

Bridge Design Models – Layout Points

Soil Nail Walls

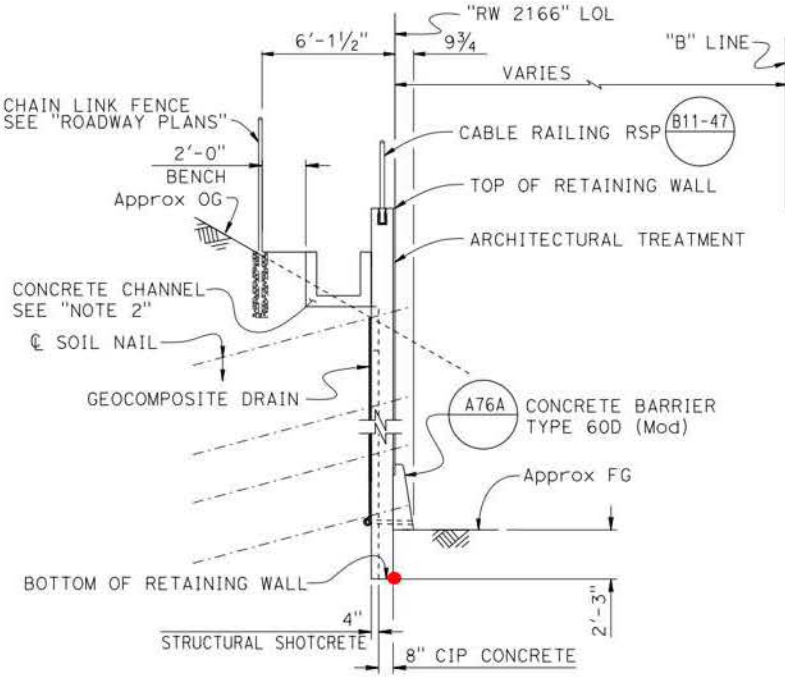
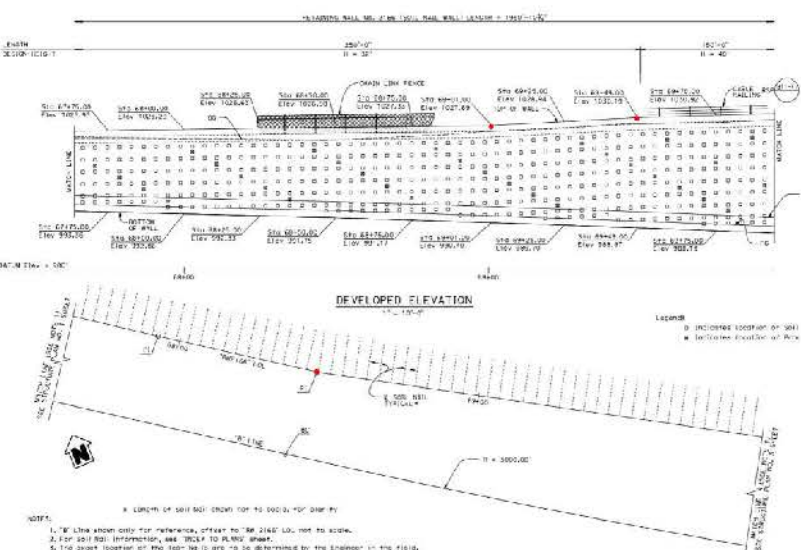
Note: Bridge Design will provide the following files:

File	Format
Retaining Wall Layout Line and Top of Wall Profile	LandXML

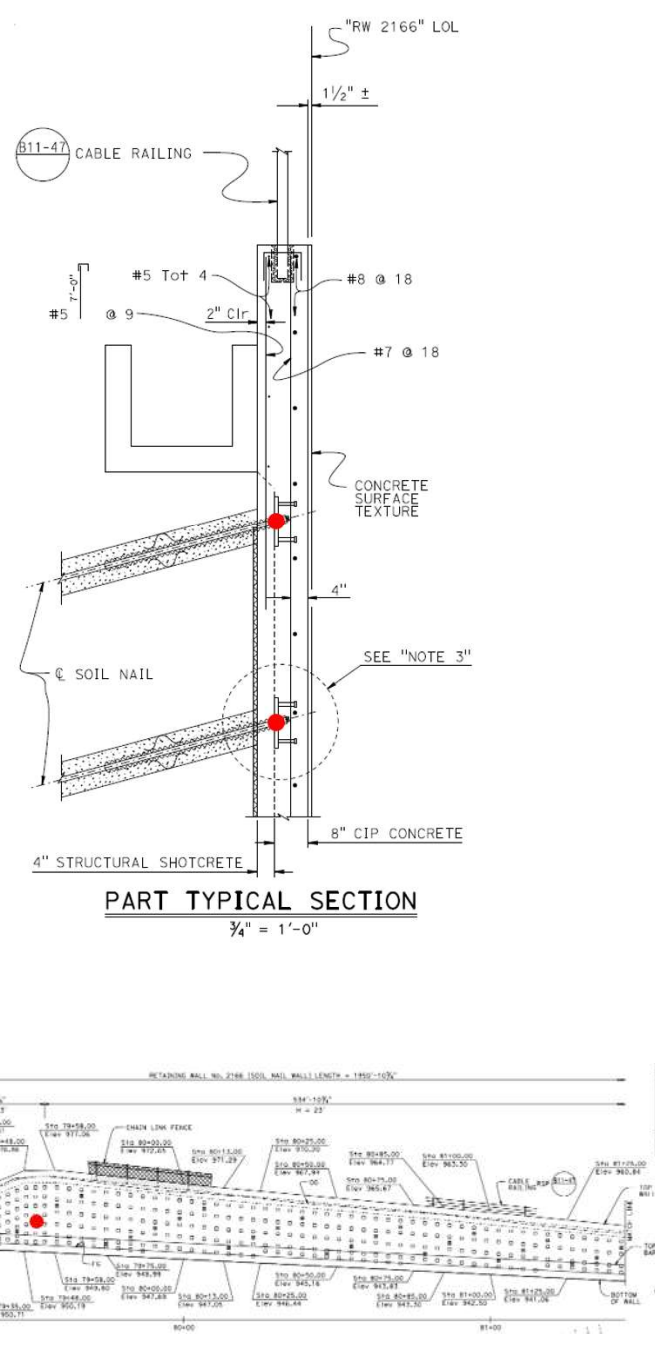
In addition, the following layout points will be provided

Layout Points	Description of Layout Points
	Points at the top of wall (along Retaining Wall Layout Line) at 5 ft increments. - Include points at the beginning of wall and end of the wall.

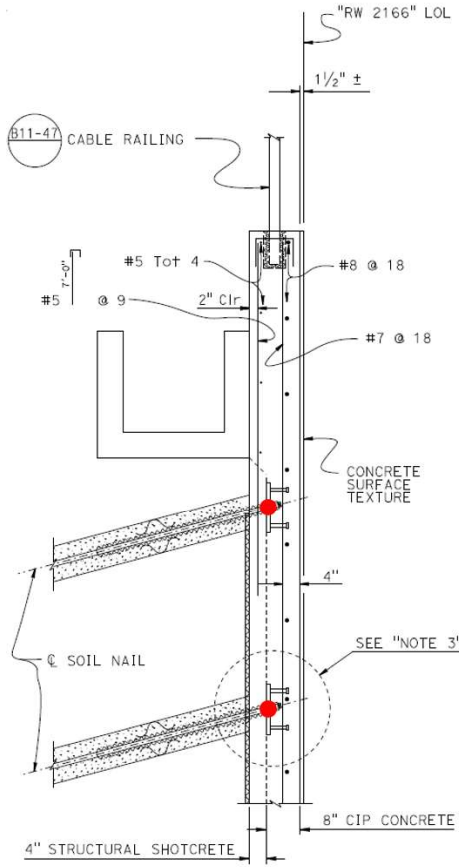
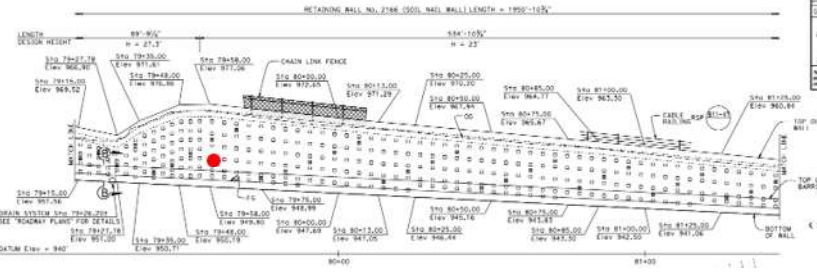
CALTRANS BRIDGE DESIGN TEMPLATE REQUIREMENTS PACKAGE

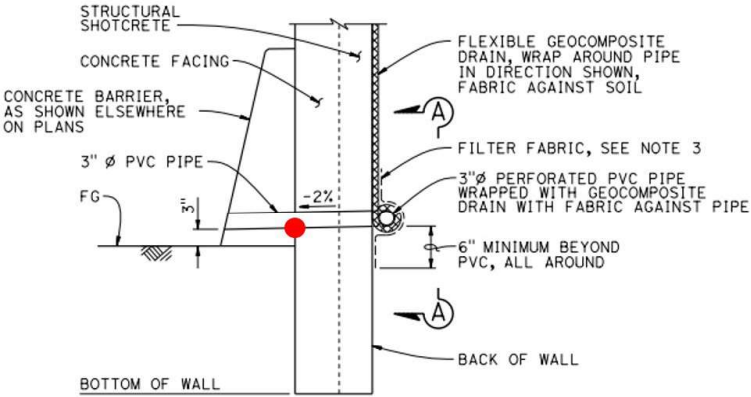
Layout Points	Description of Layout Points
	Points at the bottom of wall (along Retaining Wall Layout Line) at 5 ft increments. - Include points at the beginning of wall and end of the wall.
	Points at the top/bottom of wall (along Retaining Wall Layout Line) at angle point(s) in the wall alignment or profile

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Layout Points	Description of Layout Points
 PART TYPICAL SECTION $\frac{3}{4}" = 1'-0"$	Point on the tendon located at the back of the shoring layer (Test Nails)

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Layout Points	Description of Layout Points
 PART TYPICAL SECTION $\frac{3}{4}'' = 1'-0''$ 	Point on the tendon located at the back of the shoring layer (Production Nails).

Layout Points	Description of Layout Points
 The diagram illustrates the cross-section of a bridge wall and its foundation. Key components and labels include: STRUCTURAL SHOTCRETE: The main body of the wall. CONCRETE FACING: The outer surface of the wall. CONCRETE BARRIER, AS SHOWN ELSEWHERE ON PLANS: Located at the top of the wall. 3" Ø PVC PIPE: A vertical pipe on the left side of the wall. FG: Finished ground level. BOTTOM OF WALL: The base of the wall structure. -2%: A slope indicator for the ground surface. FLEXIBLE GEOCOMPOSITE DRAIN, WRAP AROUND PIPE IN DIRECTION SHOWN, FABRIC AGAINST SOIL: A drainage layer around the vertical pipe. FILTER FABRIC, SEE NOTE 3: A layer separating the drainage from the soil. 3"Ø PERFORATED PVC PIPE WRAPPED WITH GEOCOMPOSITE DRAIN WITH FABRIC AGAINST PIPE: A horizontal drainage pipe at the base of the wall. 6" MINIMUM BEYOND PVC, ALL AROUND: A dimension indicating the extent of the drainage layer. BACK OF WALL: The rear side of the wall. Point A: A red dot on the ground surface, indicating a specific layout point.	Points located at weep hole bottom of pipe elevation. Point is located at the outside face of wall. Note that weep hole location is approximate based on Standard Plan B0-3 or as shown in the design plans.