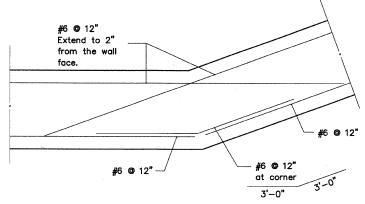


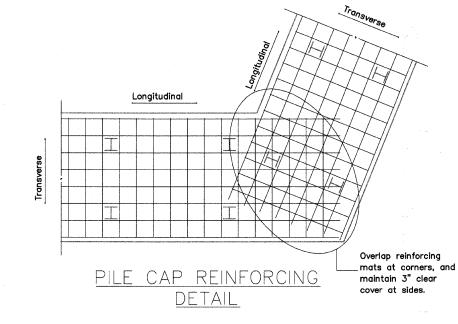
WALL CORNER DETAIL
ANGLES LESS
THAN 120 DEGREES

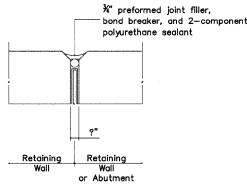


WALL CORNER DETAIL

ANGLES GREATER

THAN 120 DEGREES





JOINT DETAIL

Place 2" dia. PVC weep holes @ 10' max c/c. Cost shall be included in Concrete Structures. The height of the holes shall be the higher of 1'-6" above the top of the cap or 6" above the finish grade at the front of the wall.

Clear covers shall be: 3" bottom, 2" sides of walls 3" sides of footing, 2" top

All edges shall receive a ¾" chamfer.

Spacing of bars shown shall be the maximum allowed. Bars may be adjusted to miss piles.

The following reinforcing laps shall be used when necessary:

#4 = 2'-0 #5 = 2'-6 #6 = 3'-0 #7 = 4'-6

The #5 and #7 vertical dowels may be trimmed to maintain clear cover at walls with shorter heights.

Joints in the form of $\frac{\pi}{4}$ preformed joint filler, with bond breaker, and 2-component polyurethane sealant shall be used between retaining wall and abutment sections. The cost of the joint shall be included with the cost of Concrete Structures.

PILE DATA

RETAINING WALL DETAILS

NUMBER REQ'D

SEE BILL OF MATERIAL

NOM. REQ'D BEARING :

335 KIPS/PILE

ALLOWABLE AVAILABLE RESISTANCE 110 KIPS/PILE

EST. LENGTH

50 FT. FOR NE1, NE2, NE3, NW1, NW2,

50 FT. FOR SE1, SE2, SE3, SW1

ALL PILES DRIVEN TO REFUSAL

TEST PILES

TEST PILES FROM THE ADJACENT ABUTMENT CAN BE USED TO ESTIMATE PILE LENGTHS FOR THE RETAINING WALLS

BILL OF MATERIAL 9 RETAINING WALLS, PROTECT SEWER

					,					<u>SEWER</u>		
		SE1	SE2	SE3	<u>SW1</u>	NE1	NE2	NE3	NW1	NW2	PROTECTION	TOTAL
ITEM	UNIT	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
Concrete Structures	Cu. Yd.	54.6	75.7	88.8	91.3	42.9	65.6	120.8	69.3	87	56	752
Reinforcement Bars	Pounds	6050	7950	9200	9100	4860	7750	12810	7690	9590	1840	76840
Test Pile, Steel HP10x42	Each	0	0	0	0	0	0	0	0	0	0	0
Furnishing Steel Piles,	Feet	600	600	500	600	400	500	850	600	700	0	5350
HP10x42												
Driving Piles	Feet	600	600	500	600	400	500	850	600	700	0	5350
Pile Shoes & # Piles	Each	12	12	10	12	8	10	17	12	14	0	107
Structure Excavation	Cu. Yd.	103	110	59	138	59	58	65	72	49	240	953
Sub-base Granular Material,	Cu. Yd.	5	18	27	23	3	16	37	7	24	0	160
Type C, CA-11												

SCALE: 3/4"=1'-0" SHEET NO. 2 OF 3 SHEETS

FRAUENHOFFER

Frauenhoffer and Associates, P.C. Consulting Engineers 3002 Crossing Court Champaign, IL 61822 217—351—6268

SHEET	X		
 DWG NO.	abut.DWG		
DATE	NOV 2009		
PROJ NO.	8137		
 	······································		



USER NAME ==	DESIGNED -	KJH	REVISED —
	DRAWN -	KJH	REVISED —
PLOT SCALE =	CHECKED -	JF	REVISED
PLOT DATE ==	DATE	JANUARY, 2010	REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DUPAGE I	RIVER	BRIDGE
RETAINING	WALL	DETAILS

F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
	01-P4015-01-BT	WILL	41	29				
		CONTRACT NO. 63325						
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								