

REFERENCE STANDARDS

Illinois Department of Transportation (IDOT)
A) Standard Specifications for Road and Bridge Construction
(Adopted January 1, 2007)
B) Supplemental Specifications and Recurring Special Provisions

(Adopted January 1, 2011)

LOADS USED FOR ABUTMENT DESIGN

COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

BRIDGE REACTIONS + DOWNWARD LOAD - UPWARD LOAD P (LBS) H (LBS) L (LBS) DEAD LOAD 9,875 23,800 UNIFORM LIVE LOAD VEHICLE LOAD 5,000 - 9,100 WIND UPLIFT 20 PSF ± 1,580 7,460

Loads from Bridge Manufacturer are Service loads, and shall be multiplied by appropriate load factors as per design code.

SOUTH ABUTMENT

GENERAL PLAN

GENERAL NOTES

- 1. It shall be the Contractor's responsibility to verify all dimensions and conditions existing in the field prior to construction and ordering of
- 2. Any reference to standards in the plans or special provisions shall be interpreted to be the latest standard specifications of the Department listed in the plans with the latest revision numbers.
- 3. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
- 4. Reinforcement bars designated (E) shall be epoxy coated.
- 5. See sheet S2 of S3 for section thru abutment along with wingwall details.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinforcement) fy = 50,000 psi (M270 Gr 50 Steel Piles)

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications



EXP 11.30.12 DATE 7.18.11

Sheets S1 thru S3

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL
	50300225	Concrete Structures	Cu. Yd.	13.9
	50300280	Concrete Encasement	Cu. Yd.	2.1
*	50800205	Reinforcement Bars, Epoxy Coated	Pound	2520
	51201400	Furnishing Steel Piles HP10x42	Foot	90
	51202305	Driving Piles	Foot	90
	51203400	Test Pile Steel HP10x42	Each	2
	51204650	Pile Shoes	Each	6

* Specialty Items

						TOTAL CUEST
	DESIGNED - SLV	REVISED -	GREENWAYS TRAIL PEDESTRIAN BRIDGE		SECTION	LOCATION SHEETS NO.
	CHECKED - WHE	REVISED -			08-00058-00-BT LBU N	MANTENO, IL 15 12
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	DRAWN - SLV	REVISED -			JOB NUMBER - 439449	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	CHECKED - WHE	REVISED -		SHEET NO. S1 OF S3 SHEETS		