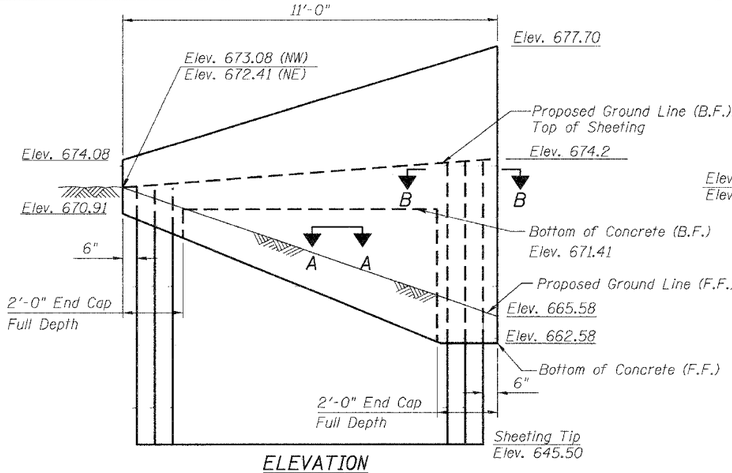
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A.	*	COOK	27	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

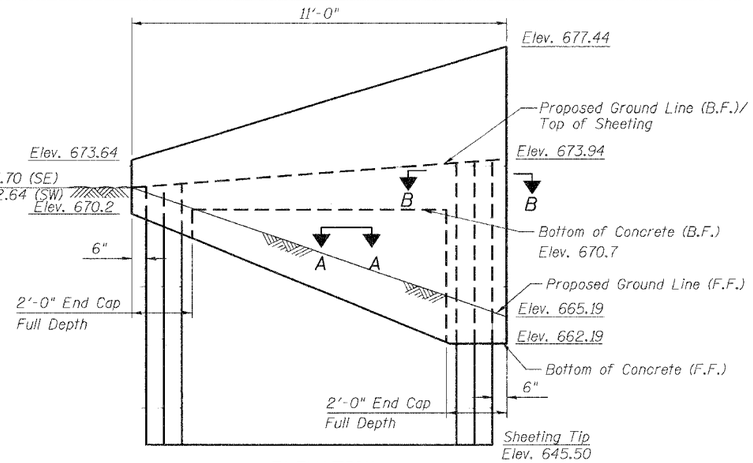
SHEET NO. 87
12 SHEETS

* 02-00048-00-BR #3379



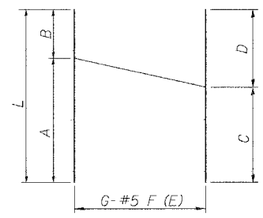
ELEVATION

(Northeast Wingwall shown, Northwest Wingwall opposite hand)



ELEVATION

(Southwest Wingwall shown, Southeast Wingwall opposite hand)

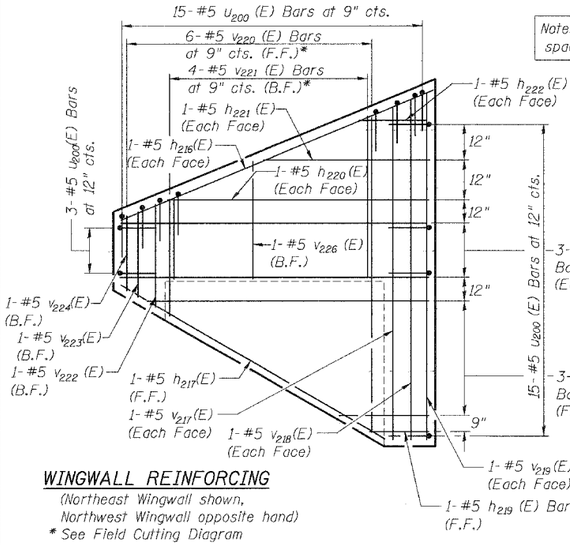


	F	L	A	B	C	D	G
FF	h_{207}	13'-3"	10'-0"	3'-3"	7'-9"	5'-6"	3
FF	v_{212}	16'-6"	13'-4"	3'-2"	8'-9"	7'-9"	6
BF	v_{213}	8'-7"	5'-4"	3'-3"	4'-6"	4'-1"	4

CUTTING DIAGRAM

South Wingwalls

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

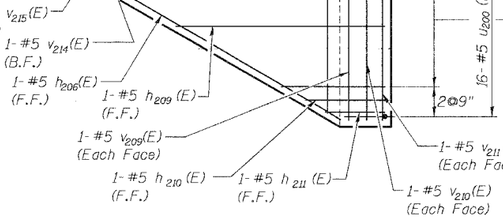


Note: Horizontal Bars spaced at 12" u.n.o.

WINGWALL REINFORCING

(Northeast Wingwall shown, Northwest Wingwall opposite hand)

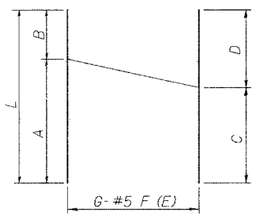
* See Field Cutting Diagram



WINGWALL REINFORCING

(Southwest Wingwall shown, Southeast Wingwall opposite hand)

* See Field Cutting Diagram

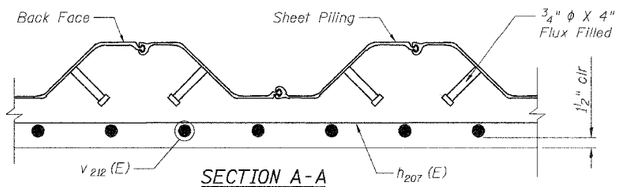


	F	L	A	B	C	D	G
FF	v_{220}	16'-1"	13'-3"	2'-10"	8'-6"	7'-7"	6
BF	v_{221}	7'-11"	4'-11"	3'-0"	4'-2"	3'-9"	4
FF	h_{218}	12'-4"	9'-11"	2'-5"	6'-9"	5'-7"	4

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

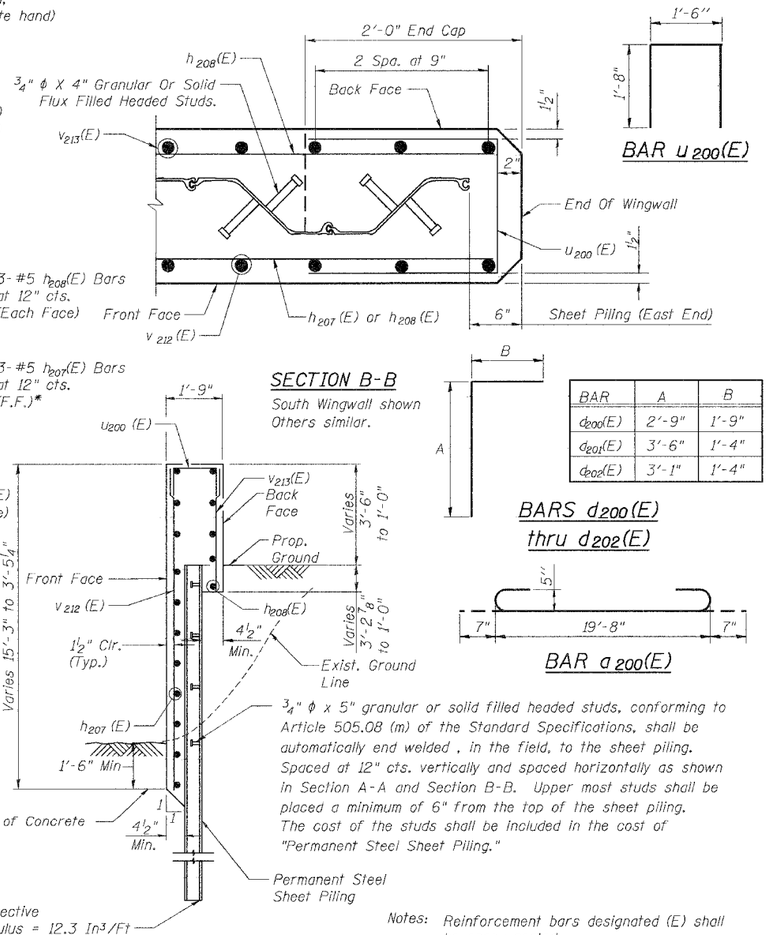
CUTTING DIAGRAM

North Wingwalls



SECTION A-A

South Wingwall shown Others similar.



SECTION B-B

South Wingwall shown Others similar.

TYPICAL SECTION

South Wingwall shown Others similar.

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."

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.

BAR u_{200}(E)

BAR	A	B
d_{200}(E)	2'-9"	1'-9"
d_{201}(E)	3'-6"	1'-4"
d_{202}(E)	3'-1"	1'-4"

BARS d_{200}(E) thru d_{202}(E)

BAR a_{200}(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a200 (E)	314	# 5	20' - 10"	
a201 (E)	258	# 5	12' - 4"	
a202 (E)	260	# 4	5' - 0"	
d200 (E)	42	# 4	4' - 6"	
d201 (E)	82	# 6	4' - 10"	
d202 (E)	42	# 5	4' - 5"	
h200 (E)	200	# 4	30' - 2"	
h201 (E)	232	# 5	30' - 5"	
h202 (E)	38	# 5	21' - 6"	
h203 (E)	8	# 5	3' - 6"	
h205 (E)	4	# 5	11' - 1"	
h206 (E)	2	# 5	11' - 11"	
h207 (E)	6	# 5	13' - 3"	
h208 (E)	24	# 5	10' - 6"	
h209 (E)	2	# 5	6' - 8"	
h210 (E)	2	# 5	2' - 5"	
h211 (E)	2	# 5	1' - 7"	
h212 (E)	4	# 5	1' - 4"	
h213 (E)	4	# 5	3' - 6"	
h214 (E)	4	# 5	6' - 4"	
h215 (E)	4	# 5	9' - 3"	
h216 (E)	4	# 5	11' - 1"	
h217 (E)	2	# 5	12' - 1"	
h218 (E)	8	# 5	12' - 4"	
h219 (E)	2	# 5	1' - 8"	
h220 (E)	4	# 5	8' - 8"	
h221 (E)	4	# 5	5' - 8"	
h222 (E)	4	# 5	2' - 7"	
u200 (E)	134	# 5	4' - 10"	
v200 (E)	628	# 4	6' - 3"	
v201 (E)	12	# 4	10' - 4"	
v202 (E)	12	# 4	5' - 10"	
v203 (E)	82	# 6	6' - 1"	
v204 (E)	42	# 5	6' - 1"	
v209 (E)	4	# 5	14' - 2"	
v210 (E)	4	# 5	14' - 5"	
v211 (E)	4	# 5	14' - 8"	
v212 (E)	12	# 5	16' - 6"	
v213 (E)	8	# 5	8' - 7"	
v214 (E)	2	# 5	5' - 0"	
v215 (E)	2	# 5	4' - 1"	
v216 (E)	2	# 5	3' - 2"	
v217 (E)	4	# 5	14' - 0"	
v218 (E)	4	# 5	14' - 3"	
v219 (E)	4	# 5	14' - 6"	
v220 (E)	12	# 5	16' - 1"	
v221 (E)	8	# 5	7' - 11"	
v222 (E)	2	# 5	4' - 9"	
v223 (E)	2	# 5	3' - 10"	
v224 (E)	2	# 5	2' - 10"	
v225 (E)	2	# 5	4' - 4"	
v226 (E)	2	# 5	3' - 11"	
Concrete Box Culverts		Cu. Yd.	234.2	
Reinforcement Bars, Epoxy Coated		Pound	30,390	
Permanent Steel Sheet Piling		Sq. Ft.	1143	
Form Liner Textured Surface		Sq. Ft.	157	

DESIGNED	JRS
CHECKED	RLP
DRAWN	DMG
CHECKED	JRS

WINGWALL DETAILS

PRATT BOULEVARD OVER WILLOW CREEK
SECTION 02-00048-00-BR
COOK COUNTY
STATION 38+01.07

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

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