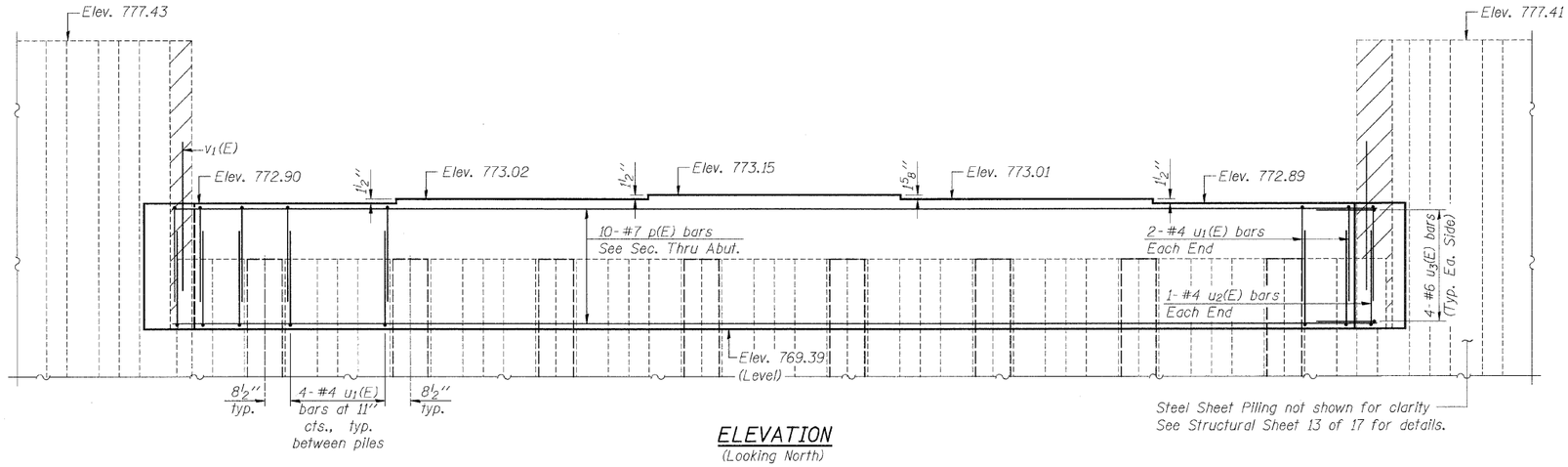
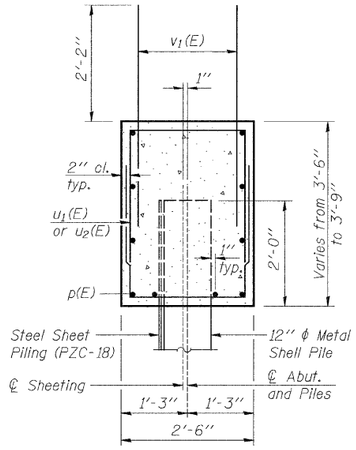
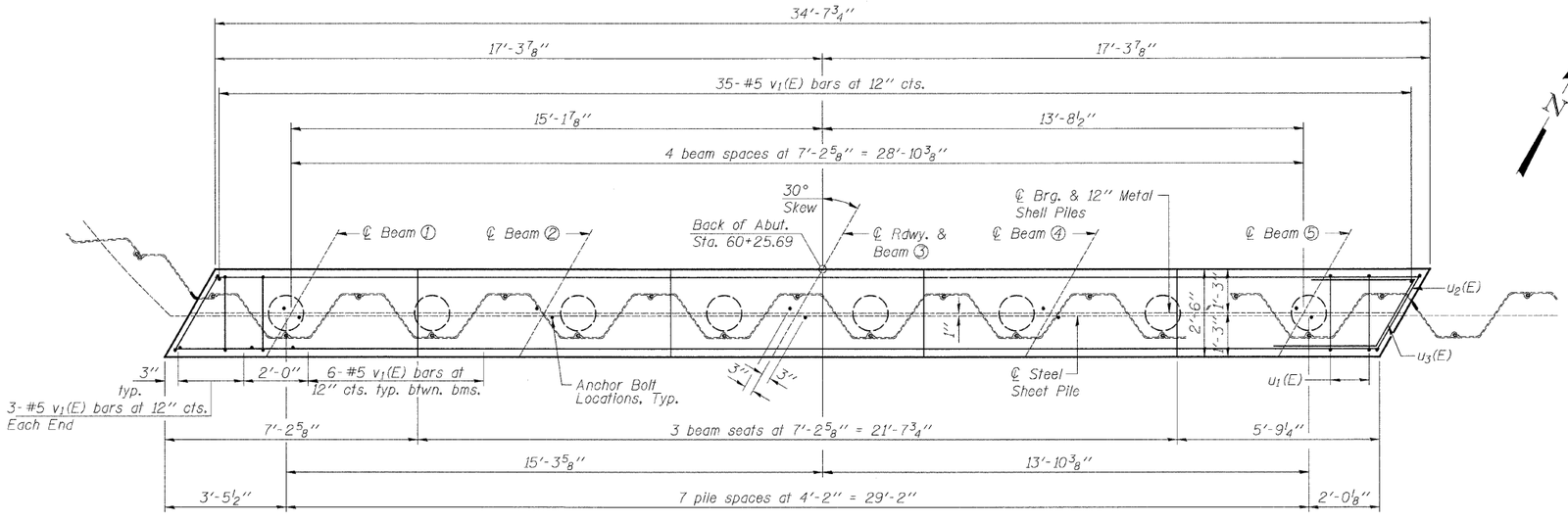


ELEVATION
(Looking North)

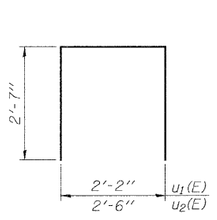


SEC. THRU ABUT.

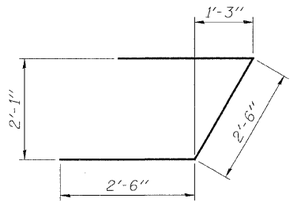


PILE DATA

Type: Metal Shell 12" ϕ x 0.250" walls
Nominal Required Bearing: 243 kips
Factored Resistance Available: 134 kips
Est. Length: 45'
No. Production Piles: 7
No. Test Piles: 1



BARS $u_1(E)$ & $u_2(E)$



BAR $u_3(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p(E)	10	#7	34'-3"	
$u_1(E)$	64	#4	7'-4"	
$u_2(E)$	4	#4	7'-8"	
$u_3(E)$	8	#6	7'-6"	
$v_1(E)$	65	#5	4'-4"	
Concrete Structures		Cu. Yd.	11.1	
Reinforcement Bars, Epoxy Coated		Pound	1,420	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	315	
Driving Piles		Foot	315	
Test Pile Metal Shells		Each	1	
* Geocomposite Wall Drain		Sq. Yd.	29	
* Porous Granular Embankment, Special		Ton	304	

NOTES:

*See Structural Sheet 2 of 17 for drainage details.

All exposed edges shall have standard $\frac{3}{4}$" chamfers, except as noted.

Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap.

Contractor shall burn hole in sheeting for u(E), $u_1(E)$ & $u_2(E)$ bar placement. Cost Incidental to Reinforcement Bars, Epoxy Coated.

For pile details, see Structural Sheet 16 of 17.

For hatched area details, see Structural Sheet 13 of 17.

FILE NAME = S:\PROJECTS\2010\1051D10_Bureau_CH11\DESIGN\STRUCTND\Drawings\1051D12Nor-thAbutment.dgn

USER NAME =	DESIGNED - M. C. WAGNER	REVISED -	**BUREAU COUNTY**	**NORTH ABUTMENT DETAILS**	
	CHECKED - B. K. CONVERSE	REVISED -	**F.A.S. 184 (C.H. 11) OVER BIG BUREAU CREEK**	**STRUCTURE NO. 006-3032**	
PLOT SCALE =	DRAWN - F. D. LACHAT	REVISED -	**STATION 59+75**	STRUCTURAL SHEET NO. 12 OF 17 SHEETS	
PLOT DATE =	CHECKED - M. A. CACKLEY	REVISED -			

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	08-00211-00-BR	BUREAU	31	21
	WHA* 1051D10	CONTRACT NO. 87462		
	ILLINOIS FED. AID PROJECT BRS-0184(107)			