

## TOTAL BILL OF MATERIALS

SP WALL NO. 21		
ІТЕМ	UNITS	TOTAL
Structure Excavation	Cu. Yd.	1,226
Concrete Structures	Cu. Yd	182.4
Protective Coat	Sq. Yd.	448
Stud Shear Connectors	Each	1,196
Untreated Timber Lagging	Sq. Ft.	2,707
Furnishing Soldier Piles (W Section-14x99)	Foot	179
Furnishing Soldier Piles (W Section-27x194)	Foot	535
Furnishing Soldier Piles (W Section-30x211)	Foot	487
Drilling and Setting Soldier Piles in Rock	Cu. Ft.	4,082
Drilling and Setting Soldier Piles in Soil	Cu. Ft.	6,027
Reinforcement Bars (Epoxy Coated)	Pound	15,325
Geocomposite Wall Drain	Sq. Yd.	154
Rubbed Finish	Sq. Ft.	637
Form Liner Textured Surface	Sq. Ft.	3,395
Rock Excavation for Structures, Special	Cu. Yd.	28.5
Anti–Grafitti Coating	Sq. Ft.	4,032

Staining Concrete Structures Sq. Yd. 377 10. The approximate embedment depth for the soldier pile tip is as provided on the plans and considers a penetration into competent rock of 5.5 feet (minimum) based on the soil boring information and uniaxial compressive rock strength value of 4,000 PSI (minimum) as provided by Terracon Consultants, Inc. The actual top of rock elevation, which qualifies as competent rock meeting the minimum requirements of the design, shall be determined and field verified by the geotechnical engineer during the drilling operation at each soldier pile location. Final pile tip elevations shall be a minimum of 5.5 feet below actual top of competent rock elevations.

> 11. All exposed edges shall have a  $\frac{34}{2}$  x 45° chamfer, except as shown otherwise. Chamfers on vertical edges shall be continued a minimum of one foot below finished ground level.

12. Exposed surfaces of concrete shall be given a "rubbed finish" except where form liner is specified.

13. Contractor shall be responsible for any dewatering in accordance with the erosion control plan at no additional cost to the contract.

14. Backfill behind wall shall be placed to the lines and arades as shown on the plans. The Contractor shall take care to ensure the use of suitable material and proper compaction of all fill areas. Compaction shall be performed with a loose thickness of no more than 8" and each lift shall be compacted to a density equal to or greater than 95% standard proctor maximum dry density (ASTM D-698) taking care not to over compact the soil directly behind the wall. Moisture shall be within -2 to +3 percent of optimum. No heavy equipment shall be allowed within 6 feet of the wall during backfilling and compaction. Compaction shall be by hand method, "walk behind", equipment in the areas within 6 feet of the face of the wall.

15. The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with allowable bending stress of 1000 psi.

GENERAL PLAN & ELEVATION SP WALL No. 21 PEDESTRIAN RIVERWALK ALONG THE ROCK RIVER WINNEBAGO COUNTY <u>SECTION NO. 06–00543–00–BT</u> STATION 208+13.27 TO STATION 210+79.46

			1. Sec. 1. Sec			
	F.A. RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
06-00543-00-BT			WINNEBAGO	148	85	
			CONTRACT NO	CONTRACT NO.		
	FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJEC	т		