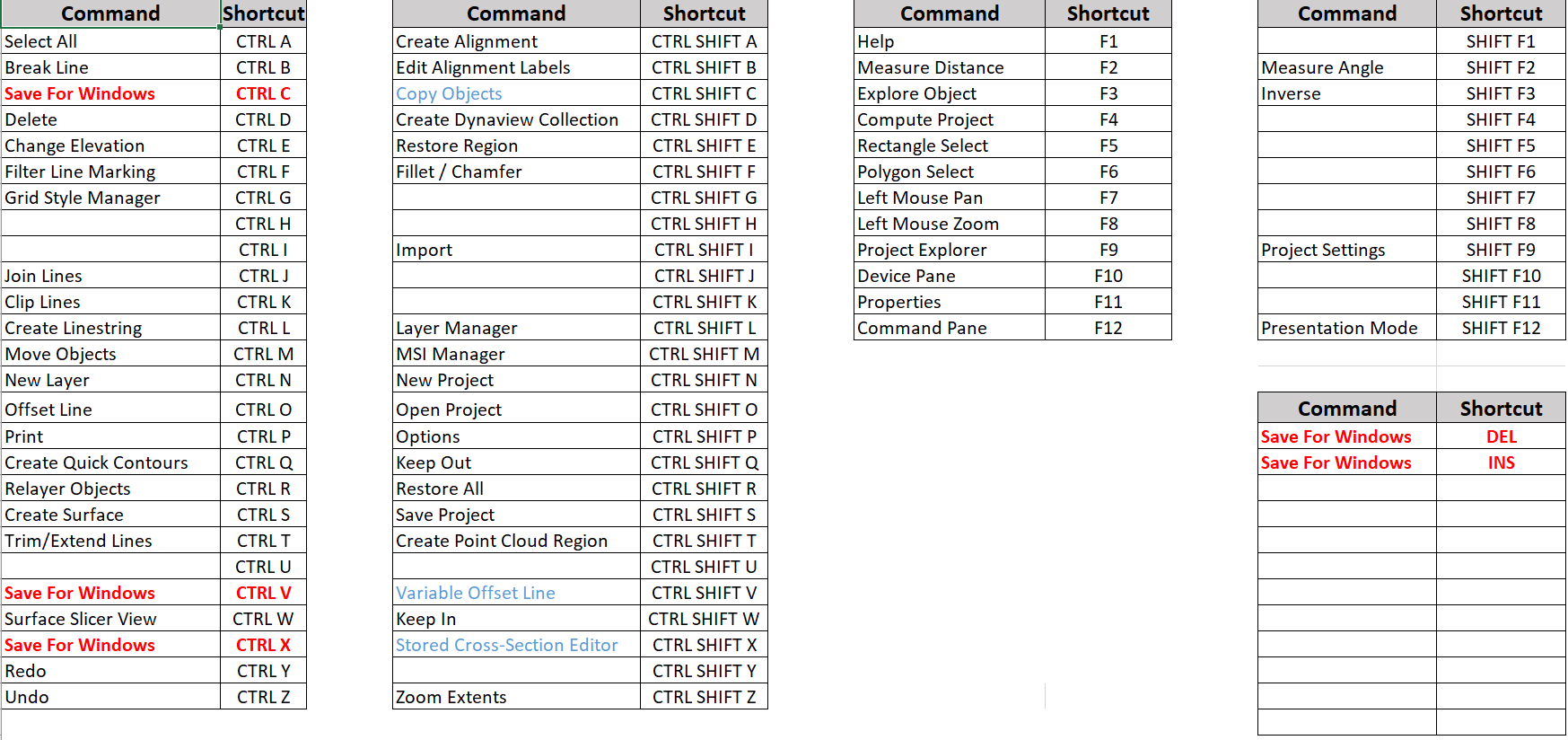
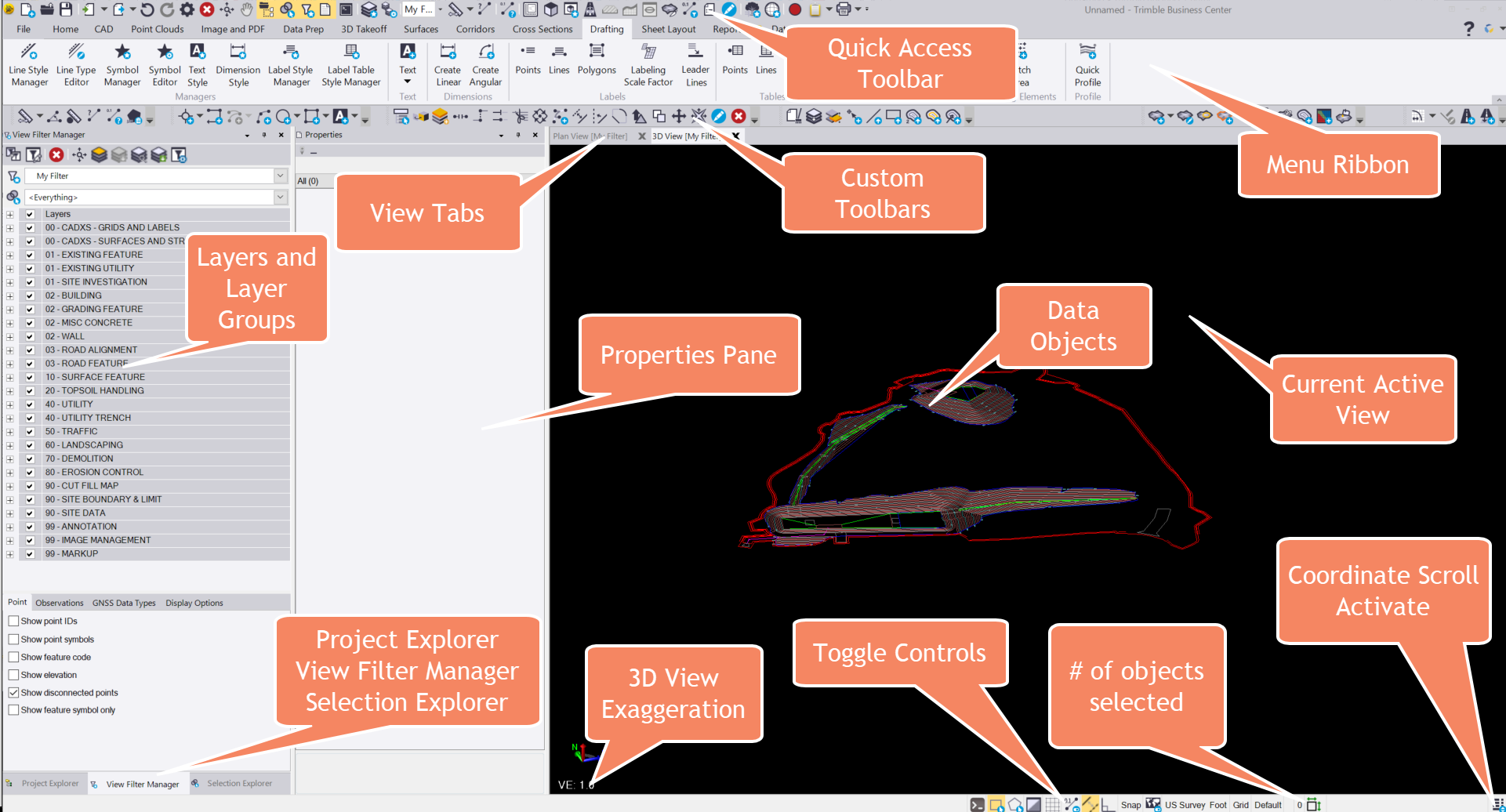
**RPS Custom Keyboard Shortcuts**



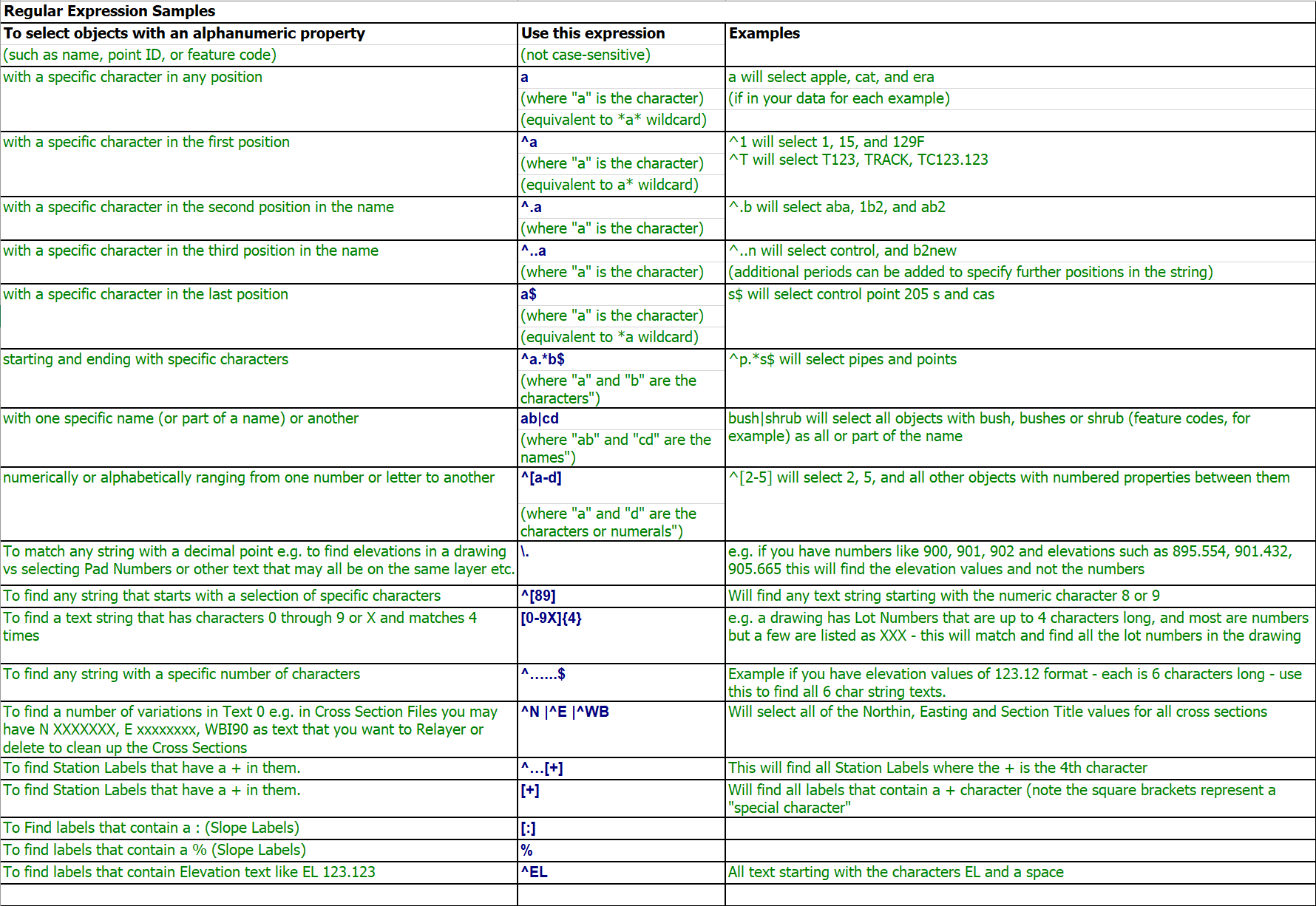
**3D View / Plan View Mouse Controls**

|  |  |
| --- | --- |
| **Forward / Reverse Wheel of Mouse** | **Zoom In and Out** |
| Click Wheel of Mouse and Move | 3D Rotation |
| Right Click of Mouse | Pan |
| Left Click of Mouse and Drag | Select (note Top Left / Bottom Right (Inside) or Bottom Right to Top Left (Crossing) differences) |
| Left Click an Object | Select / Deselect |
| CTRL Click an Object | Incremental Select / Deselect |
| SHIFT Click Objects | Incremental Select / No Deselect |
| ALT Left Click | Center Rotation of 3D View – ALT Left Click white space to clear center |
| SHIFT when drawing a line | Ortho Snaps |
| CTRL SHIFT Wheel | Vertical Exaggerate the View (3D, Profile, Section, Slicer, Superelevation Views) |

**TBC User Interface**



**Useful Regular Expressions**



**TBC Data Types and Structures**

**Project**

* Project Template
* Project Settings

**User Options**

* Users unique settings and setups

**Layer Groups**

**Layers and Layer Settings (By Layer)**

**CAD Objects**

* Points
* CAD Lines
  + \*Polyline (2D Object with optional one elevation)
  + \*CAD Line (3D Object)
  + Boundary (2D Object, closed line, with optional one elevation)
  + \*Polygon (3D Object, like a closed linestring)
  + \*Circle (2D Object with optional one elevation)
  + \*Rectangle (2D Object with optional one elevation)
  + \*Ellipse (2D Object with optional one elevation)
  + \*Arc (2D object with optional one elevation)
* TBC Lines
  + \*Linestring (TBC 3D Line Object)
  + Alignment (Horizontal and Vertical Alignment Geometry, Superelevation and Station Equations)
  + Drape Lines (Dependent Objects on a surface and a source line)
* Blocks (3D objects)
* Hatch Patterns
* Text – Single Line or Multiline Text Objects with Smart Text Capabilty)

**TBC Objects**

* Surface Models
  + Normal Surfaces
  + Layer Surfaces (Created from groups of layers in Takeoff)
  + Strata Surfaces (Created from Borehole and Strata Settings)
  + Corridor Surfaces (Derived from Corridor Template Models)
  + Cut Fill Map / Isopach Surfaces (Difference Models (Dependent Objects)
  + Alignment Based Surfaces with / without Surface Densification
* Point Clouds
* Scans
* Images / PDF Page Images
* Corridor Models
* Sideslopes
* Surface Ties
* Vertical Designs
* Stored Cross Sections
* Surface Profiles

**Drafting Objects**

* Plotboxes
* Dynaviews (Similar to AutoCAD Viewports)
* Dynaview Grids

**Styles**

* Text Styles
* Label Styles
* Label Table Styles
* Dimension Styles
* Grid Styles
* Linestyles

**Libraries**

* Block Libraries
* Hatch Pattern Libraries
* Linestyle Libraries
* Symbol Libraries
* Materials and Site Improvement (MSI) Libraries
* Texture Libraries

**Templates**

* Project Templates
* Drafting Templates