

GENERAL NOTES

1. The Contractor shall drive 2 test piles, as specified, in permanent locations as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60. See Special Provisions.
4. Welded Wire Fabric shall conform to the requirements of AASHTO M-55.
5. Reinforcement bar bending dimensions are out to out.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Do not scale dimensions for construction.
8. No construction joints except those shown in the plans will be allowed unless ordered by the Engineer.
9. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications (4th edition) with 2008 and 2009 Interims
 Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Adopted January 1, 2007

LOADING

Live Load: HL-93
 Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Bedrock Acceleration Coefficient (A) = 0.04
 Site Coefficient (S) = 1.0

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DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi (Substructure, Approach Slabs and Anchor Slabs)
 $f'_c = 5,000$ psi (Concrete Overlay)
 $f_y = 60,000$ psi (Reinf.)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi (1/2" ϕ strands)
 $f_{pbt} = 201,960$ psi (1/2" ϕ strands)

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment, (Special)	Cu. Yd.	49
Stone Riprap, Class A4	Sq. Yd.	347
Filter Fabric	Sq. Yd.	347
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	595
Channel Excavation	Cu. Yd.	1,011
Concrete Wearing Surface, 5"	Sq. Yd.	283
Concrete Superstructures	Cu. Yd.	307.5
Concrete Structures	Cu. Yd.	50.2
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2,542
Reinforcement Bars, Epoxy Coated	Pound	43,510
Bar Splicers	Each	64
Steel Railing, Type SM	Foot	661
Furnishing Metal Shell Piles 12" x 0.179"	Foot	910
Driving Piles	Foot	910
Test Pile Metal Shell	Each	2
Pile Shoes	Each	16
Geocomposite Wall Drain	Sq. Yd.	38
Pipe Underdrains for Structures, 4"	Foot	93
Concrete Headwalls for Pipe Drains	Each	2
Name Plates	Each	1
Permanent Survey Markers, Type 1	Each	1
Protective Coat	Sq. Yd.	495
Bridge Deck Grooving	Sq. Yd.	465
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,527

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 PLOT SCALE = #SCALE# PLOT DATE = 10-25-2010
 TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)
 BILL OF MATERIAL & GENERAL NOTES
 SCALE: N.T.S.
 F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. N/A 03-07118-00-BR WILL 43 17
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 63156

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