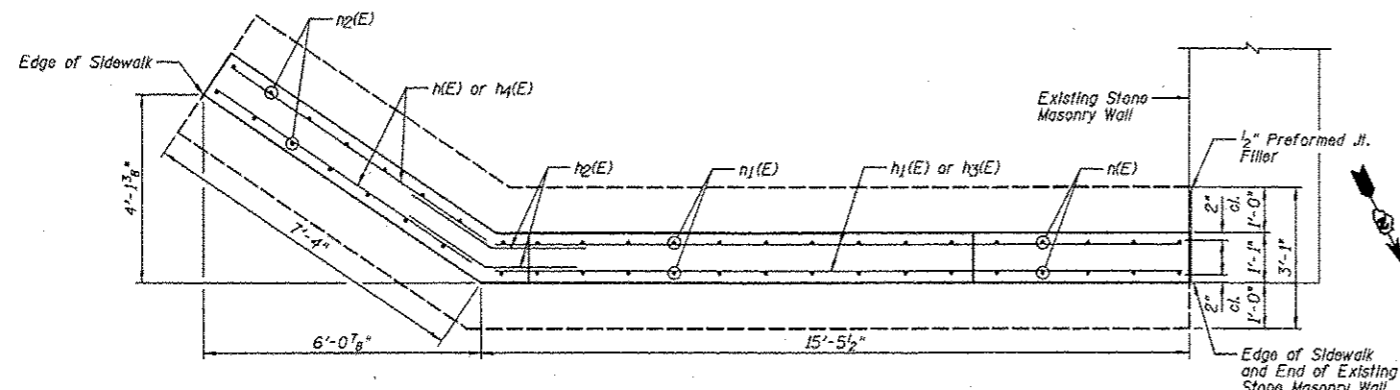
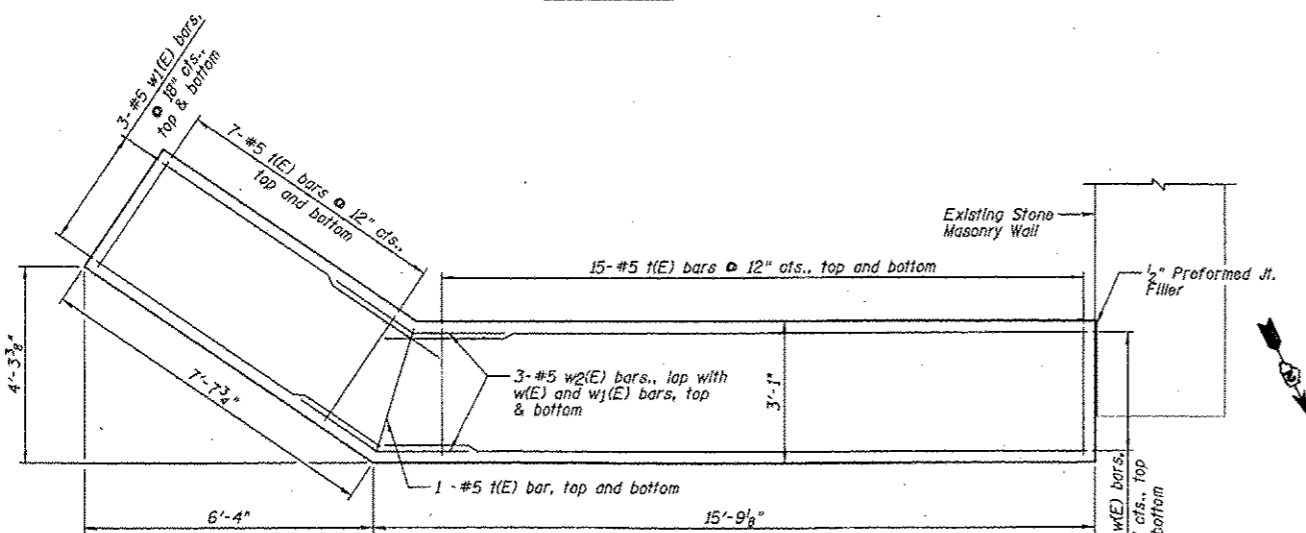


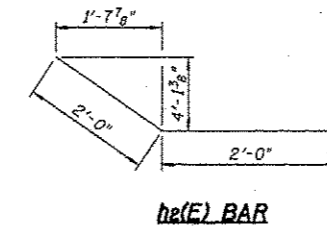
ELEVATION
(Looking South)



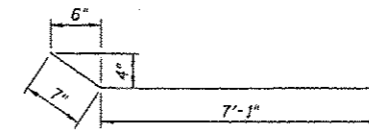
WALL PLAN



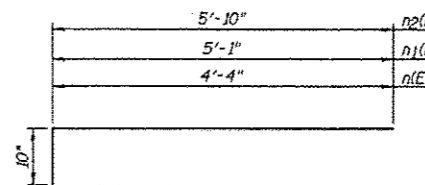
FOOTING PLAN



h2(E) BAR



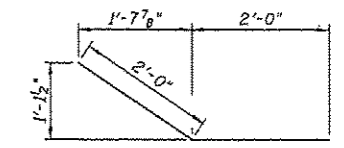
h4(E) BAR



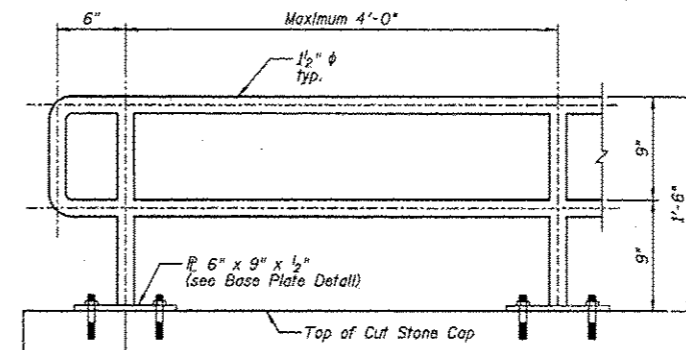
n(E), n1(E) and n2(E) BARS

BILL OF MATERIAL

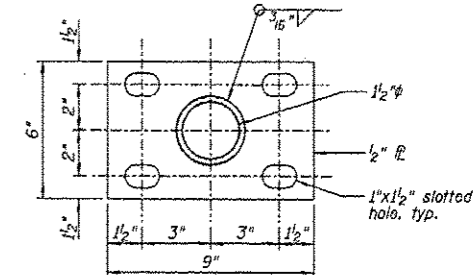
Bar	No.	Size	Length	Shape
d(E)	21	#6	1'-0"	
h(E)	10	#5	7'-0"	
h1(E)	8	#5	15'-0"	
h2(E)	10	#5	4'-0"	
h3(E)	2	#5	9'-4"	
h4(E)	2	#5	8'-0"	
n(E)	10	#5	5'-2"	
n1(E)	20	#5	5'-11"	
n2(E)	18	#5	6'-8"	
w(E)	46	#5	2'-9"	
w1(E)	6	#5	15'-7"	
w2(E)	6	#5	7'-3"	
w3(E)	6	#5	4'-0"	
Item				
Unit				
Quantity				
Porous Granular Embankment		Cu Yd	5	
Concrete Structures		Cu Yd	7.3	
Reinforcement Bars, Epoxy Coated		Pound	910	
Pipe Handrail		Foot	23	
Cut Stone Cap		Sq Ft	23	



w2(E) BAR



PIPE HANDRAIL



BASE PLATE DETAIL



Mark S. Wylie Date 1/11/13
 MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-005002
 Exp. Date 11/30/14

NOTES:

- 1.) E.F. denotes Each Face.
- 2.) Calculated maximum soil pressure = 1,200 psf.
- 3.) All posts, railing, splices, anchor devices, and bent plates shall be painted using the Shop and Field Applied Paint System or the Shop Applied Paint System, according to Section 506 of the Standard Specifications. Color will be chosen by the Grant Home State Historic Site Manager.
- 4.) Drill and epoxy grout d(E) bars and Pipe Handrail Base Plate Anchors in appropriate drilled holes according to Section 5B4 of the Standard Specifications. Space the d(E) bars as shown or as necessary to install a minimum of one d(E) bar per capstone, along the center line of the wall. The type of epoxy grout shall be approved by the Engineer.
- 5.) The selection of the Cut Stone Caps from the existing retaining wall and the arrangement of the Cut Stone Caps on the proposed retaining wall shall be approved by the Engineer. The Cut Stone Caps shall be of a uniform height, preferably ±1'-0". If a different height is approved, the Pipe Handrail height shall be adjusted accordingly.
- 6.) Preformed Joint Filler shall meet the requirements of Section 1051 of the Standard Specifications.



USER NAME - #USER#	DESIGNED - JCZ	REVISED -
PLOT SCALE - #SCALE#	DRAWN - JWK	REVISED -
PLOT DATE - #DATE#	CHECKED - MSW	REVISED -
	DATE - 01-11-13	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		JO DAVIESS	7	7
CONTRACT NO. 46260				
ILLINOIS FED. AID PROJECT				