

LOCATION	REM AND DISP OF UNSUITABLE MATERIAL (TOPSOIL STRIPPING) (CU YD)				EARTH EXCAVATION (CU YD)				EXCAVATION TO BE USED IN EMBANKMENT (ADJ FOR 15% SHRINKAGE) (CU YD)				EMBANKMENT (CU YD)				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)			
	PRE-STAGE	STAGE I	STAGE II	STAGE III	PRE-STAGE	STAGE I	STAGE II	STAGE III	PRE-STAGE	STAGE I	STAGE II	STAGE III	PRE-STAGE	STAGE I	STAGE II	STAGE III	PRE-STAGE	STAGE I	STAGE II	STAGE III
	I RT.	LT.	RT. PROP.	LT. PROP.	I RT.	LT.	RT. PROP.	LT. PROP.	I RT.	LT.	RT. PROP.	LT. PROP.	I RT.	LT.	RT. PROP.	LT. PROP.	I RT.	LT.	RT. PROP.	LT. PROP.
SOUTH END TO ILLINOIS 173	86	98	20	11	27	646	839	125	23	549	713	106	117	126	15	32	-94	+423	+699	+74
ILLINOIS 173 TO STA. 116+00	17	23	11	3	25	351	386	19	22	299	328	17	18	18	21	38	+4	+280	+307	-22
STA. 116+00 TO BRIDGE	29	137	42	7	61	869	802	108	52	739	682	92	64	270	216	149	-12	+469	+465	-57
BRIDGE TO STA. 129+61	141	135	115	36	36	432	768	117	30	367	653	99	408	295	386	109	-377	+72	+266	-10
TOTAL	272	394	187	57	149	2,298	2,795	369					607	709	638	328	-483	+1,244	+1,738	-89

EARTHWORK SUMMARY OF QUANTITIES

	PRE-STAGE					TOTAL
	1 RT.	STAGE 1 LT.	STAGE 2	STAGE 3		
EARTH EXCAVATION	149	2,298	2,795	369	5,610	
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	272	394	187	57	909*	
EMBANKMENT	607	709	638	328	2,283	
FURNISHED EXCAVATION	483	-	-	89	572	

* REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS FROM ESTIMATED UNDERCUTTING IS 278 CU YD. IN ADDITION TO THE 909 CU YD IN THE TABLE ABOVE THE TOTAL QUANTITY EQUALS 1,187 CU YD.

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) HAS BEEN PROVIDED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

INLET & PIPE PROTECTION

STA.	OFFSET	LT/RT
106+75.0	30.0'	RT
106+79.5	25.2'	RT
108+00.0	25.7'	RT
108+00.0	26.5'	LT
109+00.0	25.4'	LT
109+00.0	24.0'	RT
109+50.0	24.8'	RT
110+86.0	24.4'	RT
114+40.0	26.0'	RT
115+50.0	22.3'	RT
118+90.0	33.0'	RT
119+50.0	30.1'	RT
120+25.0	33.0'	RT
120+90.0	26.0'	RT
121+10.0	24.4'	LT
121+61.0	26.0'	RT
122+25.0	31.5'	RT
125+00.0	29.5'	LT
TOTAL	18 EACH	

CONCRETE HEADWALL REMOVAL

STA.	OFFSET	LT/RT
110+55.0	20.4'	RT
110+80.0	23.4'	RT
TOTAL	2 EACH	

PIPE CULVERT REMOVAL

FROM STA.	TO STA.	LT/RT	LENGTH
106+78	107+06	RT/LT	49'
106+80	107+08	RT/LT	49'
110+55	110+80	RT	25'
121+72	122+10	RT	38'
122+55	122+91	RT	37'
124+54	124+95	LT	40'
TOTAL			238'

CONCRETE CURB, TYPE B

FROM STA.	TO STA.	LT/RT	LENGTH
112+17	112+25	LT	8'
112+23	112+36	RT	80'
112+75	112+84	RT	20'
113+19	113+28	RT	20'
TOTAL			128'

CONCRETE CURB, TYPE B (SPECIAL)

FROM STA.	TO STA.	LT/RT	LENGTH
119+06	119+06	RT	10'

TEMPORARY INFORMATION SIGNING

STA./ADDRESS	# OF SIGNS	AREA (SF)
SOUTH OF RCA SIGN	1*	25.7
104+78 RT	2**	12.5
104+83 LT	2**	12.5
9020	2**	12.5
9013	4(2 DWAYS)**	25.0
9014	2**	12.5
9017	2**	12.5
9018	2**	12.5
9103	2**	12.5
9110	2**	12.5
9109	2**	12.5
16421	2**	12.5
16420	2**	12.5
WEST OF EB RCA ON IL 173	1*	25.7
EAST OF WB RCA ON IL 173	1*	25.7
9204	2**	12.5
9203	2**	12.5
9206	2**	12.5
9205/9209	2**	12.5

STA./ADDRESS	# OF SIGNS	AREA (SF)
9210/9214	2**	12.5
9211	2**	12.5
9215	2**	12.5
9214/9218	2**	12.5
9218/9220	2**	12.5
9220	2**	12.5
9301	2**	12.5
9304	2**	12.5
9306	2**	12.5
9314	2**	12.5
9316	2**	12.5
9320	2**	12.5
9405	2**	12.5
ALDEN CEMETERY	2**	12.5
NORTH OF RCA SIGN	1*	25.7
TOTAL	66	490.3

* ARTERIAL ROAD INFORMATION SIGN 1 SIGN = 25.7 SF
 ** DRIVEWAY ENTRANCE SIGN 1 SIGN = 6.25 SF

TREES TO BE REMOVED

STATION	OFFSET	SIZE
114+65.74	21.04' LT	26"
118+07.64	24.26' RT	4x13"
118+48.15	24.99' RT	17"
118+69.02	24.88' RT	31"
122+12.04	42.55' LT	2"
122+12.84	36.17' LT	8"x10"
122+42.98	37.35' LT	10"
122+43.96	35.26' LT	10"
122+67.74	35.08' LT	6"
122+77.08	34.09' LT	6"
122+88.64	33.89' LT	8"
122+89.73	39.87' LT	10"x12"
124+87.78	43.52' RT	20"
125+00.61	25.94' LT	10"x3x9",5"
125+86.48	43.03' RT	20"
126+33.28	43.01' RT	9"
126+44.96	47.81' RT	6"
126+66.58	50.77' RT	16"
TOTAL (6-15 UNITS DIA.)		184 UNITS
TOTAL (OVER 15 UNITS)		130 UNITS