



**CROSS-SECTION**

**SEQUENCE OF CONSTRUCTION**

1. Drill hole for soldier pile.
2. Remove loose material and excess water from hole and Set Soldier Pile in hole, using temporary bracing to maintain correct elevation, clearances, and position during and after placement of concrete.
3. Place Encasement Concrete around soldier pile to the level indicated in Table on sheet 4 of 20. Place Controlled Low Strength Material (CLSM) concrete to the ground surface.
4. After concrete has cured, excavate in front of wall in stages removing only the soil and CSLM concrete necessary to place each timber lagging, and the Geocomposite Wall Drain.
5. After lagging and Geocomposite Wall Drain placement has reached the elevations shown in Table on sheet 4 of 20, install, test, and lock off Permanent Ground Anchor (see special provisions).
6. Continue the excavation for construction of French Drains and line trench with Geotechnical Filter Fabric.
7. Place the 100  $\phi$  perforated corrugated polyethylene (PE) tubing and connect the vertical geocomposite wall drain to the longitudinal French Drain and backfill as shown on the plans. Construct wall panels.

**SUGGESTED METHOD OF CONSTRUCTION FOR CUT SITUATION**

1. Install three successive Soldier Piles in permanent locations in the shallow area starting at the south end (Panel 0). See the Sequence of Construction.
2. Place timber lagging to an appropriate elevation for creating a temporary platform as shown above. The progressive end of the platform terminates with an embankment cone of the non-excavated area.
3. Use this platform to install the next two soldier piles & lagging.
4. Install first level of Permanent Ground Anchors where necessary as the platform construction progresses.
5. Repeat the above procedure to install all the soldier piles and until the temporary platform is continuous from one end to the other.
6. The remaining operations shall follow the Standard Construction Procedures for tieback walls for top down construction.

Notes: The Contractor shall submit a detailed Construction Procedure outlining the whole Sequence of Construction along with the computations to the Engineer for review and acceptance. The submitted documents shall be sealed by a Structural Engineer registered in State of Illinois.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SEQUENCE OF CONSTRUCTION**  
**RETAINING WALL 82**  
**F.A.I. RTE. 74 (I-74)**  
**SECTION 90-11HB-5**  
**TAZEWELL COUNTY**  
**RAMP K-2 STATION 10+378 TO 10+507**  
**STRUCTURE NUMBER 090-8513**

REVISIONS	
NO.	NAME

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