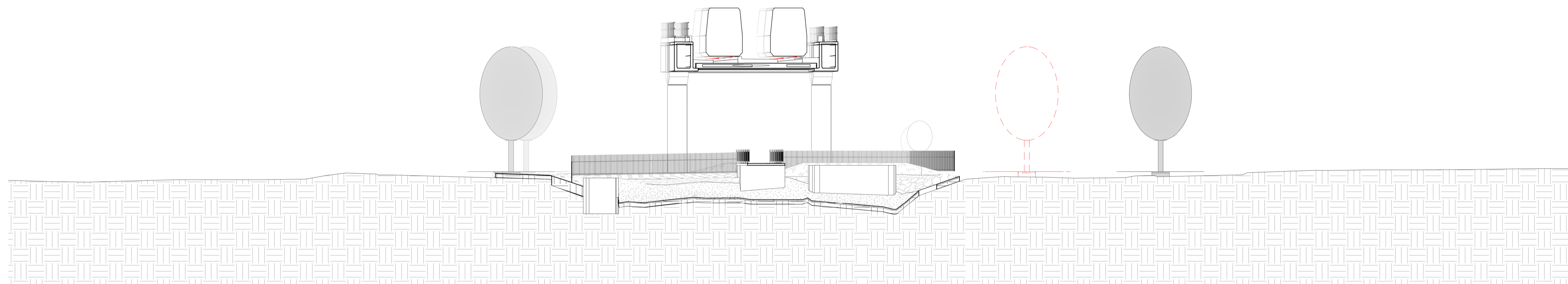


| REFERENCES | SCALE | DESIGNED |
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| | As indicated | D.Firns |
| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | DATUM | DATE 10/02/23 |
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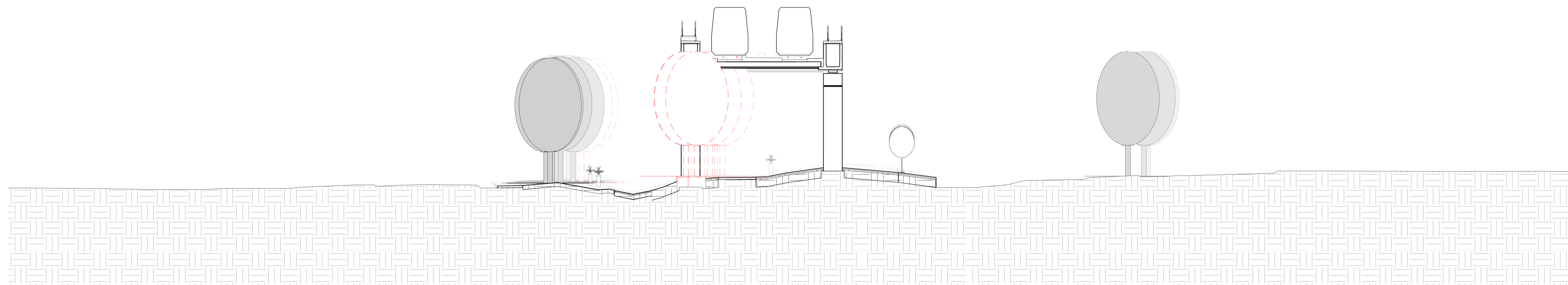
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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| SECTIONS 02 | |
| PTA Drawing No: 11-A-107-LA0129 | Rev: C |



1 SECTION PLAN
1 : 2000



2 TYPICAL SECTION D
1 : 200



3 TYPICAL SECTION E
1 : 200

DETAILED DESIGN

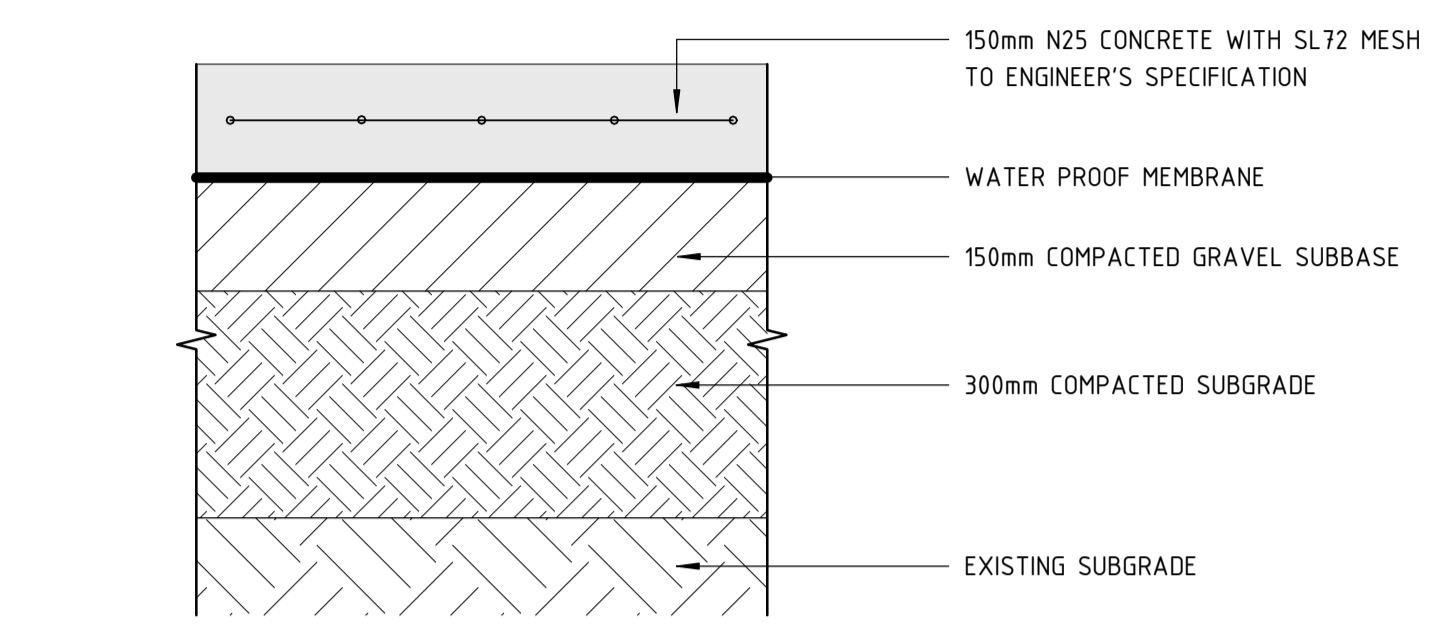
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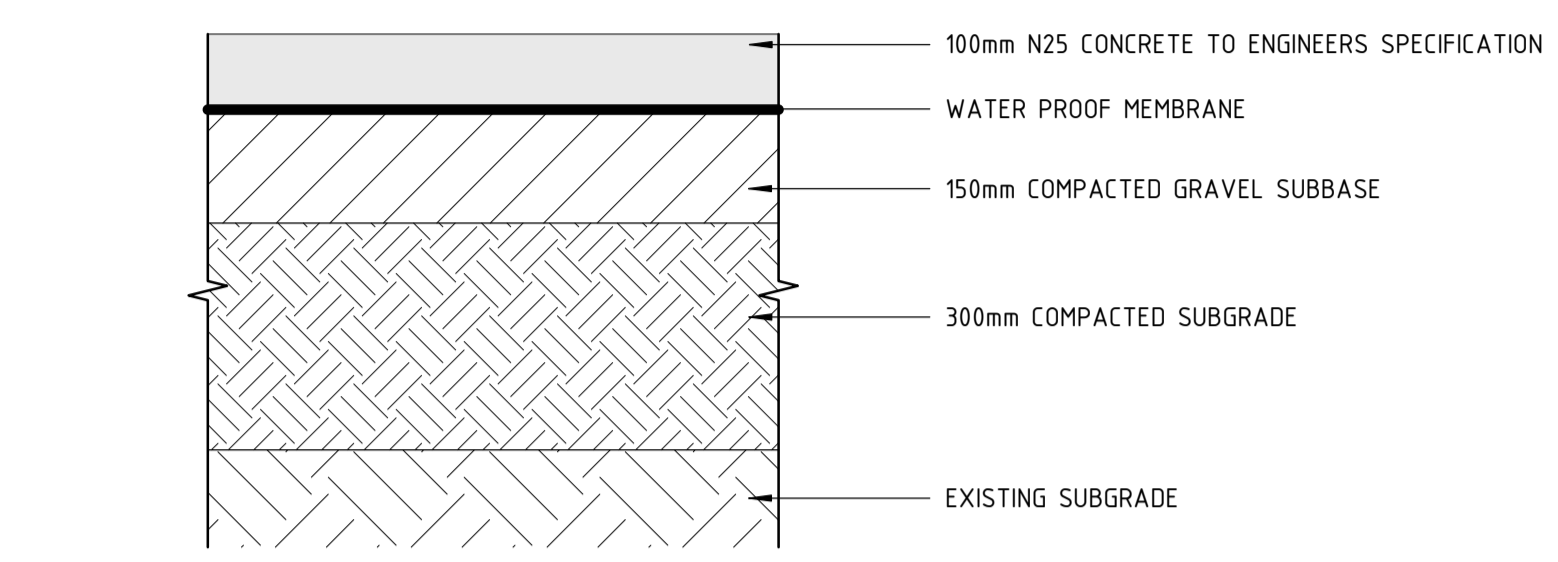
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| | HORIZONTAL: PCG2020 | CHECKED M.Harris |
| | VERTICAL: AHD71 | APPROVED A.Eyres |
| | | DATE 02/06/23 |

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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| SECTIONS 03 | |
| PTA Drawing No: 11-A-107-LA0130 | Rev: B |

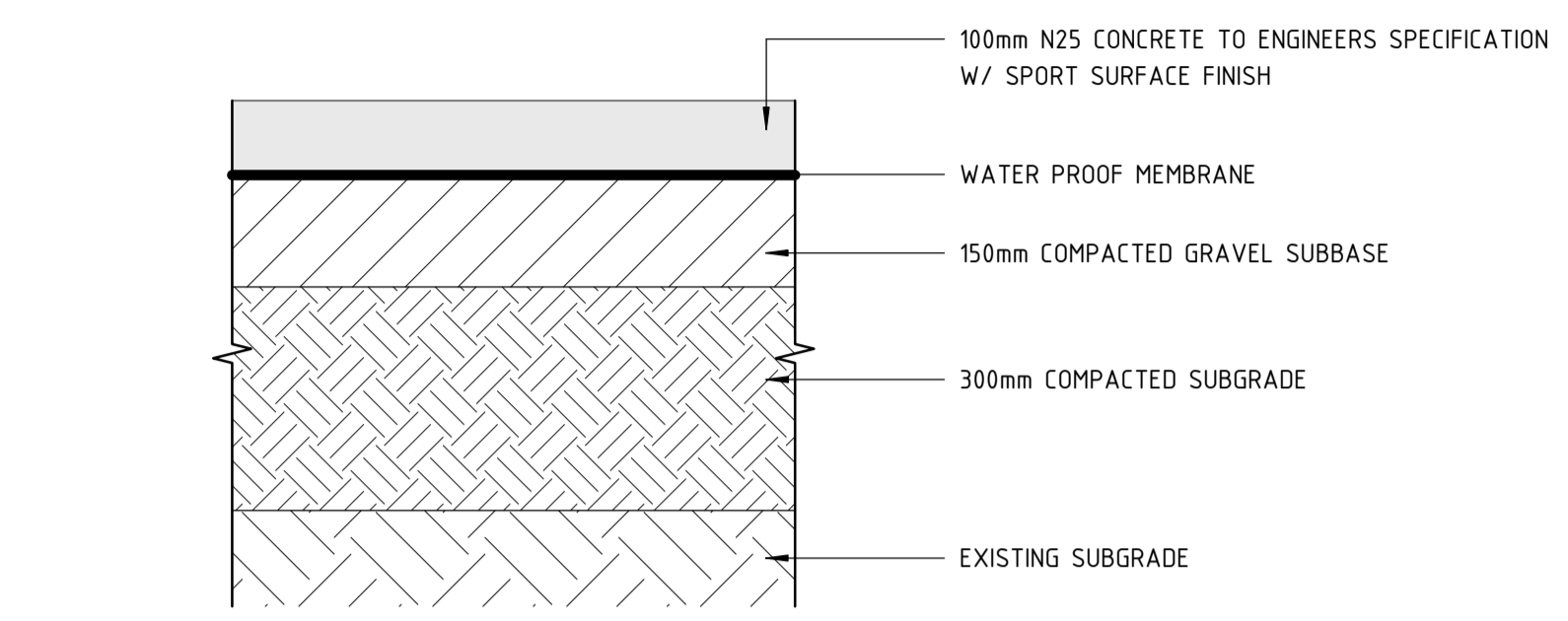
NOTES:
ALL DETAILS SUBJECT TO STRUCTURAL ENGINEER REVIEW.



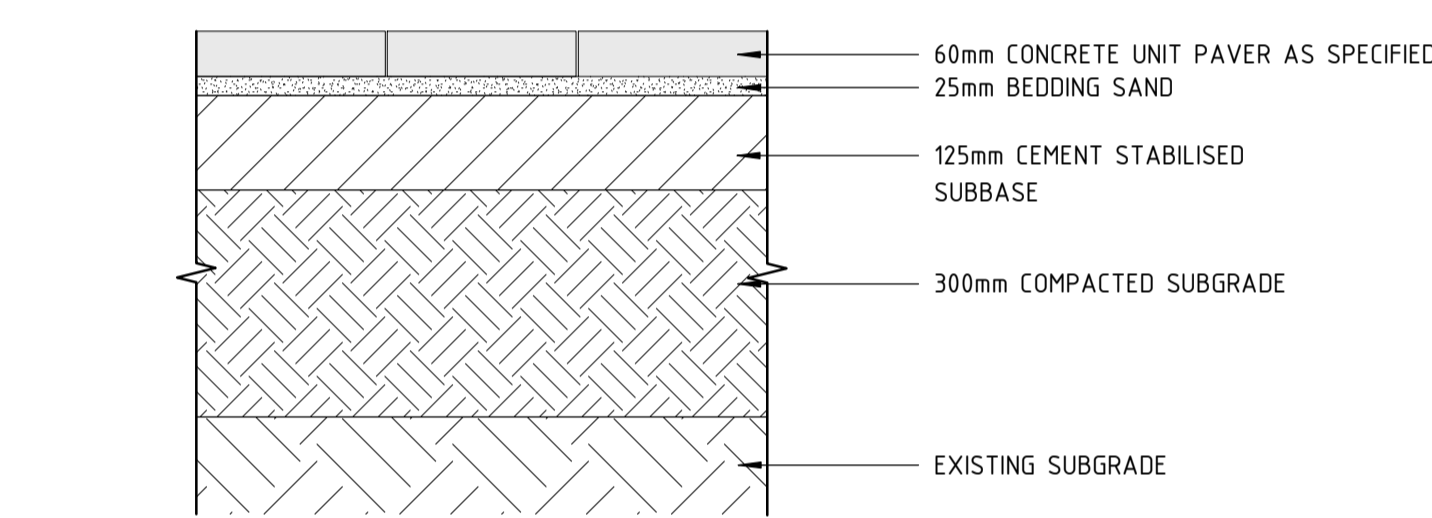
3 INSITU CONCRETE EXP. AGG (P1-01A)
1 : 10



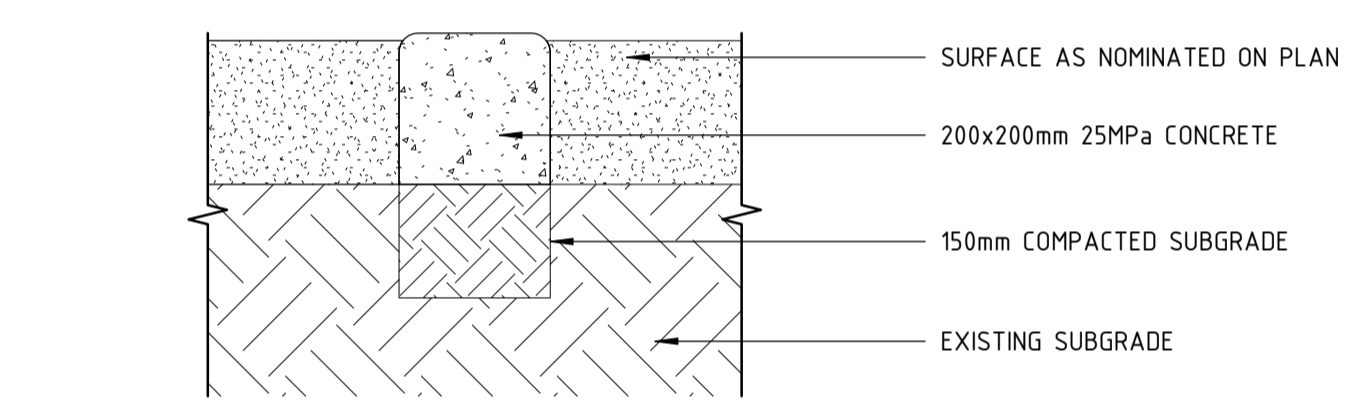
5 STANDARD GREY CONCRETE (P1-05B)
1 : 10



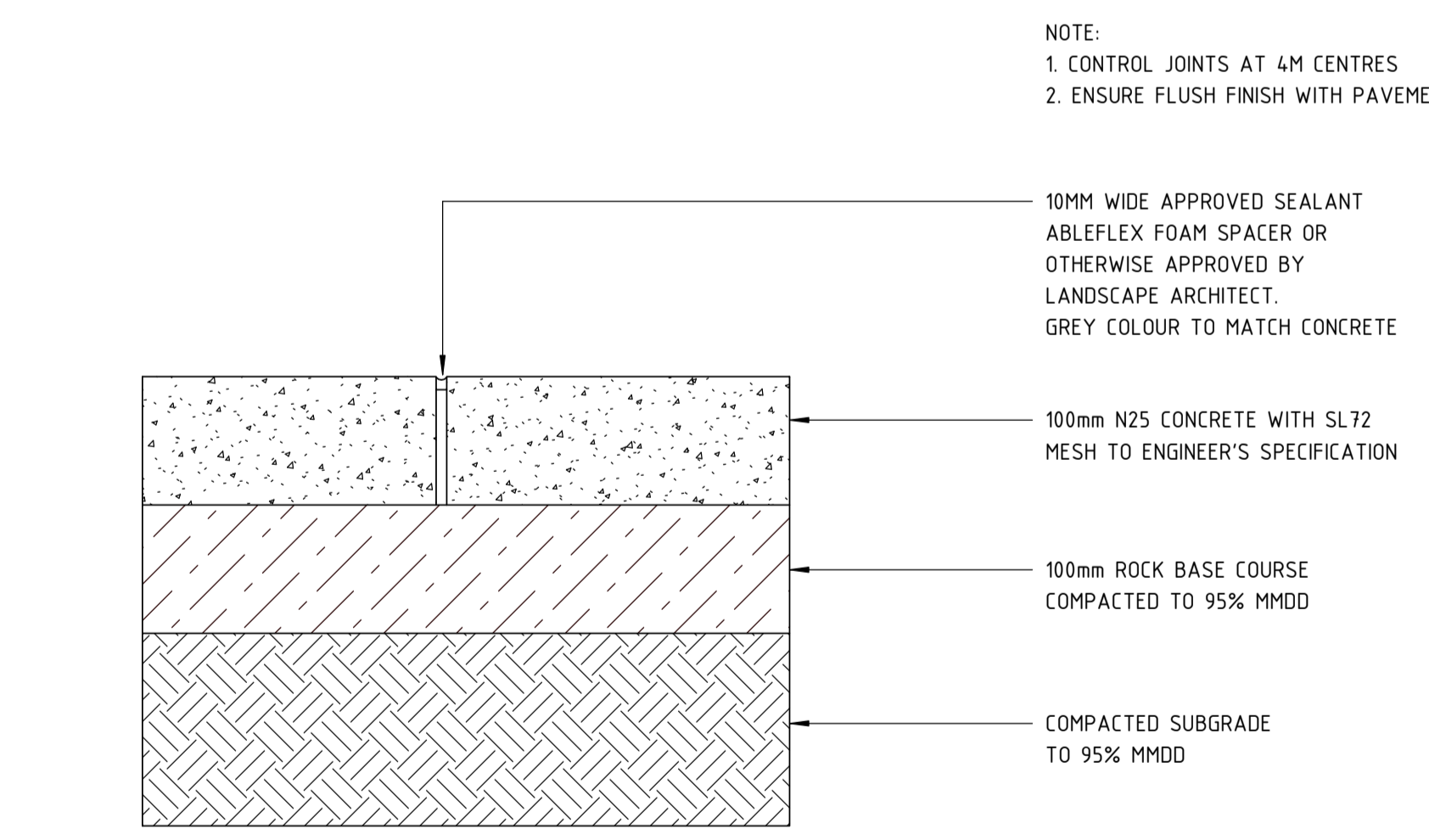
2 BROOM FINISH CONCRETE W/ SPORT SURFACE FINISH (P1-05C)
1 : 10



1 CONCRETE UNIT PAVER (P2-01A)
1 : 10

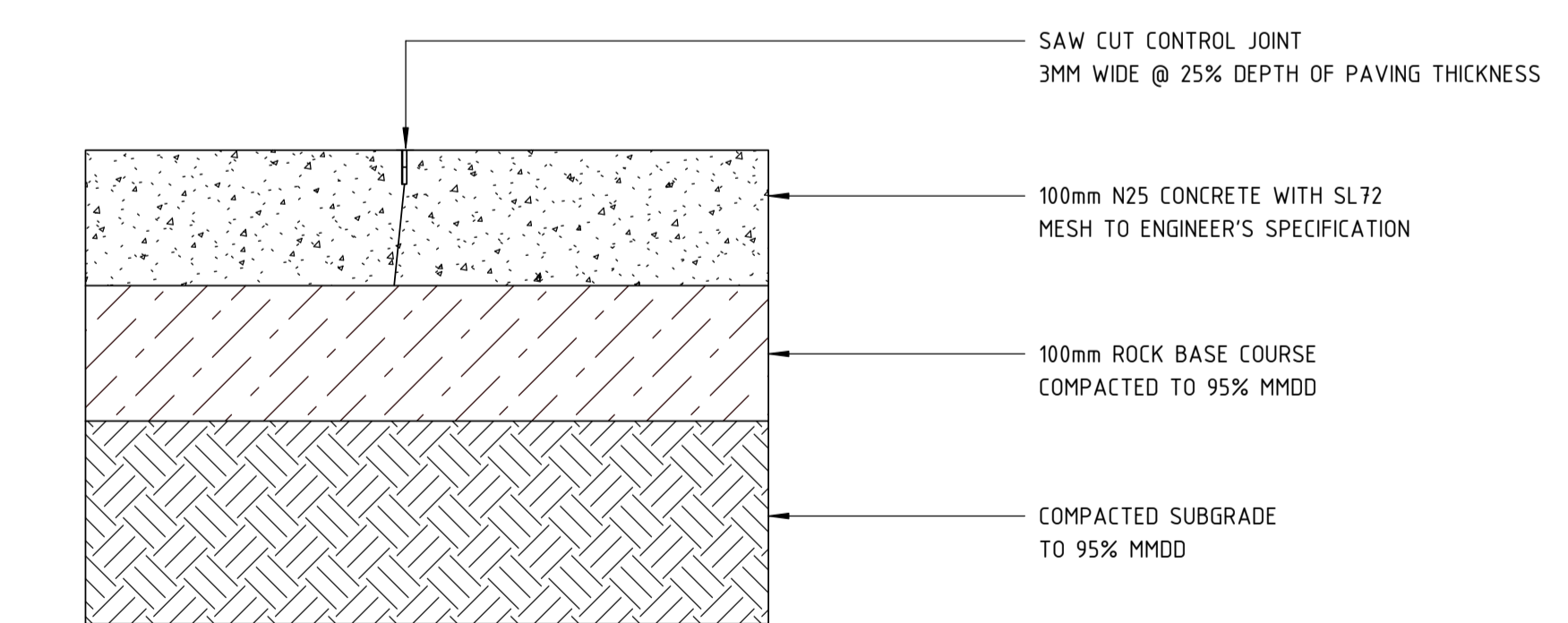


6 MOW KERB - EDGE RESTRAINT
1 : 10



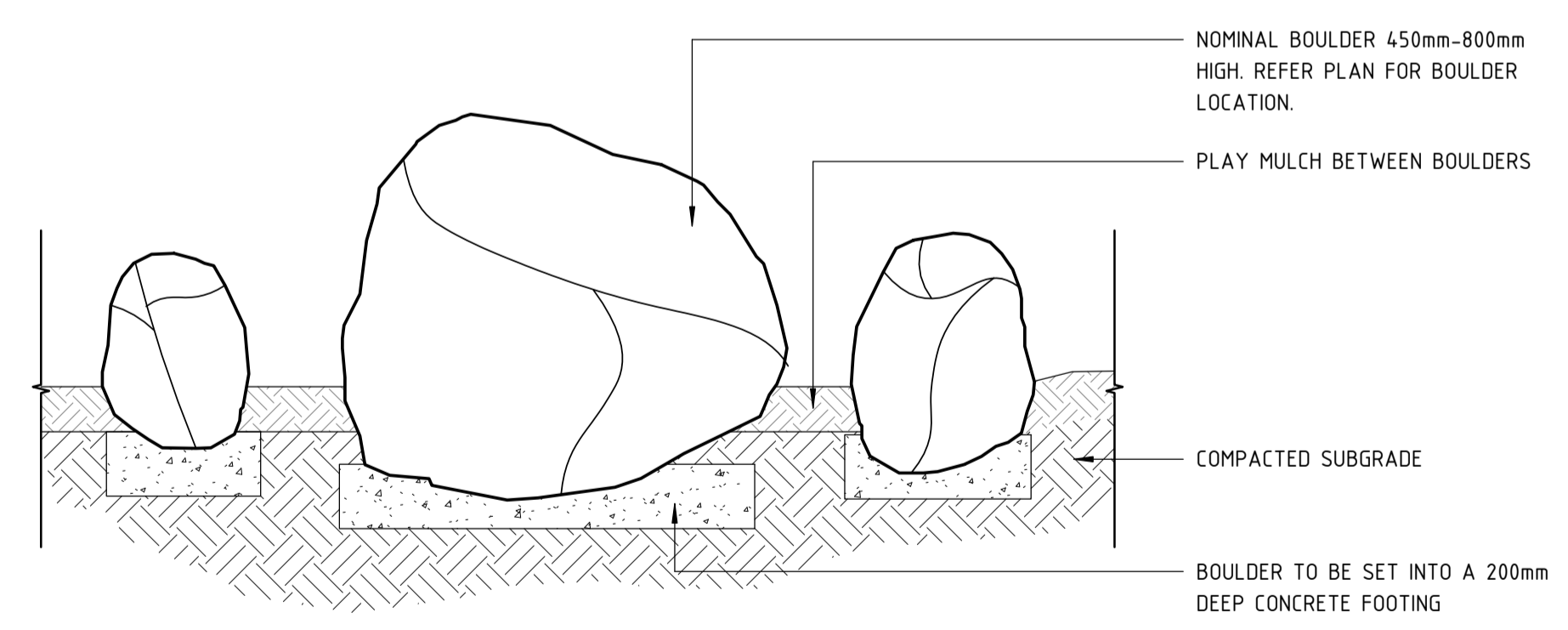
7 TYPICAL CONTRACTION JOINT (CJ)
1 : 5

NOTE:
1. CONTROL JOINTS AT 4M CENTRES
2. ENSURE FLUSH FINISH WITH PAVEMENT TREATMENTS



8 EXPANSION JOINT (EJ)
1 : 5

NOTE:
1. CONTROL JOINTS AT 2M CENTRES
2. ENSURE FLUSH FINISH WITH PAVEMENT TREATMENTS



9 FEATURE BOULDERS
1 : 20

GRANITE BOULDERS TO BE SOURCED AND INSTALLED. MIN HEIGHT SIZE 450mm-MAX SIZE 800mm. GENERALLY BOULDERS TO BE BURIED APPROX. 1/3 OF EXPOSED HEIGHT AND INSTALLED WITH MORTAR BED.

| | | | | | | |
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| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

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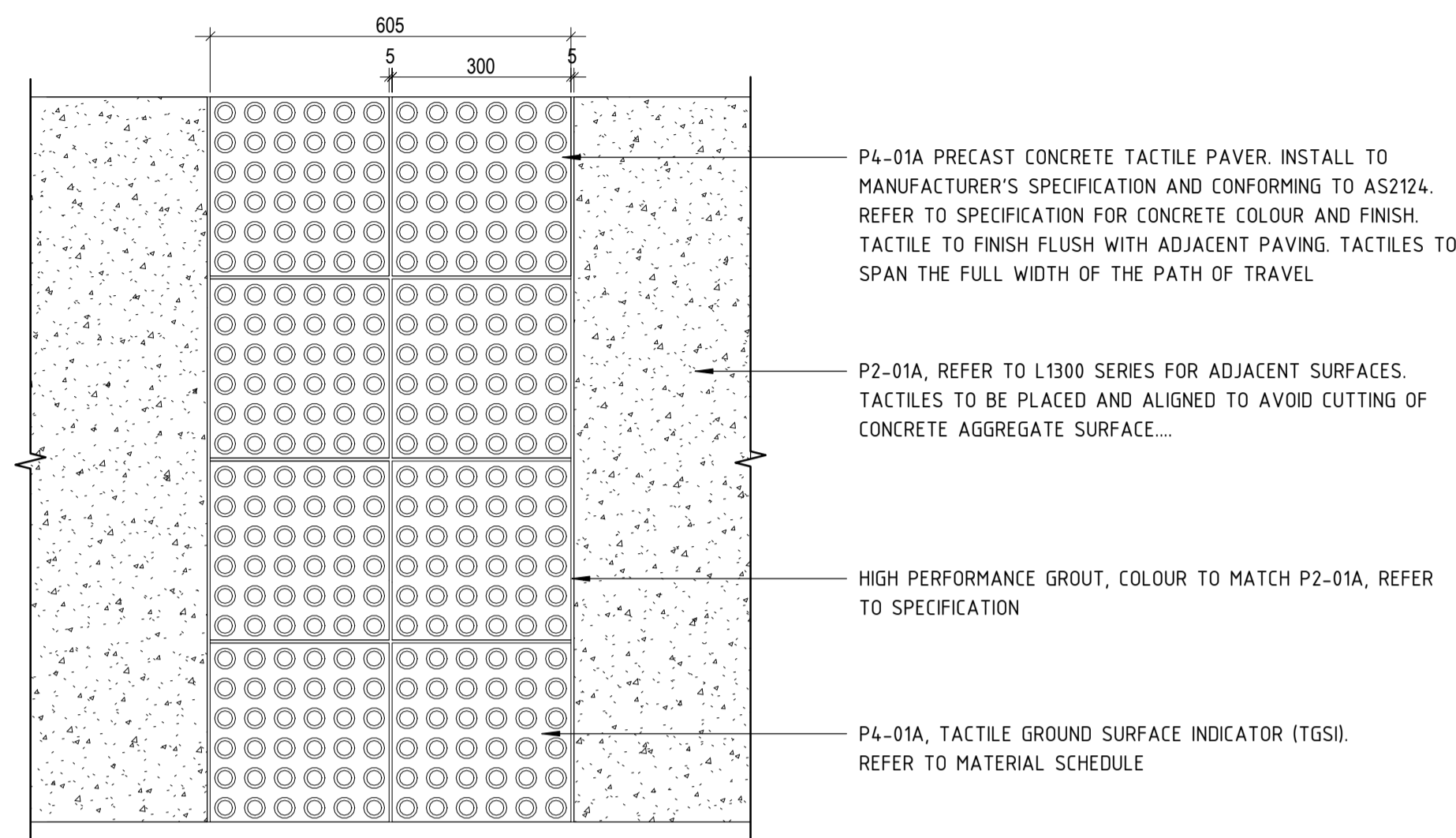
Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

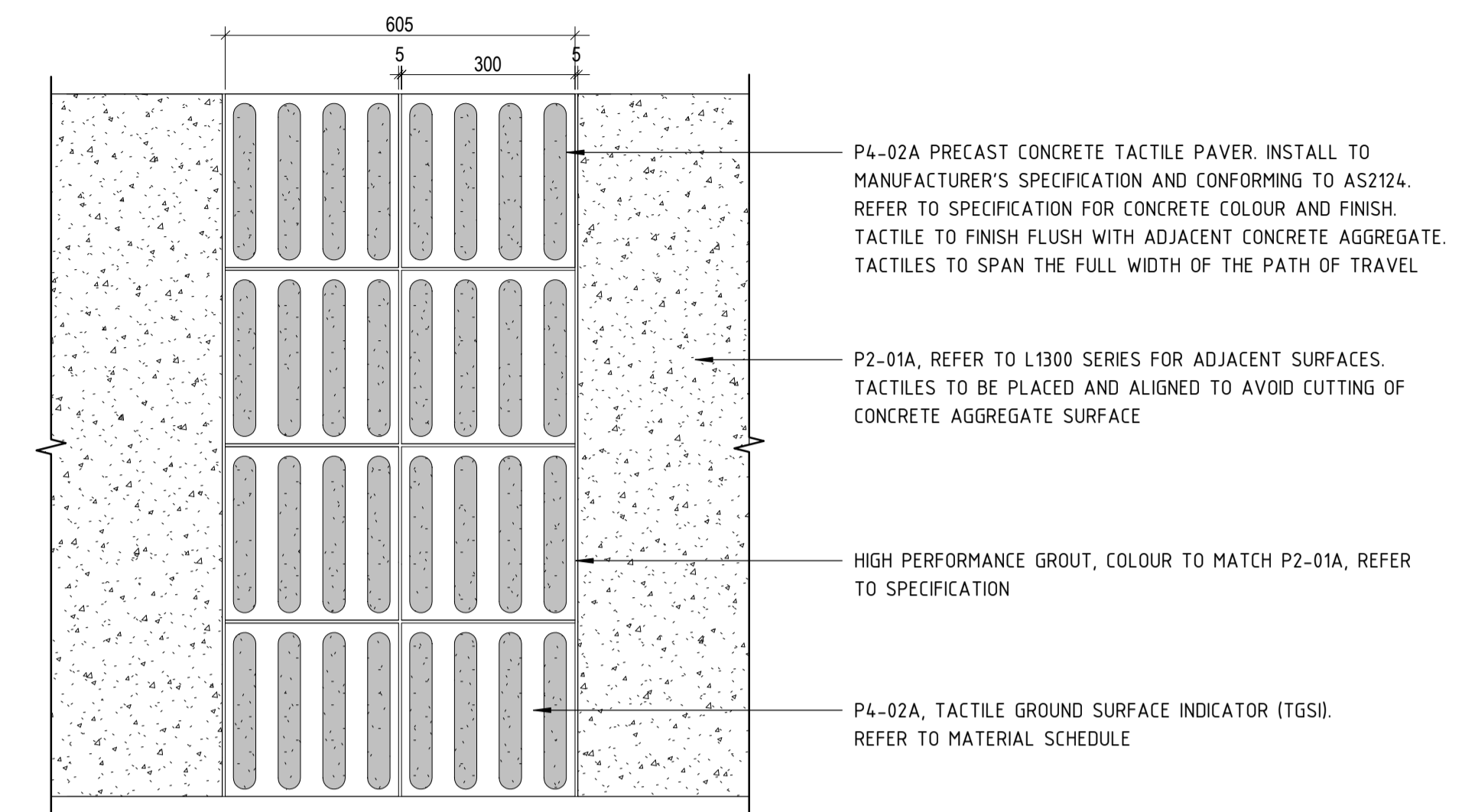
ARMADALE STATION PRECINCT
LANDSCAPE
HARDSCAPE DETAILS 01

PTA Drawing No: 11-A-107-LA10011

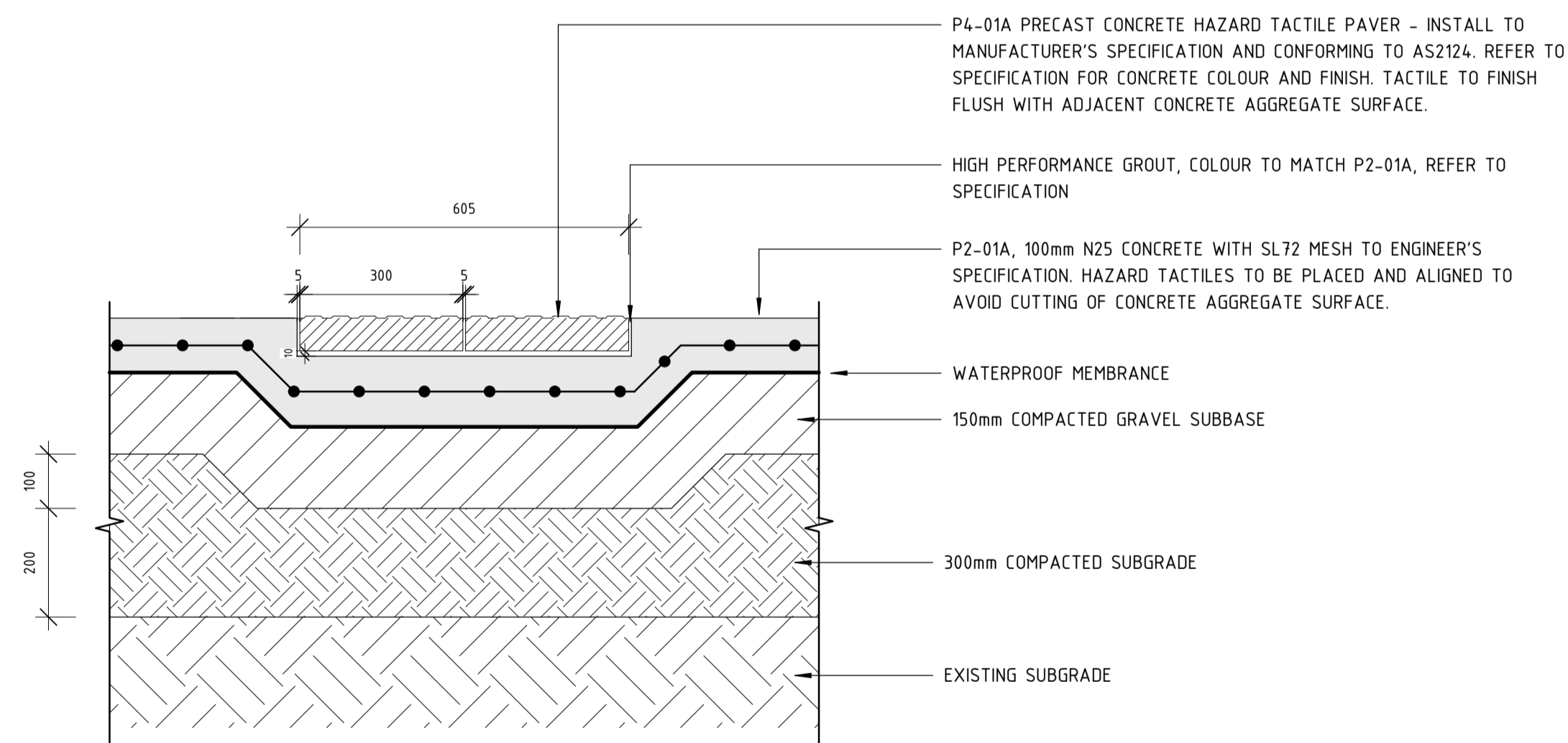
Rev: B



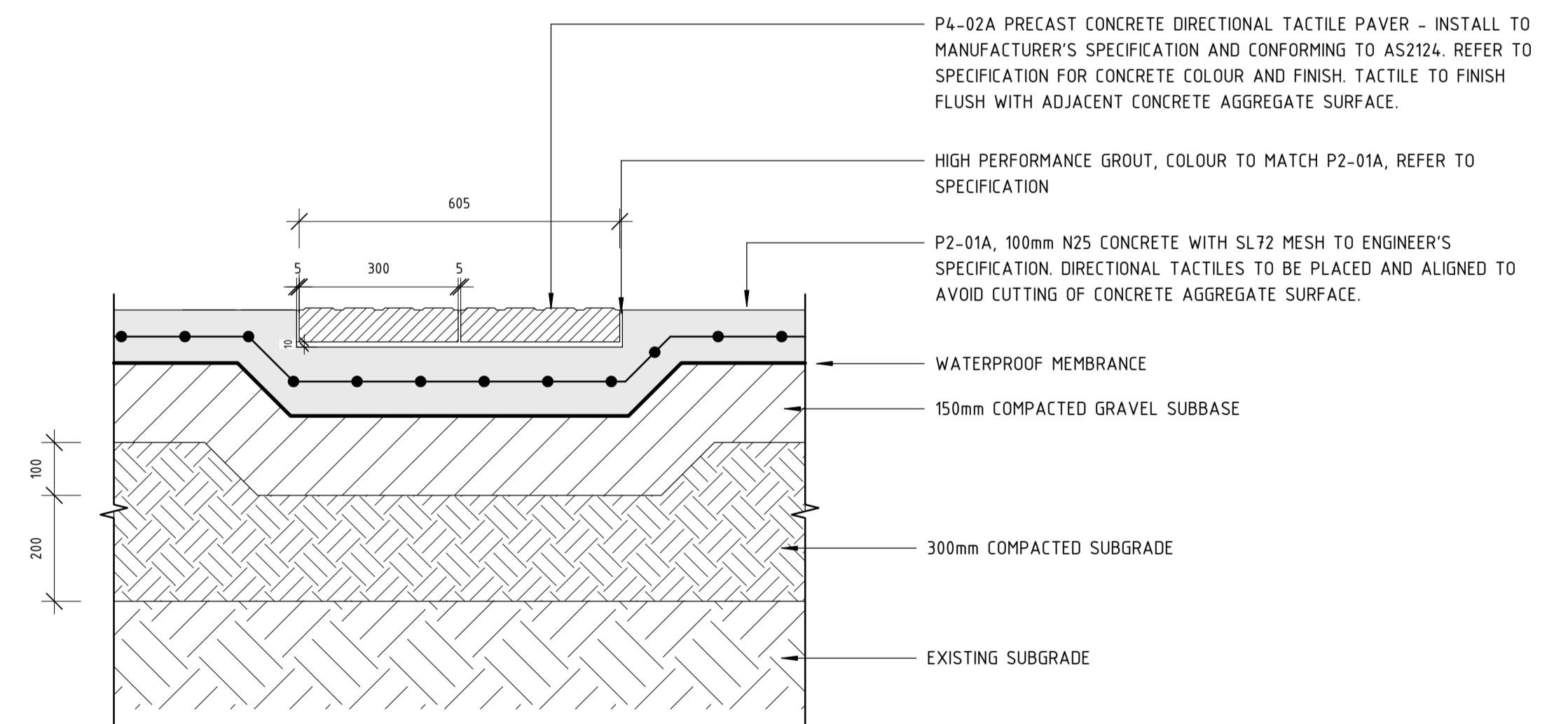
1 HAZARD TACTILE UNITS (P4-01A) - PLAN
1 : 10



2 DIRECTIONAL TACTILE UNITS (P4-02A) - PLAN
1 : 10



3 INTEGRATED TACTILE UNITS (P4-01A) - SECTION
1 : 10



4 INTEGRATED TACTILE UNITS (P4-02A) - SECTION
1 : 10

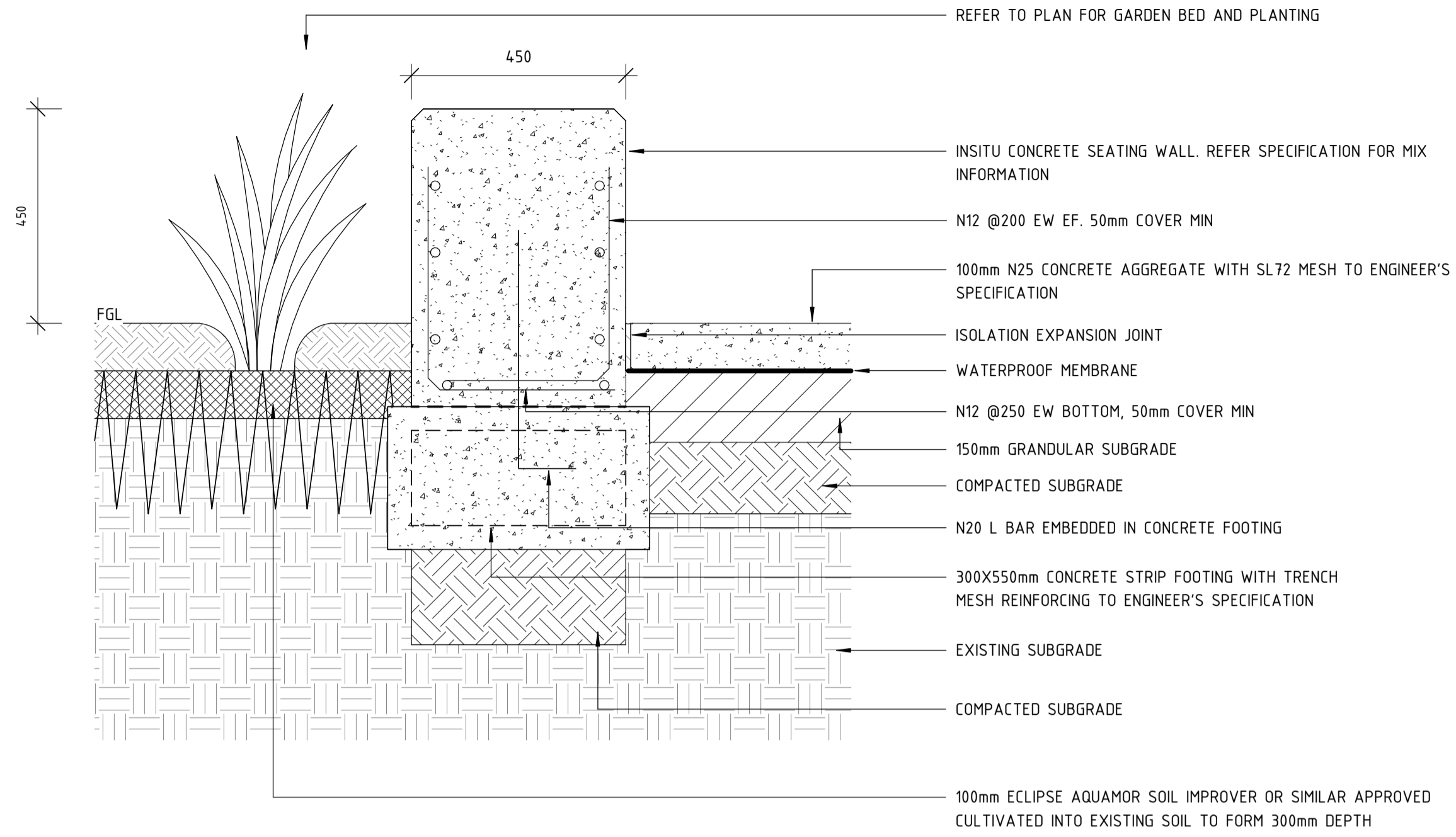
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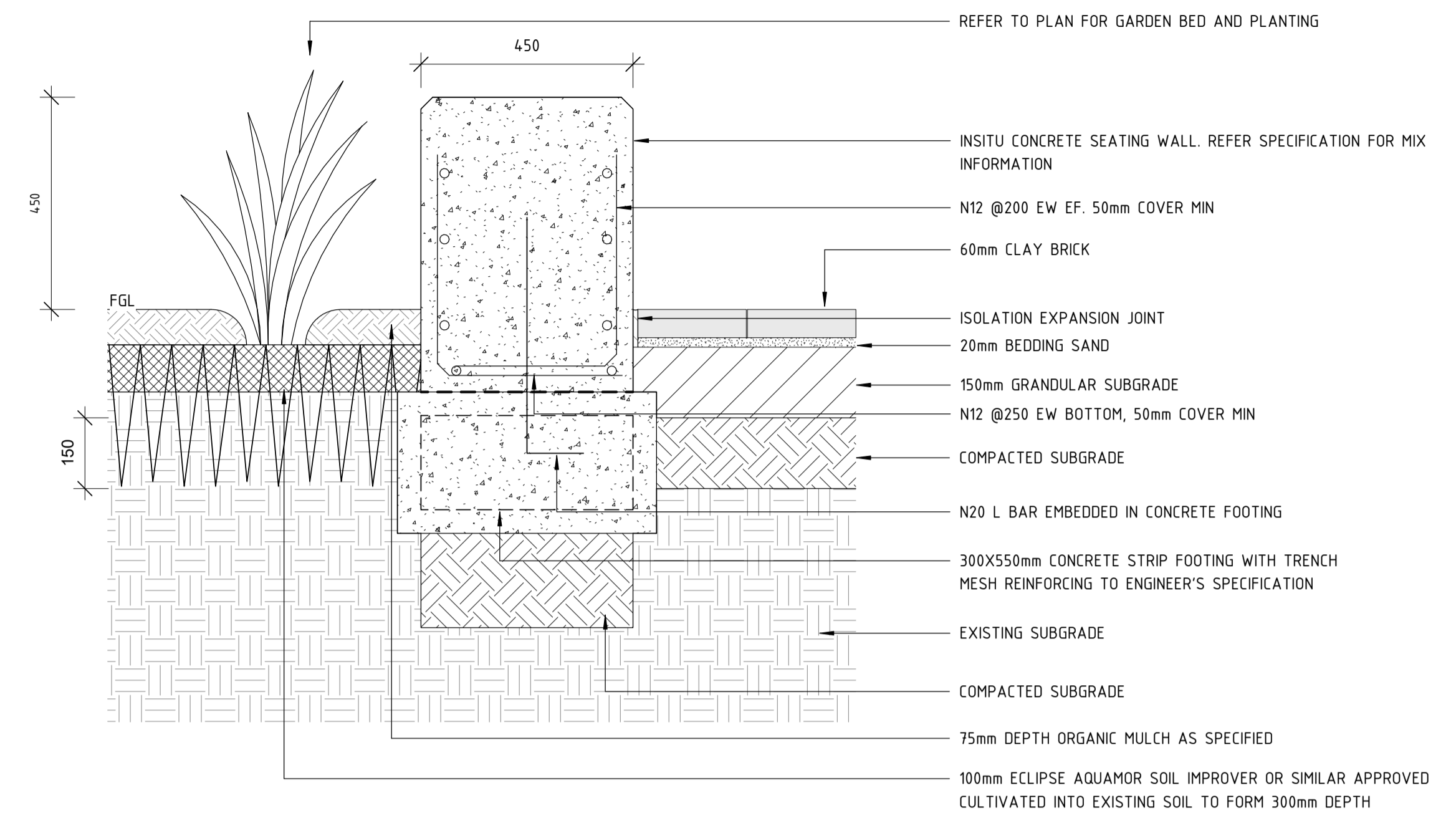
Contractor No:R30-UDL-DWG-LA-230-02134 | Rev: B

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| | DATUM | DRAWN Y.Demissie |
| | HORIZONTAL: PCG2020 | CHECKED M.Harris |
| | VERTICAL: AHD71 | APPROVED A.Eyres |
| | | DATE 02/06/23 |

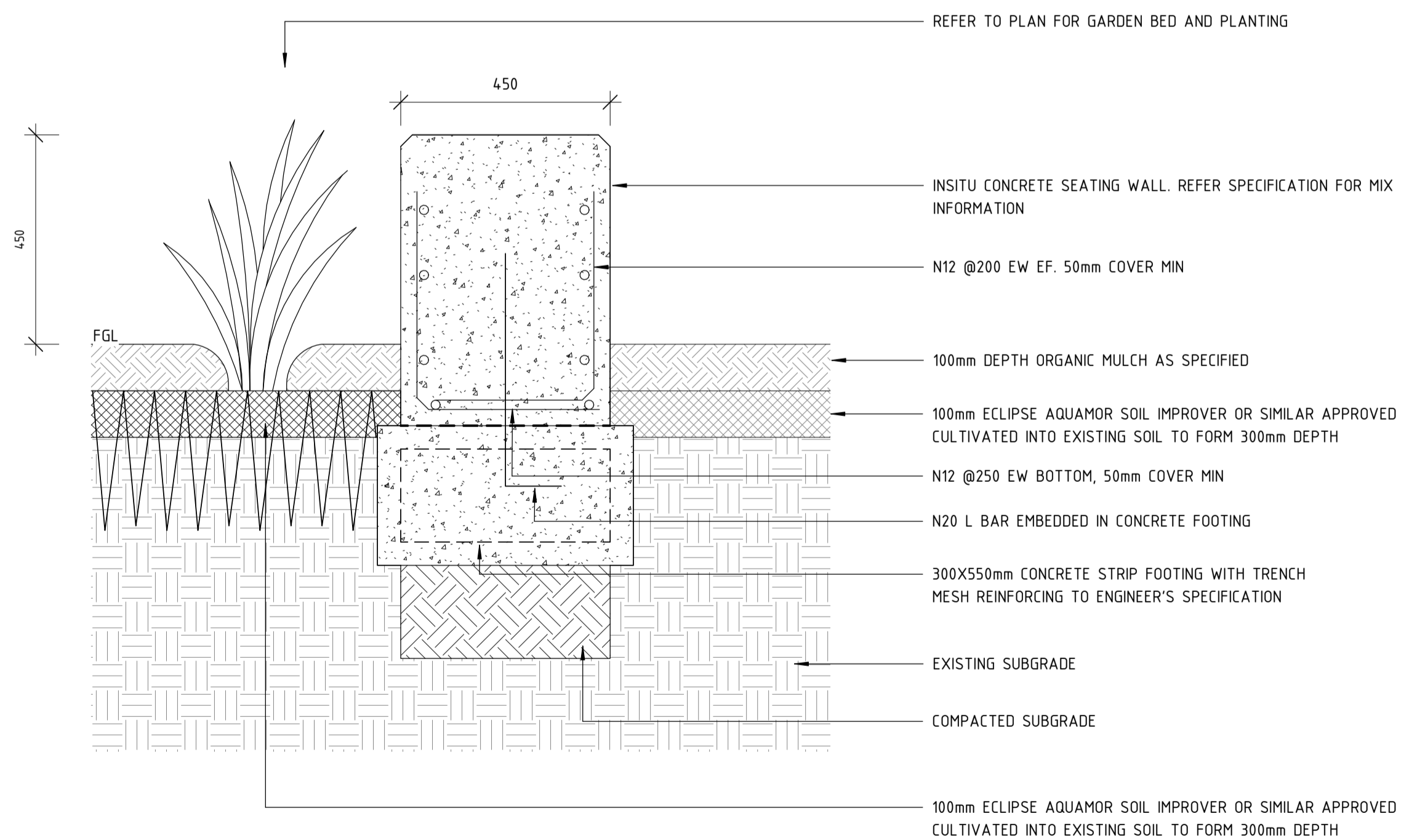
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| DETAILED DESIGN | |
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| HARDSCAPE DETAILS 02 | |
| PTA Drawing No: 11-A-107-LA10012 | Rev: B |



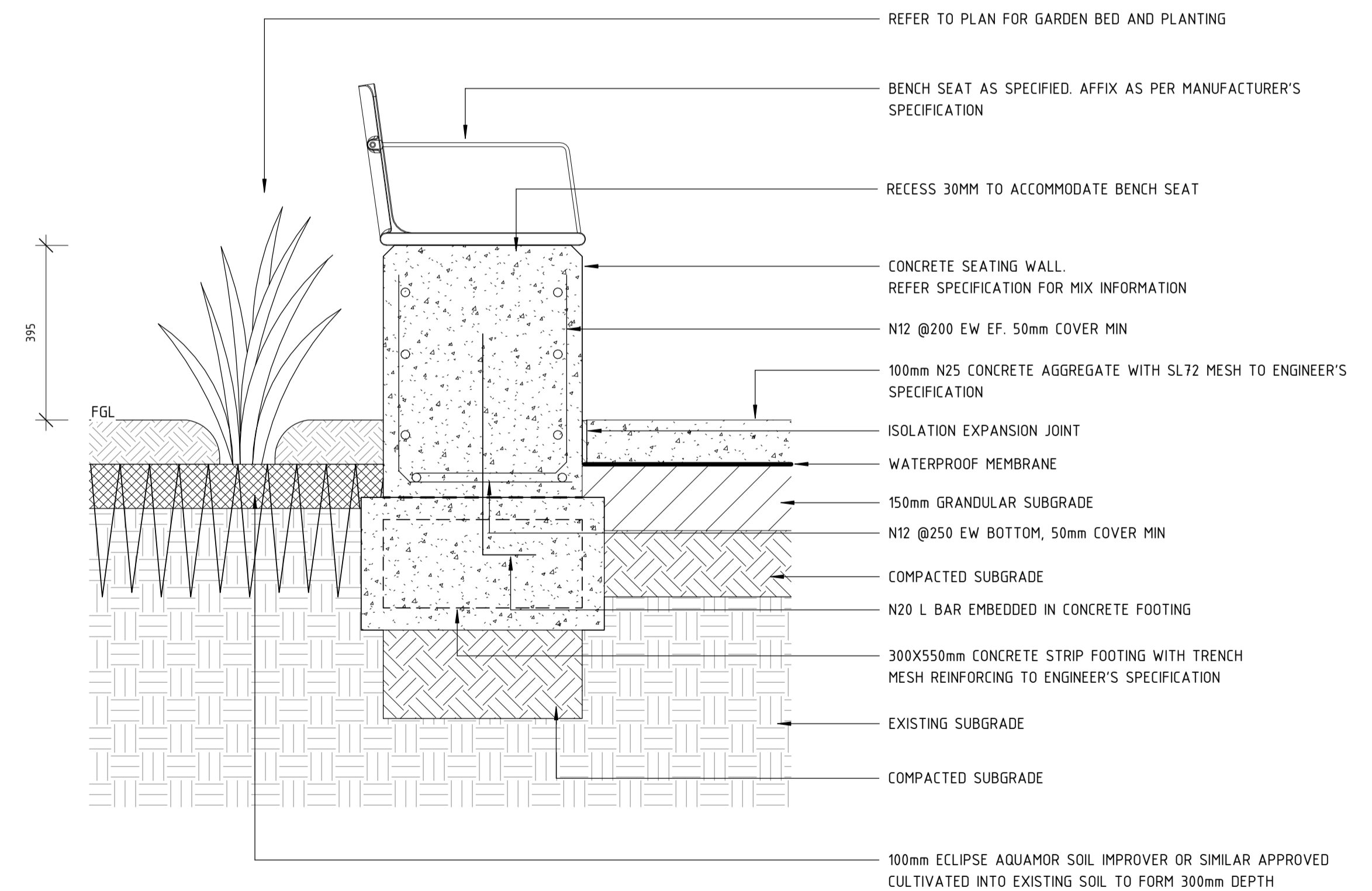
1 CONCRETE SEATED WALL (CONC. AGG/GARDEN BED)
1 : 10



2 CONCRETE SEATED WALL (PAVEMENT/GARDEN BED)
1 : 10



3 CONCRETE SEATED WALL (MULCH/GARDEN BED)
1 : 10



4 SEATED WALL - BACKREST & ARMREST (F4-01B)
1 : 10

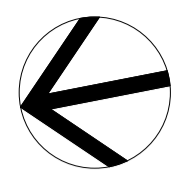
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| B | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
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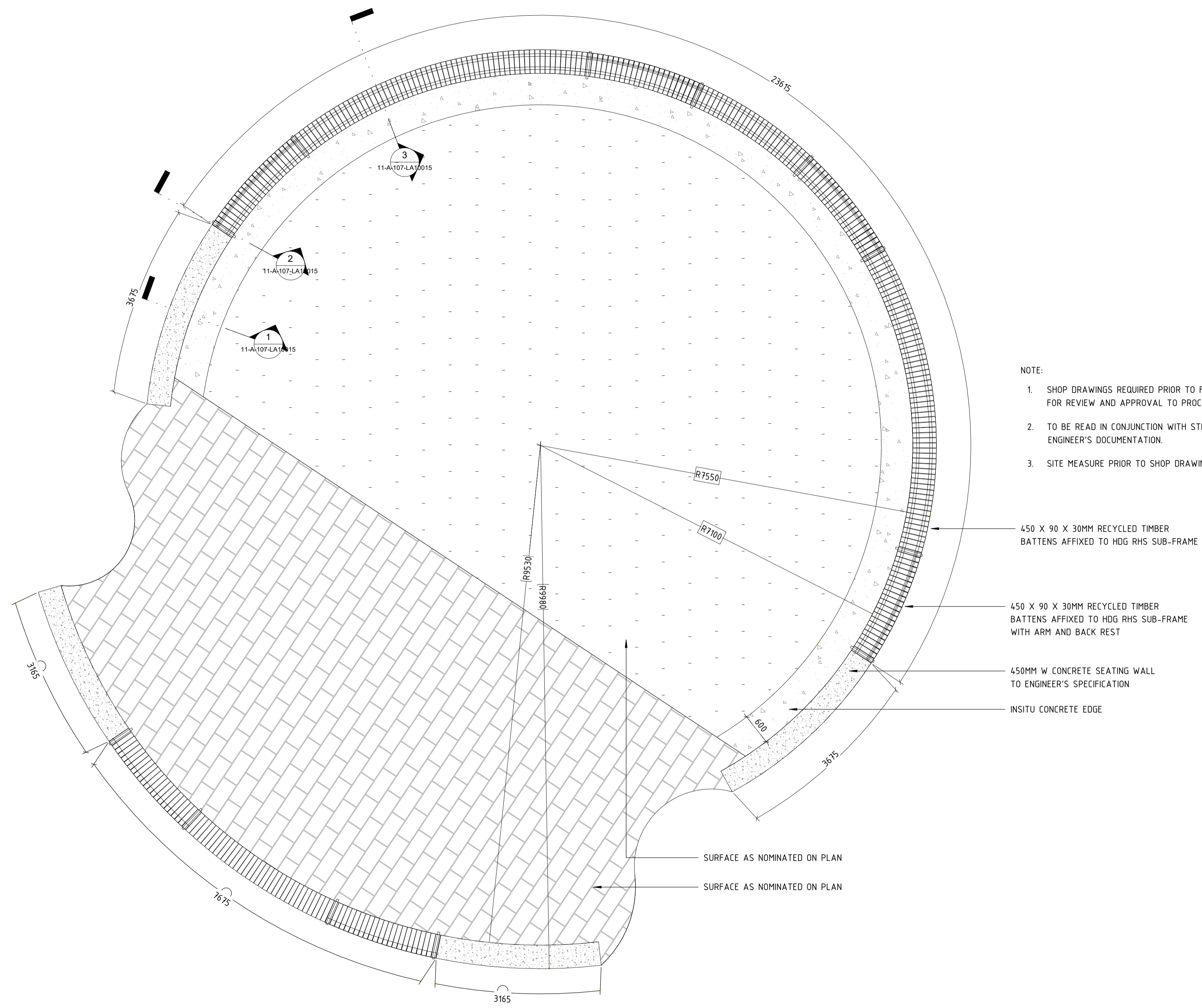
Contractor No:R30-UDL-DWG-LA-230-02135 Rev: B

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| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

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| DETAILED DESIGN | |
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| HARDSCAPE DETAILS 03 | |
| PTA Drawing No: 11-A-107-LA10013 | Rev: B |



- NOTES:**
- SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION FOR REVIEW AND APPROVAL TO PROCEED.
 - TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.
 - SITE MEASURE PRIOR TO SHOP DRAWINGS.



- NOTE:**
- SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION FOR REVIEW AND APPROVAL TO PROCEED.
 - TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.
 - SITE MEASURE PRIOR TO SHOP DRAWINGS.

1 YARNING CIRCLE
1 : 50

| | |
|----------------------------------|-----------------------|
| DETAILED DESIGN | |
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| HARDSCAPE DETAILS 04 | |
| PTA Drawing No: 11-A-107-LA10014 | Rev: A |



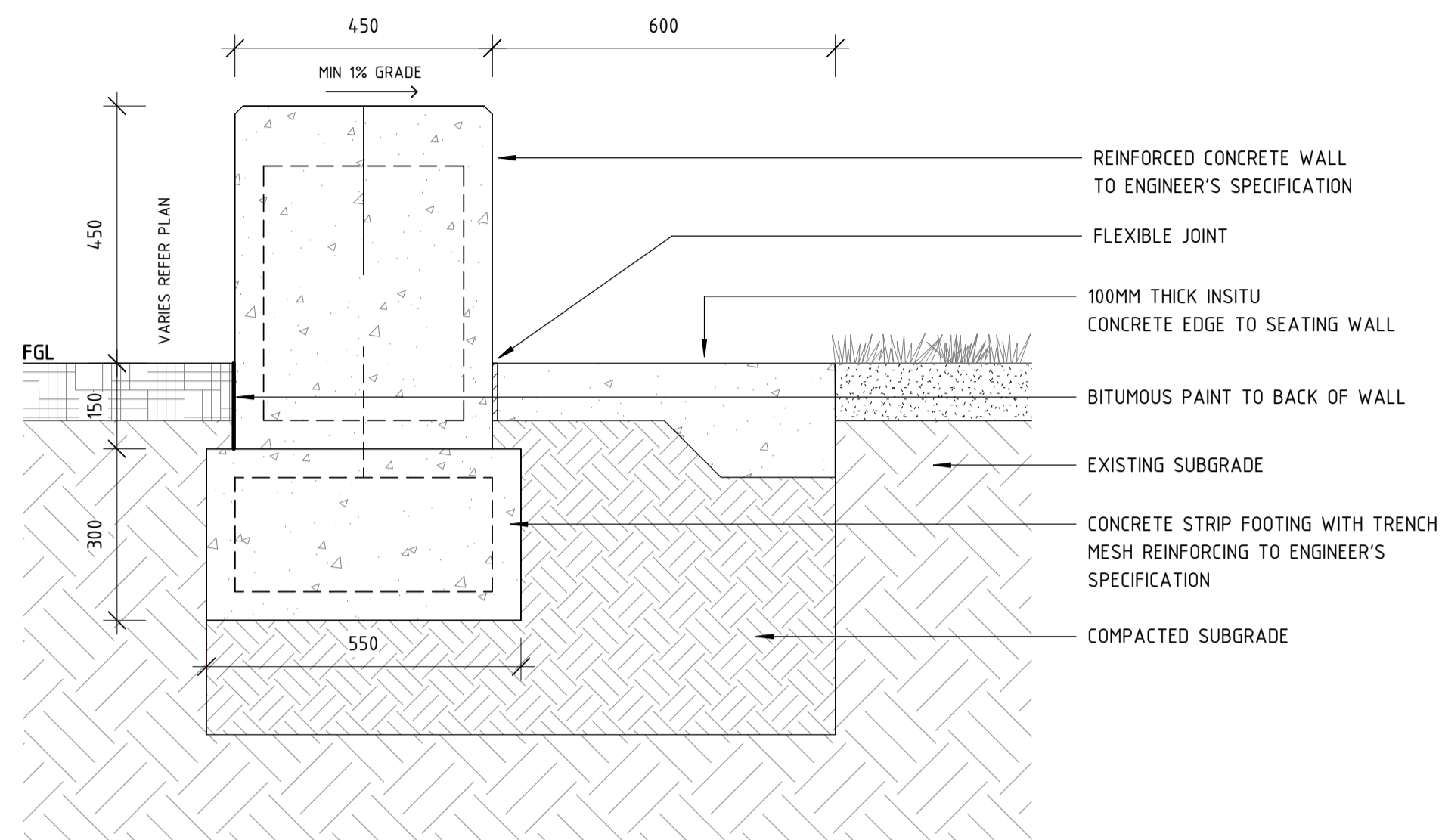
| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| A | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | | | | |

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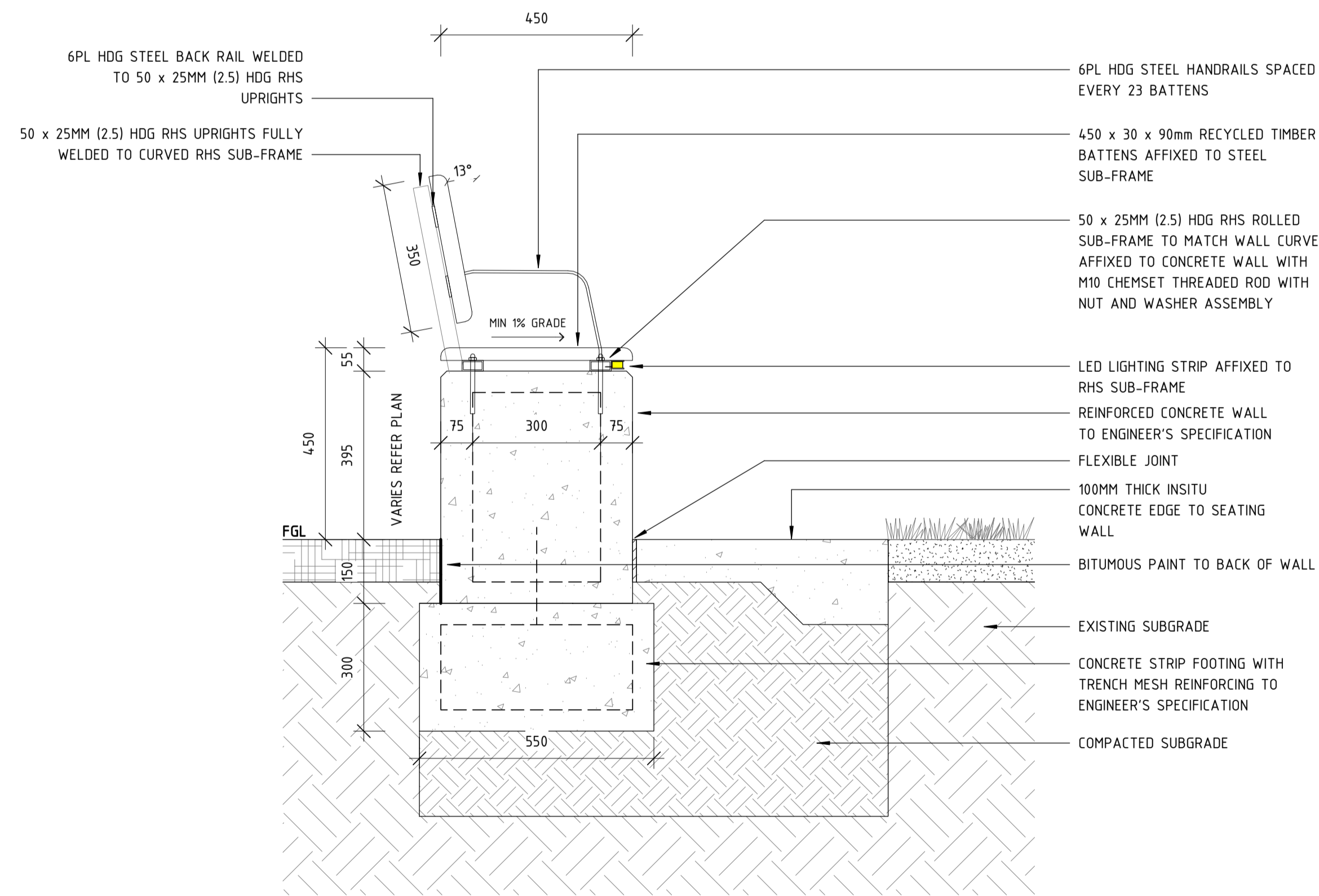
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| | | REFERENCES | SCALE 1 : 50 | DESIGNED D.Firns |
| | | | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | | | CHECKED M.Harris |
| | | | | APPROVED A.Eyres |
| | | | | DATE 02/06/23 |

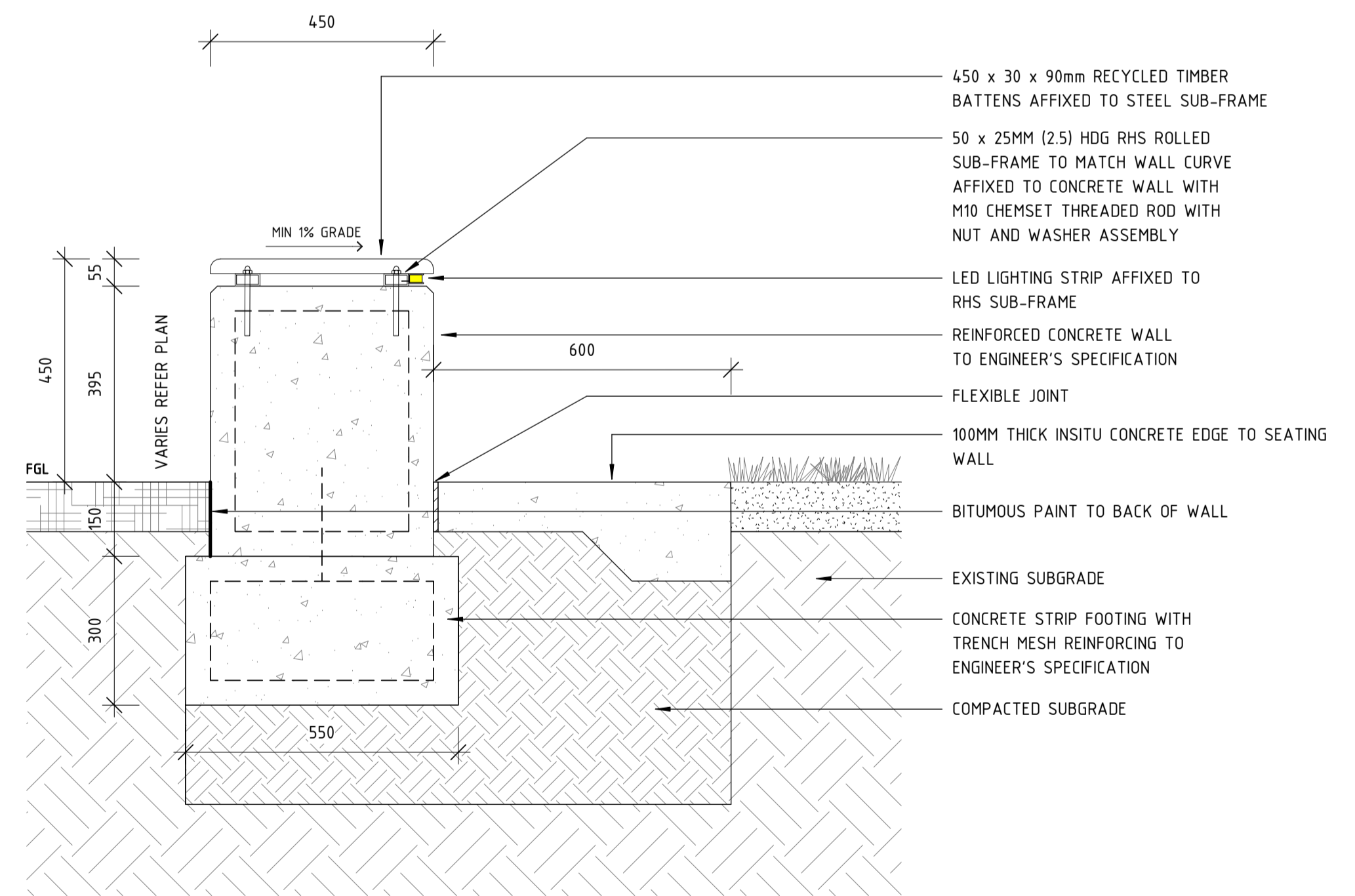
- NOTES:**
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 - TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.
 - SITE MEASURE PRIOR TO SHOP DRAWINGS.



1 YARNING CIRCLE - DETAIL 1
1 : 10



2 YARNING CIRCLE - DETAIL 2
1 : 10



3 YARNING CIRCLE - DETAIL 3
1 : 10

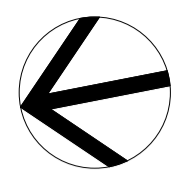
DETAILED DESIGN

| | | | | | | |
|-----------|----------|-----------------------------|------|---|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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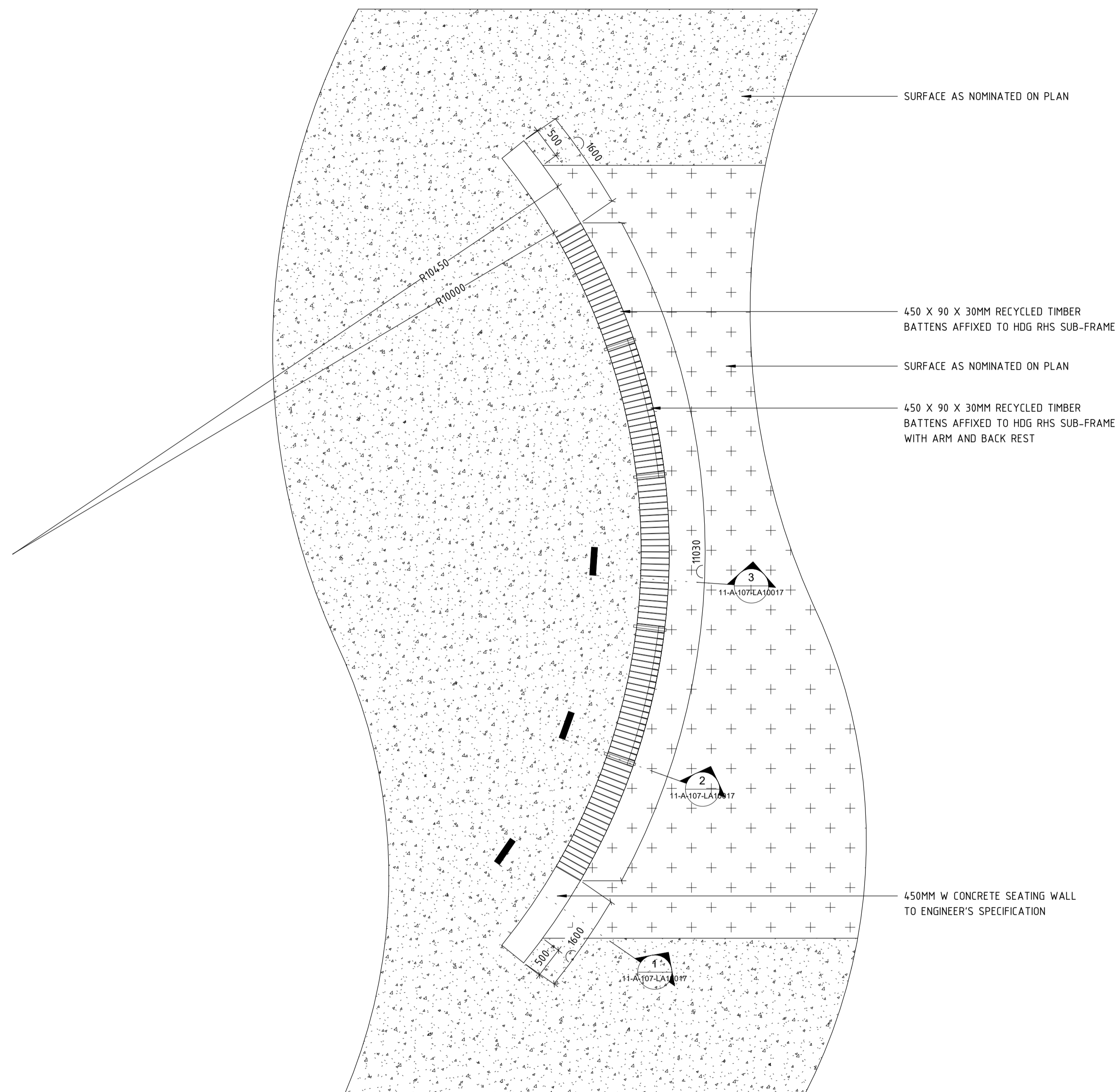


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| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

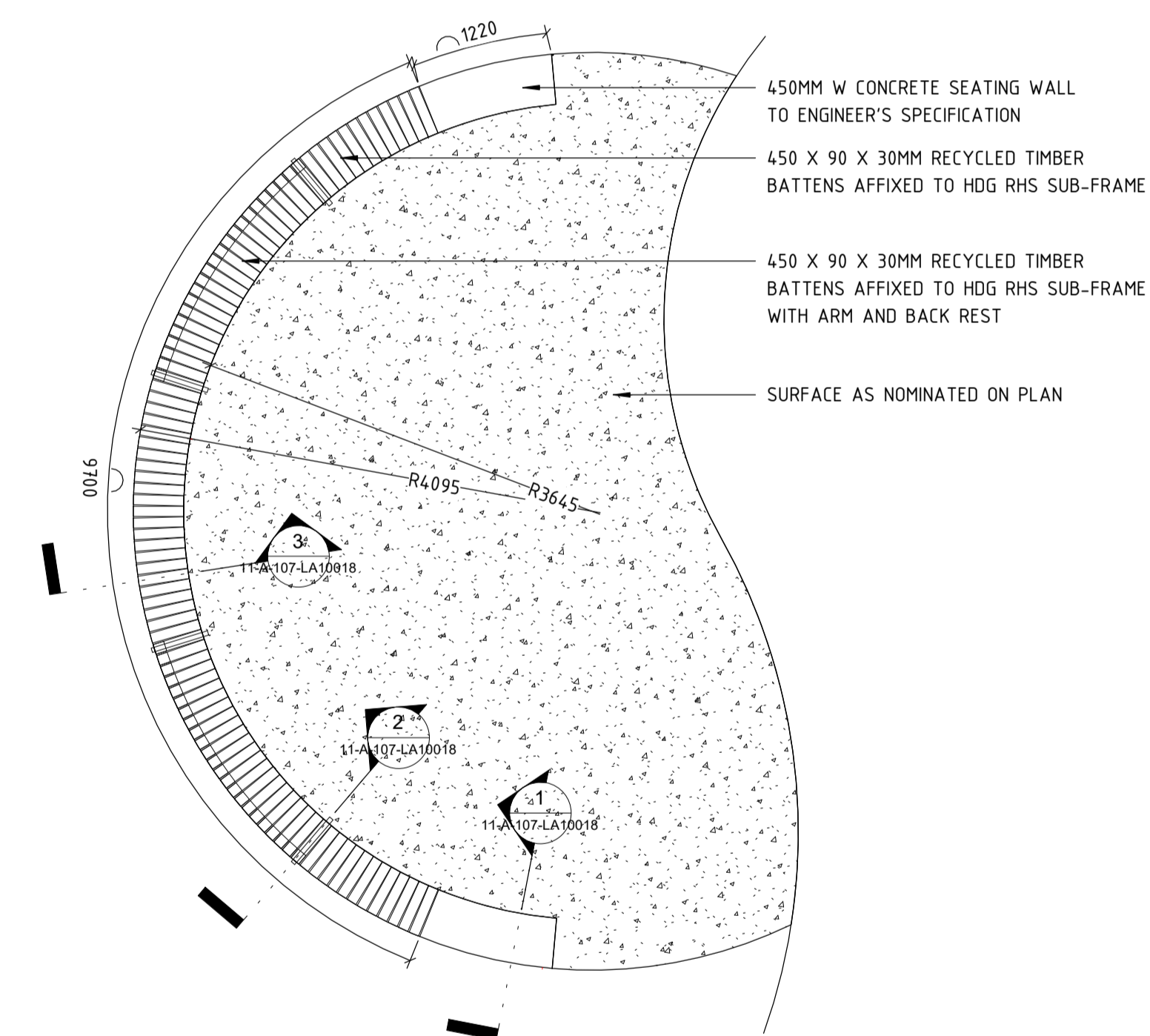
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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| HARDSCAPE DETAILS 05 | |
| PTA Drawing No: 11-A-107-LA10015 | Rev: A |



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 - SITE MEASURE PRIOR TO SHOP DRAWINGS.



1 CURVED SEAT WALL - DETAIL PLAN
1 : 50



2 WELCOME PLACE WEST - DETAIL PLAN
1 : 50

DETAILED DESIGN

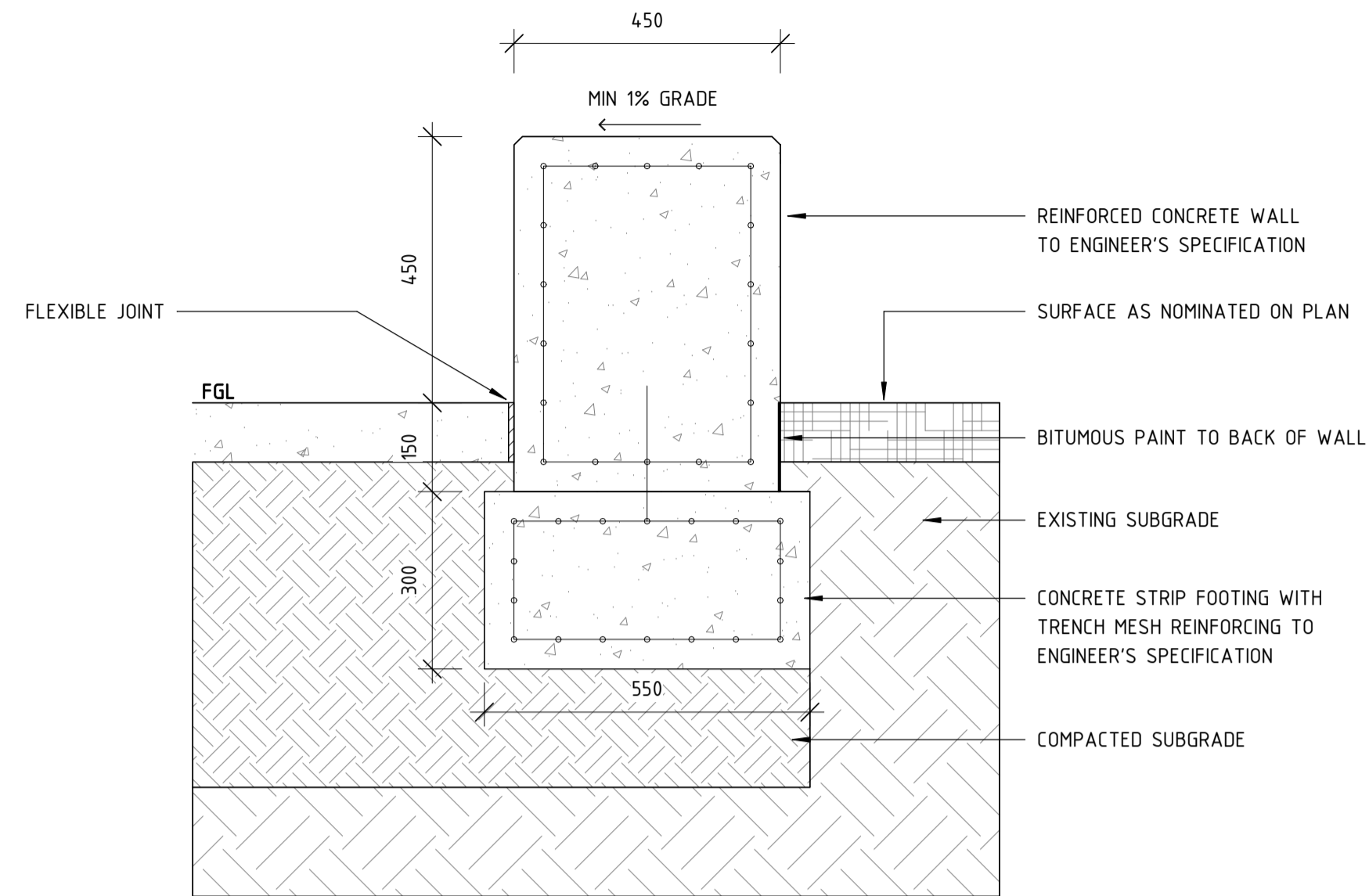
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| REV | DATE | ISSUED FOR IDD - PTA REVIEW | AMENDMENT | DSN | DRN | CHK | APP |
| A | 02.06.23 | | | D.F. | Y.D. | M.H. | A.E. |
| ORIG SIZE | | AT ORIGINAL PLOT SIZE | | This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose. | | | |
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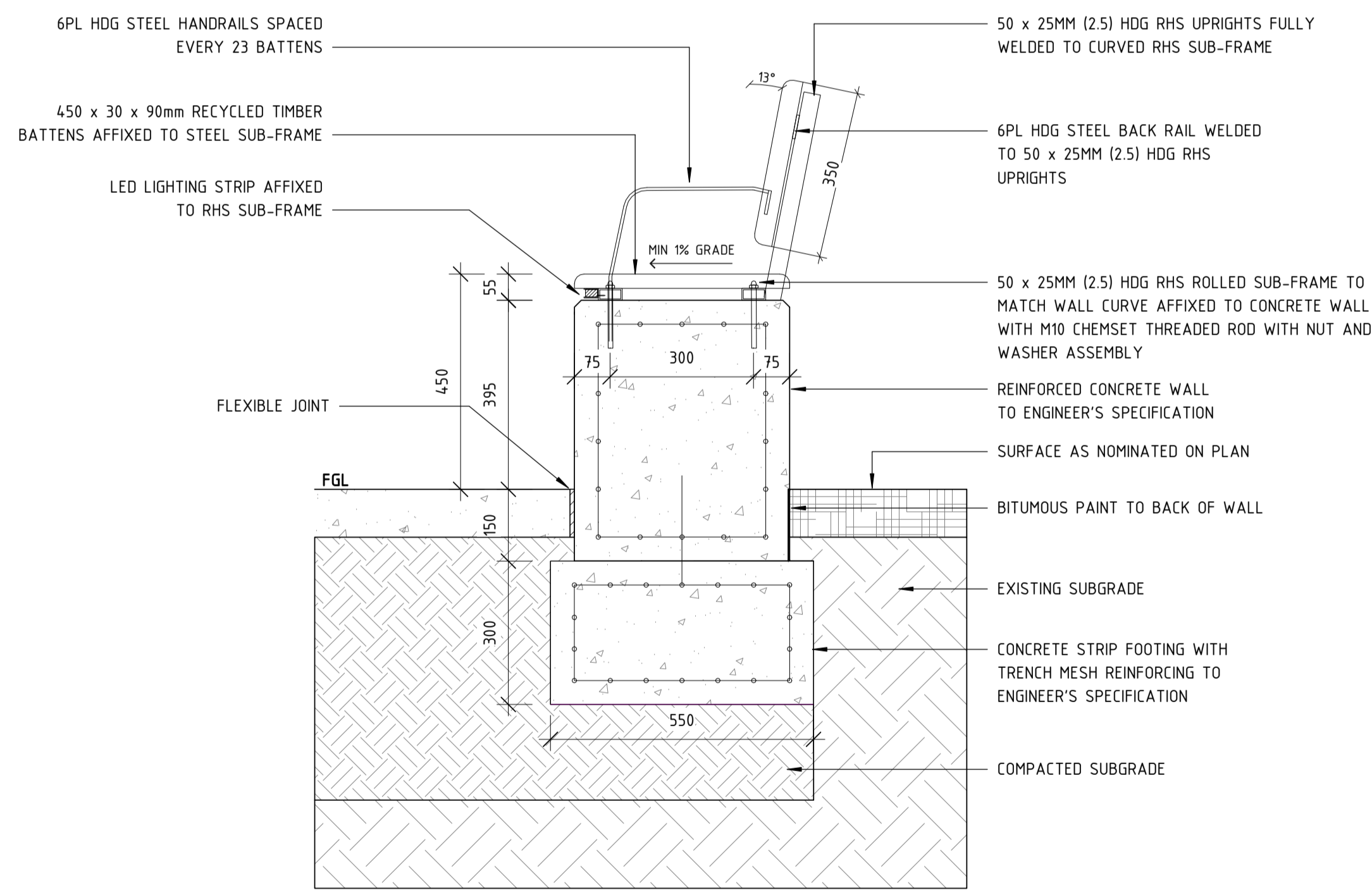
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| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

| | |
|----------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| HARDSCAPE DETAILS 06 | |
| PTA Drawing No: 11-A-107-LA10016 | Rev: A |

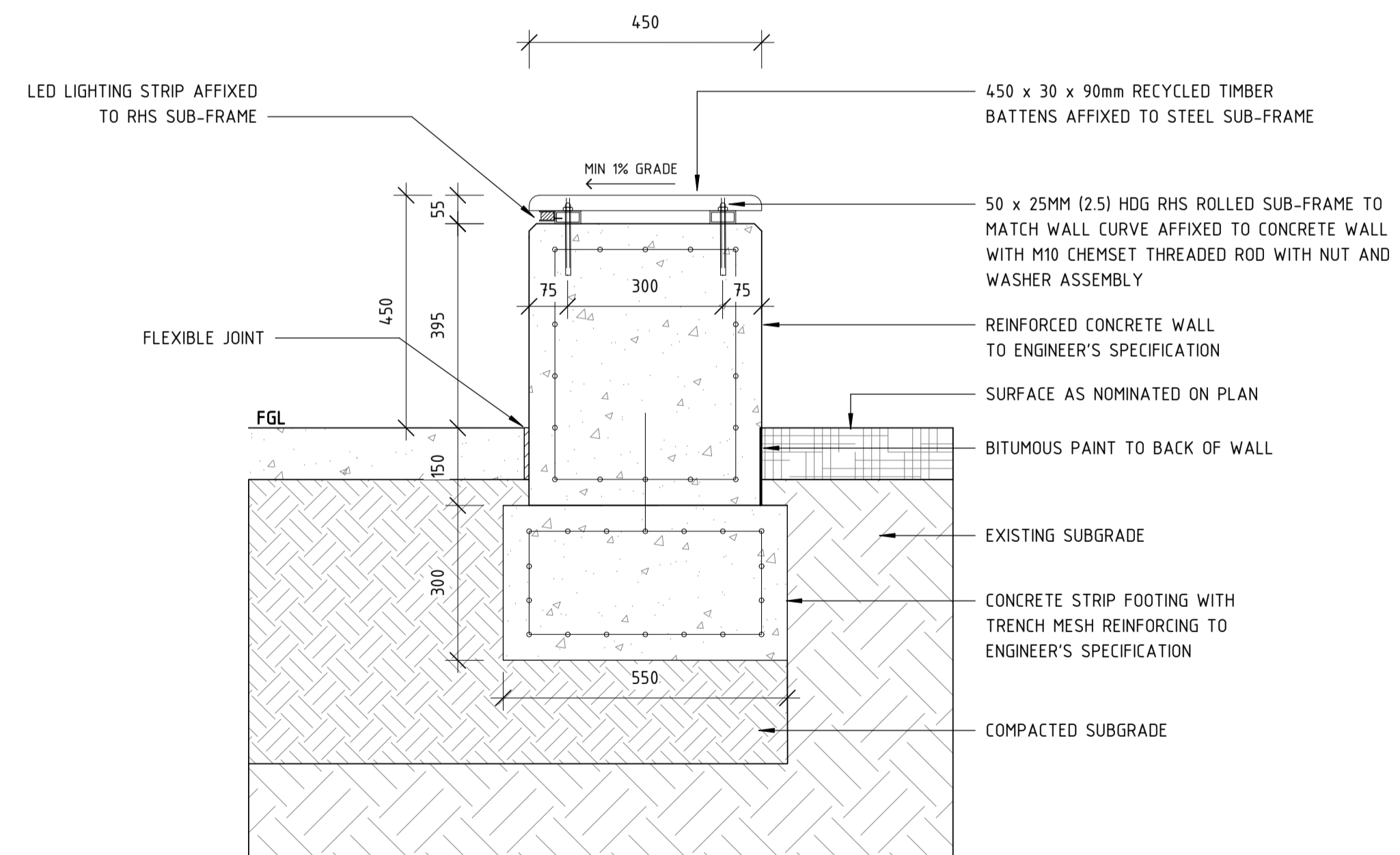
- NOTES:**
- SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION FOR REVIEW AND APPROVAL TO PROCEED.
 - TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.
 - SITE MEASURE PRIOR TO SHOP DRAWINGS.



1 CURVED SEAT WALL - DETAIL 1
1 : 10



2 CURVED SEAT WALL WITH CURVED TIMBER TOP (BACKREST)- DETAIL 2
1 : 10



3 CURVED SEAT WALL WITH CURVED TIMBER TOP (NO BACKREST) - DETAIL 3
1 : 10

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|-----|-----|-----|-----|
| A | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | | | | |

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| A | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | | | | |

SCALE: AS SHOWN
DUM: HORIZONTAL: PCG2020, VERTICAL: AHD71

DETAILED DESIGN

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

ARMADALE STATION PRECINCT

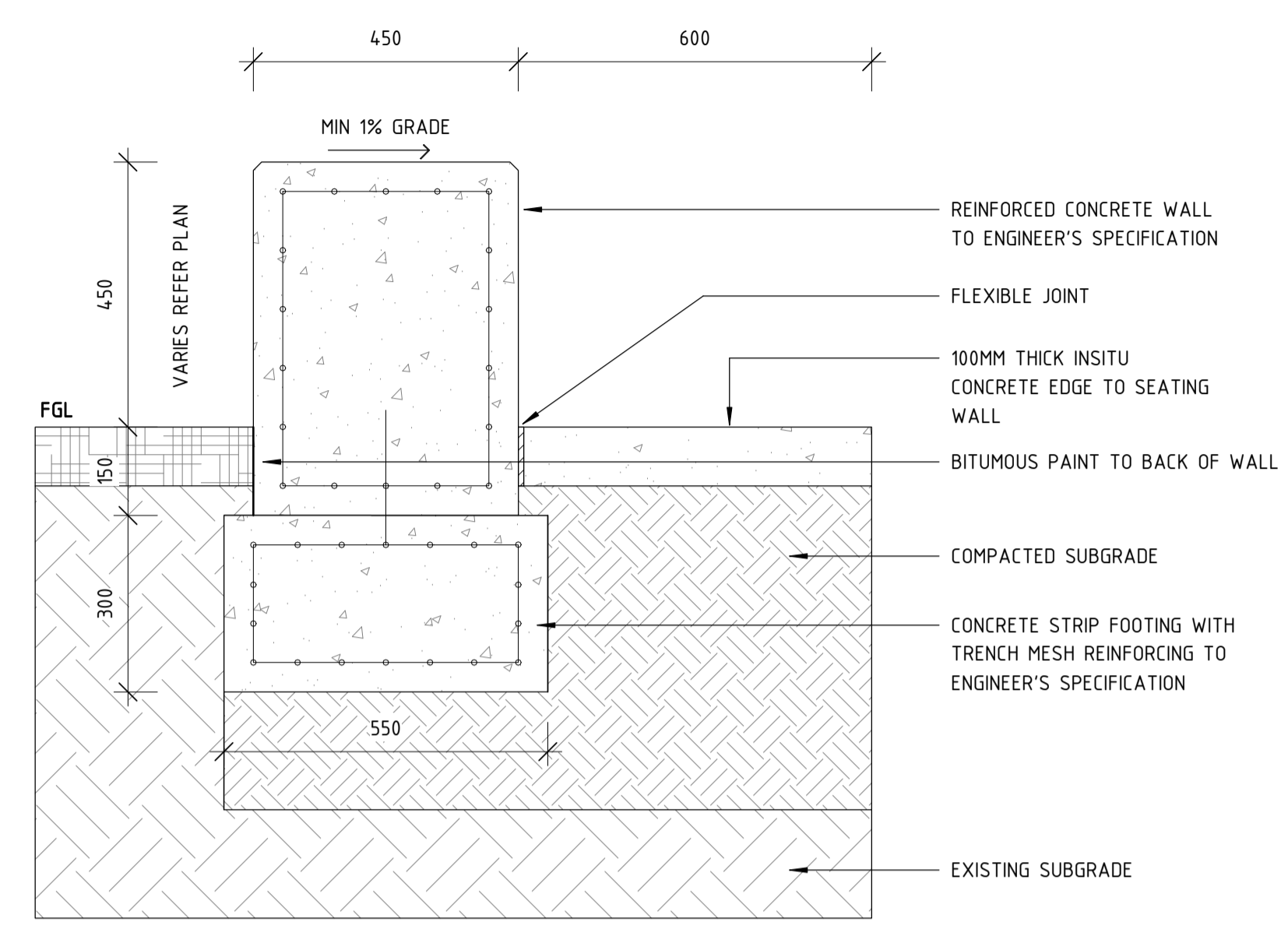
LANDSCAPE

HARDSCAPE DETAILS 07

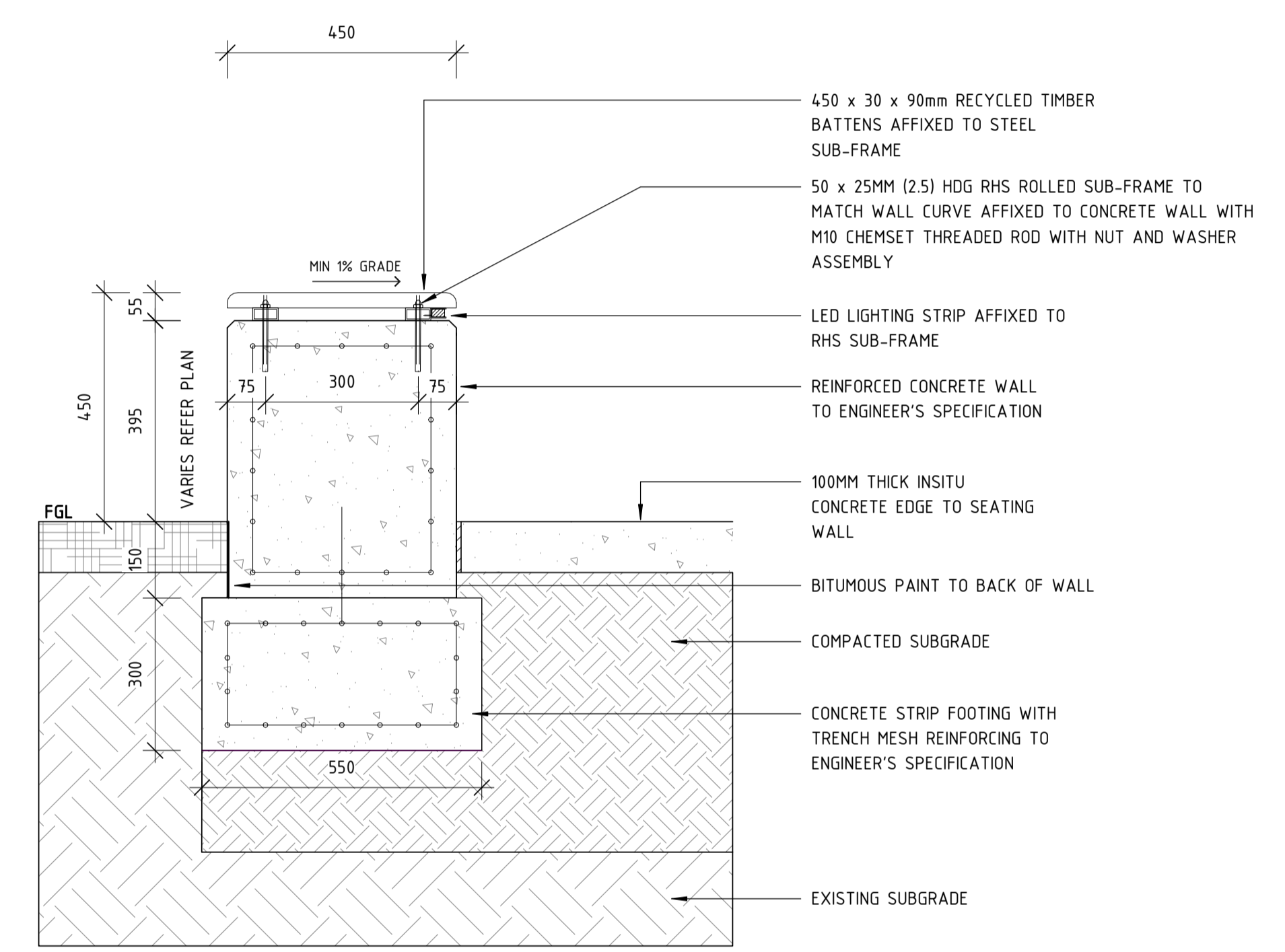
PTA Drawing No: 11-A-107-LA10017

Rev: A

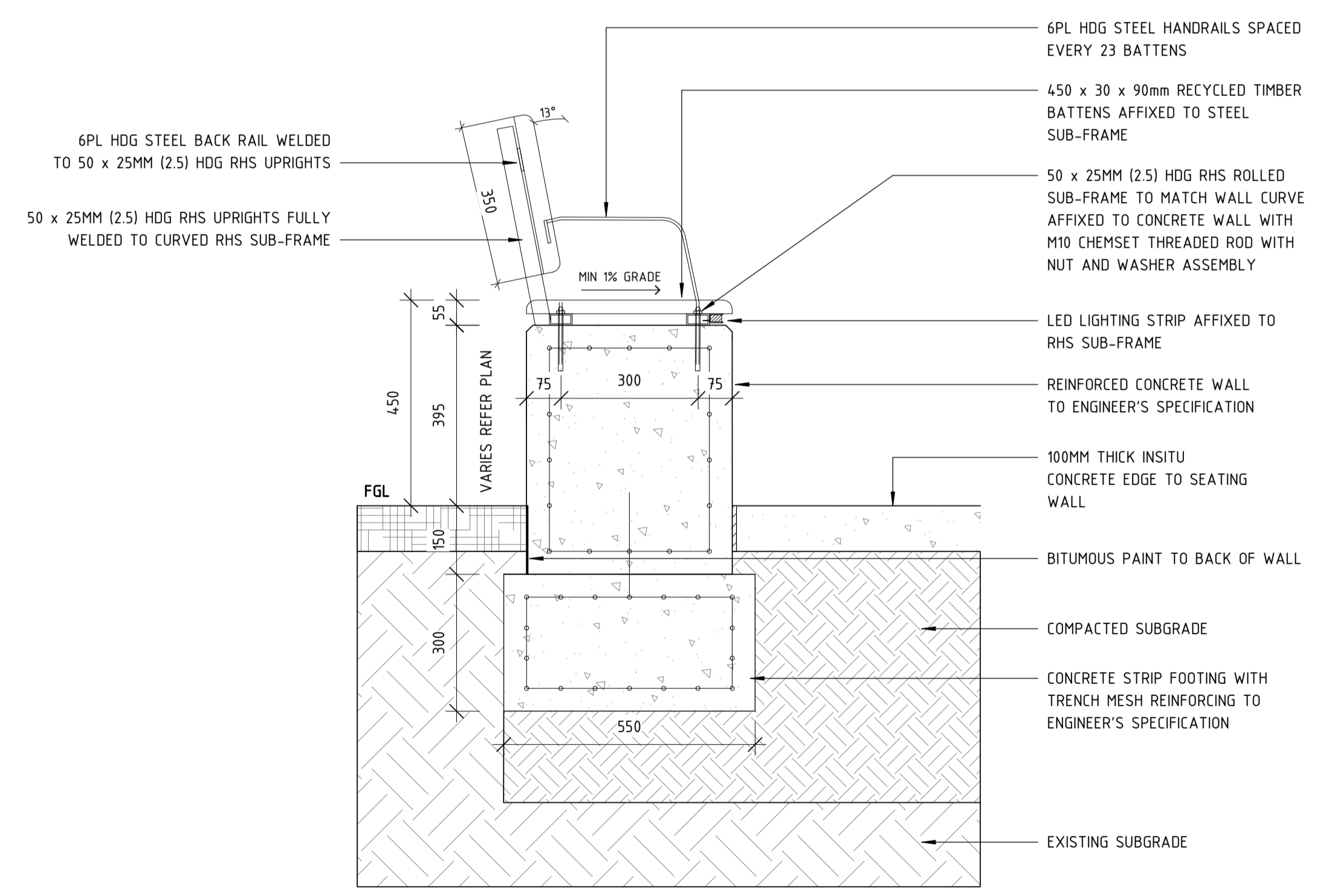
- NOTES:**
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 - TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.
 - SITE MEASURE PRIOR TO SHOP DRAWINGS.



1 WELCOME PLACE WEST - DETAIL 1
1 : 10



3 WELCOME PLACE WEST WITH CURVED TIMBER TOP (NO BACKREST) - DETAIL 3
1 : 10



2 WELCOME PLACE WEST WITH CURVED TIMBER TOP (BACKREST) - DETAIL 2
1 : 10

| | | | | | | |
|-----------|------------------------|-----------------------------|---|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | | | | |
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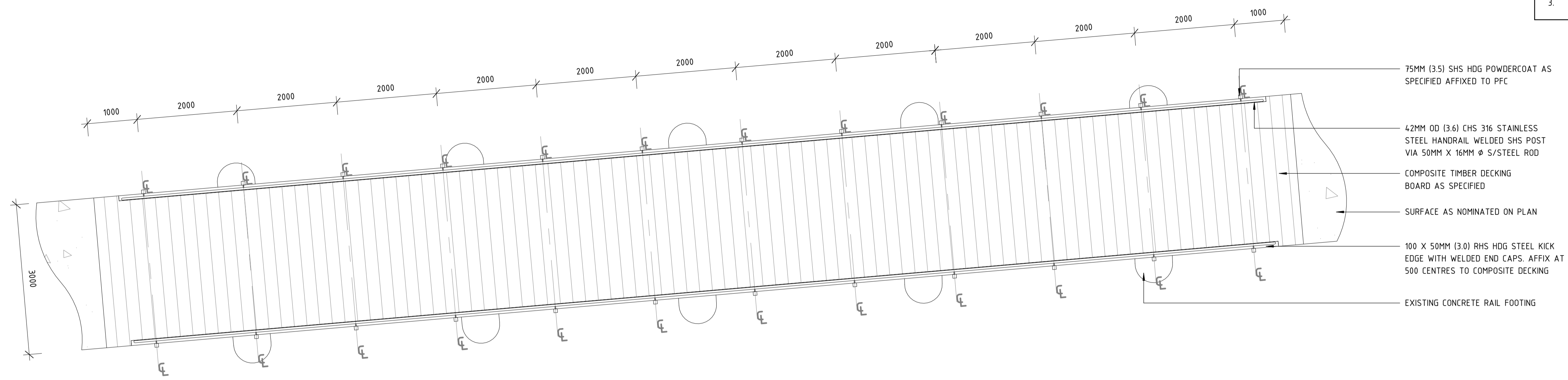
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| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

DETAILED DESIGN

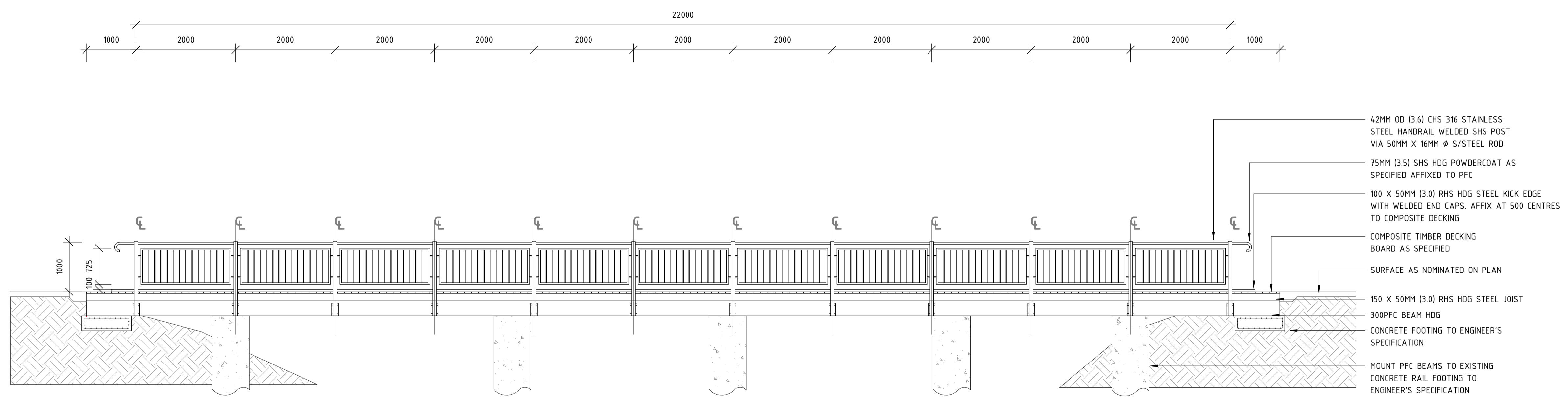
BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
HARDSCAPE DETAILS 08
 PTA Drawing No: 11-A-107-LA10018

Rev: A

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1 NERRIGEN BOARDWALK - DETAIL PLAN
1 : 50



2 NERRIGEN BOARDWALK - TYPICAL SECTION
1 : 50

DETAILED DESIGN

| | | |
|----------|------------|---|
| | | BYFORD RAIL EXTENSION ARMADALE STATION PRECINCT LANDSCAPE HARDSCAPE DETAILS 10 PTA Drawing No: 11-A-107-LA10020 |
| DESIGNED | D.Firns | Rev: |
| DRAWN | Y.Demissie | |
| CHECKED | M.Harris | |
| APPROVED | A.Eyres | |
| DATE | 02/06/23 | |

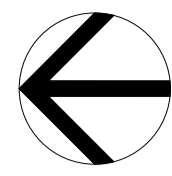
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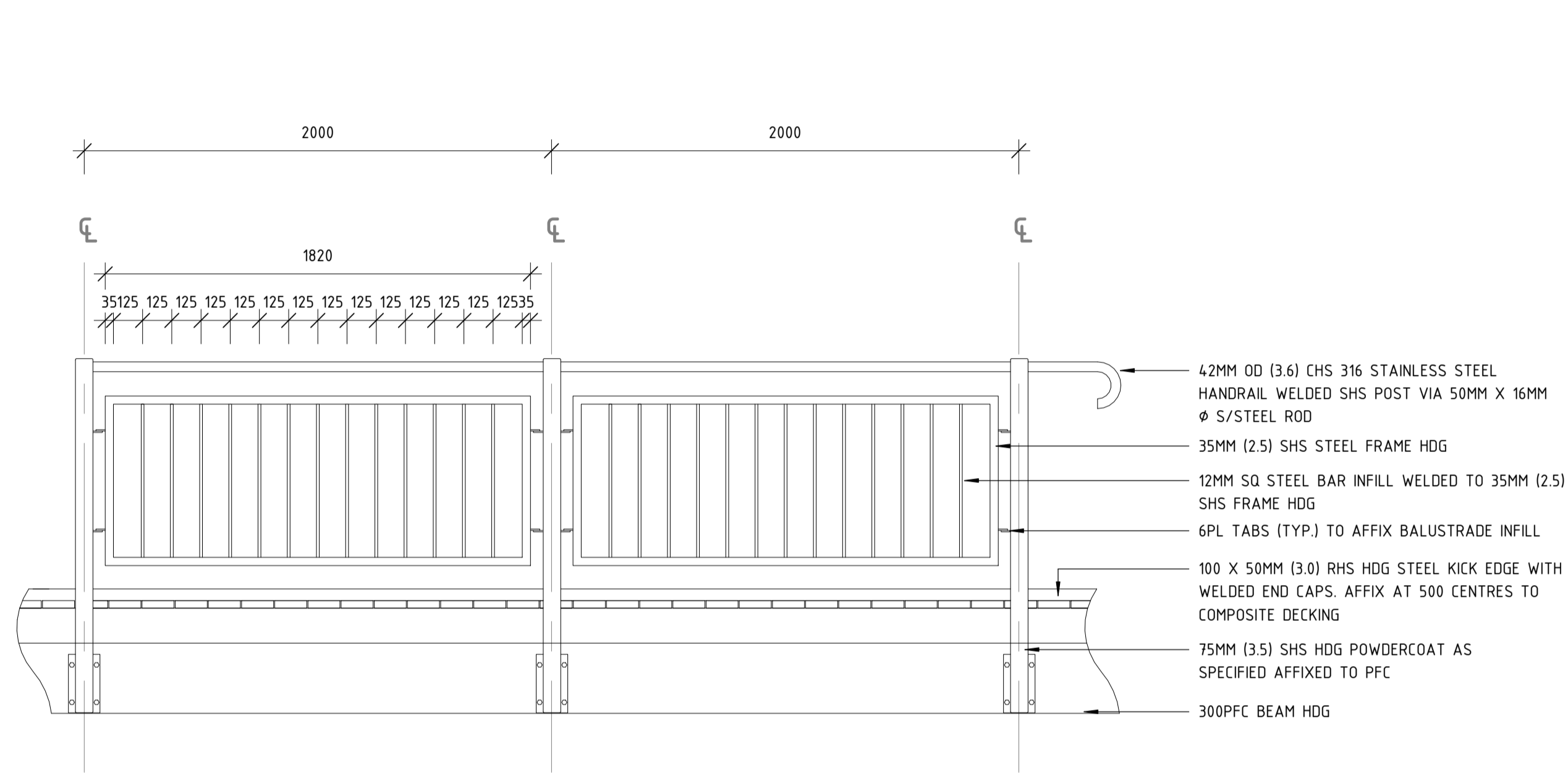


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| | DATUM |
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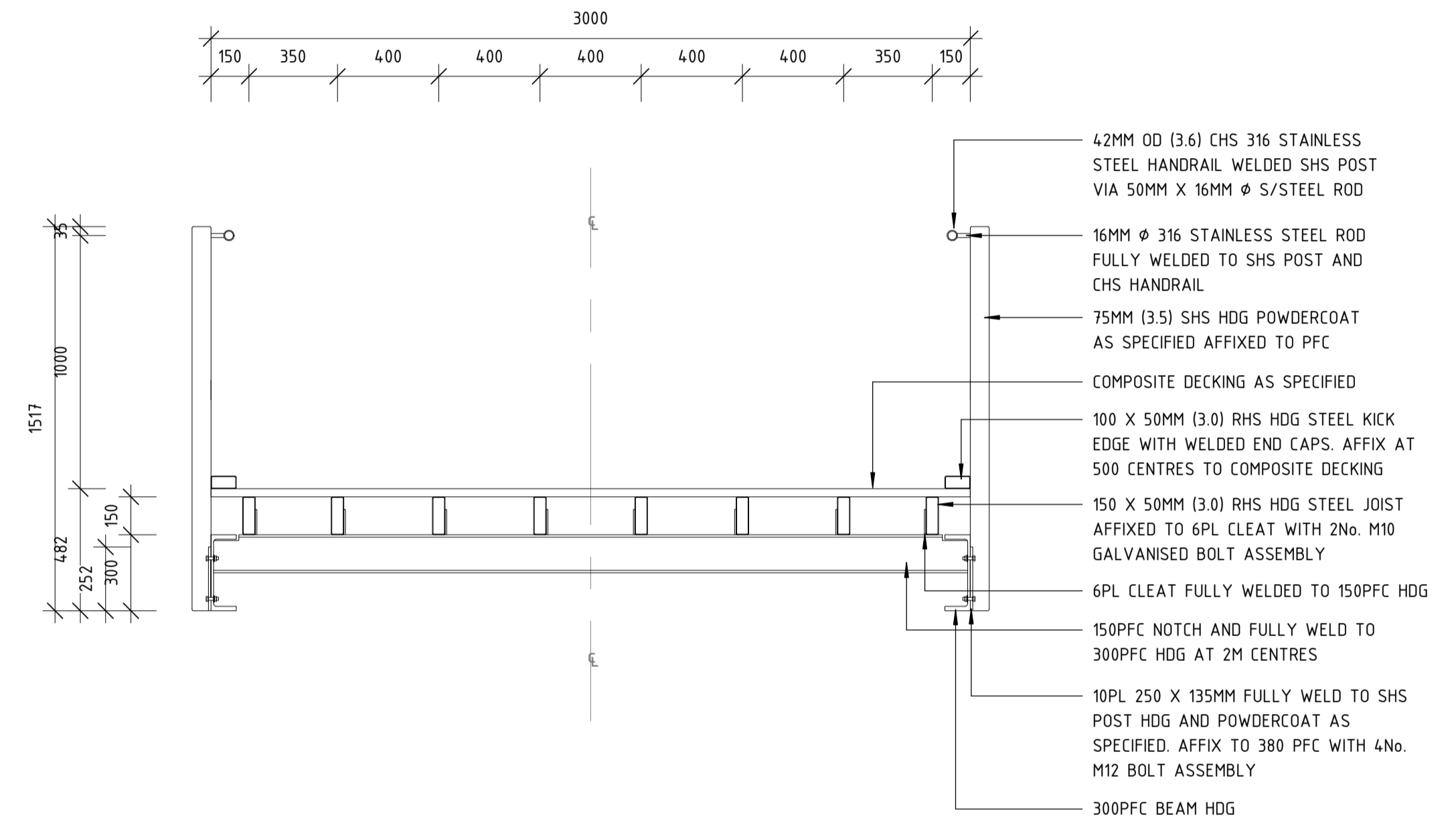


NOTES:

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2. TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.
3. SITE MEASURE PRIOR TO SHOP DRAWINGS.



1 NERRIGEN BOARDWALK BALUSTRADE INFILL - TYPICAL SECTION
1 : 20



2 NERRIGEN BOARDWALK DETAIL - TYPICAL SECTION
1 : 20

DETAILED DESIGN

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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AT ORIGINAL PLOT SIZE

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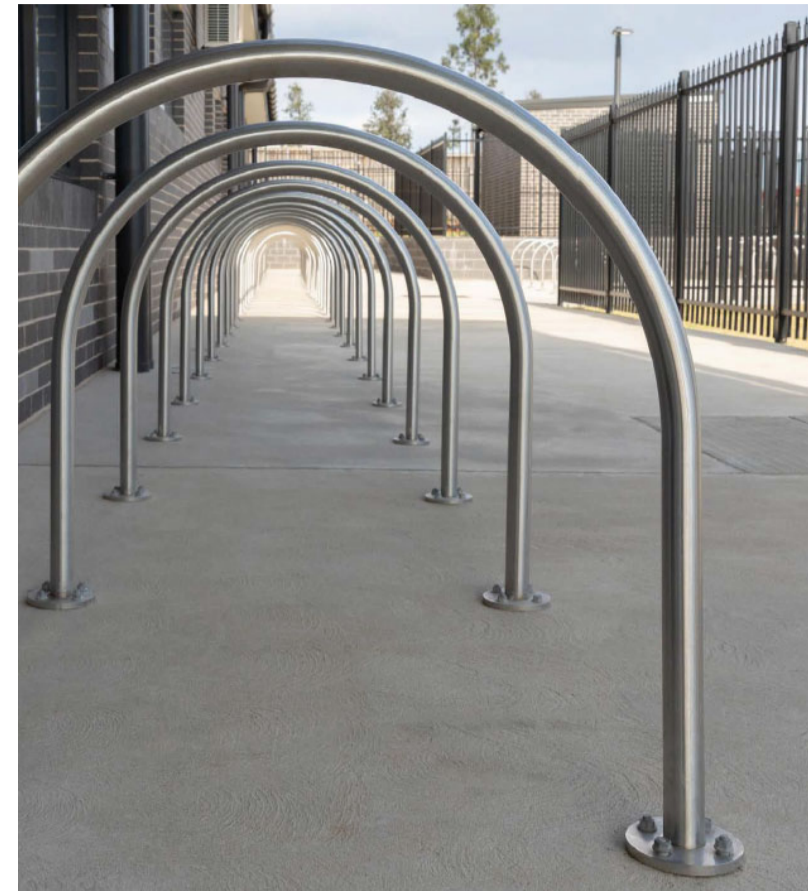


Contractor No:R30-UDL-DWG-LA-230-0214.3 Rev: A

| REFERENCES | SCALE |
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| | DATUM |
| | HORIZONTAL: PCG2020 |
| | VERTICAL: AHD71 |

| | |
|----------|------------|
| DESIGNED | D.Firns |
| DRAWN | Y.Demissie |
| CHECKED | M.Harris |
| APPROVED | A.Eyres |
| DATE | 02/06/23 |

| | |
|----------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| HARDSCAPE DETAILS 11 | |
| PTA Drawing No: 11-A-107-LA10021 | Rev: A |



1 BIKE HOOP (F1-01A)
1 : 10

PRODUCT: BIKE RACK TO MEET AS. 2890 - BST03
SUPPLIER: STREET FURNITURE AUSTRALIA
MODEL: 316 GRADE STAINLESS STEEL SEMI-HOOP BICYCLE RACK
NUMBER OF: 10
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.



2 BIN (F2-01A)
1 : 10

PRODUCT: DUAL RUBBISH & RECYCLING BIN
SUPPLIER: DRAFFIN STREET FURNITURE
MODEL: 800 SERIES BIN SURROUNDS WITH SLOPED COVER - 240LT
NUMBER OF: 5
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.



3 DRINK FOUNTAIN (F3-01A)
1 : 10

PRODUCT: DRINK FOUNTAIN WITH DOG BUBBLER - (DF4-DB)
SUPPLIER: STREET FURNITURE AUSTRALIA
MODEL: STAINLESS STEEL
NUMBER OF: 1
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.



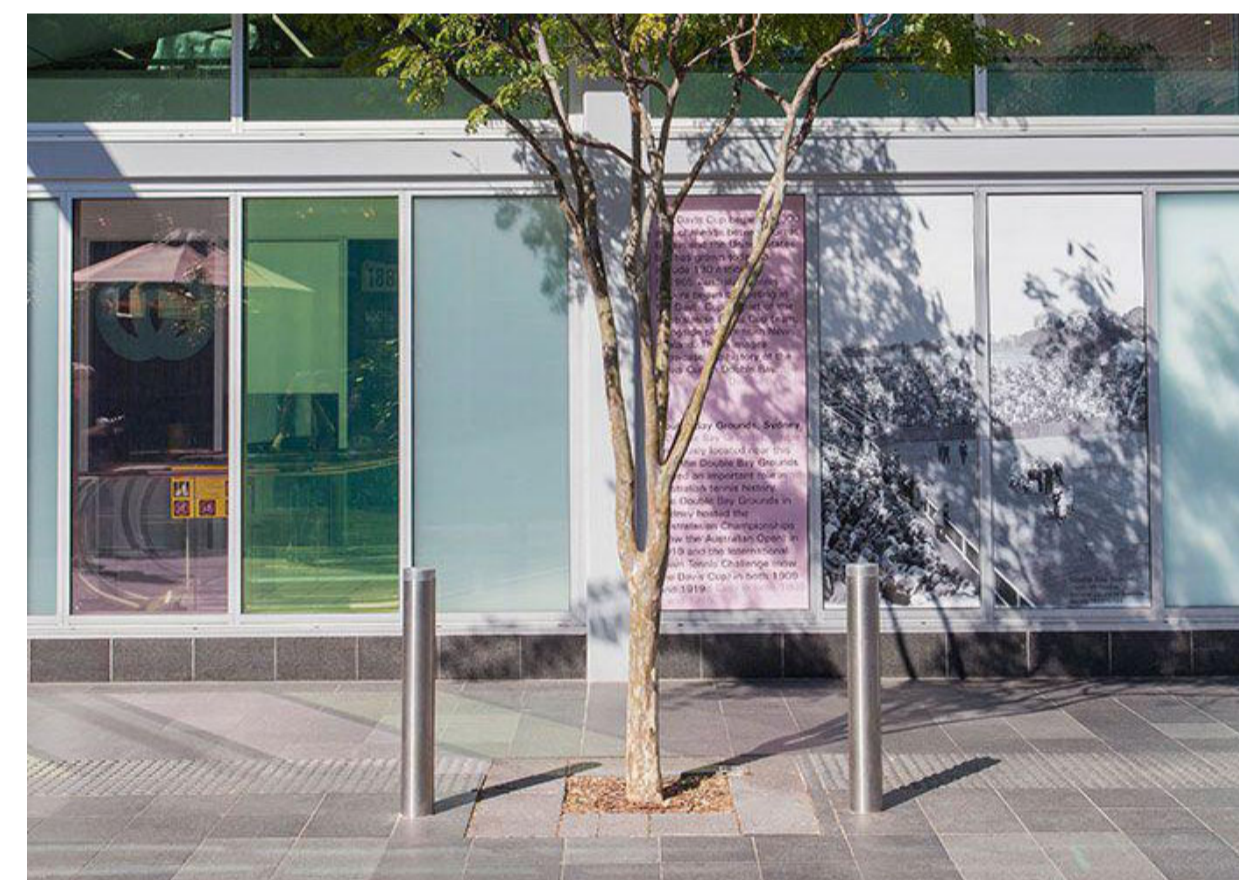
4 BENCH SEAT (F4-01A)
1 : 10

PRODUCT: STANDALONE ARIA BENCH SEAT
SUPPLIER: STREET FURNITURE AUSTRALIA
MODEL: SPOTTED GUM TIMBER WITH STEEL
NUMBER OF: 11
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.



5 BENCH SEAT TOPPER (F4-01B)
1 : 10

PRODUCT: ARIA 3-PERSON BENCH SEAT WITH BACK AND ARM REST
SUPPLIER: STREET FURNITURE AUSTRALIA
MODEL: SPOTTED GUM TIMBER AND STEEL
NUMBER OF: 4
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.



6 BOLLARDS - FIXED (F7-01A)
1 : 10

PRODUCT: FLAT TOP STEEL BOLLARD (FIXED) - (B5-F FLAT) - 150MM x 810MM
SUPPLIER: STREET FURNITURE AUSTRALIA
MODEL: STAINLESS STEEL - AS SUPPLIED
NUMBER OF: 8
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.



7 BOLLARDS - REMOVABLE (F7-01B)
1 : 10

PRODUCT: FLAT TOP STEEL BOLLARD (REMOVABLE) - (B5-F FLAT) - 150MM x 810MM
SUPPLIER: STREET FURNITURE AUSTRALIA
MODEL: STAINLESS STEEL - AS SUPPLIED
NUMBER OF: 3
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.



8 BENCH SEAT FLAT (F4-01D)
1 : 10

PRODUCT: STANDALONE ARIA BENCH SEAT (FLAT)
SUPPLIER: STREET FURNITURE AUSTRALIA
MODEL: SPOTTED GUM TIMBER WITH STEEL
NUMBER OF: 2
INSTALL TO MANUFACTURERS SPECIFICATION.
TO BE SURFACE FIXED.

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| B | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |



| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
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| B | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

| REFERENCES | | SCALE | DESIGNED | BYFORD RAIL EXTENSION | |
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| | | AS SHOWN | D.Firns | ARMADALE STATION PRECINCT | |
| | | | Y.Demissie | LANDSCAPE | |
| | | | M.Harris | FURNITURE DETAILS 01 | |
| | | | A.Eyres | PTA Drawing No: 11-A-107-LA10031 | |
| | | | DATE: 02/06/23 | Rev: B | |



1 BENCH SEAT SYSTEM - WITH FLAT BENCH (F4-01C)
1 : 10

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| A | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

ORIG SIZE **A1**

AT ORIGINAL PLOT SIZE

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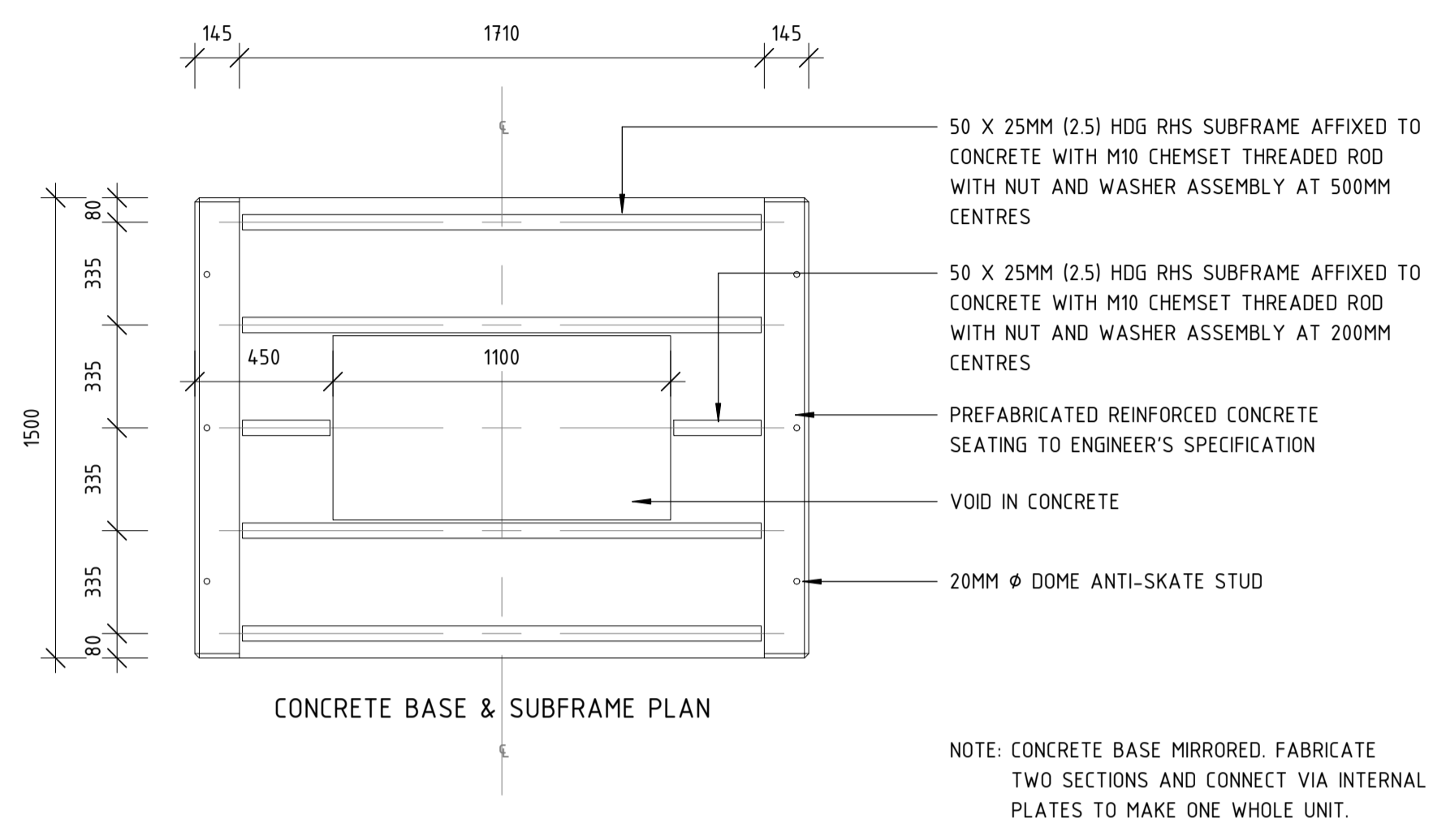
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| REFERENCES | SCALE | DESIGNED |
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| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

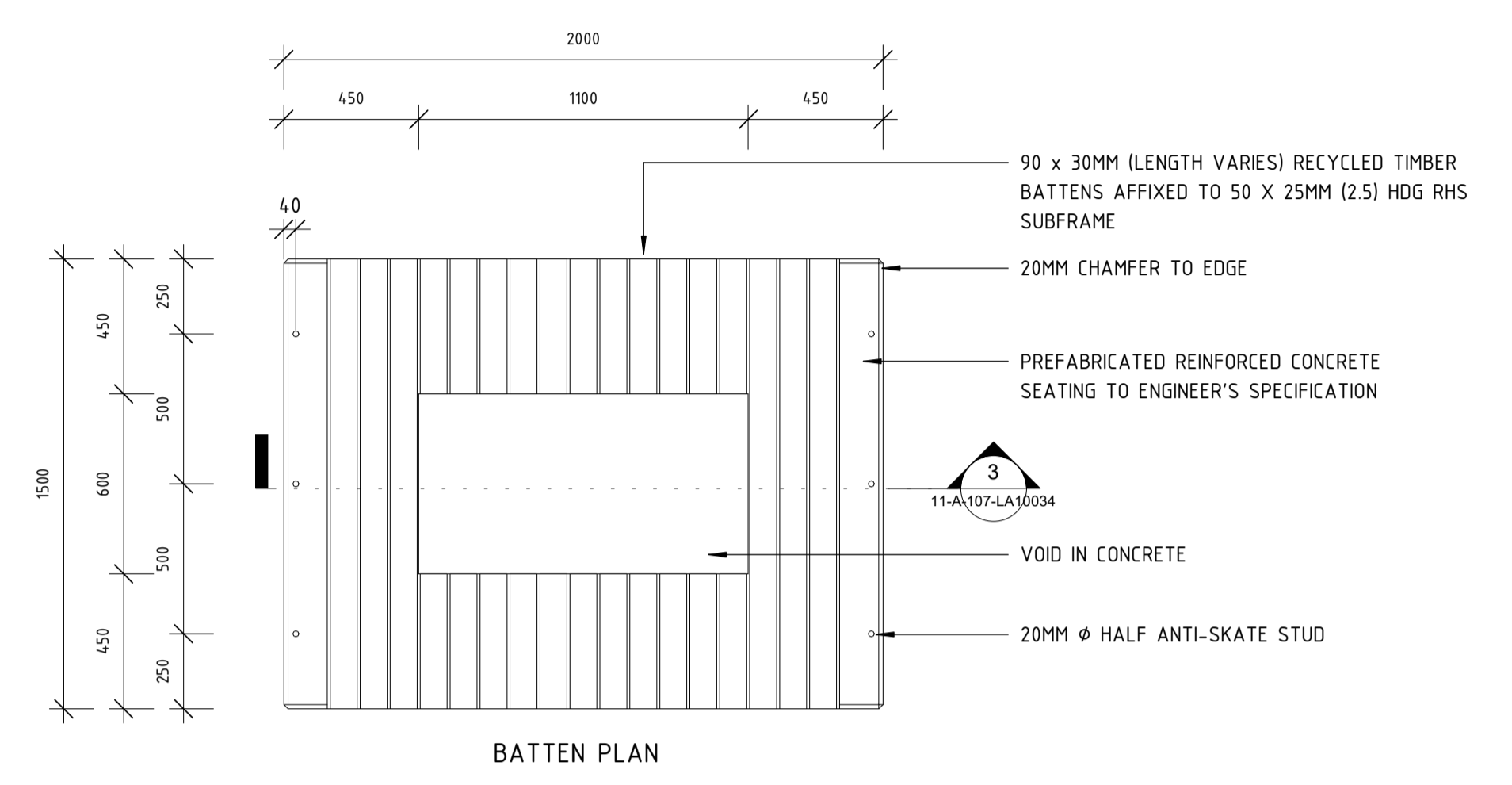
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| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| FURNITURE DETAILS 03 | |
| PTA Drawing No: 11-A-107-LA10033 | Rev: A |

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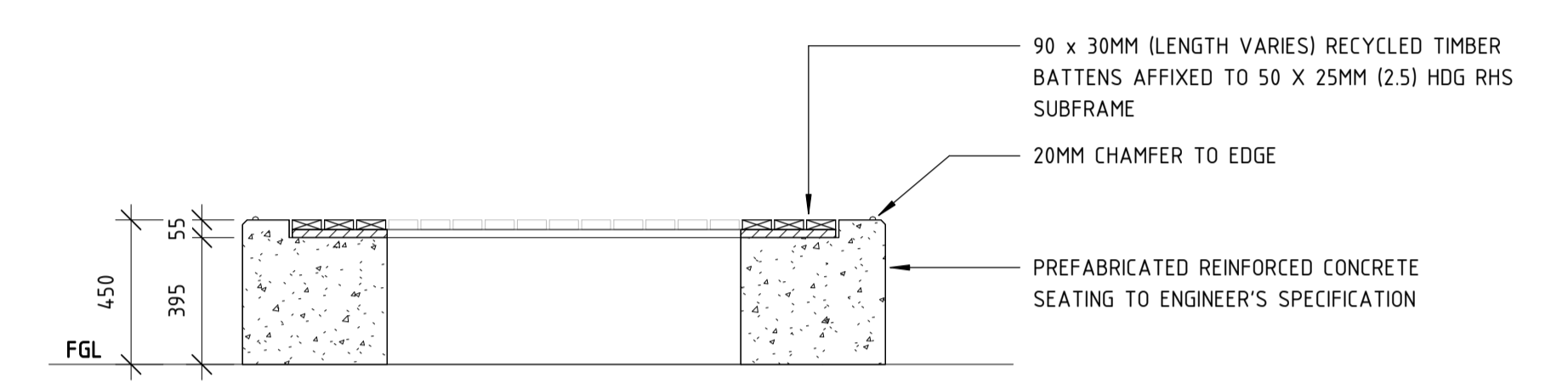
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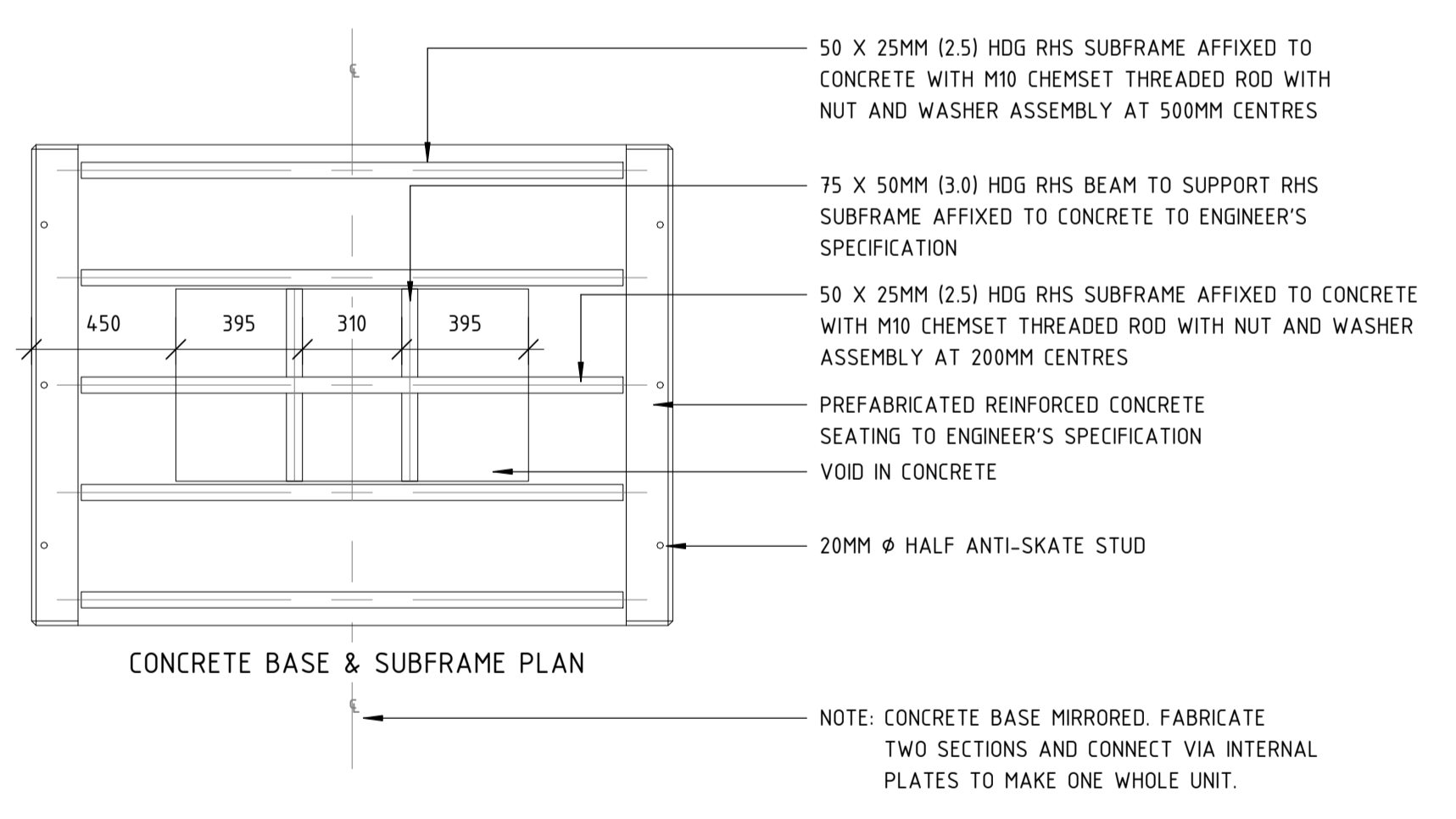
1 SEAT PLATFORM WITH VOID (BASE & SUBFRAME)
1 : 20



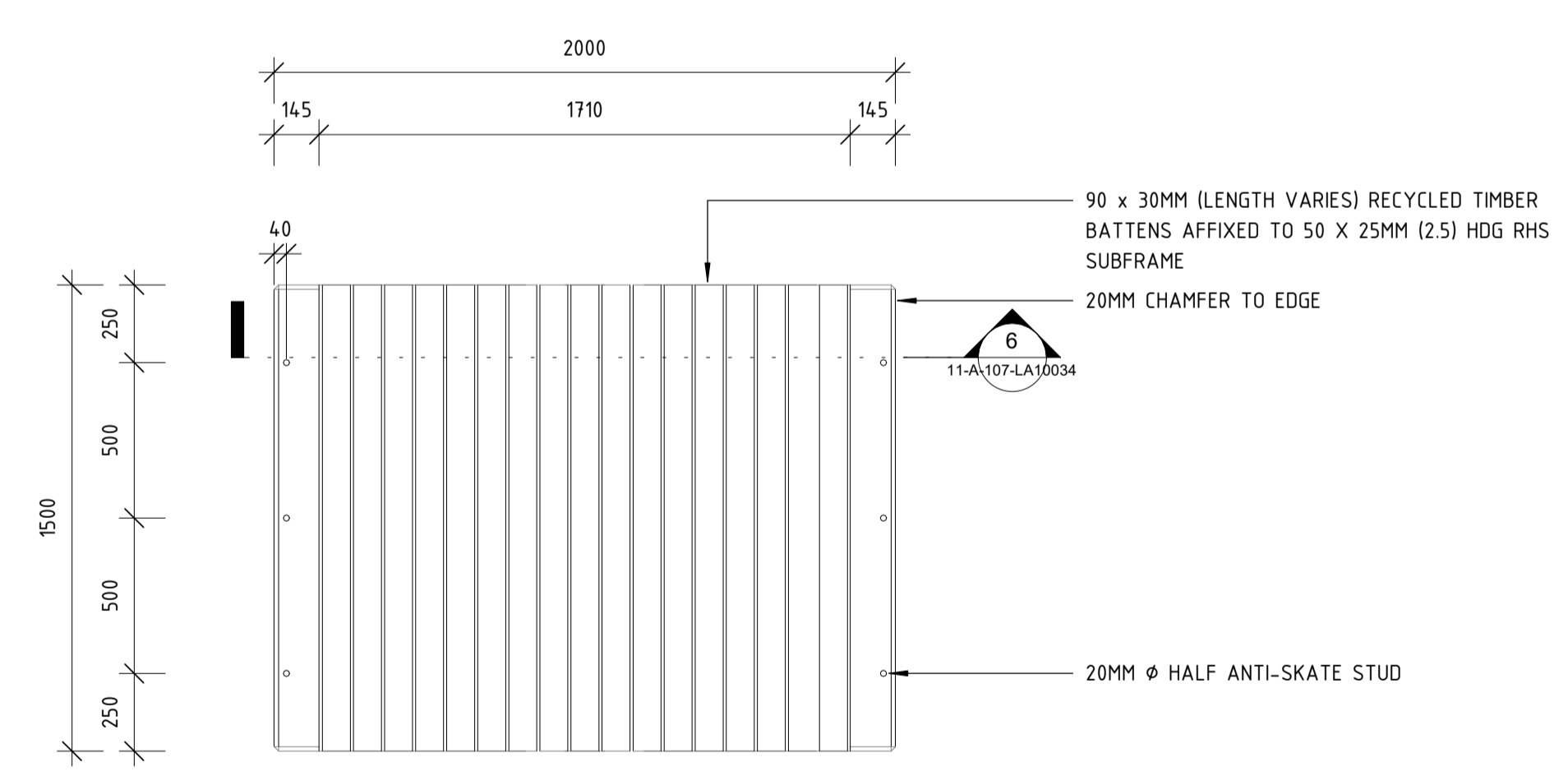
2 SEAT PLATFORM WITH VOID (BATTEN PLAN)
1 : 20



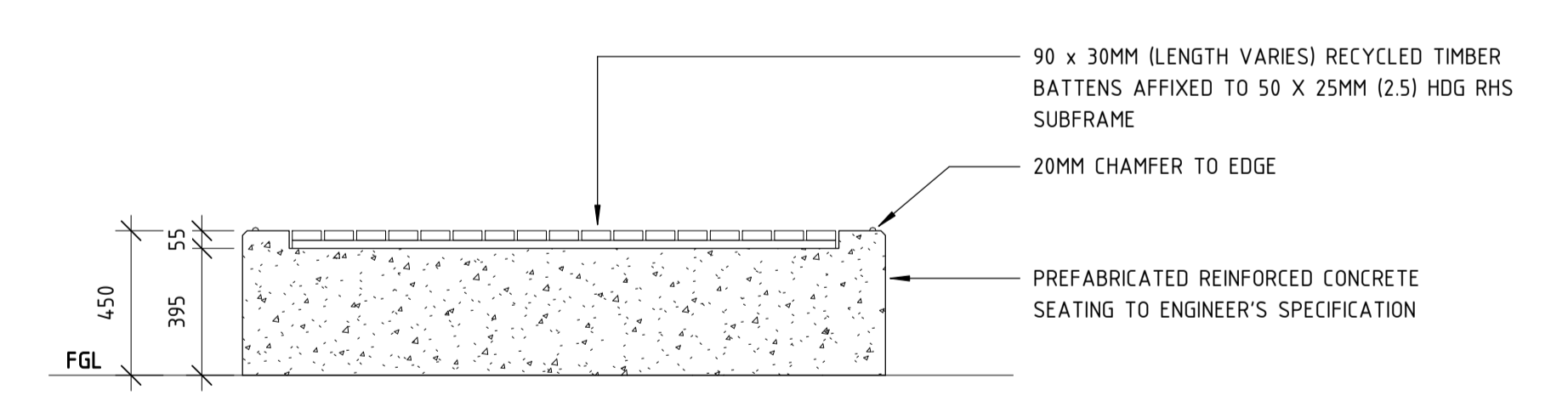
3 SEAT PLATFORM WITH VOID - DETAIL 3
1 : 20



4 SEAT PLATFORM (BASE & SUBFRAME)
1 : 20



5 SEAT PLATFORM (BATTEN PLAN)
1 : 20



6 SEAT PLATFORM - DETAIL 6
1 : 20

| | | | | | | |
|--|----------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
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| <p>ORIG SIZE: 0 10 20 30 40 50 100mm</p> <p>AT ORIGINAL PLOT SIZE</p> <p>This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.</p> | | | | | | |



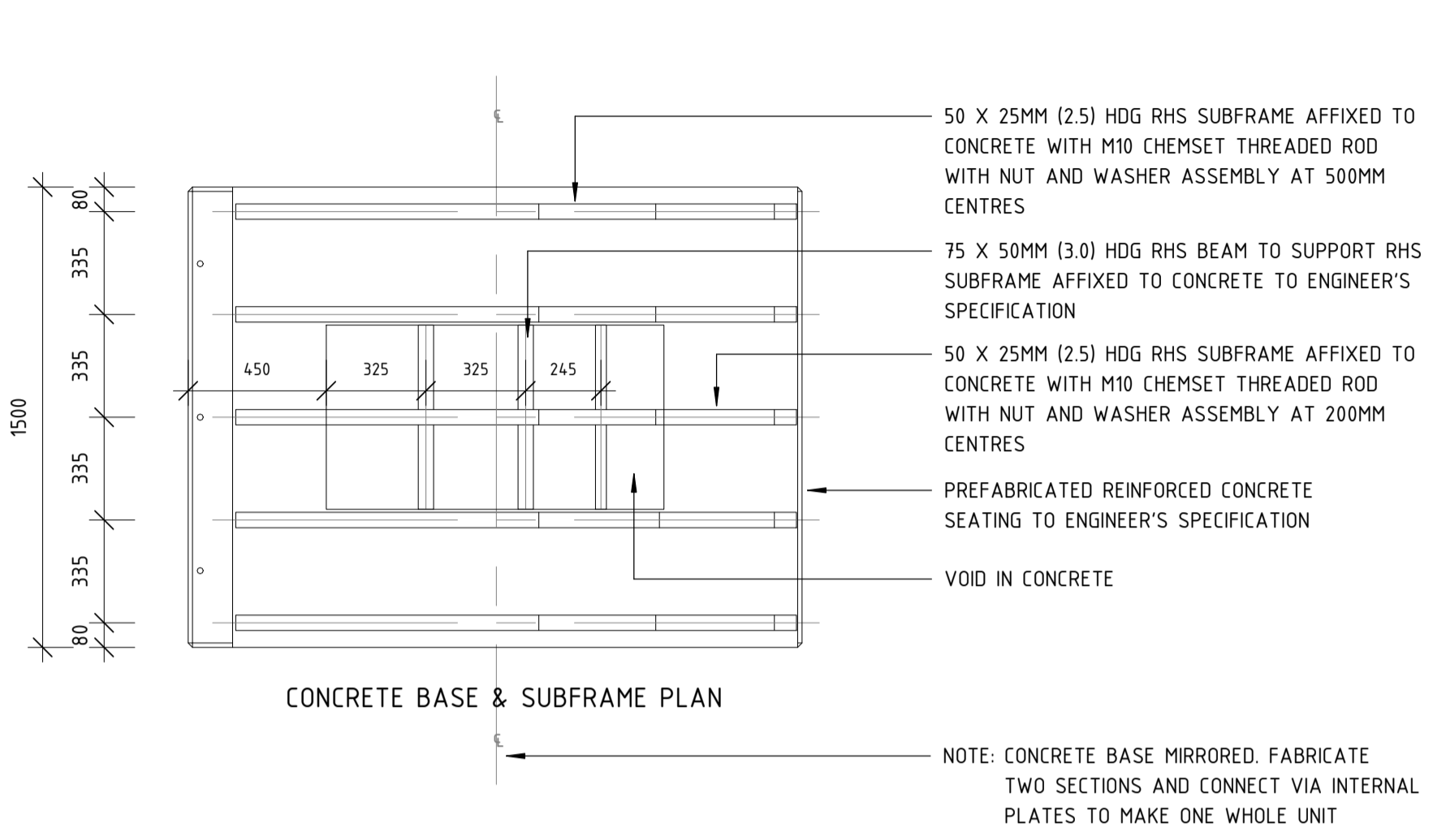
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| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

DETAILED DESIGN

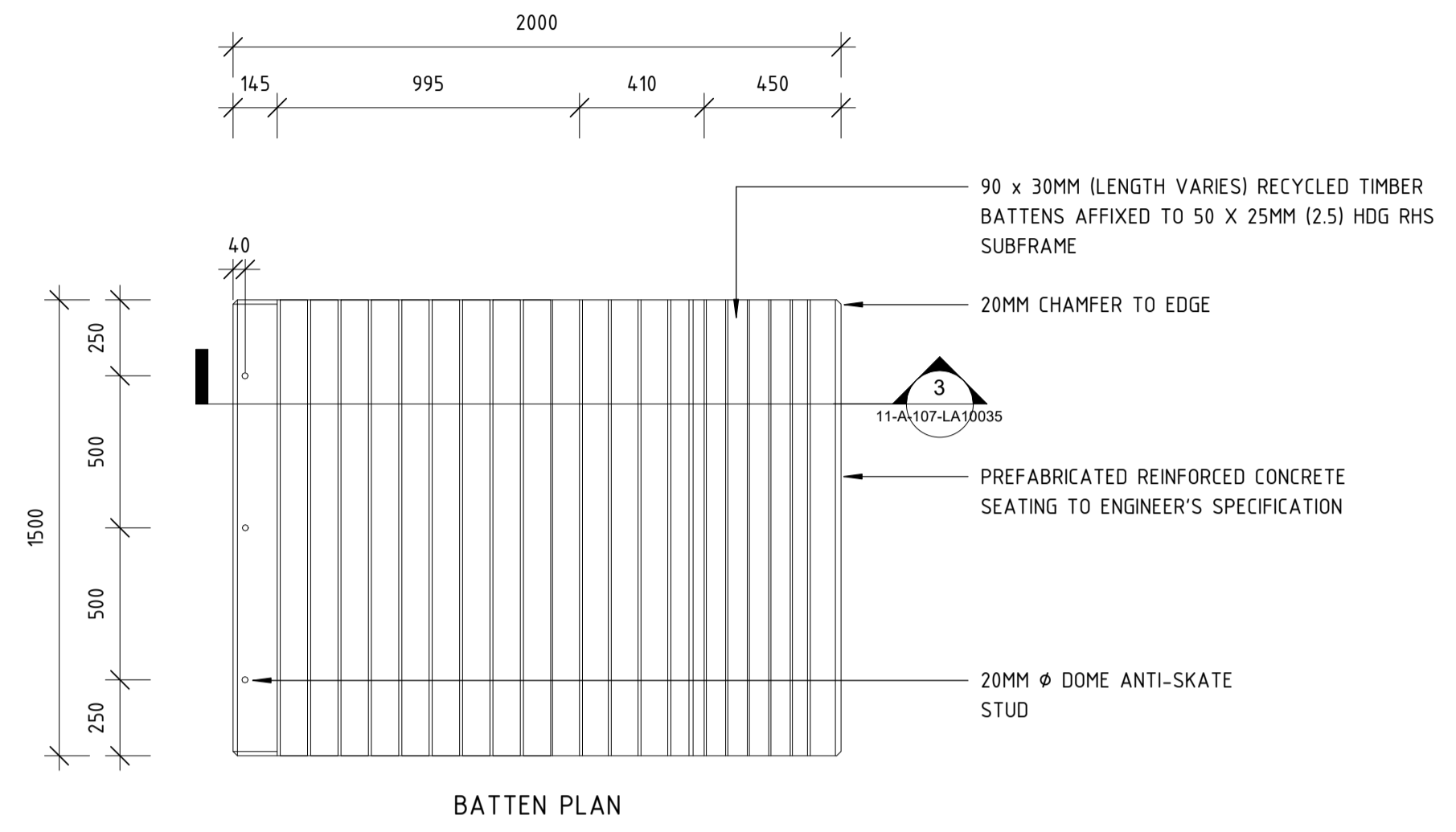
BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
FURNITURE DETAILS 04
 PTA Drawing No: 11-A-107-LA10034 Rev: A

NOTES:

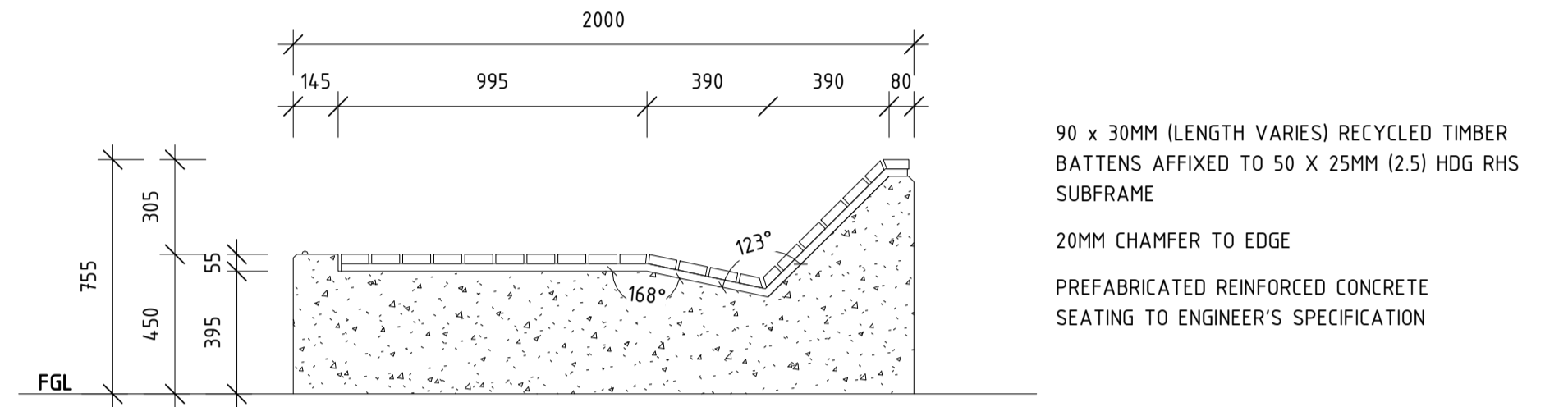
- SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION FOR REVIEW AND APPROVAL TO PROCEED.
- TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.



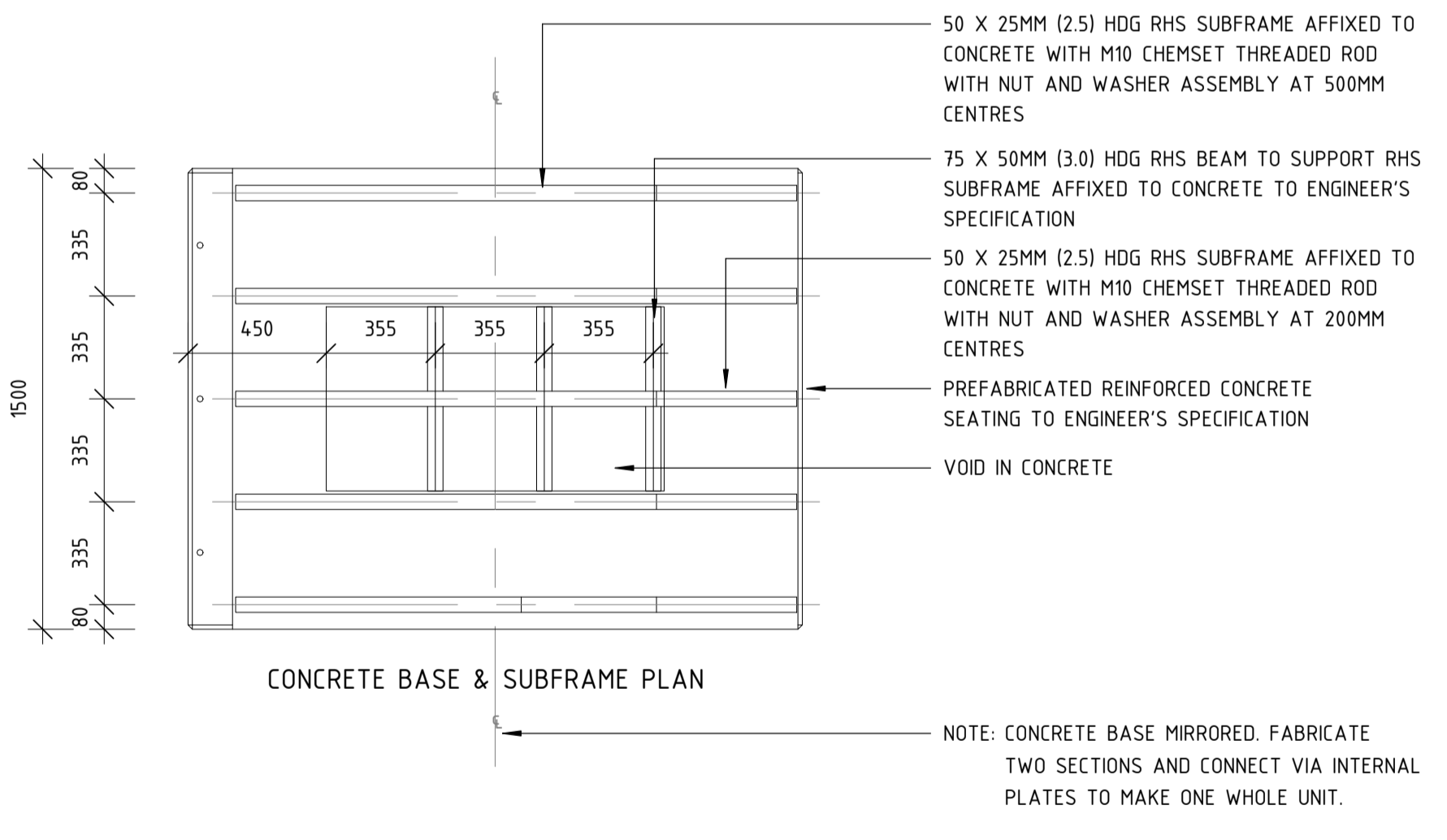
1 SEAT PLATFORM WITH ANGLE (BASE & SUBFRAME)
1 : 20



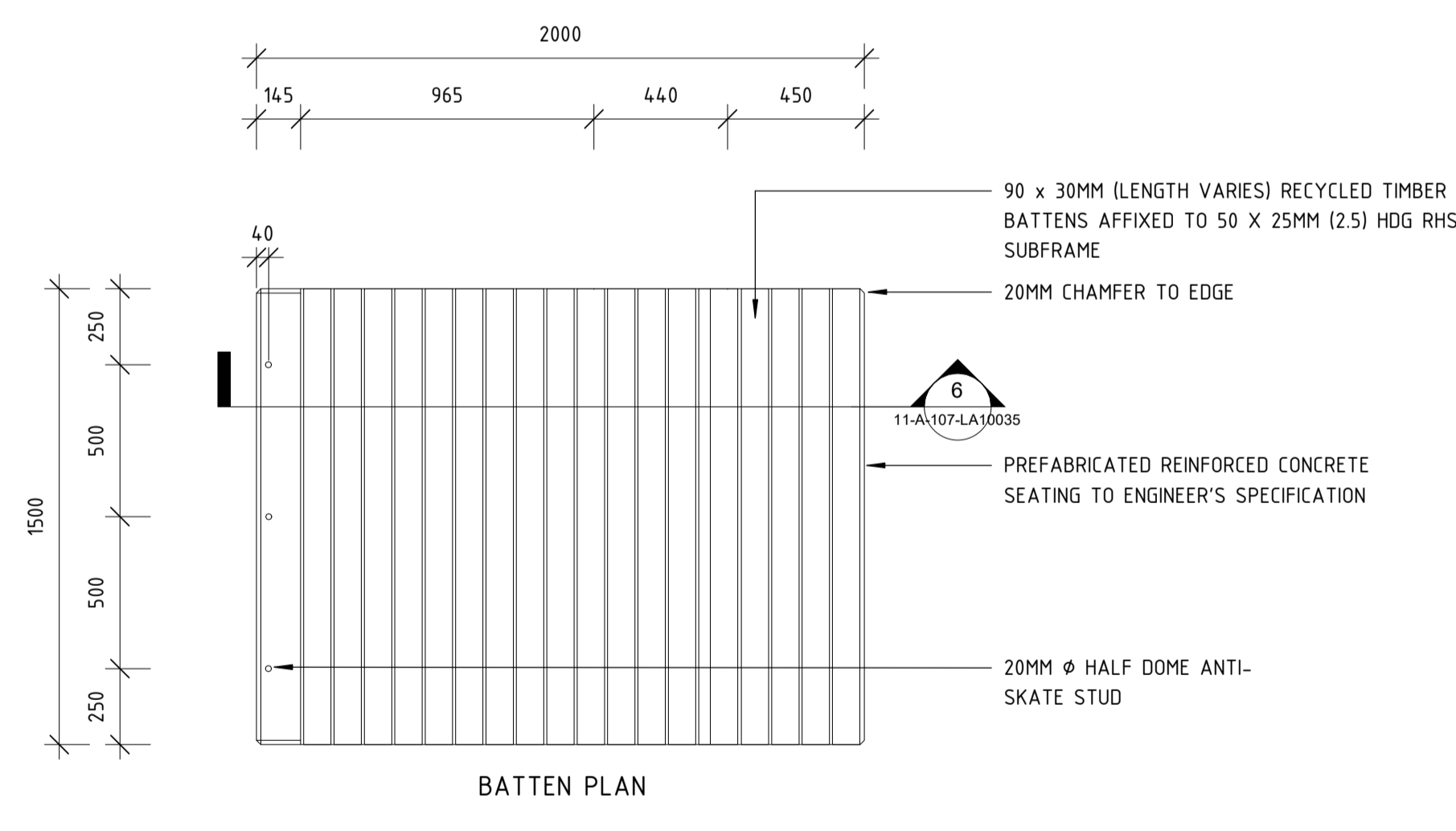
2 SEAT PLATFORM WITH ANGLE (BATTEN PLAN)
1 : 20



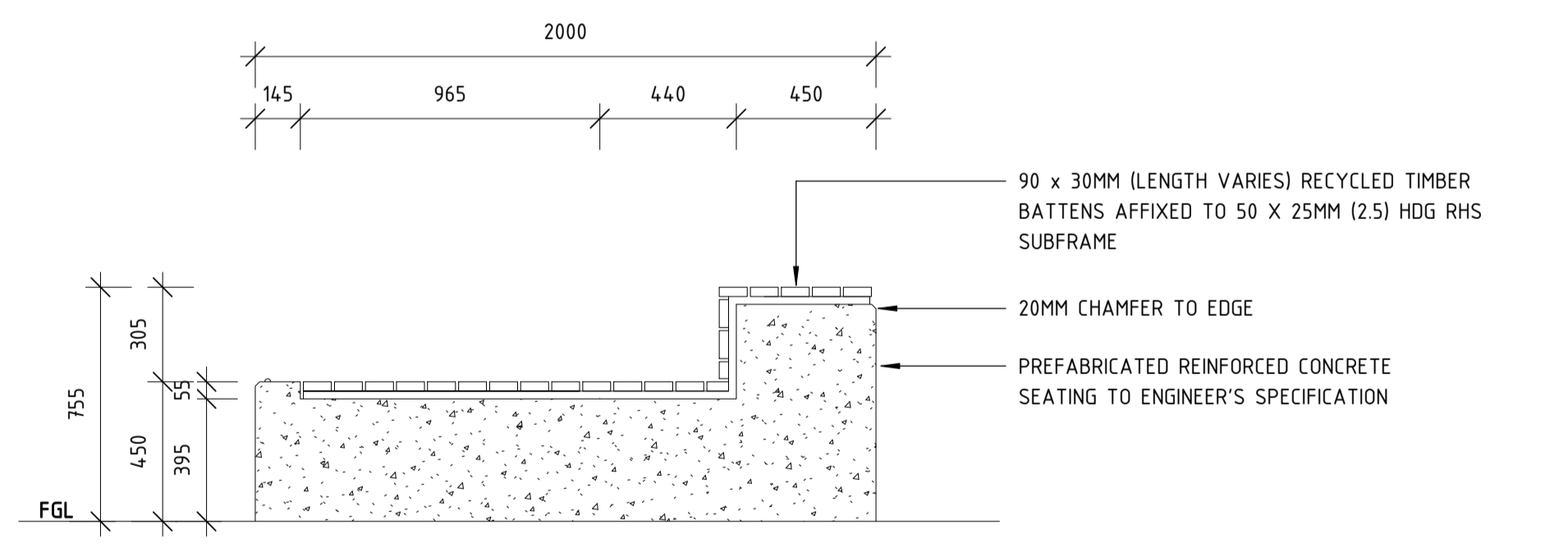
3 SEAT PLATFORM WITH ANGLE - DETAIL 3
1 : 20



4 SEAT PLATFORM WITH STEP (BASE & SUBFRAME)
1 : 20



5 SEAT PLATFORM WITH STEP (BATTEN PLAN)
1 : 20



6 SEAT PLATFORM WITH STEP - DETAIL 6
1 : 20

| | | | | | | |
|---|----------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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| | | |
|------------|---|---------------------|
| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

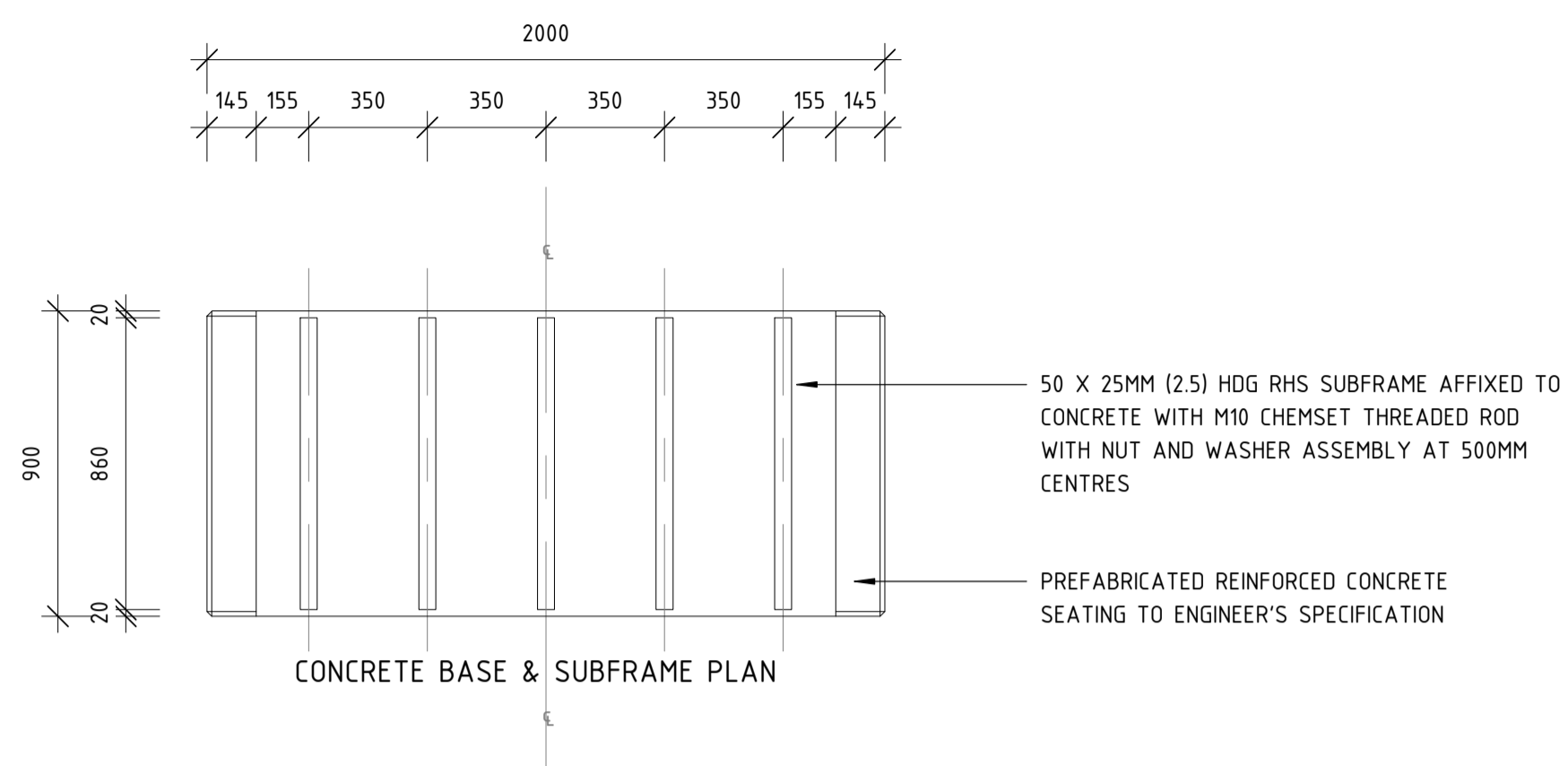
DETAILED DESIGN

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
FURNITURE DETAILS 05
 PTA Drawing No: 11-A-107-LA10035

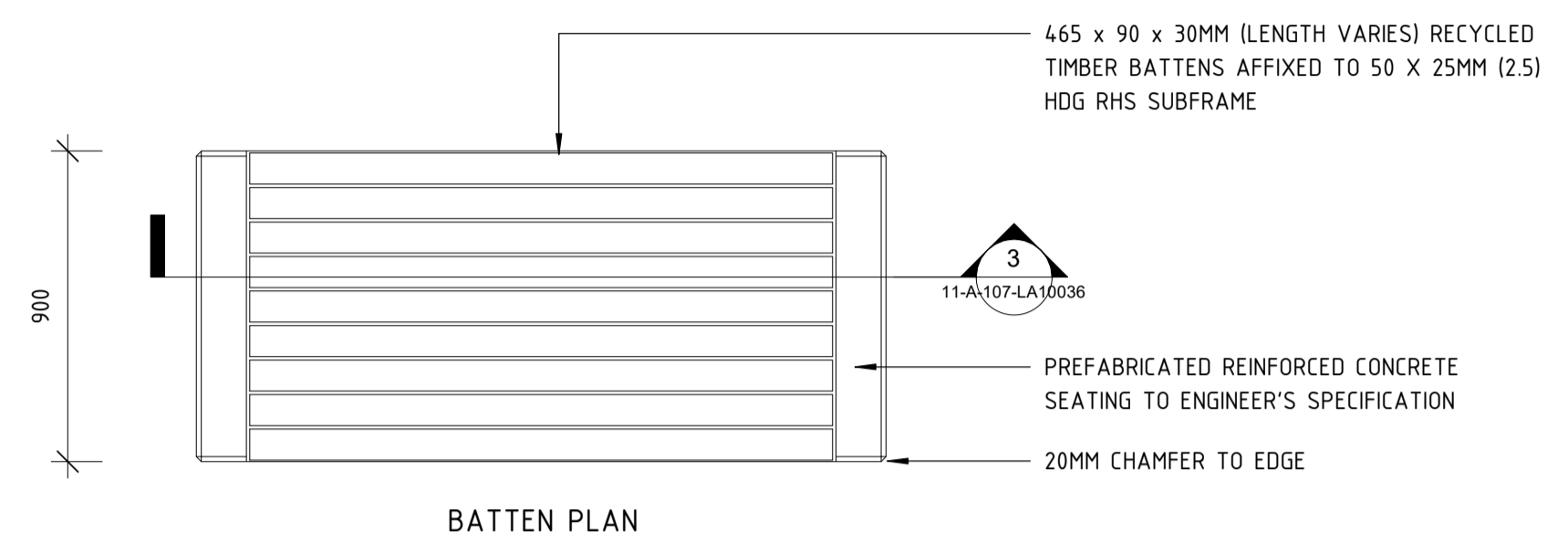
Rev: A

NOTES:

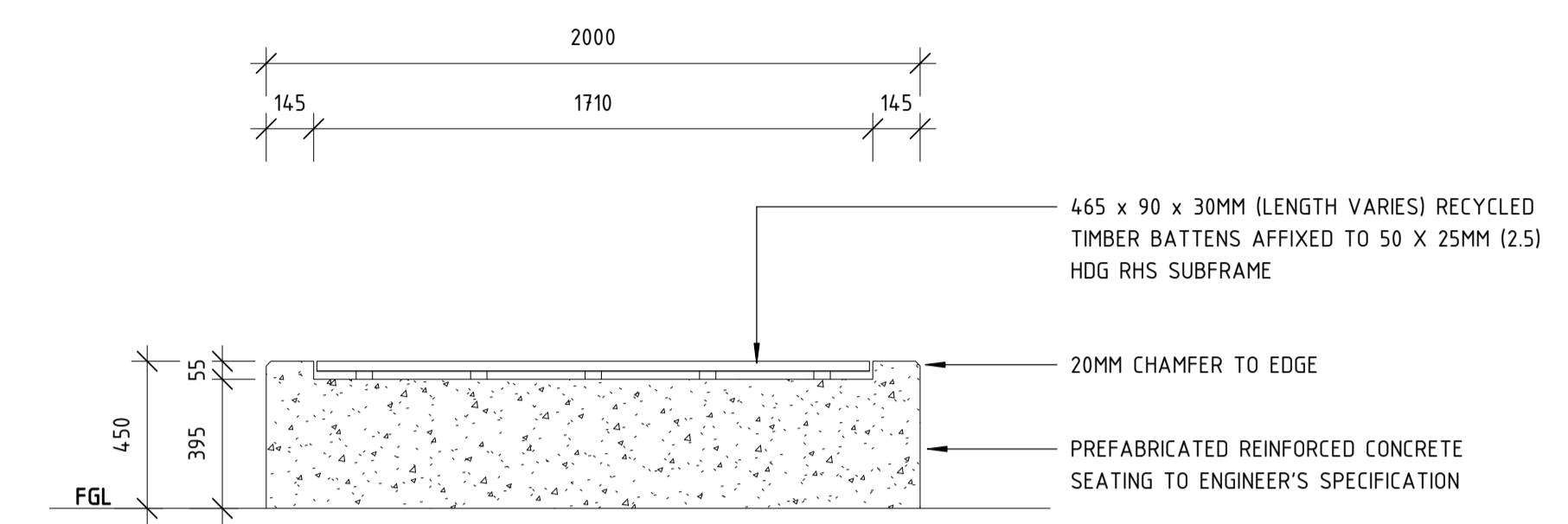
- SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION FOR REVIEW AND APPROVAL TO PROCEED.
- TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.



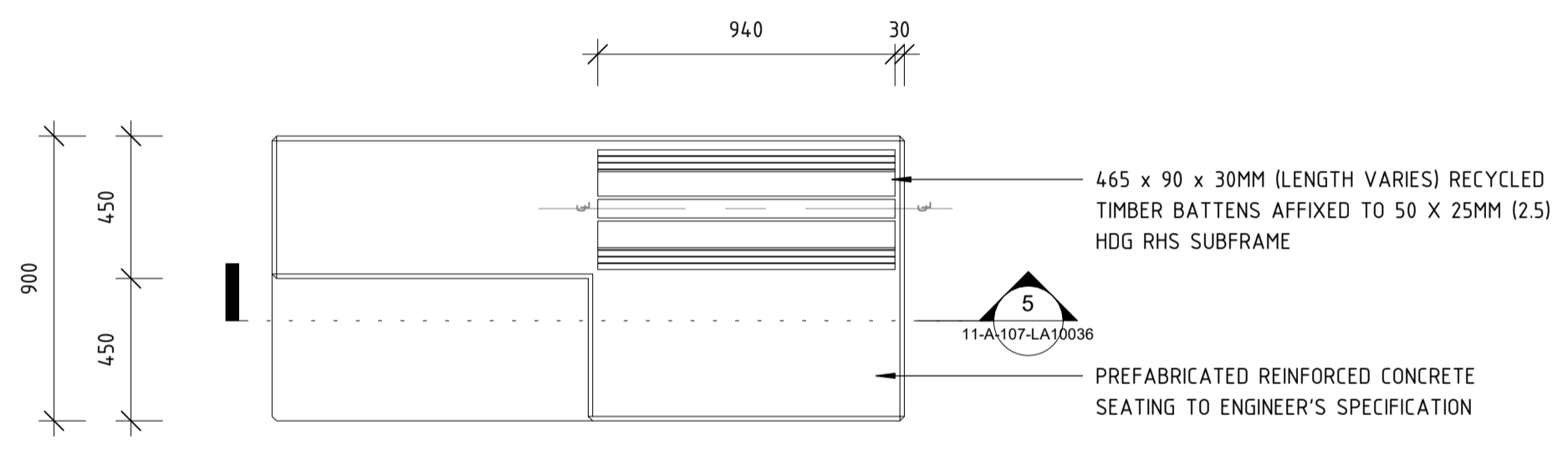
1 CONCRETE SEAT WITH BATTENS (BASE & SUBFRAME)
1 : 20



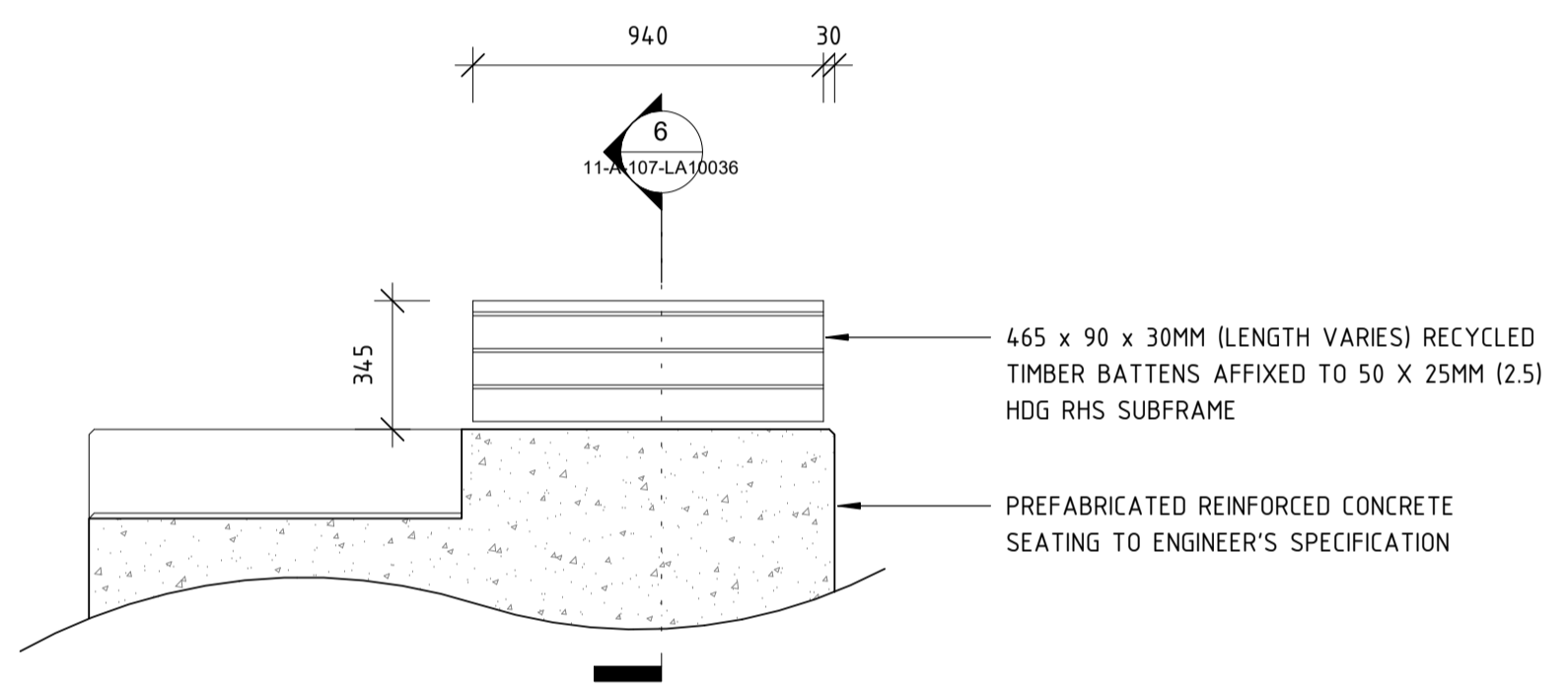
2 CONCRETE SEAT WITH BATTENS (BATTEN PLAN)
1 : 20



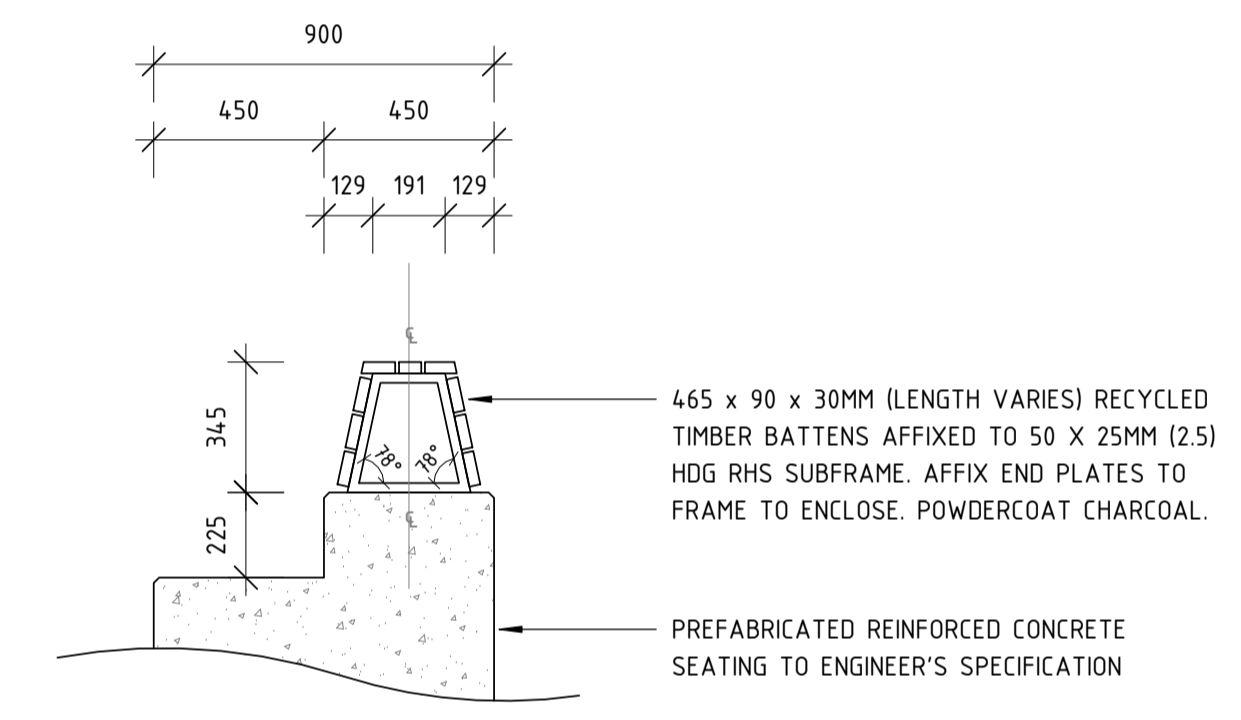
3 CONCRETE SEAT WITH BATTENS - DETAIL 3
1 : 20



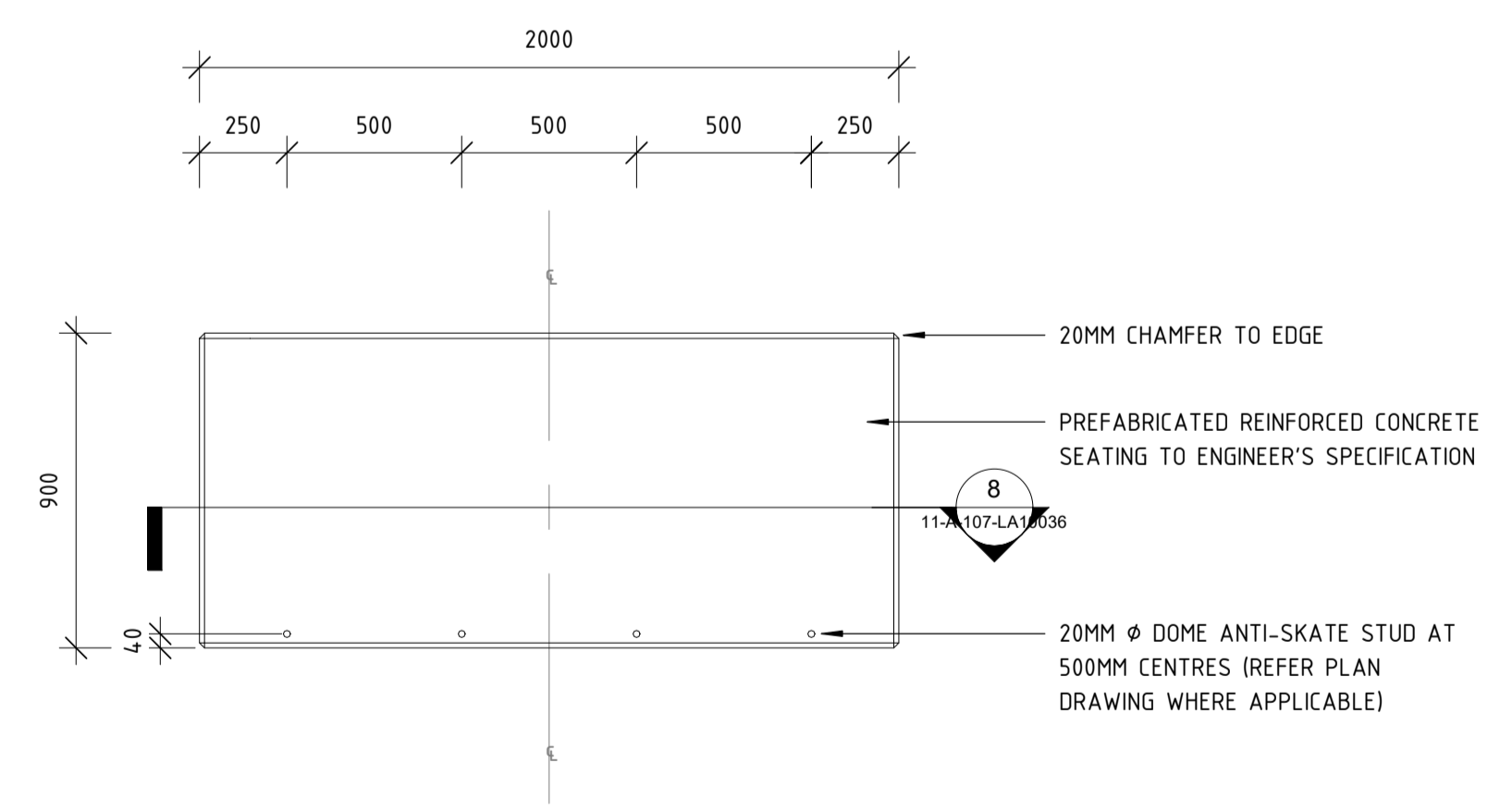
4 CONCRETE SEAT WITH BACKREST (DETAIL PLAN)
1 : 20



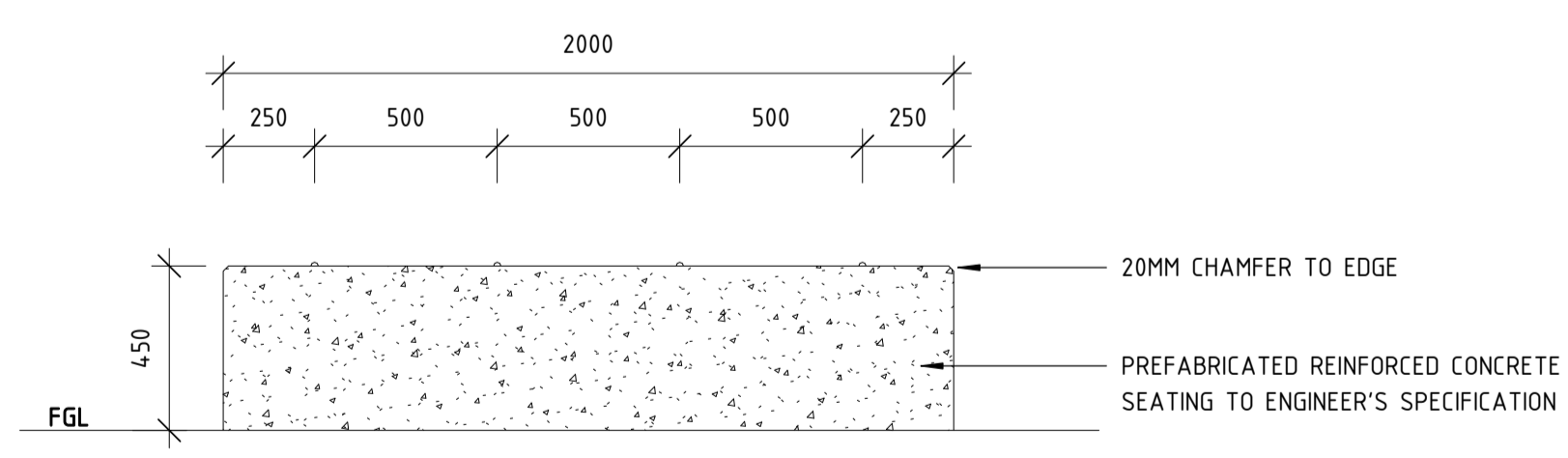
5 CONCRETE SEAT WITH BACKREST - DETAIL 5
1 : 20



6 CONCRETE SEAT WITH BACKREST - DETAIL 6
1 : 20



7 CONCRETE SEAT (DETAIL PLAN)
1 : 20



8 CONCRETE SEAT - DETAIL 8
1 : 20

DETAILED DESIGN

| | | | | | | |
|--|----------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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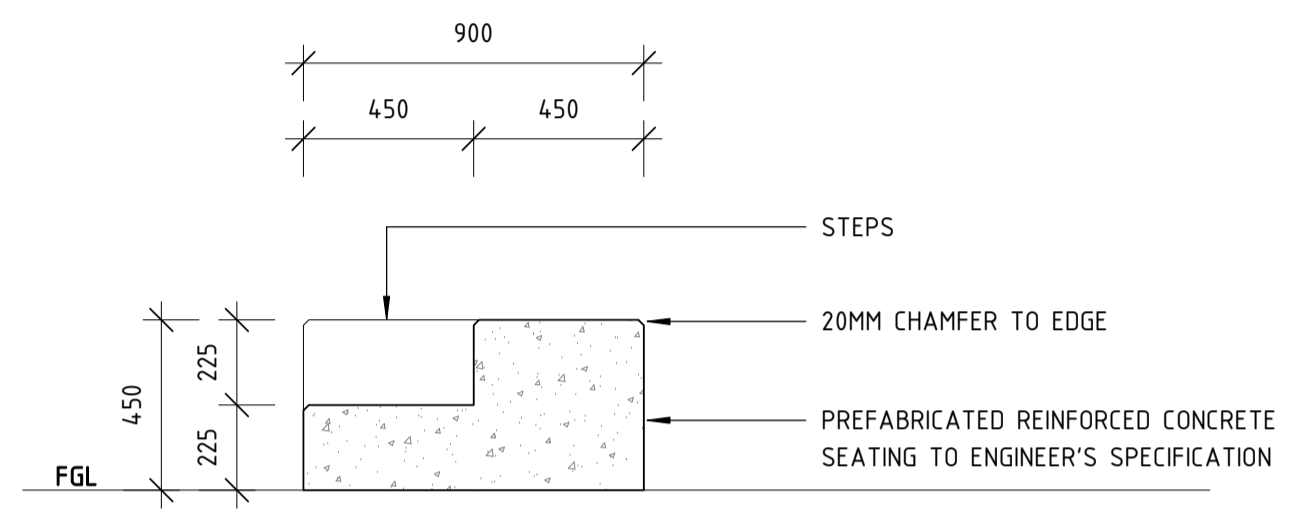
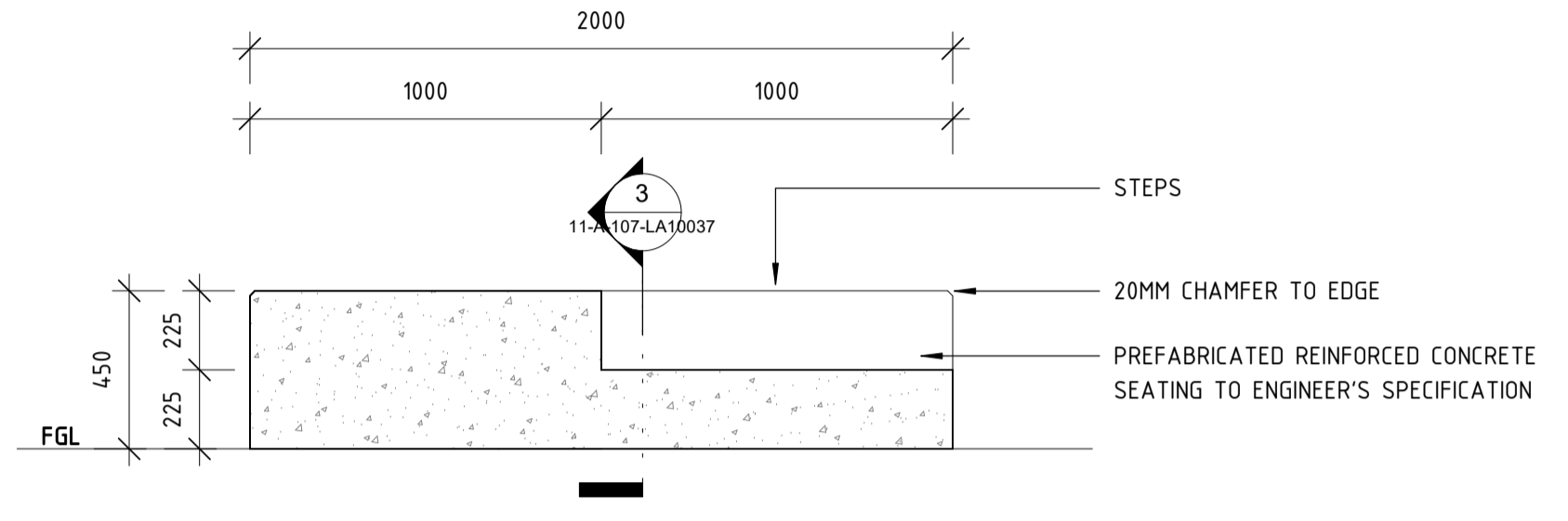
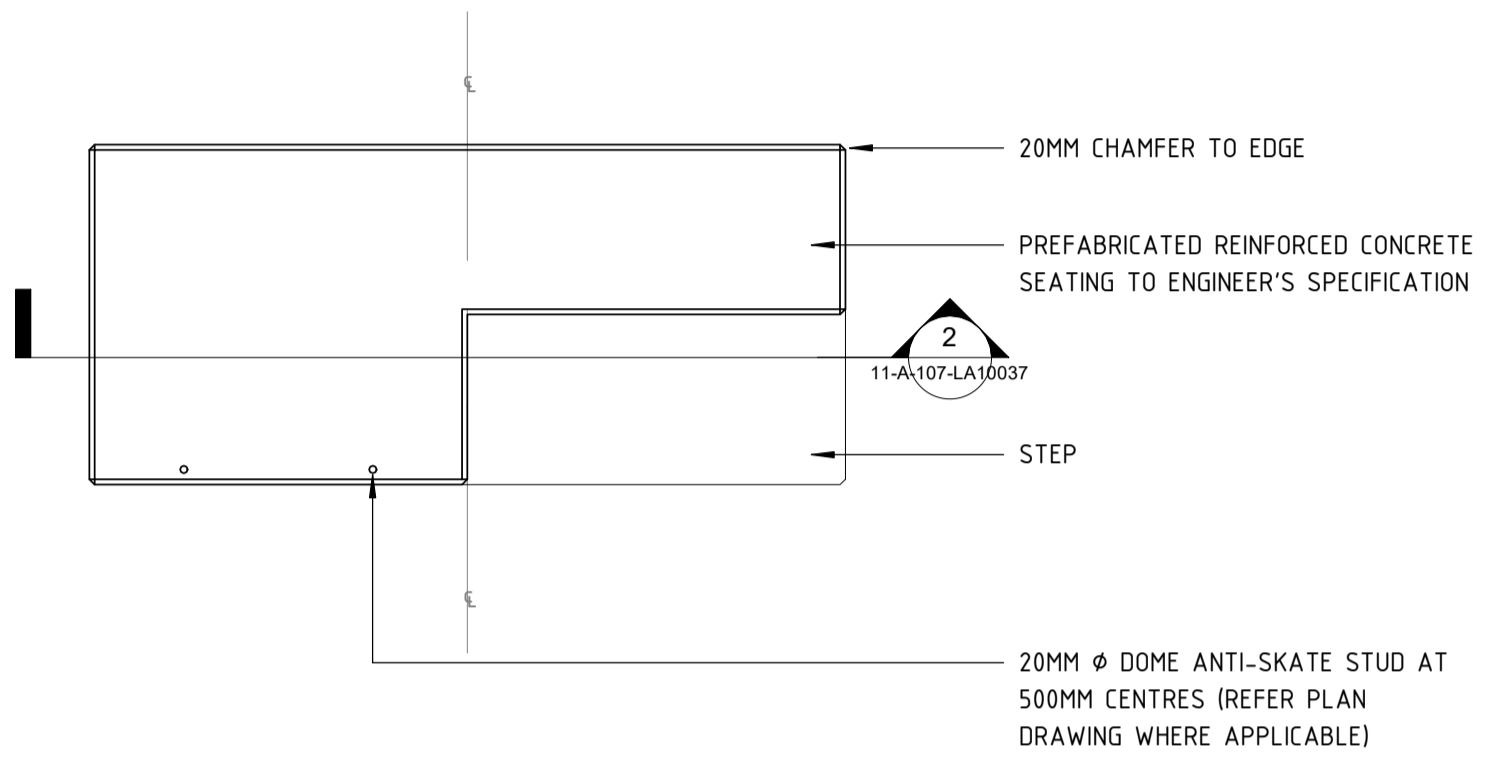


| | | |
|------------|---|---------------------|
| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

| | |
|----------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| FURNITURE DETAILS 06 | |
| PTA Drawing No: 11-A-107-LA10036 | Rev: A |

NOTES:

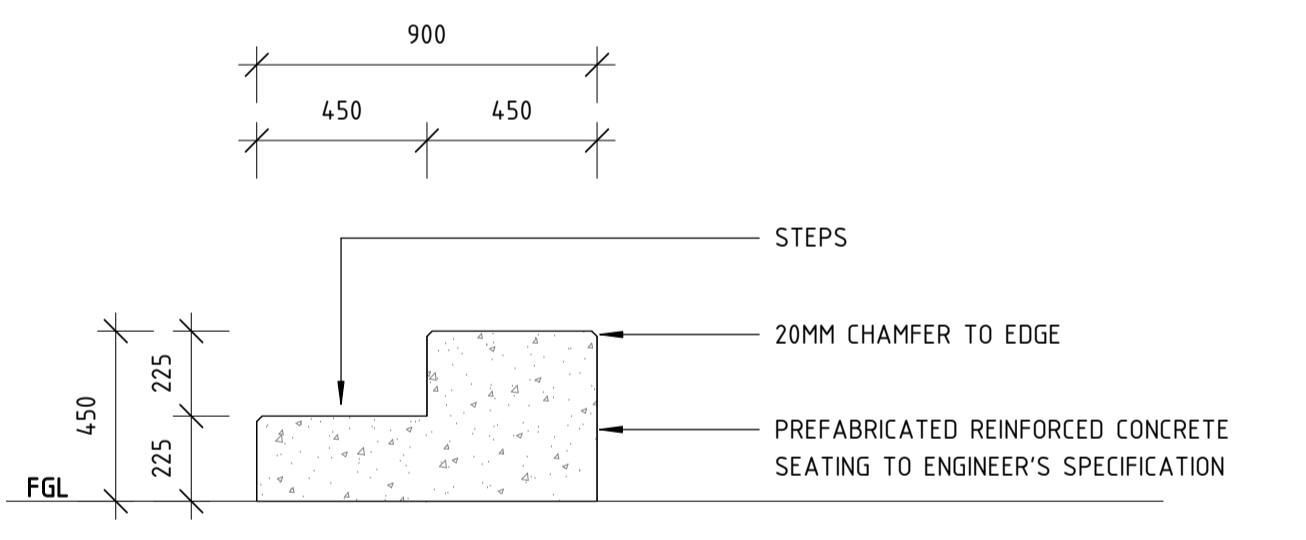
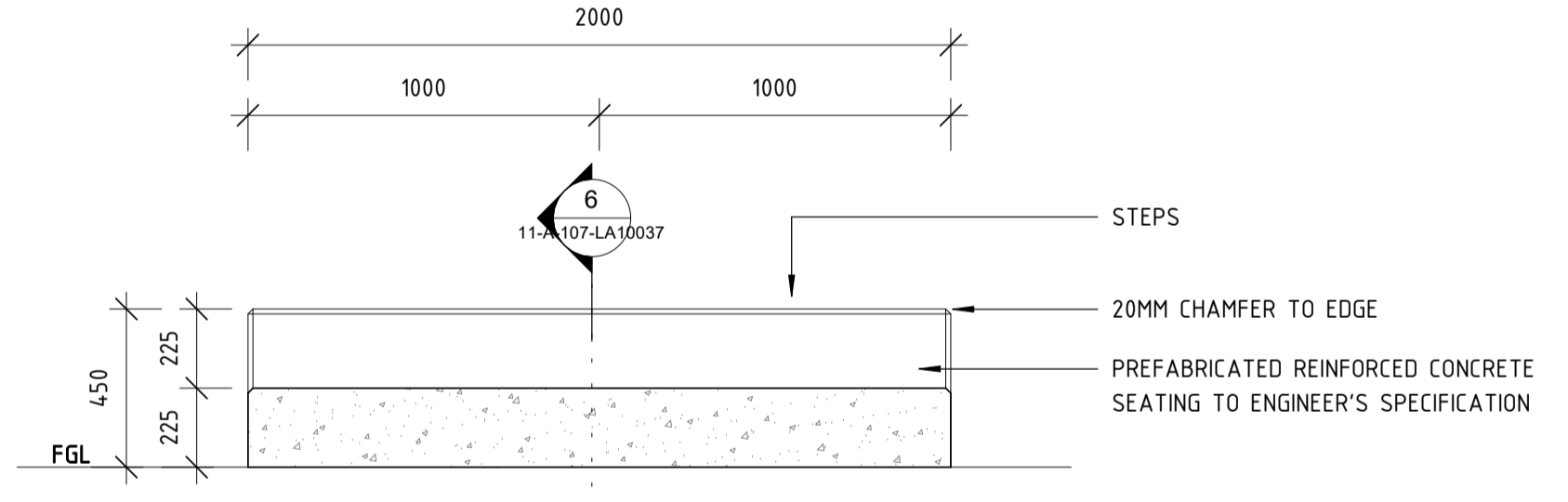
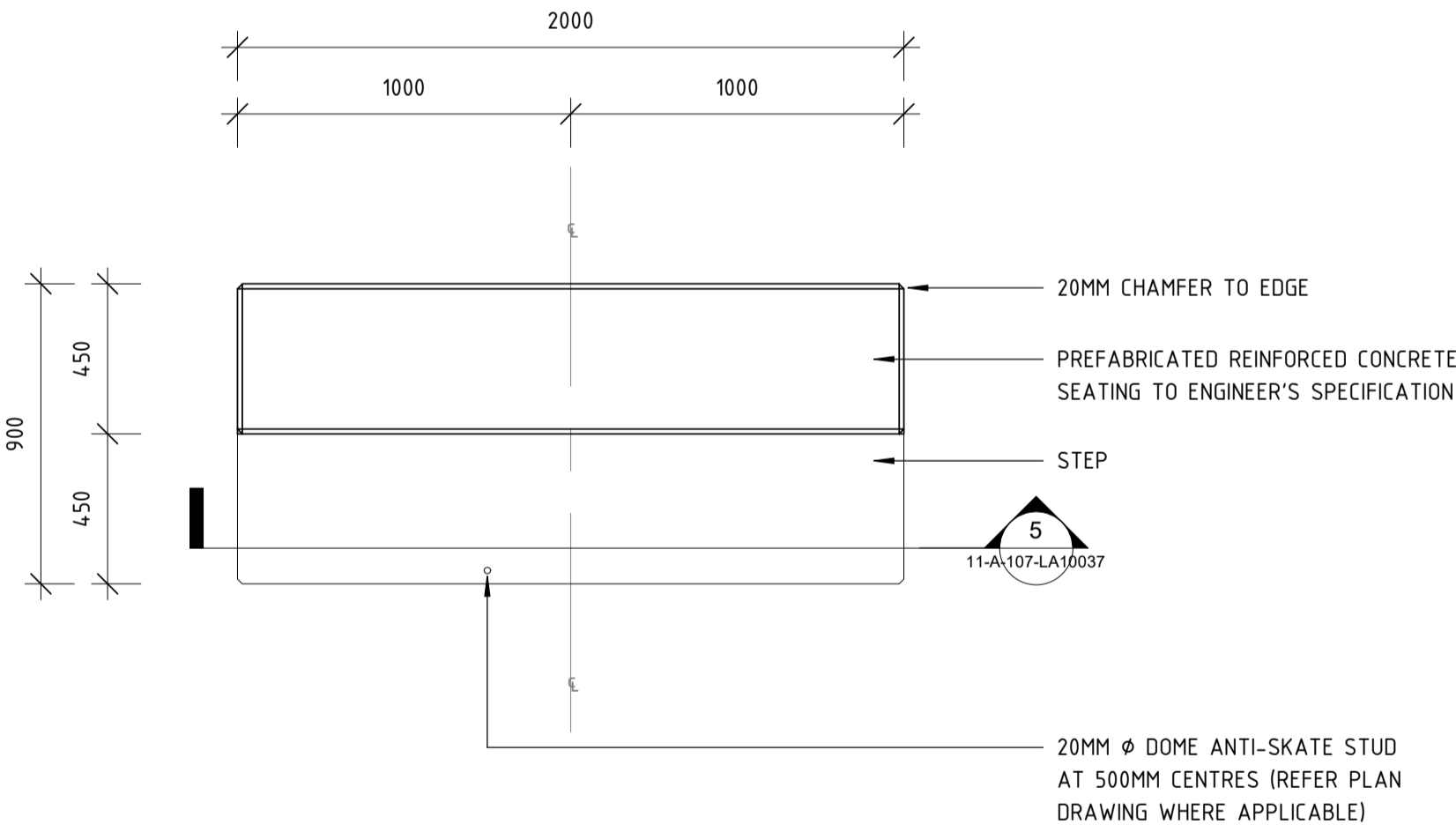
- SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION FOR REVIEW AND APPROVAL TO PROCEED.
- TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.



1 CONCRETE SEAT WITH HALF STEP (DETAIL PLAN)
 1 : 20

2 CONCRETE SEAT WITH HALF STEP (TYPICAL SECTION) - DETAIL 2
 1 : 20

3 CONCRETE SEAT WITH HALF STEP (TYPICAL SECTION) - DETAIL 3
 1 : 20



4 CONCRETE SEAT WITH STEP (DETAIL PLAN)
 1 : 20

5 CONCRETE SEAT WITH STEP (TYPICAL SECTION) - DETAIL 5
 1 : 20

6 CONCRETE SEAT WITH STEP (TYPICAL SECTION) - DETAIL 6
 1 : 20

| | | | | | | |
|--|----------|-----------------------------|------|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 02.06.23 | AMENDMENT | DSN | DRN | CHK | APP |
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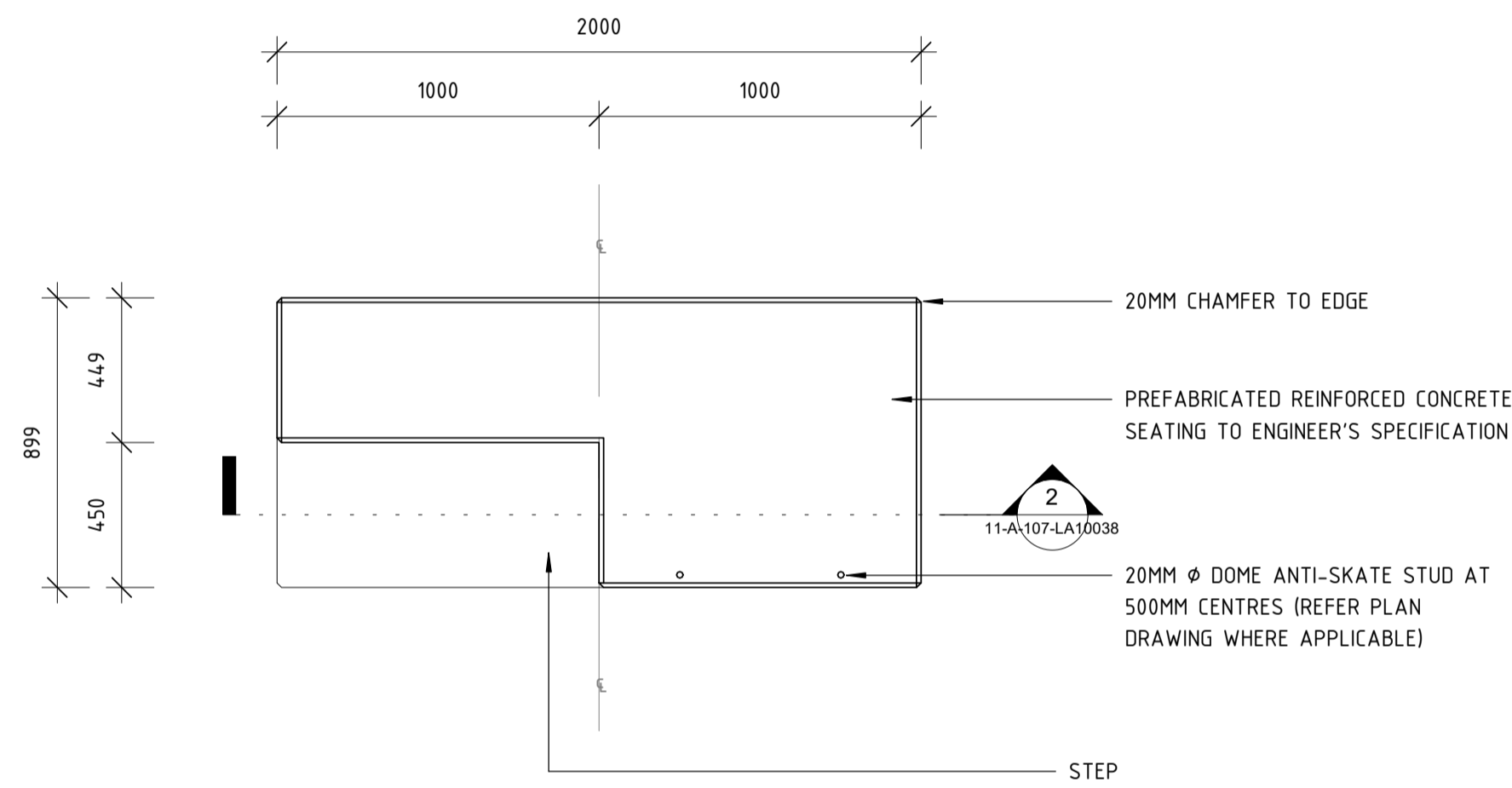
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|------------|---|---------------------|
| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

DETAILED DESIGN

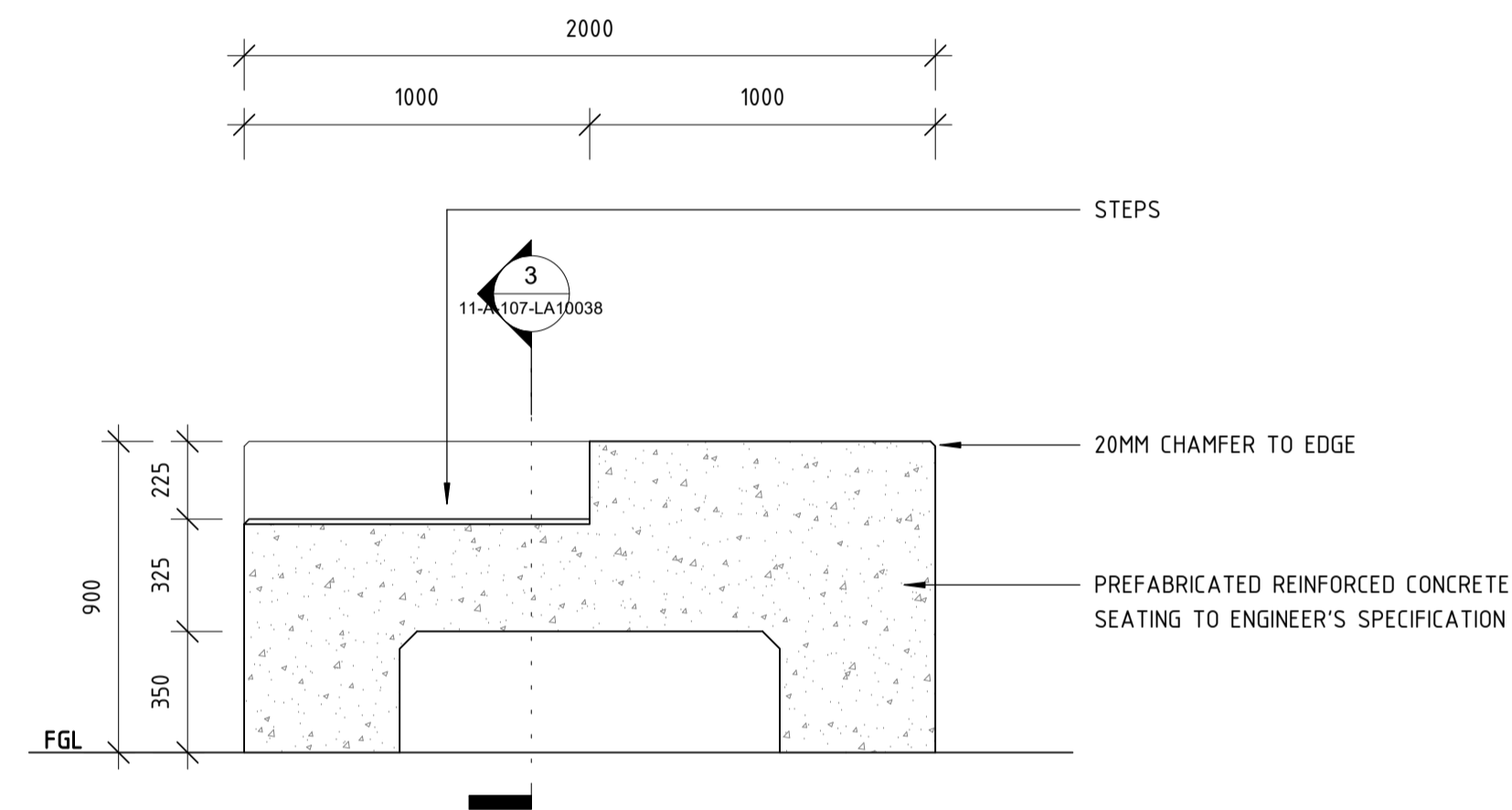
BYFORD RAIL EXTENSION
 ARMADALE STATION PRECINCT
 LANDSCAPE
 FURNITURE DETAILS 07
 PTA Drawing No: 11-A-107-LA10037

Rev: A

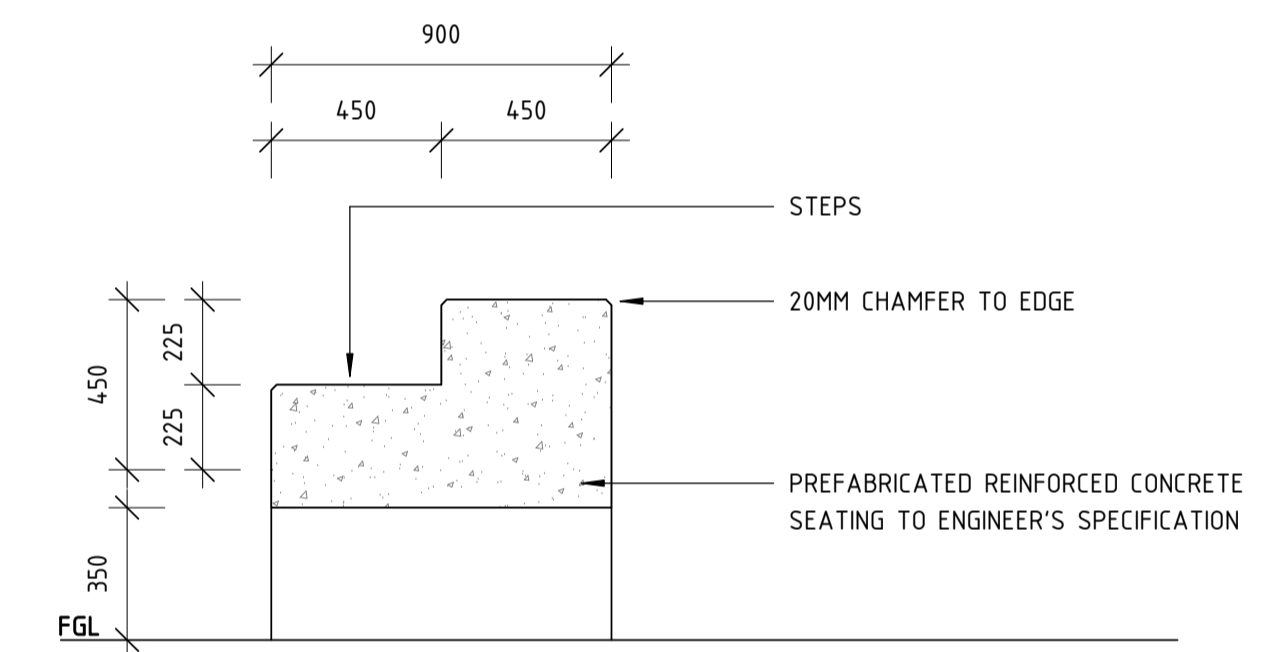
- NOTES:**
- SHOP DRAWINGS REQUIRED PRIOR TO FABRICATION FOR REVIEW AND APPROVAL TO PROCEED.
 - TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DOCUMENTATION.
 - SITE MEASURE PRIOR TO SHOP DRAWINGS.



1 CONCRETE SEAT (TALL) WITH HALF STEP (DETAIL PLAN)
1 : 20



2 CONCRETE SEAT (TALL) WITH HALF STEP - DETAIL 2
1 : 20



3 CONCRETE SEAT (TALL) WITH HALF STEP - DETAIL 3
1 : 20

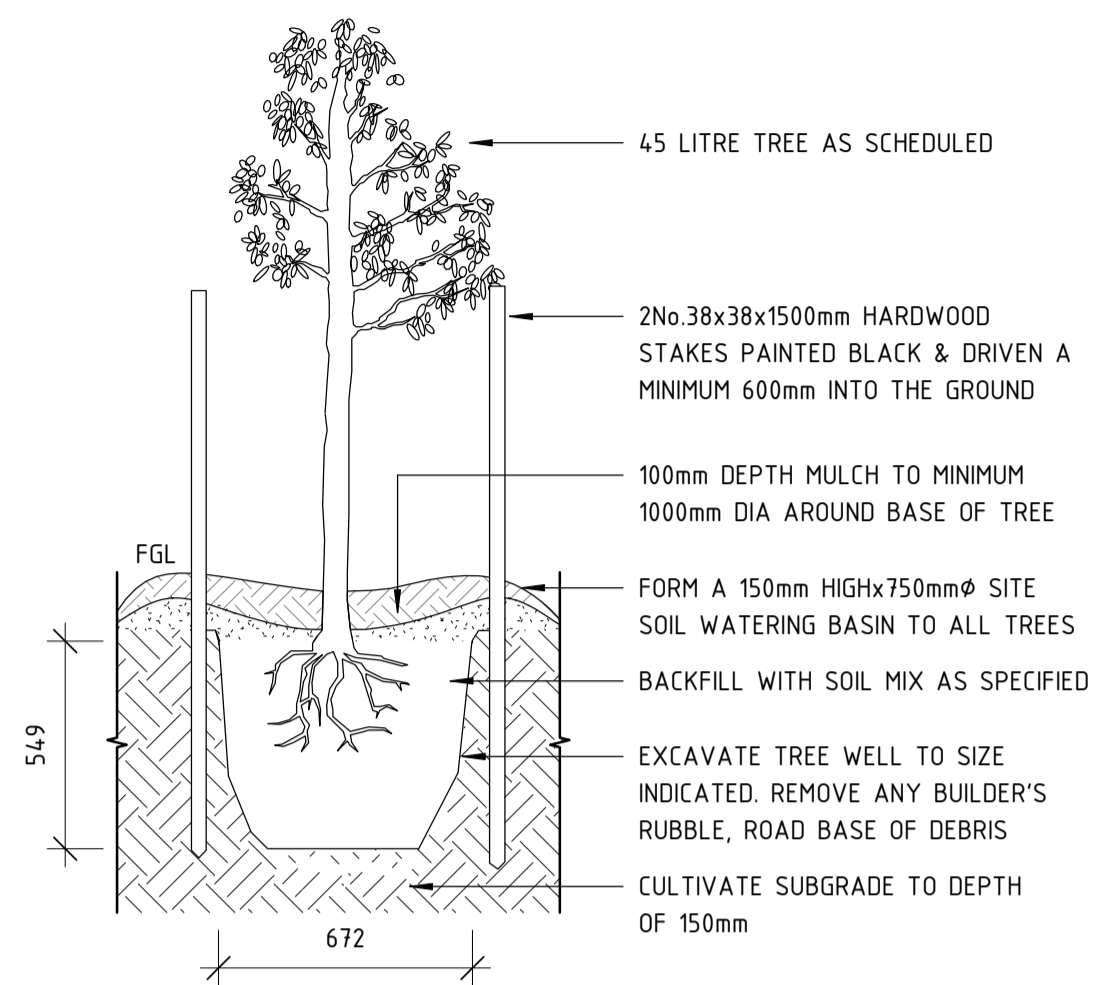
DETAILED DESIGN

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|-----------|----------|-----------------------------|-----------|---|------|------|------|
| REV | DATE | ISSUED FOR IDD - PTA REVIEW | AMENDMENT | DSN | DRN | CHK | APP |
| A | 02.06.23 | | | D.F. | Y.D. | M.H. | A.E. |
| ORIG SIZE | | AT ORIGINAL PLOT SIZE | | This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose. | | | |
| A1 | | AT ORIGINAL PLOT SIZE | | Contractor No: R30-UDL-DWG-LA-230-02160 Rev: A | | | |

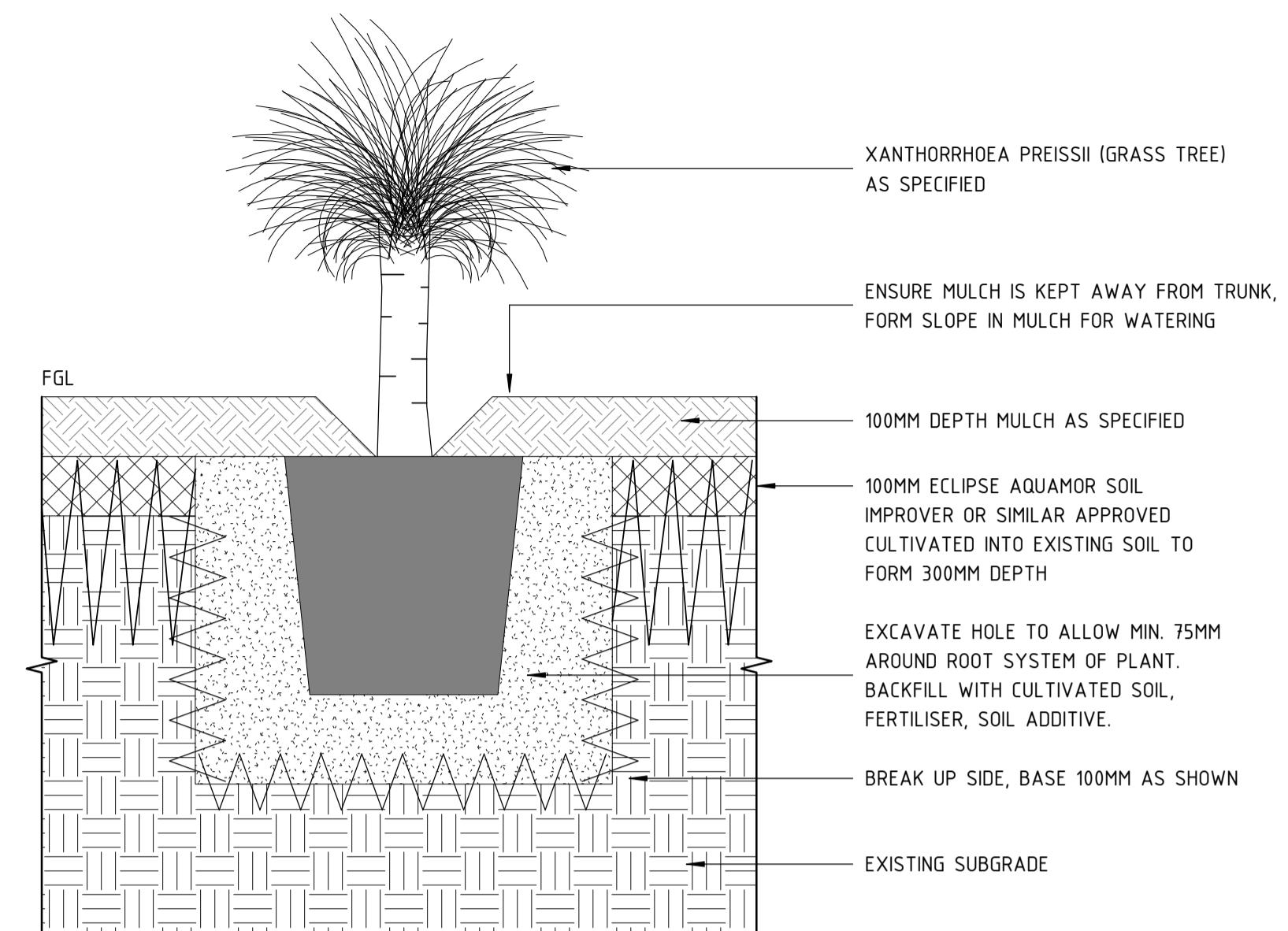


| | | |
|------------|---|---------------------|
| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

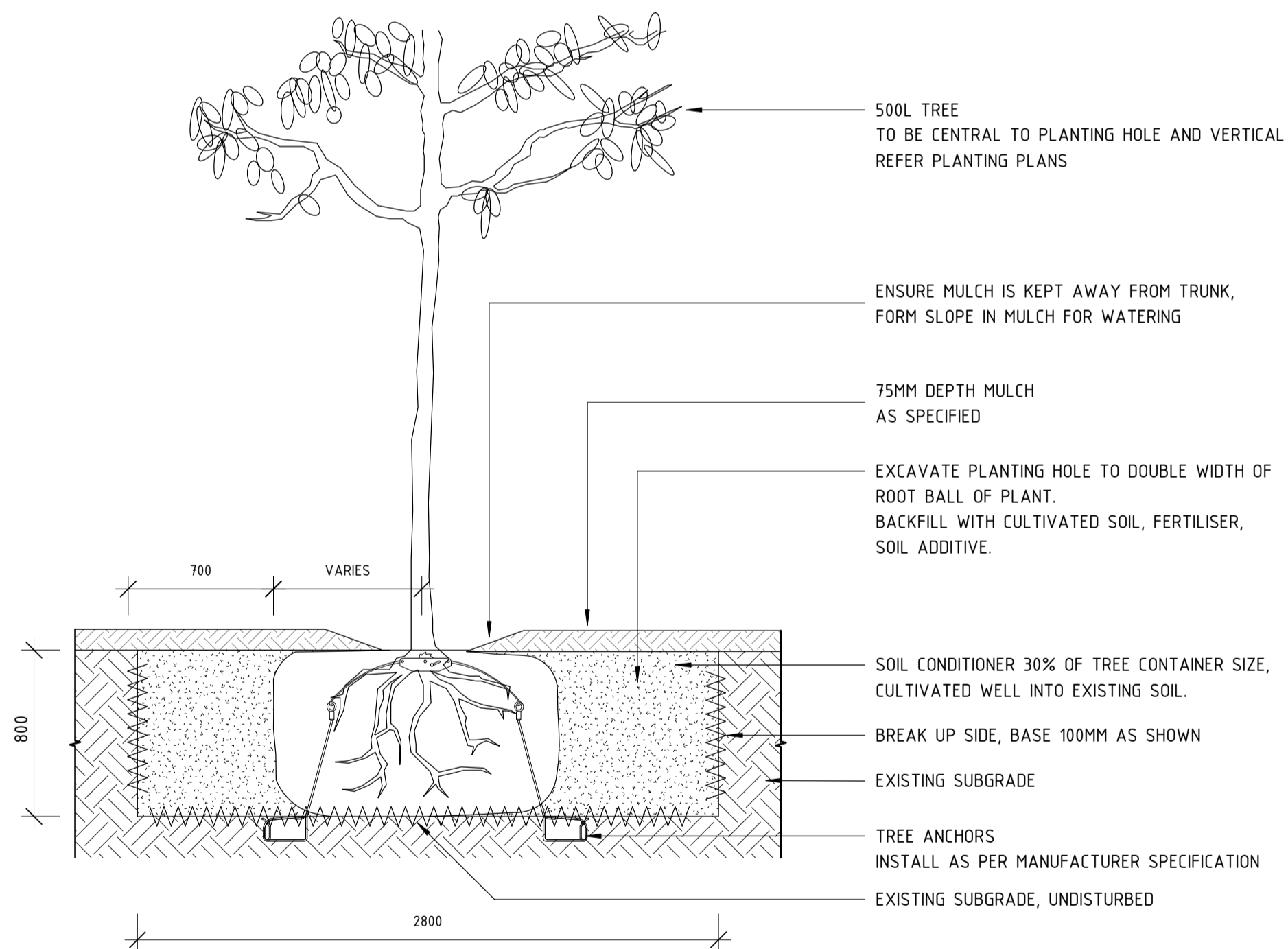
| | |
|----------------------------------|-----------------------|
| | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| FURNITURE DETAILS 08 | |
| PTA Drawing No: 11-A-107-LA10038 | Rev: A |



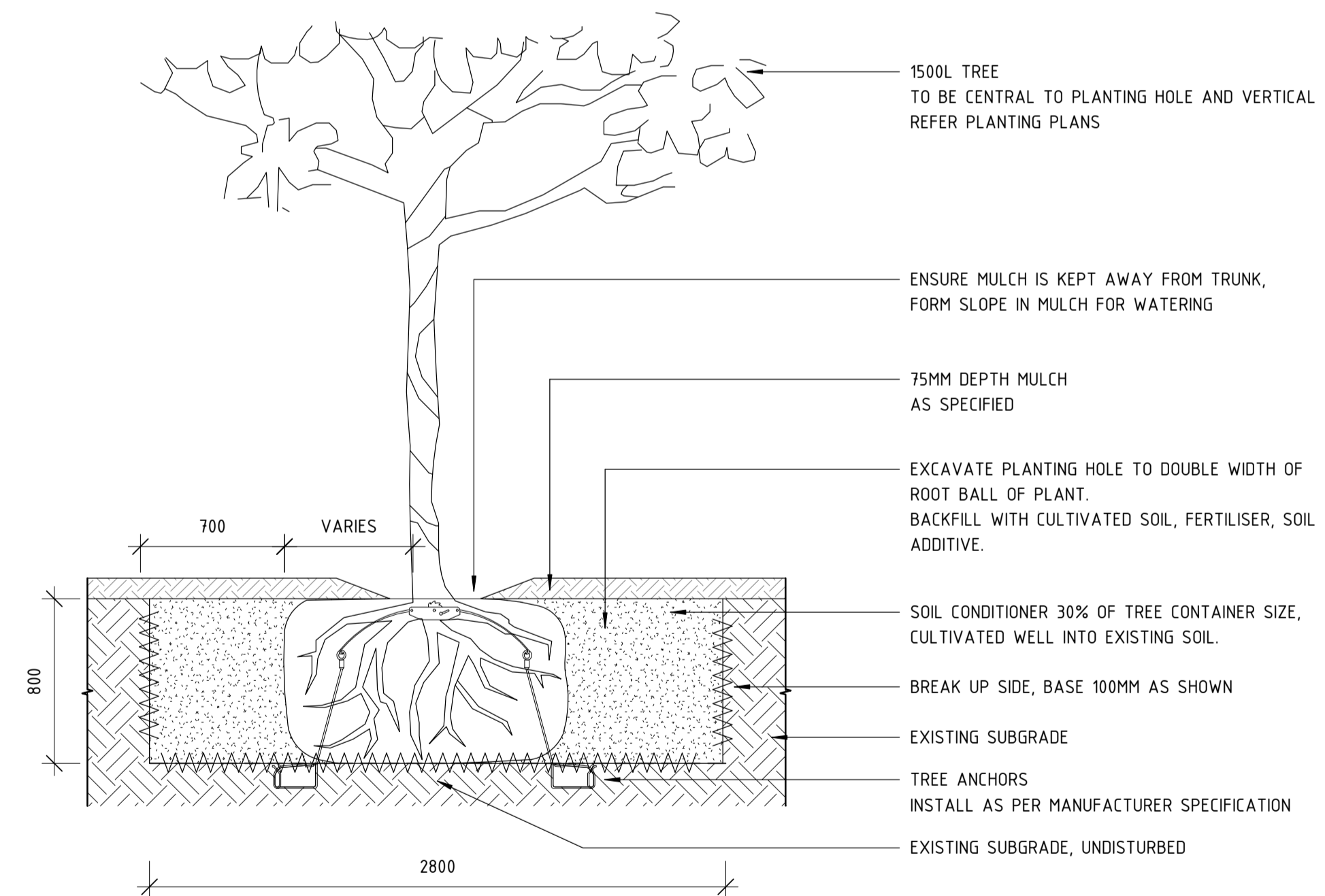
1 45L TREE
1 : 20



2 XANTHORREA PREISSII
1 : 10



3 500L TREE
1 : 25



4 1500L TREE
1 : 25

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|-----|----------|-----------------------------|------|------|------|------|
| B | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

ORIG SIZE A1 AT ORIGINAL PLOT SIZE

0 10 20 30 40 50 100mm

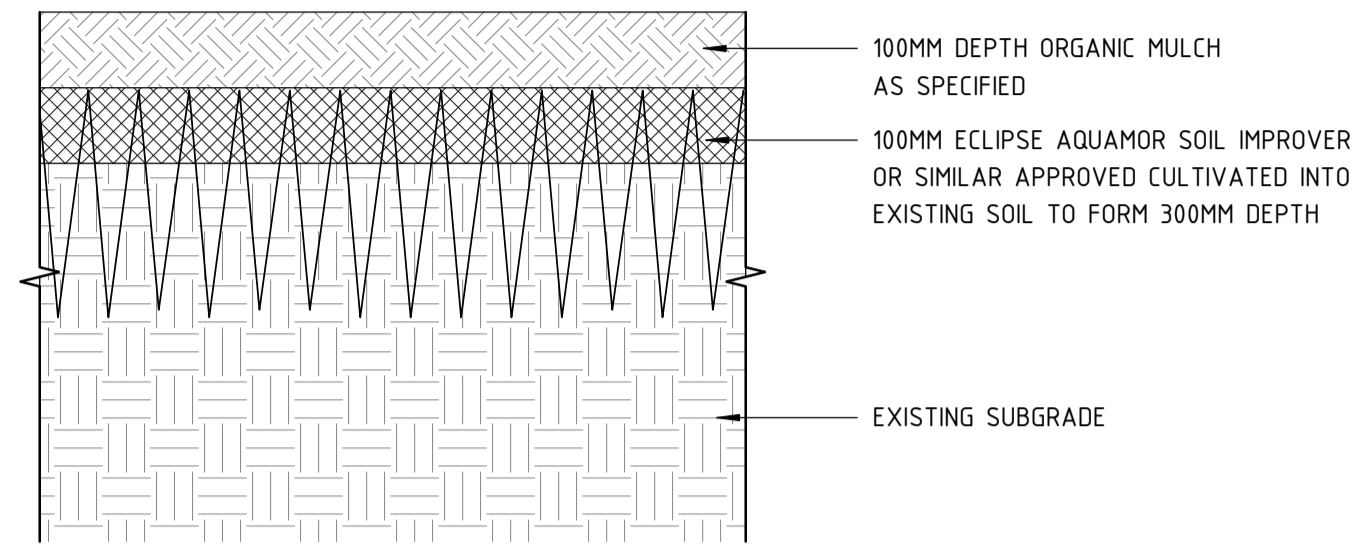
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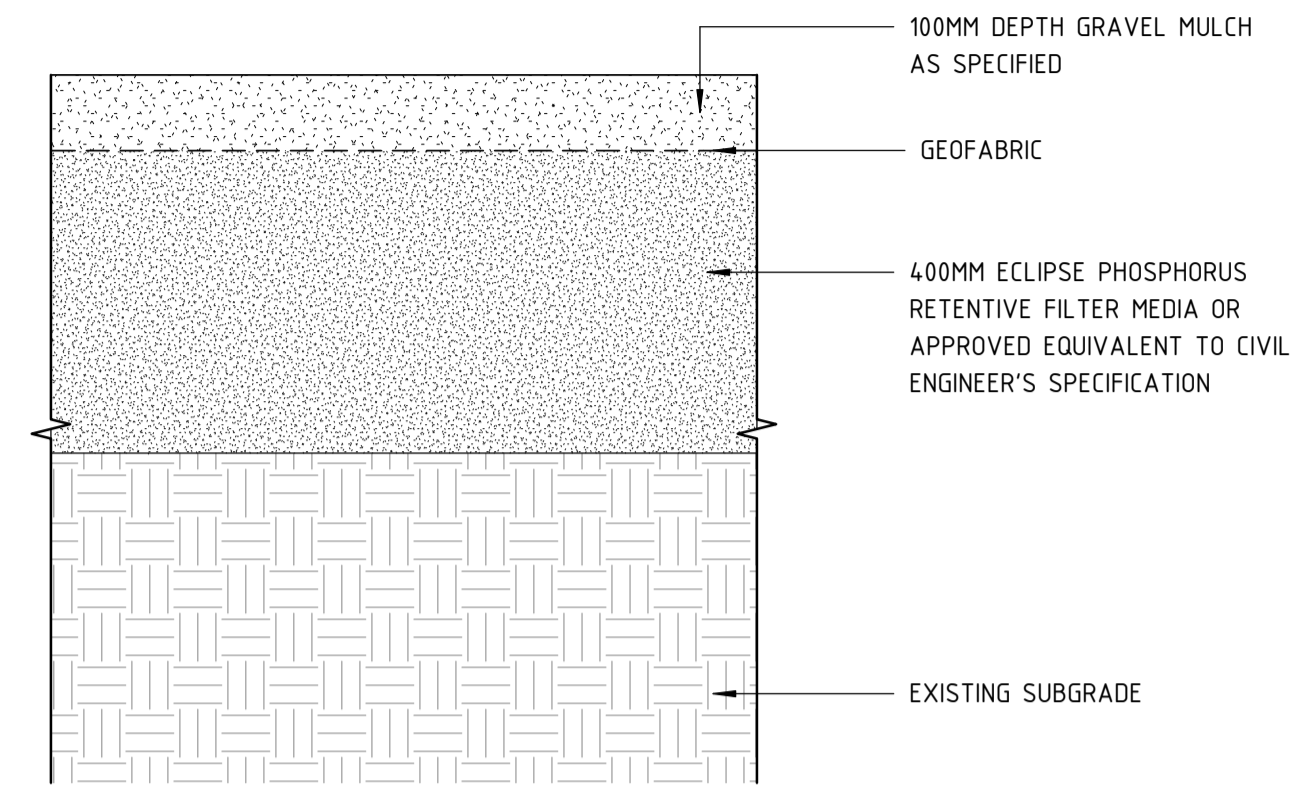
Contractor No:R30-UDL-DWG-LA-230-02163 Rev: B

| REFERENCES | SCALE | DESIGNED |
|------------|---------------------|------------------|
| | AS SHOWN | D.Firns |
| | | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | DATUM | DATE 02/06/23 |
| | HORIZONTAL: PCG2020 | |
| | VERTICAL: AHD71 | |

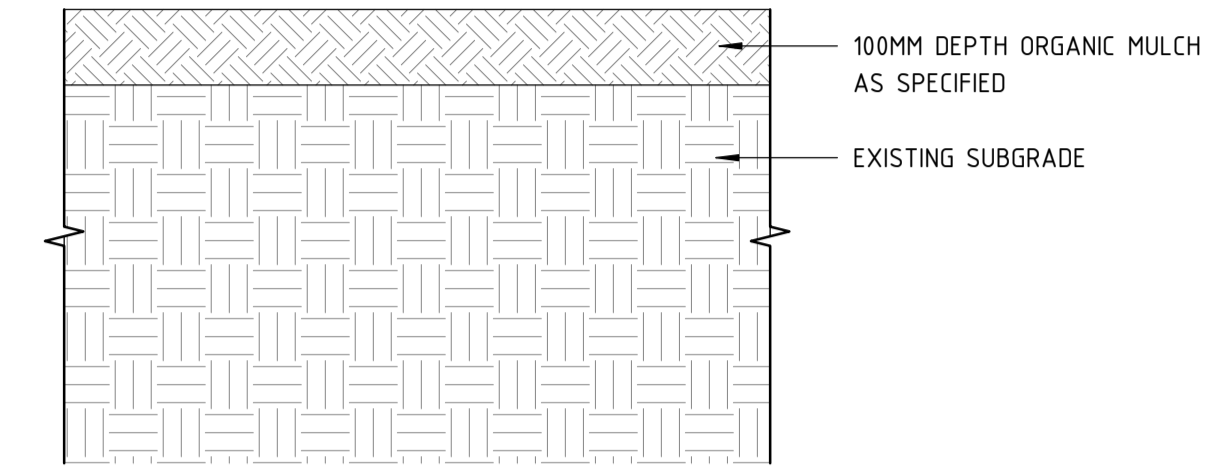
| DETAILED DESIGN | |
|---|-----------------------|
| Government of Western Australia Public Transport Authority | BYFORD RAIL EXTENSION |
| ARMADALE STATION PRECINCT | |
| LANDSCAPE | |
| SOFTSCAPE DETAILS 01 | |
| PTA Drawing No: 11-A-107-LA10041 | Rev: B |



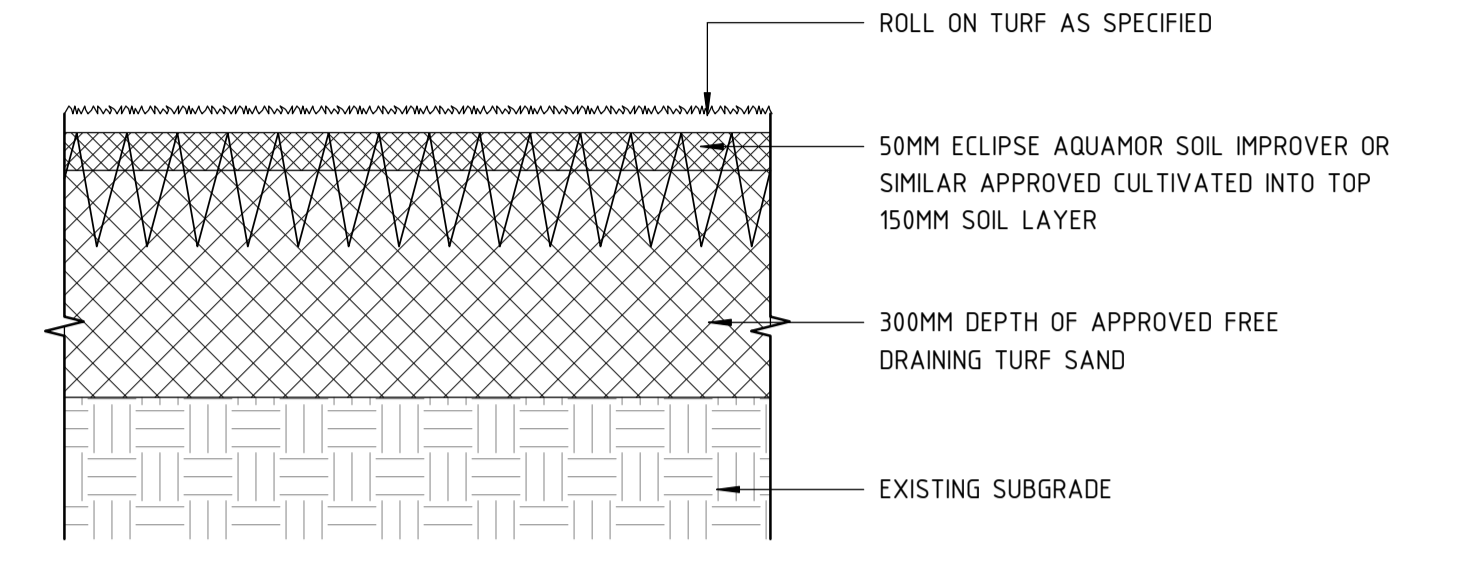
1 GARDEN BED (GDB-01)
1 : 10



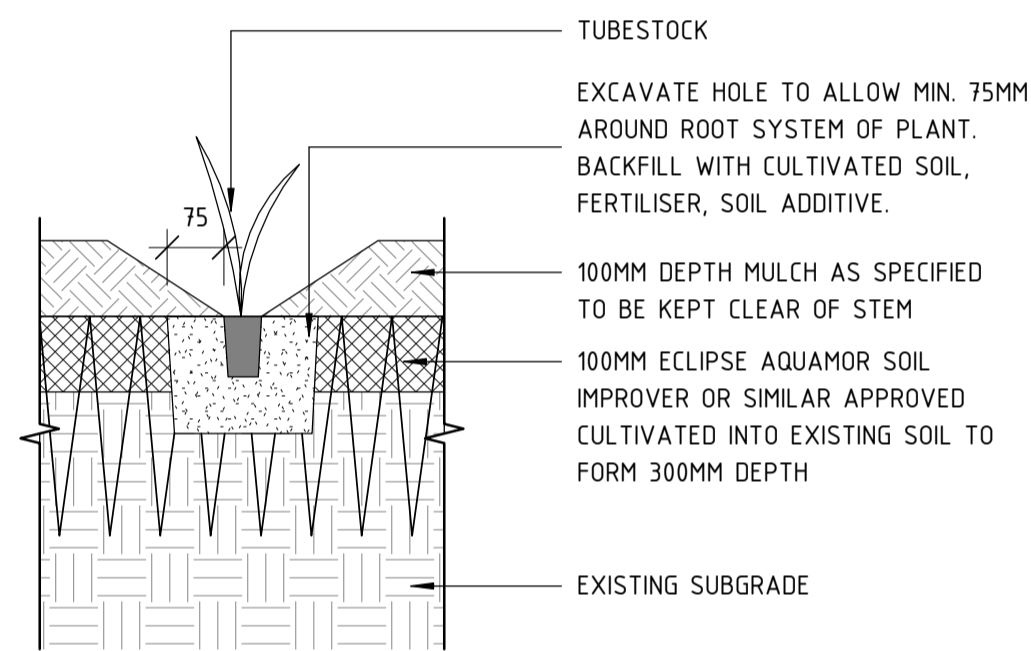
2 BIORETENTION BASIN (BIO-01A)
1 : 10



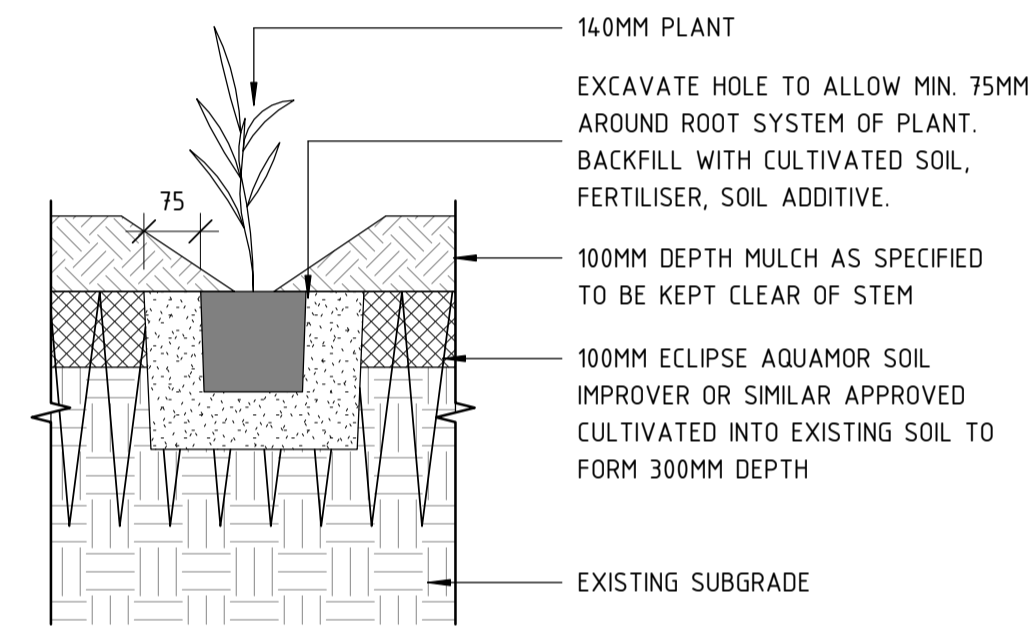
3 GARDEN BED (GDB-02)
1 : 10



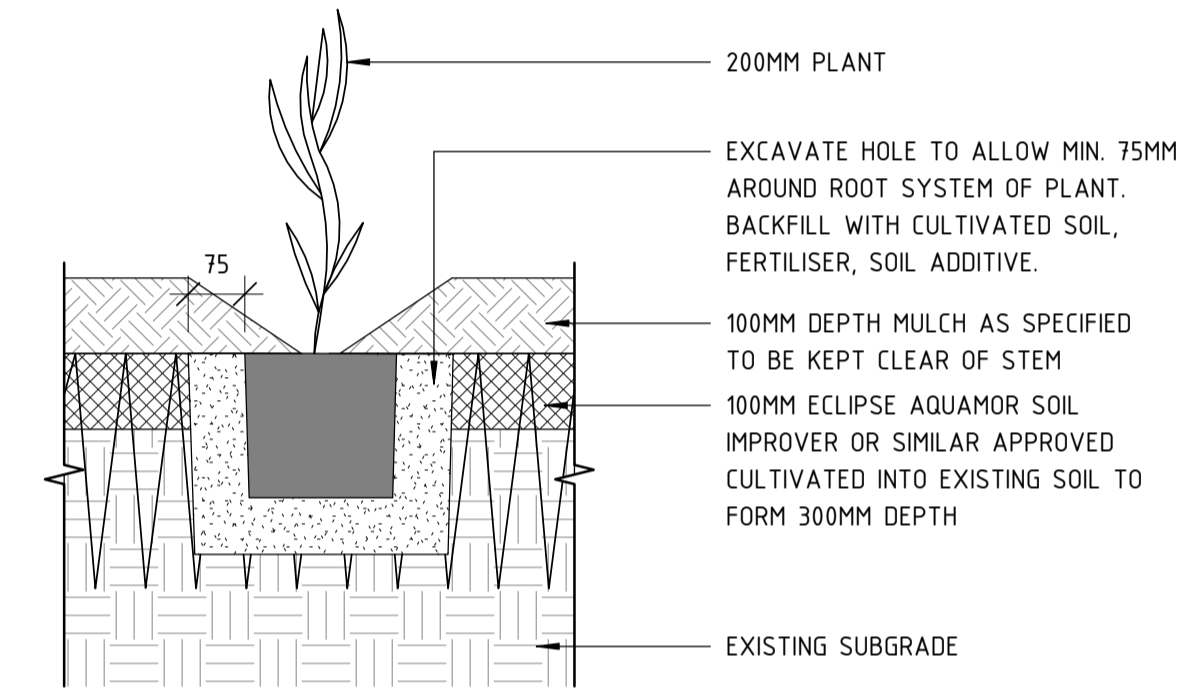
4 ROLL-ON TURF (TUR-01A)
1 : 10



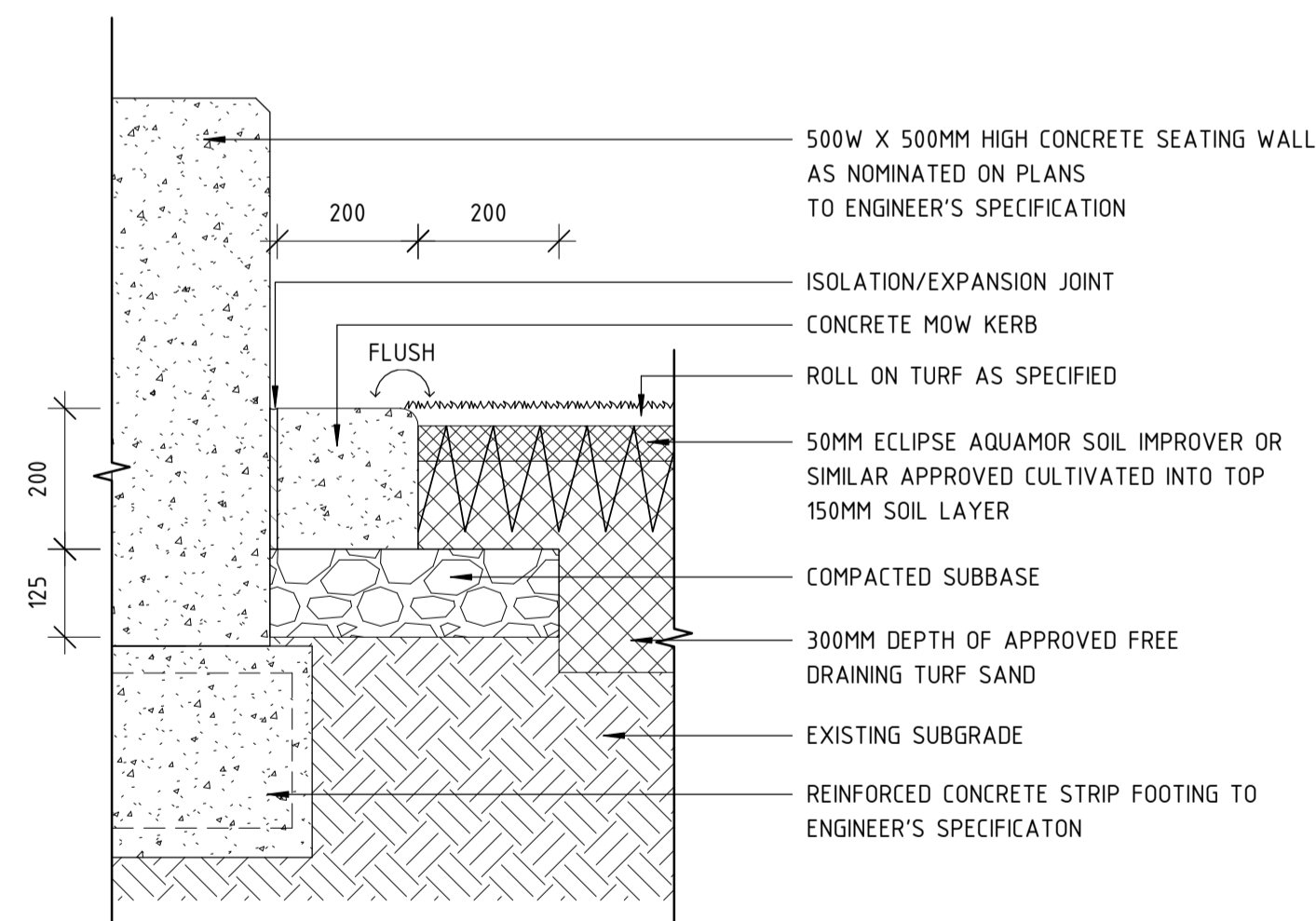
5 50MM TUBESTOCK
1 : 10



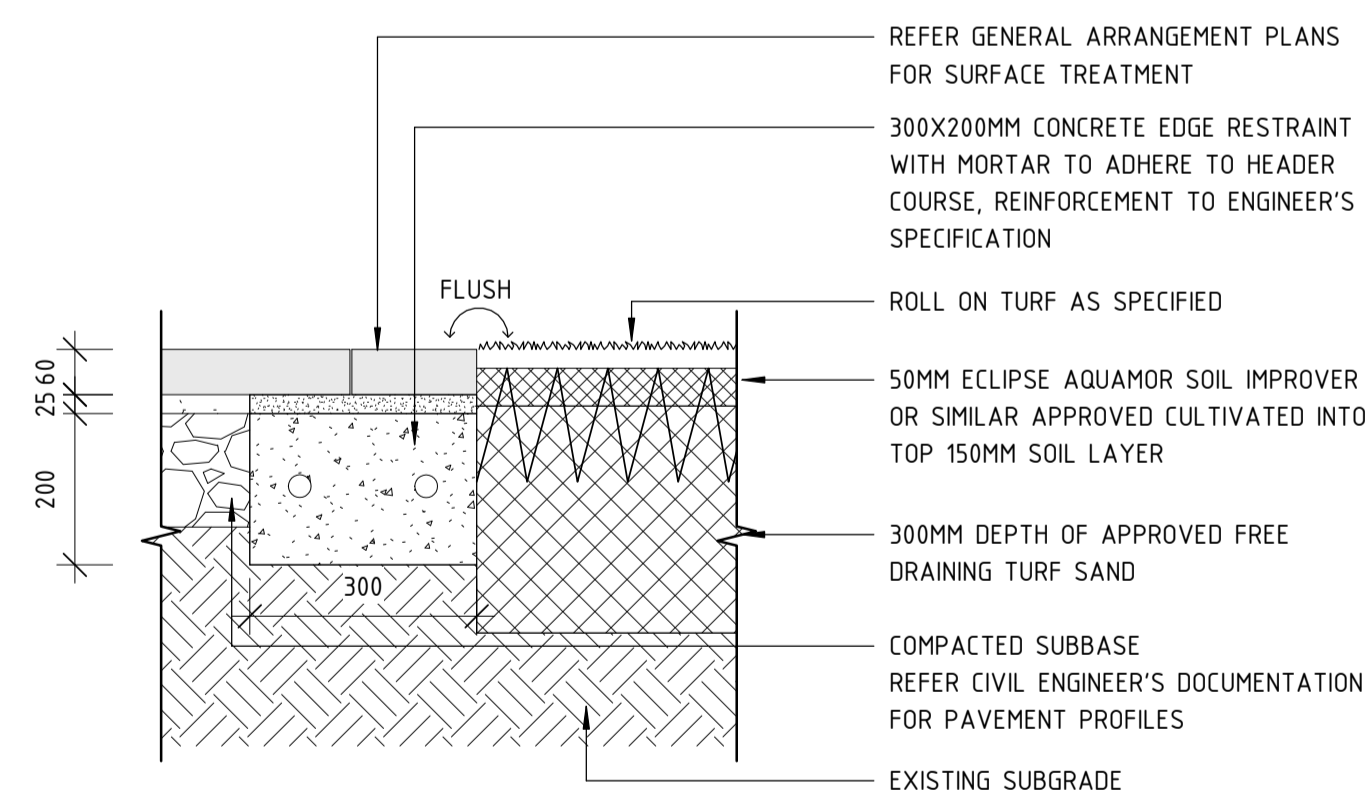
6 140MM PLANT
1 : 10



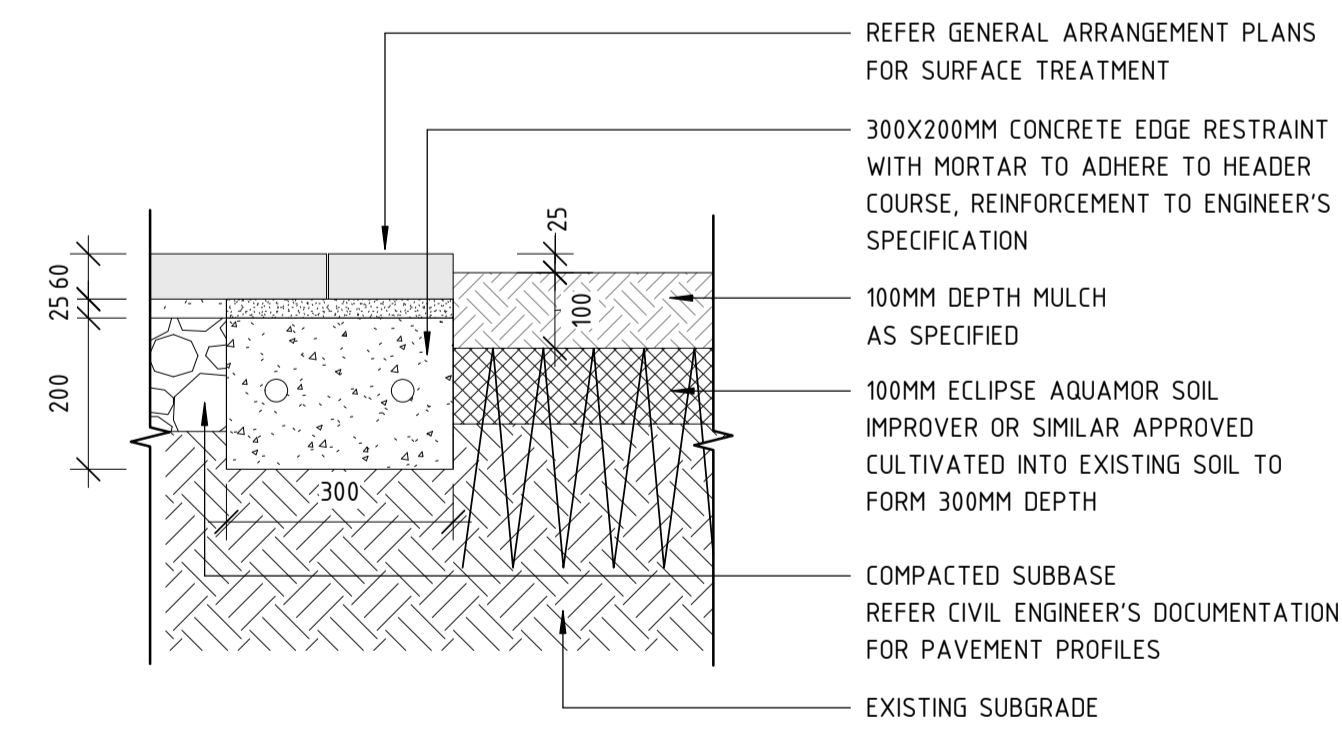
7 200MM PLANT
1 : 10



8 SEAT WALL / LAWN INTERFACE DETAIL
1 : 10



9 UNIT PAVEMENT / TURF INTERFACE DETAIL
1 : 10



10 UNIT PAVEMENT / GARDEN INTERFACE DETAIL
1 : 10

| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
|---|----------|-----------------------------|------|------|------|------|
| B | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
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Contractor No:R30-UDL-DWG-LA-230-02164 Rev: B

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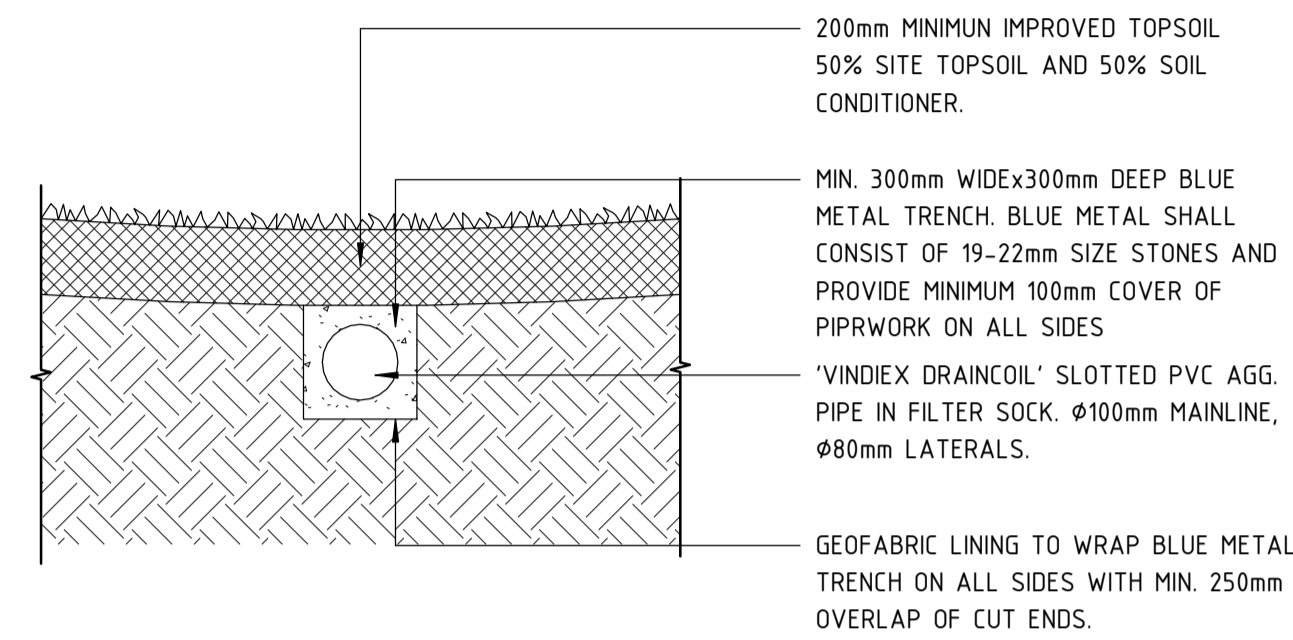
DETAILED DESIGN

BYFORD RAIL EXTENSION
 ARMADALE STATION PRECINCT
 LANDSCAPE
 SOFTSCAPE DETAILS 02
 PTA Drawing No: 11-A-107-LA10042

DESIGNED: D.Firns
 DRAWN: Y.Demissie
 CHECKED: M.Harris
 APPROVED: A.Eyres
 DATE: 02/06/23

Rev: B

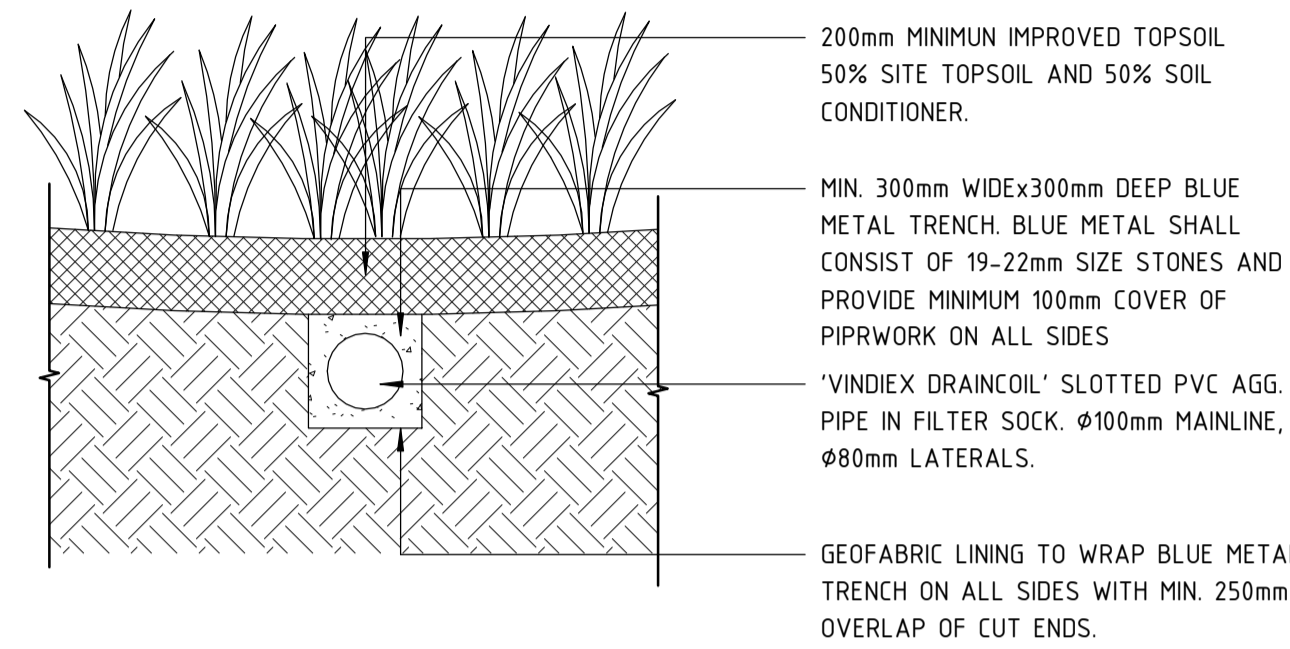
NOTE: ALL SUBSOIL DRAINAGE AS FOLLOW UNLESS NOTED OTHERWISE.
 100mm Ø 'VINDIEX DRAINCOIL' SLOTTED AG PIPE WRAPPED IN
 GEOTEXTILE FABRIC. LAY IN 300mm DEEP TRENCH BACKFILLED WITH
 STONE AGGREGATE(14mm) WITH MINIMUM100mm COVER IN TURF
 AREAS. MIN GRADE 1:400. GEOTEXTILE FABRIC TO BE BIDIM A14
 OR SIMILARLY APPROVED MATERIAL.



1 SUBSOIL DRAIN IN TURF

1 : 20

NOTE: ALL SUBSOIL DRAINAGE AS FOLLOW UNLESS NOTED OTHERWISE.
 100mm Ø 'VINDIEX DRAINCOIL' SLOTTED AG PIPE WRAPPED IN
 GEOTEXTILE FABRIC. LAY IN 300mm DEEP TRENCH BACKFILLED WITH
 STONE AGGREGATE(14mm) WITH MINIMUM100mm COVER IN TURF
 AREAS. MIN GRADE 1:400. GEOTEXTILE FABRIC TO BE BIDIM A14
 OR SIMILARLY APPROVED MATERIAL.



2 SUBSOIL DRAIN IN PLANTING

1 : 20

| | | | | | | |
|-----|----------|-----------------------------|------|------|------|------|
| REV | DATE | AMENDMENT | DSN | DRN | CHK | APP |
| B | 02.06.23 | ISSUED FOR IDD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |
| A | 10.02.23 | ISSUED FOR RD - PTA REVIEW | D.F. | Y.D. | M.H. | A.E. |

ORIG SIZE **A1** AT ORIGINAL PLOT SIZE

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| REFERENCES | SCALE AS SHOWN | DESIGNED D.Firns |
| | DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71 | DRAWN Y.Demissie |
| | | CHECKED M.Harris |
| | | APPROVED A.Eyres |
| | | DATE 02/06/23 |

DETAILED DESIGN

BYFORD RAIL EXTENSION
ARMADALE STATION PRECINCT
LANDSCAPE
SOFTSCAPE DETAILS 03
 PTA Drawing No: 11-A-107-LA10043

Rev: B