

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications & Supplements

DESIGN STRESSES

Precast Units
fy = 60,000 psi
f'c = 5,000 psi (Precast)

Field Units
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 Gr. 50)

HIGHWAY CLASSIFICATION

F.A.P. Rte. 742 - IL. Rte. 2
Functional Class: Other Principal Arterial
ADT: 8,950 (2005) ; 10,350 (2025)
DHV: 1035 (2025)
Design Speed:
55 m.p.h. (Sta. 643+30 to 1053+97.44)
Posted Speed:
55 m.p.h. (Sta. 643+30 to 1053+97.44)

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	QTY.
Structure Excavation	Cu. Yd.	327.2
Pipe Underdrains for Structures 4"	Foot	205
Concrete Gutter, Type A (Modified)	Foot	173.2
Furnishing Soldier Piles (W Section)	Foot	1377
Geocomposite Wall Drain	Sq. Yd.	185
Drilling & Setting Soldier Piles (In Soil)	Cu. Ft.	7000
Retaining Wall (Special)	Sq. Ft.	2040
Staining Concrete Structures	Sq. Yd.	181

GENERAL NOTES

All exposed corners 90° or sharper shall be filleted with a 3/4" dressed and beveled strip.

Reinforcement Bars shall conform to the requirements of ASTM A706 Gr 60.

Reinforcement bars designated (E) shall be epoxy coated.

Drilling and setting of piles will require drilling into dense sand and weakly cemented sandstone. (See boring logs). Temporary drill casings or drilling slurry may be required to keep holes open prior to placement of concrete. See drilled soldier pile retaining wall special provision. All drilling will be paid as "Drilling & Setting Soldier Piles (In Soil)".

Concrete shall be painted in accordance with special provisions. The color shall be selected by the engineer.

Exposed steel wide flange/pile shall be painted with an inorganic zinc rich primer/acrylic/acrylic paint system for shop and field painting except for portions located more than 4 feet below the finished grade at the front face of the wall. The finished coat shall be only applied to the exposed surfaces of the steel piles after the concrete panels have been installed. The color of the final finish coat shall be approved by the Resident Engineer and Project Engineer. See special provisions for Cleaning and Painting New Metal Structures.

After placement of bottom precast panel, fill must be placed equally on both sides in order to continue construction of wall and place additional panels. Backfill at front face of wall must be at finished grade.

GENERAL NOTES & TOTAL BILL OF MATERIALS

IL. RTE. 2

RETAINING WALL C

STA. 673+17.00 TO STA. 675+22.00

DESIGNED	CTH
CHECKED	DSG
DRAWN	EBS
CHECKED	DFM

 Howard R. Green Company

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	742	37 R-3	OGLE	345	174
		SN 071-7001	CONTRACT NO. 84788		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					