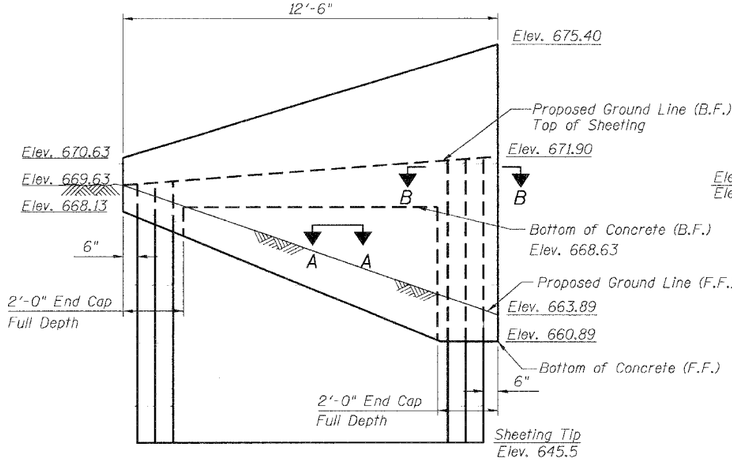
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A.	*	COOK	27	18
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

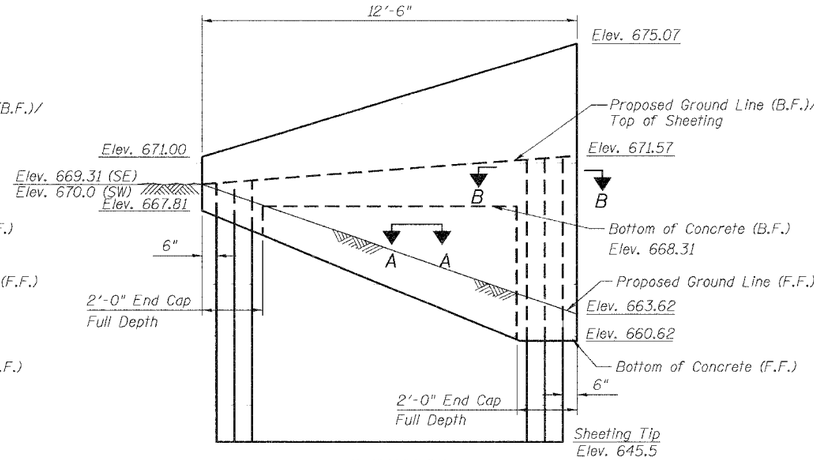
SHEET NO. 83
12 SHEETS

* 02-00048-00-BR * 83779



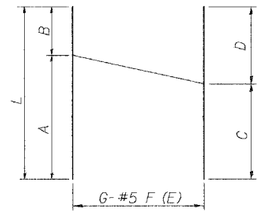
ELEVATION

(Northeast Wingwall shown, Northwest Wingwall opposite hand)



ELEVATION

(Southwest Wingwall shown, Southeast Wingwall opposite hand)



	F	L	A	B	C	D	G
FF	h_{104}	13'-7"	11'-2"	2'-5"	8'-3"	5'-4"	3
FF	h_{106}	11'-4"	10'-4"	1'-0"	7'-2"	4'-2"	2
BF	h_{106}	11'-4"	10'-4"	1'-0"	7'-2"	4'-2"	2
FF	v_{105}	17'-11"	12'-6"	5'-5"	9'-5"	8'-5"	4
BF	v_{106}	8'-5"	5'-4"	3'-1"	4'-4"	4'-1"	4

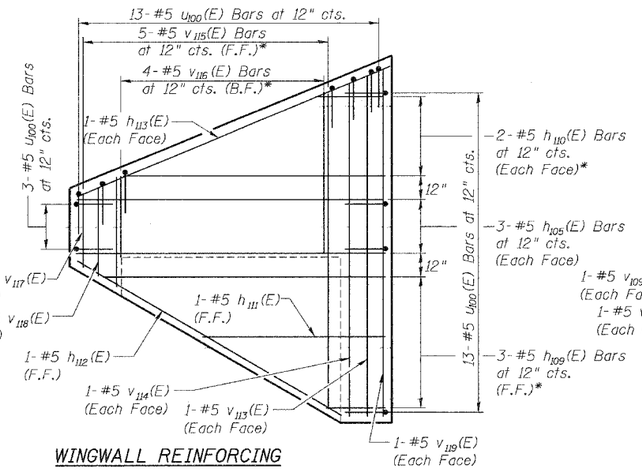
CUTTING DIAGRAM

South Wingwalls

Order bars full length. Cut as shown and place according to length required for shape of wall.

BILL OF MATERIAL

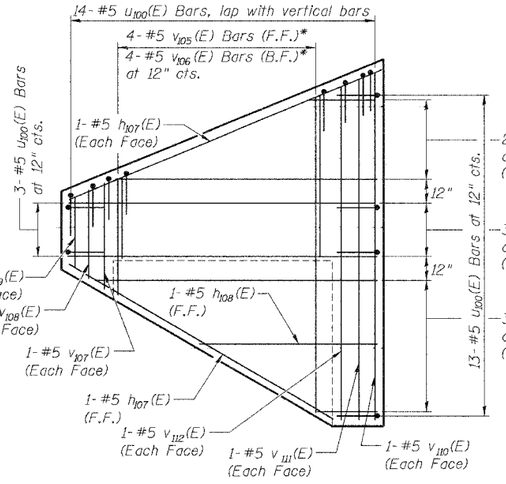
Bar	No.	Size	Length	Shape
a100 (E)	254	# 5	20' - 10"	
a101 (E)	208	# 5	12' - 4"	
a102 (E)	208	# 4	5' - 0"	
d100 (E)	42	# 4	4' - 6"	
d101 (E)	82	# 6	4' - 9"	
d102 (E)	42	# 5	4' - 4"	
h100 (E)	200	# 4	24' - 7"	
h101 (E)	232	# 5	24' - 10"	
h102 (E)	34	# 5	21' - 6"	
h103 (E)	8	# 5	2' - 0"	
h104 (E)	6	# 5	13' - 7"	
h105 (E)	24	# 5	12' - 0"	
h106 (E)	8	# 5	11' - 4"	
h107 (E)	6	# 5	12' - 7"	
h108 (E)	2	# 5	6' - 9"	
h109 (E)	6	# 5	12' - 8"	
h110 (E)	8	# 5	11' - 3"	
h111 (E)	2	# 5	6' - 4"	
h112 (E)	2	# 5	12' - 9"	
h113 (E)	4	# 5	13' - 0"	
u100 (E)	118	# 5	4' - 10"	
v100 (E)	508	# 4	6' - 3"	
v101 (E)	12	# 4	10' - 7"	
v102 (E)	12	# 4	5' - 9"	
v103 (E)	82	# 6	5' - 4"	
v104 (E)	42	# 5	5' - 4"	
v105 (E)	8	# 5	17' - 11"	
v106 (E)	8	# 5	8' - 5"	
v107 (E)	4	# 5	4' - 5"	
v108 (E)	4	# 5	3' - 8"	
v109 (E)	4	# 5	2' - 10"	
v110 (E)	4	# 5	13' - 8"	
v111 (E)	4	# 5	13' - 5"	
v112 (E)	4	# 5	13' - 2"	
v113 (E)	4	# 5	13' - 3"	
v114 (E)	4	# 5	12' - 11"	
v115 (E)	10	# 5	14' - 0"	
v116 (E)	8	# 5	7' - 4"	
v117 (E)	2	# 5	2' - 2"	
v118 (E)	2	# 5	3' - 3"	
v119 (E)	4	# 5	13' - 7"	
Concrete Box Culverts			Cu. Yd.	197.5
Reinforcement Bars, Epoxy Coated			Pound	25,260
Permanent Steel Sheet Piling			Sq. Ft.	1208
Form Liner Textured Surface			Sq. Ft.	157



WINGWALL REINFORCING

(Northeast Wingwall shown, Northwest Wingwall opposite hand)

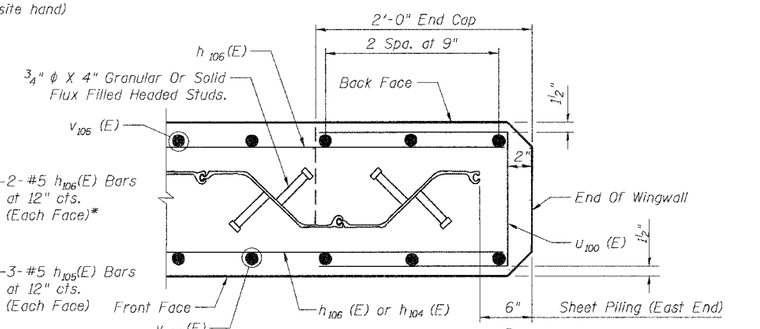
* See Field Cutting Diagram



WINGWALL REINFORCING

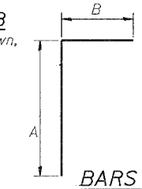
(Southwest Wingwall shown, Southeast Wingwall opposite hand)

* See Field Cutting Diagram



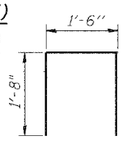
SECTION B-B

South Wingwall shown, Others similar.

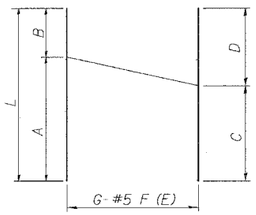


BAR	A	B
d_{100}(E)	2'-9"	1'-9"
d_{101}(E)	3'-5"	1'-4"
d_{102}(E)	3'-0"	1'-4"

BARS d_{100}(E) thru d_{102}(E)



BAR u_{100}(E)

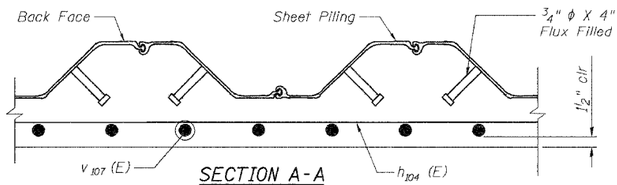


	F	L	A	B	C	D	G
FF	h_{109}	12'-8"	10'-8"	2'-0"	7'-9"	4'-11"	3
FF	h_{110}	11'-3"	9'-7"	1'-8"	6'-11"	4'-4"	2
BF	h_{110}	11'-3"	9'-7"	1'-8"	6'-11"	4'-4"	2
FF	v_{115}	14'-0"	11'-10"	2'-2"	7'-6"	6'-6"	5
BF	v_{116}	7'-4"	5'-0"	2'-4"	5'-10"	3'-6"	4

Order bars full length. Cut as shown and place according to length required for shape of wall.

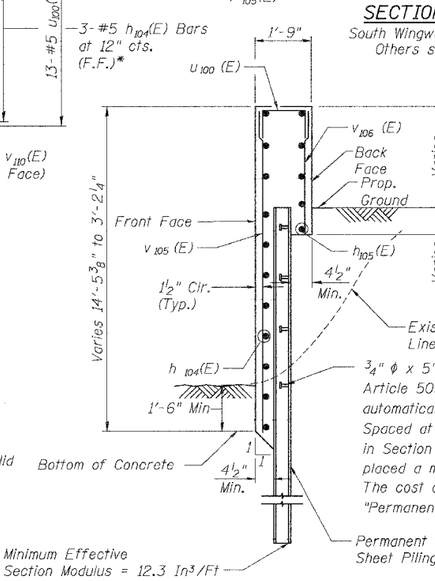
CUTTING DIAGRAM

North Wingwalls



SECTION A-A

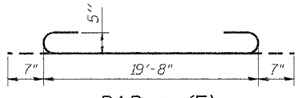
South Wingwall shown, Others similar.



TYPICAL SECTION

South Wingwall shown, Others similar.

$\frac{3}{4}$" ϕ x 5" granular or solid filled headed studs, conforming to Article 505.08 (m) of the Standard Specifications, shall be automatically end welded , in the field, to the sheet piling. Spaced at 12" cts. vertically and spaced horizontally as shown in Section A-A and Section B-B. Upper most studs shall be placed a minimum of 6" from the top of the sheet piling. The cost of the studs shall be included in the cost of "Permanent Steel Sheet Piling."



BAR d_{100}(E)

Notes: Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

DESIGNED	JRS
CHECKED	RLP
DRAWN	DMG
CHECKED	JRS

WINGWALL DETAILS

ARTHUR AVENUE OVER WILLOW CREEK
SECTION 02-00048-00-BR
COOK COUNTY
STATION 58+00.37

TRANSYSTEMS CORPORATION
1051 PERIMETER DRIVE, SUITE 1025
SCHAUMBURG, IL 60173-5058
TEL (847) 605-9600
FAX (847) 605-9610

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