



BINDOON TRAILS NETWORK - STAGE 1


DETAILED DESIGN DOCUMENTATION

TYPICAL LEGEND

TYPICAL TRAIL ATTRIBUTES


easy
← Easy Green Trail
Easy Green Climb


moderate
← Moderate Blue Trail
Moderate Blue Climb


difficult
← Difficult Black Trail
Difficult Black Climb


extreme
← Extreme Black Trail
Link to Extreme Black Trail

PROFILE TYPES

- PB Bench
- PC Clear and Compact
- PE Excavated
- PF Fill
- PN Natural Surface
- PR Retained

ELEMENT TYPE

- ERC Road Crossing
- EDM Demarcation
- EMT Merge
- EUT Unmerge
- EOP Optional Line
- ECO Corral
- EAR Armouring
- ECC Chicane
- ECH Choke
- EDP Decision Point
- ERT Retaining
- ESR Start Ramp

FEATURE TYPES

- FRR Roller
- FRH Roller Hipped
- FED Elevated Drop Off
- FEP Elevated Platform
- FJT Table Top Jump
- FJK Kicker Jump
- FJH Hipped Jump
- FJU Step Up Jump
- FJS Step Down Jump
- FOD Drop Off Obstacle
- FKG Rock Garden
- FRK Rock Rollover
- FET Elevated Timber Berm
- FEW Elevated Wall Ride
- FJM Demarcation Jump
- FML Landing
- FRD Rollable Step Down
- FOS Step Up Obstacle
- FMR Roll In
- FRM Demarcation Jump Roller
- FAR Armoured Root

MATERIAL TYPE

- MIS In Situ Soil
- MLS Locally Won Soil
- MIR In Situ Rock
- MLR Locally Won Rock
- MPB Imported Soil Blend

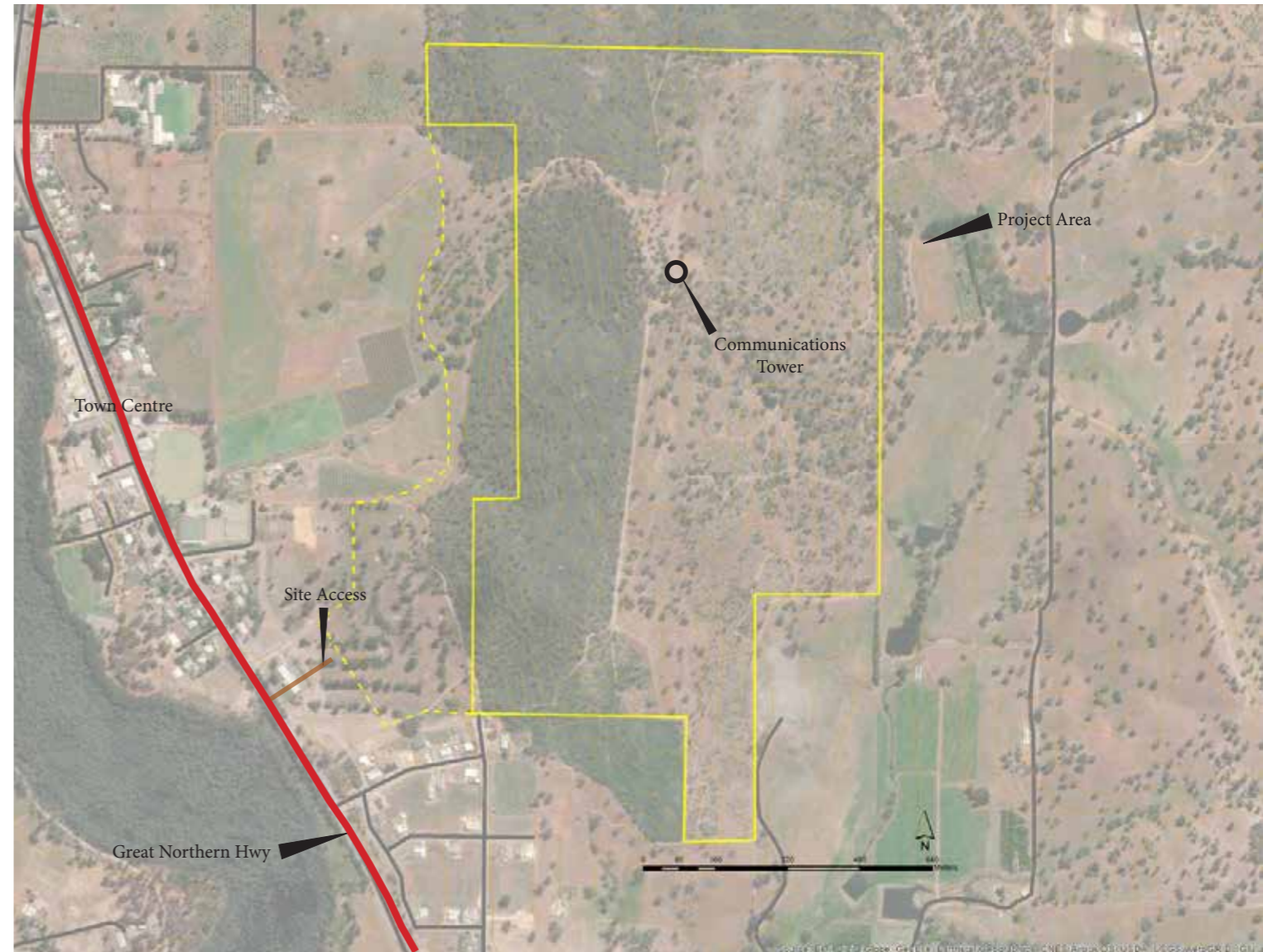
DRAINAGE TYPES

- DAS Rolling Dip Swale
- DRR Rolling Grade Dip
- DKN Knick
- DCP Culvert Pipe

TURN TYPES

- TDI Insloped Descending Turn
- TB Turn Berm
- TRC Rising Catch Turn
- TSC Climbing Switchback
- TC Climbing Turn
- TTC Technical Climbing Turn
- TCI Insloped Climbing Turn
- TI Insloped Turn
- TO Outsloped Turn
- TSP Platform Switchback

PROJECT AREA



TRAIL NETWORK SUMMARY

PROJECT OVERVIEW

The Bindoon Mountain Bike and Adventure Park Design Concept is intended to align with the Australian Mountain Bike Management Guideline principles where possible to ensure that a quality benchmark level development can be delivered to the broader West Australian mountain bike market segment.

The size (89.5ha) and topography of the subject site allows for a broad range of trail networks and trail difficulties to be included, essential to creating a marketable mountain biking and adventure product which can be used as a stimulus to the local tourism landscape by value adding to existing product and event schedules in the Shire of Chittering.

Broadly, the subject site dictates the mountain bike and walking trail development with descending trails forming most of the overall trail network. Using a baseline summit point as the apex from which the trails can be established, the site is then broken down into two developable locations.

- West of the Summit Point: Heavily vegetated and higher gradient which suits a range of blue/black mountain bike trails areas. This area whilst heavily vegetated can provide riders with an intense rider experience and also because of the vegetation, will have very little impact on the visual aspect of the subject site from the Bindoon town centre and Great Northern Highway, which will retain the existing rural amenity of the landscape.
- East of the Summit Point: Lightly vegetated allowing for more flexibility to decrease the intensity of the rider experience by easily following the contour lines to wash speed. Included in the East is also a pocket of mid-range vegetation, which can suit the next level of blue trails.

PROJECT AREA DESCRIPTION

The Shire of Chittering local economy is based on broad acre farming, orchards, small rural and semi-rural lifestyle residential properties. There is limited industry being extractive industry operations (gravel, clay and sand), the State livestock yards, mineral sands processing, shearing, tourist attractions, viticulture, wineries and other small businesses. The proposed Bindoon Mountain Bike and Adventure Park site at Lot 3874, Bindoon is set on 894,926 m² (89.49 Hectares) of undulating countryside and bushland with 360-degree views of the surrounding rural area.

The property known as 'Red Hill' (known to locals as 'Bindoon Hill') boasts an expansive 70-metre-high hill overlooking the Bindoon town centre, orchards, lakes, valleys, farmland and the Julimar State Forest.

The property forms an irregular shape, having a relatively steep topography throughout with a ridgeline extending through the centre of the site on a north to south alignment. The soils have a high gravel content, and the western side of the ridgeline is vegetated, whilst the eastern side has been partially cleared for grazing purposes.

The key arterial road to the property and Bindoon township from Perth is the Great Northern Highway (Highway 95). The recently completed NorthLink WA Tonkin Highway extension allows greater access from the Perth metropolitan area within 55 minutes and has significantly reduce the time to Bindoon from major Perth hubs.

Electricity, town water and telephone services are available at the south eastern corner of the property at Myrtle Way.

There are no established built formations on the property with the exception of a telecommunications tower (Optus Mobile Pty Ltd, Vodafone Network Pty Ltd) located on the northern end of the hill's crest.

SITE ANALYSIS

Topography

It is worth noting a mountain bike trail development on the subject site would offer a more aesthetically appealing outcome for the town, local community and visitors to Bindoon due to the relatively low impact on vegetation removal and general clearing required by mountain bike trails.

Retaining most of the existing topography would assist to maintain the natural look of the overall escarpment from the main visual corridor which is situated along the Great Northern Highway and Bindoon main street.

Site Constraints

The topography and gradient of the site and the elevation dictate that most development options for the site would be deemed too difficult and too expensive. Both valuations undertaken on the site support this notion and go as far as suggesting that broad agricultural development would also be difficult because of the topography.

The unique nature of mountain bike trail design relies on such topography and elevation, which is why this appropriately situated site has been proposed.

Access to the site is an issue. Part of the initial design concept offers a counter measure for this access by incorporating a portion of the land parcel, identified for future caravan park development. Further discussion surrounding this will need to take place, however there are a range of operational, development and construction synergies which would support this initiative.

Environmental Aspects

There have been no environmental sensitivities identified at Lot 3874, Bindoon throughout the course of this research study phase that may impact on a mountain bike development in Bindoon.

The mountain bike trails network and park design concept has been designed on an acute understanding of

environmental principles and working within the natural formations of the subject site to mitigate such issues as:

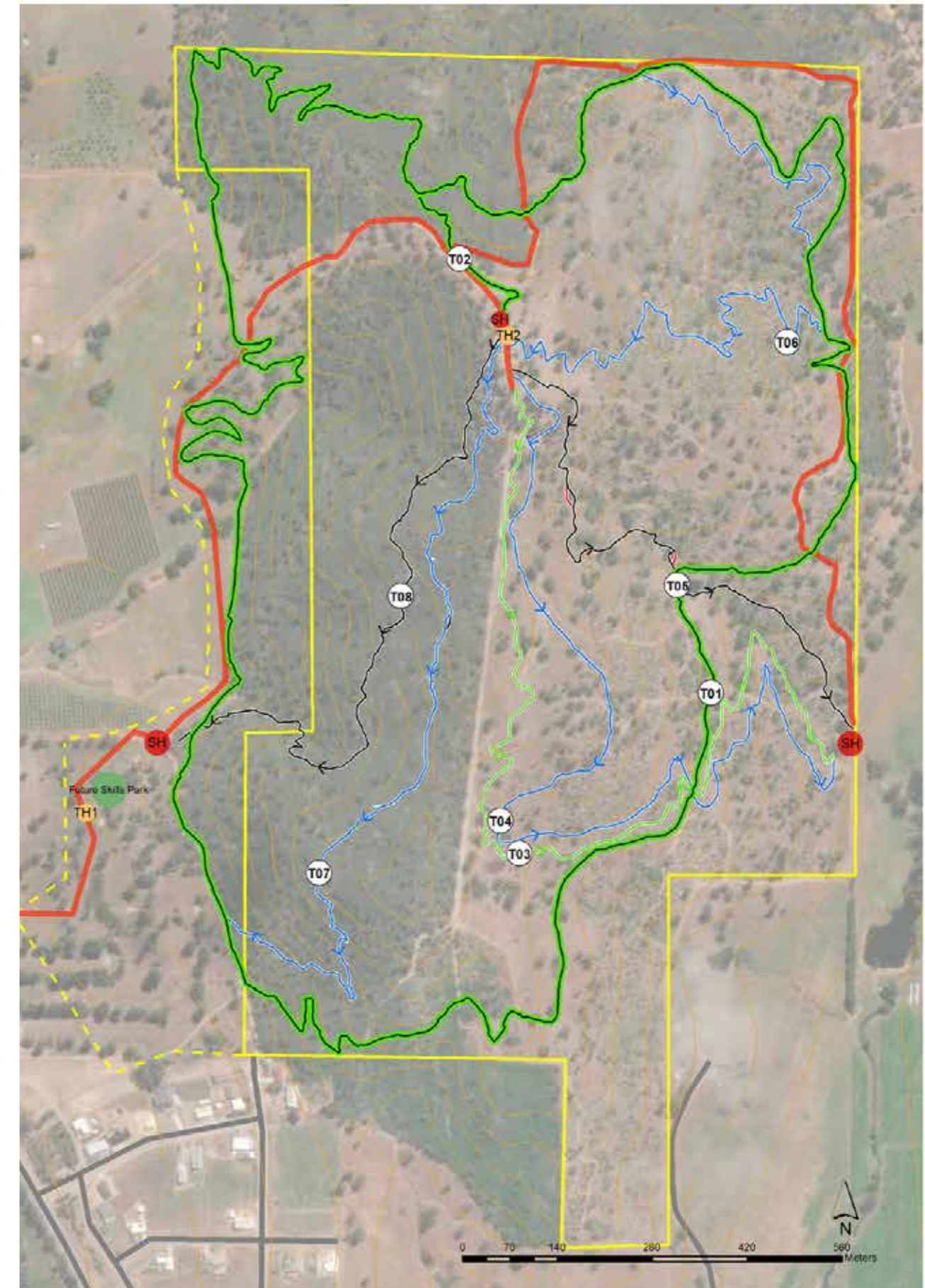
- Destabilisation of soils and slope
- Minimise vegetation clearing
- Minimise any potential spread of pathogens, diseases and weed

Although a preliminary high-level desk top assessment has not uncovered any major environmental risks or issues, a more detailed Flora and Fauna Assessment of the subject site will need to be commissioned as part of the overall detailed design process, should the proposed project be considered worthy of proceeding.

TRAIL NETWORK MAP

BREAKDOWN OF TRAILS

ID	NAME	CLASSIFICATION/ GRADE	TRAIL TYPE/ USE	TRAIL STYLE	LENGTH (m)
MTB Trails					
T01	Green Loop	Easy-Green Circle	XC/ Walking	Open	5,223
T02	Green Link	Easy-Green Circle	XC/ Walking	Open	231
T03	Green Downhill	Easy-Green Circle	XC	Flow	1,470
T04	Blue Downhill	Moderate-Blue Square	XC/ AM	Flow	1,502
T05	Black Downhill	Difficult-Black Dia-	XC/ AM	Flow	941
T06	Blue XC	Moderate-Blue Square	XC	Open	1,443
T07	Blue Downhill	Moderate-Blue Square	AM	Flow	1,229
T08	Black Downhill	Difficult-Black Dia-	AM	Technical	959
Total Trails					12,998

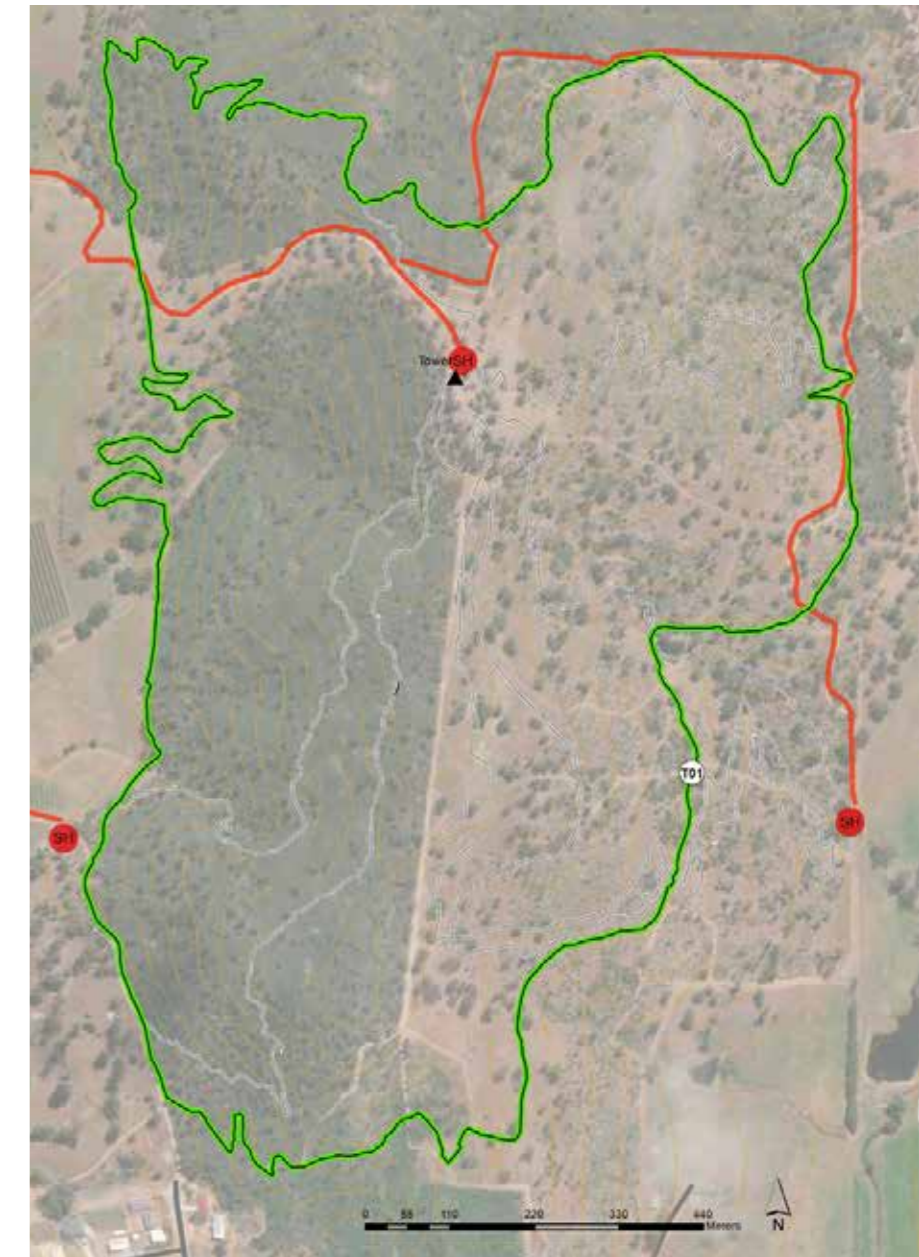




TRAIL DESCRIPTION

Trail 01 is a 5,223m long shared use loop trail. Riders will ride this trail in a clockwise direction to the start or trails and return them to shuttle heads. Walkers can use T01 as a dual direction trail.

TRAIL ID	01
Grade of Walk	Grade 2/ Dual Direction
Quality of Path	Formed track
Quality of Markings	Clearly sign posted
Experience Required	No Experience required
Time	NA
Steps	NA
Classification	Easy- Green Circle
Strategic Value	High
Trail Type	XC/ Walking
Trail Style	Open
Finished Tread Width	2500mm
Trail Width and Finish	Gravel
Use	Walking, bicycle and hand cycle
Direction	Generally single direction. Short sections of dual direction
Ascending / Descending	Both
Corridor Width	5m
Trail Length	5,223m
Average Gradient	
Trail Features	NA
Notes	



CONSTRUCTION

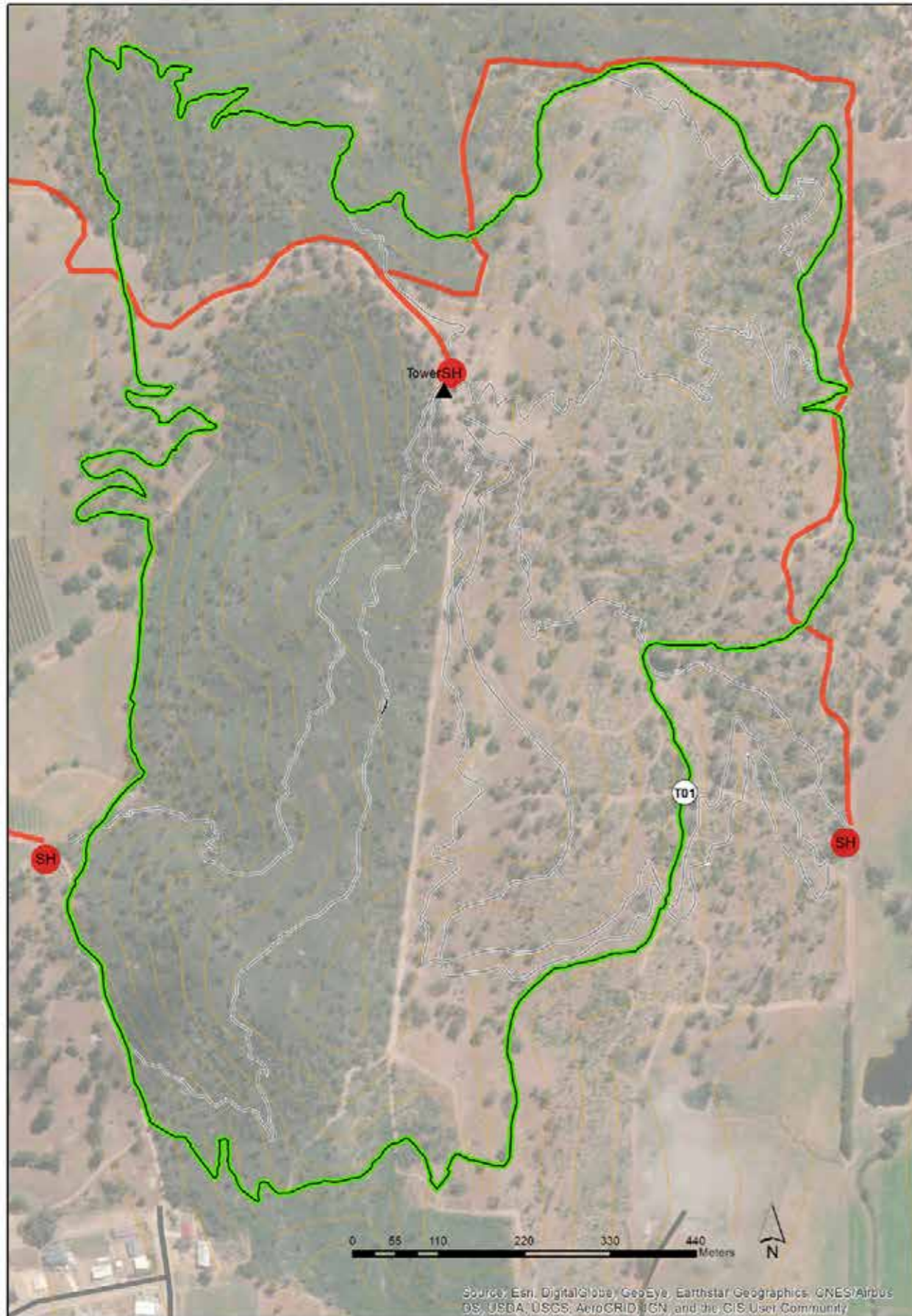
TRAIL MACHINERY AND IMPORTED FILL VOLUMES

- Machinery
- 2 Tonne Excavator
 - 1.2m wide Rubber Track Loader
- Fill
- NA

CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.





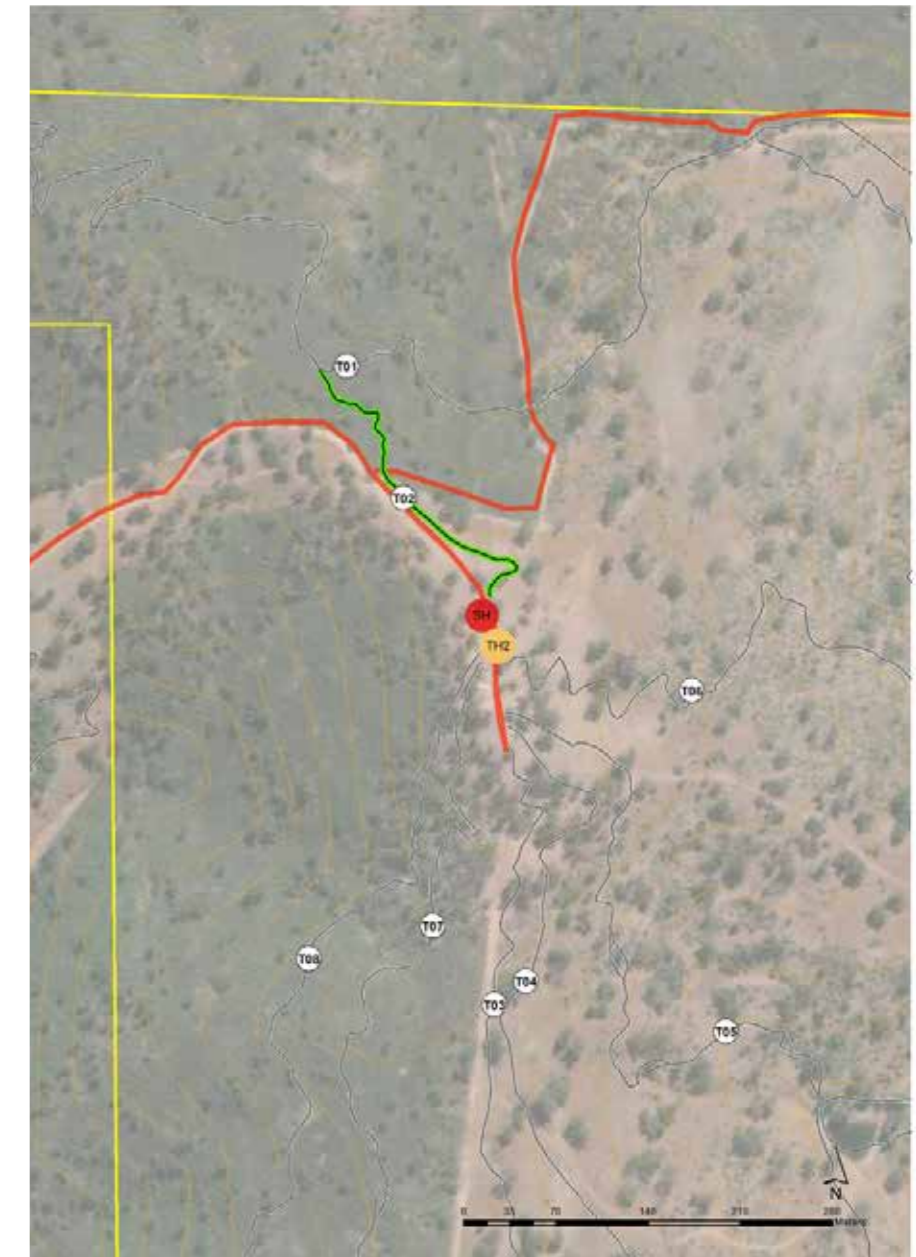
TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T01	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T01	ELEMENT	2	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS



TRAIL DESCRIPTION

Trail 02 is a 231m long shared use link trail. This trail has been proposed to deliver riders and walkers to the summit where there are further trail options.

TRAIL ID	02
Grade of Walk	Grade 2
Quality of Path	Formed track
Quality of Markings	Clearly sign posted
Experience Required	No Experience required
Time	NA
Steps	NA
Classification	Easy- Green Circle
Strategic Value	High
Trail Type	XC/ Walking
Trail Style	Open
Finished Tread Width	2500mm
Trail Width and Finish	Gravel
Use	Walking, bicycle and hand cycle
Direction	Dual Direction
Ascending / Descending	Both
Corridor Width	5m
Trail Length	231m
Average Gradient	
Trail Features	NA
Notes	



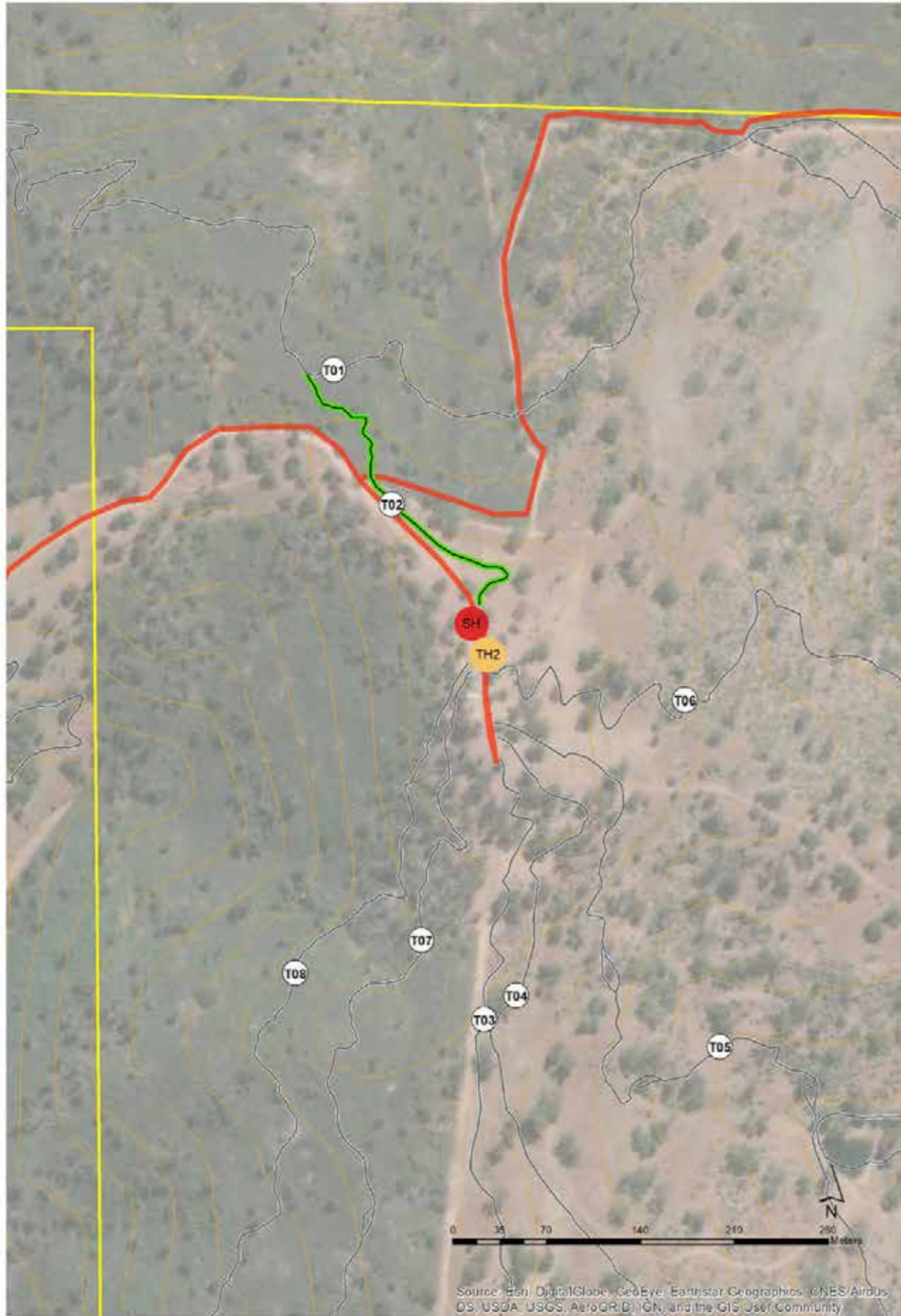
CONSTRUCTION

TRAIL MACHINERY AND IMPORTED FILL VOLUMES

- Machinery
- 2-5 Tonne Excavator
 - 2m wide Rubber Track Loader
- Fill
- NA

CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.



TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T02	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T02	ELEMENT	2	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS



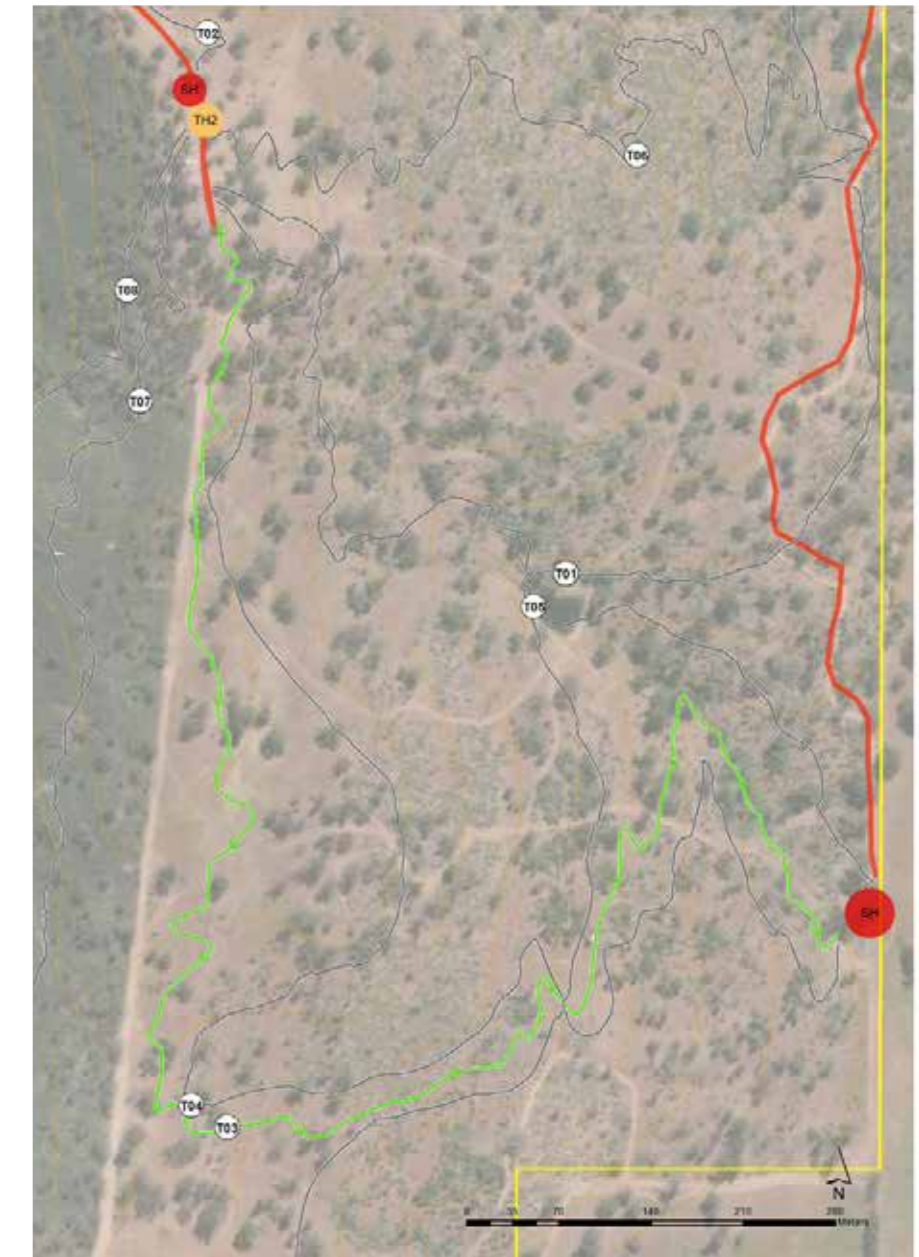
TRAIL ID 03

TRAIL DESCRIPTION

Trail 03 is a 1,470m long easy - green descending mountain bike trail.

TRAIL ID	03
Classification	Easy- Green Circle
Strategic Value	High
Trail Type	XC
Trail Style	Flow
Finished Tread Width	1200mm
Trail Width and Finish	Loam and gravel
Use	Bicycle
Direction	Single Direction
Ascending / Descending	Descending
Corridor Width	5m
Trail Length	1470m
Average Gradient	
Trail Features	Rock rollovers, climbing turns, step ups
Notes	

URNS	VERTICAL CHANGE	OBSTACLES
Berm	Grade Reversal	Rock Armouring



CONSTRUCTION

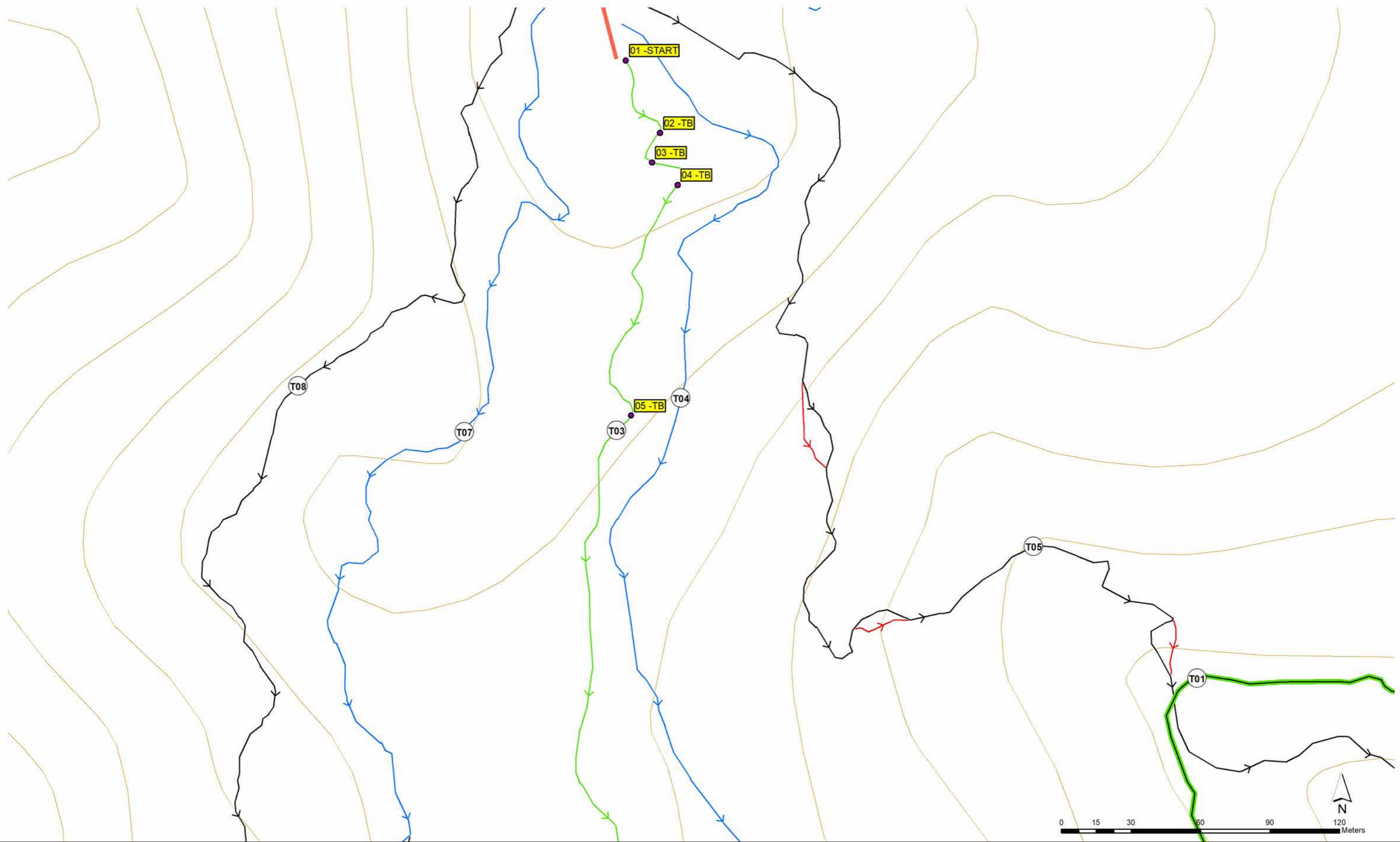
TRAIL MACHINERY AND IMPORTED FILL VOLUMES

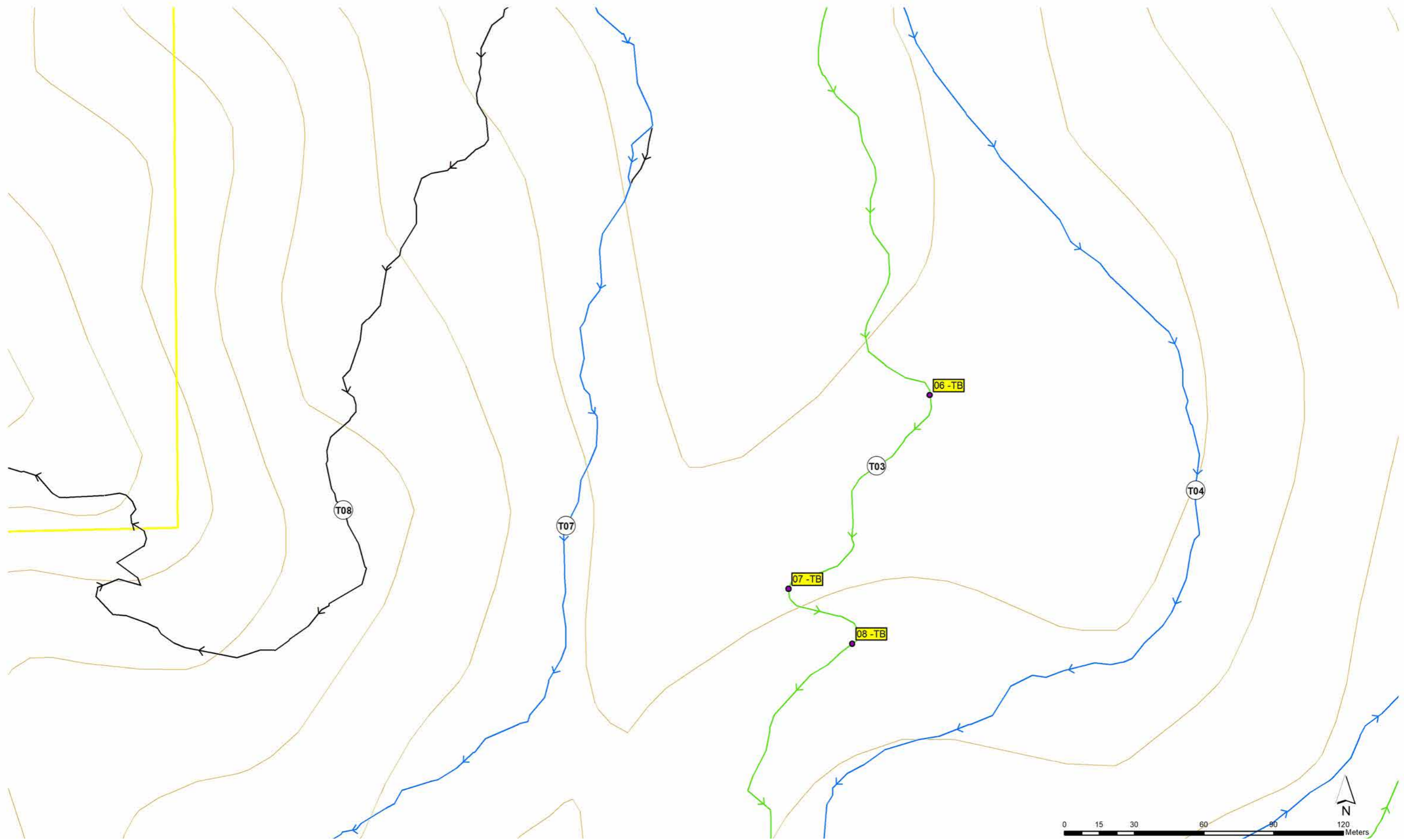
- Machinery
- 2-10 Tonne Excavator
 - 2m wide Rubber Track Loader
 - Wheeled Loader
 - Wheeled Site Dumper

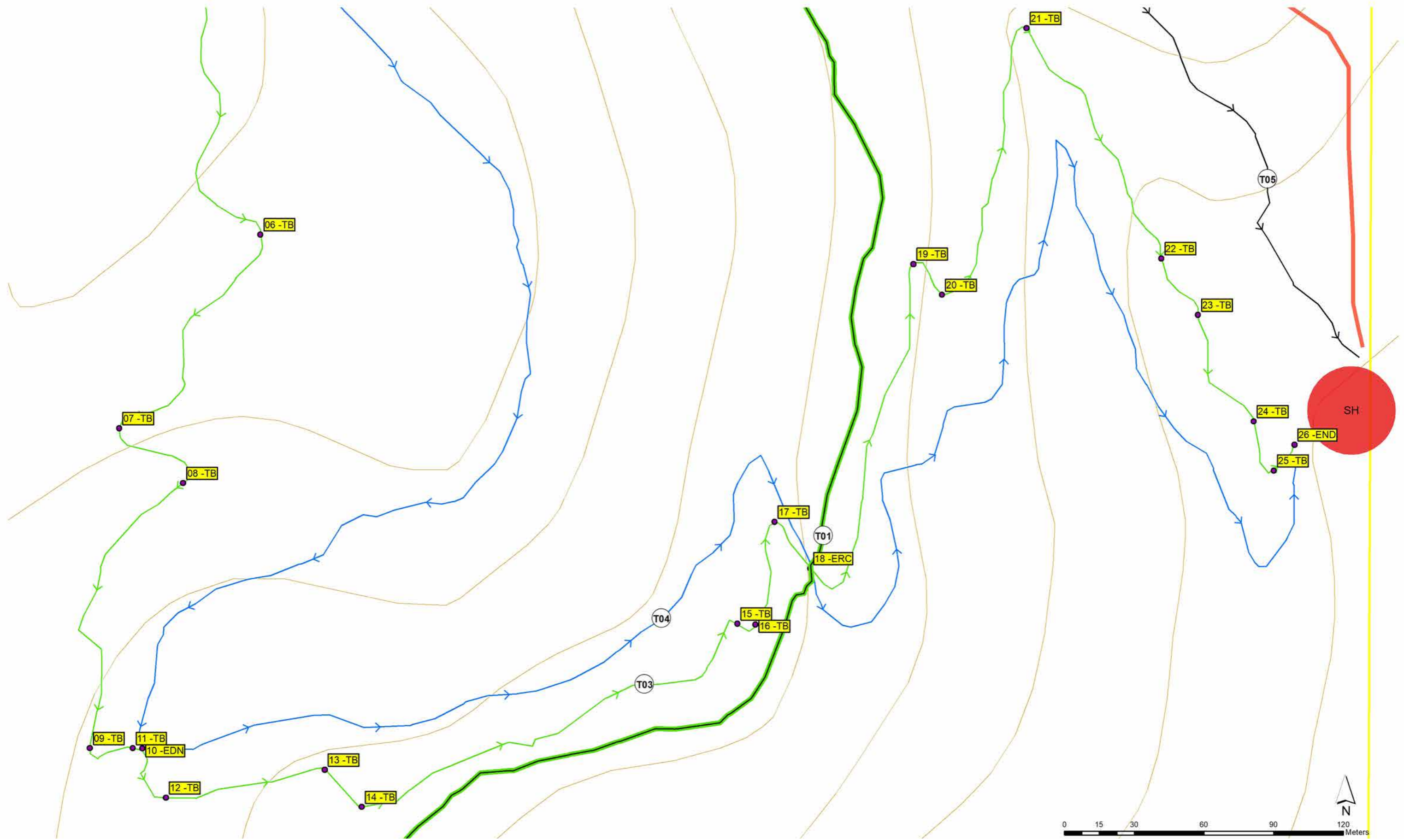
CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.









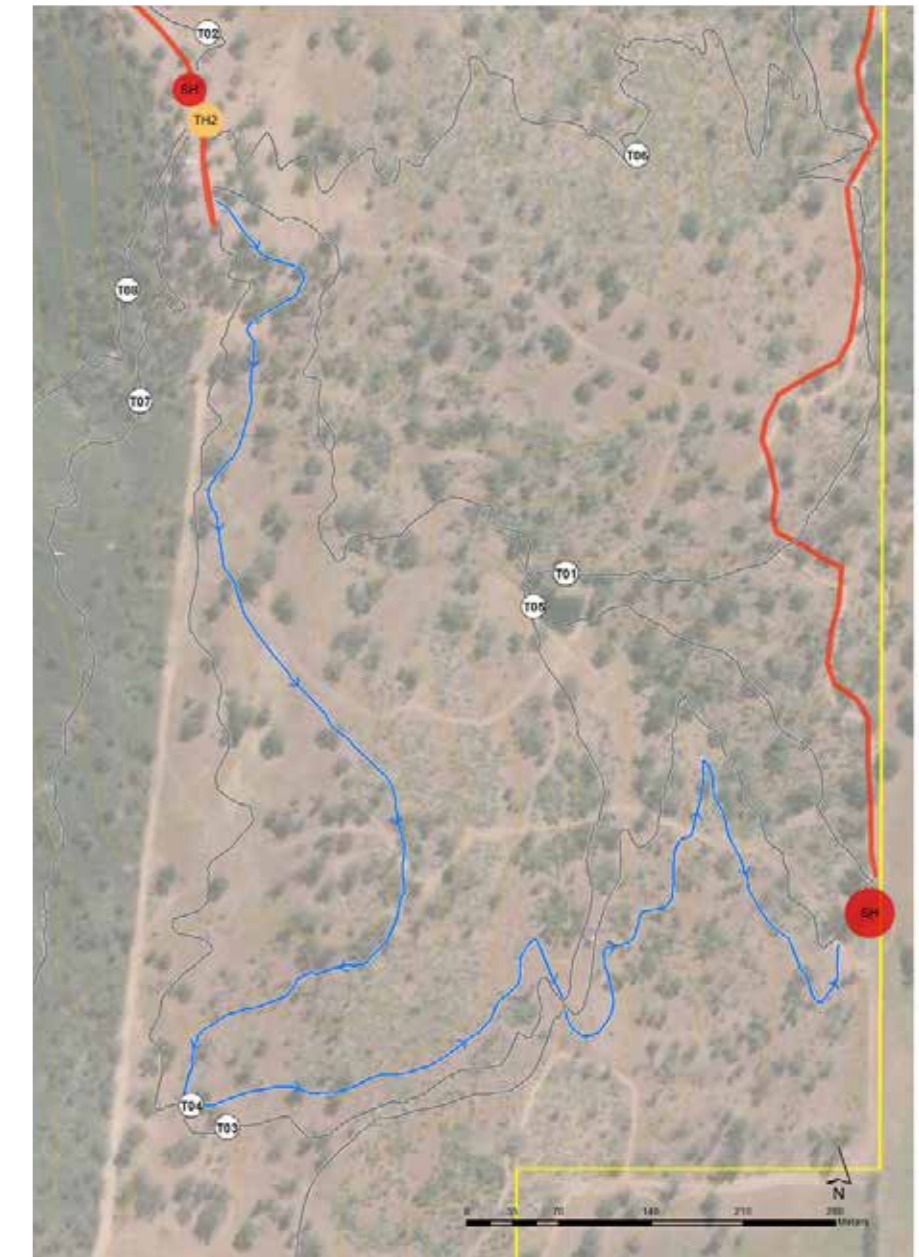
TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T03	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	2	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	3	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	4	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	5	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	6	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	7	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	8	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	9	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	ELEMENT	10	EDN	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	11	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	12	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	13	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	14	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	15	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	16	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	17	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	ELEMENT	18	ERC	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	19	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	20	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	21	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	22	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	23	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	24	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	25	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	ELEMENT	26	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS

TRAIL DESCRIPTION

Trail 04 is a 1,502m long moderate - blue descending mountain bike trail.

TRAIL ID	04
Classification	Moderate – Blue Square
Strategic Value	High
Trail Type	XC/ AM
Trail Style	Flow
Finished Tread Width	1000mm
Trail Width and Finish	Loam and gravel
Use	Bicycle
Direction	Single Direction
Ascending / Descending	Descending
Corridor Width	5m
Trail Length	1502m
Average Gradient	
Trail Features	Rock rollovers, step ups
Notes	

TURNS	VERTICAL CHANGE	OBSTACLES
Insloped Descending Turn Outsloped Descending Turn Descending Switchback Rising Catch Turn Technical Inside Line	Kicker Jump Tabletop Jump Rollers Step Up Jump Step Down Jump Grade Reversal Obstacle Drop Off Obstacle Step Up	Rock Rollover Technical Roll In Exposed Bedrock



CONSTRUCTION

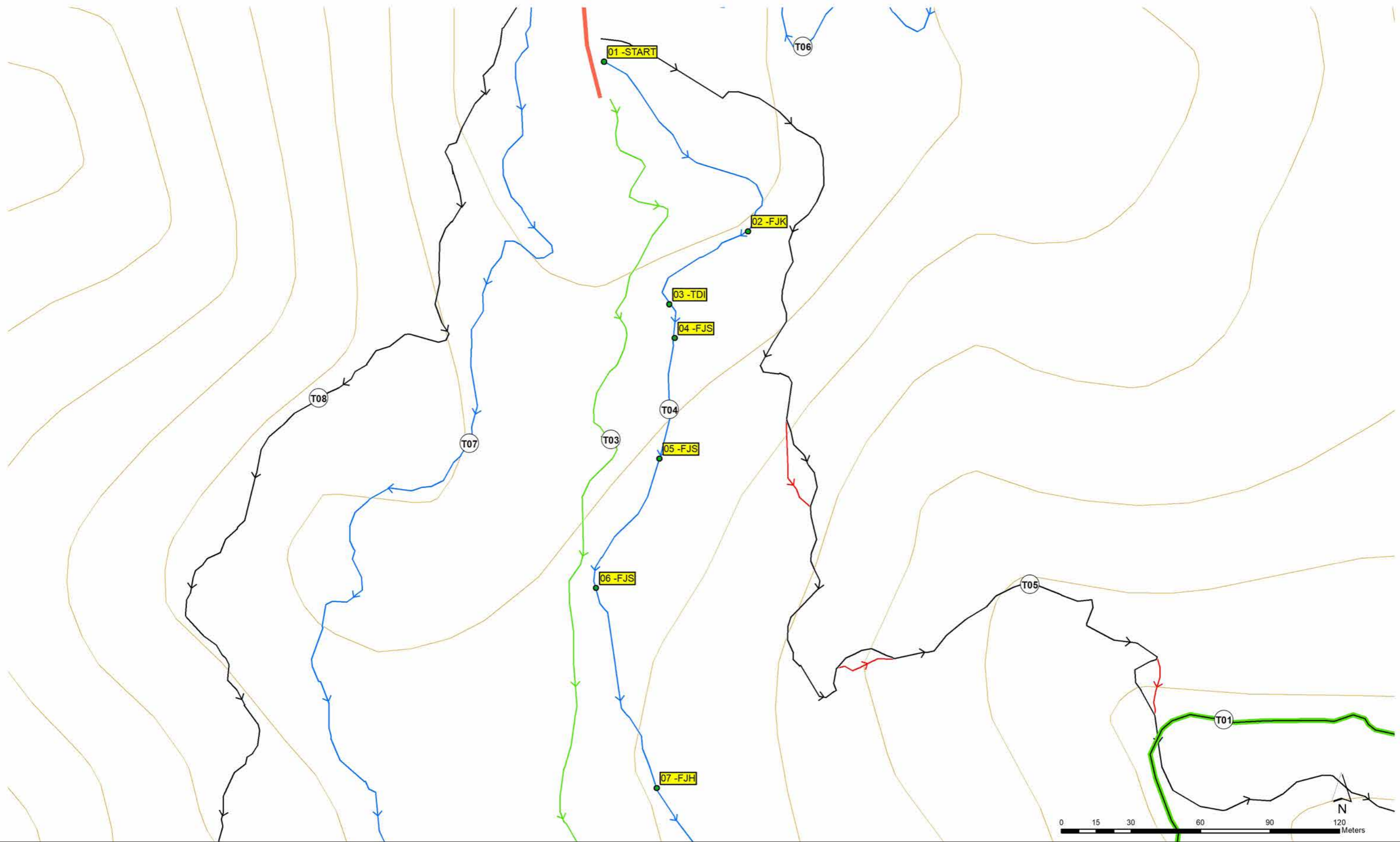
TRAIL MACHINERY AND IMPORTED FILL VOLUMES

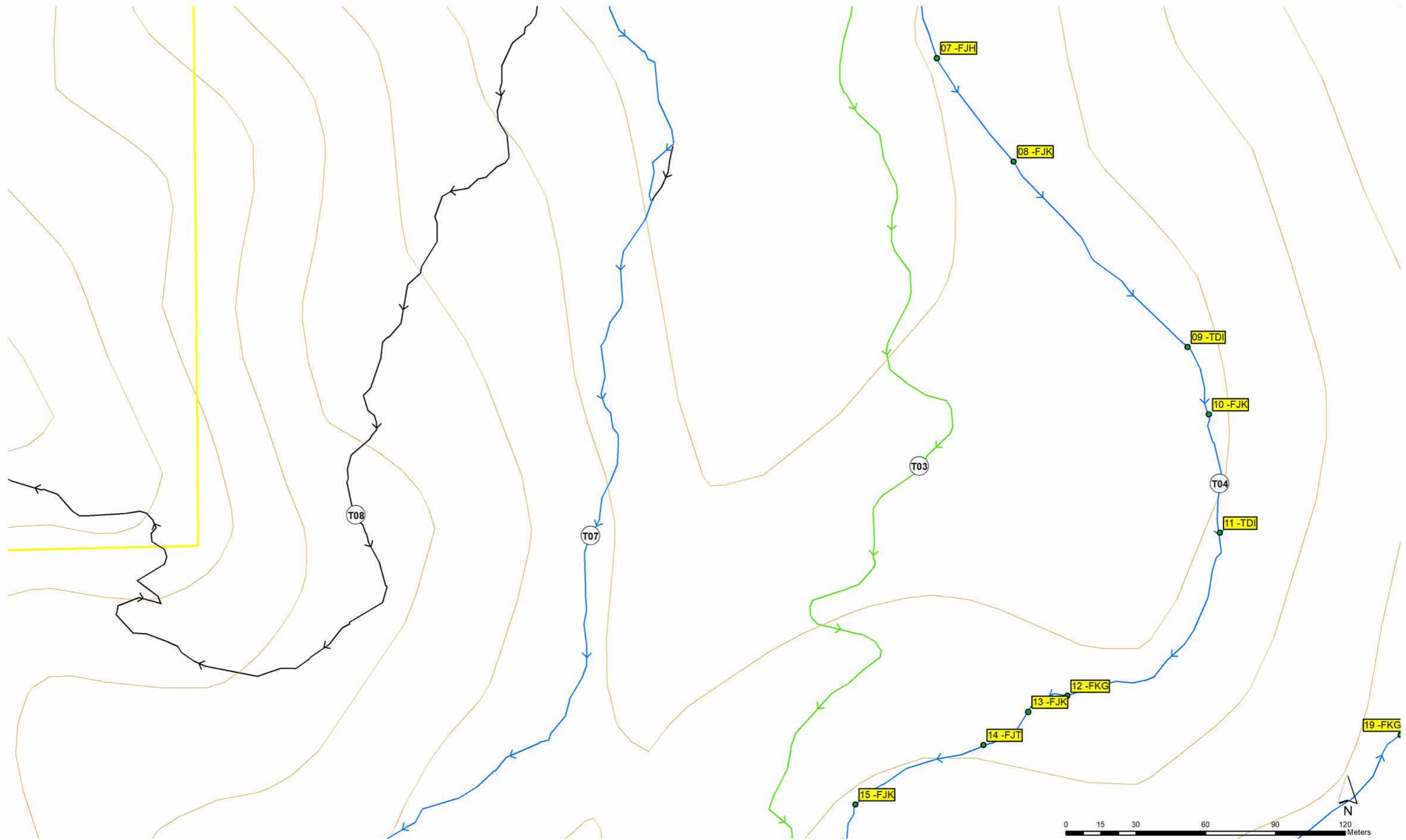
- Machinery
- 2-10 Tonne Excavator
 - 2m wide Rubber Track Loader
 - Wheeled Loader
 - Wheeled Site Dumper
- Fill
- Volume of Imported Soil Blend – 870m³

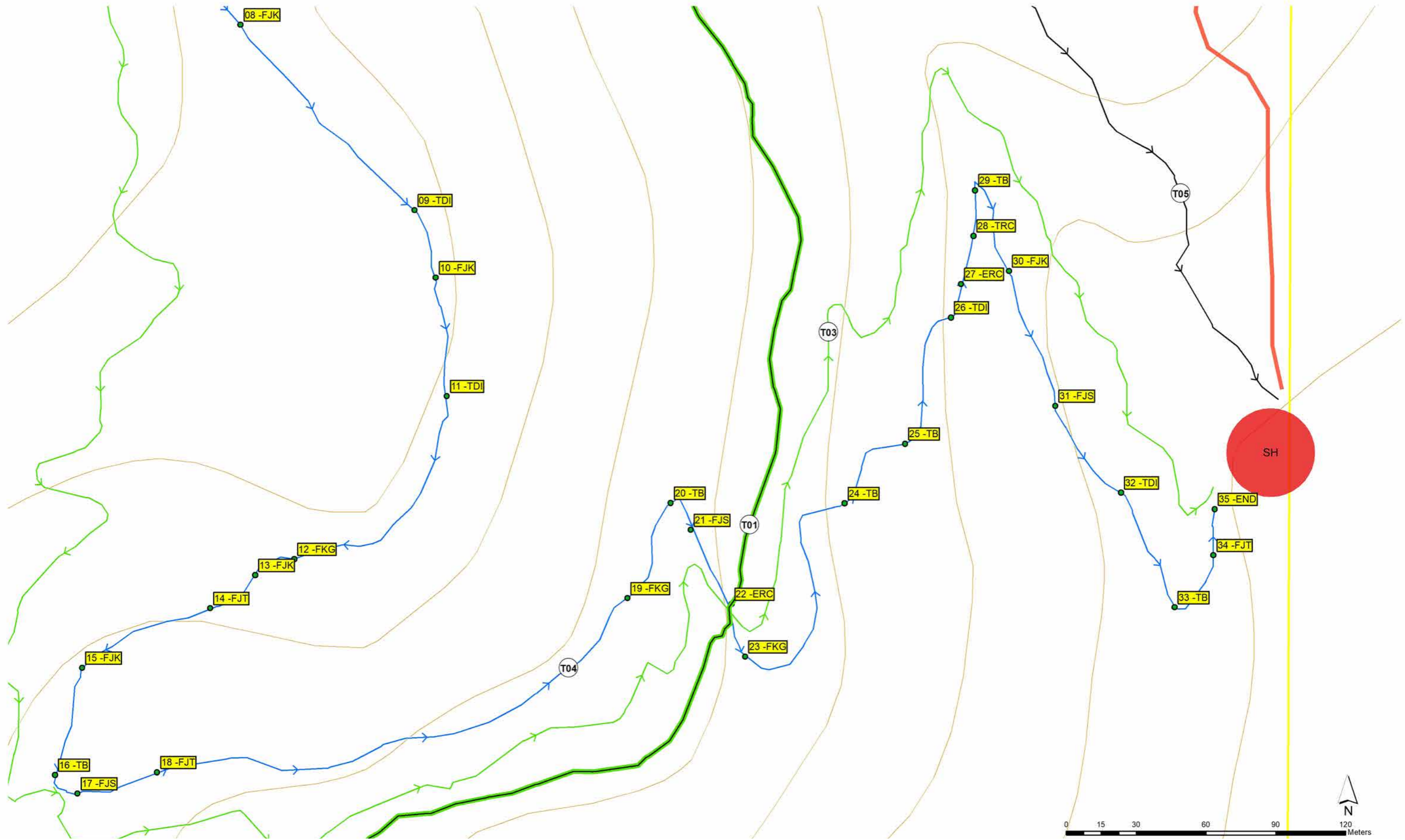
CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.









TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T04	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	2	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	3	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	4	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	5	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	6	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	7	FJH	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	8	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	9	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	10	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	11	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	12	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	13	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	14	FJT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	15	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	16	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	17	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	18	FJT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	19	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	20	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	21	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	ELEMENT	22	ERC	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	23	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	24	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	25	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	26	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	ELEMENT	27	ERC	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	28	TRC	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	29	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	30	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	31	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	32	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	TURN	33	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	FEATURE	34	FJT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T04	ELEMENT	35	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS

TRAIL DESCRIPTION

Trail 05 is a 941m long difficult - black descending mountain bike trail.

z

TRAIL ID	05
Classification	Difficult – Black Diamond
Strategic Value	High
Trail Type	XC/ AM
Trail Style	Flow
Finished Tread Width	600mm
Trail Width and Finish	Loam and gravel
Use	Bicycle
Direction	Single Direction
Ascending / Descending	Descending
Corridor Width	5m
Trail Length	941m
Average Gradient	
Trail Features	Rock rollovers, step down jumps and rock gardens
Notes	Option to ride Extreme- Double Black Diamond optional lines

URNS	VERTICAL CHANGE	OBSTACLES
Insloped Descending Turn Outsloped Descending Turn Descending Switchback Rising Catch Turn Technical Inside Line	Kicker Jump Tabletop Jump Rollers Step Up Jump Step Down Jump Grade Reversal Obstacle Drop Off Obstacle Step Up	Rock Rollover Technical Roll In Exposed Bedrock

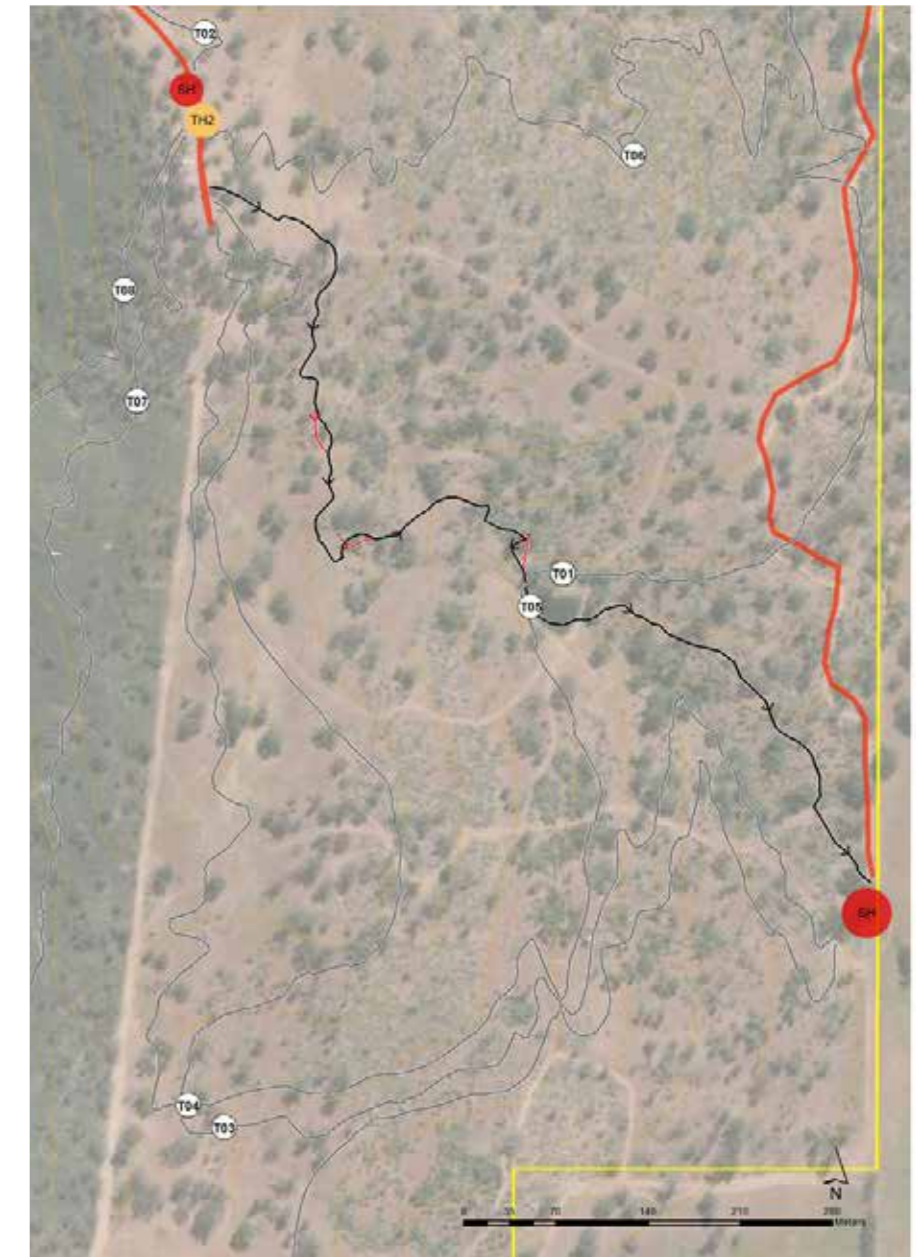
CONSTRUCTION

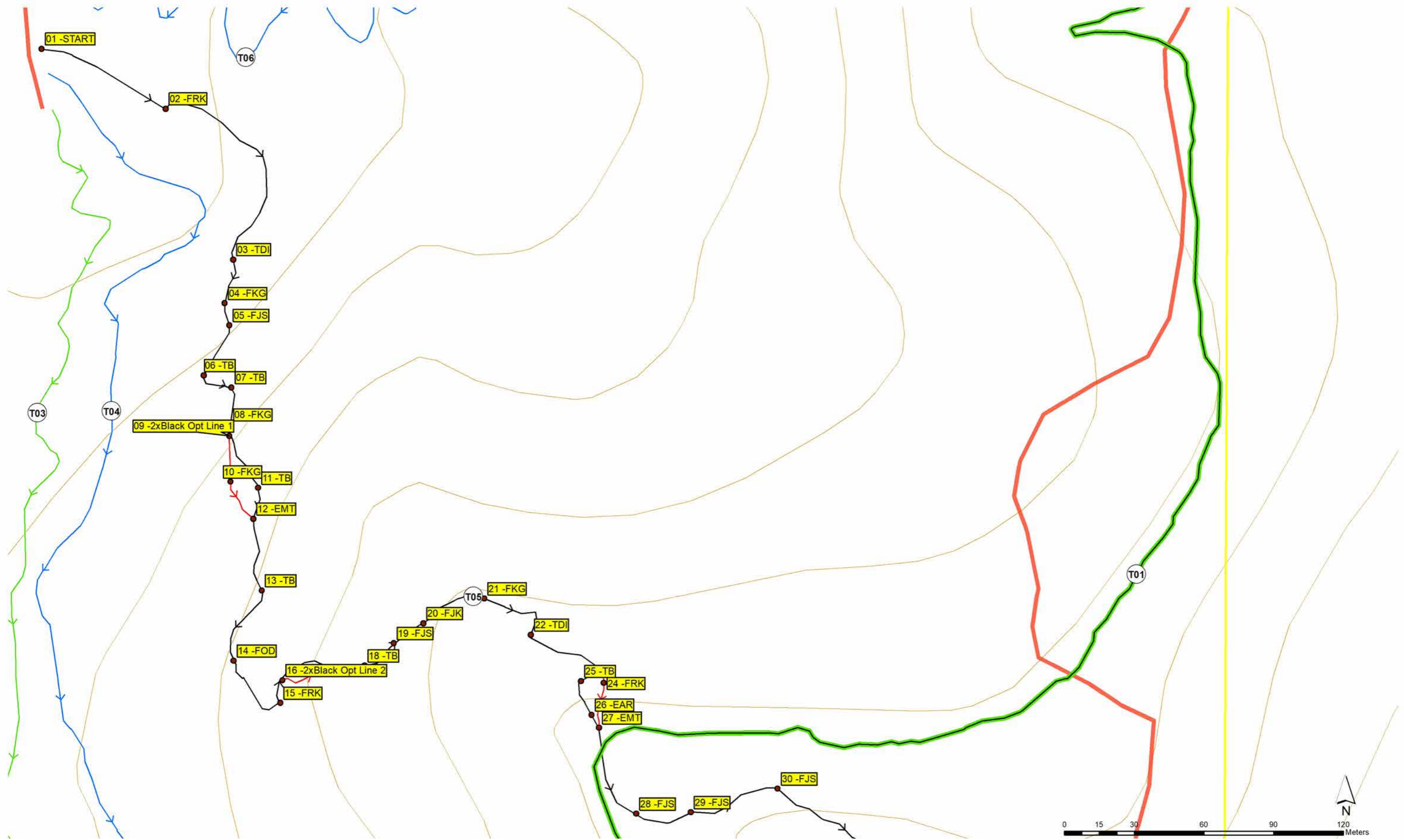
TRAIL MACHINERY AND IMPORTED FILL VOLUMES

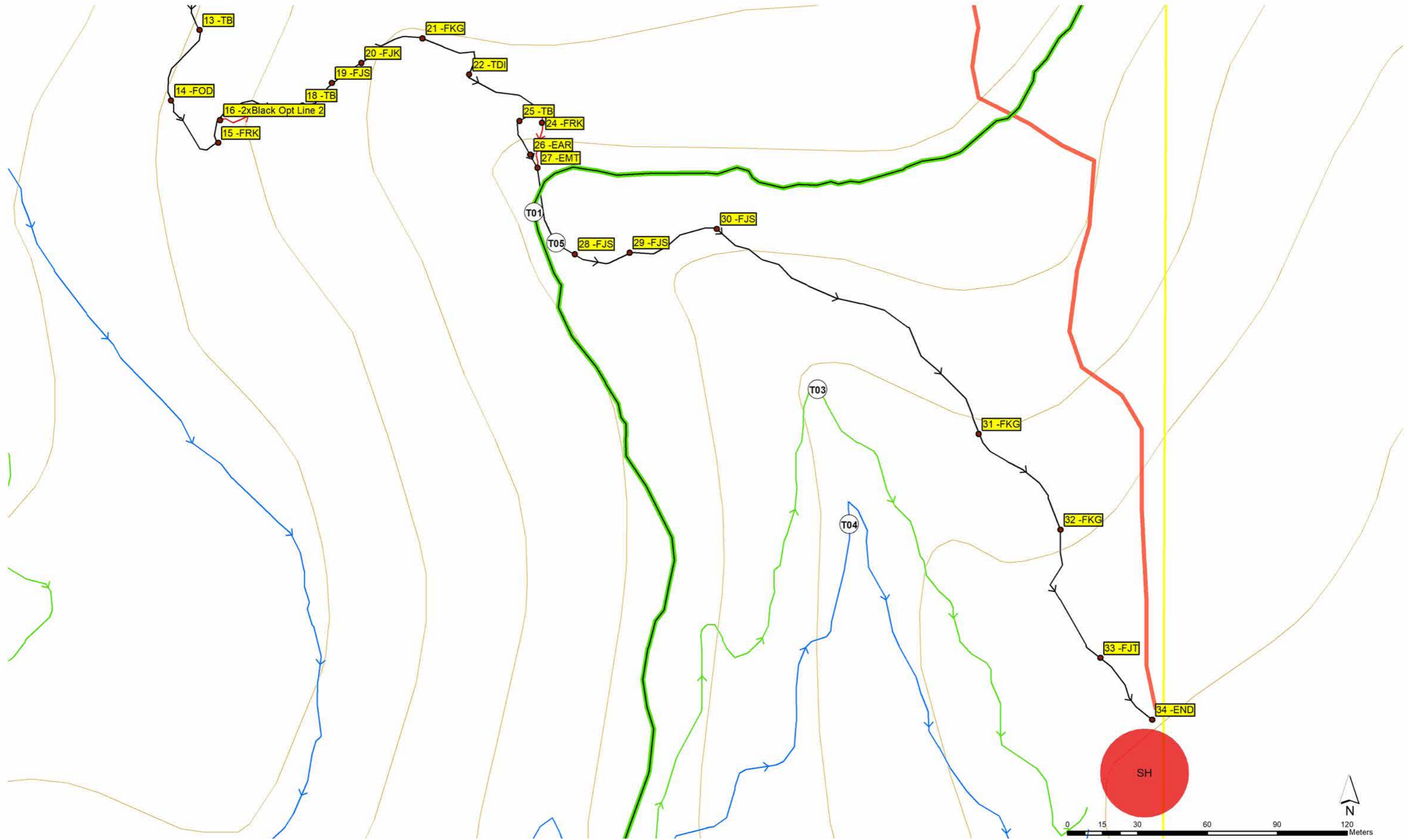
- Machinery
- 2 Tonne Excavator
 - 1.5m wide Rubber Track Loader
- Fill
- NA

CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.







TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T05	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	2	FRK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	3	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	4	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	5	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	6	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	7	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	8	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	ELEMENT	9	2xBlack Opt Line 1	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	10	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	11	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	ELEMENT	12	EMT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	13	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	14	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	15	FOD	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	16	FRK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	ELEMENT	17	2xBlack Opt Line 2	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	18	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	19	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	20	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	21	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	22	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	ELEMENT	23	2xBlack Opt Line 3	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	24	FRK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	TURN	25	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	ELEMENT	26	EAR	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	ELEMENT	27	EMT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	28	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	29	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	30	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	31	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	32	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	FEATURE	33	FJT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T05	ELEMENT	34	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS

TRAIL DESCRIPTION

Trail 06 is a 1,443m long moderate - blue cross country mountain bike trail.

TRAIL ID	06
Classification	Moderate – Blue Square
Strategic Value	High
Trail Type	XC
Trail Style	Open
Finished Tread Width	600mm
Trail Width and Finish	Loam and gravel
Use	Bicycle
Direction	Single Direction
Ascending / Descending	Ascending/ Descending
Corridor Width	5m
Trail Length	1443m
Average Gradient	
Trail Features	
Notes	



CONSTRUCTION

TRAIL MACHINERY AND IMPORTED FILL VOLUMES

Machinery

- 2 Tonne Excavator
- 1.5m wide Rubber Track Loader

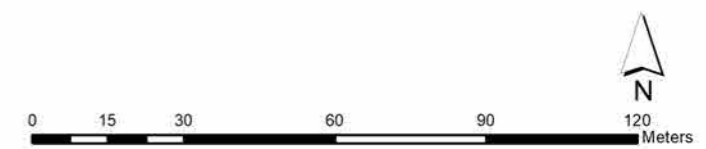
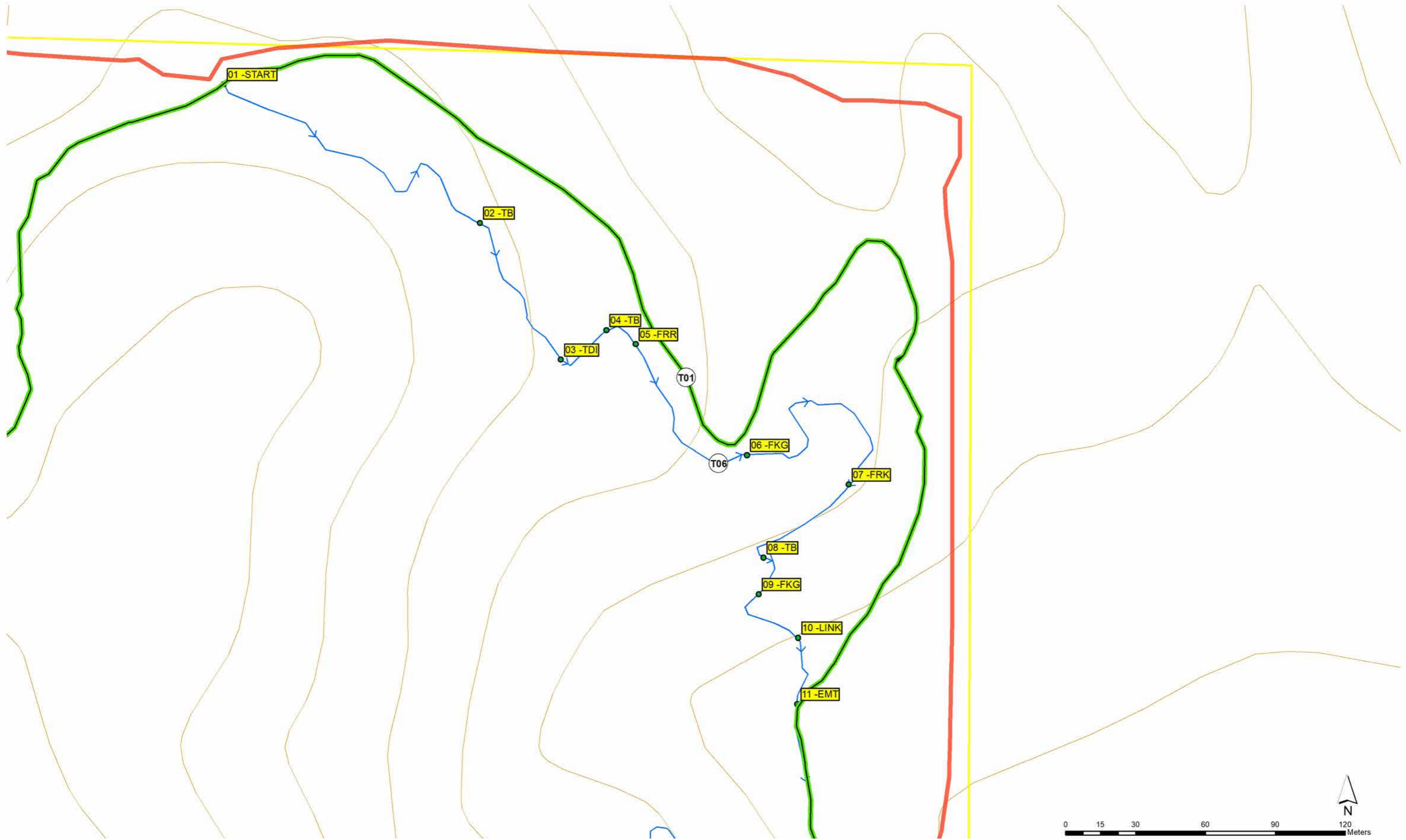
Fill

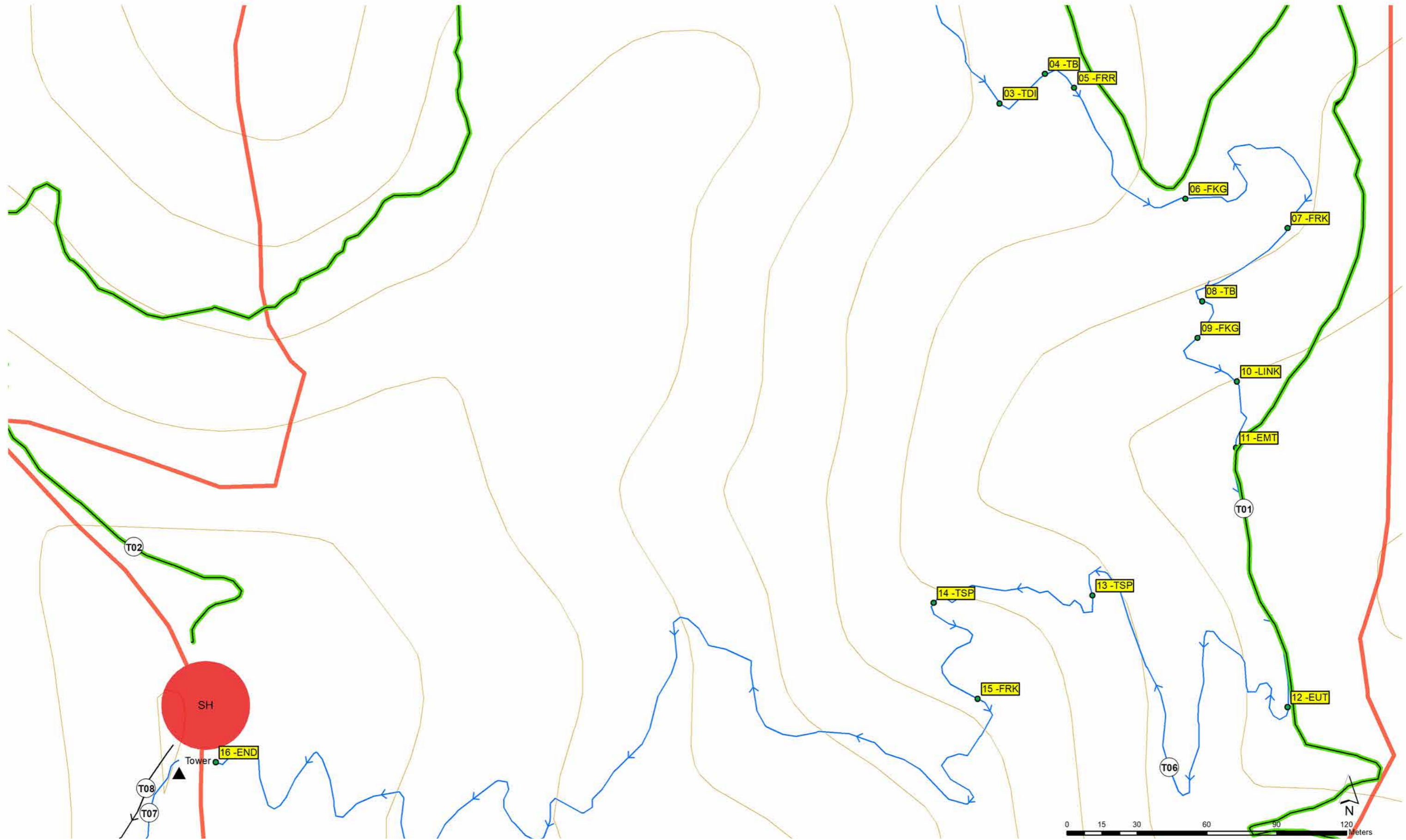
- NA

CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.







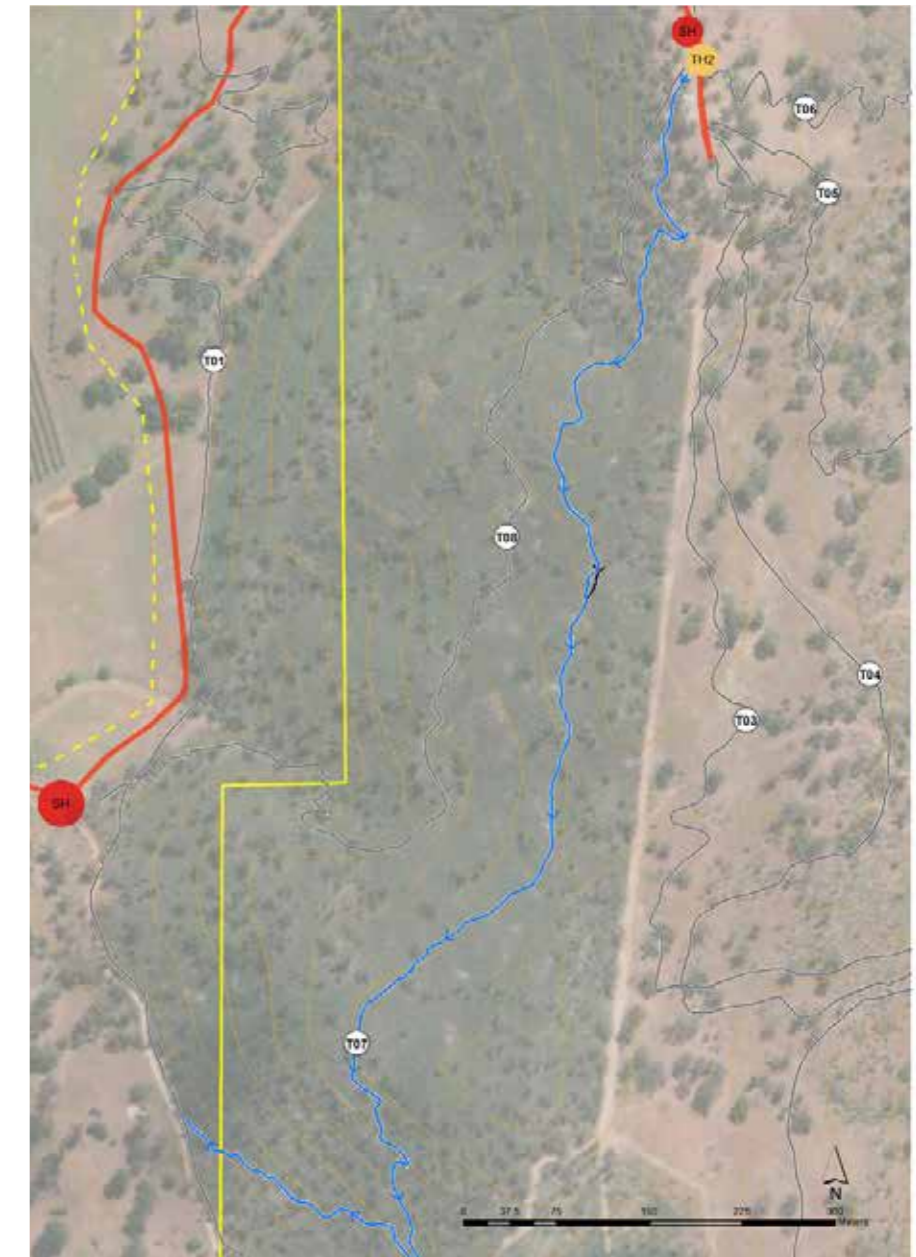
TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T06	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	TURN	2	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	TURN	3	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	TURN	4	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	FEATURE	5	FRR	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	FEATURE	6	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	FEATURE	7	FRK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	TURN	8	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	FEATURE	9	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	ELEMENT	10	LINK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	ELEMENT	11	EMT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	ELEMENT	12	EUT	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	TURN	13	TSP	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	TURN	14	TSP	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	FEATURE	15	FRK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T06	ELEMENT	16	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS

TRAIL DESCRIPTION

Trail 07 is a 1,229m long moderate - blue mountain bike trail descending mountain bike trail.

TRAIL ID	07
Classification	Moderate – Blue Square
Strategic Value	High
Trail Type	AM
Trail Style	Flow
Finished Tread Width	600mm
Trail Width and Finish	Loam and gravel
Use	Bicycle
Direction	Single Direction
Ascending / Descending	Descending
Corridor Width	5m
Trail Length	1,229m
Average Gradient	
Trail Features	Rock gardens, berms, rollable rock overs, off camber tread, drop off obstacles, natural terrain rollers and jumps
Notes	Option to ride Difficult- Black Diamond optional lines

URNS	VERTICAL CHANGE	OBSTACLES
Insloped Descending Turn Outsloped Descending Turn Descending Switchback Rising Catch Turn Technical Inside Line	Kicker Jump Tabletop Jump Rollers Step Up Jump Step Down Jump Grade Reversal Obstacle Drop Off Obstacle Step Up	Rock Rollover Technical Roll In Exposed Bedrock



CONSTRUCTION

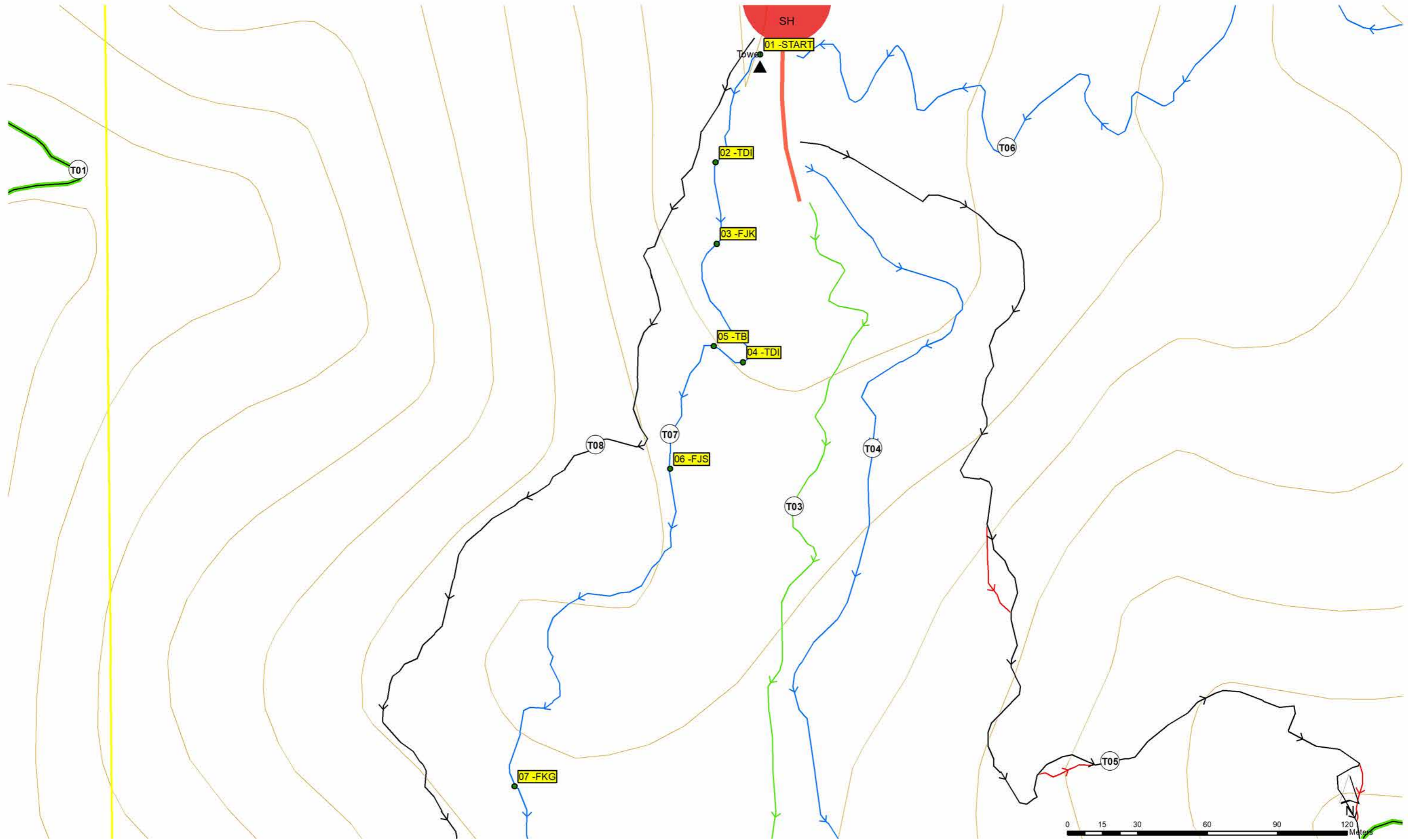
TRAIL MACHINERY AND IMPORTED FILL VOLUMES

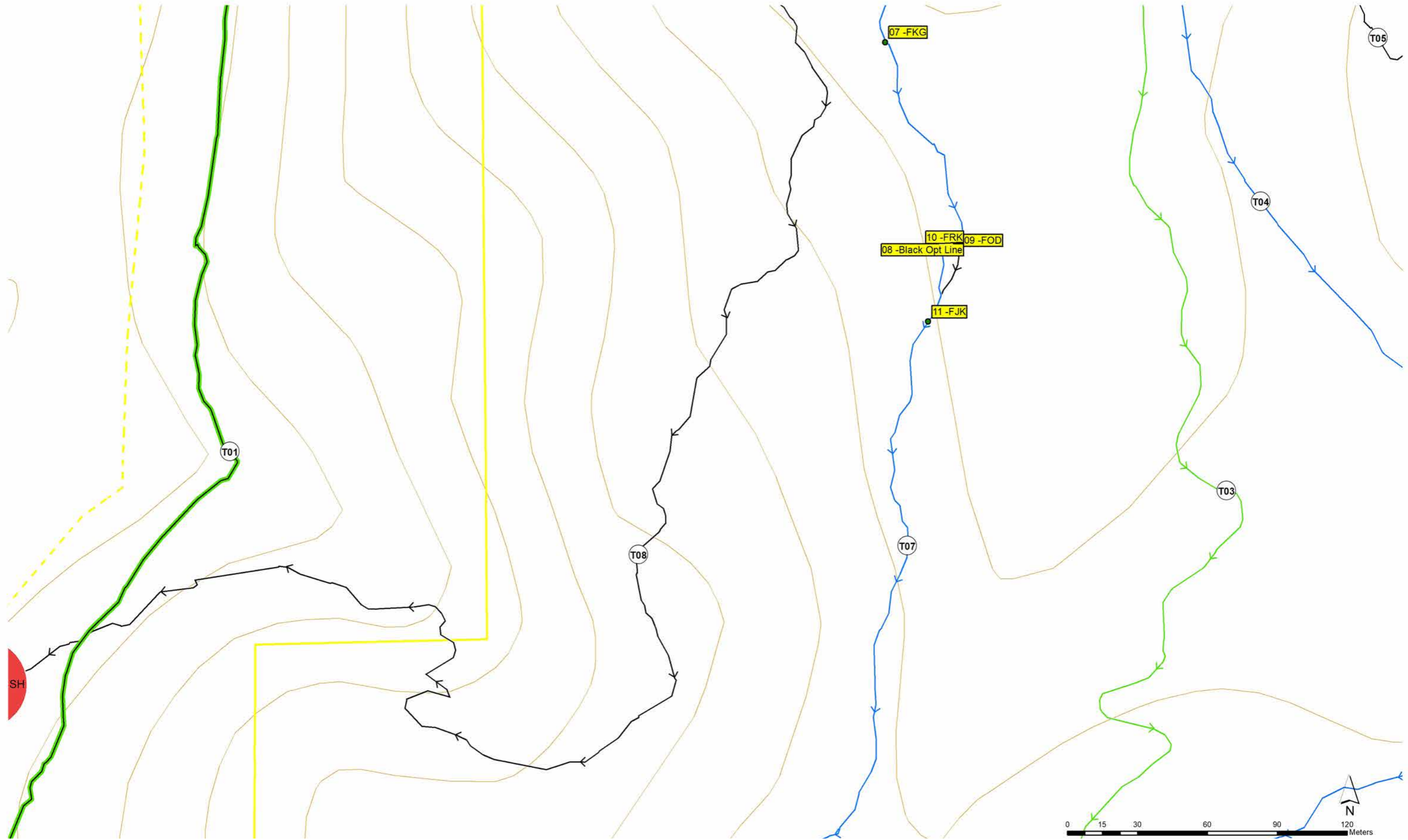
- Machinery
- 2 Tonne Excavator
 - 1.5m wide Rubber Track Loader
- Fill
- NA

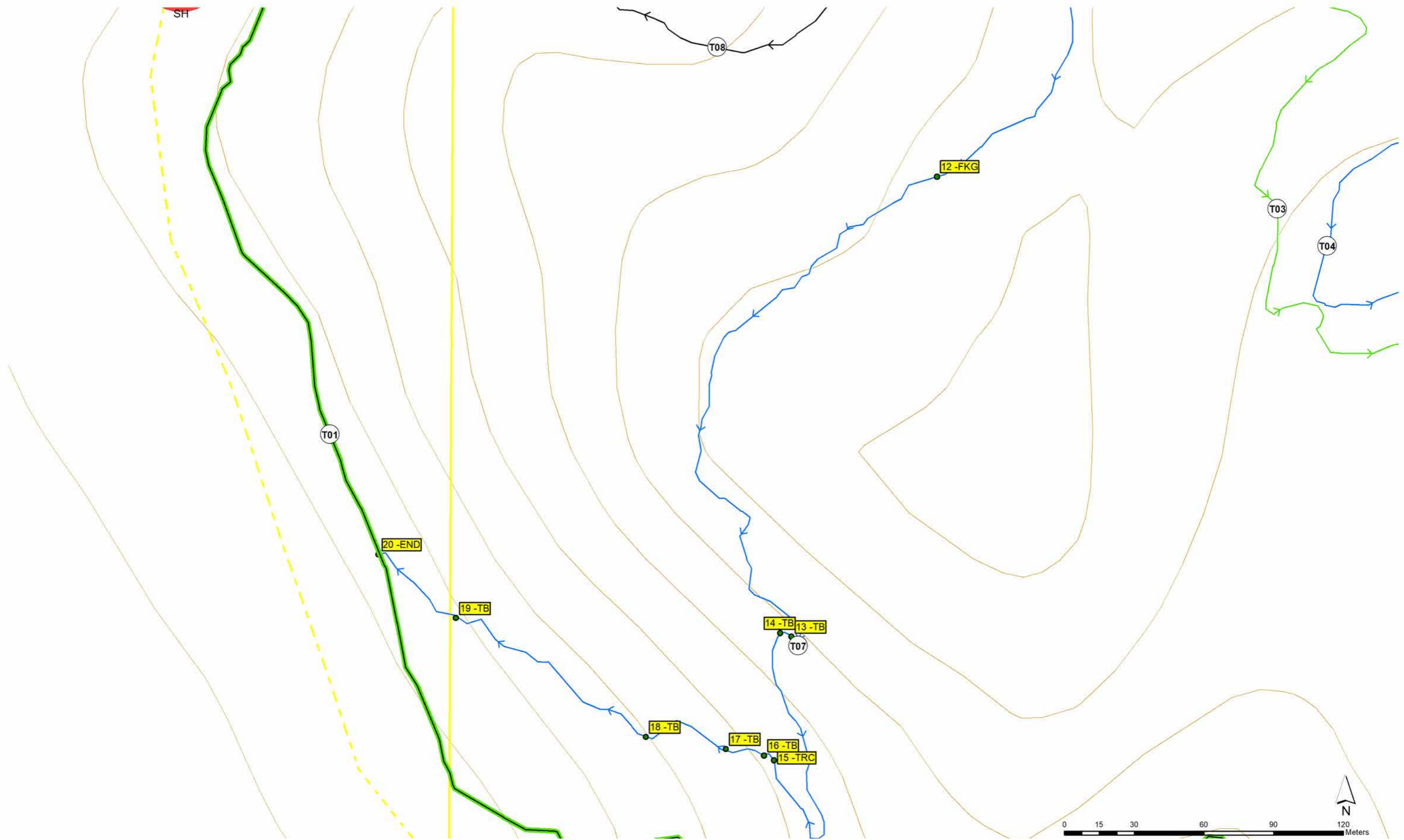
CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.









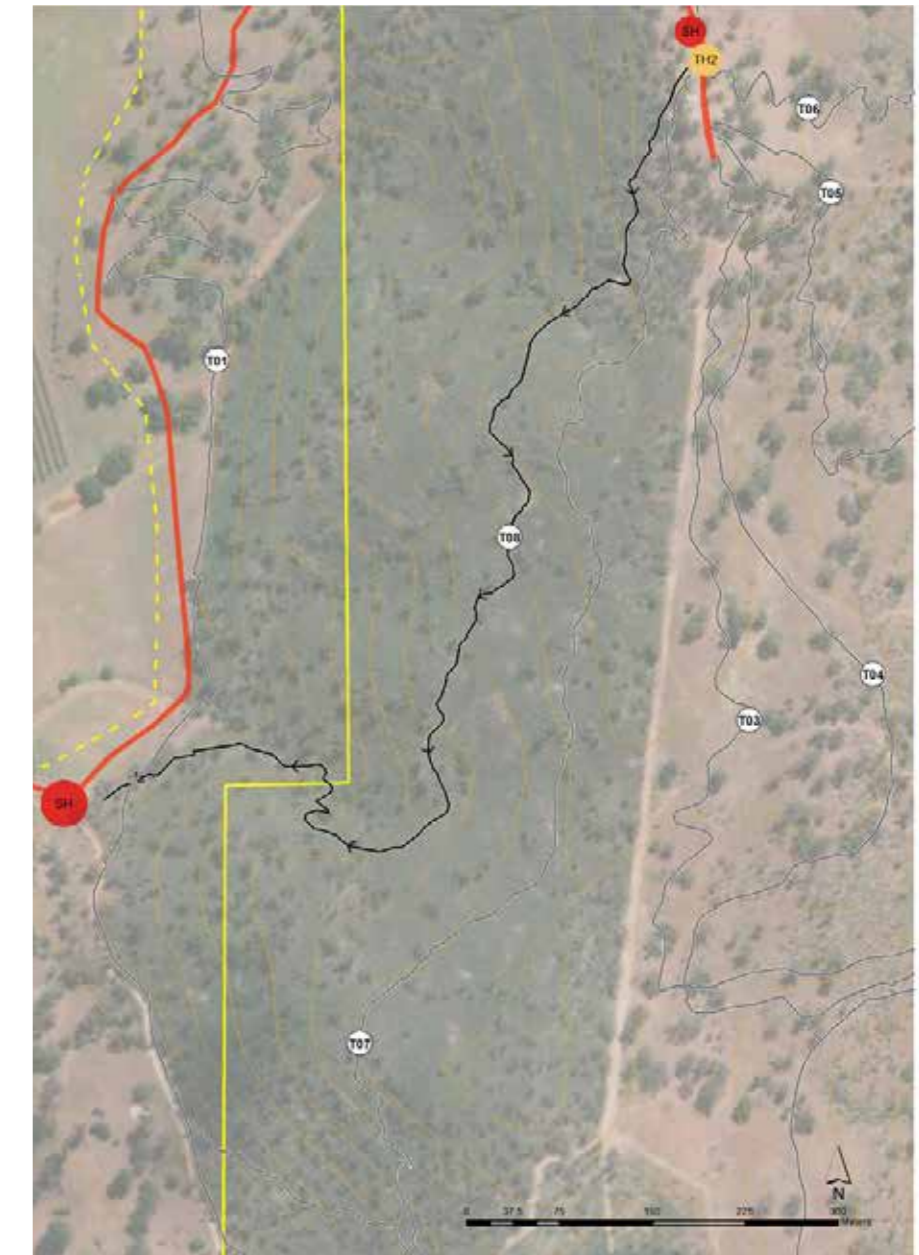
TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T03	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	2	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	3	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	4	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	5	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	6	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	7	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	8	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	9	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	ELEMENT	10	EDN	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	11	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	12	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	13	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	14	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	15	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	16	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	17	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	ELEMENT	18	ERC	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	19	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	20	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	21	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	22	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	23	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	24	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	TURN	25	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T03	ELEMENT	26	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS

TRAIL DESCRIPTION

Trail 08 is a 959m long difficult - black descending mountain bike trail.

TRAIL ID	08
Classification	Difficult – Black Diamond
Strategic Value	High
Trail Type	AM
Trail Style	Technical
Finished Tread Width	600mm
Trail Width and Finish	Loam and gravel
Use	Bicycle
Direction	Single Direction
Ascending / Descending	Descending
Corridor Width	5m
Trail Length	959m
Average Gradient	
Trail Features	Rock gardens, berms, rollable rock overs, off camber tread, drop off obstacles, natural terrain rollers and jumps
Notes	

URNS	VERTICAL CHANGE	OBSTACLES
Insloped Descending Turn Outsloped Descending Turn Descending Switchback Rising Catch Turn Technical Inside Line	Kicker Jump Tabletop Jump Rollers Step Up Jump Step Down Jump Grade Reversal Obstacle Drop Off Obstacle Step Up	Rock Rollover Technical Roll In Exposed Bedrock



CONSTRUCTION

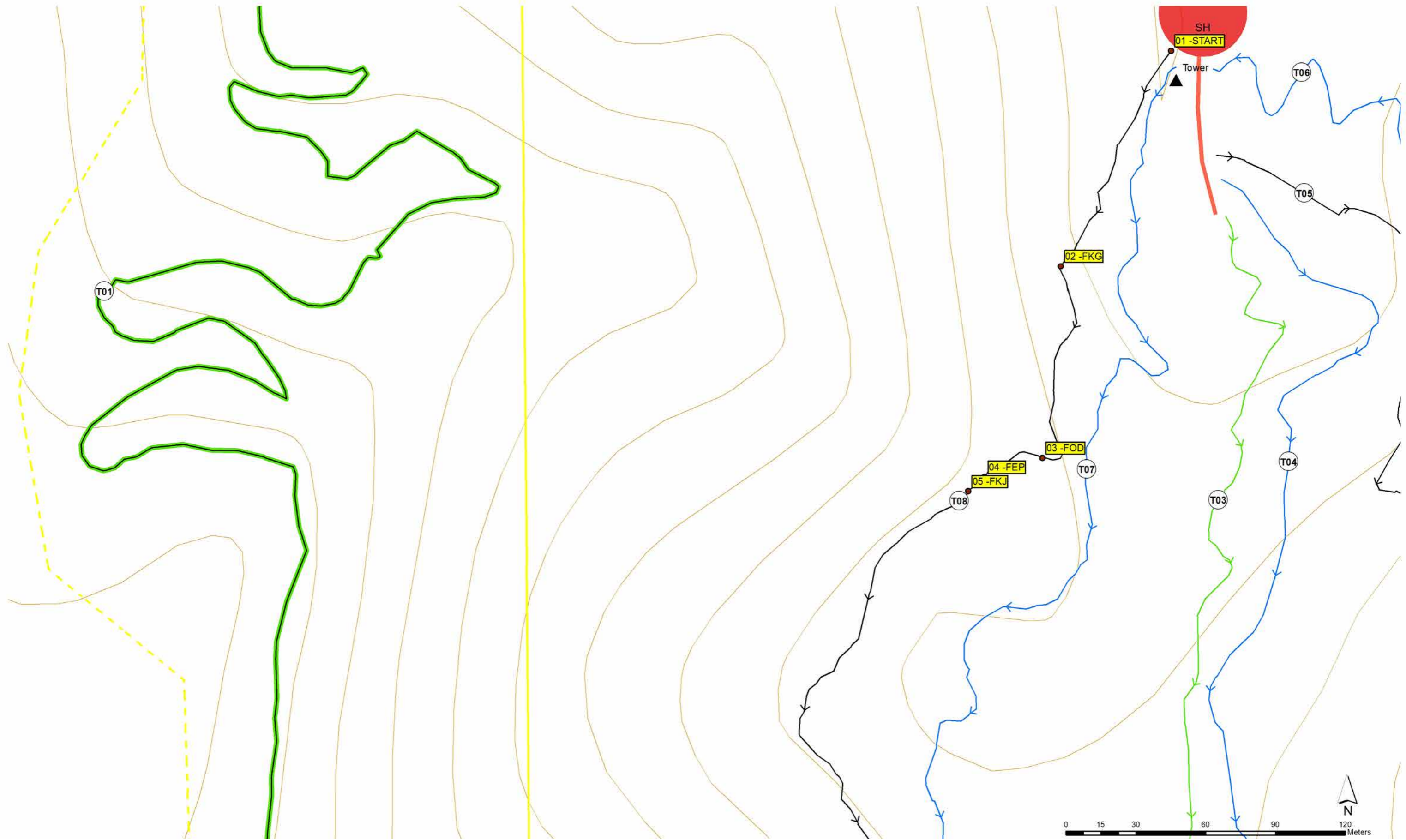
TRAIL MACHINERY AND IMPORTED FILL VOLUMES

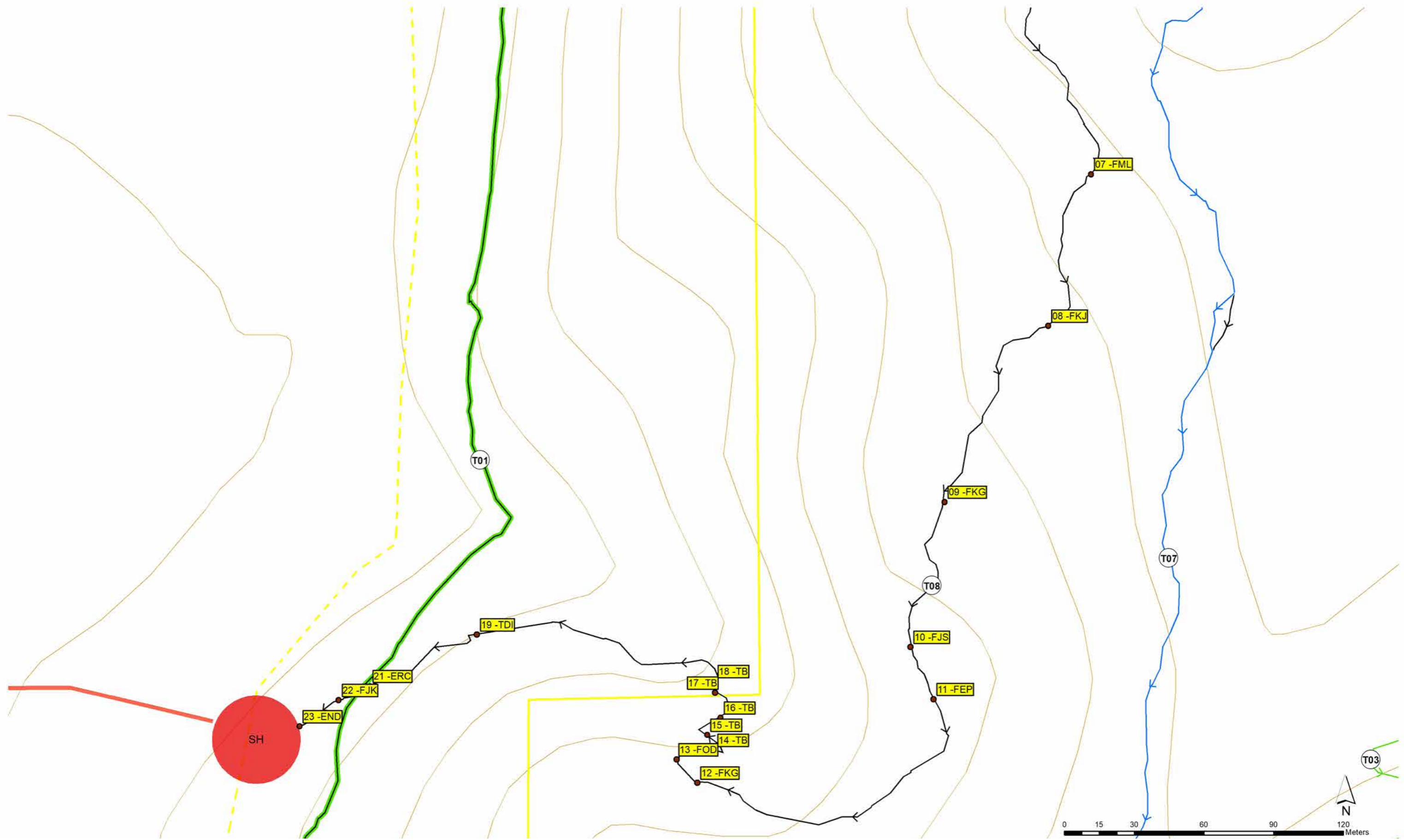
- Machinery
- 2 Tonne Excavator
 - 1.5m wide Rubber Track Loader
- Fill
- NA

CONSTRUCTION MATERIALS

- Construction will entail the use of in situ materials.
- There will be a requirement for imported material. Imported soil to be approved by the Project Manager
- All bridge and platform structures to be engineer certified by construction contractor.
- Concrete pipe for culvert use.







TRAIL NUMBER	TRAIL ATTRIBUTE	POINT IN CHAIN	TRAIL FEATURE	NOTES
T08	ELEMENT	1	START	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	2	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	3	FOD	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	4	FEP	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	5	FKJ	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	6	FRK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	7	FML	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	8	FKJ	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	9	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	10	FJS	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	11	FEP	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	12	FKG	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	13	FOD	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	TURN	14	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	TURN	15	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	TURN	16	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	TURN	17	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	TURN	18	TB	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	TURN	19	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	TURN	20	TDI	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	ELEMENT	21	ERC	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	FEATURE	22	FJK	MACHINE BUILT AS PER CONSTRUCTION STANDARDS
T08	ELEMENT	23	END	MACHINE BUILT AS PER CONSTRUCTION STANDARDS