

**BENDING DIMENSIONS**

BAR	A	B	C	D
h4(E)	11'-5"	3'-9"	1'-0 5/8"	3'-7 1/4"
h6(E)	1'-10"	7'-0"		
h7(E)	7'-0"	11'-10"		
h9(E)	2'-6"	8'-9"		
h12(E)	1'-4"	8'-8"		
h16(E)	10"	12'-0"		
h24(E)	1'-2"	7'-4"		
h28(E)	15'-2"	2'-0"	0'-9"	1'-10 1/4"
h29(E)	1'-2"	11'-10"		
h33(E)	1'-2"	14'-6"		
h34(E)	11'-10"	10"	0'-7"	
h36(E)	8'-8"	2'-5"	0'-8 1/2"	2'-3 7/8"
n1(E)	0'-10"	5'-2"		
n2(E)	1'-2"	8'-9"		
n4(E)	1'-10"	14'-8"		
n5(E)	0'-10"	6'-2"		
n6(E)	1'-10"	18'-2"		
n7(E)	1'-10"	17'-2"		
n8(E)	1'-10"	12'-3"		
n9(E)	1'-7"	12'-3"		
n21(E)	18'-3"	1'-5"	1'-1 1/4"	
n22(E)	19'-3"	1'-5"	1'-1 1/4"	
n23(E)	22'-9"	1'-5"	1'-1 1/4"	
n24(E)	18'-3"	1'-7"	1'-2 3/4"	
n30(E)	1'-7"	8'-9"		
n42(E)	1'-10"	13'-8"		
n1(E)	5'-5"	11'-6"	10'-7 3/4"	4'-4 1/2"
n2(E)	5'-5"	11'-4"	10'-7 5/8"	3'-11"
n3(E)	5'-5"	11'-3"	10'-8 1/4"	3'-6"
n4(E)	5'-5"	11'-1"	10'-7 3/4"	3'-1"
n5(E)	5'-5"	11'-0"	10'-8"	2'-8"
n6(E)	5'-5"	10'-11"	10'-8 1/4"	2'-3"
n7(E)	5'-5"	10'-10"	10'-8 1/2"	1'-10"
n8(E)	5'-5"	10'-9"	10'-7 7/8"	1'-5"
n9(E)	5'-5"	10'-9"	10'-8 1/2"	1'-0"
n10(E)	5'-5"	10'-8"	10'-7 3/4"	0'-7"
n11(E)	5'-5"	10'-8"	10'-8"	0'-2"
n14(E)	6'-3"	6'-3"	6'-0"	1'-9"
n18(E)	5'-5"	11'-6"	10'-7 3/4"	4'-4 1/2"
n19(E)	5'-5"	11'-3"	10'-7 5/8"	3'-8"
n20(E)	5'-5"	11'-1"	10'-8"	3'-0"
n21(E)	5'-5"	10'-11"	10'-8"	2'-4"
n22(E)	5'-5"	10'-9"	10'-7 1/2"	1'-8"
n23(E)	5'-5"	10'-9"	10'-8 3/4"	1'-0"
n24(E)	5'-5"	10'-8"	10'-7 7/8"	0'-4"
n26(E)	5'-5"	11'-6"	10'-7 3/4"	4'-4 1/2"
n27(E)	5'-5"	11'-5"	10'-8 3/4"	4'-0"
n28(E)	5'-5"	11'-3"	10'-7 5/8"	3'-8"
n29(E)	5'-5"	11'-2"	10'-7 7/8"	3'-4"
n30(E)	5'-5"	11'-1"	10'-8"	3'-0"
n31(E)	5'-5"	11'-0"	10'-8"	2'-8"
n32(E)	5'-5"	10'-11"	10'-8"	2'-4"
n33(E)	5'-5"	10'-10"	10'-7 3/4"	2'-0"
n34(E)	5'-5"	10'-10"	10'-8 1/2"	1'-8"
n35(E)	5'-5"	10'-9"	10'-8"	1'-4"
n36(E)	5'-5"	10'-9"	10'-8 3/4"	1'-0"
n37(E)	5'-5"	10'-8"	10'-7 3/4"	0'-8"
n38(E)	5'-5"	10'-8"	10'-8"	0'-4"
w2(E)	3'-0"	5'-6"		
w7(E)	3'-8"	16'-3"	15'-7 3/4"	4'-4 7/8"
w8(E)	3'-8"	16'-0"	15'-6 3/4"	3'-8 3/4"
w9(E)	3'-8"	15'-9"	15'-5 1/2"	3'-0 1/2"
w10(E)	3'-8"	15'-6"	15'-3 1/2"	2'-4 1/4"
w11(E)	3'-8"	15'-4"	15'-2 1/2"	1'-8 1/2"
w12(E)	3'-8"	15'-2"	15'-1 1/2"	1'-0"
w13(E)	3'-8"	15'-1"	15'-1"	0'-7"
w17(E)	4'-0"	4'-0"	2'-10"	2'-10"

DESIGNED DRS  
CHECKED JGG  
DRAWN SOI  
CHECKED JGG

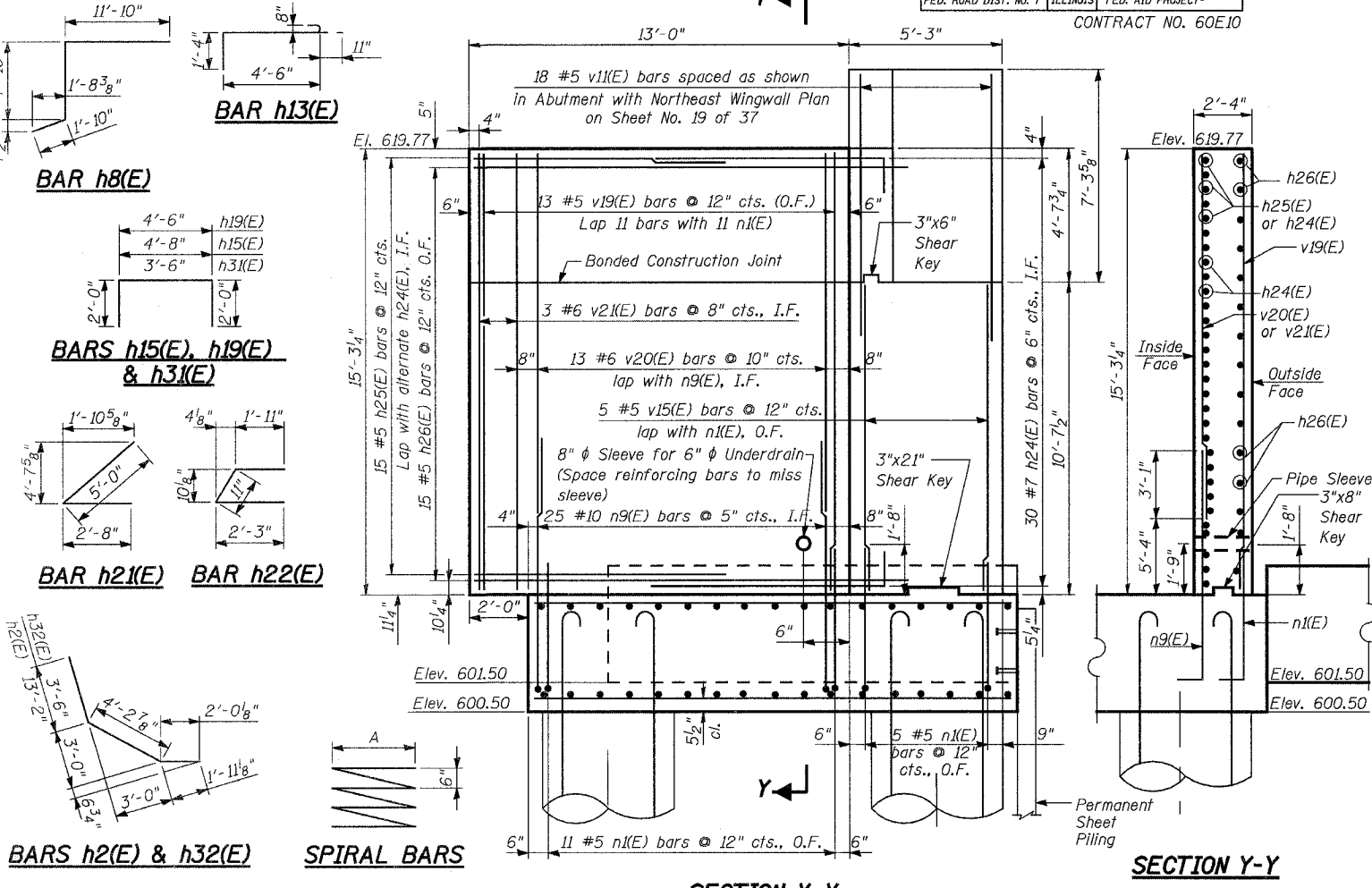
**NORTH ABUTMENT BILL OF MATERIAL**

BAR	NO.	NO. STAGES II & III	SIZE	LENGTH	SHAPE
h1(E)	24		#5	24'-3"	
h2(E)	15		#5	19'-5"	
h3(E)	8		#5	28'-6"	
h4(E)	8		#5	15'-2"	
h5(E)	28		#5	24'-4"	
h6(E)	14		#5	8'-10"	
h7(E)	41	10	#5	18'-10"	
h8(E)	10	5	#5	18'-6"	
h9(E)	5		#5	11'-3"	
h10(E)	5		#5	40'-0"	
h11(E)	19		#5	32'-5"	
h12(E)	14		#8	10'-0"	
h13(E)	7		#8	6'-9"	
h14(E)	16		#5	24'-6"	
h15(E)	86	63	#5	8'-8"	
h16(E)	15		#5	12'-10"	
h17(E)	8		#5	32'-0"	
h18(E)	15		#5	33'-6"	
h19(E)	18		#5	8'-6"	
h20(E)	19		#7	24'-0"	
h21(E)	8		#5	7'-8"	
h22(E)	3		#5	5'-1"	
h23(E)	34		#5	22'-10"	
h24(E)	55	30	#9	8'-6"	
h25(E)	15		#5	9'-3"	
h26(E)	15		#5	14'-9"	
h27(E)	19		#5	10'-0"	
h28(E)	19		#5	17'-2"	
h29(E)	13		#7	13'-0"	
h30(E)	2		#5	26'-8"	
h31(E)	8		#5	7'-6"	
h32(E)	1		#5	9'-9"	
h33(E)	30		#7	15'-8"	
h34(E)	15		#7	12'-8"	
h35(E)	2		#5	2'-3"	
h36(E)	14		#7	11'-1"	
n1(E)	88	74	#5	6'-0"	
n2(E)	34		#8	9'-11"	
n4(E)	32		#11	16'-6"	
n5(E)	16		#5	7'-0"	
n6(E)	36		#10	20'-0"	
n7(E)	63		#10	19'-0"	
n8(E)		31	#10	14'-1"	
n9(E)	28	25	#10	13'-10"	
n21(E)	40		#10	19'-8"	
n22(E)	140		#10	20'-8"	
n23(E)		248	#10	24'-2"	
n24(E)	152		#11	19'-10"	
n30(E)	17		#10	10'-4"	
n42(E)		66	#10	15'-6"	
n1(E)	2		#10	16'-11"	
n2(E)	2		#10	16'-9"	
n3(E)	2		#10	16'-8"	
n4(E)	2		#10	16'-6"	
n5(E)	2		#10	16'-5"	
n6(E)	2		#10	16'-4"	
n7(E)	2		#10	16'-3"	
n8(E)	2		#10	16'-2"	
n9(E)	2		#10	16'-2"	
n10(E)	2		#10	16'-1"	
n11(E)	2		#10	16'-1"	
n12(E)	151		#10	16'-1"	
n13(E)	12		#10	13'-0"	
n14(E)	7		#10	12'-6"	
n15(E)	30		#10	16'-3"	
n16(E)	1		#10	20'-0"	
n17(E)	8		#10	33'-3"	
n18(E)	1	1	#6	16'-11"	
n19(E)	1	1	#6	16'-8"	
n20(E)	1	1	#6	16'-6"	
n21(E)	1	1	#6	16'-4"	
n22(E)	1	1	#6	16'-2"	
n23(E)	1	1	#6	16'-2"	
v1(E)	7		#7	27'-8"	
v2(E)	20		#7	16'-0"	
v3(E)	10		#5	11'-11"	
v4(E)	17		#5	7'-1"	
v5(E)	12		#5	33'-7"	
v6(E)	1		#5	22'-0"	
v7(E)	12		#5	22'-3"	
v8(E)	2		#5	14'-10"	
v9(E)	51		#5	13'-10"	
v11(E)	4	18	#5	9'-2"	
v12(E)	43	31	#5	6'-5"	
v13(E)	3		#6	9'-7"	
v14(E)	47	33	#6	6'-10"	
v15(E)		39	#5	10'-4"	
v17(E)	24		#5	16'-7"	
v18(E)	31		#6	11'-3"	
v19(E)	13		#5	14'-11"	
v20(E)	13		#6	9'-4"	
v21(E)	3		#6	14'-11"	
v22(E)	16		#5	18'-5"	
v23(E)	4		#6	18'-5"	
v24(E)	15		#6	15'-10"	
v30(E)	17		#6	14'-3"	
w1(E)	17		#7	40'-0"	
w2(E)	17		#7	8'-6"	
w3(E)	7		#5	36'-0"	
w4(E)	20		#5	22'-9"	
w5(E)	7		#8	28'-1"	
w6(E)	34		#6	22'-6"	
w7(E)	1		#8	19'-11"	
w8(E)	1		#8	19'-8"	
w9(W)	1		#8	19'-5"	
w10(E)	1		#8	19'-2"	
w11(E)	1		#8	19'-0"	
w12(E)	1		#8	18'-10"	
w13(E)	1		#8	18'-9"	
w16(E)	6		#7	32'-6"	
w15(E)	5		#7	34'-6"	
w16(E)	6		#7	37'-0"	
w17(E)	17		#7	8'-0"	
w18(E)	12		#7	33'-2"	
w19(E)	20		#7	18'-6"	
w20(E)	24		#7	17'-4"	
w21(E)	14		#5	22'-9"	
w22(E)	28		#6	22'-9"	
sp1(E)	8		#5	14'-11"	WWW
sp2(E)	7		#5	15'-11"	WWW
sp3(E)	2		#5	14'-11"	WWW
sp4		7	#5	19'-5"	WWW
sp5		6	#5	19'-5"	WWW

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	369
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

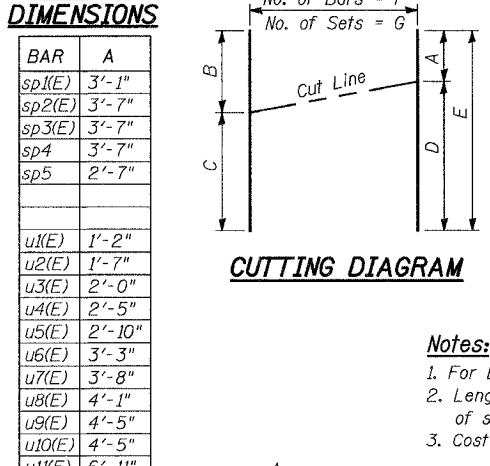
CONTRACT NO. 60E10



**NORTH ABUTMENT BILL OF MATERIAL (CONTINUED)**

BAR	NO.	NO. STAGES II & III	SIZE	LENGTH	SHAPE
u1(E)	4	4	#5	4'-6"	
u2(E)	4	4	#5	4'-11"	
u3(E)	4	4	#5	5'-4"	
u4(E)	4	4	#5	5'-9"	
u5(E)	4	4	#5	6'-2"	
u6(E)	4	4	#5	6'-7"	
u7(E)	4	4	#5	7'-0"	
u8(E)	4	4	#5	7'-5"	
u9(E)	4	4	#5	7'-9"	
u10(E)	4	4	#5	7'-9"	
u11(E)	4	4	#5	10'-3"	
u12(E)	4	4	#5	12'-8"	
Porous Granular Embankment			Cu. Yd.	1075.0	
Structure Excavation			Cu. Yd.	1077	
Non-Special Waste Disposal			Cu. Yd.	2764.5	
Concrete Structures			Cu. Yd.	733.1	
Reinforcement Bars			Lbs.	5160	
Reinforcement Bars, Epoxy coated			Lbs.	143470	
Concrete Sealer			Sq. Ft.	290	
Geocomposite Wall Drain			Sq. Ft.	384	
Braced Excavation			Cu. Yd.	1472	
Drilled Shaft in Soil			Cu. Yd.	215.7	
Drilled Shaft in Rock			Cu. Yd.	35.6	
Permanent Steel Sheet Piling			Sq. Ft.	1414	
Bar Splicers			Each	72	

**BENDING DIMENSIONS**



**CUTTING DIAGRAM DIMENSIONS**

BAR	A	B	C	D	E	F	G
h3(E)	4'-8"	12'-3"	16'-3"	23'-10"	28'-6"	4	2
h17(E)	14'-6"	16'-3"	17'-0"	18'-9"	33'-3"	8	1
v1(E)	12'-0"	13'-7"	14'-1"	15'-8"	27'-8"	7	1
v3(E)	3'-0"	5'-9 5/8"	6'-1 3/8"	8'-11"	11'-11"	10	1
v5(E)	12'-0"	16'-4"	17'-3"	21'-7"	33'-7"	12	1

**Notes:**  
1. For Locations of Sections X-X & Y-Y, see Sheet Nos. 19 & 20 of 37.  
2. Length of spiral given is height of spiral. Weight includes weight of spaces for spiral.  
3. Cost of pipe sleeve is included with Concrete Structures.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1

**NORTH ABUTMENT DETAILS AND BILL OF MATERIAL**

METRA & CN BRIDGE 20.6  
OVER U.S. RTE. 6 (159TH STREET)

STATION 91+24.94 STRUCTURE NO. 016-2755  
SCALE: DATE: 2/21/2008

100 South Wacker Drive,  
Suite 500  
Chicago, IL 60606  
(312) 939-1000



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