

Enlighten

Getting Started

Guide

Introduction to Enlighten 5.1
Environment and Functionality



1 Table of Contents

1.	Login to Enlighten Web Application	5
1.1	Login using Full Enlighten URL (No SSO enabled).....	5
1.2	Login using SSO URL	6
2	First-time opening new Enlighten Session	7
2.1	Main and Enlighten Toolbars	7
2.2	Enlighten Task Pane	8
2.3	Advanced Toolbar	9
2.4	Show / Hide	9
2.5	Enlighten Help	9
3	Navigating around the map.....	10
3.1	Scroll Wheel.....	10
3.2	Zoom Slider Control	10
3.3	Enlighten Toolbar Zoom and Pan functions.....	10
3.4	Overview Map	11
4	Selection Mode	11
4.1	Clearing a Selection	12
4.2	Other methods of creating a selection set	12
4.2.1	 Select Radius	12
4.2.2	 Select Polygon	12
4.2.3	 Select Within.....	13
4.2.4	 Select Circle	13
4.2.5	 Create Buffer	13
4.3	Tooltips	13
5	Show Information Pane.....	14
5.1	Show Info pane dynamically updated based on map selections.....	15
5.2	Record in focus on Show Info pane is highlighted on map.....	16
5.3	Image Preview on Show Info pane.	17
6	Managing the display of Layers on the Map	18
7	Background Map.....	19
8	External Provider Layer	21
9	Quick Plot.....	23
10	Set User Options	25
10.1	Save Toolbar / Pane State on logout.....	25

10.2	Save Location / Scale on logout.....	25
10.3	Save Layer Profile on logout.	25
10.4	Restore Last Map	26
10.5	Save Layer Filters	26
10.6	Save Active Report.....	26
10.7	Use Large Icons	26
10.8	Toolbars and Panes Transparency.....	26
10.9	Point Selection Buffer - Pixels	26
10.10	Use Default Colour	27
11	EnPlot Plot Applications.....	27
Figure 1:	Enlighten 5.0 Landing Page	5
Figure 2:	Change Password	5
Figure 3:	Update Password	6
Figure 4:	Enter SSO credentials for first-time login	6
Figure 5:	Enlighten Map Window for first-time login.....	7
Figure 6:	Enlighten Task Pane for Admin User	8
Figure 7:	Documentation hyperlinks on the Enlighten Toolbar	9
Figure 8:	Slider Control.....	10
Figure 9:	Displaying associated attributes in Show Info pane for selected map features.....	11
Figure 10:	Displaying attributes in Basic Info pane for selected map features.....	12
Figure 11:	Very basic tooltip with a hyperlink to open the Show Info pane.....	13
Figure 12:	Tooltip displaying relevant asset information.	14
Figure 13:	Tooltip displaying basic attributes, hyperlinks to files and thumbnail photo	14
Figure 14:	Detailed explanation of the Show Info pane layout.....	15
Figure 15:	Selection tools on the Show Info pane.	15
Figure 16:	Record in focus in List View is highlighted on the map.....	16
Figure 17:	Image Preview defined for some Map Features	17
Figure 18:	Full image can be viewed in separate browser window.	17
Figure 19:	Full image can be viewed in separate browser window.	18
Figure 20:	Setting Layers to be non-selectable.	19
Figure 21:	Display of Background Maps which can be configured	20
Figure 22:	Setting the Background Maps	20
Figure 23:	Selecting URL-based External Layer Type.....	21
Figure 24:	Example of adding an ESRI Feature Service layer	22
Figure 25:	Example of displaying an ESRI Feature Service layer	22
Figure 26:	Quick Plot pane displaying various page sizes to select from.....	23
Figure 27:	Quick Plot page sizes depend on units in the Map Projection.....	23
Figure 28:	Quick Plot Advanced options	24
Figure 29:	Generates a Plot as a PDF file	24
Figure 30:	Manage User Options pane	25
Figure 31:	Large and Small Icon sizes.....	26
Figure 32:	enPlot Plot Application pane.....	27
Figure 33:	EnPlot Dialog Box based on selected Plot Application.....	28

Figure 34: Plot coverage based on Scale and map centre point	28
Figure 35: Change scale and map centre point.....	29
Figure 36: Change scale and map centre point.....	29

1. Login to Enlighten Web Application

There are two methods of logging onto the enlighten application, namely:

1. Using the full enlighten URL ([https://\[enlighten_server\]/enlighten5/homepage/login.aspx](https://[enlighten_server]/enlighten5/homepage/login.aspx))
2. Using the URL for Single Sign On (SSO) ([https://\[enlighten_server\]/enlighten5](https://[enlighten_server]/enlighten5))

1.1 Login using Full Enlighten URL (No SSO enabled)

Using the full URL method when SSO is disabled or not configured, the user is required to type in the full enlighten URL [https://\[enlighten_server\]/enlighten5/homepage/login.aspx](https://[enlighten_server]/enlighten5/homepage/login.aspx) where they will be taken to the enlighten landing page. You are required to enter a valid username and password as created by the Enlighten Administrator.



Figure 1: Enlighten 5.0 Landing Page

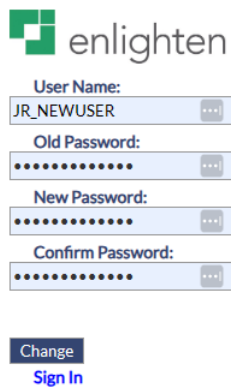
You may be required to change your **Password** for the first-time login as a temporary password was assigned by your enlighten Administrator for your first login.



Figure 2: Change Password

Select the **Change** button to enter a new password conforming to the password requirements below.

Length ≤ 100 and ≥ 8 , at least 1 capital(s) 1 number(s) with 1 character in `[-*!@#$$%^&+=]`



enlighten

User Name:
JR_NEWUSER

Old Password:
.....

New Password:
.....

Confirm Password:
.....

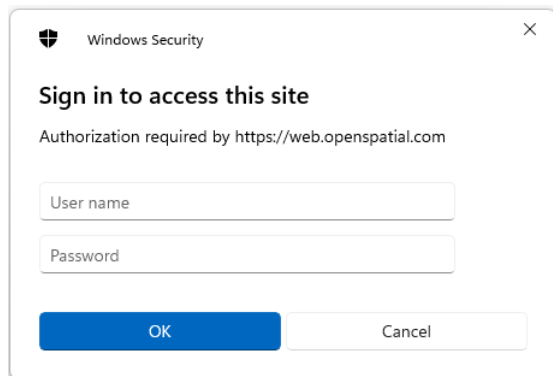
Change
Sign In

Figure 3: Update Password

1.2 Login using SSO URL

When Single Sign On (SSO) is enabled, it allows users to log in to multiple applications and websites with one set of credentials. If SSO is configured for the enlighten 5 website, users can use the following URL [https://\[enlighten_server\]/enlighten5](https://[enlighten_server]/enlighten5) to open their session of enlighten 5.0. Using SSO to log onto enlighten bypasses the login screen on the homepage and takes the user directly to the enlighten map.

On the first login to enlighten using SSO, the user will be prompted to enter their domain username and password before the enlighten session is opened.



Windows Security

Sign in to access this site

Authorization required by https://web.openspatial.com

User name

Password

OK Cancel

Figure 4: Enter SSO credentials for first-time login

NOTE: Any subsequent login using the SSO URL will open the enlighten 5 website using the cached domain credentials. Clearing of the browser cache will prompt the user to re-enter their domain credentials.

2 First-time opening new Enlighten Session

On the first login to a new enlighten session, the **Main Toolbar** and **Enlighten Toolbar** are displayed using the large icon setting, the **Enlighten Task Pane** is displayed, the map window is zoomed to the **Map Center Coordinates**, **Map Extents** and **Map Scale** as defined in the Map Settings, and the **Zoom Slider** is visible in the top right corner of the map window.

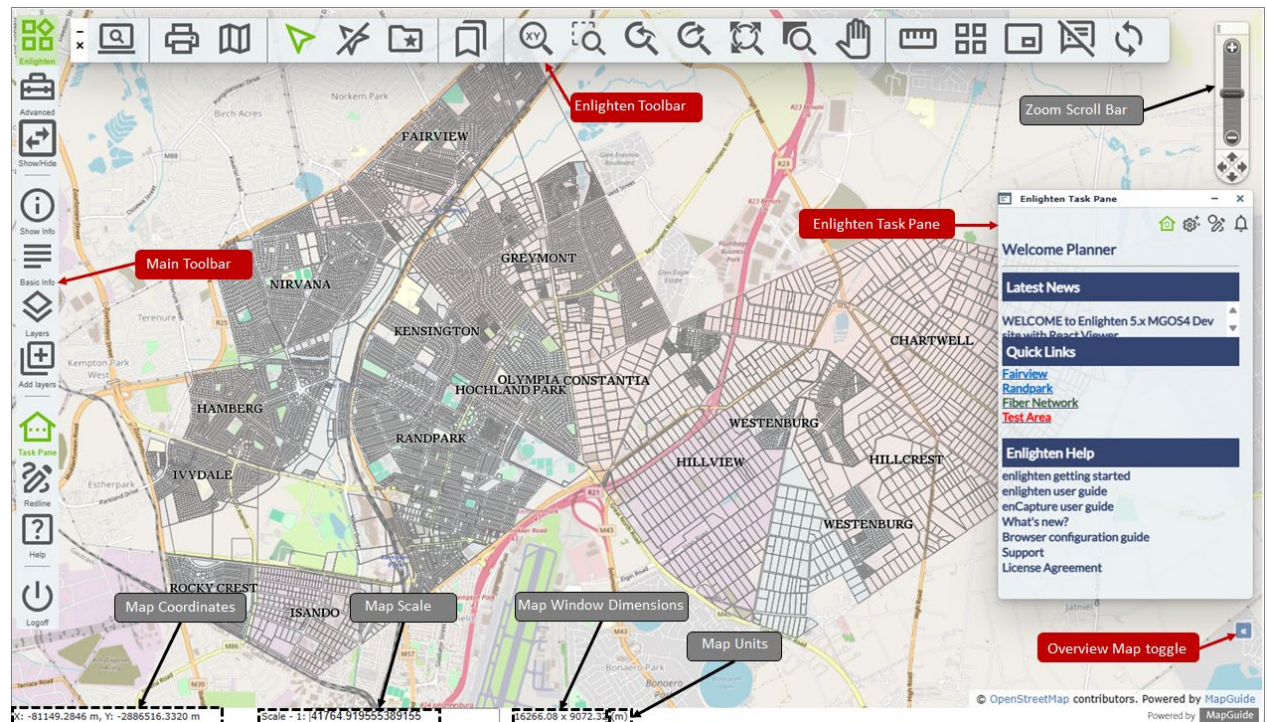


Figure 5: Enlighten Map Window for first-time login

2.1 Main and Enlighten Toolbars

The **Main Toolbar** is a fixed vertical toolbar which is always displayed on the left-hand side of the Map Window. Only the **Main Toolbar**, when loaded with large icon, displays the function descriptions as text, whilst the functions for all toolbars are displayed as tooltips on mouse over. The Main Toolbar contains functionality to show/hide toolbars and panes, open the Show Info and Basic Info panes, open the Layers pane and manage external and Local layers, navigate to the Redline Markup pane and open the Enlighten Task Pane. There is also a link to the online User Guide help.

The **Enlighten Toolbar** can be moved to any location within the map window and can be closed or hidden. The Enlighten Toolbar contains functionality to navigate around the map, to complete searches on published map layers, to complete quick plot and enPlot Plot Applications, create and manage selections sets, as well as to apply user layer profiles. Some functions may not be displayed until the Enlighten Administrator has assigned the permissions to the users.

When a function is active on a toolbar, the color for the active function changes from dark grey

to green. On first login, only the **Enlighten Toolbar**  and **Select mode**  are active.

2.2 Enlighten Task Pane

The **Enlighten Task Pane** is displayed by default for first-time login and contains **Quick Links** to pre-defined map areas, links to supporting enlighten documentation. The **Enlighten Task Pane** also gives the user access to the following **Common Base Tools** displayed at the top of the Task Pane:

-  **Home** - reloads the Enlighten Task Pane and displays the home menu, giving you access to the base tools.
-  **Set User Options** - provides the ability for users to customize the display settings and enlighten environment for their individual enlighten sessions.
-  /  **Redline Notifications (Active/Inactive)** –  Allows users to open the Redline Notifications pane to manage Redline edits.  Notifies the user that there are Redline markups requiring their approval/input.
-  /  **Check Notifications (Active/Inactive)** -  Opens the System Notification pane.  indicates there is a notification requiring their approval/input.
-  **Map Performance Tool** – Only available to Administrator users to test the performance of the map loads.
-  **Admin View** - Only available to Administrator users to open the Enlighten Administrator screen.

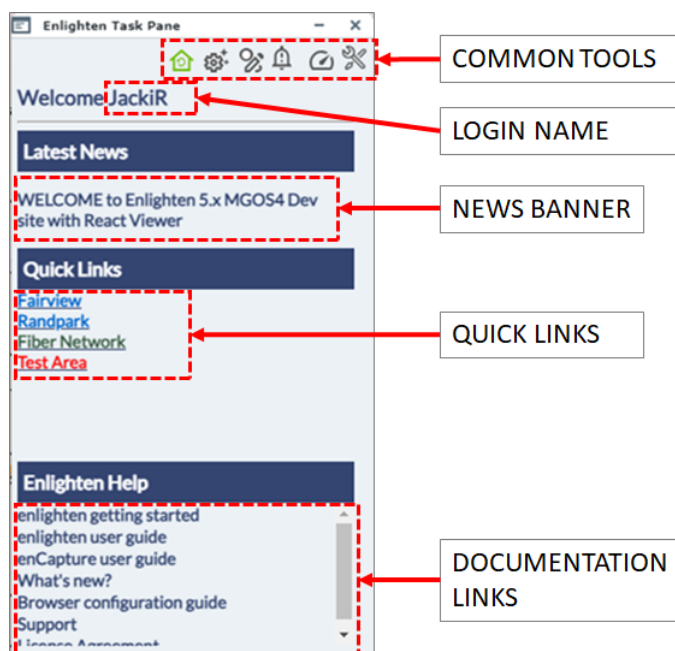


Figure 6: Enlighten Task Pane for Admin User

2.3 Advanced Toolbar

Selecting the **Advanced Toolbar** icon  on the Main Toolbar opens the Advanced Toolbar at the bottom of the map window. This toolbar contains advanced functionality where only functions which are assigned to the user are displayed.

2.4 Show / Hide

The **Show/Hide** icon  on the Main Toolbar is a toggle function which opens or closes the toolbars and panes according to the state they were set when the user last logged off. When a user opens an enlighten session for the first time, the **Main Toolbar** and **Enlighten Toolbar** are displayed by default, and the **Show/Hide** is not yet set.

The **Show/Hide** icon will change to green  when selected, indicating toolbars and panes are hidden. Select the icon again to re-display the last active toolbars and panes.

2.5 Enlighten Help

On the **Enlighten Task Pane** hyperlinks to the various on-line Help documents are available. Selecting the hyperlink will open the document in a separate Browser Window.

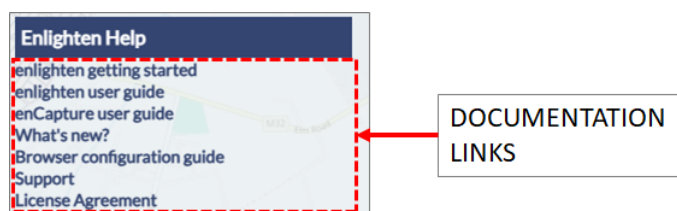


Figure 7: Documentation hyperlinks on the Enlighten Toolbar

For ease of use, the **Help** button  on the Main toolbar opens the on-line **Enlighten User Guide** in a separate browser window so that you do not have to navigate via the Enlighten Task Pane to get to the documentation links.

There are two short videos, where the first which introduces the enlighten application, whilst for new users, the second video is aimed to get you started on the latest Enlighten 5 application functionality.

The links to these videos listed below might require you to contact the Open Spatial [Support Team](#) to grant the necessary access to view.

1. [Short Introduction to enlighten on Vimeo](#)
2. [enlighten 5 - Getting Started on Vimeo](#)

3 Navigating around the map

To navigate around the enlighten map window there are a few options and functions available to the user.

3.1 Scroll Wheel

The Scroll Wheel on the mouse can be used to Zoom in and out of the map. Scrolling the wheel forward zooms in, whilst scrolling backwards zooms out.

Zooming occurs around the location of the selection cursor and is particularly useful if you want to zoom into a feature in the corner of the map window display. First move cursor to the corner location then scroll the mouse wheel forwards or backwards to zoom in or out around the mouse point position.

Holding the scroll wheel down will act as a **Pan** function allowing you can pan up, down, left or right around the map window and the current scale until the scroll wheel is released.

3.2 Zoom Slider Control

The Zoom Slider Control allows the user to navigate around the map using the pan and zoom controls. Using the Zoom Slider Control the user can zoom in by sliding the control up towards the  symbol and zoom out by sliding the control down to the  symbol. The map is zoomed around the map center point. Selecting the arrow keys at the bottom of the Zoom Slider Control, the user can pan around the map in the direction of the arrows.

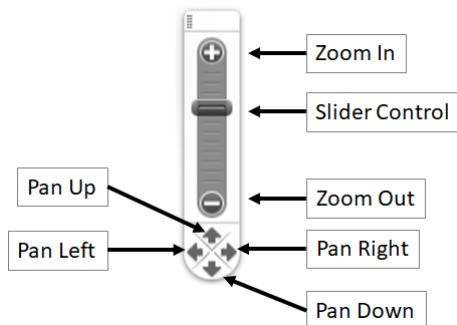
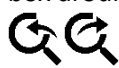


Figure 8: Slider Control

3.3 Enlighten Toolbar Zoom and Pan functions

The Enlighten Toolbar has the following map Navigation functions available:

-  **Zoom to Coordinates** - user must type in the X (Long) and Y (Lat) coordinates and select the projection, before selecting the Zoom button.
-  **Zoom Window** - allows zooming in to a specific area on the map by drawing a box around it.
-  **Zoom Previous / Zoom Next** - returns to the previous views or goes to the one after the current view if a previous zoom has been made.

-  **Zoom All** - zooms out to the extents of the dataset defined for the basemap.
-  **Zoom to All Selected Objects** - zooms to the extents of all objects in the current selection set across all layers.
-  **Pan** - allows moving the map in a certain direction while the current scale is maintained.

3.4 Overview Map

Selecting the **Overview Map** icon  on the Enlighten Toolbar opens a small map window insert at the bottom right corner of the main map. As the user zooms in and out of the main map, the Overview Map also zooms in or out and helps determine the position of the main map window in context to the map extents.

4 Selection Mode

When opening Enlighten, the **Selection** mode is active , meaning the user can zoom into map features and select a single map feature by clicking on the object so that it is highlighted, or select numerous map features by dragging a rectangular shape on the map so that multiple map features are highlighted.

By selecting the **Show Info** function  on the Main Toolbar, the attributes associated to the selection set are displayed in the Show Info pane.

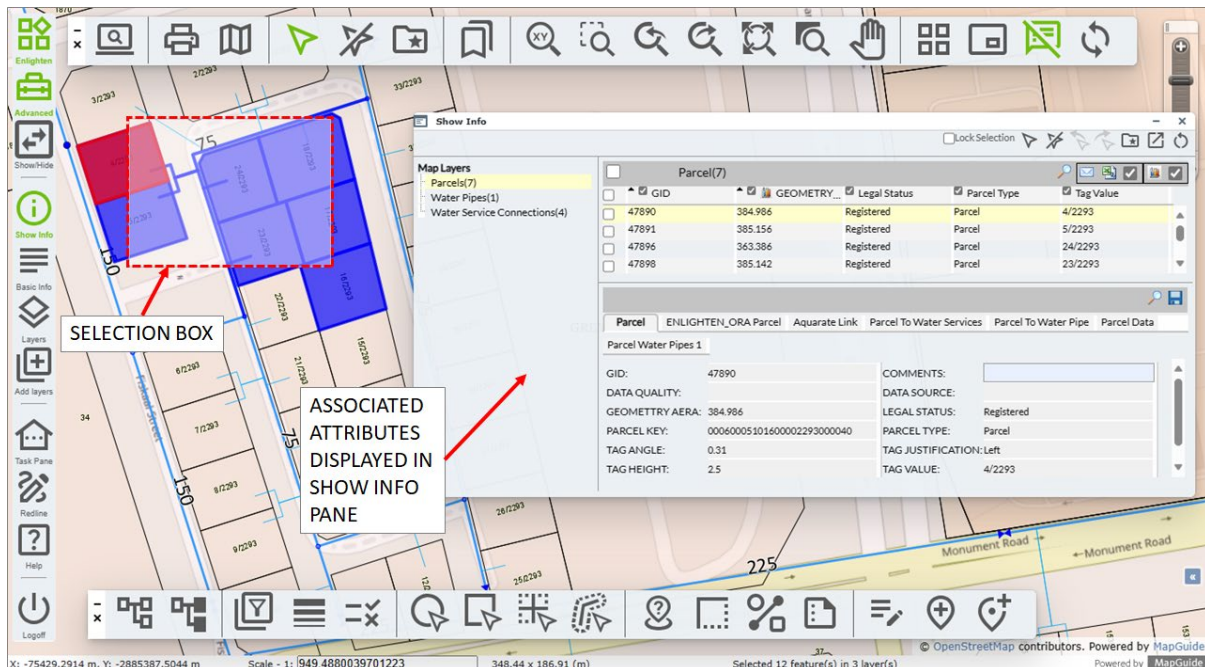


Figure 9: Displaying associated attributes in Show Info pane for selected map features

By selecting the **Basic Info** function  on the Main Toolbar, the attributes associated to the selection set are displayed in the Basic Info pane. All panes can be re-sized by gripping on any edge of the pane until the expand icons are visible   and stretching the edge of the pane to the desired

size. The scroll bars on the right side and bottom of the pane are only visible when the pane is not fully expanded.

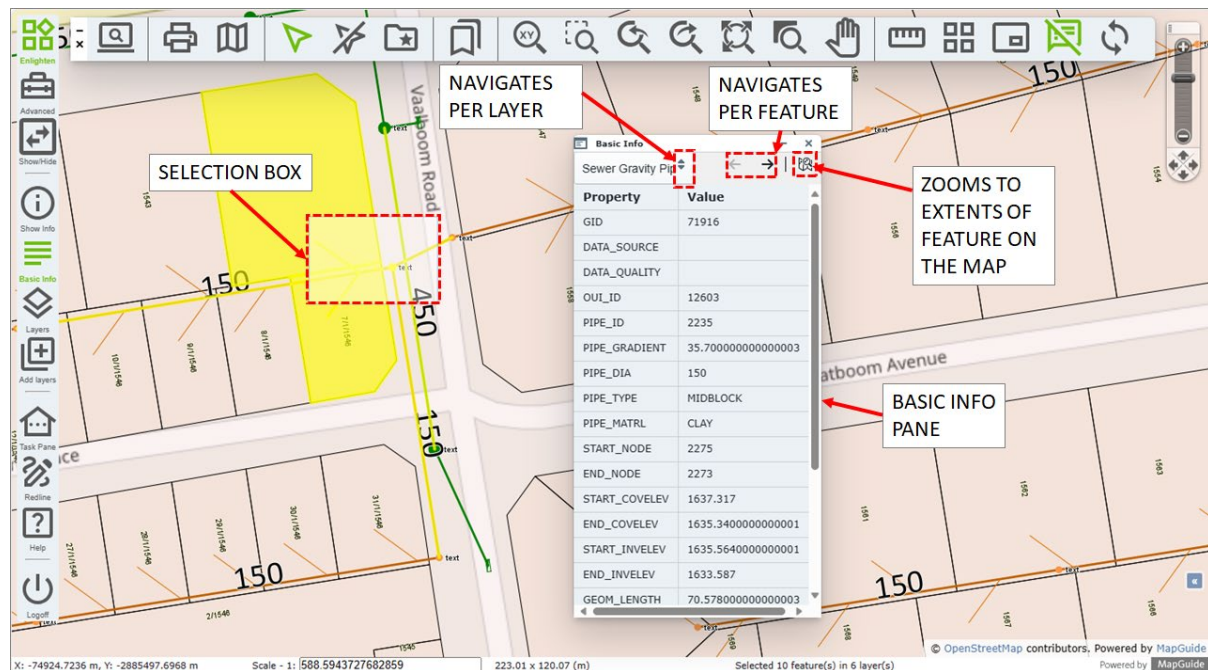


Figure 10: Displaying attributes in Basic Info pane for selected map features

4.1 Clearing a Selection

Selecting the **Clear Selection** icon  on the Enlighten Toolbar will clear the current selection set.

4.2 Other methods of creating a selection set

There are other methods of creating selection sets by using the functionality on the **Advanced Toolbar** such as **Select Radius**, **Select Polygon**, **Select Within** and **Buffer**. The **Select Circle** is an option on the context menu which can be used by right-clicking on the map and selecting the function.

4.2.1 Select Radius

Select Radius allows the user to create a selection set of objects by selecting a point on the map to use as the center of the circle, and then stretching out the circle to the desired radius to define the extents of the selection set. All objects which fall within the circle, or touch the circle outline, are included in the selection set.

4.2.2 Select Polygon

Select Polygon allows the user to create a selection set of objects by digitizing a polygon shape on the map to define the extents of the selection set. The user is prompted to select a starting point on the map, and then to pick a point on the map to add a vertex at that point. The user must continue to select points to add vertices, and if an incorrect vertex is added, the user can press **U** key to undo and re-select the vertex position. The user must double-click to end the selection on the map.

4.2.3 Select Within

Select Within allows the user to select features within selected layers. By left clicking on select within tab, the MapGuide Task pane on the right-hand side of the screen will open allowing you to select one or more features.

4.2.4 Select Circle

Select Within opens the MapGuide Task pane where the user is required to select the Measurement Units from the drop-down list, and then select a point on the map to use as the centre of the circle. The user then stretches out the circle on the map to the desired radius to define the extents of the selection set. The radius size is displayed in the MapGuide Task pane in the units initially selected.

4.2.5 Create Buffer

The **Buffer** tool allows the user to create a buffer around selected features based on the distance and unit of measure selected. The resulting buffer object is drawn on a separate layer matching the name entered on the Create a Buffer pane, for example: Water Pipe Buffer.

4.3 Tooltips

Tooltips are a way of providing additional information about a map feature by allowing the user to hover the mouse pointer over an object on the map to view more information about that feature without having to select the object.

Tooltips are very useful for navigating around various map features on the map to see basic information. These tooltips are set up per layer and can be coded in basic HTML to provide a very basic hyperlink to open the map feature in focus in the Show Info pane.

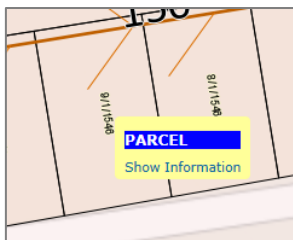


Figure 11: Very basic tooltip with a hyperlink to open the Show Info pane.

Tooltips can be defined to display relevant asset information, for instance a water pipe diameter, pipe material and length etc. without having to select the water pipe and view all attributes associated to the pipe.

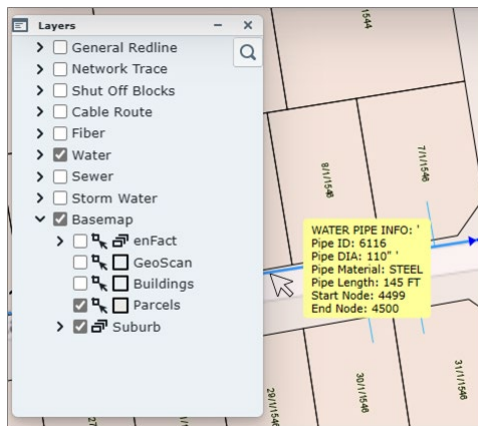


Figure 12: Tooltip displaying relevant asset information.

Tooltips can also be more detailed to provide a combination of basic asset information, hyperlinks to external file references, display a thumbnail of a photo of the asset, which when selected can be opened in full in a separate browser window, and provide a hyperlink to open the asset in the Show Info pane to view all asset data and linked attribute information.



Figure 13: Tooltip displaying basic attributes, hyperlinks to files and thumbnail photo

5 Show Information Pane

The **Show Info** pane allows viewing and managing large amounts of information based on a selection of objects on layers within the map. To access this functionality first select one or more map features on the map and then click on the **Show Info** button  from the Main Toolbar.

Based on the various features selected on the map, the Map Layers list expands in the **Tree View** with the names of the layers on which the selected features are displayed. The **List View** is typically configured to display a simplified version of the selected features, whilst the **Detailed View** displayed more detailed information for the same selected feature where some fields can be configured to be editable.

The three main View components are described below:

1. **Tree View:** Lists the layer **names and the number of selected objects** within each layer. When choosing a different layer in the **Tree View**, the information in the **List View** will change accordingly. The details available are configured by your enlighten administrator.
2. **List View:** : Shows the attributes for each selected feature of a specific layer. For example, **Parcel Type**, **Legal Status**, **Work Status**, etc., are shown for each selected object belonging to the **Parcels** layer. Options are included in the list view:
3. **Detail View:** Shows all the information available for the feature highlighted in the List View. In some instances, it is possible to modify some attribute information and post the changes to the database.

The default form displayed for each selected map feature is referred to as the **Primary Form**. Numerous **Secondary Forms** can be configured to display information associated to the selected objects where there needs to be a common link between the attributes for the primary form and each secondary form defined.

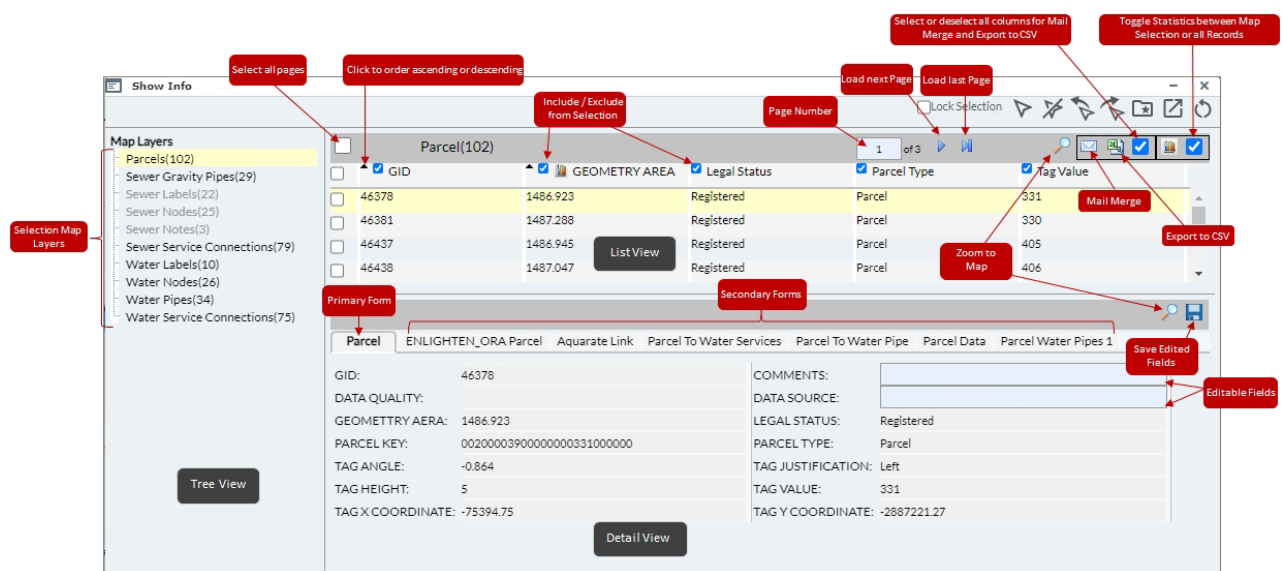


Figure 14: Detailed explanation of the Show Info pane layout.

5.1 Show Info pane dynamically updated based on map selections.

The Show Info pane is dynamically updated based on the selections of map features on the map. **Selection Tools** are readily available at the top of the Show Info and allow the user to navigate through the various selections sets and bring them into focus on the Show Info pane.

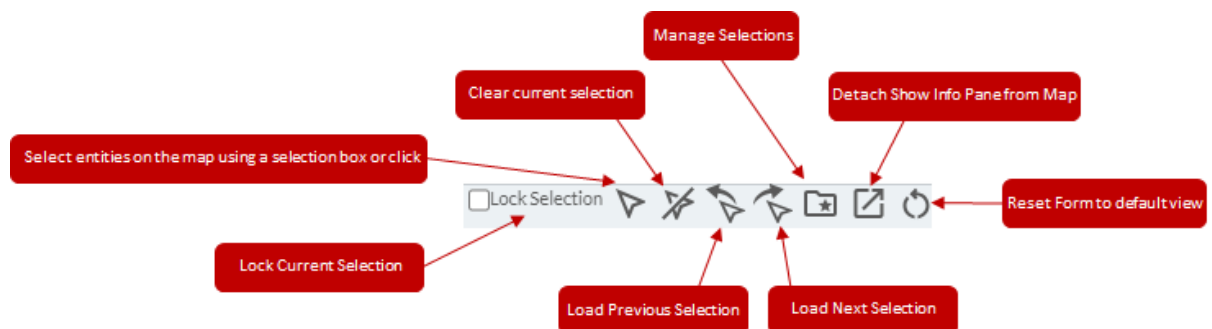


Figure 15: Selection tools on the Show Info pane.

The selection functions are detailed below:

- ☐ **Lock Selection** **Lock Selection:** Allows the user to lock the current selection that is displaying in the Show Info pane. When the Lock selection is enabled, the user can select other map features without the Show Info pane updating the selection on the pane. This allows users to retain the display of current selection set in the List View whilst selecting other items individually and viewing the attributes in the **Basic Info** form.
-  **Select:** Allows the selection of single or multiple objects from the map window either by **clicking** on an object or by **drawing a window** around one or multiple objects. Holding the **Shift** key while selecting allows the user to make another selection on the map which is added to the current selection.
-  **Clear Selection:** Clears all selected features on the map and clears the Show Info pane of all selections except if the selection was locked.
-  **Load Previous Selection:** If the selection set is changed the Load Previous Selection loads the previous selection set.
-  **Load Next Selection:** If the selection set is changed the Load Previous Selection loads the next selection set.
-  **Manage Selections:** Allows the user to save a new selection set, to load or delete existing selections, and to export a selection set of features to a file.
-  **Detach Show Info Pane:** Open the Show Info pane in a separate browser window so that it can be opened on a second screen.
-  **Reset Form:** Resets the Show Info pane to display in the Map Window at the default pane size.

5.2 Record in focus on Show Info pane is highlighted on map.

The record selected in the **List View** on the Show Info pane is highlighted on map in red and the associated attributes are displayed in the **Detailed View**. As the user navigates through the list of records in the **List View**, the **Detailed View** is updated with the associated attributes and the associated map feature is highlighted on the map.

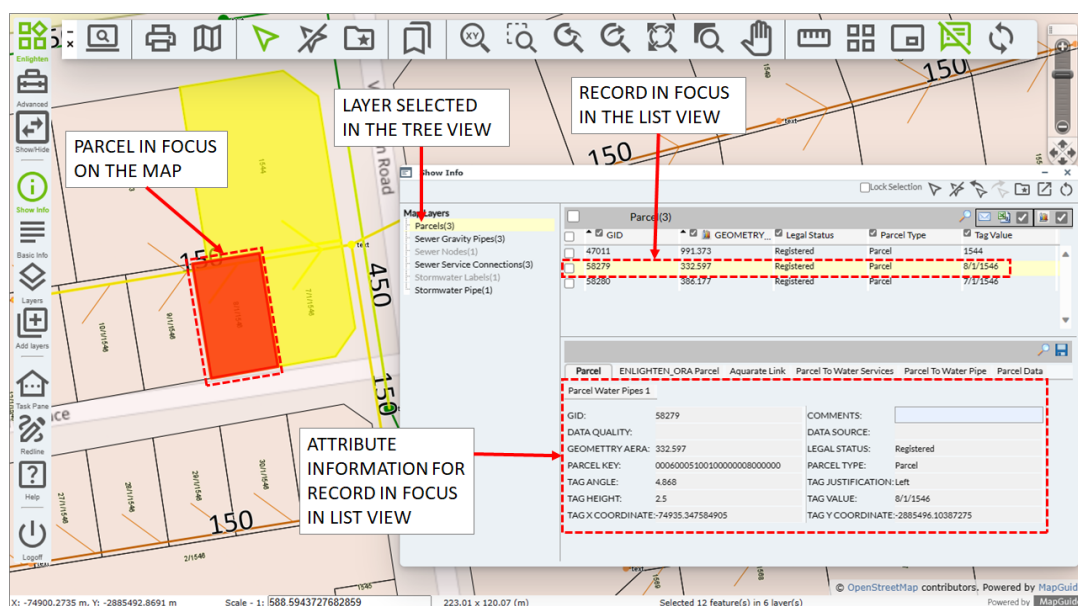


Figure 16: Record in List View is highlighted on the map.

5.3 Image Preview on Show Info pane.

Some map Features may be setup to display an **Image Preview** when the Show Info pane is opened. The **Image Preview** pane is updated as the user navigates through the selected records in the **List View**.

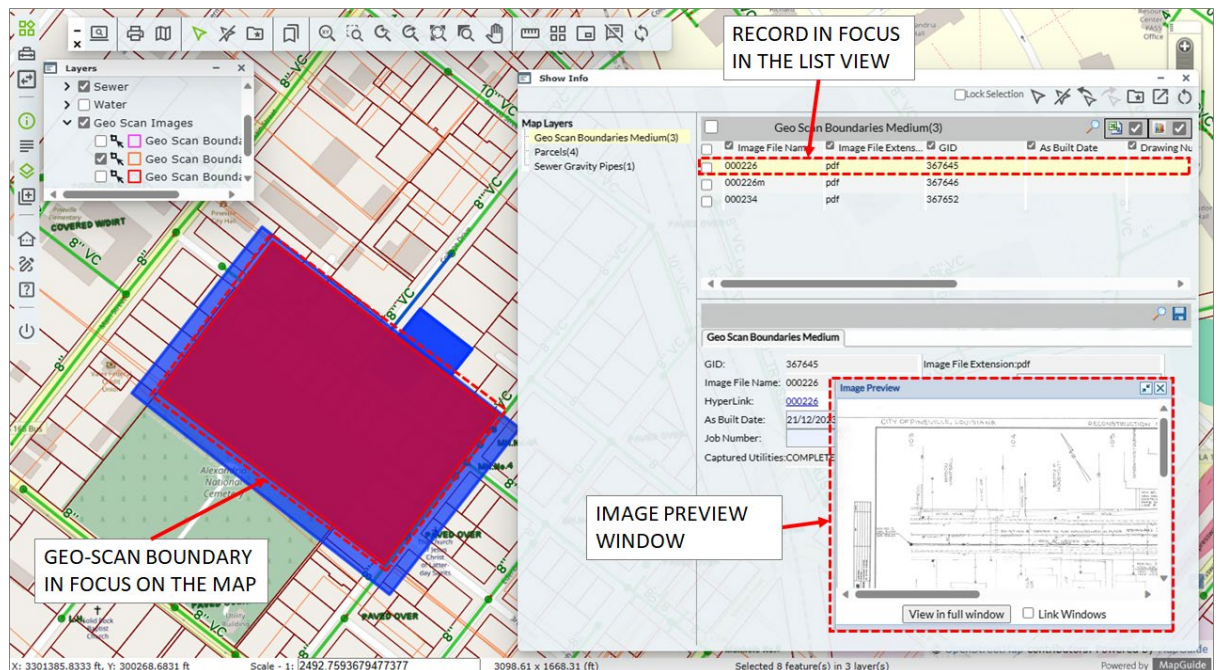


Figure 17: Image Preview defined for some Map Features

Selecting the option to **View in full window** on the Image Preview pane will open the full image in a separate browser window where the user can zoom in and navigate around the image to see more details. These images must be saved as **PDF, TIF** or **JPG** file formats. This is a particularly useful method of displaying linked As-Constructed Design Engineering plans linked to Geo-scan boundary objects.

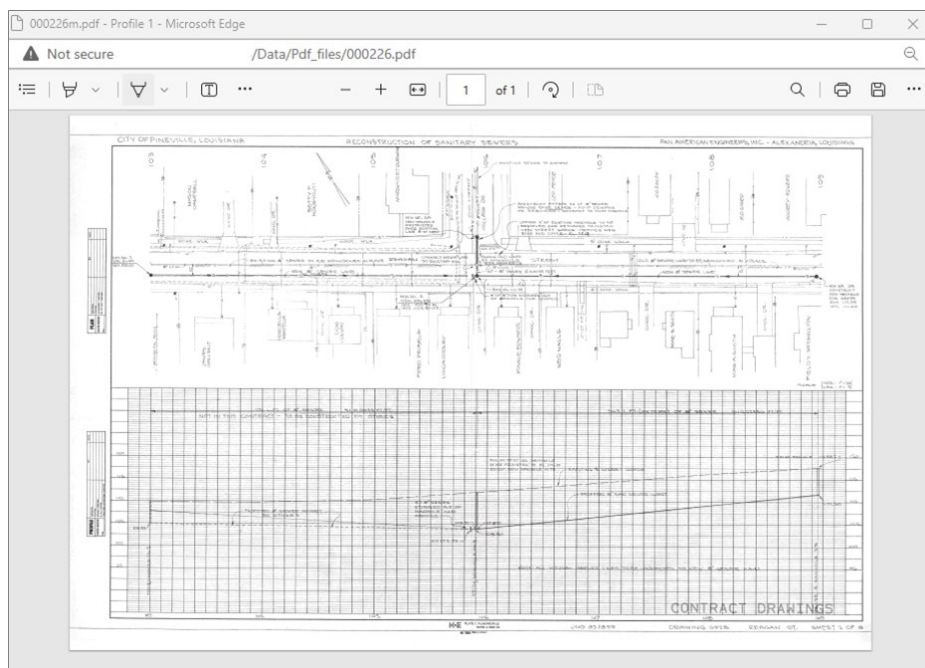


Figure 18: Full image can be viewed in separate browser window.

6 Managing the display of Layers on the Map

The **Layers** pane  displays the list of layer groups and layers available within the map. It also acts as a legend by showing how each feature is displayed graphically on the map. Permission to view the Layer Groups and individual Layers are assigned by the Administrator in the Manage User and Permissions.

In the event the **Layers** pane is not fully opened scroll bars are displayed at the bottom of the pane to scroll left and right, and to the right of the pane to scroll up and down. This allows the user to maximum space on the map where they do not have to manually resize the pane to navigate the layer groups and layers displayed in the pane.

The Layers pane level of transparency can be set in the **Set User Options** allowing the underlying map and layers to display partially or fully through the pane.

***Note:** The information will change depending on the scale of the map and layers that are made active, for example, more layers will become visible when zooming in and, once a layer is activated, the symbol will appear next to its description. This is caused by the specified layer scale dependency.*

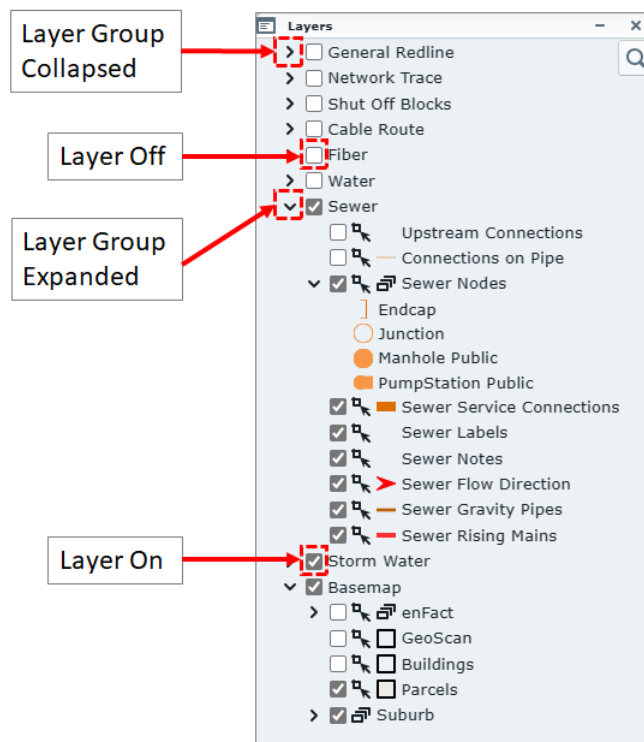


Figure 19: Full image can be viewed in separate browser window.

By clicking on the selection layer icon  next to individual layer tick-boxes in the Layers pane, the user can set the layer to be non-selectable. If the layer forms part of a selection on the map, none of the map features authored on that layer are included in the Select set. The layer icon changes to  indicating the layer is now non-selectable. This is a temporary setting for the user's session or until the selection icon is selected again, whereby the layer becomes selectable again.

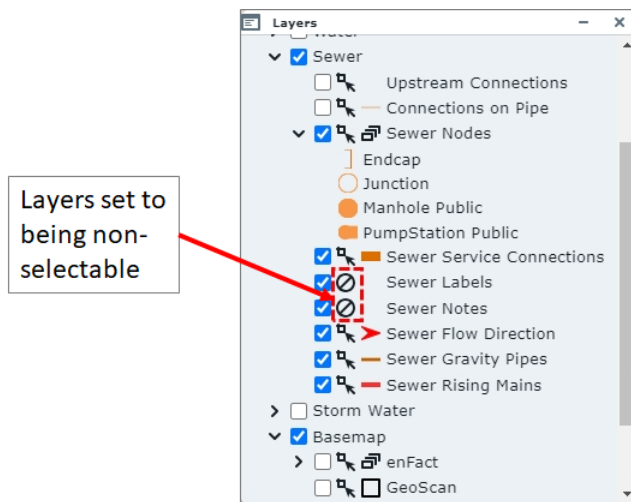


Figure 20: Setting Layers to be non-selectable.

7 Background Map

The Background map, otherwise referred to as an **External Map Layer**, is configured by the Administrator and the user can select the **Add External and Local Layers** function  on the Main Toolbar to set the background map on which their own spatial data will be displayed.

OpenStreetMap is a free, editable map of the whole world created by a community of mappers who contribute and maintain mapping data. **Bing™ Maps** is a web mapping service provided by Microsoft's Bing suite of search engines and powered by Bing Maps Platform framework. Both frameworks are free to view as background information in enlighten.

All external layers added during the enlighten session are temporary and are removed from the Layers pane once the enlighten session is closed. These external layers are also not available for inclusion in the **enPlot Plot Engine** function  or the **Quick Plot** .

NOTE: *There may be some additional licensing requirements to consider before the external providers can be configured for display. Please consult the enlighten Admin Guide for details on configuration and reach out to [Support Team](#) for assistance.*

Below are some examples of the external provider options that can be configured:

- Open Street Maps
- Bing™ Maps Street
- Bing™ Maps Aerials
- Bing™ Maps Aerials (with Labels)
- World Imagery
- Mapbox Satellite
- Mapbox Streets

If the External Provider is set to **NONE**, no background is displayed at all. Below is an indication of the various external providers available from the drop-down list and what is displayed in terms of features.

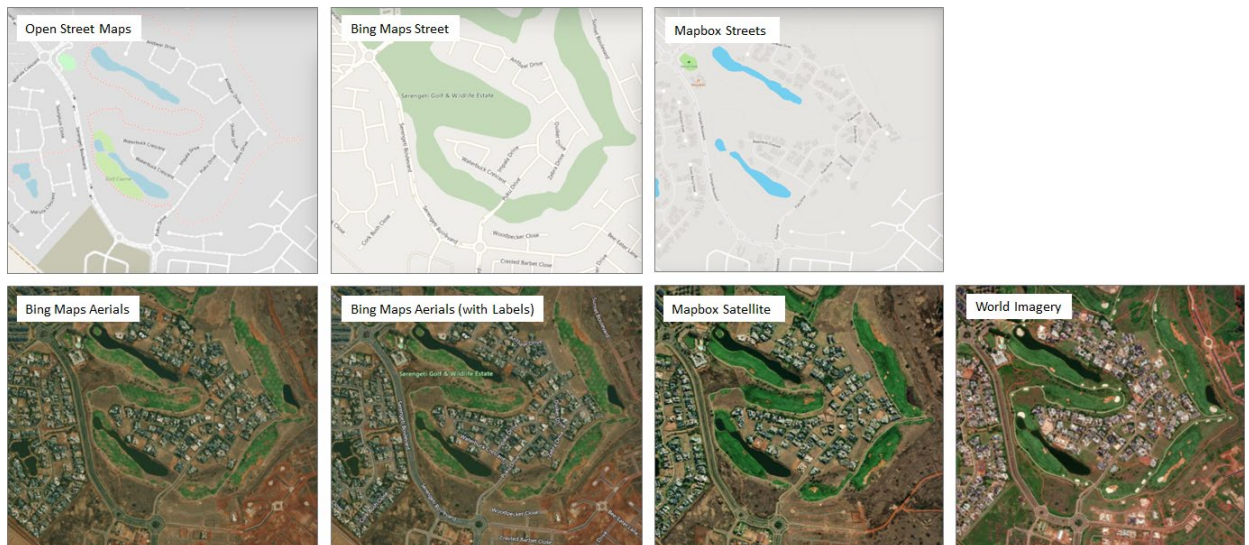


Figure 21: Display of Background Maps which can be configured

To set the background map, select the **Add External and Local Layers** function  on the Main Toolbar, and in the drop-down box at the top of the **Add/Manage Layer** pane, select one of the **External Providers** configured.

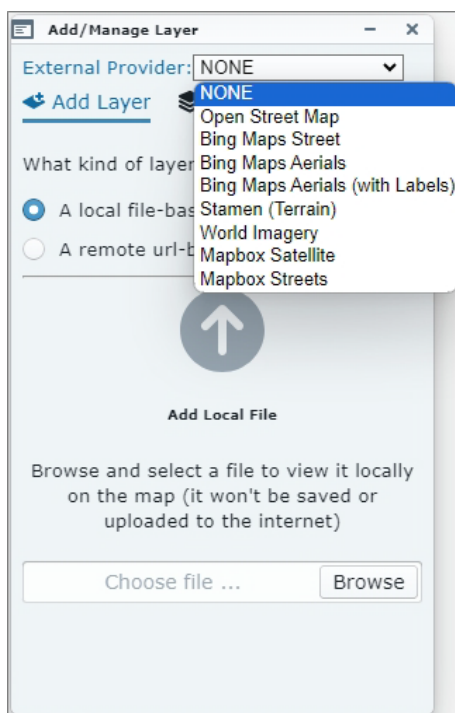


Figure 22: Setting the Background Maps

8 External Provider Layer

Users can add different external layers as either Web Map Service, Web Feature Service or an ESRI Feature services to use as background maps to their spatial data. Using the **Add External and Local Layers**  option from the Main toolbar, allows you to select which type of external layer using a remote url-based layer type.

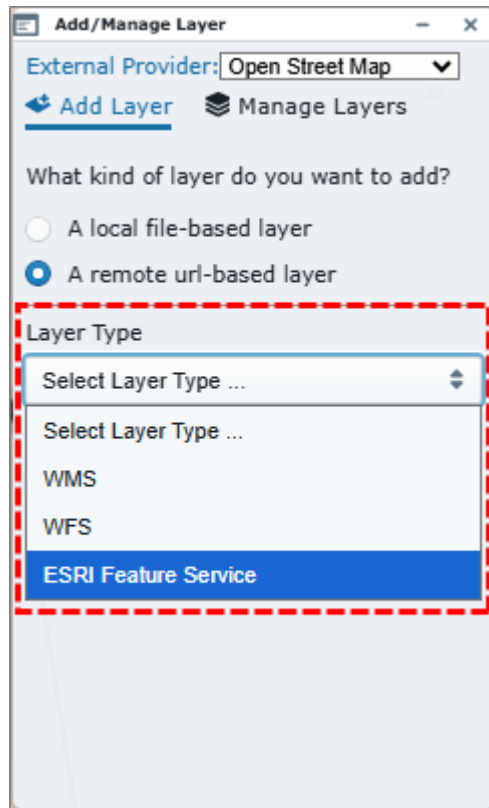


Figure 23: Selecting URL-based External Layer Type

The example below illustrates adding an **ESRI Feature Service**, where the ESRI Feature Service serves feature data over the internet to make them available for use in web clients and field applications. The REST endpoint (URL) for the required ESRI Feature Service is unique per customer and configurable as part of the Enlighten settings by the Enlighten Administrator.

The ESRI Feature Service is ESRI's standard protocol for serving Geospatial data as vector features with geometry and attributes which clients can use in Geospatial analysis and run on ArcGIS GIS Server sites. The Web Feature Service (WFS) allows clients to request specific feature data from a server and display the features as an external layer in the layer pane to be used as backdrop information

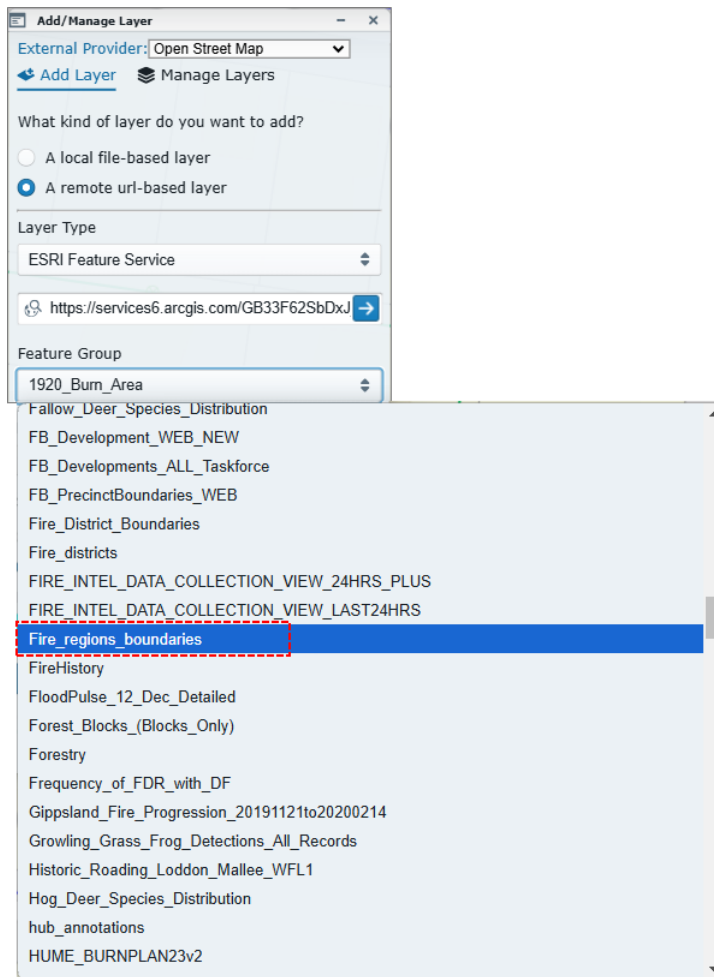


Figure 24: Example of adding an ESRI Feature Service layer

The result displays the selected feature as an additional External Layer on the Layers pane.

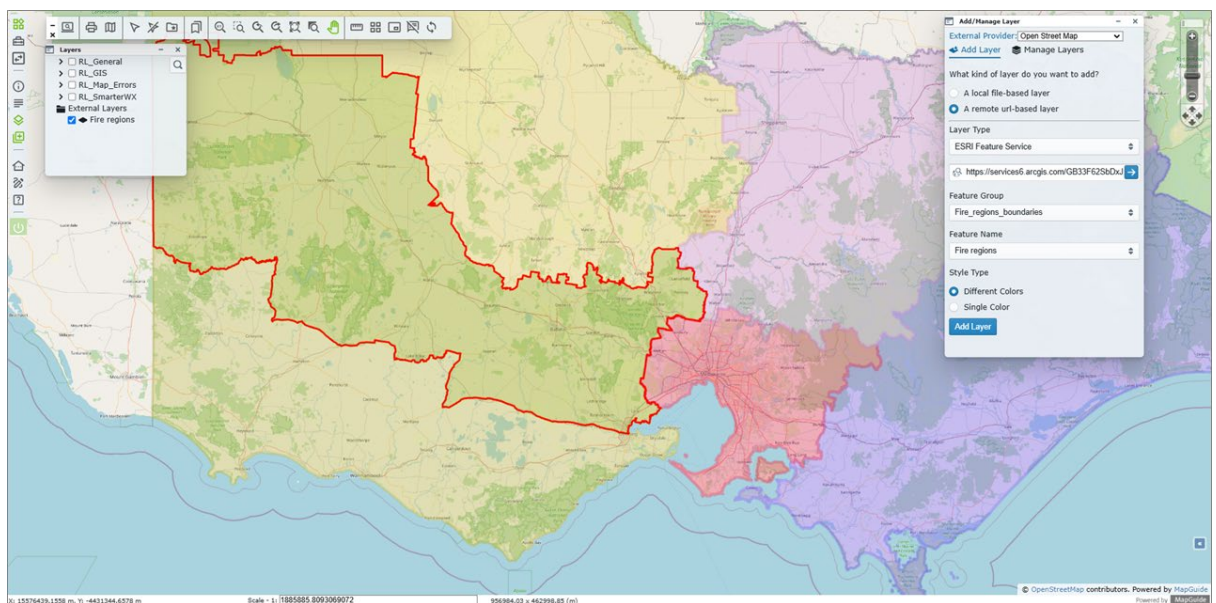


Figure 25: Example of displaying an ESRI Feature Service layer

9 Quick Plot

The **Quick Plot** function  on the Enlighten Toolbar is a component of MapGuide Open Source and allows users to generate a quick plot of the map display and publish to PDF.

Within the Quick Plot tools users can set the page size, orientation, scale and determine if the map legend, scale bar, north arrow etc. is to be displayed on the map. By default, the Quick Plot uses the current screen map scale and orientation.

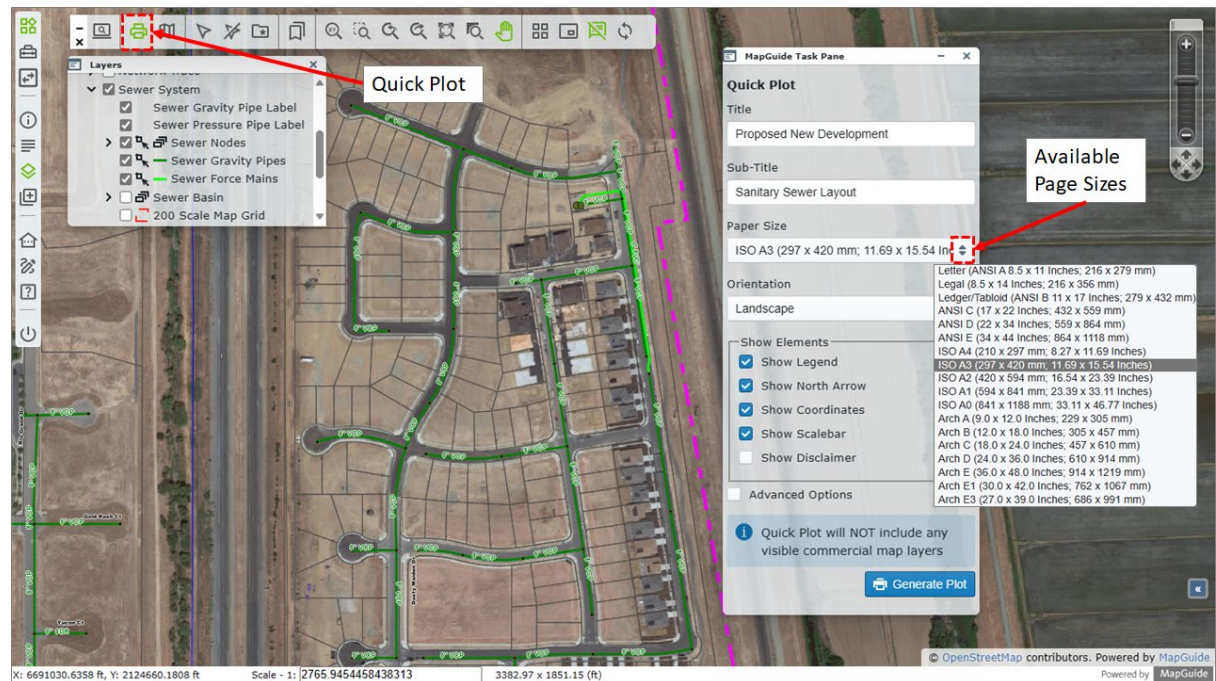


Figure 26: Quick Plot pane displaying various page sizes to select from

The different Quick Plot paper sizes are pre-configured and can be selected from the drop-down list which is determined by the **UNIT** defined in the Map Projection setup for the enlighten base map. If the **UNIT** parameter in Projection definition is set to **Feet**, the Page Sizes are displayed in **Inches (in)**, and conversely, if the **UNIT** parameter in Projection definition is set to **Meters**, the Page Sizes are displayed **Millimeters (mm)**.

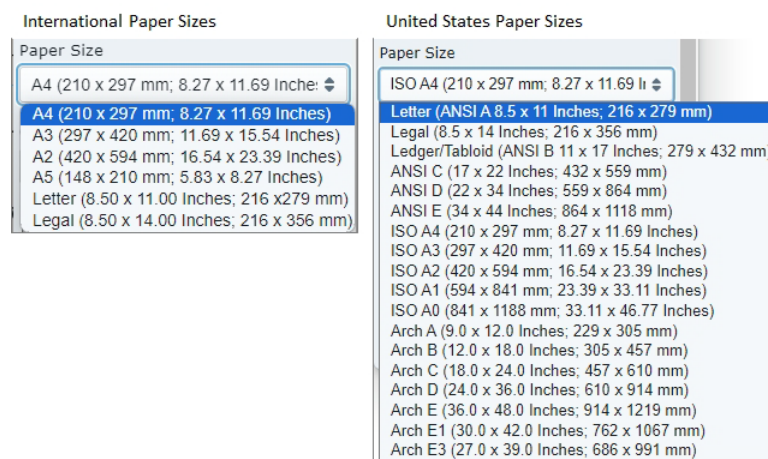


Figure 27: Quick Plot page sizes depend on units in the Map Projection

QuickPlot has **Advanced Options** allowing the user to set the map scale, DPI and orientation. Changing any of these settings dynamically updates the Capture Box outline on the map displaying the extents of the area included in the plot.

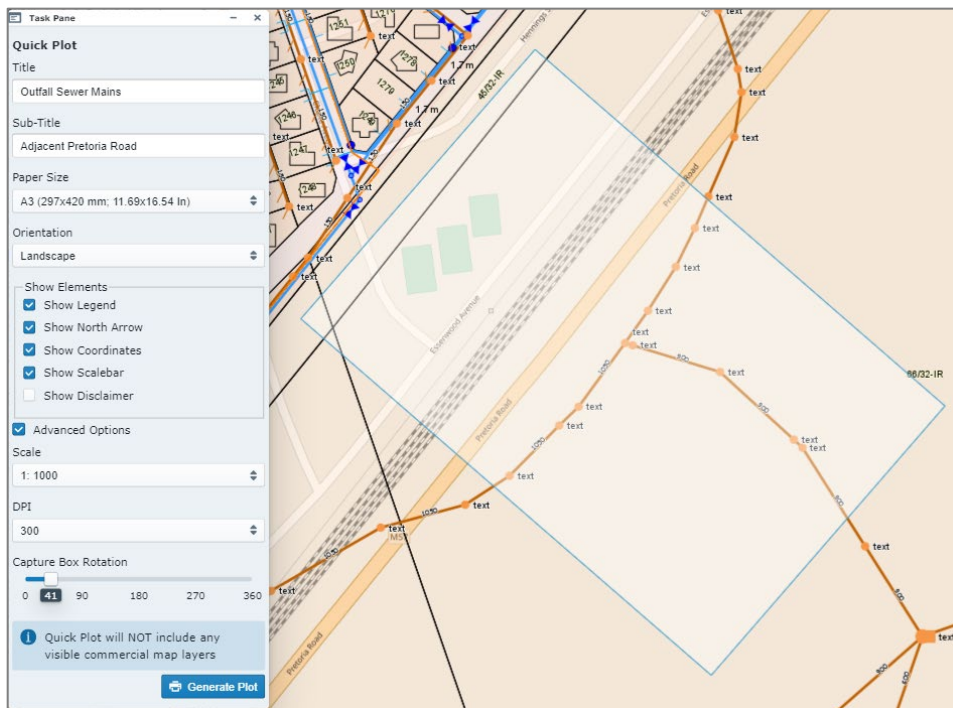


Figure 28: Quick Plot Advanced options

The QuickPlot generates a **PDF** file and applies the options selected in terms of Legend, North Arrow, Coordinates, Scalebar etc., which can be downloaded to a folder of your choice and viewed using your default PDF viewer.

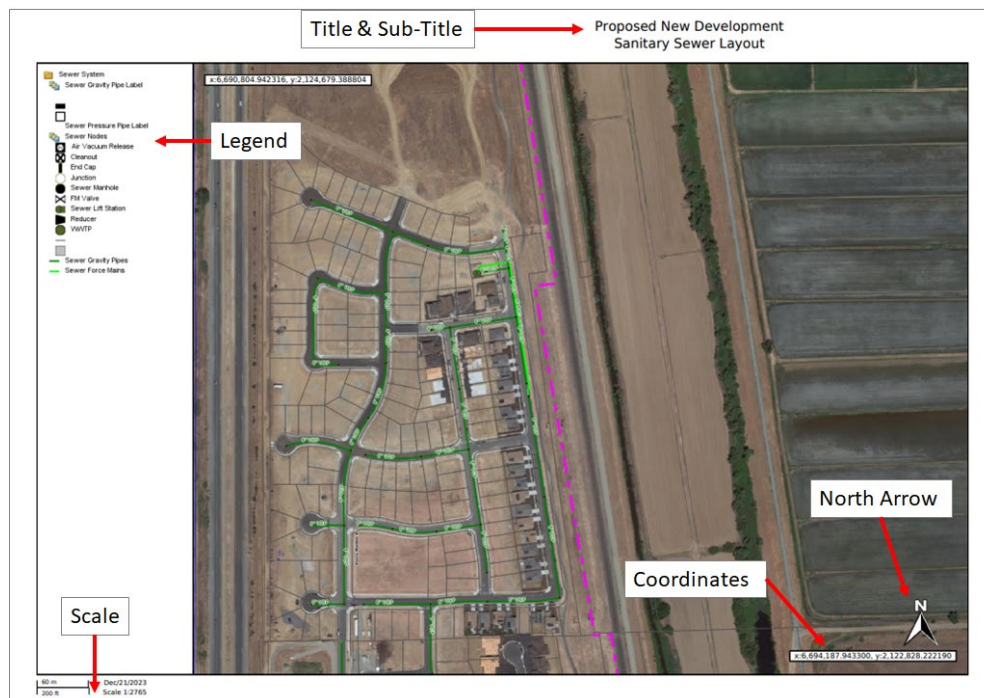


Figure 29: Generates a Plot as a PDF file

10 Set User Options

Selecting the **Set User Option**  function on the Enlighten Toolbar opens the Set User Options pane. This pane sets and saves the behaviour of various map displays for the current and future enlighten sessions.

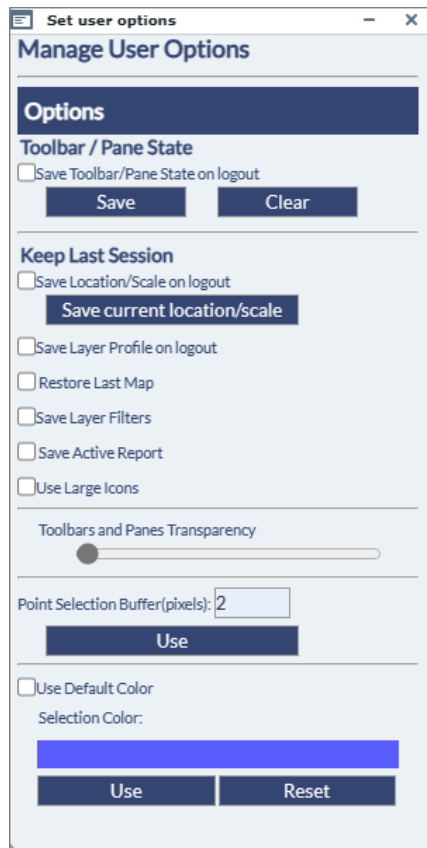


Figure 30: Manage User Options pane

10.1 Save Toolbar / Pane State on logout.

The **Save Toolbar/Pane State on logout** setting, when checked, retains the state of toolbars and panes for subsequent enlighten sessions, so that when a user logs onto enlighten, their enlighten environment in terms of which toolbars and panes are displayed by default, is restored. When the user logs into enlighten and selects the **Show/Hide** icon on the Main Toolbar, which ever toolbars and/or panes were displayed at the time they logged off from their previous session, will be restored for the current session.

10.2 Save Location / Scale on logout.

The **Save Location/Scale on logout** option allows the user to easily save the current location and scale of the map when the user logs out of enlighten. This is a feature which makes it convenient for the user to be directed to that specific point at logon, saving time in the process.

10.3 Save Layer Profile on logout.

The **Save Layer Profile on logout** allows the user to save the current/applied layer profile when the user logs out of enlighten. When the user logs back into enlighten, the layer profile which was saved on logout will be activated.

10.4 Restore Last Map

When the **Restore Last Map** checkbox is ticked then the last map position will be restored when the site is reloaded by pressing **F5**. If the **Reload Default Map** icon  is selected from the Enlighten toolbar, the default map will be restored.

If the user turns on the **Save Layer Profile on Logout** option, then this layer profile settings will be maintained when the user logs out and back into enlighten. If the **Save Layer Profile on Logout** option is turned on, and then the user turns on the **Restore Last Map** option then the initial **Save Layer Profile on Logout** option will be disabled.

10.5 Save Layer Filters

The **Save Layer Filters** option allows the user to save the current filter on a specific layer, when logging out and thereafter logging into enlighten. If this option is not ticked, then when the user logs out of enlighten then the layer filter would automatically be cleared.

10.6 Save Active Report

The **Save Active Report** enables the user to view the last Secondary Show Info form, which was viewed from within the detail view, as opposed to returning the primary Show Info form by default. This feature is beneficial when the user is concerned with a specific secondary form, and in some instances where there are multiple secondary forms it would save the user time and effort.

10.7 Use Large Icons

The **Use Large Icons** feature alters the size of the icons displayed on the toolbars and when set, makes the icons much larger for viewing purposes. This can very effective and useful when using a browser on a tablet or phone as the display would be larger and easier to view and select. On the other hand, using smaller icons provides more real-estate space on the map to display other panes more efficiently.



Figure 31: Large and Small Icon sizes

10.8 Toolbars and Panes Transparency

The user has the option to alter the **Transparency** level of the Panes and Toolbars. This setting, when checked is saved when the user logout and is restored for the next enlighten session. The transparency scroll bar sets the opacity level of the Toolbars and Panes. If the scroll bar is set all the way to the left, the transparency level is set to 0% (non-transparent), and conversely, if the scroll bar is set all the way to the right the transparency level is set to 100% (fully transparent).

10.9 Point Selection Buffer- Pixels

Users can specify the point selection buffer size so that they can select single point features of various sizes on the map. This value is measured in pixels and the default value is set to **2**. Any changes to this setting is retained for subsequent sessions if the Use button is selected to effect the new pixel size entered.

10.10 Use Default Colour

When this option is ticked then the user's specified selection colour is ignored and overwritten with the Default Selection colour. This can be useful for instances when the user wishes to revert to a standardized selection to maintain consistency.

11 EnPlot Plot Applications

The enPlot Plot applications and plot application delivers high-quality plotting, printing to scale, printing on various selectable page sizes and generates a PDF output from within enlighten and third-party applications.

The enPlot functions are configured by your enlighten administrator. Not all plot applications may be available to you.

1. To access enPlot Plot Engine, select the  on the Enlighten toolbar. This will open the Enlighten Task Pane which displays all the plots applications available to you as configured by the Administrator. Plot Application Groups will be displayed with the option to expand them. Underneath the groups, all the plots that have been defined for you will be visible.

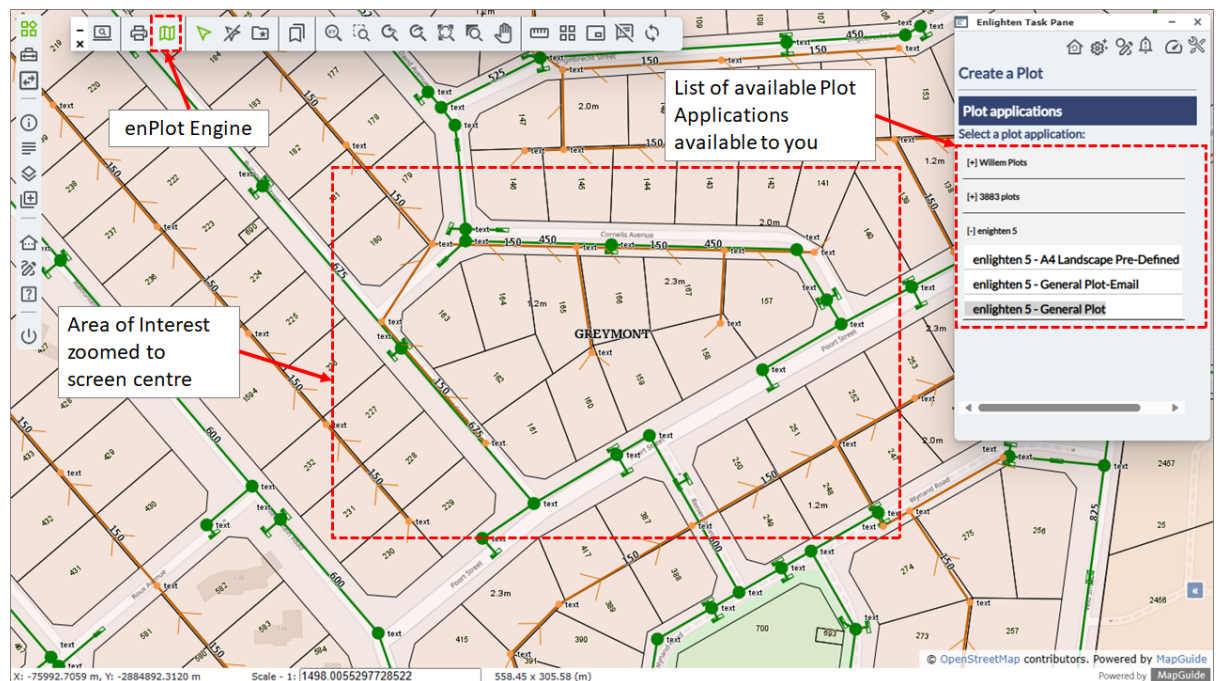


Figure 32: enPlot Plot Application pane

2. Ensure you zoom to the area of interest to be included in the plot before generating the plot.
3. Once you have selected a plot application from the list, for example **Enlighten 5 – General Plot**, the **enPlot dialog box** will appear. Plot options are dependent on configuration. Plots may be:

- **Pre-defined Plot:** A Pre-Defined plot contains more information, which is pulled from the database.
- **General Plot:** A General plot is usually a simple interface.

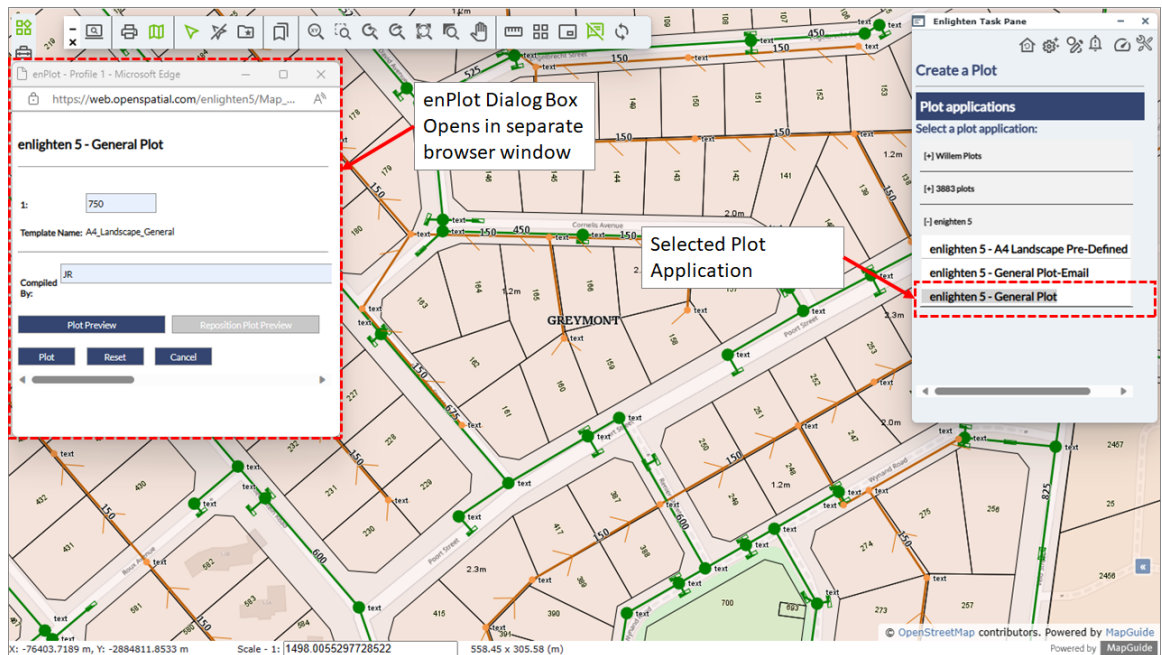


Figure 33: EnPlot Dialog Box based on selected Plot Application

4. Enter the required **scale** (defaults to the current map window scale) and complete the **Compile By** text box.
5. Select the **Plot Preview** button to see the area covered by the Plot window. A red box on the map denotes the area of coverage based on the scale and position of the map centre point.

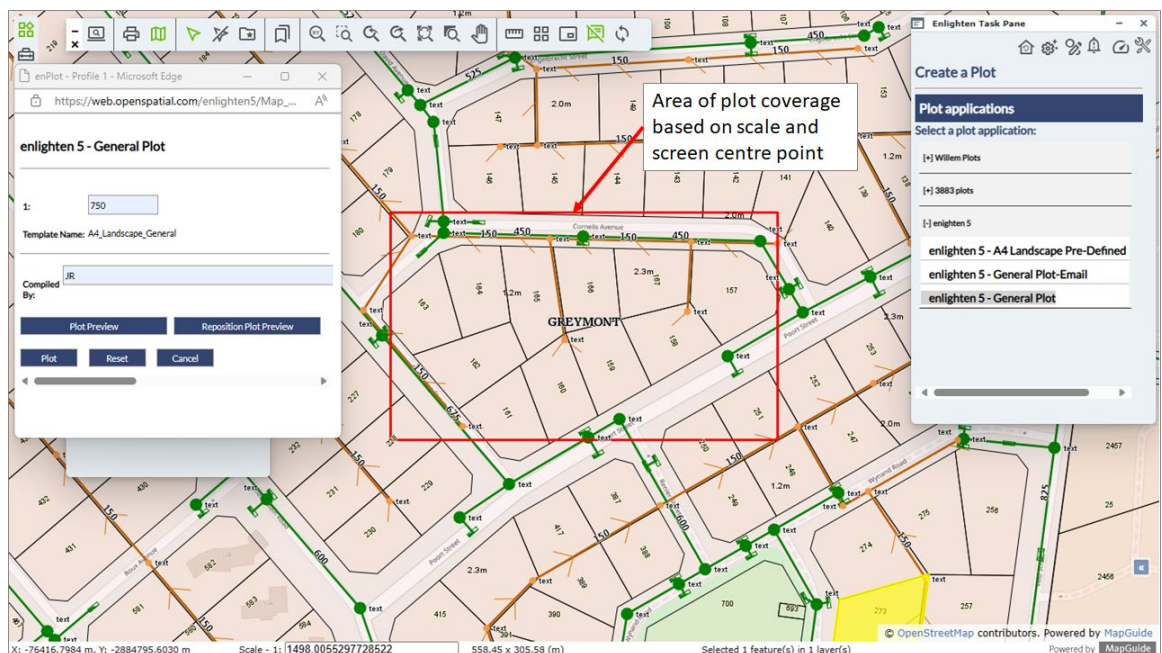


Figure 34: Plot coverage based on Scale and map centre point

- You can change the **scale** and select the **Reposition Plot Preview** button to change the centre position of the plot window.

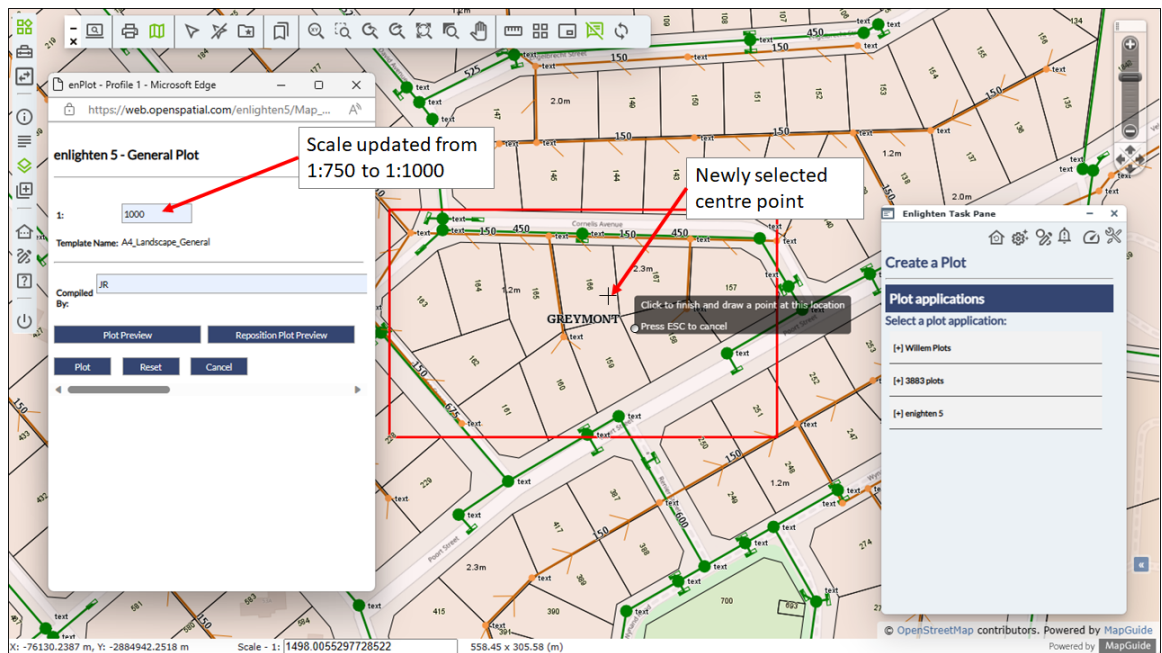


Figure 35: Change scale and map centre point

- Reselecting the **Plot Preview** button redraws the plot boundary using the updated scale and position.

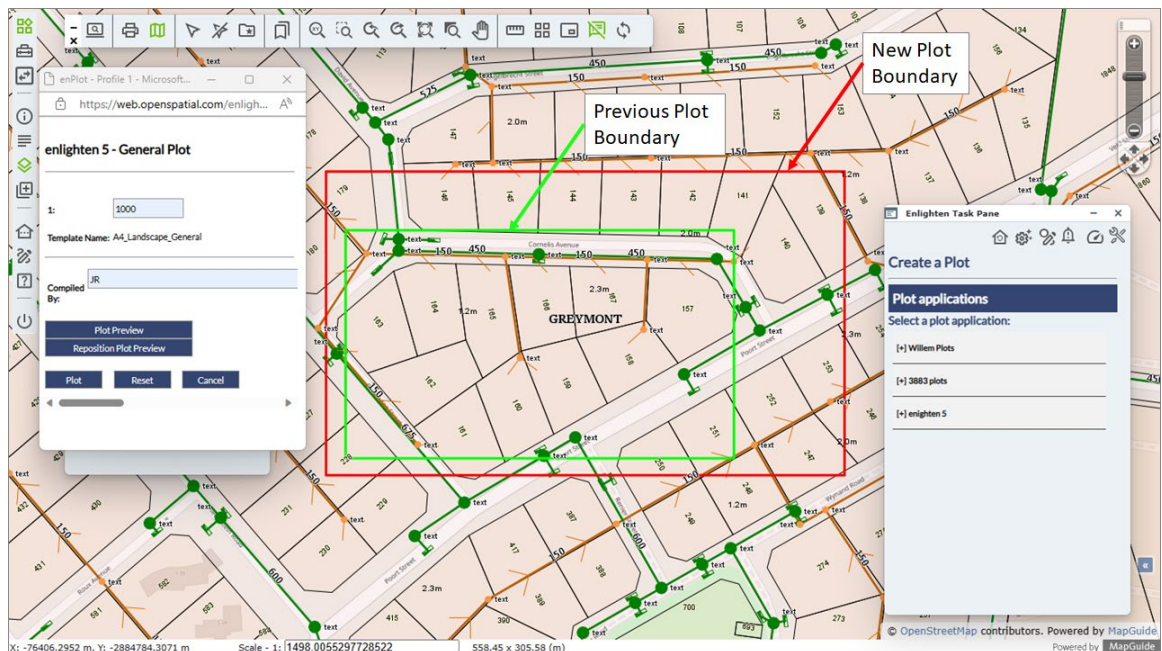


Figure 36: Change scale and map centre point

- Selecting the **Plot** button generates the plot as defined in the Plot Application. This differs according to the different plot application configurations.