

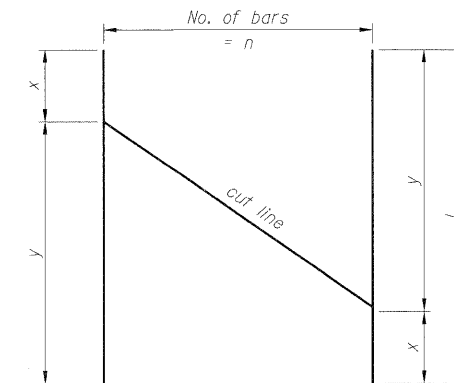
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOLDIER PILE DATA

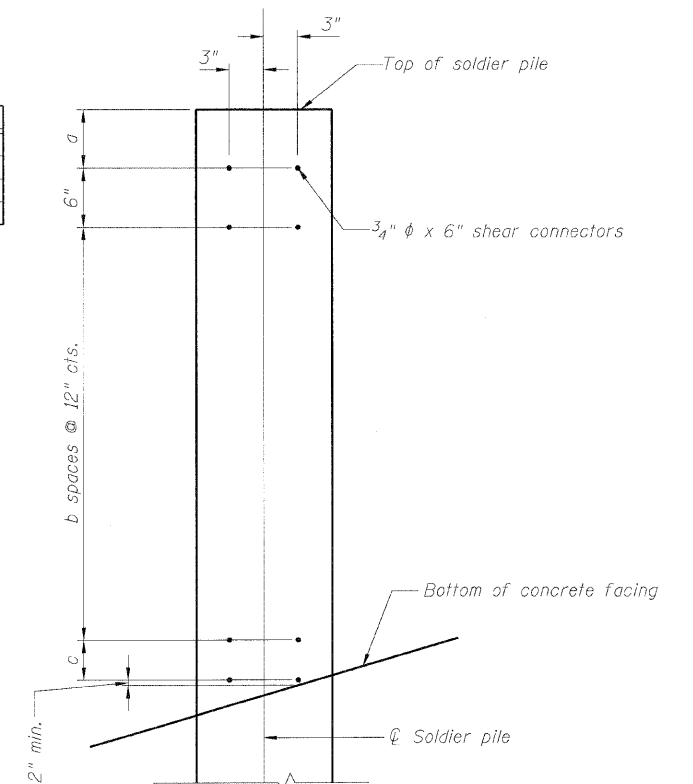
Panel	Soldier Pile Designations	Top of soldier Pile Elevation	Bottom of soldier Pile Elevation	Top of concrete encasement	Top of CLSM	Stud Shearconnectors			
						a	b	c	No. per pile
A	A ₁ W24x117	463.95	428.23	462.24	463.20	3"	1	0"	6
	A ₂ W24x117			459.44			2	3"	10
	A ₃ W24x117			455.44			7	3"	20
	A ₄ W24x117			455.10			7	11"	20
B	B ₁ W24x117	463.13	427.41	455.48	462.38		6	9"	18
	B ₂ W24x117			455.73			5	11"	16
	B ₃ W24x117			456.38			5	9"	16
	B ₄ W24x117			457.02			4	11"	14
	B ₅ W24x117			457.67			4	5"	14
	B ₆ W24x117			458.31			3	9"	12
C	C ₁ W24x117			459.02			3	0"	10
	C ₂ W24x117			459.98			2	0"	8
	C ₃ W24x117			460.57			1	7"	8
	C ₄ W24x117			461.34			1	9"	8
	C ₅ W24x117			462.12			0	3"	6

BAR DIMENSIONS

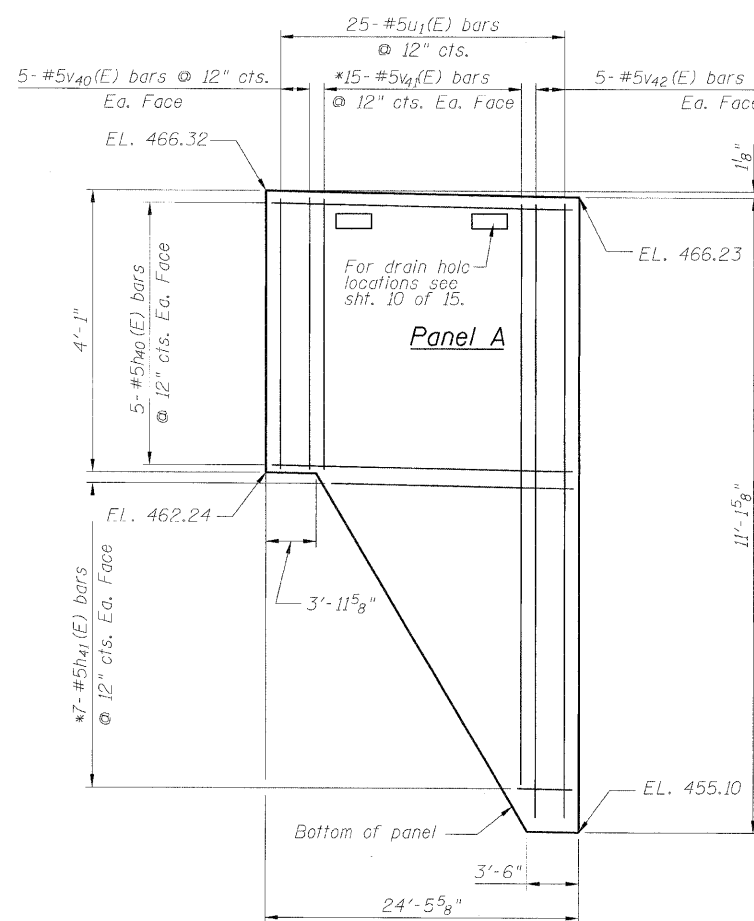
Bar	n	x	y	l
v ₄₁ (E)	15	4'-0"	10'-6"	14'-6"
v ₄₄ (E)	51	3'-2"	9'-8"	12'-10"
h ₄₁ (E)	7	3'-5"	20'-7"	24'-0"
h ₄₄ (E)	8	4'-0"	18'-0"	22'-0"



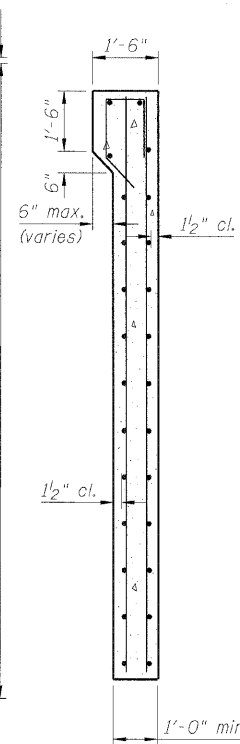
BAR CUTTING DIAGRAM



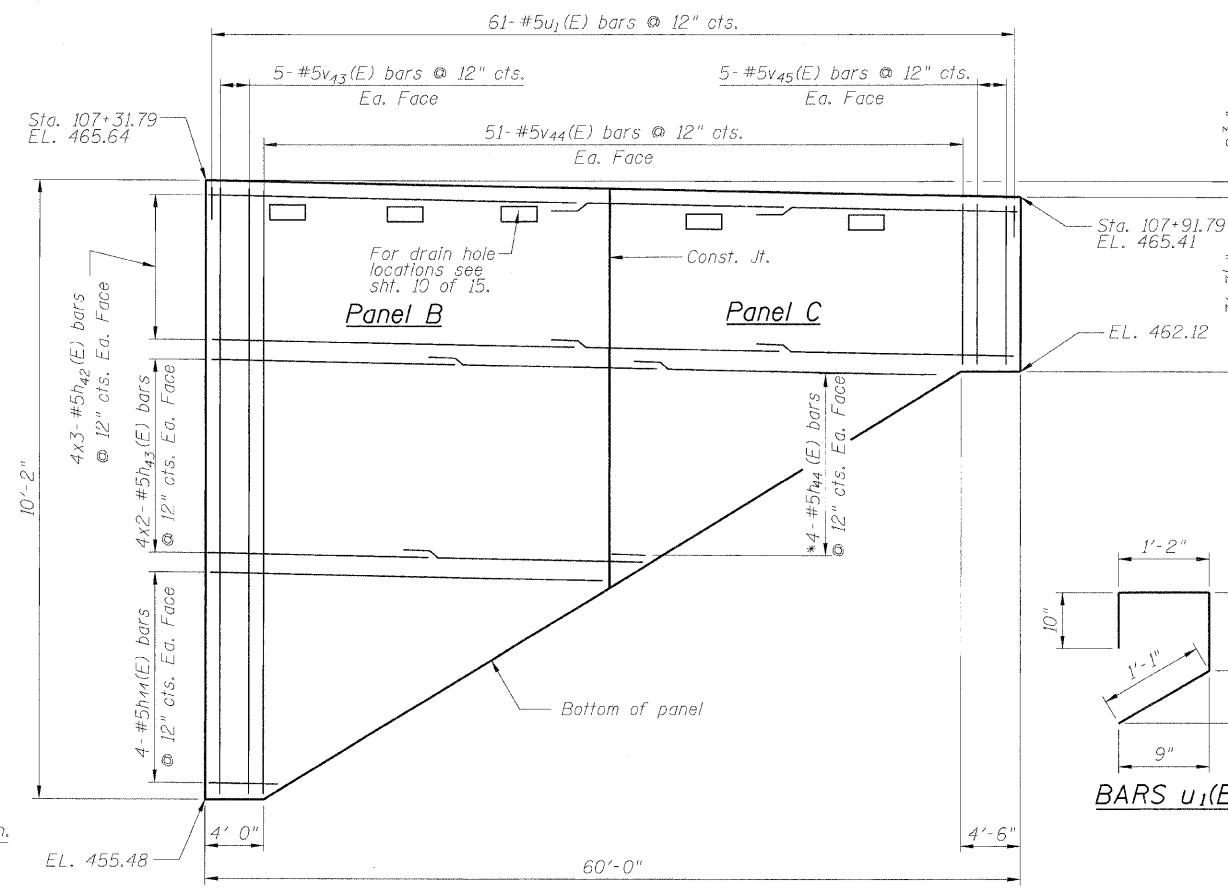
SHEAR STUD SPACING DETAIL



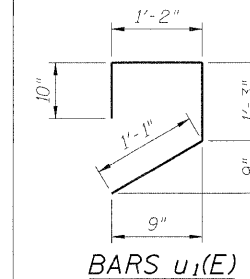
ELEVATION



SECTION THRU PANEL



SECTION THRU WALL



BARS u₁(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₄₀ (E)	10	#5	24'-2"	—
h ₄₁ (E)	7	#5	24'-0"	—
h ₄₂ (E)	24	#5	21'-0"	—
h ₄₃ (E)	16	#5	20'-6"	—
h ₄₄ (E)	8	#5	22'-0"	—
v ₄₀ (E)	10	#5	3'-9"	—
v ₄₁ (E)	15	#5	14'-6"	—
v ₄₂ (E)	10	#5	10'-9"	—
v ₄₃ (E)	10	#5	9'-10"	—
v ₄₄ (E)	51	#5	12'-10"	—
v ₄₅ (E)	10	#5	3'-0"	—
u ₁ (E)	86	#5	4'-4"	U
Concrete Structures			Cu. Yd.	22.8
Reinforcement Bars (Epoxy coated)			Pound	3070

SOLDIER PILE WALL DATA
STRUCTURE NO: 082-2044

SHEET NO. 12	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				15 SHEETS	600
STRUCTURE NO: 082-2044			CONTRACT NO. 76830		
FED. ROAD DIST. NO. _		ILLINOIS		FED. AID PROJECT	

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

Min. bar laps
(unless noted otherwise)
5 bar = 1'-8"

* Order bars v₄₁(E), v₄₄(E) & h₄₄(E) bars full length cut as shown and use remainder in the opposite face.

MID-AMERICA ENGINEERING SERVICES