

DESIGNED AMP/RB	 RANDOLPH & ASSOCIATES, INC. 981 N. PINNACLE PARKWAY, PEORIA, IL 61609-2124 TEL. 309-690-0844 • FAX. 309-690-0885 • 1-800-891-7523 WWW.RANDOLPH-ASSOCIATES.COM CONSULTING ENGINEERS • LAND SURVEYORS	FILE NUMBER 136.115	F.A.U. RTE. 6584	SECTION 105R-1	COUNTY PEORIA	TOTAL SHEETS 115	SHEET NO. 18
CHECKED RB		DATE February 2004	STA. TO STA.				
DRAWN AMP		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					
CHECKED RB							

INLET AND PIPE PROTECTION		
LOCATION	STRUCTURE NUMBER	EACH
☉ STA. 178+63.00, 32.00' RT	1	1
☉ STA. 178+63.00, 40.00' RT	2	1
☉ STA. 180+98.84, 40.10' RT	3	1
☉ STA. 180+98.84, 32.00' RT	4	1
☉ STA. 182+82.00, 31.00' RT	5	1
☉ STA. 180+69.50, 57.00' LT	6	1
☉ STA. 180+53.00, 32.00' LT	7	1
☉ STA. 182+70.00, 57.30' LT	8A	1
☉ STA. 182+70.00, 31.00' LT	8	1
☉ STA. 184+39.80, 31.00' LT	9	1
☉ STA. 184+54.00, 58.00' LT	10	1
☉ STA. 184+91.00, 31.00' RT	11	1
☉ STA. 184+91.00, 31.00' LT	12	1
☉ STA. 184+80.00, 66.00' LT	13	1
☉ STA. 187+10.90, 31.00' LT	14	1
☉ STA. 188+16.75, 31.00' LT	14A	1
☉ STA. 187+10.90, 31.00' RT	15	1
☉ STA. 187+10.90, 54.50' RT	15A	1
☉ STA. 189+23.30, 31.00' RT	16	1
☉ STA. 189+50.00, 50.60' RT	16A	1
☉ STA. 22+14.80, 13.20' LT	17	1
☉ STA. 22+14.80, 12.60' RT	18	1
☉ STA. 189+15.60, 31.00' LT	19	1
☉ STA. 190+95.00, 31.00' LT	20	1
☉ STA. 192+20.75, 46.00' LT	21	1
☉ STA. 192+91.00, 31.00' LT	22	1
☉ STA. 190+95.00, 31.00' RT	24	1
☉ STA. 193+00.00, 31.00' RT	25	1
☉ STA. 194+93.68, 31.00' RT	26	1
☉ STA. 195+06.67, 31.00' LT	27	1
<b>TOTAL</b>		<b>30</b>

EARTHWORK SCHEDULE							
LOCATION STATION TO STATION		LENGTH	EARTH EX. VOLUME	EARTH EX. ADJUSTED FOR SHRINKAGE	EMBANKMENT VOLUME	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	
			CU YD	CU YD	CU YD	FURNISH EX. CU YD	
STA. 176+50.00 TO STA. 178+00.00	150.00 FT	11.00	8.25	46.00	-37.75		
STA. 178+00.00 TO STA. 180+00.00	200.00 FT	127.70	95.78	46.10	49.68		
STA. 180+00.00 TO STA. 182+00.00	200.00 FT	302.10	226.58	253.10	-26.53		
STA. 182+00.00 TO STA. 184+00.00	200.00 FT	247.80	185.85	460.00	-274.15		
STA. 184+00.00 TO STA. 186+00.00	200.00 FT	140.50	105.38	856.80	-751.43		
STA. 186+00.00 TO STA. 188+00.00	200.00 FT	135.40	101.55	1511.70	-1410.15		
STA. 188+00.00 TO STA. 190+00.00	200.00 FT	188.80	141.60	329.20	-187.60		
STA. 190+00.00 TO STA. 192+00.00	200.00 FT	330.20	247.65	325.80	-78.15		
STA. 192+00.00 TO STA. 194+00.00	200.00 FT	189.70	142.28	207.80	-65.53		
STA. 194+00.00 TO STA. 196+00.00	200.00 FT	68.20	51.15	142.50	-91.35		
STA. 196+00.00 TO STA. 198+00.00	200.00 FT	133.70	100.28	17.80	82.48		
STA. 198+00.00 TO STA. 200+00.00	200.00 FT	68.40	51.30	0.00	51.30		
STA. 200+00.00 TO STA. 202+00.00	200.00 FT	78.70	59.03	0.00	59.03		
STA. 202+00.00 TO STA. 204+00.00	200.00 FT	72.70	54.53	3.40	51.13		
STA. 204+00.00 TO STA. 206+00.00	200.00 FT	83.20	62.40	5.90	56.50		
STA. 206+00.00 TO STA. 209+00.00	300.00 FT	65.10	48.83	69.60	-20.78		
<b>TOTAL</b>		<b>2243.20</b>	<b>1682.40</b>	<b>4275.70</b>	<b>-2593.30</b>		

NOTE: A SHRINKAGE FACTOR OF 25% WAS USED TO CALCULATE QUANTITIES OF WASTE MATERIAL.  
 NOTE: EARTHWORK WAS CALCULATED TO THE BOTTOM OF THE 4" TOPSOIL LINE ON CUT AND FILL SECTIONS.

PERIMETER EROSION BARRIER			
LOCATION STATION TO STATION	LT/RT	LENGTH	
		FOOT	
STA. 176+50.00 TO STA. 184+60.00	RT	810	
STA. 184+85.00 TO STA. 184+95.00	RT	25	
AROUND PERIMETER OF RIPRAP			
STA. 179+90.00 TO STA. 183+50.00	LT	360	
STA. 189+50.00 TO STA. 193+00.00	LT	350	
<b>TOTAL</b>		<b>1545</b>	

TEMPORARY DITCH CHECKS		
LOCATION STATION	LT/RT	EACH
STA. 186+00.00	RT	1
STA. 187+50.00	RT	1
STA. 189+25.00	RT	1
STA. 190+25.00	RT	1
<b>TOTAL</b>		<b>4</b>

SCHEDULE OF QUANTITIES

ALLEN ROAD  
 F.A.U. 6584 (SBI 174) SECTION 105R-1  
 PEORIA COUNTY