HCM 6th AWSC
6: Moriches Road & Evon Lane/Mills Pond Road

Intersection	
Intersection Delay, s/veh	10.3
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	8	4	136	22	16	2	130	202	8	119	1
Future Vol, veh/h	1	8	4	136	22	16	2	130	202	8	119	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	9	4	145	23	17	2	138	215	9	127	1
Number of Lanes	0	1	0	0	1	1	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	8.5	10.9	10.6	9.1
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	1%	8%	86%	0%	6%
Vol Thru, %	39%	62%	14%	0%	93%
Vol Right, %	60%	31%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	334	13	158	16	128
LT Vol	2	1	136	0	8
Through Vol	130	8	22	0	119
RT Vol	202	4	0	16	1
Lane Flow Rate	355	14	168	17	136
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.427	0.021	0.283	0.023	0.186
Departure Headway (Hd)	4.328	5.369	6.061	4.919	4.918
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	828	671	588	720	724
Service Time	2.37	3.369	3.843	2.701	2.979
HCM Lane V/C Ratio	0.429	0.021	0.286	0.024	0.188
HCM Control Delay	10.6	8.5	11.2	7.8	9.1
HCM Lane LOS	B	A	B	A	A
HCM 95th-tile Q	2.2	0.1	1.2	0.1	0.7

HCM 6th Signalized Intersection Summary
7: Woodlawn Avenue/Gated & Moriches Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	0	235	0	0	0	214	342	0	0	251	42
Future Volume (veh/h)	43	0	235	0	0	0	214	342	0	0	251	42
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1870	0	1870				1870	1945	0	0	1870	1870
Adj Flow Rate, veh/h	47	0	255				233	372	0	0	273	46
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	0	2				2	2	0	0	2	2
Cap, veh/h	256	0	504				677	1247	0	0	560	94
Arrive On Green	0.14	0.00	0.14				0.17	0.64	0.00	0.00	0.36	0.36
Sat Flow, veh/h	1781	0	1585				1781	1945	0	0	1560	263
Grp Volume(v), veh/h	47	0	255				233	372	0	0	0	319
Grp Sat Flow(s),veh/h/ln	1781	0	1585				1781	1945	0	0	0	1823
Q Serve(g_s), s	1.3	0.0	7.3				3.6	4.7	0.0	0.0	0.0	7.6
Cycle Q Clear(g_c), s	1.3	0.0	7.3				3.6	4.7	0.0	0.0	0.0	7.6
Prop In Lane	1.00		1.00				1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h	256	0	504				677	1247	0	0	0	654
V/C Ratio(X)	0.18	0.00	0.51				0.34	0.30	0.00	0.00	0.00	0.49
Avail Cap(c_a), veh/h	256	0	504				685	2024	0	0	0	1374
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				1.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	21.0	0.0	15.4				7.0	4.4	0.0	0.0	0.0	13.9
Incr Delay (d2), s/veh	0.3	0.0	0.8				0.3	0.1	0.0	0.0	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.1				1.1	1.3	0.0	0.0	0.0	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	21.3	0.0	16.3				7.3	4.6	0.0	0.0	0.0	14.4
LnGrp LOS	C	A	B				A	A	A	A	A	B
Approach Vol, veh/h		302						605			319	
Approach Delay, s/veh		17.0						5.6			14.4	
Approach LOS		B						A			B	

Timer - Assigned Phs	2	4	5	6
Phs Duration (G+Y+Rc), s	41.7	14.0	15.7	26.0
Change Period (Y+Rc), s	6.0	6.0	6.0	6.0
Max Green Setting (Gmax), s	58.0	8.0	10.0	42.0
Max Q Clear Time (g_c+I1), s	6.7	9.3	5.6	9.6
Green Ext Time (p_c), s	1.6	0.0	0.3	1.3

Intersection Summary	
HCM 6th Ctrl Delay	10.7
HCM 6th LOS	B

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	124	1477	20	21	2202	348	3	40	10	268	60	84
Future Volume (veh/h)	124	1477	20	21	2202	348	3	40	10	268	60	84
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	128	1523	21	22	2270	0	3	41	10	276	62	87
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	157	3267	986	46	2885		230	83	92	352	107	231
Arrive On Green	0.09	0.64	0.62	0.01	0.57	0.00	0.07	0.04	0.04	0.10	0.06	0.06
Sat Flow, veh/h	1781	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	128	1523	21	22	2270	0	3	41	10	276	62	87
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	7.9	17.2	0.3	0.7	39.1	0.0	0.1	2.4	0.7	8.8	3.6	4.0
Cycle Q Clear(g_c), s	7.9	17.2	0.3	0.7	39.1	0.0	0.1	2.4	0.7	8.8	3.6	4.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	157	3267	986	46	2885		230	83	92	352	107	231
V/C Ratio(X)	0.82	0.47	0.02	0.48	0.79		0.01	0.49	0.11	0.78	0.58	0.38
Avail Cap(c_a), veh/h	238	4094	1243	770	4563		554	408	367	554	408	486
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.3	10.4	1.9	55.0	19.1	0.0	48.9	52.4	50.1	49.2	51.6	23.1
Incr Delay (d2), s/veh	12.2	0.1	0.0	7.6	0.5	0.0	0.0	4.4	0.5	3.9	4.8	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	5.4	0.2	0.3	13.5	0.0	0.0	1.2	0.3	3.9	1.8	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	62.5	10.5	1.9	62.6	19.6	0.0	49.0	56.8	50.7	53.1	56.4	24.1
LnGrp LOS	E	B	A	E	B		D	E	D	D	E	C
Approach Vol, veh/h		1672			2292	A		54			425	
Approach Delay, s/veh		14.3			20.0			55.2			47.6	
Approach LOS		B			C			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.4	12.5	6.5	76.8	15.0	13.9	14.9	68.4
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.0	24.5	25.0	88.0	18.0	* 25	15.0	* 98
Max Q Clear Time (g_c+I1), s	10.8	4.4	2.7	19.2	2.1	6.0	9.9	41.1
Green Ext Time (p_c), s	0.7	0.1	0.0	9.7	0.0	0.5	0.1	20.4

Intersection Summary	
HCM 6th Ctrl Delay	21.0
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
9: NYS 25A & Main Street

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	667	54	168	610	67	258
Future Volume (veh/h)	667	54	168	610	67	258
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1945	1870	1945	1870	1870
Adj Flow Rate, veh/h	702	0	177	642	71	272
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	766		490	1141	294	718
Arrive On Green	0.43	0.00	0.26	0.26	0.04	0.38
Sat Flow, veh/h	1781	1648	1870	1648	1781	1870
Grp Volume(v), veh/h	702	0	177	642	71	272
Grp Sat Flow(s),veh/h/ln	1781	1648	1870	1648	1781	1870
Q Serve(g_s), s	27.9	0.0	5.8	14.8	2.1	7.9
Cycle Q Clear(g_c), s	27.9	0.0	5.8	14.8	2.1	7.9
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	766		490	1141	294	718
V/C Ratio(X)	0.92		0.36	0.56	0.24	0.38
Avail Cap(c_a), veh/h	924		647	1279	314	896
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.2	0.0	22.6	5.8	18.0	16.7
Incr Delay (d2), s/veh	12.2	0.0	0.4	0.4	0.4	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.0	0.0	2.5	11.7	0.9	3.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	32.3	0.0	23.1	6.3	18.4	17.0
LnGrp LOS	C		C	A	B	B
Approach Vol, veh/h	702	A	819			343
Approach Delay, s/veh	32.3		9.9			17.3
Approach LOS	C		A			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	9.2	27.7			36.9	38.3
Change Period (Y+Rc), s	6.0	8.0			8.0	6.0
Max Green Setting (Gmax), s	4.3	26.0			36.0	39.0
Max Q Clear Time (g_c+I1), s	4.1	16.8			9.9	29.9
Green Ext Time (p_c), s	0.0	2.9			1.0	2.4

Intersection Summary	
HCM 6th Ctrl Delay	19.7
HCM 6th LOS	B

Notes

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
10: Stony Brook Road & South Drive

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	83	128	429	728	346	210
Future Volume (veh/h)	83	128	429	728	346	210
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	90	139	466	791	376	228
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	534	475	996	844	235	88
Arrive On Green	0.30	0.30	0.53	0.53	0.53	0.53
Sat Flow, veh/h	1781	1585	1870	1585	274	166
Grp Volume(v), veh/h	90	139	466	791	604	0
Grp Sat Flow(s),veh/h/ln	1781	1585	1870	1585	440	0
Q Serve(g_s), s	2.4	4.4	10.2	30.6	24.8	0.0
Cycle Q Clear(g_c), s	2.4	4.4	10.2	30.6	35.0	0.0
Prop In Lane	1.00	1.00		1.00	0.62	
Lane Grp Cap(c), veh/h	534	475	996	844	323	0
V/C Ratio(X)	0.17	0.29	0.47	0.94	1.87	0.00
Avail Cap(c_a), veh/h	976	869	996	844	323	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	17.0	17.7	9.5	14.3	23.9	0.0
Incr Delay (d2), s/veh	0.1	0.3	0.3	17.6	402.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	1.6	3.6	13.0	41.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	17.1	18.0	9.9	31.9	426.2	0.0
LnGrp LOS	B	B	A	C	F	A
Approach Vol, veh/h	229		1257			604
Approach Delay, s/veh	17.6		23.7			426.2
Approach LOS	B		C			F

Timer - Assigned Phs	2			6	8
Phs Duration (G+Y+Rc), s	41.0			41.0	24.7
Change Period (Y+Rc), s	6.0			6.0	5.0
Max Green Setting (Gmax), s	35.0			35.0	36.0
Max Q Clear Time (g_c+I1), s	32.6			37.0	6.4
Green Ext Time (p_c), s	1.5			0.0	0.7

Intersection Summary	
HCM 6th Ctrl Delay	139.4
HCM 6th LOS	F

HCM 6th Signalized Intersection Summary
11: Oxhead Road & Stony Brook Road

Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations							
Traffic Volume (veh/h)	42	242	923	36	113	199	
Future Volume (veh/h)	42	242	923	36	113	199	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1976	1976	1870	1870	1870	1870	
Adj Flow Rate, veh/h	46	263	1003	39	123	216	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	0	0	2	2	2	2	
Cap, veh/h	48	273	1176	46	146	229	
Arrive On Green	0.19	0.19	0.66	0.66	0.66	0.66	
Sat Flow, veh/h	249	1422	1788	70	120	348	
Grp Volume(v), veh/h	310	0	0	1042	339	0	
Grp Sat Flow(s),veh/h/ln	1677	0	0	1858	468	0	
Q Serve(g_s), s	13.4	0.0	0.0	31.9	16.1	0.0	
Cycle Q Clear(g_c), s	13.4	0.0	0.0	31.9	48.0	0.0	
Prop In Lane	0.15	0.85		0.04	0.36		
Lane Grp Cap(c), veh/h	322	0	0	1222	375	0	
V/C Ratio(X)	0.96	0.00	0.00	0.85	0.90	0.00	
Avail Cap(c_a), veh/h	322	0	0	1222	375	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	0.00	
Uniform Delay (d), s/veh	29.3	0.0	0.0	9.7	19.1	0.0	
Incr Delay (d2), s/veh	40.5	0.0	0.0	6.0	24.5	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln	8.7	0.0	0.0	11.7	6.5	0.0	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	69.7	0.0	0.0	15.8	43.6	0.0	
LnGrp LOS	E	A	A	B	D	A	
Approach Vol, veh/h	310		1042			339	
Approach Delay, s/veh	69.7		15.8			43.6	
Approach LOS	E		B			D	

Timer - Assigned Phs	2			6	8
Phs Duration (G+Y+Rc), s	54.0			54.0	19.0
Change Period (Y+Rc), s	6.0			6.0	5.0
Max Green Setting (Gmax), s	48.0			48.0	14.0
Max Q Clear Time (g_c+I1), s	33.9			50.0	15.4
Green Ext Time (p_c), s	3.9			0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	31.2
HCM 6th LOS	C

HCM 6th Signalized Intersection Summary
12: Hallock Road & Stony Brook Road

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	115	13	15	823	311	31
Future Volume (veh/h)	115	13	15	823	311	31
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	119	13	15	848	321	32
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	286	254	627	1057	946	94
Arrive On Green	0.16	0.16	0.57	0.57	0.57	0.57
Sat Flow, veh/h	1781	1585	1028	1870	1674	167
Grp Volume(v), veh/h	119	13	15	848	0	353
Grp Sat Flow(s),veh/h/ln	1781	1585	1028	1870	0	1840
Q Serve(g_s), s	2.8	0.3	0.4	17.1	0.0	4.9
Cycle Q Clear(g_c), s	2.8	0.3	5.3	17.1	0.0	4.9
Prop In Lane	1.00	1.00	1.00			0.09
Lane Grp Cap(c), veh/h	286	254	627	1057	0	1040
V/C Ratio(X)	0.42	0.05	0.02	0.80	0.00	0.34
Avail Cap(c_a), veh/h	339	301	1132	1975	0	1944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	17.9	16.8	7.0	8.2	0.0	5.5
Incr Delay (d2), s/veh	1.0	0.1	0.0	1.5	0.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.1	0.1	4.8	0.0	1.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	18.9	16.9	7.0	9.7	0.0	5.7
LnGrp LOS	B	B	A	A	A	A
Approach Vol, veh/h	132			863	353	
Approach Delay, s/veh	18.7			9.6	5.7	
Approach LOS	B			A	A	

Timer - Assigned Phs	2		4		6
Phs Duration (G+Y+Rc), s	32.8		14.6		32.8
Change Period (Y+Rc), s	6.0		8.0		6.0
Max Green Setting (Gmax), s	50.0		8.0		50.0
Max Q Clear Time (g_c+I1), s	19.1		4.8		6.9
Green Ext Time (p_c), s	7.7		0.1		2.4

Intersection Summary	
HCM 6th Ctrl Delay	9.5
HCM 6th LOS	A

HCM 6th Signalized Intersection Summary
13: NYS 347 & Stony Brook Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	459	1417	33	85	2444	145	64	219	135	177	86	141
Future Volume (veh/h)	459	1417	33	85	2444	145	64	219	135	177	86	141
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1870	1870	1870	1945	1870	1870	1870
Adj Flow Rate, veh/h	473	1461	34	88	2520	149	66	226	139	182	89	145
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	551	1580	711	259	2264	682	301	311	258	263	415	336
Arrive On Green	0.16	0.44	0.43	0.15	0.44	0.43	0.04	0.17	0.16	0.10	0.22	0.21
Sat Flow, veh/h	3456	3554	1648	1781	5106	1585	1781	1870	1648	1781	1870	1585
Grp Volume(v), veh/h	473	1461	34	88	2520	149	66	226	139	182	89	145
Grp Sat Flow(s),veh/h/ln	1728	1777	1648	1781	1702	1585	1781	1870	1648	1781	1870	1585
Q Serve(g_s), s	20.4	59.5	1.4	6.8	68.0	9.1	4.7	17.6	8.7	12.8	6.0	12.2
Cycle Q Clear(g_c), s	20.4	59.5	1.4	6.8	68.0	9.1	4.7	17.6	8.7	12.8	6.0	12.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	551	1580	711	259	2264	682	301	311	258	263	415	336
V/C Ratio(X)	0.86	0.92	0.05	0.34	1.11	0.22	0.22	0.73	0.54	0.69	0.21	0.43
Avail Cap(c_a), veh/h	1014	1668	752	476	2264	682	389	360	301	287	415	336
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.8	40.2	15.3	58.9	42.7	27.5	51.2	60.6	31.5	47.4	48.8	52.4
Incr Delay (d2), s/veh	4.0	8.9	0.0	0.8	57.8	0.2	0.4	6.1	1.7	6.3	0.3	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.1	26.7	0.7	3.1	39.1	3.4	2.2	8.9	3.5	6.2	2.9	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	66.8	49.1	15.3	59.7	100.5	27.6	51.6	66.8	33.3	53.7	49.0	53.3
LnGrp LOS	E	D	B	E	F	C	D	E	C	D	D	D
Approach Vol, veh/h		1968			2757			431			416	
Approach Delay, s/veh		52.8			95.3			53.6			52.6	
Approach LOS		D			F			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.9	30.0	29.3	73.2	12.4	38.5	29.5	73.0
Change Period (Y+Rc), s	6.0	6.0	7.0	* 7	6.0	6.0	5.0	7.0
Max Green Setting (Gmax), s	17.0	28.0	41.0	* 70	14.0	31.0	45.0	66.0
Max Q Clear Time (g_c+I1), s	14.8	19.6	8.8	61.5	6.7	14.2	22.4	70.0
Green Ext Time (p_c), s	0.1	1.0	0.3	4.7	0.1	0.8	2.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	73.9
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

HCM 6th TWSC
14: Mills Pond Road & Site Access 1

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	4	178	0	1	265
Future Vol, veh/h	0	4	178	0	1	265
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	4	193	0	1	288

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	483	193	0	0	193	0
Stage 1	193	-	-	-	-	-
Stage 2	290	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	542	849	-	-	1380	-
Stage 1	840	-	-	-	-	-
Stage 2	759	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	541	849	-	-	1380	-
Mov Cap-2 Maneuver	541	-	-	-	-	-
Stage 1	839	-	-	-	-	-
Stage 2	759	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.3	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	849	1380	-
HCM Lane V/C Ratio	-	-	0.005	0.001	-
HCM Control Delay (s)	-	-	9.3	7.6	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

HCM 6th TWSC
15: Mills Pond Road & Site Access 2

Intersection	
Int Delay, s/veh	6.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	75	59	132	72	193	58
Future Vol, veh/h	75	59	132	72	193	58
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	82	64	143	78	210	63

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	665	182	0	0	221	0
Stage 1	182	-	-	-	-	-
Stage 2	483	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	425	861	-	-	1348	-
Stage 1	849	-	-	-	-	-
Stage 2	620	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	357	861	-	-	1348	-
Mov Cap-2 Maneuver	357	-	-	-	-	-
Stage 1	712	-	-	-	-	-
Stage 2	620	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15.7	0	6.3
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	481	1348	-
HCM Lane V/C Ratio	-	-	0.303	0.156	-
HCM Control Delay (s)	-	-	15.7	8.2	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	1.3	0.6	-

HCM 6th TWSC
16: Site Access & NYS Route 25A

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1047	100	0	1088	0	41
Future Vol, veh/h	1047	100	0	1088	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1138	109	0	1183	0	45

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	1193
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	228
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	228
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	24.6
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	228	-	-	-
HCM Lane V/C Ratio	0.195	-	-	-
HCM Control Delay (s)	24.6	-	-	-
HCM Lane LOS	C	-	-	-
HCM 95th %tile Q(veh)	0.7	-	-	-

HCM 6th TWSC
17: Development Drive

Intersection	
Int Delay, s/veh	2.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	16	49	183	334	516	56
Future Vol, veh/h	16	49	183	334	516	56
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	260	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	53	197	359	555	60

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1338	585	615	0	-	0
Stage 1	585	-	-	-	-	-
Stage 2	753	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	169	511	965	-	-	-
Stage 1	557	-	-	-	-	-
Stage 2	465	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	126	511	965	-	-	-
Mov Cap-2 Maneuver	126	-	-	-	-	-
Stage 1	415	-	-	-	-	-
Stage 2	465	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	19.1	3.4	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	965	-	126	511	-	-
HCM Lane V/C Ratio	0.204	-	0.137	0.103	-	-
HCM Control Delay (s)	9.7	0	38	12.9	-	-
HCM Lane LOS	A	A	E	B	-	-
HCM 95th %tile Q(veh)	0.8	-	0.5	0.3	-	-

HCM 6th TWSC
21: Stony Brook Road & Stony Brook Rd WB Right

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	WBT	WBR	SEL	SER
Lane Configurations		↑	↱		↰	
Traffic Vol, veh/h	0	422	256	105	107	0
Future Vol, veh/h	0	422	256	105	107	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	444	269	111	113	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	769	-
Stage 1	-	-	-	-	325	-
Stage 2	-	-	-	-	444	-
Critical Hdwy	-	-	-	-	6.42	-
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	-	-	3.518	-
Pot Cap-1 Maneuver	0	-	-	-	369	0
Stage 1	0	-	-	-	732	0
Stage 2	0	-	-	-	646	0
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	369	-
Mov Cap-2 Maneuver	-	-	-	-	369	-
Stage 1	-	-	-	-	732	-
Stage 2	-	-	-	-	646	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	19
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SELn1
Capacity (veh/h)	-	-	-	369
HCM Lane V/C Ratio	-	-	-	0.305
HCM Control Delay (s)	-	-	-	19
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	1.3

HCM 6th TWSC
22: 25A & Stony Brook Rd WB Right

Intersection	
Int Delay, s/veh	1.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	105	651	0	107	829
Future Vol, veh/h	0	105	651	0	107	829
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	120	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	111	685	0	113	873

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	685	0	-	685	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.22	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	0	448	-	0	908	-
Stage 1	0	-	-	0	-	-
Stage 2	0	-	-	0	-	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	-	448	-	-	908	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15.6	0	1.1
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	WBLn1	SBL	SBT
Capacity (veh/h)	-	448	908	-
HCM Lane V/C Ratio	-	0.247	0.124	-
HCM Control Delay (s)	-	15.6	9.5	-
HCM Lane LOS	-	C	A	-
HCM 95th %tile Q(veh)	-	1	0.4	-

HCM 6th Signalized Intersection Summary
1: Mills Pond Road & NYS Route 25A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1167	56	181	939	123	202
Future Volume (veh/h)	1167	56	181	939	123	202
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1885	1885	1900	1900
Adj Flow Rate, veh/h	1228	59	191	988	129	213
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	1	1	0	0
Cap, veh/h	1234	1046	220	1489	163	274
Arrive On Green	0.66	0.66	0.08	0.79	0.09	0.09
Sat Flow, veh/h	1870	1585	1795	1885	1810	1610
Grp Volume(v), veh/h	1228	59	191	988	129	213
Grp Sat Flow(s),veh/h/ln	1870	1585	1795	1885	1810	1610
Q Serve(g_s), s	65.0	1.3	6.2	23.1	7.0	9.0
Cycle Q Clear(g_c), s	65.0	1.3	6.2	23.1	7.0	9.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1234	1046	220	1489	163	274
V/C Ratio(X)	0.99	0.06	0.87	0.66	0.79	0.78
Avail Cap(c_a), veh/h	1234	1046	220	1489	163	274
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.8	6.0	34.3	4.6	44.6	39.7
Incr Delay (d2), s/veh	24.4	0.1	28.8	2.3	22.8	13.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	29.4	0.4	4.7	5.7	4.1	11.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	41.2	6.1	63.1	7.0	67.4	53.0
LnGrp LOS	D	A	E	A	E	D
Approach Vol, veh/h	1287			1179	342	
Approach Delay, s/veh	39.6			16.1	58.4	
Approach LOS	D			B	E	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	13.0	72.0		15.0		85.0
Change Period (Y+Rc), s	5.0	6.0		6.0		6.0
Max Green Setting (Gmax), s	8.0	66.0		9.0		79.0
Max Q Clear Time (g_c+I1), s	8.2	3.3		11.0		0.0
Green Ext Time (p_c), s	0.0	0.3		0.0		0.0

Intersection Summary		
HCM 6th Ctrl Delay		32.0
HCM 6th LOS		C

HCM 6th TWSC
2: 25A & Stony Brook Road

Intersection	
Int Delay, s/veh	44.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	314	0	969	490	0	820
Future Vol, veh/h	314	0	969	490	0	820
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	Free	-	Free
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	324	0	999	505	0	845

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1844	-	0	-	-	-
Stage 1	999	-	-	-	-	-
Stage 2	845	-	-	-	-	-
Critical Hdwy	6.42	-	-	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	-	-	-	-	-
Pot Cap-1 Maneuver	~ 82	0	-	0	0	-
Stage 1	356	0	-	0	0	-
Stage 2	421	0	-	0	0	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	~ 82	-	-	-	-	-
Mov Cap-2 Maneuver	~ 213	-	-	-	-	-
Stage 1	356	-	-	-	-	-
Stage 2	421	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	297.7	0	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	WBLn1	SBT
Capacity (veh/h)	-	213	-
HCM Lane V/C Ratio	-	1.52	-
HCM Control Delay (s)	-	297.7	-
HCM Lane LOS	-	F	-
HCM 95th %tile Q(veh)	-	19.9	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

HCM 6th TWSC
3: Lake Avenue/Fire Dept & Route 25A

Intersection	
Int Delay, s/veh	10.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔		↰	↑			↑	↗		↔	
Traffic Vol, veh/h	0	1065	10	247	936	0	0	0	311	0	0	0
Future Vol, veh/h	0	1065	10	247	936	0	0	0	311	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	250	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	1158	11	268	1017	0	0	0	338	0	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1017	0	0	1169	0	0	-	2717	1164	2886	2722	1017
Stage 1	-	-	-	-	-	-	-	1164	-	1553	1553	-
Stage 2	-	-	-	-	-	-	-	1553	-	1333	1169	-
Critical Hdwy	4.12	-	-	4.12	-	-	-	5	5	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	-	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	-	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	-	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	682	-	-	598	-	0	0	66	351	10	21	288
Stage 1	-	-	-	-	-	0	0	269	-	142	174	-
Stage 2	-	-	-	-	-	0	0	174	-	190	267	-
Platoon blocked, %		-	-		-							
Mov Cap-1 Maneuver	682	-	-	598	-	-	-	36	351	0	12	288
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	36	-	0	12	-
Stage 1	-	-	-	-	-	-	-	269	-	142	96	-
Stage 2	-	-	-	-	-	-	-	96	-	7	267	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	3.3	74.1	0
HCM LOS			F	A

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	SBLn1
Capacity (veh/h)	-	351	682	-	-	598	-	-
HCM Lane V/C Ratio	-	0.963	-	-	-	0.449	-	-
HCM Control Delay (s)	0	74.1	0	-	-	15.8	-	0
HCM Lane LOS	A	F	A	-	-	C	-	A
HCM 95th %tile Q(veh)	-	10.5	0	-	-	2.3	-	-

HCM 6th Signalized Intersection Summary
4: Route 25A & Moriches Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	96	130	8	172	133	0	22	971	185	0	895	52
Future Volume (veh/h)	96	130	8	172	133	0	22	971	185	0	895	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	0	1870	1870	1870	0	1870	1870
Adj Flow Rate, veh/h	101	137	8	181	140	0	23	1022	195	0	942	55
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	0	2	2	2	0	2	2
Cap, veh/h	299	420	25	294	449	0	49	1098	1037	0	1164	68
Arrive On Green	0.24	0.24	0.23	0.24	0.24	0.00	0.65	0.67	0.65	0.00	0.67	0.65
Sat Flow, veh/h	1249	1750	102	1243	1870	0	16	1650	1585	0	1750	102
Grp Volume(v), veh/h	101	0	145	181	140	0	1045	0	195	0	0	997
Grp Sat Flow(s),veh/h/ln	1249	0	1852	1243	1870	0	1666	0	1585	0	0	1852
Q Serve(g_s), s	6.9	0.0	6.1	13.4	5.8	0.0	19.0	0.0	4.6	0.0	0.0	37.2
Cycle Q Clear(g_c), s	12.7	0.0	6.1	19.5	5.8	0.0	56.2	0.0	4.6	0.0	0.0	37.2
Prop In Lane	1.00		0.06	1.00		0.00	0.02		1.00	0.00		0.06
Lane Grp Cap(c), veh/h	299	0	445	294	449	0	1129	0	1037	0	0	1232
V/C Ratio(X)	0.34	0.00	0.33	0.62	0.31	0.00	0.93	0.00	0.19	0.00	0.00	0.81
Avail Cap(c_a), veh/h	341	0	507	335	512	0	1163	0	1067	0	0	1266
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	34.9	0.0	29.8	37.8	29.7	0.0	13.8	0.0	6.5	0.0	0.0	11.6
Incr Delay (d2), s/veh	0.5	0.0	0.3	2.2	0.3	0.0	12.4	0.0	0.1	0.0	0.0	4.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.0	2.7	4.1	2.6	0.0	17.2	0.0	1.3	0.0	0.0	12.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	35.4	0.0	30.1	40.0	29.9	0.0	26.2	0.0	6.6	0.0	0.0	15.8
LnGrp LOS	D	A	C	D	C	A	C	A	A	A	A	B
Approach Vol, veh/h		246			321			1240			997	
Approach Delay, s/veh		32.3			35.6			23.1			15.8	
Approach LOS		C			D			C			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		68.2		26.8		68.2		26.8				
Change Period (Y+Rc), s		6.0		5.0		6.0		5.0				
Max Green Setting (Gmax), s		64.0		25.0		64.0		25.0				
Max Q Clear Time (g_c+I1), s		58.2		14.7		39.2		21.5				
Green Ext Time (p_c), s		4.0		0.5		8.8		0.3				

Intersection Summary												
HCM 6th Ctrl Delay			22.7									
HCM 6th LOS			C									

HCM 6th Signalized Intersection Summary
5: Lake Avenue & Moriches Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	142	175	18	146	66	169	247	19	34	219	0
Future Volume (veh/h)	0	142	175	18	146	66	169	247	19	34	219	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1945	1945	1945	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	145	0	18	149	67	172	252	19	35	223	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	0	581		139	558	512	660	812	61	618	885	0
Arrive On Green	0.00	0.31	0.00	0.31	0.31	0.31	0.47	0.47	0.41	0.47	0.47	0.00
Sat Flow, veh/h	0	1870	1585	101	1794	1648	1158	1718	129	1108	1870	0
Grp Volume(v), veh/h	0	145	0	167	0	67	172	0	271	35	223	0
Grp Sat Flow(s),veh/h/ln	0	1870	1585	1894	0	1648	1158	0	1847	1108	1870	0
Q Serve(g_s), s	0.0	2.1	0.0	0.0	0.0	1.1	3.9	0.0	3.4	0.7	2.6	0.0
Cycle Q Clear(g_c), s	0.0	2.1	0.0	2.4	0.0	1.1	6.5	0.0	3.4	4.1	2.6	0.0
Prop In Lane	0.00		1.00	0.11		1.00	1.00		0.07	1.00		0.00
Lane Grp Cap(c), veh/h	0	581		697	0	512	660	0	874	618	885	0
V/C Ratio(X)	0.00	0.25		0.24	0.00	0.13	0.26	0.00	0.31	0.06	0.25	0.00
Avail Cap(c_a), veh/h	0	1163		1270	0	1025	1708	0	2546	1621	2578	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	9.5	0.0	9.6	0.0	9.2	7.8	0.0	6.1	7.3	5.8	0.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.2	0.0	0.1	0.2	0.0	0.2	0.0	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.0	0.7	0.0	0.3	0.7	0.0	0.9	0.1	0.7	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	9.7	0.0	9.8	0.0	9.3	8.0	0.0	6.3	7.3	6.0	0.0
LnGrp LOS	A	A		A	A	A	A	A	A	A	A	A
Approach Vol, veh/h		145	A		234			443			258	
Approach Delay, s/veh		9.7			9.6			6.9			6.2	
Approach LOS		A			A			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	21.5	15.5	21.5	15.5
Change Period (Y+Rc), s	* 6.5	5.5	* 6.5	5.5
Max Green Setting (Gmax), s	* 49	21.5	* 49	21.5
Max Q Clear Time (g_c+I1), s	8.5	4.1	6.1	4.4
Green Ext Time (p_c), s	1.9	0.4	1.0	0.7

Intersection Summary	
HCM 6th Ctrl Delay	7.7
HCM 6th LOS	A

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th AWSC
6: Moriches Road & Evon Lane/Mills Pond Road

Intersection	
Intersection Delay, s/veh	23.1
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	28	7	293	33	9	13	236	264	8	181	1
Future Vol, veh/h	1	28	7	293	33	9	13	236	264	8	181	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	29	7	308	35	9	14	248	278	8	191	1
Number of Lanes	0	1	0	0	1	1	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	10.7	23.3	27.6	12.8
HCM LOS	B	C	D	B

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	3%	90%	0%	4%
Vol Thru, %	46%	78%	10%	0%	95%
Vol Right, %	51%	19%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	513	36	326	9	190
LT Vol	13	1	293	0	8
Through Vol	236	28	33	0	181
RT Vol	264	7	0	9	1
Lane Flow Rate	540	38	343	9	200
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.81	0.075	0.677	0.016	0.353
Departure Headway (Hd)	5.397	7.11	7.105	5.933	6.362
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	664	506	504	598	568
Service Time	3.492	5.123	4.895	3.722	4.367
HCM Lane V/C Ratio	0.813	0.075	0.681	0.015	0.352
HCM Control Delay	27.6	10.7	23.7	8.8	12.8
HCM Lane LOS	D	B	C	A	B
HCM 95th-tile Q	8.3	0.2	5	0	1.6

HCM 6th Signalized Intersection Summary
7: Woodlawn Avenue/Gated & Moriches Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	76	0	416	0	0	0	323	479	0	0	525	51
Future Volume (veh/h)	76	0	416	0	0	0	323	479	0	0	525	51
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1870	0	1870				1870	1945	0	0	1870	1870
Adj Flow Rate, veh/h	80	0	438				340	504	0	0	553	54
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	0	2				2	2	0	0	2	2
Cap, veh/h	244	0	487				493	1279	0	0	645	63
Arrive On Green	0.14	0.00	0.14				0.17	0.66	0.00	0.00	0.38	0.38
Sat Flow, veh/h	1781	0	1585				1781	1945	0	0	1677	164
Grp Volume(v), veh/h	80	0	438				340	504	0	0	0	607
Grp Sat Flow(s),veh/h/ln	1781	0	1585				1781	1945	0	0	0	1841
Q Serve(g_s), s	2.4	0.0	8.0				5.7	7.0	0.0	0.0	0.0	17.7
Cycle Q Clear(g_c), s	2.4	0.0	8.0				5.7	7.0	0.0	0.0	0.0	17.7
Prop In Lane	1.00		1.00				1.00		0.00	0.00		0.09
Lane Grp Cap(c), veh/h	244	0	487				493	1279	0	0	0	708
V/C Ratio(X)	0.33	0.00	0.90				0.69	0.39	0.00	0.00	0.00	0.86
Avail Cap(c_a), veh/h	244	0	487				495	1931	0	0	0	1323
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				1.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	22.8	0.0	19.4				10.7	4.6	0.0	0.0	0.0	16.5
Incr Delay (d2), s/veh	0.8	0.0	19.4				4.0	0.2	0.0	0.0	0.0	3.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	2.6				2.1	1.9	0.0	0.0	0.0	7.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.6	0.0	38.8				14.8	4.8	0.0	0.0	0.0	19.7
LnGrp LOS	C	A	D				B	A	A	A	A	B
Approach Vol, veh/h		518						844			607	
Approach Delay, s/veh		36.4						8.8			19.7	
Approach LOS		D						A			B	

Timer - Assigned Phs	2	4	5	6
Phs Duration (G+Y+Rc), s	44.4	14.0	16.0	28.5
Change Period (Y+Rc), s	6.0	6.0	6.0	6.0
Max Green Setting (Gmax), s	58.0	8.0	10.0	42.0
Max Q Clear Time (g_c+I1), s	9.0	10.0	7.7	19.7
Green Ext Time (p_c), s	2.3	0.0	0.3	2.8

Intersection Summary	
HCM 6th Ctrl Delay	19.4
HCM 6th LOS	B

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	181	1683	102	173	1720	326	107	163	111	362	226	172
Future Volume (veh/h)	181	1683	102	173	1720	326	107	163	111	362	226	172
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	191	1772	107	182	1811	0	113	172	117	381	238	181
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	218	2520	755	253	2269		250	213	297	447	280	431
Arrive On Green	0.12	0.49	0.48	0.07	0.44	0.00	0.07	0.11	0.11	0.13	0.15	0.15
Sat Flow, veh/h	1781	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	191	1772	107	182	1811	0	113	172	117	381	238	181
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	12.5	31.9	2.8	6.1	36.2	0.0	3.7	10.6	7.7	12.8	14.7	7.4
Cycle Q Clear(g_c), s	12.5	31.9	2.8	6.1	36.2	0.0	3.7	10.6	7.7	12.8	14.7	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	218	2520	755	253	2269		250	213	297	447	280	431
V/C Ratio(X)	0.88	0.70	0.14	0.72	0.80		0.45	0.81	0.39	0.85	0.85	0.42
Avail Cap(c_a), veh/h	226	3233	977	729	3677		525	387	444	525	387	522
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.1	23.3	6.9	53.7	28.3	0.0	52.7	51.2	42.3	50.4	49.0	17.1
Incr Delay (d2), s/veh	29.2	0.5	0.1	3.8	0.7	0.0	1.3	7.1	0.9	11.3	12.1	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	11.7	1.5	2.7	13.7	0.0	1.6	5.4	3.0	6.2	7.7	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	80.3	23.8	6.9	57.5	29.0	0.0	54.0	58.3	43.1	61.7	61.2	17.7
LnGrp LOS	F	C	A	E	C		D	E	D	E	E	B
Approach Vol, veh/h		2070			1993	A		402			800	
Approach Delay, s/veh		28.1			31.6			52.7			51.6	
Approach LOS		C			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.3	21.0	13.7	63.5	16.1	25.3	19.5	57.6
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.8	24.5	25.0	73.0	18.0	* 25	15.0	* 83
Max Q Clear Time (g_c+I1), s	14.8	12.6	8.1	33.9	5.7	16.7	14.5	38.2
Green Ext Time (p_c), s	0.6	0.9	0.6	12.5	0.3	1.1	0.0	12.5

Intersection Summary	
HCM 6th Ctrl Delay	34.9
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
9: NYS 25A & Main Street

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	735	84	318	851	91	224
Future Volume (veh/h)	735	84	318	851	91	224
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1945	1870	1945	1870	1870
Adj Flow Rate, veh/h	766	0	331	886	95	233
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	781		546	1204	225	757
Arrive On Green	0.44	0.00	0.29	0.29	0.04	0.40
Sat Flow, veh/h	1781	1648	1870	1648	1781	1870
Grp Volume(v), veh/h	766	0	331	886	95	233
Grp Sat Flow(s),veh/h/ln	1781	1648	1870	1648	1781	1870
Q Serve(g_s), s	37.7	0.0	13.5	26.0	3.2	7.5
Cycle Q Clear(g_c), s	37.7	0.0	13.5	26.0	3.2	7.5
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	781		546	1204	225	757
V/C Ratio(X)	0.98		0.61	0.74	0.42	0.31
Avail Cap(c_a), veh/h	781		546	1204	225	757
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.6	0.0	27.1	6.7	21.0	18.0
Incr Delay (d2), s/veh	27.5	0.0	1.9	2.4	1.3	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.7	0.0	6.2	20.1	1.4	3.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	52.2	0.0	29.0	9.1	22.2	18.3
LnGrp LOS	D		C	A	C	B
Approach Vol, veh/h	766	A	1217			328
Approach Delay, s/veh	52.2		14.5			19.4
Approach LOS	D		B			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	10.0	34.0			44.0	45.0
Change Period (Y+Rc), s	6.0	8.0			8.0	6.0
Max Green Setting (Gmax), s	4.0	26.0			36.0	39.0
Max Q Clear Time (g_c+I1), s	15.2	28.0			9.5	39.7
Green Ext Time (p_c), s	0.0	0.0			0.9	0.0

Intersection Summary	
HCM 6th Ctrl Delay	27.7
HCM 6th LOS	C

Notes

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
10: Stony Brook Road & South Drive

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	683	262	290	356	210	550
Future Volume (veh/h)	683	262	290	356	210	550
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	711	273	302	371	219	573
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	763	679	813	689	178	347
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43
Sat Flow, veh/h	1781	1585	1870	1585	277	799
Grp Volume(v), veh/h	711	273	302	371	792	0
Grp Sat Flow(s),veh/h/ln	1781	1585	1870	1585	1076	0
Q Serve(g_s), s	30.6	9.6	8.8	13.9	26.2	0.0
Cycle Q Clear(g_c), s	30.6	9.6	8.8	13.9	35.0	0.0
Prop In Lane	1.00	1.00		1.00	0.28	
Lane Grp Cap(c), veh/h	763	679	813	689	525	0
V/C Ratio(X)	0.93	0.40	0.37	0.54	1.51	0.00
Avail Cap(c_a), veh/h	841	748	813	689	525	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	21.9	15.9	15.3	16.8	27.3	0.0
Incr Delay (d2), s/veh	16.0	0.4	0.3	0.8	238.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.1	3.3	3.6	4.9	44.9	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	37.8	16.3	15.6	17.6	266.1	0.0
LnGrp LOS	D	B	B	B	F	A
Approach Vol, veh/h	984		673			792
Approach Delay, s/veh	31.9		16.7			266.1
Approach LOS	C		B			F

Timer - Assigned Phs	2			6	8
Phs Duration (G+Y+Rc), s	41.0			41.0	39.5
Change Period (Y+Rc), s	6.0			6.0	5.0
Max Green Setting (Gmax), s	35.0			35.0	38.0
Max Q Clear Time (g_c+I1), s	15.9			37.0	32.6
Green Ext Time (p_c), s	3.1			0.0	1.9

Intersection Summary	
HCM 6th Ctrl Delay	103.4
HCM 6th LOS	F

HCM 6th Signalized Intersection Summary
11: Oxhead Road & Stony Brook Road

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	114	123	512	140	280	923
Future Volume (veh/h)	114	123	512	140	280	923
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1976	1976	1870	1870	1870	1870
Adj Flow Rate, veh/h	120	129	539	147	295	972
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	133	143	1013	276	226	604
Arrive On Green	0.16	0.16	0.72	0.72	0.72	0.72
Sat Flow, veh/h	836	899	1415	386	245	843
Grp Volume(v), veh/h	250	0	0	686	1267	0
Grp Sat Flow(s),veh/h/ln	1742	0	0	1801	1088	0
Q Serve(g_s), s	12.4	0.0	0.0	15.4	47.6	0.0
Cycle Q Clear(g_c), s	12.4	0.0	0.0	15.4	63.0	0.0
Prop In Lane	0.48	0.52		0.21	0.23	
Lane Grp Cap(c), veh/h	277	0	0	1289	829	0
V/C Ratio(X)	0.90	0.00	0.00	0.53	1.53	0.00
Avail Cap(c_a), veh/h	277	0	0	1289	829	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	36.3	0.0	0.0	5.7	20.5	0.0
Incr Delay (d2), s/veh	30.1	0.0	0.0	0.4	243.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.5	0.0	0.0	4.6	72.2	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	66.5	0.0	0.0	6.2	264.0	0.0
LnGrp LOS	E	A	A	A	F	A
Approach Vol, veh/h	250		686			1267
Approach Delay, s/veh	66.5		6.2			264.0
Approach LOS	E		A			F

Timer - Assigned Phs	2			6	8
Phs Duration (G+Y+Rc), s	69.0			69.0	19.0
Change Period (Y+Rc), s	6.0			6.0	5.0
Max Green Setting (Gmax), s	63.0			63.0	14.0
Max Q Clear Time (g_c+I1), s	17.4			65.0	14.4
Green Ext Time (p_c), s	2.6			0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	161.3
HCM 6th LOS	F

HCM 6th Signalized Intersection Summary
12: Hallock Road & Stony Brook Road

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	176	38	46	501	890	206
Future Volume (veh/h)	176	38	46	501	890	206
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	178	38	46	506	899	208
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	241	214	184	1252	984	228
Arrive On Green	0.14	0.14	0.67	0.67	0.67	0.67
Sat Flow, veh/h	1781	1585	509	1870	1469	340
Grp Volume(v), veh/h	178	38	46	506	0	1107
Grp Sat Flow(s),veh/h/ln	1781	1585	509	1870	0	1809
Q Serve(g_s), s	6.4	1.4	5.6	8.2	0.0	34.7
Cycle Q Clear(g_c), s	6.4	1.4	40.3	8.2	0.0	34.7
Prop In Lane	1.00	1.00	1.00			0.19
Lane Grp Cap(c), veh/h	241	214	184	1252	0	1211
V/C Ratio(X)	0.74	0.18	0.25	0.40	0.00	0.91
Avail Cap(c_a), veh/h	241	214	225	1405	0	1359
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.7	25.5	26.5	5.0	0.0	9.4
Incr Delay (d2), s/veh	11.4	0.4	0.7	0.2	0.0	9.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.4	0.5	0.7	2.3	0.0	12.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	39.1	25.9	27.2	5.2	0.0	18.4
LnGrp LOS	D	C	C	A	A	B
Approach Vol, veh/h	216			552	1107	
Approach Delay, s/veh	36.8			7.0	18.4	
Approach LOS	D			A	B	

Timer - Assigned Phs	2		4		6
Phs Duration (G+Y+Rc), s	50.6		16.0		50.6
Change Period (Y+Rc), s	6.0		8.0		6.0
Max Green Setting (Gmax), s	50.0		8.0		50.0
Max Q Clear Time (g_c+I1), s	42.3		8.4		36.7
Green Ext Time (p_c), s	2.3		0.0		7.7

Intersection Summary		
HCM 6th Ctrl Delay		17.2
HCM 6th LOS		B

HCM 6th Signalized Intersection Summary
13: NYS 347 & Stony Brook Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	385	2131	94	121	2299	150	84	152	87	321	234	262
Future Volume (veh/h)	385	2131	94	121	2299	150	84	152	87	321	234	262
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1870	1870	1870	1945	1870	1870	1870
Adj Flow Rate, veh/h	393	2174	96	123	2346	153	86	155	89	328	239	267
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	450	1929	873	146	2592	784	182	219	177	276	324	259
Arrive On Green	0.13	0.54	0.53	0.08	0.51	0.49	0.05	0.12	0.11	0.11	0.17	0.16
Sat Flow, veh/h	3456	3554	1648	1781	5106	1585	1781	1870	1648	1781	1870	1585
Grp Volume(v), veh/h	393	2174	96	123	2346	153	86	155	89	328	239	267
Grp Sat Flow(s),veh/h/ln	1728	1777	1648	1781	1702	1585	1781	1870	1648	1781	1870	1585
Q Serve(g_s), s	17.1	83.0	3.1	10.4	64.0	8.3	6.5	12.2	6.3	17.0	18.5	25.0
Cycle Q Clear(g_c), s	17.1	83.0	3.1	10.4	64.0	8.3	6.5	12.2	6.3	17.0	18.5	25.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	450	1929	873	146	2592	784	182	219	177	276	324	259
V/C Ratio(X)	0.87	1.13	0.11	0.84	0.91	0.20	0.47	0.71	0.50	1.19	0.74	1.03
Avail Cap(c_a), veh/h	565	1929	873	245	2638	798	248	287	237	276	324	259
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	65.3	35.0	8.9	69.2	34.3	21.6	56.8	65.0	42.6	57.0	59.9	64.0
Incr Delay (d2), s/veh	11.9	64.6	0.1	12.3	4.9	0.1	1.9	5.4	2.2	114.9	8.6	64.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	50.3	1.6	5.1	26.0	0.0	3.0	6.2	3.3	11.3	9.6	14.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.1	99.5	8.9	81.5	39.2	21.7	58.7	70.4	44.8	171.9	68.5	128.0
LnGrp LOS	E	F	A	F	D	C	E	E	D	F	E	F
Approach Vol, veh/h		2663			2622			330			834	
Approach Delay, s/veh		92.9			40.2			60.4			128.2	
Approach LOS		F			D			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	22.4	19.6	88.0	14.4	31.0	24.9	82.6
Change Period (Y+Rc), s	6.0	6.0	7.0	* 7	6.0	6.0	5.0	7.0
Max Green Setting (Gmax), s	17.0	22.0	21.0	* 81	14.0	25.0	25.0	77.0
Max Q Clear Time (g_c+I1), s	19.0	14.2	12.4	85.0	8.5	27.0	19.1	66.0
Green Ext Time (p_c), s	0.0	0.6	0.2	0.0	0.1	0.0	0.9	8.6

Intersection Summary	
HCM 6th Ctrl Delay	74.4
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

HCM 6th TWSC
14: Mills Pond Road & Site Access 1

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	1	289	1	0	295
Future Vol, veh/h	2	1	289	1	0	295
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	1	314	1	0	321

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	636	315	0	0	315	0
Stage 1	315	-	-	-	-	-
Stage 2	321	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	442	725	-	-	1245	-
Stage 1	740	-	-	-	-	-
Stage 2	735	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	442	725	-	-	1245	-
Mov Cap-2 Maneuver	442	-	-	-	-	-
Stage 1	740	-	-	-	-	-
Stage 2	735	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.1	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	508	1245	-
HCM Lane V/C Ratio	-	-	0.006	-	-
HCM Control Delay (s)	-	-	12.1	0	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

HCM 6th TWSC
15: Mills Pond Road & Site Access 2

Intersection	
Int Delay, s/veh	9.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	155	161	176	60	115	123
Future Vol, veh/h	155	161	176	60	115	123
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	168	175	191	65	125	134

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	608	224	0	0	256	0
Stage 1	224	-	-	-	-	-
Stage 2	384	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	459	815	-	-	1309	-
Stage 1	813	-	-	-	-	-
Stage 2	688	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	412	815	-	-	1309	-
Mov Cap-2 Maneuver	412	-	-	-	-	-
Stage 1	729	-	-	-	-	-
Stage 2	688	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	21.7	0	3.9
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	551	1309	-
HCM Lane V/C Ratio	-	-	0.623	0.095	-
HCM Control Delay (s)	-	-	21.7	8	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	4.3	0.3	-

HCM 6th TWSC
16: Site Access & NYS Route 25A

Intersection	
Int Delay, s/veh	2.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1299	69	0	1120	0	164
Future Vol, veh/h	1299	69	0	1120	0	164
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1412	75	0	1217	0	178

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	1450
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	5
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	263
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	263
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	43.3
HCM LOS			E

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	263	-	-	-
HCM Lane V/C Ratio	0.678	-	-	-
HCM Control Delay (s)	43.3	-	-	-
HCM Lane LOS	E	-	-	-
HCM 95th %tile Q(veh)	4.4	-	-	-

HCM 6th TWSC
17: Stony Brook Road & Development Drive

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	50	126	29	515	557	26
Future Vol, veh/h	50	126	29	515	557	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	260	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	55	138	32	566	612	29

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1257	627	641	0	-	0
Stage 1	627	-	-	-	-	-
Stage 2	630	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	189	484	943	-	-	-
Stage 1	532	-	-	-	-	-
Stage 2	531	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	180	484	943	-	-	-
Mov Cap-2 Maneuver	180	-	-	-	-	-
Stage 1	506	-	-	-	-	-
Stage 2	531	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	20.6	0.5	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	943	-	180	484	-	-
HCM Lane V/C Ratio	0.034	-	0.305	0.286	-	-
HCM Control Delay (s)	9	0	33.6	15.4	-	-
HCM Lane LOS	A	A	D	C	-	-
HCM 95th %tile Q(veh)	0.1	-	1.2	1.2	-	-

HCM 6th TWSC
21: Stony Brook Road & Stony Brook Rd WB Right

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	WBT	WBR	SEL	SER
Lane Configurations		↑	↱		↰	
Traffic Vol, veh/h	0	490	314	184	156	0
Future Vol, veh/h	0	490	314	184	156	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	516	331	194	164	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	944	-
Stage 1	-	-	-	-	428	-
Stage 2	-	-	-	-	516	-
Critical Hdwy	-	-	-	-	6.42	-
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	-	-	3.518	-
Pot Cap-1 Maneuver	0	-	-	-	291	0
Stage 1	0	-	-	-	657	0
Stage 2	0	-	-	-	599	0
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	291	-
Mov Cap-2 Maneuver	-	-	-	-	291	-
Stage 1	-	-	-	-	657	-
Stage 2	-	-	-	-	599	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	32.3
HCM LOS			D

Minor Lane/Major Mvmt	EBT	WBT	WBR	SELn1
Capacity (veh/h)	-	-	-	291
HCM Lane V/C Ratio	-	-	-	0.564
HCM Control Delay (s)	-	-	-	32.3
HCM Lane LOS	-	-	-	D
HCM 95th %tile Q(veh)	-	-	-	3.2

HCM 6th TWSC
22: 25A & Stony Brook Rd WB Right

Intersection	
Int Delay, s/veh	4.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	184	969	0	156	820
Future Vol, veh/h	0	184	969	0	156	820
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	120	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	194	1020	0	164	863

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	1020	0	-	1020	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.22	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	0	287	-	0	680	-
Stage 1	0	-	-	0	-	-
Stage 2	0	-	-	0	-	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	-	287	-	-	680	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	40.1	0	1.9
HCM LOS	E		

Minor Lane/Major Mvmt	NBT	WBLn1	SBL	SBT
Capacity (veh/h)	-	287	680	-
HCM Lane V/C Ratio	-	0.675	0.241	-
HCM Control Delay (s)	-	40.1	12	-
HCM Lane LOS	-	E	B	-
HCM 95th %tile Q(veh)	-	4.5	0.9	-

HCM 6th Signalized Intersection Summary
1: Mills Pond Road & NYS Route 25A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	692	57	211	533	67	145
Future Volume (veh/h)	692	57	211	533	67	145
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1885	1885	1900	1900
Adj Flow Rate, veh/h	706	58	215	544	68	148
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	1	1	0	0
Cap, veh/h	1072	908	481	1382	121	231
Arrive On Green	0.57	0.57	0.08	0.73	0.07	0.07
Sat Flow, veh/h	1870	1585	1795	1885	1810	1610
Grp Volume(v), veh/h	706	58	215	544	68	148
Grp Sat Flow(s),veh/h/ln	1870	1585	1795	1885	1810	1610
Q Serve(g_s), s	15.5	1.0	2.6	6.5	2.2	4.0
Cycle Q Clear(g_c), s	15.5	1.0	2.6	6.5	2.2	4.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1072	908	481	1382	121	231
V/C Ratio(X)	0.66	0.06	0.45	0.39	0.56	0.64
Avail Cap(c_a), veh/h	1072	908	552	1382	121	231
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.8	5.7	7.1	3.0	27.2	24.2
Incr Delay (d2), s/veh	3.2	0.1	0.7	0.8	5.9	5.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	0.2	0.5	1.0	1.1	4.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	12.0	5.8	7.7	3.8	33.1	30.0
LnGrp LOS	B	A	A	A	C	C
Approach Vol, veh/h	764			759	216	
Approach Delay, s/veh	11.5			4.9	31.0	
Approach LOS	B			A	C	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	9.6	40.4		10.0		50.0
Change Period (Y+Rc), s	5.0	6.0		6.0		6.0
Max Green Setting (Gmax), s	7.0	32.0		4.0		44.0
Max Q Clear Time (g_c+I1), s	4.6	17.5		6.0		0.0
Green Ext Time (p_c), s	0.2	2.9		0.0		0.0

Intersection Summary	
HCM 6th Ctrl Delay	11.1
HCM 6th LOS	B

HCM 6th TWSC
2: 25A & Stony Brook Road

Intersection	
Int Delay, s/veh	17.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	201	0	567	256	0	537
Future Vol, veh/h	201	0	567	256	0	537
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	Free	-	Free
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	214	0	603	272	0	571

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1174	-	0	-	-	-
Stage 1	603	-	-	-	-	-
Stage 2	571	-	-	-	-	-
Critical Hdwy	6.42	-	-	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	-	-	-	-	-
Pot Cap-1 Maneuver	~ 212	0	-	0	0	-
Stage 1	546	0	-	0	0	-
Stage 2	565	0	-	0	0	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	~ 212	-	-	-	-	-
Mov Cap-2 Maneuver	~ 212	-	-	-	-	-
Stage 1	546	-	-	-	-	-
Stage 2	565	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	111.7	0	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	WBLn1	SBT
Capacity (veh/h)	-	212	-
HCM Lane V/C Ratio	-	1.009	-
HCM Control Delay (s)	-	111.7	-
HCM Lane LOS	-	F	-
HCM 95th %tile Q(veh)	-	9.1	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

HCM 6th TWSC
3: Lake Avenue/Fire Dept & Route 25A

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔		↰	↑			↑	↱		↔	
Traffic Vol, veh/h	0	622	7	196	547	0	0	2	234	0	0	0
Future Vol, veh/h	0	622	7	196	547	0	0	2	234	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	250	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	662	7	209	582	0	0	2	249	0	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	582	0	0	669	0	0	-	1666	666	1791	1669	582
Stage 1	-	-	-	-	-	-	-	666	-	1000	1000	-
Stage 2	-	-	-	-	-	-	-	1000	-	791	669	-
Critical Hdwy	4.12	-	-	4.12	-	-	-	5	5	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	-	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	-	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	-	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	992	-	-	921	-	0	0	195	576	63	96	513
Stage 1	-	-	-	-	-	0	0	457	-	293	321	-
Stage 2	-	-	-	-	-	0	0	321	-	383	456	-
Platoon blocked, %		-	-		-							
Mov Cap-1 Maneuver	992	-	-	921	-	-	-	151	576	29	74	513
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	151	-	29	74	-
Stage 1	-	-	-	-	-	-	-	457	-	293	248	-
Stage 2	-	-	-	-	-	-	-	248	-	216	456	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	2.7	16	0
HCM LOS			C	A

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	SBLn1
Capacity (veh/h)	151	576	992	-	-	921	-	-
HCM Lane V/C Ratio	0.014	0.432	-	-	-	0.226	-	-
HCM Control Delay (s)	29.2	15.9	0	-	-	10	-	0
HCM Lane LOS	D	C	A	-	-	B	-	A
HCM 95th %tile Q(veh)	0	2.2	0	-	-	0.9	-	-

HCM 6th Signalized Intersection Summary
4: Route 25A & Moriches Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	30	123	17	187	139	0	12	571	149	0	513	25
Future Volume (veh/h)	30	123	17	187	139	0	12	571	149	0	513	25
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	0	1870	1870	1870	0	1870	1870
Adj Flow Rate, veh/h	30	124	17	189	140	0	12	577	151	0	518	25
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	0	2	2	2	0	2	2
Cap, veh/h	480	471	65	478	548	0	100	828	711	0	794	38
Arrive On Green	0.29	0.29	0.27	0.29	0.29	0.00	0.45	0.45	0.45	0.00	0.45	0.45
Sat Flow, veh/h	1249	1610	221	1248	1870	0	11	1846	1585	0	1770	85
Grp Volume(v), veh/h	30	0	141	189	140	0	589	0	151	0	0	543
Grp Sat Flow(s),veh/h/ln	1249	0	1831	1248	1870	0	1857	0	1585	0	0	1855
Q Serve(g_s), s	0.7	0.0	2.3	5.3	2.2	0.0	0.0	0.0	2.2	0.0	0.0	8.8
Cycle Q Clear(g_c), s	2.9	0.0	2.3	7.6	2.2	0.0	9.8	0.0	2.2	0.0	0.0	8.8
Prop In Lane	1.00		0.12	1.00		0.00	0.02		1.00	0.00		0.05
Lane Grp Cap(c), veh/h	480	0	536	478	548	0	928	0	711	0	0	832
V/C Ratio(X)	0.06	0.00	0.26	0.40	0.26	0.00	0.63	0.00	0.21	0.00	0.00	0.65
Avail Cap(c_a), veh/h	793	0	994	790	1016	0	2660	0	2214	0	0	2591
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	11.6	0.0	10.5	13.4	10.5	0.0	8.6	0.0	6.5	0.0	0.0	8.3
Incr Delay (d2), s/veh	0.0	0.0	0.2	0.4	0.2	0.0	1.0	0.0	0.2	0.0	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.7	1.1	0.7	0.0	2.3	0.0	0.4	0.0	0.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	11.6	0.0	10.7	13.8	10.6	0.0	9.6	0.0	6.7	0.0	0.0	9.6
LnGrp LOS	B	A	B	B	B	A	A	A	A	A	A	A
Approach Vol, veh/h		171			329			740			543	
Approach Delay, s/veh		10.9			12.4			9.0			9.6	
Approach LOS		B			B			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		23.3		15.3		23.3		15.3				
Change Period (Y+Rc), s		6.0		5.0		6.0		5.0				
Max Green Setting (Gmax), s		54.0		20.0		54.0		20.0				
Max Q Clear Time (g_c+I1), s		11.8		4.9		10.8		9.6				
Green Ext Time (p_c), s		5.5		0.4		3.8		0.7				

Intersection Summary												
HCM 6th Ctrl Delay			10.0									
HCM 6th LOS			A									

HCM 6th Signalized Intersection Summary
5: Lake Avenue & Moriches Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	110	138	27	176	52	128	180	17	37	173	0
Future Volume (veh/h)	0	110	138	27	176	52	128	180	17	37	173	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1945	1945	1945	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	122	0	30	196	58	142	200	19	41	192	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	0	581		154	540	512	686	795	76	661	885	0
Arrive On Green	0.00	0.31	0.00	0.31	0.31	0.31	0.47	0.47	0.41	0.47	0.47	0.00
Sat Flow, veh/h	0	1870	1585	141	1738	1648	1191	1682	160	1162	1870	0
Grp Volume(v), veh/h	0	122	0	226	0	58	142	0	219	41	192	0
Grp Sat Flow(s),veh/h/ln	0	1870	1585	1879	0	1648	1191	0	1842	1162	1870	0
Q Serve(g_s), s	0.0	1.8	0.0	0.0	0.0	0.9	2.9	0.0	2.7	0.8	2.2	0.0
Cycle Q Clear(g_c), s	0.0	1.8	0.0	3.4	0.0	0.9	5.2	0.0	2.7	3.5	2.2	0.0
Prop In Lane	0.00		1.00	0.13		1.00	1.00		0.09	1.00		0.00
Lane Grp Cap(c), veh/h	0	581		694	0	512	686	0	871	661	885	0
V/C Ratio(X)	0.00	0.21		0.33	0.00	0.11	0.21	0.00	0.25	0.06	0.22	0.00
Avail Cap(c_a), veh/h	0	1466		1560	0	1292	1185	0	1643	1148	1668	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	9.4	0.0	9.9	0.0	9.1	7.2	0.0	5.9	6.9	5.7	0.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.3	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.5	0.0	1.0	0.0	0.2	0.5	0.0	0.7	0.1	0.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	9.6	0.0	10.2	0.0	9.2	7.4	0.0	6.1	6.9	5.8	0.0
LnGrp LOS	A	A		B	A	A	A	A	A	A	A	A
Approach Vol, veh/h		122	A		284			361			233	
Approach Delay, s/veh		9.6			10.0			6.6			6.0	
Approach LOS		A			B			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	21.5	15.5	21.5	15.5
Change Period (Y+Rc), s	* 6.5	5.5	* 6.5	5.5
Max Green Setting (Gmax), s	* 31	27.5	* 31	27.5
Max Q Clear Time (g_c+I1), s	7.2	3.8	5.5	5.4
Green Ext Time (p_c), s	1.4	0.3	0.8	0.9

Intersection Summary	
HCM 6th Ctrl Delay	7.8
HCM 6th LOS	A

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th AWSC
6: Moriches Road & Evon Lane/Mills Pond Road

Intersection	
Intersection Delay, s/veh	15.6
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	24	9	231	14	8	12	207	213	8	200	2
Future Vol, veh/h	2	24	9	231	14	8	12	207	213	8	200	2
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	2	26	10	248	15	9	13	223	229	9	215	2
Number of Lanes	0	1	0	0	1	1	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	2	1
HCM Control Delay	10	16.2	17.4	12
HCM LOS	A	C	C	B

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	6%	94%	0%	4%
Vol Thru, %	48%	69%	6%	0%	95%
Vol Right, %	49%	26%	0%	100%	1%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	432	35	245	8	210
LT Vol	12	2	231	0	8
Through Vol	207	24	14	0	200
RT Vol	213	9	0	8	2
Lane Flow Rate	465	38	263	9	226
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.657	0.067	0.504	0.014	0.358
Departure Headway (Hd)	5.089	6.412	6.887	5.695	5.712
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	706	555	522	626	628
Service Time	3.141	4.497	4.64	3.448	3.775
HCM Lane V/C Ratio	0.659	0.068	0.504	0.014	0.36
HCM Control Delay	17.4	10	16.5	8.5	12
HCM Lane LOS	C	A	C	A	B
HCM 95th-tile Q	4.9	0.2	2.8	0	1.6

HCM 6th Signalized Intersection Summary
7: Woodlawn Avenue/Gated & Moriches Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	0	416	0	0	0	320	447	0	0	471	39
Future Volume (veh/h)	38	0	416	0	0	0	320	447	0	0	471	39
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1870	0	1870				1870	1945	0	0	1870	1870
Adj Flow Rate, veh/h	39	0	424				327	456	0	0	481	40
Peak Hour Factor	0.98	0.98	0.98				0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	0	2				2	2	0	0	2	2
Cap, veh/h	255	0	508				537	1250	0	0	609	51
Arrive On Green	0.14	0.00	0.14				0.18	0.64	0.00	0.00	0.36	0.36
Sat Flow, veh/h	1781	0	1585				1781	1945	0	0	1703	142
Grp Volume(v), veh/h	39	0	424				327	456	0	0	0	521
Grp Sat Flow(s),veh/h/ln	1781	0	1585				1781	1945	0	0	0	1845
Q Serve(g_s), s	1.1	0.0	8.0				5.4	6.1	0.0	0.0	0.0	14.1
Cycle Q Clear(g_c), s	1.1	0.0	8.0				5.4	6.1	0.0	0.0	0.0	14.1
Prop In Lane	1.00		1.00				1.00		0.00	0.00		0.08
Lane Grp Cap(c), veh/h	255	0	508				537	1250	0	0	0	660
V/C Ratio(X)	0.15	0.00	0.83				0.61	0.36	0.00	0.00	0.00	0.79
Avail Cap(c_a), veh/h	255	0	508				539	2017	0	0	0	1385
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				1.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d), s/veh	21.0	0.0	17.6				9.8	4.7	0.0	0.0	0.0	16.1
Incr Delay (d2), s/veh	0.3	0.0	11.4				2.0	0.2	0.0	0.0	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	1.6				1.8	1.6	0.0	0.0	0.0	5.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	21.3	0.0	29.1				11.8	4.8	0.0	0.0	0.0	18.3
LnGrp LOS	C	A	C				B	A	A	A	A	B
Approach Vol, veh/h		463						783			521	
Approach Delay, s/veh		28.4						7.7			18.3	
Approach LOS		C						A			B	

Timer - Assigned Phs	2	4	5	6
Phs Duration (G+Y+Rc), s	41.9	14.0	15.9	26.0
Change Period (Y+Rc), s	6.0	6.0	6.0	6.0
Max Green Setting (Gmax), s	58.0	8.0	10.0	42.0
Max Q Clear Time (g_c+I1), s	8.1	10.0	7.4	16.1
Green Ext Time (p_c), s	2.0	0.0	0.4	2.3

Intersection Summary	
HCM 6th Ctrl Delay	16.3
HCM 6th LOS	B

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	241	1329	172	357	1337	337	154	161	165	341	245	156
Future Volume (veh/h)	241	1329	172	357	1337	337	154	161	165	341	245	156
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	259	1429	185	384	1438	0	166	173	177	367	263	168
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	278	1999	589	458	1878		243	235	409	451	302	503
Arrive On Green	0.16	0.39	0.37	0.13	0.37	0.00	0.07	0.13	0.13	0.13	0.16	0.16
Sat Flow, veh/h	1781	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	259	1429	185	384	1438	0	166	173	177	367	263	168
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	14.7	24.2	5.6	11.1	25.4	0.0	4.8	9.1	9.5	10.6	14.0	5.1
Cycle Q Clear(g_c), s	14.7	24.2	5.6	11.1	25.4	0.0	4.8	9.1	9.5	10.6	14.0	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	278	1999	589	458	1878		243	235	409	451	302	503
V/C Ratio(X)	0.93	0.71	0.31	0.84	0.77		0.68	0.74	0.43	0.81	0.87	0.33
Avail Cap(c_a), veh/h	278	3243	976	540	3258		608	338	497	608	338	534
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.6	26.3	10.0	43.3	28.5	0.0	46.5	43.1	31.7	43.3	41.9	11.1
Incr Delay (d2), s/veh	35.8	0.5	0.3	9.8	0.7	0.0	3.4	4.9	0.7	6.1	19.7	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.9	9.0	2.8	5.1	9.6	0.0	2.1	4.5	3.5	4.8	8.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.5	26.8	10.3	53.1	29.1	0.0	49.8	48.0	32.4	49.4	61.6	11.5
LnGrp LOS	E	C	B	D	C		D	D	C	D	E	B
Approach Vol, veh/h		1873			1822	A		516			798	
Approach Delay, s/veh		32.3			34.2			43.2			45.4	
Approach LOS		C			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.4	20.3	18.6	45.1	14.7	24.0	21.0	42.6
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	13.0	18.5	16.0	63.0	18.0	* 19	16.0	* 63
Max Q Clear Time (g_c+I1), s	12.6	11.5	13.1	26.2	6.8	16.0	16.7	27.4
Green Ext Time (p_c), s	0.8	0.8	0.5	9.5	0.5	0.5	0.0	8.3

Intersection Summary	
HCM 6th Ctrl Delay	36.2
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
9: NYS 25A & Main Street

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	461	113	252	491	91	258
Future Volume (veh/h)	461	113	252	491	91	258
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1945	1870	1945	1870	1870
Adj Flow Rate, veh/h	475	0	260	506	94	266
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	570		509	975	333	809
Arrive On Green	0.32	0.00	0.27	0.27	0.05	0.43
Sat Flow, veh/h	1781	1648	1870	1648	1781	1870
Grp Volume(v), veh/h	475	0	260	506	94	266
Grp Sat Flow(s),veh/h/ln	1781	1648	1870	1648	1781	1870
Q Serve(g_s), s	14.0	0.0	6.6	10.2	2.0	5.3
Cycle Q Clear(g_c), s	14.0	0.0	6.6	10.2	2.0	5.3
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	570		509	975	333	809
V/C Ratio(X)	0.83		0.51	0.52	0.28	0.33
Avail Cap(c_a), veh/h	1228		860	1285	362	1190
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.8	0.0	17.4	6.8	12.9	10.6
Incr Delay (d2), s/veh	3.3	0.0	0.8	0.4	0.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	0.0	2.7	6.4	0.7	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	21.1	0.0	18.2	7.2	13.4	10.8
LnGrp LOS	C		B	A	B	B
Approach Vol, veh/h	475	A	766			360
Approach Delay, s/veh	21.1		11.0			11.5
Approach LOS	C		B			B

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.1	23.4				32.5	24.1
Change Period (Y+Rc), s	6.0	8.0				8.0	6.0
Max Green Setting (Gmax), s	4.0	26.0				36.0	39.0
Max Q Clear Time (g_c+I1), s	4.0	12.2				7.3	16.0
Green Ext Time (p_c), s	0.0	3.2				1.0	2.1

Intersection Summary	
HCM 6th Ctrl Delay	14.1
HCM 6th LOS	B

Notes

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
10: Stony Brook Road & South Drive

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	171	66	307	184	75	361
Future Volume (veh/h)	171	66	307	184	75	361
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	180	69	323	194	79	380
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	685	610	742	629	157	575
Arrive On Green	0.38	0.38	0.40	0.40	0.40	0.40
Sat Flow, veh/h	1781	1585	1870	1585	184	1448
Grp Volume(v), veh/h	180	69	323	194	459	0
Grp Sat Flow(s),veh/h/ln	1781	1585	1870	1585	1633	0
Q Serve(g_s), s	3.5	1.4	6.3	4.2	5.1	0.0
Cycle Q Clear(g_c), s	3.5	1.4	6.3	4.2	11.4	0.0
Prop In Lane	1.00	1.00		1.00	0.17	
Lane Grp Cap(c), veh/h	685	610	742	629	732	0
V/C Ratio(X)	0.26	0.11	0.44	0.31	0.63	0.00
Avail Cap(c_a), veh/h	1131	1007	1299	1101	1199	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	10.6	10.0	11.1	10.4	12.4	0.0
Incr Delay (d2), s/veh	0.2	0.1	0.4	0.3	0.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.4	2.2	1.3	3.6	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	10.8	10.1	11.5	10.7	13.3	0.0
LnGrp LOS	B	B	B	B	B	A
Approach Vol, veh/h	249		517			459
Approach Delay, s/veh	10.6		11.2			13.3
Approach LOS	B		B			B

Timer - Assigned Phs	2			6	8
Phs Duration (G+Y+Rc), s	26.0			26.0	24.4
Change Period (Y+Rc), s	6.0			6.0	5.0
Max Green Setting (Gmax), s	35.0			35.0	32.0
Max Q Clear Time (g_c+I1), s	8.3			13.4	5.5
Green Ext Time (p_c), s	2.7			3.2	0.7

Intersection Summary	
HCM 6th Ctrl Delay	11.9
HCM 6th LOS	B

HCM 6th Signalized Intersection Summary
11: Oxhead Road & Stony Brook Road

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	71	144	354	87	153	386
Future Volume (veh/h)	71	144	354	87	153	386
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1976	1976	1870	1870	1870	1870
Adj Flow Rate, veh/h	76	155	381	94	165	415
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	127	258	776	192	252	554
Arrive On Green	0.23	0.23	0.54	0.54	0.54	0.54
Sat Flow, veh/h	561	1143	1449	357	284	1034
Grp Volume(v), veh/h	232	0	0	475	580	0
Grp Sat Flow(s),veh/h/ln	1711	0	0	1806	1318	0
Q Serve(g_s), s	5.6	0.0	0.0	7.7	10.3	0.0
Cycle Q Clear(g_c), s	5.6	0.0	0.0	7.7	18.0	0.0
Prop In Lane	0.33	0.67		0.20	0.28	
Lane Grp Cap(c), veh/h	387	0	0	968	807	0
V/C Ratio(X)	0.60	0.00	0.00	0.49	0.72	0.00
Avail Cap(c_a), veh/h	741	0	0	1760	1440	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	16.0	0.0	0.0	6.8	9.3	0.0
Incr Delay (d2), s/veh	1.5	0.0	0.0	0.4	1.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	0.0	2.1	3.8	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	17.5	0.0	0.0	7.1	10.5	0.0
LnGrp LOS	B	A	A	A	B	A
Approach Vol, veh/h	232		475			580
Approach Delay, s/veh	17.5		7.1			10.5
Approach LOS	B		A			B

Timer - Assigned Phs	2			6	8
Phs Duration (G+Y+Rc), s	30.7			30.7	15.4
Change Period (Y+Rc), s	6.0			6.0	5.0
Max Green Setting (Gmax), s	45.0			45.0	20.0
Max Q Clear Time (g_c+I1), s	9.7			20.0	7.6
Green Ext Time (p_c), s	1.6			4.7	0.6

Intersection Summary	
HCM 6th Ctrl Delay	10.5
HCM 6th LOS	B

HCM 6th Signalized Intersection Summary
12: Hallock Road & Stony Brook Road

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	127	32	27	351	393	103
Future Volume (veh/h)	127	32	27	351	393	103
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	130	33	28	358	401	105
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	338	301	438	918	702	184
Arrive On Green	0.19	0.19	0.49	0.49	0.49	0.49
Sat Flow, veh/h	1781	1585	893	1870	1429	374
Grp Volume(v), veh/h	130	33	28	358	0	506
Grp Sat Flow(s),veh/h/ln	1781	1585	893	1870	0	1803
Q Serve(g_s), s	2.6	0.7	0.9	4.9	0.0	8.1
Cycle Q Clear(g_c), s	2.6	0.7	9.0	4.9	0.0	8.1
Prop In Lane	1.00	1.00	1.00			0.21
Lane Grp Cap(c), veh/h	338	301	438	918	0	885
V/C Ratio(X)	0.38	0.11	0.06	0.39	0.00	0.57
Avail Cap(c_a), veh/h	394	350	1096	2296	0	2213
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	14.4	13.7	10.5	6.5	0.0	7.3
Incr Delay (d2), s/veh	0.7	0.2	0.1	0.3	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.2	0.2	1.3	0.0	2.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	15.1	13.8	10.6	6.8	0.0	7.9
LnGrp LOS	B	B	B	A	A	A
Approach Vol, veh/h	163			386	506	
Approach Delay, s/veh	14.9			7.1	7.9	
Approach LOS	B			A	A	

Timer - Assigned Phs	2		4		6
Phs Duration (G+Y+Rc), s	26.0		14.7		26.0
Change Period (Y+Rc), s	6.0		8.0		6.0
Max Green Setting (Gmax), s	50.0		8.0		50.0
Max Q Clear Time (g_c+I1), s	11.0		4.6		10.1
Green Ext Time (p_c), s	2.6		0.1		3.8

Intersection Summary	
HCM 6th Ctrl Delay	8.7
HCM 6th LOS	A

HCM 6th Signalized Intersection Summary
13: NYS 347 & Stony Brook Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	406	1901	128	106	2398	146	319	121	249	120	127	71
Future Volume (veh/h)	406	1901	128	106	2398	146	319	121	249	120	127	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1870	1870	1870	1945	1870	1870	1870
Adj Flow Rate, veh/h	419	1960	132	109	2472	151	329	125	257	124	131	73
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	481	1873	844	141	2461	740	302	307	252	247	180	135
Arrive On Green	0.14	0.53	0.51	0.08	0.48	0.47	0.13	0.16	0.15	0.06	0.10	0.09
Sat Flow, veh/h	3456	3554	1648	1781	5106	1585	1781	1870	1648	1781	1870	1585
Grp Volume(v), veh/h	419	1960	132	109	2472	151	329	125	257	124	131	73
Grp Sat Flow(s),veh/h/ln	1728	1777	1648	1781	1702	1585	1781	1870	1648	1781	1870	1585
Q Serve(g_s), s	15.8	70.0	3.0	8.0	64.0	7.5	17.0	7.9	16.1	8.0	9.0	5.9
Cycle Q Clear(g_c), s	15.8	70.0	3.0	8.0	64.0	7.5	17.0	7.9	16.1	8.0	9.0	5.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	481	1873	844	141	2461	740	302	307	252	247	180	135
V/C Ratio(X)	0.87	1.05	0.16	0.77	1.00	0.20	1.09	0.41	1.02	0.50	0.73	0.54
Avail Cap(c_a), veh/h	572	1873	844	215	2461	740	302	359	298	247	232	179
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	56.0	31.4	5.0	60.0	34.4	20.9	49.9	49.7	35.2	52.1	58.3	58.3
Incr Delay (d2), s/veh	12.1	34.1	0.1	9.2	19.2	0.1	77.4	0.9	55.4	1.6	7.9	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.5	35.9	2.0	3.9	28.6	2.7	8.4	3.8	10.1	3.9	4.7	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	68.0	65.5	5.0	69.1	53.6	21.0	127.3	50.6	90.6	53.8	66.2	61.6
LnGrp LOS	E	F	A	E	F	C	F	D	F	D	E	E
Approach Vol, veh/h		2511			2732			711			328	
Approach Delay, s/veh		62.8			52.5			100.6			60.5	
Approach LOS		E			D			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	26.3	17.5	75.0	23.0	17.3	23.5	69.0
Change Period (Y+Rc), s	6.0	6.0	7.0	* 7	6.0	6.0	5.0	7.0
Max Green Setting (Gmax), s	8.0	24.0	16.0	* 68	17.0	15.0	22.0	62.0
Max Q Clear Time (g_c+I1), s	10.0	18.1	10.0	72.0	19.0	11.0	17.8	66.0
Green Ext Time (p_c), s	0.0	0.9	0.1	0.0	0.0	0.3	0.7	0.0

Intersection Summary	
HCM 6th Ctrl Delay	62.4
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

HCM 6th TWSC
14: Mills Pond Road & Site Access 1

Intersection	
Int Delay, s/veh	1.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	9	21	192	14	29	244
Future Vol, veh/h	9	21	192	14	29	244
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	23	209	15	32	265

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	546	217	0	0	224	0
Stage 1	217	-	-	-	-	-
Stage 2	329	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	499	823	-	-	1345	-
Stage 1	819	-	-	-	-	-
Stage 2	729	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	485	823	-	-	1345	-
Mov Cap-2 Maneuver	485	-	-	-	-	-
Stage 1	796	-	-	-	-	-
Stage 2	729	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10.6	0	0.8
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	681	1345	-
HCM Lane V/C Ratio	-	-	0.048	0.023	-
HCM Control Delay (s)	-	-	10.6	7.7	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0.1	-

HCM 6th TWSC
15: Mills Pond Road & Site Access 2

Intersection	
Int Delay, s/veh	3.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	52	57	147	32	98	155
Future Vol, veh/h	52	57	147	32	98	155
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	57	62	160	35	107	168

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	560	178	0	0	195	0
Stage 1	178	-	-	-	-	-
Stage 2	382	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	489	865	-	-	1378	-
Stage 1	853	-	-	-	-	-
Stage 2	690	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	447	865	-	-	1378	-
Mov Cap-2 Maneuver	447	-	-	-	-	-
Stage 1	780	-	-	-	-	-
Stage 2	690	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.5	0	3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	598	1378	-
HCM Lane V/C Ratio	-	-	0.198	0.077	-
HCM Control Delay (s)	-	-	12.5	7.8	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.7	0.3	-

HCM 6th TWSC
16: Site Access & NYS Route 25A

Intersection	
Int Delay, s/veh	0.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	768	69	0	744	0	61
Future Vol, veh/h	768	69	0	744	0	61
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	835	75	0	809	0	66

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	873
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	349
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	349
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	17.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	349	-	-	-
HCM Lane V/C Ratio	0.19	-	-	-
HCM Control Delay (s)	17.7	-	-	-
HCM Lane LOS	C	-	-	-
HCM 95th %tile Q(veh)	0.7	-	-	-

HCM 6th TWSC
21: Stony Brook Road & Stony Brook Rd WB Right

Intersection	
Int Delay, s/veh	3.5

Movement	EBL	EBT	WBT	WBR	SEL	SER
Lane Configurations		↑	↱		↰	
Traffic Vol, veh/h	0	256	201	184	164	0
Future Vol, veh/h	0	256	201	184	164	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	272	214	196	174	0

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	584	-
Stage 1	-	-	-	-	312	-
Stage 2	-	-	-	-	272	-
Critical Hdwy	-	-	-	-	6.42	-
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	-	-	3.518	-
Pot Cap-1 Maneuver	0	-	-	-	474	0
Stage 1	0	-	-	-	742	0
Stage 2	0	-	-	-	774	0
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	474	-
Mov Cap-2 Maneuver	-	-	-	-	474	-
Stage 1	-	-	-	-	742	-
Stage 2	-	-	-	-	774	-

Approach	EB	WB	SE
HCM Control Delay, s	0	0	17
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SELn1
Capacity (veh/h)	-	-	-	474
HCM Lane V/C Ratio	-	-	-	0.368
HCM Control Delay (s)	-	-	-	17
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	1.7

HCM 6th TWSC
22: 25A & Stony Brook Rd WB Right

Intersection	
Int Delay, s/veh	3.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	184	567	0	164	537
Future Vol, veh/h	0	184	567	0	164	537
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	120	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	196	603	0	174	571

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	603	0	-	603	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.22	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	0	499	-	0	975	-
Stage 1	0	-	-	0	-	-
Stage 2	0	-	-	0	-	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	-	499	-	-	975	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.8	0	2.2
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	WBLn1	SBL	SBT
Capacity (veh/h)	-	499	975	-
HCM Lane V/C Ratio	-	0.392	0.179	-
HCM Control Delay (s)	-	16.8	9.5	-
HCM Lane LOS	-	C	A	-
HCM 95th %tile Q(veh)	-	1.8	0.7	-

MITIGATED BUILD

Selected Intersections Only:

1. Route 25A at Stony Brook Road
2. Route 347 at Moriches Road
3. Stony Brook Road at South Drive
4. Stony Brook Road at Oxhead Road
5. Stony Brook Road at Route 347

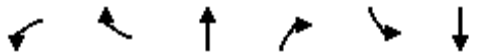
HCM 6th Roundabout
20: Route 25A & Stony Brook Road

Intersection	
Intersection Delay, s/veh	11.8
Intersection LOS	B

Approach	WB	NB	SB
Entry Lanes	2	2	2
Conflicting Circle Lanes	2	2	2
Adj Approach Flow, veh/h	382	1129	986
Demand Flow Rate, veh/h	389	1152	1005
Vehicles Circulating, veh/h	699	115	274
Vehicles Exiting, veh/h	568	1164	814
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	9.1	8.4	16.7
Approach LOS	A	A	C

Lane	Left	Right	Left	Right	Left	Right
Designated Moves	L	TR	LT	R	L	TR
Assumed Moves	L	TR	LT	R	L	TR
RT Channelized						
Lane Util	0.704	0.296	0.607	0.393	0.114	0.886
Follow-Up Headway, s	2.667	2.535	2.667	2.535	2.667	2.535
Critical Headway, s	4.645	4.328	4.645	4.328	4.645	4.328
Entry Flow, veh/h	274	115	699	453	115	890
Cap Entry Lane, veh/h	710	784	1214	1288	1049	1125
Entry HV Adj Factor	0.982	0.983	0.980	0.980	0.983	0.980
Flow Entry, veh/h	269	113	685	444	113	873
Cap Entry, veh/h	697	770	1191	1262	1031	1103
V/C Ratio	0.386	0.147	0.576	0.352	0.110	0.791
Control Delay, s/veh	10.3	6.2	9.9	6.2	4.5	18.3
LOS	B	A	A	A	A	C
95th %tile Queue, veh	2	1	4	2	0	9

HCM 6th Signalized Intersection Summary
2: 25A & Stony Brook Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	256	107	651	422	107	829
Future Volume (veh/h)	256	107	651	422	107	829
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1900	1976	1870	1945	1870	1870
Adj Flow Rate, veh/h	269	0	685	0	113	873
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	339		795		299	1103
Arrive On Green	0.19	0.00	0.42	0.00	0.05	0.59
Sat Flow, veh/h	1775	0	1870	0	1781	1870
Grp Volume(v), veh/h	270	0	685	0	113	873
Grp Sat Flow(s),veh/h/ln	1782	0	1870	0	1781	1870
Q Serve(g_s), s	7.9	0.0	18.2	0.0	1.8	19.6
Cycle Q Clear(g_c), s	7.9	0.0	18.2	0.0	1.8	19.6
Prop In Lane	1.00	0.00		0.00	1.00	
Lane Grp Cap(c), veh/h	340		795		299	1103
V/C Ratio(X)	0.79		0.86		0.38	0.79
Avail Cap(c_a), veh/h	521		1813		299	2121
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	21.1	0.0	14.3	0.0	11.2	8.6
Incr Delay (d2), s/veh	4.7	0.0	2.9	0.0	0.8	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	0.0	6.3	0.0	0.5	4.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	25.8	0.0	17.2	0.0	12.0	10.0
LnGrp LOS	C		B		B	A
Approach Vol, veh/h	270	A	685	A		986
Approach Delay, s/veh	25.8		17.2			10.2
Approach LOS	C		B			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	9.0	29.2			38.2	16.4
Change Period (Y+Rc), s	6.0	6.0			6.0	6.0
Max Green Setting (Gmax), s	3.0	53.0			62.0	16.0
Max Q Clear Time (g_c+I1), s	3.8	20.2			21.6	9.9
Green Ext Time (p_c), s	0.0	3.1			4.5	0.5

Intersection Summary	
HCM 6th Ctrl Delay	14.8
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.
Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	124	1477	20	21	2202	348	3	40	10	268	60	84
Future Volume (veh/h)	124	1477	20	21	2202	348	3	40	10	268	60	84
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	128	1523	21	22	2270	0	3	41	10	276	62	87
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	158	3264	985	46	2879		231	84	92	352	107	231
Arrive On Green	0.09	0.64	0.62	0.01	0.56	0.00	0.07	0.04	0.04	0.10	0.06	0.06
Sat Flow, veh/h	1781	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	128	1523	21	22	2270	0	3	41	10	276	62	87
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	7.9	17.2	0.3	0.7	39.1	0.0	0.1	2.4	0.7	8.7	3.6	4.0
Cycle Q Clear(g_c), s	7.9	17.2	0.3	0.7	39.1	0.0	0.1	2.4	0.7	8.7	3.6	4.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	158	3264	985	46	2879		231	84	92	352	107	231
V/C Ratio(X)	0.81	0.47	0.02	0.48	0.79		0.01	0.49	0.11	0.78	0.58	0.38
Avail Cap(c_a), veh/h	286	4104	1246	771	4437		555	409	368	555	409	487
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.1	10.4	1.9	54.9	19.2	0.0	48.8	52.2	50.0	49.1	51.4	23.0
Incr Delay (d2), s/veh	9.5	0.1	0.0	7.6	0.5	0.0	0.0	4.4	0.5	3.9	4.8	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	5.4	0.2	0.3	13.5	0.0	0.0	1.2	0.3	3.9	1.8	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	59.6	10.5	1.9	62.4	19.7	0.0	48.8	56.7	50.5	52.9	56.3	24.0
LnGrp LOS	E	B	A	E	B		D	E	D	D	E	C
Approach Vol, veh/h		1672			2292	A		54			425	
Approach Delay, s/veh		14.1			20.1			55.1			47.5	
Approach LOS		B			C			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.4	12.5	6.5	76.6	15.0	13.9	14.9	68.1
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.0	24.5	25.0	88.0	18.0	* 25	18.0	* 95
Max Q Clear Time (g_c+I1), s	10.7	4.4	2.7	19.2	2.1	6.0	9.9	41.1
Green Ext Time (p_c), s	0.7	0.1	0.0	9.7	0.0	0.5	0.2	20.1

Intersection Summary	
HCM 6th Ctrl Delay	20.9
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Build AM Peak Hour - Mitigated

Signal Timing changes

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	124	1477	20	21	2202	348	3	40	10	268	60	84
Future Volume (veh/h)	124	1477	20	21	2202	348	3	40	10	268	60	84
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	128	1523	21	22	2270	0	3	41	10	276	62	87
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	197	3157	950	47	2935		235	90	98	359	112	186
Arrive On Green	0.06	0.62	0.60	0.01	0.57	0.00	0.07	0.05	0.05	0.10	0.06	0.06
Sat Flow, veh/h	3456	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	128	1523	21	22	2270	0	3	41	10	276	62	87
Grp Sat Flow(s),veh/h/ln	1728	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	3.8	16.9	0.3	0.7	35.4	0.0	0.1	2.2	0.6	8.1	3.4	3.8
Cycle Q Clear(g_c), s	3.8	16.9	0.3	0.7	35.4	0.0	0.1	2.2	0.6	8.1	3.4	3.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	197	3157	950	47	2935		235	90	98	359	112	186
V/C Ratio(X)	0.65	0.48	0.02	0.47	0.77		0.01	0.46	0.10	0.77	0.55	0.47
Avail Cap(c_a), veh/h	598	4414	1340	830	4772		598	440	395	598	440	464
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.1	10.8	2.0	51.0	16.9	0.0	45.3	48.2	46.1	45.4	47.6	22.4
Incr Delay (d2), s/veh	3.6	0.1	0.0	7.1	0.5	0.0	0.0	3.6	0.5	3.5	4.2	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	5.3	0.2	0.3	11.7	0.0	0.0	1.1	0.2	3.6	1.7	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.6	10.9	2.0	58.1	17.4	0.0	45.3	51.8	46.6	48.9	51.8	24.3
LnGrp LOS	D	B	A	E	B		D	D	D	D	D	C
Approach Vol, veh/h		1672			2292	A		54			425	
Approach Delay, s/veh		13.9			17.8			50.5			44.3	
Approach LOS		B			B			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.8	12.5	6.4	69.4	14.6	13.7	10.9	64.8
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.0	24.5	25.0	88.0	18.0	* 25	18.0	* 95
Max Q Clear Time (g_c+I1), s	10.1	4.2	2.7	18.9	2.1	5.8	5.8	37.4
Green Ext Time (p_c), s	0.7	0.1	0.0	9.7	0.0	0.5	0.3	20.4

Intersection Summary	
HCM 6th Ctrl Delay	19.3
HCM 6th LOS	B

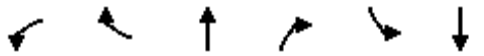
Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Build AM Peak Hour - Mitigated

Signal Timing changes and new EB left turn bay

HCM 6th Signalized Intersection Summary
10: Stony Brook Road & South Drive

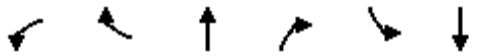


Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations							
Traffic Volume (veh/h)	83	128	429	728	346	210	
Future Volume (veh/h)	83	128	429	728	346	210	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	90	139	466	791	376	228	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	
Cap, veh/h	505	449	590	949	423	1046	
Arrive On Green	0.28	0.28	0.32	0.32	0.16	0.56	
Sat Flow, veh/h	1781	1585	1870	1585	1781	1870	
Grp Volume(v), veh/h	90	139	466	791	376	228	
Grp Sat Flow(s),veh/h/ln	1781	1585	1870	1585	1781	1870	
Q Serve(g_s), s	2.7	4.8	15.8	22.0	9.3	4.3	
Cycle Q Clear(g_c), s	2.7	4.8	15.8	22.0	9.3	4.3	
Prop In Lane	1.00	1.00		1.00	1.00		
Lane Grp Cap(c), veh/h	505	449	590	949	423	1046	
V/C Ratio(X)	0.18	0.31	0.79	0.83	0.89	0.22	
Avail Cap(c_a), veh/h	511	454	590	949	423	1046	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	18.9	19.6	21.8	10.0	14.8	7.7	
Incr Delay (d2), s/veh	0.2	0.4	7.2	6.5	20.1	0.1	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln	1.1	1.7	7.6	14.7	5.6	1.5	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	19.0	20.0	28.9	16.5	34.8	7.8	
LnGrp LOS	B	C	C	B	C	A	
Approach Vol, veh/h	229		1257			604	
Approach Delay, s/veh	19.6		21.1			24.6	
Approach LOS	B		C			C	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	17.0	28.0			45.0	24.8
Change Period (Y+Rc), s	6.0	6.0			6.0	5.0
Max Green Setting (Gmax), s	11.0	22.0			39.0	20.0
Max Q Clear Time (g_c+I1), s	11.3	24.0			6.3	6.8
Green Ext Time (p_c), s	0.0	0.0			1.4	0.6

Intersection Summary		
HCM 6th Ctrl Delay	22.0	
HCM 6th LOS	C	

HCM 6th Signalized Intersection Summary
11: Oxhead Road & Stony Brook Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	42	242	923	36	113	199
Future Volume (veh/h)	42	242	923	36	113	199
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1976	1976	1945	1870	1870	1870
Adj Flow Rate, veh/h	46	241	1003	39	123	216
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	49	256	1060	41	200	1261
Arrive On Green	0.18	0.18	0.57	0.57	0.04	0.67
Sat Flow, veh/h	268	1405	1860	72	1781	1870
Grp Volume(v), veh/h	288	0	0	1042	123	216
Grp Sat Flow(s),veh/h/ln	1679	0	0	1932	1781	1870
Q Serve(g_s), s	13.0	0.0	0.0	38.6	2.1	3.3
Cycle Q Clear(g_c), s	13.0	0.0	0.0	38.6	2.1	3.3
Prop In Lane	0.16	0.84		0.04	1.00	
Lane Grp Cap(c), veh/h	306	0	0	1102	200	1261
V/C Ratio(X)	0.94	0.00	0.00	0.95	0.62	0.17
Avail Cap(c_a), veh/h	306	0	0	1183	200	1340
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.0	0.0	0.0	15.4	18.4	4.6
Incr Delay (d2), s/veh	36.0	0.0	0.0	14.5	5.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	0.0	0.0	18.6	1.5	1.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	67.0	0.0	0.0	29.9	23.9	4.7
LnGrp LOS	E	A	A	C	C	A
Approach Vol, veh/h	288		1042			339
Approach Delay, s/veh	67.0		29.9			11.7
Approach LOS	E		C			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	8.0	49.8			57.8	19.0
Change Period (Y+Rc), s	5.0	6.0			6.0	5.0
Max Green Setting (Gmax), s	3.0	47.0			55.0	14.0
Max Q Clear Time (g_c+I1), s	4.1	40.6			5.3	15.0
Green Ext Time (p_c), s	0.0	3.1			0.9	0.0

Intersection Summary	
HCM 6th Ctrl Delay	32.6
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

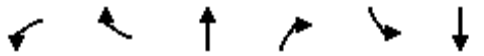
HCM 6th Roundabout
20: Stony Brook Road & Route 25A

Intersection	
Intersection Delay, s/veh	18.1
Intersection LOS	C

Approach	WB	NB	SB
Entry Lanes	2	2	2
Conflicting Circle Lanes	2	2	2
Adj Approach Flow, veh/h	514	1504	1006
Demand Flow Rate, veh/h	524	1534	1026
Vehicles Circulating, veh/h	1019	164	330
Vehicles Exiting, veh/h	679	1192	1213
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	17.1	18.9	17.4
Approach LOS	C	C	C

Lane	Left	Right	Left	Right	Left	Right
Designated Moves	L	TR	LT	R	L	TR
Assumed Moves	L	TR	LT	R	L	TR
RT Channelized						
Lane Util	0.630	0.370	0.664	0.336	0.160	0.840
Follow-Up Headway, s	2.667	2.535	2.667	2.535	2.667	2.535
Critical Headway, s	4.645	4.328	4.645	4.328	4.645	4.328
Entry Flow, veh/h	330	194	1019	515	164	862
Cap Entry Lane, veh/h	529	597	1161	1235	996	1073
Entry HV Adj Factor	0.982	0.979	0.980	0.981	0.982	0.980
Flow Entry, veh/h	324	190	999	505	161	845
Cap Entry, veh/h	519	585	1138	1211	978	1052
V/C Ratio	0.624	0.325	0.878	0.417	0.165	0.804
Control Delay, s/veh	20.9	10.7	24.8	7.2	5.2	19.7
LOS	C	B	C	A	A	C
95th %tile Queue, veh	4	1	13	2	1	9

HCM 6th Signalized Intersection Summary
2: 25A & Stony Brook Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	314	184	969	490	156	820
Future Volume (veh/h)	314	184	969	490	156	820
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1900	1976	1870	1945	1870	1870
Adj Flow Rate, veh/h	324	0	999	0	161	845
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	350		1047		177	1242
Arrive On Green	0.20	0.00	0.56	0.00	0.03	0.66
Sat Flow, veh/h	1776	0	1870	0	1781	1870
Grp Volume(v), veh/h	325	0	999	0	161	845
Grp Sat Flow(s),veh/h/ln	1782	0	1870	0	1781	1870
Q Serve(g_s), s	15.5	0.0	43.6	0.0	3.0	23.9
Cycle Q Clear(g_c), s	15.5	0.0	43.6	0.0	3.0	23.9
Prop In Lane	1.00	0.00		0.00	1.00	
Lane Grp Cap(c), veh/h	351		1047		177	1242
V/C Ratio(X)	0.93		0.95		0.91	0.68
Avail Cap(c_a), veh/h	351		1126		177	1321
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	34.1	0.0	17.9	0.0	22.8	8.9
Incr Delay (d2), s/veh	30.0	0.0	16.4	0.0	43.5	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.4	0.0	19.8	0.0	3.9	7.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	64.1	0.0	34.3	0.0	66.2	10.2
LnGrp LOS	E		C		E	B
Approach Vol, veh/h	325	A	999	A		1006
Approach Delay, s/veh	64.1		34.3			19.2
Approach LOS	E		C			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	9.0	54.4			63.4	23.0
Change Period (Y+Rc), s	6.0	6.0			6.0	6.0
Max Green Setting (Gmax), s	3.0	52.0			61.0	17.0
Max Q Clear Time (g_c+I1), s	5.0	45.6			25.9	17.5
Green Ext Time (p_c), s	0.0	2.8			4.3	0.0

Intersection Summary	
HCM 6th Ctrl Delay	31.9
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.
Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	181	1683	102	173	1720	326	107	163	111	362	226	172
Future Volume (veh/h)	181	1683	102	173	1720	326	107	163	111	362	226	172
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	191	1772	107	182	1811	0	113	172	117	381	238	181
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	220	2521	756	253	2264		250	213	297	447	280	433
Arrive On Green	0.12	0.49	0.48	0.07	0.44	0.00	0.07	0.11	0.11	0.13	0.15	0.15
Sat Flow, veh/h	1781	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	191	1772	107	182	1811	0	113	172	117	381	238	181
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	12.5	31.9	2.8	6.1	36.3	0.0	3.7	10.6	7.7	12.8	14.7	7.4
Cycle Q Clear(g_c), s	12.5	31.9	2.8	6.1	36.3	0.0	3.7	10.6	7.7	12.8	14.7	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	220	2521	756	253	2264		250	213	297	447	280	433
V/C Ratio(X)	0.87	0.70	0.14	0.72	0.80		0.45	0.81	0.39	0.85	0.85	0.42
Avail Cap(c_a), veh/h	270	3230	976	729	3545		525	387	444	525	387	523
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	23.3	6.9	53.7	28.5	0.0	52.7	51.3	42.3	50.5	49.1	17.0
Incr Delay (d2), s/veh	21.3	0.5	0.1	3.8	0.7	0.0	1.3	7.1	0.9	11.3	12.2	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	11.8	1.5	2.7	13.7	0.0	1.6	5.4	3.0	6.2	7.7	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.3	23.8	6.9	57.5	29.2	0.0	54.0	58.4	43.1	61.8	61.3	17.7
LnGrp LOS	E	C	A	E	C		D	E	D	E	E	B
Approach Vol, veh/h		2070			1993	A		402			800	
Approach Delay, s/veh		27.4			31.8			52.7			51.7	
Approach LOS		C			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.3	21.0	13.7	63.5	16.1	25.3	19.6	57.6
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.0	24.5	25.0	73.0	18.0	* 25	18.0	* 80
Max Q Clear Time (g_c+I1), s	14.8	12.6	8.1	33.9	5.7	16.7	14.5	38.3
Green Ext Time (p_c), s	0.6	0.9	0.6	12.5	0.3	1.1	0.2	12.3

Intersection Summary	
HCM 6th Ctrl Delay	34.7
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Build PM Peak Hour - Mitigated

Signal Timing changes

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	181	1683	102	173	1720	327	107	165	112	362	227	172
Future Volume (veh/h)	181	1683	102	173	1720	327	107	165	112	362	227	172
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	191	1772	107	182	1811	0	113	174	118	381	239	181
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	268	2339	696	262	2331		254	221	308	462	289	367
Arrive On Green	0.08	0.46	0.44	0.08	0.46	0.00	0.07	0.12	0.12	0.13	0.15	0.15
Sat Flow, veh/h	3456	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	191	1772	107	182	1811	0	113	174	118	381	239	181
Grp Sat Flow(s),veh/h/ln	1728	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	5.7	30.2	2.7	5.4	31.4	0.0	3.3	9.5	6.8	11.3	13.0	6.8
Cycle Q Clear(g_c), s	5.7	30.2	2.7	5.4	31.4	0.0	3.3	9.5	6.8	11.3	13.0	6.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	268	2339	696	262	2331		254	221	308	462	289	367
V/C Ratio(X)	0.71	0.76	0.15	0.69	0.78		0.44	0.79	0.38	0.83	0.83	0.49
Avail Cap(c_a), veh/h	593	3648	1102	823	4004		593	437	490	593	437	493
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.3	23.6	6.9	47.3	24.0	0.0	46.6	45.0	36.8	44.3	43.0	16.3
Incr Delay (d2), s/veh	3.5	0.5	0.1	3.3	0.6	0.0	1.2	6.1	0.8	7.4	7.9	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	11.0	1.4	2.3	11.4	0.0	1.4	4.7	2.6	5.2	6.5	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.8	24.1	7.0	50.6	24.6	0.0	47.8	51.1	37.6	51.7	50.9	17.3
LnGrp LOS	D	C	A	D	C		D	D	D	D	D	B
Approach Vol, veh/h		2070			1993	A		405			801	
Approach Delay, s/veh		25.7			27.0			46.3			43.7	
Approach LOS		C			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	19.9	13.0	53.1	15.2	23.7	13.1	52.9
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.0	24.5	25.0	73.0	18.0	* 25	18.0	* 80
Max Q Clear Time (g_c+I1), s	13.3	11.5	7.4	32.2	5.3	15.0	7.7	33.4
Green Ext Time (p_c), s	0.8	0.9	0.6	12.7	0.3	1.2	0.5	12.6

Intersection Summary	
HCM 6th Ctrl Delay	30.5
HCM 6th LOS	C

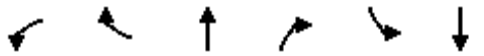
Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Build PM Peak Hour - Mitigated

Signal Timing changes and new EB left turn bay

HCM 6th Signalized Intersection Summary
10: Stony Brook Road & South Drive

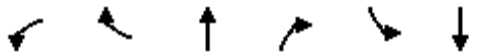


Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	683	262	290	356	210	550
Future Volume (veh/h)	683	262	290	356	210	550
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	711	273	302	371	219	573
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	767	683	519	1123	305	779
Arrive On Green	0.43	0.43	0.28	0.28	0.06	0.42
Sat Flow, veh/h	1781	1585	1870	1585	1781	1870
Grp Volume(v), veh/h	711	273	302	371	219	573
Grp Sat Flow(s),veh/h/ln	1781	1585	1870	1585	1781	1870
Q Serve(g_s), s	27.2	8.5	10.0	6.4	4.0	18.6
Cycle Q Clear(g_c), s	27.2	8.5	10.0	6.4	4.0	18.6
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	767	683	519	1123	305	779
V/C Ratio(X)	0.93	0.40	0.58	0.33	0.72	0.74
Avail Cap(c_a), veh/h	841	748	519	1123	305	779
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.4	14.1	22.4	4.0	22.7	17.7
Incr Delay (d2), s/veh	15.4	0.4	1.6	0.2	7.9	3.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.3	2.9	4.4	5.7	2.3	8.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	34.8	14.5	24.0	4.2	30.6	21.3
LnGrp LOS	C	B	C	A	C	C
Approach Vol, veh/h	984		673			792
Approach Delay, s/veh	29.2		13.1			23.9
Approach LOS	C		B			C

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	10.0	26.0			36.0	36.0
Change Period (Y+Rc), s	6.0	6.0			6.0	5.0
Max Green Setting (Gmax), s	4.0	20.0			30.0	34.0
Max Q Clear Time (g_c+I1), s	6.0	12.0			20.6	29.2
Green Ext Time (p_c), s	0.0	2.1			2.6	1.8

Intersection Summary	
HCM 6th Ctrl Delay	23.0
HCM 6th LOS	C

HCM 6th Signalized Intersection Summary
11: Oxhead Road & Stony Brook Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	114	123	512	140	280	923
Future Volume (veh/h)	114	123	512	140	280	923
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1976	1976	1945	1870	1870	1870
Adj Flow Rate, veh/h	120	129	539	147	295	972
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	143	153	596	163	439	1228
Arrive On Green	0.17	0.17	0.41	0.41	0.16	0.66
Sat Flow, veh/h	836	899	1472	401	1781	1870
Grp Volume(v), veh/h	250	0	0	686	295	972
Grp Sat Flow(s),veh/h/ln	1742	0	0	1873	1781	1870
Q Serve(g_s), s	8.8	0.0	0.0	21.9	5.1	23.7
Cycle Q Clear(g_c), s	8.8	0.0	0.0	21.9	5.1	23.7
Prop In Lane	0.48	0.52		0.21	1.00	
Lane Grp Cap(c), veh/h	297	0	0	759	439	1228
V/C Ratio(X)	0.84	0.00	0.00	0.90	0.67	0.79
Avail Cap(c_a), veh/h	301	0	0	1000	523	1557
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.6	0.0	0.0	17.8	12.1	7.8
Incr Delay (d2), s/veh	18.6	0.0	0.0	9.3	2.6	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	0.0	0.0	10.2	1.8	7.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	44.2	0.0	0.0	27.1	14.7	10.1
LnGrp LOS	D	A	A	C	B	B
Approach Vol, veh/h	250		686			1267
Approach Delay, s/veh	44.2		27.1			11.1
Approach LOS	D		C			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	16.0	31.8			47.8	15.9
Change Period (Y+Rc), s	6.0	6.0			6.0	5.0
Max Green Setting (Gmax), s	13.0	34.0			53.0	11.0
Max Q Clear Time (g_c+I1), s	7.1	23.9			25.7	10.8
Green Ext Time (p_c), s	0.5	1.9			9.2	0.0

Intersection Summary	
HCM 6th Ctrl Delay	19.9
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

HCM 6th Signalized Intersection Summary
13: NYS 347 & Stony Brook Road

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	385	2131	94	121	2299	150	84	152	87	321	234	262
Future Volume (veh/h)	385	2131	94	121	2299	150	84	152	87	321	234	262
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1870	1870	1870	1945	1870	1870	1870
Adj Flow Rate, veh/h	393	2174	96	123	2346	153	86	155	89	328	239	267
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	449	1909	864	146	2563	775	190	198	158	295	337	270
Arrive On Green	0.13	0.54	0.52	0.08	0.50	0.49	0.06	0.11	0.10	0.13	0.18	0.17
Sat Flow, veh/h	3456	3554	1648	1781	5106	1585	1781	1870	1648	1781	1870	1585
Grp Volume(v), veh/h	393	2174	96	123	2346	153	86	155	89	328	239	267
Grp Sat Flow(s),veh/h/ln	1728	1777	1648	1781	1702	1585	1781	1870	1648	1781	1870	1585
Q Serve(g_s), s	17.2	83.0	3.2	10.5	65.4	8.4	6.7	12.5	6.5	20.0	18.6	26.0
Cycle Q Clear(g_c), s	17.2	83.0	3.2	10.5	65.4	8.4	6.7	12.5	6.5	20.0	18.6	26.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	449	1909	864	146	2563	775	190	198	158	295	337	270
V/C Ratio(X)	0.87	1.14	0.11	0.84	0.92	0.20	0.45	0.78	0.56	1.11	0.71	0.99
Avail Cap(c_a), veh/h	559	1909	864	242	2611	790	253	248	203	295	337	270
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	66.0	35.8	9.3	69.9	35.4	22.3	58.6	67.4	44.5	56.2	59.5	63.9
Incr Delay (d2), s/veh	12.2	69.5	0.1	12.8	5.6	0.1	1.7	12.0	3.1	86.5	6.8	51.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	51.6	1.7	5.2	26.8	3.1	3.1	6.7	3.4	9.0	9.5	14.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.2	105.2	9.3	82.7	41.0	22.4	60.3	79.4	47.5	142.6	66.3	115.4
LnGrp LOS	E	F	A	F	D	C	E	E	D	F	E	F
Approach Vol, veh/h		2663			2622			330			834	
Approach Delay, s/veh		97.8			41.9			65.8			112.0	
Approach LOS		F			D			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.0	20.9	19.7	88.0	14.5	32.3	25.1	82.6
Change Period (Y+Rc), s	6.0	6.0	7.0	* 7	6.0	6.0	5.0	7.0
Max Green Setting (Gmax), s	20.0	19.0	21.0	* 81	14.0	25.0	25.0	77.0
Max Q Clear Time (g_c+I1), s	22.0	14.5	12.5	85.0	8.7	28.0	19.2	67.4
Green Ext Time (p_c), s	0.0	0.4	0.2	0.0	0.1	0.0	0.8	7.6

Intersection Summary	
HCM 6th Ctrl Delay	75.3
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

HCM 6th Signalized Intersection Summary
130: Route 347 & Stony Brook Road with NB R lane

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	385	2131	94	121	2299	150	84	152	87	321	234	262
Future Volume (veh/h)	385	2131	94	121	2299	150	84	152	87	321	234	262
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1945	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	393	2174	96	123	2346	153	86	155	89	328	239	267
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	449	1938	932	146	2574	1026	180	332	262	329	316	458
Arrive On Green	0.13	0.55	0.53	0.08	0.50	0.49	0.06	0.09	0.08	0.13	0.17	0.16
Sat Flow, veh/h	3456	3554	1585	1781	5106	1648	1781	3554	1585	1781	1870	1585
Grp Volume(v), veh/h	393	2174	96	123	2346	153	86	155	89	328	239	267
Grp Sat Flow(s),veh/h/ln	1728	1777	1585	1781	1702	1648	1781	1777	1585	1781	1870	1585
Q Serve(g_s), s	17.0	83.0	1.9	10.4	64.1	5.9	6.6	6.3	1.5	20.0	18.5	21.9
Cycle Q Clear(g_c), s	17.0	83.0	1.9	10.4	64.1	5.9	6.6	6.3	1.5	20.0	18.5	21.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	449	1938	932	146	2574	1026	180	332	262	329	316	458
V/C Ratio(X)	0.88	1.12	0.10	0.84	0.91	0.15	0.48	0.47	0.34	1.00	0.76	0.58
Avail Cap(c_a), veh/h	545	1938	932	234	2650	1051	244	479	328	329	326	466
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	65.0	34.6	4.5	68.9	34.6	12.0	59.4	65.4	29.3	58.0	60.3	46.3
Incr Delay (d2), s/veh	12.9	62.3	0.0	14.0	5.2	0.1	2.0	1.0	0.8	48.5	9.5	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	49.7	0.8	5.2	26.1	2.1	3.1	2.9	2.0	7.5	9.7	8.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.0	96.9	4.6	82.9	39.8	12.0	61.4	66.4	30.1	106.5	69.8	48.1
LnGrp LOS	E	F	A	F	D	B	E	E	C	F	E	D
Approach Vol, veh/h		2663			2622			330			834	
Approach Delay, s/veh		90.8			40.2			55.3			77.3	
Approach LOS		F			D			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.0	18.7	19.5	88.0	14.5	30.2	25.8	81.7
Change Period (Y+Rc), s	6.0	6.0	7.0	* 7	6.0	6.0	6.0	7.0
Max Green Setting (Gmax), s	20.0	19.0	20.0	* 81	14.0	25.0	24.0	77.0
Max Q Clear Time (g_c+I1), s	22.0	8.3	12.4	85.0	8.6	23.9	19.0	66.1
Green Ext Time (p_c), s	0.0	0.7	0.2	0.0	0.1	0.3	0.8	8.5

Intersection Summary	
HCM 6th Ctrl Delay	66.7
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Build PM Peak Hour - Mitigated

Add northbound right turn lane

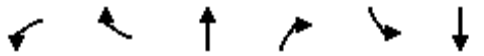
HCM 6th Roundabout
20: Route 25A & Stony Brook Road

Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Approach	WB	NB	SB
Entry Lanes	2	2	2
Conflicting Circle Lanes	2	2	2
Adj Approach Flow, veh/h	410	875	745
Demand Flow Rate, veh/h	418	892	759
Vehicles Circulating, veh/h	615	177	218
Vehicles Exiting, veh/h	454	800	815
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	7.5	8.1	7.7
Approach LOS	A	A	A

Lane	Left	Right	Left	Right	Left	Right
Designated Moves	L	TR	LT	R	L	TR
Assumed Moves	L	TR	LT	R	L	TR
RT Channelized						
Lane Util	0.522	0.478	0.689	0.311	0.233	0.767
Follow-Up Headway, s	2.667	2.535	2.667	2.535	2.667	2.535
Critical Headway, s	4.645	4.328	4.645	4.328	4.645	4.328
Entry Flow, veh/h	218	200	615	277	177	582
Cap Entry Lane, veh/h	767	842	1147	1222	1105	1180
Entry HV Adj Factor	0.982	0.980	0.980	0.982	0.983	0.980
Flow Entry, veh/h	214	196	603	272	174	571
Cap Entry, veh/h	753	825	1125	1200	1086	1157
V/C Ratio	0.284	0.238	0.536	0.227	0.160	0.493
Control Delay, s/veh	8.1	6.9	9.5	5.0	4.7	8.6
LOS	A	A	A	A	A	A
95th %tile Queue, veh	1	1	3	1	1	3

HCM 6th Signalized Intersection Summary
2: 25A & Stony Brook Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	201	184	567	256	164	537
Future Volume (veh/h)	201	184	567	256	164	537
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1900	1976	1870	1945	1870	1870
Adj Flow Rate, veh/h	214	0	603	0	174	571
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	344		715		362	1073
Arrive On Green	0.19	0.00	0.38	0.00	0.08	0.57
Sat Flow, veh/h	1773	0	1870	0	1781	1870
Grp Volume(v), veh/h	215	0	603	0	174	571
Grp Sat Flow(s),veh/h/ln	1782	0	1870	0	1781	1870
Q Serve(g_s), s	5.7	0.0	15.2	0.0	2.8	9.7
Cycle Q Clear(g_c), s	5.7	0.0	15.2	0.0	2.8	9.7
Prop In Lane	1.00	0.00		0.00	1.00	
Lane Grp Cap(c), veh/h	345		715		362	1073
V/C Ratio(X)	0.62		0.84		0.48	0.53
Avail Cap(c_a), veh/h	691		1741		367	2103
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	19.1	0.0	14.5	0.0	10.6	6.8
Incr Delay (d2), s/veh	1.8	0.0	2.8	0.0	1.0	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.0	5.3	0.0	0.8	2.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	20.9	0.0	17.3	0.0	11.6	7.2
LnGrp LOS	C		B		B	A
Approach Vol, veh/h	215	A	603	A		745
Approach Delay, s/veh	20.9		17.3			8.2
Approach LOS	C		B			A

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	9.9	25.7			35.6	16.0
Change Period (Y+Rc), s	5.5	6.0			6.0	6.0
Max Green Setting (Gmax), s	4.5	48.0			58.0	20.0
Max Q Clear Time (g_c+I1), s	4.8	17.2			11.7	7.7
Green Ext Time (p_c), s	0.0	2.6			2.4	0.6

Intersection Summary	
HCM 6th Ctrl Delay	13.5
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.
Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	241	1329	172	357	1337	337	154	161	165	341	245	156
Future Volume (veh/h)	241	1329	172	357	1337	337	154	161	165	341	245	156
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	259	1429	185	384	1438	0	166	173	177	367	263	168
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	291	2024	598	456	1864		240	236	409	449	305	517
Arrive On Green	0.16	0.40	0.38	0.13	0.37	0.00	0.07	0.13	0.13	0.13	0.16	0.16
Sat Flow, veh/h	1781	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	259	1429	185	384	1438	0	166	173	177	367	263	168
Grp Sat Flow(s),veh/h/ln	1781	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	14.9	24.5	5.7	11.3	26.0	0.0	4.9	9.3	9.7	10.8	14.3	5.1
Cycle Q Clear(g_c), s	14.9	24.5	5.7	11.3	26.0	0.0	4.9	9.3	9.7	10.8	14.3	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	291	2024	598	456	1864		240	236	409	449	305	517
V/C Ratio(X)	0.89	0.71	0.31	0.84	0.77		0.69	0.73	0.43	0.82	0.86	0.32
Avail Cap(c_a), veh/h	324	3177	956	529	3045		529	331	490	595	367	570
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.8	26.4	10.2	44.3	29.3	0.0	47.5	43.9	32.3	44.2	42.6	11.1
Incr Delay (d2), s/veh	23.4	0.5	0.3	10.5	0.7	0.0	3.5	5.0	0.7	6.6	16.3	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	9.2	2.9	5.3	9.9	0.0	2.2	4.6	3.6	5.0	7.9	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	66.2	26.9	10.5	54.7	30.0	0.0	51.1	48.9	33.1	50.9	58.9	11.5
LnGrp LOS	E	C	B	D	C		D	D	C	D	E	B
Approach Vol, veh/h		1873			1822	A		516			798	
Approach Delay, s/veh		30.7			35.2			44.2			45.2	
Approach LOS		C			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.6	20.7	18.8	46.4	14.8	24.5	22.1	43.1
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.0	18.5	16.0	63.0	16.0	* 21	19.0	* 60
Max Q Clear Time (g_c+I1), s	12.8	11.7	13.3	26.5	6.9	16.3	16.9	28.0
Green Ext Time (p_c), s	0.8	0.8	0.4	9.5	0.4	0.7	0.2	8.1

Intersection Summary	
HCM 6th Ctrl Delay	36.0
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Build Saturday Peak Hour - Mitigated

Signal Timing changes

HCM 6th Signalized Intersection Summary
8: Moriches Road & NYS 347

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	241	1329	172	357	1337	337	154	161	165	341	245	156
Future Volume (veh/h)	241	1329	172	357	1337	337	154	161	165	341	245	156
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	259	1429	185	384	1438	0	166	173	177	367	263	168
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	346	1931	568	463	2103		244	241	417	455	309	420
Arrive On Green	0.10	0.38	0.36	0.13	0.41	0.00	0.07	0.13	0.13	0.13	0.17	0.17
Sat Flow, veh/h	3456	5106	1585	3456	5106	1585	3456	1870	1585	3456	1870	1585
Grp Volume(v), veh/h	259	1429	185	384	1438	0	166	173	177	367	263	168
Grp Sat Flow(s),veh/h/ln	1728	1702	1585	1728	1702	1585	1728	1870	1585	1728	1870	1585
Q Serve(g_s), s	7.2	23.9	5.6	10.7	22.8	0.0	4.6	8.8	9.2	10.2	13.5	5.4
Cycle Q Clear(g_c), s	7.2	23.9	5.6	10.7	22.8	0.0	4.6	8.8	9.2	10.2	13.5	5.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	346	1931	568	463	2103		244	241	417	455	309	420
V/C Ratio(X)	0.75	0.74	0.33	0.83	0.68		0.68	0.72	0.42	0.81	0.85	0.40
Avail Cap(c_a), veh/h	663	3350	1008	558	3211		558	349	508	628	387	487
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.4	26.6	10.1	41.8	23.8	0.0	44.9	41.4	30.3	41.8	40.2	13.0
Incr Delay (d2), s/veh	3.2	0.6	0.3	8.7	0.4	0.0	3.3	4.0	0.7	5.4	13.8	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	8.9	2.8	4.9	8.3	0.0	2.1	4.2	3.4	4.6	7.3	2.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.6	27.2	10.5	50.5	24.2	0.0	48.3	45.4	31.0	47.2	54.0	13.6
LnGrp LOS	D	C	B	D	C		D	D	C	D	D	B
Approach Vol, veh/h		1873			1822	A		516			798	
Approach Delay, s/veh		28.2			29.8			41.4			42.4	
Approach LOS		C			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.1	20.3	18.3	42.5	14.5	23.8	14.9	45.8
Change Period (Y+Rc), s	5.0	7.5	5.0	7.0	7.5	* 7.5	5.0	* 7
Max Green Setting (Gmax), s	18.0	18.5	16.0	63.0	16.0	* 21	19.0	* 60
Max Q Clear Time (g_c+I1), s	12.2	11.2	12.7	25.9	6.6	15.5	9.2	24.8
Green Ext Time (p_c), s	0.8	0.8	0.5	9.5	0.4	0.8	0.7	8.3

Intersection Summary	
HCM 6th Ctrl Delay	32.4
HCM 6th LOS	C

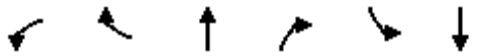
Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Build Saturday Peak Hour - Mitigated

Signal Timing changes and new EB left turn bay

HCM 6th Signalized Intersection Summary
10: Stony Brook Road & South Drive

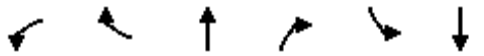


Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	171	66	307	184	75	361
Future Volume (veh/h)	171	66	307	184	75	361
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	180	69	323	194	79	380
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	588	523	628	1055	382	908
Arrive On Green	0.33	0.33	0.34	0.34	0.05	0.49
Sat Flow, veh/h	1781	1585	1870	1585	1781	1870
Grp Volume(v), veh/h	180	69	323	194	79	380
Grp Sat Flow(s),veh/h/ln	1781	1585	1870	1585	1781	1870
Q Serve(g_s), s	4.5	1.8	8.3	2.8	1.6	7.8
Cycle Q Clear(g_c), s	4.5	1.8	8.3	2.8	1.6	7.8
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	588	523	628	1055	382	908
V/C Ratio(X)	0.31	0.13	0.51	0.18	0.21	0.42
Avail Cap(c_a), veh/h	598	532	753	1162	414	1067
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.9	14.0	15.9	3.8	11.5	9.9
Incr Delay (d2), s/veh	0.3	0.1	0.7	0.1	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.6	3.3	1.8	0.6	2.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	15.2	14.1	16.6	3.9	11.8	10.2
LnGrp LOS	B	B	B	A	B	B
Approach Vol, veh/h	249		517			459
Approach Delay, s/veh	14.9		11.8			10.5
Approach LOS	B		B			B

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	8.9	26.0			34.9	24.7
Change Period (Y+Rc), s	6.0	6.0			6.0	5.0
Max Green Setting (Gmax), s	4.0	24.0			34.0	20.0
Max Q Clear Time (g_c+I1), s	3.6	10.3			9.8	6.5
Green Ext Time (p_c), s	0.0	2.2			2.4	0.6

Intersection Summary		
HCM 6th Ctrl Delay	11.9	
HCM 6th LOS	B	

HCM 6th Signalized Intersection Summary
11: Oxhead Road & Stony Brook Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	71	144	354	87	153	386
Future Volume (veh/h)	71	144	354	87	153	386
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1976	1976	1945	1870	1870	1870
Adj Flow Rate, veh/h	76	155	381	94	165	415
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	2	2	2	2
Cap, veh/h	108	220	649	160	476	1142
Arrive On Green	0.19	0.19	0.43	0.43	0.07	0.61
Sat Flow, veh/h	561	1143	1507	372	1781	1870
Grp Volume(v), veh/h	232	0	0	475	165	415
Grp Sat Flow(s),veh/h/ln	1711	0	0	1878	1781	1870
Q Serve(g_s), s	7.1	0.0	0.0	10.7	2.6	6.2
Cycle Q Clear(g_c), s	7.1	0.0	0.0	10.7	2.6	6.2
Prop In Lane	0.33	0.67		0.20	1.00	
Lane Grp Cap(c), veh/h	329	0	0	809	476	1142
V/C Ratio(X)	0.71	0.00	0.00	0.59	0.35	0.36
Avail Cap(c_a), veh/h	369	0	0	1416	476	1746
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.0	0.0	0.0	12.1	8.3	5.4
Incr Delay (d2), s/veh	5.3	0.0	0.0	0.7	0.4	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	0.0	0.0	3.9	0.8	1.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	26.3	0.0	0.0	12.8	8.7	5.6
LnGrp LOS	C	A	A	B	A	A
Approach Vol, veh/h	232		475			580
Approach Delay, s/veh	26.3		12.8			6.5
Approach LOS	C		B			A

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	10.0	30.0			40.0	15.7
Change Period (Y+Rc), s	6.0	6.0			6.0	5.0
Max Green Setting (Gmax), s	4.0	42.0			52.0	12.0
Max Q Clear Time (g_c+I1), s	4.6	12.7			8.2	9.1
Green Ext Time (p_c), s	0.0	1.5			2.9	0.2

Intersection Summary	
HCM 6th Ctrl Delay	12.4
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

APPENDIX H:

ROUTE 25A - THREE VILLAGE AREA:
VISIONING REPORT FOR THE HAMLETS OF STONY BROOK, SETAUKET, AND EAST SETAUKET

RELEVANT EXCERPTS PROVIDED – THE ENTIRE REPORT CAN BE FOUND AT THE TOWN OF BROOKHAVEN WEBSITE:

https://www.brookhavenny.gov/FORMS?COMMAND=CORE_DOWNLOAD&ENTRYID=11103

Route 25A - Three Village Area: Visioning Report

For the Hamlets of Stony Brook, Setauket and East Setauket

Excerpts provided herein are relevant to the Gyrodyne LLC Subdivision:

* Intersection of Route 25A at Stony Brook Road needs improvement today
* This intersection warrants a traffic signal, but a roundabout can also yield improved safety and reduced congestion
* NYSDOT is vetting a signal vs. a roundabout at this intersection
* NYSDOT and the Town of Brookhaven personnel were on the Advisory Committee who prepared this Visioning Report

The full document is on the Town of Brookhaven website:
https://www.brookhavenny.gov/Forms?Command=Core_Download&EntryId=11103

Prepared for:

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July 2017

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Stony Brook University

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Robert de Zafra, Three Village Civic Association
Jonathan Kornreich, Three Village Civic Association
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Cynthia Barnes, Three Village Community Trust
Michael Varley, Three Village Community Trust
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INTRODUCTION

The Three Village - Route 25A Visioning Study is a locally initiated planning effort to develop a shared community vision for the future development of the RT 25A commercial corridor through the hamlets of Stony Brook, Setauket and East Setauket. The Visioning focused on various aspects of land use planning including improvements to pedestrian safety, transportation, aesthetics, landscaping, design standards, and land use. The visioning process was first and foremost about listening to residents and stakeholders and providing them with a forum to share and discuss ideas. Maximizing citizen participation was an essential part of creating a consensus vision for the future of the area. This report is a snapshot of community sentiment in the period between January and March 2017, which involved the input of over 300-participants at six community meetings.

The Visioning Report has taken the input received from community residents and stakeholders to identify shared goals and strategies to create a corridor that has a well-functioning road, quality building and site design, improved pedestrian and bicycle friendly facilities, and preserved historic and natural open spaces. Feedback also helped the Town understand which issues are not in agreement or are in need of further study. The Vision document will be ultimately accepted by the Town Board as guidance for the Route 25A Corridor Plan for Stony Brook, Setauket and East Setauket

The Visioning Report informs future planning by the Town, County, State and other agencies, which may include decisions related to land use and zoning, capital expenditures and the establishment of other policies. It is recognized that the vision presented is advisory in nature, and that over time, changing local conditions will need to be considered during the Town's future efforts. The next phase of this project is the development of a community-based land use plan which will lead to an implementation phase of the adopted recommendations. These efforts, to be undertaken by the Town will involve further public input and review before any recommendations are adopted.

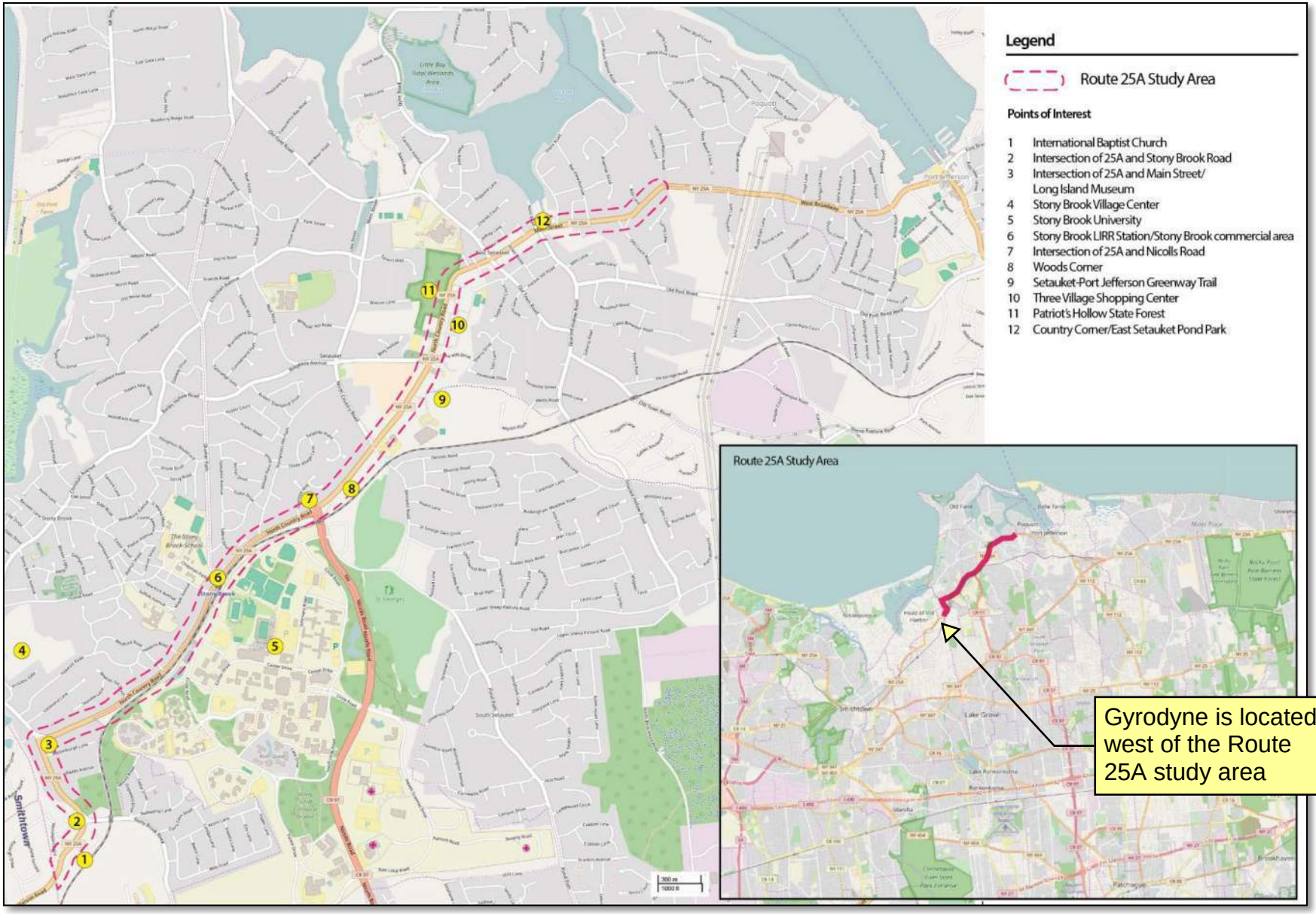


Figure 1: Study Area: Route 25A – Three Village Area

Route 25A Stony Brook Wants:

- Reduce congestion
- Improve safety, specifically at:
  - Commercial area (i.e. cars backing into traffic)
  - Route 25A @ Stony Brook Road intersection
  - Route 25A @ Main Street
  - Route 25A @Nicolls Road intersection
- Improve pedestrian connections across LIRR
- Improve cohesion of land uses along corridor
- Maintain the existing scale commercial buildings opposite the LIRR station
- Need for consistent architectural style
- Improve aesthetic charm, consider Stony Brook Village as a model
- Reduce visual clutter (utilities and signage)
- Continuous sidewalks along 25A, especially to the museum area
- Improve streetscape in commercial areas with lighting, seating, sidewalks, landscaping, etc.
- Make corridor more comfortable for bicyclists
- Create a designated civic space/public open space
- Support shops in commercial area that cater to the needs of the local neighborhood/community
- Improve buffer areas between commercial and residential areas
- Improve bus service frequency
- Improve relationship/connection between community and Stony Brook University

THREE VILLAGE AREA VISION

Route 25A is the commercial spine of three hamlets; Stony Brook, Setauket, and East Setauket, collectively known as the Three Village area. The hamlets have long recognized the need to improve the corridor so that it contributes to a sense of community and connectivity, rather than being a thoroughfare for automobiles. The following priorities were identified in the visioning process, which involved public outreach meetings, input from the CAC, discussions with stakeholders, and research on prior plans and existing conditions.

Traffic and Circulation

The Town and NYSDOT should work together to develop an improved and safe roadway which improves accessibility, aesthetics and lessens congestion. Problematic intersections should be studied to determine where congestion can be lessened and safety can be improved. Any changes along the road should respect the residential nature of the surrounding area; Route 25A should not be widened to accommodate higher traffic volumes.

Route 25A should become more "walkable." This includes filling in gaps in the sidewalk network, improving crossings, and adding streetscape amenities where appropriate. The corridor should also become more comfortable for bicyclists, by incorporating bicycle facilities such as bike lanes, off-road paths, pavement markings (e.g. sharrows), and bike parking where feasible. The sidewalk and bicycle network should connect key destinations such as Stony Brook University, the Stony Brook Train Station, the Greenway Trail, the waterfront, and the museum area.

Setauket Harbor Pond Park (top)
25A/Nicolls Road Intersection (middle)
25A/Stony Brook Road Intersection (bottom)

ISSUES AND OPPORTUNITIES

Transportation

Congestion

There are various transportation related issues along the corridor. Traffic congestion is reportedly very high, particularly during the peak travel periods for the University and commuters. High levels of traffic can also be attributed to the construction that is currently occurring on Route 347 as well as from the wave of vehicles that disembark from the Port Jefferson Ferry Terminal. Residents generally wanted to reduce congestion and avoid diversion of traffic into residential neighborhoods. However, widening the roadway to increase capacity was not supported by residents.

Residents stated that traffic in Stony Brook is particularly heavy in the station area and at Nicolls Road. In the commercial area, congestion is exacerbated by parking areas which enter/exit directly onto Route 25A. In any new development, the Town should consider access management, which is to ensure that a roadway functions safely and efficiently while providing the appropriate degree of access to adjacent properties. Good access management reduces traffic congestion and improves safety for motorists, bicyclists, and pedestrians alike.

Residents also asked that signal timings be reviewed at the station area to improve vehicular flow. This issue was also identified at the Three Village Shopping Center, where three signals are located along a half mile stretch. If any redevelopment were to occur in this area, the Town should support the consolidation of access and egress points which could improve the flow of traffic along the corridor.

Figure 3: Signalized intersections in Stony Brook area (top)
Intersections at Three Village Shopping Center (bottom)

Safety

The New York State Department of Transportation's main objective for Route 25A is to enhance safety for its users while maintaining roadway capacity. The capacity of the roadway needs to be maintained in order to avoid further congestion and using alternative roads. This basic roadway objective was consistently expressed in all of the community meetings. One potential way to do this would be to support designs that slightly reduce traffic speeds on the roadway, while maintaining capacity. Traffic studies have consistently found that low to moderate speeds allow the maximum number of cars to use a roadway (the so-called roadway capacity). As speeds increase, capacity slightly decreases because cars spread out more along the road. The average driver will correctly seek a greater distance from other cars as speed increases.

Priority Intersections

Three intersections along Route 25A were identified by participants as being particularly problematic for motorists and pedestrians: Stony Brook Road, Main Street (Stony Brook), and Nicolls Road (see Figure 4). Participants supported the study of traffic conditions at these intersections to improve vehicular and pedestrian safety and encourage smooth traffic circulation.

There were concerns for pedestrians crossing near the museums on Main Street, where sidewalks and crosswalks are warranted.

NYSDOT recently studied Route 25A at Stony Brook Road and determined that a traffic signal was appropriate. Participants also supported studying the potential for a modern roundabout, both at Nicholls Road and Stony Brook Road, which could be more desirable to a signalized intersection (see Figure 5). Roundabouts have

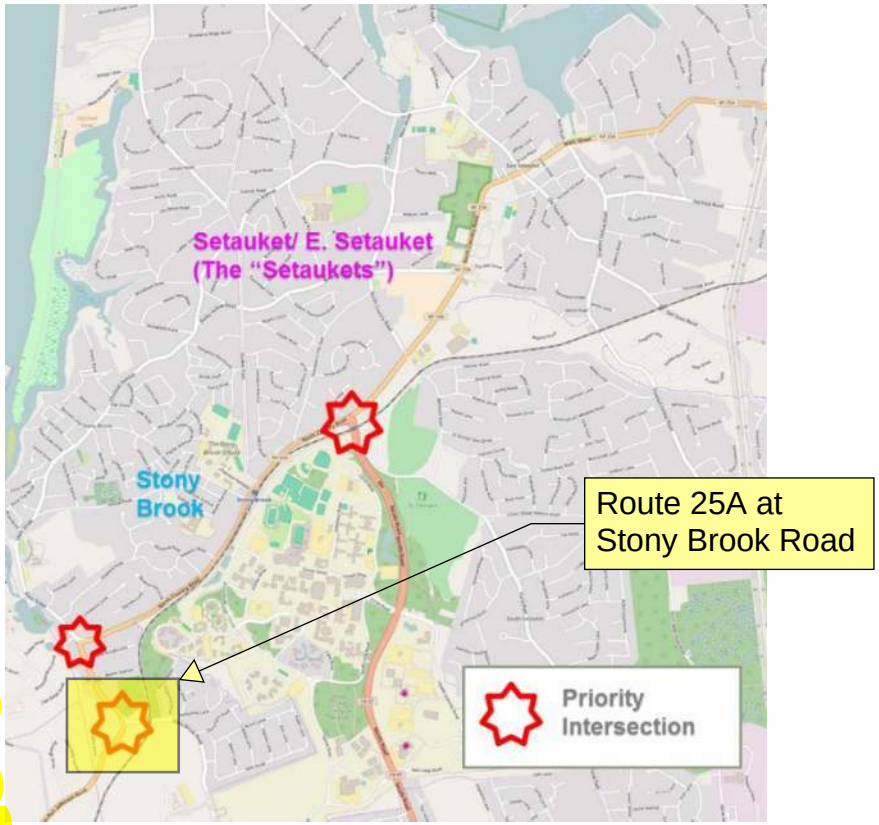


Figure 4: Priority intersections and hotspots for congestion (as cited by residents)

increasingly been accepted in the United States, due to two main factors:

1. Increased capacity and reduced vehicle delay
   A high degree of capacity and fluidity can be achieved by the modern roundabout. When greater capacity is required, relatively simple improvements can be implemented such as widening the entries to provide more than one entry lane, and widening the circulatory roadway.

2. Improved Safety
   Roundabout design has consistently proven to be superior in safety to cross intersections. Reduced speeds alone make impacts less likely and less severe when they do occur. Driver error is less likely because the driver who enters the roundabout must be alert to only one traffic movement – he looks left for an acceptable gap to enter into the flow. By contrast, a driver at a four-way intersection has to deal with two or three different movements. In a roundabout, no driver can run a red light; therefore, right-angle collisions are not possible. The presence of the center island interrupts an otherwise straight path, forcing speed reduction and heightened awareness in the roundabout. It also is worth noting that reduced delays at roundabouts compared to signalized intersections have the effect of decreasing the level of frustration and aggressiveness of drivers.

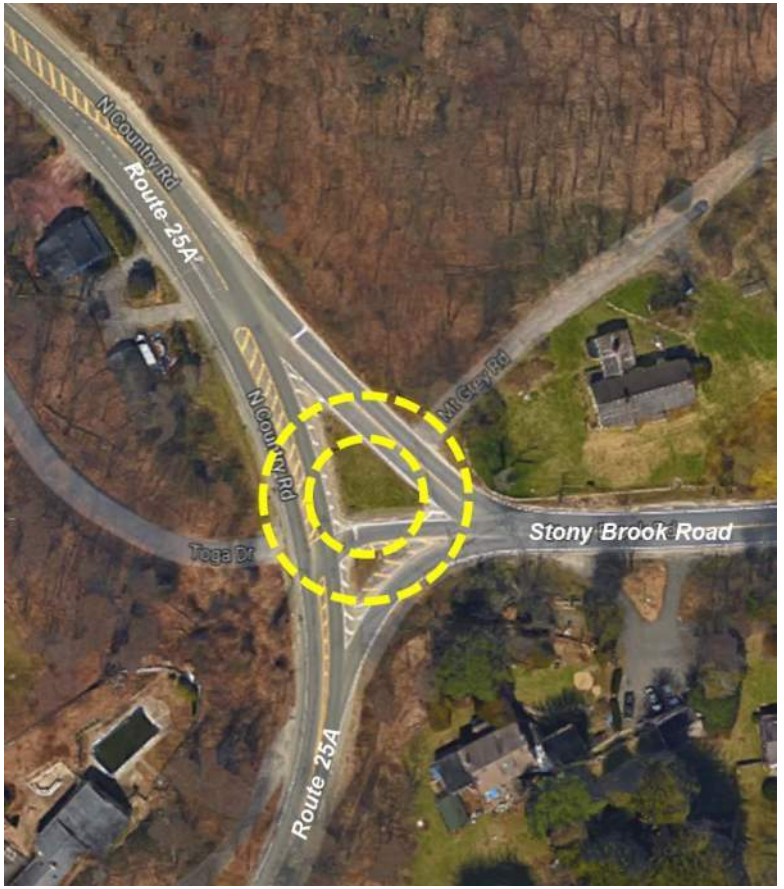


Figure 5: Potential for roundabout at Route 25A and Stony Brook Road

It is important not to confuse the successful modern roundabout with the older traffic circles built in the early- or mid-20th century in the United States. The two main deficiencies of old traffic circles are that 1) entering traffic often had the right-of-way, which tended to cause lock-ups at higher volumes; and 2) the circles were often designed for high-speed entries, increasing the likelihood of accidents and making the old traffic circles dangerous. In contrast, the modern roundabout system of yield-at-entry requires that vehicles in the circulatory roadway have the right-of-way and all entering vehicles

must wait for a gap in the circulating flow. Also, modern roundabouts are designed for slow entry speeds (typically 10 to 20 mph) making them very safe.

The intersection at Route 25A and Nicolls Road was frequently cited as a problematic location for vehicles and pedestrians, and should be evaluated. A roundabout may not be the optimal design due to the width of the intersection and the high volume of turning vehicles, however a traffic study should be conducted to determine the most appropriate intervention. NYSDOT and Suffolk County Department of Transportation (SCDOT) are currently looking at modifications to improve safety for right turning eastbound vehicles on Route 25A. This may include replacing the soft right with a hard right or placing a light at the soft right turn. SCDOT will be doing the reconstruction work (see Figure 6).

It is recommended that if the intersection were to be redesigned, a sidewalk should be added to the west side of Nicolls road, which would connect to the sidewalk on the south side of Route 25A in Stony Brook. Adding the sidewalk may require either the median to be narrowed slightly at the LIRR overpass or the repurposing of the prior soft right turn lane, if removed.

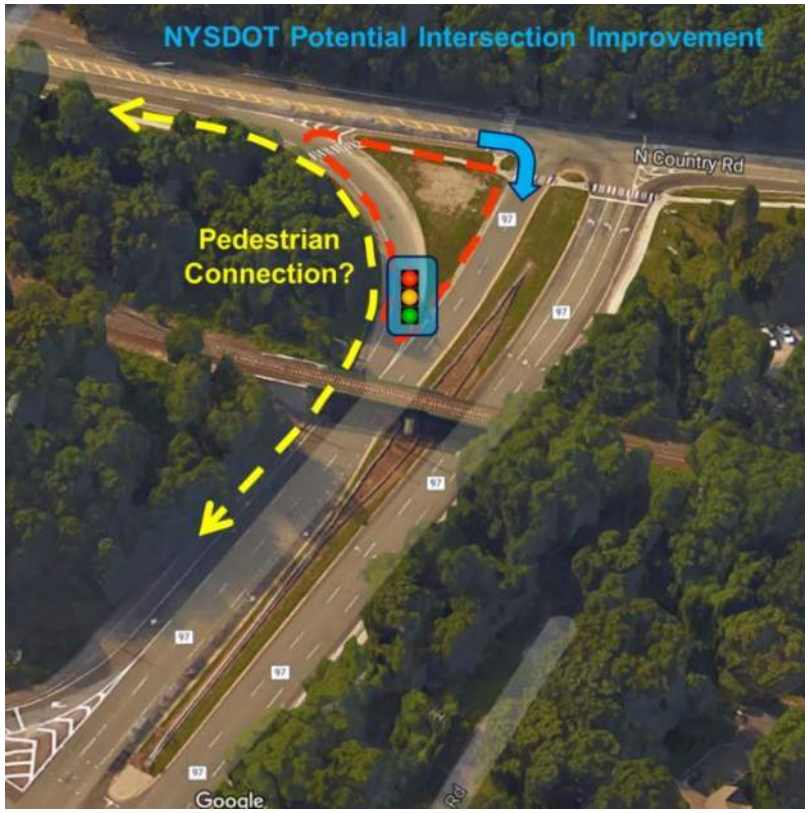


Figure 6: Potential intersection improvements at 25A/ Nicolls Road (top)

Pedestrian and Bicycle Infrastructure

One objective generally expressed by participants in the Visioning workshops was to enhance the safety of all users of Route 25A including pedestrians and bicyclists. Existing sidewalks are shown in Figure 7. Currently, there are many sections along Route 25A that have narrow sidewalks, sidewalks on only one side of the street, and large curb-cuts where no sidewalks are present (e.g. in the section between Nicolls Road and Main Street in Stony Brook). Gaps in the sidewalk network, such as between Hawkins Road and Main Street should be filled.

Improving conditions for biking was also supported amongst community members. There was a safety concern with adding bicycle lanes on Route 25A because of high traffic volumes and speeds. However, safety, accessibility, and efficiency for all users should be promoted when designing or improving a right-of-way, or reviewing site plan or subdivision applications of property fronting the roadway, or in close proximity to the roadway. Where feasible, bike lanes or share-the-lane pavement markings ("sharrows") should be considered for the roadway. In some locations, it may be possible to create an off-road pathway which would be preferred from a safety standpoint. This could be an option for the roadway west of the Stony Brook train station. It was recognized that it may not be possible to do both sidewalk and bicycle lanes in all areas because of the arrangement of the roadway. If this occurs, sidewalks should be given priority as they were deemed to be safer and more inclusive of all population groups.

Additionally, the Town should look to expand bicycle connectivity to the Setauket-Port Jefferson Greenway trail. One desire expressed by residents was to continue the multi-use trail to Nicolls road, connecting it to Stony Brook and the University. It was suggested that this route could continue in the strip of land adjacent to the LIRR right-of-way behind the Woods Corner area.

Setauket-Port Jefferson Greenway Trail (bottom)

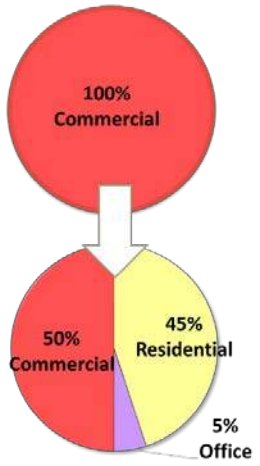
Future Land Use – Opportunity Sites

The issue of land use was more complex and varied compared to the other topics discussed at the visioning meetings. This topic will be explored further by the Town during the Land Use Plan component, which is planned to follow the Visioning Report.

There are three areas along the corridor which sparked the most discussion: the Stony Brook Commercial Area (opposite the LIRR station), Woods Corner, and the Three Village Shopping Center (former King Kullen site). Participants discussed what should be allowed at these sites, for example commercial only development, residential only (i.e. townhomes), or a mix of residential and commercial/office on the same parcel. While some residents were opposed to allowing residential, a majority of participants supported mixed-use (2nd-story residential over 1st floor commercial) or commercial-only development

The benefits of mixed-use development were explained to participants, which include: 1) ensuring an attractive blend of building scales, densities, and purposes (and limiting the risk of single-strip development), 2) encouraging pedestrian use between groups of buildings and thus removing traffic from Route 25A for short trips, 3) creating the potential for fewer paved areas, since parking spaces can be shared among land uses with different peak parking periods, 4) reducing vehicular impacts as mixed-uses generally have less associated vehicle trips than commercial development (at the same density), and 5) giving greater development choices in a retail environment that is being constrained by internet shopping. A component of the future land use plan will be a commercial market demand analysis to evaluate the depth of the market for retail and office space.

An informal questionnaire distributed at the All-Hamlet Report Back meeting helped to understand the general level of agreement or disagreement on these issues. Results are provided in the Appendix to this report. In the Stony Brook area, the redevelopment of underutilized sites and buildings into commercial/office uses received considerable support and mixed uses including residential over commercial was also supported; however, the addition of freestanding residential (e.g. townhomes) split the vote in half. The responses were somewhat similar for Woods Corner and the Three Village Shopping center, where commercial and mixed uses were supported by approximately 70% or more of the community while there was no consensus on freestanding residential



Why provide a mix of uses?

- Helps commercial areas become more competitive
- Reduces traffic impacts (total generation and peak hour)
- Shared parking improves efficiency of parking areas
- Residences add vibrancy, safety, life on the street.

Other Issues and Opportunities

Stony Brook University

Stony Brook University's location in the community directly creates diverse challenges, but also poses unique advantages and opportunities. Many residents work, are enrolled or have taken part in programming at the institution. Students and faculty are also a large customer base for local shopping areas. Participants agreed that while the University is its own entity, it is a large part of the community and should be an involved contributor in visioning efforts for the corridor.

Participants were interested to know more about the role of Stony Brook University in the wider community, specifically what the University's expansion plans were and how student housing would be accommodated. While the school provides a significant amount of on-campus housing some students prefer to live off-campus. Overcrowding of homes by students has reportedly been an issue, which has been a source of friction with residents in the surrounding area. Participants generally supported code enforcement or other modifications to the code to mitigate the impact of student housing on residential neighborhoods.

Stony Brook students are relatively isolated from the surrounding community, particularly those students who live on campus without access to an automobile. On-campus amenities for students such as retail and restaurants are very insufficient to serve the student body. While the Stony Brook commercial area is accessible from the west side of campus, the neighborhood-scaled retail is generally not oriented towards students. Students have asked for access to stores like cafes, supermarkets and other places to congregate within walking distance. Local residents have expressed concern about having additional bars in the Stony Brook commercial area.

Pedestrian access to and from the University is an issue. In Stony Brook, there is only one pedestrian overpass over the LIRR (at the station). Improving the Route 25A/Nicolls Road intersection for pedestrians was strongly supported by both residents and students.

International Baptist Church Property

Discussions centered around minimizing traffic and residential development isolated from the rest of the corridor. An Assisted Living Facility was discussed as a good use because residents typically don't drive and staff comes and goes at varying hours.

STONY BROOK COMMUNITY VISIONING WORKSHOP SUMMARY

The Stony Brook Community Visioning Workshop took place on Saturday, February 4th at the Stony Brook School from 2:00-4:30pm. There were approximately 125 participants in attendance. Prior to this public workshop, a smaller focus group meeting was held in coordination with the local Citizens Advisory Committee (CAC) to outline key issues and opportunities to be addressed at the larger Community Visioning Workshop. The purpose of this public workshop was to engage local residents in the discussion of issues and opportunities specific to Route 25A in Stony Brook. Participants were also encouraged to attend the upcoming public workshop for Setauket and East Setauket on Saturday February 25th and the All-Hamlet "Wrap-Up" meeting on March 4th.

Discussion of Issues and Opportunities

The workshop began with an introduction from Councilwoman Valerie M. Cartright. Representatives from BFJ Planning then discussed the purpose of the project along with a preliminary analysis of planning issues along the corridor, as identified by the Town, the CAC, existing studies and stakeholder meetings. The PowerPoint presentation that was given is attached.

After the presentation, participants were invited to join roundtable discussions concerning a number of themes, including: Transportation (bike, car, bus, railroad), Streetscape (lighting, signage, sidewalks), Architecture and Historic Preservation (design guidelines, facades, building placement), Land Use, Zoning and Development (commercial and residential).

After the round-table discussions were complete, a representative from each table reported back to the entire group the key ideas and themes discussed. Group participants voiced a variety of concerns, comments, and recommendations related to improving the Route 25A corridor in Stony Brook. The key themes were documented on note pads and the group had an opportunity to hear from fellow community members what issues and opportunities had been identified. An outline of the discussion by topics covered is provided below.

- **Transportation**
  - NYS DOT has plans to redesign the intersection of Route 25A and Nicolls Road to create a hard-right turn southbound onto Nicolls Road, to slow traffic and improve pedestrian safety at the crosswalk.
  - Stony Brook Road and Route 25A is a dangerous intersection
    - Potential for roundabout at this location?
  - Congestion at the museum intersection of Rt 25A and North Country Road
    - Improve pedestrian crossing, add automated pedestrian signals & sidewalks
  - Sheep Pasture Rd at Nicolls Rd is another dangerous and challenging intersection
    - Improve pedestrian crossing, continue bike lanes, traffic calming measures
  - Install continuous sidewalks to promote walking
  - Improve and extend infrastructure to accommodate bicycling
  - Congestion leads to speeding, need for traffic mitigation plans
  - Public parking lot at the Stony Brook LIRR train station is an asset to maintain
  - Shuttle bus service could improve access to shopping and provide transportation option to Stony Brook University students whom do not own vehicles
  - Concerns regarding Stony Brook Square project impacting traffic circulation
  - Overall enhancements to sidewalks and pedestrian safety at crossings

- **Streetscape**
  - "Disconnected, hodge-podge, unwalkable, messy, incoherent"
  - General beautification of streetscape primarily through maintenance
  - Improve traffic safety for pedestrians with continuous and wider sidewalks
  - Address public safety by adding "call boxes" that connect to local police
  - Add enhanced lighting to improve safety and visibility at night

- Landscaping and trees to provide buffer from traffic and noise
- Improved and continuous bike lanes to enhance safety
- New developments to require parking behind stores and reduce curb cuts
- Clear and consistent signage and wayfinding to highlight history and character
- Commercial downtown with walkable Main Street for shopping, restaurants, etc.
- No strip mall developments with big parking lots in front of stores
- Setbacks are important to buffer from the road and provide public spaces
- Collegiate feel blended with the local community

- **Architecture and Historic Preservation**
  - Support for design guidelines that would establish consistent architectural style and preserve historic structures
  - Coherence yet variety for building facades and signage
  - Support for buildings being located closer to the road/sidewalk with parking behind in the rear (in commercial zones)
  - Building setbacks with landscaping for residential
  - Support for existing J2 and J4 zones - three-story max (35') building height
  - No consensus on residential over stores (J6 zoning)
  - Maintain and promote historic aesthetic
    - E.g. Federalist style, Grist Mill, Stony Brook Village Center, Stony Brook School

- **Land Use, Zoning and Development**
  - Baptist Church property could provide housing for Stony Brook graduate students, senior housing, or perhaps mixed-use commercial development
    - No conclusions were arrived at in this discussion
  - No consensus on whether apartments over stores (mixed use) is appropriate in commercial area. Concern

about use for undergraduate student housing.

- Discussion about whether LIRR train station area could support mixed commercial and residential.
- Woods Corner property is another location that could be considered for redevelopment including a mix of commercial and residential uses.
- Desirable business types could include neighborhood oriented stores (i.e. groceries, restaurants, hardware store, pharmacy, etc.)
- Mention was made of looking at other good examples of development along Route 25A. Cold Spring Harbor and Stony Brook Hamlet were both cited.
- Stony Brook Square development (including yellow Hawkins houses) is an 'as of right' development, zoning was changed approximately ten-years ago.
    - More information available at: www.stonybrooksquare.com

Conclusion

The round table group presentations came to a close with final remarks from Councilwoman Cartright regarding the Stony Brook Square development project, as well as information regarding the next Setauket and East Setauket Visioning Workshop on Saturday, February 25th and the All Hamlet Wrap-up Meeting on March 4th. Participants were also asked to fill out Comment Card on their way out if there were any remaining ideas not mentioned, additional suggestions and/or concerns to be included in the Visioning Report.

SETAUKET AND EAST SETAUKET COMMUNITY VISIONING WORKSHOP SUMMARY

The Stony Brook Community Visioning Workshop took place on Saturday, February 25th at the Stony Brook School from 10:00am-1:00pm. There were approximately 80-100 participants in attendance. Prior to this public workshop, a smaller focus group meeting was held in coordination with the local Citizens Advisory Committee (CAC) as well as a Setauket and East Setauket Focus Group to outline key issues and opportunities to be addressed at the larger Community Visioning Workshop. The purpose of this public workshop was to engage local residents in the discussion of issues and opportunities specific to Route 25A in Setauket and East Setauket. Participants were also encouraged to attend the upcoming All-Hamlet "Wrap-Up" meeting on March 4th.

The workshop began with an introduction from Community Advisory Committee (CAC) representative, George Hoffman, as well as remarks from Supervisor Ed Romaine and New York State Assemblyman, Steve Englebright. BFJ Planning then discussed the schedule, project timeline, and presented a preliminary understanding of planning issues along the corridor based on previous community meetings.

Discussion of Issues and Opportunities

After the presentation, BFJ moderated a short discussion with the entire audience to identify key opportunities along the corridor. This discussion was not comprehensive, but was intended to get residents thinking about how to approach the smaller roundtable discussions, which would provide an opportunity to discuss each of the issues in detail.

Participants then chose to join one of five roundtables, each with a central topic area, including: Transportation (bike, car, bus, railroad), Streetscape (lighting, signage, sidewalks), Architecture and Historic Preservation (design guidelines, facades, building placement), Land Use and Zoning (commercial and residential), and a general table which covered all topics of interest.

At each table, participants discussed concerns, comments, and recommendations related to the improving the corridor. Key themes and ideas were documented and were reported back by a volunteer from the group. A summary of the discussion topics is provided in this document.

After the "report back" session, participants were invited to vote with stickers on those issues that came up that were most important to them. While the "Dot Point Exercise" is not a scientific survey, it was helpful to get a rough idea for which issues are more important, which have consensus, and which need further investigation.

Summary of Discussion Themes

What are boundaries of hamlet area?

Within the three village area, the intersection of Nicolls road and Route 25A was agreed by many residents to be the border between the hamlets of Stony Brook and Setauket. However, there was no agreement on a clear boundary between Setauket and East Setauket. It was mentioned that a boundary definition may not be necessary and the area could simply be referred to as the "Three Villages".

Transportation

Reduce congestion along Route 25A

Congestion mitigation and pedestrian safety were some of the most critical issues for residents regarding transportation along Route 25A. There was general consensus that a comprehensive review of the traffic signal timing could benefit traffic flow and improve level of service for the corridor. There was also general consensus regarding maintaining the existing width of Route 25A; no support for widening the corridor was found. It was pointed out that this could lead to continued congestion along the corridor. The preservation of the existing built form (building case to the street) along the corridor was considered to be more important alleviating congestion. Another transportation aspect for consideration by participants was the support for determining the feasibility of implementing a roundabout at the intersection of Stony Brook Road and North Country Road in Stony Brook, south of the Baptist Church property; as many residents cited this location to be dangerous and in need of redesign.

Walkability: Improve conditions for pedestrians and bicyclists along 25A

Another primary concern for residents was the lack of continuous sidewalks along Route 25A, as the three village residents are interested in opportunities for walking to shopping and other destinations along the corridor. Bicycling was also cited as an area of interest and residents requested for safer street design to accommodate bicycling as well as the continuation of the existing Greenway trail to support bicycle trips as another active mode of travel for Stony Brook students as well as local residents. The

intersection of Nicolls road and Route 25A was also discussed as a priority for improvements to vehicular and pedestrian conditions. There is potential for a sidewalk to be installed on the west side of Nicolls Road under the LIRR overpass that would connect Sheep Pasture Road to Route 25A if the current plans could be modified to narrow the median of Nicolls Road under the railroad bridge. This could make room for a sidewalk on the west side of the roadway.

Improve public transportation

As alternatives to driving personally owned vehicles, residents expressed interest in improvements to existing bus service, and the addition of bus pull-over areas to allow to traffic to pass at bus stop areas. Residents also requested the introduction of a trolley service for Stony Brook students and residents to access shopping and other destinations along Route 25A. Participants would like to see improvements to Long Island Railroad (LIRR) service as well as improved access to the train stations.

Encourage more connectivity with Stony Brook University

The potential for enhanced access and connectivity to the Stony Brook University campus was also discussed as a priority. Participants also cited additional commuter parking as a desirable improvement.

Land Use and Zoning

Support for design guidelines to promote architectural continuity

Many residents expressed support for the adoption of Design Guidelines to include overlay districts in the zoning code which would preserve and establish greater consistency in the architectural character along the Route 25A corridor.

General support for appropriate development of underutilized shopping areas

There are several underutilized buildings in commercial areas that could provide opportunities for redevelopment, including:

- Three Village Shopping Center (King Kullen site)
- Woods Corner
- Setauket Harbor Pond area

Some participants were in support of mixed-use developments (residential/commercial) in these shopping areas; while others expressed that other land use arrangements could be considered including residential only (i.e. townhomes or mixed use with residential on upper floors only). There was not a clear consensus on this issue.

Keep scale and character of area

Participants expressed general support for bringing store-fronts closer to the sidewalks and roadway, and rearranging the parking to be located behind the buildings. Some residents voiced concerns regarding student housing and market rate housing.

Architecture & Historic Preservation

One of the key characteristics of the Three Village area is the historic architectural characters and many expressed interest in preservation of the federalist style buildings in particular. Design guidelines were once again mentioned as a possibility to create consistency for architecture and signage along the corridor.

Several 'good examples' of architecture were listed throughout the community, including the Methodist Church, Post Office, Medical building (Doctor's office on S. Jersey), and Brewster House. Buildings with a 'negative' aesthetic quality mentioned by participants included the Apple Bank, Woods Corner area, vacant building at Gnarled Hollow & Route 25A. Participants expressed interest in future Design Guidelines outlining types of materials in particular.

Streetscape

Lighting, signage, continuous sidewalks and bike lanes were all topics cited that could benefit from maintenance and improvements within the streetscape discussion group. Safety was another key item of discussion that residents feel could be addressed via these improvements.

Need for civic space, parks for gathering, picnics, etc

Assemblyman Englebright highlighted the potential for improved access to waterfront features and the addition of more public spaces for community gatherings in his introductory speech regarding the history of the Town of Brookhaven along the Route 25A corridor. The Setauket Harbor Pond area in particular was originally intended as the 'center of town' as outlined in Ward Melville's plan in the 1930s. This area has also be identified as a potential site for enhanced public spaces and a kayak boat launch. Many participants support the creation of passive parks and trails in Patriot's Hollow (DEC forest). Other family relates uses, such as a community center or YMCA, should also be considered for addition to shopping center areas.

Improve gateways

Enhancements to the 'gateways' of each of the three hamlets was also mentioned as an attractive proposal that could include landscaping, traditional style signage and lighting consistent with the area's character.

Improve lighting and signage. Better maintenance of grass areas and landscaping (e.g. trees, garden, vegetation, greenery).

Landscaping to include trees, bushes, flowers, other vegetation and greenery can serve as a beautification tool and create a sense of place through seasonality. Landscaping can also be used as a visual buffer between the roadway and adjacent properties. The Woods Corner area could also benefit from moving the powerlines back or below ground to improve sightlines from residences nearby.

The law offices of Glynn and Mercep at the corner of N. Country Road and Route 25A was identified as a good example of well-kept landscaping.

"Dot Point Exercise" Summary

After the roundtable discussion sessions, and presentations of key themes from each of the working groups, attendants were asked to participate in a 'Dot Point Exercise' in which each person was given three blue dots to place next to key themes that were identified in order to show their support for specific ideas or recommendations. It is important to note that the Dot Point Exercise is not a scientific measure, but rather is a helpful tool to understand which issues are most important, which have consensus, and which need further investigation. There were many topics that showed support from residents; the topics below seemed to have the most support:

- Design guidelines for continuity of architectural styles & signage
- Maintain the existing width of Route 25A, do not widen road
- Reducing congestion along Route 25A, review signal timing
- Investigate possibility for trolley service for University students as well as residents
- Implement continuous sidewalks and bike lanes along 25A to improve safety
- More parks, civic spaces, and family friendly centers (e.g. Patriot's Hollow, YMCA, etc.)
- Improve landscaping and maintenance of vegetation/greenery
- Enhance connectivity to Stony Brook University, including more access points and parking
- Bury the power lines to restore views and sightlines

Informal Questionnaire

In the All Hamlet Report Back meeting, a short questionnaire was distributed to attendees to get a snapshot of general levels of agreement or disagreement on certain issues. Participants also had a chance to comment, which were incorporated into the questionnaire summary. It is important to recognize that the sample size was limited to participants at the meeting and was thus not a representation of the wider community.

Questionnaire Responses

1) Do you live in: Stony Brook (45%), Setauket (27%), East Setauket (27%), Elsewhere (2%)

2) How many years have you lived here? 0-5 years (11%), 5-10 years (2%), 10-20 years (13%), 20+ years (74%).

Transportation

3. Do you agree that Route 25A should not be widened (maintain width as is)? Yes (67%), No (33%)

4. Are you in favor of continuous sidewalks along 25A to improve safety conditions? Yes (98%), No (2%)

5. Are you in favor of improving conditions for bicyclists (with bike lanes in the shoulder, sharrows, or off-road paths) where feasible? Yes (90%), No (10%)

6. Should the Town study potential intersection improvements (e.g. a roundabout) to improve safety and circulation at:
   a. Stony Brook Road and North Country Road? Yes (93%), No (7%)
   b. Main Street and Route 25A? Yes (75%), No (25%)
7. Do you support the idea of a trolley service for Stony Brook University students and residents? Yes (73%), No (27%)

8. Are you in favor of the idea for a “scoot” train service on the LIRR between Stony Brook and Port Jefferson Stations? Yes (55%), No (45%)

Summary of Questionnaire and Town Hall Meeting

Transportation

Congestion mitigation and pedestrian safety were priority issues for participants. Measures which had broad support include: improved and continuous sidewalks, safe bicycle lanes, and public transportation options, such as a trolley bus. The potential for a short "scoot" train service had nearly split results 55% in favor and 45% opposed. It was explained that this service was unlikely due to capacity constraints on the existing railroad infrastructure.

The community previously advocated for the New York State Department of Transportation (NYS DOT) to complete a study at the intersection of Route 25A and Stony Brook Road. In 2015, DOT determined a traffic light was appropriate for this intersection. Residents expressed interest in the consideration of a roundabout at this location.

Participants discussed the problematic aspects of the Route 25A Nicolls Road intersection. Some issues have to do with the high speed weaving of vehicles, which is necessary to make a left turn lane onto Sheep Pasture Road. There was support for an inclusion of a sidewalk on the west side of Nicolls Road, underneath the LIRR overpass. Some additional ideas that came up in the Town Hall meeting, include:

- Potential to reopen Old Setauket railroad station. The station was closed prior to increase in development on corridor. The location abuts greenway trail and could emphasize pedestrian and bike accessibility to alleviate traffic on 25A.
- Consider modifying the Route 25A/Nicolls Road intersection so the soft right is an entrance to Stony Brook University only.
- Consider off-road pathway as part of Woods Corner redevelopment that could connect to Greenway Trail. This could potentially continue to Stony Brook University campus
- Plan should consider potential impacts of driverless cars, shared cars, and taxi services (i.e. Uber and Lyft) which will reduce traffic and parking needs.
- Make shopping areas more pedestrian friendly.

Architecture

The majority of participants expressed support for design guidelines that promote continuity and high quality treatments for buildings and the streetscape. The Federalist style was supported for Stony Brook. There was a mix of opinion about whether buildings in Setauket and East Setauket should encourage the existing typology of two-story mixed use buildings. Some supported colonial or federal style for this area.

There was general support to bring buildings closer to the sidewalk and street, with parking behind the buildings. Respondents generally did not support allowing gas stations and auto related uses along the Route 25A corridor; however more respondents

viewed these uses favorably if they had attractive entrances, signage, and landscaping. Some additional ideas that came up in the questionnaire include:

- Use differences in architectural style to define Stony Brook (Federalist) vs. Setauket (New England style – colonial).
- Preserve historic character of North Country Road.

Land Use

The issue of land use was more complex and varied compared to the other topics. In the Stony Brook area, the redevelopment of underutilized sites and buildings into commercial/office uses received considerable support, mixed uses including residential over commercial was also supported; however, the addition of freestanding residential (e.g. townhomes) split the vote in half. The responses were somewhat similar for Woods Corner and the Three Village Shopping center, where commercial and mixed uses were supported by approximately 70% or more of the community while there was no consensus on freestanding residential

The majority of respondents were in support of the idea for potentially increasing density for buildings that comply with design guidelines (e.g. from 35% to 40% FAR).

Many residents expressed the need for more housing options at various cost levels so that they can stay in the area as they age and families grow.

Residents expressed concerns about the Stony Brook Square project and enquired if design standard may still be open for public comment. The CAC responded that they have already submitted comments on the project and these considerations will be incorporated into the design. Participants also highlighted the desire for a community center/civic space to be included in the Three Village Area Vision Report. The site could include a community center, non-profit, and incubator spaces. The Three Village Shopping Center at the former King Kullen site was identified as a possible location for an office/meeting space for non-profit/institutional uses, which could include a community center

Streetscape Conditions

As discussed in prior visioning meetings, improving the streetscape is very important. Specifically, safety improvements for pedestrians should be prioritized (e.g. at the intersection of Route 25A and Nicolls Road). Residents would like to see sidewalks and improved crossing conditions throughout the Three Village area.

The issue of the existing width of Route 25A potentially not being able to accommodate both pedestrian and bicycle facility improvements was raised. It was stated that pedestrians should be the priority use, as sidewalks are more inclusive overall, and may invite people of all ages (including parents with strollers). It was also stated that foot traffic is better for shopping and may have a positive impact on business revenue. However, improving conditions for bicyclists is also an important issue to make biking

safer, more enjoyable, and to reduce congestion on the roads. Some additional ideas that came up in the survey, include:

- Maintenance of sidewalks and streetscape furniture is an important issue
- Planters and flowers along 25A is a great idea for beautification
- Bury overhead utilities

Stony Brook University

Participants were interested to know more about the role of Stony Brook University in the wider community, specifically what the University's expansion plans were and how student housing would be accommodated. While the school provides a significant amount of on-campus housing some students prefer to live off-campus.

Other issues

Communication between various public agencies (e.g. DOT, LIRR, etc.) may be complicated but essential for service improvements. It was requested that more attention be placed on improvements to above ground utilities to improve aesthetics. Sewage and groundwater were also cited as critical issues that must be addressed. The Three Villages have iconic architectural character, access to water features, and a quaint village atmosphere that should be preserved and highlighted in future decisions for the area.

APPENDIX I:

NYSDOT CORRESPONDENCE RELATED TO ROUTE 25A-MILLS POND ROAD NEW TRAFFIC SIGNAL

(ASSOCIATED WITH PRIOR APPLICATION)

CAMERON ENGINEERING & ASSOCIATES, LLP

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Woodbury, NY 11797
(516) 827-4900

260 Madison Avenue, 8th Floor
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"LEED Accredited Professionals"

Active Member of
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Managing Partner
John D. Cameron, Jr., P.E.

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Partners / Principals
Mark Wagner, CEP
Janice Jijina, P.E., AICP
Nicholas A. Kumbatovic, P.E.
Kevin M. McAndrew, R.L.A.
Alan J. King, Jr., P.E.

Senior Associate
Glenn DeSimone, P.E., CPE

Associates
Robert E. Wilkinson, P.E.
Steven R. Giammona, P.E.

August 6, 2010

Ms. Karen Taylor
New York State Department of Transportation
250 Veterans Memorial Highway
Hauppauge, NY 11788

Re: Gyrodyne Company of America
Southeast corner of Route 25A and Mills Pond Road, St. James, NY
SCTM No. 0800-04000-0200-4, 13.3,14, and 15
NYSDOT Case No. 07-073 P
CE 338A

Dear Ms. Taylor:

Thank you for meeting with me yesterday to discuss the Gyrodyne application. To recap our discussion, Gyrodyne proposes a mixed single/multi-family age-restricted residential development on property which fronts NYS Route 25A and Mills Pond Road in the Town of Smithtown.

In prior correspondence dated September 30, 2007, NYSDOT had required the following access plan:

- Install a traffic signal at the intersection of Route 25A and Mills Pond Road
- Main site access on Mills Pond Road
- A "rights in, rights out only" driveway on Route 25A

Recently, the Town of Smithtown has proposed a different access plan (access solely on Route 25A, and no access on Mills Pond Road) and suggested that we meet with the Department.

Our client is willing to proceed with the Gyrodyne project containing either access scenario.

As discussed yesterday, please provide our office with the Department's suggested access for this project.

Should you have any questions or require additional information, please do not hesitate to contact me at (516) 827-4900 extension 264.

Very truly yours,

Alan J. King, Jr., P.E., LEED AP
Partner

AK/lb
cc: Peter Pitsiokos, Gyrodyne Company of America
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DEPARTMENT OF TRANSPORTATION
STATE OFFICE BUILDING
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SUBIMAL CHAKRABORTI, P.E.
REGIONAL DIRECTOR

STANLEY GEE
ACTING COMMISSIONER

3C; Alan

October 29, 2010

Mr. Alan King Jr., P.E.
Transportation Department Manager
Cameron Engineering & Associates, LLP
100 Sunnyside Boulevard, Suite 100
Woodbury, NY 11797

Gyrodyne Company of America
Route 25A, St. James
SCTM 0800-04000-0200-4, 13.3, 14, & 15
Our Case No. 07-073 P

Dear Mr. King:

This is in response to your letter of August 6, 2010 in regards to the subject site. We maintain our position in regards to site access plan as described in our September 20, 2007 letter (enclosed). The access for this site should be as follows:

- Install a traffic signal at the intersection of Route 25A and Mills Pond Road
- Main site access is to be Mills Pond Road
- A "rights in / rights out only" driveway on Route 25A

A Highway Work Permit from us is necessary prior to performing any work within the Route 25A right-of-way. Please submit detailed site plans (six (6) sets) to our office to continue the Highway Work Permit application process.

In all future correspondence, please refer to the subject case number. The plans must also include the County tax map number.

Review of the subject material is being coordinated by Ms. Karen Taylor. She can be contacted at (631) 952-6014 if you have any questions regarding this matter. Please send all correspondence to her attention.

Thank you for your cooperation.

Very truly yours,

SHAIK A. SAAD, P.E.
Civil Engineer III
Traffic Engineering and Safety

cc: Mr. Daniel Ryan, Superintendent of Highways, Town of Smithtown
Mr. Mitchell Crowley, Director of Traffic & Safety, Town of Smithtown
Mr. Francis DeRubeis, Planning Director, Town of Smithtown
Mr. Mark Riley, Engineering Department, Town of Smithtown

SS:KT:sme

STATE OF NEW YORK
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SUBIMAL CHAKRABORTI, P.E.
REGIONAL DIRECTOR

ASTRID C. GLYNN
COMMISSIONER

September 20, 2007

Mr. James W. O'Callaghan, P.E.
Senior Transportation Manager
Cameron Engineering & Associates, LLP
100 Sunnyside Blvd, Suite 100
Woodbury, NY 11797

Your March 30, 2007 submission
Gyrodyne Co. of America
Route 25A, Smithtown
Suffolk No. SM-07-01
SCTM 0800-04000-0200-4, 13.3, 14 & 15
Our Case No.07-073 P

Dear Mr. O'Callaghan:

This is in regard to the concept site plans for the referenced project which were submitted to us for review. Our preliminary comments are as follows:

1. In recent years, many states have employed access management as a major technique to address conflicts between through traffic and that generated by developments. The goals of access management are to limit the number of access points, separate conflict points and remove turning traffic from through movements. New York State is utilizing this technique to minimize impacts to State highways. We recommend, therefore, that cross access to this site be obtained from adjacent developments. If this is not presently possible, it should be shown on the plans for implementation as part of future redevelopment.

2. Please add a note to the plans stating that NYSDOT currently has a project planned for the subject area of Route 25A. It is PIN 0327.95 (NY25A & Mills Pond Road Drainage Improvement) which has a letting date of November 2009. This project should coordinate with the DOT project.

3. We concur with County of Suffolk that the layout of this development should be redesigned so that the main entrance to this property is into Mills Pond Road, especially since a new traffic signal at the intersection of Mills Pond Road and Route 25A is proposed in the Traffic Study.

4. The developer should install the proposed signal on Route 25A at Mills Pond Road. This intersection should be reconfigured to accommodate the left turning vehicles to and from the site via Mills Pond Road. The proposed entrance / exit driveway on Route 25A should operate as a "right turns in" and "right turns out" only. Left turn lane into the property will not be permitted.

5. We note that during heavy rainstorms, Mills Pond swells and completely floods Route 25A which requires road closures and extensive pumping across private property. We would like to see this issue addressed under this proposal.

6. It is mentioned in the study that the redeveloped site will have three (3) access points and an emergency access on Route 25A. However, the Site Master Plan only shows two (2) access points, one on Route 25A and the other on Mills Pond Road, in addition to one (1) Emergency Access Gate. It looks, according to the study, as if the back of the site may be used by community residents to get to the SUNY campus. If so, coordination with the LIRR will be needed.

7. With the addition of new lanes and pavement markings, Maintenance and Protection of Traffic (MPT) schemes must be provided, to accommodate these operations.

8. Any utility work proposed in State Highway right-of-way will require separate application and submission of plans (installation details, restoration details and Maintenance and Protection of Traffic plan - all referenced to NYSDOT specification item numbers and the Manual of Uniform Traffic Control Devices) to our ***Central Islip*** Maintenance facility. The applicant may contact Mr. ***Gary Hills at (631) 231-6860*** for further directions regarding Utility Highway Work Permit (HWP) applications. The applicant should be made aware that utility HWP issuance is subject to issuance of the HWP required for site work.

9. Please submit eight (8) sets of detailed site plans, including all items outlined in our "Site Plan Requirements Check List" (enclosed).

Review of the subject material is being coordinated by Ms. Karen Taylor. She can be contacted at (631) 952-6014 if you have any questions regarding this matter. Please send all correspondence to her attention. Kindly refer to the subject case number and County tax map number in all correspondence.

Very truly yours,

SHAIK A. SAAD, P.E.
Civil Engineer III
Traffic Engineering and Safety

cc: Mr. Andrew P. Freleng, AICP, Chief Planner, Department of Planning
(Suffolk County Department of Planning, PO Box 6100, Hauppauge, NY 11788-0099)
Mr. Daniel Ryan, Superintendent of Highways, Town of Smithtown
Mr. John Moore, Traffic Engineer, Town of Smithtown
Mr. Francis DeRubeis, Director, Planning Department Town of Smithtown
Mr. Mark Riley, Engineering Department, Town of Smithtown
Mr. Robert Bonerba, Chief Building Official, Smithtown Building Department

SAS:KT:JMN

SITE PLAN REQUIREMENTS CHECKLIST:

X A. Location and dimensions of existing highway pavement, curb, sidewalk, median, median openings, guide rail, utilities, signs (including size and text), pavement markings, bus stops, overhead and underground traffic signal equipment, right-of-way lines, controlled access lines and property lines.

X B. Existing and proposed buildings, appurtenances and any drive-in windows. Development plans must account for full build-out of site.

X C. Location and dimensions of all proposed utility connections, both subsurface and overhead, for all site development. All details must account size, depth & location of proposed utilities, as well as excavation pits, construction access, and erosion control. All plans must be referenced to AS-BUILTS for all DOT Features. Installations are to be designed in accordance with 17 NYCRR Part 131, Accommodation of Utilities Within State Highway Right-of-Way, and NYSDOT Highway Design Manual Appendix13b.

X D. Design features, referencing the latest edition of the NYS Standard Specifications, to be incorporated in proposed work:

- X 1. Driveway pavement type and dimensions.
- X 2. Radii of driveway returns and other points of curvature.
- X 3. Driveway grades or profiles, indicating low point on private property.
- X 4. Angle of driveways relative to roadway center line.
- X 5. Dimensions of roadside control islands and driveway medians.
- X 6. Dimensions of curb and sidewalk relative to pavement edge.
- X 7. Details of internal traffic circulation, including proposed signs, pavement markings and traffic signal equipment.
- X 8. North arrow and scale on each applicable sheet.

X E. Size, type and grade of existing and proposed drainage features. All runoff must be contained on site. Runoff onto the NYS Right of Way will not be permitted.

X F. Distance from each existing and proposed driveway to each adjacent driveway and cross street, including adjacent property lines and streets and driveways opposite the site.

X G. Maintenance and protection of traffic plans designed in accordance with NYSDOT MUTCD and NYSDOT Specifications. The plan must include the note "All lanes must be open to traffic before 10 AM and after 3 PM. No lane closings are permitted on weekends or holidays. Nighttime lane closings will not be permitted without prior approval from the State Permit Inspector."

__H. Traffic signal plans must be shown on a separate sheet including pavement markings, turn lanes, driveways, sidewalks and pedestrian ramps, crosswalks, buildings, poles, power supply, pullboxes, conduit, controller, head layout including face numbering, detection, right-of-way lines and signing. All work must be referenced to the latest edition of the NYS Standard Specifications. The plans must show existing features, such as drainage and utilities, which may conflict with the proposed signal. Tables of Operations, Clearances, Switchpacks, Input Wiring and Loop Wiring must be included along with a Phasing Diagram and Estimate of Quantities.

X I. Aerial photograph of the site and environs.

X J. Beginning and ending reference markers.

X I. Plan size should not be larger than 24x36.

APPENDIX J:

PRELIMINARY SUBDIVISION PLAN

SEE POCKET INSERT

LAND USE LEGEND:

- MEDICAL OFFICE
- HOTEL
- ASSISTED LIVING
- CATERING
- LIGHT INDUSTRIAL
- COMMON OWNERSHIP AREA
- SUBDIVISION ROADWAY
- ROADSIDE SWALE
- STP SITE
- STP BUILDING

LEGEND:

EXISTING LOT LINE

PROPOSED LOT LINE

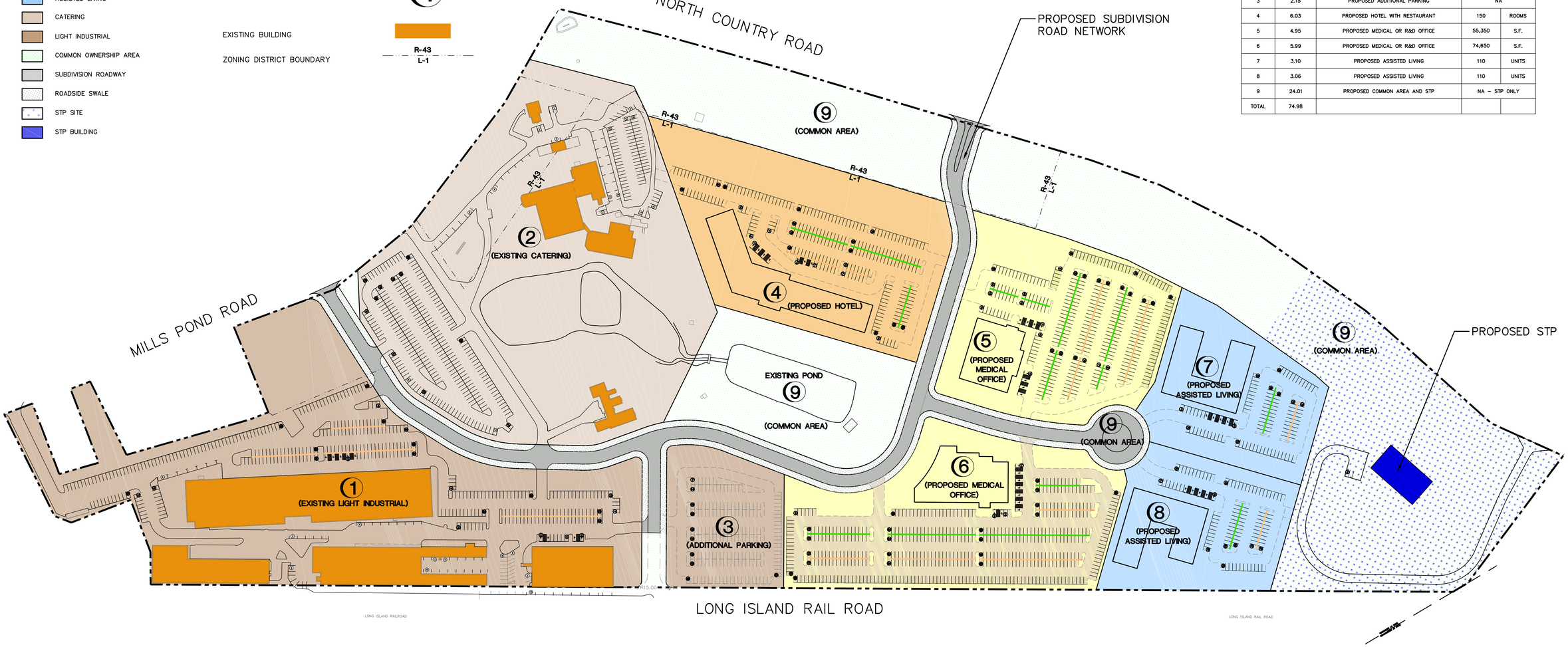
PROPOSED LOT NO. — ①

EXISTING BUILDING

ZONING DISTRICT BOUNDARY — R-43 / L-1

EXISTING AND PROPOSED DEVELOPMENT DATA

LOT NUMBER	LOT SIZE (ACRES)	LAND USE	BUILDING SIZE/YIELD	
1	12.75	EXISTING MIXED-USE BUILDINGS	132,719	S.F.
2	12.94	EXISTING CATERING HALL	34,685	S.F.
3	2.15	PROPOSED ADDITIONAL PARKING	NA	
4	6.03	PROPOSED HOTEL WITH RESTAURANT	150	ROOMS
5	4.95	PROPOSED MEDICAL OR R&D OFFICE	55,350	S.F.
6	5.99	PROPOSED MEDICAL OR R&D OFFICE	74,650	S.F.
7	3.10	PROPOSED ASSISTED LIVING	110	UNITS
8	3.06	PROPOSED ASSISTED LIVING	110	UNITS
9	24.01	PROPOSED COMMON AREA AND STP	NA – STP ONLY	
TOTAL	74.98			



MIXED USE CAMPUS DEVELOPMENT PLAN

FOR

GYRODYNE, LLC

TOWN OF SMITHTOWN
SUFFOLK COUNTY, NEW YORK

JULY 2018

CAMERON ENGINEERING & ASSOCIATES, LLP
177 Crossways Park Drive, Woodbury, NY 11797 T: (516) 827-4900
45 West 36th Street, 3rd Floor, New York, NY 10018 T: (212) 324-4000
303 Tarrytown Road, 1st Floor, White Plains, NY 10603 T: (914) 723-8300
Corporate Seal Initiated 1996 State of New York
www.Cameronengineering.com

GRAPHIC SCALE
100 0 50 100 200
(IN FEET)
HORIZ. 1 inch = 100 ft.

Appendix G:

Archaeological Reports

Note: The data in this Appendix was prepared for the 2008 proposed DEIS

A STAGE 1A ARCHAEOLOGICAL SURVEY

FOR THE

GYRODYNE COMPANY OF AMERICA

PROPERTY IN SMITHTOWN

ST. JAMES, TOWN OF SMITHTOWN

SUFFOLK COUNTY, NEW YORK

Prepared by:

David J. Bernstein, Ph.D.
Daria E. Merwin, M.A.

The Institute for Long Island Archaeology
Department of Anthropology
State University of New York at Stony Brook
Stony Brook, New York 11794-4364

April 2002

ABSTRACT

This report presents the results of a Stage 1A archaeological survey performed for the Gyrodyne Company of America property in St. James, Town of Smithtown, Suffolk County, New York. The study was conducted by the Institute for Long Island Archaeology at the State University of New York at Stony Brook. The project area consists of approximately 145 acres (58.7 hectares) which are scheduled to be impacted by construction. The Brookhaven portion of the Gyrodyne property was surveyed in 1998 by Jo-Ann McLean.

Based on a search of archaeological site files, a consideration of environmental characteristics, a field inspection, and prior archaeological research on the Gyrodyne property, most of the project area has a moderate sensitivity for the presence of both prehistoric and historic period archaeological deposits. However, certain areas have a high sensitivity for the presence of archaeological remains. These include the northwest corner (approximately 20 acres [8.1 hectares]) of the project area where three fresh water ponds are located, and both a prehistoric site (the Mills Pond site) and a historic period site (the nineteenth century Bailey domestic site) were encountered during a recent survey conducted in advance of possible road improvements at the junction of Mills Pond Road and New York State Route 25A. In addition, sensitivity for historic remains is high in the vicinity of map documented structures elsewhere in the project area, especially along Mills Pond Road and New York State Route 25A.

A Stage 1B subsurface archaeological survey is recommended for the property. It is recommended that all undisturbed portions of the Gyrodyne property in Smithtown be tested using a standard 15 by 15 meter (49 by 49 foot) grid. Approximately 35 of the 145 acres of the project area have been thoroughly disturbed by twentieth century building construction, cutting/filling/grading for extensive paved parking lots and roads, heliport and recharge basin construction, and other earth-moving activities, and therefore will not require subsurface testing. The remaining 110 acres (44.5 hectares) should be subject to subsurface testing. It is estimated that between 1500 and 1800 shovel test pits will be required for the Stage 1B archaeological survey of the Gyrodyne property in Smithtown.

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LIST OF FIGURES AND TABLE

INTRODUCTION

This report presents the results of a Stage 1A archaeological survey performed for the Gyrodyne Company of America property in Smithtown, in the hamlet of St. James, Town of Smithtown, Suffolk County, New York (Figures 1 and 2). The study was conducted by the Institute for Long Island Archaeology, State University of New York at Stony Brook. The project area is located south of New York State Route 25A (North Country Road), east of Mills Pond Road, and west of the Smithtown/Brookhaven town boundary (Figures 2 and 3). The parcel consists of approximately 145 acres (58.7 hectares), which may be impacted by new construction. The portion of the Gyrodyne property in the Town of Brookhaven was surveyed in 1998 by Jo-Ann McLean (McLean 1998a, 1998b).

This archaeological survey was conducted in accordance with the guidelines outlined in the *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections* issued by the New York Archaeological Council and the New York State Office of Parks, Recreation, and Historic Preservation (1995). According to these guidelines:

> Phase IA investigations are intended to gather information concerning the environmental/physical setting of a specific project area as well as its cultural setting. It is the interrelationship of the physical environment and the cultural/historical setting that provides the basis for the sensitivity assessment.
>
> The information and the analyses performed should assist reviewers in understanding and evaluating the importance of environmental and cultural/historical resources within and surrounding the project area. Finally, it should also provide the rationale for developing the research design, the sensitivity assessment, and for selecting appropriate Phase IB field methodology as well as for evaluating project impacts.

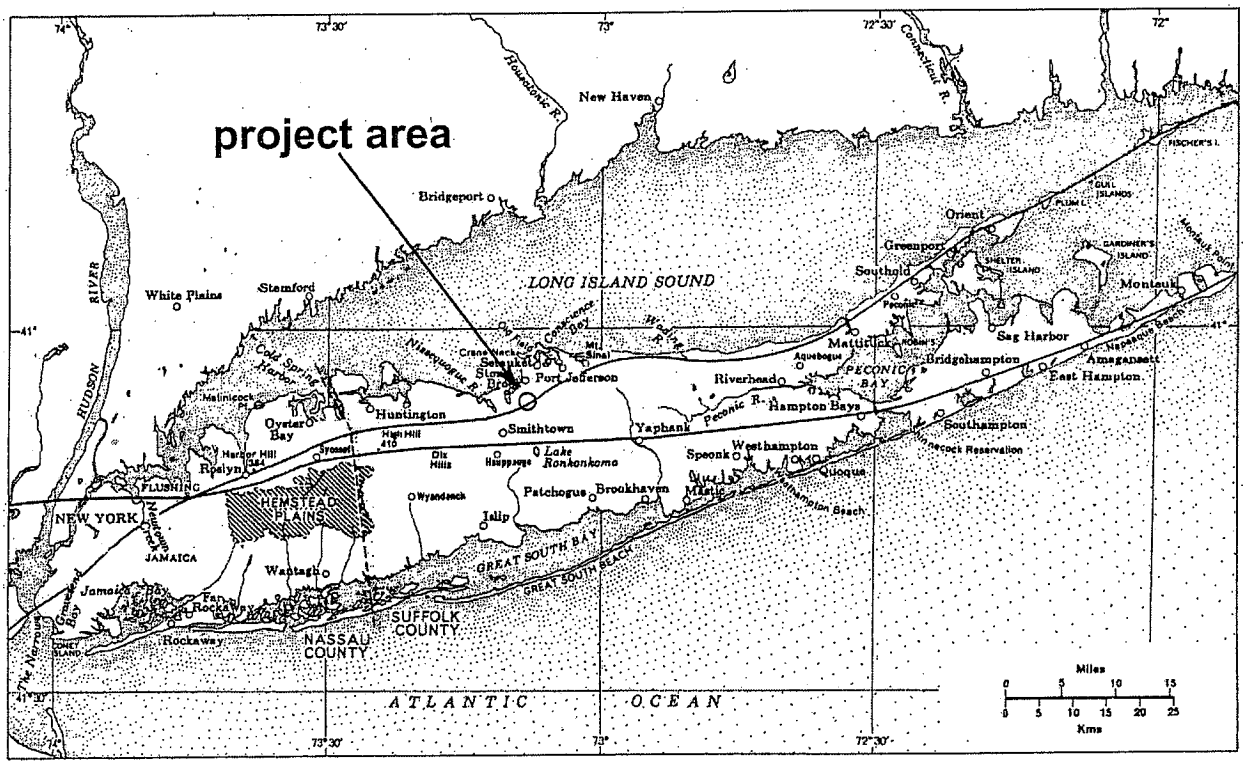

Figure 1. Map of Long Island showing location of the project area.

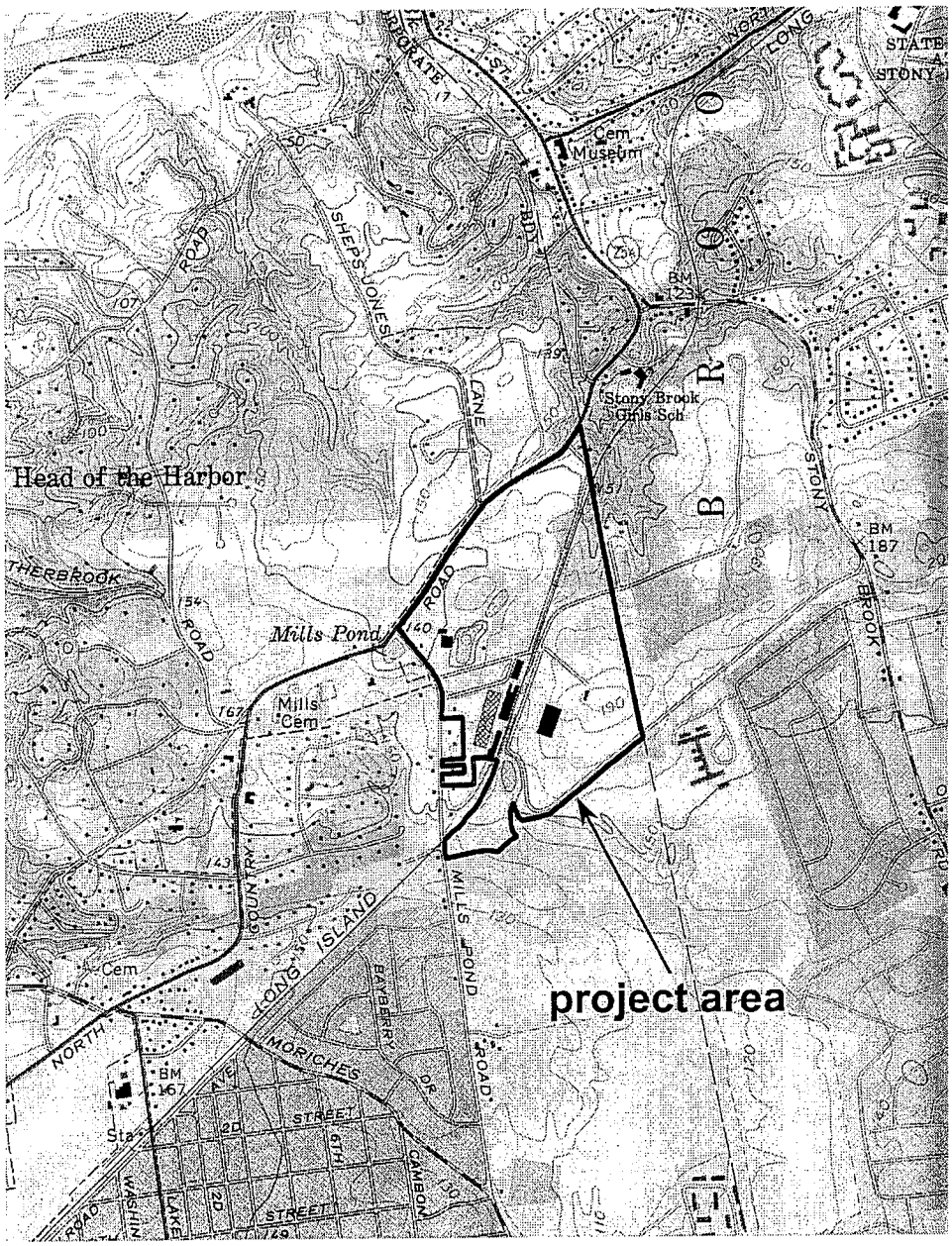

Figure 2. 1967/1979 USGS topographic map, *Saint James, New York* (7.5 minute series) showing the location of the project area in Smithtown (scale = 1:24,000).

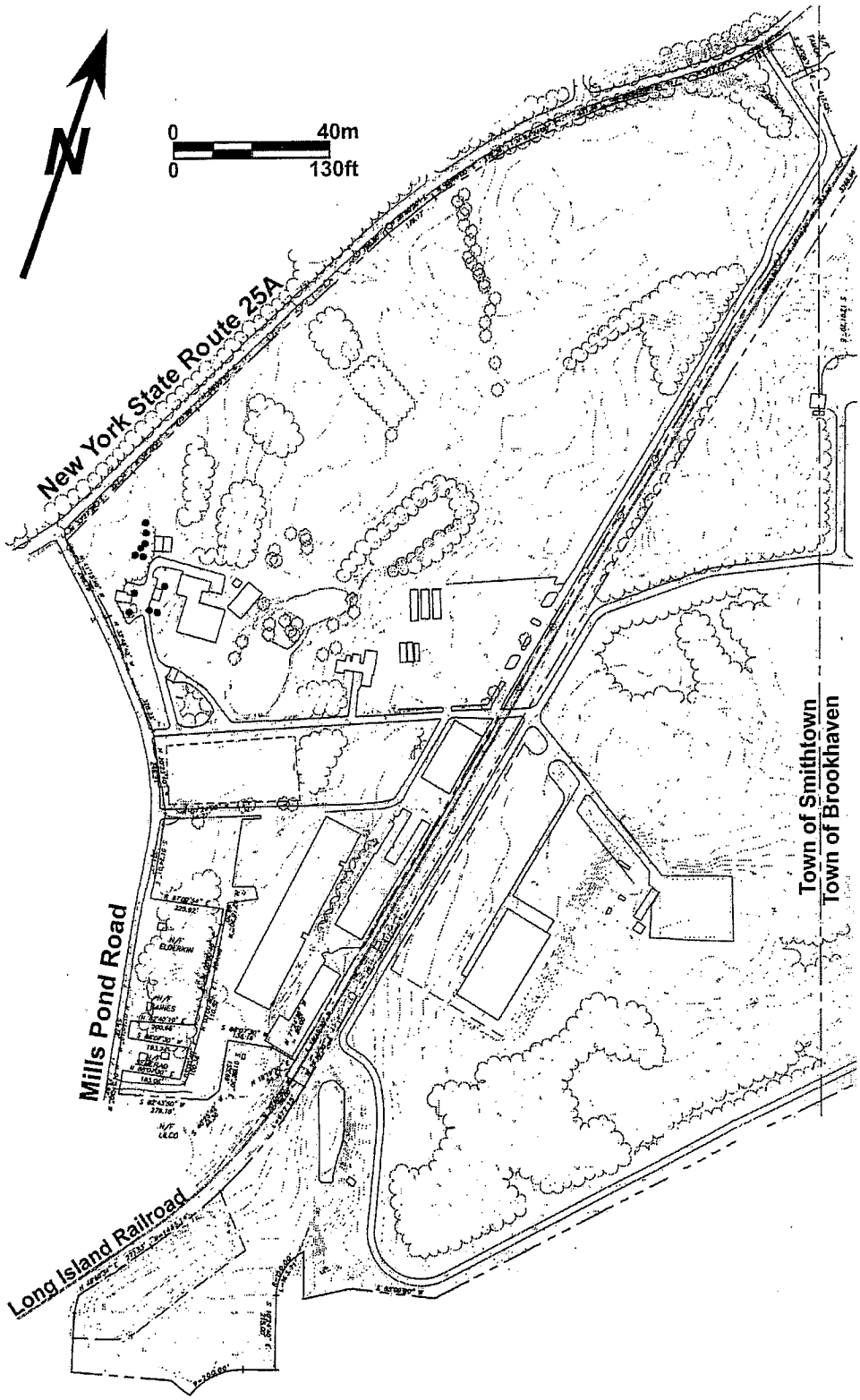

Figure 3. Map of the Gyrodyne property in Smithtown.

ENVIRONMENTAL AND PHYSICAL SETTING

Introduction and Method

An evaluation of the environmental and physical characteristics of an area is essential to understanding past land use, as well as the likelihood of encountering prehistoric or historic archaeological sites. Human groups locate their settlements in order to best take advantage of the characteristics of the natural and social landscape. Thus, knowledge of a region's environmental features, as well as its history, is important for reconstructing past behavior and assessing the probability of locating evidence of early activities.

A search of the available published records and unpublished site files (on Long Island and in Albany) of known archaeological and historic sites was undertaken to determine if any previous studies had documented archaeological remains in, or in the vicinity of, the project area. Pertinent historical records such as maps, photographs, and descriptive histories were examined to obtain information on past activities in the study parcel and surrounding region.

Environmental Setting

The Gyrodyne property in St. James is located near the north shore of Long Island, approximately two kilometers (1.2 miles) east and south of Stony Brook Harbor, a protected estuary on Long Island Sound (Figures 1 and 2). The nearest source of fresh water consists of three unnamed ponds within the project area. These ponds appear to have been modified, probably to supply farm fields during the historic period, but their locations coincide with natural depressions and thus they likely pre-date substantial human alteration of the landscape.

The project area is situated on the glacial outwash plain immediately south of the Harbor Hill end moraine, formed over 15,000 years ago during the retreat of the Wisconsinan ice sheet (Sirkin 1995). Topography is gently rolling through much of the Gyrodyne property, with elevations ranging from 38.4 meters (126 feet) above mean sea level in the southwest corner to 57.9 meters (190 feet) near the southeast corner. Most of the project area has an elevation between 48 and 52 meters (157 and 171 feet).

Soils in the project area are dominated by Riverhead sandy loam, 0 to 3 and 3 to 8 percent slopes, Haven loam, 2 to 6 percent slopes, and Riverhead and Haven soils, graded, 0 to 8 percent slopes. There are small patches of Scio silty loam, sandy substratum, 2 to 6 percent slopes, and Raynham loam in the northwest corner of the parcel, while the northeast corner has Carver and Plymouth sands, 15 to 35 percent slopes (Warner et al. 1975:Sheet 39). The Riverhead and Haven series are characterized by deep, well drained, medium- to coarse-textured soils with low natural fertility. The Scio and Raynham soils have a high water table, and are found in low-lying areas around ponds and creeks (Warner et al. 1975:5-7). A typical profile for Riverhead sandy loam consists of a topsoil layer (A0/A1 horizon) of dark brown sandy loam. The topsoil is underlain by the upper subsoil (B1), a light to medium brown sandy loam, and the lower subsoil (B2), an orange brown loamy sand. The substratum (B3) is a light yellow brown sand with pebbles and gravel (Warner et al. 1975:71-72, 81-83). No cultural material is expected in the B3 soil horizon. In areas where plowing has occurred, the topsoil and upper subsoil have been mixed, forming a homogeneous medium brown silty or sandy loam layer called the plow zone (Ap or pz).

The Gyrodyne property in Smithtown consists of open fields, wooded patches, and developed lots with buildings, parking lots, and roads (Figure 4). Tracks of the Long Island Railroad bisect the project area roughly north to south. Most of the former agricultural fields (now grass lawn) are defined by rows of mature trees (Figure 5), while wooded sections are dominated by oak trees. Some formerly cleared areas are now covered with dense volunteer growth of vines and small trees. Readily observable disturbances include graded and paved roads, the railroad tracks, several twentieth century buildings, extensive paved parking lots (Figure 6), and cutting/grading for a heliport (Figures 3 and 4). Disturbed areas have a very low potential for the presence of intact archaeological deposits.

In general, the environmental attributes of the north shore of Long Island indicate the presence of a diverse set of resources that could be exploited by aboriginal hunter-gatherers, as well as by the later Euro-American settlers. As is attested to by the numerous prehistoric archaeological sites that have been discovered throughout the St. James region, the natural characteristics of the area were attractive to Native peoples. Resources of the tidal creeks and

inlets, Long Island Sound, and the interior uplands were all nearby, and supported many hundreds of residents thousands of years before initial European settlement. The small ponds within the project area would have been attractive to Native peoples for drinking water. In addition, prey animals, most importantly deer, are prevalent in these sorts of settings. The project area would also have provided berries, nuts, tubers, and numerous species of small terrestrial fauna that were utilized by the Native Americans as part of their generalized subsistence base.

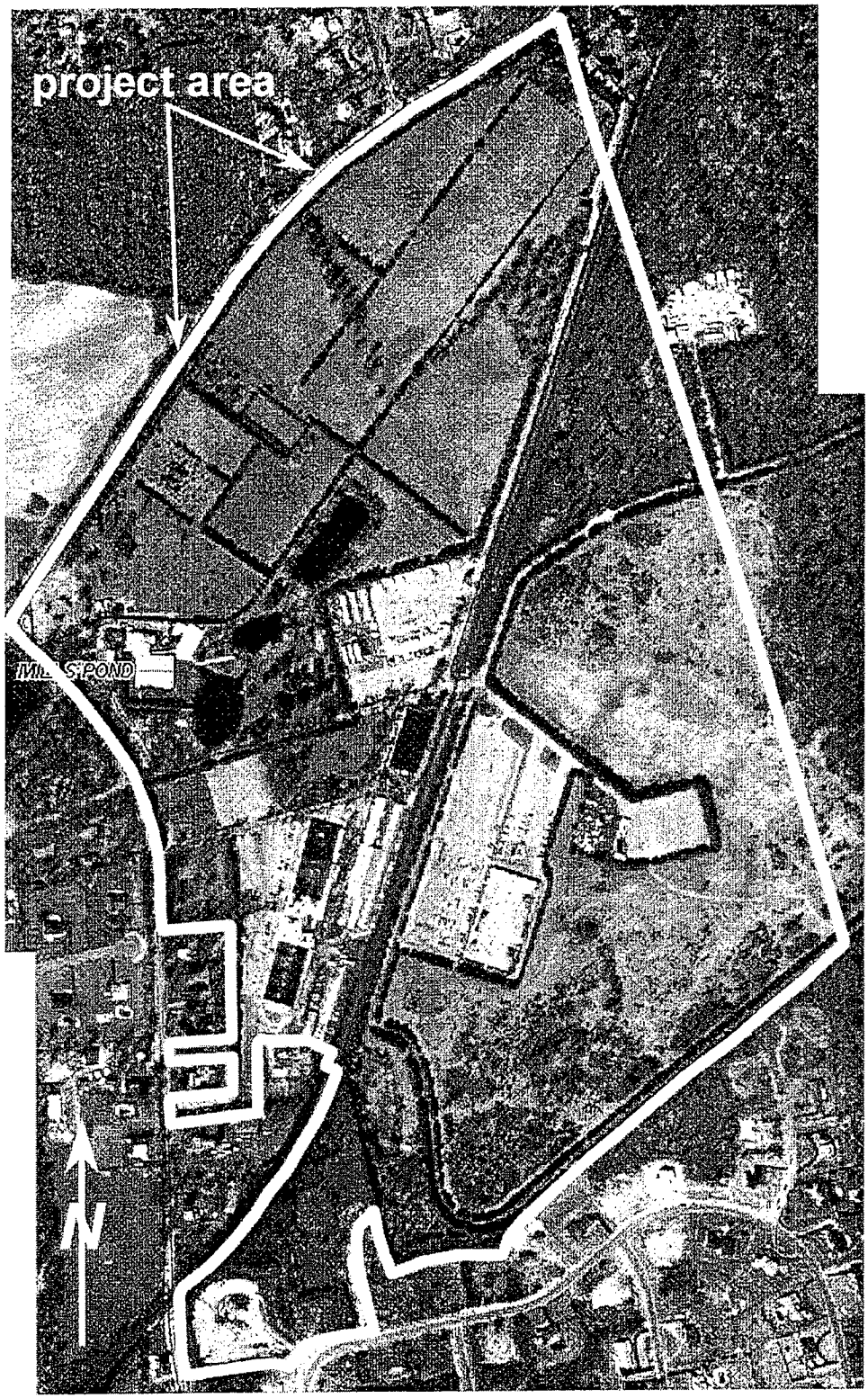

Figure 4. Aerial photograph showing the location of the project area.

Figure 5. Former agricultural field in the southern half of the Gyrodyne property in Smithtown. View is south.

Figure 6. Parking lot and mid-twentieth century industrial building near the center of the project area, looking northeast.

BACKGROUND RESEARCH

Prehistoric Period

There are three prehistoric sites listed in the files of the New York State Museum (NYSM), Office of Parks, Recreation, and Historic Preservation (OPRHP), Suffolk County Archaeological Association (SCAA, Gonzalez and Rutsch 1979), and the Institute for Long Island Archaeology (ILIA) within a 1.6 kilometer (one mile) radius of the Gyrodyne property in Smithtown (Table 1). A few prehistoric lithic artifacts were also found during subsurface testing of the adjacent Gyrodyne property in Brookhaven (McLean 1998a).

A prehistoric site was recently identified around Mills Pond during an archaeological survey performed in advance of possible road work (Barber 2002). A portion of this site, known as the Mills Pond site, is located in the northwest corner of the Gyrodyne property (southeast of the junction of Mills Pond Road and New York State Route 25A). The Mills Pond site consists of a thin scatter of quartz tools and flakes (waste products made during stone tool manufacture). Fifteen of 186 shovel test pits excavated for this survey conducted on Gyrodyne property yielded prehistoric quartz artifacts. The eligibility for the State and/or National Registers of the Mills Pond prehistoric site has not yet been determined.

Many of the prehistoric archaeological sites identified by the file search are associated with the wetlands of Stony Brook Harbor and its associated ponds and creeks, located north and west of the project area (Table 1, below). Reported archaeological sites date from the Late Archaic through Contact periods (circa 3000 B.C.-A.D. 1500), and include a variety of site types, ranging from large residential areas (camp sites with numerous features, including shell middens and burials) to isolated finds of stone tools (Table 1).

Based on the results of the site file search (a high number of known sites in the region), along with a consideration of nearby environmental features (particularly the proximity of a fresh water), the Gyrodyne property in Smithtown has a moderate to high sensitivity for the presence of prehistoric deposits. Sensitivity is highest in the northwest corner of the project area, near the known Mills Pond prehistoric site and fresh water ponds. Expected site types include small-scale manifestations of special purpose hunting or gathering activities.

Table 1. Archaeological sites within one mile (1.6 kilometers) of the project area.

Site Identifier	*Site Name(s)*	*Age*	*Comments*
NYSM 5561, SCAA 505	Stony Brook Pond	prehistoric	Shell midden located 550 meters northeast of Mills Pond.
NYSM 7177	ACP SUFK	prehistoric	Shell middens on Stony Brook Harbor.
	Gyrodyne Brookhaven	prehistoric	A few (less than ten) quartz artifacts were recovered from five shovel test pits in the parcel adjacent to the current project area.
	Mills Pond	prehistoric	A light density of quartz artifacts found in the northwest corner of the current project area.
	Bailey house	historic	Substantial deposit of nineteenth century material associated with map documented house found in northwest corner of current project area.
A10302.002051	Parks	prehistoric	Light density deposit of shell and quartz lithics.
A10302.002052	Williamson-Park Barn	historic	Site of 1794 barn moved to Stony Brook Museum; artifacts include nail and whiteware sherd.
A10302.002053	Parks Building	historic	Cut nails, and coal, ceramics at site of pre-1837 building(s).

Historic Period

There are two reported historic period archaeological sites within 1.6 kilometers (one mile) of the Gyrodyne property in Smithtown (Table 1). In addition, recent subsurface testing in the northwest corner of the project area encountered a nineteenth century Euro-American domestic site associated with the map documented B. Bailey house (Barber 2002). Cultural material from the Bailey house site includes domestic refuse (bottle glass, sherds from ceramic food preparation and serving vessels, clay smoking pipe fragments, shell, and coal) and building debris (brick, window glass, nails). The eligibility for the State and/or National Registers of this site has not yet been determined.

Permanent settlement by the English did not occur in north-central Long Island until the middle of the seventeenth century. At this time western Suffolk County was occupied by the Nissequogue sub-group of the Matinecock Indians, speakers of the Mohegan-Pequot-Montauk Algonquian language (Salwen 1978:173). *Nisinckqueghacky* was translated as "a place where the Matinecocks now reside" in Dutch records of 1645 (Tooker 1911:161).

The lands of present-day Town of Smithtown were ceded from the Native Americans in a series of deeds dating from the second half of the seventeenth century. The most famous of these land exchanges involves the legend of Richard "Bull" Smith. According to this legend, the local Native Americans agreed to confer upon Smith as much land as he could cover in a day, traveling on the back of a bull. Smith accepted the challenge, and his ride purportedly described the present-day boundaries of Smithtown. Regardless of the method by which he acquired it, Smith's patent was confirmed by the English governor of New York in 1665, and all six of his sons established homesteads around Nissequogue River (Hazelton 1925:804-806). By 1677 the area was known as Smithtown.

A lengthy dispute with Brookhaven over the eastern boundary of Smithtown arose because of the changes in the channel and stream associated with Stony Brook Harbor. In 1841 it was finally agreed that the middle of the main channel of the middle branch of the stream at Stony Brook should serve as the boundary line between the towns (Smith 1882:17). The Smithtown/Brookhaven boundary marks the east edge of the project area.

New York State Route 25A (North Country Road) is one of the three principal east-west routes running nearly the entire length of Long Island. This northernmost route, located along the north edge of the Gyrodyne property, was laid out in 1733, connecting early settlements along the coast (French 1860).

Coastal resources initially drew settlers to the region surrounding the Nissequogue River, while significant settlement of the interior reaches of the township of Smithtown occurred later. Early industries focused on the river, especially milling (water-powered grist and saw mills were established during the first years of the eighteenth century) and shipbuilding. By the early nineteenth century, Blydenburgh's landing on the Nissequogue River could accommodate scows of twenty to thirty tons. Principal exports from Smithtown were cordwood, merchandise, and fertilizer (Bailey 1949:307). In addition to the river-based industries of milling and shipbuilding, agriculture was practiced throughout the township.

By the time of the American Revolution, the Town of Smithtown had just over seven hundred inhabitants, many descended from Richard "Bull" Smith, and very few of whom were Loyalists (Bleyer 1998). The region supplied a patriot company which participated in the Battle

of Long Island and other skirmishes in Westchester and New Jersey (Hazelton 1925). During the American Revolution, local industry was disrupted as British troops occupied northwestern Suffolk County. Agricultural produce, salt hay, and wood were demanded by the British of the colonists on Long Island (Luke and Venables 1976), seriously depleting resources. Post-war growth in Smithtown was slow, but facilitated by waterborne commerce.

The Nissequogue River continued to supply power for milling even into the late nineteenth century, when a grist mill, a shingle mill, and a woolen factory supplemented other local industries (Bayles 1874). However, the coming of the railroad in 1872 brought about the end of commercial enterprise on the Nissequogue River (Bleyer 1998), as new businesses were situated to take advantage of comparatively inexpensive and rapid rail freight. The railroad stimulated industry and facilitated the development of summer resorts along the coast of Long Island. Although Smithtown was not radically altered by tourism at the turn of this century, larger estates and smaller summer homes appeared on the landscape. Farming gave way to more service-oriented businesses in the village center, although outlying sections of the township (including the project area) remained rural through the first half of the twentieth century.

The project area, now within St. James, was once part of the hamlet known as "Mills Pond" and later "Flowerfield." During the early nineteenth century the community consisted of a few houses clustered around a small pond (Smith 1882:19). The pond was used as a common watering hole for cattle. The hamlet included "some half a dozen dwellings only, located on the circular margins of a small collection of water, common to all the inhabitants, who are extensive and wealthy farmers" (Langhans 1959:10). The area was noted for its fruit growing as well as the mansion of Wickham W. Mills, located southwest of the junction of New York State Route 25A and Mills Pond Road, just west of the project area. W.W. Mills was a prominent citizen of the township. He was one of the largest landowners, and served as Town Supervisor for several years. He was a descendant of Timothy Mills, the first settler in the hamlet of Mills Pond and the original estate owner (Smith 1882:19).

Besides W.W. Mills, another locally important landowner was John Lewis Childs (1856-1921). Childs established a major plant nursery business in Floral Park, Nassau County in 1874, which grew to include the region's largest seed company in 1890. He was elected New York

State Senator in 1894, and ran unsuccessfully for Congress in the early 1900s. In 1909, Childs acquired 1,000 acres southeast of the junction of New York State Route 25A and Mills Pond Road, and established Flowerfield. Flowerfield served as an eastern extension of Childs' thriving nursery business, and was the site where he developed the finest collection of gladioli in the country (Weidman and Martin 1981:49). A railroad depot was opened in 1910 at Flowerfield for the purpose of transporting flowers to the New York market.

The Flowerfield property was purchased by James Mooney in 1921 and operated as Flowerfield Bulb Farm until the late 1930s. Three hundred and eighty acres of the property was subsequently purchased by Gyrodyne Company of America for the design and manufacture of helicopters. At its peak during the 1960s employment approached nearly one thousand workers. After the Vietnam War, a shift in weapons procurement led to a drastic decline in military business and the subdivision of many of the manufacturing facilities (McLean 1998b). Today the Flowerfield property includes a fairground, a catering hall, and office/light industrial facilities.

Trends in development and land-use patterns can be discerned through a study of mid-nineteenth through mid-twentieth century maps (Figures 7 through 12). A cluster of structures is depicted around Mills Pond near the northwest corner of the project area on the 1838 United States Coastal Survey (Figure 7), while most of the remainder of the property is shown as farm fields. The 1858 Chace *Map of Suffolk County* (Figure 8) shows a similar pattern of houses along Mills Ponds Road and New York State Route 25A (North Country Road), with most of the project area illustrated as cleared land (probably under active cultivation). All four residences shown on the 1858 *Map of Suffolk County* are map documented only (they are no longer standing), and consist of the W.C. Powell house on the east side of Mills Pond Road, the B.B. Bailey house at the southeast corner of Mills Pond Road and New York State Route 25A, the W.W. Mills house near the center of the north boundary of the Gyrodyne property in Smithtown, and the W.W. Mills house near the north corner of the project area. Remains associated with the Bailey house were encountered during a recent archaeological survey in the project area (Barber 2002).

By the time of the 1873 Beers *Atlas of Long Island* (Figure 9), the railroad had reached St. James and residential population had increased throughout the Town of Smithtown. The

W.W. Mills house in the north corner of the project area, as depicted on the 1858 map, is no longer shown, but the 1873 map illustrates four houses in the northwest corner of the project area (belonging to E. Lyon, B. Bailey, and two to W.W. Mills) and four houses are shown along Mills Pond Road north of the railroad tracks (some of which may be outside the project area limits). Only two houses are shown in the northwest corner on the 1904 USGS topographic map of *Setauket, New York* (15 minute series; Figure 10), while five houses are shown along Mills Pond Road north of the railroad tracks. An eighth structure within the project area depicted on the 1904 map just east of the oval pond is located in the vicinity of the modern catering hall on the Gyrodyne property in Smithtown.

The 1909 Hyde *Atlas of Suffolk County* (Figure 11) dates to the period of John Lewis Childs' Flowerfield. The northern portion of the project area belonged to DuBois Smith, and no structures are illustrated on Smith's land. The houses shown along Mills Pond Road here and on earlier maps (e.g., the 1904 USGS map) are located outside the current project area limits. No structures are shown on the Smith property on the 1917 Hyde *Atlas of a Part of Suffolk County* (Figure 12), while several buildings are depicted in Childs' Flowerfield, including a post office, a bulb house, and the railroad station. Most of these buildings, including the train station, were removed and replaced by mid-twentieth century industrial buildings and parking lots.

In summary, large sections of the Gyrodyne property in Smithtown were farmed from at least the early nineteenth century, if not earlier. Several nineteenth century structures lined Mills Pond Road and New York State Route 25A within and immediately adjacent to the project area, while early twentieth century buildings associated with Childs' Flowerfield had a wider distribution throughout the parcel. Based on information concerning initial settlement and the historic map overview, the overall potential for the presence of historic period archaeological sites within the Gyrodyne property in Smithtown is moderate, but high in the vicinity of the nineteenth century map documented structures (along Mills Pond Road and New York State Route 25A).

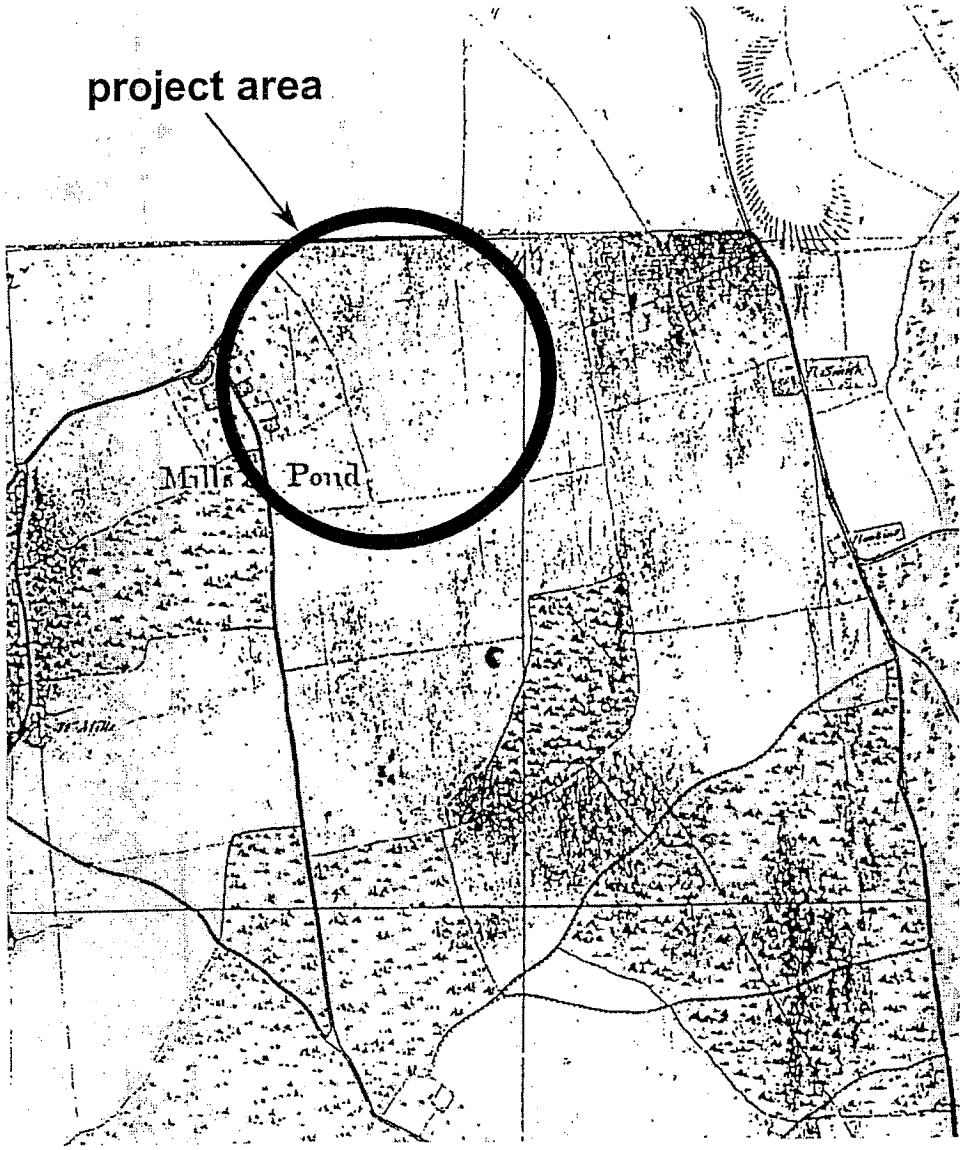

Figure 7. 1838 US Coastal Survey showing the location of the Gyrodyne property in Smithtown.

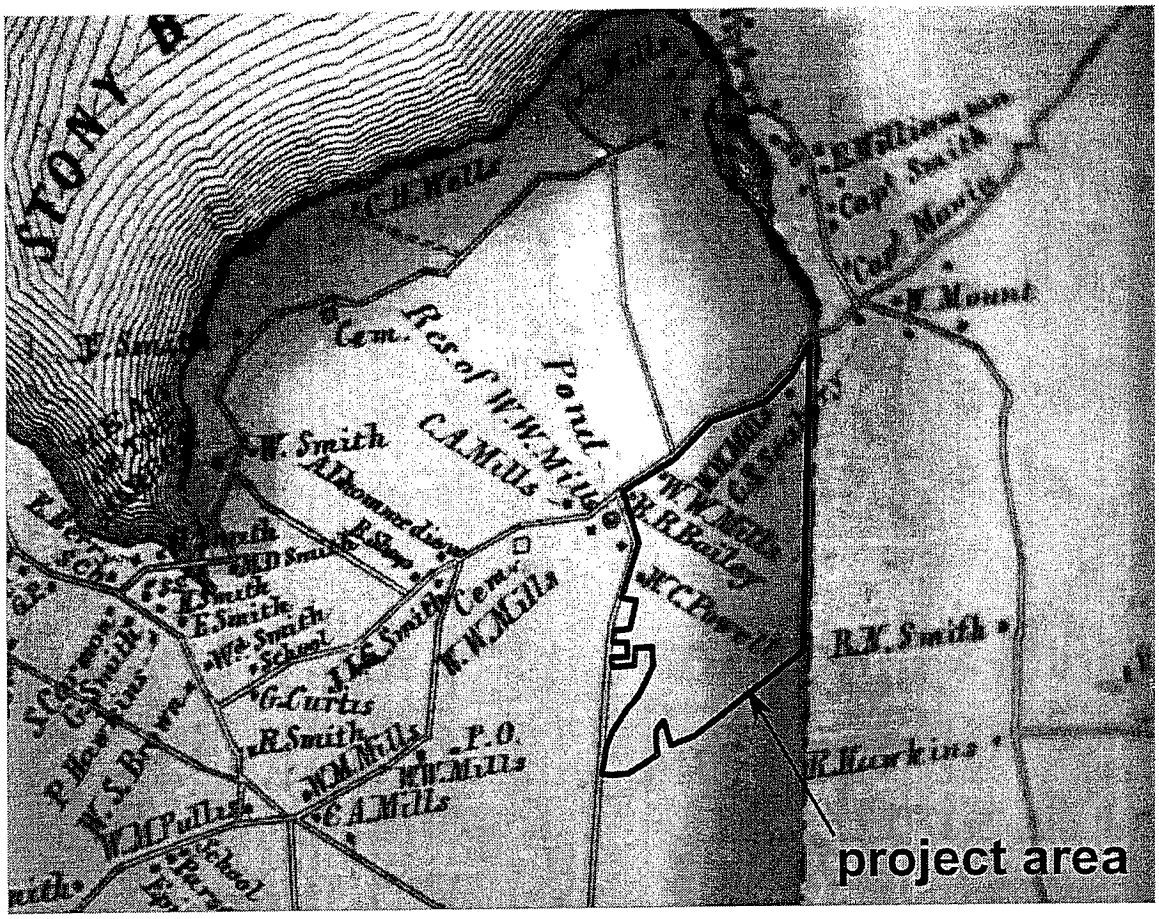

Figure 8. 1858 Chace *Map of Suffolk County*. Four map documented structures are located within the Gyrodyne property in Smithtown.

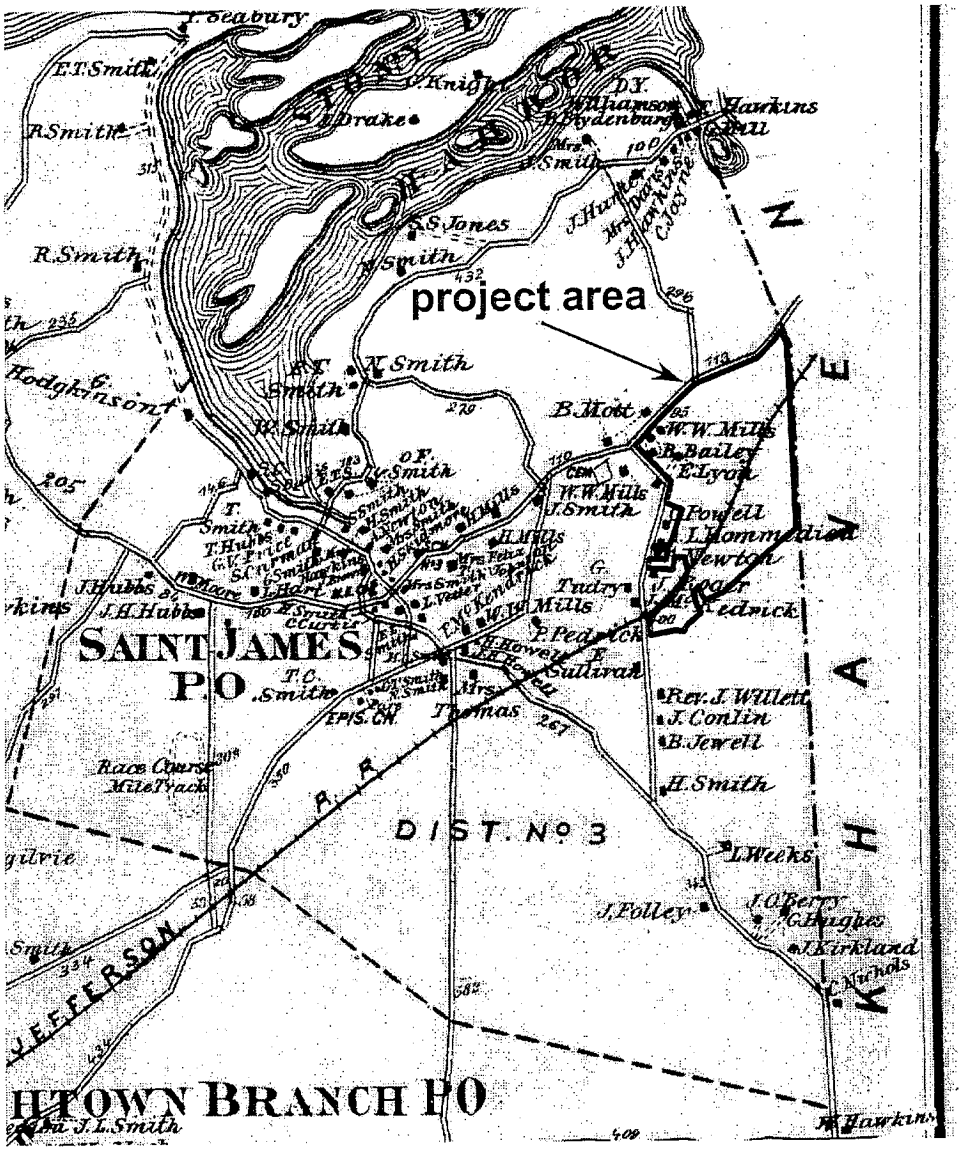

Figure 9. 1873 Beers *Atlas of Long Island* showing the location of the Gyrodyne property in Smithtown.

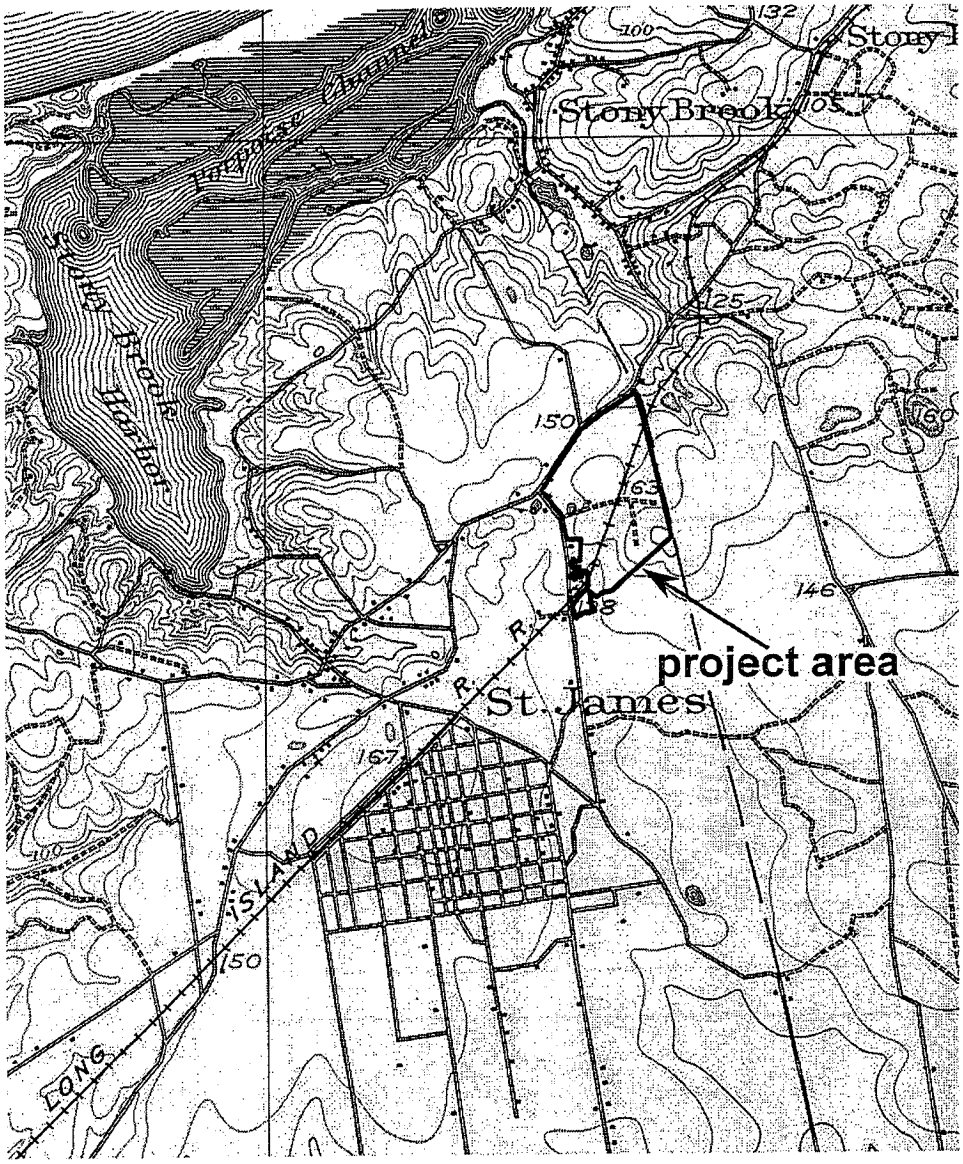

Figure 10. 1904 USGS topographic map of *Setauket, New York* (15 minute series) showing the location of the project area. This is among the earliest maps to illustrate the pond near the northwest corner of the property.

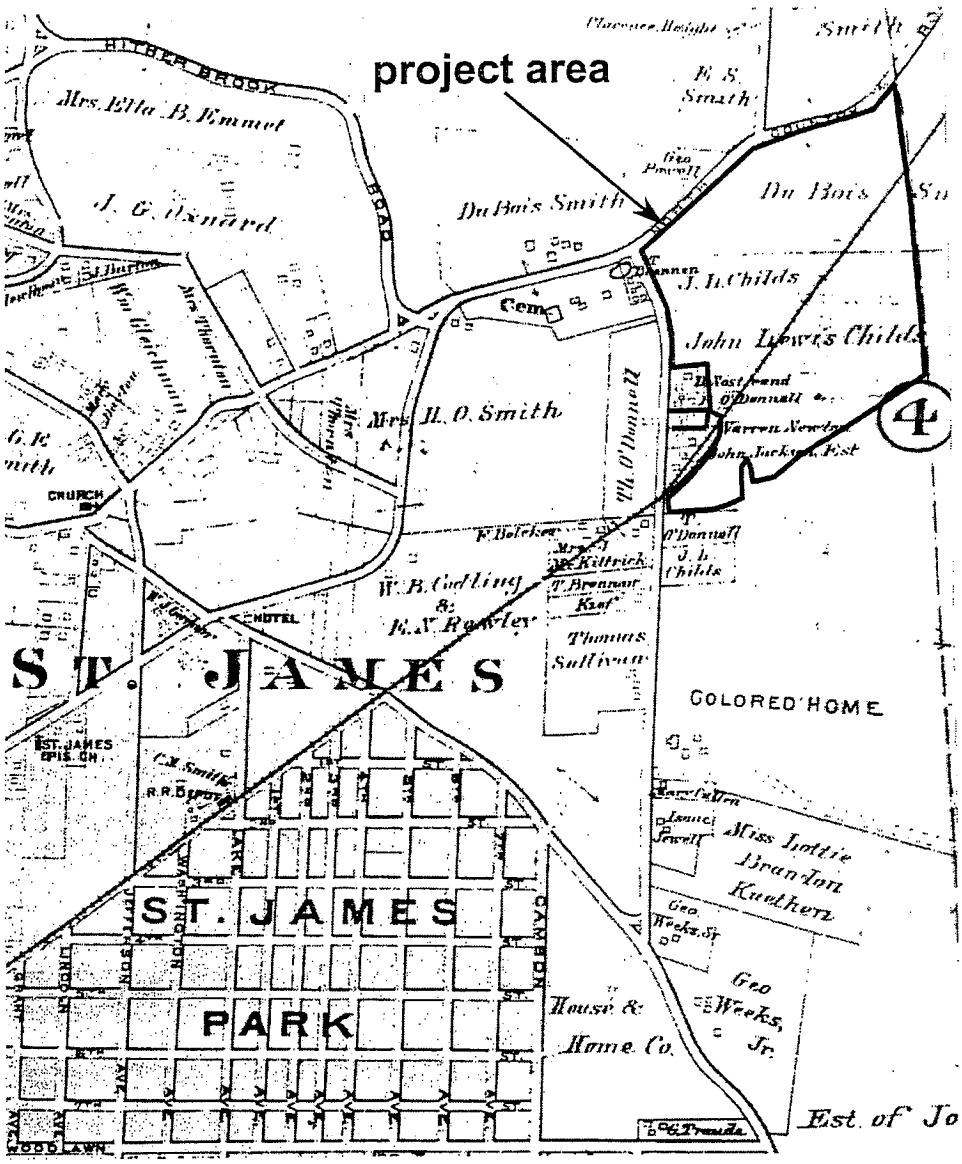

Figure 11. 1909 Hyde *Atlas of Suffolk County* showing the location of the project area.

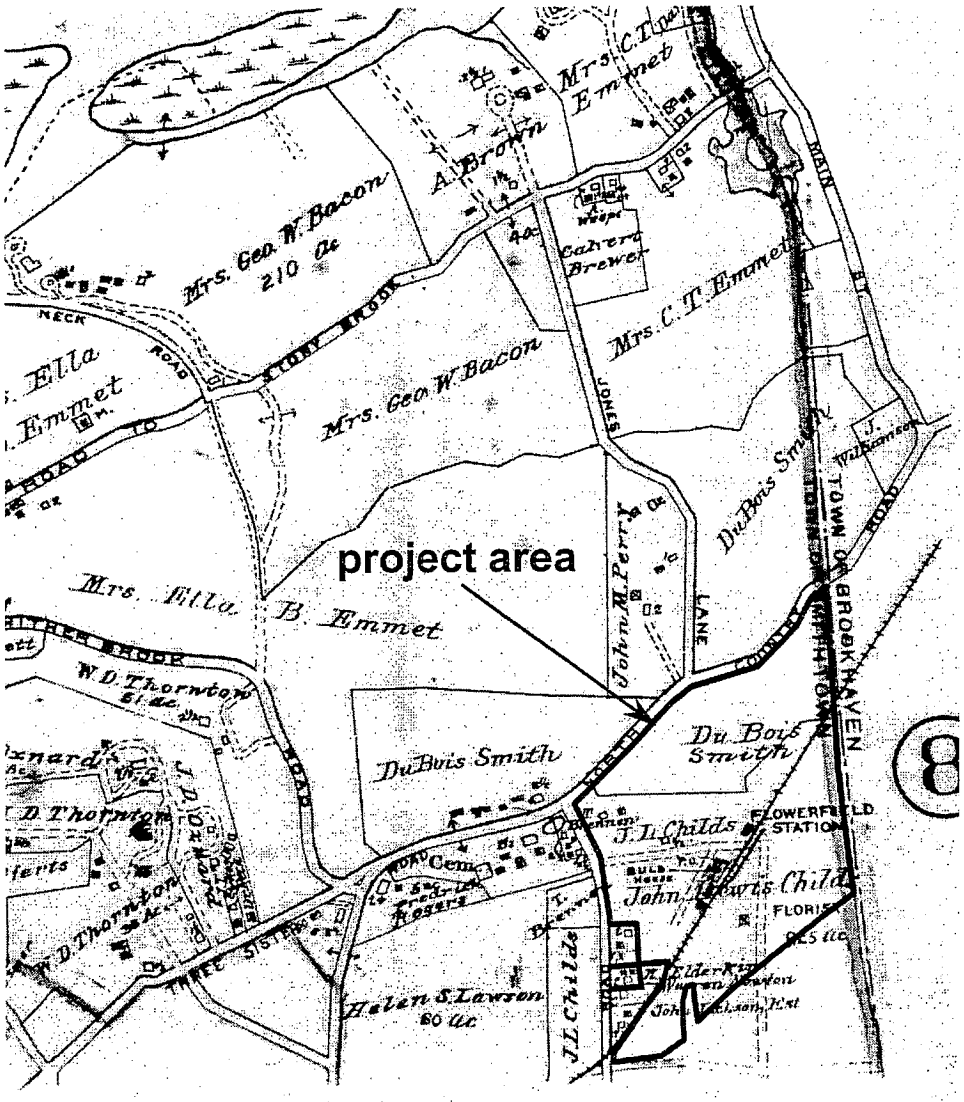

Figure 12. 1917 Hyde *Atlas of a Part of Suffolk County* showing the location of the Gyrodyne property in Smithtown. Most of the structures associated with Childs' Flowerfield are no longer extant.

FIELD INSPECTION

A field inspection of the Gyrodyne property in Smithtown was conducted in March 2002. A substantial portion of the project area was inspected, with special attention given to examining exposed soil for artifacts or other surface manifestations of past cultural activity. Vegetation patterns and topographic features which might provide insight into early land use were also noted, and obvious disturbances (e.g., graded areas) were identified.

Ground surface visibility is generally poor to fair (except for soil exposures such as dirt trails and uprooted trees) in wooded portions of the project area due to vegetation and leaf litter, while visibility is fair to good in former agricultural fields now maintained as grass lawns. No cultural material other than recent debris (i.e., less than ten years old) was encountered during the surface survey.

SENSITIVITY ASSESSMENT

Prehistoric Resources

The majority of the undisturbed portion of the Gyrodyne property in Smithtown has a moderate sensitivity for the presence of prehistoric archaeological remains. However, the northwest corner and the area surrounding three freshwater ponds in the west half of the project area (approximately 20 acres [8.1 hectares]) have a high sensitivity for prehistoric deposits. This assessment is based on the presence of a portion of a known prehistoric archaeological site within the project area (the Mills Pond site), as well as on favorable environmental features (notably, the ponds).

Historic Period Resources

The project area has an overall moderate sensitivity for the presence of historic period archaeological deposits in undisturbed areas. Most of the parcel was used for agricultural

purposes, beginning in the early nineteenth century, if not earlier, and continuing through the mid-twentieth century. Agricultural land use is expected to leave few remains in the archaeological record.

The sensitivity for historic period deposits is high near the known nineteenth century domestic archaeological site in the northwest corner of the Gyrodyne property in Smithtown, as well as near other nineteenth century map documented structures along Mills Pond Road and New York State Route 25A.

CONCLUSIONS AND RECOMMENDATIONS

The majority of undisturbed portions of the Gyrodyne Company of America property in Smithtown has a moderate potential for the presence of both prehistoric and historic period archaeological remains. However, the sensitivity for prehistoric remains is high in the northwest corner (where a prehistoric site was recently identified) and in the vicinity of three freshwater ponds in the west half of the project area (approximately 20 acres [8.1 hectares]). The sensitivity for historic period deposits is high near the known nineteenth century domestic archaeological site in the northwest corner, as well as near other map documented structures along Mills Pond Road and New York State Route 25A. The areas of high sensitivity (other than the northwest section of the property which has been tested in advance of possible road construction [Barber 2002]) have witnessed some disturbance from building and road construction, and other earth-moving activities.

A Stage 1B subsurface archaeological survey is recommended for all undisturbed sections of the Gyrodyne property in Smithtown. Approximately 35 of the 145 acres of the project area have been thoroughly disturbed by twentieth century building construction, cutting/filling/ grading for extensive paved parking lots and roads, heliport and recharge basin construction, and other earth-moving activities, and will not require subsurface testing. The remaining 110 acres (44.5 hectares) should be subject to subsurface testing using a standard 15 by 15 meter (49 by 49 foot) grid, while undisturbed portions of high sensitivity areas (should they exist) may require placing test pits at closer intervals. A 15 meter grid is consistent with the recommendation the New York State Office of Parks, Recreation, and Historic Preservation made for the archaeological survey of the portion of the Gyrodyne property in the Town of Brookhaven (Pierpont 1998). It is estimated that between 1500 and 1800 shovel test pits would be required for the Stage 1B archaeological survey of the Gyrodyne property in Smithtown.

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A STAGE 1B ARCHAEOLOGICAL SURVEY

FOR THE

GYRODYNE COMPANY OF AMERICA

PROPERTY IN SMITHTOWN

ST. JAMES, TOWN OF SMITHTOWN

SUFFOLK COUNTY, NEW YORK

Prepared by:

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September 2002

ABSTRACT

This report presents the results of a Stage 1B archaeological survey performed on the Gyrodyne Company of America property in St. James, Town of Smithtown, Suffolk County, New York. The study was conducted by the Institute for Long Island Archaeology at the State University of New York at Stony Brook. The project area consists of approximately 145 acres (58.7 hectares) which are scheduled to be impacted by construction. A Stage 1A archaeological assessment was performed for the Smithtown portion of the Gyrodyne property in April 2002 by the Institute for Long Island Archaeology, while the Brookhaven portion of the property was surveyed in 1998 by Jo-Ann McLean.

Background research indicated that most of the project area has a moderate sensitivity for the presence of both prehistoric and historic period archaeological deposits. However, certain specific areas have a higher sensitivity for the presence of archaeological remains. These include the northwest corner (approximately 20 acres [8.1 hectares]) of the project area where both a prehistoric site (the Mills Pond site) and a historic period site (the nineteenth century B. Bailey domestic site) were encountered during a recent survey conducted in advance of possible road improvements at the junction of Mills Pond Road and New York State Route 25A.

A Stage 1B subsurface archaeological survey was conducted in July and August 2002. Undisturbed portions of the Gyrodyne property in Smithtown were tested with shovel test pits placed on a 15 by 15 meter (49 by 49 foot) grid. A total of 1245 shovel test pits was excavated. Combined, the 2001 and 2002 archaeological surveys resulted in the excavation of 1431 shovel test pits in the project area.

A very light density of prehistoric cultural material was encountered during the 2002 survey. A total of 32 lithic artifacts (one projectile point, two biface fragments, one modified flake, two core fragments, and 26 pieces of quartz debitage) was found in 28 shovel test pits. This material is likely associated with a denser concentration of lithic artifacts at the Mills Pond site, which extends into the northwest corner of the Gyrodyne property. A Stage 2 site evaluation is recommended only for this corner, where lithic artifact concentrations are more than three times greater than in the remainder of the project area.

A Stage 2 site evaluation is also recommended for the nineteenth century B. Bailey house site, again, located in the northwest corner of the Gyrodyne property. As was the case with the prehistoric cultural material, no further archaeological work is recommended to investigate the Euro-American use of the project area beyond the limits of the B. Bailey site.

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LIST OF FIGURES AND TABLES

INTRODUCTION

This report presents the results of a Stage 1B archaeological survey performed on the Gyrodyne Company of America property in the hamlet of St. James, Town of Smithtown, Suffolk County, New York (Figures 1 and 2). The study was conducted by the Institute for Long Island Archaeology, State University of New York at Stony Brook in July and August 2002. The project area is located south of New York State Route 25A (North Country Road), east of Mills Pond Road, and west of the Smithtown/Brookhaven town boundary (Figures 2 and 3). The parcel consists of approximately 145 acres (58.7 hectares), which may be impacted by new construction. A Stage 1A archaeological assessment was conducted by the Institute for Long Island Archaeology earlier this year (Bernstein and Merwin 2002), while the portion of the Gyrodyne property in the Town of Brookhaven was surveyed in 1998 by Jo-Ann McLean (McLean 1998a, 1998b).

This archaeological survey was conducted in accordance with the guidelines outlined in the *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections* issued by the New York Archaeological Council and the New York State Office of Parks, Recreation, and Historic Preservation (1995).

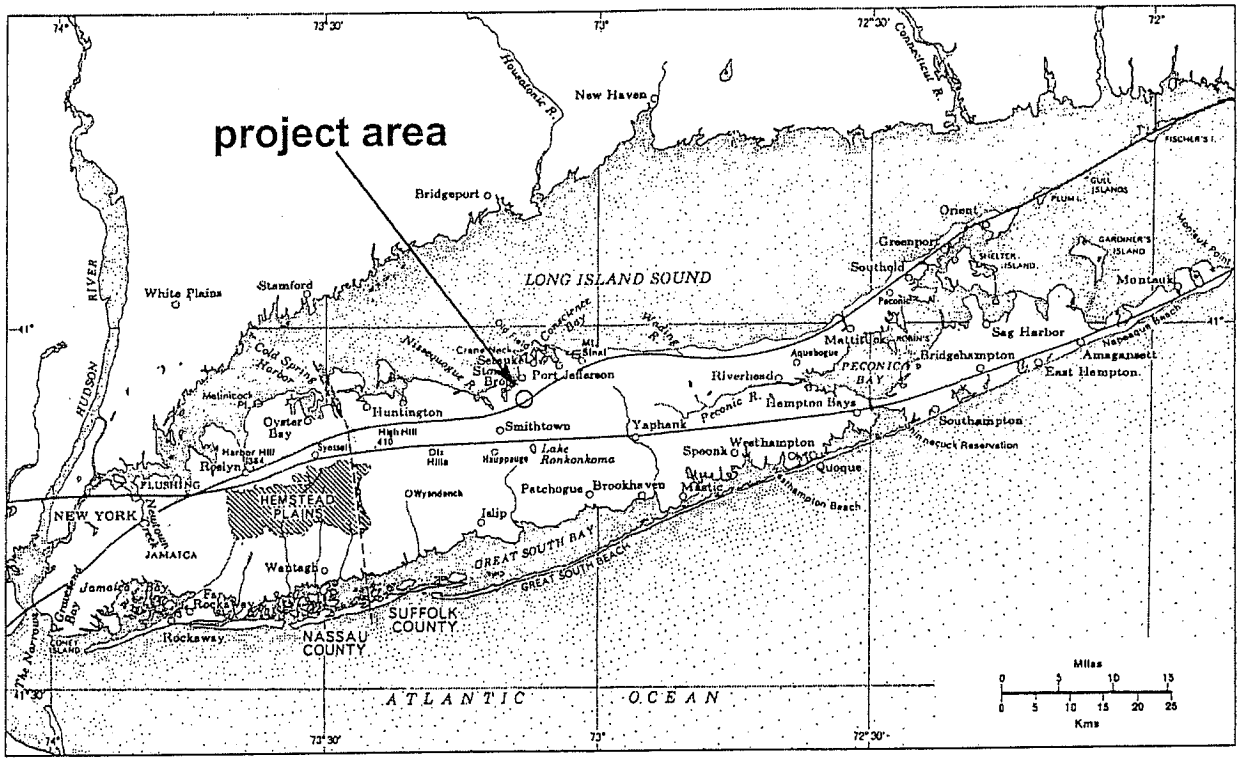


Figure 1. Map of Long Island showing location of the project area.

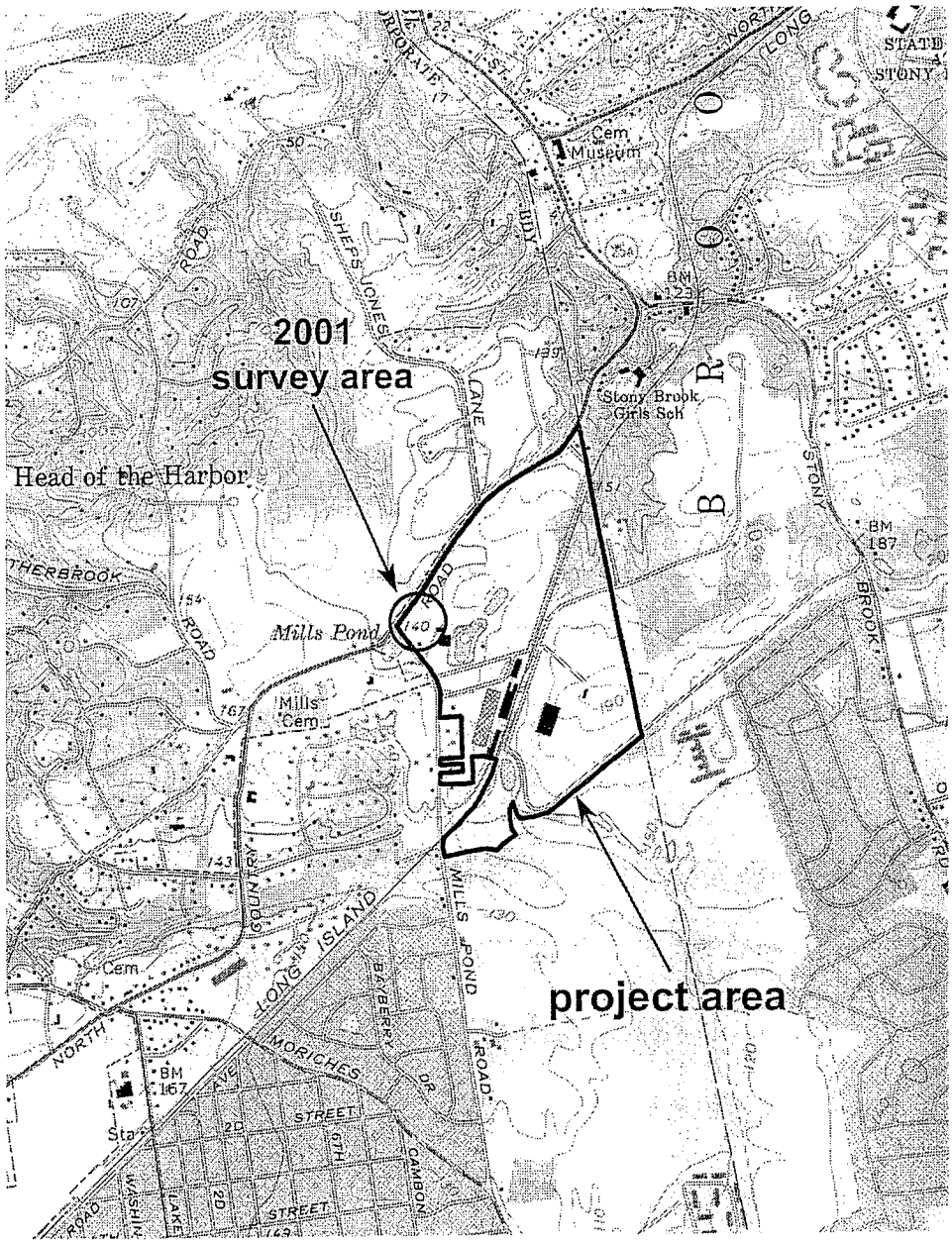
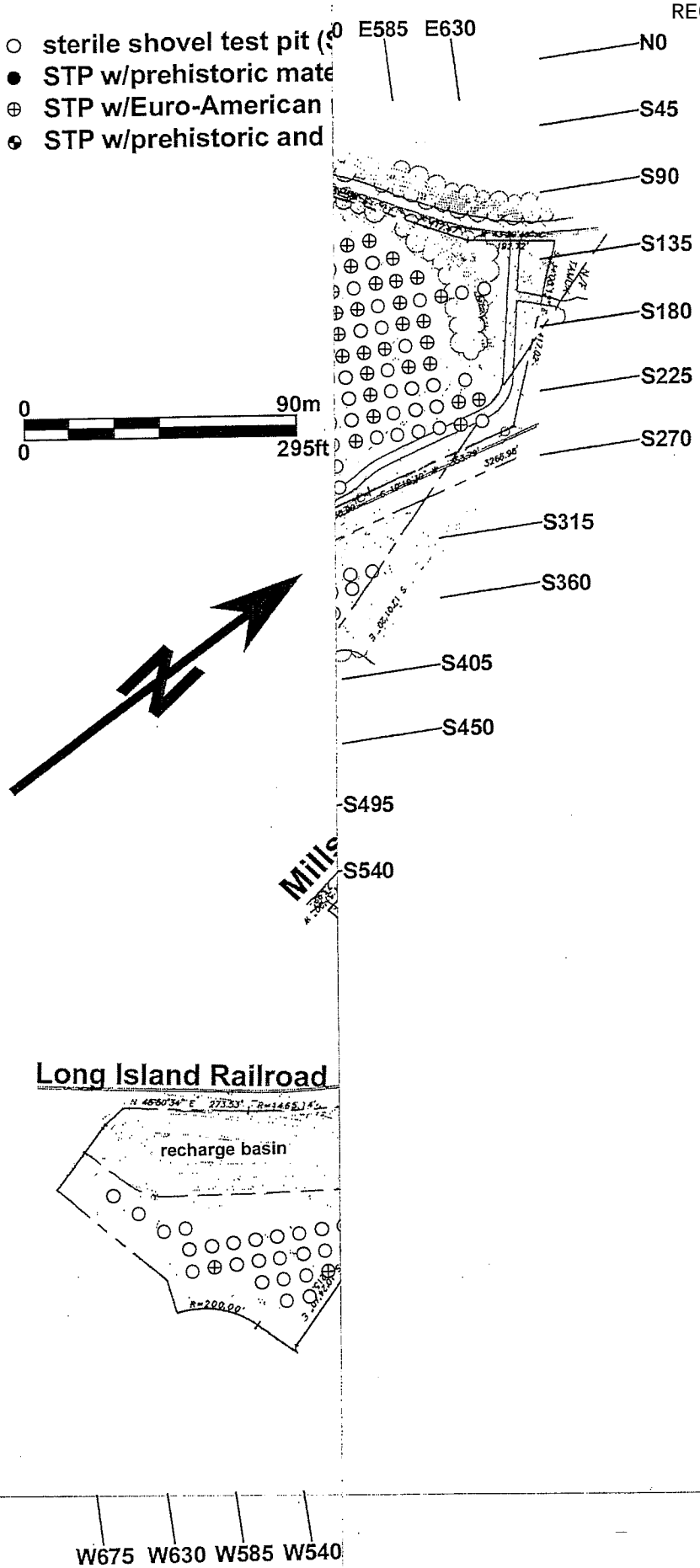


Figure 2. 1967/1979 USGS topographic map, *Saint James, New York* (7.5 minute series) showing the location of the project area in Smithtown (scale = 1:24,000).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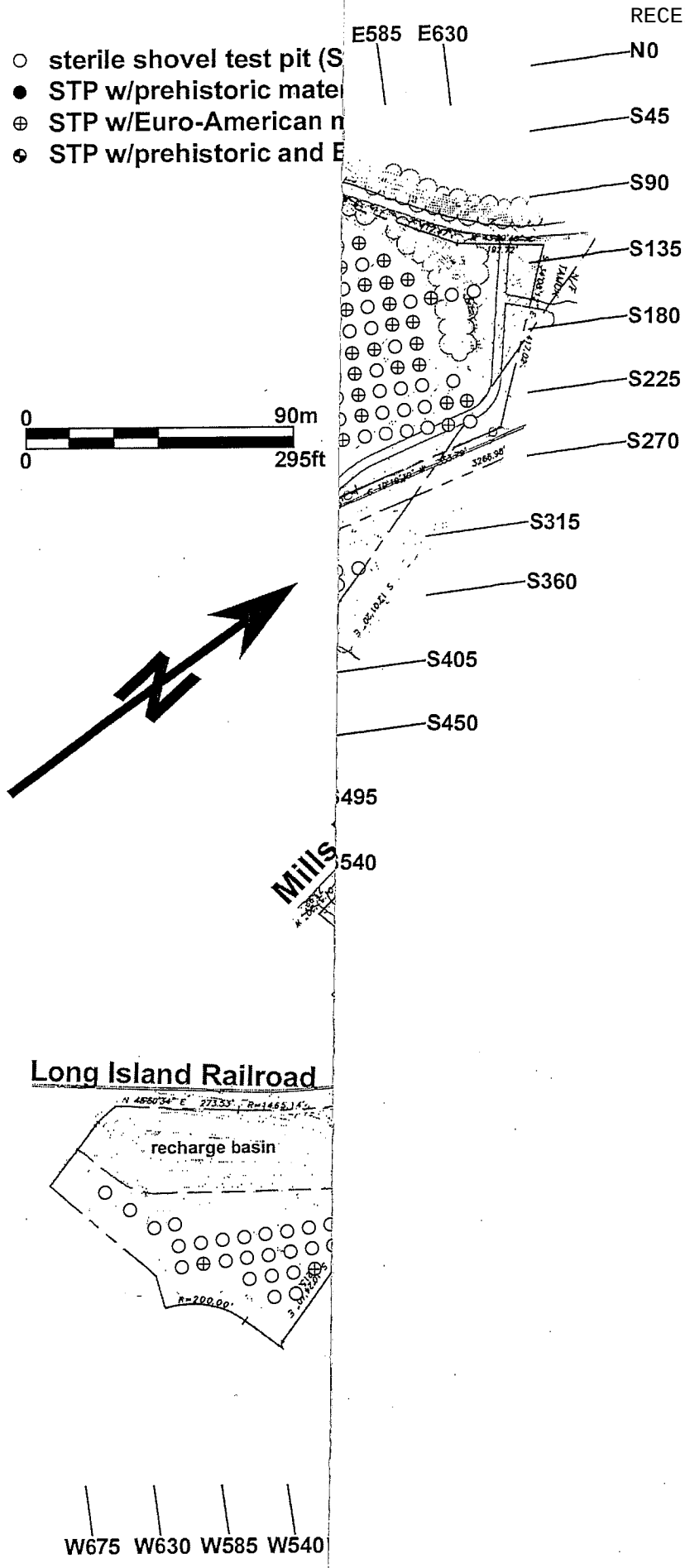
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PROJECT AREA SETTING

The Gyrodyne property in St. James is located near the north shore of Long Island, approximately two kilometers (1.2 miles) southeast of Stony Brook Harbor, a protected estuary on Long Island Sound (Figures 1 and 2). The nearest source of fresh water consists of three unnamed ponds within the project area. These ponds appear to have been modified, probably to supply farm fields during the historic period, but their locations coincide with natural depressions and thus they likely pre-date substantial human alteration of the landscape.

The project area is situated on the glacial outwash plain immediately south of the Harbor Hill end moraine, formed over 15,000 years ago during the retreat of the Wisconsinan ice sheet (Sirkin 1995). Topography is gently rolling through much of the Gyrodyne property, with elevations ranging from 38.4 meters (126 feet) above mean sea level in the southwest corner to 57.9 meters (190 feet) near the southeast corner. Most of the project area has an elevation between 48 and 52 meters (157 and 171 feet).

Soils in the project area are dominated by Riverhead sandy loam, 0 to 3 and 3 to 8 percent slopes, Haven loam, 2 to 6 percent slopes, and Riverhead and Haven soils, graded, 0 to 8 percent slopes. There are small patches of Scio silty loam, sandy substratum, 2 to 6 percent slopes, and Raynham loam in the northwest corner of the parcel, while the northeast corner has Carver and Plymouth sands, 15 to 35 percent slopes (Warner et al. 1975:Sheet 39). The Riverhead and Haven series are characterized by deep, well drained, medium- to coarse-textured soils with low natural fertility. The Scio and Raynham soils have a high water table, and are found in low-lying areas around ponds and creeks (Warner et al. 1975:5-7). A typical profile for Riverhead sandy loam consists of a topsoil layer (A0/A1 horizon) of dark brown sandy loam. The topsoil is underlain by the upper subsoil (B1), a light to medium brown sandy loam, and the lower subsoil (B2), an orange brown loamy sand. The substratum (B3) is a light yellow brown sand with pebbles and gravel (Warner et al. 1975:71-72, 81-83). No cultural material is expected in the B3 soil horizon. In areas where plowing has occurred, the topsoil and upper subsoil have been mixed, forming a homogeneous medium brown silty or sandy loam layer called the plow zone (Ap or pz).

The Gyrodyne property in Smithtown consists of open fields, wooded patches, and developed lots with buildings, parking lots, and roads (Figures 3 and 4). Tracks of the Long Island Railroad cross the project area running north-south. Most of the former agricultural fields (now grass lawn) are defined by rows of mature trees (Figure 5), while wooded sections are dominated by oak trees. Some formerly cleared areas are now covered with dense volunteer growth of vines and small trees (Figures 6 and 7). Readily observable disturbances include graded and paved roads, the railroad tracks, several twentieth century buildings, extensive paved parking lots, and cutting/grading for a heliport (Figures 3 and 4). Disturbed areas have a very low potential for the presence of intact archaeological deposits.

In general, the environmental attributes of the north shore of Long Island indicate the presence of a diverse set of resources that could be exploited by aboriginal hunter-gatherers, as well as by the later Euro-American settlers. As is attested to by the numerous prehistoric archaeological sites that have been discovered throughout the St. James region, the natural characteristics of the area were attractive to Native peoples. Resources of the tidal creeks and inlets, Long Island Sound, and the interior uplands were all nearby, and supported many hundreds of residents thousands of years before initial European settlement. The small ponds within the project area would have been attractive to Native peoples for drinking water. In addition, prey animals, most importantly deer, are prevalent in these sorts of settings. The project area would also have provided berries, nuts, tubers, and numerous species of small terrestrial fauna that were utilized by the Native Americans as part of their generalized subsistence base.

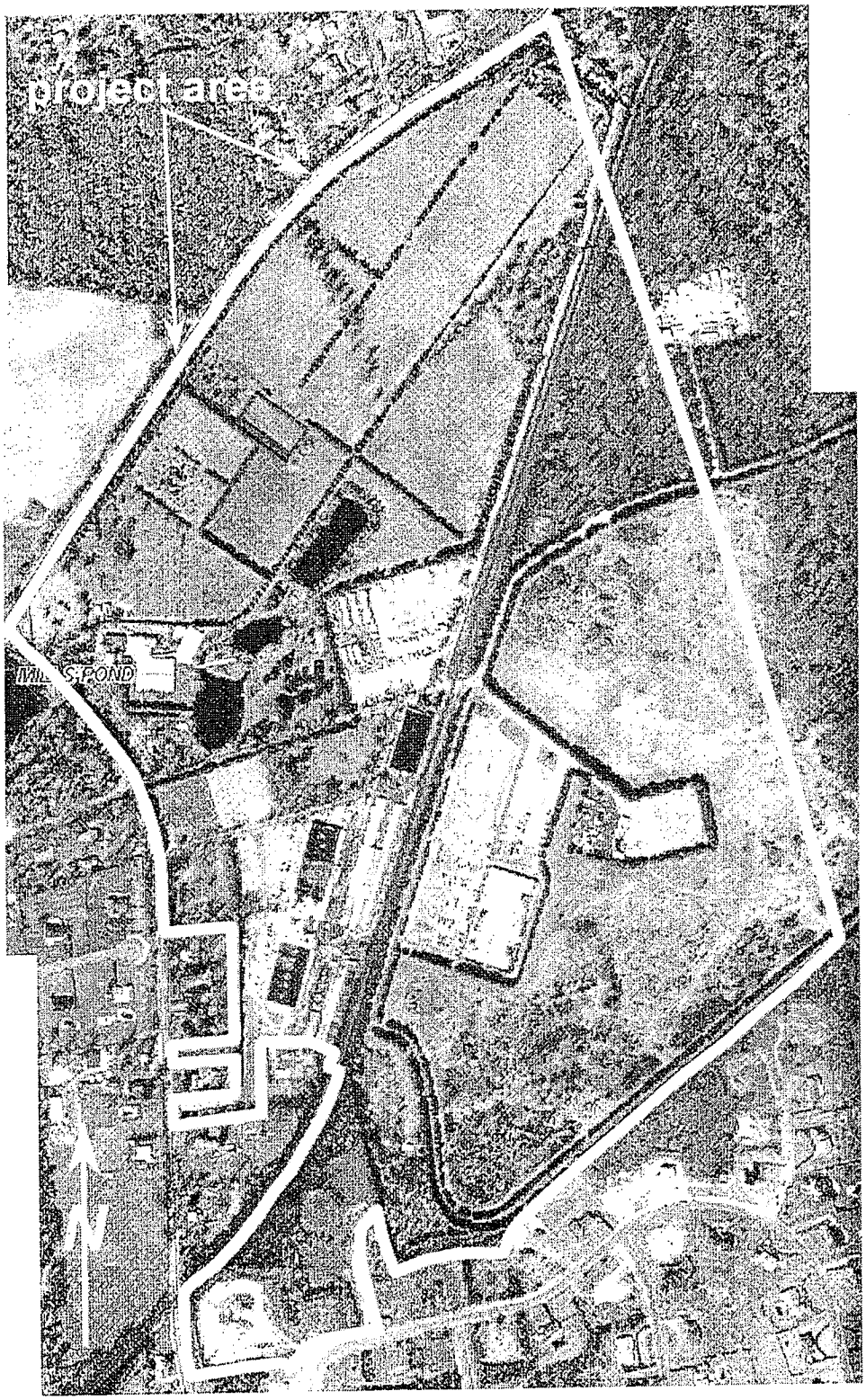

Figure 4. Aerial photograph showing the location of the project area.

Figure 5. A former agricultural field, now periodically used as a parking area for fairs and other events on the Gyrodyne Smithtown property. View is north.

Figure 6. Clearing transects by backhoe in a former agricultural field, now overgrown with dense volunteer vegetation, looking east.

Figure 7. Excavation of shovel test pit S615/W195 in progress. View is west.

ARCHAEOLOGICAL RESEARCH

Previous Research

A prehistoric site was recently identified around Mills Pond during an archaeological survey performed in advance of possible road work proposed by the New York State Department of Transportation (Barber 2002). A portion of this site, known as the Mills Pond site (New York State Museum Site #11237), is located in the northwest corner of the Gyrodyne property (southeast of the junction of Mills Pond Road and New York State Route 25A). The Mills Pond site consists of a thin scatter of quartz tools and flakes (waste products made during stone tool manufacture). Fifteen of 186 shovel test pits excavated for this survey conducted on Gyrodyne property yielded prehistoric quartz artifacts. The eligibility for the State and/or National Registers of the Mills Pond prehistoric site has not yet been determined. A few prehistoric lithic artifacts were also found during subsurface testing of the adjacent Gyrodyne property in Brookhaven (McLean 1998a).

In addition, recent subsurface testing in the northwest corner of the project area encountered a nineteenth century Euro-American domestic site associated with the map documented B. Bailey house (Barber 2002). Cultural material from the Bailey house site (new York State Museum Site #11236) includes domestic refuse (bottle glass, sherds from ceramic food preparation and serving vessels, clay smoking pipe fragments, shell, and coal) and building debris (brick, window glass, nails). The eligibility for the State and/or National Registers of this site has not yet been determined.

Field Inspection and Surface Survey

A preliminary field inspection of the Gyrodyne property in Smithtown was conducted in March 2002, and another walkover took place in July. The entire project area was inspected, with special attention given to examining exposed soil for artifacts or other surface manifestations of past cultural activity. Vegetation patterns and topographic features which might provide insight into early land use were also noted, and obvious disturbances (e.g., graded areas) were identified.

Ground surface visibility is generally poor to fair (except for soil exposures such as dirt trails and uprooted trees) in wooded portions of the project area due to vegetation and leaf litter, while visibility is fair to good in former agricultural fields now maintained as grass lawns. No cultural material other than recent debris (i.e., less than ten years old) was encountered during the surface survey.

Subsurface Testing

Subsurface testing was undertaken in all undisturbed portions of the Gyrodyne property in Smithtown. Disturbed sections that were not tested include areas covered by roads, parking lots, and buildings, a railroad embankment, a recharge basin, and other areas that have witnessed obvious and extensive earth-moving activities (Figures 3 and 4).

The project area was tested with shovel test pits (STPs) placed on a 15 by 15 meter (49 by 49 foot) grid. Several test pits that yielded prehistoric cultural material were supplemented with additional units to verify the extent of the prehistoric material. These units were generally placed one meter in the four cardinal directions from the original find. Shovel test pits are identified by metric coordinates relative to a mapping datum established at a utility pole near the northwest corner of the Gyrodyne property. This is the same datum that was used for an archaeological survey done in the autumn of 2001 (Barber 2002). A total of 1245 test pits was excavated during the 2002 survey, bringing the total (2001 and 2002 investigations) to 1431. Shovel test pits have a diameter of approximately 40 centimeters (16 inches). All shovel test pits were dug well into the B2 subsoil, typically to 50 to 60 centimeters (20 to 24 inches) below the present ground surface. The soil from each test unit was screened through a six millimeter (1/4 inch) wire mesh to aid in the identification and recovery of cultural materials. All recovered materials were brought to the laboratory at the State University of New York at Stony Brook for cleaning, analysis, and curation.

In the laboratory, all recovered artifacts were cleaned, cataloged, and recorded in a computerized file. Lithic artifacts are classified using a standard system developed specifically for Long Island materials (Bernstein et al. 1990). Bifaces are tools which exhibit substantial modification, with flakes removed from both the ventral and dorsal surfaces. Debitage (chipping

waste) pieces are placed in one of three categories based on the amount of cortex (natural surface, or rind, found on the exterior of a stone) remaining on the dorsal face of a flake. Primary flakes are those with more than 50% of the dorsal face containing cortex. Secondary flakes exhibit cortex over less than 50% of the dorsal face, while tertiary flakes have no cortex remaining. Small tertiary flakes have no dimension greater than one centimeter (0.4 inch). Blocks and shatter are angular fragments, always of quartz, which do not show flake scars, but are still considered products of human manufacturing activities. Cores are the original pieces of stone from which flakes are removed to make tools.

Shellfish remains are sorted by species, and quantified by the minimum number of individuals rather than fragment count. They are of uncertain age, though most likely date to the Euro-American use of the property. Historic period artifacts were identified and classified using a number of standard manuals (e.g., Noël Hume 1970).

RESULTS

An inventory of all recovered cultural material appears in the appendices to this report, along with stratigraphic information for each shovel test pit. Appendix A is an inventory of shovel test pits excavated in the northwest corner of the Gyrodyne property during the autumn of 2001 for the New York State Department of Transportation (Barber 2002). Appendix B documents the work done in the summer of 2002 throughout the remainder of the Gyrodyne property in Smithtown. Archaeological site forms are provided in Appendix C.

The general characteristics of the soils in the project area are described in the Project Area Setting section of this report (see above). The topsoil layer (referred to in Appendix A as the A0/A1 horizon) consists of partially decomposed organic matter and dark brown sandy or silty loam, and extends to an average of five centimeters (two inches) below the ground surface. Nearly all shovel tests contained a plow zone (pz) beneath the topsoil. The plow zone is medium brown silty sand or sandy silt, with occasional pebbles and gravel, and extends to an average depth of 29 centimeters (11.4 inches). Where the plow zone is absent, the upper subsoil (B1 horizon) is a light to medium brown sandy or loamy silt with an average depth of 23 centimeters (9.1 inches). The plow zone (or where present, the B1 horizon) is underlain by the lower subsoil (B2), orange brown silty sand, frequently with pebbles and gravel, less often with cobbles or clay lenses. The substratum (B3 horizon), typically light yellow brown sand, was reached in fifty shovel test pits. Soils that have been disturbed by means other than plowing were encountered in 32 of the test pits dug in 2001 and in 111 of the test pits dug in 2002 (Appendices A and B).

The Mills Pond Prehistoric Site

2001 Field Investigation. The Mills Pond prehistoric site (NYSM #11237) was first identified during a survey performed in advance of possible roadwork around the junction of Mills Pond Road and New York State Route 25A (Barber 2002; Appendix C). Prehistoric artifacts were encountered in shovel test pits dug in the lawn of the Mills House (#660 New York State Route 25A, the southwest quadrant of the intersection), the former agricultural fields on the

Flowerfield property (southeast quadrant [the current project area]), and the active agricultural field (northeast quadrant) north of Mills Pond. Based on the results of the 2001 survey, the Mills Pond site is most densely concentrated in an area just west of the pond, outside of the Gyrodyne property.

The prehistoric cultural material from the Mills Pond site appears to be of fairly low diversity (the assemblage is dominated by quartz chipping debris) and light density (most positive shovel test pits yielded only one artifact. No temporally diagnostic artifacts were found, and no organic materials definitely associated with the prehistoric deposit were identified. Fifteen of the 186 shovel test pits dug in the northwest corner of the Gyrodyne property yielded a total of 16 prehistoric artifacts (15 pieces of quartz debitage and one argillite flake) (Figure 3; Appendix A). Most of the lithics (12) were found in the plow zone, while the remaining four were from contexts disturbed by means other than plowing (Table 1; Appendix A).

2002 Field Investigation. A total of 32 additional prehistoric lithic artifacts was found in 28 of the 1245 shovel test pits dug in the summer of 2002 (Figure 3; Appendix B). This density is significantly lower than the density of prehistoric material in the northwest corner: the 2001 survey resulted in an artifact density of 0.086 artifacts per shovel test pit, while the 2002 survey yielded a density of 0.026 artifacts per test pit (the density of finds in 2001 is 3.3 times greater than that of 2002).

The prehistoric lithic artifacts found in 2002 consist of two bifacial tool fragments, a modified quartz flake, two quartz and quartzite core fragments, and 26 pieces of quartz debitage. The only non-quartz artifact found in 2002 is an untyped small triangular projectile point found in the plow zone of STP S660/W180. The point is made of a gray shale or chert similar in appearance to material from the Normanskill formation along the northern Hudson River. The majority of prehistoric artifacts recovered during the 2002 survey was from the plow zone, while three pieces were from disturbed soils, and two were from the B2 subsoil (Table 1; Appendix B).

The prehistoric lithic artifacts found during the 2002 investigation of the Gyrodyne property in Smithtown probably represent activities associated with the Mills Pond site. Similarly, quartz artifacts found on the Brookhaven side of the Gyrodyne property (McLean 1998a) may be associated with activities that occurred on the outskirts of the Mills Pond site.

However, due to their very light density and relatively low diversity, the lithic artifacts found during the 2002 survey have minimal research potential.

Table 1. Lithic artifacts from the prehistoric Mills Pond site on the Gyrodyne property.

	primary flake	*secondary flake*	*tertiary flake*	*block/ shatter*	*projectile point*	*core*	*biface or modified flake*	*total*
2001 testing								
A0/A1								0
plow zone	1	1	10*					12
disturbed	1	2	1					4
B2								0
2002 testing								
A0/A1								0
plow zone	2	7	12	1	1**	1	3	27
disturbed		1	2					3
B2			1			1		2
total	4	11	26	1	1	2	3	48

Note all artifacts are quartz or quartzite, with the following exceptions:
*includes one argillite flake
**gray chert

The B. Bailey Historic Site

2001 Field Investigation. Like the prehistoric Mills Pond site, the historic period B. Bailey site (NYSM #11236) was first encountered during the autumn 2001 archaeological survey (Barber 2002; Appendix C). It is situated in the northwest corner of the Gyrodyne property. The site location was initially ascertained through an examination of nineteenth century maps, and was subsequently confirmed with subsurface testing. The pre-1858 Bailey house was part of a small rural nineteenth century community clustered around Mills Pond. The house formerly fronted on New York State Route 25A (North Country Road), which was the most important east-west thoroughfare on the north shore of Long Island starting in the early eighteenth century. The B. Bailey site is within the boundaries of, and potentially may be considered a contributing component to, the National Register listed Mills Pond Historic District (90NR1882).

The cultural materials found at the B. Bailey site are a mixture of architectural debris and household refuse. The majority of the artifacts date to the nineteenth century, and include square cut nails (nineteenth century), ball clay smoking pipe fragments (mid-eighteenth through early nineteenth century), creamware (1770-1820), pearlware (1780-1840), and whiteware (1820-1900+), minor amounts of window and bottle glass, soft and hard shell clam, oyster, brick, coal, and slag (Table 2; Appendix A). Virtually all of the historic period artifacts were found in the plow zone or in soils disturbed by other earth-moving activities, while a possible feature associated with the demolition of the B. Bailey house (consisting of lenses of brick rubble and shell) was encountered in STP S22.5/W7.5 (Appendix A). This feature may be associated with the pre-1914 removal of the house.

2002 Field Investigation. No historic period cultural material clearly associated with the B. Bailey site was identified during the 2002 survey. A light scatter of late eighteenth through late twentieth century artifacts was recovered from test pits throughout the Gyrodyne property in Smithtown. Artifacts include household refuse (glass drinking vessel, bottle glass, ceramic food preparation and serving items [dominated by mid- to late nineteenth century whitewares, but with slip decorated redware, stoneware, creamware, painted and printed pearlware, and porcelain], ball clay smoking pipe fragments, a spoon, a gunflint, bone, shell, coal, and slag) and building

debris (window glass, brick, a small fieldstone fragment with mortar, and nails [hand wrought, machine square cut, and wire]) (Appendix B), while twentieth century commercial use of the property is also represented: flowerpot sherds from the early twentieth century plant nursery/bulb farm, and aluminum scraps from the mid-twentieth century helicopter manufacturing at the Gyrodyne Company of America.

No historic period features were encountered during the 2002 survey. Nearly all of the Euro-American material was found in the plow zone, and most was found in the former agricultural fields north of the railroad tracks and in the south central portion of the project area (Figure 3). The light scatter of historic period Euro-American artifacts encountered during the 2002 investigation is probably the result of sporadic dumping of household refuse (possibly as fertilizer) and subsequent dispersal by plowing. As such, it has little potential for contributing to our understanding of past activities in Smithtown.

Table 2. Artifacts from the historic period B. Bailey site; 2001 investigation (Barber 2002:27).

		A0/A1	*plow zone*	*disturbed*	*B2*	*total*
glass	*bottle*		6			6
	curved		24	3		27
	window		23	1		24
	flat		7			7
	other			1		1
ceramic	*creamware*		1		1	2
	pearlware		17	1		18
	whiteware		16	32		48
	ironstone		4			4
	other earthenware		2	1		3
	stoneware		1			1
	porcelain		2			2
	flowerpot		2	7		9
	smoking pipe		1			1
	brick		99	50		149
metal	*square cut nail*		34	6		40
	other		7			7
organic	*animal bone*		2			2
	shell (MNI)		21			21
mineral	*coal/slag*		36			36
	mortar		2			2
	other		7			7
total		0	314	102	1	417

CONCLUSIONS AND RECOMMENDATIONS

A Stage 1B archaeological survey was performed in the summer of 2002 for the Gyrodyne Company of America property in St. James, Town of Smithtown, Suffolk County, New York. Background research had indicated that most of the project area has a moderate sensitivity for the presence of both prehistoric and historic period archaeological deposits. However, certain areas have a high sensitivity for the presence of archaeological remains. These include the northwest corner of the project area where both a prehistoric site (the Mills Pond site) and a historic period site (the nineteenth century B. Bailey domestic site) were encountered during a recent survey conducted in advance of possible road improvements at the junction of Mills Pond Road and New York State Route 25A.

A total of 1245 shovel test pits was excavated in undisturbed portions of the Gyrodyne property in Smithtown for the current investigation. Combined, the 2001 and 2002 archaeological surveys resulted in the excavation of 1431 shovel test pits in the project area.

A very light density of prehistoric cultural material was encountered during the 2002 survey. A total of 32 lithic artifacts (one projectile point, two biface fragments, one modified flake, two core fragments, and 26 pieces of quartz debitage) was found in 28 shovel test pits. This material is likely associated with a denser concentration of lithic artifacts at the Mills Pond site, which extends into the northwest corner of the Gyrodyne property.

Based on the results of the 2001 survey, a Stage 2 site evaluation was recommended for the Mills Pond prehistoric site, including the portion of the site in the northwest corner of the Gyrodyne property (Barber 2002:21). According to New York State guidelines, the purpose of a Stage 2 evaluation is to obtain detailed information on integrity, limits, structure, function, and cultural/historical context of an archaeological site. Typically, this involves the excavation of a series of closely-spaced shovel tests to precisely define the extent and limits of the site, and a number of larger units (1 x 1 meter or larger) to ascertain the contents and integrity of the site. In the case of the prehistoric site on the Gyrodyne property, the Stage 2 investigation is recommended only for the northwest corner, where lithic artifact concentrations are more than three times greater than in the remainder of the project area.

A Stage 2 site evaluation was also recommended for the B. Bailey historic period site (Barber 2002:25-26) in the northwest corner of the Gyrodyne property, because of its potential information it contains regarding nineteenth century rural domestic lifeways. In addition, the site may be eligible for inclusion on the National Register because of its location within, and association with the historic context of, the listed Mills Pond Historic District (90NR1882).

As was the case with the prehistoric cultural material, no further archaeological work is recommended to investigate the Euro-American use of the Gyrodyne property beyond the limits of the B. Bailey site in the northwest corner.

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INTRODUCTION TO APPENDIX A AND APPENDIX B

Basic descriptive data from archaeological surveys on the Gyrodyne property in Smithtown are presented in the following appendices. Excavation, stratigraphic, and artifactual information are included. Excavation information includes shovel test pit (STP) coordinates relative to project datum, level number, stratigraphic designation (stratum), and starting (SD) and ending (ED) depths (in centimeters) for each excavated level.

An inventory of the artifacts recovered during the project is found in the final column. Shellfish quantity is expressed as minimum number of individuals rather than fragment count. Unless indicated otherwise, all Euro-American glass and ceramic sherds are undecorated vessel body portions. All prehistoric stone artifacts from the project are analyzed and classified. Flakes (chipping waste) are placed in one of three categories based on the amount of cortex remaining on the dorsal face. Primary flakes are those with more than 50% of the dorsal face containing cortex. Secondary flakes exhibit cortex over less than 50% of the dorsal face, while tertiary flakes have no cortex remaining. Blocks and shatter are angular fragments which do not show flake scars, but are still considered products of human manufacturing activities. Bifaces are flaked tools which exhibit substantial modification on both the ventral and dorsal surfaces. Tools are made (and waste chipping flakes are removed) from cores.

The following abbreviations are used in the appendices:

Stratum
A0/A1-topsoil
A2-leaching zone
B1-upper subsoil
B2-lower subsoil
B3-substratum
bur-buried
dist-disturbed
pz-plow zone

Soils
bn-brown
cb-cobbles
cl-clay(ey)
dk-dark
gb-gray brown
gr-gray
gv-gravel
lm-loam(y)
lt-light
md-medium
mo-mottled
ob-orange brown
pb-pebbles
sd-sand(y)
st-silt(y)
vy-very
yb-yellow brown

Cultural Material
b/s- block/shatter
frag-fragment
pri-primary
sec-secondary
tert-tertiary
unid-unidentified

APPENDIX A: Autumn 2001 Excavation and Artifact Inventory

STP	SD	ED	Stratum	Soils	Cultural Material
S7.5/W90	0	7	A0/A1	dk bn st lm	
	7	27	dist	mo ob st sd	
	27	37	lens	gr cl	
	37	60	muck	vy dk bn st lm	
S7.5/W75	0	5	A0/A1	dk bn st lm	
	5	21	dist	ob st lm	
	21	32	lens	gr cl	
	32	60	muck	vy dk bn st lm	
S7.5/W60	0	7	A0/A1	dk bn st lm	
	7	23	dist	ob st sd	
	23	42	dist	md bn sd cl	
	42	62	B2	yb sd cl	
S7.5/W45	0	4	A0/A1	dk bn st lm	
	4	30	pz	mo bn st lm	1 ironstone
	30	60	B2	gr cl	
S7.5/W37.5	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn sd lm	2 ironstone, 4 blue printed whiteware, 11 brick, 1 soft clam, 2 animal bone, 1 slag
	33	60	B2	ob sd lm	
S7.5/W30	0	4	A0/A1	dk bn st lm	
	4	28	pz	mo md bn st lm	1 aqua window glass, 1 aqua bottle glass, 2 brown bottle glass, 2 whiteware, 1 brick
	28	60	B2	ob st sd w/pb	
S7.5/W22.5	0	4	A0/A1	dk bn sd lm	
	4	23	pz	md bn lm sd	
	23	60	B2	ob lm sd w/pb&gv	
S7.5/W15	0	4	A0/A1	dk bn sd lm	
	4	12	dist	md bn st lm	1 aqua curved glass, 1 square cut nail
	12	15	lens	gr st cl	
	15	34	dist	md bn st lm	
	34	60	B2	ob sd st	
S7.5/W7.5	0	6	A0/A1	dk bn st lm	
	6	31	pz	mo bn st lm	10 aqua window glass, 5 brick, 1 coal
	31	61	B2	md bn st lm	
S7.5/E0	0	4	A0/A1	dk bn st lm	
	4	31	pz	mo md bn sd lm	1 clear curved glass, 3 aqua flat glass, 1 brick, 1 coal
	31	62	B2	md bn st lm	
S7.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	mo bn sd lm	5 aqua window glass, 1 flowerpot, 3 brick, 2 square cut nails, 1 soft clam, 1 mortar, 1 coal, 3 slag
	32	62	B2	md bn st lm	
S7.5/E15	0	6	A0/A1	dk bn st lm	
	6	35	dist	mo bn sd lm	1 quartz sec flake, 1 melted glass, 3 brick
	35	60	B2	md bn st lm	

STP	SD	ED	Stratum	Soils	Cultural Material
S7.5/E30	0	3	A0/A1	dk bn st lm	
	3	26	pz	mo md bn st lm	
	26	60	B2	ob st lm	
S7.5/E45	0	5	A0/A1	dk bn st lm	
	5	48	pz	md bn sd st	
	48	60	B2	ob st cl	
S7.5/E60	0	4	A0/A1	dk bn st lm	
	4	56	pz	md bn st lm	
	56	60	B2	lt bn st lm	
S7.5/E75	0	6	A0/A1	dk bn st lm	
	6	50	pz	md bn sd st	
	50	60	B2	ob st cl	
S7.5/E90	0	4	A0/A1	dk bn st lm	
	4	24	pz	mo md bn st lm	1 porcelain
	24	60	B2	ob st lm	
S7.5/E105	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st	
	28	63	B2	ob st sd	2 brick, 1 square cut nail, 1 animal bone
S7.5/E120	0	7	A0/A1	dk bn st lm	
	7	28	pz	mo md bn st lm	
	28	60	B2	ob st lm w/pb&gv	
S7.5/E135	0	7	A0/A1	dk bn st lm	
	7	16	pz	md bn st lm	2 pearlware, 1 whiteware
	16	60	B2	ob st cl	
S7.5/E150	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st	
	30	60	B2	ob st cl	
S7.5/E165	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st	
	27	60	B2	ob cl st	
S15/W45	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn sd st	1 aqua window glass, 8 brick
	28	60	B2	yb sd cl w/gv&cb	
S15/W37.5	0	5	A0/A1	dk bn sd lm	
	5	24	pz	md bn sd st	1 aqua window glass, 3 pearlware, 4 brick, 1 square cut nail, 1 coal, 1 mortar
	24	60	B2	ob lm sd w/pb&gv	
S15/W30	0	6	A0/A1	dk bn sd lm	
	6	22	pz	md bn sd st w/pb	4 brick
	22	56	B2	ob lm sd w/pb&gv	
S15/W22.5	0	4	A0/A1	dk bn sd lm	
	4	19	pz	md bn sd st w/pb	
	19	26	dist	mo ob sd cl w/pb&gv	1 clear curved glass, 7 brick
	26	53	B2	ob cl sd w/pb	
S15/W15	0	5	A0/A1	dk bn sd lm	
	5	22	pz	md bn sd st w/pb&gv	
	22	35	dist	mo ob sd cl w/pb&gv	4 brick
	35	58	B2	ob sd w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S15/W7.5	0	4	A0/A1	dk bn sd lm	
	4	15	pz	md bn sd st	1 clear curved glass, 1 brown bottle glass, 1 aqua flat glass, 6 brick, 1 square cut nail, 1 nail, 7 soft clam, 4 hard clam, 1 coal
	15	26	dist	mo ob sd lm w/pb&gv	
	26	54	dist	mo yb cl	
S15/E0	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn sd lm	1 quartz tert flake, 5 clear curved glass, 1 aqua curved glass, 2 aqua flat glass, 2 green curved glass, 1 whiteware, 1 pearlware, 1 pearlware rim, 1 brick, 3 square cut nails, 1 nail, 1 soft clam, 4 coal, 3 slag
S15/E7.5	0	4	A0/A1	dk bn sd lm	
	4	23	pz	md bn sd st	
	23	29	dist	mo yb lm sd w/pb,gv&cb	1 quartz sec flake, 25 whiteware, 5 whiteware rim, 6 flowerpot, 2 brick, 3 square cut nails
	29	50	bur A	md bn cl lm	
	50	60	B2	yb lm w/gr cl	
S15/E15	0	5	A0/A1	dk bn sd lm	
	5	37	dist	mo md bn sd st	1 flowerpot, 2 brick, 2 square cut nails
	37	60	B2	yb sd lm	
S15/E97.5	0	5	A0/A1	dk bn st lm	
	5	49	pz	md bn sd st	
	49	60	B2	ob sd st	
S15/E112.5	0	6	A0/A1	dk bn st lm	
	6	34	pz	md bn sd st	1 aqua flat glass, 1 creamware, 1 pearlware
	34	60	B2	ob sd st	
S15/E127.5	0	6	A0/A1	dk bn st lm	
	6	29	pz	md bn sd st	
	29	60	B2	ob sd st	
S15/E142.5	0	5	A0/A1	dk bn st lm	
	5	36	pz	md bn cl st	
	36	60	B2	ob st cl	
S15/E157.5	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st	1 square cut nail
	30	60	B2	ob cl st	
S22.5/W105	0	4	A0/A1	dk bn st lm	
	4	49	pz	md bn lm st	1 pearlware, 2 asphalt
	49	60	B2	gb st sd	
S22.5/W90	0	6	A0/A1	dk bn st lm	
	6	22	dist	ob st lm	
	22	30	lens	gr cl	
	30	60	muck	vy dk bn st lm	
S22.5/W75	0	7	A0/A1	dk bn st lm	
	7	35	dist	md bn cl st	
	35	60	dist	ob cl st	

STP	SD	ED	Stratum	Soils	Cultural Material
S22.5/W60	0	6	A0/A1	dk bn st lm	
	6	11	pz	md bn sd st	
	11	26	dist	mo ob cl st	
	26	48	dist	md bn cl st	
	48	60	B2	gb cl	
S22.5/W45	0	4	A0/A1	dk bn st lm	
	4	42	pz	md bn sd st	1 aqua window glass, 1 ironstone, 3 brick
	42	60	B2	lt ob cl	
S22.5/W37.5	0	4	A0/A1	dk bn st lm	
	4	40	pz	md bn sd st	1 pearlware, 1 flowerpot, 1 brick, 1 nail
	40	60	B2	ob st sd w/pb,gv&cb	
S22.5/W30	0	3	A0/A1	dk bn st lm	
	3	34	pz	md bn sd st	4 clear curved glass, 2 aqua curved glass, 1 brown bottle glass, 2 pearlware, 1 brown printed whiteware, 1 whiteware, 1 Rockingham, 1 brick, 2 unid metal, 1 soft clam
	34	60	B2	ob st sd w/pb,gv&cb	
S22.5/W22.5	0	3	A0/A1	dk bn st lm	
	3	40	pz	md bn sd st	
	40	51	B2	lt ob cl	
S22.5/W15	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn sd st	1 whiteware, 1 brick
	23	42	dist	dk bn cl	
	42	60	B2	lt ob cl	
S22.5/W7.5	0	4	A0/A1	dk bn st lm	
	4	20	pz	md bn sd st	1 aqua window glass, 1 clear window glass, 1 clear curved glass, 5 whiteware, 1 porcelain, 1 pipe stem, 25 brick, 18 square cut nails, 1 hard clam, 2 coal, 2 asphalt
	20	27	lens	md bn sd st	refuse layer w/shell
	27	48	lens	md bn sd st	refuse layer w/brick
	48	62	B2	lt ob cl	
S22.5/E0	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st	2 brick, 5 square cut nails, 1 soft clam
	34	51	dist	dk bn cl sd	1 coal
	51	60	B2	lt ob cl sd	
S22.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn sd st	5 brick
	31	60	B2	lt ob cl sd	
S22.5/E15	0	10	A0/A1	dk bn st lm	
	10	42	pz	md bn sd st	1 creamware, 4 pearlware, 1 square cut nail, 2 coal
	42	60	B2	lt ob cl sd	
S22.5/E30	0	4	A0/A1	dk bn sd lm	
	4	36	pz	mo md bn sd lm	1 aqua window glass, 1 green curved glass
	36	60	B2	ob sd lm w/pb	
S22.5/E45	0	4	A0/A1	dk bn st lm	
	4	33	pz	md bn sd st	
	33	62	B2	lt ob cl	

STP	SD	ED	Stratum	Soils	Cultural Material
S30/E97.5	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn lm st	1 porcelain, 1 soft clam
	33	60	B2	ob st sd	
S30/E112.5	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn st lm	1 quartz tert flake, 2 aqua flat glass, 1 charcoal
	25	60	B2	ob st cl	
S30/E127.5	0	5	A0/A1	dk bn sd st	
	5	29	pz	md bn sd st	
	29	60	B2	ob cl st	
S30/E142.5	0	7	A0/A1	dk bn st lm	
	7	33	pz	md bn lm st	1 green curved glass, 1 aqua window glass, 1 pearlware
	33	60	B2	ob st cl	
S30/E157.5	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn lm st	
	30	60	B2	ob cl st	
S37.5/W120	0	6	A0/A1	dk bn st lm	
	6	29	dist	ob st lm	
	29	37	lens	gr cl	
	37	60	muck	vy dk bn st lm	
S37.5/W105	0	5	A0/A1	dk bn st lm	
	5	43	dist	mo ob st sd	
	43	60	dist	dk bn st cl	
S37.5/W90	0	6	A0/A1	dk bn st lm	
	6	17	dist	mo ob sd st	
	17	60	dist	md bn sd st w/pb	
S37.5/W75	0	4	A0/A1	dk bn st lm	
	4	45	pz	md bn lm sd	1 creamware, 1 polychrome printed whiteware, 2 whiteware, 2 brick, 1 wire nail, 2 asphalt
	45	60	B2	lt bn cl st w/pb	
S37.5/W60	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn lm st	
	29	60	B2	lt bn st cl	
S37.5/W45	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn cl st	1 brick, 1 hard clam, 1 coal, 1 unid
	23	42	dist	dk bn cl st	
	42	60	B2	ob st cl	
S37.5/W37.5	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn cl st	1 whiteware, 1 nail, 1 coal, 1 asphalt, 1 plastic plant label
	22	52	dist	dk bn cl st	
	52	60	B2	ob cl st	
S37.5/W30	0	4	A0/A1	dk bn st lm	
	4	11	pz	md bn cl st	
	11	57	dist	dk bn cl st	
	57	60	B2	ob st cl	
S37.5/W22.5	0	4	A0/A1	dk bn st lm	
	4	52	dist	md bn cl st	1 pearlware, 20 brick
	52	60	B2	ob st cl	

STP	SD	ED	Stratum	Soils	Cultural Material
S37.5/W15	0	5	A0/A1	dk bn st lm	
	5	53	dist	md bn cl st	1 quartz tert flake, 1 whiteware, 2 glazed brick, 7 brick
	53	60	B2	ob st cl	
S37.5/W7.5	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn st lm	
	33	60	B2	ob st lm	
S37.5/E0	0	4	A0/A1	dk bn st lm	
	4	35	pz	md bn st cl	
	35	60	B2	ob st cl	
S37.5/E7.5	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn st lm	
	31	60	B2	ob st lm	
S37.5/E15	0	4	A0/A1	dk bn st lm	
	4	49	pz	md bn st cl	1 aqua window glass, 1 pearlware, 1 brick, 1 hard clam, 1 soft clam, 1 coal
	49	60	B2	ob st cl	
S37.5/E30	0	3	A0/A1	dk bn sd lm	
	3	36	pz	mo md bn sd lm	1 square cut nail
	36	60	B2	ob sd lm	
S37.5/E45	0	5	A0/A1	dk bn sd lm	
	5	49	pz	md bn st sd	
	49	60	B2	ob st sd	
S37.5/E65	0	6	A0/A1	dk bn st lm	
	6	35	pz	mo md bn st lm	1 quartz tert flake
	35	60	B2	ob st lm	
S37.5/E75	0	6	A0/A1	dk bn st lm	
	6	33	pz	md bn lm st	
	33	60	B2	ob sd st w/pb&gv	
S37.5/E90	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st	
	34	60	B2	ob sd st	
S37.5/E105	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn sd st	
	31	60	B2	ob st cl	
S37.5/E120	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn cl st	
	23	60	B2	ob st cl	
S37.5/E135	0	7	A0/A1	dk bn st lm	
	7	24	pz	mo md bn st lm	
	24	60	B2	ob st lm w/pb&gv	
S37.5/E150	0	4	A0/A1	dk bn st lm	
	4	29	pz	md bn lm st	
	29	60	B2	ob st cl	
S45/W45	0	5	A0/A1	dk bn st lm	
	5	34	dist	vy mo bn st lm	1 clear curved glass, 1 aqua window glass, 1 glazed brick, 1 brick
	34	62	B2	ob st lm	
S45/W37.5	0	4	A0/A1	dk bn st lm	
	4	20	dist	mo bn st lm	

STP	SD	ED	Stratum	Soils	Cultural Material
S45/W30	0	5	A0/A1	dk bn st lm	
	5	23	dist	lt bn st lm	
	23	60	B2	ob st lm	
S45/W22.5	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn st lm	
	35	60	B2	ob st sd	
S45/W15	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn sd st	4 pearlware, 5 brick, 2 shingle
	34	60	B2	yb cl sd	
S45/W7.5	0	6	A0/A1	dk bn st lm	
	6	21	pz	md bn sd st	
	21	61	B2	yb cl	
S45/E0	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn lm sd	
S45/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd st	
S45/E15	0	9	A0/A1	dk bn sd lm	
	9	36	pz	md bn lm sd	
	36	60	B2	dk yb lm sd	
S45/E97.5	0	4	A0/A1	dk bn st lm	
	4	27	pz	md bn cl	
	27	60	B2	ob cl	
S45/E112.5	0	3	A0/A1	dk bn st lm	
	3	30	pz	md bn st cl	
	30	61	B2	ob st cl	
S45/E127.5	0	6	A0/A1	dk bn st cl	
	6	34	pz	md bn sd st	1 creamware
	34	60	B2	ob cl st	
S45/E142.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn st cl	1 soft clam
	32	60	B2	ob st cl	
S45/E157.5	0	4	A0/A1	dk bn st lm	
	4	33	pz	md bn sd cl	
	33	62	B2	ob st cl	
S52.5/W105	0	4	A0/A1	dk bn st lm	
	4	47	pz	md bn lm st	3 aqua window glass, 3 whiteware, 1 unid earthenware, 1 coal, 1 slag
	47	60	B2	ob st sd w/pb&gv	
S52.5/W90	0	6	A0/A1	dk bn st lm	
	6	41	dist	md bn sd st	
	41	60	B2	ob sd st	
S52.5/W75	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn sd st	
	23	62	B2	lt ob st sd w/pb,gv&cb	
S52.5/W15	0	4	A0/A1	dk bn st lm	
	4	34	pz	mo md bn st lm	1 solarized curved glass, 1 green curved glass
	34	60	B2	ob st lm	
S52.5/W7.5	0	6	A0/A1	dk bn st lm	
	6	52	dist	md bn st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S52.5/E7.5	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st	1 aqua flat glass, 1 stoneware
	28	60	B2	ob st sd	
S52.5/E15	0	8	A0/A1	dk bn st lm	
	8	11	pz	md bn st lm	
	11	60	B2	ob st lm	
S52.5/E30	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn sd st	
	35	61	B2	ob st sd	
S52.5/E45	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn sd st	
	33	52	B2	ob st sd	
S52.5/E65	0	4	A0/A1	dk bn lm st	
	4	30	pz	mo md bn st lm	
	30	60	B2	dk bn st lm	
S52.5/E75	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn lm st	1 aqua safety glass, 1 brick
	25	60	B2	ob lm st	
S52.5/E90	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn st sd	
	27	60	B2	ob st sd	
S52.5/E105	0	3	A0/A1	dk bn st lm	
	3	31	pz	md bn sd st	
	31	64	B2	ob st sd	
S52.5/E120	0	2	A0/A1	dk bn st lm	
	2	41	pz	mo md bn st lm	
	41	61	B2	ob st lm w/pb	
S52.5/E135	0	6	A0/A1	dk bn st lm	
	6	28	pz	mo md bn st lm	
	28	60	B2	ob st lm w/pb&gv	
S52.5/E150	0	7	A0/A1	dk bn st lm	
	7	30	pz	md bn cl st	
	30	60	B2	ob st cl	
S60/W22.5	0	4	A0/A1	dk bn st lm	
	4	38	pz	md bn sd st	
	38	60	B2	lt ob st cl	
S60/W15	0	3	A0/A1	dk bn st lm	
	3	34	pz	md bn sd st	
	34	54	B2	lt ob st cl	
S60/W7.5	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn sd st	
	31	60	B2	ob st sd	
S60/E0	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn sd st	
	31	43	B2	ob st sd	
S60/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd st	
	32	61	B2	ob st sd	
S60/E15	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn sd st	
	23	64	B2	lt ob st sd	1 creamware

STP	SD	ED	Stratum	Soils	Cultural Material
S60/E97.5	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn st lm	
	29	60	B2	ob st lm	
S60/E112.5	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn st lm	
	32	60	B2	ob st lm	
S60/E127.5	0	8	A0/A1	dk bn st lm	
	8	32	pz	md bn st lm	2 quartz tert flakes
	32	60	B2	ob st lm	
S60/E142.5	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn st lm	2 whiteware
	29	60	B2	ob st lm	
S60/E157.5	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn st lm	
	25	60	B2	ob st lm	
S67.5/W90	0	3	A0/A1	dk bn st lm	
	3	35	pz	md bn sd st	1 brick, 1 wire nail, 1 slag
	35	61	B2	ob st sd w/pb,gv&cb	
S67.5/W22.5	0	4	A0/A1	dk bn st lm	
	4	39	pz	md bn cl st	1 aqua window glass, 2 brick, 1 coal
	39	60	B2	ob st cl	
S67.5/W15	0	4	A0/A1	dk bn st lm	
	4	39	pz	md bn sd st	
	39	60	B2	ob sd st	
S67.5/W7.5	0	4	A0/A1	dk bn st lm	
	4	42	pz	md bn sd st	1 unid earthenware, 2 brick
	42	60	B2	ob sd st	
S67.5/E0	0	5	A0/A1	dk bn st lm	
	5	43	pz	md bn sd st	
	43	60	B2	ob sd st	
S67.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	51	pz	md bn sd st	4 clear curved glass, 2 square cut nails, 1 brass furniture ornament, 1 rubber frag
	51	60	B2	ob sd st	
S67.5/E15	0	5	A0/A1	dk bn st lm	
	5	48	pz	md bn sd st	
	48	60	B2	ob sd st	
S67.5/E30	0	8	A0/A1	dk bn sd lm	
	8	42	pz	md bn sd st	1 quartz pri flake
	42	60	B2	ob sd st	
S67.5/E45	0	5	A0/A1	dk bn sd lm	
	5	51	pz	md bn st sd	1 square cut nail
	51	60	B2	ob st sd	
S67.5/E62	0	5	A0/A1	dk bn st lm	
	5	26	pz	mo md bn st lm	
	26	60	B2	ob st lm	
S67.5/E75	0	6	A0/A1	dk bn st lm	
	6	31	pz	md bn lm st	
	31	60	B2	ob st lm	

STP	SD	ED	Stratum	Soils	Cultural Material
S67.5/E90	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd	
	30	60	B2	ob st sd	
S67.5/E105	0	3	A0/A1	dk bn st lm	
	3	40	pz	md bn sd st	
	40	61	B2	ob st sd	
S67.5/E120	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd st	
	32	62	B2	ob sd cl	
S67.5/E135	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st	
	34	60	B2	ob st sd	
S67.5/E150	0	3	A0/A1	dk bn lm	
	3	30	pz	md bn sd st	
	30	62	B2	ob st sd	
S75/E97.5	0	6	A0/A1	dk bn st lm	
	6	32	pz	md bn st lm	1 quartz tert flake
	32	60	B2	ob st lm	
S75/E112.5	0	5	A0/A1	dk bn st lm	
	5	39	pz	md bn lm st	1 quartz sec flake, 2 brick, 1 charcoal
	39	60	B2	ob cl st	
S75/E127.5	0	4	A0/A1	dk bn st lm	
	4	19	pz	lt bn sd st	
	19	45	dist	md bn sd st w/pb	1 quartz pri flake, 2 pipe stems, 1 brick, 1 square cut nail
	45	60	B2	ob sd st	
S75/E142.5	0	6	A0/A1	dk bn st lm	
	6	30	pz	md bn st lm	
	30	60	B2	ob st lm	
S82.5/W22.5	0	4	A0/A1	dk bn sd lm	
	4	40	pz	md bn sd lm w/pb,gv&cb	
	40	60	B2	ob sd st w/pb,gv&cb	
S82.5/W15	0	4	A0/A1	dk bn sd lm	
	4	44	pz	md bn sd lm w/gv	
	44	60	B2	lt bn sd cl	
S82.5/W7.5	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn sd lm	
	32	60	B2	lt ob cl st	
S82.5/E0	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn lm st	1 argillite tert flake, 1 brick
	32	60	B2	ob st sd w/pb	
S82.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd lm	
	32	60	B2	ob st cl w/gv	
S82.5/E15	0	4	A0/A1	dk bn st lm	
	4	19	pz	md bn sd st w/gv&cb	1 whiteware rim
	19	42	B2	ob lm st w/cb	
S82.5/E30	0	6	A0/A1	dk bn st lm	
	6	29	pz	md bn lm st	
	29	60	B2	ob lm st	

STP	SD	ED	Stratum	Soils	Cultural Material
S82.5/E45	0	6	A0/A1	dk bn st lm	
	6	23	pz	md bn st lm	
	23	60	B2	ob st cl	
S82.5/E62	0	5	A0/A1	dk bn st lm	
	5	31	pz	mo md bn st lm	
	31	60	B2	ob st lm w/pb&gv	
S82.5/E75	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn lm st	
	33	60	B2	ob st lm	
S82.5/E90	0	5	A0/A1	dk bn sd lm	
	5	41	pz	md bn st sd	
	41	60	B2	ob st sd	
S82.5/E105	0	5	A0/A1	dk bn st lm	
	5	41	pz	md bn sd st	
	41	60	B2	ob st sd	
S82.5/E120	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn lm st	
	33	60	B2	ob cl st	
S82.5/E135	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn cl st	
	35	60	B2	ob st cl	
S82.5/E150	0	6	A0/A1	dk bn st lm	
	6	28	pz	md bn cl st	
	28	60	B2	ob st cl	
S97.5/W22.5	0	4	A0/A1	dk bn st lm	
	4	36	pz	mo md bn cl	
	36	61	B2	ob st lm w/pb,gv&cb	
S97.5/W15	0	4	A0/A1	dk bn sd lm	
	4	36	pz	mo md bn sd lm	1 clear curved glass, 1 brick, 2 square cut nails
	36	60	B2	ob sd lm	
S97.5/W7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	mo md bn sd lm	
	32	60	B2	ob sd lm w/pb	
S97.5/E0	0	4	A0/A1	dk bn sd lm	
	4	36	pz	mo md bn sd lm	
	36	60	B2	ob sd lm w/pb,gv&cb	
S97.5/E7.5	0	5	A0/A1	dk bn sd lm	
	5	28	pz	mo md bn sd lm	
	28	60	B2	ob sd lm	
S97.5/E15	0	4	A0/A1	dk bn sd lm	
	4	33	pz	mo md bn sd lm	
	33	60	B2	ob sd lm	
S97.5/E30	0	4	A0/A1	dk bn sd lm	
	4	24	pz	mo md bn sd lm	
	24	60	B2	ob sd cl	
S97.5/E45	0	4	A0/A1	dk bn sd lm	
	4	31	pz	mo md bn sd lm	
	31	60	B2	ob sd lm w/pb&gv	
S97.5/E62	0	4	A0/A1	dk bn st lm	
	4	32	pz	mo md bn st sd	
	32	60	B2	ob st lm w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S97.5/E75	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn lm st	
	32	60	B2	ob st lm w/pb&gv	
S97.5/E90	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd	
	34	60	B2	ob st sd	
S97.5/E105	0	3	A0/A1	dk bn st lm	
	3	43	pz	md bn sd st	
	43	60	B2	ob st sd	
S97.5/E120	0	7	A0/A1	dk bn st lm	
	7	26	pz	md bn cl st	1 quartz tert flake
	26	60	B2	ob st cl	
S97.5/E130	0	4	A0/A1	dk bn st lm	
	4	30	pz	md bn sd lm	1 aqua curved glass, 1 aqua safety glass
	30	60	B2	ob sd st	
S97.5/E150	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn lm st	1 creamware, 1 aqua flat glass
	28	60	B2	ob st cl	

APPENDIX B: Summer 2002 Excavation and Artifact Inventory

STP	SD	ED	Stratum	Soils	Cultural Material
S15/E180	0	7	A0/A1	dk bn st lm	
	7	30	pz	md bn sd st	
	30	60	B2	ob sd st w/pb	
S15/E195	0	4	A0/A1	dk bn sd lm	
	4	40	pz	md bn st sd	1 clear bottle glass, 1 aqua flat glass, 2 whiteware, 2 nails, 2 coal
	40	62	B2	ob st sd w/pb&gv	
S15/E210	0	5	A0/A1	dk bn st lm	
	5	37	pz	md bn sd st w/pb&gv	
	37	60	B2	ob sd st w/pb&gv	
S15/E225	0	5	A0/A1	dk bn st lm	
	5	36	pz	md bn st sd	1 aqua bottle glass, 1 amber bottle glass, 1 whiteware, 1 mortar
	36	60	B2	ob st sd w/pb&cb	
S15/E240	0	9	A0/A1	dk bn st lm	
	9	31	pz	md bn st sd	
	31	60	B2	ob st sd	
S30/E180	0	4	A0/A1	dk bn sd lm	
	4	37	pz	md bn lm sd	
	37	60	B2	ob lm sd	
S30/E195	0	7	A0/A1	dk bn st lm	
	7	60	pz	md bn lm st	1 spike
S30/E210	0	5	A0/A1	dk bn lm st	
	5	21	pz	md bn sd st	1 pearlware base
	21	47	B2	ob sd st	
	47	60	B3	gb cl st	
S30/E225	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn st sd w/pb	
	32	60	B2	ob st sd w/pb&gv	
S30/E240	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd	
	34	60	B2	ob st sd w/pb&gv	
S30/E255	0	4	A0/A1	dk bn sd lm	
	4	33	pz	md bn st sd	
	33	60	B2	ob st sd w/pb&gv	
S30/E270	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd	
	30	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S30/E285	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd w/pg&gv	
	28	60	B2	ob st sd w/pb,gv&cb	
S30/E300	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn st sd	
	21	60	B2	ob st sd w/pb&gv	
S30/E315	0	4	A0/A1	dk bn sd lm	
	4	20	pz	md bn st sd w/pb	
	20	60	B2	ob st sd w/pb&gv	
S30/E330	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd	
	30	60	B2	ob st sd w/pb&gv	
S30/E345	0	6	A0/A1	dk bn sd lm	
	6	34	pz	md bn sd st	
	34	64	B2	ob sd st w/pb&gv	
S45/E195	0	6	A0/A1	dk bn lm st	
	6	18	pz	md bn sd st w/pb&gv	
	18	25	B2	ob sd st w/pb&gv	
	25	57	dist	mo ob st sd w/pb&gv	
	57	60	B3	lt bn st sd	
S45/E210	0	4	A0/A1	dk bn st sd	
	4	35	pz	md bn st sd	
	35	60	B2	mo ob st sd w/pb&gv	
S45/E225	0	5	A0/A1	dk bn st lm	
	5	25	pz	md bn sd st w/pb&gv	
	25	40	B2	ob sd st w/gv	
	40	60	B3	lt bn cl sd w/gv	
S45/E240	0	6	A0/A1	dk bn st lm	
	6	22	pz	md bn sd st w/pb&gv	
	22	52	B2	ob sd st w/pb&gv	
	52	60	B3	lt bn cl sd w/gv	
S45/E255	0	4	A0/A1	dk bn lm sd	
	4	43	pz	md bn sd st	1 blue printed whiteware
	43	60	B2	ob sd st	
S45/E270	0	4	A0/A1	dk bn st lm	
	4	11	pz	md bn st sd	
	11	60	B2	ob st sd	
S45/E285	0	6	A0/A1	dk bn lm st	
	6	23	pz	md bn sd st w/pb&gv	1 quartz tert flake, 1 hard shell clam
	23	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S45/E300	0	5	A0/A1	dk bn lm sd	
	5	28	pz	md bn sd st	1 square cut nail
	28	60	B2	ob sd st	
S45/E315	0	5	A0/A1	dk bn lm st	
	5	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob sd st w/pb&gv	
S45/E330	0	4	A0/A1	dk bn sd lm	
	4	49	pz	md bn st sd	
	49	62	B2	ob st sd w/pb&gv	
S45/E345	0	4	A0/A1	dk bn sd lm	
	4	25	pz	md bn st sd	
	25	60	B2	ob st sd w/pb&gv	
S45/E360	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb&gv	
S45/E375	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn st sd w/pb&gv	1 recent clear bottle glass, 1 whiteware footing, 3 coal
	36	60	B2	ob st sd w/pb,gv&cb	
S45/E390	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd	1 soft shell clam
	30	60	B2	ob st sd	1 pearlware
S45/E405	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn st sd w/pb&gv	
	32	60	B2	ob st sd w/pb&gv	
S45/E420	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd w/pb&gv	1 polychrome painted pearlware, 1 whiteware
	28	60	B2	ob st sd w/pb&gv	
S60/E180	0	8	A0/A1	dk bn st lm	
	8	44	pz	md bn cl st	
	44	60	B2	ob cl st	
S60/E195	0	5	A0/A1	dk bn sd lm	
	5	40	pz	md bn lm sd	
	40	60	B2	ob lm sd	
S60/E210	0	5	A0/A1	dk bn lm st	
	5	15	pz	md bn sd st w/pb&gv	
	15	31	B2	ob sd st w/pb&gv	
	31	60	B3	lt bn st sd w/pb&gv	
S60/E225	0	7	A0/A1	dk bn lm st	
	7	24	pz	md bn sd st w/pb&gv	
	24	60	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S60/E240	0	5	A0/A1	dk bn st lm	
	5	20	pz	md bn sd st w/pb&gv	
	20	52	dist	ob sd st w/pb&gv	1 creamware, 1 unid earthenware, 1 hand wrought nail
	52	60	B3	lt bn cl sd w/gv	
S60/E255	0	6	A0/A1	dk bn st lm	
	6	49	pz	md bn sd st w/gv	
	49	60	B2	dk ob sd st w/gv	
S60/E270	0	3	A0/A1	dk bn lm st	
	3	13	pz	md bn sd st w/pb&gv	
	13	60	B2	ob sd st w/pb&gv	
S60/E285	0	8	A0/A1	dk bn lm st	
	8	32	pz	md bn sd st w/pb&gv	1 quartz sec flake, 1 creamware
	32	60	B2	ob sd st w/pb&gv	
S60/E300	0	5	A0/A1	dk bn lm sd	
	5	29	pz	md bn sd st	
	29	60	B2	ob sd st	
S60/E315	0	4	A0/A1	dk bn st lm	
	4	27	pz	md bn sd st	
	27	60	B2	ob sd st w/pb	
S60/E330	0	9	A0/A1	dk bn st lm	
	9	46	pz	md bn st sd	
	46	60	B2	ob st sd	
S60/E345	0	4	A0/A1	dk bn st lm	
	4	29	pz	md bn sd st w/pb&gv	1 quartz sec flake, 1 quartz tert flake
	29	60	B2	ob sd st w/pb&gv	
S60/E360	0	3	A0/A1	dk bn sd lm	
	3	33	pz	md bn st sd w/pb&gv	1 brick, 1 square cut nail
	33	60	B2	ob st sd w/pb&gv	
S60/E375	0	4	A0/A1	md bn st lm	
	4	30	pz	md bn st sd	1 creamware rim, 1 clam, 3 coal
	30	60	B2	ob st sd	
S60/E390	0	6	A0/A1	dk bn sd lm	
	6	32	pz	md bn st sd	1 brick
	32	60	B2	ob st sd	
S60/E405	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd w/pb&gv	
	35	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S60/E420	0	6	A0/A1	dk bn sd lm	
	6	22	pz	md bn sd st w/pb,gv&cb	
	22	60	B2	ob sd st w/pb&gv	
S75/E210	0	6	A0/A1	dk bn st lm	
	6	19	pz	md bn sd st w/pb&gv	
	19	27	dist	ob st sd w/gv	
	27	54	dist	mo ob sd st w/pb&gv	
	54	60	B3	gb cl st	
S75/E225	0	6	A0/A1	dk bn lm st	
	6	18	pz	md bn sd st w/pb&gv	1 hand wrought nail
	18	31	B2	ob sd st w/pb&gv	
	31	40	B3	lt bn st sd w/pb&gv	
	40	60	B3	dk ob cl sd w/pb&gv	
S75/E240	0	7	A0/A1	dk bn lm st	
	7	21	pz	md bn sd st w/pb&gv	
	21	42	dist	mo ob sd st w/pb,gv&cb	
	42	60	B3	lt bn st sd w/pb&gv	
S75/E255	0	9	A0/A1	dk bn lm st	
	9	43	pz	md bn sd st	1 amber bottle glass, 1 spike, 1 oyster
	43	60	B2	ob sd st	
S75/E270	0	4	A0/A1	dk bn lm st	
	4	28	pz	md bn sd st w/pb&gv	1 creamware
	28	60	B2	ob sd st w/pb&gv	
S75/E285	0	6	A0/A1	dk bn lm sd	
	6	35	pz	md bn sd st	
	35	60	B2	ob sd st	
S75/E300	0	10	A0/A1	dk bn st lm	
	10	27	pz	md bn st sd	
	27	60	B2	ob st sd	
S75/E315	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn sd st w/pb&gv	1 quartz tert flake, 1 hard shell clam
	32	60	B2	ob sd st w/pb&gv	
S75/E330	0	6	A0/A1	dk bn st lm	
	6	42	pz	md bn sd st w/pb&gv	1 pearlware base, 1 soft shell clam
	42	60	B2	ob sd st w/pb&gv	
S75/E345	0	6	A0/A1	dk bn st lm	
	6	29	pz	md bn sd st w/pb&gv	1 glazed redware, 1 black printed whiteware
	29	60	B2	ob sd st w/pb&gv	1 green glass cup

STP	SD	ED	Stratum	Soils	Cultural Material
S75/E360	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	
S75/E375	0	3	A0/A1	md bn st lm	
	3	28	pz	md bn st sd	1 melted green glass
	28	60	B2	ob st sd	
S75/E390	0	5	A0/A1	dk bn sd lm	
	5	26	pz	md bn st sd w/pb&gv	1 unid earthenware, 1 brick
	26	60	B2	pb st sd w/pb&gv	
S75/E405	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn st sd w/pb&gv	
	33	60	B2	ob st sd w/pb&gv	
S75/E420	0	6	A0/A1	dk bn sd lm	
	6	27	pz	md bn st sd	
	27	60	B2	ob st sd	
S75/E435	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn sd st w/pb&gv	
	31	60	B2	ob sd st w/pb&gv	
S75/E450	0	7	A0/A1	dk bn st lm	
	7	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob sd st w/pb&gv	
S75/E465	0	6	A0/A1	dk bn st lm	
	6	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob st sd w/pb,gv&cb	
S90/E210	0	5	A0/A1	dk bn st lm	
	5	17	pz	md bn st sd	
	17	60	B2	ob st sd	
S90/E225	0	3	A0/A1	dk bn sd lm	
	3	21	pz	md bn sd st	
	21	43	B2	ob sd st	1 green glass cup rim
	43	60	B3	mo yb sd st w/pb	
S90/E240	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn sd st	
	28	40	B2	ob sd st	
	40	60	B3	gb sd st	
S90/E255	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn sd st	
	24	60	B2	ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S90/E270	0	4	A0/A1	dk bn lm sd	
	4	29	pz	md bn st sd	1 dark green bottle glass, 1 glazed trailed slip redware, 1 pearlware
	29	60	B2	ob sd st	
S90/E285	0	9	A0/A1	dk bn st lm	
	9	28	pz	md bn st sd	2 quartz sec flakes, 1 brick
	28	60	B2	ob st sd	
S90/E300	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/pb&gv	
	29	60	B2	ob sd st w/pb&gv	
S90/E315	0	2	A0/A1	dk bn lm st	
	2	51	pz	md bn sd st	
S90/E330	0	8	A0/A1	dk bn st lm	
	8	48	pz	md bn sd st w/pb&gv	
	48	60	B2	ob sd st w/pb&gv	
S90/E345	0	4	A0/A1	dk bn st lm	
	4	35	pz	md bn sd st w/pb&gv	1 pearlware, 1 unid earthenware, 2 coal
	35	60	B2	ob sd st w/pb&gv	
S90/E360	0	6	A0/A1	dk bn sd lm	
	6	38	pz	md bn st sd w/pb&gv	
	38	60	B2	ob st sd w/pb&gv	
S90/E375	0	3	A0/A1	md bn st lm	
	3	42	pz	md bn st sd	2 aqua window glass, 1 whiteware, 1 brick, 1 coal
	42	60	B2	ob st sd	
S90/E390	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn st sd	
	32	60	B2	ob st sd	
S90/E405	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb&gv	1 creamware rim
	30	60	B2	ob st sd w/pb&gv	
S90/E420	0	4	A0/A1	dk bn sd lm	
	4	31	pz	md bn st sd	
	31	60	B2	ob st sd	
S90/E435	0	6	A0/A1	dk bn st lm	
	6	23	pz	md bn sd st w/pb&gv	1 blue painted pearlware rim, 1 pearlware
	23	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S90/E450	0	7	A0/A1	dk bn st lm	
	7	29	pz	md bn sd st w/pb&gv	
	29	60	B2	ob sd st w/pb&gv	
S90/E465	0	5	A0/A1	dk bn sd lm	
	5	36	pz	md bn st sd	1 clear bottle glass
	36	60	B2	ob st sd	
S90/E480	0	7	A0/A1	dk bn st lm	
	7	30	pz	md bn sd st w/pb&gv	1 metal light bulb base
	30	60	B2	ob sd st w/pb&gv	
S90/E495	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn st sd w/pb&gv	
	35	60	B2	ob st sd w/pb&gv	
S90/E510	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd w/pb&gv	
	28	60	B2	ob st sd w/pb&gv	
S105/E210	0	4	A0/A1	dk bn sd lm	
	4	23	pz	md bn st sd	1 creamware
	23	42	B2	ob st sd w/pb&gv	
	42	60	B3	mo ob st sd	
S105/E225	0	9	A0/A1	dk bn st lm	
	9	26	pz	md bn st sd	1 whiteware
	26	60	B2	ob st sd	
S105/E240	0	2	A0/A1	dk bn lm st	
	2	12	pz	md bn sd st w/pb&gv	
	12	35	dist	mo ob st sd w/pb&gv	
	35	60	B3	lt bn st sd w/pb&gv	
S105/E255	0	7	A0/A1	dk bn st lm	
	7	14	pz	md bn sd st w/pb&gv	
	14	34	dist	ob st sd w/gv	
	34	39	dist	mo ob sd st w/pb&gv	
	39	60	B3	gb cl sd w/gv	
S105/E270	0	4	A0/A1	dk bn lm st	
	4	32	pz	md bn sd st	1 hard shell clam
	32	60	B2	ob sd st	
S105/E285	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/gv	
	29	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S105/E300	0	5	A0/A1	dk bn lm st	
	5	29	pz	md bn sd st	1 whiteware, 1 brick
	29	60	B2	ob sd st	
S105/E315	0	3	A0/A1	dk bn sd lm	
	3	42	pz	md bn sd st	
	42	62	B2	ob sd st w/pb	
S105/E330	0	5	A0/A1	dk bn st lm	
	5	60	pz	md bn sd st w/pb&gv	1 creamware, 1 whiteware rim
S105/E345	0	7	A0/A1	dk bn st lm	
	7	47	pz	md bn sd st w/pb&gv	
	47	60	B2	ob sd st w/pb&gv	
S105/E360	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	
S105/E375	0	3	A0/A1	md bn st lm	
	3	26	pz	md bn st sd	
	26	60	B2	ob cl st	
S105/E390	0	5	A0/A1	dk bn sd lm	
	5	22	pz	md bn st sd	1 creamware
	22	60	B2	ob cl st	
S105/E405	0	4	A0/A1	dk bn sd lm	
	4	33	pz	md bn st sd w/pb&gv	
	33	60	B2	ob st sd w/pb&gv	
S105/E420	0	2	A0/A1	dk bn sd lm	
	2	22	pz	md bn st sd w/pb&gv	
	22	60	B2	ob st sd w/pb&gv	
S105/E435	0	6	A0/A1	dk bn st lm	
	6	30	pz	md bn sd st w/pb&gv	2 whiteware, 1 brick
	30	60	B2	ob sd st w/pb&gv	
S105/E450	0	5	A0/A1	dk bn sd lm	
	5	36	pz	md bn st sd w/pb&gv	1 aqua window glass, 1 creamware, 1 pearlware, 2 brick
	36	60	B2	ob st sd w/pb,gv&cb	
S105/E465	0	6	A0/A1	dk bn st lm	
	6	41	pz	md bn sd st w/pb&gv	1 ball clay pipe bowl, 1 square cut nail
	41	53	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S105/E480	0	6	A0/A1	dk bn st lm	
	6	36	pz	md bn sd st w/pb&gv	1 ball clay pipe stem (5/64"), 1 red painted creamware, 1 polychrome pearlware rim, 1 pearlware, 1 whiteware
	36	60	B2	ob sd st w/pb&gv	
S105/E495	0	3	A0/A1	dk bn sd lm	
	3	34	pz	md bn st sd w/pb&gv	1 brick
	34	60	B2	ob st sd w/pb &gv	
S105/E510	0	3	A0/A1	dk bn sd lm	
	3	35	pz	md bn st sd w/pb&gv	1 creamware
	35	60	B2	ob st sd w/pb&gv	
S105/E525	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn sd st w/pb&gv	1 spike
	25	60	B2	ob sd st w/gv	
S105/E540	0	6	A0/A1	dk bn st lm	
	6	27	pz	md bn sd st w/pb&gv	1 whiteware
	27	60	B2	ob sd st w/pb,gv&cb	
S105/E555	0	6	A0/A1	dk bn st lm	
	6	36	pz	md bn sd st w/pb&gv	1 stoneware, 1 square cut nail
	36	60	B2	ob sd st w/pb&gv	1 hand wrought nail
S120/E0	0	9	A0/A1	dk bn lm st	
	9	35	pz	md bn sd st w/pb&gv	
	35	60	B2	ob sd st w/pb&gv	
S120/E45	0	9	A0/A1	dk bn lm st	
	9	28	pz	md bn sd st w/pb&gv	
	28	60	pz	ob sd st	
S120/E75	0	6	A0/A1	dk bn lm st	
	6	31	pz	md bn sd st w/pb&gv	
	31	60	B2	ob sd st w/pb&gv	
S120/E90	0	8	A0/A1	dk bn lm st	
	8	33	pz	md bn sd st w/pb&gv	
	33	60	B2	ob sd st w/pb&gv	
S120/E105	0	6	A0/A1	dk bn lm st	
	6	32	pz	md bn sd st w/pb&gv	
	32	60	B2	ob sd st w/pb&gv	
S120/E120	0	7	A0/A1	dk bn lm st	
	7	31	pz	md bn sd st w/pb&gv	1 blue printed pearlware, 1 hand wrought nail
	31	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S120/E135	0	10	A0/A1	dk bn lm st	
	10	37	pz	md bn sd st	1 blue painted pearlware
	37	60	B2	ob sd st w/pb,gv&cb	
S120/E150	0	7	A0/A1	dk bn lm st	
	7	35	pz	md bn sd st w/pb&gv	1 soft shell clam
	35	60	B2	ob sd st w/pb&gv	
S120/E210	0	6	A0/A1	dk bn lm st	
	6	21	pz	md bn lm st	
	21	40	B2	ob sd st	
	40	60	B3	mo lt bn st sd w/pb&gv	
S120/E225	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn sd st w/pb&gv	
	32	60	B2	ob sd st w/pb&gv	
S120/E300	0	7	A0/A1	dk bn st lm	
	7	26	pz	md bn sd st w/pb&gv	1 blue painted pearlware, 1 iron fence staple
	26	60	B2	ob sd st w/pb&gv	
S120/E315	0	5	A0/A1	dk bn st lm	
	5	22	pz	md bn sd st w/pb&gv	1 coal
	22	40	dist	ob sd st w/pb&gv	
	40	60	dist	md bn sd st w/pb,gv&cb	1 hand wrought nail
S120/E330	0	5	A0/A1	dk bn sd lm	
	5	54	pz	md bn st sd	2 hand wrought nails
	54	60	B2	ob st sd	
S120/E345	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd	
	29	60	B2	ob st sd	
S120/E360	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb&gv	
S120/E375	0	3	A0/A1	md bn st lm	
	3	24	pz	md bn st sd	1 pearlware foot ring
	24	60	B2	ob cl st	
S120/E390	0	2	A0/A1	dk bn sd lm	
	2	26	pz	md bn st sd	
	26	60	B2	ob st cl	
S120/E405	0	3	A0/A1	dk bn sd lm	
	3	31	pz	md bn st sd w/pb&gv	
	31	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S120/E420	0	3	A0/A1	dk bn sd lm	
	3	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb,gv&cb	
S120/E435	0	6	A0/A1	dk bn st lm	
	6	27	pz	md bn sd st w/pb&gv	2 dark green bottle glass, 1 clear bottle glass
	27	60	B2	ob sd st w/pb&gv	
S120/E450	0	2	A0/A1	dk bn sd lm	
	2	36	pz	md bn sd st	7 clear bottle glass
	36	60	B2	ob sd st w/cb	
S120/E465	0	4	A0/A1	dk bn sd lm	
	4	31	pz	md bn sd st	1 porcelain
	31	60	B2	ob st sd	
S120/E480	0	3	A0/A1	dk bn st lm	
	3	29	pz	md bn sd st	
	29	57	B2	ob sd st w/pb&gv	
S120/E495	0	3	A0/A1	lt bn st lm	
	3	34	pz	md bn st sd	1 whiteware, 1 coal
	34	60	B2	ob st sd	
S120/E510	0	3	A0/A1	dk bn sd lm	
	3	34	pz	md bn st sd w/pb&gv	1 whiteware rim
	34	60	B2	ob st sd w/pb&gv	
S120/E525	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn sd st w/pb&gv	
	23	60	B2	ob bn sd st w/gv	
S120/E540	0	7	A0/A1	dk bn st lm	
	7	34	pz	md bn sd st w/pb&gv	1 whiteware, 1 coal, 1 slag
	34	60	B2	ob sd st	1 creamware
S120/E555	0	2	A0/A1	dk bn st lm	
	2	37	pz	md bn sd st	
	37	60	B2	ob sd st w/pb	
S120/E570	0	5	A0/A1	dk bn sd lm	
	5	47	pz	md bn sd st	1 red printed whiteware
	47	60	B2	ob st sd	
S135/E30	0	11	A0/A1	dk bn lm st	
	11	33	pz	md bn sd st	
	33	60	B2	ob sd st	
S135/E45	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/pb&gv	
	29	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S135/E75	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn sd st w/gv	
	35	60	B2	ob sd st w/pb&gv	
S135/E90	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st w/gv	1 quartz sec flake
	30	60	B2	ob sd st w/pb&gv	1 glazed redware
S135/E105	0	6	A0/A1	dk bn st lm	
	6	34	pz	md bn sd st w/pb&gv	1 aqua flat glass, 1 creamware, 1 blue printed pearlware, 1 square cut nail
	34	60	B2	ob st sd w/pb&gv	
S135/E120	0	5	A0/A1	dk bn st lm	
	5	34	pz	md bn sd st w/pb&gv	1 creamware
	34	60	B2	ob sd st w/pb&gv	
S135/E135	0	7	A0/A1	dk bn st lm	
	7	42	pz	md bn sd st w/pb&gv	
	42	60	B2	ob sd st w/pb&gv	
S135/E150	0	7	A0/A1	dk bn st lm	
	7	36	pz	md bn sd st w/pb,gv&cb	1 olive bottle glass
	36	60	B2	ob sd st w/pb,gv&cb	
S135/E210	0	5	A0/A1	md bn sd lm	
	5	23	pz	md bn st sd	
	23	36	B2	ob sd st w/pb&gv	
	36	60	B3	mo ob cl st	
S135/E225	0	5	A0/A1	dk bn st lm	
	5	18	pz	md bn sd st w/pb&gv	
	18	60	B2	ob sd st w/pb&gv	
S135/E240	0	8	A0/A1	dk bn st lm	
	8	25	pz	md bn st sd	
	25	60	B2	ob st sd w/pb,gv&cb	
S135/E255	0	5	A0/A1	dk bn lm st	
	5	30	pz	md bn sd st	1 pearlware
	30	60	B2	ob sd st	
S135/E270	0	7	A0/A1	dk bn lm st	
	7	28	pz	md bn sd st w/pb&gv	1 blue painted porcelain rim, 1 whiteware, 1 nail
	28	60	B2	ob st sd w/pb&gv	
S135/E300	0	6	A0/A1	dk bn st lm	
	6	30	pz	md bn sd st w/pb&gv	1 dark green bottle glass
	30	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S135/E315	0	5	A0/A1	dk bn st lm	
	5	22	pz	md bn sd st w/pb&gv	
	22	60	B2	ob sd st w/pb&gv	
S135/E330	0	4	A0/A1	dk bn st lm	
	4	24	pz	md bn st sd	
	24	60	B2	ob st sd	
S135/E345	0	5	A0/A1	dk bn sd lm	
	5	36	pz	md bn st sd w/pb&gv	
	36	60	B2	ob st sd w/pb&gv	
S135/E360	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn st sd w/pb&gv	
	35	60	B2	ob st sd w/pb&gv	
S135/E375	0	3	A0/A1	md bn st lm	
	3	31	pz	md bn st sd	
	31	60	B2	ob st sd	
S135/E390	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd	1 ball clay pipe elbow (4/64"), 1 whiteware
	26	39	B2	ob st sd	
	39	60	B3	gb cl st	
S135/E420	0	5	A0/A1	dk bn sd lm	
	5	44	pz	md bn st sd	
	44	60	B2	ob st sd	
S135/E435	0	4	A0/A1	dk bn st lm	
	4	22	pz	md bn sd st w/pb&gv	1 glazed redware
	22	60	B2	ob st sd w/pb&gv	
S135/E450	0	3	A0/A1	dk bn sd lm	
	3	33	pz	md bn sd st	
	33	52	B2	ob sd st w/pb&cb	
S135/E465	0	8	A0/A1	dk bn st lm	
	8	30	pz	md bn sd st w/pb&gv	
	30	60	B2	ob sd st w/pb,gv&cb	
S135/E480	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob st sd w/pb&gv	1 olive bottle glass
S135/E495	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn st sd w/pb&gv	
	32	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S135/E510	0	3	A0/A1	dk bn sd lm	
	3	32	pz	md bn st sd w/pb&gv	1 brick
	32	60	B2	ob st sd w/pb&gv	
S135/E525	0	6	A0/A1	dk bn st lm	
	6	32	pz	md bn sd st	1 pearlware
	32	60	B2	ob bn st sd w/pb&gv	
S135/E540	0	6	A0/A1	dk bn st lm	
	6	38	pz	dk bn sd st w/pb&gv	
	38	60	B2	ob sd st w/pb,gv&cb	
S135/E555	0	8	A0/A1	lt bn st lm	
	8	28	pz	md bn st sd	1 pearlware
	28	60	B2	ob st sd	
S135/E570	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd	1 brick
	26	60	B2	ob st sd	
S135/E585	0	3	A0/A1	dk bn sd lm	
	3	30	pz	md bn st sd w/pb&gv	1 spike
	30	60	B2	ob st sd w/pb&gv	
S150/E0	0	7	A0/A1	dk bn st lm	
	7	34	pz	md bn sd st w/pb&gv	1 blue printed pearlware
	34	60	B2	ob sd st w/pb&gv	
S150/E15	0	6	A0/A1	dk bn st lm	
	6	34	pz	md bn sd st w/pb&gv	
	34	60	B2	ob sd st w/pb&gv	
S150/E30	0	5	A0/A1	dk bn st lm	
	5	39	pz	md bn sd st w/pb&gv	1 blue printed pearlware, 1 cement
	39	60	B2	ob sd st w/pb&gv	
S150/E45	0	5	A0/A1	dk bn st lm	
	5	39	pz	md bn sd st w/pb&gv	1 green painted creamware rim
	39	60	B2	ob sd st w/pb&gv	
S150/E60	0	4	A0/A1	dk bn lm st	
	4	38	pz	md bn sd st	1 clear bottle glass, 1 whiteware, 1 hand wrought nail, 1 rubber hose
	38	60	B2	ob st sd	
S150/E75	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/gv	1 flowerpot
	29	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S150/E90	0	7	A0/A1	dk bn lm st	
	7	23	pz	md bn sd st w/pb,gv&cb	1 hand wrought nail, 1 cement
	23	47	pz	md bn sd st	
	47	60	B2	ob sd st	
S150/E105	0	5	A0/A1	dk bn lm st	
	5	40	pz	md bn sd st	
	40	60	B2	mo md bn sd st	
S150/E120	0	7	A0/A1	dk bn st lm	
	7	35	pz	md bn sd st w/pb&gv	1 dark green bottle glass, 1 glazed redware, 1 coal
	35	60	B2	ob sd st w/pb&gv	
S150/E135	0	5	A0/A1	dk bn st lm	
	5	34	pz	md bn sd st w/gv	
	34	60	B2	ob sd st w/gv	
S150/E150	0	5	A0/A1	dk bn lm st	
	5	36	pz	md bn sd st	1 amber glass bead, 1 salt glazed stoneware, 1 square cut nail
	36	60	B2	ob sd st	
S150/E165	0	8	A0/A1	dk bn lm st	
	8	38	pz	md bn sd st	
	38	60	B2	ob sd st	
S150/E180	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st	1 creamware
	30	60	B2	ob st sd	
S150/E195	0	24	pz	md bn st sd	
	24	60	B2	ob st sd	
S150/E210	0	4	A0/A1	dk bn sd lm	
	4	21	dist	mo md bn sd st w/pb,gv&cb	
	21	45	pz	md bn sd st w/pb,gv&cb	1 aqua window glass
	45	65	B2	ob sd st w/pb&gv	
S150/E225	0	4	A0/A1	dk bn st lm	
	4	36	pz	md bn st sd	
	36	55	B2	ob st sd w/pb	1 hard shell clam
S150/E240	0	5	A0/A1	dk bn sd st	
	5	42	pz	md bn sd st	
	42	60	B2	ob sd st w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S150/E255	0	5	A0/A1	dk bn sd lm	
	5	40	pz	md bn sd st w/pb,gv&cb	
	40	62	B2	ob st sd w/pb,gv&cb	
S150/E270	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn sd st	1 bolt
	31	60	B2	ob sd st w/gv	
S150/E285	0	22	pz	md bn st sd	
	22	60	B2	ob st sd	
S150/E300	0	4	A0/A1	dk bn sd lm	
	4	45	pz	md bn sd st w/pb&gv	1 whiteware
	45	66	B2	ob sd st w/pb,gv&cb	
S150/E315	0	5	A0/A1	dk bn st lm	
	5	36	pz	md bn sd st w/gv	8 coal
	36	60	B2	ob st sd w/gv	
S150/E330	0	4	A0/A1	dk bn sd st	
	4	25	pz	md bn sd st	
	25	60	B2	ob sd st	
S150/E345	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn sd st w/pb,gv&cb	1 whiteware rim
	30	60	B2	ob sd st w/pb,gv&cb	
S150/E360	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn sd st	
	24	60	B2	ob sd st w/pb&gv	
S150/E375	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn sd st	
	34	60	B2	ob sd cl w/pb	
S150/E390	0	6	A0/A1	dk bn st lm	
	6	32	pz	md bn sd st w/pb&gv	
	32	60	B2	ob sd st w/pb&gv	
S150/E405	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn sd st	1 glazed redware
	28	49	pz	dk bn sd st	1 solarized bottle glass
	49	60	B2	ob sd st	
S150/E420	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn sd st w/pb,gv&cb	
	32	60	B2	ob sd st w/pb,gv&cb	
S150/E435	0	26	pz	md bn st sd w/pb,gv&cb	
	26	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S150/E450	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/pb&gv	
	29	60	B2	ob sd st w/pb&gv	
S150/E465	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn sd st w/pb,gv&cb	
	35	62	B2	ob sd st w/pb,gv&cb	
S150/E480	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn sd st	
	28	46	B2	ob sd st w/pb	1 blue painted pearlware
	46	60	B3	yb st sd w/pb	
S150/E495	0	5	A0/A1	dk bn sd lm	
	5	25	pz	md bn sd st	
	25	60	B2	ob sd st	
S150/E510	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn sd st	1 dark green bottle glass, 2 brick
	35	61	B2	ob sd st w/pb,gv&cb	
	61	66	B3	yb st sd w/pb	
S150/E525	0	7	A0/A1	dk bn st lm	
	7	34	pz	md bn sd st w/pb&gv	2 polychrome painted pearlware, 1 brick, 2 coal
	34	60	B2	ob sd st w/pb&gv	
S150/E540	0	11	A0/A1	dk bn st lm	1 unid earthenware
	11	33	pz	md bn st sd	1 nail
	33	60	B2	ob st cl	
S150/E555	0	4	A0/A1	dk bn sd st	
	4	30	pz	md bn sd st	1 coal
	30	62	B2	ob sd st w/pb,gv&cb	
S150/E570	0	5	A0/A1	dk bn sd st	
	5	24	pz	md bn sd st	1 creamware rim, 2 brick, 1 flowerpot
	24	60	B2	ob sd st	
S150/E585	0	5	A0/A1	dk bn sd lm	
	5	26	pz	md bn sd st	
	26	60	B2	ob sd st	
S150/E600	0	5	A0/A1	dk bn st lm	
	5	26	pz	md bn sd st w/pb&gv	1 wire nail
	26	52	B2	ob sd st w/pb&gv	4 coal, 2 slag
	52	60	B3	lt bn st sd w/pb&gv	
S150/E615	0	10	A0/A1	dk bn sd lm	
	10	34	pz	md bn st sd w/pb	
	34	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S150/E630	0	14	pz	md bn st sd	
	14	60	B2	ob st sd w/gv	
S165/E0	0	8	A0/A1	dk bn lm st	
	8	34	pz	md bn sd st w/pb&gv	
	34	60	B2	ob sd st w/pb&gv	1 flowerpot
S165/E15	0	5	A0/A1	dk bn lm st	
	5	41	pz	md bn sd st	1 clear bottle glass, 1 brick
	41	60	B2	ob st sd	
S165/E30	0	12	A0/A1	dk bn lm st	
	12	36	pz	md bn sd st w/pb&gv	2 coal
	36	60	B2	ob sd st w/pb&gv	
S165/E45	0	4	A0/A1	dk bn lm st	
	4	35	pz	md bn sd st	1 blue painted porcelain
	35	60	B2	ob st sd	1 quartz tert flake
S165/E60	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd	
	35	60	B2	ob st sd w/pb&gv	
S165/E75	0	8	A0/A1	dk bn st lm	
	8	29	pz	md bn st sd	
	29	60	B2	ob st sd	
S165/E90	0	4	A0/A1	dk bn lm st	
	4	29	pz	md bn sd st	
	29	60	B2	ob sd st	
S165/E105	0	11	A0/A1	dk bn st lm	
	11	25	pz	md bn st sd	1 pearlware
	25	60	B2	ob st sd w/pb&gv	
S165/E120	0	8	A0/A1	dk bn st lm	
	8	27	pz	md bn st sd	
	27	60	B2	ob st sd w/pb,gv&cb	
S165/E135	0	11	A0/A1	dk bn st lm	
	11	32	pz	md bn st sd	
	32	60	B2	ob st sd	
S165/E150	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn st sd	
	35	60	B2	ob st sd w/pb&gv	
S165/E165	0	5	A0/A1	dk bn sd lm	
	5	37	pz	md bn st sd	
	37	60	B2	ob st sd w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S165/E180	0	8	A0/A1	dk bn st lm	
	8	35	pz	md bn st sd	1 whiteware
	35	60	B2	ob st sd	
S165/E195	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd	
	34	60	B2	ob st sd w/pb&gv	
S165/E210	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn sd st w/gv	1 soft shell clam, 2 unid iron metal part
	35	60	B2	ob sd st w/gv	
S165/E225	0	4	A0/A1	dk bn st lm	
	4	25	pz	md bn sd st w/pb	
	25	60	B2	ob sd st w/pb&gv	
S165/E240	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn sd st w/pb&gv	
	24	60	B2	ob sd st w/pb&gv	
S165/E255	0	2	A0/A1	dk bn sd lm	
	2	33	pz	md bn st sd	
	33	60	B2	ob st sd w/pb,gv&cb	1 aqua window glass
S165/E270	0	5	A0/A1	dk bn st lm	
	5	34	pz	md bn sd st w/pb&gv	
	34	60	B2	ob sd st w/pb&gv	
S165/E285	0	3	A0/A1	md bn st lm	
	3	39	pz	md bn st sd	
	39	60	B2	ob st sd	
S165/E300	0	4	A0/A1	dk bn st lm	
	4	20	pz	md bn sd sd w/pb&gv	
	20	60	B2	ob sd st w/pb&gv	
S165/E315	0	8	A0/A1	dk bn st lm	
	8	23	pz	md bn sd st w/pb&gv	
	23	60	B2	ob sd st w/pb&gv	
S165/E330	0	6	A0/A1	dk bn sd lm	
	6	38	pz	md bn st sd	1 whiteware
	38	60	B2	ob st sd	
S165/E345	0	3	A0/A1	dk bn sd lm	
	3	31	pz	md bn st sd w/pb&gv	
	31	60	B2	ob st sd w/pb&gv	
S165/E360	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd w/pb&gv	1 brick
	28	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S165/E375	0	3	A0/A1	md bn st lm	
	3	30	pz	md bn st sd	
	30	60	B2	ob st sd	
S165/E390	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd	
S165/E405	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn st sd w/pb&gv	
	36	60	B2	ob st sd w/pb&gv	
S165/E420	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb&gv	
	26	60	B2	ob st sd w/pb&gv	
S165/E435	0	6	A0/A1	dk bn st lm	
	6	20	pz	md bn sd st w/pb&gv	1 iron wire
	20	60	B2	ob st sd w/pb,gv&cb	
S165/E450	0	2	A0/A1	dk bn sd lm	
	2	29	pz	md bn sd st	1 pearlware
	29	56	B2	ob sd st w/cb	
S165/E465	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st w/pb&gv	
	34	60	B2	ob sd st w/pb&gv	
S165/E480	0	8	A0/A1	dk bn st lm	
	8	34	pz	md bn sd st w/pb&gv	
	34	60	B2	ob sd st w/pb&gv	
S165/E495	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb&gv	
S165/E510	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn sr sd w/pb&gv	
	36	60	B2	ob st sd w/pb&gv	
S165/E525	0	6	A0/A1	dk bn st lm	
	6	33	pz	md bn sd st w/pb&gv	
	33	60	B2	ob st sd w/pb&gv	1 square cut nail
S165/E540	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st w/pb&gv	
	27	60	B2	ob sd st w/pb,gv&cb	
S165/E555	0	5	A0/A1	lt bn st lm	
	5	29	pz	md bn st sd	1 hard shell clam, 2 coal
	29	60	B2	ob cl st	

STP	SD	ED	Stratum	Soils	Cultural Material
S165/E570	0	6	A0/A1	dk bn sd lm	
	6	35	pz	md bn st sd w/pb	1 blue printed pearlware base, 1 whiteware
	35	60	B2	ob st sd w/pb	
S165/E585	0	2	A0/A1	dk bn sd lm	
	2	34	pz	md bn sd st	1 aqua window glass, 1 creamware rim
	34	60	B2	mo ob sd st	1 salt glazed stoneware handle
S180/E0	0	6	A0/A1	dk bn lm st	
	6	47	pz	md bn sd st	
	47	61	B2	ob sd st	
S180/E15	0	5	A0/A1	dk bn lm st	
	5	50	pz	md bn sd st	1 brick
	50	60	B2	mo ob sd st	
S180/E30	0	11	A0/A1	dk bn lm st	
	11	57	pz	md bn sd st w/pb&gv	1 coal
	57	60	B2	ob st sd w/pb&cb	
S180/E45	0	4	A0/A1	dk bn lm st	
	4	41	pz	md bn sd st	
	41	60	B2	ob st sd	
S180/E60	0	5	A0/A1	dk bn lm st	
	5	23	pz	md bn sd st	
	23	60	B2	ob sd st	
S180/E75	0	3	A0/A1	dk bn sd lm	
	3	26	pz	md bn sd st	
	26	51	B2	ob sd st	
	51	60	B3	mo gb sd st	
S180/E90	0	4	A0/A1	dk bn sd lm	
	4	31	pz	md bn st sd	
	31	60	B2	ob st sd w/pb&gv	
S180/E105	0	6	A0/A1	dk bn sd lm	
	6	26	pz	md bn sd st	
	26	60	B2	ob sd st w/pb	1 hard shell clam
S180/E120	0	5	A0/A1	dk bn lm st	
	5	30	pz	md bn sd st	
	30	45	B2	ob sd st	
	45	60	B3	gb cl st	
S180/E135	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn sd st	
	32	60	B2	ob sd st w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S180/E150	0	6	A0/A1	dk bn lm st	
	6	33	pz	md bn sd st	
	33	60	B2	ob sd st	
S180/E165	0	5	A0/A1	dk bn lm st	
	5	34	pz	md bn sd st	1 creamware
	34	60	B2	ob sd st	
S180/E180	0	3	A0/A1	dk bn sd lm	
	3	36	pz	md bn sd st	1 clear curved glass, 1 brick, 1 coal
	36	60	B2	ob sd st w/pb	1 brown painted whiteware, 1 whiteware base
S180/E195	0	4	A0/A1	dk bn lm st	
	4	34	pz	md bn sd st	1 blue painted pearlware, 1 brick
	34	60	B2	ob sd st	
S180/E210	0	9	A0/A1	dk bn lm st	
	9	40	pz	md bn sd st w/pb&gv	1 hard shell clam
	40	60	B2	ob sd st w/pb&gv	
S180/E225	0	6	A0/A1	dk bn lm st	
	6	28	pz	md bn sd st w/pb&gv	1 hand wrought nail
	28	60	B2	ob sd st w/pb&gv	
S180/E240	0	9	A0/A1	dk bn lm st	
	9	29	A0/A1	dk bn lm st	1 square cut nail
	29	53	B2	ob sd st w/pb&gv	
	53	60	B3	lt bn st sd w/pb&gv	
S180/E255	0	5	A0/A1	dk bn st lm	
	5	20	pz	md bn st sd	
	20	60	B2	ob st sd w/pb&cb	
S180/E270	0	6	A0/A1	dk bn sd lm	
	6	35	pz	md bn st sd	
	35	45	B2	ob st sd w/pb&gv	
S180/E285	0	3	A0/A1	dk bn sd lm	
	3	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	
S180/E300	0	5	A0/A1	dk bn sd lm	
	5	48	pz	md bn st sd	1 brown printed whiteware rim, 1 blue printed whiteware rim, 1 square cut nail
	48	60	B2	ob st sd	
S180/E315	0	3	A0/A1	dk bn st lm	
	3	32	pz	md bn st sd	
	32	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S180/E330	0	3	A0/A1	dk bn st lm	
	3	31	pz	md bn st sd	
	31	60	B2	ob st sd	
S180/E345	0	3	A0/A1	dk bn sd lm	
	3	37	pz	md bn st sd w/pb&gv	
	37	60	B2	ob st sd w/pb&gv	
S180/E360	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn st sd	
	24	60	B2	ob st sd	
S180/E375	0	3	A0/A1	md bn st lm	
	3	23	pz	md bn st sd	
	23	60	B2	ob st sd	
S180/E390	0	5	A0/A1	dk bn sd lm	
	5	24	pz	md bn st sd	
	24	60	B2	ob st sd	
S180/E405	0	3	A0/A1	dk bn sd lm	
	3	36	pz	md bn st sd w/pb&gv	
	36	60	B2	ob st sd w/pb&gv	
S180/E420	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st	
	27	60	B2	ob sd st	
S180/E435	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st w/pb&gv	1 coal
	30	60	B2	ob sd st w/pb&gv	
S180/E450	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd	2 coal
	35	60	B2	ob st sd	
S180/E465	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd	
	31	60	B2	ob st sd	
S180/E480	0	2	A0/A1	dk bn sd lm	
	2	27	pz	md bn sd st	1 aqua bottle glass
	27	56	B2	ob sd st w/pb&gv	
S180/E495	0	6	A0/A1	lt gb st lm	
	6	30	pz	lt gb st sd w/pb,gv&cb	
	30	60	B2	ob st sd w/pb,gv&cb	
S180/E510	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S180/E525	0	6	A0/A1	dk bn st lm	
	6	33	pz	md bn sd st w/pb&gv	1 pearlware
	33	60	B2	ob sd st	
S180/E540	0	6	A0/A1	dk bn st lm	
	6	28	pz	md bn sd st	2 pearlware, 2 coal
	28	60	B2	ob sd st w/pb&gv	
S180/E555	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn st sd	1 creamware
	33	60	B2	ob st sd	
S180/E570	0	4	A0/A1	dk bn sd lm	
	4	27	pz	md bn st sd w/pb&gv	
	27	60	B2	ob st sd	
S180/E585	0	2	A0/A1	dk bn sd lm	
	2	33	pz	md bn st sd	1 aqua window glass, 1 red printed whiteware rim
	33	60	B2	ob sd st w/cb	
S195/E195	0	4	A0/A1	dk bn lm st	
	4	25	pz	md bn sd st w/pb&gv	
	25	60	B2	ob sd st w/pb&gv	
S195/E210	0	5	A0/A1	dk bn lm st	
	5	42	pz	md bn sd st	1 blue painted porcelain rim
	42	60	B2	ob sd st	
S195/E225	0	6	A0/A1	dk bn lm st	
	6	23	pz	md bn sd st	
	23	60	B2	ob sd st	
S195/E240	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn sd st	
	32	65	B2	ob sd st w/pb	
S195/E255	0	5	A0/A1	dk bn sd lm	
	5	37	pz	md bn sd st w/pb&gv	1 blue painted whiteware rim
	37	62	B2	ob sd st w/pb&,gv&cb	
S195/E270	0	3	A0/A1	dk bn st lm	
	3	20	pz	md bn st cl	
	20	55	B2	ob st sd w/cb	
S195/E285	0	4	A0/A1	dk bn st lm	
	4	33	pz	md bn st sd	1 unid earthenware
	33	60	B2	ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S195/E300	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb&gv	
S195/E315	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn st sd w/pb&gv	1 polychrome painted pearlware, 1 blue painted stoneware, 2 brick
	33	60	B2	ob st sd w/pb,gv&cb	
S195/E330	0	3	A0/A1	dk bn sd lm	
	3	32	pz	md bn st sd	1 square cut nail
	32	60	B2	ob st sd	
S195/E345	0	3	A0/A1	dk bn sd lm	
	3	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb&gv	
S195/E360	0	4	A0/A1	dk bn st lm	
	4	36	pz	md bn st sd	
	36	60	B2	ob st cl	
S195/E390	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn st sd	
	36	60	B2	ob sd st	
S195/E405	0	3	A0/A1	dk bn sd lm	
	3	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	
S195/E420	0	4	A0/A1	dk bn st lm	
	4	27	pz	md bn sd st w/pb&gv	1 recent brown bottle glass, 1 coal
	27	60	B2	ob sd st	
S195/E435	0	5	A0/A1	dk bn st lm	
	5	25	pz	md bn sd st w/pb&gv	1 aqua flat glass, 1 clear curved glass, 1 blue painted salt glazed stoneware, 1 square cut nail, 2 coal
	25	60	B2	ob sd st w/pb&gv	
S195/E450	0	3	A0/A1	dk bn sd lm	
	3	32	pz	md bn st sd w/pb&gv	1 blue painted pearlware rim
	32	60	B2	ob st sd w/pb&gv	
S195/E465	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn sd st w/pb&gv	1 dark green bottle glass
	33	60	B2	ob sd st w/pb&gv	
S195/E480	0	7	A0/A1	dk bn st lm	
	7	31	pz	md bn sd st w/pb&gv	1 creamware, 1 square cut nail, 1 hard shell clam
	31	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S195/E495	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb&gv	
S195/E510	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn st sd w/pb&gv	2 whiteware
	29	60	B2	ob st sd w/pb&gv	
S195/E525	0	5	A0/A1	dk bn st lm	
	5	25	pz	md bn sd st w/pb&gv	
	25	60	B2	ob sd st w/pb&gv	
S195/E540	0	6	A0/A1	dk bn st lm	
	6	34	pz	md bn sd st w/pb&gv	1 square cut nail
	34	60	B2	ob sd st w/pb&gv	
S195/E555	0	6	A0/A1	dk bn st lm	
	6	27	pz	lt bn st sd	
	27	60	B2	ob st sd	
S195/E570	0	5	A0/A1	dk bn sd lm	
	5	27	pz	md bn sd st w/gv	1 brick, 1 hard shell clam
	27	60	B2	ob st sd	
S195/E585	0	3	A0/A1	dk bn sd lm	
	3	27	pz	md bn sd st	1 whiteware
	27	59	B2	ob sd st w/cb	
S200/E15	0	5	A0/A1	dk bn st lm	
	5	15	pz	md bn sd st	
	15	36	B2	ob sd st w/gv	
	36	60	B3	dk gb sd cl w/gv	
S200/E30	0	3	A0/A1	dk bn lm sd	
	3	14	pz	md bn sd st	1 clear bottle glass
	14	60	B2	ob sd cl	
S200/E45	0	3	A0/A1	dk bn st lm	
	3	20	pz	md bn sd st w/pb,gv&cb	1 whiteware handle, 2 coal
	20	60	B2	ob sd st w/pb,gv&cb	
S200/E60	0	4	A0/A1	dk bn st lm	
	4	21	pz	md bn sd st w/pb&gv	
	21	36	dist	mo md bn st cl w/pb&gv	1 quartz sec flake, 1 hard shell clam
	36	60	dist	md ob sd st w/pb&gv	
	60	65	B2	ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S200/E75	0	7	A0/A1	dk bn lm sd	
	7	26	pz	md bn sd st	
	26	30	dist	ob st sd	
	30	45	dist	ob st cl	
	45	60	B2	ob sd st	
S200/E90	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st	
	30	48	B2	ob sd st	
	48	60	B3	mo lt bn cl st	
S202.5/E105	0	6	A0/A1	dk bn st lm	
	6	46	pz	md bn sd st w/gv	1 aqua bottle glass, 1 creamware, 1 brick
	46	60	B2	ob cl st	
S202.5/E120	0	5	A0/A1	dk bn lm sd	
	5	31	pz	md bn sd st	2 clear bottle glass
	31	60	B2	ob st cl	
S202.5/E135	0	4	A0/A1	dk bn st lm	
	4	29	pz	md bn sd st	1 blue painted pearlware, 1 whiteware, 1 brick
	29	60	B2	ob sd st	
S202.5/E150	0	5	A0/A1	dk bn st lm	
	5	42	pz	md bn sd st	1 glazed redware, 1 pearlware, 2 brick, 2 coal
	42	60	B2	ob cl st	
S202.5/E165	0	4	A0/A1	dk bn st lm	
	4	39	pz	md bn sd st	1 aqua bottle glass, 2 coal
	39	60	B2	ob sd st	
S210/E180	0	6	A0/A1	dk bn lm sd	
	6	21	pz	md bn sd st	
	21	60	B2	ob st sd	
S210/E195	0	5	A0/A1	dk bn lm st	
	5	26	pz	md bn sd st w/pb,gv&cb	
	26	60	B2	ob sd st w/pb,gv&cb	
S210/E270	0	6	A0/A1	dk bn st lm	
	6	24	pz	md bn sd st w/pb&gv	
	24	60	B2	ob sd st w/pb,gv&cb	
S210/E285	0	7	A0/A1	md bn st lm	
	7	39	pz	md bn st sd	
	39	60	B2	ob st sd	
S210/E300	0	7	A0/A1	dk bn sd lm	
	7	38	pz	md bn st sd w/pb,gv&cb	
	38	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S210/E315	0	7	A0/A1	dk bn sd lm	
	7	45	pz	md bn st sd	1 melted glass
	45	60	B2	ob st sd w/pb&gv	
S210/E330	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S210/E345	0	5	A0/A1	dk bn sd lm	
	5	36	pz	md bn st sd w/pb&gv	
	36	60	B2	ob st sd w/pb&gv	
S210/E360	0	3	A0/A1	dk bn st lm	
	3	25	pz	md bn st sd	1 aqua window glass
	25	60	B2	ob st cl	
S210/E375	0	4	A0/A1	md bn st lm	
	4	29	pz	md bn st sd	
	29	60	B2	ob st sd	
S210/E390	0	3	A0/A1	dk bn sd lm	
	3	43	pz	md bn st sd	2 aqua bottle glass
	43	60	B2	ob st sd	
S210/E405	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn st sd w/pb&gv	1 aqua window glass
	36	60	B2	ob st sd w/pb&gv	
S210/E420	0	4	A0/A1	dk bn st lm	
	4	25	pz	md bn sd st	
	25	60	B2	ob sd st	
S210/E435	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn sd st w/pb&gv	
	23	60	B2	ob sd st w/pb&gv	
S210/E450	0	3	A0/A1	dk bn sd lm	
	3	27	pz	md bn st sd w/pb&gv	
	27	60	B2	ob st sd w/pb&gv	
S210/E465	0	2	A0/A1	dk bn st lm	
	2	34	pz	md bn sd st	1 brown painted pearlware, 1 whiteware
	34	60	B2	ob sd st w/pb	
S210/E480	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn sd st w/pb&gv	1 ball clay pipe stem (5/64")
	32	60	B2	ob sd st w/pb&gv	
S210/E495	0	4	A0/A1	gb st lm	
	4	26	pz	md bn st sd	
	26	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S210/E510	0	4	A0/A1	dk bn sd lm	
	4	40	pz	md bn st sd w/pb&gv	1 unid earthenware rim
	40	60	B2	ob st sd w/pb&gv	
S210/E525	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/pb&gv	
	29	60	B2	ob sd st w/pb&gv	
S210/E540	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn sd st w/pb&gv	1 pearlware, 1 brick
	24	60	B2	ob sd st w/pb&gv	
S210/E555	0	5	A0/A1	dk bn st lm	
	5	20	lens	charcoal	
	20	38	pz	lt bn st sd	
	38	60	B2	ob st sd	
S210/E570	0	4	A0/A1	dk bn sd lm	
	4	27	pz	md bn sd st w/pb&gv	
	27	47	B2	ob st sd	
	47	60	B3	gb st sd	
S210/E585	0	4	A0/A1	dk bn sd lm	
	4	40	pz	md bn sd st	
	40	60	B2	ob sd st w/pb&cb	
S210/E607.5	0	30	pz	md bn sd st w/pb&gv	
	30	58	B2	ob sd st w/pb,gv&cb	
S225/E185	0	5	A0/A1	dk bn st lm	
	5	38	pz	md bn sd st	1 clear bottle glass
	38	60	B2	ob sd st	
S225/E210	0	3	A0/A1	dk bn sd lm	
	3	34	pz	md bn st sd w/pb&gv	1 clear bottle glass
	34	60	B2	ob st sd w/pb&gv	
S225/E225	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	
S225/E240	0	4	A0/A1	dk bn sd lm	
	4	33	pz	md bn st sd w/pb,gv&cb	
	33	60	B2	ob st sd w/pb,gv&cb	
S225/E255	0	5	A0/A1	dk bn st lm	
	5	26	pz	md bn sd st w/pb&gv	
	26	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S225/E270	0	5	A0/A1	dk bn st lm	
	5	47	pz	md bn sd st w/pb&gv	
	47	60	B2	ob sd st w/pb&gv	
S225/E285	0	3	A0/A1	md bn st lm	
	3	44	pz	md bn st sd	
	44	60	B2	ob st sd	
S225/E300	0	5	A0/A1	dk bn ds lm	
	5	46	pz	md bn st sd	
	46	60	B2	ob st sd w/pb&gv	
S225/E315	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn sd st w/pb&gv	1 clear curved glass
	32	60	B2	ob sd st w/pb&gv	
S225/E330	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn sd st	
	29	62	B2	ob sd st w/pb	
S225/E345	0	6	A0/A1	dk bn sd lm	
	6	52	pz	md bn st sd w/pb&gv	
	52	60	B2	ob st sd w/pb&gv	
S225/E360	0	3	A0/A1	dk bn sd lm	
	3	56	pz	md bn st sd	
	56	60	B2	ob st sd w/pb,gv&cb	
S225/E375	0	3	A0/A1	dk bn sd lm	
	3	37	pz	md bn sd st	
	37	60	B2	mo ob sd st	
S225/E390	0	14	pz	md bn sd st	
	14	51	B2	ob sd st	
S225/E405	0	3	A0/A1	md bn st lm	
	3	38	pz	md bn st sd	7 aqua window glass, 1 redware, 6 coal
	38	60	B2	ob st sd	
S225/E420	0	2	A0/A1	dk bn sd lm	
	2	40	pz	md bn sd st	1 melted glass
	40	50	B2	ob sd st w/pb	
S225/E435	0	29	pz	md bn sd st	
	29	47	B2	ob sd st w/pb	
S225/E450	0	3	A0/A1	dk bn sd lm	
	3	26	pz	md bn sd st	2 brick, 2 coal
	26	38	B2	ob st cl	
	38	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S225/E465	0	3	A0/A1	dk bn sd lm	
	3	27	pz	md bn st sd	
	27	60	B2	ob st sd	
S225/E480	0	30	pz	md bn sd st	
	30	50	B2	ob sd st w/pb	
S225/E510	0	4	A0/A1	dk bn sd lm	
	4	41	pz	md bn st sd w/pb&gv	1 brown painted whiteware
	41	60	B2	ob st sd w/pb&gv	
S225/E525	0	6	A0/A1	dk bn st lm	
	6	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob sd st w/pb&gv	
S225/E540	0	3	A0/A1	dk bn st lm	
	3	32	pz	md bn sd st w/pb&gv	1 blue painted pearlware rim, 1 unid earthenware rim
	32	60	B2	ob sd st w/pb,gv&cb	
S225/E555	0	4	A0/A1	dk bn st lm	
	4	7	A2	md bn st sd w/pb,gv&cb	
	7	21	pz	lt bn st sd w/pb,gv&cb	
	21	60	B2	ob st sd w/pb,gv&cb	
S225/E570	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn sd st w/pb&gv	
	34	60	B2	ob cl st	
S225/E585	0	3	A0/A1	dk bn sd lm	
	3	36	pz	md bn sd st	
	36	58	B2	ob sd st w/cb	
S225/E600	0	2	A0/A1	dk bn sd lm	
	2	60	dist	md ob sd st	1 clear bottle glass, 1 whiteware, 1 flowerpot
S225/E615	0	7	A0/A1	md bn st lm	
	7	31	pz	md bn st sd	4 aqua window glass, 5 coal
	31	50	B2	ob st sd	
S240/E185	0	5	A0/A1	dk bn sd lm	
	5	48	pz	md bn sd st	
	48	60	B2	mo ob sd st	
S240/E210	0	3	A0/A1	dk bn sd lm	
	3	33	pz	md bn st sd w/pb&gv	
	33	60	B2	ob st sd w/pb&gv	
S240/E225	0	7	A0/A1	dk bn sd lm	
	7	35	pz	md bn sd st	1 salt glazed stoneware, 1 brick
	35	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S240/E240	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st w/pb&gv	
	27	60	B2	ob sd st w/gv	
S240/E255	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn sd st	
	35	60	B2	ob cl st	
S240/E270	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd w/pb&gv	
	28	60	B2	ob st sd w/pb&gv	
S240/E285	0	4	A0/A1	dk bn st lm	
	4	37	pz	md bn cl st	
	37	60	B2	ob st cl w/pb	
S240/E300	0	5	A0/A1	dk bn sd lm	
	5	40	pz	md bn st sd w/pb&gv	1 clear bottle glass
	40	60	B2	ob st sd w/pb&gv	
S240/E315	0	6	A0/A1	dk bn st lm	
	6	37	pz	md bn sd st w/pb&gv	
	37	60	B2	ob sd st w/pb&gv	1 clear bottle glass
S240/E330	0	4	A0/A1	dk bn st sd	
	4	32	pz	md bn st sd	
	32	60	B2	ob st sd w/pb&gv	
S240/E360	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd w/pb&gv	
	28	60	B2	ob st sd w/pb&gv	
S240/E375	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn st sd w/pb&gv	1 clear bottle glass, 1 coal
	28	60	B2	ob st sd w/pb,gv&cb	
S240/E390	0	4	A0/A1	dk bn sd lm	
	4	38	pz	md bn st sd w/pb&gv	
	38	60	B2	ob st sd w/pb,gv&cb	
S240/E405	0	30	pz	md bn sd st	1 clear flat glass, 1 flowerpot, 2 brick
	30	42	B2	ob sd st w/pb&gv	
S240/E420	0	3	A0/A1	dk bn sd lm	
	3	25	pz	md bn st sd	
	25	60	B2	ob st sd	
S240/E437	0	7	A0/A1	dk bn st lm	
	7	61	dist	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S240/E450	0	3	A0/A1	dk bn sd lm	
	3	38	pz	md bn st sd	3 clear melted glass, 1 coal
	38	42	B2	ob st sd	
S240/E465	0	27	pz	md bn sd st	1 blue painted pearlware, 1 unid earthenware, 1 brick
	27	52	B2	ob sd st	
S240/E480	0	2	A0/A1	dk bn sd lm	
	2	28	pz	md bn sd st w/pb	
	28	46	B2	ob sd st w/pb	
S240/E495	0	4	A0/A1	dk bn sd lm	
	4	24	pz	md bn st sd	2 aqua window glass
	24	60	B2	ob st sd	
S240/E510	0	29	pz	md bn st sd w/pb	
	29	46	B2	ob st sd w/pb&gv	
S240/E525	0	3	A0/A1	dk bn sd lm	
	3	38	pz	md bn st sd w/pb,gv&cb	1 clear curved glass, 1 hand wrought nail
	38	60	B2	ob st sd w/pb,gv&cb	
S240/E540	0	4	A0/A1	dk bn sd lm	
	4	60	dist	ob sd st	
S240/E555	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd	
	26	64	B2	ob st sd	
S240/E570	0	28	pz	md bn st sd w/pb	
	28	54	B2	ob st sd w/pb,gv&cb	
S240/E585	0	27	pz	md bn st sd w/pb,gv&cb	
	27	60	B2	ob st sd w/pb,gv&cb	
S240/E600	0	3	A0/A1	dk bn sd lm	
	3	28	pz	md bn sd st	1 brick
	28	60	B2	ob sd st w/pb	
S240/E615	0	3	A0/A1	dk bn sd lm	
	3	26	pz	md bn sd st	
	26	56	B2	ob st sd	
S255/E90	0	4	A0/A1	dk bn st lm	
	4	37	pz	md bn sd st w/pb&gv	1 aqua flat glass, 1 pearlware, 2 whiteware, 2 brick, 2 wood
	37	60	B2	mo ob cl st w/pb,gv&cb	
S255/E105	0	4	A0/A1	dk bn sd st	
	4	58	pz	md bn sd st	1 creamware
	58	60	B2	mo ob cl st	

STP	SD	ED	Stratum	Soils	Cultural Material
S255/E120	0	7	A0/A1	dk bn sd lm	
	7	60	pz	md bn st sd w/pb&gv	2 whiteware
S255/E135	0	9	A0/A1	dk bn sd lm	
	9	36	pz	md bn st sd	
	36	60	B2	ob st sd	
S255/E165	0	34	pz	md bn sd st w/pb&gv	1 clear curved glass
	34	60	B2	mo ob cl st w/pb&gv	
S255/E185	0	4	A0/A1	dk bn st lm	
	4	44	pz	md bn sd st w/pb&gv	1 hand wrought nail, 2 coal
	44	60	B2	mo ob cl st	
S255/E210	0	3	A0/A1	dk bn sd lm	
	3	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	
S255/E225	0	3	A0/A1	dk bn sd lm	
	3	37	pz	md bn st sd w/pb&gv	
	37	60	B2	ob st sd w/pb&gv	
S255/E240	0	6	A0/A1	dk bn st lm	
	6	26	pz	md bn sd st w/pb&gv	1 porcelain
	26	60	B2	ob sd st w/gv	
S255/E255	0	5	A0/A1	dk bn st lm	
	5	27	pz	dk bn st sd	1 clear flat glass, 1 coal
	27	60	B2	ob st sd w/pb,gv&cb	
S255/E270	0	5	A0/A1	dk bn st lm	
	5	39	pz	md bn sd st	
	39	60	B2	ob sd st	
S255/E285	0	4	A0/A1	md bn st lm	
	4	33	pz	md bn st sd	3 coal
	33	60	B2	ob st sd	
S255/E300	0	6	A0/A1	dk bn sd lm	
	6	29	pz	md bn st sd w/pb&gv	
	29	60	B2	ob st sd w/pb&gv	
S255/E315	0	4	A0/A1	dl bn st lm	
	4	29	pz	md bn sd st w/pb&gv	
	29	60	B2	ob sd st w/pb&gv	
S255/E345	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st w/pb&gv	1 hand wrought nail
	27	60	B2	ob st sd w/pb&gv	1 clear window glass

STP	SD	ED	Stratum	Soils	Cultural Material
S255/E360	0	4	A0/A1	md bn st lm	
	4	27	pz	md bn st sd	
	27	53	B2	ob st sd	
S255/E375	0	3	A0/A1	dk bn sd lm	
	3	29	pz	md bn sd st w/pb	
	29	52	B2	ob sd st w/pb&cb	
S255/E390	0	28	pz	md bn sd st w/pb	
	28	52	B2	ob sd st w/pb&gv	
S255/E405	0	3	A0/A1	dk bn sd lm	
	3	25	pz	md bn st sd	
	25	60	B2	ob st sd	
S255/E420	0	4	A0/A1	dk bn sd lm	
	4	15	pz	md bn st sd	
	15	52	B2	ob st sd	
S255/E435	0	26	pz	md bn sd st	
	26	55	B2	ob sd st	
S255/E450	0	7	A0/A1	md bn st lm	
	7	25	pz	md bn st sd	
	25	52	B2	ob st sd	
S255/E465	0	5	A0/A1	dk bn st sd	
	5	20	pz	md bn st sd	
	20	50	B2	ob st sd w/cb	
S255/E480	0	28	pz	md bn sd st	
	28	50	B2	ob sd st w/pb&gv	
S255/E495	0	4	A0/A1	dk bn sd lm	
	4	24	pz	md bn st sd	
	24	60	B2	ob st sd	
S255/E510	0	5	A0/A1	gb st lm	
	5	34	pz	md bn st sd	
	34	53	B2	ob st sd	
S270/E105	0	3	A0/A1	dk bn sd lm	
	3	55	pz	md bn st sd w/pb,gv&cb	1 aqua glass, 2 creamware, 1 pearlware, 1 blue painted porcelain, 2 coal
	55	60	B2	ob st sd w/pb,gv&cb	
S270/E120	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn sd st	1 quartz biface fragment
	29	60	B2	mo ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S270/E135	0	4	A0/A1	dk bn sd st	
	4	16	pz	md bn sd st	
	16	39	dist	mo ob sd st	1 aqua bottle glass
	39	60	B2	mo ob cl st	
S270/E150	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn sd st	
	29	60	B2	mo ob cl st	
S270/E165	0	5	A0/A1	dk bn sd lm	
	5	24	pz	md bn st sd	
	24	60	B2	mo ob cl st	
S270/E180	0	3	A0/A1	dk bn sd lm	
	3	15	pz	md bn st sd	1 whiteware
	15	60	B2	mo ob cl st	
S270/E210	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd w/pb&gv	
	34	60	B2	ob st sd w/pb&gv	
S270/E225	0	2	A0/A1	dk bn st lm	
	2	26	pz	md bn sd st	
	26	53	B2	ob sd st	
S270/E240	0	6	A0/A1	dk bn st lm	
	6	24	pz	md bn sd st w/pb&gv	
	24	60	B2	ob sd st w/gv	
S270/E255	0	5	A0/A1	dk bn lm sd	
	5	15	pz	md bn sd st	
	15	46	B2	ob sd st	
S270/E270	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st	1 unid earthenware, 2 square cut nails
	29	45	B2	ob sd st	
S270/E285	0	3	A0/A1	dk bn sd lm	
	3	32	pz	md bn st sd w/pb&gv	
	32	60	B2	ob st sd w/pb&gv	
S270/E300	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn sd st	
	32	60	B2	ob sd st	
S270/E330	0	4	A0/A1	dk bn sd lm	
	4	31	pz	md bn st sd w/pb&gv	
	31	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S270/E345	0	4	A0/A1	dk bn st lm	
	4	26	pz	md bn sd st w/pb&gv	
	26	60	B2	pb sd st w/pb&gv	
S270/E360	0	3	A0/A1	dk bn sd lm	
	3	31	pz	md bn st sd w/pb&gv	
	31	60	B2	ob st sd w/pb,gv&cb	
S270/E375	0	2	A0/A1	dk bn sd lm	
	2	33	pz	md bn st sd w/pb,gv&cb	1 aqua flat glass, 1 green bottle glass, 1 clear bottle glass, 1 flowerpot, 1 coal
	33	60	B2	ob st sd	
S270/E390	0	6	A0/A1	dk bn sd lm	
	6	21	pz	md bn sd st w/pb&gv	
	21	60	B2	ob sd st w/pb&gv	
S270/E405	0	3	A0/A1	dk bn sd lm	
	3	19	pz	md bn st sd	
	19	53	B2	ob st sd w/cb	
S270/E420	0	4	A0/A1	dk bn st sd	
	4	17	pz	md bn st sd	
	17	60	B2	ob st sd w/pb	
S270/E435	0	4	A0/A1	dk bn sd lm	
	4	12	pz	md bn st sd	
	12	64	B2	ob st sd	
S270/E450	0	26	pz	md bn sd st	
	26	44	B2	ob sd st w/pb	
S270/E465	0	5	A0/A1	md bn st lm	
	5	19	dist	mo ob st cl	
	19	44	pz	md bn st sd	
	44	50	B2	ob st sd	
S270/E480	0	24	pz	md bn st sd	
	24	60	B2	ob sd st w/pb&gv	
S270/E495	0	4	A0/A1	dk bn sd lm	
	4	17	pz	md bn st sd	
	17	60	B2	ob st sd	
S270/E510	0	6	A0/A1	dk bn st sd	
	6	30	pz	md bn sd st	
	30	50	B2	ob sd st w/pb&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S285/E120	0	4	A0/A1	dk bn st lm	
	4	30	pz	md bn sd st w/pb&gv	
	30	41	B2	ob sd st w/pb&gv	
	41	60	B3	mo gb cl st w/gv	
S285/E135	0	4	A0/A1	dk bn st lm	
	4	19	pz	md bn st sd w/pb&gv	1 aqua flat glass, 1 clear glass rim, 1 creamware, 1 pearlware
	19	57	B2	ob sd st w/pb&gv	
	57	60	B3	mo lt bn st cl w/gv	
S285/E150	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn sd st w/pb,gv&cb	
	23	54	B2	ob st sd w/pb&gv	
	54	60	B3	mo ob sd st w/gv	
S285/E165	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/pb,gv&cb	1 unid earthenware
	29	60	B2	on sd st w/pb,gv&cb	
S285/E180	0	6	A0/A1	dk bn st lm	
	6	32	pz	md bn sd st w/pb,gv&cb	1 pearlware
	32	57	B2	ob sd st w/pb,gv&cb	
	57	60	B3	mo ob cl st w/gv	
S285/E210	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn st sd w/pb&gv	
	36	62	B2	ob st sd w/pb&gv	
S285/E225	0	2	A0/A1	dk bn st lm	
	2	36	pz	md bn st sd	
	36	58	B2	ob st sd w/pb	
S285/E240	0	6	A0/A1	dk bn st lm	
	6	33	pz	md bn sd st w/pb&gv	
	33	60	B2	ob sd st w/pb&gv	
S285/E255	0	5	A0/A1	dk bn st lm	
	5	30	pz	dk bn st sd	
	30	52	B2	ob cl st w/pb,gv&cb	
S285/E270	0	4	A0/A1	dk bn lm sd	
	4	24	pz	md bn sd st	
	24	60	B2	ob st sd	
S285/E285	0	4	A0/A1	dk bn st lm w/pb,gv&cb	
	4	42	pz	md bn sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S285/E315	0	7	A0/A1	dk bn st lm	
	7	32	pz	md bn sd st w/pb&gv	1 square cut nail, 2 coal
	32	60	B2	ob sd st w/pb&gv	1 coal
S285/E330	0	7	A0/A1	dk bn st lm	
	7	31	pz	md bn sd st w/pb&gv	1 coal
	31	60	B2	ob sd st w/pb&gv	
S285/E345	0	8	A0/A1	dk bn sd lm	
	8	28	pz	md bn st sd w/pb,gv&cb	
	28	60	B2	ob st sd w/pb,gv&cb	
S285/E360	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb,gv&cb	1 clear bottle glass, 3 coal
	26	60	B2	ob st sd w/pb,gv&cb	
S285/E375	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb,gv&pb	
	26	60	B2	ob st sd w/pb,gv&cb	
S285/E390	0	4	A0/A1	dk bn st lm	
	4	21	pz	md bn sd st w/pb&gv	
	21	60	B2	ob sd st w/gv	
S285/E405	0	4	A0/A1	dk bn st lm	
	4	21	pz	md bn sd st w/pb&gv	
	21	60	B2	ob sd st w/pb&gv	
S285/E420	0	3	A0/A1	md bn st lm	
	3	21	pz	md bn st sd	
	21	60	B2	ob st sd	
S285/E435	0	28	pz	md bn sd st w/pb&gv	
	28	55	B2	lt yb st sd w/pb&gv	
S299/E375	0	5	A0/A1	dk bn sd lm	
	5	14	pz	md bn sd st	
	14	60	B2	ob st sd	
S300/E135	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd st	
	32	60	B2	mo ob cl st	
S300/E150	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st w/pb&gv	1 green painted pearlware rim, 1 redware, 1 coal
	30	60	B2	ob sd st w/pb&gv	
S300/E165	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/pb,gv&cb	
	29	60	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S300/E180	0	7	A0/A1	dk bn st lm	
	7	29	pz	md bn sd st w/pb,gv&cb	1 creamware, 1 pearlware
	29	60	B2	ob sd st w/pb,gv&cb	
S300/E210	0	5	A0/A1	dk bn st lm	
	5	23	pz	dk bn st sd	
	23	60	B2	ob st sd w/pb,gv&cb	
S300/E225	0	4	A0/A1	dk bn lm sd	
	4	25	pz	md bn st sd	
	25	41	B2	ob st sd w/pb	
S300/E240	0	3	A0/A1	dk bn sd lm	
	3	33	pz	md bn st sd w/pb&gv	
	33	60	B2	ob st sd w/pb&gv	
S300/E255	0	5	A0/A1	dk bn st lm	
	5	34	pz	md bn sd st w/pb&gv	
	34	60	B2	ob sd st w/pb&gv	
S300/E270	0	3	A0/A1	dk bn st lm	
	3	46	pz	md bn sd st w/pb&gv	2 brick, 1 coal
	46	60	B2	ob sd st	
S300/E300	0	6	A0/A1	dk bn st lm	
	6	31	pz	md bn sd st w/pb,gv&cb	1 clear window glass, 1 hand wrought nail
	31	60	B2	ob sd st w/pb,gv&cb	
S300/E315	0	6	A0/A1	dk bn st lm	
	6	30	pz	md bn sd st w/pb&gv	1 aqua window glass, 1 opaque jade curved glass, 1 hand wrought nail, 1 coal
	30	60	B2	ob sd st w/pb&gv	
S300/E330	0	6	A0/A1	dk bn st lm	
	6	30	pz	md bn sd st w/pb,gv&cb	1 flowerpot, 1 coal
	30	60	B2	ob sd st w/pb,gv&cb	
S300/E345	0	6	A0/A1	dk bn st lm	
	6	26	pz	md bn sd st w/pb,gv&cb	1 coal
	26	60	B2	ob sd st w/pb,gv&cb	
S300/E360	0	3	A0/A1	dk bn sd lm	
	3	24	pz	md bn st sd w/pb,gv&cb	1 hand wrought nail, 3 coal
	24	60	B2	ob st sd	
S300/E374	0	6	A0/A1	dk bn sd lm	
	6	24	pz	md bn sd st	
	24	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S300/E375	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb&gv	1 quartz tert flake
	26	60	B2	ob st sd w/gv	
S300/E376	0	4	A0/A1	dk bn st lm	
	4	19	pz	md bn sd st	
	19	60	B2	lt ob sd st	
S300/E390	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn sd st w/gv	
	23	60	B2	ob sd st	
S301/E375	0	4	A0/A1	dk bn st lm	
	4	18	pz	md bn sd st	
	18	60	B2	ob sd st	
S314/E300	0	4	A0/A1	dk bn st lm	
	4	19	pz	md bn sd st	1 iron wire
	19	48	dist	mo md bn sd st w/pb	1 blue painted whiteware, 1 metal buckle, 1 nail, 1 coal
	48	60	B2	ob cl st w/gv	
S315/W75	0	6	A0/A1	dk bn st lm	
	6	43	pz	md bn sd st w/pb,gv&cb	
	43	60	B2	ob sd st w/pb,gv&cb	
S315/E150	0	5	A0/A1	dk bn sd lm	
	5	24	pz	md bn sd st w/pb&gv	
	24	60	B2	ob sd st w/pb&gv	
S315/E165	0	5	A0/A1	dk bn st lm	
	5	26	pz	md bn sd st w/pb&gv	1 clear bottle glass
	26	60	B2	ob sd st w/pb&gv	1 clear etched glass cup
S315/E180	0	7	A0/A1	dk bn st lm	
	7	29	pz	md bn sd st w/pb,gv&cb	1 quartz pri flake, 1 clear bottle glass
	29	60	B2	ob sd st w/pb,gv&cb	
S315/E195	0	12	A0/A1	dk bn st lm	
	12	31	dist	mo md bn cl st	3 brick, 1 coal
	31	60	B2	ob st sd w/pb,gv&cb	
S315/E210	0	2	A0/A1	dk bn st lm	
	2	21	pz	dk bn st sd	
	21	60	B2	ob st sd	
S315/E225	0	3	A0/A1	dk bn lm sd	
	3	32	pz	md bn sd st	2 aqua bottle glass, 1 green painted pearlware
	32	60	B2	ob sd st w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S315/E240	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd w/pb&gv	1 porcelain rim
	34	60	B2	ob st sd w/pb&gv	
S315/E255	0	3	A0/A1	dk bn sd lm	
	3	37	pz	md bn st sd w/pb&gv	
	37	62	B2	ob st sd w/pb&gv	
S315/E285	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob sd st w/pb&gv	1 clear lamp glass, 1 clear bottle glass
S315/E299	0	3	A0/A1	dk bn sd lm	
	3	28	dist	md bn sd st	1 clear bottle glass
	28	49	pz	mo md bn sd st	1 coal
	49	60	B2	ob cl st	
S315/E300	0	6	A0/A1	dk bn st lm	
	6	49	pz	md bn sd st w/pb&gv	1 quartz tert flake, 3 recent clear bottle glass, 2 coal
	49	60	B2	ob sd st w/gv	
S315/E301	0	3	A0/A1	dk bn st lm	
	3	15	pz	md bn sd st	1 clear lamp glass, 2 clear bottle glass, 1 unid flat iron
	15	28	dist	mo md bn sd st w/pb	1 clear flat glass, 2 clear bottle glass
	28	52	pz	md bn sd st w/gv	3 clear bottle glass, 2 brick
	52	60	B2	ob cl st	
S315/E315	0	4	A0/A1	dk bn st lm	
	4	17	pz	md bn sd st w/pb,gv&cb	
	17	60	B2	ob sd st w/pb,gv&cb	
S316/E300	0	2	A0/A1	dk bn st lm	
	2	10	pz	md bn sd st	1 iron wire
	10	24	dist	mo md bn sd st	
	24	58	pz	md bn sd st	1 coal
	58	64	B2	ob cl st	
S320/E510	0	4	A0/A1	dk bn lm st	
	4	23	pz	md gb st sd	
	23	50	B2	yb st sd	
S320/E525	0	5	A0/A1	dk bn sd lm	
	5	34	B1	md bn st sd	
	34	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S330/W75	0	3	A0/A1	dk bn st lm	
	3	27	pz	md bn sd st	1 clear bottle glass, 1 milk glass, 1 porcelain, 1 square cut nail, 1 hard shell clam
	27	54	B2	ob sd st	
S330/W60	0	7	A0/A1	dk bn st lm	
	7	28	pz	md bn sd st w/pb&gv	1 quartz tert flake, 1 ball clay pipe stem (4/64")
	28	60	B2	ob sd st w/gv	1 clear bottle glass
S330/E165	0	6	A0/A1	dk bn st lm	
	6	60	pz	md bn sd st w/pb&gv	1 clear bottle glass, 1 porcelain, 1 nail, 5 coal
S330/E180	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn sd st	6 brick
	34	60	B2	mo ob sd st	
S330/E195	0	3	A0/A1	dk bn sd lm	
	3	32	pz	md bn st sd w/pb&gv	1 clear bottle glass, 1 porcelain
	32	60	B2	ob st sd w/pb&gv	
S330/E210	0	3	A0/A1	dk bn st lm	
	3	34	pz	md bn sd st	2 aqua window glass, 2 clear flat glass, 1 porcelain, 1 flowerpot
	34	60	B2	ob sd st w/pb,gv&cb	
S330/E225	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn st sd w/pb,gv&cb	
	35	60	B2	ob st sd w/pb&gv	
S330/E240	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn st sd w/pb&gv	
	32	60	B2	ob st sd w/pb&gv	
S330/E450	0	4	A0/A1	dk bn sd lm	
	4	12	B1	gb st lm	
	12	52	B2	ob st sd w/pb	
S330/E465	0	4	A0/A1	dk bn sd lm	
	4	9	B1	gb st lm	
	9	60	B2	ob st sd	
S330/E480	0	9	A0/A1	dk bn st lm	
	9	26	B1	md bn sd st w/pb,gv&cb	
	26	60	B2	ob sd st w/pb,gv&cb	
S330/E495	0	5	A0/A1	dk bn sd lm	
	5	9	B1	gb st lm	
	9	45	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S330/E510	0	6	A0/A1	dk bn sd lm	
	6	26	B1	md bn st sd	
	26	60	B2	ob st sd w/pb,gv&cb	
S332/W105	0	9	A0/A1	dk bn st lm	
	9	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob sd st w/pb,gv&cb	
S344/W90	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd w/pb&gv	
	30	60	B2	ob st sd w/pb,gv&cb	
S344/W45	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd	2 flowerpot
	31	60	B2	ob st sd	
S345/W105	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd w/pb,gv&cb	
	34	60	B2	ob st sd w/pb,gv&cb	
S345/W91	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd w/pb&gv	1 stoneware
	29	60	B2	ob st sd w/pb&gv	
S345/W90	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st w/pb,gv&cb	1 quartz pri flake, 1 brick, 1 hard shell clam
	27	60	B2	ob sd st w/pb,gv&cb	
S345/W89	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn st sd w/pb&gv	
	32	60	B2	ob st sd w/pb&gv	
S345/W75	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd w/pb,gv&cb	
	30	60	B2	ob st sd w/pb,gv&cb	
S345/W60	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd	1 hand wrought nail
	31	60	B2	ob st sd w/pb&gv	
S345/W46	0	2	A0/A1	dk bn sd lm	
	2	23	pz	md bn st sd	2 flowerpot, 1 coal
	23	60	B2	ob st sd	
S345/W45	0	3	A0/A1	dk bn st lm	
	3	35	pz	md bn sd st w/pb,gv&cb	1 quartz tert flake, 4 coal
	35	60	B2	ob sd st w/pb&gv	
S345/W44	0	4	A0/A1	dk bn sd lm	
	4	24	pz	md bn st sd	1 quartz tert flake, 1 flowerpot, 1 coal
	24	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S345/E390	0	6	A0/A1	dk bn st lm	
	6	13	B1	md bn sd st	
	13	60	B2	ob sd st	
S345/E405	0	3	A0/A1	dk bn sd lm	
	3	4	B1	md bn sd lm	
	4	32	B2	ob st sd	
S345/E420	0	5	A0/A1	dk bn st lm	
	5	13	B1	md bn sd st	
	13	60	B2	ob sd st	
S345/E435	0	5	A0/A1	dk bn sd lm	
	5	8	B1	gb st lm	
	8	45	B2	ob st sd	
S345/E450	0	5	A0/A1	dk bn sd lm	
	5	10	B1	gb st lm	
	10	60	B2	ob st sd w/cb	
S345/E465	0	5	A0/A1	dk bn sd lm	
	5	17	B1	gb st lm	
	17	60	B2	ob st sd	
S345/E480	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn st sd	
	24	60	B2	ob st sd	
S345/E495	0	6	A0/A1	dk bn st lm	
	6	11	B1	md bn lm st	
	11	60	B2	ob lm st w/pb	
S346/W90	0	5	A0/A1	dk bn sd lm	
	5	27	pz	md bn st sd w/pb&gv	
	27	60	B2	ob st sd w/pb&gv	
S346/W45	0	2	A0/A1	dk bn sd lm	
	2	18	pz	md bn st sd	1 dark green bottle glass, 1 clear flat glass, 1 coal
	18	60	B2	ob st sd	
S360/W90	0	4	A0/A1	dk bn sd lm	
	4	22	pz	md bn st sd	
	22	60	B2	ob st sd	
S360/W75	0	5	A0/A1	dk bn sd lm	
	5	21	pz	md bn st sd w/pb,gv&cb	
	21	60	B2	ob st sd w/pb,gv&cb	
S360/W45	0	4	A0/A1	dk bn sd lm	
	4	31	pz	md bn st sd	
	31	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S360/W30	0	5	A0/A1	dk bn sd lm	
	5	27	pz	md bn st sd w/pb&gv	
	27	60	B2	ob st sd w/pb&gv	
S360/W15	0	3	A0/A1	dk bn sd lm	
	3	53	pz	md bn st sd	
	53	60	B2	ob st sd	
S360/E330	0	5	A0/A1	dk bn st lm	
	5	34	B1	md bn sd st	
	34	60	B2	ob sd st	
S360/E345	0	7	A0/A1	dk bn sd lm	
	7	17	B1	md bn st sd	
	17	30	B2	ob st sd	
	30	60	B3	lt ob st sd	
S360/E360	0	3	A0/A1	dk bn st lm	
	3	16	B1	md bn sd st	
	16	60	B2	ob sd st w/gv	
S360/E375	0	4	A0/A1	dk bn st lm	
	4	14	B1	md bn sd st w/pb&gv	
	14	60	B2	ob sd st w/pb&gv	
S360/E390	0	2	A0/A1	dk bn sd lm	
	2	17	pz	md bn st sd	
	17	40	dist	lt yb cl st	
	40	60	B2	ob st sd	
S360/E405	0	3	A0/A1	dk bn lm st	
	3	10	A2	gb cl st	
	10	50	B2	ob cl st	
S360/E420	0	6	A0/A1	dk bn st lm	
	6	20	B1	md bn sd st	
	20	60	B2	ob sd st w/pb&gv	
S360/E435	0	4	A0/A1	dk bn lm st	
	4	11	A2	gb st sd	
	11	25	pz	md bn st sd	
	25	50	B2	ob st sd	
S360/E450	0	4	A0/A1	dk bn lm st	
	4	20	pz	md bn sd st	
	20	50	B2	ob sd st	
S360/E465	0	5	A0/A1	dk bn st lm	
	5	17	B1	md bn lm st	
	17	60	B2	ob lm st w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S375/W90	0	5	A0/A1	dk bn sd lm	
	5	18	pz	md bn st sd	12 clear bottle glass, 6 brick
	18	52	B2	ob st cl	
S375/W75	0	4	A0/A1	dk bn sd lm	
	4	37	pz	md bn st sd	1 brick
	37	50	B2	mo ob st sd	
S375/W60	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn st sd	1 plastic electrical part
	21	44	B2	ob st sd	
	44	60	B2	ob st sd w/pb&gv	
S375/W45	0	5	A0/A1	dk bn sd ml	
	5	62	B2	md bn st sd	6 flowerpot
S375/E315	0	3	A0/A1	dk bn st lm	
	3	37	pz	md bn st sd	
	37	60	B2	ob st sd	
S375/E330	0	3	A0/A1	dk bn sd lm	
	3	14	B1	md bn st sd	
	14	60	B2	ob st sd	
S375/E345	0	4	A0/A1	dk bn sd lm	
	4	12	B1	md bn sd st	
	12	60	B2	ob st sd	
S375/E360	0	8	A0/A1	dk bn sd lm	
	8	24	B1	md bn sd st	
	24	60	B2	ob sd st	
S375/E375	0	8	A0/A1	dk bn st lm	
	8	38	B1	md bn sd st w/pb,gv&cb	
	38	60	B2	ob sd st w/pb,gv&cb	
S375/E390	0	5	A0/A1	dk bn lm st	
	5	16	pz	md bn cl st	
	16	50	B2	ob cl st	
S375/E405	0	7	A0/A1	dk bn st lm	
	7	31	B1	md bn sd st w/pb&gv	
	31	60	B2	ob sd st w/pb,gv&cb	
S375/E420	0	4	A0/A1	dk bn st lm	
	4	36	B1	md bn lm sd	
	36	60	B2	ob sd st	
S375/E435	0	4	A0/A1	dk bn st lm	
	4	33	pz	md bn st sd	
	33	57	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S375/E450	0	4	A0/A1	dk bn st lm	
	4	15	pz	md bn st sd	
	15	60	B2	ob st sd	
S390/E180	0	2	A0/A1	dk bn st lm	
	2	36	pz	md bn sd st w/pb,gv&cb	1 green bottle glass, 3 clear bottle glass, 1 clear flat glass, 3 aqua flat glass, 1 creamware
	36	53	B2	dk ob sd st w/pb,gv&cb	
S390/E195	0	3	A0/A1	dk bn st lm	
	3	21	pz	md bn st sd	
	21	26	lens	charcoal	4 slag
	26	50	B2	lt bn st sd	
S390/E210	0	5	A0/A1	dk bn st lm	
	5	60	pz	md bn sd st w/pb&gv	
S390/E225	0	3	A0/A1	dk bn sd lm	
	3	47	pz	md bn st sd	1 clear bottle glass, 1 whiteware, 1 whiteware rim, 1 square cut nail, 1 wire nail, 1 coal, 4 slag
	47	60	B2	ob st sd	
S390/E240	0	6	A0/A1	dk bn sd lm	
	6	15	pz	md bn st sd	1 whiteware, 1 hard shell clam, 1 slag
	15	55	B2	ob st sd w/pb&gv	
S390/E255	0	4	A0/A1	dk bn st lm	
	4	29	pz	md bn sd st w/pb&gv	2 clear flat glass
	29	60	B2	ob st sd w/pb,gv&cb	
S390/E270	0	1	A0/A1	dk bn sd lm	
	1	49	pz	md bn st sd	1 clear bottle glass, 1 whiteware rim
	49	60	B2	ob st sd w/pb,gv&cb	
S390/E285	0	8	A0/A1	dk bn sd lm	
	8	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S390/E298	0	4	A0/A1	dk bn st lm	
	4	38	pz	md bn st sd	
	38	55	B2	ob st sd	
S390/E315	0	5	A0/A1	dk bn st lm	
	5	22	B1	md bn sd st w/pb&gv	
	22	60	B2	ob sd st w/pb&gv	
S390/E330	0	8	A0/A1	dk bn sd lm	
	8	22	B1	md bn st sd	
	22	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S390/E345	0	4	A0/A1	dk bn st lm	
	4	22	B1	md bn sd st	
	22	60	B2	md bn sd st w/pb	
S390/E360	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn st sd	
	22	60	B2	ob st sd	
S390/E375	0	4	A0/A1	dk bn st lm	
	4	26	pz	md bn st sd	
	26	60	B2	ob st sd	
S390/E390	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn st sd	
	32	60	B2	ob st cl sd	
S390/E405	0	6	A0/A1	dk bn st lm	
	6	30	B1	md bn sd st	
	30	60	B2	ob sd st	
S390/E420	0	7	A0/A1	dk bn st lm	
	7	17	pz	md bn sd st	
	17	60	B2	ob lm st	
S390/E435	0	7	A0/A1	dk bn st lm	
	7	22	B1	md bn lm sd w/pb&gv	
	22	60	B2	ob sd st w/pb,gv&cb	
S405/E225	0	3	A0/A1	dk bn st lm	
	3	40	pz	md bn sd st w/pb&gv	
	40	60	B3	yb sd st w/pb,gv&cb	
S405/E240	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn sd st w/pb&gv	1 brown bottle glass, 1 clear flat glass, 2 coal
	23	60	B2	ob sd st w/pb&gv	
S405/E285	0	4	A0/A1	dk bn sd lm	
	4	37	B1	md bn st sd	
	37	60	B2	ob sd st w/pb&gv	
S405/E300	0	4	A0/A1	dk bn sd lm	
	4	14	B1	md bn st sd w/pb&gv	
	14	45	B2	dk ob st sd w/pb&gv	
	45	60	B3	lt ob st sd w/pb&gv	
S405/E315	0	4	A0/A1	dk bn lm st	
	4	29	B1	md gb st sd	
	29	50	B2	yb st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S405/E330	0	6	A0/A1	dk bn sd lm	
	6	28	B1	md bn st sd w/pb&gv	
	28	60	B2	ob st sd w/pb,gv&cb	
S405/E345	0	3	A0/A1	dk bn lm st	
	3	24	pz	md gb cl st	
	24	50	B2	yb cl st	
S405/E360	0	5	A0/A1	dk bn st lm	
	5	12	B1	md bn lm st	
	12	60	B2	dk ob lm st	
S405/E375	0	3	A0/A1	dk bn st lm	
	3	17	B1	md bn lm st	
	17	60	B2	ob lm st	
S405/E390	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn st sd	
	34	60	B2	ob st sd	
S405/E405	0	4	A0/A1	dk bn st lm	
	4	30	dist	md bn sd st	1 clear glass jar (jelly), 1 clear curved glass, 3 aqua window glass, 1 porcelain tile, 1 square cut nail, 8 corrugated iron sheet, 1 slag
	30	60	B2	ob sd st	
S405/E420	0	3	A0/A1	dk bn st lm	
	3	18	lens	charcoal	1 bolt, 6 wire nails
	18	38	B2	dk ob sd st	4 aqua bottle glass
	38	60	B3	lt bn st cl	
S405/E435	0	4	A0/A1	dk bn st lm	
	4	7	B1	md bn sd st	
	7	60	B2	ob sd st	
S420/E150	0	9	A0/A1	dk bn st lm	
	9	24	pz	md bn sd st w/pb&gv	
	24	30	B2	ob st sd w/pb&gv	
S420/E165	0	6	A0/A1	dk bn st lm	
	6	32	pz	md bn sd w/pb&gv	
	32	60	B2	ob st sd w/pb,gv&cb	
S420/E180	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st w/pb&gv	
	27	60	B2	ob st sd w/pb&gv	
S420/E195	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st w/pb,gv&cb	1 blue printed whiteware, 1 plastic, 6 coal
	34	60	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S420/E210	0	6	A0/A1	dk bn st lm	
	6	47	pz	md bn sd st w/pb&gv	
	47	60	B2	dk ob sd st w/gv	
S420/E285	0	4	A0/A1	dk bn sd lm	
	4	25	pz	md bn sd st	
	25	60	B2	ob sd st	
S420/E300	0	5	A0/A1	dk bn st lm	
	5	33	B1	md bn lm st	
	33	60	B2	ob sd st w/pb&gv	
S420/E315	0	6	A0/A1	dk bn sd lm	
	6	30	B1	md bn st sd w/pb,gv&cb	
	30	53	B2	ob st sd w/pb,gv&cb	
	53	60	B3	lt bn st sd w/pb,gv&cb	
S420/E330	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn st sd	
	23	60	B2	ob st sd	
S420/E345	0	4	A0/A1	dk bn st lm	
	4	23	B1	md bn lm st	
	23	60	B2	ob lm st	
S420/E360	0	7	A0/A1	dk bn st lm	
	7	19	B1	md bn lm st	
	19	60	B2	ob lm st	
S420/E375	0	4	A0/A1	dk bn st lm	
	4	31	B1	md bn lm st	
	31	60	B2	ob lm st	
S420/E390	0	6	A0/A1	dk bn sd lm	
	6	30	B1	md bn st sd	
	30	60	B2	ob st sd w/pb,gv&cb	
S420/E405	0	7	A0/A1	dk bn sd lm	
	7	29	B1	md bn st sd	
	29	60	B2	ob st sd	
S420/E420	0	6	A0/A1	dk bn sd lm	
	6	32	B1	md bn st sd	
	32	60	B2	ob st sd w/pb&gv	
S435/E90	0	6	A0/A1	dk bn st lm	
	6	60	dist	mo md bn sd st w/pb&gv	
S435/E105	0	4	A0/A1	dk bn sd lm	
	4	53	pz	md bn st sd w/pb&gv	
	53	60	B2	ob st sd w/pb&gv	1 ball clay decorated pipe bowl

STP	SD	ED	Stratum	Soils	Cultural Material
S435/E120	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd	1 porcelain
	28	55	B2	ob sd st	
S435/E135	0	7	A0/A1	md bn sd lm	
	7	30	pz	md bn sd st w/pb,gv&cb	
	30	52	B2	ob sd st w/pb,gv&cb	
S435/E150	0	2	A0/A1	gb st lm	
	2	30	pz	gb st sd	
	30	60	B2	ob st sd	
S435/E165	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd w/pb	
	34	53	B2	ob st sd w/pb	
S435/E180	0	3	A0/A1	dk bn sd lm	
	3	31	pz	md bn st sd w/pb	
	31	45	B2	ob st sd w/pb,gv&cb	
S435/E195	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn sd st w/pb	1 hard shell clam
	28	53	B2	mo ob st sd w/pb	
S435/E210	0	3	A0/A1	dk bn sd lm	
	3	23	pz	md bn sd st w/cb	1 brown bottle glass, 1 clear flat glass
	23	50	B2	ob sd st w/cb	
S435/E225	0	6	A0/A1	dk bn sd lm	
	6	30	pz	md bn st sd w/pb,gv&cb	1 blue printed whiteware, 4 brick
	30	60	B2	ob st sd w/pb,gv&cb	
S435/E300	0	5	A0/A1	dk bn st lm	
	5	27	B1	md bn sd st	
	27	60	B2	ob sd st w/pb	
S435/E315	0	7	A0/A1	dk bn sd lm	
	7	39	B1	md bn st sd	
	39	60	B2	ob st sd w/pb,gv&cb	
S435/E330	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn st sd	1 hard shell clam
	29	60	B2	ob st sd	
S435/E345	0	3	A0/A1	dk bn lm st	
	3	28	pz	md gb st sd	
	28	30	B2	yb st sd	
S435/E360	0	5	A0/A1	dk bn st lm	
	5	22	B1	md bn st lm	
	22	60	B2	ob st lm w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S435/E375	0	5	A0/A1	dk bn st lm	
	5	28	B1	md bn lm st	
	28	60	B2	dk ob lm st w/pb&gv	
S435/E390	0	6	A0/A1	dk bn sd lm	
	6	42	B1	md bn st sd w/pb&gv	
	42	60	B2	ob st sd w/pb,gv&cb	
S435/E405	0	8	A0/A1	dk bn sd lm	
	8	29	B1	md bn st sd	
	29	60	B2	ob st sd w/pb,gv&cb	
S450/E90	0	5	A0/A1	dk bn sd lm	
	5	19	pz	md bn sd st w/pb&gv	
	19	60	B2	ob sd st w/pb&gv	
S450/E105	0	4	A0/A1	dk bn st lm	
	4	24	pz	md bn sd st	
	24	54	B2	mo ob sd st w/pb	
S450/E120	0	4	A0/A1	dk bn st lm	
	4	14	pz	md bn st sd	1 blue printed whiteware
	14	54	dist	mo ob st sd w/pb,gv&cb	
S450/E135	0	2	A0/A1	dk bn sd lm	
	2	27	pz	md bn st sd	
	27	50	B2	mo ob st sd	
S450/E150	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb,gv&cb	
	26	60	B2	ob st sd w/pb,gv&cb	
S450/E165	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn st sd w/pb&gv	
	21	35	B2	ob st sd w/pb,gv&cb	
	35	53	B3	ob sd w/pb&gv	
	53	60	B3	md bn cl st	
S450/E180	0	2	A0/A1	dk bn sd lm	
	2	17	pz	md bn st sd	
	17	60	B2	mo yb sd	
S450/E195	0	4	A0/A1	dk bn st lm	
	4	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S450/E210	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb,gv&cb	2 clear window glass
	30	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S450/E225	0	5	A0/A1	dk bn sd lm	
	5	20	pz	md bn st sd w/pb,gv&cb	1 clear bottle glass
	20	57	B2	ob st sd w/pb,gv&cb	
S450/E240	0	6	A0/A1	dk bn sd lm	
	6	25	pz	md bn st sd w/pb&gv	
	25	55	B2	ob st sd w/pb&gv	
S450/E255	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd w/pb,gv&cb	1 aqua bottle glass, 1 green painted pearlware
	31	48	B2	ob st sd w/pb,gv&cb	
S450/E270	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn cl st w/pb&gv	
	31	50	B2	ob cl st w/gv	
S450/E315	0	13	A0/A1	dk bn lm st	
	13	33	B1	md bn st sd	
	33	50	B2	yb st sd	
S450/E330	0	3	A0/A1	dk bn st lm	
	3	38	pz	md bn st sd	
	38	60	B2	ob st sd	
S450/E345	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn st sd	
	23	60	B2	ob st sd	
S450/E360	0	4	A0/A1	dk bn st lm	
	4	38	B1	md bn st lm	
	38	60	B2	ob st lm w/pb	
S450/E375	0	7	A0/A1	dk bn sd lm	
	7	31	B1	md bn st sd	
	31	60	B2	ob st sd	
S450/E390	0	6	A0/A1	dk bn sd lm	
	6	29	B1	md bn st sd	
	29	60	B2	ob st sd	
S465/E90	0	5	A0/A1	dk bn st lm	
	5	18	pz	md bn sd st w/pb&gv	
	18	35	dist	ob sd st w/pb&gv	
	35	70	dist	mo dk bn sd st w/pb&gv	1 clear bottle glass, 2 ironstone, 1 ironstone rim, 1 blue painted salt glazed stoneware, 1 unid metal wire, 1 nail

STP	SD	ED	Stratum	Soils	Cultural Material
S465/E105	0	1	A0/A1	dk bn sd lm	
	1	17	pz	md bn st sd	1 brick
	17	48	dist	mo ob st sd	
	48	53	bur A	dk bn sd st	
	53	63	dist	md bn st sd	1 whiteware
S465/E120	0	1	A0/A1	dk bn sd lm	
	1	17	pz	md bn st sd	1 aqua bottle glass, 1 coal
	17	60	B2	ob sd st	
S465/E135	0	3	A0/A1	dk bn sd lm	
	3	17	pz	md bn st sd	1 amber bottle glass
	17	54	B2	mo ob st sd	
S465/E150	0	1	A0/A1	dk bn sd lm	
	1	29	pz	md bn st sd	
	29	52	B2	ob st sd	
S465/E165	0	1	A0/A1	dk bn sd lm	
	1	26	pz	md bn st sd	
	26	60	B2	mo yb sd	
S465/E180	0	3	A0/A1	dk bn sd lm	
	3	18	pz	md bn st sd	
	18	45	B2	ob st cl	
S465/E195	0	6	A0/A1	dk bn sd lm	
	6	50	pz	md bn sd st w/gv	1 dark green bottle glass, 1 clear curved glass, 1 iron padlock, 1 mortar
	50	60	B2	ob sd st w/gv	
S465/E210	0	4	A0/A1	dk bn st lm	
	4	20	pz	md bn st sd	
	20	57	B2	ob st sd	
S465/E225	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd w/pb,gv&cb	
	31	60	B2	ob st sd w/pb,gv&cb	
S465/E240	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb&gv	
	26	60	B2	ob st sd w/pb&gv	
S465/E255	0	4	A0/A1	dk bn sd lm	
	4	41	pz	md bn st sd w/pb,gv&cb	
	41	60	B2	ob st sd w/pb&gv	
S465/E270	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn sd st w/gv	1 aqua bottle glass
	29	60	B2	ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S465/E285	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd	1 hard shell clam
	30	54	B2	mo ob cl st	
S465/E330	0	3	A0/A1	dk bn lm st	
	3	60	dist	ob st sd	
S465/E345	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn st sd	
	24	55	B2	ob st sd	
S465/E360	0	8	A0/A1	dk bn sd lm	
	8	32	B1	md bn st sd	
	32	60	B2	ob st sd	
S478/E195	0	5	A0/A1	dk bn sd lm	
	5	50	pz	md bn st sd w/pb,gv&cb	
	50	60	B2	ob st sd w/pb&gv	
S480/E90	0	4	A0/A1	dk bn sd lm	
	4	31	dist	ob st sd w/pb,gv&cb	
	31	60	B3	lt ob st sd	
S480/E105	0	3	A0/A1	dk bn lm st	
	3	11	pz	md bn sd st	1 coal
	11	55	B2	ob sd st	
S480/E120	0	3	A0/A1	dk bn sd lm	
	3	11	pz	md bn st sd	
	11	28	B2	ob st sd w/pb&gv	
	28	60	B3	yb st sd w/gv	1 field stone w/mortar
S480/E135	0	11	A0/A1	gb st lm	
	11	28	pz	ob st sd w/pb,gv&cb	
	28	58	B2	yb sd w/pb,gv&cb	
S480/E150	0	10	A0/A1	gb st lm	
	10	28	pz	gb st sd	
	28	45	B2	ob st sd	
S480/E165	0	11	A0/A1	gb st lm	
	11	21	pz	gb st sd	
	21	45	B2	ob st sd	
S480/E180	0	6	A0/A1	gb st lm	
	6	49	pz	md bn st sd	1 clear bottle glass
	49	62	B2	ob st sd	
S480/E210	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn sd st w/pb,gv&cb	
	25	60	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S480/E225	0	5	A0/A1	dk bn sd lm	
	5	40	pz	md bn st sd w/pb,gv&cb	2 whiteware
	40	60	B2	ob st sd w/pb,gv&cb	
S480/E240	0	4	A0/A1	dk bn sd lm	
	4	31	pz	md bn st sd	
	31	60	B2	ob st sd w/pb&gv	
S480/E255	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn st sd w/pb&gv	1 creamware, 1 whiteware
	28	60	B2	ob st sd w/pb,gv&cb	
S480/E270	0	7	A0/A1	dk bn st lm	
	7	33	pz	md bn sd st w/gv	1 creamware
	33	60	B2	ob cl st w/gv	
S480/E285	0	5	A0/A1	dk bn sd lm	
	5	37	pz	md bn st sd	1 whiteware
	37	54	B2	ob st cl	
S480/E300	0	4	A0/A1	md bn st lm	
	4	18	pz	md bn st sd	
	18	60	B2	ob cl sd w/pb&gv	
S480/E345	0	5	A0/A1	dk bn st lm	
	5	21	pz	md bn st sd	2 clear bottle glass, 1 coal
	21	50	B2	ob st sd	
S494/E90	0	2	A0/A1	dk bn sd lm	
	2	30	pz	md bn st sd	1 iron (barrel?) strap
	30	60	B2	ob st sd w/pb&gv	
S495/E89	0	1	A0/A1	dk bn sd lm	
	1	23	pz	md bn st sd w/pb&gv	1 whiteware rim
	23	60	B2	ob st sd w/pb,gv&cb	
S495/E90	0	2	A0/A1	dk bn sd lm	
	2	25	pz	md bn st sd w/pb,gv&cb	1 quartz tert flake, 1 whiteware
	25	60	B2	ob st sd w/pb,gv&cb	
S495/E91	0	4	A0/A1	dk bn sd lm	
	4	19	pz	md bn st sd w/pb&gv	
	19	60	B2	ob st sd w/pb&gv	
S495/E105	0	4	A0/A1	dk bn sd lm	
	4	33	pz	md bn st sd w/pb,gv&cb	
	33	60	B2	ob st sd w/pb,gv&cb	
S495/E120	0	1	A0/A1	dk bn sd lm	
	1	13	pz	md bn st sd w/pb&gv	
	13	50	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S495/E135	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn st sd w/pb&gv	
	32	60	B2	ob st sd w/pb,gv&cb	
S495/E150	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd w/pb,gv&cb	2 square cut nails
	29	53	B2	ob st sd w/pb,gv&cb	
S495/E165	0	4	A0/A1	dk bn sd lm w/pb,gv&cb	
	4	21	pz	md bn st sd w/pb,gv&cb	
	21	50	B2	ob st sd w/pb,gv&cb	
S495/E180	0	6	A0/A1	dk bn sd lm	
	6	48	pz	md bn st sd w/pb,gv&cb	1 clear bottle glass
	48	60	B2	ob st sd w/pb,gv&cb	
S495/E195	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd w/pb&gv	
	28	60	B2	ob st sd w/pb&gv	
S495/E210	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn st sd w/pb&gv	1 solarized bottle glass, 1 brown painted pearlware rim
	32	60	B2	ob st sd w/pb,gv&cb	
S495/E225	0	5	A0/A1	dk bn st lm w/pb	
	5	27	pz	md bn sd st w/pb,gv&cb	1 whiteware rim
	27	60	B2	ob sd st w/pb,gv&cb	
S495/E240	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn st sd	1 clear window glass, 1 lead glazed slipware
	28	60	B2	ob st sd w/pb&gv	
S495/E255	0	6	A0/A1	dk bn sd lm	
	6	35	pz	md bn st sd w/pb,gv&cb	1 creamware
	35	60	B2	ob st sd w/pb,gv&cb	
S495/E270	0	6	A0/A1	dk bn st lm	
	6	30	pz	md bn sd st w/gv	1 aqua window glass, 1 creamware, 1 brick
	30	60	B2	ob sd st w/pb&gv	
S495/E285	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn st sd	
	21	60	B2	mo ob cl st	
S495/E300	0	5	A0/A1	md bn st lm	
	5	14	pz	md bn st sd	
	14	45	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S495/E315	0	3	A0/A1	dk bn st lm	
	3	21	pz	md bn sd st	
	21	45	B2	ob sd st w/cb	
S496/E90	0	3	A0/A1	dk bn sd lm	
	3	25	pz	md bn st sd w/pb&gv	
	25	60	B2	ob st sd w/pb&gv	1 quartzite core fragment
S510/W225	0	4	A0/A1	dk bn sd lm	
	4	13	pz	md bn st sd	
	13	50	B2	ob st sd w/pb&cb	
S510/W210	0	4	A0/A1	dk bn sd lm	
	4	31	pz	md bn st sd w/pb	3 square cut nails, 9 unid iron metal, 6 asphalt
	31	50	B2	ob cl st	
S510/W195	0	8	A0/A1	dk bn sd lm	
	8	20	pz	md bn st sd w/pb&cb	
	20	50	B2	ob st wd w/pb&cb	
S510/E90	0	4	A0/A1	dk bn lm sd	
	4	16	pz	md bn st sd w/pb&gv	
	16	39	dist	mo dk gb st sd w/pb&gv	
	39	60	B2	ob st sd w/pb&gv	
S510/E105	0	3	A0/A1	dk bn sd lm	
	3	9	pz	md bn st sd	
	9	50	B2	ob cl st w/pb&gv	
S510/E120	0	3	A0/A1	md bn sd lm	
	3	30	pz	md bn sd st w/pb,gv&cb	1 blue painted pearlware
	30	50	B2	ob sd st w/pb,gv&cb	
S510/E135	0	3	A0/A1	md bn sd lm	
	3	30	pz	md bn sd st w/pb,gv&cb	1 hand wrought spike
	30	50	B2	ob sd st w/pb,gv&cb	
S510/E150	0	3	A0/A1	md bn sd lm	
	3	25	pz	md bn sd st w/pb,gv&cb	
	25	60	B2	ob sd st w/pb,gv&cb	
S510/E165	0	5	A0/A1	md bn sd lm	
	5	30	pz	md bn sd st w/pb	
	30	50	B2	yb sd st w/pb&gv	
S510/E180	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn st sd w/pb,gv&cb	
	38	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S510/E195	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn st sd w/pb,gv&cb	
	38	60	B2	ob st sd w/pb,gv&cb	
S510/E210	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn st sd w/pb,gv&cb	
	27	60	B2	ob st sd w/pb,gv&cb	
S510/E225	0	2	A0/A1	dk bn sd lm	
	2	26	pz	md bn st sd w/pb,gv&cb	1 aqua bottle glass, 1 salt glazed stoneware
	26	60	B2	ob st sd w/pb,gv&cb	
S510/E240	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd w/pb,gv&cb	
	31	60	B2	ob st sd w/pb,gv&cb	
S510/E255	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn st sd w/pb,gv&cb	1 solarized bottle glass
	36	50	B2	ob st sd w/pb,gv&cb	
S510/E270	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st w/gv	1 creamware, 1 soft shell clam
	30	60	B2	ob sd st w/pb&gv	
S510/E285	0	4	A0/A1	dk bn sd lm	
	4	25	pz	md bn st sd	1 whiteware
	25	50	B2	ob sd st	
S510/E300	0	4	A0/A1	md bn st lm	
	4	29	pz	md bn st sd	1 metal spoon
	29	50	B2	ob cl st	
S510/E315	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn st sd w/pb	
	24	50	B2	ob st sd w/cb	
S510/E330	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn sd st	
	31	50	B2	ob st sd	
S525/W240	0	4	A0/A1	dk bn sd lm	
	4	33	pz	md bn sd st	
	33	60	B2	ob st sd w/gv	
S525/W225	0	4	A0/A1	dk bn sd lm	
	4	14	pz	md bn sd st w/pb&gv	
	14	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S525/W210	0	3	A0/A1	dk bn sd lm	
	3	9	pz	md bn st sd	1 glazed stoneware drain pipe
	9	37	dist	mo md bn st cl w/pb	
	37	50	B2	ob st cl	
S525/W195	0	2	A0/A1	dk bn sd lm	
	2	22	pz	md bn st sd	2 green recent bottle glass, 3 asphalt
	22	34	dist	lt bn st cl	
	34	50	B2	ob st cl	
S525/E90	0	3	A0/A1	dk bn sd lm	
	3	38	pz	md bn st sd w/pb&gv	
	38	54	dist	vy dk bn sd st	
	54	60	B2	lt ob st sd	
S525/E105	0	5	A0/A1	dk bn st lm	
	5	30	B2	ob st sd w/pb&gv	
S525/E120	0	4	A0/A1	dk bn sd lm	
	4	45	dist	md bn st sd w/pb,gv&cb	
S525/E135	0	3	A0/A1	dk bn st lm	
	3	55	dist	md bn st sd w/pb	
S525/E150	0	4	A0/A1	dk bn sd lm	
	4	19	pz	md bn st sd	
	19	55	B3	mo yb st sd w/pb	
S525/E165	0	4	A0/A1	dk bn sd lm	
	4	50	dist	md ob st sd	2 brown bottle glass
S525/E180	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn sd st w/pb,gv&cb	
	31	60	B2	ob sd st w/pb&gv	
S525/E195	0	5	A0/A1	dk bn sd lm	
	5	27	pz	md bn st sd w/pb,gv&cb	
	27	39	B2	ob st sd w/pb&gv	
	39	60	B3	yb st sd w/pb&gv	
S525/E210	0	6	A0/A1	dk bn sd lm	
	6	32	pz	md bn st sd w/pb,gv&cb	1 hand wrought nail
	32	60	B2	ob st sd w/pb,gv&cb	
S525/E225	0	6	A0/A1	md bn st lm	
	6	26	pz	md bn st sd	1 salt glazed stoneware
	26	55	B2	ob st sd	
S525/E240	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn st sd w/pb,gv&cb	
	32	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S525/E255	0	3	A0/A1	dk bn sd lm	
	3	45	pz	md bn st sd w/pb,gv&cb	1 blue painted pearlware, 1 brick, 1 hand wrought nail
	45	47	B2	ob st sd w/pb,gv&cb	
S525/E270	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st w/gv	1 creamware
	28	60	B2	ob sd st w/pb,gv&cb	
S525/E285	0	4	A0/A1	dk bn sd lm	
	4	37	pz	md bn cl st	
	27	48	B2	ob st cl	
S525/E300	0	4	A0/A1	md bn st lm	
	4	31	pz	md bn st sd	
	31	50	B2	ob st sd	
S525/E315	0	3	A0/A1	dk bn st lm	
	3	25	pz	md bn sd st	
	25	50	B2	ob sd st	
S540/W240	0	3	A0/A1	dk bn sd lm	
	3	15	pz	md bn st sd	
	15	50	B2	md ob cl st	
S540/W225	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn st sd w/pb,gv&cb	
	28	50	B2	ob st sd w/pb,gv&cb	
S540/W210	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd w/pb,gv&cb	2 unid iron metal
	35	60	B2	ob st sd w/pb,gv&cb	
S540/W195	0	6	A0/A1	dk bn sd lm	
	6	60	pz	md bn st sd w/pb,gv&cb	
S540/E90	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd w/pb,gv&cb	
	34	60	B2	ob st sd w/pb,gv&cb	
S540/E105	0	3	A0/A1	dk bn st lm	
	3	17	pz	md bn sd st	
	17	50	B2	mo yb sd st w/pb&gv	
S540/E120	0	5	A0/A1	dk bn sd lm	
	5	23	pz	md bn st sd w/pb,gv&cb	
	23	60	B2	ob st sd w/pb,gv&cb	
S540/E135	0	7	A0/A1	dk bn sd lm w/pb&gv	
	7	17	pz	md bn st sd w/pb,gv&cb	
	17	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S540/E150	0	6	A0/A1	dk bn sd lm w/pb,gv&cb	
	6	26	pz	md bn st sd w/pb,gv&cb	
	26	60	B2	ob st sd w/pb,gv&cb	
S540/E165	0	5	A0/A1	dk bn sd lm	
	5	15	pz	md bn st sd w/gv	
	15	65	B2	ob st sd w/pb,gv&cb	
S540/E180	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn sd st w/pb&gv	
	21	60	B2	ob sd st w/pb&gv	
S540/E195	0	5	A0/A1	dk bn sd lm	
	5	22	pz	md bn sd st w/pb&gv	
	22	60	B2	ob st sd w/pb&gv	
S540/E210	0	7	A0/A1	dk bn sd lm	
	7	35	pz	md bn st sd w/pb,gv&cb	1 pearlware rim
	35	60	B2	ob st sd w/pb,gv&cb	
S540/E225	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd w/pb,gv&cb	
	34	60	B2	ob st sd w/pb,gv&cb	
S540/E240	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn st sd w/pb,gv&cb	1 clear flat glass, 1 polychrome painted pearlware
	28	60	B2	ob st sd w/pb,gv&cb	
S540/E255	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st w/pb,gv&cb	2 clear curved glass
	28	60	B2	ob sd st w/pb&gv	1 brick
S540/E270	0	4	A0/A1	md bn st lm	
	4	29	pz	md bn st sd	
	29	52	B2	ob st sd	
S540/E285	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn sd st w/pb&cb	
	31	50	B2	ob cl st w/cb	
S540/E300	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn sd st	
	31	55	B2	ob sd st	
S555/W240	0	6	A0/A1	dk bn sd lm	
	6	42	pz	md bn st sd w/pb,gv&cb	
	42	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S555/W225	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb,gv&cb	1 pearlware
	30	60	B2	ob st sd w/pb	
S555/W210	0	7	A0/A1	dk bn lm st	
	7	28	pz	md bn st sd	
	28	50	B2	ob st sd	
S555/W195	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd w/pb,gv&cb	1 wire nail
	34	60	B2	ob st sd w/pb,gv&cb	
S555/W180	0	3	A0/A1	dk bn sd lm	
	3	16	pz	md bn sd st	4 concrete
	16	51	dist	mo ob st sd w/pb&gv	
S555/E90	0	4	A0/A1	dk bn st lm	
	4	10	pz	md bn sd st w/gv	
	10	45	dist	mo ob st sd w/pb&gv	
	45	60	dist	mo dk bn st sd w/pb&gv	
S555/E105	0	6	A0/A1	dk bn sd st	
	6	24	pz	md bn sd st w/pb,gv&cb	
	24	60	B2	ob st sd w/pb,gv&cb	
S555/E120	0	6	A0/A1	md bn st lm	
	6	38	pz	md bn st sd	
	38	60	B2	ob cl sd w/pb&gv	
S555/E135	0	4	A0/A1	md bn st lm	
	4	27	pz	md bn st sd	
	27	53	B2	ob st sd w/pb,gv&cb	
S555/E150	0	5	A0/A1	md bn st lm	
	5	28	pz	lt bn st sd	
	28	60	B2	ob st sd	
S555/E165	0	5	A0/A1	md bn st lm	
	5	14	pz	md bn st sd	
	14	60	B2	ob st sd w/pb&gv	
S555/E180	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn sd st w/pb&gv	
	28	60	B2	ob st sd w/pb&gv	
S555/E195	0	7	A0/A1	dk bn sd lm	
	7	24	pz	md bn sd st w/pb&gv	1 aqua window glass, 1 square cut nail
	24	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S555/E210	0	3	A0/A1	dk bn sd lm	
	3	36	pz	md bn sd st w/pb,gv&cb	
	36	50	B2	ob sd st w/pb,gv&cb	
S555/E225	0	6	A0/A1	dk bn sd lm	
	6	38	pz	md bn st sd w/pb,gv&cb	1 green painted pearlware rim
	38	60	B2	ob st sd w/pb,gv&cb	
S555/E240	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb,gv&cb	
	26	60	B2	ob st sd w/pb,gv&cb	
S555/E255	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn sd st	1 brick
	30	45	B2	ob sd st w/cb	
S555/E270	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn sd st w/pb,gv&cb	
	22	50	B2	ob sd st w/pb,gv&cb	
S555/E285	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn sd st	
	29	50	B2	ob sd st w/pb	
S565/W420	0	4	A0/A1	dk bn st lm	
	4	19	pz	md bn sd st	
	19	40	B2	ob cl st	1 amber bottle glass, 1 Albany slip soft glazed stoneware
S565/W410	0	9	A0/A1	dk bn sd lm	
	9	28	dist	md bn sd cl	
	28	60	B2	ob st cl	
S565/W355	0	6	A0/A1	dk bn lm st	
	6	53	dist	ob st sd w/pb,gv&cb	1 clear bottle glass, 1 hand wrought nail
S565/W340	0	4	A0/A1	dk bn sd lm	
	4	60	dist	md bn sd st	
S570/W240	0	4	A0/A1	dk bn lm st	
	4	50	dist	md bn cl st	1 ball clay pipe stem (5/64")
S570/W225	0	5	A0/A1	dk bn sd lm	
	5	36	pz	md bn st sd	
	36	60	B2	ob st sd	
S570/W210	0	3	A0/A1	dk bn sd lm	
	3	28	pz	md bn st sd w/cb	
	28	45	B2	dk ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S570/W195	0	4	A0/A1	dk bn sd lm	
	4	17	pz	md bn sd st w/pb,gv&cb	
	17	50	dist	ob sd st w/pb,gv&cb	
S570/W180	0	4	A0/A1	dk bn sd lm	
	4	17	pz	md bn st sd	
	17	32	B2	ob st sd w/cb	
S570/E90	0	4	A0/A1	dk bn sd lm	
	4	30	pz	mo md bn sd st w/pb,gv&cb	
	30	60	B2	ob st sd w/pb,gv&cb	
S570/E105	0	4	A0/A1	dk bn sd lm	
	4	19	pz	md bn st sd	
	19	45	B2	ob st sd w/pb&gv	
	45	60	B3	ob cl st w/gv	
S570/E120	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb,gv&cb	
	30	37	B2	ob st sd w/pb,gv&cb	
S570/E135	0	6	A0/A1	dk bn sd lm	
	6	30	pz	md bn st sd w/pb,gv&cb	
	30	42	B2	ob st sd w/pb,gv&cb	
S570/E150	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd w/pb&gv	
	31	60	B2	ob st sd w/pb,gv&cb	
S570/E165	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd w/pb,gv&cb	
	35	60	B2	ob st sd w/pb,gv&cb	
S570/E180	0	7	A0/A1	dk bn sd lm	
	7	14	pz	md bn sd st w/pb&gv	
	14	60	B2	ob sd st w/pb&gv	
S570/E195	0	6	A0/A1	dk bn sd lm	
	6	32	pz	md bn sd st w/pb&gv	
	32	60	B2	ob sd st w/pb&gv	
S570/E210	0	2	A0/A1	dk bn st lm	
	2	22	pz	md bn sd st w/pb,gv&cb	
	22	50	B2	ob sd st w/pb,gv&cb	
S570/E225	0	6	A0/A1	dk bn sd lm	
	6	32	pz	md bn st sd w/pb,gv&cb	
	32	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S570/E240	0	6	A0/A1	dk bn sd lm	
	6	31	pz	md bn st sd w/pb,gv&cb	
	31	60	B2	ob st sd w/pb,gv&cb	
S570/E255	0	4	A0/A1	dk bn lm st	
	4	43	pz	md bn st sd	
	43	50	B2	ob st sd	
S570/E270	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn cl st	1 brick
	36	50	B2	ob st cl	
S580/W610	0	4	A0/A1	dk bn st lm	
	4	20	pz	md bn sd st w/pb&gv	
	20	33	B2	ob st sd w/pb,gv&cb	
	33	60	B3	lt ob st sd w/pb&gv	
S580/W430	0	1	A0/A1	dk bn lm st	
	1	17	pz	md bn sd st w/pb,gv&cb	
	17	40	B2	mo yb cl st	
S580/W420	0	3	A0/A1	dk bn sd lm	
	3	18	pz	md bn sd st w/pb&gv	
	18	60	B2	ob st sd w/pb&gv	
S580/W395	0	9	A0/A1	dk bn cl lm	
	9	52	dist	ob st cl w/pb,gv&cb	
S580/W385	0	6	A0/A1	dk bn sd lm	
	6	60	dist	ob st sd w/pb,gv&cb	
S585/W255	0	3	A0/A1	dk bn st lm	
	3	27	pz	md bn sd st w/pb&gv	
	27	60	B2	ob sd st w/pb&gv	
S585/W240	0	4	A0/A1	dk bn lm st	
	4	17	pz	md bn cl st	
	17	50	B2	mo ob cl st	
S585/W225	0	4	A0/A1	md bn lm sd w/gv	
	4	60	B2	lt ob st sd w/pb&gv	
S585/W210	0	6	A0/A1	dk bn sd lm	
	6	15	pz	md bn sd st w/pb,gv&cb	
	15	60	B2	ob sd st w/pb,gv&cb	
S585/W195	0	8	A0/A1	dk bn sd lm	
	8	60	pz	md bn st sd w/pb,gv&cb	1 brown bottle glass
S585/W180	0	6	A0/A1	dk bn lm sd	
	6	20	pz	md bn sd st w/pb,gv&cb	
	20	50	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S585/E75	0	3	A0/A1	dk bn st sd	
	3	28	pz	md bn st sd	1 soft shell clam
	28	60	B2	mo ob st sd w/pb,gv&cb	
S585/E90	0	3	A0/A1	dk bn sd lm	
	3	23	pz	md bn st sd w/pb&gv	
	23	60	B2	ob st sd w/pb&gv	
S585/E105	0	3	A0/A1	dk bn sd lm	
	3	26	pz	md bn st sd w/pb&gv	
	26	60	B2	ob st sd w/pb&gv	
S585/E120	0	5	A0/A1	dk bn sd lm	
	5	22	pz	md bn st sd w/pb,gv&cb	1 whiteware, 1 hand wrought nail, 3 charcoal
	22	60	B2	ob st sd w/pb,gv&cb	
S585/E135	0	5	A0/A1	dk bn sd lm	
	5	15	pz	md bn st sd w/pb,gv&cb	
	15	50	dist	mo ob st sd w/pb,gv&cb	
	50	60	B2	ob st sd w/pb&gv	
S585/E150	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd w/pb,gv&cb	1 aqua bottle glass
	34	54	B2	ob st sd w/pb,gv&cb	
	54	60	B3	lt bn st sd w/gv	
S585/E165	0	6	A0/A1	dk bn sd lm	
	6	19	pz	md bn st sd w/pb,gv&cb	
	19	60	B2	ob st sd w/pb,gv&cb	
S585/E180	0	6	A0/A1	dk bn sd lm	
	6	24	pz	md bn st sd w/pb,gv&cb	
	24	50	B2	ob st sd w/pb,gv&cb	
S585/E195	0	5	A0/A1	dk bn sd lm w/pb&gv	
	5	20	pz	md bn sd st w/pb,gv&cb	1 clear window glass
	20	50	B2	ob sd st w/pb,gv&cb	
S585/E210	0	3	A0/A1	dk bn sd lm	
	3	19	pz	md bn st sd w/pb,gv&cb	
	19	60	B2	ob st sd w/pb,gv&cb	
S585/E225	0	7	A0/A1	dk bn sd lm	
	7	23	pz	md bn sd st w/pb&gv	
	23	60	B2	ob sd st w/pb&gv	
S585/E240	0	4	A0/A1	dk bn sd lm	
	4	38	pz	md bn st sd	
	38	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S585/E255	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn sd st	
	32	60	B2	ob sd st w/pb&gv	
S595/W595	0	3	A0/A1	dk bn st lm	
	3	20	dist	md bn cl st w/pb,gv&cb	1 hard shell clam
	20	30	dist	lt bn cl st w/pb,gv&cb	1 recent green bottle glass, 2 plastic
S595/W430	0	3	A0/A1	dk bn st lm	
	3	12	pz	md bn sd st	
	12	60	B2	ob cl st w/pb&gv	
S595/W400	0	8	A0/A1	md bn sd lm	
	8	60	dist	ob st cl w/pb,gv&cb	
S595/W385	0	10	A0/A1	dk bn sd lm	
	10	54	dist	ob st cl w/pb,gv&cb	
S600/W285	0	5	A0/A1	dk bn sd lm	
	5	26	pz	md bn st sd	
	26	55	B2	ob st sd	
S600/W270	0	3	A0/A1	dk bn sd lm	
	3	10	pz	md bn sd st	
	10	50	B2	lt ob cl st	
S600/W255	0	7	A0/A1	dk bn sd lm	
	7	25	pz	md bn sd st w/pb&gv	
	25	60	B2	ob sd st w/pb&gv	
S600/W240	0	5	A0/A1	dk bn sd lm	
	5	20	pz	md bn sd st w/gv	
	20	60	B2	ob sd st w/gv	
S600/W210	0	4	A0/A1	dk bn sd lm	
	4	16	pz	md bn st sd w/pb&gv	
	16	60	B2	ob st sd	
S600/W195	0	6	A0/A1	dk bn sd lm	
	6	36	pz	md bn sd st w/pb&gv	1 square cut nail, 1 spark plug wire
	36	60	B2	ob sd st w/pb&gv	
S600/W180	0	3	A0/A1	dk bn sd lm	
	3	25	pz	md bn sd st w/pb&cb	
	25	45	B2	dk ob ds st w/pb,gv&cb	
S600/W65	0	5	A0/A1	dk bn sd lm	
	5	50	dist	md bn sd st	
S600/W30	0	7	A0/A1	dk bn sd lm	
	7	30	pz	md bn sd st w/pb&gv	
	30	60	dist	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S600/E90	0	5	A0/A1	dk bn sd lm	
	5	26	pz	md bn st sd w/pb,gv&cb	
	26	60	B2	ob st sd w/pb&gv	
S600/E105	0	3	A0/A1	dk bn st lm	
	3	15	pz	md bn sd st	
	15	60	B2	ob sd st w/pb,gv&cb	
S600/E120	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb&gv	1 aqua window glass
	30	60	B2	ob st sd w/pb&gv	
S600/E135	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd w/pb,gv&cb	
	30	60	B2	ob st sd w/pb,gv&cb	
S600/E150	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb,gv&cb	1 coal
	26	60	B2	ob st sd w/pb,gv&cb	
S600/E165	0	6	A0/A1	dk bn sd lm	
	6	40	pz	md bn st sd w/pb,gv&cb	1 aqua window glass
	40	60	B2	ob st sd w/pb,gv&cb	
S600/E180	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn st sd w/pb,gv&cb	1 clear bottle glass
	35	60	B2	ob st sd w/pb,gv&cb	
S600/E195	0	5	A0/A1	dk bn sd lm	
	5	23	pz	md bn st sd w/pb,gv&cb	
	23	60	B2	ob st sd w/pb,gv&cb	
S600/E210	0	3	A0/A1	dk bn sd lm	
	3	44	pz	md bn st sd w/pb,gv&cb	1 aqua window glass
	44	53	B2	ob st sd w/pb,gv&cb	
S600/E225	0	4	A0/A1	dk bn sd lm	
	4	35	dist	mo md bn sd st	2 brick
	35	60	B2	ob sd st w/pb&gv	
S600/E240	0	4	A0/A1	dk bn sd lm	
	4	25	pz	md bn st sd	
	25	50	B2	ob st sd w/pb,gv&cb	
	50	60	B3	dk ob st sd w/pb&gv	
S600/E255	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn st sd w/pb,gv&cb	
	32	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S610/W580	0	3	A0/A1	dk bn st lm	
	3	55	dist	md bn sd st w/pb&gv	1 brown bottle glass, 1 brick, 3 wood, 3 asphalt, 1 concrete
S610/W565	0	4	A0/A1	dk bn sd lm	
	4	15	dist	md bn st sd w/pb,gv&cb	
	15	40	B2	ob st sd w/pb&gv	3 asphalt
S610/W415	0	2	A0/A1	dk bn st lm	
	2	14	pz	md bn st sd	
	14	40	dist	ob cl st	
S610/W400	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn sd st w/pb&gv	
	21	50	B2	ob cl st w/pb&gv	
	50	60	B3	lt bn st sd	
S614/W285	0	2	A0/A1	dk bn sd lm	1 clear bottle glass
	2	35	pz	md bn sd st	1 aqua bottle glass, 1 amber bottle glass
	35	60	B2	ob sd st w/pb	
S615/W286	0	2	A0/A1	dk bn sd lm	
	2	34	pz	md bn sd st w/pb	1 quartz b/s
	34	60	B2	ob sd st w/pb&cb	
S615/W285	0	2	A0/A1	dk bn sd lm	
	2	30	pz	md bn sd st w/pb	1 quartz projectile point tip
	30	60	B2	dk ob sd st w/pb	
S615/W284	0	3	A0/A1	dk bn sd lm	
	3	32	pz	md bn sd st w/pb	1 pearlware
	32	60	B2	ob sd st w/pb	
S615/W255	0	5	A0/A1	dk bn sd lm	
	5	26	pz	md bn sd st w/gv	
	26	60	B2	ob sd st w/gv	
S615/W240	0	4	A0/A1	md bn st lm	
	4	29	pz	md bn st sd	
	29	50	B2	ob st sd	
S615/W210	0	4	A0/A1	dk bn sd lm	
	4	27	pz	md bn st sd w/pb&gv	
	27	48	B2	ob st sd	
S615/W195	0	5	A0/A1	md bn sd lm	
	5	22	pz	md bn st sd	
	22	50	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S615/W165	0	4	A0/A1	dk bn sd lm	
	4	17	pz	md bn sd st w/pb,gv&cb	
	17	60	B2	ob st sd w/pb,gv&cb	
S615/W60	0	6	A0/A1	dk bn sd lm	
	6	60	pz	md bn st sd w/pb&gv	
S615/W45	0	6	A0/A1	dk bn sd lm	
	6	60	pz	md bn st sd w/pb,gv&cb	2 wire nails
S615/W30	0	6	A0/A1	dk bn sd lm	
	6	30	pz	md bn sd st w/pb,gv&cb	
	30	60	B2	ob sd st w/pb,gv&cb	
S615/W15	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S615/E90	0	6	A0/A1	dk bn st sd	
	6	23	pz	md bn st sd w/pb	
	23	53	B2	ob sd st w/pb,gv&cb	
S615/E105	0	3	A0/A1	dk bn sd lm	
	3	60	pz	mo md bn st sd	
S615/E120	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd w/pb	
	30	50	B2	ob st sd w/pb,gv&cb	
S615/E135	0	4	A0/A1	dk bn sd lm	
	4	41	pz	md bn sd st w/pb	
	41	50	B2	ob sd st w/pb,gv&cb	
S615/E150	0	7	A0/A1	dk bn sd lm	
	7	60	dist	md bn st sd w/pb,gv&cb	
S615/E165	0	6	A0/A1	dk bn sd lm	
	6	24	pz	md bn st sd w/pb,gv&cb	
	24	50	B2	mo ob cl st w/pb,gv&cb	
S615/E180	0	8	A0/A1	dk bn sd lm	
	8	36	pz	md bn st sd w/pb	1 clear bottle glass
	36	60	B2	ob st cl w/pb,gv&cb	
S615/E195	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S615/E210	0	7	A0/A1	dk bn st lm	
	7	14	pz	md bn cl st w/pb,gv&cb	
	14	38	B2	ob cl st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S615/E225	0	6	A0/A1	dk bn sd lm	
	6	32	pz	md bn st sd	
	32	60	B2	ob st sd w/pb&sd	
S616/W285	0	4	A0/A1	dk bn sd lm	
	4	36	pz	md bn sd st w/pb	1 aqua mason jar lid, 1 square cut nail
	36	60	B2	ob sd st w/pb	
S625/W565	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn st sd	
	23	57	dist	mo ob st sd	
S625/W550	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn st sd	
	35	60	B2	ob st sd	
S625/W535	0	4	A0/A1	dk bn sd lm	
	4	12	pz	md bn sd st	
	12	48	dist	mo ob st sd	
	48	60	B2	ob sd st w/pb&gv	
S625/W520	0	4	A0/A1	dk bn st lm	
	4	24	pz	md bn sd st w/pb&gv	
	24	50	B2	ob sd st w/gv	
S625/W505	0	4	A0/A1	dk bn st lm	
	4	27	pz	mo md bn sd st w/pb&gv	
	27	60	B2	ob sd st w/pb&gv	
S625/W490	0	3	A0/A1	dk bn st lm	
	3	12	pz	md bn sd st	
	12	30	dist	mo ob sd st w/pb	
	30	48	B2	ob st cl	
S625/W475	0	3	A0/A1	dk bn st lm	
	3	18	pz	md bn sd st	
	18	40	B2	ob cl st w/pb&gv	
S625/W460	0	3	A0/A1	dk bn sd st	
	3	15	pz	md bn sd st w/pb&gv	
	15	28	lens	gr st	1 clear glass jar rim, 2 insulated copper wire, 1 metal cable, 1 aluminum strap, 2 coal, 1 concrete, 1 plastic
	28	40	B2	ob cl st w/pb&gv	
S625/W445	0	6	A0/A1	dk bn sd lm	
	6	60	pz	md bn st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S625/W430	0	3	A0/A1	dk bn st lm	
	3	27	pz	md bn st sd	1 solarized bottle glass, 1 brown bottle glass, 1 clear flat glass
	27	60	B2	ob st sd	
S625/W415	0	7	A0/A1	dk bn sd lm	
	7	39	pz	md bn st sd w/pb,gv&cb	
	39	60	B2	ob st sd w/pb,gv&cb	
S625/W400	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn st sd w/pb&gv	
	33	46	B2	ob st sd	
	46	60	B3	lt bn st sd	
S630/W285	0	3	A0/A1	md bn st lm	
	3	33	pz	md bn st sd	
	33	55	B3	yb sd w/pb&gv	
S630/W255	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn sd st w/pb&gv	
	38	60	B2	ob sd st w/pb&gv	
S630/W240	0	4	A0/A1	dk bn sd lm	
	4	27	pz	md bn sd st w/pb&gv	
	27	50	B2	ob sd st w/pb,gv&cb	
S630/W225	0	6	A0/A1	dk bn sd lm	
	6	60	pz	md bn st sd w/pb,gv&cb	
S630/W210	0	5	A0/A1	dk bn st lm	
	5	16	pz	md bn sd st	1 whiteware
	16	60	B2	mo ob sd st w/pb&gv	
S630/W195	0	3	A0/A1	dk bn st lm	
	3	24	pz	md bn st sd	
	24	47	B2	ob st sd	
S630/W180	0	4	A0/A1	dk bn sd lm	
	4	22	pz	md bn st sd	
	22	60	B2	ob st sd	
S630/W165	0	5	A0/A1	dk bn sd lm	
	5	20	pz	md bn st sd	
	20	60	B2	ob st sd w/pb&cb	
S630/W150	0	3	A0/A1	dk bn sd lm	
	3	35	pz	md bn st sd w/pb,gv&cb	3 coal
	35	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S630/W135	0	2	A0/A1	dk bn sd lm	
	2	17	pz	md bn st sd w/pb&gv	
	17	60	B2	lt yb sd st w/pb&gv	
S630/W120	0	7	A0/A1	dk bn lm sd	
	7	22	pz	lt bn sd st w/pb,gv&cb	
	22	60	B2	ob sd st w/pb,gv&cb	
S630/W105	0	5	A0/A1	dk bn sd lm	
	5	17	pz	md bn sd st w/pb,gv&cb	
	17	60	B2	ob st sd w/pb&gv	
S630/W90	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn st sd w/pb,gv&cb	
	32	50	B2	dk ob st sd w/pb,gv&cb	
S630/W75	0	5	A0/A1	dk bn sd lm	
	5	60	pz	md bn st sd w/pb,gv&cb	1 unid iron metal
S630/W60	0	5	A0/A1	dk bn sd lm	
	5	26	pz	md bn st sd	
	26	42	B2	ob st sd	
S630/W45	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd	1 mammal (sheep/goat) vertebra
	28	60	dist	mo dk bn st sd	
S630/W30	0	8	A0/A1	dk bn sd lm	
	8	22	pz	md bn sd st w/pb,gv&cb	
	22	60	B2	ob sd st w/pb,gv&cb	
S630/W15	0	5	A0/A1	dk bn sd lm	
	5	23	pz	md bn st sd w/pb,gv&cb	
	23	60	B2	ob st sd w/pb&gv	
S630/E105	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn sd st w/pb	
	30	57	B2	ob sd st w/pb,gv&cb	
S630/E120	0	6	A0/A1	md bn st lm	
	6	30	pz	md bn st sd	
	30	60	B2	ob cl st	
S630/E135	0	3	A0/A1	md bn st lm	
	3	13	pz	md bn st sd	
	13	60	B2	ob st sd w/pb,gv&cb	
S630/E150	0	5	A0/A1	md bn st lm	
	5	11	pz	md bn st sd	
	11	55	B2	ob cl sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S630/E165	0	5	A0/A1	dk bn st lm w/pb,gv&cb	
	5	15	pz	md bn sd st w/pb,gv&cb	
	15	60	B2	ob sd st w/pb,gv&cb	
S630/E180	0	7	A0/A1	dk bn st lm	
	7	28	pz	md bn sd st w/pb,gv&cb	
	28	50	B2	ob sd st w/pb,gv&cb	
S630/E195	0	3	A0/A1	dk bn st lm	
	3	9	pz	md bn sd st w/pb,gv&cb	1 coal
	9	60	B2	ob sd st w/pb,gv&cb	
S630/E210	0	6	A0/A1	dk bn sd lm	
	6	37	pz	md bn st sd w/pb,gv&cb	
	37	60	B2	ob st sd w/pb,gv&cb	
S630/E225	0	4	A0/A1	dk bn sd lm	
	4	20	pz	md bn sd st	1 whiteware
	20	55	B2	ob sd st w/pb&gv	
S638/W383	0	3	A0/A1	dk bn sd lm	
	3	14	pz	md bn sd st	
	14	60	B2	ob st sd w/pb,gv&cb	
S640/W565	0	4	A0/A1	dk bn lm sd w/gv	
	4	39	B2	dk ob st sd w/pb,gv&cb	
S640/W550	0	4	A0/A1	dk bn lm st	
	4	50	dist	md bn cl st	1 clear window glass, 1 brick, 1 coal
S640/W535	0	4	A0/A1	dk bn st lm	
	4	12	pz	md bn st sd	
	12	42	dist	mo md bn st sd w/pb&cb	
	42	60	B2	ob st cl sd	
S640/W520	0	3	A0/A1	dk bn st lm	
	3	11	pz	md bn st sd	1 brown bottle glass
	11	33	dist	mo md bn st sd w/pb&cb	
	33	60	B2	ob sd	
S640/W505	0	3	A0/A1	dk bn st lm	
	3	60	dist	mo md bn cl st	
S640/W490	0	3	A0/A1	dk bn st lm	
	3	21	pz	md bn st sd	
	21	50	B2	ob cl st	
S640/W475	0	3	A0/A1	dk bn st lm	
	3	12	pz	md bn cl st	
	12	40	B2	ob cl st	

STP	SD	ED	Stratum	Soils	Cultural Material
S640/W460	0	5	A0/A1	dk bn sd lm	
	5	23	pz	md bn st sd	1 clear mirrored glass, 1 clear flat glass, 1 plastic, 3 asphalt
	23	50	B2	lt ob cl st	
S645/W375	0	4	A0/A1	dk bn sd lm	
	4	15	pz	md bn lm sd	
	15	60	B2	ob sd st w/pb&gv	
S645/W315	0	6	A0/A1	dk bn sd lm	
	6	28	pz	md bn st cl	
	28	60	B2	ob st cl w/pb,gv&cb	
S645/W300	0	4	A0/A1	dk bn sd lm	
	4	27	pz	md bn st cl	
	27	60	B2	ob st cl w/pb&gv	
S645/W285	0	3	A0/A1	md bn st lm	
	3	27	pz	md bn st sd	
	27	50	B2	ob st sd	
S645/W255	0	4	A0/A1	md bn st lm	
	4	15	pz	md bn st sd	
	15	50	B2	ob st sd	
S645/W240	0	4	A0/A1	md bn st lm	
	4	23	pz	md bn st sd	
	23	50	B2	ob st sd	
S645/W225	0	6	A0/A1	dk bn sd lm	
	6	40	pz	md bn st sd w/pb,gv&cb	
	40	60	B2	ob st sd w/pb,gv&cb	
S645/W210	0	3	A0/A1	dk bn st lm	
	3	15	pz	md bn st sd	
	15	60	B2	ob st sd	
S645/W195	0	4	A0/A1	dk bn lm st	
	4	15	pz	md bn st sd	
	15	30	dist	mo ob st sd	4 coal
	30	50	dist	md bn st sd	
S645/W180	0	4	A0/A1	dk bn lm st	
	4	24	pz	ob st sd	1 amber bottle glass
	24	50	dist	md bn st sd	1 porcelain
S645/W165	0	4	A0/A1	dk bn sd lm	
	4	33	dist	mo ob st sd	
	33	60	pz	md bn st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S645/W150	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd	
	30	60	B2	ob st sd	
S645/W135	0	3	A0/A1	dk bn lm st	
	3	18	pz	md bn sd st	
	18	47	B2	ob st sd w/pb,gv&cb	
	47	60	B3	lt bn st sd w/pb	
S645/W120	0	4	A0/A1	dk bn sd lm	
	4	38	pz	md bn st sd w/pb,gv&cb	
	38	60	B2	ob st sd w/pb,gv&cb	
S645/W105	0	5	A0/A1	md bn st sd	
	5	36	pz	md bn st sd	1 blue painted porcelain
	36	60	B2	lt ob st sd w/pb&gv	
S645/W75	0	15	A0/A1	dk bn sd lm	
	15	40	pz	md bn st sd	
	40	60	B2	ob st sd w/pb,gv&cb	
S645/W60	0	16	pz	md bn sd st w/pb&gv	
	16	44	B2	ob st sd w/pb&gv	
	44	60	B3	lt bn cl sd w/gv	
S645/W45	0	3	A0/A1	dk bn sd lm	
	3	62	pz	md bn st sd w/pb	2 aluminum bands
S645/W30	0	7	A0/A1	dk bn sd lm	
	7	34	pz	md bn sd st w/pb,gv&cb	
	34	60	B2	ob sd st w/pb,gv&cb	
S645/W15	0	6	A0/A1	dk bn sd lm	
	6	14	pz	md bn st sd w/pb,gv&cb	
	14	50	dist	ob st sd w/pb,gv&cb	
	50	70	dist	dk bn st sd w/pb,gv&cb	
S645/E120	0	5	A0/A1	dk bn sd lm	
	5	60	dist	md bn st sd w/pb,gv&cb	1 clear bottle glass
S645/E135	0	5	A0/A1	dk bn st lm	
	5	50	dist	md bn st sd w/pb,gv&cb	
S645/E150	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn sd st	
	33	50	B2	ob sd st	
S645/E165	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn sd st w/pb,gv&cb	
	22	50	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S645/E180	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn st sd w/pb&gv	
	32	53	B2	ob sd st	
S645/E195	0	4	A0/A1	dk bn st lm	
	4	14	pz	md bn sd st	
	14	50	B2	ob sd st	
S655/W520	0	5	A0/A1	dk bn sd lm	
	5	43	dist	md bn st sd w/pb,gv&cb	
	43	60	B2	ob cl st	
S655/W505	0	3	A0/A1	dk bn st lm	
	3	27	dist	md bn lm st	
	27	60	B2	ob sd st	
S655/W490	0	4	A0/A1	dk bn lm st	
	4	33	dist	md bn cl st	
	33	50	pz	ob cl st	
S655/W475	0	4	A0/A1	dk bn lm st	
	4	37	dist	ob cl st	1 whiteware, 1 plastic
S659/W180	0	41	pz	md bn st sd w/pb,gv&cb	
	41	60	B2	ob st sd w/pb,gv&cb	
S660/W330	0	3	A0/A1	dk bn st lm	
	3	27	pz	md bn sd st	
	27	50	B2	ob cl st	
S660/W315	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn st cl	
	24	50	B2	ob st cl	
S660/W300	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st cl	
	26	60	B2	ob st cl w/pb,gv&cb	
S660/W285	0	3	A0/A1	dk bn st lm	
	3	24	pz	md bn st cl w/pb,gv&cb	
	24	50	B2	ob st cl w/pb,gv&cb	
S660/W255	0	5	A0/A1	dk bn st lm	
	5	50	dist	mo md bn st sd w/pb,gv&cb	
S660/W240	0	5	A0/A1	dk bn sd lm	
	5	26	pz	md bn sd st w/gv	
	26	60	B2	ob sd st w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S660/W225	0	4	A0/A1	dk bn st lm	
	4	22	pz	md bn st sd w/pb,gv&cb	
	22	45	B2	ob st sd w/pb,gv&cb	
S660/W210	0	4	A0/A1	dk bn lm st	
	4	30	pz	md bn st sd	3 coal
	30	50	B2	ob st sd	
S660/W195	0	13	pz	md bn st sd	
	13	30	B2	ob st sd w/pb&gv	
	30	60	B3	lt bn st sd w/pb&gv	
S660/W181	0	38	pz	md bn st sd w/pb,gv&cb	1 large carriage bolt
	38	52	B2	ob st sd w/pb,gv&cb	
	52	60	B3	lt bn st sd w/pb&gv	
S660/W180	0	20	pz	md bn st sd w/pb&gv	1 chert triangular projectile point, 1 quartz sec flake, 1 aqua window glass, 1 whiteware
	20	47	B2	ob st sd w/pb,gv&cb	
	47	60	B3	lt bn st sd w/pb,gv&cb	
S660/W179	0	39	pz	md bn st sd w/pb,gv&cb	1 wire nail
	39	60	B2	ob st sd w/pb,gv&cb	
S660/W165	0	3	A0/A1	dk bn sd lm	
	3	42	pz	md bn st sd	
	42	60	B2	ob st sd w/pb,gv&cb	
S660/W150	0	6	A0/A1	dk bn sd lm	
	6	25	pz	md bn st sd w/pb&gv	
	25	60	B2	ob st sd w/pb,gv&cb	
S660/W135	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd w/pb,gv&cb	
	30	60	B2	ob st sd w/pb,gv&cb	
S660/W120	0	5	A0/A1	dk bn sd lm	
	5	30	pz	md bn st sd w/pb,gv&cb	
	30	60	B2	ob st sd w/pb,gv&cb	
S660/W105	0	3	A0/A1	dk bn st lm	
	3	21	pz	md bn st sd	
	21	50	B2	ob sd	
S660/W90	0	10	A0/A1	dk bn sd lm	
	10	30	pz	md bn st sd w/pb	
	30	60	B2	ob st sd w/pb,gv&cb	
S660/W75	0	8	A0/A1	dk bn sd lm	
	8	32	pz	md bn st sd	
	32	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S660/W60	0	1	A0/A1	dk bn sd st	
	1	11	pz	md bn sd st w/pb&gv	
	11	60	B2	ob st sd w/pb&gv	1 nail
S660/W45	0	5	A0/A1	dk bn sd lm	
	5	20	pz	md bn sd st w/pb,gv&cb	
	20	60	B2	ob sd st w/pb,gv&cb	
S660/W30	0	7	A0/A1	dk bn lm sd	
	7	33	pz	lt bn sd st w/pb,gv&cb	
	33	60	B2	ob sd st w/pb,gv&cb	
S660/W15	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb,gv&cb	
	26	50	B2	ob st sd w/pb,gv&cb	
S660/E0	0	5	A0/A1	dk bn sd lm w/gv	
	5	27	pz	md bn sd st w/pb,gv&cb	1 unid iron
	27	60	B2	ob st sd w/pb,gv&cb	
S660/E120	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn sd st w/pb,gv&cb	
	22	55	B2	ob sd st w/pb,gv&cb	
S660/E135	0	2	A0/A1	dk bn st lm	
	2	13	pz	md bn sd st w/pb,gv&cb	
	13	50	B2	ob sd st w/pb,gv&cb	
S660/E150	0	3	A0/A1	md bn sd lm	
	3	13	pz	md bn st sd	
	13	60	B2	ob st sd	
S660/E165	0	4	A0/A1	dk bn sd lm	
	4	15	pz	dk bn st sd	
	15	50	B2	ob st sd w/pb&gv	
S660/E180	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn sd st	
	25	50	B2	ob sd st	
S660/E195	0	4	A0/A1	dk bn st lm	
	4	19	pz	md bn sd st w/pb,gv&cb	
	19	58	B2	ob sd st w/pb,gv&cb	
S661/W180	0	3	A0/A1	dk bn sd lm	
	3	34	pz	md bn st sd w/pb,gv&cb	
	34	60	B2	ob st sd w/pb,gv&cb	
S670/W505	0	5	A0/A1	dk bn st lm	
	5	33	dist	md bn lm st	
	33	60	B2	ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S670/W490	0	3	A0/A1	dk bn st lm	
	3	31	dist	md bn lm st	
	31	60	dist	mo ob cl st	
S674/W210	0	4	A0/A1	dk bn st lm	
	4	12	pz	md bn st sd	1 blue printed pearlware
	12	60	dist	mo md bn st sd w/pb,gv&cb	
S675/W360	0	4	A0/A1	dk bn lm st	
	4	17	pz	md bn st sd	1 clear bottle glass
	17	50	B2	ob st sd	
S675/W345	0	4	A0/A1	dk bn st lm	
	4	22	pz	md bn st sd	
	22	60	B2	ob st sd	
S675/W330	0	5	A0/A1	dk bn st lm	
	5	10	pz	md bn sd st	
	10	60	B2	ob cl st	
S675/W315	0	4	A0/A1	dk bn sd lm	
	4	28	pz	md bn st sd	
	28	60	B2	ob st sd	
S675/W300	0	5	A0/A1	dk bn sd lm	
	5	32	pz	md bn st sd w/pb,gv&cb	
	32	60	B2	ob st sd w/pb&gv	
S675/W285	0	3	A0/A1	dk bn st lm	
	3	13	pz	md bn sd st	
	13	60	B2	ob cl sd	
S675/W270	0	4	A0/A1	dk bn st lm	
	4	24	pz	md bn st sd	
	24	45	B2	ob st sd	
S675/W255	0	4	A0/A1	dk bn lm st	
	4	30	pz	md bn st sd	
S675/W240	0	4	A0/A1	dk bn sd lm	
	4	25	dist	mo md bn sd st	
	25	50	dist	mo ob sd st w/gv	
	50	60	B3	lt bn st sd w/gv	
S675/W225	0	4	A0/A1	dk bn sd lm	
	4	40	pz	md bn st sd w/pb,gv&cb	
	40	50	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S675/W211	0	3	A0/A1	dk bn st lm	
	3	12	pz	md bn st sd	1 aqua bottle glass
	12	44	dist	mo md bn st sd	
	44	60	B2	ob st sd	
S675/W210	0	60	dist	md bn st sd w/pb,gv&cb	1 quartz tert flake, 1 aqua flat glass, 1 blue painted pearlware, 1 whiteware, 2 brick, 1 coal
S675/W209	0	6	A0/A1	md bn sd lm	
	6	25	pz	md bn st sd	1 polychrome pearlware rim
	25	60	B2	ob st sd	
S675/W195	0	5	A0/A1	dk bn sd st	
	5	34	pz	md bn sd st	
	34	60	B2	ob sd st w/gv	
S675/W180	0	4	A0/A1	dk bn sd lm	
	4	53	pz	md bn sd st w/pb	1 clear pressed glass tumbler, 1 clear bottle glass, 1 green bottle glass, 1 whiteware rim, 1 unid metal, concrete, coal
	53	60	B2	ob cl st	
S675/W165	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn sd st	1 clear bottle glass
	33	60	B2	ob sd st w/gv	
S675/W150	0	3	A0/A1	dk bn sd lm	
	3	45	pz	md bn st sd w/pb&gv	
	45	60	B2	lt bn st sd w/pb&gv	
S675/W135	0	6	A0/A1	dk bn sd lm	
	6	26	pz	md bn sd st w/pb,gv&cb	
	26	60	B2	ob st sd w/pb,gv&cb	
S675/W120	0	5	A0/A1	dk bn sd lm	
	5	18	pz	md bn sd st w/pb,gv&cb	
	18	60	B2	ob st sd w/pb,gv&cb	
S675/W105	0	8	A0/A1	dk bn sd lm	
	8	32	pz	md bn st sd w/pb	
	32	60	B2	ob st sd w/pb&gv	
S675/W90	0	10	A0/A1	dk bn sd lm	
	10	29	pz	md bn st sd w/pb	
	29	60	B2	ob st sd w/pb,gv&cb	
S675/W75	0	6	A0/A1	dk bn sd lm	
	6	28	pz	md bn st sd	
	28	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S675/W60	0	7	A0/A1	dk bn sd st	
	7	32	pz	md bn sd st w/pb&gv	
	32	60	B2	ob st sd w/pb&gv	
S675/W45	0	4	A0/A1	dk bn sd lm	
	4	27	pz	md bn st sd w/pb&cb	1 gunflint, 2 iron agricultural machine parts
	27	60	B2	ob st sd w/pb&cb	
S675/W30	0	6	A0/A1	dk bn sd lm	
	6	19	pz	md bn st sd w/pb,gv&cb	
	19	45	B2	ob st sd w/pb,gv&cb	
S675/W15	0	4	A0/A1	dk bn sd lm	
	4	34	pz	md bn st sd	
	34	60	B2	ob st sd w/pb,gv&cb	
S675/E0	0	5	A0/A1	dk bn sd lm	
	5	21	pz	md bn sd st w/pb,gv&cb	
	21	60	B2	ob sd st w/pb,gv&cb	
S675/E105	0	8	A0/A1	dk bn st lm	
	8	27	pz	md bn st sd w/pb&gv	
	27	60	B2	ob st sd w/pb&gv	
S675/E120	0	3	A0/A1	dk bn st lm	
	3	16	pz	md bn sd st w/pb,gv&cb	
	16	50	B2	ob sd st w/pb,gv&cb	
S675/E135	0	2	A0/A1	dk bn sd lm	
	2	5	pz	gb st sd	
	5	50	B2	ob st sd w/pb,gv&cb	
S675/E150	0	3	A0/A1	md bn sd lm	
	3	10	pz	md bn st sd	
	10	20	B2	ob st sd w/pb&gv	
S675/E165	0	3	A0/A1	md bn sd lm	
	3	14	pz	md bn st sd	
	14	50	B2	ob st sd w/pb&gv	
S675/E180	0	3	A0/A1	md bn sd lm	
	3	33	pz	md bn st sd	
	33	50	B2	ob st sd w/pb,gv&cb	
S676/W210	0	5	A0/A1	md bn sd lm	
	5	21	pz	md bn st sd	
	21	60	dist	mo ob st sd	
S690/W345	0	6	A0/A1	dk bn sd lm	
	6	30	pz	md bn st sd w/pb	
	30	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S690/W330	0	4	A0/A1	dk bn st lm	
	4	25	pz	md bn st sd	
	25	50	B2	ob cl sd	
S690/W315	0	8	A0/A1	dk bn st lm	
	8	50	pz	md bn st sd	
S690/W300	0	5	A0/A1	dk bn sd lm	
	5	16	pz	md bn sd st w/pb&gv	
	16	60	B2	ob st sd w/pb&gv	
S690/W285	0	3	A0/A1	dk bn sd lm	
	3	22	pz	md bn sd st w/pb,gv&cb	
	22	60	B2	ob st sd w/pb&gv	
S690/W270	0	6	A0/A1	dk bn sd lm	
	6	29	pz	md bn st sd	
	29	60	B2	ob st sd w/pb&gv	
S690/W255	0	4	A0/A1	dk bn sd lm	
	4	35	pz	md bn st sd	
	35	60	B2	ob st sd w/pb&gv	
S690/W240	0	3	A0/A1	dk bn sd lm	
	3	17	pz	md bn sd st	
	17	60	B2	ob sd st w/pb	
S690/W225	0	5	A0/A1	md bn st lm	
	5	16	pz	md bn st sd	
	16	50	B2	ob st sd	
S690/W210	0	4	A0/A1	dk bn st lm	
	4	18	pz	md bn st sd	
	18	60	dist	mo ob sd st w/pb	
S690/W195	0	2	A0/A1	dk bn sd lm	
	2	60	pz	md bn st sd w/pb,gv&cb	1 amber bottle glass, 1 whiteware
S690/W180	0	24	pz	md bn cl st w/pb&gv	
	24	60	B2	ob sd st w/pb,gv&cb	
S690/W165	0	4	A0/A1	dk bn sd lm	
	4	60	pz	md bn st sd w/pb,gv&cb	
S690/W150	0	2	A0/A1	dk bn st lm	
	2	49	pz	md bn st sd	1 amber bottle glass, 1 brick
	49	60	A2	ob st sd	
S690/W135	0	6	A0/A1	dk bn st lm	
	6	60	dist	lt ob st sd w/pb&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S690/W120	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn st sd	
	23	45	B2	ob cl st	
S690/W105	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb&gv	
S690/W90	0	15	A0/A1	dk bn sd lm	
	15	31	pz	md bn st sd	
	31	60	B2	ob st sd w/pb&gv	
S690/W75	0	6	A0/A1	dk bn sd lm	
	6	25	pz	md bn st sd	1 salt glazed stoneware
	25	60	B2	lt bn st sd w/pb,gv&cb	
S690/W60	0	4	A0/A1	dk bn sd st	
	4	21	pz	md bn sd st w/pb&gv	
	21	60	B2	ob sd st w/pb&gv	
S690/W45	0	2	A0/A1	md bn sd lm	
	2	9	pz	md bn st sd	
	9	60	B2	ob sd w/pb,gv&cb	
S690/W30	0	5	A0/A1	dk bn sd lm	
	5	16	pz	md bn st sd w/pb,gv&cb	
	16	50	B2	ob st sd w/pb,gv&cb	
S690/W15	0	3	A0/A1	dk bn sd lm	
	3	17	pz	md bn st sd w/pb,gv&cb	
	17	53	B2	ob st sd w/pb,gv&cb	
S690/E0	0	6	A0/A1	dk bn sd lm	
	6	25	pz	md bn sd st w/pb,gv&cb	
	25	60	B2	ob sd st w/pb,gv&cb	
S690/E15	0	7	A0/A1	dk bn sd lm	
	7	14	pz	md bn st sd w/pb,gv&cb	
	14	56	B2	ob st sd w/pb,gv&cb	
	56	60	B3	gr cl sd w/gv	
S690/E30	0	7	A0/A1	dk bn sd lm	
	7	25	pz	md bn st sd w/pb,gv&cb	
	25	60	B2	ob st sd w/pb,gv&cb	
S690/E90	0	3	A0/A1	dk bn st lm	
	3	19	pz	md bn st sd	
	19	33	dist	ob st sd w/pb,gv&cb	
	33	43	dist	dk gb st sd w/pb,gv&cb	
	43	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S690/E105	0	7	A0/A1	dk bn st lm	
	7	14	pz	md bn st sd w/pb&gv	
	14	60	B2	ob st sd w/pb&gv	
S690/E120	0	4	A0/A1	dk bn st lm	
	4	14	pz	md bn st sd w/pb,gv&cb	
	14	60	B2	mo ob st sd w/pb,gv&cb	
S690/E135	0	2	A0/A1	dk bn sd lm	
	2	10	pz	gb st sd	
	10	50	B2	ob st sd	
S690/E150	0	5	A0/A1	dk bn st lm	
	5	17	pz	md bn st sd w/pb,gv&cb	
	17	60	B2	mo ob st sd w/pb,gv&cb	
S690/E165	0	6	A0/A1	dk bn sd lm	
	6	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S705/W315	0	2	A0/A1	dk bn st lm	
	2	29	pz	md bn st cl	3 coal
	29	50	B2	ob cl st	
S705/W300	0	4	A0/A1	md bn st lm	
	4	26	pz	md bn st sd	
	26	50	B2	ob st sd	
S705/W285	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd	
	31	60	B2	ob st sd w/pb&gv	
S705/W270	0	6	A0/A1	dk bn sd lm	
	6	30	pz	md bn st sd	
	30	60	B2	ob st sd w/pb&gv	
S705/W255	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn st sd	
	28	60	B2	ob st sd w/pb&gv	
S705/W240	0	4	A0/A1	dk bn sd lm	
	4	22	pz	md bn sd st	
	22	60	B2	dk ob sd st w/pb	
S705/W225	0	7	A0/A1	md bn sd lm	
	7	14	pz	md bn sd st	
	14	60	B2	dk bn sd st w/pb	
S705/W212	0	4	A0/A1	dk bn st lm	
	4	22	pz	md bn st sd	
	22	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S705/W195	0	60	pz	md bn st sd w/pb,gv&cb	1 creamware, 3 nails, 1 coal
S705/W180	0	5	A0/A1	md bn st lm	
	5	12	pz	md bn st sd	
	12	50	dist	mo ob st sd	
S705/W165	0	2	A0/A1	dk bn sd lm	
	2	40	pz	md bn sd st	
	40	60	B2	ob cl st	
S705/W150	0	2	A0/A1	dk bn lm st	
	2	20	pz	md bn st sd w/pb,gv&cb	
	20	45	B2	mo ob st sd w/pb&gv	
S705/W135	0	7	A0/A1	dk bn lm st	
	7	58	dist	lt bn st sd w/cb	1 clear flat glass
S705/W120	0	4	A0/A1	dk bn st lm	
	4	25	pz	md bn st sd	1 clear bottle glass
	25	55	B2	ob st sd	
S705/W105	0	3	A0/A1	dk bn sd lm	
	3	38	pz	md bn st sd w/pb,gv&cb	
	38	60	B2	ob st sd w/pb,gv&cb	
S705/W90	0	8	A0/A1	dk bn st lm	
	8	34	pz	md bn st sd	
	34	60	B3	lt bn sd w/gv	
S705/W75	0	7	A0/A1	dk bn sd lm	
	7	28	pz	md bn st sd	
	28	60	B2	lt bn st sd w/pb,gv&cb	
S705/W60	0	5	A0/A1	dk bn sd st	
	5	19	pz	md bn sd st w/pb&gv	
	19	47	B2	ob st sd w/pb&gv	
	47	60	B3	lt bn cl sd w/gv	
S705/W45	0	5	A0/A1	dk bn st lm	
	5	42	pz	md bn st sd	
	42	60	B2	ob st sd	
S705/W30	0	4	A0/A1	dk bn sd lm	
	4	16	pz	md bn st sd w/pb,gv&cb	
	16	50	B2	ob cl sd w/pb,gv&cb	
S705/W15	0	5	A0/A1	dk bn sd lm	
	5	14	pz	md bn st sd	2 brick
	14	38	B2	ob st sd	
	38	60	B3	yb st sd w/gv&pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S705/E0	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd w/pb&cb	
	35	50	B2	ob st sd w/pb&cb	
S705/E15	0	5	A0/A1	dk bn sd lm	
	5	40	pz	md bn st sd	5 amber bottle base, 9 amber bottle, 1 cotton piece (shoelace?), 1 slag
	40	60	B2	ob st sd	
S705/E30	0	4	A0/A1	dk bn sd lm	
	4	43	pz	md bn st sd	
	43	54	B2	ob st sd	
S705/E90	0	5	A0/A1	dk bn st lm	
	5	17	pz	md bn sd st w/pb,gv&cb	
	17	60	B2	ob st sd w/pb,gv&cb	1 square cut nail
S705/E105	0	5	A0/A1	dk bn st lm	
	5	24	pz	md bn st sd w/pb,gv&cb	
	24	60	B2	ob st sd w/pb,gv&cb	
S705/E120	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd w/pb,gv&cb	
	35	60	B2	ob st sd w/pb,gv&cb	
S705/E135	0	5	A0/A1	dk bn sd lm	
	5	15	pz	md bn st sd w/pb,gv&cb	
	15	38	dist	lt bn st sd w/pb&gv	
	38	60	B2	ob st sd w/pb&gv	
S705/E150	0	3	A0/A1	md bn sd lm	
	3	32	pz	md bn st sd	
	32	49	dist	lt bn st sd	
	49	60	B2	ob st sd	
S719/W285	0	4	A0/A1	md bn st lm	
	4	32	pz	md bn sd st	
	32	50	B2	ob cl st	
S719/W210	0	4	A0/A1	dk bn lm st	
	4	60	dist	ob st sd	
S720/W286	0	4	A0/A1	dk bn st lm	
	4	35	pz	md bn sd st	
	35	50	B2	ob cl st	
S720/W285	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st	
	34	60	B2	ob sd st	1 quartz tert flake

STP	SD	ED	Stratum	Soils	Cultural Material
S720/W284	0	4	A0/A1	md bn st lm	
	4	24	pz	md bn sd st	
	24	50	B2	ob cl st	
S720/W270	0	6	A0/A1	dk bn sd lm	
	6	28	pz	md bn st sd	
	28	60	B2	ob st sd w/pb&gv	
S720/W255	0	8	A0/A1	dk bn sd lm	
	8	31	pz	md bn st sd	
	31	60	B2	ob st sd w/pb,gv&cb	
S720/W240	0	7	A0/A1	dk bn st lm	
	7	18	pz	md bn st sd	
	18	45	B2	ob st sd	
S720/W225	0	4	A0/A1	dk bn sd lm	
	4	27	pz	md bn st sd	
	27	60	B2	ob st sd w/pb&gv	
S720/W211	0	4	A0/A1	dk bn sd lm	
	4	40	pz	md bn st sd w/pb,gv&cb	
	40	60	B2	ob st sd w/pb,gv&cb	
S720/W210	0	5	A0/A1	dk bn sd lm	
	5	16	pz	md bn sd st	1 quartz modified tert flake, 1 square cut nail
	16	50	B2	ob sd st w/pb	
	50	60	B3	ob st sd w/pb&gv	
S720/W209	0	10	A0/A1	dk bn lm st	
	10	60	dist	ob st sd	1 clear flat glass
S720/W195	0	3	A0/A1	dk bn lm st	
	3	22	B2	md bn st sd	
	22	60	dist	ob st sd	
S720/W180	0	55	pz	md bn st sd	1 dark green bottle glass
	55	63	B2	ob st sd w/pb&gv	
S720/W165	0	23	pz	md bn st sd w/pb,gv&cb	
	23	60	B2	ob st sd w/pb,gv&cb	
S720/W150	0	2	A0/A1	dk bn st lm	
	2	45	dist	mo md bn st sd	
S720/W135	0	7	A0/A1	dk bn lm st	
	7	60	dist	ob st sd	1 brown bottle glass
S720/W120	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn st sd	2 brick
	23	50	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S720/W105	0	4	A0/A1	dk bn sd lm	
	4	15	pz	md bn st sd w/pb,gv&cb	
	15	38	B2	ob st sd w/pb,gv&cb	
	38	60	B3	lt bn st sd w/pb	
S720/W90	0	4	A0/A1	dk bn sd lm	
	4	20	pz	md bn st sd w/pb,gv&cb	
	20	39	B2	ob sd w/pb&gv	
	39	60	B3	lt bn sd	
S720/W75	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn st sd	
	28	60	B2	lt bn st sd w/pb&gv	
S720/W60	0	5	A0/A1	dk bn sd lm	
	5	17	pz	md bn sd st w/pb&gv	1 wire frag
	17	60	B2	lt ob st sd w/pb&gv	
S720/W45	0	2	A0/A1	md bn sd lm	
	2	13	pz	md bn st sd	
	13	60	B2	ob sd w/pb,gv&cb	
S720/W15	0	4	A0/A1	dk bn sd lm	
	4	25	pz	md bn st sd	
	25	50	B2	mo ob st sd w/pb&gv	
S720/E0	0	2	A0/A1	dk bn st sd	
	2	12	pz	md bn st sd	
	12	18	B2	ob st sd w/pb	
	18	60	B3	mo ob st sd	
S720/E15	0	6	A0/A1	dk bn sd lm	
	6	37	pz	md bn st sd	
	37	60	B2	ob st sd	
S720/E30	0	5	A0/A1	dk bn st sd w/gv	
	5	15	pz	md bn st sd w/pb,gv&cb	
	15	60	B2	ob st sd w/pb,gv&cb	
S720/E45	0	5	A0/A1	dk bn sd lm w/gv	
	5	16	pz	md bn st sd w/pb,gv&cb	
	16	60	B2	ob st sd w/pb,gv&cb	
S720/E60	0	4	A0/A1	dk bn sd st	
	4	22	pz	md bn sd st w/pb&gv	
	22	60	B2	ob st sd w/pb&gv	
S720/E75	0	7	A0/A1	dk bn sd st	
	7	23	pz	md bn sd st w/pb&gv	
	23	60	B2	ob sd st w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S720/E90	0	5	A0/A1	dk bn sd lm	
	5	22	pz	md bn sd st w/pb,gv&cb	
	22	60	B2	mo ob st sd w/pb,gv&cb	
S720/E105	0	5	A0/A1	dk bn sd lm	
	5	31	pz	md bn st sd w/pb,gv&cb	
	31	60	B2	ob st sd w/pb&gv	
S720/E120	0	6	A0/A1	dk bn sd lm	
	6	19	pz	md bn st sd w/pb,gv&cb	
	19	42	B2	ob st sd w/pb&gv	
	42	60	B3	lt bn st sd	
S720/E150	0	4	A0/A1	md bn sd lm	
	4	23	pz	md bn st sd w/pb,gv&cb	
	23	53	B2	ob st sd w/pb,gv&cb	
S721/W285	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn sd st	1 clear curved glass
	35	50	B2	ob cl st	
S721/W210	0	3	A0/A1	d bn sd lm	
	3	33	pz	md bn st sd w/pb,gv&cb	1 quartz sec flake, 1 quartz tert flake
	33	60	B2	ob st sd w/pb&gv	
S735/W240	0	24	B2	ob st sd	
	24	60	B3	yb sd w/pb&gv	
S735/W225	0	3	A0/A1	dk bn sd lm	
	3	20	pz	md bn st sd w/pb,gv&cb	
	20	36	B2	ob st sd w/pb,gv&cb	
	36	60	B3	lt bn st sd w/pb&gv	
S735/W210	0	4	A0/A1	dk bn sd lm	
	4	36	dist	md bn st sd w/pb,gv&cb	
	36	60	B3	lt bn st sd w/pb&gv	
S735/W195	0	3	A0/A1	md bn sd lm	
	3	60	dist	mo md bn st sd	1 quartz tert flake, 1 clear bottle glass, 2 nails
S735/W180	0	60	pz	md bn st sd	1 blue printed white stoneware, 1 brick
S735/W165	0	2	A0/A1	dk bn sd lm	
	2	45	pz	md bn st sd w/pb,gv&cb	
	45	57	B2	ob st sd w/pb,gv&cb	
S735/W150	0	9	A0/A1	dk bn sd lm	
	9	31	pz	md bn st sd	
	31	60	B2	ob st sd	

STP	SD	ED	Stratum	Soils	Cultural Material
S735/W135	0	8	A0/A1	dk bn sd lm	
	8	25	pz	md bn st sd w/pb&gv	
	25	60	B3	lt bn st sd	
S735/W120	0	4	A0/A1	dk bn st lm	
	4	23	dist	mo md bn st sd	
	23	50	B3	gb sd w/pb,gv&cb	
S735/W105	0	5	A0/A1	dk bn sd lm	
	5	22	pz	md bn st sd	
	22	41	B2	ob st sd w/pb,gv&cb	
	41	60	B3	lt bn st sd w/pb&gv	
S735/W95	0	8	A0/A1	dk bn sd lm	
	8	30	pz	md bn st sd	
	30	60	B2	ob st sd w/pb	
S735/W75	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd w/pb&gv	
	29	60	B2	ob st sd w/pb,gv&cb	
S735/W60	0	5	A0/A1	dk bn sd lm	
	5	48	pz	md bn st sd w/pb,gv&cb	
S735/W45	0	2	A0/A1	dk bn sd lm	
	2	37	pz	md bn st sd w/pb&gv	
	37	60	B2	ob st sd w/gv	
S735/W30	0	5	A0/A1	dk bn lm st	
	5	27	pz	ob sd st w/pb,gv&cb	
	27	60	B2	yb sd st w/pb,gv&cb	
S735/W15	0	2	A0/A1	dk bn sd lm	
	2	30	pz	md bn st sd	
S735/E0	0	5	A0/A1	md bn st lm	
	5	18	pz	md bn st sd	
	18	45	B2	ob st sd	
S735/E15	0	6	A0/A1	dk bn sd lm	
	6	30	pz	md bn st sd w/pb	
	30	57	B2	dk ob st sd	1 square cut nail
S735/E30	0	3	A0/A1	dk bn lm st	
	3	25	pz	md bn sd st w/pb,gv&cb	
	25	60	B2	ob sd st w/pb,gv&cb	
S735/E45	0	4	A0/A1	dk bn sd lm	
	4	32	pz	md bn st sd w/pb,gv&cb	
	32	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S735/E60	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S735/E75	0	6	A0/A1	dk bn sd lm	
	6	10	pz	md bn st sd w/pb&gv	
	10	60	B2	ob st sd w/pb&gv	
S735/E90	0	6	A0/A1	dk bn sd lm	
	6	17	pz	md bn sd st w/pb,gv&cb	
	17	45	B2	ob sd st w/pb,gv&cb	
S735/E105	0	4	A0/A1	md bn sd lm	
	4	20	pz	md bn st sd	
	20	50	B2	ob st sd w/pb,gv&cb	
S735/E120	0	3	A0/A1	md bn sd lm	
	3	20	pz	md bn st sd	1 unid metal
	20	54	B2	ob st sd w/pb,gv&cb	
S750/W210	0	14	pz	dk bn cl st	
	14	50	B2	ob cl st	
S750/W195	0	57	pz	md bn st sd w/pb,gv&cb	
	57	60	B2	ob st sd w/pb,gv&cb	
S750/W180	0	31	pz	md bn st sd w/pb,gv&cb	1 nail
	31	60	B2	ob st sd w/pb&gv	
S750/W165	0	4	A0/A1	dk bn sd lm	
	4	60	pz	md bn st sd w/pb,gv&cb	
S750/W150	0	7	A0/A1	dk bn st lm	
	7	24	pz	md bn st sd w/pb,gv&cb	
	24	50	B2	ob st sd w/pb,gv&cb	
S750/W135	0	2	A0/A1	dk bn st lm	
	2	32	pz	md bn st sd	
	32	50	B2	ob st sd	
S750/W120	0	4	A0/A1	dk bn st lm	
	4	16	pz	dk bn st lm	
	16	50	B3	lt bn sd w/pb&gv	
S750/W105	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn st sd w/pb,gv&cb	
	21	39	B2	ob st sd w/pb,gv&cb	
	39	60	B3	lt bn sd w/pb,gv&cb	
S750/W90	0	6	A0/A1	dk bn st lm	
	6	31	pz	md bn st sd w/pb&gv	
	31	60	B2	ob st sd w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S750/W75	0	10	A0/A1	dk bn sd lm	
	10	31	pz	md bn st sd w/pb	
	31	60	B2	ob st sd w/pb&gv	
S750/W60	0	6	A0/A1	dk bn sd lm	1 hand wrought nail
	6	33	pz	md bn st sd w/pb,gv&cb	
	33	60	B2	ob st sd w/pb&gv	
S750/W45	0	5	A0/A1	dk bn sd lm	
	5	14	pz	md bn sd st w/pb	1 clear bottle glass
	14	50	B2	ob st sd w/pb&gv	
S750/W28	0	3	A0/A1	dk bn sd lm	
	3	57	pz	md bn st sd w/pb&gv	
S750/E0	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn st sd w/pb	2 asphalt roof shingle
	38	50	B2	dk ob st sd w/pb&gv	
S750/E15	0	4	A0/A1	dk bn sd lm	
	4	25	pz	md bn st sd w/pb,gv&cb	
	25	60	B2	ob st sd w/pb,gv&cb	
S750/E30	0	2	A0/A1	dk bn sd lm	
	2	36	pz	md bn st sd	
	36	60	B2	ob st sd w/pb,gv&cb	
S750/E45	0	5	A0/A1	dk bn sd lm	
	5	60	pz	md bn st sd w/pb	
S750/E60	0	7	A0/A1	dk bn st lm	
	7	60	pz	md bn sd st w/pb&gv	
S750/E75	0	5	A0/A1	dk bn sd st	
	5	24	pz	md bn sd st w/pb,gv&cb	
	24	60	B2	ob sd st w/pb,gv&cb	
S750/E90	0	5	A0/A1	dk bn sd lm	
	5	35	pz	md bn st sd w/pb,gv&cb	
	35	60	B2	ob st sd w/pb&gv	
S750/E105	0	5	A0/A1	dk bn st lm	
	5	36	pz	md bn st sd w/pb,gv&cb	
	36	60	B2	ob st sd w/pb&gv	
S765/W172	0	3	A0/A1	dk bn st lm	
	3	20	dist	mo md bn st sd	
	20	50	B2	ob cl st	

STP	SD	ED	Stratum	Soils	Cultural Material
S765/W105	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn st sd w/pb,gv&cb	
	29	45	B2	ob st sd w/pb,gv&cb	
	45	60	B3	lt bn sd w/pb	
S765/W90	0	9	A0/A1	dk bn sd lm	
	9	35	pz	md bn st sd	
	35	60	B3	lt bn st sd	
S765/W75	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd	
	30	60	B3	lt bn sd w/pb&gv	
S765/W60	0	4	A0/A1	dk bn sd lm	
	4	50	pz	md bn st sd w/pb,gv&cb	
S765/W45	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn sd st w/pb&gv	1 soft shell clam
	29	50	B2	dk ob st sd w/pb,gv&cb	
S765/W30	0	5	A0/A1	dk bn sd lm	
	5	24	pz	md bn st sd	
	24	60	B2	ob st sd w/pb&gv	
S765/W15	0	2	A0/A1	dk bn st sd	
	2	18	pz	md bn st sd	
	18	60	dist	mo ob st sd w/pb&gv	
S765/W1	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd	
	29	60	B2	ob st sd w/pb,gv&cb	
S765/E0	0	4	A0/A1	dk bn st sd	
	4	34	pz	md bn st sd	1 quartz tert flake
	34	60	B2	ob st sd w/gv	
S765/E1	0	3	A0/A1	dk bn sd lm	
	3	25	pz	md bn st sd	
	25	60	B2	ob st sd w/pb&gv	
S765/E15	0	4	A0/A1	dk bn sd lm	
	4	26	pz	md bn st sd w/pb	
	26	55	B2	dk ob st sd w/pb	
S765/E30	0	7	A0/A1	dk bn sd lm	
	7	50	dist	dk ob st sd w/pb&gv	
S765/E45	0	4	A0/A1	dk bn sd lm	
	4	60	pz	md bn st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S765/E60	0	6	A0/A1	dk bn sd lm	
	6	37	pz	md bn st sd w/pb,gv&cb	
	37	60	B2	ob st sd w/pb,gv&cb	
S765/E75	0	4	A0/A1	dk bn sd lm	
	4	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S765/E90	0	7	A0/A1	dk bn sd lm	
	7	36	pz	md bn st sd w/pb,gv&cb	
	36	60	B2	ob st sd w/pb&gv	
S766/E0	0	4	A0/A1	dk bn sd lm	
	4	21	pz	md bn st sd w/gv	
	21	61	B2	ob st sd w/pb,gv&cb	
S770/W150	0	10	A0/A1	dk bn st sd w/pb&gv	
	10	60	dist	ob st sd w/pb,gv&cb	
S774/W144	0	5	A0/A1	dk bn sd lm	
	5	60	dist	md bn st sd w/pb,gv&cb	
S779/W129	0	3	A0/A1	dk bn lm st	
	3	13	A2	md bn sd st	
	13	29	lens	ob sd st	
	29	38	B1	vy lt bn sd st	
	38	60	B2	lt bn sd st	
S779/E0	0	7	A0/A1	dk bn sd lm	
	7	17	pz	md bn st sd w/pb&gv	
	17	60	B2	ob st sd w/pb,gv&cb	
S780/W60	0	4	A0/A1	dk bn sd lm	
	4	14	pz	md bn st sd w/pb,gv&cb	
	14	32	dist	lt bn sd	
	32	46	dist	vy dk bn st sd w/pb,gv&cb	
	46	60	B2	ob st sd w/pb&gv	
S780/W45	0	4	A0/A1	dk bn sd lm	
	4	50	pz	md bn st sd w/pb,gv&cb	
S780/W30	0	6	A0/A1	dk bn sd lm	
	6	40	pz	md bn st sd w/pb,gv&cb	1 clear bottle glass
	40	58	B2	ob st sd w/pb,gv&cb	
S780/W15	0	7	A0/A1	dk bn sd lm	
	7	30	pz	md bn st sd w/pb,gv&cb	
	30	60	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S780/W1	0	4	A0/A1	dk bn sd lm	
	4	17	pz	md bn st sd w/pb&gv	1 nail
	17	52	B2	ob st sd w/pb,gv&cb	
	52	60	B3	lt bn st sd w/pb&gv	
S780/E0	0	6	A0/A1	dk bn sd lm	
	6	31	pz	md bn st sd w/pb,gv&cb	1 quartz core, 1 quartz tert flake
	31	60	B2	ob st sd w/pb,gv&cb	
S780/E1	0	4	A0/A1	dk bn sd lm	
	4	16	pz	md bn st sd	
	16	60	B2	ob st sd w/pb,gv&cb	
S780/E15	0	5	A0/A1	dk bn sd lm	
	5	29	pz	md bn st sd w/pb,gv&cb	
	29	60	B2	ob st sd w/pb,gv&cb	
S780/E30	0	4	A0/A1	dk bn sd lm	
	4	20	pz	md bn st sd w/pb,gv&cb	
	20	60	B2	ob st sd w/pb&gv	
S780/E45	0	4	A0/A1	dk bn sd lm	
	4	24	pz	md bn st sd w/pb,gv&cb	
	24	38	B2	ob st sd w/pb,gv&cb	
	38	60	B3	vy lt bn st sd	
S780/E60	0	5	A0/A1	dk bn sd lm	
	5	15	pz	md bn st sd w/pb&gv	
	15	60	B2	ob st sd w/pb&gv	
S780/E75	0	7	A0/A1	dk bn sd lm	
	7	30	pz	md bn st sd w/pb,gv&cb	
	30	45	B2	ob st sd w/pb,gv&cb	
S784/W115	0	16	A0/A1	bn st sd w/pb&gv	
	16	60	dist	md bn st sd w/pb,gv&cb	
S788/W100	0	3	A0/A1	dk bn sd lm	
	3	60	dist	md bn st sd w/pb,gv&cb	
S793/W80	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn st sd	
	22	50	B2	ob sd w/pb,gv&cb	
S795/E0	0	4	A0/A1	dk bn sd lm	
	4	24	pz	md bn sd st w/pb&gv	
	24	60	B2	ob st sd w/pb,gv&cb	
S795/E15	0	7	A0/A1	dk bn sd lm	
	7	26	pz	md bn sd st w/pb&gv	
	26	52	B2	ob st sd w/pb,gv&cb	

STP	SD	ED	Stratum	Soils	Cultural Material
S795/E30	0	6	A0/A1	dk bn sd lm	
	6	30	pz	md bn st sd w/pb&gv	
	30	50	B2	ob st sd w/pb,gv&cb	
S795/E45	0	4	A0/A1	md bn st lm	
	4	16	pz	md bn st sd	
	16	25	B2	ob st sd	
	25	50	B3	lt bn sd w/pb,gv&cb	
S795/E60	0	1	A0/A1	md bn st sd	
	1	13	pz	md bn sd st w/pb,gv&cb	
	13	60	B3	yb sd st w/pb,gv&cb	
S797/W71	0	10	A0/A1	dk bn st sd w/pb&gv	
	10	60	dist	mo ob st sd	1 flowerpot
S802/W57	0	2	A0/A1	dk bn lm st	
	2	50	dist	md bn st sd	
S807/W42	0	4	A0/A1	dk bn sd lm	
	4	60	dist	md bn st sd w/pb,gv&cb	
S810/E15	0	5	A0/A1	md bn st lm	
	5	23	pz	md bn st sd	
	23	50	B2	ob sd w/pb,gv&cb	
S810/E30	0	6	A0/A1	dk bn sd lm	
	6	33	pz	md bn st sd w/pb&gv	
	33	60	B2	lt bn st sd w/pb,gv&cb	
S810/E45	0	3	A0/A1	dk bn lm st	
	3	24	pz	md bn sd st w/pb,gv&cb	
	24	60	B2	ob sd st w/pb,gv&cb	1 nail frag
S811/W28	0	12	A0/A1	dk bn st sd w/pb&gv	
	12	61	dist	mo ob st sd	
S816/W13	0	3	A0/A1	dk bn st lm	
	3	20	pz	md bn st sd	
	20	42	dist	mo ob bn st sd	
	42	57	B3	yb sd w/pb,gv&cb	
S821/E1	0	3	A0/A1	dk bn lm st	
	3	24	dist	md bn st sd	
S825/E16	0	2	A0/A1	dk bn sd lm	
	2	60	dist	md bn st sd	
S830/E30	0	11	A0/A1	dk bn st sd w/pb&gv	
	11	60	dist	mo ob st sd w/pb,gv&cb	

APPENDIX C: New York State Archaeological Site Inventory Forms

NEW YORK STATE PREHISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

For Office Use Only--Site Identifier NYSM 11237
Project Identifier PIN 0327.95.101 Date January 2002
Your Name Linda E. Barber Phone (631) 632-7618
Address Dept. of Anthropology, SUNY-Stony Brook
Stony Brook, New York
Zip 11794-4364
Organization (if any) Institute for Long Island Archaeology

1. Site Identifier(s) Mills Pond Site

2. County Suffolk
One of following: City
Township Brookhaven
Incorporated Village Head of the Harbor (MCD10345)
Unincorporated Village or Hamlet

3. Present Owner various
Address
Zip

4. Site Description (check all appropriate categories): Structure/site
Site

__ Stray find	__ Cave/Rockshelter	__ Workshop
__ Pictograph	__ Quarry	__ Mound
__ Burial	__ Shell midden	__ Village
X Surface evidence	__ Camp	X Material in plow zone
X Material below plow zone	X Buried evidence	__ Intact occupation floor
__ Single component	__ Evidence of features	__ Stratified
__ Multicomponent		

Location

X Under cultivation	X Never cultivated	X Previously cultivated
__ Pastureland	__ Woodland	__ Floodplain
__ Upland	X Sustaining erosion	X Residential lawn

Soil Drainage: excellent__ good__ fair__ poor X
Slope: flat__ gentle X moderate X steep__
Distance to nearest water from site (approx.) 15 meters Elevation: 42-46 meters

5. Site Investigation (append additional sheets, if necessary):
Surface--date(s) August 2001
Site Map (Submit with form) see report
Collection August 2001
Subsurface--date(s) August-November 2001
Testing: shovel X coring__ other __ unit size 40cm dia.x60cm deep no. of units 364
Excavation: unit size _____ no. of units
Investigator Linda E. Barber, Ph.D., Michael Lenardi, M.A.

Manuscript or published report(s)(reference fully): Barber, Linda E. (2002): *A Cultural Resources Survey Report of PIN 0327.95.101 New York State Route 25A at Mills Pond Road, Head of the Harbor, Town of Smithtown, Suffolk County, New York.* Institute for Long Island Archaeology, SUNY Stony Brook.

Present repository of materials Institute for Long Island Archaeology, SUNY Stony Brook

6. Component (s)(cultural affiliation/dates):
prehistoric; cultural affiliation unknown

7. List of material remains (be as specific as possible in identifying object and material):
Prehistoric lithic artifacts encountered in 39 of 364 shovel test pits (47 pieces), plus 1 quartz biface found on the surface of a recently disked field. Cultural material includes four bifaces (two chert and two quartz), 2 cores, 5 pieces of fire-cracked rock, and 37 pieces of debitage (all but one of quartz or quartzite).

If historic materials are evident, check here and fill out historic site form. X (see B. Bailey site form)

8. Map References: Map or maps showing exact location and extent of site must accompany this form and must be identified by source and date. Keep this submission to 8.5x11" if possible.
USGS 7.5' Minute Series Quad. Name *Saint James, New York* (1967)
For Office Use Only--UTM Coordinates _____

9. Photography (optional for environmental impact survey):
Please submit a 5x7" black and white print(s) showing the current state of the site. Provide a label for the print(s) on a separate sheet. (see report)

10. Eligibility Discussion
A. X Property appears NR/SR eligible.
Identify relevant theme: _____
Existence of relevant context: ___yes ___no
Discuss: prehistoric inland site in coastal New York

B. Specific Criteria for Eligibility:
Criteria A.___ Associated with events that have made a significant contribution to the broad patterns of our history.
Criteria B.___ Associated with the lives of persons significant in our past.
Criteria C.___ Embodies the distinct characteristics of a type, period, or method of construction; or represents a significant and distinguishable entity whose components may lack individual distinction; or
Criteria D. X Have yielded, or may be likely to yield, information important in prehistory or history.

3. Discussion (Provide a brief paragraph summarizing site)

The prehistoric site is located in Head of the Harbor, Town of Smithtown, Suffolk County, New York. It is located at the intersection of Mills Pond Road and New York State Route 25A. Evidence of prehistoric activity was recovered on the north side of NYS Route 25A, as well as east and west of Mills Pond Road on the south side of NYS Route 25A. Testing at this location resulted in the recovery of quartz cores, flakes, and block/shatter, chert bifaces, and fire-cracked rock. No features were encountered.

This site has the potential to yield information important to the understanding of prehistoric activity in interior Long Island. The site is best described as a limited use site in close proximity to an inland pond. Mills Pond was probably larger in the past, as there is geological and topographic evidence of filling and grading along the two adjacent roadways. Further examination to determine the boundaries of the site and the identification of possible features would lead to a better understanding activities at inland sites.

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

For Office Use Only--Site Identifier NYSM 11236
Project Identifier PIN 0327.95.101 Date January 2002
Your Name Linda E. Barber Phone (631) 632-7618
Address Dept. of Anthropology, SUNY-Stony Brook
Stony Brook, New York
Zip 11794-4364
Organization (if any) Institute for Long Island Archaeology

1. Site Identifier(s) B. Bailey Site

2. County Suffolk
One of following: City
Township Brookhaven
Incorporated Village Head of the Harbor (MCD 10345)
Unincorporated Village or Hamlet

3. Present Owner Gyrodyne Flowerfield
Address Mills Pond Road
St. James, New York
Zip 11780

4. Site Description (check all appropriate categories): Structure/site
Superstructure: complete___ partial___ collapsed___ not evident X
Foundation: above___ below___ (ground level) not evident X
Structural subdivisions apparent: Only surface traces visible___ Buried traces detected___

List construction materials (be as specific as possible):
window glass, cut nails, brick fragments, mortar, asphalt, and shingle

Grounds: Under cultivation___ Sustaining erosion___ Woodland X Upland___
Never cultivated___ Previously cultivated X Floodplain___ Pastureland___
Soil Drainage: excellent___ good___ fair X poor___
Slope: flat___ gentle X moderate___ steep___
Distance to nearest water from structure (approx.) 100 m Elevation: 43 m

5. Site Investigation (append additional sheets, if necessary):
Surface--date(s) August 2001
Site Map (Submit with form) see report
Collection
Subsurface--date(s) August-November 2001
Testing: shovel X coring___ other ___ unit size 50cm dia.x 60cm deep no. of units 70
Excavation: unit size ___ no. of units
Investigator Linda Barber, Ph.D.; Michael Lenardi, M.A.

Manuscript or published report(s)(reference fully): Barber, Linda E. (2002): *A Cultural Resources Survey Report of PIN 0327.95.101 New York State Route 25A at Mills Pond Road, Head of the Harbor, Town of Smithtown, Suffolk County, New York.* Prepared for the New York State Museum, State Education Department by the Institute for Long Island Archaeology, SUNY Stony Brook.
Present repository of materials Institute for Long Island Archaeology, SUNY Stony Brook

6. Site inventory:
a. date constructed or occupation period pre-1858
b. previous owners, if known B.B. Bailey (1858 map); B. Bailey (1873 map)
c. modifications, if known:

7. Site documentation (append additional sheets, if necessary):
a. Historic maps
1) Name B.B. Bailey Date 1858 Source Chace *Map of Suffolk County, New York*
Present location of original, if known New York State Museum
2) Name B Bailey Date 1873 Source Beers *Atlas of Long Island, New York*
Present location of original, if known New York State Museum
b. Representation in existing photography
1) Photo date _____ Where located _____
c. Primary and secondary source documentation (reference fully):
d. Persons with memory of site: none

8. List of material remains other than those used in construction (be as specific as possible in identifying object and material):

Artifacts found in 44 of 70 shovel test pits excavated in the 0.36 hectare area south of New York State Route 25A and east of Mills Pond Road. Euro-American material includes bottle glass, creamware, pearlware, whiteware, ironstone, redware, porcelain, earthenware tile, ball clay pipe stem fragments, bone, hard and soft shell clam, oyster, coal, slag, brass furniture ornament and rubber fragment.

If prehistoric materials are evident, check here and fill out prehistoric site form. X (see Mills Pond site)

9. Map References: Map or maps showing exact location and extent of site must accompany this form and must be identified by source and date.
USGS 7.5' Minute Series Quad. Name *Saint James, New York* (1967)
For Office Use Only--UTM Coordinates _____

10. Photography (optional for environmental impact survey): see report

11. Eligibility Discussion
A. X Property appears NR/SR eligible.
Identify relevant theme: _____
Existence of relevant context: ___yes ___no
Discuss: nineteenth century domestic site

B. Specific Criteria for Eligibility:
Criteria A.___ Associated with events that have made a significant contribution to the broad patterns of our history.
Criteria B.___ Associated with the lives of persons significant in our past.
Criteria C.___ Embodies the distinct characteristics of a type, period, or method of construction; or represents a significant and distinguishable entity whose components may lack individual distinction; or
Criteria D. X Have yielded, or may be likely to yield, information important in prehistory or history.

C. Discussion (Provide a brief paragraph summarizing site)

Architectural debris and domestic refuse dating to the nineteenth and early twentieth centuries were recovered. The cultural materials were concentrated in an area identified on two nineteenth century maps as containing the residence of B. Bailey. Archival evidence indicates that the residence was part of a small rural historic community clustered around Mills Pond. The site is within the bounds of the National Register listed Mills Pond Historic District (90NR1882).

STAGE 2 ARCHAEOLOGICAL EVALUATIONS

for the

GYRODYNE COMPANY OF AMERICA

PROPERTY IN SMITHTOWN

ST. JAMES, TOWN OF SMITHTOWN

SUFFOLK COUNTY, NEW YORK

SITE NUMBERS: A10345.000117 (PREHISTORIC)
AND
A10345.000118 (HISTORIC)

PROJECT ARCHAEOLOGIST AND CONTRIBUTORS:

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Michael J. Lenardi, M.A., R.P.A.
Daria E. Merwin, M.A., R.P.A.

The Institute for Long Island Archaeology
Department of Anthropology
State University of New York at Stony Brook
Stony Brook, New York 11794-4364

May 2003

MANAGEMENT SUMMARY

This report presents the results of two Stage 2 archaeological evaluations undertaken on the Gyrodyne Company of America property in the Town of Smithtown, Suffolk County, New York by the Institute for Long Island Archaeology (ILIA) of the State University of New York at Stony Brook. The two sites were initially identified during two Stage 1 surveys performed by ILIA in 2002. The first survey was conducted in April 2002 for the New York State Department of Transportation who is considering improvements to New York State Route 25A on the northern boundary of the Gyrodyne property. The second was performed for the Gyrodyne Company of America. A survey of the Town of Brookhaven portion of the Gyrodyne property was performed in 1998 by Jo-Ann McLean. No significant archaeological sites were identified on this parcel. Accordingly, this report deals only with the two sites identified on the Smithtown section of the Gyrodyne property. These archaeological sites are known as the Mills Pond prehistoric site (NYSM 11237, OPRHP A10345.000117) and the Mills-Smith House historic site (formerly reported as the B. Bailey site; NYSM 11236, OPRHP A10345.000118).

Two survey techniques were used for the site evaluations. A remote sensing survey using ground penetrating radar (GPR) was undertaken to search for buried archaeological features. In addition, a total of 12 1 x 1 meter excavation units was dug.

The portion of the Mills Pond prehistoric site within the Gyrodyne property does not appear to be eligible for listing on the State or National Register of Historic Places. Only 64 lithic artifacts were recovered during the two stages of archaeological investigations (16 pieces found during the Stage 1 survey, 48 from the Stage 2). All of these were found in plowed or otherwise disturbed soils. No further archaeological work is recommended for the prehistoric site.

Although most of the 7,580 historic period artifacts were also found within plowed and disturbed soils, an intact portion of the Mills-Smith house, a stairway, was found during the Stage 2 investigation. The location of this slate and brick feature probably marks the former main entrance of the Mills-Smith house. Intact cellar deposits may exist adjacent to the stairway feature. The Mills-Smith house site appears to be eligible for listing on the National Register of Historic Places. The site is within the bounds of, and is historically associated with, the National Register of Historic Places listed Mills Pond Historic District (90NR1882). Additional work at the Mills-Smith house site could potentially enhance the understanding of rural nineteenth century lifeways on eastern Long Island.

Due to the research potential of the Mills-Smith site, it is recommended that a mitigation plan be developed for a portion of the Gyrodyne property. As outlined in the *Standards for Cultural Resource Investigations in New York State*, mitigation may take the form of avoidance through project redesign (i.e., avoidance) or data recovery (Stage 3 excavations) prior to construction. If avoidance is not possible, then data recovery will be necessary to study the site before its eventual destruction.

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INTRODUCTION

This report presents the results of a Stage 2 archaeological site evaluation performed on the Gyrodyne Company of America property in the hamlet of St. James, Town of Smithtown, Suffolk County, New York (Figures 1 and 2). The study was conducted by the Institute for Long Island Archaeology at the State University of New York at Stony Brook. The project area is located just south of New York State Route 25A (North Country Road) and east of Mills Pond Road (Figures 2 and 3).

Stage 1 Survey Results

The two archaeological sites treated in this report were identified during Stage 1 archaeological surveys performed by the Institute for Long Island Archaeology. The first survey was conducted in April 2002 for the New York State Department of Transportation who is considering improvements to New York State Route 25A (PIN 0327.95.101)(Barber 2002). The second was performed for the Gyrodyne Company of America, the owners of the property containing the two sites (Bernstein and Merwin 2002; Bernstein et al. 2002). The Stage 1 reports detailing the results of these two surveys should be consulted for background information on project area.

A survey of the Town of Brookhaven portion of the Gyrodyne property was performed in 1998 by Jo-Ann McLean (McLean 1998a,

1998b). No significant archaeological sites were identified on this parcel. Accordingly, this report deals only with the two sites encountered on the Smithtown section of the Gyrodyne property. These archaeological sites are known as the Mills Pond prehistoric site (New York State Museum [NYSM] 11237, New York State Office of Parks, Recreation, and Historic Preservation [OPRHP] A10345.000117) and the Mills-Smith House historic site (formerly reported as the B. Bailey site; NYSM 11236, OPRHP A10345.000118).

Based on the results of the Stage 1 surveys, a site evaluation (Stage 2) was recommended for the identified sites (historic and prehistoric) on the Smithtown portion of the Gyrodyne property (Bernstein et al. 2002). A plan for the site evaluation was forwarded to the New York State Office of Parks, Recreation and Historic Preservation for comments and approval in October 2002, and after some minor modifications, was approved in November of the same year (Appendix A). The plan, as approved, provides the methodology for the study described in this report. Both of the archaeological evaluations were undertaken in accordance with the guidelines outlined in the *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections* issued by the New York Archaeological Council and the New York State Office of Parks, Recreation, and Historic Preservation (1995).

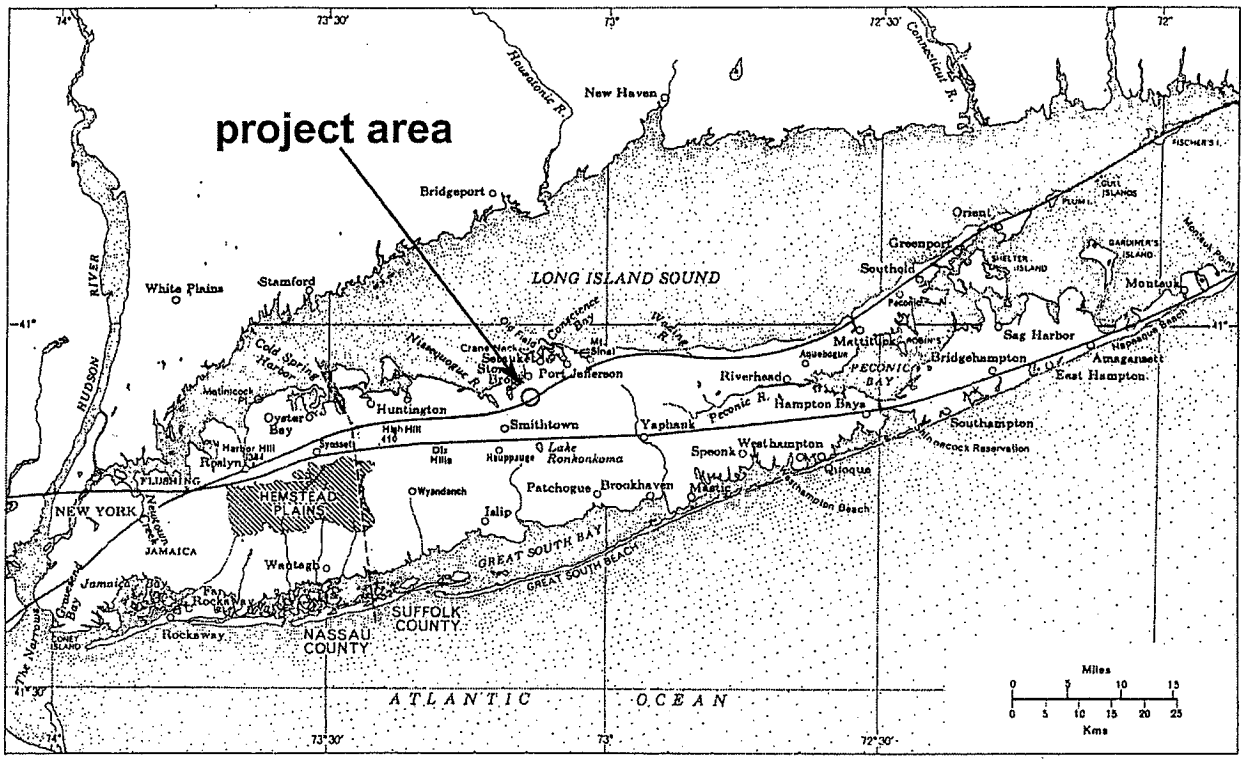

Figure 1. Map of Long Island showing location of the project area.

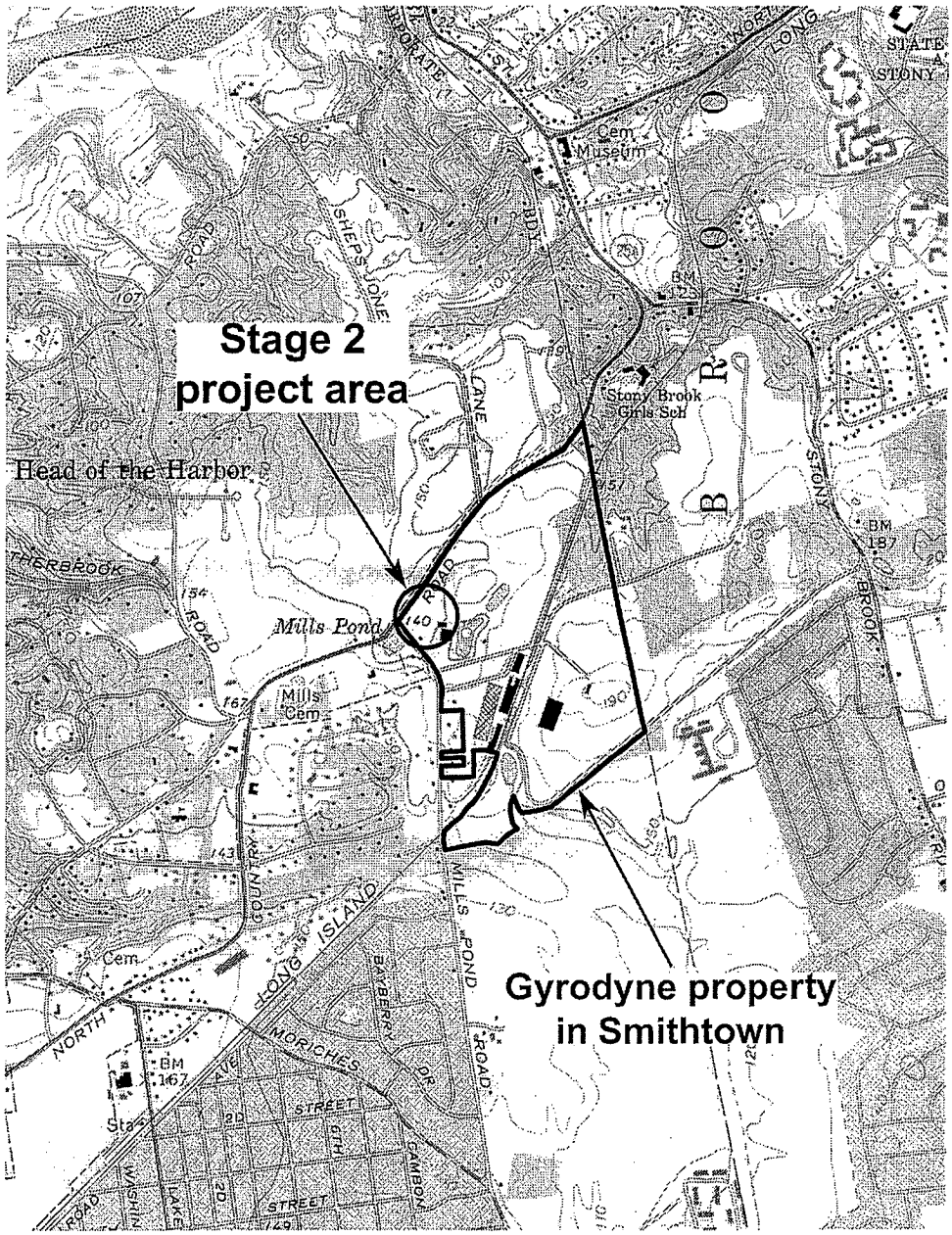

Figure 2. 1967/1979 USGS topographic map, *Saint James, New York* (7.5 minute series) showing the location of the project area (scale = 1:24,000).

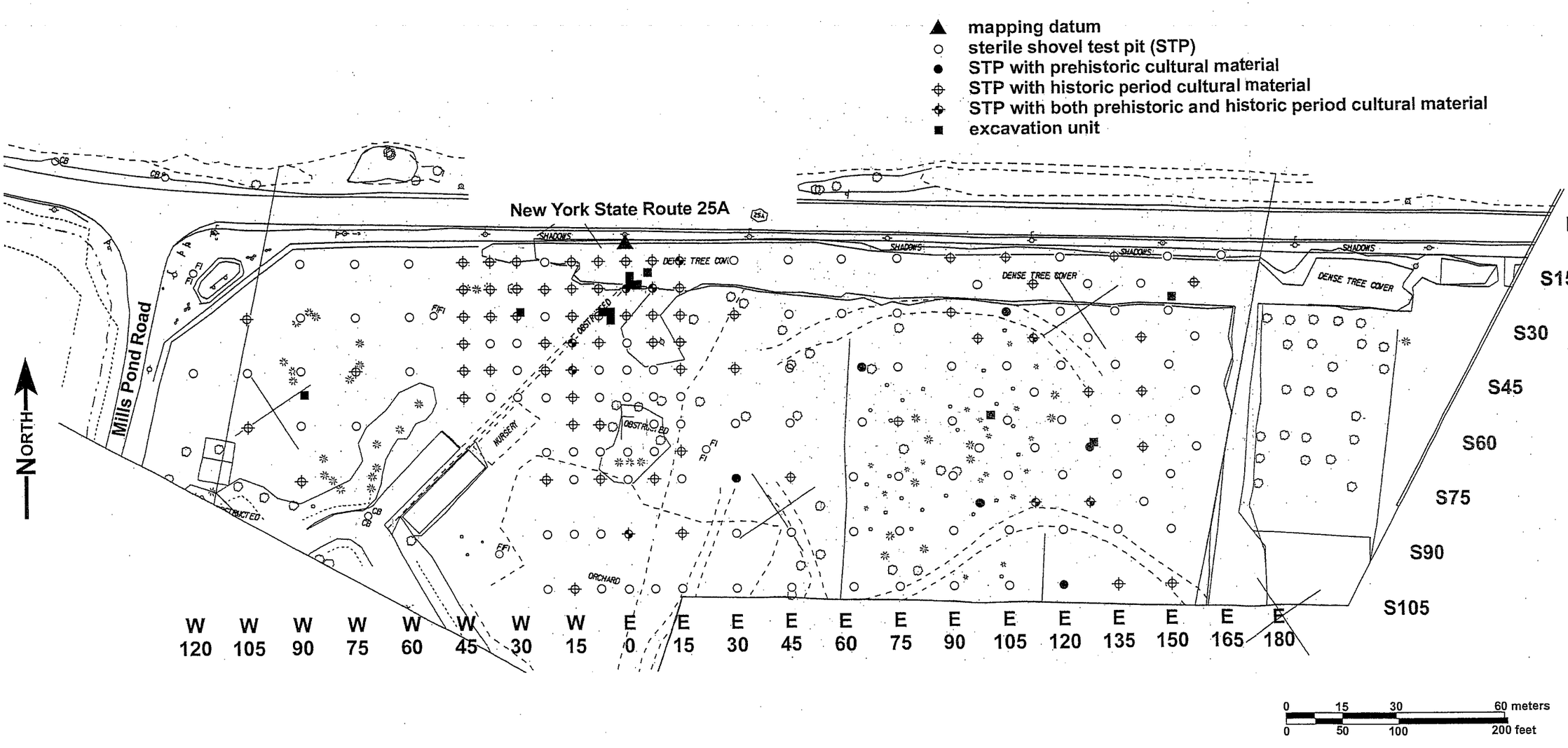

Figure 3. Archaeological investigations on the Gyrodyne property in Smithtown.

Stage 2 Evaluation

Stage 2 evaluations such as this one are designed to accomplish the following objectives:

1. Define the spatial boundaries of cultural materials identified during the Stage 1 survey.

2. Evaluate the eligibility for inclusion on the National Register of Historic Places of any identified sites.

Criteria for inclusion on the National Register are the following (National Park Service 1982):

> A. the property is associated with events that have made a significant contribution to the broad patterns of our history; or
>
> B. the property is associated with the lives of persons significant in our past; or
>
> C. the property embodies the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
>
> D. the property has yielded, or may be likely to yield, information important in prehistory or history.

It is Criterion D that is most often applied to the evaluation of archaeological sites.

Although the historic and prehistoric period archaeological sites overlap spatially, separate approaches were employed to meet the goals of the Stage 2 evaluation for each site. Therefore, excavation and analysis methods and results for the two sites are described in separate chapters below.

THE MILLS-SMITH HOUSE HISTORIC SITE (A10345.000118)

Summary of Stage 1 Results

The historic period site was first encountered in the northwest corner of the Gyrodyne property during the 2001 archaeological survey performed for the New York State Department of Transportation (Barber 2002). The site was initially believed to be the remains of the map documented B. Bailey house. However, as detailed below, the work done as part of the Stage 2 evaluation indicates that it is more likely the remnants of the nineteenth century Mills-Smith House. The Mills-Smith house was part of a small rural nineteenth century community clustered around Mills Pond, just west of the Gyrodyne property. The house formerly fronted on New York State Route 25A (North Country Road), which was the most important east-west thoroughfare on the north shore of Long Island starting in the early eighteenth century. The Mills-Smith house site is within the boundaries of, and potentially may be considered a contributing component to, the National Register listed Mills Pond Historic District (90NR1882).

During the Stage 1 surveys a mixture of architectural debris and household refuse was recovered at the Mills-Smith house site. The majority of the artifacts date to the nineteenth century, and included square cut nails (nineteenth century), ball clay smoking pipe fragments (mid-eighteenth through late nineteenth century), creamware (1770-1820), pearlware (1780-1840), and whiteware

(1820-1900+), window and bottle glass, soft and hard shell clam, oyster, brick, coal, and slag. Virtually all of the historic period artifacts were found in the plow zone or in soils disturbed by other earth-moving activities. A possible feature associated with the demolition of the house (consisting of lenses of brick rubble and shell) was encountered in STP S22.5/W7.5 (Barber 2002). This feature was further investigated with the Stage 2 site evaluation.

Stage 2 Methodology

As discussed above, the purpose of a Stage 2 evaluation is to provide data adequate to allow a determination of a site's eligibility to the National Register of Historic Places. Included in a Stage 2 study are information on site boundaries, integrity, and an assessment of its significance.

The boundaries of the historic site were established with the excavation of numerous shovel test pits during the Stage 1 surveys (Barber 2002; Bernstein et al. 2002). Therefore, the archaeological field work conducted for the Stage 2 served primarily to provide the information necessary to evaluate the significance of the site and its potential to yield information useful for understanding nineteenth century rural domestic lifeways. In addition, it was necessary to determine its eligibility for the National Register based on its location within, and association with the historic context of, the listed Mills Pond Historic District (90NR1882).

Two general procedures were used in the site evaluation at the Mills-Smith house site. The first employed ground penetrating radar (GPR) and the second involved subsurface investigation with eight 1 x 1 meter (3.3 x 3.3 foot) square excavation units.

Ground Penetrating Radar. At the outset of Stage 2 field work, GPR was used to search for subsurface features at the Mills-Smith house historic period site. As the site is in a flat area with low vegetation and few trees, remote sensing procedures could be utilized to search for buried features. This work was directed by Dr. Daniel Davis of the Geosciences Department at the State University of New York at Stony Brook, and is documented in his detailed report provided in Appendix B.

The GPR survey was conducted using monostatic shielded antennas mounted on a cart and controlled by a RAMAC CU-II unit, with real-time output displayed on a laptop computer (Plate 1). Over eight kilometers (five miles) of radar data were collected using two different radar frequencies. A 500 MHz antenna was used in an area measuring roughly 160 meters (525 feet) east-west by 95 meters (312 feet) north-south (Figure 1 in Appendix B). The 500 MHz antenna has a depth penetration of at least three meters (10 feet), and under optimal conditions can detect subsurface objects larger than five centimeters (two inches). Transects using the 500 MHz antenna were spaced 2.5 meters (8.2 feet) apart. An 800 MHz antenna (with a depth penetration of

Plate 1. Ground penetrating radar survey conducted for the Stage 2 archaeological investigations on the northwest corner of the Gyrodyne property. View is north.

roughly two meters [6.5 feet] and optimal resolution of about three centimeters [1.2 inches]) was used along one meter (3.3 foot) transects in an area of interest identified with the lower-resolution 500 MHz antenna (Figure 2 in Appendix B). This area is located between grid coordinates N0 and S30, and between W40 and E20.

The most significant class of target identified during the GPR survey consists of a "prominent depressed reflection zone" found in this area of interest (see Figure 5 in Appendix B). As described below, the target was explored with four 1 x 1 meter excavation units. An intact architectural feature of the nineteenth century Mills-Smith house and a debris field probably associated with house demolition were found.

A large number of radar hyperbolae (subsurface contacts that reflect the radar signal) were encountered throughout the survey area (Figures 1 and 2 in Appendix B). The depth and size of most of these hyberbolae are suggestive of isolated cobbles, and are typical of GPR data collected on Long Island. Ground-truthing by excavation confirmed the presence of cobbles in the subsoil at locations with hyperbolae. Other non-cultural features detected by the GPR include soil strata (Appendix B).

Excavation Units. The second procedure used at the historic period Mills-Smith house site was the excavation of 1 x 1 meter (3.3 x 3.3 foot) square units. These units were placed based on an examination of nineteenth century maps (Barber 2002; Bernstein and Merwin 2002), the results of the GPR survey (Appendix B), and the content of shovel test pits dug during the Stage 1 investigation (Appendix C). Excavation units are identified by the metric grid coordinates of the southwest corner of each 1 x 1 meter square. The Stage 2 examination entailed the excavation of eight units in and around the Mills-Smith house site: S12/E5, S14/E0, S15/E0, S15/E1, S22.5/W30, S22.5/W8.5, S22.5/W7.5, and S23.5/W7.5 (Figure 3). In addition, four 1 x 1 meter units were dug to investigate the prehistoric deposit on the Gyrodyne property (S20/E150, S45/W90, S52.5/E100, and S60/E127.5 [Figure 3 and prehistoric site discussion, below]). Although these two groups of excavation units were placed to examine the separate archaeological sites, methods and data from both groups are

generally relevant to each of the two archaeological sites. The 1 x 1 meter excavation units, placed individually and grouped to form blocks, allow analysis of a large sample of cultural material and permit the discovery and study of stratigraphic associations, patterns of artifact distribution, and features.

Units were generally excavated in 10 centimeter arbitrary levels within natural and cultural stratigraphic horizons (A0/A1, old plow zone, B2). Exceptions occurred when the recent plow zone and other modern disturbed sediments were excavated, when natural stratigraphic layers were less than 10 centimeters thick, when surfaces were cleaned to look for features, or when the end of a natural stratigraphic break was approaching.

Plate 2. Mapping the brick and field stone feature in excavation unit S14/E0, looking southeast.

Excavation was accomplished by shovel skimming and troweling. All sediment was passed through 0.25 inch (6 millimeter) mesh screens. Excavation information for each level was recorded on standardized forms. Soil profiles were drawn and photographed for each unit, as were plan views of features (Plate 2). Soil and artifact data for each 1 x 1 meter square, along with shovel test pit data from the Stage 1 investigation, are presented in Appendix C.

Laboratory Methods. The specific procedures used to analyze the prehistoric artifacts are discussed below in the section on the Mills Pond prehistoric site. All of the recovered materials were cleaned, cataloged, and recorded in a computerized database which is included in this report as Appendix C.

Historic period artifacts were identified and classified using a number of standard manuals (e.g., Noël Hume 1970). Shellfish remains are sorted by species and quantified by the minimum number of individuals (MNI) rather than fragment count (cf., Bernstein 1993; Mason et al. 1998).

Most artifacts were cataloged by material, ware type or color, and then by function where possible. In cases where several fragments of a single vessel were found in one level, the item was identified as a single artifact (e.g., one broken glass bottle). In general, glass artifacts were identified as bottle and/or jar fragments, tableware (stemware, hollowware, etc.), lamp chimney fragments, buttons, and window glass. The terms

curved and flat were used for glass shards where original form could not be determined.

Ceramic food preparation and serving pieces were cataloged by ware type: slipware (late eighteenth century), creamware (1770-1820), pearlware (1780-1840), whiteware (1820-1900+), redware (pre-1850), salt glazed stoneware (late eighteenth through early twentieth century), and porcelain (nineteenth through early twentieth century). The term ironstone is used here for highly fired, thick paste, white bodied tablewares (also known as white granite) dating between roughly 1850 and 1890 (Miller 1993).

RESULTS

Eight 1 x 1 meter square units were excavated to investigate the historic period Mills-Smith house site. Two of these units were dug as individual 1 x 1 meter squares, while the others were dug in L-shaped blocks of three 1 x 1 meter squares (Figure 3). An inventory of all recovered cultural material, along with stratigraphic information for each 1 x 1 meter square excavation unit, is given in Appendix C of this report. Historic period artifacts are summarized in Table 1.

S22.5/W30

This 1 x 1 meter excavation unit was placed to the west of the densest area of the historic period site in order to sample the former side yard of the nineteenth century Mills-Smith house. No significant targets were encountered during the GPR survey at this location, and the Stage 1 shovel test pit dug here yielded bottle glass, ceramic tableware fragments, brick, metal, and shell in the plow zone (Appendix C).

Soils in S22.5/W30 consisted of a topsoil (A0/A1 horizon), underlain by a recent plow zone, then disturbed soils, and the subsoil (B2 horizon) (Figure 4). No features were encountered. Most of the cultural material recovered from this 1 x 1 meter unit was found in the plowed and otherwise disturbed soils. Nineteenth century artifacts include beverage bottle glass,

remains of food preparation and serving vessels (glass hollowware, creamware, pearlware, whiteware, ironstone, Rockingham, redware, porcelain, stoneware), food remains (shell, animal bones), household debris (lamp glass, porcelain doll, coal, slag), and architectural debris (window glass, brick). Modern refuse (soft drink bottle glass, plastic, styrofoam) was found into the subsoil (Appendix C).

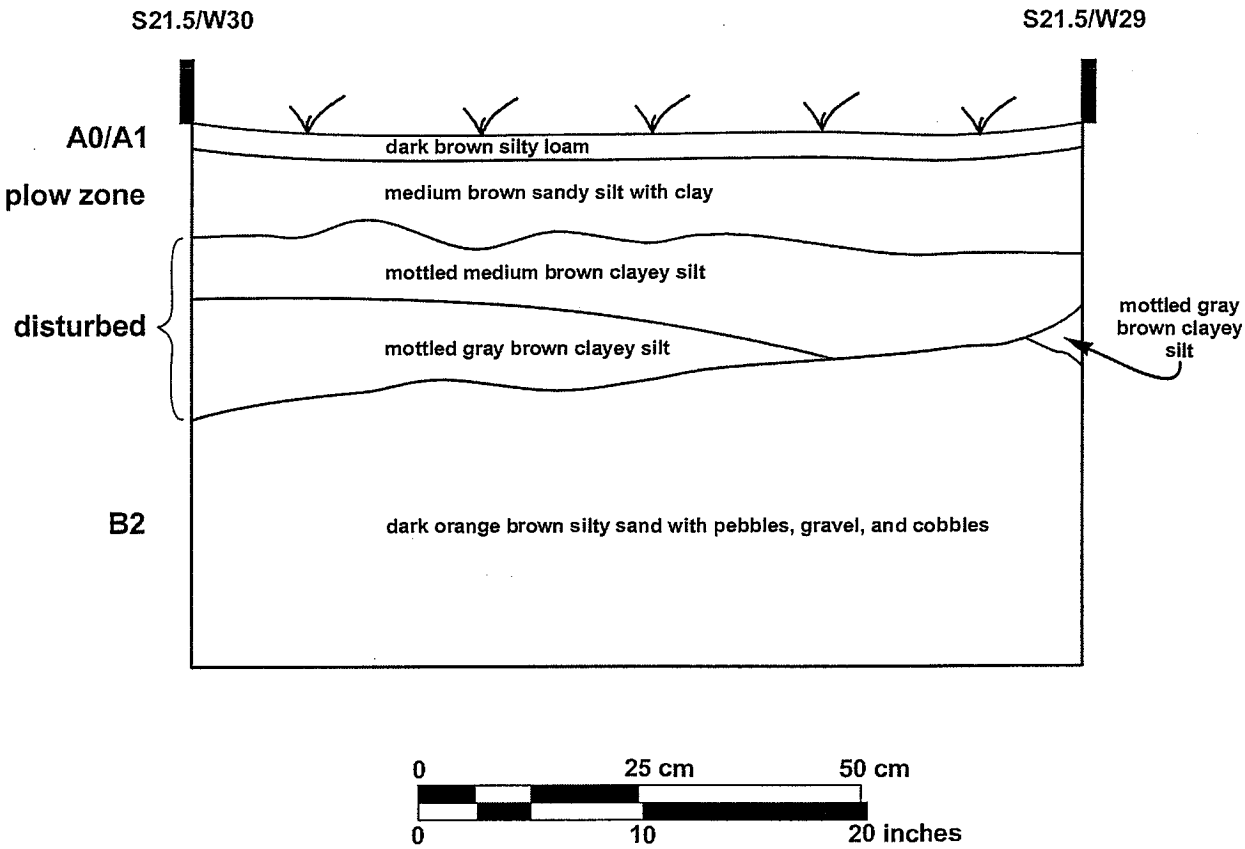

Figure 4. North wall profile drawing of 1 x 1 meter unit S22.5/W30.

S22.5/W8.5, S22.5/W7.5, and S23.5/W7.5

These three 1 x 1 meter excavation units were placed to examine a possible feature (a lens of brick and shell) encountered during the original Stage 1 survey (Barber 2002:26). Stratigraphy in S22.5/W8.5, S22.5/W7.5, and S23.5/W7.5 consists of the topsoil, approximately 60 centimeters (24 inches) of well-defined bands of anthropogenically-modified soils, and the B2 subsoil (Figures 5 and 6). The majority of artifacts from this block of excavation units were found in modified soils (Appendix C), which from top to bottom generally consist of a recent plow zone, three layers of disturbed soil (including a band of densely packed whole and fragmented bricks, probably associated with building demolition), and an old plow zone.

Artifacts from S22.5/W8.5, S22.5/W7.5, and S23.5/W7.5 are similar to those described for S22.5/W30, above. Other finds include personal items such as buttons, a small porcelain female figurine or doll, a blade from a pocket knife, and ball clay smoking pipe fragments.

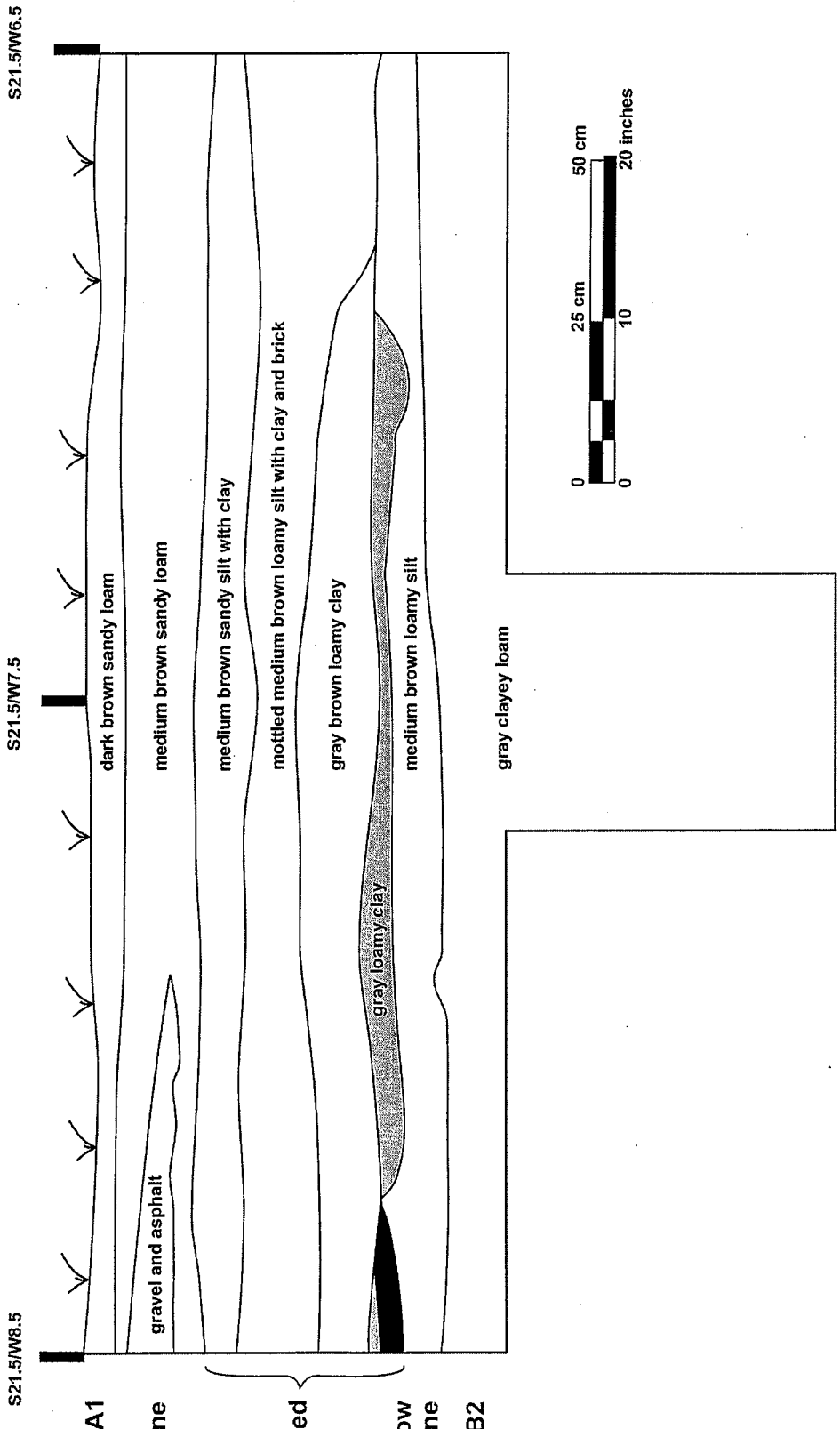

Figure 5. North wall profile drawing of 1 x 1 meter excavation units S22.5/W8.5 and S22.5/W7.5.

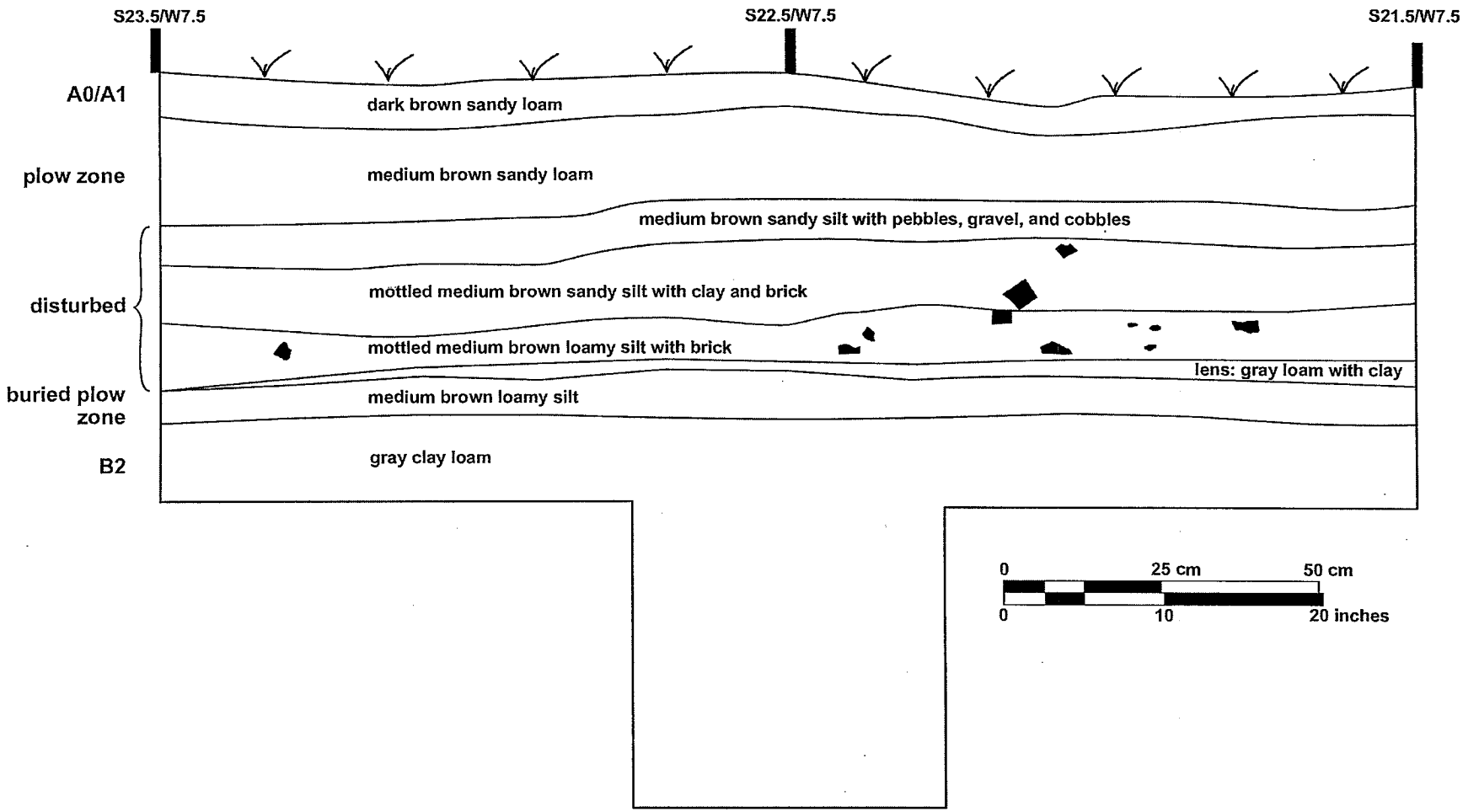

Figure 6. West wall profile drawing of 1 x 1 meter excavation units S22.5/W7.5 and S23.5/W7.5.

S14/E0, S15/E0, and S15/E1

This block of three 1 x 1 meter units was excavated in an area characterized during the GPR survey as a "prominent depressed reflection zone" (Appendix B). Excavation at this location demonstrated that the radar was reflected by architectural materials, including field stone, brick, and slate slabs (Plate 3).

Soil strata in S14/E0, S15/E0, and S15/E1 are similar to those encountered elsewhere around the map documented location of the nineteenth century Mills-Smith house: topsoil (A0/A1 horizon) is underlain by a recent plow zone, which is followed by disturbed soils (Figure 7). Here it is clear that the disturbed layers are associated with building demolition, filling, and grading. Beneath the disturbed soil layers is an intact architectural feature: a stairway of finished slate treads (8 centimeters [3 inches] thick) and brick risers (Plate 3; Figures 7 and 8). The stairway probably marks the position of the front entrance to the Mills-Smith house. A 60 centimeter (24 inch) wide feature of field stone, brick, and disintegrated mortar located between S15/E0 and S15/E1 (Plate 3; Figure 8) may be a collapsed cellar wall.

Artifacts found in this block are typical of other nearby excavation units, and include items associated with preparation and consumption of food and drink (ceramic cooking and tablewares [mostly creamware, pearlware, whiteware, and porcelain, with smaller amounts of ironstone, salt glazed stoneware, and

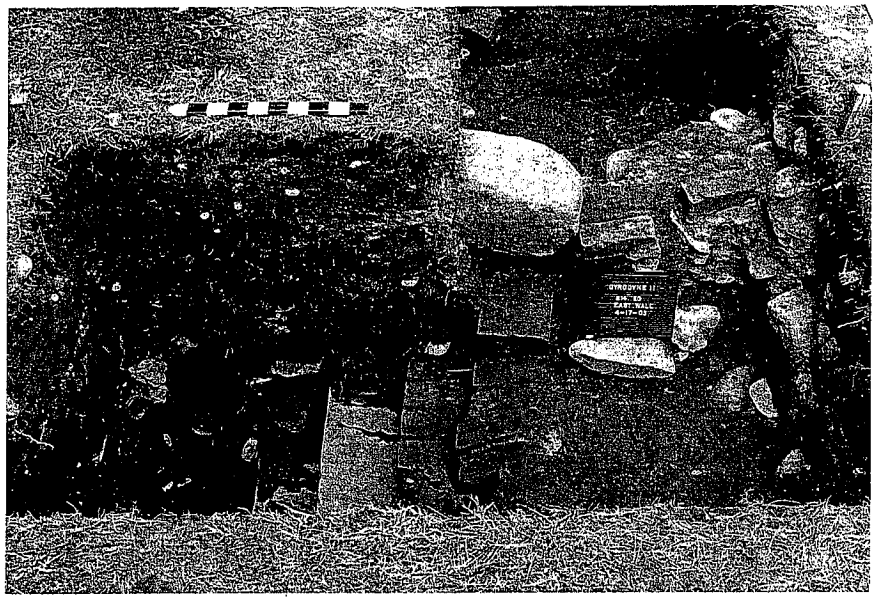

Plate 3. View east of 1 x 1 meter units S14/E0, S15/E0, and S15/E1. Note the intact stairway leading up from left to center. The front door of the building, the nineteenth century Mills-Smith house, was probably near the sign board in this photograph.

redware], glass wine and other beverage bottles, glass hollowware and stemware, animal bones and shell), personal items (buttons, toy porcelain creamer lid, glass perfume bottle, clay smoking pipe fragments), household items (including chimney glass and a brass wick assembly from at least one oil lamp), hardware and other metal pieces (saw blade, horseshoe, metal can fragments) coal, slag, and architectural remains (brick, mortar, field stone, window glass, nails, slate tile, and burned dimensional lumber) (Appendix C).

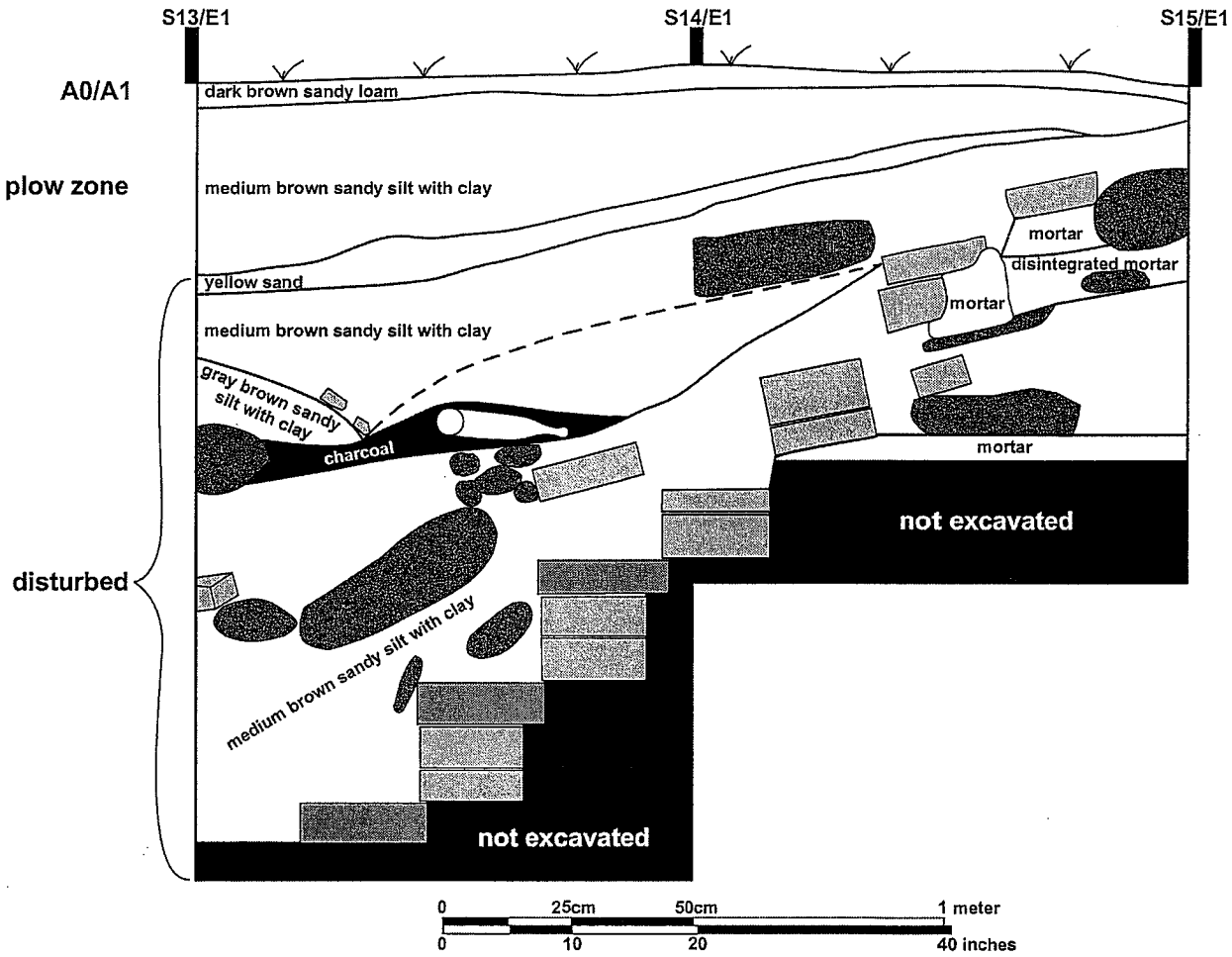

Figure 7. East wall profile drawing of 1 x 1 meter excavation units S14/E0 and S15/E0 showing the intact stairway.

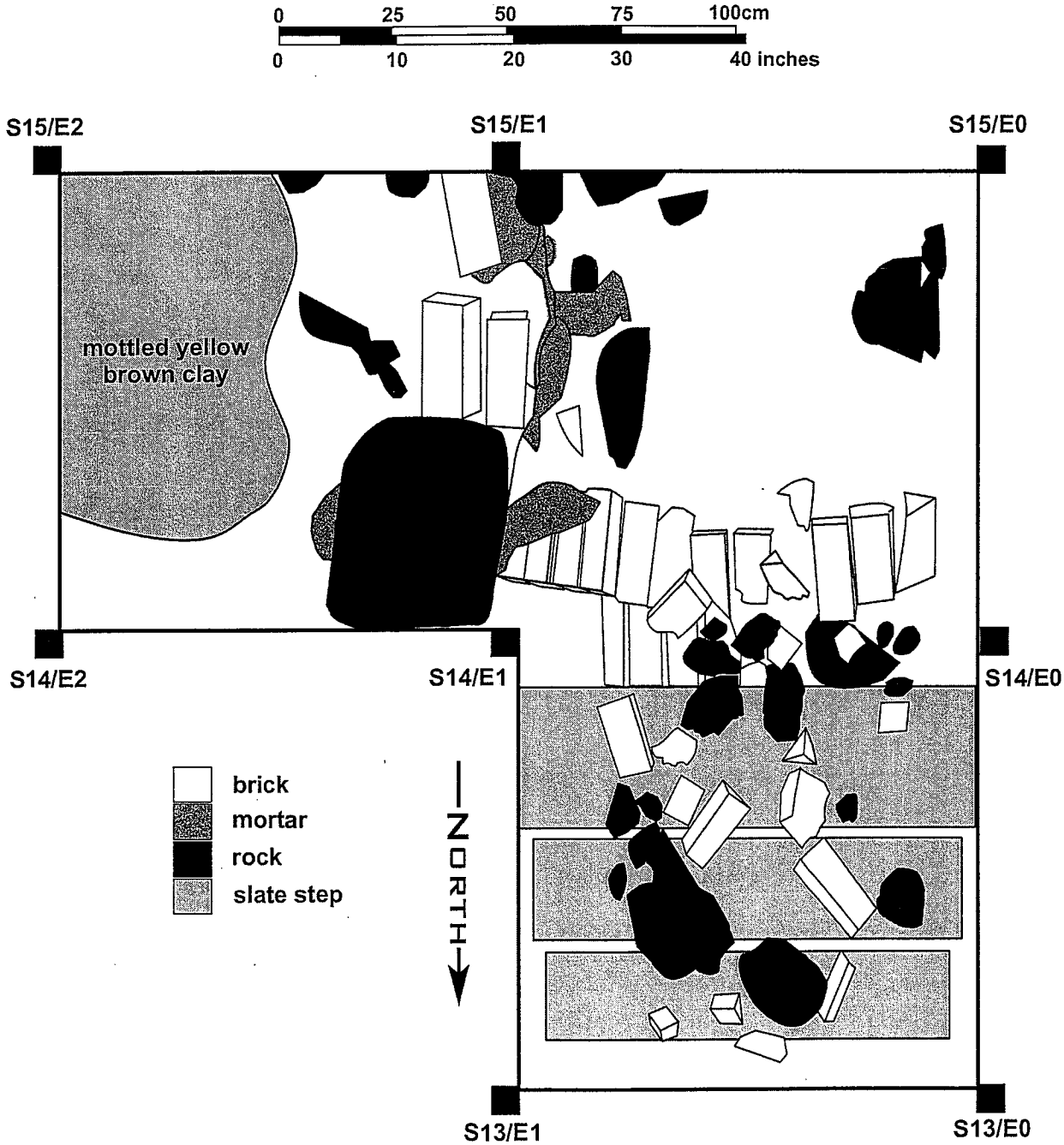

Figure 8. Plan view drawing of 1 x 1 meter units S14/E0, S15/E0, and S15/E1 showing architectural features (stairway in S14/E0 and possible collapsed wall between S15/E0 and S15/E1).

S12/E5

This 1 x 1 meter units was also excavated in the "prominent depressed reflection zone" identified by the GPR survey (Appendix B). The reflectors in S12/E5 consisted of mid-twentieth century debris (including several beer cans, a truck tire, modern ceramic plates and a teapot, and whole glass bottles) densely packed in a thick deposit of disturbed soils (Plate 4; Figure 9). A light density of nineteenth century artifacts was mixed with the mid-twentieth century refuse, including creamware, pearlware, printed whiteware, and square cut nails (Appendix C). In addition, building debris was found throughout S12/E5 (brick, mortar, window glass, nails and other hardware, burned pieces of lumber, tar shingles [Appendix C]).

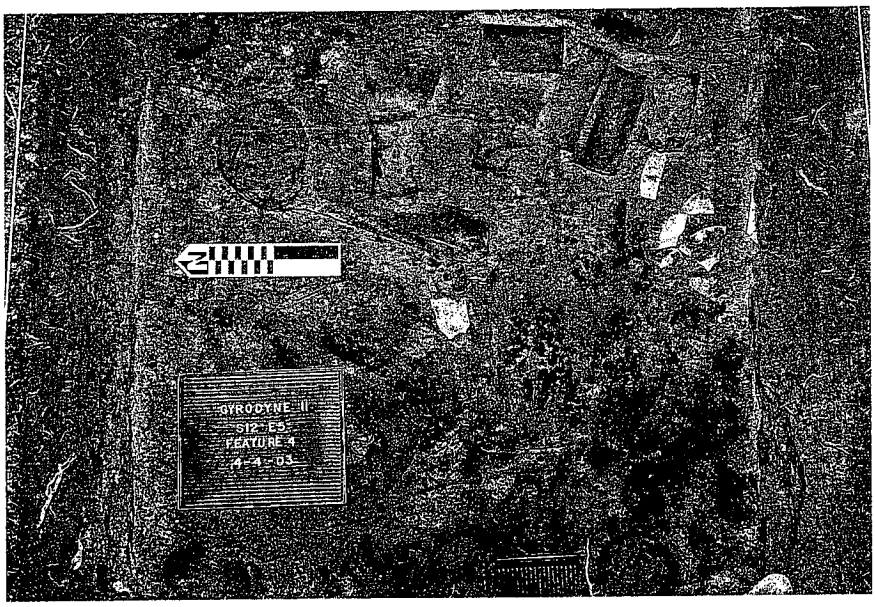

Plate 4. Plan view of densely packed debris layer in 1 x 1 meter unit S12/E5, approximately 50 centimeters below ground surface. The debris includes (clockwise from upper left) a paint can, several beer cans, a broken plate, burned lumber, glass bakeware, and brick.

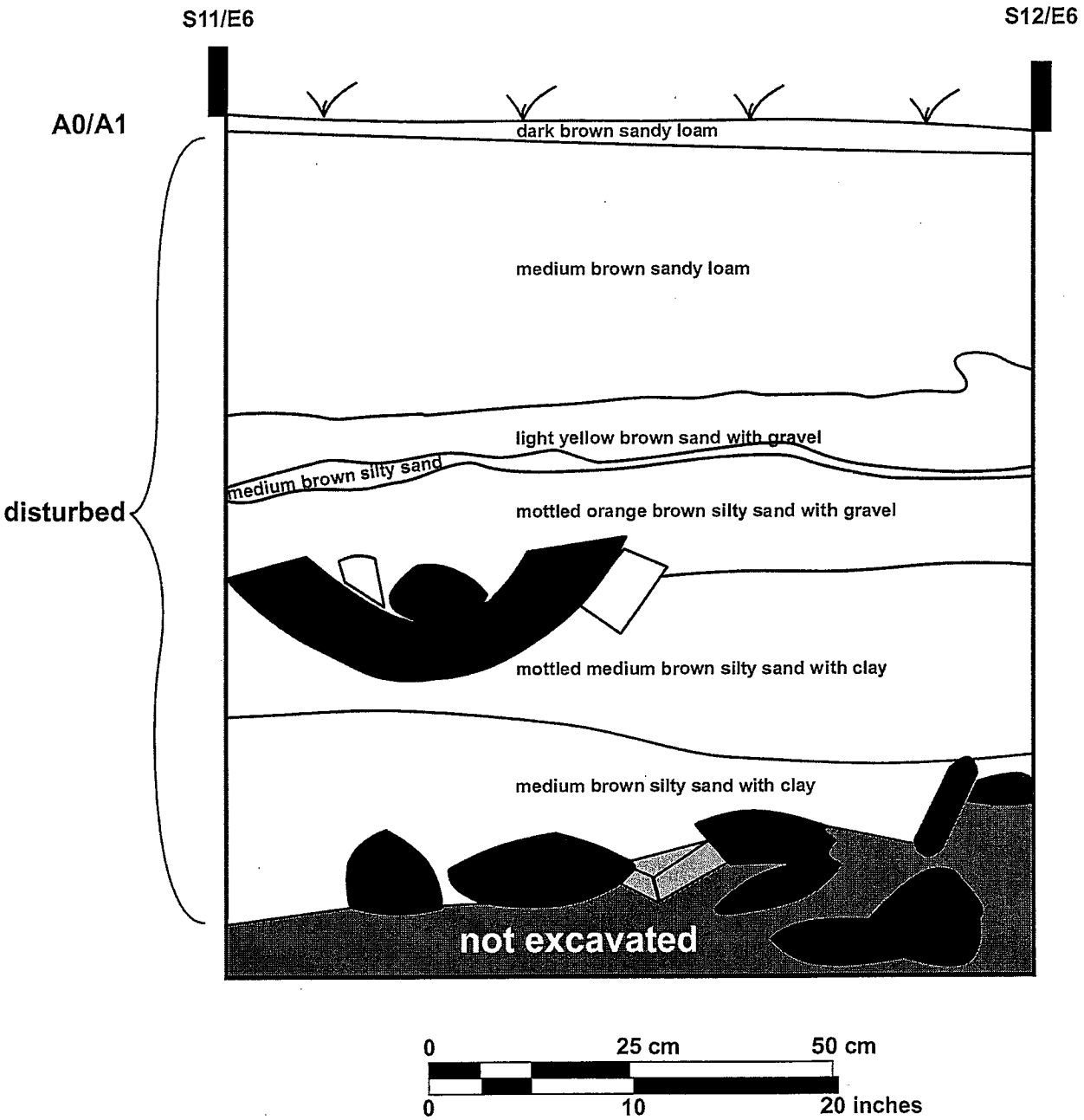

Figure 9. East wall profile drawing of 1 x 1 meter excavation unit S15/E5.

TABLE 1
HISTORIC PERIOD ARTIFACTS*

		Stage 1 STPS	Stage 2 Units	Total
glass	bottle, jar	6	772	778
	curved	27	191	218
	hollowware		24	24
	window	24	673	697
	flat	7	80	87
	lamp		106	106
	other	1	47	48
ceramics	creamware	2	46	48
	pearlware	18	39	57
	whiteware	48	151	199
	ironstone	4	274	278
	redware		19	19
	other earthenware	3	20	23
	stoneware	1	18	19
	porcelain tableware	2	38	40
	porcelain doll, button		6	6
	smoking pipe	1	14	15
	flowerpot	9	38	47
	brick	149	944	1093
metal	square cut nail	40	702	742
	wire nail	6	408	414
	unidentified nail		56	56
	other hardware		92	92
	utensil, grommet, button		13	13
	can fragments		1156	1156
	other	1	33	34
organic	animal bone	2	119	121
	shell (MNI)	21	218	239
	nutshell, peach pit		6	6
	leather, cloth, bone button		17	17
	burned wood		157	157
mineral	coal, slag	36	551	587
	mortar, slate, roof shingle	2	81	83
	other	7	54	61
total		417	7163	7580

*does not include obviously recent refuse

Discussion

The Stage 2 archaeological investigation of historic period resources on the Gyrodyne property revealed the presence of an intact architectural feature: a slate and brick stairway, presumably leading to the former main entrance of the Mills-Smith house. It is likely that intact cellar deposits associated with this map documented structure exist immediately to the south and west of 1 x 1 meter unit S15/E0.

As discussed above, the domestic site was initially identified as the remains of the B. Bailey house, based on the location of structures on the 1873 Beers *Atlas of Long Island*. However, historic period maps are not always entirely accurate. A re-evaluation of late eighteenth through mid-twentieth century maps, along with a consideration of the GPR and excavation results, suggests that the remains on the Gyrodyne property are those of the W.W. Mills-DuBois Smith house.

The date of this house is somewhat unclear, but is certainly pre-1858. The 1797 Howard *Survey of the Town of Smithtown* shows six buildings clustered around Mills Pond south of New York State Route 25A. This settlement pattern is unusual for early Suffolk County, where farmhouses typically followed linear patterns along major roads. Mills Pond Road is not depicted on the 1797 map, so it is unclear if any of the buildings were located within what is now the Gyrodyne property. The 1790 Federal Census lists seven Mills family households, with a total of 20 free white males, 10 free white females, 5 other free persons, and 15 slaves.

The next map to illustrate detailed man-made and natural features in the region is the 1838 US Coastal Survey. Several structures are shown clustered around Mills Pond, including buildings on the east side of Mills Pond Road within the Gyrodyne property. However, the location of the stairway encountered during the Stage 2 archaeological investigation appears to be in an orchard (though it is possible that one of the houses on the 1838 map is incorrectly plotted).

The 1858 Chace *Map of Suffolk County* depicts the B.B. Bailey house at the northwest corner of the Gyrodyne property and the W.W. Mills house just to the northeast (in the approximate area of S15/E0). The W.W. Mills house is subsequently shown on the 1873 Beers *Atlas of Long Island*, then belonging to DuBois Smith on the 1896 Hyde *Atlas of Long Island*, and as an unnamed structure on the 1904 USGS topographic map of *Setauket, New York* (15 minute series). No structures are shown on the 1909 Hyde *Atlas of Suffolk County*, the 1917 Hyde *Atlas of a Part of Suffolk County*, or later maps.

Based on the lack of map documented structures post-dating 1904, it was initially surmised that the pre-1858 Mills-Smith house had been removed sometime in the early twentieth century (Bernstein and Merwin 2002:15), possibly coinciding with the establishment of the Flowerfield plant nursery in 1909. However, an aerial photograph dating after 1951 (Gyrodyne Helicopter Historical Foundation 2003) shows an outparcel in the vicinity of

S15/E0 and the buried stairway. This outparcel was later acquired by the Gyrodyne corporation, but at the time of the photograph was a small wooded lot surrounded by agricultural fields south of New York State Route 25A. The resolution of the photograph is not sufficient to determine if the Mills-Smith house was standing, but a mid-twentieth century demolition date (possibly associated with a house fire, as suggested by the burned lumber and melted artifacts) is consistent with the age of the debris found in the 1 x 1 meter excavation unit S12/E5.

The Mills-Smith house was once part of the small rural eighteenth and nineteenth century community known as Mills Pond. The hamlet included "some half a dozen dwellings only, located on the circular margins of a small collection of water, common to all the inhabitants, who are extensive and wealthy farmers" (Langhans 1959:10), while the pond served as a common watering hole for cattle. The area was noted for its fruit growing as well as the mansion of Wickham W. Mills, located southwest of the junction of New York State Route 25A and Mills Pond Road, just west of the project area. Wickham W. Mills was a prominent citizen of Smithtown. He was one of the largest landowners, and served as Town Supervisor for several years. He was a descendant of Timothy Mills, the first settler in the hamlet of Mills Pond and the original estate owner (Smith 1882:19). It is not known if the "W.W. Mills" identified as the owner of the Mills-Smith house was Wickham W. Mills, or another member of the family.

Unlike virtually all Colonial period communities in Suffolk County which grew larger over time, the hamlet of Mills Pond did not survive into the twentieth century. The last interment date at the Mills Pond Cemetery is 1897. The few remaining area farmhouses are listed in the National Register of Historic Places as the Mills Pond Historic District (90NR1882).

The Mills-Smith house is located within the bounds of, and is historically associated with, the Mills Pond Historic District. The archaeological site is potentially National Register eligible as a contributing component to this district and under Criterion D as well. Although a substantial portion of the project area has witnessed disturbance from building demolition, filling, grading, and other activities that have reworked the soil, at least part of the Mills-Smith house site has good integrity (as demonstrated by the intact stairway buried beneath a thick deposit of disturbed soils in excavation unit S14/E0).

The Mills-Smith house site has the potential to provide information regarding nineteenth century rural domestic lifeways in eastern Long Island. Further documentary research could possibly reveal the original date of the house, as well as its occupants. Based on preliminary archival research and the artifact assemblage recovered from the Mills-Smith house site to date (in which, for example, twice as many porcelain tableware fragments were recovered than contemporary but utilitarian redware pieces), it is likely that the earliest Euro-American

inhabitants of the house were relatively well-to-do. According to census data, most Mills family heads-of-household owned slaves at the turn of the nineteenth century, and it is likely that enslaved, and later tenant, farmers worked the fields around the Mills-Smith house. Further archaeological research at the site has the potential to contribute to questions regarding social status as expressed in material culture. Comparisons could also be made between the Mills-Smith house and contemporary sites on eastern Long Island (e.g., the Brewster-Mount house in East Setauket, where there is no evidence of slave ownership [Johannemann and Schroeder 1986], or the Betsey Prince house in Rocky Point, occupied by freed African-Americans [LoRusso 2000]).

SUMMARY AND RECOMMENDATIONS

The two stages of archaeological investigation on the Gyrodyne property in Smithtown have served to identify (Stage 1) and evaluate (Stage 2) the historic period Mills-Smith house (formerly known as the B. Bailey house site, NYSM 11236 and OPRHP A10345.000118). A few artifacts found at the site (e.g., creamware and slipware) suggest that the earliest Euro-American occupation may date to the late eighteenth century, although the first map to definitively show the house at its former location dates to 1858. The bulk of the artifacts date to the mid- to late nineteenth century. The Mills-Smith house may have been occupied through the mid-twentieth century, when it was demolished, possibly following a fire.

The Mills-Smith house site is within the bounds of, and is historically associated with, the National Register of Historic Places listed Mills Pond Historic District (90NR1882). Therefore, the archaeological site appears to be National Register eligible as a contributing component to this district.

Although a substantial portion of the Mills-Smith site has been disturbed by earth-moving activities, excavation of 1 x 1 meter unit S14/E0 revealed a stairway, which probably led to the main entrance of the house. It is likely that intact cellar deposits exist near the buried stairway (e.g., immediately south and west of S15/E0).

Due to the research potential of the Mills-Smith house site, it is recommended that a mitigation plan be developed. As outlined in the *Standards for Cultural Resource Investigations in New York State*, mitigation may take the form of avoidance through project redesign or data recovery (Stage 3 excavations) prior to construction. The area recommended for mitigation measures 25 meters (82 feet) east-west by 15 meters (49 feet) north-south (375 square meters [4018 square feet]) (Figure 10).

If it is not possible to avoid the Mills-Smith house site during future construction, then a Stage 3 archaeological data recovery excavation is recommended. According to the guidelines given in the *Standards for Cultural Resource Investigations* (1995:7), the goals of a Stage 3 archaeological excavation are to "recover information contained in a significant archaeological site before all or part of it is destroyed." The data recovery plan for the Mills-Smith house site should be developed in consultation with the New York State Office of Parks, Recreation, and Historic Preservation, the property owner, and other involved state and federal agencies. Data recovery at the Mills-Smith house site would minimally involve the excavation of large blocks of 1 x 1 meter excavation units to expose architectural features and potentially intact deposits in and adjacent to the house cellar.

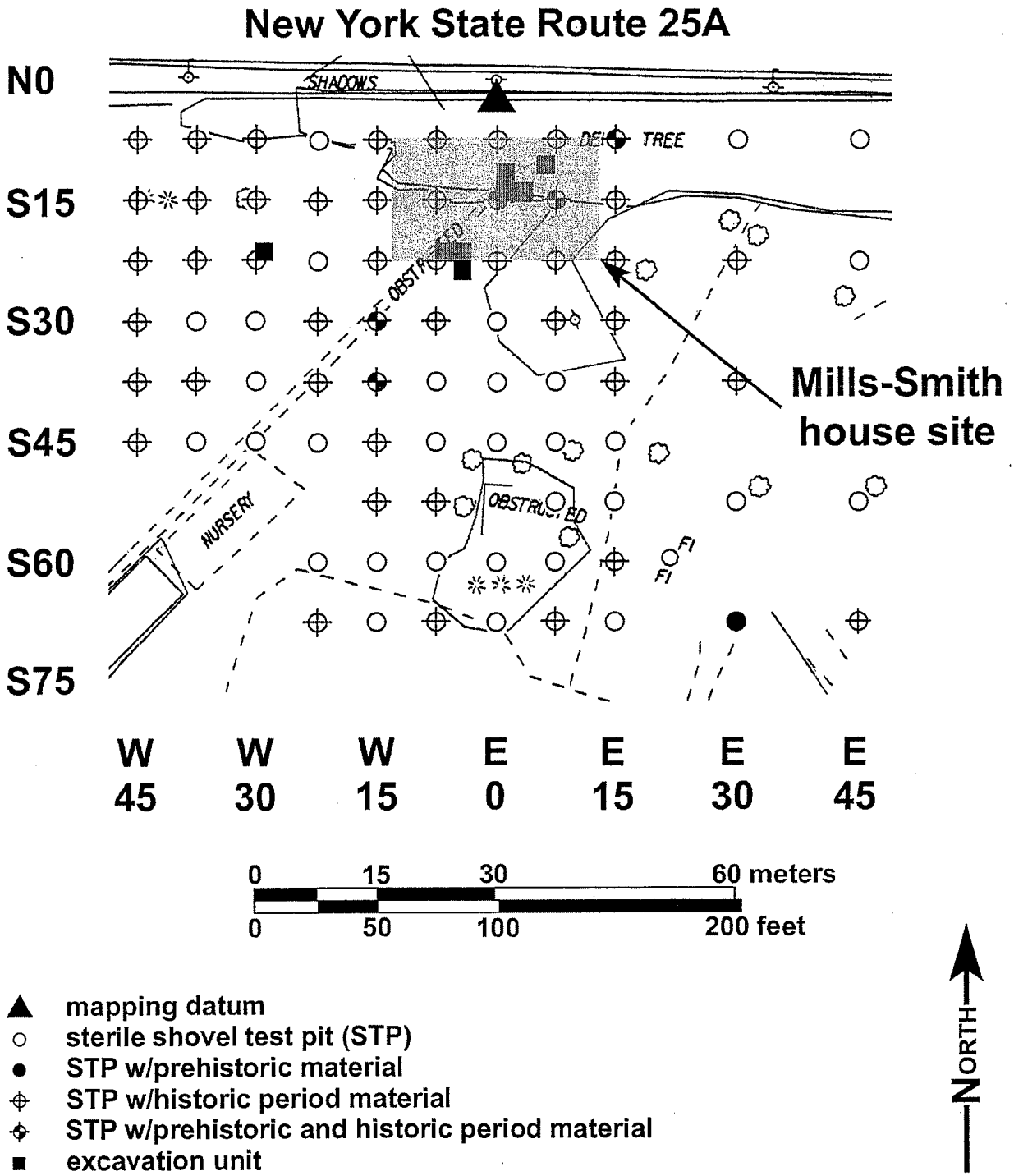

Figure 10. Map of the northwestern section of the Gyrodyne property showing the location of the Mills-Smith house site recommended for avoidance.

THE MILLS POND PREHISTORIC SITE (A10345.000117)

Summary of Stage 1 Results

The Mills Pond prehistoric site was first encountered in the northwest corner of the Gyrodyne property during the archaeological survey performed for the New York State Department of Transportation (Barber 2002). Prehistoric artifacts were found in shovel test pits dug in the lawn of the Mills Pond House to the west of the Gyrodyne property (#660 New York State Route 25A), in the active agricultural field across New York State Route 25A from the Gyrodyne property, and in the former agricultural fields on the Gyrodyne property. The heaviest concentration of prehistoric artifacts was found off the Gyrodyne property, just west of Mills Pond.

Based on the Stage 1 surveys, the prehistoric cultural material from the Mills Pond site appeared to be of low diversity (the assemblage is dominated by quartz chipping debris) and light density (most positive shovel test pits yielded only one artifact). It was estimated that the Gyrodyne portion of the site measured approximately 140 x 60 meters (459 x 197 feet), and that it therefore covered roughly 8400 square meters (90,423 square feet). No temporally diagnostic artifacts were found, and no organic materials definitely associated with the prehistoric deposit were identified. Fifteen of the 186 shovel test pits dug in the northwest corner of the Gyrodyne property yielded a total

of 16 prehistoric artifacts (15 pieces of quartz debitage and one argillite flake). Most of the lithic artifacts (12) were found in the plow zone, while the remaining four were from contexts disturbed by means other than plowing. As discussed below, the findings of the Stage 2 site evaluation are consistent with those from the earlier Stage 1 surveys (Bernstein and Merwin 2002; Bernstein et al. 2002).

Stage 2 Methodology

The boundaries of the Mills Pond prehistoric site have been previously established (Barber 2002; Bernstein et al. 2002). Therefore, the Stage 2 archaeological field work was intended to provide the information necessary to evaluate the significance of the prehistoric materials. This entailed the excavation of units (1 x 1 meter square) designed to obtain information on site contents and chronology, and to collect an adequate sample of the cultural materials present.

Field Methodology. Units were placed in order to sample the variation present in the prehistoric deposits at the Mills Pond site. To this end, 1 x 1 meter units were placed in areas of the site with the following characteristics:

1. Presence of lithic artifacts. Only one shovel test pit (two quartz flakes were found in STP S60/E127.5) yielded more than one lithic artifact. The 1 x 1 meter unit S60/E127.5 was placed in this location for the Stage 2 evaluation.

2. Complete lack of prehistoric cultural material. The 1 x 1 meter unit S52.5/E100 was placed in order to test in an area where the Stage 1 shovel test pits did not find any prehistoric artifacts.

Two additional units (S20/E150 and S45/W90) were placed to examine the northeastern and western portions, respectively, of the prehistoric site on the Gyrodyne property. It should be noted that in addition to the four units itemized above, the eight 1 x 1 meter squares excavated as part of the examination of the historic period site on the Gyrodyne property also served to assist in the study of the prehistoric component.

Units were generally excavated in 10 centimeter arbitrary levels within natural and cultural stratigraphic horizons (A0/A1, plow zone, B2). Exceptions occurred when the natural stratigraphic layers were less then 10 centimeters thick, when surfaces were cleaned to look for features, or when the end of a natural stratigraphic break was approaching.

Excavation was accomplished by shovel skimming and troweling. All sediment was passed through 0.25 inch (6 millimeter) screens. Excavation information for each level was recorded on standardized forms. Soil profiles were drawn and photographed for each unit (Figures 11-13; Plate 5). Soil and artifact data for each 1 x 1 meter square are presented in Appendix C.

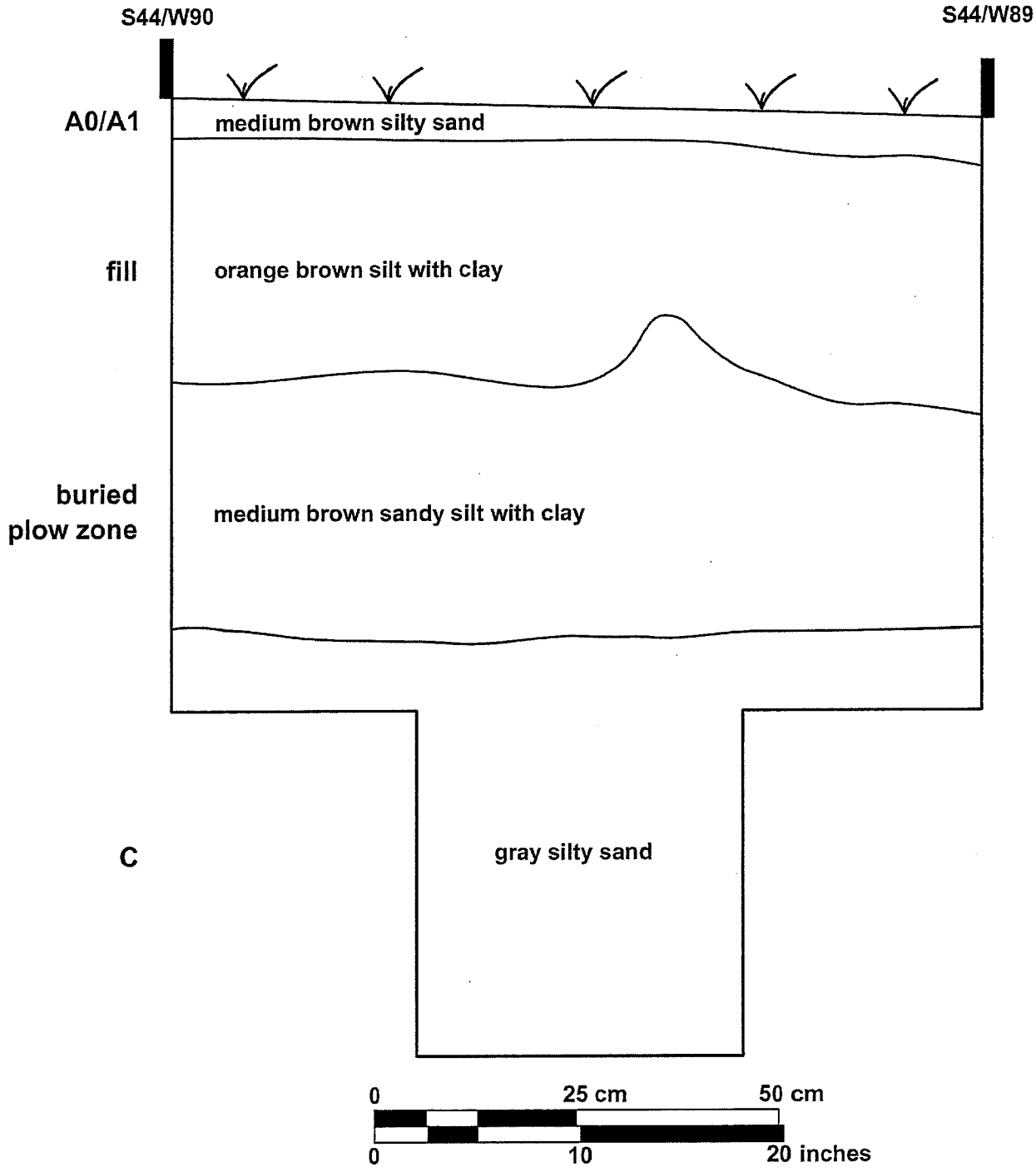

Figure 11. North wall profile drawing of 1 x 1 meter excavation unit S45/W90.

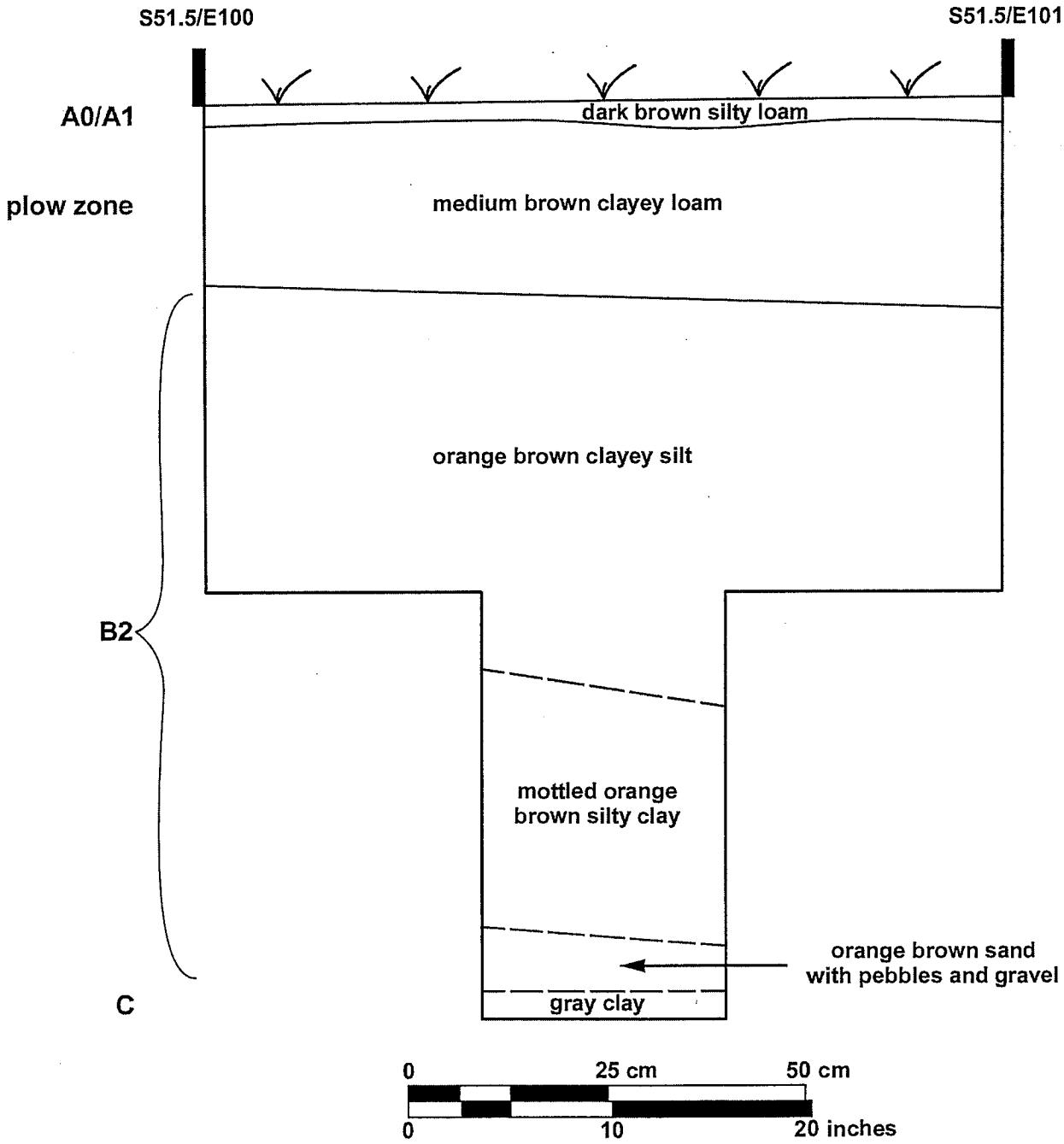

Figure 12. North wall profile drawing of 1 x 1 meter excavation unit S52.5/E100.

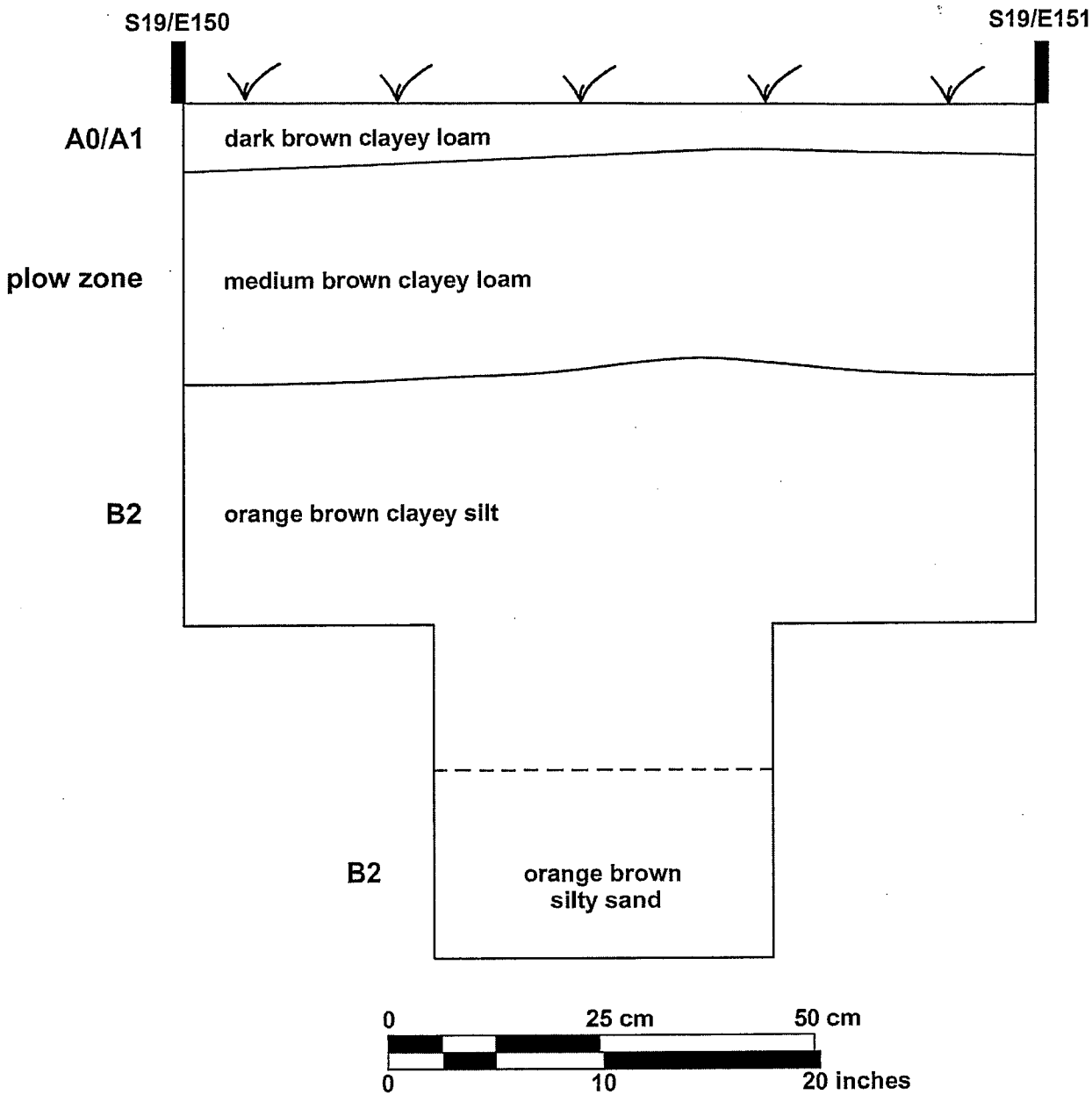

Figure 13. North wall profile drawing of 1 x 1 meter excavation unit S20/E150.

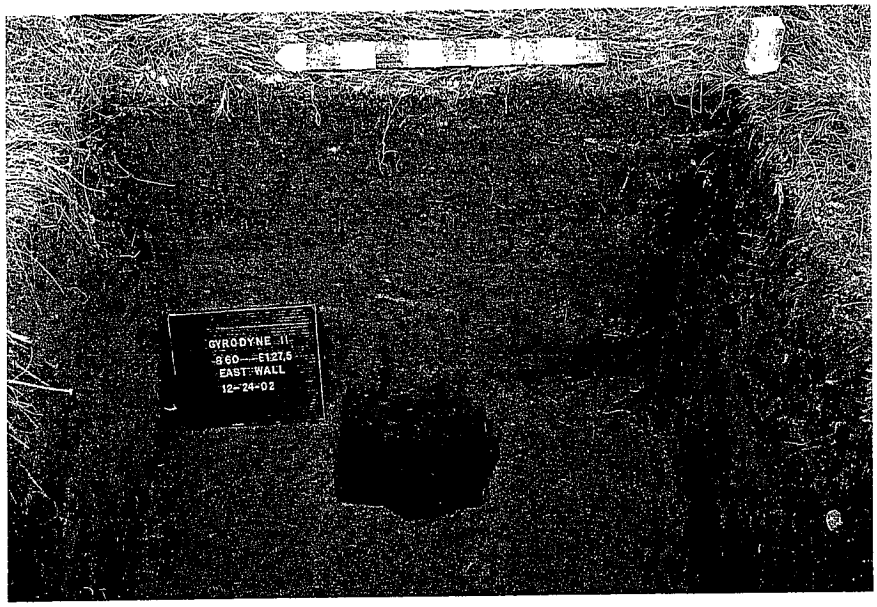

Plate 5. East wall profile of 1 x 1 meter unit S60/E127.5.

Laboratory Methods. In the laboratory, all recovered materials were cleaned, cataloged, and recorded in a computerized database. Lithic artifacts are classified using a standardized system developed specifically for Long Island materials (Bernstein 2001; Bernstein et al. 1990, 1996). Bifaces are tools that have been worked on both the ventral and dorsal surfaces. Modified flakes show a minimum of three contiguous flake scars on at least one edge. Cores are the original pieces of lithic raw material from which flakes are subsequently struck. Split cobbles have been broken and discarded during the initial stage of lithic manufacturing. Debitage (chipping waste) pieces are placed in one of three categories based on the amount of cortex (natural surface, or rind, found on the exterior of a stone) remaining on the dorsal face of a flake. Primary flakes are those with more than 50% of the dorsal face containing cortex. Secondary flakes exhibit cortex over less than 50% of the dorsal face, while tertiary flakes have no cortex remaining.

RESULTS

An inventory of all recovered cultural material appears in Appendix C of this report, along with stratigraphic information for each 1 x 1 meter square excavation unit. Data from the 2002 Stage 1 shovel test pit survey are also provided in Appendix C.

The results of the Stage 2 site evaluation are consistent with the findings of the Stage 1 survey. As was the case for the survey, prehistoric artifacts were found in very small quantities in 1 x 1 meter units excavated for the site evaluation. The only certain prehistoric materials recovered were lithic artifacts (Tables 2 and 3). A total of 48 pieces was found in the 12 1 x 1 meter squares. All but one of these artifacts (a chert flake from S52.5/E100) are of quartz or quartzite, a material locally ubiquitous in the form of cobbles. The only pieces other than debitage (flakes, broken cobbles, and partial cores) were a biface from S60/E127.5 and a modified flake from S15/E0.

As can be seen in Table 2, all of the prehistoric artifacts were found in disturbed contexts. Slightly more half were from the plow zone, and the remainder were recovered from fill, redeposited, or otherwise reworked soils. The original context of the latter materials can not be determined.

TABLE 2[a]

PREHISTORIC ARTIFACTS FROM 1 X 1 METER UNITS: TOTALS PER STRATUM

	Debitage							
Soil Horizon	Pri	Sec	Tert	S.C.	Core	M.F.	Biface	Total Lithic
Plow Zone	4	3	18				1	26
Fill/Disturbed	2	4	11	2	2	1		22
Total	6	7	29	2	2	1	1	48

[a]Abbreviations: Pri=primary, Sec=secondary, Tert=tertiary, S.C.=split cobble, M.F.=modified flake.

TABLE 3[a]

PREHISTORIC ARTIFACTS FROM 1 X 1 METER UNITS: TOTALS PER UNIT

	Debitage							
Unit	Pri	Sec	Tert	S.C.	Core	M.F.	Biface	Total Lithic
S12/E5	2	2	4					8
S14/E0			2		1			3
S15/E0		1	4	2	1	1		9
S15/E1		1						1
S20/E150		2	7					9
S22.5/W30								0
S22.5/W8.5			1					1
S22.5/W7.5			1					1
S23.5/W7.5								0
S45/W90			3					3
S52.5/E100	1		2					3
S60/E127.5	3	1	5				1	10
Total	6	7	29	2	2	1	1	48

[a]Abbreviations: Pri=primary, Sec=secondary, Tert=tertiary, S.C.=split cobble, M.F.=modified flake.

SUMMARY AND RECOMMENDATIONS

The two stages of archaeological investigation on the Gyrodyne property in Smithtown have served to identify (Stage 1) and evaluate (Stage 2) a prehistoric site (NYSM 11237, OPRHP A10345.000117) covering approximately 8400 square meters (90,423 square feet). As discussed above, the material on the Gyrodyne property is part of a larger locus that is also present on the grounds of the Mills Pond House to the west and in the active agricultural field on the north side of New York State Route 25A. A total of 48 lithic artifacts (1 biface, 1 modified flake, 46 pieces of debitage) was found in the 12 1 x 1 meter squares excavated for the Stage 2 evaluation. All were from plow zone or fill/disturbed contexts. These materials seemingly represent small scale incidences of tool manufacturing and/or repair. No prehistoric features were encountered, nor were any prehistoric organic remains.

The Stage 1 and Stage 2 survey and testing of the prehistoric site on the Gyrodyne property indicate that it is doubtful that additional investigations would generate substantive new data relevant to the understanding of prehistoric lifeways on Long Island. The site is heavily disturbed, only scant quantities of prehistoric materials are present, and no features were encountered. In conclusion, the site does not appear eligible for the National Register of Historic Places, and no further archaeological investigations are recommended.

CONCLUSIONS

This report presents the results of two Stage 2 archaeological evaluations undertaken on the Gyrodyne Company of America property in the Town of Smithtown, Suffolk County, New York by the Institute for Long Island Archaeology at the State University of New York at Stony Brook. The two sites were initially identified during two Stage 1 surveys performed in 2002, and are known as the Mills Pond prehistoric site (NYSM 11237, OPRHP A10345.000117) and the Mills-Smith House historic site (formerly reported as the B. Bailey site; NYSM 11236, OPRHP A10345.000118).

A remote sensing survey using ground penetrating radar (GPR) was undertaken to search for buried archaeological features. In addition, a total of 12 1 x 1 meter excavation units was dug for the Stage 2 archaeological investigation.

The portion of the Mills Pond prehistoric site within the Gyrodyne property does not appear to be eligible for listing on the State or National Register of Historic Places. Only 64 lithic artifacts were recovered during the two stages of investigation (16 pieces found during the Stage 1 survey, 48 from the Stage 2). All of the lithic artifacts were found in plowed or otherwise disturbed soils. No further archaeological investigations are recommended to study the prehistoric deposit on the Gyrodyne property.

Although most of the 7,580 historic period artifacts were also found within plowed and disturbed soils, an intact portion of the Mills-Smith house, a stairway, was found during the Stage 2 investigation. The location of this slate and brick feature probably marks the former main entrance of the Mills-Smith house. Intact cellar deposits may exist adjacent to the stairway feature. The Mills-Smith house site appears to be eligible for listing on the National Register of Historic Places. Additional work at the site could potentially enhance the understanding of rural nineteenth century lifeways on eastern Long Island.

Due to the research potential of the Mills-Smith site, and its location in the National Register listed Mills Pond Historic District, it is recommended that a mitigation plan be developed for a portion of the Gyrodyne property. As outlined in the *Standards for Cultural Resource Investigations in New York State*, mitigation may take the form of avoidance through project redesign or data recovery (Stage 3 excavations) prior to construction. If site preservation is not possible, then archaeological data recovery will be necessary to study the site before its eventual destruction.

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APPENDIX A: CORRESPONDENCE

SITE EVALUATION PLAN
(STAGE II)

GYRODYNE COMPANY OF AMERICA PROPERTY IN SMITHTOWN
NYSM 11236 AND NYSM 11237

ST. JAMES, TOWN OF SMITHTOWN
SUFFOLK COUNTY, NEW YORK

PREPARED BY

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October 2002

INTRODUCTION

The two archaeological sites treated in this proposal were identified during Stage 1 archaeological surveys performed by the Institute for Long Island Archaeology of the State University of New York at Stony Brook. The first survey was conducted in April 2002 for the New York State Department of Transportation who is considering improvements to New York State Route 25A (PIN 0327.95.101)(Barber 2002). The second was performed for the Gyrodyne Company of America, the owners of the property containing the two sites (Bernstein and Merwin 2002; Bernstein et al. 2002). The Stage 1 reports detailing the results of these two surveys are included with this submission.

A survey of the Town of Brookhaven portion of the Gyrodyne property was performed in 1998 by Jo-Ann McLean (McLean 1998a, 1998b). No significant archaeological sites were identified on this parcel. Accordingly, this proposal deals only with the two sites (NYSM 11236 and 11237) identified on the Smithtown section of the Gyrodyne property.

THE B. BAILEY HISTORIC SITE

Stage 1 Results

The historic period B. Bailey site (NYSM 11236) was first encountered in the northwest corner of the Gyrodyne property during the 2001 archaeological survey performed for the New York State Department of Transportation (Barber 2002). The site location was initially ascertained through an examination of nineteenth century maps, and was subsequently confirmed with subsurface testing. The pre-1858 Bailey house was part of a small rural nineteenth century community clustered around Mills Pond. The house formerly fronted on New York State Route 25A (North Country Road), which was the most important east-west thoroughfare on the north shore of Long Island starting in the early eighteenth century. The B. Bailey site is within the boundaries of, and potentially may be considered a contributing component to, the National Register listed Mills Pond Historic District (90NR1882).

As can be seen in the enclosed report prepared for the New York State Department of Transportation and in Table 1, the cultural materials found at the B. Bailey site are a mixture of architectural debris and household refuse. The majority of the artifacts date to the nineteenth century, and include square cut nails (nineteenth century), ball clay smoking pipe fragments (mid-eighteenth through early nineteenth century), creamware

(1770-1820), pearlware (1780-1840), and whiteware (1820-1900+), minor amounts of window and bottle glass, soft and hard shell clam, oyster, brick, coal, and slag. Virtually all of the historic period artifacts were found in the plow zone or in soils disturbed by other earth-moving activities. A possible feature associated with the demolition of the B. Bailey house (consisting of lenses of brick rubble and shell) was encountered in STP S22.5/W7.5 (Barber 2002). This feature may be associated with the pre-1914 removal of the house.

Table 1

Artifacts from the Historic Period B. Bailey Site

		A0/A1	*plow zone*	*disturbed*	*B2*	*total*
glass	*bottle*		6			6
	curved		24	3		27
	window		23	1		24
	flat		7			7
	other			1		1
ceramic	*creamware*		1		1	2
	pearlware		17	1		18
	whiteware		16	32		48
	ironstone		4			4
	other earthenware		2	1		3
	stoneware		1			1
	porcelain		2			2
	flowerpot		2	7		9
	smoking pipe		1			1
	brick		99	50		149
metal	*square cut nail*		34	6		40
	other		7			7
organic	*animal bone*		2			2
	shell (MNI)		21			21
mineral	*coal/slag*		36			36
	mortar		2			2
	other		7			7
total		0	314	102	1	417

B. Bailey Site: Stage 2 Methodology

Both of the archaeological evaluations will be undertaken in accordance with the guidelines outlined in the Standards for Cultural Resource Investigations and the Curation of Archaeological Collections issued by the New York Archaeological Council and the New York State Office of Parks, Recreation, and Historic Preservation (1995). The purpose of a Stage 2 evaluation is to provide data adequate to allow a determination of a site's eligibility to the National Register of Historic Places. Included in a Stage 2 study are information on site boundaries and disturbances and an assessment of its significance.

The boundaries of the B. Bailey historic site have been previously established (Barber 2002; Bernstein et al. 2002). Therefore, the archaeological field work described in this proposal will serve to provide information necessary to evaluate the significance of the site and its potential to yield information significant for understanding nineteenth century rural domestic lifeways. In addition, it will be necessary to determine its eligibility for the National Register based on its location within, and association with the historic context of, the listed Mills Pond Historic District (90NR1882).

Two field procedures will be used in the site evaluation at the B. Bailey site. The first is the excavation units (one and/or two meter squares) designed to search for the presence of

preserved features such as foundations, chimneys, cellars, and the remains of outbuildings. Units will be placed in areas that yielded artifacts contemporary with the occupation of the B. Bailey site and near STP S22.5/W7.5 where a possible feature (lense of brick and shell) was encountered during the Department of Transportation survey (Barber 2002:26). Four to six of these units will be excavated at the B. Bailey site.

Ground penetrating radar will also be used to search for subsurface features at the B. Bailey site. As the site is in a flat, cleared area, remote sensing procedures can be utilized to search for features. This work will be directed by Dr. Daniel Davis of the Geosciences Department at the State University of New York at Stony Brook and will be conducted at the same time as the archaeological excavations.

The units will be excavated with shovels and trowels in natural and arbitrary stratigraphic levels. All excavated soil will be screened through 6 millimeter (1/4") mesh to ensure adequate recovery of cultural material. Soil from all features will be sampled. Analysis of sediments, botanical remains, and faunal materials will be performed if appropriate. All excavation units will be refilled.

In the laboratory, artifacts will be cleaned, classified, and cataloged. Where necessary, technical analyses will be performed by qualified specialists. After analysis, all excavation and artifactual information will be entered into a computerized database. The database will be printed as an

appendix to the site evaluation report. All materials will be stored at the Institute for Long Island Archaeology at the State University of New York at Stony Brook where they will be available for research and educational purposes.

The procedures outlined in this proposal may be adjusted during the course of fieldwork depending on excavation results.

THE MILLS POND PREHISTORIC SITE

Stage 1 Results

The Mills Pond prehistoric site (NYSM #11237) was first encountered in the northwest corner of the Gyrodyne property during the archaeological survey performed for the New York State Department of Transportation (Barber 2002). As discussed in the enclosed reports, prehistoric artifacts were encountered in shovel test pits dug in the lawn of the Mills House to the west of the Gyrodyne property (#660 New York State Route 25A), in the active agricultural field across Route 25A from the Gyrodyne property, and in the former agricultural fields on the Gyrodyne property. The heaviest concentration of prehistoric artifacts was found off the Gyrodyne property, just west of Mills Pond.

The prehistoric cultural material from the Mills Pond site appears to be of low diversity (the assemblage is dominated by quartz chipping debris) and light density (most positive shovel test pits yielded only one artifact). No temporally diagnostic artifacts were found, and no organic materials definitely associated with the prehistoric deposit were identified. Fifteen of the 186 shovel test pits dug in the northwest corner of the Gyrodyne property yielded a total of 16 prehistoric artifacts (15 pieces of quartz debitage and one argillite flake). Most of the lithics (12) were found in the plow zone, while the remaining four were from contexts disturbed by means other than plowing.

Mills Pond Site: Stage 2 Methodology

The boundaries of the Mills Pond prehistoric site have been previously established (Barber 2002; Bernstein et al. 2002). Therefore, the archaeological field work described in this proposal will serve to provide information necessary to evaluate the significance of the prehistoric materials. This will entail the excavation of units (one and/or two meter squares) designed to obtain information on site contents and chronology, and to obtain an adequate sample of the cultural materials present. Units will be placed in order to sample the variation present in the prehistoric deposits at the Mills Pond site. Therefore, units will be placed in areas of the site with the following characteristics:

1. Presence of lithic artifacts. Only one shovel test pit (two quartz flakes were found in STP S60/E127.5) yielded more than one lithic artifact.
2. Complete lack of prehistoric cultural material.

In addition, units will be placed in order to examine all areas (north, south, east, west) of the site. Four to six 1 x 1 meter units will be excavated. The units will be excavated with shovels and trowels in natural and arbitrary stratigraphic levels. All excavated soil will be screened through 6 millimeter (1/4") mesh to ensure adequate recovery of cultural material. Soil from all features will be sampled. Analysis of sediments, botanical remains, and faunal materials will be performed if appropriate. All excavation units will be refilled.

In the laboratory, artifacts will be cleaned, classified, and cataloged. Where necessary, technical analyses will be performed by qualified specialists. After analysis, all excavation and artifactual information will be entered into a computerized database. The database will be printed as an appendix to the site evaluation report. All materials will be stored at the Institute for Long Island Archaeology at the State University of New York at Stony Brook where they will be available for research and educational purposes.

The procedures outlined in this proposal may be adjusted during the course of fieldwork depending on excavation results.

KEY PROJECT PERSONNEL AND CONSULTANTS

Program Director:
Dr. David J. Bernstein, Associate Professor of Anthropology and Director of the Institute for Long Island Archaeology

Crew Chiefs:
Mr. Michael J. Lenardi, M.A., R.P.A.
Ms. Daria E. Merwin, M.A., R.P.A.

Specialists:
Faunal Analysis: Dr. Yin-Man Lam

Lithic Analysis: Dr. John Shea

Botanical Analysis: Dr. Patricia Crawford

GIS: Dr. Elizabeth Stone

Collections and Curation: Ms. Michele Morrisson, M.A.

Human Remains: Dr. Frederick Grine

Remote Sensing: Dr. Daniel Davis

SPECIAL PROVISION FOR THE TREATMENT OF HUMAN REMAINS

If human remains are discovered, special procedures will be necessary. Per New York State guidelines the following procedures will be observed:

> Any discoveries of human remains must be treated with the utmost dignity and respect. Should human burials be encountered, the location should immediately be secured and protected from damage and disturbance.

Should bones (human or animal) be encountered in the field, it may necessary that a physical anthropologist be consulted in order to firmly identify the remains. Dr. Frederick Grine of the Departments of Anatomy and Anthropology at SUNY-Stony Brook will be enlisted to provide this service. Dr. Grine serves as a consultant to the Suffolk County Medical Examiner and to local police departments. If the bones are determined to be human, all excavation will cease and the appropriate authorities (SHPO, police, Native American groups, etc.) will be contacted.

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ADDENDUM

SITE EVALUATION PLAN
(STAGE II)

GYRODYNE COMPANY OF AMERICA PROPERTY IN SMITHTOWN
NYSM 11236 AND NYSM 11237

ST. JAMES, TOWN OF SMITHTOWN
SUFFOLK COUNTY, NEW YORK

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The following information is provided in response to the comments of Douglas P. Mackey of the New York State Office of Parks, Recreation and Historic Preservation in his letter to David J. Bernstein of SUNY-Stony Brook dated November 22, 2005.

1. The B. Bailey historic site (NYSM #11236) measures approximately 60 x 60 meters (197 x 197 feet). The area to be studied is therefore approximately 3600 square meters (38,760 square feet).

The prehistoric site (NYSM #11237) measures approximately 140 x 60 meters (459 x 197 feet). The area to be studied is therefore 8,400 square meters (90,423 square feet).

2. The entire 3600 square meters of the B. Bailey historic site will be studied with ground penetrating radar (gpr). The gpr survey will be conducted prior to the hand excavation at the site. This will allow for some (roughly half) of the hand excavated units (4-6 units each measuring 1 x 1 or 1 x 2 meters) to be placed in order to ground truth anomalies that may be identified with the gpr survey.

APPENDIX B: GROUND PENETRATING RADAR SURVEY METHODS AND RESULTS

Ground-Penetrating Radar Survey

Overview

A GPR (Ground-Penetrating Radar) survey was conducted in the northwestern portion of the Flowerfield property, in search of possible anthropogenic targets, including intact or scattered portions of a buried building foundation. The survey, which included over 8 km of radar data, identified several sites of particular interest. Some of these were later identified by excavation. The vast majority of the hundreds of buried reflectors identified during the surveys are interpreted to be cobbles of glacial origin. These were particularly abundant in the eastern third of the survey area. In addition, numerous brightly radar-reflective sediment horizons have been identified. Most of these are believed to represent sedimentary contacts, often with ponded ground water, although some in the southern part of the radar survey area may be disturbance associated with a buried path.

Most significantly, a series of elongate features were identified within a 30m by 15m region near the fence on the route 25A side of the property. These features are consistent with the presence of large numbers of closely spaced strong radar reflectors within laterally confined zones at depths ranging from less than 50 cm to over 1 m. Radar can map their extent, but cannot unambiguously identify their nature. Excavation showed these reflectors to consist of accumulations of brick, cobbles and small boulders, and, in at least one case, refuse containing significant amounts of metal.

Equipment

The survey was carried out using the RAMAC GPR survey equipment from the Stony Brook University Department of Geosciences geophysics/tectonics lab of Prof. Dan Davis. With the exception of a small number of pre-survey test lines performed with unshielded 200 MHz bistatic hand-held antennas, all work was done using either the 500 MHz or 800 MHz monostatic shielded antennas mounted on a cart and controlled by a RAMAC CU-II control unit and a cart-mounted PC. Before each survey line is run, the PC is programmed for the appropriate radar antenna frequency, data sampling rate, the number of samples to be taken per trace, the numbers of times each trace is to repeated (stacked), and the horizontal distance between successive trace stacks. Values for these and other pertinent parameters are indicated in Table 1.

The 500 MHz antennas have a peak energy outlet near 500 MHz (2 nanosecond period). With a radar velocity of 10 cm/ns (typical for such sediments, and one third of c, the speed in a vacuum), this produces a wave with a wavelength of 20 cm. This antenna system has a theoretical resolution (detection of an isolated high-contrast object in an otherwise uniform medium) of roughly 5 cm. In other surveys, objects about twice that size have been routinely identified. The depth to which objects can be identified depends upon the material. This site included some areas with significant clay content, reducing signal penetration somewhat. Nonetheless, stratigraphic features to at least 3 m depth were identified using the 500 MHz antennas. The 800 MHz peak energy of the other antennas used in the survey yield a period of 1.25 ns, a wavelength of a bit over 12 cm, and a theoretical resolution of about 3 cm. Stratigraphic layers, boulders and cobbles to 2 m are readily identified in several parts of this survey area.

Survey Lines

Preliminary tests of target sediment radar characteristics were carried out on December 23, 2002 using all three radar antenna sets (200, 500, and 800 MHz). On the basis of those results, a plan was developed for the deployment of 500 MHz lines across the entire survey area in order to determine target areas to be examined more closely with a tight grid of higher-resolution 800 MHz radar lines. The survey consists of 125 lines or line segments, totaling over 8 km in length (Table 2). It was carried out within a 160 m by 95 m area south of route 25A, just east of Mills Pond.

The 500 MHz radar transects (blue lines in Figure 1) consist of 39 W-E lines spaced 2.5 m apart along grid positions s5 to s 100, supplemented by 10 S-N crossing lines. Breaks in the lines result from obstruction by trees, bushes, and recent pavement and structures. Several lines were repeated in order to verify repeatability of results and to test the adequacy of data stacking. Line breaks, combined with redundancy tests and data dropouts bring the total number of 500 MHz lines to 81. The 5033 m of 500 MHz data were collected on three field survey outings, January 11, 12, and 13, 2003.

A total of 44 data sets with a combined length of 2988 m were obtained using the 800 MHz radar antenna unit on January 26 and February 6, 2003 (red lines in Figure 2). These data include 21 parallel W-E lines spaced 1 m apart in the northeastern part of the survey area where the lower-resolution 500 MHz data indicated a grouping of interesting targets. In addition, there were 8 additional W-E lines and 3 N-S crossing lines. About a dozen lines were repeated in order to verify data repeatability and to rule out electronic interference as a significant contributor to the observed signal. Trees limited the dimensions of the grid.

Data and Conclusions

The survey area contains an extremely large number of radar hyperbolae. This is typical of Long Island GPR data, because isolated buried objects, such as glacially-deposited sediments that are ubiquitous along the north shore, produce hyperbolic signals on radargrams. Particularly prominent hyperbolas, or clumps of hyperbolic signals, are indicated by small bulls-eyes in Figures 1 and 2. Some of the Flowerfield GPR lines contain scores of individual hyperbolas. This is particularly true of the southeastern part of the survey area, where a cobble-containing stratigraphic layer is within 1 to 2 meters of the surface. The profile of this layer on crossing lines indicates that its upper surface is irregular, dipping on average 2°-3° to the WNW. The clump of such signals in the northeastern part of the survey area emanate from targets in the top meter of the surface, as well as from the dipping cobble-bearing layer which is 1.5 to 2 m deep in that area. Several examples appear in Figure 3, a 500 MHz radar line running eastward from (s37.5, w30) to (s37.5, e40). Some of the more prominent cobbles are indicated by red dots. Most are found among the complex signals returned from the lower-right portion of the radargram in Figure 3, within and beneath a fairly prominent layer with an apparent dip of about 3° to the west (left). A large number of small clasts close to the surface are responsible for the straight-flanked hyperbolas visible in the mid-to-upper portions of the left-hand side of the radargram. The shapes of the hyperbolas depend upon the radar velocity of the medium – in this case approximately 10cm/ns. Determination of that velocity allows conversion of signal return time into depth. A conspicuous hyperbola in the lower-left corner of the radargram is not a subsurface feature at all. Its very broad shape (compare it with the tightly curved small hyperbolas throughout the rest of the radargram) indicates that it is generated by waves moving at 30 cm/ns, the speed of light in a vacuum (or air). Mapping carried out as part of the radar

survey confirms that this is a side lobe reflection of energy off of a particularly large tree. Although most of the radar energy is directed downward, some 'leaks' to the side and can, on occasion, produce such spurious signals. Fortunately, they are readily identified because of the resulting hyperbola shape.

The second class of interesting radar signal is generated by horizons that appear locally as very bright radar reflectors. This implies a strong impedance contrast (commonly due to a change in sediment composition, packing, or water content) over a length scale appropriate to the wavelength of the radar antenna being used (Table 1). An area in the western part of the survey area included a horizon that was particularly strong reflector in a 200 MHz test line run before the start of the survey (it appeared, though less prominently, in a 500 MHz line, suggesting a transition in properties over a range of depths, as opposed to a sharp contract). On the basis of geological interpretation, as well as auger drilling and excavation of one particularly bright example, this was found to represent a complex sedimentary contact. Another strongly reflecting layer appears in Figure 4, a 500 MHz line running from (s47.5, w125) to (s47.5, w75). Sharp sediment contacts, often with ponded groundwater, are the likely explanation of most such reflectors, which are indicated by dark rectangles in Figures 1 and 2. A likely exception is a bifurcating linear N-S trend of relatively bright shallow reflectors in the southern part of the radar survey area (Figure 1), which may be disturbance associated with a buried path. Figure 4 is typical some of the less radar-prominent bedding within the survey area, as well as a deeper, complexly reflecting layer, possibly comprised of glacial till.

Another possible manifestation of shallow energy loss is 'shadow zones', which are indicated by grey shaded rectangles in Figures 1 and 2. In these areas, the weak and reverberating character of late radar returns indicates a shallow loss of energy, but the reflector responsible is less prominent than in areas described as bright reflectors. It is surmised that these features may be the result of either incompletely imaged small shallow objects that reflect and scatter radar energy or sediments, such as clays, that absorb much of the energy.

The final – and most significant - class of target is a 'prominent depressed reflection zone'. Found near the route 25A fence, the primary example of such a zone is imaged in a radargram in Figure 5a. An annotated version is shown in Figure 5b. This is an 800 MHz radar line running from (s12.5, w30) to (s12.5, e10). Because of the higher radar frequency, the imaging is limited to shallower depths than with the 500 MHz antennas, but the resolution is better. Note the greater vertical resolution and higher degree of vertical exaggeration in Figure 5. Most importantly, note the prominent region of strong and chaotic reflections that extends well below the depth of the shallow sediment horizon seen across the rest of the radargram. Numerous individual hyperbola-generating targets are indicated, along with one particularly prominent deep object. The character of the signal suggests that there are numerous separate radar-reflecting objects, but that they are sufficiently closely spaced that they interfere with the reflection signals from each other – implying that they are no more than a few centimeters apart. This depressed reflection zone was the prime target identified using GPR. It is part of a region that is identified on the most northerly of the 800 MHz line (s5), is particularly strong between s10 and s13, becomes a 'shadow zone' from s14 to s18, and trails off into a clumping of hyperbolas between s19 and s22 (see Figure 2). Excavation identified this, and a zone of bright reflectors just to the west of it, as containing a mix of rocks, brick, and metal artifacts capable of producing significant radar reflections.

TABLE 1

Radar Acquisition Characteristics

	200 MHz	500 MHz	800 MHz
wavelength (v=8 cm/ns)	40 cm	16 cm	10 cm
wavelength (v=15 cm/ns)	75 cm	30 cm	19 cm
theoretical resolution	10-20 cm	4-8 cm	2.5-5 cm
typical penetration	3-8 m	1-3 m	2-4 m
antenna geometry	bistatic	monostatic	monostatic
Deployment Mode	hand-carried	cart	cart
Sampling Frequency	2236 MHz	6057 MHZ	11635 MHZ
(vs. peak signal freq.)	11.2 x	12.1 x	14.6
Time Window	229 ns	100 ns	50 ns
(vs peak period)	46 x	50 x	40 x
Number of Samples	512	605	586
Trace Interval	20 cm	5 cm	5 cm
Number of Stacks	16	8	8
Antenna Separation	60 cm	18 cm	14 cm
Typical Line Separation	-	2.5 m	1 m
Total Number of Lines	-	80	45
Total Line Length	-	5049 m	3030 m

TABLE 2

Radar Lines In Survey

		direction				calc-dist. to				
date	prefix	start(s)		start(w)		odo-dist.		S=+ve	w=+ve	Notes
11-Jan	ff5s	05	w	80	e	79.76	80	5	0.0	
11-Jan	ff5s	07.5	w	80	e	79.71	80	7.5	0.0	veered L+N .5m around big tree at ?? (50??)
11-Jan	ff5s	10	w	95	e	94.74	95	10	0.0	ran over a bit, last H25cm maybe NG
11-Jan	ff5s	12.5	w	95	e	54.72	55	12.5	40	stop at tree
11-Jan	ff5s	12.5	w	30	e	30.15	30	12.5	0.0	continuation after treees
11-Jan	ff5s	15	w	100	e	59.14	59	15	40.2	to tree
11-Jan	ff5s	15	w	40	e	39.87	40	15	0.0	start veered to LN of tree
11-Jan	ff5s	17.5	w	80	e	79.55	80	17.5	0.0	
11-Jan	ff5s	20	w	110	e	27.15	27	20	83	veer to LN of tre @bushes, 20-25m; POWER DROPOUT
11-Jan	ff5s	20	w	110	e1	30.00	30	20	80	veer as above; LAPTOP POWER DIED
11-Jan	ff5s	20	w	110	e2	150.19	150	20	0.0	veer as above @20-25; 57.4=drain (barely there!)
11-Jan	ff5s	*22.5*	w	110	e	150.19	150	22.5	0.0	
11-Jan	ff5s	25	w	115	e	130.03	130	25	0.0	veer LN of tree @127.7; FROZE @ 130.03
12-Jan	ff5s	25	e	-15	e	25.00	25	25	0.0	pick up interrupted line
12-Jan	ff5s	*27.5*	w	115	e	40.34	40	27.5	75	*10-35 rutted; veer .5m LN by big tree @40;*
12-Jan	ff5s	27.5	w	70	e	30	27.5	40		
12-Jan	ff5s	30	w	120	e	160.45	160	30	0.0	heqavily rutted 70-85m; passing R of tree @90.8
12-Jan	ff5s	32.5	w	120	e	25.01	25	32.5	95	end @bush; original N hole @ 16.0m
12-Jan	ff5s	32.5	w	92	e	17.01	17	32.5	75	short run between bushes
12-Jan	ff5s	32.5	w	70	e	109.78	110	32.5	0.0	Query 1.6m, 14.0m, 36.5m
12-Jan	ff5s	35	w	125	e	27.00	27	35	98	POWER DROPOUT @H27m
12-Jan	ff5s	*35*	w	125	e1	165.84	165	35	0.0	*veer 1m LN@34, by bushes to RS@50*
12-Jan	ff5s	*37.5*	w	125	e	31.45	31	37.5	94	*query hyp.@ 11m, 12m*
12-Jan	ff5s	*37.5*	w	88	e	10.07	10	37.5	78	*to bush*
12-Jan	ff5s	*37.5*	w	72	e	55.80	55	37.5	17	
12-Jan	ff5s	37.5	w	12	e	51.77	52	37.5	0.0	query H22m
12-Jan	ff5s	40	w	125	e	65.22	65	40	60	skirt RS of bush @35m
12-Jan	ff5s	42.5	w	125	e	63.61	62	42.5	62	hyp. @4m is too deep
12-Jan	ff5s	45	w	120	e	58.46	58	45	62	stop at tree
12-Jan	ff5s	47.5	w	125	e	62.44	62	47.5	63	
12-Jan	ff5s	50	w	125	e	59.97	60	50	65	query @18m
12-Jan	ff5s	52.5	w	125	e	52.01	52	52.5	73	
12-Jan	ff5s	*55*	w	125	e	52.14	52	55	73	
12-Jan	ff5s	57.5	w	110	e	23.29	23	57.5	87	start after trees
12-Jan	ff5s	60	w	125	e	38.11	38	60	87	v. bumpy
12-Jan	ff5s	62.5	w	105	e	29.82	30	62.5	75	
12-Jan	*ff5s*	*65*	*w*	*100*	*e*	*2.94*	*3*	*65*	*97*	*BAD SIGNAL STOP*
13-Jan	ff5s	65	w	100	e3	15.22	15	65	85	
13-Jan	ff5s	40	w	50	e	70.64	70	40	0.0	JUMPY ZERO-BASE; tangled in bush 40±.5m
13-Jan	ff5s	40	w	50	e1	90.37	90	40	0.0	veer RS by 1m @H40m; pass flag (above) @68.7m
13-Jan	ff5s	42.5	w	45	e	84.96	85	42.5	0.0	on ice puddle 14.8-16.5; pass 1.7m LN or. flag @60.7m
13-Jan	ff5s	45	w	45	e	85.11	85	45	0.0	veer LN by end of bushes @13-17m
13-Jan	ff5s	*47.5*	w	20	e	60.21	60	47.5	0.0	*SHOULD BE '47.5'; pass0.5m N house @18.7-24.7 m*
13-Jan	ff5s	50	w	20	e	18.06	18	50	2	
13-Jan	ff5s	52.5	w	20	e	17.70	18	52.5	2	
13-Jan	ff5s	50	e	-5	e	34.67	35	55	0.0	
13-Jan	ff5s	52.5	e	-5	e	34.74	35	52.5	0.0	
13-Jan	ff5s	55	w	20	e	6.00	0	55	20	
13-Jan	ff5s	55	w	20	e	59.67	60	55	0.0	by house=18-24m; 41.6m=3m LN of util. cover
13-Jan	ff5s	57.5	w	20	e	59.40	60	57.5	0.0	skirt RS of tree @H23m, over util. cover @41m
13-Jan	ff5s	60	w	30	e	69.77	70	60	0.0	NOTE: 39m,.8m deep, big hyp flank - not house
13-Jan	ff5s	62.5	w	30	e	70.11	70	62.5	0.0	hyp.@(43,1.3)m
13-Jan	ff5s	65	w	40	e	80.27	80	65	0.0	note hyps.
13-Jan	ff5s	67.5	w	40	e	80.17	80	67.5	0.0	note hyps.!
13-Jan	ff5s	70	w	40	e	79.98	80	70	0.0	skirt trees @7m,21m
13-Jan	ff5s	72.5	w	40	e	80.00	80	72.5	0.0	hyp. @49.5m, 2m deep @ 66m,67m
13-Jan	ff5s	75	w	40	e	80.02	80	75	0.0	hyps. @ 35-36,49m
13-Jan	ff5s	77.5	w	40	e	79.97	80	77.5	0.0	
13-Jan	ff5s	80	w	40	e	80.05	80	80	0.0	hyps.@57-60m
13-Jan	ff5s	82.5	w	40	e	79.68	80	82.5	0.0	hyps. @ 40,47,50.5,55m
13-Jan	ff5s	85	w	*35*	c	75.02	75	85	0.0	*should say '35', not '40'*
13-Jan	ff5s	85	w	40	e1	80.07	80	85	0.0	repeat, 5m back on mark; .5m from util. cover @4.5m
13-Jan	ff5s	87.5	w	40	e	79.92	80	87.5	0.0	2m from util. cover @ 4.5m
13-Jan	ff5s	90	w	40	e	79.90	80	90	0.0	Hover util. @1m
13-Jan	ff5s	92.5	w	40	e	80.00	80	92.5	0.0	
13-Jan	ff5s	95	w	40	c	79.86	80	85	0.0	
13-Jan	ff5s	97.5	w	40	e	79.90	80	97.5	0.0	

TABLE 2 (continued)

date	prefix	start(s)		(w)	dir.	odo	calc.	to s=	w=	Notes
13-Jan	*ff5s*	*100*	*w*	*40*	*e*	*5.08*	*0*	*100*	*40*	*early data dropout*
13-Jan	ff5s	100	w	40	e1	79.88	80	100	0.0	
13-Jan	ff5s	100	w	-35	n	79.85	80	20	0.0	
13-Jan	ff5s	100	w	-30	n	79.91	80	20	0.0	
13-Jan	ff5s	100	w	-25	n	79.87	80	20	0.0	
13-Jan	*ff5s*	*100*	*w*	*-2*	*n*	*0.00*	*0*			*label error: '2' should be '20', so stopped at 0m*
13-Jan	ff5s	100	w	-20	n	79.84	80	20	0.0	veer RE of tree @22m, LW of tree @55m
13-Jan	ff5s	100	w	-15	n	64.92	65	35	0.0	end @ tree
13-Jan	ff5s	100	w	-10	n	69.80	70	30	0.0	skirt RE of pump@45.5
13-Jan	ff5s	100	w	20	n	94.96	95	5	20	query hidden drain @75m
13-Jan	ff5s	100	w	05	n	89.46	90	10	5	skirt LW of tree @48.5m
13-Jan	ff5s	60	w	80	n	55.33	55	5	80	
13-Jan	ff5s	65	w	100	n	50.66	50	15	100	
26-Jan	ff8s	10	w	40	e	59.99	60	10	0.0	by tree @56
26-Jan	ff8s	10	w	40	e1	39.97	40	10	0.0	reproducability test
26-Jan	ff8s	10	w	40	e2	59.6	60	10	0.0	reproducability test; to L of tree @56
26-Jan	ff8s	11	w	40	e	59.53	60	11	0.0	
26-Jan	ff8s	12	w	30	e	49.72	50	12	0.0	veer a tad R=S 35-41
26-Jan	ff8s	13	w	30	e	49.83	50	13	0.0	
26-Jan	ff8s	14	w	30	e	49.85	50	14	0.0	pass L of tree @42.5
26-Jan	ff8s	15	w	30	e	50.06	50	15	0.0	
26-Jan	ff8s	16	w	30	e	49.92	50	16	0.0	
26-Jan	ff8s	17	w	30	e	50	50	17	0.0	
26-Jan	ff8s	18	w	30	e	50.01	50	18	0.0	
26-Jan	ff8s	19	w	45	e	64.95	65	19	0.0	
26-Jan	ff8s	19	w	40	e1	60.07	60	19	0.0	
26-Jan	ff8s	20	w	40	e	60.02	60	20	0.0	high stakes @20,40&60
26-Jan	ff8s	18	w	40	e	45.11	45	18	0.0	
26-Jan	ff8s	17	w	40	e	59.86	60	17	0.0	
26-Jan	ff8s	16	w	40	e	59.95	60	16	0.0	
26-Jan	ff8s	15	w	40	e	64.94	60	15	0.0	veer .5m L of tree 3-7
26-Jan	ff8s	14	w	40	e	60.1	60	14	0.0	may have wandered 30cm R in middle
26-Jan	ff8s	21	w	40	e	59.97	60	21	0.0	OK , but followed by pll port mode error & battery swap
26-Jan	ff8s	21	w	40	e	60	60	21	0.0	
26-Jan	ff8s	22	w	40	e	60.32	60	22	0.0	cut R of big tree @ 42-47, skirt L of small tree @58
26-Jan	ff8s	23	w	40	e	60.01	60	23	0.0	may have wandered 30cm R in middle
26-Jan	ff8s	24	w	40	e	60.02	60	24	0.0	@20.5= 1m L of ?drain?
26-Jan	ff8s	24	w	40	e	60.06	60	24	0.0	20.5m over ?drain?; cheat L of tree @ 52-54m
26-Jan	ff8s	26	w	40	e	60.11	60	26	0.0	skirt R of tree @41m
26-Jan	ff8s	25	w	40	e	60	60	25	0.0	odo distance unsure
26-Jan	ff8s	27	w	40	e	60.04	60	27	0.0	near pole @49.7m
26-Jan	ff8s	28	w	40	e		60	28	0.0	no good
26-Jan	ff8s	28	w	40	e1	49.73	60	28	0.0	=5 past; name??
26-Jan	ff8s	29	w	40	e	44.65	60	29	0.0	
26-Jan	ff8s	30	w	40	e	60	30	0.0		
26-Jan	ff8s	30	w	40	e1	59.89	60	30	0.0	
6-Feb	fff8s	7.5	w	80	e	179.89	180	7.5	-100	skirt L of big tree @51.5, pass R of 144 stake@144.15(!)
6-Feb	fff8s	06	w	80	e	180.29	180	6	-100	pass 1.5m L of near side of big tree@51.5;
6-Feb	fff8s	12	w	30	e	160.64	160	12	-130	start 1m e of big tree
6-Feb	fff8s	17.5	w	80	e	180.82	180	17.5	-100	at 113m, veer just L of tree
6-Feb	fff8s	35	w	10	e	50.32	50	35	-40	veer R a tad by big tree @ 15m
6-Feb	fff8s	37.5	w	10	e	50.53	50	37.5	-40	
6-Feb	fff8s	42.5	w	40	e	80.37	80	42.5	-40	
6-Feb	fff8s	41	w	40	e	80.41	80	41	-40	at 57m in line with orange flags
6-Feb	fff8s	62.5	w	25	e	65.24	65	62.5	-40	
6-Feb	fff8s	100	w	20	n	95.6	0	5	20	
6-Feb	fff8s	100	w	05	n	90.3	90	10	-85	veer L of big tree @15.5m
6-Feb	fff8s	40	e	02.5	n	35.32	35	5	-33	

NOTES:
'date' = field survey date
'prefix' = data file prefix, indicating Flowerfield survey, with '5' or '8' indicating antenna set (500 or 800), and 's' indicating start south grid location
'start(s) = grid south coordinate of the line start position
'w' or 'e' = indicator of start position (east or west) relative to 0 e-w position
'start(w)' = grid west (or, if negative, east) coordinate of the line start position
'direction' = direction (westward or northward) of line - a number after the letter indicates line repeated, either as a repeatability test or due to data dropout
'odo-dist' = length of line as indicated by the odometer on the GPR-carrying cart
'calc-dist' = length of line as determined using coordinate grid flags
'to S=+ve' = south coordinate position of end of line
',W=+ve' = west coordinate position of end of line (east = negative)
All distances are in meters

Figure 1
Base Map with 500 MHz GPR Lines

Flowerfield GPR Survey
D.M. Davis

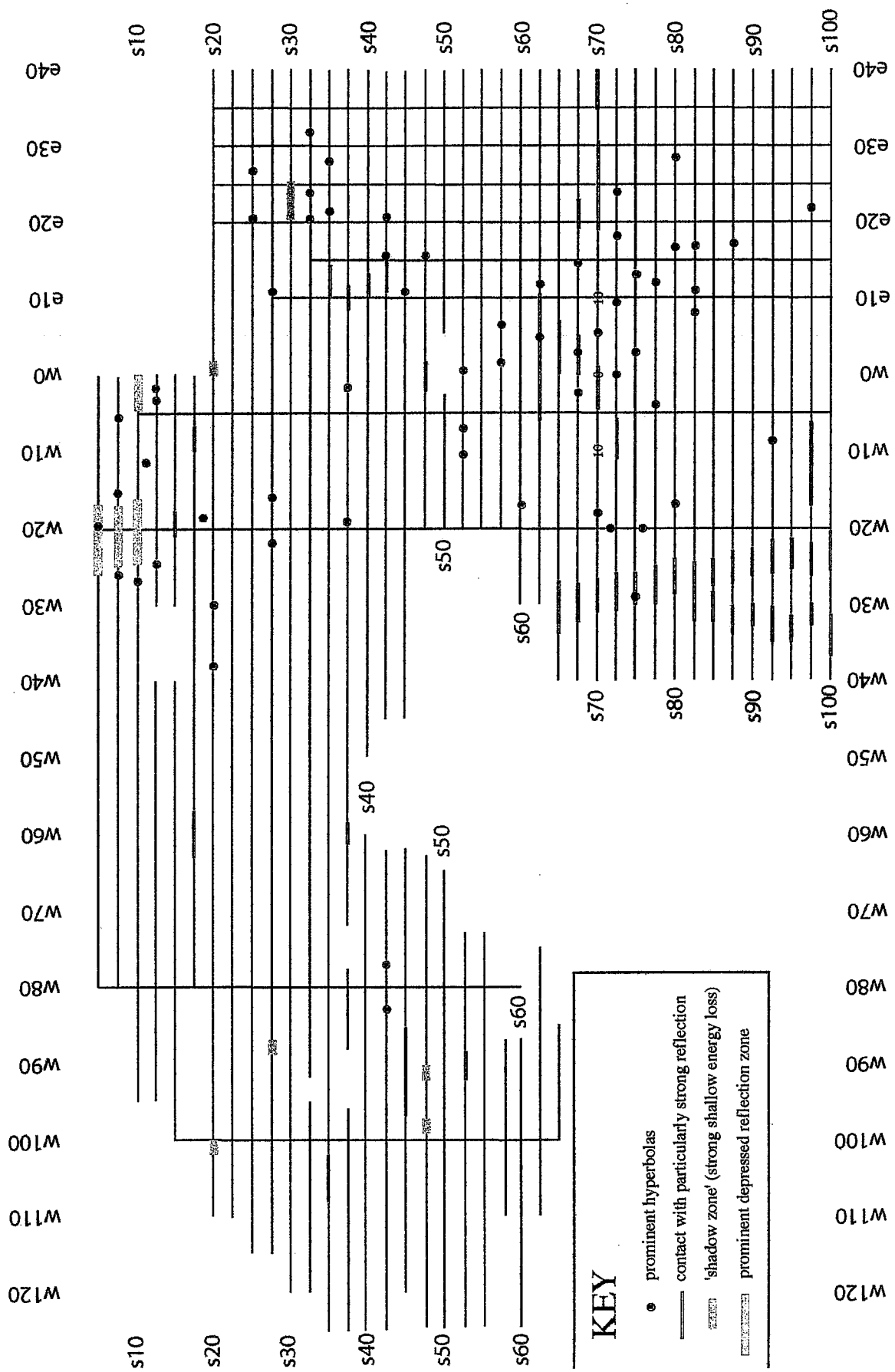
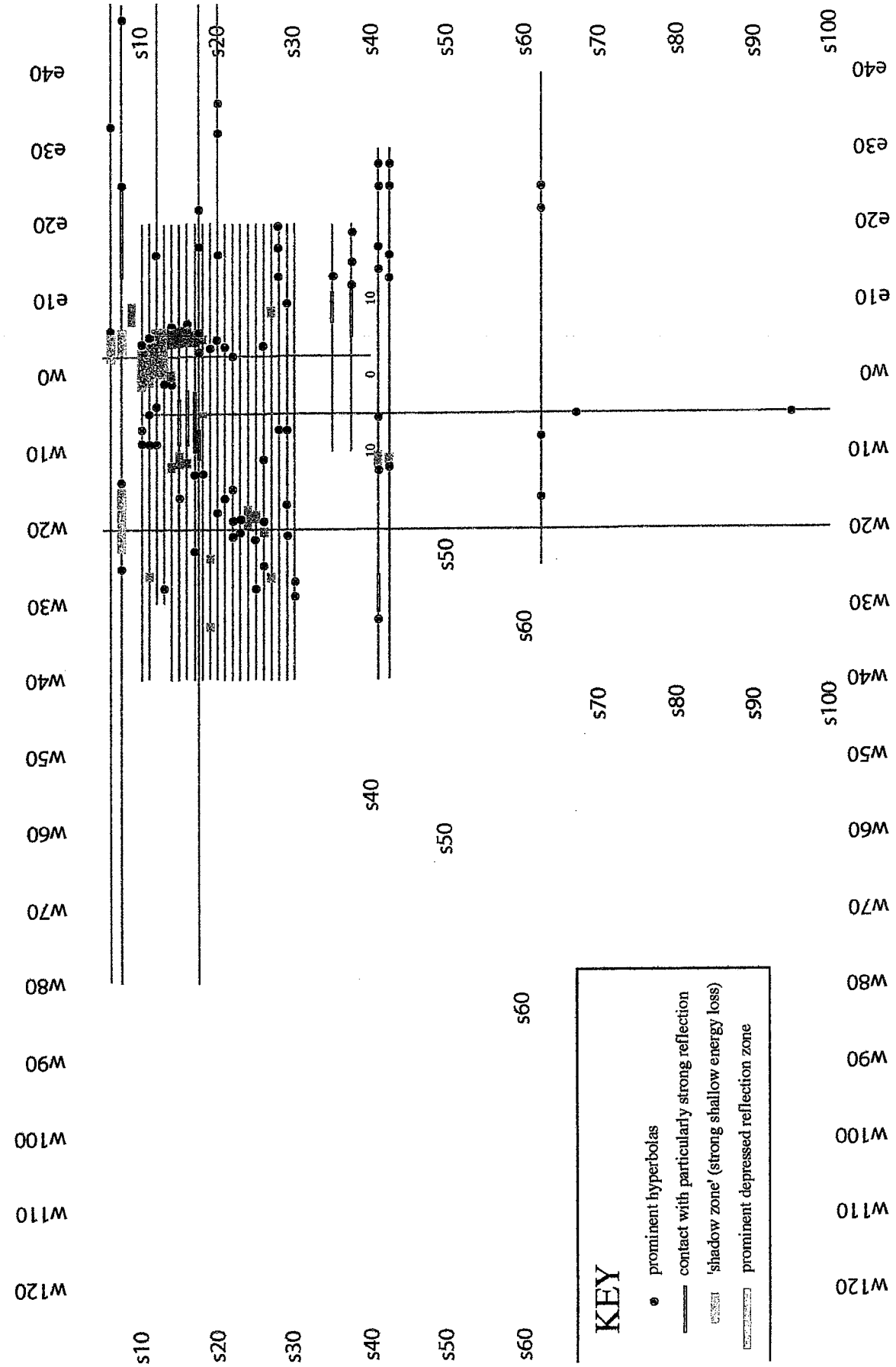


Figure 2
Base Map with 800 MHz GPR Lines

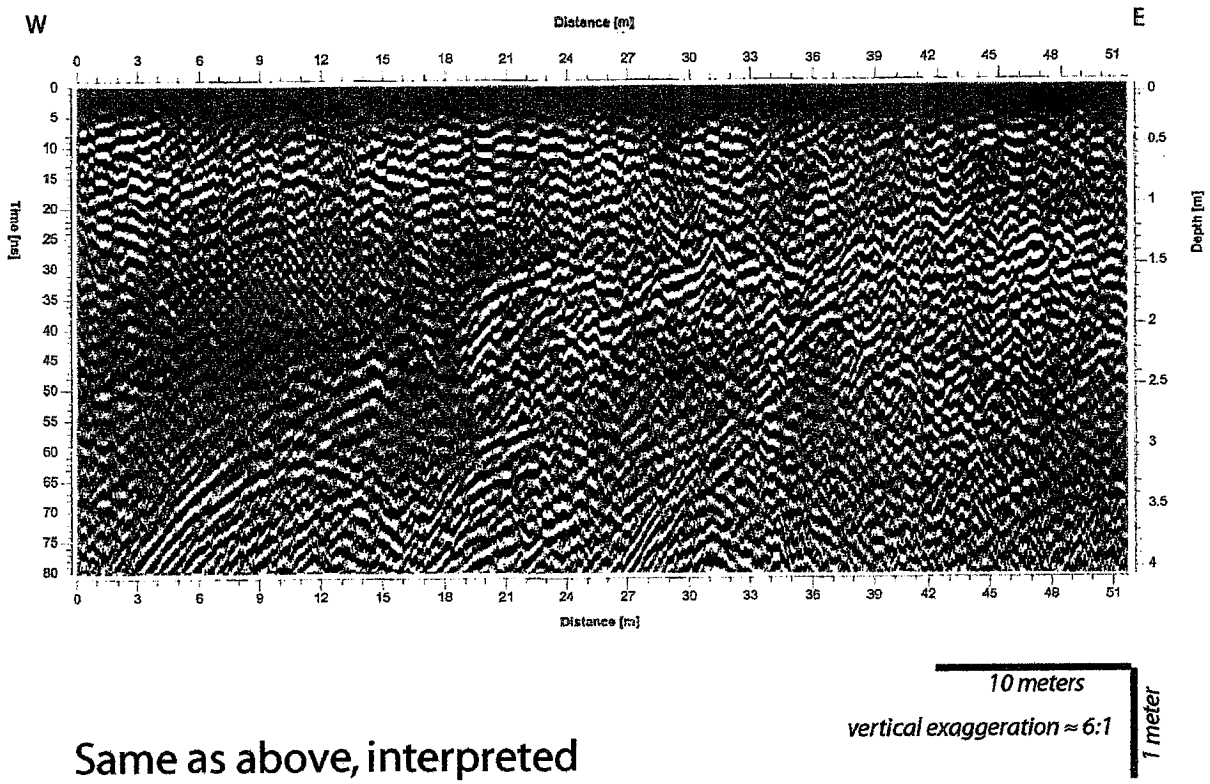


Flowerfield GPR Survey
D.M.Davis

Figure 3
Example of GPR Data

Segment of 500 MHz GPR line from w12 to e40, at s37.5

3a)



Same as above, interpreted

3b)

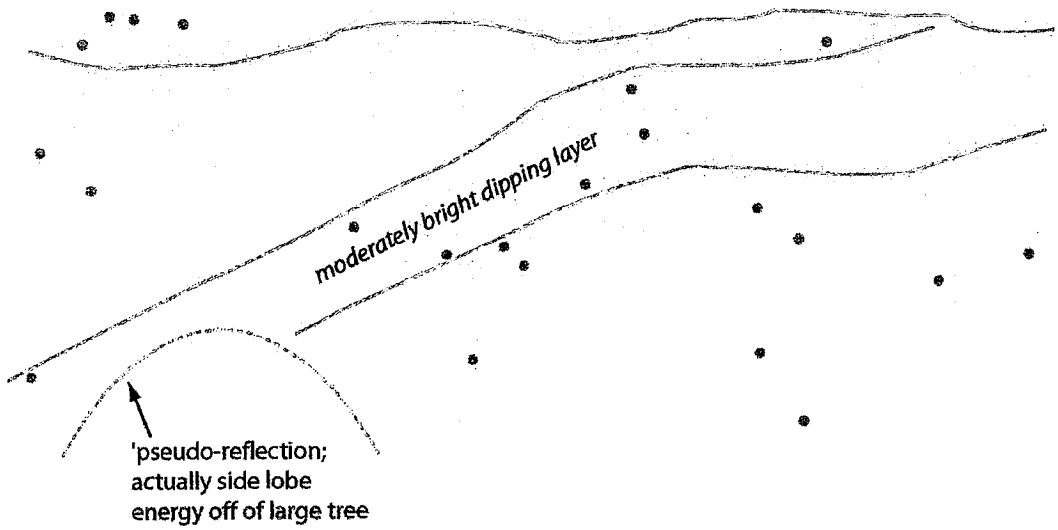
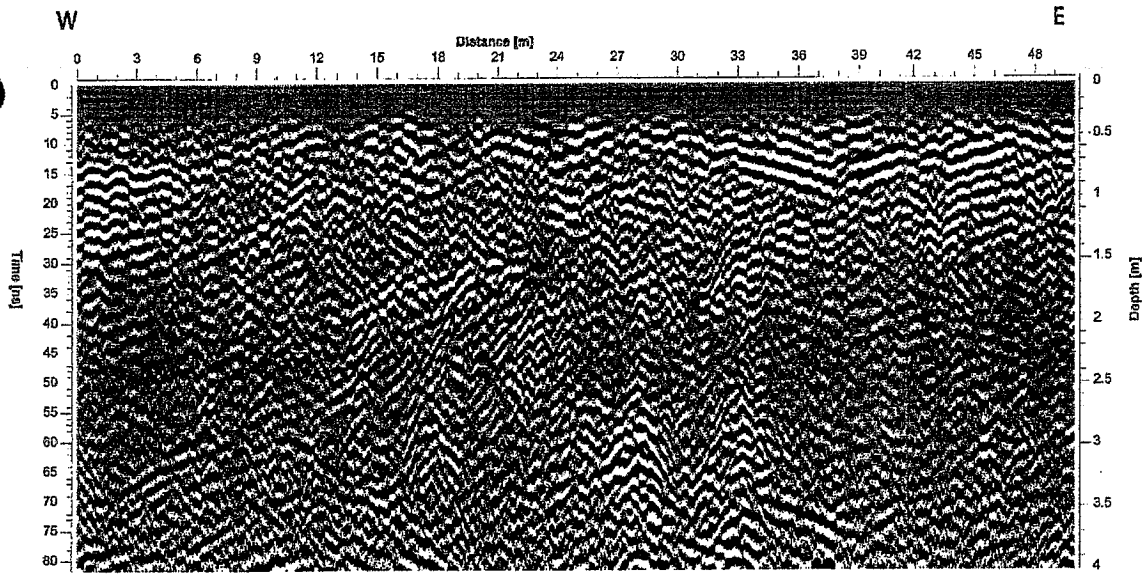


Figure 4
Example of GPR Data

Segment of 500 MHz GPR line from w125 to w75, at s47.5

4a)



Same as above, interpreted

10 meters

vertical exaggeration ≈ 6:1

1 meter

4b)

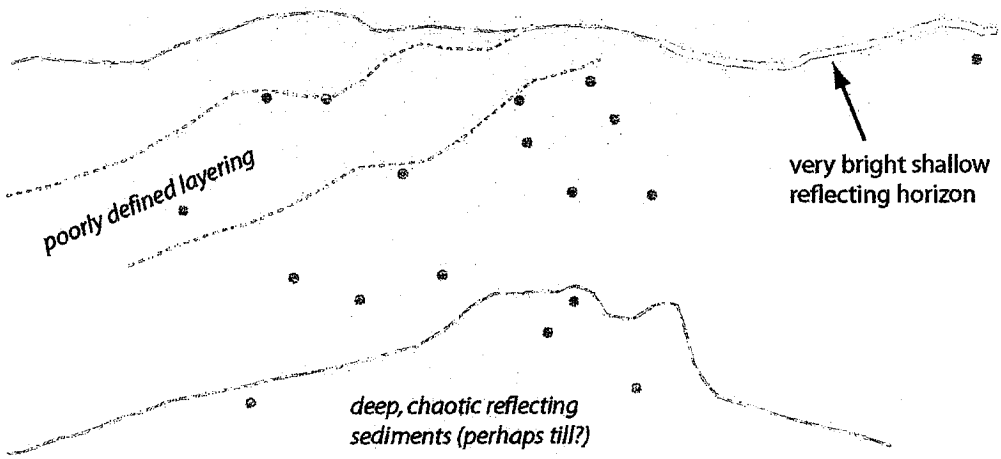
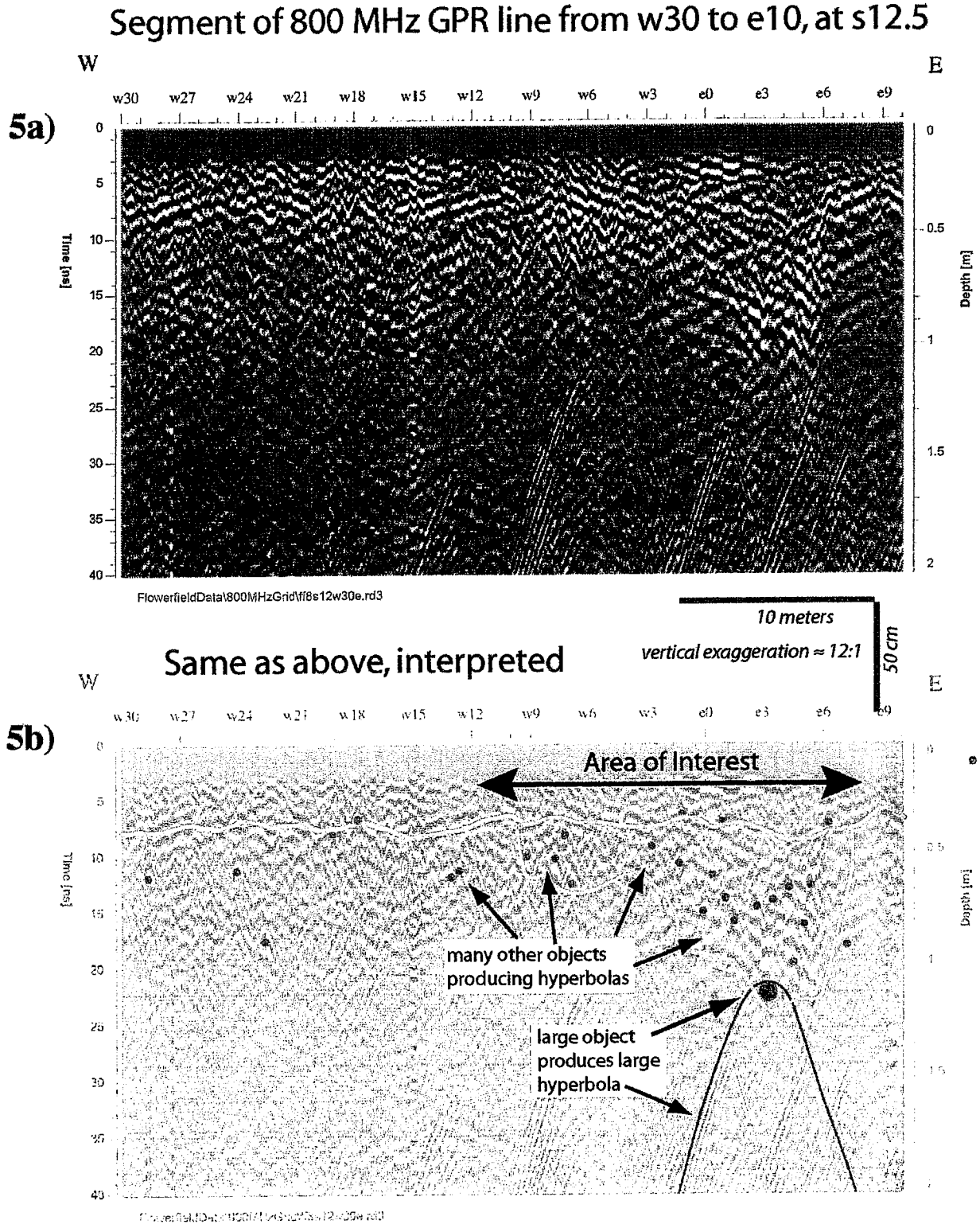


Figure 5
Example of GPR Data



APPENDIX C: EXCAVATION AND ARTIFACT INVENTORY

INTRODUCTION TO APPENDIX C

Basic descriptive data from the project are presented in the following appendices. Appendix A treats the shovel test pits (STPs) from both stages of the investigation and data pertaining to the 1 x 1 meter excavation units are found in Appendix B. Excavation, stratigraphic, and artifactual information are included. Excavation information includes unit coordinates relative to project datum, stratigraphic designation (stratum), and starting (SD) and ending (ED) depths (in centimeters) for each excavated level.

An inventory of the artifacts recovered during the project is found in the final column. All prehistoric stone artifacts from the project, including fire-cracked rock, are analyzed and classified. Quartz debitage flakes (chipping waste) are placed in one of three categories based on the amount of cortex remaining on the dorsal face of a flake. Primary flakes are those with more than 50% of the dorsal face containing cortex. Secondary flakes exhibit cortex over less than 50% of the dorsal face, while tertiary flakes have no cortex remaining. Small tertiary flakes have no dimension greater than one centimeter. Blocks and shatter are angular fragments, always of quartz, which do not show flake scars, but which are still considered products of human manufacturing activities. Bifaces are flaked tools which exhibit substantial modification on both their ventral and dorsal surfaces. Shellfish quantity is expressed as the minimum number of individuals rather than fragment count.

The following abbreviations are used in the appendices:

Stratum	*Soils*	*Cultural Material*
A0/A1-topsoil	bn-brown	b/s- block/shatter
A2-leaching zone	cb-cobbles	fcr-fire-cracked rock
B1-upper subsoil	cl-clay(ey)	frag(s)-fragment(s)
B2-lower subsoil	dk-dark	pri-primary
B3-substratum	gb-gray brown	sec-secondary
bur-buried	gr-gray	tert-tertiary
dist-disturbed	gv-gravel	unid-unidentified
pz-plow zone	lm-loam(y)	
	lt-light	
	md-medium	
	mo-mottled	
	ob-orange brown	
	pb-pebbles	
	sd-sand(y)	
	st-silt(y)	
	vy-very	
	yb-yellow brown	
	yl-yellow	

APPENDIX C: EXCAVATION AND ARTIFACT INVENTORY

Stage 1 Shovel Test Pits

STP	SD	ED	Stratum	Soils	Cultural Material
S7.5/W90	0	7	A0/A1	dk bn st lm	
	7	27	dist	mo ob st sd	
	27	37	lens	gr cl	
	37	60	muck	vy dk bn st lm	
S7.5/W75	0	5	A0/A1	dk bn st lm	
	5	21	dist	ob st lm	
	21	32	lens	gr cl	
	32	60	muck	vy dk bn st lm	
S7.5/W60	0	7	A0/A1	dk bn st lm	
	7	23	dist	ob st sd	
	23	42	dist	md bn sd cl	
	42	62	B2	yb sd cl	
S7.5/W45	0	4	A0/A1	dk bn st lm	
	4	30	pz	mo bn st lm	1 ironstone
	30	60	B2	gr cl	
S7.5/W37.5	0	5	A0/A1	dk bn sd lm	
	5	33	pz	md bn sd lm	2 ironstone, 4 blue printed whiteware, 11 brick, 1 soft clam, 2 animal bone, 1 slag
	33	60	B2	ob sd lm	
S7.5/W30	0	4	A0/A1	dk bn st lm	
	4	28	pz	mo md bn st lm	1 aqua window glass, 1 aqua bottle glass, 2 brown bottle glass, 2 whiteware, 1 brick
	28	60	B2	ob st sd w/pb	
S7.5/W22.5	0	4	A0/A1	dk bn sd lm	
	4	23	pz	md bn lm sd	
	23	60	B2	ob lm sd w/pb&gv	
S7.5/W15	0	4	A0/A1	dk bn sd lm	
	4	12	dist	md bn st lm	1 aqua curved glass, 1 square cut nail
	12	15	lens	gr st cl	
	15	34	dist	md bn st lm	
	34	60	B2	ob sd st	
S7.5/W7.5	0	6	A0/A1	dk bn st lm	
	6	31	pz	mo bn st lm	10 aqua window glass, 5 brick, 1 coal
	31	61	B2	md bn st lm	
S7.5/E0	0	4	A0/A1	dk bn st lm	
	4	31	pz	mo md bn sd lm	1 clear curved glass, 3 aqua flat glass, 1 brick, 1 coal
	31	62	B2	md bn st lm	
S7.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	mo bn sd lm	5 aqua window glass, 1 flowerpot, 3 brick, 2 square cut nails, 1 soft clam, 1 mortar, 1 coal, 3 slag
	32	62	B2	md bn st lm	

STP	SD	ED	Stratum	Soils	Cultural Material
S7.5/E15	0	6	A0/A1	dk bn st lm	
	6	35	dist	mo bn sd lm	1 quartz sec flake, 1 melted glass, 3 brick
	35	60	B2	md bn st lm	
S7.5/E30	0	3	A0/A1	dk bn st lm	
	3	26	pz	mo md bn st lm	
	26	60	B2	ob st lm	
S7.5/E45	0	5	A0/A1	dk bn st lm	
	5	48	pz	md bn sd st	
	48	60	B2	ob st cl	
S7.5/E60	0	4	A0/A1	dk bn st lm	
	4	56	pz	md bn st lm	
	56	60	B2	lt bn st lm	
S7.5/E75	0	6	A0/A1	dk bn st lm	
	6	50	pz	md bn sd st	
	50	60	B2	ob st cl	
S7.5/E90	0	4	A0/A1	dk bn st lm	
	4	24	pz	mo md bn st lm	1 porcelain
	24	60	B2	ob st lm	
S7.5/E105	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st	
	28	63	B2	ob st sd	2 brick, 1 square cut nail, 1 animal bone
S7.5/E120	0	7	A0/A1	dk bn st lm	
	7	28	pz	mo md bn st lm	
	28	60	B2	ob st lm w/pb&gv	
S7.5/E135	0	7	A0/A1	dk bn st lm	
	7	16	pz	md bn st lm	2 pearlware, 1 whiteware
	16	60	B2	ob st cl	
S7.5/E150	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st	
	30	60	B2	ob st cl	
S7.5/E165	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn sd st	
	27	60	B2	ob cl st	
S15/W45	0	5	A0/A1	dk bn sd lm	
	5	28	pz	md bn sd st	1 aqua window glass, 8 brick
	28	60	B2	yb sd cl w/gv&cb	
S15/W37.5	0	5	A0/A1	dk bn sd lm	
	5	24	pz	md bn sd st	1 aqua window glass, 3 pearlware, 4 brick, 1 square cut nail, 1 coal, 1 mortar
	24	60	B2	ob lm sd w/pb&gv	
S15/W30	0	6	A0/A1	dk bn sd lm	
	6	22	pz	md bn sd st w/pb	4 brick
	22	56	B2	ob lm sd w/pb&gv	
S15/W22.5	0	4	A0/A1	dk bn sd lm	
	4	19	pz	md bn sd st w/pb	
	19	26	dist	mo ob sd cl w/pb&gv	1 clear curved glass, 7 brick
	26	53	B2	ob cl sd w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S15/W15	0	5	A0/A1	dk bn sd lm	
	5	22	pz	md bn sd st w/pb&gv	
	22	35	dist	mo ob sd cl w/pb&gv	4 brick
	35	58	B2	ob sd w/pb	
S15/W7.5	0	4	A0/A1	dk bn sd lm	
	4	15	pz	md bn sd st	1 clear curved glass, 1 brown bottle glass, 1 aqua flat glass, 6 brick, 1 square cut nail, 1 wire nail, 7 soft clam, 4 hard clam, 1 coal
	15	26	dist	mo ob sd lm w/pb&gv	
	26	54	dist	mo yb cl	
S15/E0	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn sd lm	1 quartz tert flake, 5 clear curved glass, 1 aqua curved glass, 2 aqua flat glass, 2 green curved glass, 1 whiteware, 1 pearlware, 1 pearlware rim, 1 brick, 3 square cut nails, 1 wire nail, 1 soft clam, 4 coal, 3 slag
S15/E7.5	0	4	A0/A1	dk bn sd lm	
	4	23	pz	md bn sd st	
	23	29	dist	mo yb lm sd w/pb,gv&cb	1 quartz sec flake, 25 whiteware, 5 whiteware rim, 6 flowerpot, 2 brick, 3 square cut nails
	29	50	bur A	md bn cl lm	
	50	60	B2	yb lm w/gr cl	
S15/E15	0	5	A0/A1	dk bn sd lm	
	5	37	dist	mo md bn sd st	1 flowerpot, 2 brick, 2 square cut nails
	37	60	B2	yb sd lm	
S15/E97.5	0	5	A0/A1	dk bn st lm	
	5	49	pz	md bn sd st	
	49	60	B2	ob sd st	
S15/E112.5	0	6	A0/A1	dk bn st lm	
	6	34	pz	md bn sd st	1 aqua flat glass, 1 creamware, 1 pearlware
	34	60	B2	ob sd st	
S15/E127.5	0	6	A0/A1	dk bn st lm	
	6	29	pz	md bn sd st	
	29	60	B2	ob sd st	
S15/E142.5	0	5	A0/A1	dk bn st lm	
	5	36	pz	md bn cl st	
	36	60	B2	ob st cl	
S15/E157.5	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn sd st	1 square cut nail
	30	60	B2	ob cl st	
S22.5/W105	0	4	A0/A1	dk bn st lm	
	4	49	pz	md bn lm st	1 pearlware, 2 asphalt
	49	60	B2	gb st sd	
S22.5/W90	0	6	A0/A1	dk bn st lm	
	6	22	dist	ob st lm	
	22	30	lens	gr cl	
	30	60	muck	vy dk bn st lm	

STP	SD	ED	Stratum	Soils	Cultural Material
S22.5/W75	0	7	A0/A1	dk bn st lm	
	7	35	dist	md bn cl st	
	35	60	dist	ob cl st	
S22.5/W60	0	6	A0/A1	dk bn st lm	
	6	11	pz	md bn sd st	
	11	26	dist	mo ob cl st	
	26	48	dist	md bn cl st	
	48	60	B2	gb cl	
S22.5/W45	0	4	A0/A1	dk bn st lm	
	4	42	pz	md bn sd st	1 aqua window glass, 1 ironstone, 3 brick
	42	60	B2	lt ob cl	
S22.5/W37.5	0	4	A0/A1	dk bn st lm	
	4	40	pz	md bn sd st	1 pearlware, 1 flowerpot, 1 brick, 1 wire nail
	40	60	B2	ob st sd w/pb,gv&cb	
S22.5/W30	0	3	A0/A1	dk bn st lm	
	3	34	pz	md bn sd st	4 clear curved glass, 2 aqua curved glass, 1 brown bottle glass, 2 pearlware, 1 brown printed whiteware, 1 whiteware, 1 Rockingham, 1 brick, 2 unid metal, 1 soft clam
	34	60	B2	ob st sd w/pb,gv&cb	
S22.5/W22.5	0	3	A0/A1	dk bn st lm	
	3	40	pz	md bn sd st	
	40	51	B2	lt ob cl	
S22.5/W15	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn sd st	1 whiteware, 1 brick
	23	42	dist	dk bn cl	
	42	60	B2	lt ob cl	
S22.5/W7.5	0	4	A0/A1	dk bn st lm	
	4	20	pz	md bn sd st	1 aqua window glass, 1 clear window glass, 1 clear curved glass, 5 whiteware, 1 porcelain, 1 pipe stem, 25 brick, 18 square cut nails, 1 hard clam, 2 coal, 2 asphalt
	20	27	lens	md bn sd st	refuse layer w/shell
	27	48	lens	md bn sd st	refuse layer w/brick
	48	62	B2	lt ob cl	
S22.5/E0	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st	2 brick, 5 square cut nails, 1 soft clam
	34	51	dist	dk bn cl sd	1 coal
	51	60	B2	lt ob cl sd	
S22.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn sd st	5 brick
	31	60	B2	lt ob cl sd	
S22.5/E15	0	10	A0/A1	dk bn st lm	
	10	42	pz	md bn sd st	1 creamware, 4 pearlware, 1 square cut nail, 2 coal
	42	60	B2	lt ob cl sd	
S22.5/E30	0	4	A0/A1	dk bn sd lm	
	4	36	pz	mo md bn sd lm	1 aqua window glass, 1 green curved glass
	36	60	B2	ob sd lm w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S22.5/E45	0	4	A0/A1	dk bn st lm	
	4	33	pz	md bn sd st	
	33	62	B2	lt ob cl	
S22.5/E60	0	5	A0/A1	dk bn st lm	
	5	36	pz	mo md bn st lm	
	36	60	B2	ob st lm w/pb	
S22.5/E75	0	7	A0/A1	dk bn st lm	
	7	37	pz	md bn lm st	
	37	60	B2	ob sd st w/pb&cb	
S22.5/E90	0	6	A0/A1	dk bn st lm	
	6	37	pz	md bn sd st	1 creamware, 1 pearlware
	37	60	B2	ob sd st	
S22.5/E105	0	4	A0/A1	dk bn st lm	
	4	36	pz	md bn sd st	1 quartz tert flake
	36	65	B2	ob sd cl	
S22.5/E120	0	3	A0/A1	dk bn st lm	
	3	39	pz	md bn sd st	
	39	62	B2	ob cl	
S22.5/E135	0	5	A0/A1	dk bn st lm	
	5	30	pz	mo md bn st lm	
	30	60	B2	ob st lm w/pb	
S22.5/E150	0	4	A0/A1	dk bn st lm	
	4	30	pz	md bn lm st	
	30	60	B2	ob st cl	
S30/W45	0	5	A0/A1	dk bn st lm	
	5	16	dist	lt bn cl st	1 whiteware rim
	16	60	dist	ob st cl	
S30/W37.5	0	4	A0/A1	dk bn st lm	
	4	39	pz	md bn cl st	
	39	60	B2	lt ob st cl	
S30/W30	0	6	A0/A1	dk bn st lm	
	6	34	pz	md bn cl st	
	34	60	B2	lt ob st cl	
S30/W22.5	0	6	A0/A1	dk bn st lm	
	6	62	dist	mo md bn cl sd w/pb	1 earthenware tile, 1 brick
S30/W15	0	6	A0/A1	dk bn st lm	
	6	57	pz	md bn sd st	1 quartz tert flake, 1 clear curved glass, 1 brown bottle glass, 1 brick, 1 coal
	57	62	B2	ob sd st	
S30/W7.5	0	3	A0/A1	dk bn st lm	
	3	33	pz	md bn cl st	2 brick, 1 charcoal
	33	41	lens	mo ob st cl	
	41	50	dist	mo md bn st cl	
	50	60	B2	ob st cl	
S30/E0	0	4	A0/A1	dk bn st lm	
	4	43	pz	md bn cl st	
	43	60	B2	ob st cl	

STP	SD	ED	Stratum	Soils	Cultural Material
S30/E7.5	0	3	A0/A1	dk bn st lm	
	3	43	pz	md bn cl st	1 whiteware, 1 porcelain, 3 brick, 1 square cut nail
	43	60	B2	ob st cl	
S30/E15	0	6	A0/A1	dk bn st lm	
	6	42	pz	md bn st sd	1 oyster, 4 coal, 7 slag
	42	60	B2	ob cl st	
S30/E97.5	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn lm st	1 porcelain, 1 soft clam
	33	60	B2	ob st sd	
S30/E112.5	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn st lm	1 quartz tert flake, 2 aqua flat glass, 1 charcoal
	25	60	B2	ob st cl	
S30/E127.5	0	5	A0/A1	dk bn sd st	
	5	29	pz	md bn sd st	
	29	60	B2	ob cl st	
S30/E142.5	0	7	A0/A1	dk bn st lm	
	7	33	pz	md bn lm st	1 green curved glass, 1 aqua window glass, 1 pearlware
	33	60	B2	ob st cl	
S30/E157.5	0	5	A0/A1	dk bn st lm	
	5	30	pz	md bn lm st	
	30	60	B2	ob cl st	
S37.5/W120	0	6	A0/A1	dk bn st lm	
	6	29	dist	ob st lm	
	29	37	lens	gr cl	
	37	60	muck	vy dk bn st lm	
S37.5/W105	0	5	A0/A1	dk bn st lm	
	5	43	dist	mo ob st sd	
	43	60	dist	dk bn st cl	
S37.5/W90	0	6	A0/A1	dk bn st lm	
	6	17	dist	mo ob sd st	
	17	60	dist	md bn sd st w/pb	
S37.5/W75	0	4	A0/A1	dk bn st lm	
	4	45	pz	md bn lm sd	1 creamware, 1 polychrome printed whiteware, 2 whiteware, 2 brick, 1 wire nail, 2 asphalt
	45	60	B2	lt bn cl st w/pb	
S37.5/W60	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn lm st	
	29	60	B2	lt bn st cl	
S37.5/W45	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn cl st	1 brick, 1 hard clam, 1 coal, 1 unid
	23	42	dist	dk bn cl st	
	42	60	B2	ob st cl	
S37.5/W37.5	0	3	A0/A1	dk bn st lm	
	3	22	pz	md bn cl st	1 whiteware, 1 wire nail, 1 coal, 1 asphalt, 1 plastic plant label
	22	52	dist	dk bn cl st	
	52	60	B2	ob cl st	

STP	SD	ED	Stratum	Soils	Cultural Material
S37.5/W30	0	4	A0/A1	dk bn st lm	
	4	11	pz	md bn cl st	
	11	57	dist	dk bn cl st	
	57	60	B2	ob st cl	
S37.5/W22.5	0	4	A0/A1	dk bn st lm	
	4	52	dist	md bn cl st	1 pearlware, 20 brick
	52	60	B2	ob st cl	
S37.5/W15	0	5	A0/A1	dk bn st lm	
	5	53	dist	md bn cl st	1 quartz tert flake, 1 whiteware, 2 glazed brick, 7 brick
	53	60	B2	ob st cl	
S37.5/W7.5	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn st lm	
	33	60	B2	ob st lm	
S37.5/E0	0	4	A0/A1	dk bn st lm	
	4	35	pz	md bn st cl	
	35	60	B2	ob st cl	
S37.5/E7.5	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn st lm	
	31	60	B2	ob st lm	
S37.5/E15	0	4	A0/A1	dk bn st lm	
	4	49	pz	md bn st cl	1 aqua window glass, 1 pearlware, 1 brick, 1 hard clam, 1 soft clam, 1 coal
	49	60	B2	ob st cl	
S37.5/E30	0	3	A0/A1	dk bn sd lm	
	3	36	pz	mo md bn sd lm	1 square cut nail
	36	60	B2	ob sd lm	
S37.5/E45	0	5	A0/A1	dk bn sd lm	
	5	49	pz	md bn st sd	
	49	60	B2	ob st sd	
S37.5/E65	0	6	A0/A1	dk bn st lm	
	6	35	pz	mo md bn st lm	1 quartz tert flake
	35	60	B2	ob st lm	
S37.5/E75	0	6	A0/A1	dk bn st lm	
	6	33	pz	md bn lm st	
	33	60	B2	ob sd st w/pb&gv	
S37.5/E90	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st	
	34	60	B2	ob sd st	
S37.5/E105	0	5	A0/A1	dk bn st lm	
	5	31	pz	md bn sd st	
	31	60	B2	ob st cl	
S37.5/E120	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn cl st	
	23	60	B2	ob st cl	
S37.5/E135	0	7	A0/A1	dk bn st lm	
	7	24	pz	mo md bn st lm	
	24	60	B2	ob st lm w/pb&gv	

STP	SD	ED	Stratum	Soils	Cultural Material
S37.5/E150	0	4	A0/A1	dk bn st lm	
	4	29	pz	md bn lm st	
	29	60	B2	ob st cl	
S45/W45	0	5	A0/A1	dk bn st lm	
	5	34	dist	mo bn st lm	1 clear curved glass, 1 aqua window glass, 1 glazed brick, 1 brick
	34	62	B2	ob st lm	
S45/W37.5	0	4	A0/A1	dk bn st lm	
	4	20	dist	mo bn st lm	
S45/W30	0	5	A0/A1	dk bn st lm	
	5	23	dist	lt bn st lm	
	23	60	B2	ob st lm	
S45/W22.5	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn st lm	
	35	60	B2	ob st sd	
S45/W15	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn sd st	4 pearlware, 5 brick, 2 shingle
	34	60	B2	yb cl sd	
S45/W7.5	0	6	A0/A1	dk bn st lm	
	6	21	pz	md bn sd st	
	21	61	B2	yb cl	
S45/E0	0	5	A0/A1	dk bn sd lm	
	5	38	pz	md bn lm sd	
S45/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd st	
S45/E15	0	9	A0/A1	dk bn sd lm	
	9	36	pz	md bn lm sd	
	36	60	B2	dk yb lm sd	
S45/E97.5	0	4	A0/A1	dk bn st lm	
	4	27	pz	md bn cl	
	27	60	B2	ob cl	
S45/E112.5	0	3	A0/A1	dk bn st lm	
	3	30	pz	md bn st cl	
	30	61	B2	ob st cl	
S45/E127.5	0	6	A0/A1	dk bn st cl	
	6	34	pz	md bn sd st	1 creamware
	34	60	B2	ob cl st	
S45/E142.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn st cl	1 soft clam
	32	60	B2	ob st cl	
S45/E157.5	0	4	A0/A1	dk bn st lm	
	4	33	pz	md bn sd cl	
	33	62	B2	ob st cl	
S52.5/W105	0	4	A0/A1	dk bn st lm	
	4	47	pz	md bn lm st	3 aqua window glass, 3 whiteware, 1 unid earthenware, 1 coal, 1 slag
	47	60	B2	ob st sd w/pb&gv	
S52.5/W90	0	6	A0/A1	dk bn st lm	
	6	41	dist	md bn sd st	
	41	60	B2	ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S52.5/W75	0	4	A0/A1	dk bn st lm	
	4	23	pz	md bn sd st	
	23	62	B2	lt ob st sd w/pb,gv&cb	
S52.5/W15	0	4	A0/A1	dk bn st lm	
	4	34	pz	mo md bn st lm	1 solarized curved glass, 1 green curved glass
	34	60	B2	ob st lm	
S52.5/W7.5	0	6	A0/A1	dk bn st lm	
	6	52	dist	md bn st sd	
S52.5/E7.5	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn sd st	1 aqua flat glass, 1 stoneware
	28	60	B2	ob st sd	
S52.5/E15	0	8	A0/A1	dk bn st lm	
	8	11	pz	md bn st lm	
	11	60	B2	ob st lm	
S52.5/E30	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn sd st	
	35	61	B2	ob st sd	
S52.5/E45	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn sd st	
	33	52	B2	ob st sd	
S52.5/E65	0	4	A0/A1	dk bn lm st	
	4	30	pz	mo md bn st lm	
	30	60	B2	dk bn st lm	
S52.5/E75	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn lm st	1 aqua safety glass, 1 brick
	25	60	B2	ob lm st	
S52.5/E90	0	5	A0/A1	dk bn st lm	
	5	27	pz	md bn st sd	
	27	60	B2	ob st sd	
S52.5/E105	0	3	A0/A1	dk bn st lm	
	3	31	pz	md bn sd st	
	31	64	B2	ob st sd	
S52.5/E120	0	2	A0/A1	dk bn st lm	
	2	41	pz	mo md bn st lm	
	41	61	B2	ob st lm w/pb	
S52.5/E135	0	6	A0/A1	dk bn st lm	
	6	28	pz	mo md bn st lm	
	28	60	B2	ob st lm w/pb&gv	
S52.5/E150	0	7	A0/A1	dk bn st lm	
	7	30	pz	md bn cl st	
	30	60	B2	ob st cl	
S60/W22.5	0	4	A0/A1	dk bn st lm	
	4	38	pz	md bn sd st	
	38	60	B2	lt ob st cl	
S60/W15	0	3	A0/A1	dk bn st lm	
	3	34	pz	md bn sd st	
	34	54	B2	lt ob st cl	

STP	SD	ED	Stratum	Soils	Cultural Material
S60/W7.5	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn sd st	
	31	60	B2	ob st sd	
S60/E0	0	4	A0/A1	dk bn st lm	
	4	31	pz	md bn sd st	
	31	43	B2	ob st sd	
S60/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd st	
	32	61	B2	ob st sd	
S60/E15	0	5	A0/A1	dk bn st lm	
	5	23	pz	md bn sd st	
	23	64	B2	lt ob st sd	1 creamware
S60/E97.5	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn st lm	
	29	60	B2	ob st lm	
S60/E112.5	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn st lm	
	32	60	B2	ob st lm	
S60/E127.5	0	8	A0/A1	dk bn st lm	
	8	32	pz	md bn st lm	2 quartz tert flakes
	32	60	B2	ob st lm	
S60/E142.5	0	5	A0/A1	dk bn st lm	
	5	29	pz	md bn st lm	2 whiteware
	29	60	B2	ob st lm	
S60/E157.5	0	6	A0/A1	dk bn st lm	
	6	25	pz	md bn st lm	
	25	60	B2	ob st lm	
S67.5/W90	0	3	A0/A1	dk bn st lm	
	3	35	pz	md bn sd st	1 brick, 1 wire nail, 1 slag
	35	61	B2	ob st sd w/pb,gv&cb	
S67.5/W22.5	0	4	A0/A1	dk bn st lm	
	4	39	pz	md bn cl st	1 aqua window glass, 2 brick, 1 coal
	39	60	B2	ob st cl	
S67.5/W15	0	4	A0/A1	dk bn st lm	
	4	39	pz	md bn sd st	
	39	60	B2	ob sd st	
S67.5/W7.5	0	4	A0/A1	dk bn st lm	
	4	42	pz	md bn sd st	1 unid earthenware, 2 brick
	42	60	B2	ob sd st	
S67.5/E0	0	5	A0/A1	dk bn st lm	
	5	43	pz	md bn sd st	
	43	60	B2	ob sd st	
S67.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	51	pz	md bn sd st	4 clear curved glass, 2 square cut nails, 1 brass furniture ornament, 1 rubber frag
	51	60	B2	ob sd st	
S67.5/E15	0	5	A0/A1	dk bn st lm	
	5	48	pz	md bn sd st	
	48	60	B2	ob sd st	

STP	SD	ED	Stratum	Soils	Cultural Material
S67.5/E30	0	8	A0/A1	dk bn sd lm	
	8	42	pz	md bn sd st	1 quartz pri flake
	42	60	B2	ob sd st	
S67.5/E45	0	5	A0/A1	dk bn sd lm	
	5	51	pz	md bn st sd	1 square cut nail
	51	60	B2	ob st sd	
S67.5/E62	0	5	A0/A1	dk bn st lm	
	5	26	pz	mo md bn st lm	
	26	60	B2	ob st lm	
S67.5/E75	0	6	A0/A1	dk bn st lm	
	6	31	pz	md bn lm st	
	31	60	B2	ob st lm	
S67.5/E90	0	4	A0/A1	dk bn sd lm	
	4	30	pz	md bn st sd	
	30	60	B2	ob st sd	
S67.5/E105	0	3	A0/A1	dk bn st lm	
	3	40	pz	md bn sd st	
	40	61	B2	ob st sd	
S67.5/E120	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd st	
	32	62	B2	ob sd cl	
S67.5/E135	0	4	A0/A1	dk bn st lm	
	4	34	pz	md bn sd st	
	34	60	B2	ob st sd	
S67.5/E150	0	3	A0/A1	dk bn lm	
	3	30	pz	md bn sd st	
	30	62	B2	ob st sd	
S75/E97.5	0	6	A0/A1	dk bn st lm	
	6	32	pz	md bn st lm	1 quartz tert flake
	32	60	B2	ob st lm	
S75/E112.5	0	5	A0/A1	dk bn st lm	
	5	39	pz	md bn lm st	1 quartz sec flake, 2 brick, 1 charcoal
	39	60	B2	ob cl st	
S75/E127.5	0	4	A0/A1	dk bn st lm	
	4	19	pz	lt bn sd st	
	19	45	dist	md bn sd st w/pb	1 quartz pri flake, 2 pipe stems, 1 brick, 1 square cut nail
	45	60	B2	ob sd st	
S75/E142.5	0	6	A0/A1	dk bn st lm	
	6	30	pz	md bn st lm	
	30	60	B2	ob st lm	
S82.5/W22.5	0	4	A0/A1	dk bn sd lm	
	4	40	pz	md bn sd lm w/pb,gv&cb	
	40	60	B2	ob sd st w/pb,gv&cb	
S82.5/W15	0	4	A0/A1	dk bn sd lm	
	4	44	pz	md bn sd lm w/gv	
	44	60	B2	lt bn sd cl	

STP	SD	ED	Stratum	Soils	Cultural Material
S82.5/W7.5	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn sd lm	
	32	60	B2	lt ob cl st	
S82.5/E0	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn lm st	1 argillite tert flake, 1 brick
	32	60	B2	ob st sd w/pb	
S82.5/E7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	md bn sd lm	
	32	60	B2	ob st cl w/gv	
S82.5/E15	0	4	A0/A1	dk bn st lm	
	4	19	pz	md bn sd st w/gv&cb	1 whiteware rim
	19	42	B2	ob lm st w/cb	
S82.5/E30	0	6	A0/A1	dk bn st lm	
	6	29	pz	md bn lm st	
	29	60	B2	ob lm st	
S82.5/E45	0	6	A0/A1	dk bn st lm	
	6	23	pz	md bn st lm	
	23	60	B2	ob st cl	
S82.5/E62	0	5	A0/A1	dk bn st lm	
	5	31	pz	mo md bn st lm	
	31	60	B2	ob st lm w/pb&gv	
S82.5/E75	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn lm st	
	33	60	B2	ob st lm	
S82.5/E90	0	5	A0/A1	dk bn sd lm	
	5	41	pz	md bn st sd	
	41	60	B2	ob st sd	
S82.5/E105	0	5	A0/A1	dk bn st lm	
	5	41	pz	md bn sd st	
	41	60	B2	ob st sd	
S82.5/E120	0	5	A0/A1	dk bn st lm	
	5	33	pz	md bn lm st	
	33	60	B2	ob cl st	
S82.5/E135	0	5	A0/A1	dk bn st lm	
	5	35	pz	md bn cl st	
	35	60	B2	ob st cl	
S82.5/E150	0	6	A0/A1	dk bn st lm	
	6	28	pz	md bn cl st	
	28	60	B2	ob st cl	
S97.5/W22.5	0	4	A0/A1	dk bn st lm	
	4	36	pz	mo md bn cl	
	36	61	B2	ob st lm w/pb,gv&cb	
S97.5/W15	0	4	A0/A1	dk bn sd lm	
	4	36	pz	mo md bn sd lm	1 clear curved glass, 1 brick, 2 square cut nails
	36	60	B2	ob sd lm	
S97.5/W7.5	0	4	A0/A1	dk bn st lm	
	4	32	pz	mo md bn sd lm	
	32	60	B2	ob sd lm w/pb	

STP	SD	ED	Stratum	Soils	Cultural Material
S97.5/E0	0	4	A0/A1	dk bn sd lm	
	4	36	pz	mo md bn sd lm	
	36	60	B2	ob sd lm w/pb,gv&cb	
S97.5/E7.5	0	5	A0/A1	dk bn sd lm	
	5	28	pz	mo md bn sd lm	
	28	60	B2	ob sd lm	
S97.5/E15	0	4	A0/A1	dk bn sd lm	
	4	33	pz	mo md bn sd lm	
	33	60	B2	ob sd lm	
S97.5/E30	0	4	A0/A1	dk bn sd lm	
	4	24	pz	mo md bn sd lm	
	24	60	B2	ob sd cl	
S97.5/E45	0	4	A0/A1	dk bn sd lm	
	4	31	pz	mo md bn sd lm	
	31	60	B2	ob sd lm w/pb&gv	
S97.5/E62	0	4	A0/A1	dk bn st lm	
	4	32	pz	mo md bn st sd	
	32	60	B2	ob st lm w/pb&gv	
S97.5/E75	0	5	A0/A1	dk bn st lm	
	5	32	pz	md bn lm st	
	32	60	B2	ob st lm w/pb&gv	
S97.5/E90	0	5	A0/A1	dk bn sd lm	
	5	34	pz	md bn st sd	
	34	60	B2	ob st sd	
S97.5/E105	0	3	A0/A1	dk bn st lm	
	3	43	pz	md bn sd st	
	43	60	B2	ob st sd	
S97.5/E120	0	7	A0/A1	dk bn st lm	
	7	26	pz	md bn cl st	1 quartz tert flake
	26	60	B2	ob st cl	
S97.5/E130	0	4	A0/A1	dk bn st lm	
	4	30	pz	md bn sd lm	1 aqua curved glass, 1 aqua safety glass
	30	60	B2	ob sd st	
S97.5/E150	0	5	A0/A1	dk bn st lm	
	5	28	pz	md bn lm st	1 creamware, 1 aqua flat glass
	28	60	B2	ob st cl	

1 x 1 Meter Excavation Units

S12/E5

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	3	A0/A1	dk bn sd lm	1 whiteware, 2 plastic, 1 asphalt
2	3	13	dist	md bn sd lm	1 aqua window glass, 3 clear flat glass, 1 whiteware, 1 flowerpot, 1 red brick, 1 unid metal, 1 hard shell clam, 2 coal, 1 slag, 2 plastic
3	13	23	dist	md bn lm sd w/pb,gv&cb	1 quartz tert flake, 2 brown bottle glass, 2 aqua bottle glass, 4 clear bottle glass, 1 glass lens, 8 aqua window glass, 4 clear window glass, 1 creamware, 1 pearlware rim, 1 whiteware, 5 flowerpot, 2 red brick, 4 square cut nail, 2 unid nail, 3 metal can frags, 1 hard shell clam, 1 mortar, 6 coal, 12 slag
4	23	33	dist	mo md bn st sd w/pb,gv&cb	1 quartz pri flake, 1 quartz tert flake, 1 brown bottle glass, 3 clear bottle glass, 1 solarized bottle glass, 4 aqua bottle glass, 1 white lamp glass, 21 aqua window glass, 2 clear window glass, 1 melted glass, 3 pearlware, 5 flowerpot, 4 orange brick, 12 square cut nail, 4 unid nail, 1 unid metal, 4 coal, 2 slag, 1 tar shingle
5A	33	43	dist	mo md bn st sd w/pb,gv&cb	2 aqua bottle glass, 3 aqua flat glass, 5 clear flat glass, 1 white lamp glass, 1 green painted creamware rim, 1 black printed whiteware, 1 ironstone, 1 unid earthenware, 1 gray stoneware, 2 orange brick, 8 red brick, 9 square cut nail, 16 unid nail, 11 metal can frags, 1 large metal plate, 5 coal, 3 slag, 1 tar shingle
5B	32	45	dist	lt yb sd w/gv	1 broken whiteware teapot, 2 ironstone rim, 1 ironstone, 2 red brick, 8 beer can, 2 unid cans, 30 metal can frags, 2 square cut nail, 1 spike, 1 metal rod, 1 bottle cap, 1 large metal slab, 2 burned wood
6A	43	53	dist	mo md bn st sd w/pb,gv&cb	2 clear curved glass, 3 aqua window glass, 2 whiteware teapot frags, 1 orange brick, 1 square cut nail, 1 wire nail, 7 metal can frags, 1 aluminum orange juice can, 2 slag
6B	45	55	dist	mo ob st sd w/gv	5 aqua bottle glass, 1 yellow curved glass, 1 clear flat glass, 2 printed whiteware rim, 1 porcelain rim, 1 orange brick, 1 square cut nail, 8 wire nail, 11 metal can frags, 1 burned wood, 1 coal, 1 slag, 1 plastic
7A	53	61	dist	lt yb sd w/gv	1 quartz sec flake, 1 quartz tert flake, 1 aqua bottle glass, 2 whiteware teapot frags, 2 broken whiteware plate, 8 wire nail, 1 metal bolt and bracket, 55 metal can frags, 5 burned wood
8	55	65	dist	mo md bn st sd w/pb,gv&cb	1 quartz pri flake, 1 quartz sec flake, 1 quartz tert flake, 18 aqua bottle glass, 1 clear window glass, 1 creamware rim, 2 whiteware rim, 2 red brick, 1 square cut nail, 6 wire nail, 66 metal can frags, 2 bottle caps, 1 vinyl record frag, 3 burned wood, 6 slag
9A	65	71	dist	mo md bn st sd	15 aqua bottle glass, 4 melted glass, 1 clear window glass, 1 orange brick, 3 square cut nail, 1 wire nail, 200 metal can frags
9B	65	75	dist	mo md bn st sd	7 clear bottle glass, 2 clear curved glass, 1 broken carnival glass compote, 3 orange brick, 3 red brick, 2 wire nail, 27 metal can frags, 1 metal hose clamp, 1 large mammal bone, 2 bird long bones, 5 unid animal bone, 40 rubber frags
10A	71	77	dist	mo gb cl sd w/pb&gv	4 aqua bottle glass, 3 red brick, 1 beer can, 79 metal can frags, 1 bottle cap, 1 mammal rib, 5 unid animal bone, 1 peach pit, 1 coal, 1 slag, 2 plastic

Level	SD	ED	Stratum	Soils	Cultural Material
10B	75	85	dist	mo md bn st sd	5 brown bottle glass, 15 aqua bottle glass, 38 clear bottle glass, 15 clear window glass, 3 orange brick, 4 red brick, 16 wire nail, 1 metal hook, 200 metal can frags, 2 butchered cow long bones, 2 bird long bones, 1 cloth frag, 6 rubber
11A	77	87	dist	mo md bn st sd	1 aqua bottle glass, 1 clear glass, 90 metal can frags, 1 cloth frag, 1 plastic
12	85	95	dist	md bn st sd	16 brown bottle glass, 18 aqua bottle glass, 3 carnival glass compote frags, 50 clear bottle glass, 25 clear window glass, 1 ironstone, 5 orange brick, 8 red brick, 3 wire nail, 140 metal can frags, 3 wire, 1 peach pit, 1 mortar, 1 plastic
13	95	105	dist	md bn st sd	1 aqua bottle glass, 8 brown bottle glass, 19 clear bottle glass, 1 orange brick, 1 red brick, 10 wire nail, 18 metal can frags, 4 wire, 1 bird long bone, 2 wood, 2 leather shoe frags, 1 plastic
14	105	115	dist	md bn st sd	4 brown bottle glass, 20 clear bottle glass, 1 orange brick, 1 red brick, 1 wire nail, 8 metal can frags, 1 metal strap, 1 staple, 1 horseshoe, 1 leather shoe, 9 mortar
15	115	125	dist	md bn st sd	6 brown bottle glass, 4 aqua bottle glass, 60 clear bottle glass, 1 aqua window glass, 3 orange brick, 3 red brick, 24 wire nail, 1 spike, 13 metal can frags, 4 copper wire, 1 cow long bone, 1 peach pit, 4 mortar
16	125	135	dist	mo md bn st sd w/cl	1 brown bottle, 1 brown bottle glass, 1 clear glass mustard jar, 1 clear glass bottle, 28 clear bottle glass, 1 orange brick, 10 red brick, 22 wire nail, 1 metal can frag, 3 bottle cap, 4 mortar

A = west half of unit; B = east half

S14/E0

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	5	A0/A1	dk bn sd lm	2 whiteware, 1 red brick
2	5	15	pz	md bn sd st	3 aqua bottle glass, 1 amber bottle glass, 1 clear bottle glass, 3 clear curved glass, 8 aqua window glass, 1 creamware, 1 green painted pearlware, 2 whiteware rim, 4 whiteware, 4 flowerpot frags, 3 orange brick, 4 square cut nail, 1 hard shell clam, 1 coal, 2 asphalt, 4 plastic, 2 styrofoam
3	15	25	pz	md bn sd st	2 quartz tert flake, 1 clear soft drink bottle glass, 2 dark green bottle glass, 2 green bottle glass, 2 amber bottle glass, 3 aqua bottle glass, 1 yellow pressed glass, 1 clear etched drinking glass, 9 clear curved glass, 2 clear lamp glass, 1 light blue lamp glass, 37 aqua window glass, 7 clear window glass, 2 melted glass, 1 creamware, 1 whiteware rim, 4 whiteware, 3 ironstone rim, 6 ironstone, 5 flowerpot frags, 16 orange brick, 10 red brick, 22 square cut nail, 5 wire nail, 1 staple, 3 metal can frags, 1 brass fastener, 1 shot gun shell casing, 1 unid metal, 1 oyster, 11 coal, 14 slag, 1 asphalt, 2 plastic
4	25	29	pz	md bn sd st	1 clear bottle glass, 1 aqua bottle glass, 2 clear curved glass, 3 clear lamp glass, 1 light blue lamp glass, 13 aqua window glass, 4 ironstone, 1 porcelain rim, 1 porcelain, 1 flowerpot frag, 8 orange brick, 2 red brick, 8 square cut nail, 2 wire nail, 4 hard shell clam, 3 coal, 2 slag, 1 mortar, 5 asphalt, 4 charcoal
5	29	31	dist	md bn sd st w/cl	1 yellow pressed glass, 1 clear bottle glass, 1 aqua bottle glass, 3 clear curved glass, 5 aqua window glass, 1 creamware, 1 whiteware rim, 2 whiteware, 1 ironstone, 1 flowerpot frag, 10 orange brick, 5 red brick, 6 square cut nail, 7 wire nail, 1 screw, 8 metal can frags, 3 bottle cap, 2 mortar, 1 concrete, 7 burned wood, 1 asphalt
6	31	36	dist	yl sd	1 clear bottle glass, 2 aqua bottle glass, 3 clear curved glass, 3 aqua window glass, 1 clear glass insulator, 1 whiteware rim, 2 ironstone, 1 unid earthenware, 1 salt glazed stoneware, 1 flowerpot frag, 14 orange brick, 10 square cut nail, 11 wire nail, 7 metal can frags, 1 bottle cap, 1 metal cylinder, 1 foil, 1 hard shell clam, 19 burned wood, 1 slate tile, 1 coal, 6 slag
7	36	46	dist	md bn sd st w/cl	1 quartz core, 2 fcr, 14 clear curved glass, 1 clear drinking glass rim, 5 dark green bottle glass, 1 green bottle glass, 2 brown bottle glass, 1 yellow glass stopper, 3 clear lamp glass, 1 white glass, 8 aqua window glass, 2 melted glass, 2 yelloware, 2 ironstone rim, 3 ironstone base, 9 ironstone, 12 orange brick, 4 red brick, 7 square cut nail, 1 wire nail, 1 spike, 12 metal can frags, 1 copper wire, 1 foil, 1 unid large mammal bone, 2 hard shell clam, 1 soft shell clam, 1 oyster, 5 burned wood
8	46	56	dist	md bn sd st w/cl	1 mottled hollowware glass, 13 clear curved glass, 11 aqua bottle glass, 1 light green bottle glass, 5 dark green bottle glass, 4 brown bottle glass, 1 solarized bottle glass, 4 clear bottle glass, 1 light blue lamp glass, 3 clear lamp glass, 6 aqua window glass, 2 clear window glass, 6 melted glass, 1 creamware, 1 blue printed pearlware, 1 red printed broken whiteware cup, 2 whiteware rim, 4 whiteware, 1 stamped ironstone base, 1 ironstone cup base, 5 ironstone rim, 8 ironstone, 1 white salt glazed stoneware rim, 1 gray salt glazed stoneware, 1 broken green printed porcelain cup, 1 porcelain rim, 3 porcelain, 17 orange brick, 4 red brick, 40 square cut nail, 42 wire nail, 2 screw, 4 staple, 1 metal hinge, 1 saw blade, 1 metal utensil handle, 1 eyelet, 4 metal pipe frags, 40 metal can frags, 1 bottle cap, 7 unid metal, 3 hard shell clam, 2 oyster, 16 burned wood, 2 concrete, 13 coal, 30 slag, 1 plastic

Level	SD	ED	Stratum	Soils	Cultural Material
9	56	66	dist	md bn sd st w/cl	2 complete Borden milk bottle, 8 clear bottle glass, 8 dark green bottle glass, 15 aqua bottle glass, 3 amber bottle glass, 13 clear curved glass, 2 clear etched curved glass, 2 fluted curved clear glass, 2 clear curved glass rim, 3 white lamp glass, 5 clear lamp glass, 2 clear flat glass, 1 aqua molded flat glass, 12 aqua window glass, 58 clear window glass, 1 black glass button, 8 melted glass, 2 whiteware, 3 ironstone plate rim, 1 ironstone plate base, 3 ironstone rim, 24 ironstone, 1 porcelain toy creamer lid, 1 painted porcelain cup rim, 1 porcelain saucer base, 2 buff salt glazed stoneware, 32 orange brick, 6 red brick, 6 stamped brick, 1 metal military button, 41 square cut nail, 67 wire nail, 7 staple, 1 hook, 2 wire, 8 metal pipe frags, 2 saw blade, 1 metal wire milk crate, 1 c-clamp, 1 bottle cap, 1 shotgun shell casing, 1 copper strap, 1 bone button, 2 large mammal long bone, 1 mammal vertebra, 6 mammal rib, 1 mammal tooth, 5 hard shell clam, 5 oyster, 19 burned wood, 2 wood with paint
10	66	76	dist	gb sd st w/cl	5 brown bottle glass, 7 aqua bottle glass, 1 dark green bottle glass, 8 clear curved glass, 1 white lamp glass, 3 clear lamp glass, 9 aqua window glass, 26 clear window glass, 3 slipware, 2 whiteware rim, 1 black printed whiteware, 4 ironstone, 1 porcelain button, 59 orange brick, 7 red brick, 11 square cut nail, 10 wire nail, 1 bolt, 1 metal handle, 1 horseshoe, 1 brass lamp wick assembly, 1 grommet, 1 brass plate, 8 metal can frags, 1 metal pipe, 1 unid metal, 3 foil, 1 burned mammal vertebra, 1 large mammal rib, 3 hard shell clam, 1 oyster, 40 burned wood, 7 coal, 5 slag
11A	76	86	dist	md bn sd st w/cl	
11B	76	86	dist	gb sd st w/cl	1 broken light green bottle, 1 broken brown bottle, 3 clear bottle glass, 1 clear etched curved glass, 1 clear curved glass, 6 aqua window glass, 1 creamware, 1 whiteware, 1 broken ironstone cup, 8 orange brick, 1 red brick, 5 square cut nail, 26 metal can frags, 1 bottle cap, 3 foil, 1 hard shell clam, 16 burned wood, 10 tar shingle, 2 coal, 2 slag, 1 plastic
12A	86	96	dist	md bn sd st w/cl	1 aqua window glass, 23 red brick, 4 square cut nail
12B	86	96	dist	md bn sd st w/cl	1 quartz tert flake, 1 light green bottle glass, 1 dark green bottle glass, 4 aqua bottle glass, 5 clear flat glass, 2 aqua window glass, 3 creamware, 1 pearlware, 1 whiteware, 1 glazed redware, 7 orange brick, 1 red brick, 3 square cut nail, 3 wire nail, 21 metal can frags, 1 bottle cap, 1 grommet, 1 unid metal, 6 burned large mammal long bone, 10 small pieces of burned cloth, 10 burned wood, 9 coal, 6 slag, 2 tar shingle
13A	96	106	dist	md bn sd st w/cl	1 pressed glass tumbler base, 2 aqua window glass, 2 aqua curved glass, 1 whiteware, 6 orange brick, 6 square cut nail, 1 wire nail, 1 metal button, 1 hard shell clam, 1 burned wood
13B	96	106	dist	md bn sd st w/cl	1 aqua flat glass, 1 clear window glass, 1 melted glass, 1 white glazed stoneware rim, 1 whiteware, 3 orange brick, 2 red brick, 8 square cut nail, 2 wire nail, 2 screw, 1 oyster, 1 slag
14A	106	116	dist	md bn sd st w/cl	2 brown bottle glass, 4 aqua flat glass, 2 clear window glass, 1 melted glass, 1 whiteware, 5 orange brick, 6 red brick, 11 square cut nail, 1 oyster, 1 coal, 1 slag
14B	106	111	dist	md bn sd st w/cl	3 light green bottle glass, 1 aqua glass insulator, 3 clear window glass, 2 melted glass, 1 orange brick, 22 red brick, 4 square cut nail, 5 metal can frags, 1 hard shell clam, 2 burned wood, 2 mortar, 9 coal, 3 slag

Level	SD	ED	Stratum	Soils	Cultural Material
15B	111	126	dist	md bn sd st w/cl	6 aqua flat glass, 2 clear flat glass, 1 whiteware, 1 flowerpot, 13 red brick, 13 square cut nail, 8 bird long bone, 1 hard shell clam, 1 slag
16B	126	150	dist	md bn sd st w/cl	10 brown bottle glass, 1 solarized bottle glass, 4 aqua flat glass, 1 orange brick, 10 red brick, 28 square cut nail, 1 metal can frag, 5 bird long bone, 5 bird vertebrae, 5 bird rib, 2 unid bird bone, 2 mortar, 1 coal

A = south half of unit; B = north half

S15/E0

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	9	A0/A1	dk bn sd lm	1 aqua window glass
2	9	24	pz	md bn sd st	1 quartz tert flake, 4 dark green bottle glass, 1 amber bottle glass, 1 light green bottle glass, 39 aqua bottle glass, 4 clear bottle glass, 16 clear curved glass, 1 yellow curved glass, 2 light blue curved glass, 1 white lamp glass, 9 clear lamp glass, 24 aqua window glass, 1 brown printed whiteware base, 8 whiteware rim, 13 whiteware, 1 ironstone plate rim, 7 ironstone base, 1 stamped ironstone base, 6 ironstone, 1 yelloware, 1 porcelain base, 1 porcelain button, 1 brown salt glazed stoneware, 1 buffed glazed stoneware, 21 orange brick, 22 red brick, 26 square cut nail, 1 grommet, 2 hard shell clam, 1 soft shell clam, 4 oyster, 1 rubber gasket, 12 coal, 2 slag
3	24	34	dist	md bn sd st w/cl	9 dark green bottle glass, 1 light green bottle glass, 15 aqua bottle glass, 9 clear bottle glass, 7 solarized bottle glass, 1 clear etched curved glass, 1 pressed yellow glass, 1 solarized wine glass stem, 3 light blue lamp glass, 3 clear lamp glass, 6 aqua window glass, 10 clear window glass, 1 polychrome painted pearlware, 1 pearlware, 3 black printed whiteware, 1 whiteware rim, 1 whiteware base, 1 whiteware, 1 ironstone cup base, 1 ironstone plate rim, 1 stamped ironstone base, 2 ironstone base, 4 ironstone rim, 12 ironstone, 1 glazed redware plate rim, 1 buffed salt glazed stoneware, 1 gold painted porcelain, 1 porcelain rim, 1 porcelain base, 1 porcelain button, 18 orange brick, 5 red brick, 1 stamped buff brick, 25 square cut nail, 1 large metal ring, 1 washer, 7 metal can frags, 2 unid metal, 2 unid animal bone, 2 soft shell clam, 1 oyster, 1 burned wood, 22 coal, 26 slag
4	34	44	dist	md bn sd st w/cl	1 dark green bottle glass, 5 aqua bottle glass, 4 clear bottle glass, 12 clear curved glass, 1 clear etched glass, 1 clear pressed glass, 4 clear lamp glass, 6 aqua window glass, 5 clear window glass, 1 brown printed whiteware base, 1 black printed whiteware, 6 ironstone rim, 4 ironstone, 1 porcelain rim, 4 orange bricks, 7 red bricks, 28 square cut nail, 1 wire nail, 4 metal can frags, 2 unid metal, 1 large mammal long bone, 2 hard shell clam, 1 oyster, 3 mortar, 15 coal, 18 slag
5	44	54	dist	md bn sd st w/cl	1 quartz core, 2 quartz split cobble, 1 quartzite mod flake, 1 quartz sec flake, 2 quartz tert flake, 3 dark green bottle glass, 2 brown bottle glass, 1 amber bottle glass, 1 aqua bottle glass, 1 clear bottle glass, 4 clear curved glass, 1 clear lamp glass, 4 aqua window glass, 6 clear window glass, 1 melted glass, 1 red printed whiteware rim, 1 whiteware rim, 4 ironstone, 1 porcelain bowl frag, 2 red brick, 53 square cut nail, 1 copper wire, 1 metal pipe frag, 35 metal can frags, 18 unid metal, 1 hard shell clam, 1 oyster, 2 mortar, 12 coal, 4 slag

Level	SD	ED	Stratum	Soils	Cultural Material
6	54	64	dist	md bn sd st w/cl	1 quartz tert flake, 2 aqua bottle glass, 1 clear bottle glass, 16 clear curved glass, 7 clear window glass, 1 creamware, 1 green printed whiteware rim, 1 porcelain, 2 orange brick, 1 red brick, 37 square cut nail, 1 screw, 2 metal pipe frags, 2 foil, 1 hard shell clam, 1 mortar, 3 coal
7	64	74	dist	md bn sd st w/cl	1 brown bottle glass, 1 clear bottle glass, 3 aqua window glass, 1 black printed whiteware, 5 orange brick, 2 red brick, 11 square cut nail, 1 mortar

S15/E1

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	6	A0/A1	dk bn sd lm	1 clear curved glass, 1 aqua window glass, 1 mortar, 2 slag, 1 plastic
2	6	16	pz	md bn sd st	1 amber bottle glass, 3 clear bottle glass, 11 aqua window glass, 7 clear window glass, 3 melted glass, 1 creamware, 5 whiteware, 5 ironstone, 4 flowerpot, 17 orange brick, 8 red brick, 20 square cut nail, 1 wire, 1 unid metal, 1 hard shell clam, 1 mortar, 42 coal, 18 slag
3	16	20	pz	md bn sd st	2 brown bottle glass, 1 cobalt bottle glass, 1 green bottle glass, 3 dark green bottle glass, 4 light green bottle glass, 7 aqua bottle glass, 1 clear perfume bottle frag, 1 broken clear molded wine glass, 1 clear pressed glass, 1 yellow pressed glass, 2 light blue lamp glass, 9 clear lamp glass, 26 aqua window glass, 29 clear window glass, 7 melted glass, 1 blue printed whiteware rim, 1 whiteware rim, 8 whiteware, 2 stamped ironstone base, 1 ironstone base, 8 ironstone rim, 6 ironstone, 2 glazed redware, 1 redware, 1 porcelain rim, 1 porcelain, 5 flowerpot, 53 orange brick, 39 red brick, 9 square cut nail, 48 wire nail, 4 metal staple, 1 metal spoon, 4 metal can frags, 1 oil lamp wick assembly (stamped with patent date 1865), 5 unid metal, 1 bird long bone, 2 unid animal bone, 5 hard shell clam, 1 soft shell clam, 2 oyster, 1 nut shell, 1 burned wood, 49 coal, 29 slag
4A	20	30	dist	mo md bn st	1 brown bottle glass, 2 aqua bottle glass, 1 clear curved glass, 2 clear lamp glass, 7 aqua window glass, 16 clear window glass, 1 melted glass, 1 whiteware, 1 ironstone rim, 1 stamped ironstone, 3 ironstone, 1 porcelain, 1 clay smoking pipe stem (5/64"), 2 flowerpot, 9 orange brick, 9 red brick, 9 square cut nail, 1 bullet casing, 16 metal can frags, 1 unid metal, 1 hard shell clam, 1 soft shell clam, 1 oyster, 4 mortar, 20 coal, 4 slag
4B	20	30	dist	dk yb sd st	1 quartz sec flake, 1 dark green bottle glass, 2 aqua bottle glass, 1 mottled curved glass, 2 etched clear glass, 1 clear bottle glass, 1 yellow glass stopper, 1 light blue lamp glass, 1 clear lamp glass, 14 clear window glass, 4 whiteware, 1 porcelain, 11 orange brick, 6 red brick, 14 square cut nail, 2 wire nail, 5 metal can frags, 5 unid metal, 1 unid mammal bone, 1 hard shell clam, 1 mortar, 4 coal, 5 slag
5A	30	35	dist	mo md bn st	1 aqua bottle glass, 2 clear bottle glass, 2 clear lamp glass, 6 clear window glass, 1 brown printed whiteware, 1 ironstone rim, 1 buff salt glazed stoneware, 5 orange brick, 12 red brick, 3 square cut nail, 3 wire nail, 3 metal can frags, 1 metal military button, 1 hard shell clam, 1 oyster, 21 mortar, 1 coal
5B	30	40	dist	mo gb cl	1 aqua bottle glass, 3 aqua window glass, 3 clear window glass, 2 whiteware, 5 orange brick, 7 red brick, 2 mortar

Level	SD	ED	Stratum	Soils	Cultural Material
6B	40	50	dist	md bn sd st w/cl	2 clear flat glass, 1 aqua window glass, 5 pearlware, 1 brown printed whiteware rim, 2 whiteware rim, 1 unid earthenware, 17 orange brick, 6 red brick, 5 square cut nail, 1 wire nail
7B	50	60	dist	md bn sd st w/cl	1 clear window glass, 1 blue painted pearlware, 9 orange brick, 3 red brick, 1 coal, 1 slag
8B	60	70	B2	yb cl	

A = west half of unit; B = east half

S20/E150

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	3	A0/A1	dk bn cl lm	
2	3	31	pz	md bn cl lm	2 quartz sec flake, 7 quartz tert flake, 1 clear curved melted glass, 1 clear flat glass, 1 solarized flat glass, 3 aqua window glass, 1 creamware rim, 3 creamware, 1 blue painted pearlware, 1 blue printed pearlware, 1 pearlware rim, 1 blue printed whiteware, 1 unid burned earthenware rim, 1 blue painted porcelain lid, 1 porcelain base, 1 porcelain, 1 orange brick, 1 lead piece, 1 slag, 1 styrofoam
3	31	41	B2	ob cl st	
4	41	51	B2	ob cl st	
5	51	61	B2	ob cl st	
6	61	120	B2	ob st sd	

S22.5/W30

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	5	A0/A1	dk bn st lm	
2	5	15	pz	md bn sd st w/cl	1 soft drink bottle frag, 1 broken aqua beer bottle, 1 broken dark green bottle, 3 brown bottle glass, 2 amber bottle glass, 3 clear bottle bases, 4 curved white glass, 2 solarized bottle glass, 1 clear pressed glass rim, 1 clear pressed glass, 23 clear curved glass, 11 clear lamp glass, 5 clear window glass, 28 aqua window glass, 1 creamware, 1 blue painted pearlware, 1 pearlware rim, 1 purple printed whiteware rim, 2 purple printed whiteware, 2 green printed whiteware rim, 1 blue printed whiteware, 1 whiteware rim, 5 whiteware, 1 printed ironstone base, 3 ironstone rims, 1 ironstone cup handle, 17 ironstone, 1 Rockingham rim, 2 porcelain rims, 1 porcelain handle, 1 gold painted porcelain, 1 green printed porcelain, 1 porcelain, 2 flowerpot frags, 5 orange brick, 1 red brick, 1 large unid metal, 8 coal, 1 slag, 1 styrofoam
3	15	21	dist	mo md bn cl st	7 clear bottle glass, 4 aqua window glass, 1 whiteware, 4 ironstone, 1 Rockingham, 3 orange brick, 1 red brick, 1 butchered mammal long bone, 1 unid mammal bone, 1 coal
4	21	31	dist	mo gb cl st	9 soft drink bottle frags, 1 clear bottle glass, 2 aqua bottle glass, 5 light green bottle glass, 4 brown bottle glass, 1 clear pressed glass rim, 3 aqua window glass, 1 brown printed whiteware, 1 whiteware handle, 1 green printed ironstone, 1 black printed ironstone base, 1 ironstone rim, 8 ironstone, 1 redware, 2 salt glazed stoneware, 1 painted porcelain doll part, 10 orange brick, 4 red brick, 1 coal, 1 slag
5	31	41	B2	dk ob st sd w/pb,gv&cb	4 soft drink bottle frags, 1 light green bottle glass, 1 brown bottle glass, 3 aqua window glass, 2 orange brick, 1 unid metal, 1 coal, 2 plastic wrapper
6	41	51	B2	dk ob st sd w/pb,gv&cb	2 brown bottle glass base
7	51	61	B2	dk ob st sd w/pb,gv&cb	

S22.5/W8.5

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	4	A0/A1	dk bn sd lm	2 aqua window glass, 10 orange brick, 5 red brick, 5 square cut nail, 2 wire nail, 2 hard shell clam, 3 asphalt, 2 plastic
2	4	14	pz	md bn sd lm	2 brown bottle glass, 3 aqua bottle glass, 1 dark green bottle glass, 3 clear curved glass, 4 clear lamp glass, 4 clear flat glass, 9 aqua window glass, 1 creamware, 1 whiteware rim, 1 whiteware, 1 ironstone rim, 3 ironstone, 1 glazed redware, 2 salt glazed stoneware, 1 porcelain, 1 porcelain figurine frag, 1 clay smoking pipe bowl marked with "D", 13 orange brick, 3 red brick, 11 square cut nail, 2 wire nail, 5 unid nail, 3 tack, 1 spike, 1 knife blade, 1 brass furniture piece, 3 unid metal, 1 oyster, 6 hard shell clam, 1 mortar, 6 coal, 3 plastic
3	14	19	pz	md bn sd lm	3 amber bottle glass, 1 clear bottle glass, 3 clear curved glass, 1 clear flat glass, 5 aqua window glass, 1 creamware, 3 ironstone, 2 porcelain, 1 clay smoking pipe bowl, 1 orange brick, 2 red brick, 17 square cut nail, 8 unid nail, 2 unid metal, 6 hard shell clam, 1 oyster, 3 coal, 2 slag
4	19	22	dist	md bn sd st w/pb&gv	1 quartz tert flake, 14 pressed amber bottle glass, 1 clear piece of drinking glass, 15 clear curved glass, 3 brown bottle glass, 3 dark green bottle glass, 4 aqua curved glass, 10 clear lamp glass, 42 aqua window glass, 3 creamware, 2 pearlware handle, 1 pearlware, 1 blue painted whiteware rim, 1 blue printed whiteware, 4 ironstone rims, 1 ironstone cup base, 1 stamped ironstone base, 8 ironstone, 1 glazed redware, 1 Rockingham rim, 1 unid earthenware, 1 salt glazed stoneware, 2 clay pipe stems (6/64" and 5/64"), 1 gray brick, 5 orange brick, 1 red brick, 78 square cut nails, 3 wire nails, 1 brass key, 6 unid metal, 13 mammal rib frags, 39 hard shell clam, 5 soft shell clam, 14 oyster, 4 coal, 6 slag
5	22	32	dist	md bn sd st w/cl	1 amber pressed bottle glass, 3 aqua window glass, 2 clear flat glass, 1 creamware, 1 whiteware, 1 ironstone, 3 red brick, 11 square cut nail, 4 metal can frags, 3 unid metal, 2 mammal rib frags, 2 hard shell clam, 1 oyster, 1 coal, 1 slag
6	32	41	dist	mo md bn lm st w/cl	1 dark green bottle glass, 2 clear flat glass, 3 ironstone, 3 orange brick, 1 gray brick, 7 square cut nails, 12 unid metal, 2 mammal long bone frag, 3 hard shell clam, 1 soft shell clam, 1 oyster
7	41	44	dist	mo md bn lm st w/cl	1 orange brick, 1 gray brick
8	44	47	dist	gb lm cl	1 burned orange brick, 1 unid metal, 1 hard shell clam
9	47	56	buried pz	md bn lm st	1 orange brick
10	56	66	B2	gr cl lm	1 orange brick
11	66	118	B2	gr cl lm	

S22.5/W7.5

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	7	A0/A1	dk bn sd lm	1 white glass, 1 red brick
2	7	20	pz	md bn sd lm	1 quartz tert flake, 1 dark green bottle glass, 12 aqua bottle glass, 2 solarized bottle glass, 3 clear curved glass, 1 white glass fruit jar lid, 4 clear lamp glass, 2 white lamp glass, 24 aqua window glass, 1 creamware rim, 2 whiteware, 1 ironstone base, 4 ironstone, 2 glazed redware, 1 porcelain rim, 1 porcelain button, 1 clay pipe bowl, 1 Dorni-style stamped clay pipe stem (5/64"), 1 flowerpot frags, 10 orange brick, 11 red brick, 5 square cut nail, 45 wire nail, 2 spike, 1 screw, 3 staple, 6 metal can frags, 1 metal hinge, 1 large mammal tooth, 1 mammal long bone, 9 unid animal bone, 18 hard shell clam, 1 soft shell clam, 1 oyster, 1 peach pit, 7 coal, 5 slag, 9 plastic, 1 aluminum pull tab
3	20	42	dist	md bn sd st w/pb,gv&cb	2 amber pressed bottle glass, 2 dark green bottle glass, 1 brown bottle glass, 5 aqua bottle glass, 4 clear bottle glass, 1 aqua thin flat glass, 11 aqua window glass, 10 clear window glass, 1 black glass button, 1 creamware, 1 black printed pearlware rim, 1 pearlware, 1 blue painted whiteware rim, 1 blue painted whiteware, 4 whiteware, 7 ironstone, 1 porcelain rim, 3 clay smoking pipe bowl frags, 3 orange brick, 3 red brick, 8 square cut nail, 23 wire nail, 3 spike, 1 rivet, 1 metal can frag, 1 brass hinge, 1 unid metal, 1 unid animal bone, 16 hard shell clam, 4 oyster, 7 coal
4	42	49	dist	mo md bn lm st w/cl	1 aqua window glass, 1 orange brick
5	49	59	dist	mo md bn lm st w/cl	1 hard shell clam
6	59	69	dist	gr cl lm	
7	69	118	B2	gr cl lm	

S23.5/W7.5

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	4	A0/A1	dk bn sd lm	2 red brick, 1 wire nail, 1 bolt, 1 hard shell clam, 1 walnut shell, 2 coal, 1 slag, 1 mortar
2	4	23	pz	md bn sd lm	3 clear soft drink bottle glass, 1 clear pressed glass goblet, 2 aqua bottle glass, 1 dark green bottle glass, 2 turquoise bottle glass, 1 amber bottle glass, 1 brown bottle glass, 3 white glass jar lid frags, 10 clear curved glass, 1 curved white glass, 5 clear lamp glass, 14 aqua window glass, 1 creamware, 1 blue printed whiteware rim, 1 whiteware, 6 ironstone rim, 1 ironstone base, 9 ironstone, 1 glazed stoneware, 6 orange brick, 3 red brick, 17 square cut nail, 14 wire nail, 21 unid nail, 1 brass hinge, 1 brass button, 1 knife frag, 4 unid metal, 1 mammal tooth, 1 mammal vertebra, 2 mammal rib, 4 unid mammal bone, 5 hard shell clam, 2 oyster, 4 coal, 4 slag, 3 rubber wheel frags, 6 plastic
3	23	39	dist	md bn sd st w/pb,gv&cb	1 clear pressed glass goblet, 4 clear bottle glass, 4 clear lamp glass, 1 dark green flat glass, 9 aqua window glass, 1 black glass button, 2 blue printed whiteware, 2 ironstone rim, 5 ironstone base, 13 ironstone, 1 Rockingham, 1 salt glazed stoneware, 2 clay smoking pipe stems (5/64"), 4 orange brick, 39 square cut nail, 1 wire nail, 1 metal spoon, 5 metal can frags, 4 unid metal, 1 mammal canine tooth, 4 mammal long bone, 1 mammal rib, 3 unid animal bone, 13 hard shell clam, 1 soft shell clam, 2 oyster, 1 coal
4	39	49	dist	mo md bn lm st w/cl	1 orange brick, 1 red brick
5	49	59	dist	md bn lm st	brick layer (approximately 100 whole bricks and frags)
6	59	69	B2	gr cl lm	

S45/W90

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	10	fill	md bn st sd	3 quartz tert flake, 1 yellow brick, 3 red brick, 1 slate tile, 1 unid tile
2	10	20	fill	ob sd st w/cl	
3	20	30	fill	ob sd st w/cl	1 square cut nail, 1 styrofoam
4	30	38	fill	ob sd st w/cl	1 clear bottle glass
5	38	48	buried pz	md bn sd st w/cl	1 aqua bottle glass, 3 aqua window glass, 3 whiteware, 1 glazed redware, 1 red brick, 1 spike, 5 coal
6	48	58	buried pz	md bn sd st w/cl	1 clear curved glass, 2 aqua window glass, 1 clear window glass, 2 Rockingham, 1 orange brick, 1 hard shelled clam, 1 coal
7	58	68	buried pz	md bn sd st w/cl	4 clear window glass, 1 brown painted creamware, 1 creamware, 2 whiteware, 1 glazed redware, 1 red painted porcelain, 4 orange brick, 2 square cut nails, 2 unid metal, 1 shell, 5 coal
8	68	78	C	gr st sd	
9	78	120	C	gr st sd	

S52.5/E100

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	4	A0/A1	dk bn st lm	
2	4	26	pz	md bn cl lm	1 quartz pri flake, 1 quartz tert flake, 1 gray chert tert flake, 1 fcr, 2 clear bottle glass, 1 olive bottle glass, 2 green curved glass rims, 4 aqua window glass, 1 creamware rim, 6 creamware, 1 brown painted pearlware, 1 blue painted pearlware, 6 pearlware, 1 whiteware rim, 1 whiteware, 1 unid earthernware, 2 glazed and molded redware, 3 glazed redware, 2 ball clay pipe stems (6/64"), 5 orange brick, 1 metal spike, 1 charcoal
3	26	36	B2	ob cl st	
4	36	46	B2	ob cl st	
5	46	56	B2	ob cl st	
6	56	66	B2	ob cl st	
7	66	120	B2	ob cl st	

S60/E127.5

Level	SD	ED	Stratum	Soils	Cultural Material
1	0	3	A0/A1	dk bn st lm	
2	3	35	pz	md bn cl lm	1 quartz biface frag, 3 quartz pri flake, 1 quartz sec flake, 5 quartz tert flake, 2 aqua bottle glass, 2 clear curved glass, 5 solarized flat glass, 16 aqua window glass, 1 creamware rim, 7 creamware, 2 blue painted pearlware, 1 blue printed pearlware rim, 1 blue printed pearlware, 4 pearlware, 1 whiteware, 2 unid earthenware, 1 glazed and molded redware plate rim, 1 glazed redware, 1 blue painted porcelain, 3 orange brick, 1 red brick, 1 square cut nail, 1 unid metal, 15 coal
3	35	45	B2	ob cl st	
4	45	55	B2	ob cl st	
5	55	65	B2	ob cl st	
6	65	105	B2	ob cl sd	

APPENDIX D: NEW YORK STATE ARCHAEOLOGICAL SITE FORMS

(UPDATED MAY 2003)

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

For Office Use Only--Site Identifier NYSM 11236; A10345.000118
Project Identifier PIN 0327.95.101; Gyrodyne Date January 2002; May 2003

Your Name Linda E. Barber; Daria Merwin Phone (631) 632-7618
Address Dept. of Anthropology, SUNY-Stony Brook
Stony Brook, New York
Zip 11794-4364

Organization (if any) Institute for Long Island Archaeology

1. Site Identifier(s) B. Bailey Site, RENAMED MILLS-SMITH HOUSE
2. County Suffolk One of following: City
Township Brookhaven
Incorporated Village Head of the Harbor (MCD 10345)
Unincorporated Village or Hamlet

3. Present Owner Gyrodyne Flowerfield
Address Mills Pond Road
St. James, New York
Zip 11780

4. Site Description (check all appropriate categories): Structure/site
Superstructure: complete___ partial___ collapsed___ not evident X
Foundation: above___ below X (ground level) not evident ___
Structural subdivisions apparent: Only surface traces visible___ Buried traces detected___

List construction materials (be as specific as possible):
window glass, square cut and wire nails, brick fragments, mortar, asphalt, and shingle
May 2003: stairway with slate treads and brick risers found during excavation

Grounds: Under cultivation___ Sustaining erosion___ Woodland___ Upland X
Never cultivated___ Previously cultivated X Floodplain___ Pastureland___
Soil Drainage: excellent___ good___ fair X poor___
Slope: flat___ gentle X moderate___ steep___
Distance to nearest water from structure (approx.) 100 m Elevation: 43 m

5. Site Investigation (append additional sheets, if necessary):
Surface--date(s) August 2001; December 2002 and March 2003
Site Map (Submit with form) see report

Collection

Subsurface--date(s) August-November 2001; December 2002 and March 2003
Testing: shovel X coring___ other ___ unit size 50cm dia.x 60cm deep no. of units 70
Excavation: unit size 1 x 1 meter no. of units 12
Investigator Linda Barber, Ph.D.; Michael Lenardi, M.A. ; Daria Merwin, M.A.

Manuscript or published report(s)(reference fully): Barber, Linda E. (2002): *A Cultural Resources Survey Report of PIN 0327.95.101 New York State Route 25A at Mills Pond Road, Head of the Harbor, Town of Smithtown, Suffolk County, New York.* Prepared for the New York State Museum, State Education Department by the Institute for Long Island Archaeology, SUNY Stony Brook.

Bernstein, David J., Michael J. Lenardi, and Daria E. Merwin (2003): *Stage 2 Evaluations for the Gyrodyne Company of America Property in Smithtown, Suffolk County, New York.* Prepared by the Institute for Long Island Archaeology, SUNY Stony Brook.

Present repository of materials Institute for Long Island Archaeology, SUNY Stony Brook

6. Site inventory:
a. date constructed or occupation period pre-1858
b. previous owners, if known W.W. Mills (1858, 1873 maps); DuBois Smith (1896 map)
c. modifications, if known:

7. Site documentation (append additional sheets, if necessary):
a. Historic maps
1) Name W.W. Mills Date 1858 Source Chace *Map of Suffolk County, New York*
Present location of original, if known New York State Museum
2) Name W.W. Mills Date 1873 Source Beers *Atlas of Long Island, New York*
Present location of original, if known New York State Museum
3) Name DuBois Smith Date 1896 Source Hyde *Atlas of Long Island, New York*
Present location of original, if known copy on file, Map Library, SUNY Stony Brook
b. Representation in existing photography
1) Photo date post-1951 Where located _http://www.gyrodynehelicopters.com/Our_Founder.htm
c. Primary and secondary source documentation (reference fully):
d. Persons with memory of site: none known

8. List of material remains other than those used in construction (be as specific as possible in identifying object and material):

Stage 1: Artifacts found in 44 of 70 shovel test pits excavated in the 0.36 hectare area south of New York State Route 25A and east of Mills Pond Road. Euro-American material includes bottle glass, creamware, pearlware, whiteware, ironstone, redware, porcelain, earthenware tile, ball clay pipe stem fragments, bone, hard and soft shell clam, oyster, coal, slag, brass furniture ornament and rubber fragment.

Stage 2: Similar materials encountered in 1 x 1 meter excavation units, with the highest density in the area around S14/E0, where a buried stairway was found. A total of 7,580 historic period artifacts were found during the Stage 1 and 2 investigations.

If prehistoric materials are evident, check here and fill out prehistoric site form. X (see Mills Pond site)

9. Map References: Map or maps showing exact location and extent of site must accompany this form and must be identified by source and date.
USGS 7.5' Minute Series Quad. Name *Saint James, New York* (1967)
For Office Use Only--UTM Coordinates

10. Photography (optional for environmental impact survey): see report

11. Eligibility Discussion
A. X Property appears NR/SR eligible.
Identify relevant theme:
Existence of relevant context: yes no
Discuss: nineteenth century domestic site

B. Specific Criteria for Eligibility:
Criteria A. Associated with events that have made a significant contribution to the broad patterns of our history.
Criteria B. Associated with the lives of persons significant in our past.
Criteria C. Embodies the distinct characteristics of a type, period, or method of construction; or represents a significant and distinguishable entity whose components may lack individual distinction; or
Criteria D. X Have yielded, or may be likely to yield, information important in prehistory or history.

C. Discussion (Provide a brief paragraph summarizing site)

Architectural debris and domestic refuse dating to the nineteenth and early twentieth centuries were recovered. The cultural materials were concentrated in an area identified on nineteenth century maps as containing the residence of W.W. Mills. Archival evidence indicates that the residence was part of a small rural historic community clustered around Mills Pond. The site is within the bounds, and is a contributing property, of the National Register listed Mills Pond Historic District (90NR1882).

NEW YORK STATE PREHISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

For Office Use Only--Site Identifier NYSM 11237; A10345.000117
Project Identifier PIN 0327.95.101; Gyrodyne Date January 2002; May 2003

Your Name Linda E. Barber; Daria Merwin Phone (631) 632-7618
Address Dept. of Anthropology, SUNY-Stony Brook
Stony Brook, New York
Zip 11794-4364

Organization (if any) Institute for Long Island Archaeology

1. Site Identifier(s) Mills Pond Site

2. County Suffolk
One of following: City
Township Brookhaven
Incorporated Village Head of the Harbor (MCD 10345)
Unincorporated Village or Hamlet

3. Present Owner various
Address
Zip

4. Site Description (check all appropriate categories): Structure/site

Site

__ Stray find	__ Cave/Rockshelter	__ Workshop
__ Pictograph	__ Quarry	__ Mound
__ Burial	__ Shell midden	__ Village
X Surface evidence	__ Camp	X Material in plow zone
X Material below plow zone	X Buried evidence	__ Intact occupation floor
__ Single component	__ Evidence of features	__ Stratified
__ Multicomponent		

Location

X Under cultivation	X Never cultivated	X Previously cultivated
__ Pastureland	__ Woodland	__ Floodplain
__ Upland	X Sustaining erosion	X Residential lawn

Soil Drainage: excellent__ good__ fair__ poor X__
Slope: flat__ gentle X__ moderate X__ steep__
Distance to nearest water from site (approx.) 15 meters Elevation: 42-46 meters

5. Site Investigation (append additional sheets, if necessary):
Surface--date(s) August 2001; December 2002, March 2003
Site Map (Submit with form) see report
Collection August 2001; December 2002, March 2003
Subsurface--date(s) August-November 2001; December 2002, March 2003
Testing: shovel X coring__ other __ unit size 40cm dia.x60cm deep no. of units 364
Excavation: unit size 1 x 1 meter no. of units 12

Investigator Linda E. Barber, Ph.D., Michael Lenardi, M.A.; David J. Bernstein

Manuscript or published report(s)(reference fully): Barber, Linda E. (2002): *A Cultural Resources Survey Report of PIN 0327.95.101 New York State Route 25A at Mills Pond Road, Head of the Harbor, Town of Smithtown, Suffolk County, New York.* Prepared for the New York State Museum, State Education Department by the Institute for Long Island Archaeology, SUNY Stony Brook.

Bernstein, David J., Michael J. Lenardi, and Daria E. Merwin (2003): *Stage 2 Evaluations for the Gyrodyne Company of America Property in Smithtown, Suffolk County, New York.* Prepared by the Institute for Long Island Archaeology, SUNY Stony Brook.

Present repository of materials Institute for Long Island Archaeology, SUNY Stony Brook

6. Component (s)(cultural affiliation/dates):
prehistoric; cultural affiliation unknown

7. List of material remains (be as specific as possible in identifying object and material):
Prehistoric lithic artifacts encountered in 39 of 364 shovel test pits (47 pieces), plus 1 quartz biface found on the surface of a recently disked field. Cultural material includes four bifaces (two chert and two quartz), 2 cores, 5 pieces of fire-cracked rock, and 37 pieces of debitage (all but one of quartz or quartzite).

Stage 2 on Gyrodyne property: very light density of lithic artifacts found in 10 of 12 excavation units (1 x 1 meter), a total of 48 pieces (44 unmodified flakes, 1 modified flake, 2 cores, and 1 biface; all made of quartz and quartzite, except for one gray chert flake). All lithic artifacts found during the Stage 1 and 2 on the Gyrodyne property are from plow zone or otherwise disturbed soils.

If historic materials are evident, check here and fill out historic site form. X (see B. Bailey/Mills-Smith site form)

8. Map References: Map or maps showing exact location and extent of site must accompany this form and must be identified by source and date. Keep this submission to 8.5x11" if possible.
USGS 7.5' Minute Series Quad. Name *Saint James, New York* (1967)
For Office Use Only--UTM Coordinates _____

9. Photography (optional for environmental impact survey):
Please submit a 5x7" black and white print(s) showing the current state of the site. Provide a label for the print(s) on a separate sheet. (see report)

10. Eligibility Discussion
A. X Property appears NR/SR eligible.*
(*portion of site on Gyrodyne property does NOT appear to be eligible)
Identify relevant theme:_____
Existence of relevant context:___yes ___no
Discuss: prehistoric inland site in coastal New York

B. Specific Criteria for Eligibility:
Criteria A.___ Associated with events that have made a significant contribution to the broad patterns of our history.
Criteria B.___ Associated with the lives of persons significant in our past.
Criteria C.___ Embodies the distinct characteristics of a type, period, or method of construction; or represents a significant and distinguishable entity whose components may lack individual distinction; or
Criteria D. X Have yielded, or may be likely to yield, information important in prehistory or history.

3. Discussion (Provide a brief paragraph summarizing site)

The prehistoric site is located in Head of the Harbor, Town of Smithtown, Suffolk County, New York. It is located at the intersection of Mills Pond Road and New York State Route 25A. Evidence of prehistoric activity was recovered on the north side of NYS Route 25A, as well as east and west of Mills Pond Road on the south side of NYS Route 25A (the Gyrodyne property). Testing in three quadrants around the intersection resulted in the recovery of quartz cores, flakes, and block/shatter, chert bifaces, and fire-cracked rock. No features were encountered.

This site has the potential to yield information important to the understanding of prehistoric activity in interior Long Island. The site is best described as a limited use site in close proximity to an inland pond. Mills Pond was probably larger in the past, as there is geological and topographic evidence of filling and grading along the two adjacent roadways. Further examination to determine the boundaries of the site and the identification of possible features would lead to a better understanding activities at inland sites.

*Note: the portion of the site on the Gyrodyne property does not appear to be NR/SR eligible. Stage 2 evaluation at this location yielded only

Appendix H:

Economic Report and Supplemental Economic Analyses

HR&A Analyze. Advise. Act.
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MEMORANDUM

To:	Janice Jijina, Cameron Engineering & Associates, LLP
From:	HR&A Advisors, Inc.
Date:	July 14, 2017
Re:	Economic and Fiscal Impact Evaluation of the Gyrodyne Subdivision Project

HR&A Advisors, Inc. ("HR&A") prepared an economic and fiscal impact analysis of the Gyrodyne Subdivision Project (the "Proposed Project"). In this memorandum, we summarize the findings from our analysis of the likely economic, fiscal, and employment impacts of the Proposed Project, as well as a no-action scenario and five alternative development programs which will be presented in the Gyrodyne Draft Environmental Impact Statement (DEIS).

Located in the Town of Smithtown on Mills Pond Road, just south of North Country Road, the 74.98-acre site currently features a 34,685 square-foot catering facility (Flowerfield Celebrations), 150,959 square-feet of light industrial space, and 925 parking spaces.

Market Analysis Summary

In a prior phase of work, HR&A conducted a market study to assess market conditions and identify potential demand drivers within a 25-minute drive-time of the Gyrodyne site (the Study Area). The site is proximate to regionally significant anchor institutions including Stony Brook University (SBU) and Stony Brook Medicine. In addition, residents in the Study Area are aging in place, contributing to a growing population of seniors.

Assisted Living

The demand for an assisted living facility is fueled by growth in the age 75+ population in the Study Area. Within the Study Area, residents over the age of 75 are expected to increase by 9,500 over the next five years, with a growing median income of $56,000[1]. The proximity of the site to Stony Brook Medicine would support the medical needs of residents living in the proposed 220-unit assisted living development who require around-the-clock staff and other medical services.

Hotel

Robust demand from local and regional customers, as well as visitors to the University would support a 150-key hotel with flexible meeting space. Specifically, the flexible conference and meeting space would serve Flowerfield Catering facility patrons, University guests, and Hospital visitors. The penetration of hotels in the Study Area has been strong with average occupancies of 73% even after 1.5 years of doubling the supply of rooms in 2016[2].

[1] HR&A Analysis of U.S. Census data and Regional Economic Models, Inc.
[2] STR Data

Medical and General Office
Stony Brook Medicine is expected to nearly double the size of its facilities by 2020[3]. The expansion of the Hospital is expected to drive demand for additional Class A medical office space. Based on a review of ratios of hospitals and associated medical offices in Long Island, Stony Brook Hospital would experience a substantial shortage of medical office space based on proposed hiring plans, even accounting for the additional medical space created by the Hospital expansion itself.

Development Alternatives

Supported by the findings of the HR&A market analysis, the Proposed Project would add 128,400 square-feet of medical office space, a 220-unit assisted living facility, a 150-key hotel with approximately 20,000 SF of meeting space, and an additional 1,555 parking spaces to the existing uses at the site. The other development programs analyzed include a no-action scenario and the five alternatives of the Proposed Project summarized in Table 1 that range between 395,000 SF and 571,000 SF of industrial, office, assisted living, and hotel uses. In all the development alternatives, the existing program has been included as part of projected economic and fiscal impacts.

Economic/Fiscal Impact Methodology

HR&A utilized the IMpact analysis for PLANning (IMPLAN) input-output model for Suffolk County, New York, created by MIG, Inc. (formerly Minnesota IMPLAN Group, Inc.), to analyze the Proposed Project's economic impacts from both construction and annual ongoing operations at full development buildout. To develop its outputs, IMPLAN traces the pattern of commodity purchases and sales throughout 536 industries, within the specified geography, for each dollar of spending in the economy. The IMPLAN model is the industry standard, and is used to conduct economic impact analyses by leading public and private sector organizations across the United States.

This analysis estimates economic output, job creation, and wages/income paid to employees at the following levels:

- **Direct impacts:** resulting from project construction and operations spending;
- **Indirect impacts:** resulting from industry-to-industry transactions from project construction and operations; and
- **Induced impacts:** resulting from employee spending in the economy, including employees of directly and indirectly affected businesses.

Based on the Proposed Project, the no-action scenario, and the development alternatives (shown in Table 1), as provided by Cameron Engineering, HR&A conducted an economic impact analysis, measuring the above impacts of the Proposed Project on the Town of Smithtown. HR&A also examined the net fiscal impact of the Proposed Project, estimating projected property taxes and costs for the Town of Smithtown for the ongoing operations of the development.

[3] Stony Brook University Strategic Plan

Table 1: Summary of Development Alternatives

	Existing		*New Development*						
Alternative	**Caterer Facility GSF**	**Industrial GSF**	**Industrial GSF**	**Medical Office GSF**	**General Office GSF**	**Assisted Living Units**	**Hotel Rooms**	**Total GSF[1]**	**Total Parking Spaces**
No Action	34,685	150,959	0	0	0	0	0	185,644	925
Proposed	34,685	150,959	0	128,400	0	220	150	596,719	2,480
Alternative 1	34,685	150,959	0	150,000	0	150	100	526,744	2,328
Alternative 2	34,685	150,959	0	150,000	50,000	192	0	536,769	2,450
Alternative 3	34,685	150,959	0	136,000	0	250	120	606,044	2,474
Alternative 4	34,685	150,959	0	244,000	0	0	0	429,644	2,623
Alternative 5	34,685	150,959	383,000	0	0	0	0	568,644	1,690

[1]: *Total GSF excludes the SF of the parking spaces which are all surface.*
Source: Cameron Engineering

Summary of Key Findings

HR&A's economic impact analysis[4] found that the Proposed Project would generate:

- $228 million in economic activity and 1,507 total jobs during the construction phase.
- $127.7 million in annual net new economic activity and 1,078 total jobs when fully built out and operational.[5]

Based on the Proposed Project program, HR&A's fiscal impact analysis found that the site would generate:

- $3 million in recurring net new fiscal impact per year after full build out, accounting for a total net new tax revenue of $3.76 million and $0.76 million in net new fiscal costs for workers and residents.[6]

Economic Impact Analysis

One-Time Impacts from Construction

HR&A and Cameron Engineering developed a series of assumptions to model the one-time economic impacts of construction of the Proposed Project, the no action scenario, and the five alternatives described in the previous section for the Gyrodyne Subdivision Project site.

Table 2 below presents total development costs, including infrastructure as well as vertical hard and soft costs for each scenario. Soft costs are assumed as 25 percent of hard costs. Total costs for the Proposed Project are $147.1 million. Development costs are assumed to be incurred over a five-year period until full build out.

[4] This analysis is inclusive of existing light industrial and catering uses on site; however, these uses do not contribute significantly to overall impacts.
[5] Expressed in 2017$.
[6] Expressed in 2017$.

Table 2: Development Costs

Alternative	Infrastructure Costs[1]	Vertical Hard Costs	Vertical Soft Costs	Total Costs
No Action	$0	$0	$0	**$0**
Proposed Project	$24,000,000	$98,500,000	$24,600,000	**$147,100,000**
Alternative 1	$23,400,000	$81,100,000	$20,300,000	**$124,800,000**
Alternative 2	$23,900,000	$82,300,000	$20,600,000	**$126,800,000**
Alternative 3	$24,000,000	$100,400,000	$25,100,000	**$149,500,000**
Alternative 4	$24,500,000	$56,100,000	$14,000,000	**$94,600,000**
Alternative 5	$21,300,000	$44,000,000	$11,000,000	**$76,300,000**

[1]: *Includes demolition, site work, sewage treatment plant, parking, and a design contingency.*
Source: HR&A Analysis and Cameron Engineering

Deriving IMPLAN inputs from the information presented above (shown in Appendix A), HR&A estimated the direct, indirect and induced impacts on employment and economic spending attributable to the construction of the Proposed Project, no-action scenario, and the five alternatives for the Gyrodyne Subdivision Project, shown below in Table 3. The Proposed Project is estimated to generate $228 million in total economic output and approximately 1,507 total jobs from construction.

Table 3: Summary of One-Time Impacts from Construction[7]

	Economic Output			
Alternative	Direct	Indirect	Induced	Total Impacts
No Action	$0	$0	$0	**$0**
Proposed Project	$147,100,000	$27,600,000	$53,300,000	**$228,000,000**
Alternative 1	$124,800,000	$23,400,000	$45,200,000	**$193,400,000**
Alternative 2	$126,700,000	$23,800,000	$45,900,000	**$196,400,000**
Alternative 3	$149,500,000	$28,100,000	$54,100,000	**$231,700,000**
Alternative 4	$94,600,000	$17,800,000	$34,300,000	**$146,700,000**
Alternative 5	$76,200,000	$14,300,000	$27,600,000	**$118,100,000**

[7] The economic output and employment projected in Table 3 is the total over the five-year period to full build out.

	Employment (FTE)			
Alternative	**Direct Jobs**	**Indirect Jobs**	**Induced Jobs**	**Total Jobs**
No Action	0	0	0	**0**
Proposed Project	999	142	366	**1,507**
Alternative 1	848	120	311	**1,279**
Alternative 2	861	122	316	**1,298**
Alternative 3	1,015	144	372	**1,531**
Alternative 4	643	91	236	**969**
Alternative 5	518	73	190	**781**

Annual Recurring Impacts from Operations

To study the ongoing economic impacts from the Proposed Project, no-action scenario, and the five alternatives, HR&A used data from the Institute of Transportation Engineers (ITE) and the U.S. Department of Energy (USDOE) to estimate the workplace efficiency and vacancy rate for each land use associated with the Proposed Project and/or the five alternatives, including: existing industrial, new industrial, lodging, including hotel and catering, medical office, general office, and assisted living. This data is shown below in Table 4.

Table 4: Employment Estimates by Use

Land Use	**Workplace Efficiency (NSF per Job)**	**Vacancy Rate[1]**
Existing		
Industrial	500	30%
New Development		
Industrial	500	5%
Hotel	1,020	24%
Medical Office	210	5%
General Office	300	5%
Assisted Living	1,020	5%

[1]: Vacancy rates from existing uses were determined using actual vacancies, while vacancies for new development were derived from HR&A previous market analysis.
Source: ITE, USDOE

Deriving IMPLAN inputs (shown in Appendix B) from the information presented above, HR&A estimated the direct, indirect and induced impacts on employment and economic spending attributable to ongoing operations of the Proposed Project, as show in Table 5. The Proposed Project is estimated to generate $127.7 million in net new economic output (in 2017 dollars) and approximately 1,078 jobs.

Table 5: Summary of Ongoing Impacts from Operations at Full Build Out (2017$)

Economic Output					
Alternative	**Direct**	**Indirect**	**Induced**	**Total Impacts**	**Net New Impacts**
No Action	$14,900,000	$3,400,000	$5,200,000	$23,500,000	**-**
Proposed	$90,500,000	$19,200,000	$41,500,000	$151,200,000	**$127,700,000**
Alternative 1	$90,900,000	$18,900,000	$42,600,000	$152,400,000	**$128,900,000**
Alternative 2	$95,200,000	$18,900,000	$47,400,000	$161,500,000	**$138,000,000**
Alternative 3	$92,100,000	$19,400,000	$42,800,000	$154,300,000	**$130,800,000**
Alternative 4	$111,100,000	$22,100,000	$54,800,000	$188,000,000	**$164,500,000**
Alternative 5	$64,500,000	$14,900,000	$22,100,000	$101,500,000	**$78,000,000**

Employment (FTE)					
Alternative	**Direct Jobs**	**Indirect Jobs**	**Induced Jobs**	**Total Jobs**	**Net New Jobs**
No Action	172	19	32	222	**-**
Proposed	911	123	266	1,300	**1,078**
Alternative 1	906	121	273	1,300	**1,078**
Alternative 2	965	123	306	1,394	**1,171**
Alternative 3	928	125	275	1,328	**1,106**
Alternative 4	1,078	141	351	1,571	**1,349**
Alternative 5	735	82	136	953	**731**

Fiscal Impact Analysis

In assessing one-time and ongoing fiscal impact at full-build out, HR&A analyzed the local tax structure for the Town of Smithtown. The Town of Smithtown does not have local sales tax, personal income tax, business income tax, or hotel tax. Therefore, one-time impacts on sales tax or from construction activities are not relevant to this analysis.

HR&A also assessed the annual recurring fiscal impact of property tax revenue at the local level to estimate annual recurring fiscal impacts from the Proposed Project's operations.

As shown in Table 6 below, HR&A used capitalized values for the Proposed Project and each of the five development alternatives and applied the Town of Smithtown Assessors' Office's equalization rate of 1.32 percent to arrive at the assessed value for each. HR&A then estimated total property taxes at full build out. In summary, the Proposed Project's estimated capitalized value of $127.9 million results in an assessed value of $1,852,690, which represents an approximately $1.67 million increase.

Table 6: Summary of Assessed Values at Full Build Out (2017$)

Alternative	Capitalized Value of New Program	Assessed Value of New Program	Assessed Value of Existing Program	Total Assessed Value	Net New Assessed Value
Action	$0	$0	$176,425[1]	$176,425	-
Proposed	$127,900,000	$1,690,000	$152,690	$1,842,690	**$1,666,265**
Alternative 1	$107,100,000	$1,410,000	$152,690	$1,562,690	**$1,386,265**
Alternative 2	$113,300,000	$1,500,000	$152,690	$1,652,690	**$1,476,265**
Alternative 3	$131,700,000	$1,740,000	$152,690	$1,892,690	**$1,716,265**
Alternative 4	$79,500,000	$1,050,000	$152,690	$1,202,690	**$1,026,265**
Alternative 5	$25,900,000	$340,000	$152,690	$492,690	**$316,265**

[1]: *The assessed value of the existing program is highest in the No Action scenario because the assessed value of the land used for new development is incorporated into the Assessed Value of New Program column.*
Source: HR&A Analysis, Town of Smithtown Assessor

Table 7 presents the total anticipated tax revenue generated by the Proposed Project, the no-action scenario, and the five alternatives, broken down by receiving entity (in 2017 dollars) after applying the applicable $2,259.01 mill rate for the site's tax code 76 to the assessed value. The Proposed Project would generate $3.76 million in net new property taxes. The bulk of taxes, $2.58 million, would be received by the Smithtown School District and the remaining $1.31 million would be received by the Town and other entities as represented in Appendix C.

Table 7: Summary of Annual Property Taxes at Full Build Out (2017$)

Alternative	Smithtown School District	Town and Other Entities	Total Taxes	Net New Taxes
No Action	$270,000	$130,000	$400,000	-
Proposed Project	$2,850,000	$1,310,000	$4,160,000	**$3,760,000**
Alternative 1	$2,420,000	$1,110,000	$3,530,000	**$3,130,000**
Alternative 2	$2,550,000	$1,170,000	$3,720,000	**$3,320,000**
Alternative 3	$2,930,000	$1,350,000	$4,280,000	**$3,880,000**
Alternative 4	$1,860,000	$860,000	$2,720,000	**$2,320,000**
Alternative 5	$760,000	$350,000	$1,110,000	**$710,000**
Allocation	*68.5%*	*31.5%*		

Note: Allocation corresponds to current tax code 76, which, as per the Town of Smithtown Assessor, will remain regardless of new uses.

HR&A also estimated the annual cost to the Town of Smithtown for the no-action scenario, the Proposed Project, and the five alternatives, as shown in Table 8. HR&A estimated costs per worker and resident by dividing the 2016-2017 budget by the number of current residents and workers (converted to resident-equivalents[8]) in the Town of Smithtown, using population and worker estimates from the U.S. Census Bureau and Bureau of Labor Statistics respectively. For the Proposed Project, the net new cost to the Town of Smithtown is estimated at $760,000 in 2017 dollars.

[8] "Resident-equivalents" were calculated using a 3:1 ratio, assuming a resident generates three times more expenses than a worker. This assumption is based on the amount of time residents and workers would be expected to spend in the Town of Smithtown, assuming 24 hours for residents and 8 hours for workers.

Table 8: Summary of Estimated Costs for Town of Smithtown (2017$)

Alternative	Number of Residents (Assisted Living)	Number of Workers	Projected Cost per Resident	Projected Cost per Worker	Residents Cost	Workers Cost	Total Costs	Net New Costs
No Action	0	172	$1,350	$450	$0	$80,000	$80,000	-
Proposed Project	320	911	$1,350	$450	$430,000	$410,000	$840,000	**$760,000**
Alternative 1	220	906	$1,350	$450	$300,000	$410,000	$710,000	**$630,000**
Alternative 2	280	965	$1,350	$450	$380,000	$430,000	$810,000	**$730,000**
Alternative 3	365	928	$1,350	$450	$490,000	$420,000	$910,000	**$830,000**
Alternative 4	0	1,078	$1,350	$450	$0	$490,000	$490,000	**$410,000**
Alternative 5	0	735	$1,350	$450	$0	$330,000	$330,000	**$250,000**

Finally, HR&A projected the net fiscal impact to the Town of Smithtown for the no-action scenario, the Proposed Project, and the five alternatives, as shown in Table 9 by subtracting the projected costs from the property tax revenues generated by the different development alternatives. For the Proposed Project, the total positive net new impact would be $3 million in 2017 dollars.

Table 9: Summary of Net Fiscal Impact for Town of Smithtown (2017$)

Alternative	Total Taxes	Total Costs	Net Fiscal Impact	Net New Fiscal Impact
No Action	$400,000	($80,000)	$320,000	-
Proposed Project	$4,160,000	($840,000)	$3,320,000	**$3,000,000**
Alternative 1	$3,530,000	($710,000)	$2,820,000	**$2,500,000**
Alternative 2	$3,720,000	($810,000)	$2,910,000	**$2,590,000**
Alternative 3	$4,280,000	($910,000)	$3,370,000	**$3,050,000**
Alternative 4	$2,720,000	($490,000)	$2,230,000	**$1,910,000**
Alternative 5	$1,110,000	($330,000)	$780,000	**$460,000**

Appendices

Appendix A: IMPLAN Inputs for One-time Economic Impacts from Construction

	Vertical Construction	Horizontal Construction
No Action	$0	$0
Proposed	$123,546,000	$23,970,000
Alternative 1	$101,368,000	$23,970,000
Alternative 2	$102,838,000	$23,970,000
Alternative 3	$125,515,000	$23,970,000
Alternative 4	$70,150,000	$23,970,000
Alternative 5	$54,984,000	$23,970,000
Industry Code	*57*	*57*

IMPLAN Industry Code Definition

57	Construction of new commercial structures, including farm structures

Appendix B: IMPLAN Inputs for Annual Recurring Economic Impacts from Operations

	Light Industrial	Catering Facility	Hotel	Restaurant	Fitness and Spa	Medical Office	General Office	Assisted Living
No Action	$14.4	$1.3						
Proposed Project	$14.4	$1.3	$10.6	$3.4	$0.4	$51.3		$20.4
Alternative 1	$14.4	$1.3	$7.1	$2.2	$0.3	$59.1		$13.9
Alternative 2	$14.4	$1.3				$59.1	$11.9	$17.8
Alternative 3	$14.4	$1.3	$8.5	$2.7	$0.3	$53.6		$23.2
Alternative 4	$14.4	$1.3				$96.2		
Alternative 5	$64.0	$1.3						

Note: Values presented in millions

Industry Code	405	503	499	501	497	477	462	483

IMPLAN Industry Code Definitions

405	Retail - General merchandise stores
503	All other food and drinking places
499	Hotels and motels, including casino hotels
501	Full-service restaurants
497	Fitness and recreational sports centers
477	Offices of other health practitioners
462	Office administrative services
482	Hospitals

Appendix C: Summary of Property Tax Allocation by Receiver (2017$)

Alternative	Smithtown School District	Town Wide General Town and County	Town Wide Excluding Villages	Smithtown Library	St. James Fire District	Street and Arterial Highway	Total Taxes	Net New Taxes
No Action	$273,000	$30,000	$66,000	$10,000	$19,000	$1,000	$396,000	-
Proposed Project	$2,859,000	$319,000	$686,000	$103,000	$196,000	$12,000	$4,161,000	**$3,765,000**
Alternative 1	$2,424,000	$270,000	$581,000	$87,000	$166,000	$10,000	$3,534,000	**$3,138,000**
Alternative 2	$2,549,000	$284,000	$611,000	$92,000	$175,000	$11,000	$3,723,000	**$3,327,000**
Alternative 3	$2,926,000	$326,000	$702,000	$106,000	$201,000	$12,000	$4,277,000	**$3,881,000**
Alternative 4	$1,860,000	$207,000	$446,000	$67,000	$128,000	$8,000	$2,716,000	**$2,320,000**
Alternative 5	$764,000	$85,000	$183,000	$28,000	$52,000	$3,000	$1,111,000	**$715,000**
Allocation	*68.5%*	*7.6%*	*16.4%*	*2.5%*	*4.7%*	*0.3%*		

Note: Allocation corresponds to current tax code 76, which, as per the Town of Smithtown Assessor, will remain regardless of new uses.

Appendix D: Explanation of Table Calculations

The following explanations outline the steps taken to derive the table total.

Table	Calculation Explanation
1	Total GSF is equal to the sum of the GSF for the caterer facility, existing industrial, new industrial, medical office, and general office, assisted living (not shown), and hotel (not shown).
2	Total costs are the sum of infrastructure costs, vertical hard costs, and vertical soft costs.
3	Total one-time impacts and jobs from construction are the sum of the direct, indirect, and induced impacts and jobs, respectively.
4	Jobs per net square foot are a product of the net square feet (by use) multiplied by the net square feet per job ratio (by use).
5	Total ongoing impacts and jobs from operations at full build out are the sum of the direct, indirect, and induced impacts and jobs, respectively. The net new impacts and jobs are the difference between the total impacts and jobs per alternative less the total impacts and jobs of the no action alternative.
6	Total assessed value is the sum of the capitalized value of the new program, assessed value of the new program, and assessed value of the existing program. The net new assessed value is the difference between the total assessed value per alternative less the total assessed value of the no action alternative.
7	Total annual property taxes at full build out are the sum of the tax obligation to the Smithtown School District, the Town, and other entities (listed in Appendix C). The net new taxes are the difference between the total taxes per alternative less the total taxes of the no action alternative.
8	Total costs to the Town of Smithtown are the sum of resident and worker costs. Resident costs are equal to the product of the number of residents multiplied by the projected cost per resident, while worker costs are the product of the number of workers multiplied by the projected cost per worker. The net new costs are the difference between the total costs per alternative less the total costs of the no action alternative.
9	Net fiscal impact is the difference between total taxes and total costs. The net new fiscal impact is the difference between the net fiscal impact per alternative less the net fiscal impact of the no action alternative.

Memorandum

To: Kevin M. McAndrew, Cameron Engineering & Associates

From: Todd J. Poole, Managing Principal

Date: July 22, 2018

Re: Gyrodyne Site Subdivision – Economic and Fiscal Impact Analysis Supplementary Memo

4ward Planning, a land-use economics consulting firm, is expert in the performance of market, economic and fiscal impact analyses, having performed numerous such studies for private, non-profit and public sector clients throughout the northeastern United States. 4ward Planning also has deep experience in estimating housing demand, including workforce housing associated with new commercial development.

Cameron Engineering and Associates (CEA) has requested 4ward Planning review and supplement an earlier completed economic and fiscal impact analysis (developed by HR&A Advisors), associated with a proposed and alternative redevelopment plans for the nearly 75-acre Gyrodyne Subdivision Project site, within the town of Smithtown, New York.

In particular, 4ward Planning is tasked with addressing following two questions:

1. *What are the likely secondary impacts, such as workforce housing and the generation of public school-age children, associated with the proposed development and several alternative development schemes modeled?*

2. *What are the community services impacts and benefits (tax revenues, jobs, etc.) associated with redevelopment Alternative Scenario 7?*

In order to competently address the above questions, 4ward Planning conducted a thorough review of HR&A's July 14, 2017 memorandum "Economic and Fiscal Impact Evaluation of the Gyrodyne Subdivision Project." Additionally, CEA furnished 4ward Planning with Alternative Scenario 7 (the alternative redevelopment plan which complies with the "un-adopted" Comprehensive Plan Update) for purposes of addressing question 2 (it should be noted that the aforementioned Alternative Scenario 7 was not available to be included in the HR&A fiscal and economic impact analysis).

HR&A's economic impact analysis identifies the direct, indirect and induced impacts (e.g., economic output and full-time equivalent (FTE) employment, inclusive of construction and long-term operations), associated with the Proposed development plan and each alternative development plan. The fiscal impact analysis performed for each of the same plans identified the estimated real property tax revenues associated with the build-out program at stabilization and the attendant municipal service costs (as no public school-age children would be expected, given that each development scenario features only commercial development, school district costs are not considered).

The net difference between estimated tax revenues and service costs was then calculated, showing that each of the development scenarios (the preferred and alternatives) exhibits an estimated positive net fiscal impact (see page 8 of the July 14, 2017 memo).

In answering the first of the two questions identified above, it is important to acknowledge that the creation of new jobs (particularly full-time jobs) will typically lead to some degree of net new demand for housing (whether for-sale, rental or both). In particular, where a large number of jobs are created there is a strong likelihood that there will be an increase in demand for housing in reasonable proximity to where the new employment is located (it is assumed that workers who live at a considerable distance from where they work (e.g., 40 minutes and longer) will, generally, choose to shorten their commute time, if quality housing at a price affordable to their income exists closer to their place of employment than where they currently reside, all other things being equal (quality of life, tax rates, quality of school district, crime rates, shopping amenities, etc.)).

Further, even among those workers who currently commute from a considerable distance, very few may choose to seek housing close to their new place of employment (in this case, the Gyrodyne site), due to other considerations, such as where a spouse currently works or the school district in which their children are currently enrolled.

Additionally, many low- and moderate-income workers who would be required to staff a large number of positions at the Proposed assisted living facility and hotel are likely to commute from within a 40-minute distance and, therefore, create a limited amount of demand for local area workforce housing.

Consequently, while there are a large number of direct jobs projected to be created across all of the development scenarios, and particularly for the Proposed project (999) and Alternatives 1 *(848)*, 2 *(861)* and 3 *(1,015)*, it is likely that only a small fraction of these new workers (less than five-percent) will generate new demand for local area housing. Further, and given this relatively conservative estimate, it is more likely than not that those workers seeking local area housing will do so through the purchase or rental of existing area housing stock – placing little, if any, increased demand on local municipal and school district services.

Alternative 7, as identified by CEA, is not too dissimilar from the Proposed development scenario, as exhibited in the below table:

	Medial Office GSF	Assisted Living Units	Hotel Rooms
Proposed	128,400	220	150
Alternative 7	128,000	240	125

Source: Cameron Engineering & Associates, 2018

As can be seen, the difference in the amount of office space associated with the Proposed development and Alternative 7 is quite small, and would likely result in at least one fewer worker in Alternative 7, based on HR&A's employment benchmark for office space.

Alternative 7 realizes an increase of 20 additional assisted living units over that identified with the Proposed scenario, which will, likely, require at least two to three additional full-time workers. However, the reduction from 150 to 125 hotel rooms in Alternative 7 will likely lead to a reduction of two to three workers. Consequently, there is little difference in the total number of persons likely to be employed in the Proposed development scenario versus the Alternative 7 development scenario.

Finally, given that the Proposed and Alternative 7 build-out programs are relatively similar, the estimated real property tax revenue associated with Alternative 7 is also likely to be quite similar to that for the Proposed development (either slightly higher or lower to the revenue value identified for the Proposed development).

CUSHMAN & WAKEFIELD

FLOWERFIELD SAINT JAMES
NEW HOTEL DEVELOPMENT IMPACT ON LOCAL HOTEL MARKET

The following statistics come from the national hotel industry analytic company Smith Travel Reports (STR).

Occupancy rates for Long Island were at 71.3% in 2017. The ADR for Long Island was $148 for 2017. The RevPAR was $106 for 2017 (see definitions at end).

Long Island has the highest occupancy rate compared against similar areas for 2017.

The forecast for Long Island in 2018 according to STR is as follows:

Supply	+2.1%
Demand	+1.9%
Occupancy	- .02%
ADR	+2.5%
Rev par	+2.3%

The Long Island occupancy rate average is 71.3% and locally the Hilton Garden Inn at Stony Brook University has an average occupancy rate of 90%.

Due to its unique location, the demand driving increased hotel activity and occupancy for hotel rooms outweighs the current supply due to the following factors that are relevant and unique to the local hotel market surrounding Flowerfield in St. James, New York:

Higher Education
Stony Brook University
Stony Brook University Research and Development
Suffolk County Community College

Hospitals
University Hospital Center and 500,000 SF Expansion
Long Island Veterans Nursing Home
Mather and St. Charles Hospital
St. Catherine's Hospital

For more information, please contact:

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CUSHMAN & WAKEFIELD

FLOWERFIELD SAINT JAMES
NEW HOTEL DEVELOPMENT IMPACT ON LOCAL HOTEL MARKET

Senior Assisted Living and Nursing Homes
Long Island Veterans Nursing Home
Smithtown Senior Assisted Living
Sunrise of Smithtown
The Bristal at Lake Grove
Whisper Woods of Smithtown
Mills Pond Nursing and Rehabilitation Center
Sunrise of Setauket
Smithtown Center for Rehabilitation
St. James Rehabiltation and Healthcare Center
Amber Court of Smithtown
Brookside Multicare Nusing Center
Woodhaven Nursing Home
Atria South Setauket

Wedding and Event Venues located in close proximity to Flowerfield including:

Flowerfield Celebrations – St. James
The Watermill Inn - Smithtown
The Meadow Club - Port Jefferson
The Old Field Club in Setauket
The Three Village Inn - Stony Brook
The Miller Place Inn - Miller Place
Windows on the Lake - Ronkonkoma
Nissequogue Country Club
Smithtown Landing Country Club
Stonebridge Country Club
Waterview at Port Jefferson Country Club
Danford's Inn – Port Jefferson

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FLOWERFIELD SAINT JAMES
NEW HOTEL DEVELOPMENT IMPACT ON LOCAL HOTEL MARKET

Currently there are 4 Long Island Hotel developers and operators as well as several national hotel chains that are interested in developing the hotel opportunity at Flowerfield.

Two of the Long Island based hotel developers and operators currently own and operate hotel properties nearby and need additional hotel rooms to satisfy demand and want to develop this hotel opportunity at Flowerfield.

Definitions

Revenue per available room (RevPAR) is a performance metric used in the hotel industry. It is calculated by multiplying a hotel's average daily room rate (**ADR**) by its occupancy rate.

Average Daily Rate (commonly referred to as **ADR**) is a statistical unit that is often used in the lodging industry. However, ADR itself is not enough to measure the performance of the hotel. One should combine ADR, occupancy and RevPAR (revenue per available room) to make a sound judgment on hotel performance.

In simple terms, **occupancy rate** refers to the number of occupied rental units at a given time, compared to the total number of available rental units at that time.

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Appendix I:

Environmental Site Assessments/Reports

GYRODYNE PROPERTY
1 FLOWERFIELD
ST. JAMES, NEW YORK

PHASE I
ENVIRONMENTAL SITE ASSESSMENT
(ASTM 1527-13/40 CFR PART 312)

PREPARED FOR:

Gyrodyne, LLC
1 Flowerfield
St. James, New York 11780

PREPARED BY:

P.W. Grosser Consulting, Inc.
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Bohemia, New York 11716
Phone: 631-589-6353
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PWGC Project Number: GCA1701

JUNE 2017

PWGC Strategic Environmental Engineering Solutions

PHASE I ENVIRONMENTAL SITE ASSESSMENT
GYRODYNE PROPERTY, ST. JAMES, NEW YORK

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GYRODYNE PROPERTY, ST. JAMES, NEW YORK

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APPENDICES

PWGC Strategic Environmental Engineering Solutions

LIST OF ACRONYMS

AAI	All Inclusive Inquiries
ACM	Asbestos Containing Material
AOC	Area of Concern
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AUL	Activity Use Limitation
CBS	Chemical Bulk Storage
CERCLA	Comprehensive Environmental Response, Compensation, and Liability
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESQG	Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CORRACTS	Corrective Action Activity
CREC	Controlled Recognized Environmental Condition
DOB	Building Department
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
F&E	Freudenthal & Elkowitz Consulting Group, Inc.
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FOIA	Freedom of Information Act
HAS	Historical Auto Station
HDC	Historical Drycleaner
HREC	Historical Recognized Environmental Condition
HSWDS	Hazardous Substance Waste Disposal Site Study
HVAC	Heating Ventilation and Air Conditioning
KTRNA	KTR Newmark Associates
LEA	Laurel Environmental Associates, Ltd.
LKB	Lockwood, Kessler & Bartlett, Inc.
LNAPL	Light Non-Aqueous Phase Liquid
LQG	Large Quantity Generator
LTANKS	Leaking Underground Storage Tank Sites
MGP	Manufactured Gas Plant
MOSF	Major Oil Storage Facility
NFA	No Further Action
NGVD	National Geodetic Vertical Datum
NPL	National Priority List
NYSDEC	New York State Department of Environmental Conservation
NYSPILLS	New York State Spills
PBS	Petroleum Bulk Storage

PCB	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PWGC	P.W. Grosser Consulting, Inc.
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
ROD	Record of Decision
RSCO	Recommended Soil Cleanup Objective
SCDHS	Suffolk County Department of Health Services
SCO	Soil Cleanup Objective
SCWA	Suffolk County Water Authority
SEMS	Superfund Enterprise Management System
SHWS	Inactive Hazardous Waste Disposal Sites in New York State
SQG	Small Quantity Generator
STP	Sewage Treatment Plant
SVOC	Semi-Volatile Organic Compound
SWF	Solid Waste Facility
SWRCY	Registered Recycling Facilities
SWTIRE	Registered Waste Tire Storage Facilities
TSD	Treatment/Storage/Disposal Facility
UIC	Underground Injection Control
USC	United States Code
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
VEC	Vapor Encroachment Condition
VOC	Volatile Organic Compound

1.0 EXECUTIVE SUMMARY

Gyrodyne, LLC (Client) retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase I Environmental Site Assessment (ESA) for the property located at 1 Flowerfield, St. James, New York. The purpose of the Phase I ESA was to identify and evaluate the presence of Recognized Environmental Conditions (RECs) at the subject site in support of a potential industrial subdivision application for the property. RECs are the presence or likely presence of any hazardous substance or petroleum product under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum product into structures on the property or into the ground, groundwater or surface water of the property.

The subject property consists of five parcels located at 1 Flowerfield (aka 199 Mills Pond Road) in the Hamlet of St. James, New York. The site is located in the Town of Smithtown and Suffolk County. The property is identified in the Suffolk County Tax Map as:

- 0800-040.00-02.00-004.000
- 0800-040.00-02.00-013.003
- 0800-040.00-02.00-013.004
- 0800-040.00-02.00-014.000
- 0800-040.00-02.00-015.000

The subject property measures approximately 74.98 acres and is occupied by multiple commercial/industrial buildings, identified as follows:

- Catering Facility
    - Main Building – Single story building, with no basement. Used as Catering Facility ballroom, dining room, bars, kitchens.
    - House A – Two story building with basement. Basement contains boiler and laundry room. First floor used for Catering Facility storage. Second floor is a residential apartment.
    - House B – Single story building with basement. Basement is used for Catering Facility storage. First floor is used as Catering Facility storage, and a suite for Catering Facility clients.
    - House C – Dilapidated, abandoned building. Not accessible for inspection.
    - Garage – Single story building with no basement. Used for storage of catering, maintenance, and landscaping equipment.
- Industrial Area
    - Building 1 – Two story building with no basement. Used as office space.

- Building 2 – Single story building with no basement. Used as office and commercial space.
- Building 7 - Single story building (partial second story) with no basement. Used as office and commercial space.
- Building 8 - Single story building with no basement. Used as office and commercial space.
- Bus Depot – Fenced parking lot used for storage of school busses. No permanent structures are present.
- Fairgrounds – Empty fields located on the northern portion of the property. No permanent structures are present. Several portable toilets were present at the Fairgrounds during site reconnaissance.

Work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-13 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process), 40 Code of Federal Regulations (CFR) Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule) and PWGC's proposal for services.

PWGC evaluated the findings associated with the subject property and identified seven RECs, one HRECs and no CRECs with respect to the subject property. Conditions evaluated as potential RECs are detailed below:

- The site is currently and has historically been used for industrial purposes, including woodworking, auto repair, machine shop, and HVAC, from the 1960s to present. The usages are commonly associated with the storage and use of hazardous substances and petroleum products at the site; usage/storage of such materials was confirmed in several locations during site reconnaissance. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past (see Sections 8.2.8 and 8.2.9). Based on this information, the historical usage of the site for industrial purposes, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.
- A portion of the site is currently used as a Catering Facility. Two commercial kitchens are present in the Catering Facility Main Building. The presence of commercial kitchens is commonly associated with the usage of commercial grade degreasing/cleaning compounds and disinfectants. The presence of onsite sanitary systems, and floor drains associated with the Catering Facility represent pathways for such substances to potentially have been released to the environment. Based on this information, the

historical usage of the site as a Catering Facility, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.

- The site was historically used for agricultural purposes from the early 1900s through the 1950s. The historic usage of the site for agricultural purposes is likely to be associated with the application of pesticides and herbicides at the site. During the period the subject site has been used for agricultural purposes, pesticides used may have included now-banned chemicals (such as DDT), or metals based compounds (such as lead arsenate). Compounds such as these, particularly metals based compounds, tend to be immobile in the environment and remain in soil long after their application ceases. However, as documented in the 2006 Surface Soil Sampling Report and 2007 Soil Management Plan (see Section 8.2.5 and 8.2.6), concentrations of metals and pesticides in surface soils at the site were generally below current NYSDEC Unrestricted Use Soil Cleanup Objectives. As the 2006 and 2007 sampling data illustrate that pesticides and metals in surface soils do not appear to significantly exceed current NYSDEC Unrestricted Use Soil Cleanup Objectives, PWGC does not consider the historical usage of the site for agricultural purposes to be a REC.
- Multiple current and past tenants within the industrial portion of the site are identified as RCRA hazardous waste generators, dating back to at least 1987 based on database records. As such, it can be assumed that hazardous wastes have been generated and stored at the site for at least 30 years. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past (see Sections 8.2.8 and 8.2.9). Based on this information, the presence of RCRA hazardous waste generators at the site, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.
- The subject property is listed as an LTANKS and NYSPILLS site. Review of the database report identified four closed LTANKS incidents and two closed NYSPILLS incidents (see Section 6.1.2). Additionally, a 2010 Phase I ESA (see Section 8.2.8) identified two additional closed NYSPILLS incidents that were not included in the current database report (likely due to inadequate address/mapping information). Based on the information available, each of these incidents has been addressed to the satisfaction of NYSDEC. The past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria represents a HREC.

- One UST and multiple ASTs are currently present at the site. Historically, additional USTs and ASTs have been present. Tank information for the site is summarized as follows:
    - During site reconnaissance, PWGC observed 36 ASTs throughout the Industrial Area (see Section 7.2 for details). Tanks were accessible for visual inspection were double walled (Lube Cubes) or installed in secondary containment basins; tanks appeared to be in good condition, with no evidence of leakage or spillage. Based on the lack of evidence of leakage or spillage from these ASTs, PWGC does not consider their presence to be a REC. However, it should be noted that the number of ASTs observed at the site does not appear to reconcile with the SCDHS PBS registration for the site which lists 38 ASTs as being present.
    - SCDHS Records indicate that 12 USTs were previously present at the Industrial Area, and that all 12 USTs have been removed. PWGC was able to locate documentation on the removal of four of the USTs. Smithtown DOB records included a SCDHS inspection form documenting the removal of two 2,000-gallon fuel oil USTs in 2009, and NYSDEC database records for a failed tank test indicate that two 5,000-gallon fuel oil USTs failed tightness testing and were removed under SCDHS oversight with no evidence of impact identified in 1987. The 2004 Phase II ESA for the site (see Section 8.2.4) indicates that a magnetometer survey was performed around Buildings 1, 2, 7 and 8, and that the only USTs identified by the survey were two 2,000-gallon fuel oil USTs documented as being removed in 2009. The 2004 Phase II ESA also included soil sampling at known and suspected UST locations and former UST locations; soil sample analytical results were not indicative of the presence of petroleum impact that would indicate that USTs and/or former USTs had leaked. Based on the fact that there does not appear to be evidence that USTs are currently present within the Industrial Area, and a lack of evidence of a release from USTs formerly present at the site, PWGC does not consider the historical presence of USTs at the Industrial Area to be a REC.
    - During site reconnaissance, PWGC identified one UST at Catering Facility House B. According to SCDHS records this UST is a 1,000-gallon fuel oil tank, which passed a tightness test in 1994. PWGC was unable to locate records for more recent tightness testing of this tank. Based on the apparent age of this tank (20+ years), and lack of recent testing data, it is possible that the tank has leaked, releasing petroleum to the subsurface. Based on this, PWGC believes that this USTs represents a REC.
    - No evidence of USTs was identified at the Catering Facility Main Building, or House A; however, although those buildings are currently heated with natural gas, based on their apparent age (see

Section 4.3), it is possible that they were heated by fuel oil fired systems in the past. Based on this, it is possible that undocumented USTs are present at one or both of the Catering Facility Main Building or House A. As such, these buildings may have had fuel oil USTs present in the past. Additionally, as House C was not accessible for inspection, it is possible that there may have been a fuel oil fired heating system, and associated oil tank, present there as well. Out of service, unmaintained tanks represent a potential past release of a petroleum product to the environmental. Based upon this information, PWGC considers the potential presence of undocumented UST at the Catering Facility to be a REC.

- Several chemical storage areas were observed at the site during site reconnaissance. Chemicals identified included waste oil and automotive fluids, paints, stains, solvents, and landscaping and maintenance supplies. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past (see Sections 8.2.8 and 8.2.9). Based on this information, the presence of chemical storage areas at the site, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.
- Multiple floor drains, sanitary systems and storm drains were identified at the site. Floor drains were identified within the kitchens at the Catering Facility, and Building 7 boiler rooms. Each active building at the site (excluding the Garage at the Catering Facility) is equipped with at least one onsite sanitary system. Multiple sanitary systems were observed at the Catering Facility Main Building (two systems, one associated with each kitchen), Building 1 (two systems), and Building 7 (five systems). Multiple storm drains and catch basins were observed throughout the paved portions of the site. Industrial area sanitary systems and storm drains were sampled in 2011 (see Section 8.2.9). At that time, multiple structures were determined to be impacted, and remediated under the oversight of SCDHS. Remediation was successful and SCDHS issued a No Further Action letter to the site (included in Appendix F). Typically, the past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria represents a HREC; however, as the industrial usage of the site, which presumably caused the impact identified in 2011, has continued, it is possible that additional discharges have occurred since remediation was completed. Additionally, the sanitary systems associated with the Catering Facility kitchens do not appear to have been evaluated in the past. Based on this information, PWGC considers the presence of floor drains, sanitary systems and storm drains at the site to be a REC.

Based on the identified RECs, PWGC recommends a Phase II ESA be performed at the site. The Phase II ESA should include:

- A geophysical survey to identify potential USTs and/or confirm that potential historical USTs have been removed from the Catering Facility Main Building, and House A.
- Collection and analysis of soil samples from UST and/or former UST locations identified by the geophysical survey to confirm that a petroleum release has not occurred.
- Tightness testing and/or soil borings in the vicinity of the House B UST to evaluate whether leakage has occurred.
- Characterization sampling of the Catering Facility Main Building sanitary systems.
- Characterization sampling of the Industrial Area sanitary systems and storm drains.

It should be noted that, as future plans for the site include construction of a sewage treatment plant (STP), SCDHS will require that the existing onsite sanitary systems be properly closed and buildings be connected to the STP once construction is complete. As part of closure, SCDHS will require that the sanitary systems be sampled. As the industrial area sanitary systems have been previously sampled and remediated, PWGC discussed with SCDHS whether they would consent to delaying additional sampling of those systems until the STP is completed and the systems are ready to be closed. In an email dated June 27, 2017 (included in Appendix F), SCDHS indicated that the sanitary systems and storm drains should be included as part of a Phase II ESA based on the findings of this Phase I ESA, and that only structures determined to be impacted by the Phase II ESA may require re-sampling prior to abandonment when the STP is completed.

Previous environmental investigations at the site have identified low level metals in soils throughout former agricultural areas. Based on these findings, SCDHS required that a Soil Management Plan (see Section 8.2.6) be prepared to specify engineering controls and monitoring requirements for these soils during redevelopment of the site. As detailed in Section 8.2.6, the metals concentrations detected prior to development of the Soil Management Plan are generally below NYSDEC Unrestricted Use Soil Cleanup Objectives. Additionally, as discussed in Section 8.2.5 and 8.2.6, the SCDHS guidance document that the Soil Management Plan was based on was never formally adopted by SCDHS. In an email dated June 29, 2017 (included in Appendix F), SCDHS indicated that they no longer regulate soil management as part of subdivision approval, and that responsibility falls on local townships within Suffolk County. Based on this, it appears that the Soil Management Plan prepared in 2007 for SCDHS is no longer required.

Although ASTs at the site appear to be in good condition with no evidence of leakage, the total number of ASTs observed does not appear to reconcile with the number of active ASTs included on the SCDHS PBS registration. PWGC does not consider this to be a REC; however, PWGC recommends that an updated PBS registration be submitted to SCDHS so that their records can be corrected.

Although not a part of the ASTM E1527-13 scope, the following additional site concerns must be considered:

- Based on the apparent age of the buildings at the site, it is possible that ACM and/or lead-based paint are present within the structures. PWGC recommends that, prior to demolition or renovation of the buildings, a proper asbestos and/or lead survey be performed, and identified ACM and/or lead based paint be properly abated.

2.0 INTRODUCTION

2.1 Purpose

Gyrodyne, LLC (Client) retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase I Environmental Site Assessment (ESA) for the property located at 1 Flowerfield, St. James, New York. The purpose of the Phase I ESA was to identify and evaluate the presence of Recognized Environmental Conditions (RECs) at the subject site in support of a potential industrial subdivision application for the property. RECs are the presence or likely presence of any hazardous substance or petroleum product under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum product into structures on the property or into the ground, groundwater or surface water of the property.

2.2 Scope of Services

The assessment consisted of a visual inspection of the site and surrounding areas, interviews, a review of historical information and aerial photographs, and a review of pertinent local, state, federal and facility records. Environmental Data Resources (EDR) of Shelton, Connecticut provided the following: a database search of environmental compliance records of sites within an ASTM standard radius of the property, a Sanborn fire insurance map search, historical aerial photograph search and a historical telephone directory search.

PWGC reviewed the environmental database report compiled by EDR as a part of the assessment. The purpose of the review was to identify reported listings for the subject property or other properties in the site vicinity. Databases reviewed included federal and state lists of known or suspected contaminated sites, lists of known handlers or generators of hazardous waste, lists of known waste disposal facilities, and lists of aboveground and underground storage tanks (ASTs and USTs). PWGC's review of the database has been incorporated into this report along with a copy of the EDR report.

The work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-13 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process), 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule) and PWGC's proposal for services.

2.3 Definitions

1. RECs are the presence or likely presence of any hazardous substance or petroleum product in, on, or at a property: (1) due to any release to the environment; (2) under the conditions indicative of a release to

the environment; or (3) under conditions that pose a material threat of a future release to the environment.

2. Historic RECs (HREC) are identified as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, activity or use limitations (AULs), institutional controls, or engineering controls).
3. Controlled RECs (CREC) are identified as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a No Further Action (NFA) letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls).
4. A *de minimus* condition generally does not present a threat to human health or of the environment, and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimus* conditions are not RECs nor CRECs.

2.4 Significant Assumptions

PWGC has made the following significant assumptions in the preparation of this report:

1. Groundwater Flow Direction – Based upon regional groundwater elevation maps, and local topography, regional groundwater flow direction appears to be toward the northwest.
2. Regulatory Records Information - PWGC assumes that all information provided by EDR regarding the regulatory status of facilities within the ASTM Standard approximate minimum search distance is complete, accurate and current.
3. Other - PWGC assumes that all information provided through interviews is complete and unbiased.

2.5 Limitations and Exceptions

The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections, examination of records in the public domain, and interviews with individuals having information about the site. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of

the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.

2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by PWGC.
4. PWGC's Phase I ESA report presents professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, or regulations, or policies of federal, state, or local government agencies. PWGC does not assume liability for financial or other losses or subsequent damage caused by or related to any use of this document.
5. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
6. This report is based, in part, on information supplied to PWGC by third-party sources. While efforts have been made to substantiate this third-party information, PWGC cannot attest to the completeness or accuracy of information provided by others.

2.6 Special Terms and Conditions

Authorization to perform this assessment was given by a proposal for services between Gyrodyne, LLC and PWGC.

2.7 User Reliance

This report was prepared for the exclusive use of Gyrodyne, LLC. PWGC assumes no liability for use of this report by any person or entity other than those for which it was prepared.

2.8 Data Gaps

Any data gaps identified herein, as defined by ASTM Practice E 1527-13 § 3.2.20, are not considered to have significantly affected the ability to identify RECs in connection with the subject property and do not alter the conclusions of this report. Data gaps identified during the preparation of this Phase I ESA include:

- Portions of the property were not accessible for visual inspection during site reconnaissance (see Section 7.1 for details).

3.0 PROPERTY DESCRIPTION AND PHYSICAL SETTING

3.1 Location and Legal Description

The subject property consists of five parcels located at 1 Flowerfield (aka 199 Mills Pond Road) in the Hamlet of St. James, New York. The site is located in the Town of Smithtown and Suffolk County. The property is identified in the Suffolk County Tax Map as:

- 0800-040.00-02.00-004.000
- 0800-040.00-02.00-013.003
- 0800-040.00-02.00-013.004
- 0800-040.00-02.00-014.000
- 0800-040.00-02.00-015.000

A Site Location Map is included as **Figure 1** and a Site Plan is included as **Figure 2**; photos of the site are included in **Appendix A**.

3.2 Site Description and Improvements

The subject property measures approximately 74.98 acres and is occupied by multiple commercial/industrial buildings, identified as follows:

- Catering Facility
    - Main Building – Single story building, with no basement. Used as Catering Facility ballroom, dining room, bars, kitchens.
    - House A – Two story building with basement. Basement contains boiler and laundry room. First floor used for Catering Facility storage. Second floor is a residential apartment.
    - House B – Single story building with basement. Basement is used for Catering Facility storage. First floor is used as Catering Facility storage, and a suite for Catering Facility clients.
    - House C – Dilapidated, abandoned building. Not accessible for inspection.
    - Garage – Single story building with no basement. Used for storage of catering, maintenance, and landscaping equipment.
- Industrial Area
    - Building 1 – Two story building with no basement. Used as office space.
    - Building 2 – Single story building with no basement. Used as office and commercial space.
    - Building 7 - Single story building (partial second story) with no basement. Used as office and commercial space.

- Building 8 - Single story building with no basement. Used as office and commercial space.
- Bus Depot – Fenced parking lot used for storage of school busses. No permanent structures are present.
- Fairgrounds – Empty fields located on the northern portion of the property. No permanent structures are present. Several portable toilets were present at the Fairgrounds during site reconnaissance.

3.2.1 Municipal Services and Utilities

Utility services are provided to the property as follows:

- Heating/Cooling Systems:
  - Catering Facility
    - Main Building – Roof mounted, natural gas fired heating system.
    - House A – Natural gas fired heating system located in basement.
    - House B – Two fuel oil fired heating systems located in basement, and utility room off of garage. Fuel oil UST is located beneath driveway area in front of garage.
    - House C – Unknown, inaccessible.
    - Garage – None
- Industrial Area
  - Building 1 – One fuel oil fired heating system. Four ASTs located in boiler room.
  - Building 2 – Each individual suite is equipped with its own fuel oil fired heating system and AST. A total of 20 individual heating systems/ASTs were observed.
  - Building 7 – Seven natural gas fired heating systems located in two separate boiler rooms.
  - Building 8 - Each individual suite is equipped with its own fuel oil fired heating system and AST. A total of 11 individual heating systems/ASTs were observed.
  - Bus Depot – None.
  - Fairgrounds – None.
- Water Supply – The property is connected to the municipal water supply system (St. James Water District). One private well is located at the Catering Facility property, which is used to supply water to the manmade pond outside the Catering Facility building.
- Sanitary System – The site is connected to multiple onsite sanitary systems. Each building, with the exception of the Catering Facility garage, is equipped with at least one sanitary system.
- Electric – PSEG Long Island

3.3 Physical Setting

The topography of the site and surrounding area was reviewed from the USGS 7.5-minute series topographic map for the St. James, New York quadrangle. The property elevation is approximately 160 feet above the National Geodetic Vertical Datum (NGVD). Regional physiographic conditions are summarized below.

3.3.1 Regional Geology / Hydrogeology

The geologic setting of Long Island is well documented and consists of crystalline bedrock composed of schist and gneiss overlain by layers of unconsolidated deposits. Immediately overlying the bedrock is the Raritan Formation, consisting of the Lloyd sand confined by the Raritan Clay Member. The Lloyd sand is an aquifer and consists of discontinuous layers of gravel, sand, sandy and silty clay, and solid clay. The Raritan Clay is a solid and silty clay with: few lenses of sand and gravel; abundant lignite and pyrite; and gray, red or white in color.

Above the Raritan Clay lies the Magothy Formation. The Magothy Aquifer consists of layers of fine to coarse sand of moderate to high permeability, with inter-bedded lenses of silt and clay of low permeability resulting in areas of preferential horizontal flow. Therefore, this aquifer generally becomes more confined with depth. The Magothy Aquifer is overlain by the Upper Glacial Aquifer. The Upper Glacial Aquifer is the water table aquifer at this location and is comprised of medium to coarse sand and gravel with occasional thin lenses of fine sand and brown clay. This aquifer extends from the land surface to the top of the Magothy and, therefore, is hydraulically connected to the Magothy Aquifer.

3.3.2 Local Hydrogeology

Based upon the site elevation and regional groundwater contour maps, the depth to groundwater beneath the site is approximately 125 feet below existing grade. Regional groundwater flow is estimated to be toward the northwest.

Based upon information contained within the EDR report, there is one public water supply wellfield within a one-mile radius of the subject property. The Suffolk County Water Authority's (SCWA) Oxhead Road wellfield is located approximately one mile east of the subject property.

3.3.3 Flood Potential

PWGC reviewed the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) to determine if the subject property is located within the 100-year or 500-year flood zones. Based upon FIRM data,

it appears that the subject property is not located within the 100 or 500-year flood zone (FEMA Map Panel ID: 36103C0369G).

3.3.4 Direction and Distance to Nearest Surface Water

Based on topographic maps, it appears that the nearest permanent surface water bodies are two ponds located near the central portion of the subject property.

4.0 PROPERTY USAGE

4.1 Current Property Usage

The subject property is currently used as a Catering Facility, industrial/office space, bus depot, and fairgrounds. A list of current tenants within the industrial area is included in **Appendix F**.

4.2 Current Usage of Adjoining/Surrounding Properties

A summary of the surrounding properties is as follows:

Table 4-1 - Surrounding Property Usage

Direction	Property Description
North	Residential, undeveloped woodlands
South	PSEG substation, residential, undeveloped woodlands
East	Railroad tracks, Stony Brook University Research Park, undeveloped woodlands
West	Residential, undeveloped woodlands

4.3 Historical Usage of Subject Property and Surrounding Properties

Historical sources researched to determine past usage of the subject property and surrounding properties are as follows:

Sanborn Fire Insurance Maps - EDR was retained to provide historical Sanborn fire insurance maps of the subject and adjacent properties. Historical Sanborn maps for the subject property and surrounding area do not exist. A copy of the historical Sanborn no coverage letter is included in **Appendix B**.

Historical Topographic Maps - Historical topographic maps for the subject property and surrounding area were reviewed for the years available which include 1902 to 2013. Review of the maps is summarized in Table 4-2. Copies of historical topographic maps are included as **Appendix C**.

Historical Aerial Photographs - PWGC performed a review of readily available aerial photographs showing the subject property and surrounding area. Photographs were reviewed for the years available which include 1938 to 2011. Review of the photos is summarized in Table 4-2. A copy of the aerial photograph search is included in **Appendix D**.

City Directory Listings - EDR was retained to provide a directory of historical telephone listings at the subject property and surrounding properties. City directories were reviewed for the years available which include 1971 to 2013. A copy of the city directory report is included as **Appendix E**.

Table 4-2 - Subject Property Historical Usage

Date(s)	Source	Issues Noted	Description
1902 to 1919	TM	Yes	The resolution of available topographic maps does not allow for interpretation of the specific usage of the property. However, it appears that at least House A and House B are present at the site.
1938 to 1947	AP, TM	Yes	The northern portion of subject property appears to be used for agricultural purposes. House A, House B, and Building 1 appear to be present at the site. Several small buildings appear to be occupying the space currently occupied by Building 2.
1952 to 1957	AP, TM	Yes	The northern portion of subject property appears to be used for agricultural purposes. House A, House B, and Building 1 appear to be present at the site. The small buildings occupying the space currently occupied by Building 2 appear to have been removed.
1962	AP	Yes	The northern portion of subject property appears to be vacant; no determination as to the usage could be made. House A, House B, Garage, Building 1, Building 2, Building 7 and Building 8 appear to be present at the site. Parking lots associated with the industrial area are present, as well as the southern half of the current Bus Depot parking lot.
1966 to 1970	AP, TM	Yes	The northern portion of subject property appears to be vacant; no determination as to the usage could be made. The Catering Facility Main Building (minus the wing used as the dining room), House A, House B, Garage, Building 1, Building 2, Building 7 and Building 8 appear to be present at the site. Parking lots associated with the industrial area are present. The Bus Depot parking lot appears to have been expanded to its current size.
1979 to 1986	AP, TM, CD	Yes	The northern portion of subject property appears to be vacant; no determination as to the usage could be made. The Catering Facility Main Building (minus the wing used as the dining room), House A, House B, Garage, Building 1, Building 2, Building 7 and Building 8 appear to be present at the site. Parking lots associated with the industrial area are present. The Bus Depot parking lot appears to have been expanded to its current size; two structures are present within the Bus Depot parking lot. City directories identify multiple tenants, including: woodworking, auto repair, pharmaceuticals.
1992 to 2013	AP, TM, CD	Yes	The northern portion of subject property appears to be vacant; no determination as to the usage could be made. The buildings and parking lots at the site appear to be present in their approximate current configuration. Several small structures appear to be present on the western portion of the current Bus Depot parking lot. City directories identify multiple tenants, including: auto repair, woodworking, HVAC, machine shop.
Sources: SB – Sanborn Map; TM – Historical Topographic Map; AP – Aerial Photograph; CD – City Directory			

Historical usage of the subject property indicates that development at the property first began prior to 1902. From the early 1900s to the 1950s, the property appears to have been primarily used for agricultural purposes. From the 1960s to present, the property has been used for commercial/industrial purposes. Historical usage of the subject property indicative of potential RECs include the following:

- Agricultural use from early 1900s through the 1950s.
- Commercial/industrial use from approximately 1960s to present.
- Based on the apparent ages of buildings at the site, it is possible that structures currently heated by natural gas (Catering Facility Main Building, House A, Building 7) were heated by fuel oil fired systems in the past, and, as such, may have had fuel oil USTs present.

Table 4-3 – Surrounding Area Historical Usage

Date(s)	Source	Issues Noted	Description
1902 to 1919	TM	No	The resolution of available topographic maps does not allow for interpretation of the specific usage of the area surrounding the subject property. However, several small buildings appear to be present to the west and south of the site.
1938 to 1957	AP, TM	No	North: Undeveloped, agricultural South: Undeveloped, agricultural East: Undeveloped, agricultural West: Undeveloped, agricultural, residential
1962 to 1985	AP, TM	No	North: Undeveloped, agricultural, residential South: Undeveloped, agricultural, residential East: Undeveloped, commercial West: Undeveloped, agricultural, residential
1994 to 2013	AP, TM	No	North: Undeveloped, residential South: Undeveloped, residential East: Undeveloped, commercial West: Undeveloped, agricultural, residential
Sources: SB – Sanborn Map; TM – Historical Topographic Map; AP – Aerial Photograph; CD – City Directory			

Review of historical information reviewed for the properties surrounding the subject property indicate that the area has been developed since at least 1902. In general, development in the vicinity of the subject property appears to have consisted of residential and agricultural properties, with commercial development on the adjacent property to the east from the 1960 to present. Historical usage of properties in the surrounding area indicative of potential RECs was not identified. PWGC does not consider the current and historical usage of nearby properties for agricultural purposes to be a potential concern, as dispersion of related pesticides or herbicides from such properties to the subject property would likely be indistinguishable from impact related to the historical usage of the subject property for agricultural purposes (as detailed in Table 4-2, above).

5.0 USER PROVIDED INFORMATION

5.1 User Requirements

The user of a Phase I ESA report, as per the USEPA AAI Rule and ASTM E1527-13 has certain responsibilities which include providing the following information, if available, to PWGC to be included within the Phase I Report. Additionally, PWGC provided the user of the report a User Questionnaire form. The information requested in the User Questionnaire is intended to assist in gathering information that may be material to identify if RECs are present at the subject property. A copy of the User Questionnaire and any provided documents are included in **Appendix F**; relevant information has been incorporated into this report.

5.2 Title Records

Title records for the site may contain information about past owners and uses of the subject property. The title report may also contain site information such as restrictive declarations which are limitations on site uses based upon know environmental conditions. PWGC was provided a copy of a title report for the subject property dated November 2, 2016. Review of the title report did not identify information indicative of potential environmental concerns related to the property, or restrictive declarations related to known environmental conditions. A Copy of the title report is included in **Appendix F**.

5.3 Environmental Liens

An environmental lien is a charge, security or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup or other remediation of hazardous substances or petroleum products upon a property, including, but not limited to, liens imposed pursuant to CERCLA 42 USC § 9607 (1) & 9607(r) and similar state and local laws. PWGC retained EDR to perform an environmental lien search for each parcel included in the subject property. Based on review of the lien search report, it does not appear that environmental liens or activity and use limitations (AULs) have been imposed on the subject property. A copy of the lien search report is included in **Appendix F**.

5.4 Specialized Knowledge

The user provided no specialized knowledge about the property to PWGC.

5.5 Commonly Known or Reasonably Ascertainable Information

The user provided no commonly known information about the property to PWGC.

5.6 Valuation Reduction for Environmental Issues

The user provided no information regarding price adjustments to the subject parcels value due to environmental issues.

5.7 Owner, Property Manager and Occupant Information

The property is currently owned and occupied by Gyrodyne, LLC, and is occupied by multiple commercial tenants (tenant list included in **Appendix F**).

5.8 Reason for Performing Phase I ESA

The Phase I ESA was performed to evaluate potential RECs prior to a potential industrial subdivision application for the property.

6.0 RECORDS REVIEW

6.1 Standard Environmental Record Sources

EDR of Shelton, Connecticut was retained to provide a database search of the project area within an ASTM-standard radius of the subject property. A list of the databases searched and the search radii is shown on the summary table below. PWGC reviewed the database output to determine if the property appears on any of the regulatory agency lists. Detailed information concerning each database list is provided in the EDR report (**Appendix G**).

In order to evaluate the potential for a site to have an adverse impact to the subject site, the migration pattern of contaminants in media such as groundwater or soil vapor is considered. Based upon the presumed regional flow towards the northwest, the following is assumed:

- Sites located southeast of the subject site are considered to have the highest potential to impact the subject site and are referred to as "up gradient."
- Sites located northwest of the subject site, which are not neighboring or adjacent to the subject site are considered to have the least potential to impact the subject site and are referred to as "downgradient."
- All other sites not adjacent to or neighboring the subject property are referred to as "cross-gradient" and are considered to have minimal potential to impact the subject site.

A summary of standard environmental record sources researched is as follows:

6.1.1 Federal Databases

The table below summarizes the Federal databases that were searched.

Table 6-1 - Federal Databases Searched

Agency	Listing Name or database Searched	Abbreviation	Search Distance	Target Property Identified	Nearby Properties Identified
USEPA	National Priority List	NPL	1.0 mile	No	1
USEPA	National Priority List Deletions	Delisted NPL	0.5 mile	No	0
USEPA	Superfund Enterprise Management System	SEMS	0.5 mile	No	1
USEPA	Superfund Enterprise Management System Archive	SEMS-ARCHIVE	0.5 mile	No	0

Agency	Listing Name or database Searched	Abbreviation	Search Distance	Target Property Identified	Nearby Properties Identified
USEPA	Resource Conservation and Recovery Act Corrective Action Activity	CORRACTS	1.0 mile	No	0
USEPA	Resource Conservation and Recovery Act Treatment/Storage/Disposal Facilities	RCRA TSD	0.5 mile	No	0
USEPA	Resource Conservation and Recovery Act Small/Large Quantity Hazardous Waste Generators	RCRA SQG/LQG	Subject Property and Adjoining	Yes	1
USEPA	Federal Institutional/Engineering Control registries	US INST/ENG Controls	Subject Property	No	N/A
USEPA	Emergency Response Notification System	ERNS	Subject Property	No	N/A
USEPA	Superfund (CERCLA) Consent Decrees	CONSENT	1.0 mile	No	0
USEPA	Records of Decision	ROD	1.0 mile	No	1
USEPA	Mines Master Index	MINES	0.25 mile	No	0

Review of the EDR Radius Map Report indicates that the subject property is listed in Federal environmental databases searched. The subject property and nearby properties identified within the ASTM standard federal database search radii are detailed below.

National Priority List - The National Priority List (NPL) is the Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the federal Superfund Program.

The subject property is not identified as a NPL site. One site within the search radius is identified as a NPL site (Smithtown Groundwater Contamination). This site is a large (approx. four square mile) plume of groundwater impacted with tetrachloroethene (PCE) located within the Village of Nissequogue, Village of Head of the Harbor, and Hamlet of St. James. According to the database report, the plume is located to the west of the subject property (down gradient), and the nearest edge of the plume is located approximately 2,000 feet to the west of the subject property. Based on the down gradient direction, and distance from the subject property, this NPL site does not appear to represent an environmental concern to the subject property.

Superfund Enterprise Management System - SEMS tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

The subject property is not identified as a SEMS site. One site within the search radius is identified as a SEMS site. This SEMS site is the Smithtown Groundwater Contamination site discussed above under its NPL listing. As detailed above, this site does not appear to represent an environmental concern to the subject property.

RCRA Generators - The RCRA Generators database is a compilation of reporting facilities that generate hazardous waste. A Small Quantity Generator (SQG) is a site which generate more than 100 and less than 1000 kg of hazardous waste during any one calendar month and accumulates less than 6000 kg of hazardous waste at any time; or a site which generates less than 100 kg of hazardous waste during any one calendar month and accumulates less than 1000 kg of hazardous waste at any time. Large Quantity Generators (LQG) generate more than 1000 kg of hazardous waste per month. A Conditionally Exempt SQG (CESQG) generates less than 100 kg of waste a month. A RCRA non generator (RCRA Non-Gen) no longer produces hazardous waste.

The subject property is identified as a RCRA Generator site. A total of 14 RCRA generators are listed for the subject property. Information available for each RCRA generator at the subject property is summarized in the table below:

Site ID	Generator Type	Status	Waste Type	Violations
Gyrodyne of America	Former SQG	Non-Gen as of 1999	Waste Oils	None Listed
ASKD Karate-DO	CESQG	Active as of 2014	Not Listed	None Listed
Mesoscribe Technologies	CESQG	Active as of 2014	Used Oil	Two written informal compliance violations in 2014. Achieved compliance in 2014
Beukers Promotions	Former SQG	Non-Gen as of 1987	Corrosive Wastes	None Listed
Custom Autocraft	CESQG	Active as of 2014	Not Listed	None Listed

Site ID	Generator Type	Status	Waste Type	Violations
Sama Millwork	CESQG	Active as of 2014	Not Listed	One written informal compliance violation in 2014. Achieved compliance in 2014
Biothotic	CESQG	Active as of 2013	Not Listed	One written informal compliance violation in 2013. Achieved compliance in 2013
Solarsun	CESQG	Active as of 2014	Not Listed	One written informal compliance violation in 2014. Achieved compliance in 2014
CDM Dynamics	Former Generator	Non-Gen since 2003	Not Listed	None Listed
Quest Laser Services	CESQG	Active as of 2014	Not Listed	One written informal compliance violation in 2014. Achieved compliance in 2014
Staiger Instrument Co.	Former Generator	Non-Gen since 1988	Corrosive Wastes	None Listed
Sound Color	Former LQG	Non-Gen since 1999	Corrosive Wastes	None Listed
American Cube Corp.	Former LQG	Non-Gen since 1999	Not Listed	None Listed
Eurasian Carburetor Corp.	Former LQG	Non-Gen since 1999	Corrosive Wastes Metals	None Listed

One property adjacent to the subject property is identified as a RCRA Generator site. This site is identified as the LILCO-Flowerfield substation, which is located adjacent to the southern property boundary. This site is listed as a RCRA Non-Gen. According to the database listing, PCBs were generated at the site in 1990; RCRA wastes have not been generated at the site since at least 1999, and no violations are listed for the site. Based on the time elapsed since wastes were last generated at this site, and the lack of violations noted, this site does not appear to represent an environmental concern to the subject property.

Records of Decision - Record of Decision (ROD) documents mandate a permanent remedy at an NPL site containing technical and health information to aid in the cleanup.

The subject property is not identified as a ROD site. One site within the search radius is identified as a ROD site. This ROD site is the Smithtown Groundwater Contamination site discussed above under its NPL listing. As detailed above, this site does not appear to represent an environmental concern to the subject property.

6.1.2 New York State Databases

The table below summarizes the State databases that were searched.

Table 6-2 - New York State Databases Searched

Agency	Listing Name or database Searched	Abbreviation	Search Distance	Target Property Identified	Nearby Properties Identified
NYSDEC	Inactive Hazardous Waste Disposal Sites in New York State	SHWS	1.0 mile	No	1
NYSDEC	Hazardous Substance Waste Disposal Site Study	HSWDS	0.5 mile	No	0
NYSDEC	Solid Waste Facility Register	SWF/LF	0.5 mile	No	0
NYSDEC	Registered Recycling Facilities	SWRCY	0.5 mile	No	0
NYSDEC	Registered Waste Tire Storage Facilities	SWTIRE	0.5 mile	No	0
NYSDEC	Leaking Underground Storage Tank Sites	LTANKS	0.5 mile	Yes	2
NYSDEC	Petroleum Bulk Storage (PBS)	UST/AST	Subject Property and Adjoining	Yes	0
NYSDEC	Chemical Bulk Storage (CBS)	CBS AST/UST	Subject Property and Adjoining	No	0
NYSDEC	Institutional/Engineering Control registries	INST/ENG Controls	Subject Property	No	0
NYSDEC	Voluntary Cleanup Agreements	VCP	0.5 mile	No	0
NYSDEC	Brownfield sites	Brownfields	0.5 mile	No	0
NYSDEC	Major Oil Storage Facilities	MOSF	0.5 mile	No	0
NYSDEC	New York State Spills	NYSPILLS	0.125 mile	Yes	5
NYSDEC	Dry Cleaner Site	Drycleaners	0.25 mile	No	0

Review of the EDR Radius Map Report indicates that the subject property is listed in State environmental databases searched. The subject property and nearby properties identified within the ASTM standard State database search radii are detailed below.

New York State Inactive Hazardous Waste Disposal Sites - The New York State Department of Environmental Conservation (NYSDEC) maintains a state priority list of Inactive Hazardous Waste Disposal Sites (SHWS) considered to be actually or potentially contaminated and presenting a possible threat to human health and the environment. Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites.

The subject property is not identified as a SHWS site. One property within the search radius is identified as a SHWS site (Polo French Cleaners). This site appears to be located cross gradient of the subject property and as such, appears unlikely to represent an environmental concern to the subject property.

Leaking Underground Storage Tank Sites - The Leaking Underground Storage Tank Sites (LTANKS) database contains a NYSDEC inventory of reported leaking storage tank incidents. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

The subject property is identified as a LTANKS site. Four LTANKS incidents were listed in the database report:

- Spill 8702462 - According to the database listing, one 10,000-gallon UST failed a tightness test in 1987. The tank was retested after replacing a gasket and the piping system and passed a re-test. Based on the re-test results, NYSDEC closed the spill.
- Spill 8702551 - According to the database listing, one 8,000-gallon diesel UST failed a tightness test, was repaired and passed a re-test in March 1989. The database listing also indicates that at that time, although NYSDCEC was not present, SCDHS was onsite for the removal of two 5,000-gallon fuel oil USTs, and no petroleum impact was observed during the removal of the fuel oil USTs. Based on this, NYSDEC closed the spill.
- Spill 8702806 – This incident appears to be related to failed tightness tests for two 5,000-gallon fuel oil UST. The tanks were removed in March 1989 (witnessed by SCDHS), and no petroleum impact was observed during removal. Based on the dates in the database listing, these USTs appear to be the same tanks noted as being removed under Spill 8702551. Based on this, NYSDEC closed the spill.
- Spill 9009974 – According to the database listing, one 8,000-gallon diesel UST failed a tightness test in December 1990. The tank was removed in March 1991 (Witnessed by SCDHS) and no petroleum impact was observed during removal. Based on this, NYSDEC closed the spill.

Two properties within the search radius are identified as LTANKS sites. Each of the two identified LTANKS sites has been closed by NYSDEC and as such, appear unlikely to represent an environmental concern to the subject property.

Petroleum Bulk Storage - The NYSDEC Petroleum Bulk Storage (PBS) - UST database lists facilities with a petroleum storage capacity of more than 1,100 gallons and less than 400,000 gallons. The NYSDEC Petroleum Bulk Storage - AST database lists facilities with registered ASTs.

The subject property is identified as a PBS site. According to the database report, there is one 6,000-gallon diesel AST registered to the site with Towne Bus listed as the operator. PBS registration for the remainder of the tanks observed at the site (see Sections 7.2 and 7.3) was not included in the database report. This appears likely to be due to a geocoding error (i.e., the site is erroneously plotted outside the search radius), as the tanks at the site are registered with SCDHS (see Section 6.3.1).

No properties adjacent to the subject property are identified as PBS sites.

New York State Spills - The New York State Spills Information Database (NYSPILLS) contains data collected on chemical and petroleum spill incidents reported to NYSDEC since April 1, 1986.

The subject property is identified as a NYSPILLS site. Two NYSDEC spill incidents were listed in the database report:

- Spill 0108129 (Aesop Imaging Glicce) – this spill appears to be associated with a release of an unspecified volume of butyl acetate (a solvent) within Building 7. The fire department responded and ventilated the building, and NYSDEC was notified. No additional remedial measures were listed in the database report. NYSDEC closed the spill in 2003.
- Spill 9010704 (Gyrodyne) – according to NYSDEC notes in the database report, this spill incident was a false report and did not occur. NYSDEC closed the spill in 1991.

Five properties within the search radius are identified as NYSPILLS sites. Each of the five identified NYSPILLS sites has been closed by NYSDEC, and as such, appear unlikely to represent an environmental concern to the subject property.

6.1.3 EDR Databases

The table below summarizes the EDR databases that were searched.

Table 6-3 - Additional Databases Searched

Agency	Listing Name or database Searched	Abbreviation	Search Distance	Target Property Identified	Nearby Properties Identified
EDR	Manufactured Gas Plants	MGP	1.0 mile	No	0
EDR	Historical Drycleaners	HDC	0.25 mile	No	0
EDR	Historical Auto Station	HAS	0.125 mile	Yes	0

Review of the EDR Radius Map Report indicates that the subject property is listed in EDR proprietary databases searched. No nearby properties are identified within the EDR proprietary database search radii. The subject property listings identified in EDR proprietary databases are detailed below.

EDR US Historical Auto Stations – EDR has searched national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers.

The subject property is identified as a HAS site. Two HAS listings are identified for the subject property (under four separate addresses: Auto Restoration of Long Island (2006-2012) at 2, 7 and 8 Flowerfield (presumably Buildings 2, 7 and 8 within the Industrial Area), and Carco (1999-2000) at 17 Flowerfield (presumably Building 17, which would place this HAS site at the adjoining property to the east which is currently owned by Stony Brook University, but was formerly part of the Gyrodyne property). The presence of historic auto repair facilities is consistent with the observed current and historical usage of the property.

6.1.4 Orphan Sites

Orphan sites are properties, that due to an inadequate or incomplete address in government databases or in base map files, are not able to be geographically located (i.e. mapped or geocoded). This can occur for several reasons; no street number or street name in address given; the street address is given only as a P.O. Box; or when inconsistencies exist in the address (street number does not exist in the city / zip code given).

Three orphan sites were identified in the EDR report. PWGC performed a cursory review of the address listed. The subject property is identified in the Orphans Summary as a RCRA Non-Gen and LTANKS site (multiple LTANKS

listings) under the name Gyrodyne Company of America. Information related to these listings has been incorporated into Sections 6.1.1 and 6.1.2.

Remaining orphan sites do not appear to be located in the vicinity of the subject property.

6.2 Vapor Encroachment

PWGC performed a Tier 1 Vapor Encroachment Screening for the subject property in accordance with ASTM E2600-15, Vapor Encroachment Screening on Property Involved in Real Estate Transactions. In accordance with ASTM E2600-15, the default Area of Concern (AOC), adjusted to account for the groundwater flow direction in the vicinity of the subject property, is defined as follows:

Direction Relative to Subject Property	Petroleum Impacted Sites AOC Radius	Contaminants of Concern Impacted Sites AOC Radius
Up Gradient	528 feet	1760 feet
Cross Gradient	165 feet (LNAPL) 95 feet (dissolved)	365 feet
Down Gradient	100 feet (LNAPL) 30 feet (dissolved)	100 feet

PWGC evaluated sites identified in Federal and State databases (see Section 6.1) located within the adjusted AOC radii for the potential for petroleum impact and or contaminants of concern (such as PCE) to be present. The following sites were identified within the adjusted AOC:

- The subject property (one PBS Listing, one LTANKS listing, four HAS listings)
- One LTANKS site.

Each of these sites was evaluated for the potential for a vapor encroachment condition (VEC) to be present. Based on these sites' lack of apparent impact present and/or closed status, PWGC has determined that none are likely to represent a VEC at the subject property.

A copy of the Tier 1 Vapor Encroachment Screening is included as **Appendix H**.

6.3 Additional Environmental Record Sources

6.3.1 Freedom of Information Act Requests

Freedom of Information Act (FOIA) requests were sent to the United States Environmental Protection Agency, Region 2 (USEPA), the New York State Department of Environmental Conservation, Region 1 (NYSDEC), the Suffolk County Department of Health (SCDHS), and the Town of Smithtown Building Department (DOB). Copies of FOIA requests are included in **Appendix I**.

As of the date of this report, responses to FOIA requests have not been received, except as noted below. As responses were not provided within the allotted due diligence period, the records were deemed not to be "reasonably ascertainable" at this time. Should records become available at a later date, pertinent information will be forwarded as an addendum upon receipt.

Suffolk County Department of Health Services

The SCDHS file for the site included two separate PBS IDs for the property. Information from the PBS registrations is summarized as follows:

- PBS ID 8-0256 – a PBS registration form dated 1985 showed one 2,000-gallon diesel UST at Building 8. Review of the form indicates that the UST may have been removed in 1984. A current (2017) Tank Compliance Inspection Data Sheet for the site indicates that one active UST (1,000-gallon fuel oil) is present at the site. Based on a tank tightness test report dated July 1994, this tank appears to be the fuel oil UST associated with House B at the Catering Facility.
- PBS ID 8-0257 – a current (2017) Active Tank Listing shows a total of 38 ASTs active at the site. The tanks are numbered Tank 15 through Tank 56 inclusive with the exception of Tanks 40, 41, 53, 55, which are not listed. SCDHS personnel indicated that tank numbers missing from the form have been closed (i.e., removed or abandoned in place). Subsequent to completion of the FOIA review, SCDHS provided via email a list of tanks that have been removed from the site. Tanks associated with this PBS ID are broken down as follows:
    - 19 active 275-gallon fuel oil ASTs.
    - 18 active 280-gallon fuel oil ASTs.
    - One active 550-gallon fuel oil AST.
    - Two 2,000-gallon fuel oil USTs (Tanks 1 & 2), removed in 1996.
    - Two 5,000-gallon fuel oil USTs (Tanks 3 & 4), removed in 1987.
    - One 10,000-gallon fuel oil UST (Tank 5), removed in 2004.

- One 1,000-gallon fuel oil AST (Tank 6), removed in 1996.
- One 2,000-gallon gasoline UST (Tank 7), removed in 1987.
- Two 2,000-gallon fuel oil USTs (Tanks 8 & 9), removed in 2009.
- One 8,000-gallon diesel UST (Tank 10), removed in 1991.
- One 550-gallon fuel oil AST (Tank 11), removed in 1988.
- One 275-galon waste oil AST (Tank 12), removed in 1989.
- Two 550-gallon fuel oil USTs (Tanks 13 & 14), removed in 1997.
- Two 280-gallon fuel oil ASTs (Tanks 40 & 55), removed in 2005.
- One 275-gallon waste oil AST (Tank 41), removed in 1997.
- One 275-gallon diesel AST (Tank 53), which was registered but never installed.
- One 2,500-gallon fuel oil AST (Tank 57), removed in 2005.

- Tank records in the SCDHS file do not show the 6,000-gallon diesel AST that was identified in database report and site reconnaissance (see Section 6.1.2 and 7.2, respectively). The database report indicates that the PBS ID for this tank is 06522 (Gyrodyne records indicate the PBS ID is 8-0252), which indicates that there is a third PBS ID for the site for which SCDHS did not provide records for during the FOIA review.

Town of Smithtown Building Department

The Town of Smithtown Building Department (DOB) file included the following relevant information:

- A building permit and SCDHS Inspection Form (note – this form was not included in the SCDHS file for the site) for the removal of two 2,000-gallon fuel oil USTs from the parking lot to the west of Building 7. These tanks were used to fuel oil-fired heating systems in Building 7 that were replaced by natural gas fired systems at that time. The SCDHS inspection form indicates that the tanks removed were numbered Tank 8 and Tank 9, and no petroleum impact was identified during the tank removal.
- A building permit and SCDHS correspondence for the installation of four 275-gallon ASTs in Building 1. According to DOB records, the tanks were installed in 1997 and the permit was issued retroactively in 2000. A letter from Gyrodyne to DOB dated December 13, 2000 indicates that the four ASTs installed in 1997 replaced a UST which was removed under the oversight of SCDHS in 1996 (possibly Tank 6, based on SCDHS records detailed above). No documentation regarding the removal of this UST was identified.
- A building permit for the installation of one 6,000-gallon diesel AST in 1997. This appears to be the currently existing diesel AST at the Bus Depot.

- Included in backup paperwork for the building permit related to the 6,000-gallon diesel AST is a reference to another permit issued to the site in 1996 for the installation of eight 275-gallon, and one 550-gallon fuel oil ASTs in Building 8.

6.3.2 Publicly Available Information

Information regarding the subject property available on the commercial real estate website www.propertyshark.com (an aggregator of publicly available real estate information) was reviewed to identify pertinent information. No indication of environmental issues was identified.

Copies of publicly available information are included in **Appendix I**.

7.0 SITE RECONNAISSANCE

7.1 Methodology and Limiting Conditions

Mr. Thomas Melia of PWGC performed the site inspection on Wednesday, May 3, 2017. Weather conditions during the inspection were clear with a temperature of approximately 65° Fahrenheit.

The site inspection consisted of an inspection of the accessible interior portions of each building at the site, followed by inspection of the exterior portions of the property. Limitations encountered during site reconnaissance included: lack of access to all suites within Buildings 1, 2, 7 and 8, lack of access to House C due to heavy underbrush and debris around the structure, and lack of access to exterior portions of House B due to the presence of poison ivy around the sides and rear of the structure.

7.2 Aboveground Storage Tanks (AST)

PWGC identified multiple ASTs at the site, broken down as follows:

- Building 1 – tanks were located within the central boiler room for the building:
  - Four 275-gallon fuel oil ASTs located indoors. Tanks were installed in secondary containment basins.
- Building 2 – tanks were located throughout the building; each suite within the building is equipped with its own fuel oil AST:
  - Fourteen 280-gallon fuel oil ASTs located outdoors. Tanks are double walled (Lube Cubes).
  - Six 275-gallon fuel oil ASTs located indoors. PWGC was not able to inspect each tank due to several suites being inaccessible (tank fills/vents were observable from outside the building). Tanks that were visually inspected were installed in secondary containment basins.
- Building 8 - tanks were located throughout the building; each suite within the building is equipped with its own fuel oil AST:
  - Two 280-gallon fuel oil ASTs located outdoors. Tanks are double walled (Lube Cubes).
  - Eight 275-gallon fuel oil ASTs located indoors. PWGC was not able to inspect each tank due to several suites being inaccessible (tank fills/vents were observable from outside the building). Tanks that were visually inspected were installed in secondary containment basins.
  - One 550-gallon AST located indoors. Tank was installed in a secondary containment basin.
- Bus Depot – one AST was located within the Bus Depot parking lot:
  - One 6,000-gallon diesel AST located outdoors. The tank is double walled (Lube Cube).

7.3 Underground Storage Tanks (UST)

PWGC identified evidence of one UST at the site. One fill port and vent line is present outside of House B at the Catering Facility. This tank reportedly fuels two heating systems within House B. No evidence of USTs was identified at the Catering Facility Main Building, or House A; however, although those buildings are currently heated with natural gas, based on their apparent age (see Section 4.3), it is possible that they were heated by fuel oil fired systems in the past. Based on this, it is possible that undocumented USTs are present at one or both of the Catering Facility Main Building or House A.

7.4 Hazardous and Non-Hazardous Chemical Storage

PWGC observed chemical storage consisting of the following:

- Drums of waste oil and automotive fluids in suites used for bus and/or automobile maintenance/repair (Buildings 2 and 8).
- Paints, stains, solvents and other materials used for woodworking/finishing (Buildings 2 and 8).
- Landscaping and maintenance supplies (Catering Facility Garage, Building 2).

7.5 Waste Generation, Storage, and Disposal

PWGC did not identify evidence of waste generation, storage or disposal at the site, other than dumpsters used for routine municipal solid wastes.

7.6 Polychlorinated Biphenyls (PCBs)

PWGC identified potentially PCB containing equipment at the site consisting of multiple pad mounted electrical transformers. However, it should be noted that such transformers are typically owned by the local utility company (i.e., PSEG Long Island) and retrofitted to be non-PCB, as necessary.

7.7 Additional Site Conditions

The following is a summary of visual and/or physical observations made by PWGC at the time of the site inspection. Photographs of pertinent observations are included in **Appendix A**.

Table 7-1 - Additional Site Conditions

Condition	Identified
Interior drains, trenches or sumps.	Yes[1]
Interior stains or corrosion	No
Unusual odors	No
Interior pools of liquid	No
Stained Soils or Pavement	No

Condition	Identified
Stressed Vegetation	No
Indications of solid waste disposal	No
Exterior ponds, pits, or lagoons	Yes[2]
Wastewater or storm water discharge/disposal	Yes[3]
Oil water separators/clarifiers	No
Septic Systems/Cesspools	Yes[4]
Wells (Drinking water, monitoring wells, agricultural/ irrigation wells, or process water wells)	Yes[5]
Petroleum or natural gas pipelines or easements	No
Other	No

1 – Floor drains were observed in the kitchens at the Catering Facility Main Building and Building 7 boiler rooms. No determination as to the discharge point of the floor drains could be made during site reconnaissance; however, it is likely they are connected to the onsite sanitary systems associated with those buildings.

2 – Two ponds are present on the central portion of the site.

3 – Multiple storm drains and catch basins are present throughout the parking areas/roads at the site.

4 – Each active building at the site (excluding the Garage at the Catering Facility) is equipped with at least one onsite sanitary system.

5 – A well is present within a pump house on the Catering Facility property (located to the east of the ponds). The well is reportedly used to supply water to the pond adjacent to the Catering Facility Main Building when the water level in the pond drops.

7.8 Neighboring Properties

PWGC performed a cursory inspection of the neighboring properties from the subject site and public right of ways.

- Neighboring properties to the north and west appear to be used for residential purposes.
- The adjacent property to the east is occupied by the Stony Brook University Research and Development Park. One double walled AST was visible at this site.
- An adjacent property to the south is occupied by an electrical substation. No evidence of chemical spillage or leakage was observed at this property.

8.0 INTERVIEWS

8.1 Current Owner/Occupant

PWGC interviewed the following persons associated with the property:

- Marigene Gallicchio of Gyrodyne, LLC, representative of the current property owner.
- Jorge Bethancourt of Gyrodyne LLC, maintenance person for the property.
- Craig Priemer of Flowerfield Celebrations, the general manager of the Catering Facility.

Information provided by the above persons has been incorporated into this report where appropriate.

8.2 Previous Environmental Reports

PWGC was provided copies of, or had prepared the following previous environmental reports for the subject property:

- 1993 Phase I ESA
- 1997 Review of Environmentally Sensitive Land Report
- 2003 Phase I ESA (Executive Summary only)
- 2004 Phase II ESA (partial copy)
- 2006 Surface Soil Sampling Report
- 2007 Soil Management Plan
- 2008 Industrial Area Sampling Report
- 2010 Phase I ESA
- 2011 Underground Injection Control (UIC) Structure Remediation Report
- 2013 Phase I ESA (Executive Summary only).

Information included in the reports is summarized below:

8.2.1 Phase I ESA (1993)

Lockwood, Kessler & Bartlett, Inc. (LKB) prepared a Phase I ESA for the site in September 1993. Relevant information included in the Phase I ESA included the following:

- The 1993 Phase I ESA also included additional properties to the east of the railroad tracks, that are not included in this Phase I ESA (properties currently occupied by Stony Brook University Research and Development Park).

- The subject property appears to have had the same approximate configuration in 1993 as present, with the exception of several greenhouses and a storage shed occupying a portion of the current Bus Depot parking lot.
- Drums were observed in the current Bus Depot parking lot. No signs of leakage were observed; the drums were reportedly removed prior to completion of the 1993 Phase I ESA.
- Three RCRA Generators (American Cube, Sound Color, Steiger Instrument) were registered to the site in 1993.
- Ten USTs and two ASTs were registered to the site. Tank records also indicate that five of the USTs and one AST registered to the site were previously removed (removal dates ranging from 1987 to 1991).
- Seven NYSDEC Spills were identified for the subject property. Four spill incidents were related to tank test failures, two were related to PCB leaks at the adjacent sub-station, and one appears to have been erroneously assigned to the subject property. Each of the spill incidents was closed by NYSDEC as of 1993.
- RECs identified by LKB included the following:
    - Suspect asbestos containing material (ACM) was identified in boiler rooms at the site.
    - One unused 500-gallon AST, and three unused 275-gallon ASTs were observed in the area currently used as a Bus Depot. LKB recommended that they be properly removed.
    - LKB recommended field screening of surface soils in the area surrounding Building 25 where several drums were found. The report does not indicate where Building 25 was located; however, based on the reference to drums and information provided by persons currently associated with the property, it appears likely that Building 25 was a greenhouse or storage shed formerly located in the current Bus Depot parking lot.

8.2.2 Review of Environmentally Sensitive Land Report (1997)

Freudenthal & Elkowitz Consulting Group, Inc. (F&E) prepared a Review of Environmentally Sensitive Land Report in October 1997. The purpose of the report was to evaluate whether proposed construction at the Catering Facility would adversely impact environmentally sensitive land, in support of an application for a variance related for the proposed construction.

The proposed construction entailed the removal of a temporary structure (tent) to be replaced with a permanent building. Both the temporary structure and new permanent structure would be located approximately 21 feet from the manmade pond outside the Catering Facility. Although construction plans are not included in the report, it appears that the new construction in question was the wing of the Catering Facility Main Building

currently used as a dining room. F&E did not identify rare, endangered or threatened plants, animals or natural communities, and concluded that no ecologic impact was likely. The report does indicate that leaching pools to collect roof runoff from the new structure would be installed to the west of the new structure.

8.2.3 Phase I ESA (2003)

PWGC was provided with the Executive Summary of a Phase I ESA prepared for the site by KTR Newmark Associates (KTRNA). The Executive Summary does not have a date printed on it; however, based on the dates that site reconnaissance was performed (November 2003), the report appears to have been prepared in 2003. Relevant information included in the Phase I ESA included the following:

- The 1993 Phase I ESA appears to include additional properties to the east of the railroad tracks, that are not included in this Phase I ESA (properties currently occupied by Stony Brook University Research and Development Park).
- Based upon the former and current industrial uses at the time, a Phase II sampling investigation was recommended for the site.
- Onsite sanitary systems were identified at buildings 1,2,7, and 8. Sampling of these sanitary systems was recommended.
- Several mounds were identified in the former Fairgrounds area (within the 62.4 acres). There was no evidence that the mounds were related to former dumping, however, that potential could not be ruled out. Excavation of test pits within the mounds was recommended.
- USTs were identified at the site. These included two-2,000 gallon tanks west of Building 7 which contained #2 fuel oil and a documented gasoline UST at Building 8. The Phase I ESA recommended tightness testing of the fuel oil tanks and investigation of the gasoline tank area.
- Historic USTs were documented as having been present at the site. These included the following:
    - Two 2,000 gallon #2 fuel oil tanks located in the vicinity of Building 2. These tanks were reportedly removed in 1996
    - Two 550 gallon #2 fuel oil USTs located in the vicinity of Building 2. These tanks were reportedly removed in 1997 and replaced with ASTs.
    - One 2,000-gallon gasoline UST located outside Building 2. This tank was reportedly removed in 1987.
    - Two 5,000 gallon #2 fuel oil USTs located in the vicinity of Building 7. These tanks were reportedly removed in 1987.
- The Phase I recommended the collection of subsurface samples at each of the former tank areas.

- Numerous fuel oil ASTs were present at the subject property. Evidence of staining was present on asphalt in the vicinity of two of the tanks located at Building 2. Cleaning of the staining was recommended as well as subsurface sampling if evidence of subsurface impacts was present.

8.2.4 Phase II ESA (2004)

Jade Environmental, Inc. (Jade) prepared a Phase II ESA for the site in May 2004. The Phase II ESA appears to have been performed to address the RECs identified in the 2003 KTRNA Phase I ESA. Findings of the Phase II ESA include the following:

- A magnetometer survey was conducted in the vicinity of Buildings 1, 2, 7 and 8. The magnetometer survey revealed two anomalies in the vicinity of Building 2. One was located 100 feet south of the northwest corner of the building. According to building employees, this was the location of the two former gasoline tanks noted above in the Phase I ESA findings. The second anomaly was located on the west side of Building 2. Soil borings and hand excavation of both anomalies did not reveal the presence of any tanks; however, the soils were indicative of being backfill material. Based upon these findings it was determined that the anomalies represent former tank areas, and additional magnetometer surveys were not required.
- Sampling of accessible sanitary system leaching structures as well as select storm drain structures was conducted at Buildings 1, 2, 7, and 8. The data was compared to the SCDHS Action Levels. Based upon the SCDHS Action Levels, storm drains 8ASD and 2CSD would require remediation due to elevated levels of SVOCs. In addition, sanitary leaching pool 1A would require remediation due to elevated levels of cadmium.
- In order to address former tank areas, soil borings were conducted in the vicinity of Buildings 2, 7, and 8. Soil samples at each of these locations were analyzed for VOCs and SVOCs since petroleum products were the primary contaminates of concern. The findings by building were as follows:
    - *Building 2* – Nine borings were conducted in the vicinity of this building. From these borings, six samples were submitted for analysis. At least three of the samples were collected in the former tank areas identified above. The remaining borings were conducted at the suspected former fuel oil tank areas. Analytical results from the six samples revealed low levels of impact, with only one compound detected above their respective RSCOs. The detected compound, Benzo(a)pyrene was detected at 83ug/kg which slightly exceeded its RSCO of 61ug/kg. The levels of impact detected are not indicative a significant release which would require further assessment or remediation.

- *Building 7* – Four borings were collected in this area. Each of the borings were conducted in the vicinity of the active fuel oil tanks located in this area. Analytical results from the four samples revealed low levels of VOC and SVOC impacts from the borings. The detected compounds were at levels well below their respective RSCOs. Based upon these finding, there was no indication that the tanks had leaked.
- *Building 8* – Four borings were conducted in the western side of the building, in suspected former tank locations. Analytical results for each of the four borings were non-detect, so no additional investigation of building 8 was recommended.

- Groundwater at the Gyrodyne site was estimated to be approximately 100' to 120' below grade. Due to the significant groundwater depth, it was determined that installation of new monitoring wells would not be warranted unless there was an obvious source of impact which would reach the subsurface. Existing groundwater supply wells were sampled at the site. This sampling included a well on the catering hall portion of the property which supplies the pond during periods of low rainfall. This well is located in a downgradient direction, based upon regional groundwater data, to Buildings 1, 2, 7, and 8. The well was sampled for VOCs, pesticides, PCBs and metals. Analytical results from the wells revealed that each of the VOC, pesticide, and PCB compounds were non detect. Analytical results for metals only detected concentrations of copper and zinc at background levels. Based upon this data, there was no indication that the former and current uses of the buildings 1, 2, 7, and 8 impacted the groundwater beneath the site at that time.
- At the conclusion of this Phase II ESA, signs of impact were noted with regards to the onsite sanitary systems and the storm drains located in the vicinity of Buildings 1, 2, and 8. As a result, remediation of structures 1A, 8ASD and 2CSD would be warranted. The Phase II ESA also identified low levels of petroleum impact in the former tank areas.

8.2.5 Surface Soil Sampling Report (2006)

PWGC prepared a Surface Soil Sampling Report in October 2006. The report documented surface soil sampling performed at the site to evaluate whether historical usage for agricultural purposes had impacted soils at the site. The work was performed in accordance with SCDHS Standard Operating Procedures for Subdivisions, Developments, or Other Construction Projects with Potential Contaminated Soils (draft 4/24/03").

A total of eight surface soil samples were collected from throughout the site. Samples were collected from 0 to 2 inches below existing grade and analyzed for pesticides and metals. One pesticide (dieldrin) and two metals (beryllium and arsenic) were detected above SCDHS screening levels in one or more samples collected. Beryllium

concentrations were determined to likely be background conditions, rather than related to past usage of the site. Based primarily on the elevated arsenic concentrations, PWGC recommended additional sampling of soils deeper than two inches below grade, and preparation of a Soil Management Plan to address elevated arsenic concentrations during redevelopment of the property.

However, it should be noted that the draft SCDHS guidance document that the sampling work was performed under was never formally adopted by SCDHS. Additionally, the elevated concentrations of beryllium and arsenic are below NYSDEC's Unrestricted Use Soil Cleanup Objectives (SCOs) specified in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, which was adopted in December 2006, and represents the most current SCOs established by NYSDEC. The sole dieldrin concentration detected in samples collected as part of this report exceeded its Unrestricted Use SCO, but was well below its Residential SCO.

8.2.6 Soil Management Plan (2007)

PWGC prepared a Soil Management Plan for the site in May 2007. The Soil Management Plan was prepared in accordance with SCDHS Standard Operating Procedures for Subdivisions, Developments, or Other Construction Projects with Potential Contaminated Soils (draft 4/24/03).

As part of the Soil Management Plan, PWGC collected additional surface soil samples from the site in October 2006 and April 2007. In October 2006, a total of 20 soil samples were submitted for laboratory analysis. In April 2007, a total of 19 soil samples were submitted for laboratory analysis. Beryllium and arsenic were detected at concentrations exceeding their respective SCDHS screening levels in surface soils throughout the site. Beryllium concentrations were determined to be background conditions; arsenic was to be addressed by the Soil Management Plan.

The Soil Management Plan specified that arsenic impacted soils would be managed as follows:

- Impacted soils would be capped by impervious surfaces (e.g., building slabs, roads, pavement, etc.).
- Soils not capped by impervious surfaces would be vertically mixed with deeper, clean soils to reduce the overall arsenic concentrations.
- Vertically mixed areas would be landscaped with sod/vegetation to prevent contact with bare soils.

The Soil Management Plan also specified that confirmatory endpoint soil samples be collected in vertically mixed areas, and that dust monitoring and control measures be implemented during ground intrusive activities.

As noted above in Section 8.2.5, the draft SCDHS guidance document that the work was performed under was never formally adopted by SCDHS. Arsenic and beryllium concentrations in additional soil samples collected and documented in the Soil Management Plan were below the NYSDEC's current Unrestricted Use SCOs.

8.2.7 Industrial Area Sampling Report (2008)

PWGC prepared an Industrial Area Sampling Report in June 2008. The scope of work for the investigation included characterization sampling of the primary structures for sanitary systems associated with the industrial buildings (Buildings 1, 2, 7 and 8), as well as surface soil sampling from the areas surrounding these buildings.

Sanitary system sampling results indicated that sanitary systems associated with Buildings 2 and 7 were impacted above SCDHS Action Levels and would require remediation, as well as characterization of secondary structures within these systems.

Surface soil sampling identified low level semi-volatile organic compounds (SVOCs) above NYSDEC Recommended Soil Cleanup Objectives (RSCOs) at two locations. Based on this, PWGC recommended that soils in these areas be handled under the 2007 Soil Management Plan (detailed above). However, it should be noted that NYSDEC's RSCOs are no longer in use, and the SVOC concentrations detected in these samples were below NYSDEC's current Unrestricted Use SCOs.

8.2.8 Phase I ESA (2010)

Nova Consulting (Nova) prepared a Phase I ESA for the site in May 2010. Relevant information included in the Phase I ESA included the following:

- The 2010 Phase I ESA did not include the Catering Facility or the northwestern portion of the site.
- Tenants at the site observed, or likely to be using/storing hazardous materials included auto repair, woodworking, and onsite maintenance/landscaping storage.
- Buildings 1, 2, 7 and 8 were present at the site in 2010.
- Seven onsite sanitary systems were identified at Buildings 1, 2, 7 and 8.
- Onsite sanitary systems were reportedly remediated in 2005.
- Nova identified multiple ASTs at the site. There is inconsistency in the actual number of tanks observed by Nova, as at various points of the report they list 48, 45 or 39 ASTs present. Additionally, Nova lists ASTs as present at 17 Flowerfield, 18 Flowerfield, and the Bone Yard. No other reference to these locations was identified in Nova's report. According to persons currently associated with the site, these

locations are likely associated with the property to the east which is currently owned by Stony Brook University, but was formerly part of the Gyrodyne property.

- According to Nova, multiple USTs were formerly present at the site. There is inconsistency in the actual number of tanks identified by Nova, as at various points of the report they list 11 or nine former USTs. Additionally, Nova lists former USTs associated with 17 Flowerfield, and 17 Parking Lot. No other reference to these locations was identified in Nova's report. According to persons currently associated with the site, these locations are likely associated with the property to the east which is currently owned by Stony Brook University, but was formerly part of the Gyrodyne property.
- Hazardous substances observed at the site included waste oils, paint, paint thinner, lacquers, and solvents.
- Six pad mounted electrical transformers were observed at the site.
- Potential asbestos containing material was identified at the site.
- RECs identified by Nova included the following:
    - A total of 11 USTs have reportedly been removed from the site. Nova obtained documentation for four of the 11 USTs. It should be noted that the copy of the Phase I ESA provided to PWGC contained copies of documentation for only two USTs (Tanks 8 & 9, see Section 6.3.1). As of the date of their report, Nova had not reviewed the SCDHS file for the site which may contain additional information on the status of USTs at the site. Absent the SCDHS file for the site, Nova concluded that the seven USTs for which closure documentation was not available for represented a REC.
    - The presence of onsite sanitary systems in conjunction with hazardous waste generation at the site represent a REC.
    - A spill of one gallon of diesel fuel reported to NYSDEC in 1991 (Spill No. 9103182) was cleaned up, and closed by NYSDEC. Nova concluded that this was an HREC.
    - Approximately 200 gallons of diesel fuel was released to the pond in the northern portion of the site in 1995, and reported to NYSDEC (Spill No. 9516493). The spill was reportedly remediated by removing 40 cubic yards of impacted soil and 975 gallons of impacted water. Following remedial action, the spill was closed by NYSDEC. Nova conclude that this represented an HREC.
- Based on the findings of the Phase I ESA, Nova offered the following recommendations:
    - No further action related to the ASTs.
    - Review of the SCDHS file for the site followed by a Phase II ESA to investigate former USTs, as necessary.

- A Phase II ESA to evaluate the onsite sanitary systems and storm drains.

8.2.9 UIC Structure Remediation Report (2011)

PWGC prepared a UIC Structure Remediation Report in August 2011 to document remediation of onsite sanitary systems and storm drains located within the industrial area. Work was performed under the oversight of SCDHS. The scope of work documented in the report included additional characterization of secondary cesspools not included in the 2008 sampling event (see Section 8.2.5) as well as characterization of onsite storm drains.

Based on sample results from 2008, and additional characterization detailed above, SCDHS required the remediation of two storm drains, five cesspools, and four septic tanks. A total of 14,000 gallons of liquid waste and 68.18 tons of solid waste was generated and properly disposed of during remediation. Following completion of remedial activities, a confirmatory endpoint soil sample was collected from the base of each structure (excluding solid bottom septic tanks). Endpoint sample results were below SCDHS Cleanup Objectives. Based on this information, SCDHS issued a No Further Action Letter for the onsite sanitary systems within the industrial area (included in Appendix F).

8.2.10 Phase I ESA (2013)

PWGC was provided a copy of the Executive Summary of a Phase I ESA prepared for the Catering Facility by Laurel Environmental Associates, Ltd. (LEA). Relevant information included in the Phase I ESA included the following:

- The Catering Facility appears to have had the same approximate configuration in 2013 as present.
- Two sanitary systems associated with the Main Building kitchens were observed on the north side of the building.
- Floor drains were observed in the kitchens, which were presumed to be connected to the onsite sanitary systems.
- One UST fill port/vent line was observed outside House B.
- One pad mounted electrical transformer was observed at the site.
- Suspect asbestos containing material was observed within the buildings.
- Based on their findings, LEA offered the following recommendations:
  - Characterization sampling of the onsite sanitary systems associated with the Main Building Kitchens.
  - Geophysical survey to identify potential fuel oil USTs that may have been present prior to the site being connected to natural gas service.

8.3 Local Government Officials

Freedom of Information Act (FOIA) requests were sent to the United States Environmental Protection Agency, Region 2 (USEPA), the New York State Department of Environmental Conservation, Region 1 (NYSDEC), the Suffolk County Department of Health (SCDHS), and the Town of Smithtown Building Department (DOB).

Based upon the site history, interviews with government officials to obtain additional information are not warranted at this time.

9.0 CONDITIONS OUTSIDE THE SCOPE OF ASTM 1527-13

9.1 Wetland Delineation

Based on review of the EDR Radius Map Report, which includes State and Federal wetlands, it appears that State and Federal wetlands are present on the subject property, in the vicinity of the two ponds located on the central portion of the site.

9.2 Radon Risk Evaluation

Radon is a colorless, radioactive; inert gas formed by the decay of radium and may be present in soils and rocks containing granite, shale, phosphate and pitchblende. The USEPA's "Map of Radon Zones for New York State", September 1993 indicates that Suffolk County is not a radon risk area. The EDR report provides information from the New York State Department of Health radon survey which indicates that the average result for sites tested in Suffolk County is 0.670 Pico curies per liter (pCi/L) in the living area, which is below the USEPA radon action level of 4 pCi/L, and 100% of sites tested in Suffolk County were below the action level of 4 pCi/L in the living area.

9.3 Asbestos

PWGC identified evidence of potential asbestos containing material (ACM) at the site. consisting of pipe insulation and floor tiles within the Industrial Area buildings. Based on the apparent age of the buildings at the site (both the Catering Facility and the Industrial Area), it is possible that additional potential ACM is present.

9.4 Lead-Based Paint (LBP)

PWGC did not identify evidence of potential lead based paint at the site. However, based on the apparent age of the buildings (both the Catering Facility and the Industrial Area), it is possible that lead based paint/additional lead based paint is present.

9.5 Mold

PWGC did not visually observe significant sources of mold at the site during site reconnaissance.

10.0 FINDINGS AND OPINIONS

Based upon reconnaissance of the subject and surrounding properties, interviews and review of historical records and regulatory agency databases, the following potential RECs have been identified:

Onsite

- Current and historical usage of the site for industrial purposes.
- Current and historical usage of the site as a Catering Facility.
- Historical usage of the site for agricultural purposes.
- Multiple RCRA generators are registered to the site.
- The site is listed as a LTANKS and NYSPILLS site.
- Current and historic presence of multiple ASTs and USTs at the site.
- Multiple chemical storage areas at the site.
- Floor drains, onsite sanitary systems and storm drains are present at the site.

Offsite

- None identified.

Potential RECs identified at the subject property were evaluated to determine whether items initially suspected to be RECs are in fact RECs. Evaluation of potential RECs are as follows:

- The site is currently and has historically been used for industrial purposes, including woodworking, auto repair, machine shop, and HVAC, from the 1960s to present. The usages are commonly associated with the storage and use of hazardous substances and petroleum products at the site; usage/storage of such materials was confirmed in several locations during site reconnaissance. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past (see Sections 8.2.8 and 8.2.9). Based on this information, the historical usage of the site for industrial purposes, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.
- A portion of the site is currently used as a Catering Facility. Two commercial kitchens are present in the Catering Facility Main Building. The presence of commercial kitchens is commonly associated with the usage of commercial grade degreasing/cleaning compounds and disinfectants. The presence of onsite sanitary systems, and floor drains associated with the Catering Facility represent pathways for such substances to potentially have been released to the environment. Based on this information, the

historical usage of the site as a Catering Facility, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.

- The site was historically used for agricultural purposes from the early 1900s through the 1950s. The historic usage of the site for agricultural purposes is likely to be associated with the application of pesticides and herbicides at the site. During the period the subject site has been used for agricultural purposes, pesticides used may have included now-banned chemicals (such as DDT), or metals based compounds (such as lead arsenate). Compounds such as these, particularly metals based compounds, tend to be immobile in the environment and remain in soil long after their application ceases. However, as documented in the 2006 Surface Soil Sampling Report and 2007 Soil Management Plan (see Section 8.2.5 and 8.2.6), concentrations of metals and pesticides in surface soils at the site were generally below current NYSDEC Unrestricted Use Soil Cleanup Objectives. As the 2006 and 2007 sampling data illustrate that pesticides and metals in surface soils do not appear to significantly exceed current NYSDEC Unrestricted Use Soil Cleanup Objectives, PWGC does not consider the historical usage of the site for agricultural purposes to be a REC.
- Multiple current and past tenants within the industrial portion of the site are identified as RCRA hazardous waste generators, dating back to at least 1987 based on database records. As such, it can be assumed that hazardous wastes have been generated and stored at the site for at least 30 years. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past (see Sections 8.2.8 and 8.2.9). Based on this information, the presence of RCRA hazardous waste generators at the site, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.
- The subject property is listed as an LTANKS and NYSPILLS site. Review of the database report identified four closed LTANKS incidents and two closed NYSPILLS incidents (see Section 6.1.2). Additionally, a 2010 Phase I ESA (see Section 8.2.8) identified two additional closed NYSPILLS incidents that were not included in the current database report (likely due to inadequate address/mapping information). Based on the information available, each of these incidents has been addressed to the satisfaction of NYSDEC. The past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria represents a HREC.

- One UST and multiple ASTs are currently present at the site. Historically, additional USTs and ASTs have been present. Tank information for the site is summarized as follows:
    - During site reconnaissance, PWGC observed 36 ASTs throughout the Industrial Area (see Section 7.2 for details). Tanks were accessible for visual inspection were double walled (Lube Cubes) or installed in secondary containment basins; tanks appeared to be in good condition, with no evidence of leakage or spillage. Based on the lack of evidence of leakage or spillage from these ASTs, PWGC does not consider their presence to be a REC. However, it should be noted that the number of ASTs observed at the site does not appear to reconcile with the SCDHS PBS registration for the site which lists 38 ASTs as being present.
    - SCDHS Records indicate that 12 USTs were previously present at the Industrial Area, and that all 12 USTs have been removed. PWGC was able to locate documentation on the removal of four of the USTs. Smithtown DOB records included a SCDHS inspection form documenting the removal of two 2,000-gallon fuel oil USTs in 2009, and NYSDEC database records for a failed tank test indicate that two 5,000-gallon fuel oil USTs failed tightness testing and were removed under SCDHS oversight with no evidence of impact identified in 1987. The 2004 Phase II ESA for the site (see Section 8.2.4) indicates that a magnetometer survey was performed around Buildings 1, 2, 7 and 8, and that the only USTs identified by the survey were two 2,000-gallon fuel oil USTs documented as being removed in 2009. The 2004 Phase II ESA also included soil sampling at known and suspected UST locations and former UST locations; soil sample analytical results were not indicative of the presence of petroleum impact that would indicate that USTs and/or former USTs had leaked. Based on the fact that there does not appear to be evidence that USTs are currently present within the Industrial Area, and a lack of evidence of a release from USTs formerly present at the site, PWGC does not consider the historical presence of USTs at the Industrial Area to be a REC.
    - During site reconnaissance, PWGC identified one UST at Catering Facility House B. According to SCDHS records this UST is a 1,000-gallon fuel oil tank, which passed a tightness test in 1994. PWGC was unable to locate records for more recent tightness testing of this tank. Based on the apparent age of this tank (20+ years), and lack of recent testing data, it is possible that the tank has leaked, releasing petroleum to the subsurface. Based on this, PWGC believes that this USTs represents a REC.
    - No evidence of USTs was identified at the Catering Facility Main Building, or House A; however, although those buildings are currently heated with natural gas, based on their apparent age (see

Section 4.3), it is possible that they were heated by fuel oil fired systems in the past. Based on this, it is possible that undocumented USTs are present at one or both of the Catering Facility Main Building or House A. As such, these buildings may have had fuel oil USTs present in the past. Additionally, as House C was not accessible for inspection, it is possible that there may have been a fuel oil fired heating system, and associated oil tank, present there as well. Out of service, unmaintained tanks represent a potential past release of a petroleum product to the environmental. Based upon this information, PWGC considers the potential presence of undocumented UST at the Catering Facility to be a REC.

- Several chemical storage areas were observed at the site during site reconnaissance. Chemicals identified included waste oil and automotive fluids, paints, stains, solvents, and landscaping and maintenance supplies. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past (see Sections 8.2.8 and 8.2.9). Based on this information, the presence of chemical storage areas at the site, in conjunction with the presence of onsite sanitary systems, floor drains, and storm drains, represents a REC.
- Multiple floor drains, sanitary systems and storm drains were identified at the site. Floor drains were identified within the kitchens at the Catering Facility, and Building 7 boiler rooms. Each active building at the site (excluding the Garage at the Catering Facility) is equipped with at least one onsite sanitary system. Multiple sanitary systems were observed at the Catering Facility Main Building (two systems, one associated with each kitchen), Building 1 (two systems), and Building 7 (five systems). Multiple storm drains and catch basins were observed throughout the paved portions of the site. Industrial area sanitary systems and storm drains were sampled in 2011 (see Section 8.2.9). At that time, multiple structures were determined to be impacted, and remediated under the oversight of SCDHS. Remediation was successful and SCDHS issued a No Further Action letter to the site (included in Appendix F). Typically, the past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria represents a HREC; however, as the industrial usage of the site, which presumably caused the impact identified in 2011, has continued, it is possible that additional discharges have occurred since remediation was completed. Additionally, the sanitary systems associated with the Catering Facility kitchens do not appear to have been evaluated in the past. Based on this information, PWGC considers the presence of floor drains, sanitary systems and storm drains at the site to be a REC.

11.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the subject property. There were no exceptions to, or deletions from, this practice except as noted in Section 12.0 of this report. PWGC evaluated the findings associated with the subject property and identified seven RECs, one HREC, and no CRECs with respect to the subject property.

Based on the identified RECs, PWGC recommends a Phase II ESA be performed at the site. The Phase II ESA should include:

- A geophysical survey to identify potential USTs and/or confirm that potential historical USTs have been removed from the Catering Facility Main Building, and House A.
- Collection and analysis of soil samples from UST and/or former UST locations identified by the geophysical survey to confirm that a petroleum release has not occurred.
- Tightness testing and/or soil borings in the vicinity of the House B UST to evaluate whether leakage has occurred.
- Characterization sampling of the Catering Facility Main Building sanitary systems.
- Characterization sampling of the Industrial Area sanitary systems and storm drains.

It should be noted that, as future plans for the site include construction of a sewage treatment plant (STP), SCDHS will require that the existing onsite sanitary systems be properly closed and buildings be connected to the STP once construction is complete. As part of closure, SCDHS will require that the sanitary systems be sampled. As the industrial area sanitary systems have been previously sampled and remediated, PWGC discussed with SCDHS whether they would consent to delaying additional sampling of those systems until the STP is completed and the systems are ready to be closed. In an email dated June 27, 2017 (included in Appendix F), SCDHS indicated that the sanitary systems and storm drains should be included as part of a Phase II ESA based on the findings of this Phase I ESA, and that only structures determined to be impacted by the Phase II ESA may require re-sampling prior to abandonment when the STP is completed.

Previous environmental investigations at the site have identified low level metals in soils throughout former agricultural areas. Based on these findings, SCDHS required that a Soil Management Plan (see Section 8.2.6) be prepared to specify engineering controls and monitoring requirements for these soils during redevelopment of the site. As detailed in Section 8.2.6, the metals concentrations detected prior to development of the Soil Management Plan are generally below NYSDEC Unrestricted Use Soil Cleanup Objectives. Additionally, as

discussed in Section 8.2.5 and 8.2.6, the SCDHS guidance document that the Soil Management Plan was based on was never formally adopted by SCDHS. In an email dated June 29, 2017 (included in Appendix F), SCDHS indicated that they no longer regulate soil management as part of subdivision approval, and that responsibility falls on local townships within Suffolk County. Based on this, it appears that the Soil Management Plan prepared in 2007 for SCDHS is no longer required.

Although ASTs at the site appear to be in good condition with no evidence of leakage, the total number of ASTs observed does not appear to reconcile with the number of ASTs included on the SCDHS PBS registration. PWGC does not consider this to be a REC; however, PWGC recommends that an updated PBS registration be submitted to SCDHS so that their records can be properly updated.

Although not a part of the ASTM E1527-13 scope, the following additional site concerns must be considered:

- Based on the apparent age of the buildings at the site, it is possible that ACM and/or lead-based paint are present within the structures. PWGC recommends that, prior to demolition or renovation of the buildings, a proper asbestos and/or lead survey be performed, and identified ACM and/or lead based paint be properly abated.

12.0 DEVIATIONS

This Phase I ESA was conducted in accordance with the scope and limitations of the ASTM Standard E 1527-13 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process) and 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule). Excluding data gaps identified in Section 2.8 and additional services outlined in Section 9.0, there were no deviations or deletions from this practice.

13.0 REFERENCES

All Appropriate Inquiries, Final Rule, 40 CFR Part 312.

Standard practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Standard E 1527-13.

Phase I Environmental Site Assessment - Flowerfield Industrial Park, Lockwood, Kessler & Bartlett, Inc., September 1993.

Review of Environmentally Sensitive Land - Flowerfield Celebrations, Inc., Freuenthal & Elkowitz Consulting Group, Inc., October 1997.

Executive Summary of Phase I Environmental Site Assessment – Gyrodyne Property-Flowerfield Industrial Park, KTR Newmark Consultants, LLC, circa 2003.

Phase II Environmental Site Assessment – Gyrodyne Property-Flowerfield Industrial Park, Jade Environmental, Inc., May 2004.

Surface Soil Sampling Report – Gyrodyne Property, P.W. Grosser Consulting, Inc., October 2006.

Soil Management Plan – Gyrodyne Property, P.W. Grosser Consulting, Inc., May 2007.

Industrial Area Sampling Report – Gyrodyne Property, P.W. Grosser Consulting, Inc., June 2008.

Phase I Environmental Site Assessment – Flowerfield Industrial Park, Nova Consulting, May 2010.

Underground Injection Control Structure Remediation Report – Gyrodyne Property, P.W. Grosser Consulting, Inc., August 2011.

Executive Summary of Phase I Environmental Site Assessment – Commercial Property-199 Mills Pond Road, Laurel Environmental Associates, Ltd., March 2013.

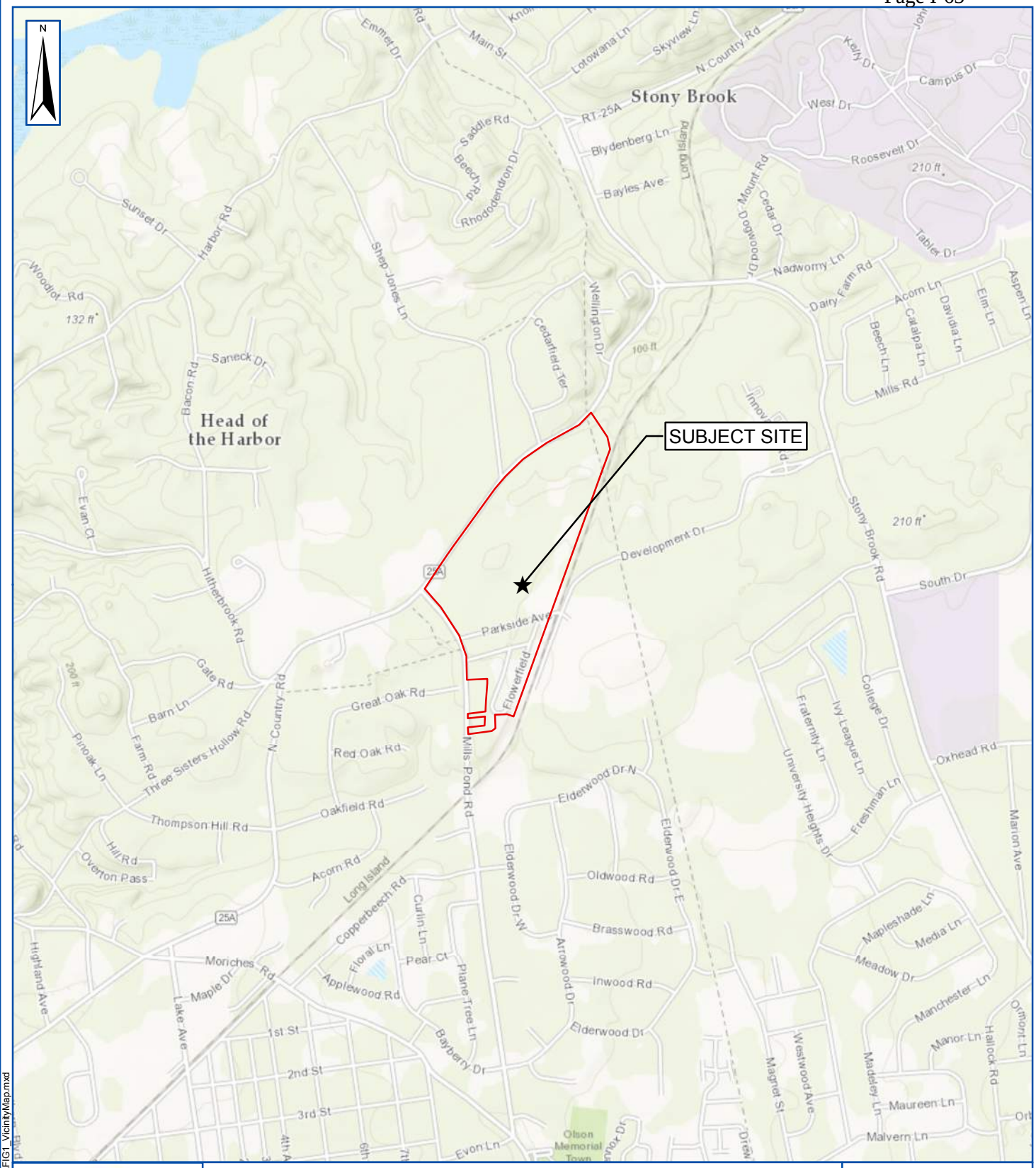
14.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Thomas Melia
Sr. Project Manager

Report Completion Date: June 8, 2017

FIGURES



PWGC
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E-mail: INFO@PWGROSSER.COM

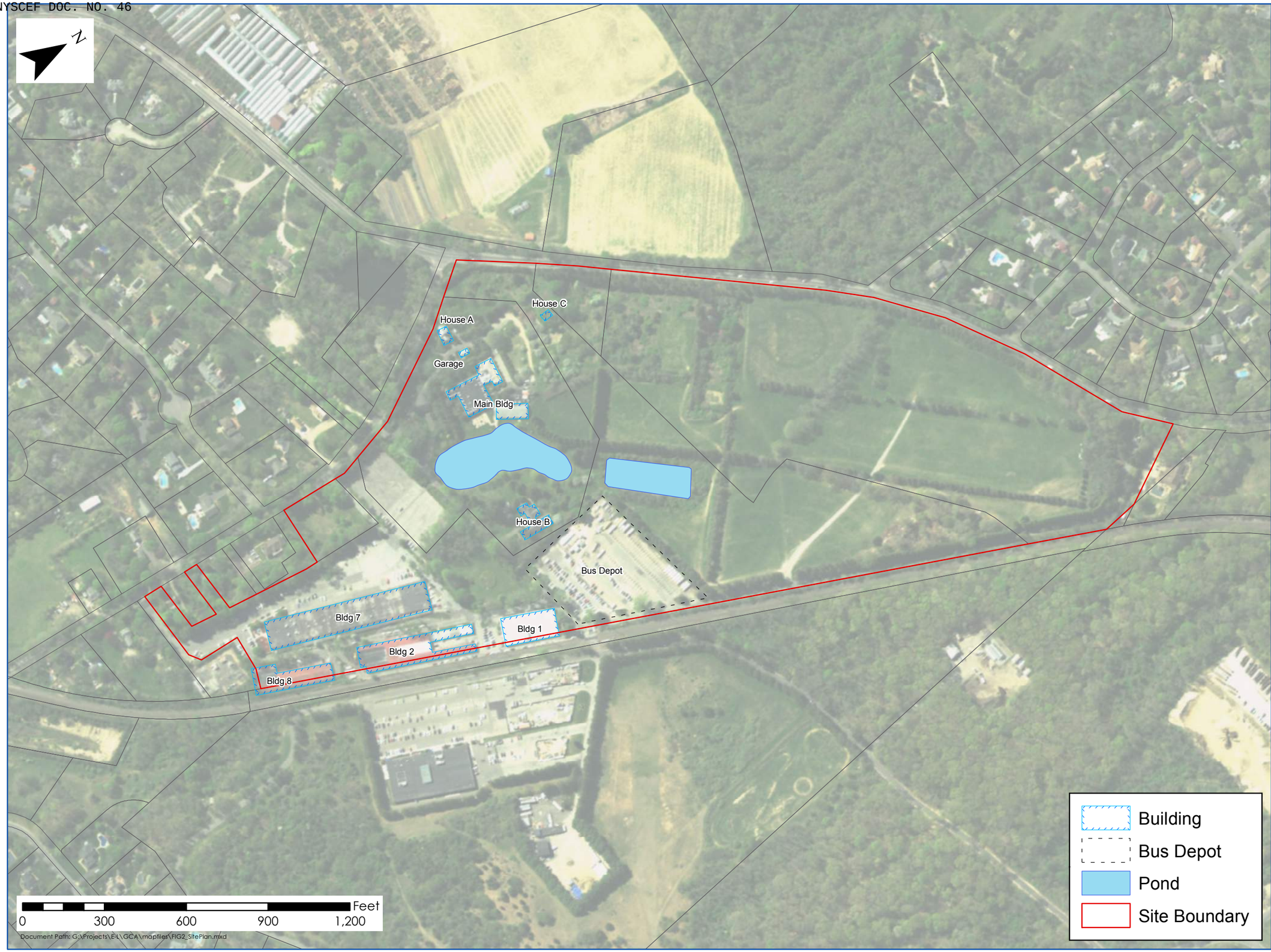
Document Path: G:\Projects\E-L\GCA\mapfiles\FIG1_VicinityMap.mxd

SUBJECT SITE VICINITY

FLOWERFIELD INDUSTRIAL PARK
ST JAMES, NY

0 ¼ ½ ¾ 1 Miles

Project:	GCA1701
Date:	8/17/2017
Designed by:	TM
Drawn by:	JCG
Approved by:	TM
Figure No:	1



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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	GCA1701	Designed by:	TM
Date:	8/18/2017	Drawn by:	JCG
Scale:	AS SHOWN	Approved by:	TM

SITE PLAN

FLOWERFIELD INDUSTRIAL
ST JAMES, NY

FIGURE NO:
2

APPENDIX A
SITE PHOTOGRAPHS

Industrial Area


Building 7

Building 8

Bus Depot

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil ASTs (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

280-Gallon Fuel Oil AST (typ.)

275-Gallon AST (typ.)

275-Gallon AST (typ.)

275-Gallon AST (typ.)

275-Gallon ASTs (typ.)

275-Gallon AST (typ.)

Fill/Vent for AST

Fill/Vent for AST

Fill/Vent for AST

Fill/Vent for AST

Fill/Vent for AST

Fill/Vent for AST

6,000-Gallon Diesel AST

Building & Gas Meter

Building 7 Gas Fired Heaters

Building 7 Gas Fired Heaters

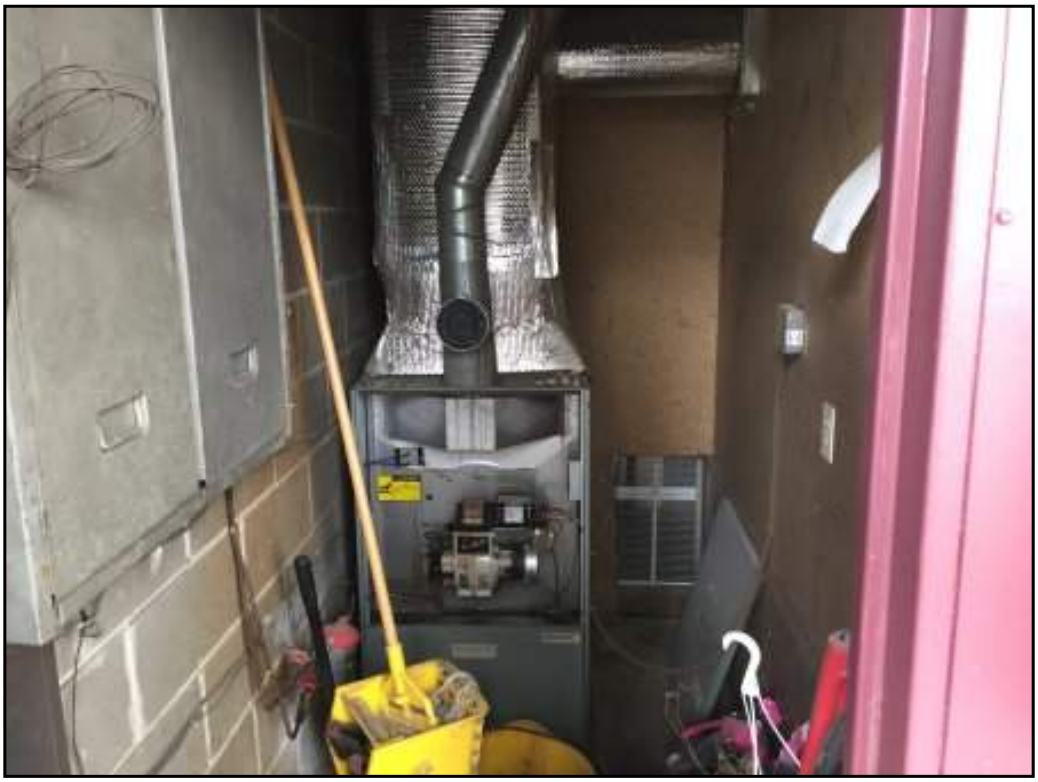
Building 7 Boiler Room Floor Drain

Building 7 Boiler Room Floor Drain

Single Unit Oil Fired Heating System (typ.)

Single Unit Oil Fired Heating System (typ.)

Single Unit Oil Fired Heating System (typ.)



Single Unit Oil Fired Heating System (typ.)

Single Unit Oil Fired Heating System (typ.)

Building 1 Oil Fired Heater

Single Unit Oil Fired Heating System (typ.)

Woodworking Shop (Bldg 2)

Chemical Storage Area (Bldg 2)

Bur Repair Facility (Bldg 2)

Bur Repair Facility (Bldg 2) Waste Oil Drums

Bus Repair Facility (Bldg 8)

Electrical Transformer

Electrical Transformer

Electrical Transformers

Catering Facility

Catering Facility

Garage

House A

House A Boiler Room

House A Gas Meter

House A Sanitary System

Garage Interior

Catering Facility Gas Meter

Catering Facility Sanitary System

Catering Facility Sanitary System

Catering Facility Sanitary System

Catering Facility Kitchen

Catering Facility Kitchen

Drums of Used Cooking Oil

Pump House

House B Fuel Oil UST

House B Oil Fired Heating System (Basement)

House B Oil Fired Heating System (Basement)

House B Oil Fired Heating System (Garage)

Pond

Pond

Fairgrounds

Fairgrounds

Fairgrounds

Fairgrounds

Fairgrounds

House C

APPENDIX B
SANBORN MAPS

Gyrodyne Property
1 Flowerfield
Saint James, NY 11780

Inquiry Number: 4913802.3
April 20, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/20/17

Site Name:

Gyrodyne Property
1 Flowerfield
Saint James, NY 11780
EDR Inquiry # 4913802.3

Client Name:

P.W. Grosser Consulting
630 Johnson Ave
Bohemia, NY 11550
Contact: Thomas Melia

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by P.W. Grosser Consulting were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 33C0-4C8D-BAE4

PO # NA

Project GCA1701

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 33C0-4C8D-BAE4

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

P.W. Grosser Consulting (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

APPENDIX C
TOPOGRAPHIC MAPS

Gyrodyne Property
1 Flowerfield
Saint James, NY 11780

Inquiry Number: 4913802.4
April 20, 2017

EDR Historical Topo Map Report
with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

Site Name:

Gyrodyne Property
1 Flowerfield
Saint James, NY 11780
EDR Inquiry # 4913802.4

Client Name:

P.W. Grosser Consulting
630 Johnson Ave
Bohemia, NY 11550
Contact: Thomas Melia

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by P.W. Grosser Consulting were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: GCA1701

Coordinates:

Latitude:	40.897644 40° 53' 52" North
Longitude:	-73.144044 -73° 8' 39" West
UTM Zone:	Zone 18 North
UTM X Meters:	656333.92
UTM Y Meters:	4529052.73
Elevation:	160.00' above sea level

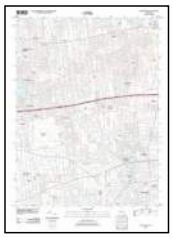
Maps Provided:

2013
1979
1967
1956
1955, 1956
1947
1942
1919
1904
1902

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



Patchogue
2013
7.5-minute, 24000

Port Jefferson
2013
7.5-minute, 24000

Saint James
2013
7.5-minute, 24000

Central Islip
2013
7.5-minute, 24000

1979 Source Sheets

Central Islip
1979
7.5-minute, 24000
Aerial Photo Revised 1977

Saint James
1979
7.5-minute, 24000
Aerial Photo Revised 1977

1967 Source Sheets

Saint James
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Patchogue
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Central Islip
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Port Jefferson
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1956 Source Sheets

Setauket
1956
15-minute, 62500
Aerial Photo Revised 1954

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1955, 1956 Source Sheets

Saint James
1955
7.5-minute, 24000
Aerial Photo Revised 1954

Port Jefferson
1955
7.5-minute, 24000
Aerial Photo Revised 1954

Central Islip
1956
7.5-minute, 24000
Aerial Photo Revised 1954

Patchogue
1956
7.5-minute, 24000
Aerial Photo Revised 1954

1947 Source Sheets

Central Islip
1947
7.5-minute, 24000

St James
1947
7.5-minute, 24000

Port Jefferson
1947
7.5-minute, 24000
Aerial Photo Revised 1942

Patchogue
1947
7.5-minute, 24000
Aerial Photo Revised 1947

1942 Source Sheets

Islip
1942
30-minute, 125000

1919 Source Sheets

Setauket
1919
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

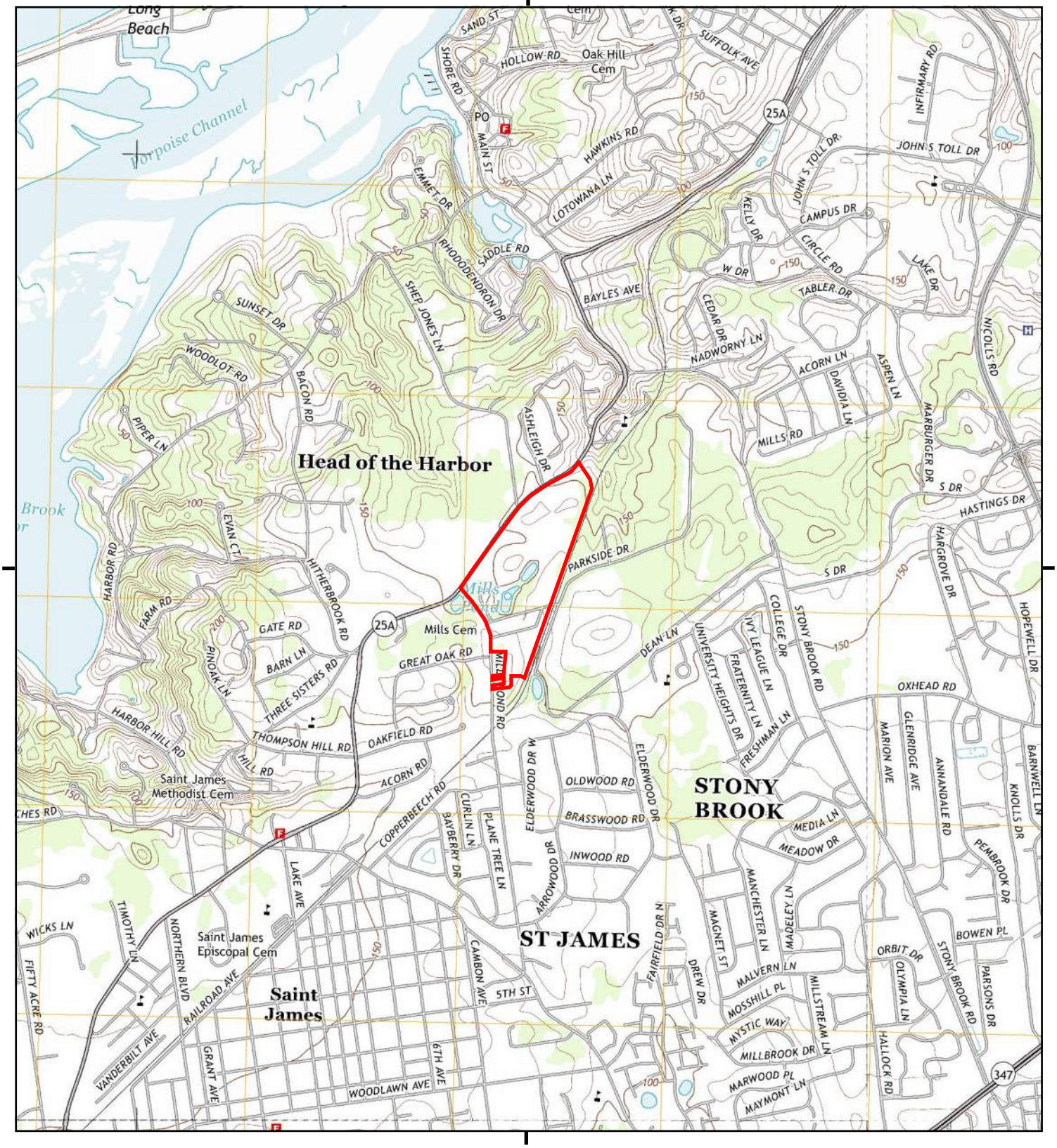
1904 Source Sheets

Setauket
1904
15-minute, 62500

1902 Source Sheets

Setauket
1902
15-minute, 62500

Historical Topo Map



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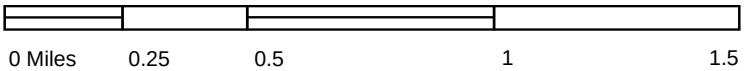
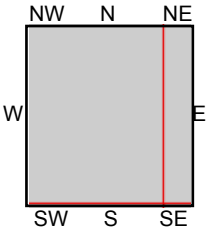


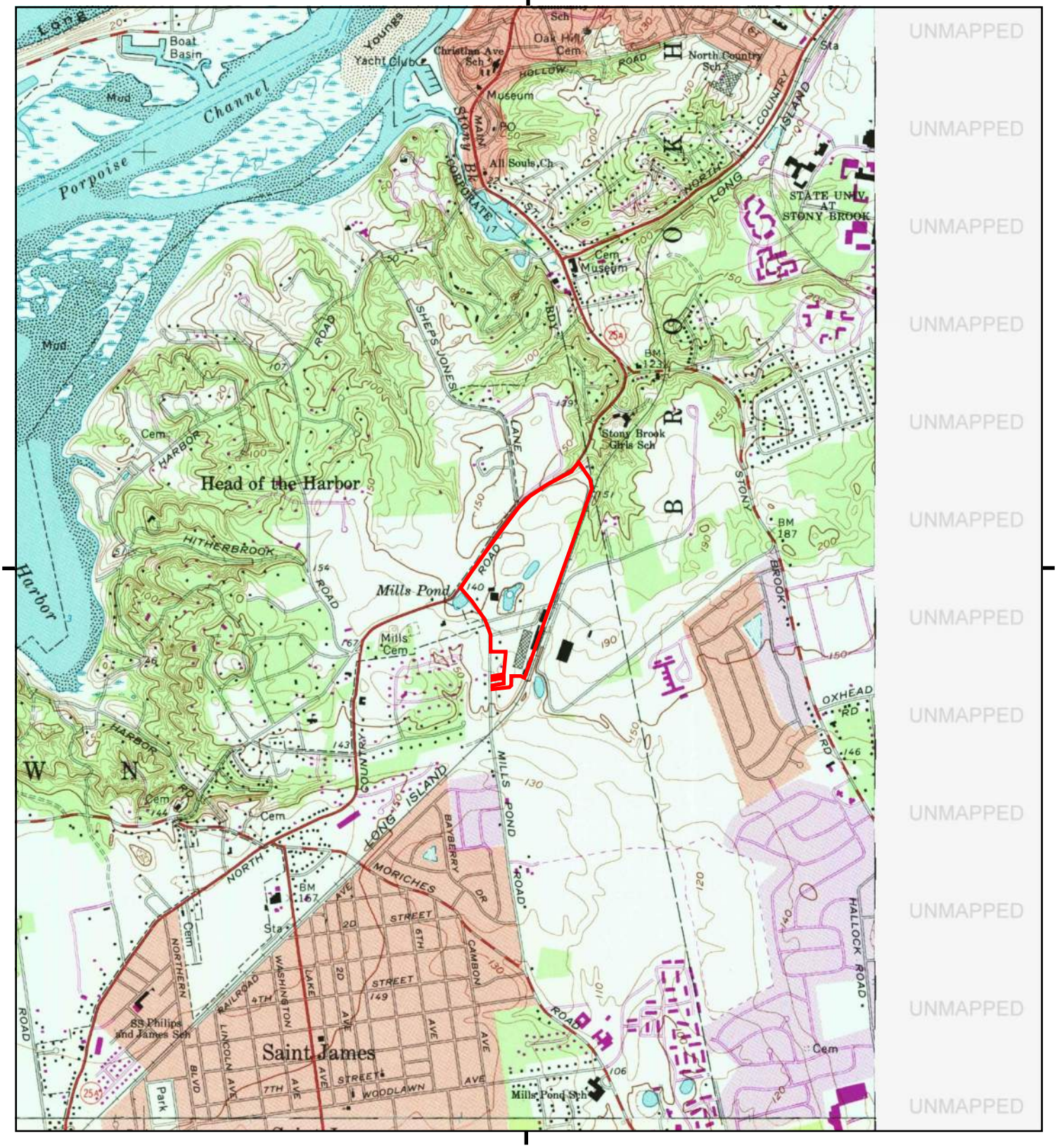


TP, Saint James, 2013, 7.5-minute
NE, Port Jefferson, 2013, 7.5-minute
SE, Patchogue, 2013, 7.5-minute
S, Central Islip, 2013, 7.5-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

Historical Topo Map

1979



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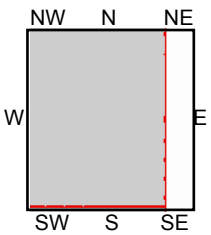
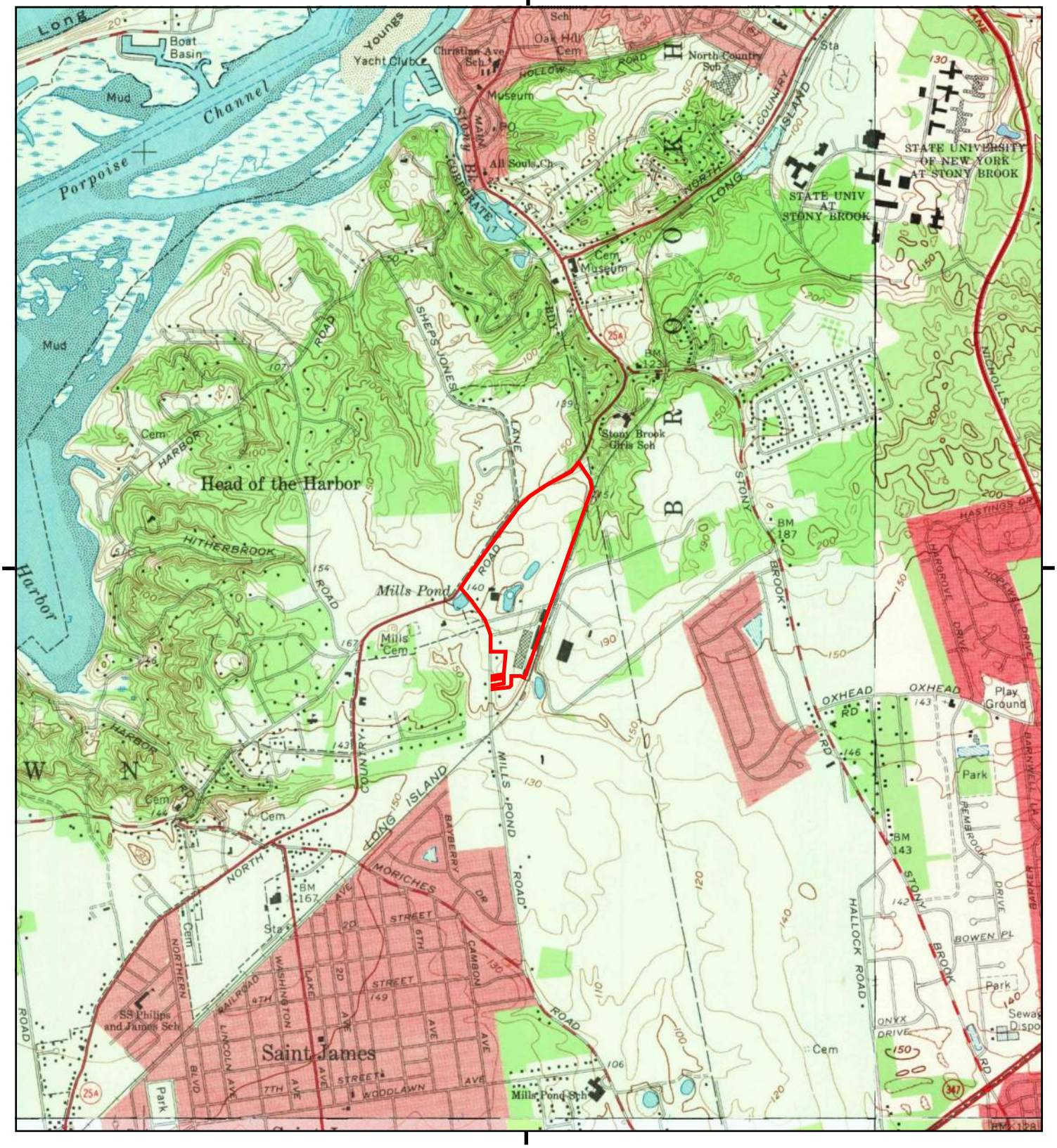


TP, Saint James, 1979, 7.5-minute
S, Central Islip, 1979, 7.5-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

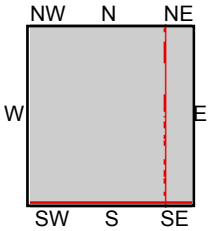
N

Historical Topo Map



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



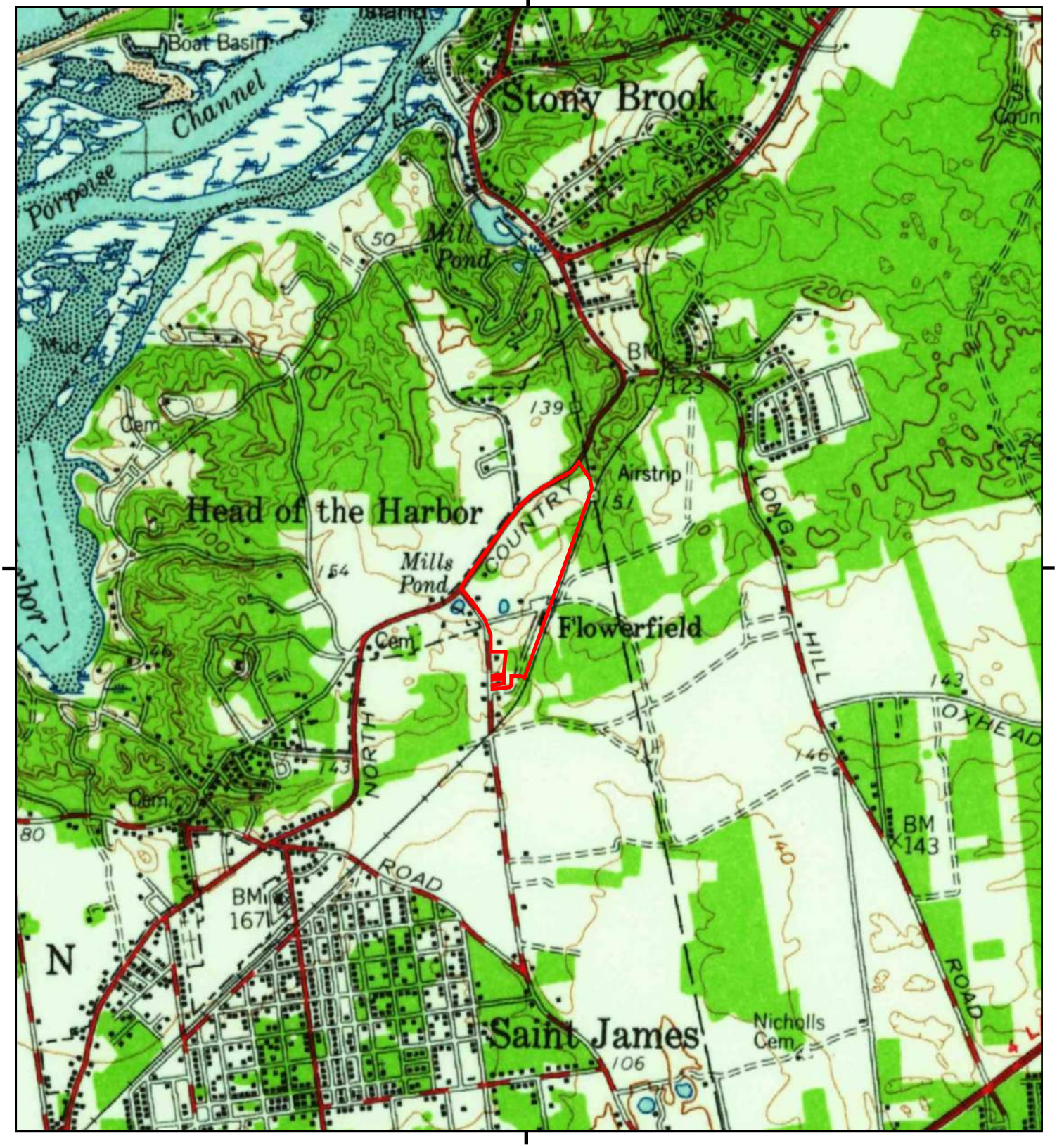
TP, Saint James, 1967, 7.5-minute
NE, Port Jefferson, 1967, 7.5-minute
SE, Patchogue, 1967, 7.5-minute
S, Central Islip, 1967, 7.5-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

Historical Topo Map

1956



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

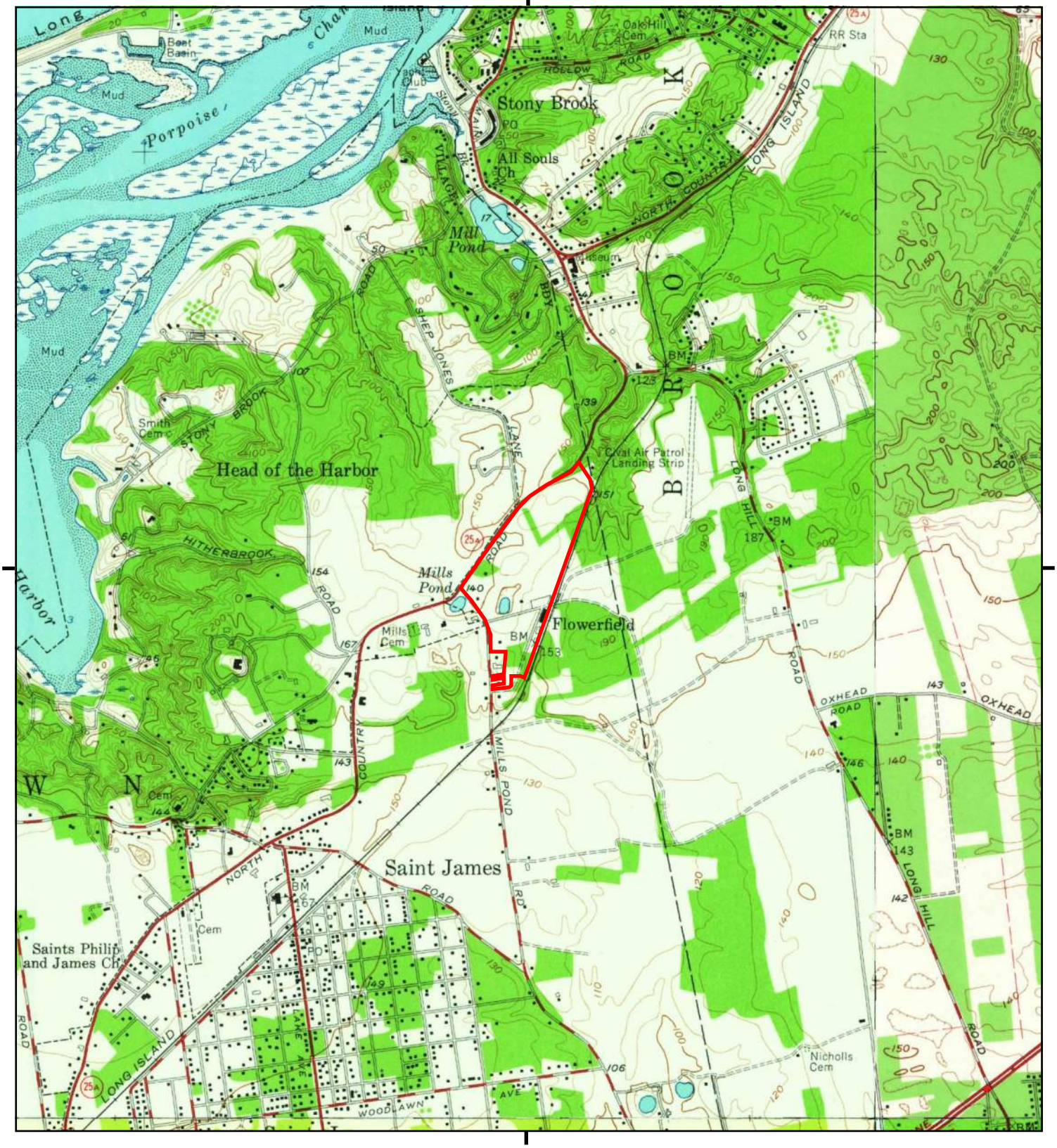
TP, Setauket, 1956, 15-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

Historical Topo Map

1955, 1956



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

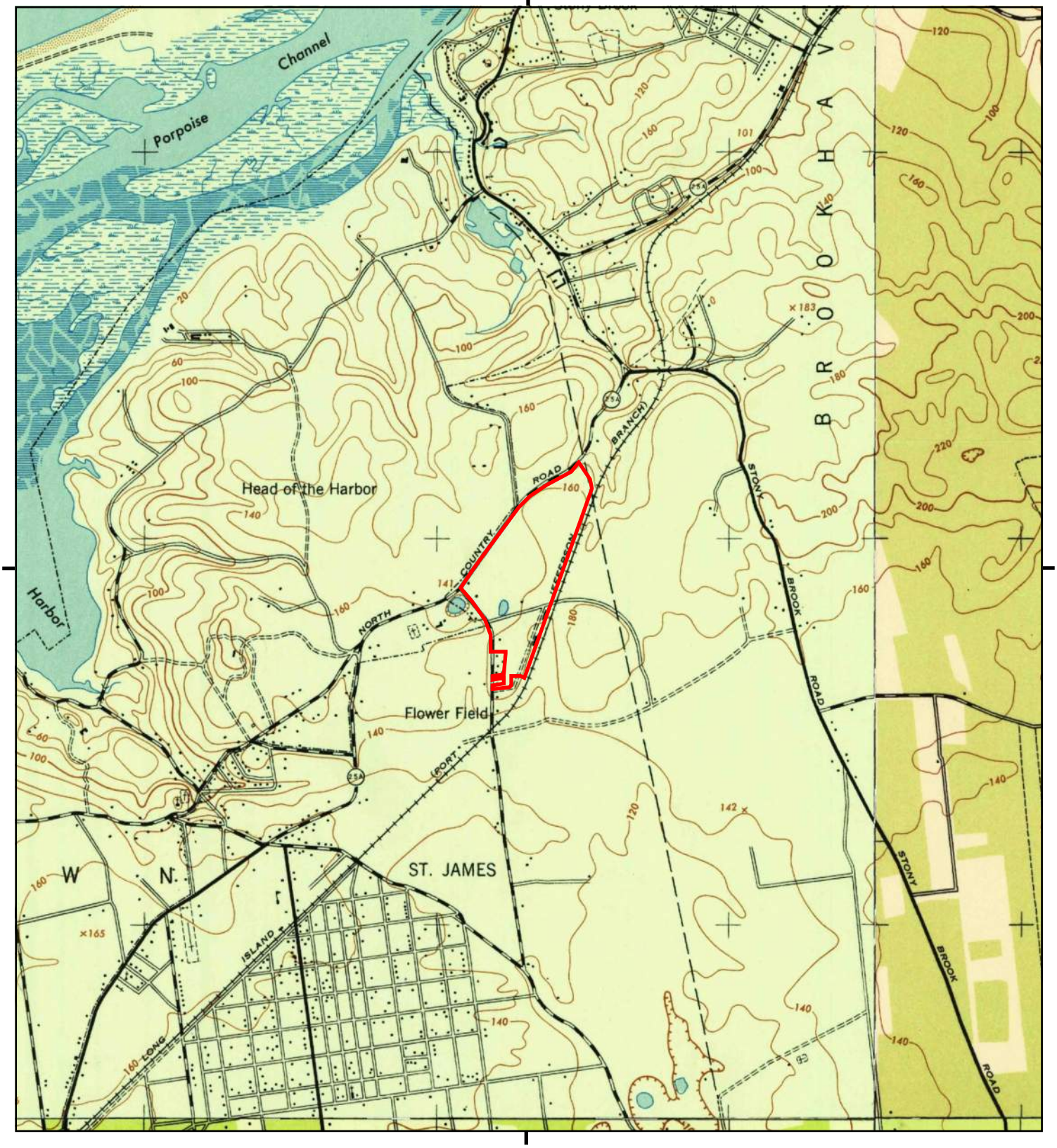
TP, Saint James, 1955, 7.5-minute
NE, Port Jefferson, 1955, 7.5-minute
SE, Patchogue, 1956, 7.5-minute
S, Central Islip, 1956, 7.5-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

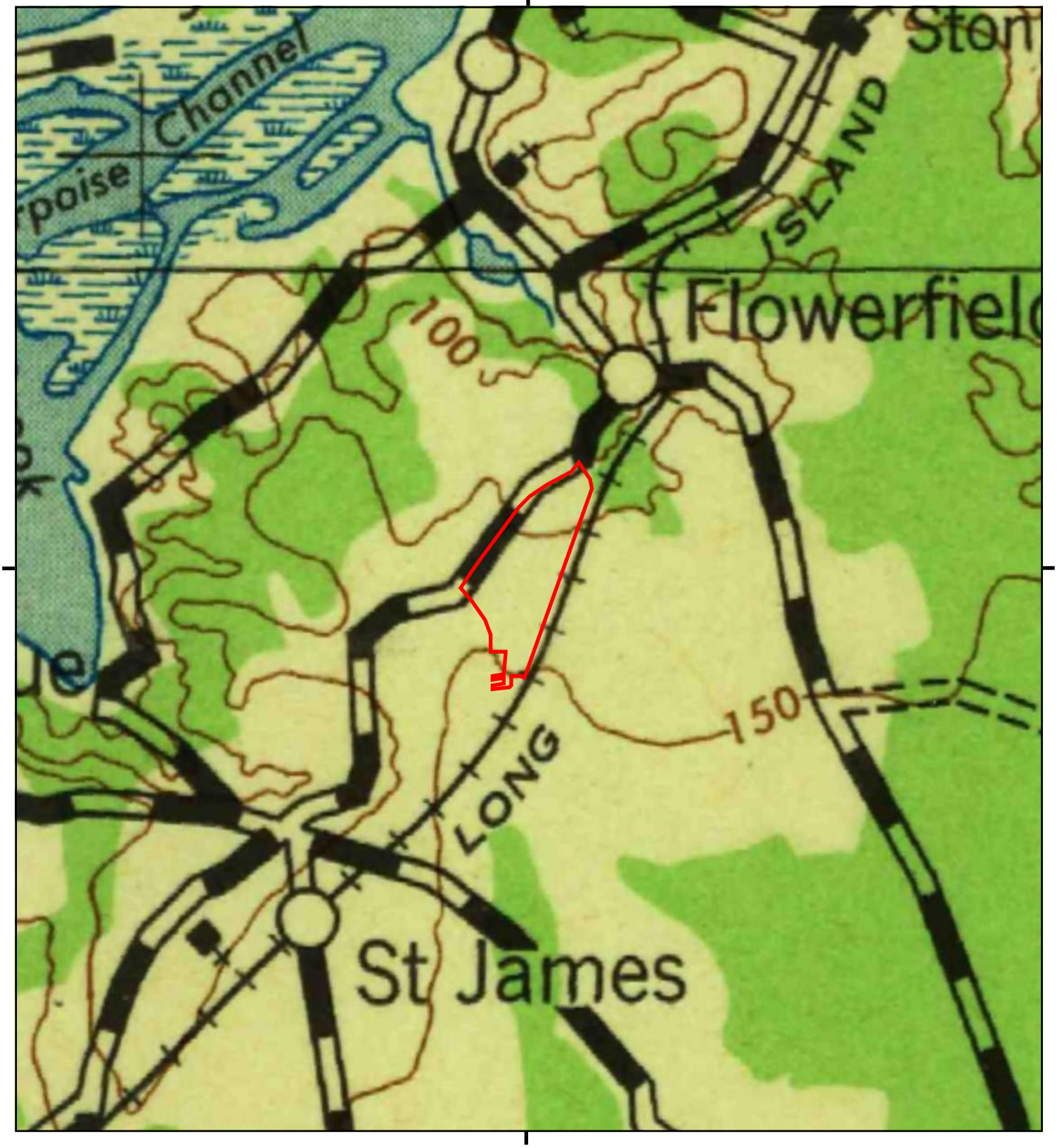
TP, St James, 1947, 7.5-minute
NE, Port Jefferson, 1947, 7.5-minute
SE, Patchogue, 1947, 7.5-minute
S, Central Islip, 1947, 7.5-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

Historical Topo Map

1942



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

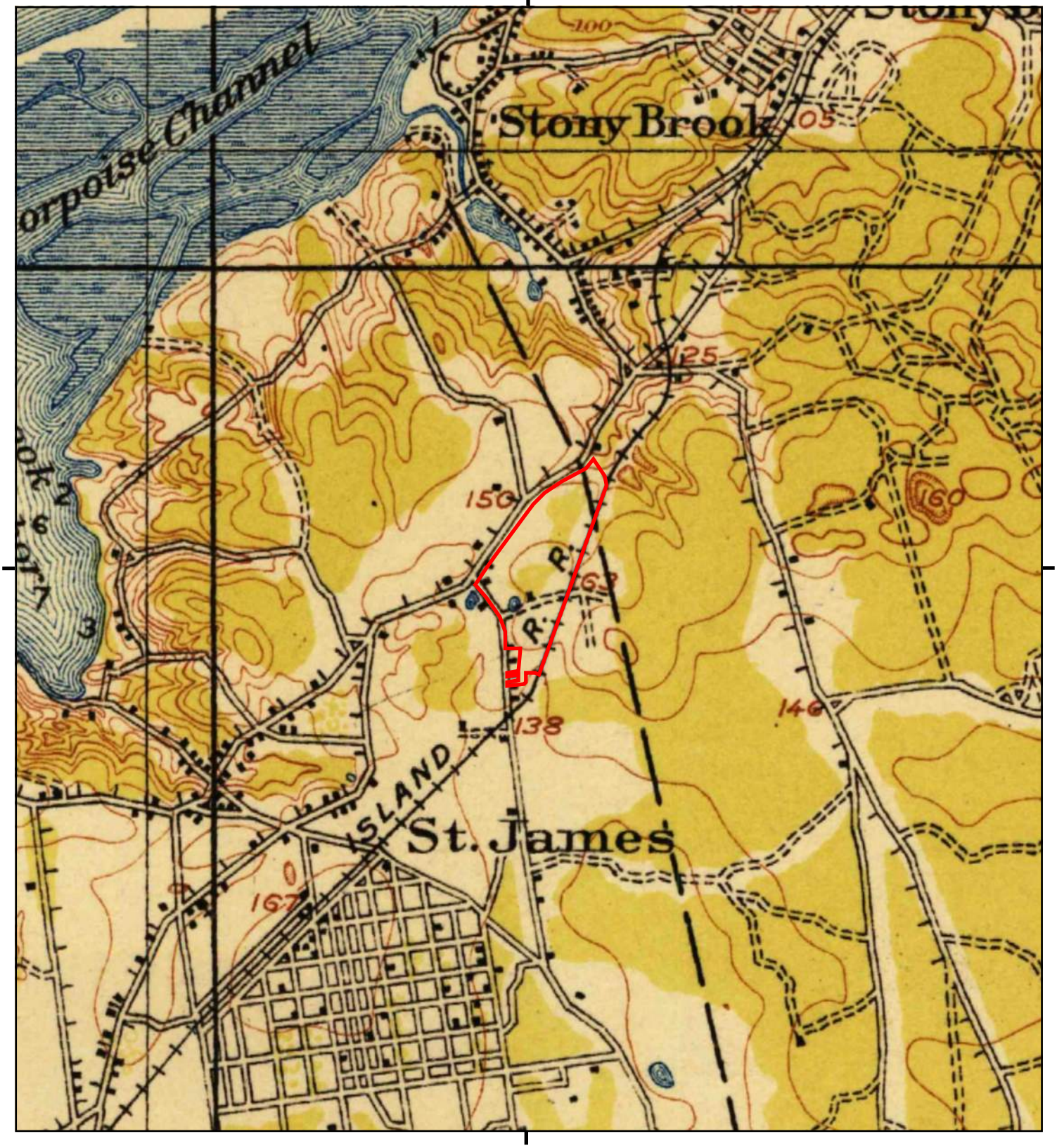
TP, Islip, 1942, 30-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

Historical Topo Map

1919



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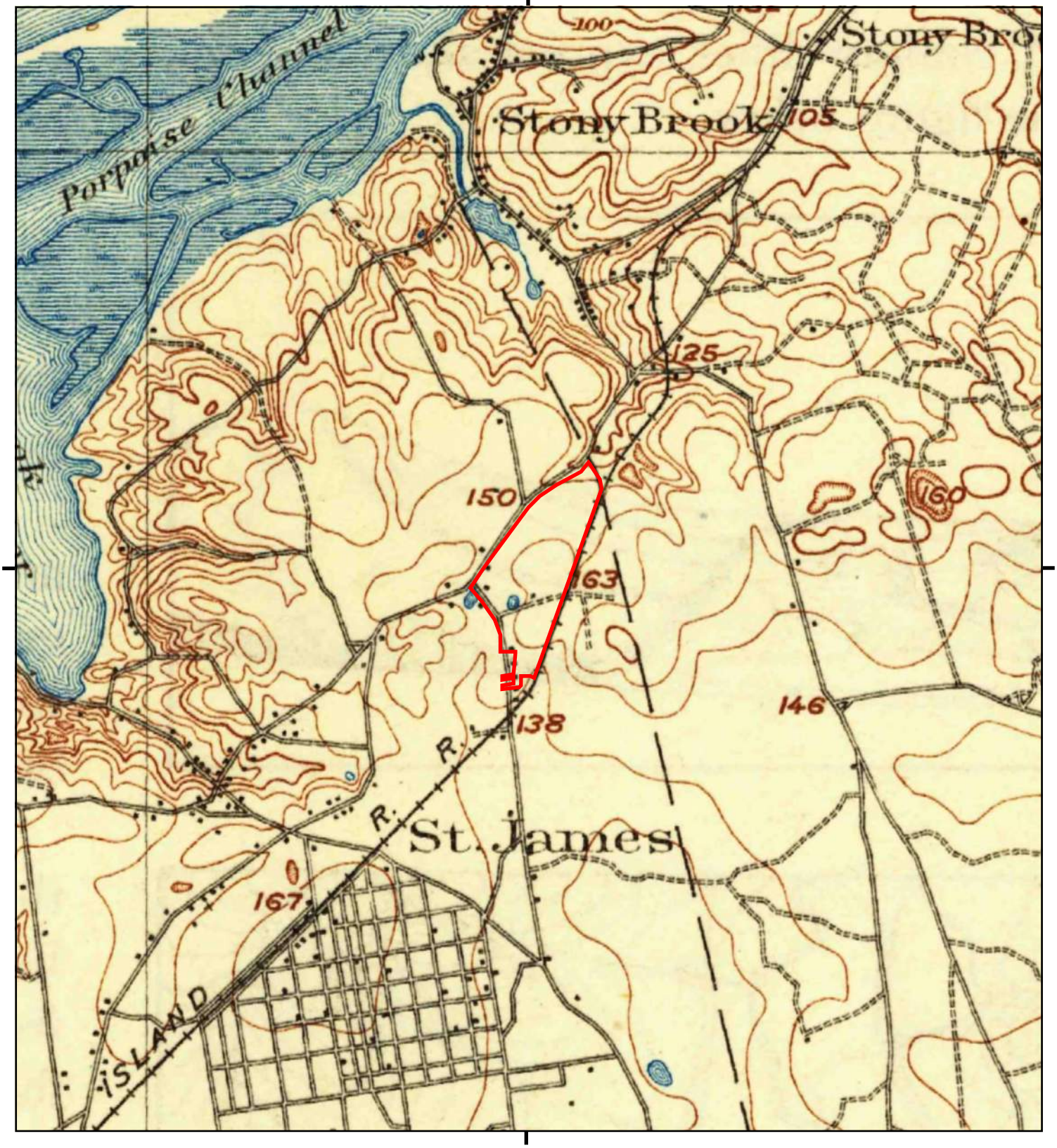
NW N NE
W E
SW S SE

TP, Setauket, 1919, 15-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

Historical Topo Map



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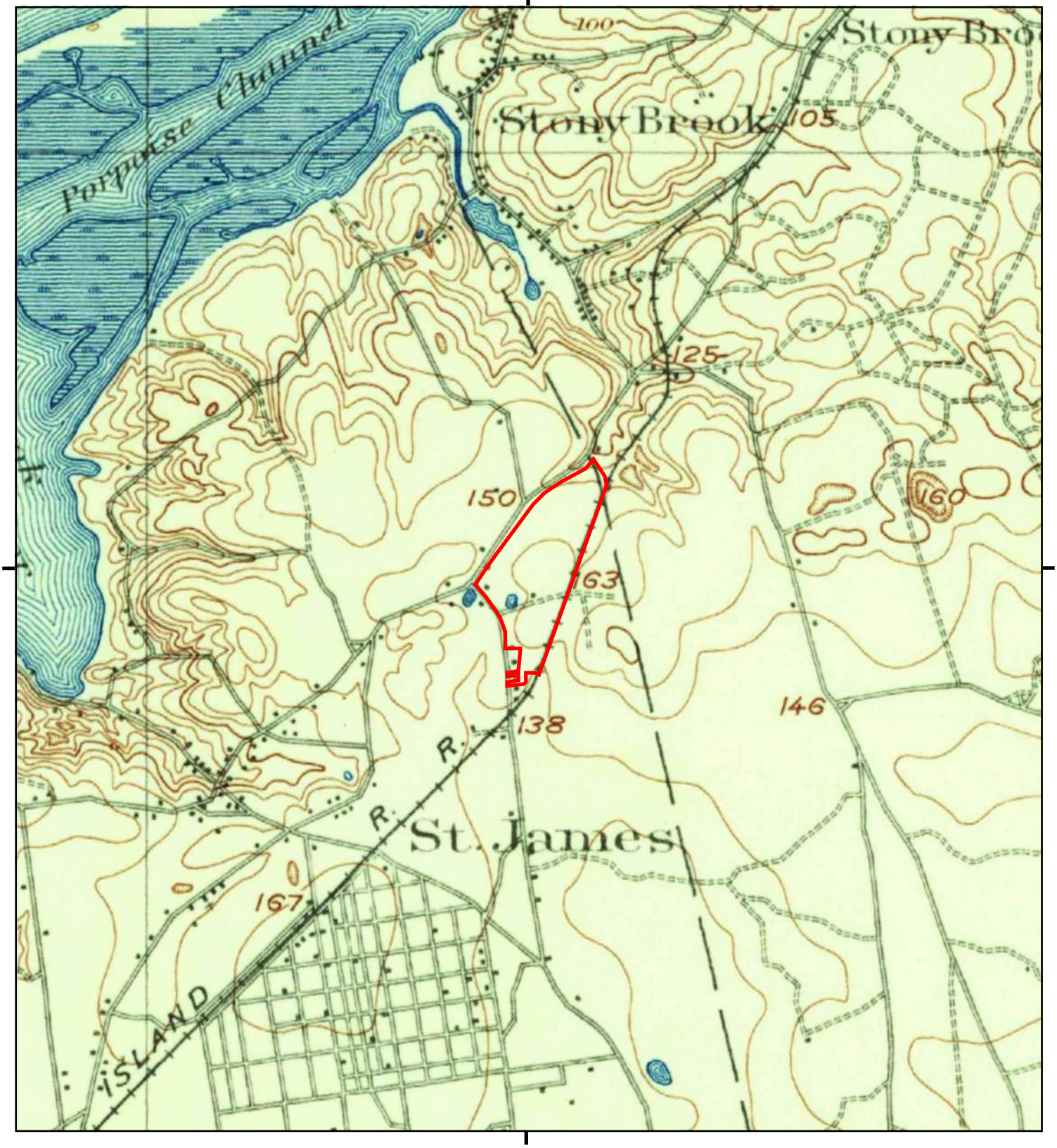
NW N NE
W E
SW S SE

TP, Setauket, 1904, 15-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

Historical Topo Map



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Setauket, 1902, 15-minute

SITE NAME: Gyrodyne Property
ADDRESS: 1 Flowerfield
Saint James, NY 11780
CLIENT: P.W. Grosser Consulting

N

APPENDIX D
AERIAL PHOTOS

Gyrodyne Property
1 Flowerfield
Saint James, NY 11780

Inquiry Number: 4913802.9
April 20, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Site Name:

Gyrodyne Property
1 Flowerfield
Saint James, NY 11780
EDR Inquiry # 4913802.9

Client Name:

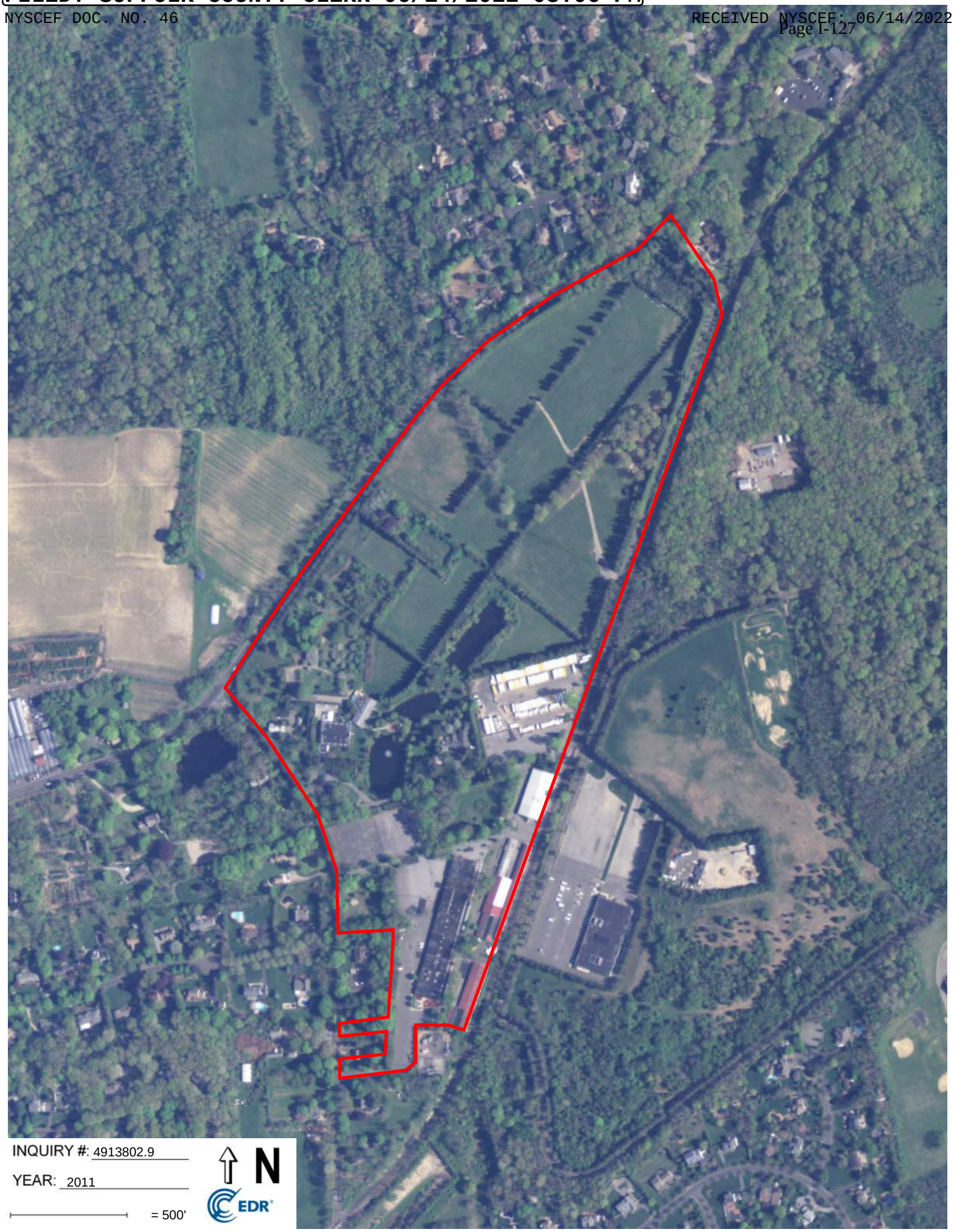
P.W. Grosser Consulting
630 Johnson Ave
Bohemia, NY 11550
Contact: Thomas Melia

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: April 08, 1994	USGS/DOQQ
1985	1"=500'	Flight Date: March 25, 1985	USGS
1980	1"=500'	Flight Date: September 08, 1980	USDA
1970	1"=500'	Flight Date: May 30, 1970	USDA
1966	1"=500'	Flight Date: March 29, 1966	USGS
1962	1"=500'	Flight Date: March 16, 1962	EDR Proprietary Aerial Viewpoint
1957	1"=500'	Flight Date: March 25, 1957	Jack
1954	1"=500'	Flight Date: March 22, 1954	USGS
1947	1"=500'	Flight Date: September 23, 1947	USDA
1938	1"=500'	Flight Date: August 03, 1938	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.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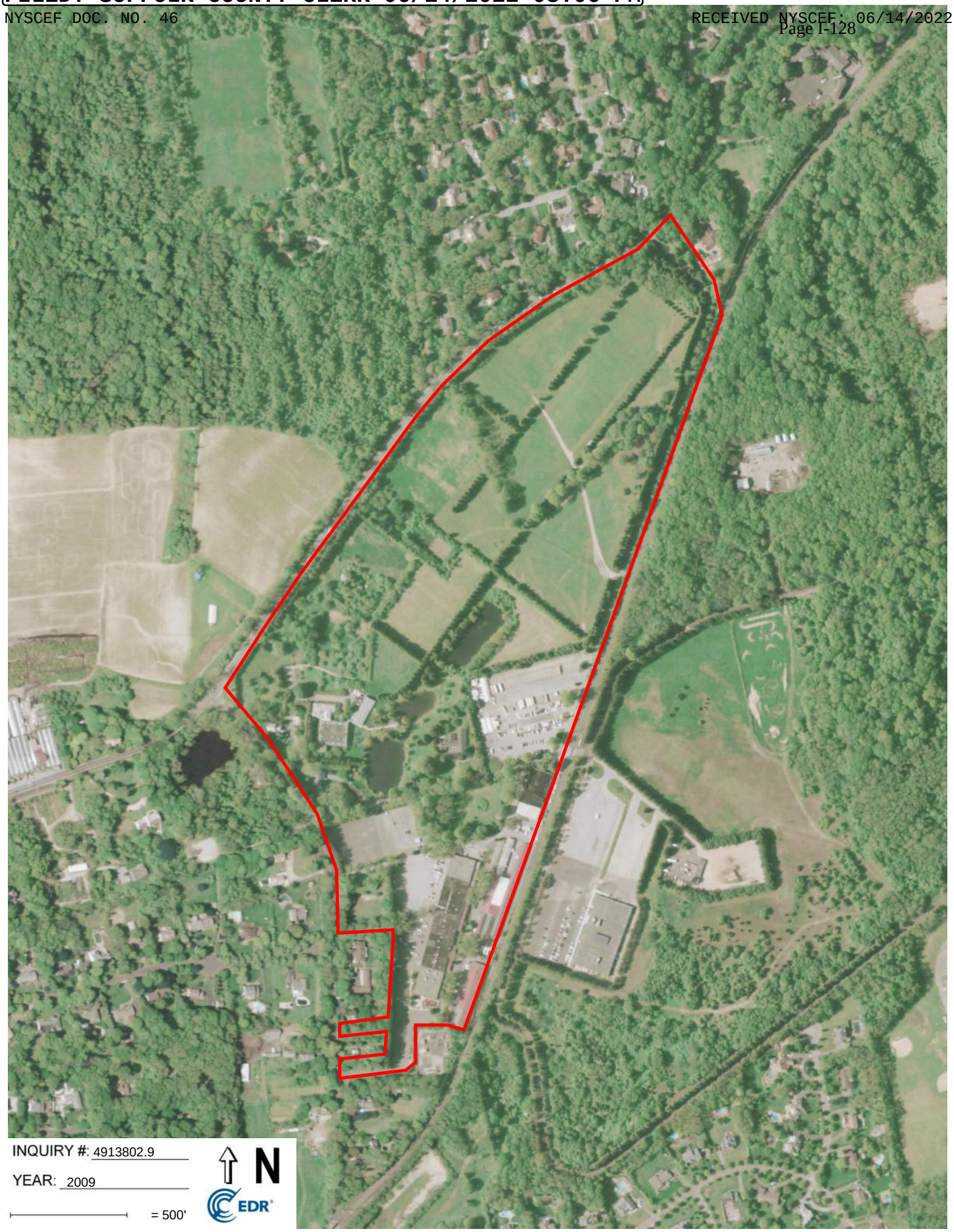
YEAR: 2011
= 500'
N
EDR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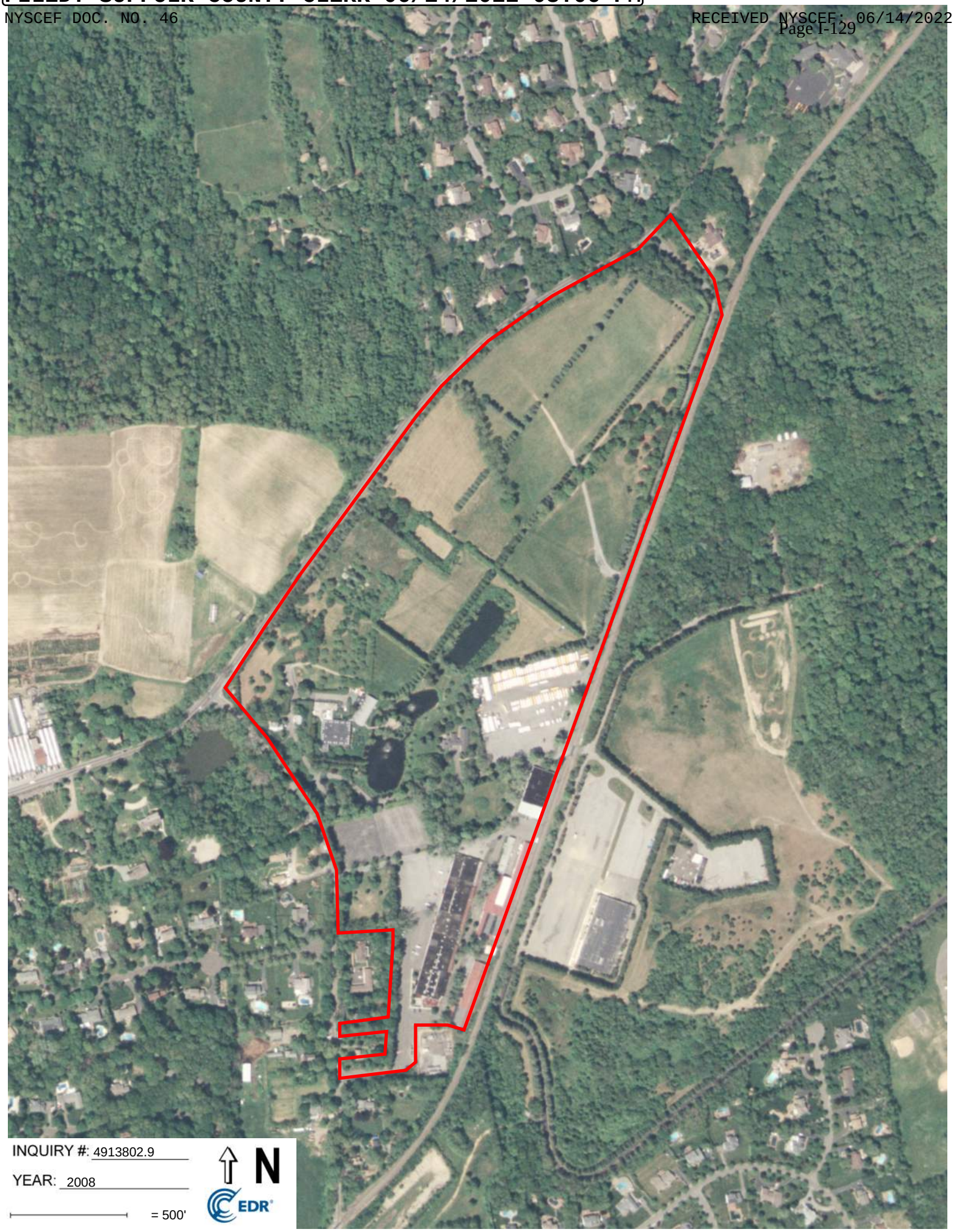
EDR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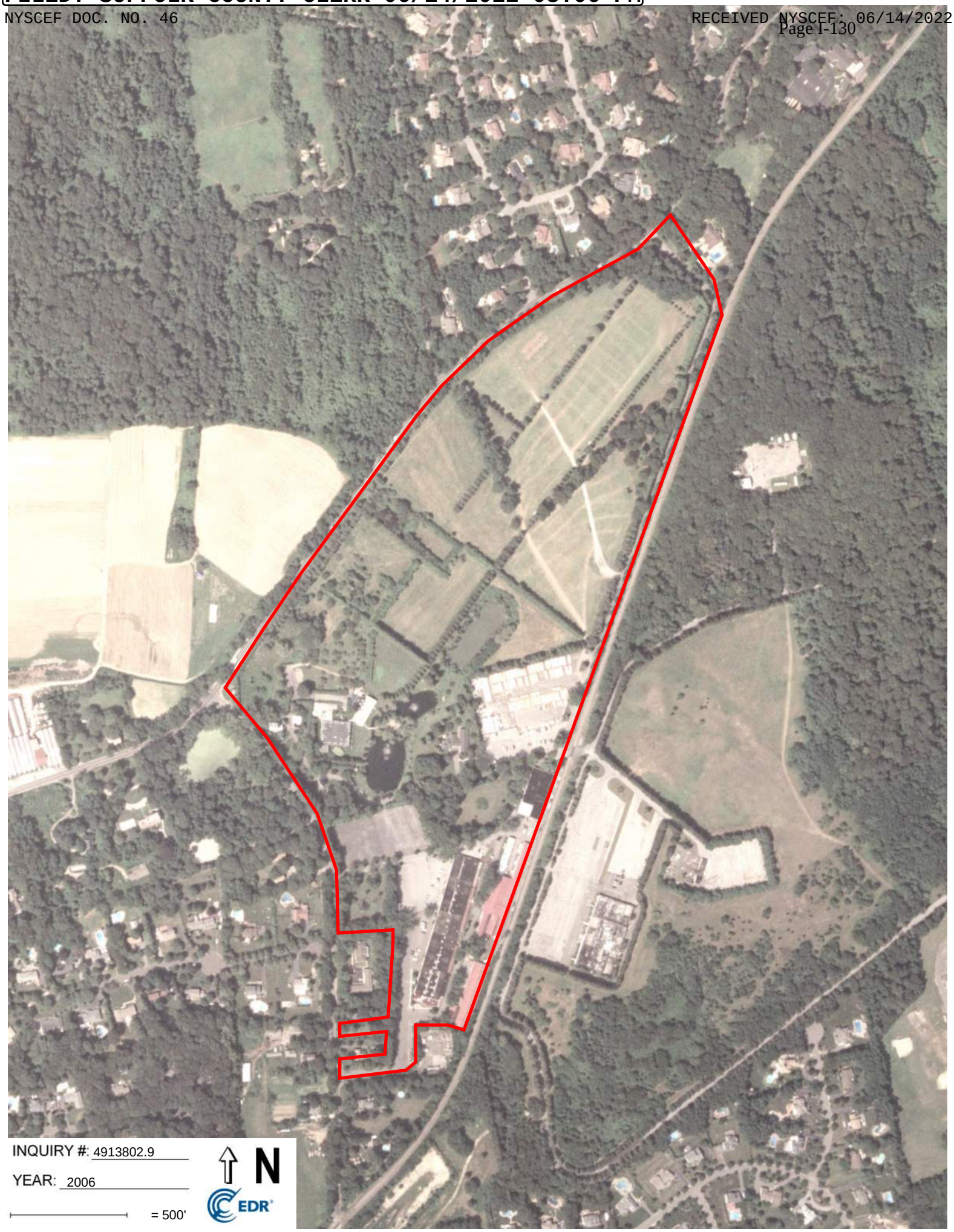
EDR


INQUIRY #: 4913802.9
YEAR: 2006
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EDR


INQUIRY #: 4913802.9
YEAR: 1994
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EDR


INQUIRY #: 4913802.9
YEAR: 1985
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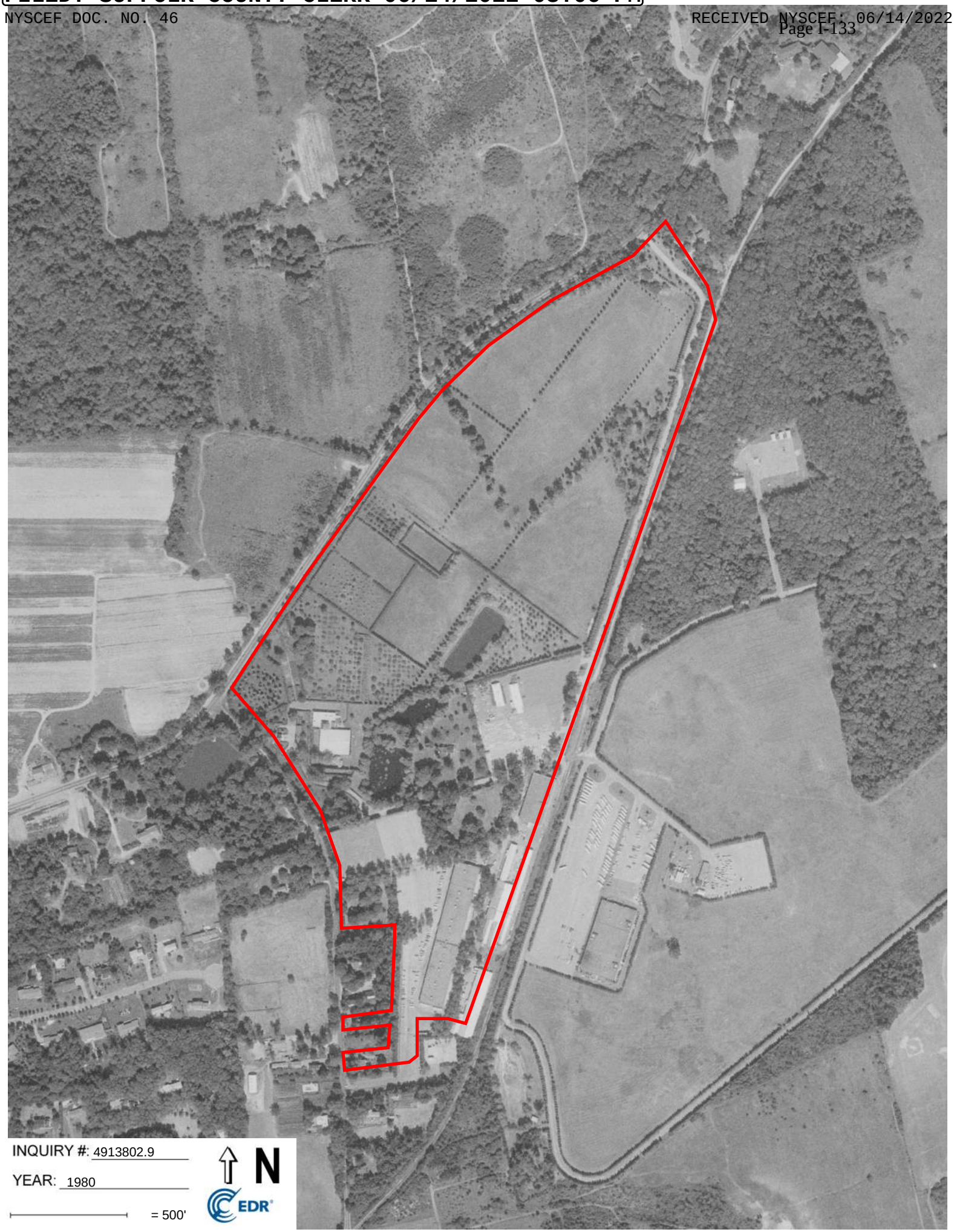
N
EDR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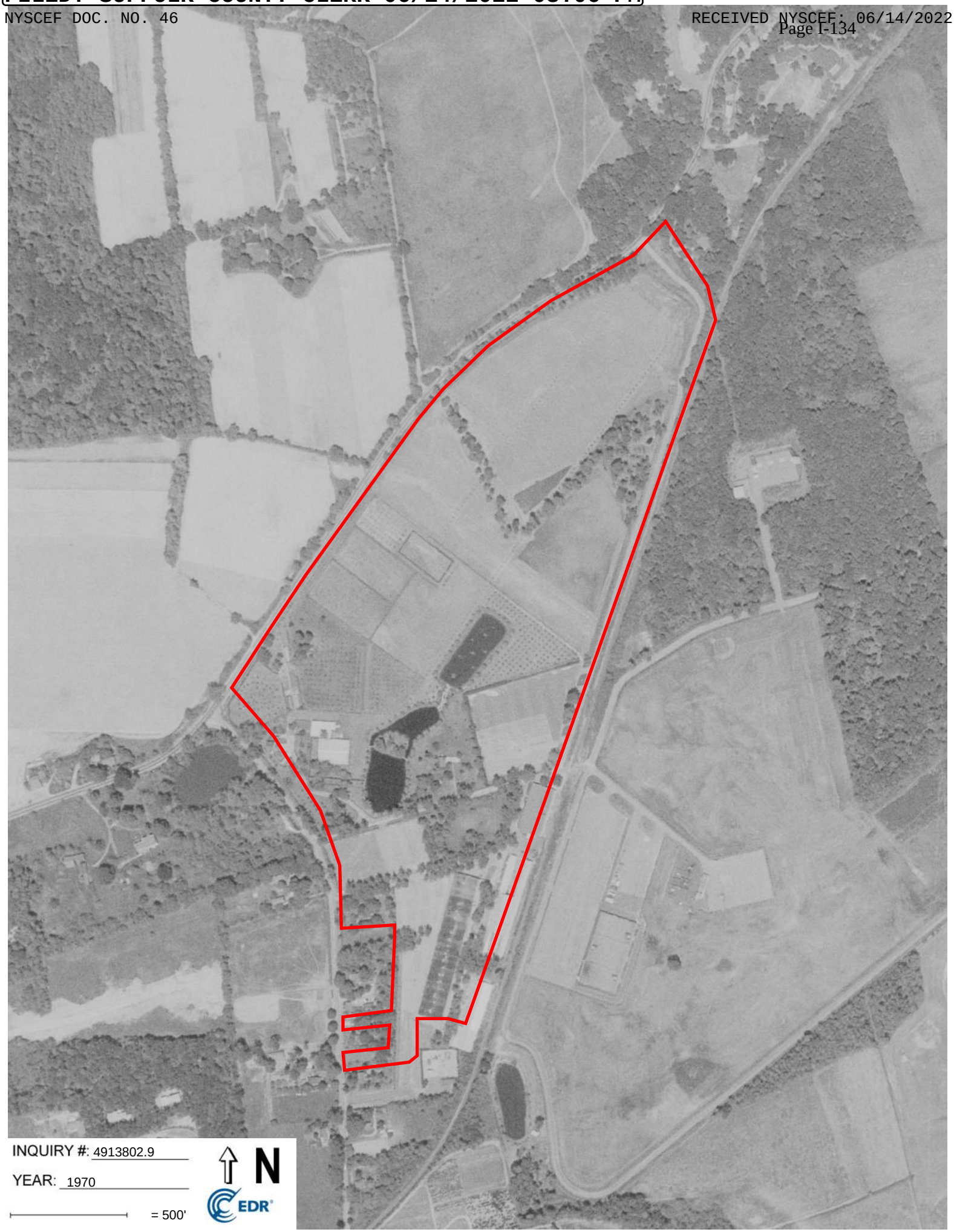
EDR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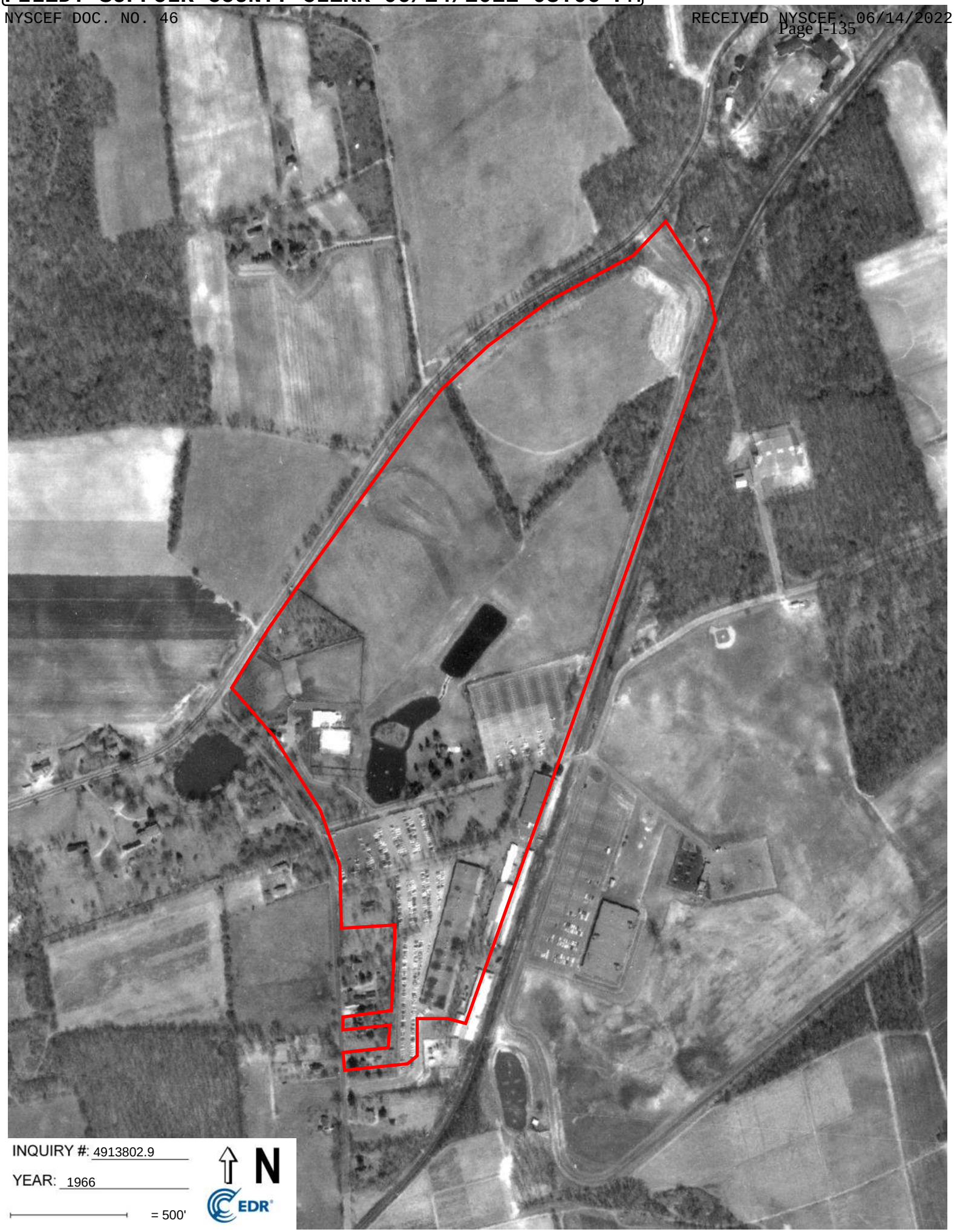
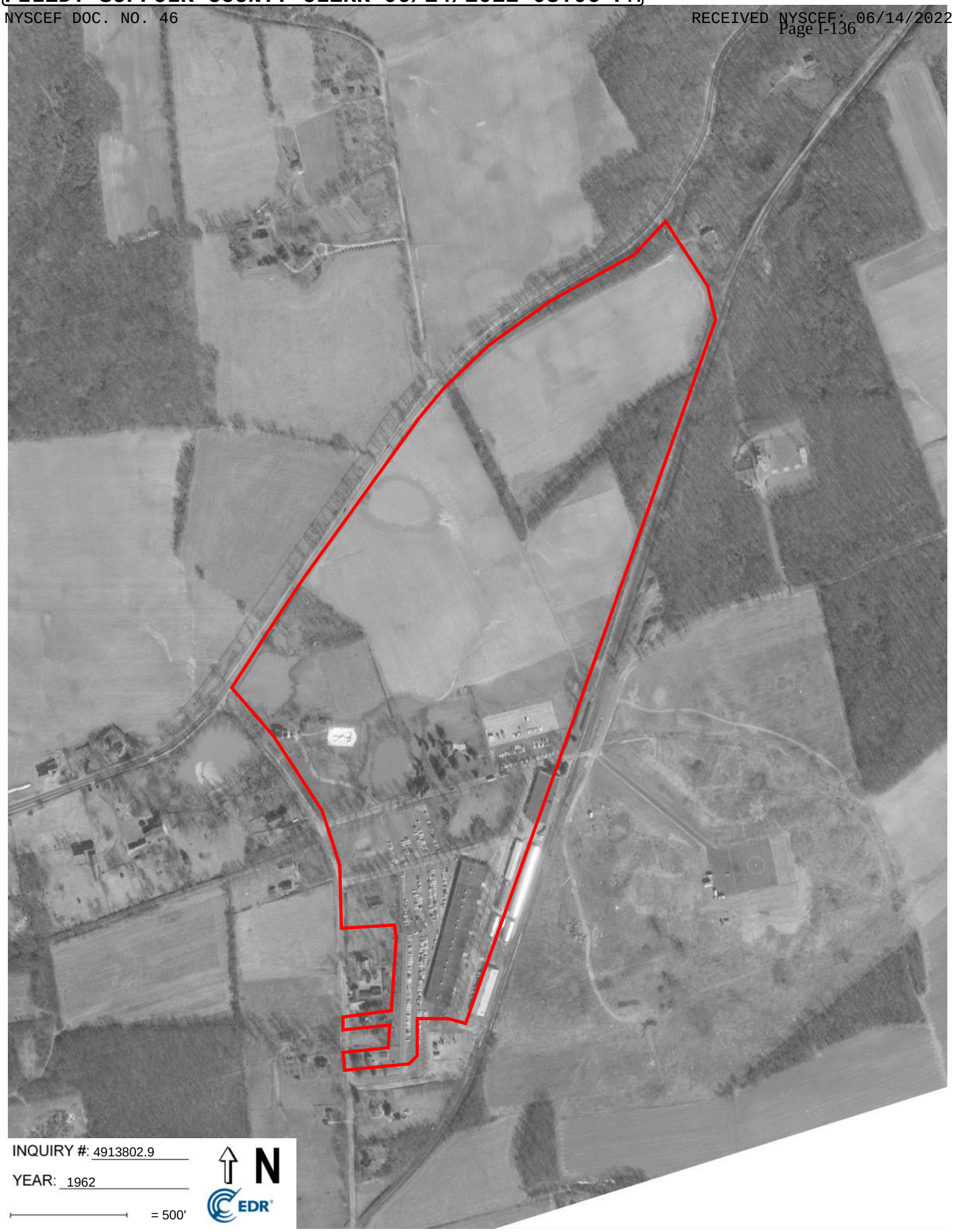
N
EDR


INQUIRY #: 4913802.9
YEAR: 1966
= 500'
N
EDR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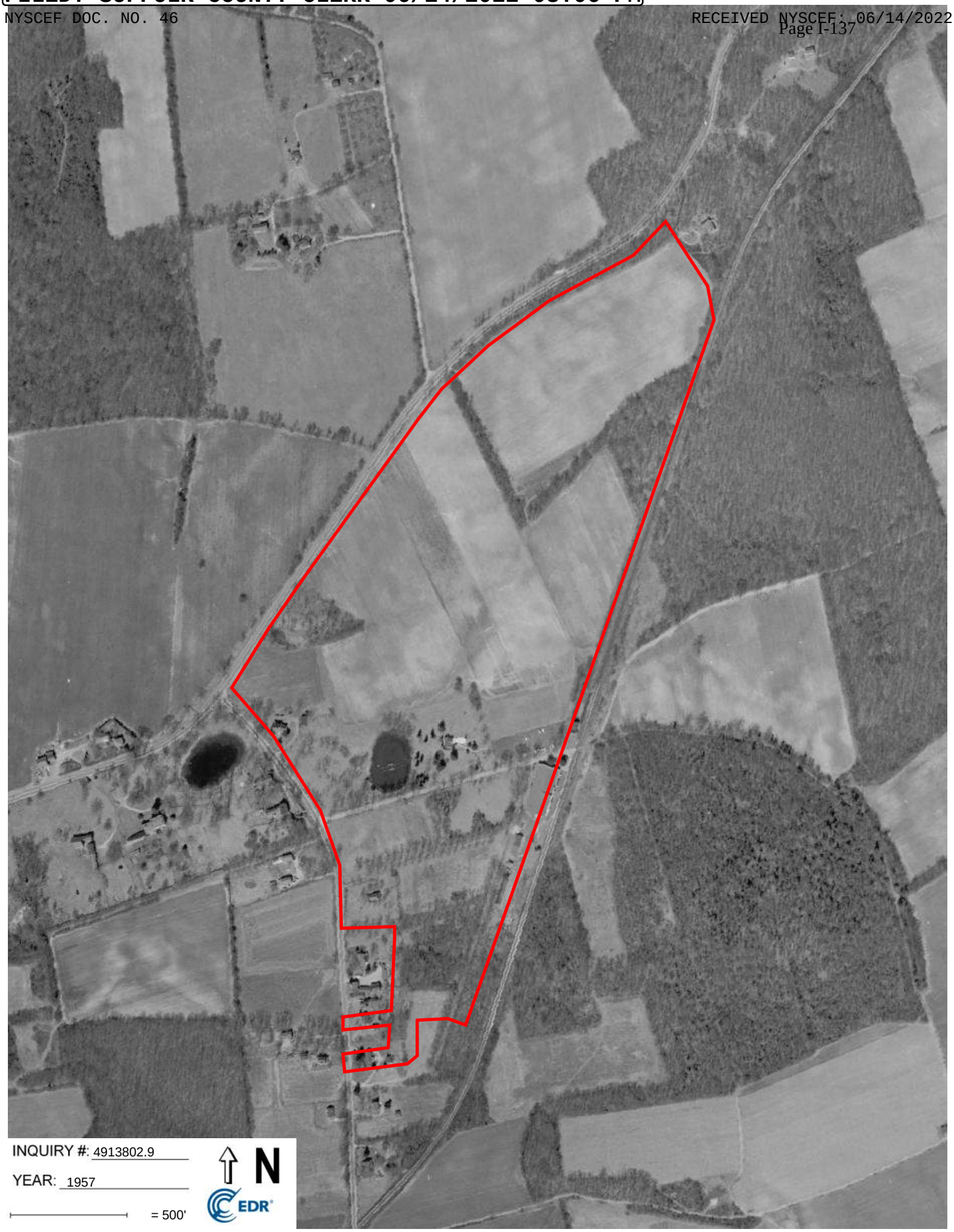
EDR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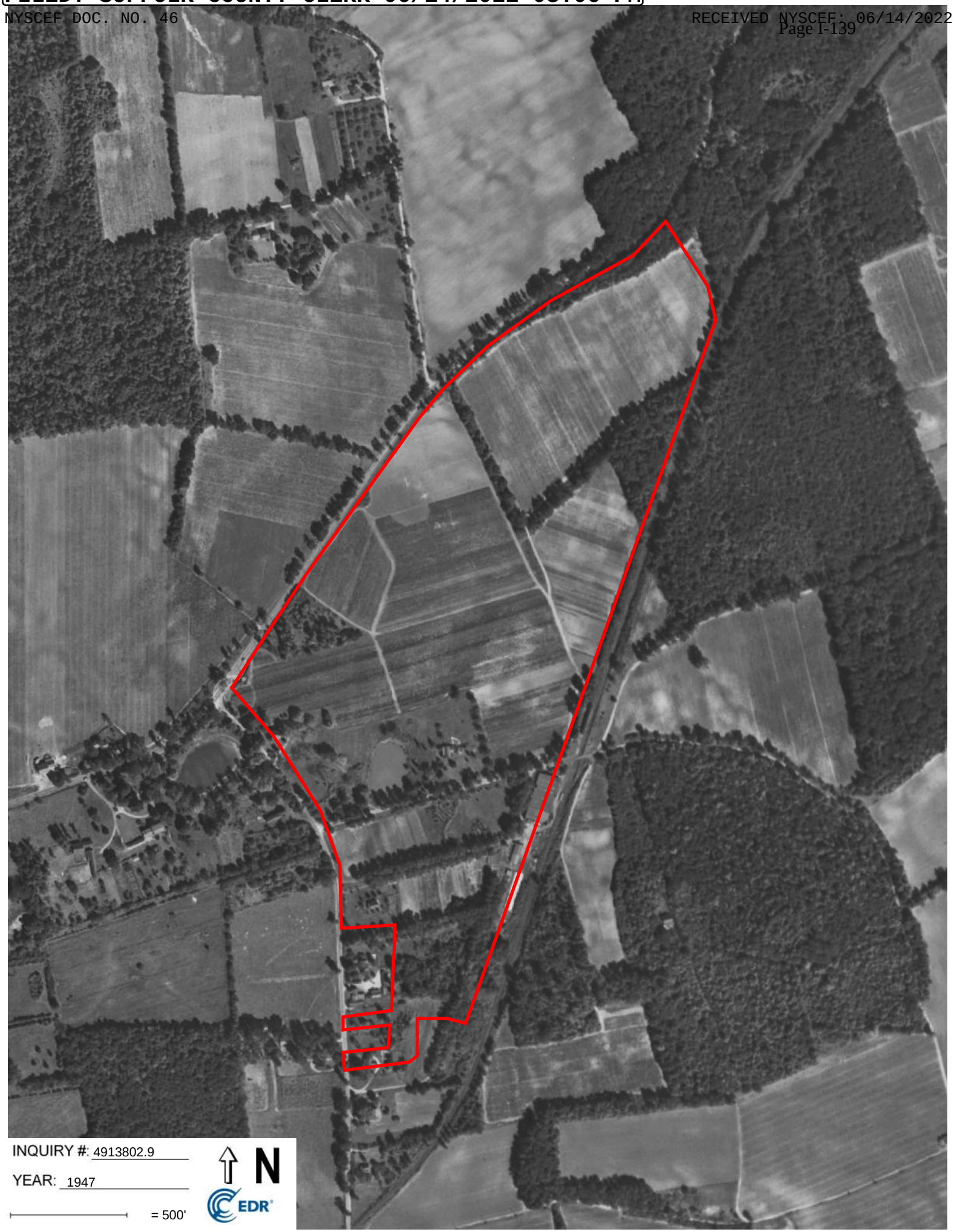
N
EDR


INQUIRY #: 4913802.9
YEAR: 1954
= 500'
N
EDR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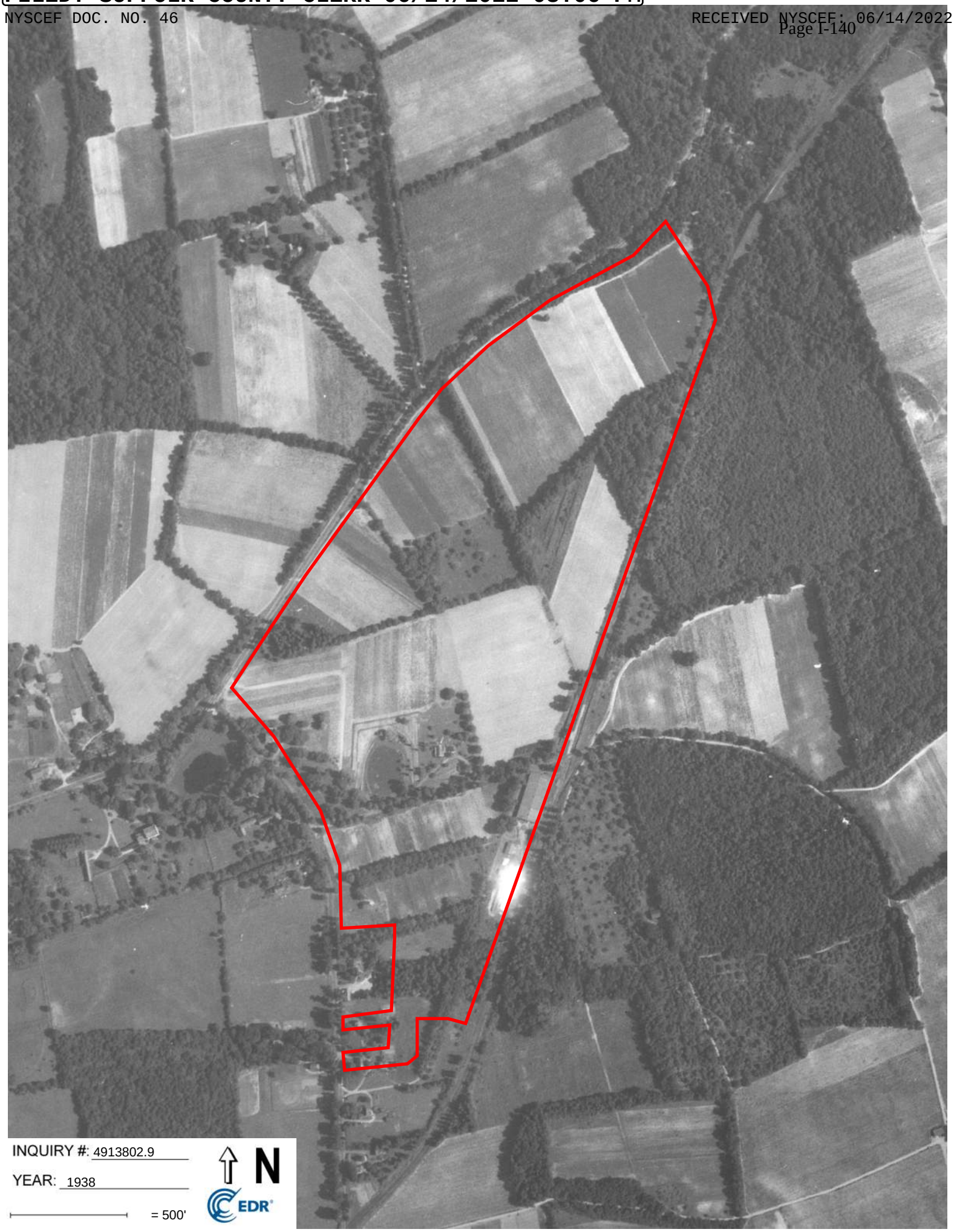
YEAR: 1947
= 500'
N
EDR


INQUIRY #: 4913802.9
YEAR: 1938
= 500'
N
EDR

APPENDIX E
CITY DIRECTORY ABSTRACT

Gyrodyne Property
1 Flowerfield
Saint James, NY 11780

Inquiry Number: 4913802.5
April 21, 2017

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2013	☑	☐	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☑	☐	Cole Information Services
1995	☑	☐	Cole Information Services
1992	☑	☐	Cole Information Services
1986	☑	☐	Cole Criss-Cross Directory
1981	☑	☐	Cole Criss-Cross Directory
1976	☑	☐	Cole Criss-Cross Directory
1971	☐	☐	Cole Criss-Cross Directory

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

1 Flowerfield
Saint James, NY 11780

Year	*CD Image*	*Source*	
FLOWERFIELD			
2013	pg A1	Cole Information Services	
2008	pg A2	Cole Information Services	
2003	pg A3	Cole Information Services	
1999	pg A4	Cole Information Services	
FLOWERFIELD RD			
1995	pg A5	Cole Information Services	
1992	pg A6	Cole Information Services	
1986	pg A7	Cole Criss-Cross Directory	
1981	pg A8	Cole Criss-Cross Directory	
1976	pg A9	Cole Criss-Cross Directory	
1971	-	Cole Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

FLOWERFIELD 2013

1	ALLSTATE
	BIOTHOTIC INC
	GYRODYNE CO OF AMERICA INC
	RAM MARKET
	RYAN DITTMAR ALLSTATE AGENT
2	CUSTOM AUTOCRAFT
	QUEST LASER SERVICES
	SAMA MILLWORK INCORPORATED
7	APEX GYMNASTICS ATHLETICS
	ENERGY UTILITY MRKT
	JB LARSEN BUILDERS INC
	MESOSCRIBE
	MILLS POND KITCHEN
	MR FROST REFRIGERATION & AIR CONDITI
	MUSIC ARTS
	OSPREY SALES
	PATROLEUM MARKETING INCORPORATED
	PETERSON AIR CONDITIONING
	S & B SOLUTIONS INC
	SEISKAYA BALLET SCHOOL
	STUDIO 7
	T CS DELI & CATERER CO INC
	THE GOOD TIMES BOOK SHOP
	USA PROGRAM ADMINISTRATORS
8	AUTO RESTORATION OF LONG ISLAND
	JOHN SCHOENDORF
	WOODCRES COMP LONKLEIN
17	PEDERSONKRAGCENTER
27	RYAN PROPERTY MANAGEMENT

FLOWERFIELD 2008

1	ALTUS METAL & MARBLE
	ENERGY UTILITY MARKETING INC
	GOTTESMAN ORGANIZATION INC
	GYRODYNE CO OF AMERICA INC
	RAM MARKETING
	SIANI DONNA
2	CUSTOM DESIGN & MANUFACTURING CO
	QUEST LASER SERVICES INC
	SAMA MILLWORKS INC
	SPORTS CAR HAVEN
7	AESOPS GICLEE LTD
	CDL CENTERS INC
	D L PETERSON CORP
	HECHTEL MUSIC STUDIO
	LONG ISLAND PROMOTIONS
	NORPOTH MUSIC STUDIO
	S & B SOLUTIONS INC
	SEISKAYA BALLET
	SEISKAYA BALLET SCHOOL
	SHOTOKAN KODOKAN DOJO
	STUDIO 7
	USA PROGRAM ADMINISTRATORS
8	AZ DESIGN
	JOHN SCHOENDORF
	STAR BUILDERS OF SUFFOLK INC
12	BIOTHOTIC INC
17	CARCO GROUP
	THE PEDERSON KRAG CENTER
18	SCIENTRONICS MANUFACTURING CO
102	FLOWERFIELD PROPERTIES

Target Street ✓ Cross Street - Source Cole Information Services

FLOWERFIELD 2003

1	PRIME FASTENER CORP
	PROTECH AUDIO CORP
	SCIENTRONICS MFG CO
2	BIOTHOTIC INC
	BUXTON MACHINING & FABRICATING
	CDM DYNAMICS INC
	CUSTOM AUTOCRAFT INC
	CUSTOM DESIGN & MFG CO
	NYLE BUXTON
	QUEST LASER SERVICES INC
	SAMA MILLWORK INC
	SPORTS CAR HAVEN
7	AESOPS IMAGES
	ATHENA DIAMOND INC
	COYOTE MUSIC INC
	DL PETERSON CORP
	FLOWERFIELD PROPERTIES INC
	HECHTEL MUSIC STUDIO
	KIDDIE ACADEMY
	LEONID DOBROVSKI
	LONG ISLAND AWARDS & PRMTN
	LONG ISLAND PROMOTIONS
	MR FROST HEATING & AIR CNDTNNG
	NORPOTH MUSIC STUDIO
	S & B SOLUTIONS INC
	SHOTOKAN KODOKAN DOJO
	TCS DELI & CATERER CO
	USA PROGRAM ADMINISTRATORS INC
	WIRELESS CO
8	JOHN SCHOENDORF
	POOLHUT CO
	POWER POOL CARE INC
25	OCCUPANT UNKNOWN
83	MEDBILL

Target Street ✓ Cross Street - Source Cole Information Services

FLOWERFIELD 1999

7 CARRIAGE HOUSE PLAYERS
FLOWERFIELD
HEATH SEDGWICK
KIDDIE ACADEMY
LONG ISLAND AWARDS & PROMOTIONS
17 CARCO

Target Street ✓ Cross Street - Source Cole Information Services

FLOWERFIELD RD 1995

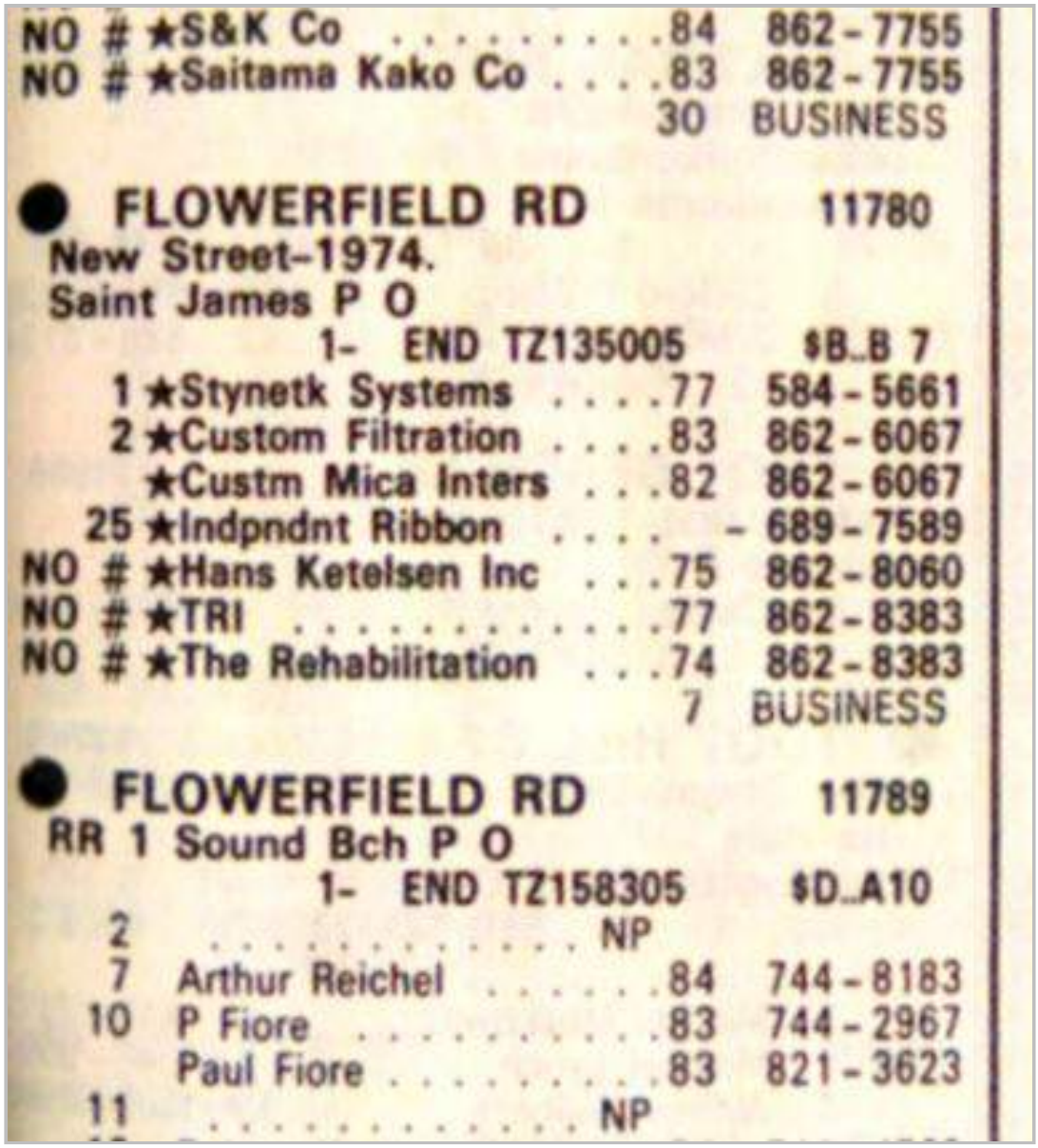
0	LONG ISLAND TECHNICAL SVCES INC
	NEW YORK SAFE & LOCK CO
1	LOSALTO, JOHN
2	MAGNETON TECHNOLOGIES INC
7	CARRIAGE HOUSE PLAYERS
	ISLAND SPECIALTY ADVTNG
	LONG ISLAND AWARDS CORP
	LONG ISLAND PROMOTIONS INC
	STUDIO 7

Target Street ✓ Cross Street - Source Cole Information Services

FLOWERFIELD RD 1992

0	LONG ISLAND TECHNICAL SVCES INC
	MARYHAVEN ADULT SVCES HOME
	NEW YORK SAFE & LOCK CO
	TELECOM INC
1	PROCESS MEDICAL SYSTEMS CORP

FLOWERFIELD RD 1986

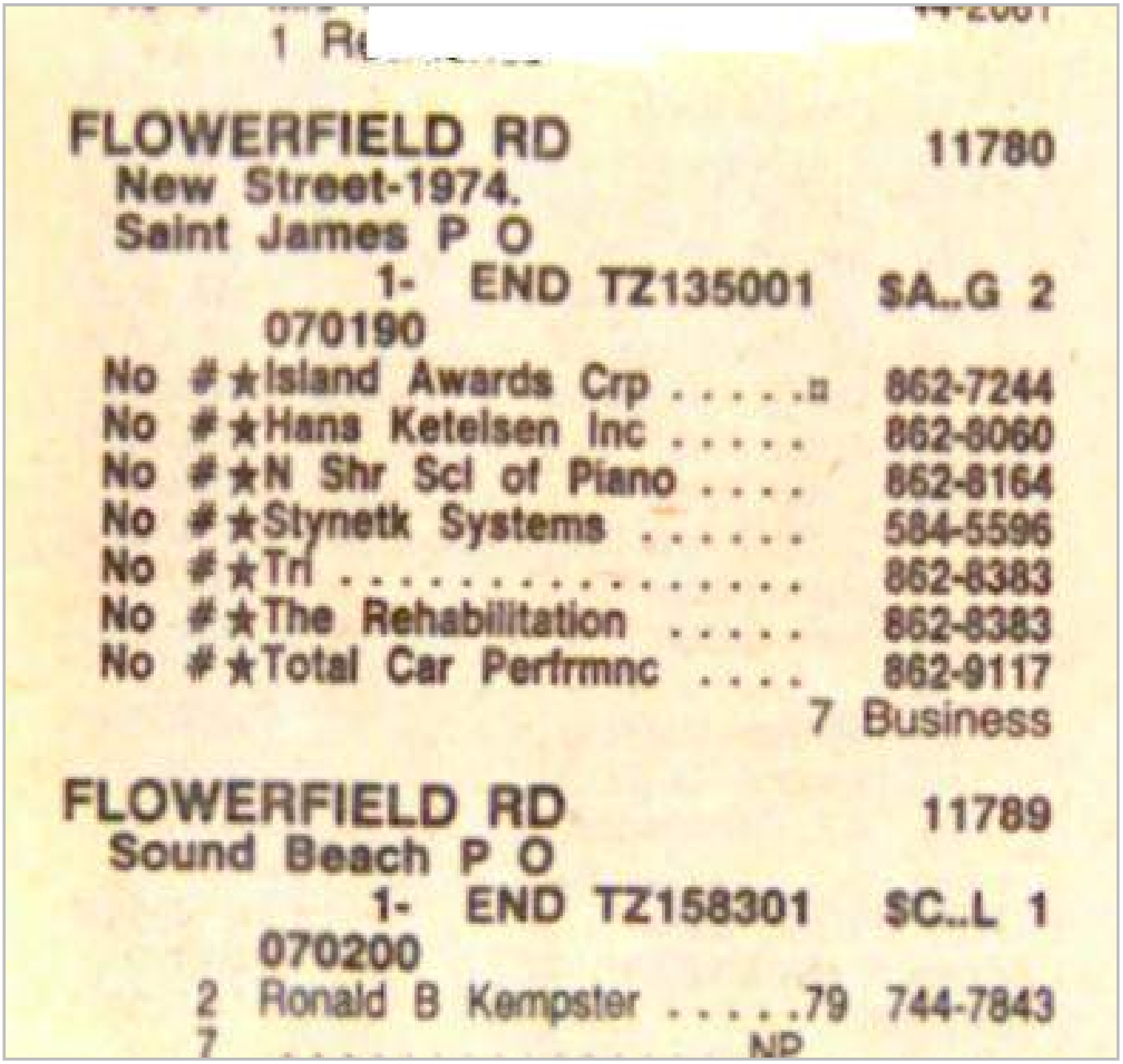


NO # ★S&K Co 84 862-7755
NO # ★Saitama Kako Co 83 862-7755
30 BUSINESS

● FLOWERFIELD RD 11780
New Street-1974.
Saint James P O
1- END TZ135005 $B..B 7
1 ★Stynetk Systems 77 584-5661
2 ★Custom Filtration 83 862-6067
★Custm Mica Inters . . .82 862-6067
25 ★Indpndnt Ribbon . . . . - 689-7589
NO # ★Hans Ketelsen Inc . . .75 862-8060
NO # ★TRI 77 862-8383
NO # ★The Rehabilitation . . .74 862-8383
7 BUSINESS

● FLOWERFIELD RD 11789
RR 1 Sound Bch P O
1- END TZ158305 $D..A10
2 . . . . . NP
7 Arthur Reichel 84 744-8183
10 P Fiore 83 744-2967
Paul Fiore 83 821-3623
11 . . . . . NP

FLOWERFIELD RD 1981



1 Re

FLOWERFIELD RD 11780
New Street-1974.
Saint James P O
1- END TZ135001 SA..G 2
070190
No #★Island Awards Crp .....□ 862-7244
No #★Hans Ketelsen Inc 862-8060
No #★N Shr Scl of Piano 862-8164
No #★Stynetk Systems 584-5596
No #★Tri 862-8383
No #★The Rehabilitation 862-8383
No #★Total Car Perfrmnc 862-9117
7 Business

FLOWERFIELD RD 11789
Sound Beach P O
1- END TZ158301 SC..L 1
070200
2 Ronald B Kempster 79 744-7843
7 ..... ND

FLOWERFIELD RD 1976

FLOWERFIELD RD 11764
Miller Place P O
1 - END TZ 158301 SC..L 1
066900
No # Mrs Emma Roeber..... 744-2081
1 RESIDENCE

FLOWERFIELD RD 11780
Saint James P O
066910
No # ★ B T Pharmaceutical .. □ 862-8999
No # ★ Expert Piano Mvrs ... 864-2130
No # ★ Forbes&Co ..... □ 862-8719
No # ★ Hans Ketelsen Inc ... 862-8060
No # ★ N Shore Schl Piano .. – 862-8164
No # ★ Stynetk Systems..... □ 584-5596
No # ★ Tri ..... □ 862-8383
No # ★ The Rehabilitation ... 862-8383
8 BUSINESS

FLOWERFIELD RD 11789
Sound Beach P O
1 - END TZ 158301 SC..L 1
066920
2 Ronald B Kempster..... 6 744-762
10 Martin Catanzaro 6 744-873

APPENDIX F
SITE QUESTIONNAIRE
AND RELEVANT DOCUMENTS

P.W. GROSSER CONSULTING

Client Questionnaire

P.W. Grosser Consulting Inc. (PWGC) has been contracted to perform a Phase I Environmental Site Assessment (ESA) of the property listed below. The Phase I investigation will include site observations, interviews, and review of available documentation. To ensure the success of the assessment, and in accordance with the ASTM 1527-13 which documents certain user responsibilities, we are submitting this questionnaire to assist you in meeting those responsibilities. If you could please complete this questionnaire and return it via email within one business day of receipt it will allow us to complete the Phase I ESA in a timely and efficient manner.

Name of person completing questionnaire: Marigene Gallicchio **Date:** 5/18/17

Company: Gyrodyne

Length of association with property: approx 13yrs. **Phone #:** (631) 584-5400

Property Name/Address:

PWGC Project #:

Directions: Please read and answer all questions very carefully, to the best of your knowledge and in good faith. Mark the column corresponding to the appropriate response. Supplemental details necessary to explain any yes or unknown responses should be provided in the "Comments" column. Note: U/NR indicates "Unknown" or "No Response," and "N/A" indicates not applicable. If "Comment" box proves too small to fit your comment please attach an additional form with your full response.

		Question	Y	N	U/NR	Comment
1		Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?		✓		
2		Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property?		✓		
3		Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?		✓		
4		Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?		✓		
5		Are you aware of any Activity and Use Limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?		✓		

PWGC
Strategic Environmental Engineering Solutions

		Question	Y	N	U/NR	Comment
6		As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or previous occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?		✓		
7		Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be				N/A
8		Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened		✓		
	8(a)	Do you know past uses of the property?		✓		
	8(b)	Do you know of specific chemicals that are present or once were present at the property?		✓		
	8(c)	Do you know of any spills or other chemical releases that have taken place at the property?		✓		
	8(d)	Do you know of any environmental cleanups that have taken place at the site?		✓		
9		As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the		✓		

In addition, are you aware of any of the following documents, and if so, please forward copies of the document(s) to P.W. Grosser Consulting at 630 Johnson Ave, Ste 7, Bohemia, NY 11716-2618 (along with a copy of this form):

Helpful Documents to be forwarded to PWGC:

__Environmental site assessment reports (i.e. Phase I or II, tank testing results, radon, lead paint, or asbestos testing, etc.)
__Environmental compliance audit reports; risk assessments; and recorded Activity and Use Limitations (AULs)
__Environmental permits (i.e. solid waste disposal, hazardous waste disposal, wastewater, NPDES, etc.)
__Registrations for underground storage tanks (USTs) and aboveground storage tanks (ASTs)
__Registrations for underground injection systems Material safety data sheets
__Community right to know plan
__Safety plans; preparedness and prevention plans; spill prevention, countermeasure/control plans, etc.
__Reports regarding hydrogeological or geotechnical conditions on the property and surrounding area
__Notices/correspondence from any agency relating to past or current violations of environmental laws, or liens encumbering the property
__Hazardous waste generator notices or reports
__Other:

X

X

X

X

X

GYRODYNE, LLC
FLOWERFIELD TENANT LIST
BY BLDG
5/9/2017

	A	B	C	D	P	Q
1						TENANT
2		TENANT NAME	LOCATION	SQ. FT.	USE PER LEASE	SINCE
3		BLDG 1				
4		DONNA K. SIANI	BLDG 1:6	990	music studio	2001
5	*	EAST END FURS	BLDG 1:201	420	cold storage	2004
6		NAUSICA S. PAPADAKOS	BLDG 1:203	520	cold storage	1995
7	*	SCHAFERHUND SCHUTZHUND CLUB	BLDG 1:208	400	office	2001
8		TOWNE BUS	BLDG 1:16 & 18	1,243	office	1987
9		BLDG 1 LEASED	sub total bldg 1	3,573		
10		GYRODYNE, LLC OFFICE		2,442		
11		BLDG 1 COMMON AREA		3,866		
12		BLDG 1 VACANCIES		15,119		
13		TOTAL BLDG 1		25,000		
14						
15		BLDG 2				
16	*	2600 ENTERPRISES	BLDG 2: 30	1,696	storage & shipping	2000
17		ANNA FENIMORE	BLDG 2: 27	1,271	art studio	2016
18		JB LARSEN + LONG HILL CARPENTRY	BLDG 2: 66	2,100	shared storage	2016
19		MATTHEW MCSHANE	BLDG 2:48	1,056	art studio	2016
20	*	SAMA MILLWORK	BLDG 2:21	1,600	cabinetry & woodwork	2001
21	*	SAMA MILLWORK	BLDG 2:24	1,257	cabinetry & woodwork	2001
22	*	SAMA MILLWORK	BLDG 2:33	1,262	cabinetry & woodwork	2001
23	*	SAMA MILLWORK	BLDG 2:51	688	storage	2012
24		SAMA MILLWORK	BLDG 2:36	1,517	cabinetry & woodwork	2013
25		THE ATELIER AT FLOWERFIELD - 6 & 9	BLDG 2: 6 & 9	1,905	art studio	2017
26		THE ATELIER AT FLOWERFIELD - 12	BLDG 2:12	1,141	art studio	2016
27		THE ATELIER AT FLOWERFIELD - 15	BLDG 2:15	830	art studio	2016
28		THE ATELIER AT FLOWERFIELD - 18	BLDG 2:18	2,130	art studio	2016
29	*	TOWNE BUS	BLDG 2:42	2,390	office	1987
30		TOWNE BUS	OUTSIDE DEPOT	0	bus depot	1987
31	*	ELIZABETH MATHEW	BLDG 2:45	1,129	storage	2008
32		BLDG 2 LEASED	sub total bldg 2	21,972		
33		BLDG 2 COMMON		5,188		
34		BLDG 2 VACANCIES		6,720		
35		TOTAL BLDG 2		33,880		
36						
37		BLDG 7				
38	7N	APEX GYMNASTICS	BLDG 7:14,93, 96	8,136	gym	2012
39	7N	APEX GYMNASTICS	BLDG 7:92	905	gym	2015
40	7S	BIOCOGENT	BLDG 7: 38	1,930		2017
41	7N	CODENOTCH LAB WORKS, INC.	BLDG 7:98	675	digital photography lab	2008
42	7N	NICK LETTAS	BLDG 7:94	522	office	2015
43	7N	D. L. PETERSON	BLDG 7:10	949	office	1974
44	7N	FLORENCE HECHTEL MUSIC STUDIO	BLDG 7:23	245	music studio	2013
45	7N	PETROLEUM MARKETING GROUP, INC	BLDG 7:2	1,360	office	1996
46	7N	SANGAH SUH	BLDG 7:108	905	art studio	2013
47	7N	SANGAH SUH	BLDG 7:100 &102	1,822	art studio	2013
48	7N	SEISKAYA BALLET	BLDG 7:3,8 & 2C	4,178	ballet studio	1974
49		SMITHTOWN STRENGTH - CROSSFIT	BLDG 7:42,80,82	6,450	gym	2016
50		SUNY IT	BLDG 7:44 & 74	12,980		2008
51	7N	STILLWATER HEALING & WELLNESS	BLDG 7:20-1	144	office	2014
52	7N	STONY BROOK CHILDREN'S SERVICES	BLDG 7:28	2,673	office	2016
53	7N	THE ATHLETE ZONE	BLDG 7:18, 20-4, 26	3,469	indoor sports facility	2012
54	7N	THE ATHLETE ZONE	BLDG 7:22	347	office	2013
55	7S	BBQ MASTERS, INC. formerly Lunchbox Deli	BLDG 7:43	750	deli	2013
56		BLDG 7 LEASED	sub total bldg 7	48,440		
57		BLDG 7 COMMON		7,029		
58		BLDG 7 VACANCIES		17,531		
59		TOTAL BLDG 7		73,000		
60						
61		BLDG 8				
62		J.B. LARSEN BUILDERS INC.	BLDG 8:9	1,090	sheet metal fabrication	1996
63		LONG HILL CARPENTRY, INC	BLDG 8:12	994	carpentry work & storage	1999
64		SCHOOL OF VISUAL ARTS	BLDG 8:3 &6	2,012	storage & fabrication of art	1997
65		SCHOOL OF VISUAL ARTS	BLDG 8:28	3,390	storage & fabrication of art	1997
66		SOLARSUN, INC.	BLDG 8:15	1,042	manufacturing of coatings	1999
67		THOMAS MUSIAL	BLDG 8: 24	970		2017
68		TOWNE BUS	BLDG 8:30	4,800	office	1987
69		TRIANGLE ELEC	BLDG 8:18	1,042	office & electrical warehouse	1989
70		WACKER ORTHOPEDIC	BLDG 8:21	1,042	fabrication of orthopedic devices	2015
71		BLDG 8 LEASED	sub total bldg 8	16,382		
72		BLDG 8 COMMON		3,718		
73		BLDG 8 VACANCIES		0		
74		TOTAL BLDG 8		20,100		
75						
76						
77		TOTAL RENTED	COMPLEX	90,367		
78		TOTAL VACANT	COMPLEX	39,370		
79		NET RENTABLE SQ. FT. - COMPLEX		129,737		
80						
81		GYRODYNE OFFICE		2,442		
82		COMMON AREAS		19,801		
83						
84		TOTAL COMPLEX		151,980		

COUNTY OF SUFFOLK

STEVE LEVY
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

JAMES L. TOMARKEN, MD
MSW, MPH, MBA, FRCPC, FACP
Commissioner

August 22, 2011

Mr. Clint Borkstrom
Gyrodyne Corporation
1 Flowerfield Road
St. James, NY 11780

Re: Gyrodyne 1 Flowerfield Road, St. James, NY
SC FR# 07444

Dear Mr. Borkstrom,

This office has reviewed the closure documentation submitted by PW Grosser on your behalf regarding the remediation work performed at the above-referenced location.

Based on the information provided, this office will be requiring no further action in regard to the on-site sanitary system or storm water leaching pools at this time. All endpoint analyses and waste disposal manifests have been deemed acceptable and the matter is closed.

If you have any questions regarding this matter, please feel free to contact me at 631-854-2534.

Best regards,

Edward Roe

Edward Roe, *Project Manager*
Public Health Sanitarian
Bureau of Environmental Investigation and Remediation

Janet M. Gremli

Janet M. Gremli
Associate Public Health Sanitarian

Thomas Melia

From: Gremli, Janet
Sent: Tuesday, June 27, 2017 7:41 PM
To: 'Thomas Melia'
Subject: RE: Gyrodyne/Flowerfield

Tom,

The sanitary systems to be abandoned will require sampling, including those remediated in 2011. The structures should be sampled currently, remediation work completed as needed, and only those structures impacted during this current round of sampling *may* require re-sampling, depending on the compounds found and elevated levels noted. Best management practices should be instituted to eliminated any potential illicit discharges post remediation.
This information should be included in the Phase II report to be submitted to the County for review.
Any further questions, please ask.

Respectfully,

Janet M. Gremli
Principal Public Health Sanitarian
Bureau of Environmental Investigation and Remediation
Office of Pollution Control
SCDHS
631-854-2513

From: Thomas Melia [mailto:thomasm@pwgrosser.com]
Sent: Thursday, June 22, 2017 4:30 PM
To: Gremli, Janet
Subject: Gyrodyne/Flowerfield

Janet –

We are working with Cameron Engineering on the proposed subdivision of the Gyrodyne/Flowerfield property in St. James. Obviously as part of the subdivision approval they will need sign off from Pollution Control. We did a cleanout of the sanitary systems and storm drains associated with the industrial buildings in 2011 and received a NFA letter. The question we have is whether they will have to do additional sampling of those pools at this time to get approval on the subdivision. The development plan for the site includes as sewage treatment plant, so if at all possible, they'd like to defer additional sampling of the industrial building sanitary systems until the STP is complete and they are ready to close out the sanitary systems and connect to the STP, so as to avoid sampling now, and then having to go back and re-sample everything again in a couple of years.

Any guidance you could offer on this would be appreciated. Thanks.

Thomas Melia | Senior Project Manager

P.W. Grosser Consulting

630 Johnson Ave, Suite 7
Bohemia, NY 11716
w. 631.589.6353
c. 516.315.6002
f. 631.589.8705

Thomas Melia

From: Gremli, Janet
Sent: Thursday, June 29, 2017 3:28 PM
To: 'Thomas Melia'
Subject: RE: Gyrodyne/Flowerfield

Tom,
See my notes below in the body of the document.

Janet M. Gremli
Principal Public Health Sanitarian
Bureau of Environmental Investigation and Remediation
Office of Pollution Control
SCDHS
631-854-2513

From: Thomas Melia [mailto:thomasm@pwgrosser.com]
Sent: Wednesday, June 28, 2017 10:19 AM
To: Gremli, Janet
Subject: RE: Gyrodyne/Flowerfield

Janet –

Thanks for getting back to me. Our plan will likely be to sample all the sanitary structures, initially run only the septic tank and primary cesspool samples, with samples from the secondary pools on hold at the lab to be run as needed. Samples from the secondary pools should be field screened and those exhibiting potential impact should be analyzed. Remaining samples may be held pending analysis. As far as storm water structures, we had two that required remediation back in 2011 (out of 13 that were sampled). These pools should be analyzed for SC parameters, not only those compounds noted in the past. For this go around, we'd like to go ahead and run samples from the two drains requiring remediation in 2011, and field screen the remainder of the storm drains, analyzing only those that show evidence of impact. Would that be acceptable to SCDHS? Yes. See notes.

The other question we have about the site (and I'm not sure if you are even the correct person to address this to) is regarding a Soil Management Plan (SMP) that we prepared in 2007. The SMP was based on a SCDHS draft guidance document for management of potentially contaminated soils, that (as far as we can tell) was never formally adopted. The SMP addressed the low level impact in the soils (primarily arsenic). However, reviewing the sampling data that the SMP was based on, the vast majority of the samples meet the current NYSDEC Unrestricted Use SCOs, and those that don't meet Unrestricted Use meet the Residential SCOs. So the question we have, is how we would go about having the requirement that the SMP be implemented during redevelopment rescinded. In 2006, the County gave this responsibility to the local townships. Town of Brookhaven will make that determination.

Thanks for your help.

Thomas Melia | Senior Project Manager **| P.W. Grosser Consulting**
630 Johnson Ave, Suite 7
Bohemia, NY 11716
w. 631.589.6353
c. 516.315.6002
f. 631.589.8705

From: Gremli, Janet [mailto:Janet.Gremli@suffolkcountyny.gov]
Sent: Tuesday, June 27, 2017 7:41 PM
To: 'Thomas Melia' <thomasm@pwgrosser.com>
Subject: RE: Gyrodyne/Flowerfield

Tom,

The sanitary systems to be abandoned will require sampling, including those remediated in 2011. The structures should be sampled currently, remediation work completed as needed, and only those structures impacted during this current round of sampling *may* require re-sampling, depending on the compounds found and elevated levels noted. Best management practices should be instituted to eliminated any potential illicit discharges post remediation.
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Any further questions, please ask.

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Janet M. Gremli
Principal Public Health Sanitarian
Bureau of Environmental Investigation and Remediation
Office of Pollution Control
SCDHS
631-854-2513

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Any guidance you could offer on this would be appreciated. Thanks.

Thomas Melia | Senior Project Manager

P.W. Grosser Consulting

630 Johnson Ave, Suite 7
Bohemia, NY 11716
w. 631.589.6353
c. 516.315.6002
f. 631.589.8705

GYRODYNE PROPERTY
1 FLOWERFIELD
SAINT JAMES, NY 11780

Inquiry Number: 4913802.12
APRIL 25, 2017

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

MILL POND ROAD
SAINT JAMES, NY 11780

RESEARCH SOURCE

Source 1: SUFFOLK COUNTY RECORDER OF DEEDS

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GSD FLOWERFIELD LLC
Title received from:	GYRODYNE COMPANY OF AMERICA, INC.
Date Executed:	12/26/2013
Date Recorded:	02/27/2014
Book:	12765
Page:	80
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	AS RECORDED IN THE DEED BELOW
Current Owner:	GSD FLOWERFIELD LLC
Property Identifiers:	0800-040-00-02-00-004-000
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

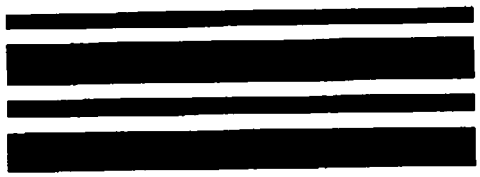
EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
1st Party:	
2nd Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

EDR Environmental Lien and AUL Search

DEED EXHIBIT



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

Type of Instrument: DEED
Number of Pages: 4
Receipt Number : 14-0023769
TRANSFER TAX NUMBER: 13-19707

Recorded: 02/27/2014
At: 11:41:27 AM

LIBER: D00012765
PAGE: 080

District:	Section:	Block:	Lot:
0800	040.00	02.00	004.000

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: $0.00

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$20.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$60.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$380.00	

TRANSFER TAX NUMBER: 13-19707

THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 2

Number of pages 4

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 27 11:41:27 AM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L D00012765
P 080
DT# 13-19707

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee	20-		
Handling	20.00		
TP-584	5-		
Notation			
EA-52 17 (County)	5-	Sub Total	50
EA-5217 (State)	250-		
R.P.T.S.A.	100-		
Comm. of Ed.	5.00		
Affidavit			
Certified Copy			
NYS Surcharge	15.00	Sub Total	330-
Other		Grand Total	380-

Mortgage Amt. ____
1. Basic Tax ____
2. Additional Tax ____
Sub Total ____
Spec./Assit. or Spec. /Add. ____
TOT. MTG. TAX ____
Dual Town ____ Dual County ____
Held for Appointment ____
Transfer Tax 0
Mansion Tax ____

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES ____ or NO ____
If NO, see appropriate tax clause on page # 311 of this instrument.

12/26/13

4 Dist. 14004896 0800 04000 0200 004000 000

Real Property Tax Service Agency Verification

PTS RPOL A 24-FEB-14

5 Community Preservation Fund

Consideration Amount $ 0

CPF Tax Due $ ____

Improved ____
Vacant Land X
TD 08
TD ____
TD ____

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15394

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached Bargain and Sale Deed (SPECIFY TYPE OF INSTRUMENT) TP-1 made by:

Gyrodyne Company of America, Inc.

TO

GSD Flowerfield, LLC

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

In the TOWN of Smithtown
In the VILLAGE or HAMLET of ____

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

(over)

IMPORTANT NOTICE

If the document you've just recorded is your SATISFACTION OF MORTGAGE, please be aware of the following:

If a portion of your monthly mortgage payment included your property taxes, *you will now need to contact your local Town Tax Receiver so that you may be billed directly for all future property tax statements.

Local property taxes are payable twice a year: on or before January 10th and on or before May 31st. Failure to make payments in a timely fashion could result in a penalty.

Please contact your local Town Tax Receiver with any questions regarding property tax payment.

Babylon Town Receiver of Taxes
200 East Sunrise Highway
North Lindenhurst, N.Y. 11757
(631) 957-3004

Brookhaven Town Receiver of Taxes
One Independence Hill
Farmingville, N.Y. 11738
(631) 451-9009

East Hampton Town Receiver of Taxes
300 Pantigo Place
East Hampton, N.Y. 11937
(631) 324-2770

Huntington Town Receiver of Taxes
100 Main Street
Huntington, N.Y. 11743
(631) 351-3217

Islip Town Receiver of Taxes
40 Nassau Avenue
Islip, N.Y. 11751
(631) 224-5580

Riverhead Town Receiver of Taxes
200 Howell Avenue
Riverhead, N.Y. 11901
(631) 727-3200

Shelter Island Town Receiver of Taxes
Shelter Island Town Hall
Shelter Island, N.Y. 11964
(631) 749-3338

Smithtown Town Receiver of Taxes
99 West Main Street
Smithtown, N.Y. 11787
(631) 360-7610

Southampton Town Receiver of Taxes
116 Hampton Road
Southampton, N.Y. 11968
(631) 283-6514

Southold Town Receiver of Taxes
53095 Main Street
Southold, N.Y. 11971
(631) 765-1803

Sincerely,

Judith A. Pascale

Judith A. Pascale
Suffolk County Clerk

dw
2/99

Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. (single sheet)

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 26th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District: 0800

Section: 040.00

Block: 02.00

Lot: 004.000

County: Suffolk

SAID PREMISES being known as Mill Pond Road, Smithtown, New York.

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Joseph L. Dorn, dated December 27, 1965, recorded on January 4, 1966 in the Suffolk County Clerk's Office in Liber 5888, at Page 263.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 30th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6128920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)
On the Day of , 200 , before me, the undersigned, personally appeared
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOT: 004.000
COUNTY: SUFFOLK

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800- 040.00 – 02.00 – 004.000)

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Flowerfield, Town of Smithtown, Suffolk County, New York, and more particularly described as follows:

BEGINNING at a point in the Easterly side of Mills Pond Road, distant 48.20 feet from the North West corner of land of Elderkin, as measured along said Easterly line of Mills Pond Road;

THENCE along the Easterly line of Mills Pond Road north 11 degrees 002 minutes 30 seconds east 221.17 feet to a point.

THENCE north 88 degrees 19 minutes 30 seconds east along land formerly of John Lewis Childs Est., 227.16 feet to a point.

THENCE south 10 degrees 08 minutes west along land formerly of John Lewis Childs Est., 261.9 feet to a point.

THENCE westerly along land of James McKetrick and Louise McKetrick to the easterly side of Mills Pond Road, said point being the point or place of beginning, containing 1 ¼ acres of land.

Interwoven\3431449.2

GYRODYNE PROPERTY
1 FLOWERFIELD
SAINT JAMES, NY 11780

Inquiry Number: 4913802.12
APRIL 25, 2017

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

MILL POND ROAD
SAINT JAMES, NY 11780

RESEARCH SOURCE

Source 1: SUFFOLK COUNTY RECORDER OF DEEDS

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GSD FLOWERFIELD, LLC
Title received from:	GYRODYNE COMPANY OF AMERICA, INC.
Date Executed:	12/26/2013
Date Recorded:	02/19/2014
Book:	12764
Page:	22
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	AS RECORDED IN THE DEED BELOW
Current Owner:	GSD FLOWERFIELD, LLC
Property Identifiers:	0800-040-00-02-00-013-003
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

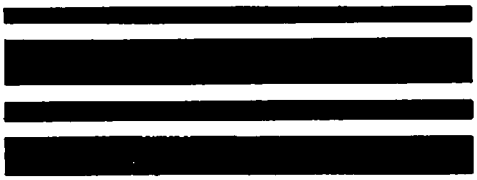
EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
1st Party:	
2nd Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

EDR Environmental Lien and AUL Search

DEED EXHIBIT



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

Type of Instrument: DEED **Recorded: 02/19/2014**
Number of Pages: 11 **At: 02:57:07 PM**
Receipt Number : 14-0019328
TRANSFER TAX NUMBER: 13-18909 **LIBER: D00012764**
PAGE: 022

District:	Section:	Block:	Lot:
0800	040.00	02.00	013.003

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: $0.00

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$55.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$180.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$535.00	

TRANSFER TAX NUMBER: 13-18909

THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 11

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 19 02:57:07 PM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L 000012764
P 022
DT# 13-18909

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee	55.-	Mortgage Amt.	
Handling	20.00	1. Basic Tax	
TP-584	5.-	2. Additional Tax	
Notation		Sub Total	
EA-52 17 (County)	5.-	Spec./Assit. or Spec. /Add.	
EA-52 17 (State)	250.-	TOT. MTG. TAX	
R.P.T.S.A. +2	180.00	Dual Town ___ Dual County ___ Held for Appointment ___	
Comm. of Ed.	5.00	Transfer Tax	0
Affidavit		Mansion Tax	
Certified Copy			
NYS Surcharge	15.00		
Other			
Sub Total	85		
Sub Total	450		
Grand Total	535.- DHM		

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES _____ or NO _____
If NO, see appropriate tax clause on page # _____ of this instrument.
400 12/26/2013

4 Dist. 0800 14003310

Real Property Tax Service Agency Verification

PTS R SMI A 05-FEB-14

See Attached

5 Community Preservation Fund

Consideration Amount $ 0

CPF Tax Due $ _____

TP584.1

Improved _____
Vacant Land _____
TD _____
TD _____
TD _____

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information

Co. Name Advantage Title Agency, Inc.
Title # REC15392

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached by: Bargain and Sale Deed made
(SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

TO
GSD Flowerfield, LLC

In the TOWN of Smithtown
In the VILLAGE
or HAMLET of _____

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

(over)

IMPORTANT NOTICE

If the document you've just recorded is your SATISFACTION OF MORTGAGE, please be aware of the following:

If a portion of your monthly mortgage payment included your property taxes, you will now need to contact your local Town Tax Receiver so that you may be billed directly for all future property tax statements.

Local property taxes are payable twice a year: on or before January 10th and on or before May 31st. Failure to make payments in a timely fashion could result in a penalty.

Please contact your local Town Tax Receiver with any questions regarding property tax payment.

Babylon Town Receiver of Taxes
200 East Sunrise Highway
North Lindenhurst, N.Y. 11757
(631) 957-3004

Brookhaven Town Receiver of Taxes
One Independence Hill
Farmingville, N.Y. 11738
(631) 451-9009

East Hampton Town Receiver of Taxes
300 Pantigo Place
East Hampton, N.Y. 11937
(631) 324-2770

Huntington Town Receiver of Taxes
100 Main Street
Huntington, N.Y. 11743
(631) 351-3217

Islip Town Receiver of Taxes
40 Nassau Avenue
Islip, N.Y. 11751
(631) 224-5580

Riverhead Town Receiver of Taxes
200 Howell Avenue
Riverhead, N.Y. 11901
(631) 727-3200

Shelter Island Town Receiver of Taxes
Shelter Island Town Hall
Shelter Island, N.Y. 11964
(631) 749-3338

Smithtown Town Receiver of Taxes
99 West Main Street
Smithtown, N.Y. 11787
(631) 360-7610

Southampton Town Receiver of Taxes
116 Hampton Road
Southampton, N.Y. 11968
(631) 283-6514

Southold Town Receiver of Taxes
53095 Main Street
Southold, N.Y. 11971
(631) 765-1803

Sincerely,

Judith A. Pascale

Judith A. Pascale
Suffolk County Clerk

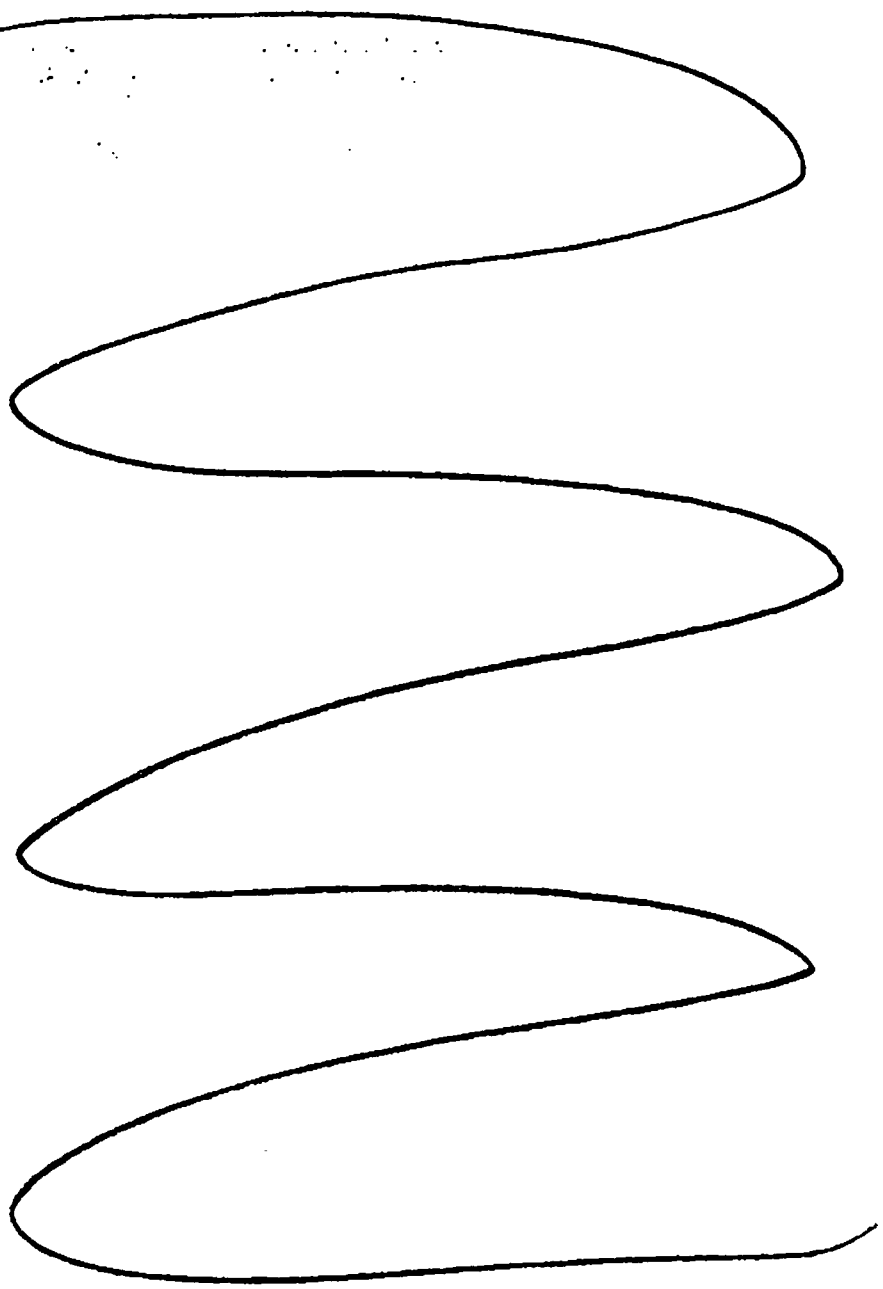
dw
2/99

Doc ID: 14003310

PTS
R SMI A
05-FEB-14

Tax Maps

District	Secton	Block	Lot	School District	Sub Division Name
0800	04000	0200	013003		
0800	04000	0200	013004		
0800	04000	0200	015000	SMITHTOWN	



Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 26th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District:
0800

Section:
040.00

Block:
02.00

Lots:
015.000

13.003 f/k/a
013.001

13.004 f/k/a
013.002

County:
Suffolk

SAID PREMISES being known as Route 25A, Smithtown, New York (as to Lot 13.003 f/k/a 013.001) and Mills Pond Road, Smithtown, New York (as to Lots 015.000 and 13.004 f/k/a 013.002).

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Flowerfield Bulb Farm, Incorporated, dated June 28, 1951, and recorded on July 7, 1951 in the Suffolk County Clerk's Office in Liber 3235, at Page 571.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 20th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6128920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)

On the Day of , 200 , before me, the undersigned, personally appeared personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOTS: 015.000, 13.003 F/K/A 013.001 & 13.004 F/K/A 013.002

COUNTY: SUFFOLK

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800-040.00-02.00-013.003)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365.15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

ALSO EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York, more particularly bounded and described as follows:

BEGINNING at a point on the northeasterly side of Mills Pond Road, distant 143.50 feet southeasterly from the corner formed by the intersection of the southeasterly side of North Country Road, (S.R. 25A) with the northeasterly side of Mills Pond Road;

RUNNING THENCE North 33 degrees 27 minutes 20 seconds East, 264.67 feet;

THENCE North 83 degrees 35 minutes 38 seconds East, 72.05 feet;

THENCE North 89 degrees 26 minutes 45 seconds East, 518.47 feet;

THENCE South 44 degrees 52 minutes 58 seconds East, 297.48 feet;

THENCE South 00 degrees 35 minutes 22 seconds East, 276.39 feet;

THENCE South 75 degrees 40 minutes 36 seconds West, 240.23 feet;

THENCE South 17 degrees 05 minutes 30 seconds East, 222.36 feet;

THENCE South 76 degrees 20 minutes 34 seconds West, 320.78 feet;

THENCE North 73 degrees 37 minutes 29 seconds West, 123.65 feet to the

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

northeasterly side of Mills Pond Road;

THENCE along the northeasterly side of Mills Pond Road the following three (3) courses and distances:

1. North 20 degrees 23 minutes 40 seconds West, 169.85 feet;
2. North 33 degrees 48 minutes 40 seconds West, 378.23 feet;
3. North 41 degrees 15 minutes 40 seconds West, 123.78 feet to the POINT OR PLACE OF BEGINNING.

(0800-040.00-02.00-015.000)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York; more particularly bounded and described as follows:

BEGINNING at a locust stake set in the southeasterly side of North Country Road at the northerly corner of the land now or formerly of Louise Heisler and which said point of beginning is distant 568.76 feet northeasterly from the corner formed by the intersection of the southeasterly side of North Country Road with the northeasterly side of Mills Pond Road; and

RUNNING THENCE along the said southwesterly side of North Country Road the following courses and distances:
North 35 degrees 33 minutes 40 seconds East 790.80 feet;
North 38 degrees 50 minutes 30 seconds East 178.77 feet;
North 45 degrees 48 minutes East 272.39 feet;
North 54 degrees 24 minutes East 321.35 feet;
North 60 degrees 51 minutes 50 seconds East 412.47 feet; and
North 43 degrees 20 minutes 40 seconds East 192.72 feet to a locust stake and the land now or formerly of Anna S. Knudsen; and

RUNNING THENCE along said last mentioned land South 34 degrees 06 minutes 20 seconds East 416.48 feet to a cement monument said in the northwesterly side of the land of the Long Island Railroad;

RUNNING THENCE along said land of Long Island Railroad South 19 degrees 18 minutes West 353.79 feet to a cement monument, and the land of John Lewis Childs, Inc.;

RUNNING THENCE along last said mentioned land the following courses and distances:
South 69 degrees 46 minutes 40 seconds West 56.15 feet to a locust stake;
South 66 degrees 31 minutes 20 seconds West 100.38 feet to a locust stake;
South 60 degrees 40 minutes 10 seconds West 41.34 feet to a locust stake;
South 44 degrees 57 minutes 50 seconds West 753.12 feet to a locust stake;
South 14 degrees 21 minutes 30 seconds East 64.68 feet;
South 23 degrees 24 minutes East 48.17 feet;
South 28 degrees 09 minutes 50 seconds East 89.67 feet to a locust stake;
South 67 degrees 06 minutes 10 seconds West 34.82 feet to a locust stake;
South 74 degrees 08 minutes 30 seconds West 397.65 feet to a locust stake; and
South 74 degrees 13 minutes 50 seconds West 342.64 feet to a locust stake, and the land now or formerly of Louise Heisler;

THENCE along said last mentioned land North 53 degrees 20 minutes 30 seconds West 321.62 feet to a locust stake set in the southeasterly side of North Country Road at the point or place of BEGINNING.

SCHEDULE A (cont'd)

(0800-040.00-02.00-013.001 and 0800-040.00-02.00-013.002)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365. 15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

GYRODYNE PROPERTY
1 FLOWERFIELD
SAINT JAMES, NY 11780

Inquiry Number: 4913802.12
APRIL 25, 2017

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

199 MILLS POND ROAD
SAINT JAMES, NY 11780

RESEARCH SOURCE

Source 1: SUFFOLK COUNTY RECORDER OF DEEDS

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GSD FLOWERFIELD, LLC
Title received from:	GYRODYNE COMPANY OF AMERICA, INC.
Date Executed:	12/26/2013
Date Recorded:	02/19/2014
Book:	12764
Page:	22
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	AS RECORDED IN THE DEED BELOW
Current Owner:	GSD FLOWERFIELD, LLC
Property Identifiers:	0800-040-00-02-00-013-004
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

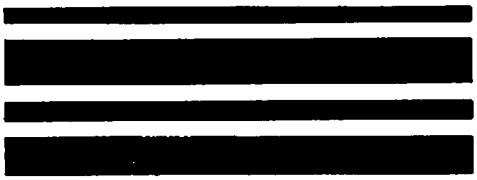
EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
1st Party:	
2nd Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

EDR Environmental Lien and AUL Search

DEED EXHIBIT



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

Type of Instrument: DEED **Recorded: 02/19/2014**
Number of Pages: 11 **At: 02:57:07 PM**
Receipt Number : 14-0019328
TRANSFER TAX NUMBER: 13-18909 **LIBER: D00012764**
PAGE: 022

District:	Section:	Block:	Lot:
0800	040.00	02.00	013.003

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: $0.00

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$55.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$180.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$535.00	

TRANSFER TAX NUMBER: 13-18909

THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 11

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 19 02:57:07 PM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L 000012764
P 022
DT# 13-18909

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee	55.-		
Handling	20.00		
TP-584	5.-		
Notation			
EA-52 17 (County)	5.-	Sub Total	85
EA-52 17 (State)	250.-		
R.P.T.S.A. +2	180.00		
Comm. of Ed.	5.00		
Affidavit			
Certified Copy			
NYS Surcharge	15.00	Sub Total	450
Other		Grand Total	535.- DHM

Mortgage Amt.
1. Basic Tax
2. Additional Tax
Sub Total
Spec./Assit.
or
Spec. /Add.
TOT. MTG. TAX
Dual Town ____ Dual County ____
Held for Appointment
Transfer Tax 0
Mansion Tax

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES ____ or NO ____
If NO, see appropriate tax clause on page # ____ of this instrument.
400 12/26/2013

4 Dist. 0800 14003310

Real Property Tax Service Agency Verification

PTS R SMI A 05-FEB-14

See Attached

5 Community Preservation Fund
Consideration Amount $ 0
CPF Tax Due $

TP584.1

Improved
Vacant Land
TD
TD
TD

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15392

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached by: Bargain and Sale Deed made
(SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

TO
GSD Flowerfield, LLC

In the TOWN of Smithtown
In the VILLAGE
or HAMLET of

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

(over)

IMPORTANT NOTICE

If the document you've just recorded is your SATISFACTION OF MORTGAGE, please be aware of the following:

If a portion of your monthly mortgage payment included your property taxes, you will now need to contact your local Town Tax Receiver so that you may be billed directly for all future property tax statements.

Local property taxes are payable twice a year: on or before January 10th and on or before May 31st. Failure to make payments in a timely fashion could result in a penalty.

Please contact your local Town Tax Receiver with any questions regarding property tax payment.

Babylon Town Receiver of Taxes
200 East Sunrise Highway
North Lindenhurst, N.Y. 11757
(631) 957-3004

Brookhaven Town Receiver of Taxes
One Independence Hill
Farmingville, N.Y. 11738
(631) 451-9009

East Hampton Town Receiver of Taxes
300 Pantigo Place
East Hampton, N.Y. 11937
(631) 324-2770

Huntington Town Receiver of Taxes
100 Main Street
Huntington, N.Y. 11743
(631) 351-3217

Islip Town Receiver of Taxes
40 Nassau Avenue
Islip, N.Y. 11751
(631) 224-5580

Riverhead Town Receiver of Taxes
200 Howell Avenue
Riverhead, N.Y. 11901
(631) 727-3200

Shelter Island Town Receiver of Taxes
Shelter Island Town Hall
Shelter Island, N.Y. 11964
(631) 749-3338

Smithtown Town Receiver of Taxes
99 West Main Street
Smithtown, N.Y. 11787
(631) 360-7610

Southampton Town Receiver of Taxes
116 Hampton Road
Southampton, N.Y. 11968
(631) 283-6514

Southold Town Receiver of Taxes
53095 Main Street
Southold, N.Y. 11971
(631) 765-1803

Sincerely,

Judith A. Pascale

Judith A. Pascale
Suffolk County Clerk

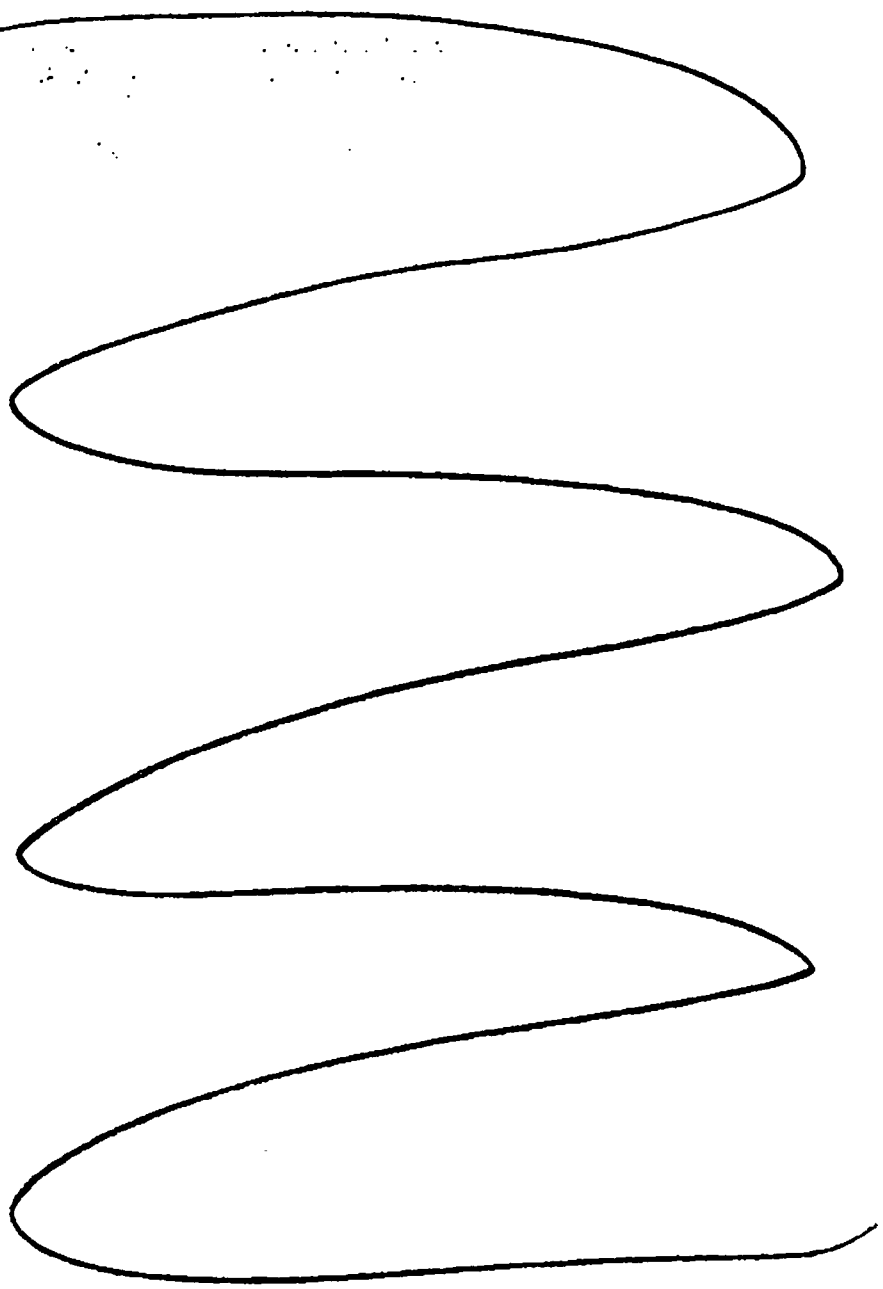
dw
2/99

Doc ID: 14003310

PTS
R SMI A
05-FEB-14

Tax Maps

District	Secton	Block	Lot	School District	Sub Division Name
0800	04000	0200	013003		
0800	04000	0200	013004		
0800	04000	0200	015000	SMITHTOWN	



Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 26th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District:
0800

Section:
040.00

Block:
02.00

Lots:
015.000

13.003 f/k/a
013.001

13.004 f/k/a
013.002

County:
Suffolk

SAID PREMISES being known as Route 25A, Smithtown, New York (as to Lot 13.003 f/k/a 013.001) and Mills Pond Road, Smithtown, New York (as to Lots 015.000 and 13.004 f/k/a 013.002).

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Flowerfield Bulb Farm, Incorporated, dated June 28, 1951, and recorded on July 7, 1951 in the Suffolk County Clerk's Office in Liber 3235, at Page 571.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 20th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6128920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)
On the Day of , 200 , before me, the undersigned, personally appeared
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOTS: 015.000, 13.003 F/K/A 013.001 & 13.004 F/K/A 013.002

COUNTY: SUFFOLK

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800-040.00-02.00-013.003)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365.15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

ALSO EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York, more particularly bounded and described as follows:

BEGINNING at a point on the northeasterly side of Mills Pond Road, distant 143.50 feet southeasterly from the corner formed by the intersection of the southeasterly side of North Country Road, (S.R. 25A) with the northeasterly side of Mills Pond Road;

RUNNING THENCE North 33 degrees 27 minutes 20 seconds East, 264.67 feet;

THENCE North 83 degrees 35 minutes 38 seconds East, 72.05 feet;

THENCE North 89 degrees 26 minutes 45 seconds East, 518.47 feet;

THENCE South 44 degrees 52 minutes 58 seconds East, 297.48 feet;

THENCE South 00 degrees 35 minutes 22 seconds East, 276.39 feet;

THENCE South 75 degrees 40 minutes 36 seconds West, 240.23 feet;

THENCE South 17 degrees 05 minutes 30 seconds East, 222.36 feet;

THENCE South 76 degrees 20 minutes 34 seconds West, 320.78 feet;

THENCE North 73 degrees 37 minutes 29 seconds West, 123.65 feet to the

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

northeasterly side of Mills Pond Road;

THENCE along the northeasterly side of Mills Pond Road the following three (3) courses and distances:

1. North 20 degrees 23 minutes 40 seconds West, 169.85 feet;
2. North 33 degrees 48 minutes 40 seconds West, 378.23 feet;
3. North 41 degrees 15 minutes 40 seconds West, 123.78 feet to the POINT OR PLACE OF BEGINNING.

(0800-040.00-02.00-015.000)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York; more particularly bounded and described as follows:

BEGINNING at a locust stake set in the southeasterly side of North Country Road at the northerly corner of the land now or formerly of Louise Heisler and which said point of beginning is distant 568.76 feet northeasterly from the corner formed by the intersection of the southeasterly side of North Country Road with the northeasterly side of Mills Pond Road; and

RUNNING THENCE along the said southwesterly side of North Country Road the following courses and distances:
North 35 degrees 33 minutes 40 seconds East 790.80 feet;
North 38 degrees 50 minutes 30 seconds East 178.77 feet;
North 45 degrees 48 minutes East 272.39 feet;
North 54 degrees 24 minutes East 321.35 feet;
North 60 degrees 51 minutes 50 seconds East 412.47 feet; and
North 43 degrees 20 minutes 40 seconds East 192.72 feet to a locust stake and the land now or formerly of Anna S. Knudsen; and

RUNNING THENCE along said last mentioned land South 34 degrees 06 minutes 20 seconds East 416.48 feet to a cement monument said in the northwesterly side of the land of the Long Island Railroad;

RUNNING THENCE along said land of Long Island Railroad South 19 degrees 18 minutes West 353.79 feet to a cement monument, and the land of John Lewis Childs, Inc.;

RUNNING THENCE along last said mentioned land the following courses and distances:
South 69 degrees 46 minutes 40 seconds West 56.15 feet to a locust stake;
South 66 degrees 31 minutes 20 seconds West 100.38 feet to a locust stake;
South 60 degrees 40 minutes 10 seconds West 41.34 feet to a locust stake;
South 44 degrees 57 minutes 50 seconds West 753.12 feet to a locust stake;
South 14 degrees 21 minutes 30 seconds East 64.68 feet;
South 23 degrees 24 minutes East 48.17 feet;
South 28 degrees 09 minutes 50 seconds East 89.67 feet to a locust stake;
South 67 degrees 06 minutes 10 seconds West 34.82 feet to a locust stake;
South 74 degrees 08 minutes 30 seconds West 397.65 feet to a locust stake; and
South 74 degrees 13 minutes 50 seconds West 342.64 feet to a locust stake, and the land now or formerly of Louise Heisler;

THENCE along said last mentioned land North 53 degrees 20 minutes 30 seconds West 321.62 feet to a locust stake set in the southeasterly side of North Country Road at the point or place of BEGINNING.

SCHEDULE A (cont'd)

(0800-040.00-02.00-013.001 and 0800-040.00-02.00-013.002)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365. 15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

GYRODYNE PROPERTY
1 FLOWERFIELD
SAINT JAMES, NY 11780

Inquiry Number: 4913802.12
APRIL 25, 2017

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

ROUTE 25A
SAINT JAMES, NY 11780

RESEARCH SOURCE

Source 1: SUFFOLK COUNTY RECORDER OF DEEDS

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GSD FLOWERFIELD LLC
Title received from:	GYRODYNE COMPANY OF AMERICA, INC.
Date Executed:	12/26/2013
Date Recorded:	02/19/2014
Book:	12764
Page:	57
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	AS RECORDED IN THE DEED BELOW
Current Owner:	GSD FLOWERFIELD LLC
Property Identifiers:	0800-040-00-02-00-014-000
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

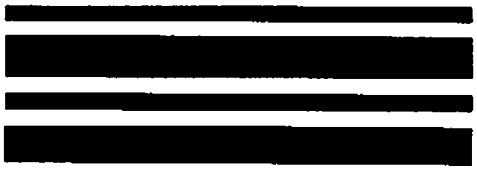
EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
1st Party:	
2nd Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

EDR Environmental Lien and AUL Search

DEED EXHIBIT



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

Type of Instrument: DEED
Number of Pages: 4
Receipt Number : 14-0019420
TRANSFER TAX NUMBER: 13-18930

Recorded: 02/19/2014
At: 03:40:54 PM

LIBER: D00012764
PAGE: 057

District:	Section:	Block:	Lot:
0800	040.00	02.00	014.000

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: $0.00

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$20.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$60.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$380.00	

TRANSFER TAX NUMBER: 13-18930

THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 4

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 19 03:40:54 PM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L D00012764
P 057
DT# 13-18930

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee		Mortgage Amt.	
Handling	5.00	1. Basic Tax	
TP-584		2. Additional Tax	
Notation		Sub Total	
EA-52 17 (County)	Sub Total	Spec./Assit. or Spec. /Add.	
EA-5217 (State)		TOT. MTG. TAX	
R.P.T.S.A.	60.00	Dual Town ___ Dual County ___ Held for Appointment	
Comm. of Ed.	5.00	Transfer Tax	Ø
Affidavit		Mansion Tax	
Certified Copy			
NYS Surcharge	15.00		
Other	Sub Total		
	Grand Total 380.- Vacant		

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES ____ or NO ____
If NO, see appropriate tax clause on page # ____ of this instrument.

4 Dist. 080 14003294 0800 04000 0200 014000

Real Property Tax Service Agency Verification: PTS R SMI A 05-FEB-14

5 Community Preservation Fund

Consideration Amount $ ____

CPF Tax Due $ ____

Improved ____
Vacant Land ____
TD ____
TD ____
TD ____

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15395

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached by: Bargain and Sale Deed made
(SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

TO

GSD Flowerfield, LLC

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.
In the TOWN of Smithtown
In the VILLAGE
or HAMLET of ____

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

(over)

IMPORTANT NOTICE

If the document you've just recorded is your SATISFACTION OF MORTGAGE, please be aware of the following:

If a portion of your monthly mortgage payment included your property taxes, *you will now need to contact your local Town Tax Receiver so that you may be billed directly for all future property tax statements.

Local property taxes are payable twice a year: on or before January 10th and on or before May 31st. Failure to make payments in a timely fashion could result in a penalty.

Please contact your local Town Tax Receiver with any questions regarding property tax payment.

Babylon Town Receiver of Taxes
200 East Sunrise Highway
North Lindenhurst, N.Y. 11757
(631) 957-3004

Brookhaven Town Receiver of Taxes
One Independence Hill
Farmingville, N.Y. 11738
(631) 451-9009

East Hampton Town Receiver of Taxes
300 Pantigo Place
East Hampton, N.Y. 11937
(631) 324-2770

Huntington Town Receiver of Taxes
100 Main Street
Huntington, N.Y. 11743
(631) 351-3217

Islip Town Receiver of Taxes
40 Nassau Avenue
Islip, N.Y. 11751
(631) 224-5580

Riverhead Town Receiver of Taxes
200 Howell Avenue
Riverhead, N.Y. 11901
(631) 727-3200

Shelter Island Town Receiver of Taxes
Shelter Island Town Hall
Shelter Island, N.Y. 11964
(631) 749-3338

Smithtown Town Receiver of Taxes
99 West Main Street
Smithtown, N.Y. 11787
(631) 360-7610

Southampton Town Receiver of Taxes
116 Hampton Road
Southampton, N.Y. 11968
(631) 283-6514

Southold Town Receiver of Taxes
53095 Main Street
Southold, N.Y. 11971
(631) 765-1803

Sincerely,

Judith A. Pascale

Judith A. Pascale
Suffolk County Clerk

dw
2/99

Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 19th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District: 0800

Section: 040.00

Block: 02.00

Lot: 014.000

County: Suffolk

SAID PREMISES being known as Route 25A, Smithtown, New York.

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Frank Heisler and Louise Heisler, his wife, dated November 4, 1966, and recorded on November 10, 1966 in the Suffolk County Clerk's Office in Liber 6067, at Page 62.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 20th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6126920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)
On the Day of , 200 , before me, the undersigned, personally appeared
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOT: 014.000
COUNTY: SUFFOLK

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800-040.00-02.00-014.000)

ALL that certain plot, piece or parcel of land, situate, lying and being at St. James, in the Town of Smithtown, Suffolk County, New York, bounded and described as follows:

BEGINNING at a point on in the center line of the main highway leading from Stony Brook to Smithtown, where the same is intersected by the northerly line of lands, now or once owned by John Lewis Childs, Inc., prolonged westerly to the center line of said highway, and from said point of beginning running North 33 degrees 28 minutes East 154.86 feet along the center line of said highway to a point;

THENCE South 53 degrees 20 minutes 30 seconds East 346.37 feet;

THENCE South 74 degrees 13 minutes 50 seconds West 96.93 feet;

THENCE South 73 degrees 51 minutes 40 seconds West 250.14 feet;

THENCE North 53 degrees 20 minutes 30 seconds West 125.10 feet to the center line of said highway above described, at the point or place of BEGINNING.

GYRODYNE PROPERTY
1 FLOWERFIELD
SAINT JAMES, NY 11780

Inquiry Number: 4913802.12
APRIL 25, 2017

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

199 MILLS POND ROAD
SAINT JAMES, NY 11780

RESEARCH SOURCE

Source 1: SUFFOLK COUNTY RECORDER OF DEEDS

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GSD FLOWERFIELD LLC
Title received from:	GYRODYNE COMPANY OF AMERICA, INC.
Date Executed:	12/26/2013
Date Recorded:	02/19/2014
Book:	12764
Page:	22
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	AS RECORDED IN THE DEED BELOW
Current Owner:	GSD FLOWERFIELD LLC
Property Identifiers:	0800-040-00-02-00-015-000
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

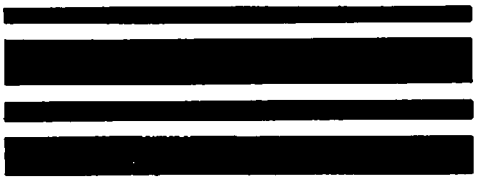
EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
1st Party:	
2nd Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

EDR Environmental Lien and AUL Search

DEED EXHIBIT



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

Type of Instrument: DEED **Recorded: 02/19/2014**
Number of Pages: 11 **At: 02:57:07 PM**
Receipt Number : 14-0019328
TRANSFER TAX NUMBER: 13-18909 **LIBER: D00012764**
PAGE: 022

District:	Section:	Block:	Lot:
0800	040.00	02.00	013.003

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: $0.00

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$55.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$180.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$535.00	

TRANSFER TAX NUMBER: 13-18909

THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 11

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 19 02:57:07 PM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L 000012764
P 022
DT# 13-18909

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee	55 -		
Handling	20 00		
TP-584	5 -		
Notation			
EA-52 17 (County)	5 -	Sub Total	85
EA-52 17 (State)	250 -		
R.P.T.S.A. +2	180 00		
Comm. of Ed.	5. 00		
Affidavit			
Certified Copy			
NYS Surcharge	15. 00	Sub Total	450
Other		Grand Total	535 - DHM

Mortgage Amt. ____
1. Basic Tax ____
2. Additional Tax ____
Sub Total ____
Spec./Assit. or Spec. /Add. ____
TOT. MTG. TAX ____
Dual Town ____ Dual County ____
Held for Appointment ____
Transfer Tax 0
Mansion Tax ____

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES ____ or NO ____
If NO, see appropriate tax clause on page # ____ of this instrument.
400 12/26/2013

4 Dist. 0800 14003310

Real Property Tax Service Agency Verification

PTS R SMI A 05-FEB-14

See Attached

5 Community Preservation Fund
Consideration Amount $ 0
CPF Tax Due $ ____

TP584.1

Improved ____
Vacant Land ____
TD ____
TD ____
TD ____

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15392

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached by: Bargain and Sale Deed made
(SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

TO
GSD Flowerfield, LLC

In the TOWN of Smithtown
In the VILLAGE
or HAMLET of ____

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

(over)

IMPORTANT NOTICE

If the document you've just recorded is your SATISFACTION OF MORTGAGE, please be aware of the following:

If a portion of your monthly mortgage payment included your property taxes, you will now need to contact your local Town Tax Receiver so that you may be billed directly for all future property tax statements.

Local property taxes are payable twice a year: on or before January 10th and on or before May 31st. Failure to make payments in a timely fashion could result in a penalty.

Please contact your local Town Tax Receiver with any questions regarding property tax payment.

Babylon Town Receiver of Taxes
200 East Sunrise Highway
North Lindenhurst, N.Y. 11757
(631) 957-3004

Brookhaven Town Receiver of Taxes
One Independence Hill
Farmingville, N.Y. 11738
(631) 451-9009

East Hampton Town Receiver of Taxes
300 Pantigo Place
East Hampton, N.Y. 11937
(631) 324-2770

Huntington Town Receiver of Taxes
100 Main Street
Huntington, N.Y. 11743
(631) 351-3217

Islip Town Receiver of Taxes
40 Nassau Avenue
Islip, N.Y. 11751
(631) 224-5580

Riverhead Town Receiver of Taxes
200 Howell Avenue
Riverhead, N.Y. 11901
(631) 727-3200

Shelter Island Town Receiver of Taxes
Shelter Island Town Hall
Shelter Island, N.Y. 11964
(631) 749-3338

Smithtown Town Receiver of Taxes
99 West Main Street
Smithtown, N.Y. 11787
(631) 360-7610

Southampton Town Receiver of Taxes
116 Hampton Road
Southampton, N.Y. 11968
(631) 283-6514

Southold Town Receiver of Taxes
53095 Main Street
Southold, N.Y. 11971
(631) 765-1803

Sincerely,

Judith A. Pascale

Judith A. Pascale
Suffolk County Clerk

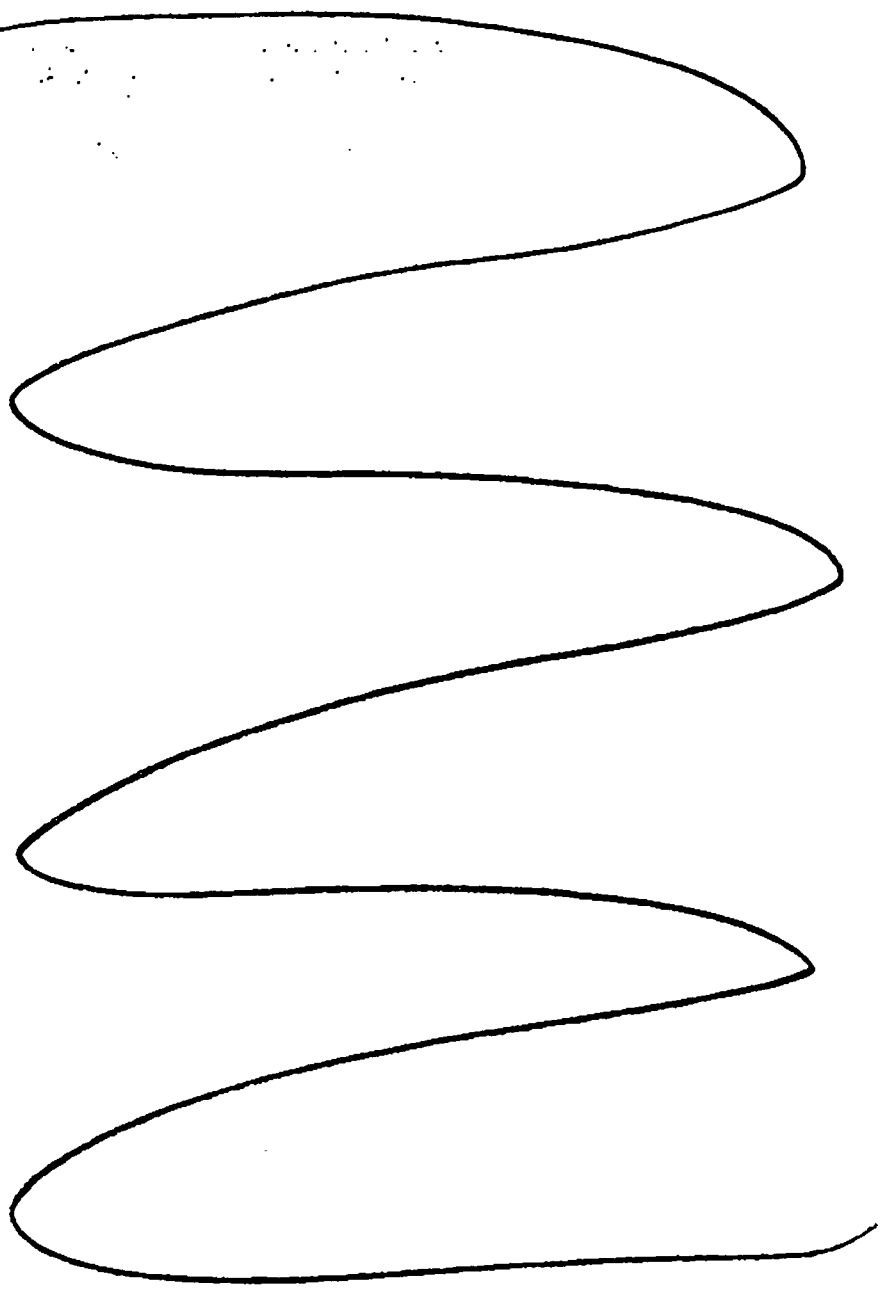
dw
2/99

Doc ID: 14003310

PTS
R SMI A
05-FEB-14

Tax Maps

District	Secton	Block	Lot	School District	Sub Division Name
0800	04000	0200	013003		
0800	04000	0200	013004		
0800	04000	0200	015000	SMITHTOWN	



Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 26th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District:
0800

Section:
040.00

Block:
02.00

Lots:
015.000

13.003 f/k/a
013.001

13.004 f/k/a
013.002

County:
Suffolk

SAID PREMISES being known as Route 25A, Smithtown, New York (as to Lot 13.003 f/k/a 013.001) and Mills Pond Road, Smithtown, New York (as to Lots 015.000 and 13.004 f/k/a 013.002).

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Flowerfield Bulb Farm, Incorporated, dated June 28, 1951, and recorded on July 7, 1951 in the Suffolk County Clerk's Office in Liber 3235, at Page 571.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 20th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6128920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)
On the Day of , 200 , before me, the undersigned, personally appeared
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOTS: 015.000, 13.003 F/K/A 013.001 & 13.004 F/K/A 013.002

COUNTY: SUFFOLK

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800-040.00-02.00-013.003)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365.15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

ALSO EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York, more particularly bounded and described as follows:

BEGINNING at a point on the northeasterly side of Mills Pond Road, distant 143.50 feet southeasterly from the corner formed by the intersection of the southeasterly side of North Country Road, (S.R. 25A) with the northeasterly side of Mills Pond Road;

RUNNING THENCE North 33 degrees 27 minutes 20 seconds East, 264.67 feet;

THENCE North 83 degrees 35 minutes 38 seconds East, 72.05 feet;

THENCE North 89 degrees 26 minutes 45 seconds East, 518.47 feet;

THENCE South 44 degrees 52 minutes 58 seconds East, 297.48 feet;

THENCE South 00 degrees 35 minutes 22 seconds East, 276.39 feet;

THENCE South 75 degrees 40 minutes 36 seconds West, 240.23 feet;

THENCE South 17 degrees 05 minutes 30 seconds East, 222.36 feet;

THENCE South 76 degrees 20 minutes 34 seconds West, 320.78 feet;

THENCE North 73 degrees 37 minutes 29 seconds West, 123.65 feet to the

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

northeasterly side of Mills Pond Road;

THENCE along the northeasterly side of Mills Pond Road the following three (3) courses and distances:

1. North 20 degrees 23 minutes 40 seconds West, 169.85 feet;
2. North 33 degrees 48 minutes 40 seconds West, 378.23 feet;
3. North 41 degrees 15 minutes 40 seconds West, 123.78 feet to the POINT OR PLACE OF BEGINNING.

(0800-040.00-02.00-015.000)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York; more particularly bounded and described as follows:

BEGINNING at a locust stake set in the southeasterly side of North Country Road at the northerly corner of the land now or formerly of Louise Heisler and which said point of beginning is distant 568.76 feet northeasterly from the corner formed by the intersection of the southeasterly side of North Country Road with the northeasterly side of Mills Pond Road; and

RUNNING THENCE along the said southwesterly side of North Country Road the following courses and distances:
North 35 degrees 33 minutes 40 seconds East 790.80 feet;
North 38 degrees 50 minutes 30 seconds East 178.77 feet;
North 45 degrees 48 minutes East 272.39 feet;
North 54 degrees 24 minutes East 321.35 feet;
North 60 degrees 51 minutes 50 seconds East 412.47 feet; and
North 43 degrees 20 minutes 40 seconds East 192.72 feet to a locust stake and the land now or formerly of Anna S. Knudsen; and

RUNNING THENCE along said last mentioned land South 34 degrees 06 minutes 20 seconds East 416.48 feet to a cement monument said in the northwesterly side of the land of the Long Island Railroad;

RUNNING THENCE along said land of Long Island Railroad South 19 degrees 18 minutes West 353.79 feet to a cement monument, and the land of John Lewis Childs, Inc.;

RUNNING THENCE along last said mentioned land the following courses and distances:
South 69 degrees 46 minutes 40 seconds West 56.15 feet to a locust stake;
South 66 degrees 31 minutes 20 seconds West 100.38 feet to a locust stake;
South 60 degrees 40 minutes 10 seconds West 41.34 feet to a locust stake;
South 44 degrees 57 minutes 50 seconds West 753.12 feet to a locust stake;
South 14 degrees 21 minutes 30 seconds East 64.68 feet;
South 23 degrees 24 minutes East 48.17 feet;
South 28 degrees 09 minutes 50 seconds East 89.67 feet to a locust stake;
South 67 degrees 06 minutes 10 seconds West 34.82 feet to a locust stake;
South 74 degrees 08 minutes 30 seconds West 397.65 feet to a locust stake; and
South 74 degrees 13 minutes 50 seconds West 342.64 feet to a locust stake, and the land now or formerly of Louise Heisler;

THENCE along said last mentioned land North 53 degrees 20 minutes 30 seconds West 321.62 feet to a locust stake set in the southeasterly side of North Country Road at the point or place of BEGINNING.

SCHEDULE A (cont'd)

(0800-040.00-02.00-013.001 and 0800-040.00-02.00-013.002)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365. 15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

CERTIFICATE OF TITLE

First American Title Insurance Company

Title No. NCS-823835-DC72

First American Title Insurance Company ("the Company") certifies to the "proposed insured(s)" listed herein that an examination of title to the premises described in Schedule A has been made in accordance with its usual procedure and agrees to issue its standard form of title insurance policy authorized by the Insurance Department of the State of New York, in the amount set forth herein, insuring the interest set forth herein, and the marketability thereof, in the premises described in Schedule A, after the closing of the transaction in conformance with the requirements and procedures approved by the Company and after the payment of the premium and fees associated herewith excepting (a) all loss or damage by reason of the estates, interests, defects, objections, liens, encumbrances and other matters set forth herein that are not disposed of to the satisfaction of the Company prior to such closing or issuance of the policy (b) any question or objection coming to the attention of the Company before the date of closing, or if there be no closing, before the issuance of the policy.

This Agreement to insure shall terminate (1) if the prospective insured, his or her attorney or agent makes any untrue statement with respect to any material fact or suppresses or fails to disclose any material fact or if any untrue answers are given to material inquires by or on behalf of the Company; or (2) upon the issuance of title insurance in accordance herewith. In the event that this Certificate is endorsed and redated by an authorized representative of the Company after the closing of the transaction and payment of the premium and fees associated herewith, such "redated" Certificate shall serve as evidence of the title insurance issued until such time as a policy of title insurance is delivered to the insured. Any claim made under the redated Certificate shall be restricted to the conditions, stipulations and exclusions from coverage of the standard form of title insurance policy issued by the Company.

THIS REPORT IS NOT A TITLE INSURANCE POLICY! PLEASE READ IT CAREFULLY.
THE REPORT MAY SET FORTH EXCLUSIONS UNDER THE TITLE INSURANCE POLICY AND MAY NOT LIST ALL LIENS, DEFECTS, AND ENCUMBRANCES AFFECTING TITLE TO THE PROPERTY.
YOU SHOULD CONSIDER THIS INFORMATION CAREFULLY.

First American Title Insurance Company

Dennis J. Gilmore
President

Jeffrey S. Robinson
Secretary

CLOSING REQUIREMENTS

1. CLOSING DATE: In order to facilitate the closing of title, please notify the closing department at least 48 hours prior to the closing, of the date and place of closing, so that searches may be continued.

2. PROOF OF IDENTITY: Identity of all persons executing the papers delivered on the closing must be established to the satisfaction of the Company.

3. POWER OF ATTORNEY: If any of the closing instruments are to be executed pursuant to a Power of Attorney, a copy of such Power should be submitted to the Company prior to closing. THE IDENTITY OF THE PRINCIPAL EXECUTING THE POWER AND THE CONTINUED EFFECTIVENESS OF THE POWER MUST BE ESTABLISHED TO THE SATISFACTION OF THE COMPANY. The Power must be in recordable form.

4. CLOSING INSTRUMENTS: If any of the closing instruments will be other than commonly used forms or contain unusual provisions, the closing can be simplified and expedited by furnishing the Company with copies of the proposed documents in advance of closing.

5. LIEN LAW CLAUSE: Deeds and mortgages must contain the covenant required by Section 13 of the Lien Law. The covenant is not required in deeds from referees or other persons appointed by a court for the sole purpose of selling property.

6. REFERENCE TO SURVEYS AND MAPS: Closing instruments should make no reference to surveys or maps unless such surveys or maps are on file.

7. INTERMEDIARY DEEDS: In the event an intermediary will come into title at closing, other than the ultimate insured, the name of such party must be furnished to the Company in advance of closing so that appropriate searches can be made and relevant exceptions considered.

MISCELLANEOUS PROVISIONS

1. THIS CERTIFICATE IS INTENDED FOR LAWYERS ONLY. YOUR LAWYER SHOULD BE CONSULTED BEFORE TAKING ANY ACTION BASED UPON THE CONTENTS HEREOF.

2. THE COMPANY'S CLOSER MAY NOT ACT AS LEGAL ADVISOR FOR ANY OF THE PARTIES OR DRAW LEGAL INSTRUMENTS FOR THEM. THE CLOSER IS PERMITTED TO BE OF ASSISTANCE ONLY TO AN ATTORNEY.

3. Our policy will except from coverage any state of facts which an accurate survey might show, unless survey coverage is ordered. When such coverage is ordered, this certificate will set forth the specific survey exceptions which we will include in our policy. Whenever the word "trim" is used in any survey exceptions from coverage, it shall be deemed to include, roof cornices, mouldings, belt courses, water tables, keystones, pilasters, portico, balcony all of which project beyond the street line.

4. Our examination of the title includes a search for any unexpired financing statements which affect fixtures and which have been properly filed and indexed pursuant to the Uniform Commercial Code in the office of the recording officer of the county in which the real property lies. No search has been made for other financing statements because we do not insure title to personal property. We will on request, in connection with the issuance of a title insurance policy, prepare such search for an additional charge. Our liability in connection with such search is limited to $1,000.00.

5. This company must be notified immediately of the recording or the filing, after the date of this certificate, of any instrument and of the discharge or other disposition of any mortgage, judgment, lien or any other matter set forth in this certificate and of any change in the transaction to be insured or the parties thereto. The continuation will not otherwise disclose the disposition of any lien.

6. If affirmative insurance is desired regarding any of the restrictive covenants with respect to new construction or alterations, please request such insurance in advance of closing as this request should not be considered at closing.

7. If it is discovered that there is additional property or an appurtenant easement for which insurance is desired, please contact the Company in advance of closing so that an appropriate title search may be made. In some cases, our rate manual provides for an additional charge for such insurance.

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Proposed Insured		Title No.:	NCS-823835-DC72
Purchaser:		Effective Date:	11/02/2016
Mortgagee:		Redated:	

Amount of Insurance:
Fee:
Mortgage:

THIS COMPANY CERTIFIES that a good and marketable title to the premises described in Schedule "A", subject to the liens, encumbrances and other matters, if any, set forth in this certificate may be conveyed and or mortgaged by:

GSD FLOWERFIELD, LLC, a New York limited liability company

Which acquired title by four deeds, (1) from Gyrodyne Company of America, Inc. dated 12/26/2013 recorded 2/19/2014 in Liber 12764 Cp 22 (see post-as to section 040.00 block 2 lots 13.3 and 15 and section 272.00 block 2 lot 8), (2) from Gyrodyne Company of America, Inc. dated 12/26/2013 recorded 2/19/2014 in Liber 12764 Cp 57 (see post- affects Block 2 lot 14), (3) from Gyrodyne Company of America, Inc. dated 12/26/2013 recorded 2/27/2014 in Liber 12765 Cp 80 (see post-as to block 2 lot 4), and (4) from Gyrodyne Company of America, Inc., as successor by law to Flowerfield Realty Inc., D/B/A GSAT dated 12/26/2013 recorded 2/19/2014 in Liber 12764 Cp 33 (see post-as to block 5 lots 42.3 and 42.4)

Premises described in Schedule "A" are known as:

Address:	Mills Pond Road, Saint James, New York		
County:	Suffolk	Town:	Smithtown Brookhaven
District:	0800 0800 0200		
Section:	040.00 039.00 272.00		
Block:	02.00 05.00 02.00		
Lot:	013.003, 015.000, 014.000, 004.000 042.004, 042.003 008.000		

For any Title Clearance Questions
on this Report please call
Daniel Lopez
(202)530-1200

RJW/alr

Title No. NCS-823835-DC72

SCHEDULE "A"

(0800-040.00-02.00-013.003)

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE TOWN OF SMITHTOWN, COUNTY OF SUFFOLK AND STATE OF NEW YORK MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE EASTERLY LINE OF MILLS POND ROAD AT THE NORTHWESTERLY CORNER OF LAND NOW OR FORMERLY OF ANNIE E. NEWTON, THENCE ALONG THE SAID EASTERLY LINE OF MILLS POND ROAD NORTH 01° 51' 20" WEST 365.15 FEET TO A STAKE AT THE SOUTHWESTERLY CORNER OF LAND NOW OR FORMERLY OF ROBERT ELDERKIN;

RUNNING THENCE ALONG THE SOUTHERLY LINE OF SAID LAND OF ROBERT ELDERKIN NORTH 82° 40' 10" EAST 210.08 FEET;

THENCE ALONG THE EASTERLY LINE OF LAND OF SAID ROBERT ELDERKIN NORTH 03° 00' 40" EAST 204.48 FEET TO A MONUMENT;

THENCE ALONG THE EASTERLY LINE OF LAND NOW OR FORMERLY OF JAMES J. AND LOUISE MCKETRIC NORTH 02° 18' 20" WEST 313 FEET TO A MONUMENT;

THENCE ALONG THE NORTHERLY LINE OF LAND OF SAID JAMES J. AND LOUISE MCKETRICK SOUTH 75° 57' 30" WEST 227.16 FEET TO A STAKE IN THE EASTERLY LINE OF MILLS POND ROAD;

THENCE ALONG THE EASTERLY LINE OF SAID MILLS POND ROAD THE FOLLOWING COURSES AND DISTANCES:

NORTH 01° 24' WEST 39.72 FEET;
NORTH 20° 23' 40" WEST 246.21 FEET;
NORTH 33° 48' 40" WEST 378.23 FEET;

THENCE NORTH 41° 15' 40" WEST 266.78 FEET TO A MONUMENT AT THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY LINE OF SAID MILLS ROAD POND WITH THE SOUTHEASTERLY LINE OF NORTH COUNTRY ROAD;

THENCE ALONG THE SAID SOUTHEASTERLY LINE OF NORTH COUNTRY ROAD NORTH 32° 27' 20" EAST 292.34 FEET TO A CORNER OF LAND NOW OR FORMERLY OF DUBOISE SMITH;

THENCE ALONG THE LAND OF SAID DUBOIS SMITH THE FOLLOWING COURSES AND DISTANCES:

SOUTH 53° 19' EAST 100.38 FEET;
NORTH 73° 53' 10" EAST 250.14 FEET;
NORTH 74° 15' 20" EAST 439.56 FEET;
NORTH 74° 10' EAST 397.65 FEET;
NORTH 67° 07' 40" EAST 34.82 FEET;
NORTH 28° 08' 20" WEST 89.67 FEET;
NORTH 23° 22' 30" WEST 48.17 FEET;
NORTH 14° 20' WEST 64.68 FEET;
NORTH 44° 59' 20" EAST 753.12 FEET;
NORTH 60° 41' 40" EAST 41.34 FEET;
NORTH 66° 32' 30" EAST 100.38 FEET;
NORTH 69° 48' 10" EAST 56.15 FEET TO THE NORTHWESTERLY SIDE OF LAND OF THE LONG ISLAND RAIL

ROAD;

THENCE ALONG THE SAID LAND OF SAID LONG ISLAND RAIL ROAD SOUTH 19° 19' 30" WEST 2913.30 FEET TO A MONUMENT;

THENCE CONTINUING ALONG LAND OF SAID RAILROAD, FOLLOWING A CURVED LINE BEARING TO THE RIGHT WHOSE RADIUS IS 13.99 FEET, A DISTANCE OF 136.20 FEET TO A POINT AT THE NORTHEASTERLY CORNER OF SAID LAND OF ANNIE E. NEWTON;

THENCE ALONG THE NORTHERLY LINE OF SAID LAND OF ANNIE E. NEWTON SOUTH 82° 43' 50" WEST 444.70 FEET TO THE POINT OR PLACE OF BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING AT A CONCRETE MONUMENT SET IN THE EASTERLY LINE OF MILLS POND ROAD WHERE THE SAME IS INTERSECTED BY THE SOUTHERLY BOUNDARY LINE OF LAND OF ROBERT ELDERKIN;

THENCE FROM SAID POINT OF BEGINNING NORTH 82° 40' 10" EAST ALONG LAST MENTIONED LAND, 210.08 FEET TO A CONCRETE MONUMENT AND LAND OF JAMES D. MOONEY;

THENCE SOUTHERLY AND WESTERLY ALONG THE LAST MENTIONED LAND THE FOLLOWING TWO COURSES AND DISTANCES:

SOUTH 03° 00' 40" WEST, 110.52 FEET TO A CONCRETE MONUMENT;

SOUTH 82° 40' 10" WEST, 200.65 FEET TO A CONCRETE MONUMENT AND THE EASTERLY LINE OF MILLS POND ROAD;

THENCE NORTH 01° 51' 20" WEST ALONG THE EASTERLY LINE OF MILLS POND ROAD 109.20 FEET TO THE POINT AND PLACE OF BEGINNING.

ALSO EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE TOWN OF SMITHTOWN, COUNTY OF SUFFOLK AND STATE OF NEW YORK, MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHEASTERLY SIDE OF MILLS POND ROAD, DISTANT 143.50 FEET SOUTHEASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHEASTERLY SIDE OF NORTH COUNTRY ROAD, (S.R. 25A) WITH THE NORTHEASTERLY SIDE OF MILLS POND ROAD;

RUNNING THENCE NORTH 33° 27' 20" EAST, 264.67 FEET;

THENCE NORTH 83° 35' 38" EAST, 72.05 FEET;

THENCE NORTH 89° 26' 45" EAST, 518.47 FEET;

THENCE SOUTH 44° 52' 58" EAST, 297.48 FEET;

THENCE SOUTH 00° 35' 22" EAST, 276.39 FEET;

THENCE SOUTH 75° 40' 36" WEST, 240.23 FEET;

THENCE SOUTH 17° 05' 30" EAST, 222.36 FEET;

THENCE SOUTH 76° 20' 34" WEST, 320.78 FEET;

THENCE NORTH 73° 37' 29" WEST, 123.65 FEET TO THE NORTHEASTERLY SIDE OF MILLS POND ROAD;

THENCE ALONG THE NORTHEASTERLY SIDE OF MILLS POND ROAD THE FOLLOWING THREE (3) COURSES AND DISTANCES:

1. NORTH 20° 23' 40" WEST, 169.85 FEET;
2. NORTH 33° 48' 40" WEST, 378.23 FEET;
3. NORTH 41° 15' 40" WEST, 123.78 FEET TO THE POINT OR PLACE OF BEGINNING.

ALSO EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF CONVEYED TO LONG ISLAND LIGHTING COMPANY BY DEED DATED 3/15/1961 AND RECORDED 3/21/1961 IN LIBER 4962 CP 479 BEING SHOWN AND DESIGNATED AS DISTRICT 0800 SECTION 040.00 BLOCK 02.00 LOT 008.000 ON THE TAX MAP FOR THE COUNTY OF SUFFOLK.

(0800-040.00-02.00-015.000 AND 0200-272.00-02.00-008.000)

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE TOWN OF SMITHTOWN AND THE TOWN OF BROOKHAVEN, COUNTY OF SUFFOLK AND STATE OF NEW YORK, MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A LOCUST STAKE SET IN THE SOUTHEASTERLY SIDE OF NORTH COUNTRY ROAD AT THE NORTHERLY CORNER OF LAND NOW OR FORMERLY OF LOUISE HEISLER AND WHICH SAID POINT OF BEGINNING IS DISTANT 568.76 FEET NORTHEASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHEASTERLY SIDE OF NORTH COUNTRY ROAD WITH THE NORTHEASTERLY SIDE OF MILLS POND ROAD; AND

RUNNING THENCE ALONG THE SAID SOUTHWESTERLY SIDE OF NORTH COUNTRY ROAD THE FOLLOWING COURSES AND DISTANCES:

NORTH 35° 33' 40" EAST 790.80 FEET;
NORTH 38° 50' 30" EAST, 178.77 FEET;
NORTH 45° 48' EAST 272.39 FEET;
NORTH 54° 24' EAST 321.35 FEET;
NORTH 60° 51' 50" EAST 412.47 FEET; AND
NORTH 43° 40' 40" EAST 192.72 FEET TO A LOCUST STAKE AND THE LAND NOW OR FORMERLY OF ANNA S. KNUDSEN; AND

THENCE ALONG SAID LAST MENTIONED LAND SOUTH 34° 06' 20" EAST 416.48 FEET TO A CEMENT MONUMENT SET IN THE NORTHWESTERLY SIDE OF THE LAND OF THE LONG ISLAND RAIL ROAD;

THENCE ALONG SAID LAND OF LONG ISLAND RAIL ROAD SOUTH 19° 18' WEST 353.79 FEET TO A CEMENT MONUMENT, AND THE LAND OF JOHN LEWIS CHILDS, INC.;

THENCE ALONG LAST SAID MENTIONED LAND THE FOLLOWING COURSES AND DISTANCES:

SOUTH 69° 46' 40" WEST 56.15 FEET TO A LOCUST STAKE;
SOUTH 66° 31' 20" WEST 100.38 FEET TO A LOCUST STAKE;
SOUTH 60° 40' 10" WEST 41.34 FEET TO A LOCUST STAKE;
SOUTH 44° 57' 50" WEST 753.12 FEET TO A LOCUST STAKE;
SOUTH 14° 21' 30" EAST 64.68 FEET;
SOUTH 23° 24' EAST 48.17 FEET;
SOUTH 28° 09' 50" EAST 89.67 FEET TO A LOCUST STAKE;

SOUTH 67° 06' 10" WEST 34.82 FEET TO A LOCUST STAKE;
SOUTH 74° 08' 30" WEST 397.65 FEET TO A LOCUST STAKE; AND
SOUTH 74° 13' 50" WEST 342.64 FEET TO A LOCUST STAKE, AND THE LAND NOW OR FORMERLY OF LOUISE HEISLER;

THENCE ALONG SAID LAST MENTIONED LAND NORTH 53° 20' 30" WEST 321.62 FEET TO A LOCUST STAKE SET IN THE SOUTHEASTERLY SIDE OF NORTH COUNTRY ROAD AT THE POINT OR PLACE OF BEGINNING.

(0800-040.00-02.00-014.000)

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING AT ST. JAMES, IN THE TOWN OF SMITHTOWN, SUFFOLK COUNTY, NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE CENTER LINE OF THE MAIN HIGHWAY LEADING FROM STONY BROOK TO SMITHTOWN, WHERE THE SAME IS INTERSECTED BY THE NORTHERLY LINE OF LANDS, NOW OR ONCE OWNED BY JOHN LEWIS CHILDS, INC., PROLONGED WESTERLY TO THE CENTER LINE OF SAID HIGHWAY, AND FROM SAID POINT OF BEGINNING RUNNING NORTH 33° 28' EAST 154.86 FEET ALONG THE CENTER LINE OF SAID HIGHWAY TO A POINT;

THENCE SOUTH 53° 20' 30" EAST 346.37 FEET;

THENCE SOUTH 74° 13' 50" WEST 96.93 FEET;

THENCE SOUTH 73° 51' 40" WEST 250.14 FEET;

THENCE NORTH 53° 20" 30" WEST 125.10 FEET TO THE CENTER LINE OF SAID HIGHWAY ABOVE DESCRIBED, AT THE POINT OR PLACE OF BEGINNING.

(0800-040.00-02.00-004.000)

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE FLOWERFIELD, TOWN OF SMITHTOWN, SUFFOLK COUNTY, NEW YORK, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE EASTERLY SIDE OF MILLS POND ROAD, DISTANT 48.20 FEET FROM THE NORTH WEST CORNER OF LAND OF ELDERKIN, AS MEASURED ALONG SAID EASTERLY LINE OF MILLS POND ROAD;

RUNNING THENCE ALONG THE EASTERLY LINE OF MILLS POND ROAD NORTH 11° 02' 30" EAST 221.17 FEET TO A POINT;

THENCE NORTH 88° 19' 30" EAST ALONG LAND FORMERLY OF JOHN LEWIS CHILDS EST., 227.16 FEET TO A POINT;

THENCE SOUTH 10° 08' WEST ALONG LAND FORMERLY OF JOHN LEWIS CHILDS EST., 261.9 FEET TO A POINT;

THENCE WESTERLY ALONG LAND OF JAMES MCKETRICK AND LOUISE MCKETRICK TO THE EASTERLY SIDE OF MILLS POND ROAD, SAID POINT BEING THE POINT OR PLACE OF BEGINNING.

(0800-039.00-05.00-042.003 AND 0800-039.00-05.00-042.004)

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN ST. JAMES, TOWN OF SMITHTOWN, COUNTY OF SUFFOLK AND STATE OF NEW YORK, KNOWN AND DESIGNATED AS AND BY PART OF LOT NUMBERS 113, 114, 115 AND ALL OF 116 AS SHOWN ON A CERTAIN MAP ENTITLED, "MAP OF MILLS

POND ESTATES SECTION 3", AND FILED IN THE SUFFOLK COUNTY CLERK'S OFFICE ON 6/2/88 AS MAP NUMBER 8534.

BEGINNING AT A POINT ON THE WESTERLY SIDE OF ELDERWOOD DRIVE WEST AS SHOWN ON THE MAP OF MILLS POND SECTION 3 FILED JUNE 2, 1988 AS MAP NUMBER 8534. SAID POINT BEING 556.01 FEET, NORTHERLY FROM THE NORTHERLY END OF A CURVE CONNECTING THE NORTHERLY SIDE OF WELLWOOD ROAD WITH THE WESTERLY SIDE OF ELDERWOOD DRIVE WEST;

THENCE ALONG LOT 112 THE FOLLOWING 2 COURSES:

1. NORTH 63° 39' 48" WEST 75.00 FEET;
2. SOUTH 83° 16' 52" WEST 313.41 FEET TO THE WESTERLY SIDE OF MILLS POND ROAD;

THENCE ALONG MILLS POND ROAD NORTH 08° 52' 59" WEST 104.10 FEET TO A PROPOSED RECHARGE BASIN;

THENCE ALONG THE PROPOSED RECHARGE BASIN THE FOLLOWING 4 COURSES AND DISTANCES:

1. NORTH 81° 07' 00" EAST 115.00 FEET;
2. ALONG THE ARC OF A CIRCULAR CURVE WHOSE CENTER LIES TO THE NORTH HAVING A RADIUS OF 145.00 FEET AND AN ARC LENGTH OF 98.70 FEET;
3. THENCE NORTH 42° 07' 00" EAST 405.00 FEET;
4. THENCE NORTH 35° 23' 00" WEST 194.17 FEET TO THE SOUTHERLY SIDE OF THE LONG ISLAND RAIL ROAD;

THENCE EASTERLY ALONG THE RAILROAD, ALONG THE ARC OF A CIRCULAR CURVE WHOSE CENTER LINE LIES TO THE NORTH HAVING A RADIUS OF 1,465 AND AN ARC LENGTH OF 409.52 FEET TO LAND NOW OR FORMERLY OF GYRODYNE COMPANY OF AMERICA, INC.;

THENCE ALONG LAND OF GYRODYNE COMPANY SOUTH 11° 31' 30" EAST 500.84 FEET TO LOT 117 AS SHOWN ON A MAP OF MILLS POND SECTION 3;

THENCE ALONG LOT 117 THE FOLLOWING 3 COURSES:

1. SOUTHERLY ALONG THE ARC OF A CIRCULAR CURVE WHOSE CENTER LIES TO THE EAST HAVING A RADIUS OF 150.00 FEET WHOSE LENGTH IS 163.71 FEET;
2. SOUTH 10° 35' 00" EAST 215.00 FEET;
3. EASTERLY ALONG THE ARC OF A CIRCULAR CURVE WHOSE CENTER LIES TO THE EAST HAVING A RADIUS OF 12.00 FEET WHOSE LENGTH IS 18.85 FEET TO THE NORTHERLY SIDE OF ELDERWOOD DRIVE NORTH;

THENCE SOUTHERLY ALONG ELDERWOOD DRIVE NORTH THE FOLLOWING 2 COURSES:

1. SOUTH 79° 25' 00" WEST 107.87 FEET;
2. SOUTHERLY ALONG THE ARC OF A CIRCULAR CURVE WHOSE CENTER LIES TO THE SOUTH HAVING A RADIUS OF 200.00 FEET WHOSE ARC LENGTH IS 185.28 FEET TO THE POINT OR PLACE OF BEGINNING.

THE policy to be issued under this report will insure the title to such buildings and improvements erected on the premises, which by law constitute real property**.**

FOR CONVEYANCING ONLY: TOGETHER with all the right, title and interest of the party of the first part, of in and to the land lying in the street in front of and adjoining said premises.

Title No. NCS-823835-DC72

SCHEDULE "B-I"
(REQUIREMENTS)

THE FOLLOWING ARE REQUIREMENTS TO BE COMPLIED WITH FOR A TITLE POLICY TO ISSUE:

1. Searches, including judgments, federal tax liens and bankruptcies in the Eastern District have been run against GSD FLOWERFIELD, LLC, the certified owner(s) herein and the following must be disposed of: NO RETURNS

2. Re: GSD FLOWERFIELD, LLC, a New York limited liability company

   (a) Proof is required of its formation and that it has not been dissolved. Proof is also required that there has been no change in the composition of the Limited Liability Company.

   (b) A copy of its Articles of Organization and any amendments thereto, must be delivered to the Company for review in advance of closing.

   (c) A copy of its Operating Agreement and any amendments thereto, must be delivered to the Company for review in advance of closing.

   (d) Proof is required that the transaction to be insured has been duly authorized.

   (e) The name(s) of the managing member(s) must be furnished to this Company in advance of the closing so that federal tax lien and bankruptcy searches can be run. If the limited liability company does not have managing members, please contact Company Counsel to identify the names of the members as to whom said searches are to be run.

   NOTE: At least two-thirds in interest of the members at a duly called and noticed meeting are required to vote for or consent in writing to a sale, lease or mortgage, pursuant to Sections 402, 403, 405 and 407 of the Limited Liability Company Law. Counsel must be advised in advance of the closing if less than two-thirds have voted for or consented in writing to the proposed transaction (or that such a vote or consent is anticipated) to determine if there is or will be due authority to convey.

   Conveyances by a Limited Liability Company formed on and after August 31, 1999, and a previously formed Limited Liability Company having amended its Operating Agreement to so provide, may proceed on the vote of a majority in interest of its members.

3. If the proposed insured is a corporation, a limited liability company, a limited liability partnership or a limited partnership, proof of due formation must be furnished at or prior to closing.

4. A copy of the Contract of Sale must be submitted for consideration prior to closing.

   NOTE: When applicable, a copy of the Contract of Sale must be submitted with the New York City Real Property Transfer Tax Return (RPT) when the consideration is $400,000.00 or more.

Title No. NCS-823835-DC72

SCHEDULE B-I Continued
(REQUIREMENTS)

5. Due to the implementation of a new computer system in the Office of the Suffolk County Clerk, searches are not able to be accurately or reliably conducted to date for judgments, notices of pendency, deeds and mortgages. Until this problem is resolved, the seller or mortgagor for the transaction for which this report has been prepared must provide an affidavit at closing that there are, to the actual knowledge of the affiant, no judgments, or actions commenced against the property, in any state or federal court nor any deeds or mortgages affecting the property not disclosed in the title report.

6. NOTE: ALL INSTRUMENTS TO BE RECORDED IN SUFFOLK COUNTY MUST BE EXECUTED WITH BLACK INK ONLY.

7. To verify at closing the identity of the persons who are executing closing documents, two forms of identification, at least one of which is to contain a photograph, is required to be presented.

8. Note: Payment at closing of any amount exceeding $5,000.00 must be made by a bank or certified check, by a check issued from an attorney's escrow account, or by wired funds.

9. FOR INFORMATION ONLY:

   RE: Real Property Tax Payments

   NOTE: The recording of documents has been significantly delayed by many county recording offices in New York State. When real estate tax payments become due prior to the recording of a deed, the local tax assessor may not have sufficient information as to where tax bills are to be sent. Where this is an issue, it may be advisable to contact the office of your local tax assessor with a copy of the closing deed. First American is not responsible for the failure to receive real estate tax bills or for any additional charges that may result from the failure to timely pay such amounts. The prompt payment of real estate taxes is the responsibility of the property owner and its mortgage lender.

10. Note: Contact Counsel for the Company in advance of closing if a document is to be executed pursuant to a power of attorney.

11. Note: County Clerks require that each Form RP-5217, the Real Property Transfer Report, be printed as a 8 ½" X 14" legal size document. In addition, no handwritten information is accepted and bar coded Form RP-5217-PDF will only be accepted by the County Clerk, in counties in which the RP-5217-PDF is accepted, when the form has been completed online at http://www.tax.ny.gov/pdf/current_forms/orpts/rp5217.pdf . Compliance with these requirements is necessary to record the deed being insured. For a list of counties accepting Form RP-5217-PDF go to http://www.tax.ny.gov/research/property/assess/rp5217/index.htm.

Title No. NCS-823835-DC72

SCHEDULE "B-II"
(EXCEPTIONS)

THE POLICY WILL INCLUDE AS EXCEPTIONS TO TITLE THE FOLLOWING MATTERS UNLESS THEY ARE DISPOSED OF TO THE SATISFACTION OF THE COMPANY:

1. Rights of tenants or persons in possession, if any.

2. Taxes, tax liens, tax sales, water rates, sewer rents and assessments set forth herein.

3. Any state of facts which a guaranteed survey of current date would disclose.

   The exact location, courses, distances and dimensions of the premises described in Schedule A are not insured without a survey thereof acceptable to this Company.

4. There (is) are two open mortgage(s) of record. (See Mortgage Schedule herein)

   NOTE: Mortgages 'A' and 'B' are held of record by non-institutional lenders. Documents required of said lenders, such as a satisfactions, assignments or instruments of subordination, must be delivered to Counsel for the Company at, or prior to, closing. The original notes and mortgages must also be delivered if the mortgages are to be satisfied or assigned.

5. Electric Easement made by John Lewis Childs to Long Island Lighting Company dated 7/21/1911 and recorded 8/24/1915 in Liber 913 Cp 48 (see post), as partially released by Agreement made by and among Long Island Lighting Company, Sprucedale Building Corporation, and Levitt and Sons, Incorporated dated 8/4/1966 and recorded 8/17/1966 in Liber 6013 Cp 339 (see post).

6. Restrictive Covenant made by Gyrodyne Company of America, Inc. dated 10/26/1960 and recorded 10/31/1960 in Liber 4898 Cp 482 (see post), as amended by Agreement made by and among Gyrodyne Company of America, Inc., The Chase Manhattan Bank, Oliver Hazard Perry, Audrey Perry Burnier, Mathilde L. Perry, Town of Smithtown, and Incorporated Village of Head of the Harbor, dated 4/28/1964 and recorded 12/22/1964 in Liber 5674 Cp 11 (see post).

7. Covenants and Restrictions in a resolution made by the Town of Smithtown dated 9/15/1960 and recorded 3/8/1978 in Liber 8398 Cp 269 (see post).

8. Easement made by DiCanio Residential Communities, Inc. to Petra Cablevision Corp. dated 10/4/1985 and recorded 1/21/1986 in Liber 9959 Cp 424 (see post).

9. Telephone Easement made by DiCanio Residential Communities, Inc. to New York Telephone Company dated 5/12/1986 and recorded 7/3/1986 in Liber 10070 Cp 559 (see post).

10. Declaration of Covenants and Restrictions made by DiCanio Residential Communities, Inc. dated 10/20/1987 and recorded 11/25/1987 in Liber 10478 Cp 420 (see post).

11. Grant of Drainage Easement made by Gyrodyne Co. of America, Inc. to the Town of Smithtown dated 10/25/1996 and recorded 12/19/1996 in Liber 11806 Cp 976 (see post).

Title No. NCS-823835-DC72

SCHEDULE B-II Continued
(EXCEPTIONS)

12. Grant of Drainage Easement made by Gyrodyne Co. of America, Inc. to the Town of Smithtown dated 6/10/1997 and recorded 7/8/1997 in Liber 11839 Cp 509 (see post).

13. Declaration of Covenants and Restrictions made by Gyrodyne Company of America, Inc. dated as of 8/1/2002 and recorded 8/22/2002 in Liber 12204 Cp 947 (see post).

14. Drainage Easement made by DiCanio Residential Communities, Inc. to the Town of Smithtown dated 10/30/1987 and recorded 9/10/1999 in Liber 11988 Cp 247 (see post).

15. Drainage Easement made by Mills Pond Development Corp. to the Town of Smithtown dated 11/23/1994 and recorded 9/10/1999 in Liber 11988 Cp 248 (see post).

16. Terms, covenants, conditions and agreements contained in a lease dated 6/2/1958, made by and between Gyrodyne Company of America, Inc., Lessor, and Joseph Barbato, John Barbato and Nicholas Barbato, a Co-Partnership doing business as Barbato Bros., Lessee, recorded on 9/24/1959 in Liber 4698 Cp 59 (see post).

    A copy of the aforementioned lease and any amendments thereto must be submitted to this Company for consideration prior to closing.

17. Declaration of Covenants and Restrictions made by Gyrodyne Company of America, Inc. dated 5/9/1990 and recorded 8/17/1990 in Liber 11122 Cp 89 (see post).

18. FOR INFORMATION: Elderwood Drive was dedicate to the Town of Smithtown by Cession deed made by DiCanio Residential Communities, Inc. dated 10/20/1987 and recorded 7/19/2000 in Liber 12056 Cp 679 (see post).

19. Policy does not insure any title to land lying in the bed of North Country Road (Smithtown-Port Jefferson Highway-Route 25A).

20. FOR INFORMATION ONLY: The tax search reveals that the water is supplied by the municipality. In the event that water charges are not paid, they will be relevied as part of a general tax. Policy does not insure against water charges relevied to general taxes subsequent to closing for periods prior to closing.

21. **AS TO BLOCK 2 LOT 8:** Tax search will be forwarded upon receipt. Additional exceptions may be raised on review of that search.

Title No. NCS-823835-DC72

SURVEY READING

Title No. NCS-823835-DC72

MORTGAGE SCHEDULE

MORTGAGE 'A'

MORTGAGE made by GYRODYNE COMPANY OF AMERICA, INC. to MANUFACTURERS AND TRADERS TRUST COMPANY in the amount of $1,750,000.00 dated 5/29/2003, recorded 7/15/2003 in (as) Liber 20445 Mp 263. (Mortgage Tax Paid: $17,500.00)

ASSIGNMENT OF MORTGAGE made by MANUFACTURERS AND TRADERS TRUST COMPANY to ASIA WORLD MARKETPLACE, LLC dated 4/29/2010, recorded 5/26/2010 in (as) Liber 21951 Mp 459. Assigns Mortgage(s) 'A'.

MORTGAGE SPREADER AGREEMENT made by and between GYRODYNE COMPANY OF AMERICA, INC. and ASIA WORLD MARKETPLACE, LLC dated 4/30/2010, recorded 5/26/2010, in (as) Liber 21951 Mp 460. Spreads Mortgage(s) 'A' to cover lots 4, 14 and 13.3.

ASSIGNMENT OF MORTGAGE made by ASIA WORLD MARKETPLACE, LLC to THE BRIDGEHAMPTON NATIONAL BANK dated 12/21/2010, recorded 1/19/2011 in (as) Liber 22031 Mp 881. Assigns Mortgage(s) 'A'.

MORTGAGE 'B' AFFECTS LOTS 4,14 AND 13.3

MORTGAGE AND SECURITY AGREEMENT made by GYRODYNE COMPANY OF AMERICA, INC. to THE BRIDGEHAMPTON NATIONAL BANK in the amount of $2,250,000.00 dated 12/29/2010, recorded 1/19/2011 in (as) Liber 22031 Mp 882. (Mortgage Tax Paid: $23,625.00)

CONSOLIDATION, EXTENSION AND MODIFICATION AGREEMENT made by and between THE BRIDGEHAMPTON NATIONAL BANK and GYRODYNE COMPANY OF AMERICA, INC. dated 12/29/2010, recorded 1/19/2011 in (as) Liber 22031 Mp 883. Consolidates Mortgages 'A' and 'B' to form a single lien in the amount of $4,000,000.00.

ASSIGNMENT OF MORTGAGE made by THE BRIDGEHAMPTON NATIONAL BANK to FLOWERFIELD MORTGAGE, INC. dated 12/19/2012, recorded 1/18/2013 in (as) Liber 22294 Mp 679. Assigns Mortgage(s) 'A' and 'B'.

Mortgages 'A' and 'B', as consolidated, may be assigned and/or satisfied by:

FLOWERFIELD MORTGAGE, INC.

This title report does not show all the terms and provisions of the mortgage(s) set forth herein. Interested parties should contact the holder(s) thereof to ascertain the terms, covenants and conditions contained therein, and to determine if there are any unrecorded amendments or modifications thereto.

CONSUMER NOTICES AND DISCLOSURES AS REQUIRED PURSUANT TO NEW YORK INSURANCE LAW:

Date: December 14, 2016
Order/File No. NCS-823835-DC72
The Property: Mills Pond Road, Saint James, NY
To: (Borrower(s))

These disclosures and Notices are for the purposes of compliance with New York Insurance law and do not alter or change the coverages, exceptions, exclusions, or conditions of the final policies issued in connection with the subject transaction. Any person who knowingly, and with intent to defraud any insurance company or other person, files an application for insurance or statement of claim containing any materially false information, or conceals, for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime, and shall also be subject to a civil penalty not to exceed five thousand dollars ($5,000.00) and the stated value of the claim for each such violation.

THIS REPORT IS NOT A TITLE INSURANCE POLICY. PLEASE REVIEW THIS REPORT WITH A REAL ESTATE PROFESSIONAL REPRESENTING YOUR INTEREST IN THIS TRANSACTION. PLEASE READ IT CAREFULLY. THE REPORT MAY SET FORTH EXCLUSIONS UNDER THE TITLE INSURANCE POLICY AND MAY NOT LIST ALL LIENS, DEFECTS, AND ENCUMBRANCES AFFECTING TITLE TO THE PROPERTY. YOU SHOULD CONSIDER THIS INFORMATION CAREFULLY.

NOTICE CONCERNING AVAILABILITY OF AN "OWNER'S" POLICY OF TITLE INSURANCE

Please indicate that this transaction is either: a refinance_____ or, a purchase_____.

Our records indicate that you currently are seeking only a "Lender's" title insurance policy, not an "Owner's" title insurance policy.

You have the option of purchasing an Owner's insurance policy. Please read the following disclosures concerning "Lender's" and "Owner's" title insurance policies, and initial in the space provided to confirm that you have read and understand the disclosures.

_____ I/We acknowledge that the Lender's title insurance policy issued in connection with this financing provides insurance to the lender only and does not insure my/our interest in the property as the owner(s) of the property.

_____ I/We acknowledge that I/we understand that the Lender's policy insures that the lender has a valid and enforceable encumbrance on the property that I/we own or that I/we am/are purchasing. An Owner's Policy, if purchased by me/us, would insure me/us and provide me/us with an opportunity for a legal defense against claims made against the title to the property. The Owners' policy would also protect my/our equity in the property and assure the marketability of the property when I/we sell it. Without an Owners' policy I/we do not get those protections.

_____I/We acknowledge that I/We have been given the opportunity to purchase an Owner's policy and that the website for First American Title Insurance Company title policy premium and endorsement rates is http://facc.firstam.com/ and the Phone Number is (800) 724-0040.

I/We may obtain an Owner's Policy of Title Insurance which provides title insurance to me/us and the total premium for both policies will be $_____.

This is an additional $_____ above the cost of the Lender's Policy.

_____ I/We do request Owner's Policy of title insurance.

_____ I/We do not request Owner's Policy of title insurance.

TO BE SIGNED BY BUYER(S)/BORROWER(S)

_____
Buyer/Borrower

_____
Buyer/Borrower

FIRST AMERICAN TITLE INSURANCE

Municipality Contact Information

PARKING VIOLATIONS: A Satisfaction of Judgment must be obtained from the Parking Violations Bureau located at any of the below addresses. Said Satisfaction should then be filed with the New York County Clerk's Office located at 60 Centre Street, New York, NY and upon paying an **$8.00** fee they will issue a Certificate of Disposition.

P.V.A. HELP CENTER DAY & HOURS: (212) 477-4430
MANHATTAN HELP CENTER: 66 John Street, 2nd Floor, New York, NY 10038
BRONX HELP CENTER: 1400 Williamsbridge Road
BROOKLYN HELP CENTER: 216 Joralemon Street
QUEENS HELP CENTER: 89-61 162nd Street
STATEN ISLAND HELP CENTER: 300 St. Marks Place
THE HELP CENTERS ARE OPEN MONDAY THROUGH FRIDAY – 8:30am to 7:00pm

NEW YORK STATE TAX COMMISSION LIENS – For information regarding disposition and payments, please write: Tax Compliance Division, P.O. Box 5149, Albany, New York 12205 or call (800) 835-3554 or (800) 452-0455.

FEDERAL TAX LIENS – For information regarding disposition and payments, please write: The Internal Revenue Services, 120 Church Street, New York, New York 10013 or at 210 East Post Road, White Plains, New York or call (800) 829-1040.

CITY OF NEW YORK LIENS – For information regarding disposition and payments, please write: The Department of Finance, Bureau of Tax Collection, 59 Maiden Lane, 24th Floor, New York, NY 10038 or call (212) 440-5400 or (212) 440-5479.

HIGHWAY DEPARTMENT (sidewalk violations) – For information regarding disposition and payments, Please write: NYC Dept. Of Transportation, 55 Water Street, New York, NY 10041 or call (212) 839-4302.

ENVIRONMENTAL CONTROL LIENS – For information regarding disposition and payments, please write: The Environmental Control Board, 66 John Street, 10th Floor, New York, NY 10038 or call (212) 560-6270.

TRANSIT ADJUDICATION LIENS – For information regarding disposition and payments, please write: 29 Gallatin Place, 3rd Floor (Bet. Fulton & Livingston St's.) Brooklyn, NY 11201 or call (347) 643-5805.

NEW YORK STATE INDUSTRIAL COMMISSIONER – For information regarding disposition and payments, please write: N.Y.S. Department of Labor, Building 12, State Campus, Room 509, Albany, NY 12340 or call (518) 457-5789 or (518) 457-0390.

INTEREST CLERK – For interest on all outstanding taxes in the City of New York or questions regarding In-Rem, please write: The City of New York, Department of Finance Adams Street, 345 Adams Street, 5th Floor, Brooklyn, NY 11201 or call (718) 935-6153.

First American Title

Privacy Information

We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our subsidiaries we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability

This Privacy Policy governs our use of the information that you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its Fair Information Values.

Types of Information

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

Former Customers

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's Fair Information Values. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Information Obtained Through Our Web Site

First American Financial Corporation is sensitive to privacy issues on the Internet. We believe it is important you know how we treat the information about you we receive on the Internet.
In general, you can visit First American or its affiliates' Web sites on the World Wide Web without telling us who you are or revealing any information about yourself. Our Web servers collect the domain names, not the e-mail addresses, of visitors. This information is aggregated to measure the number of visits, average time spent on the site, pages viewed and similar information. First American uses this information to measure the use of our site and to develop ideas to improve the content of our site.
There are times, however, when we may need information from you, such as your name and email address. When information is needed, we will use our best efforts to let you know at the time of collection how we will use the personal information. Usually, the personal information we collect is used only by us to respond to your inquiry, process an order or allow you to access specific account/profile information. If you choose to share any personal information with us, we will only use it in accordance with the policies outlined above.

Business Relationships

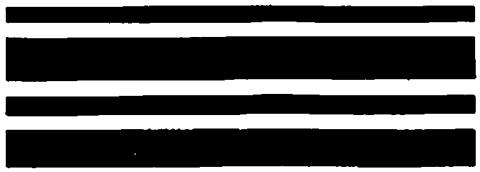
First American Financial Corporation's site and its affiliates' sites may contain links to other Web sites. While we try to link only to sites that share our high standards and respect for privacy, we are not responsible for the content or the privacy practices employed by other sites.

Cookies

Some of First American's Web sites may make use of "cookie" technology to measure site activity and to customize information to your personal tastes. A cookie is an element of data that a Web site can send to your browser, which may then store the cookie on your hard drive.
FirstAm.com uses stored cookies. The goal of this technology is to better serve you when visiting our site, save you time when you are here and to provide you with a more meaningful and productive Web site experience.

Fair Information Values

Fairness We consider consumer expectations about their privacy in all our businesses. We only offer products and services that assure a favorable balance between consumer benefits and consumer privacy.
Public Record We believe that an open public record creates significant value for society, enhances consumer choice and creates consumer opportunity. We actively support an open public record and emphasize its importance and contribution to our economy.
Use We believe we should behave responsibly when we use information about a consumer in our business. We will obey the laws governing the collection, use and dissemination of data.
Accuracy We will take reasonable steps to help assure the accuracy of the data we collect, use and disseminate. Where possible, we will take reasonable steps to correct inaccurate information. When, as with the public record, we cannot correct inaccurate information, we will take all reasonable steps to assist consumers in identifying the source of the erroneous data so that the consumer can secure the required corrections.
Education We endeavor to educate the users of our products and services, our employees and others in our industry about the importance of consumer privacy. We will instruct our employees on our fair information values and on the responsible collection and use of data. We will encourage others in our industry to collect and use information in a responsible manner.
Security We will maintain appropriate facilities and systems to protect against unauthorized access to and corruption of the data we maintain.



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

R/O

Type of Instrument: DEED — **Recorded: 02/19/2014**
Number of Pages: 11 — **At: 02:57:07 PM**
Receipt Number : 14-0019328
TRANSFER TAX NUMBER: 13-18909 — **LIBER: D00012764**
PAGE: 022

District:	Section:	Block:	Lot:
0800	040.00	02.00	013.003

EXAMINED AND CHARGED AS FOLLOWS 015.000

Deed Amount: $0.00

+0200-27400-02.00 —
008.000

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$55.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$180.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$535.00	

TRANSFER TAX NUMBER: 13-18909
THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 11

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 19 02:57:07 PM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L D00012764
P 022
DT# 13-18909

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee	55 -		
Handling	20 00		
TP-584	5 -		
Notation			
EA-52 17 (County)	5 -	Sub Total	85
EA-5217 (State)	250 -		
R.P.T.S.A. +2	180 00		
Comm. of Ed.	5. 00		
Affidavit			
Certified Copy			
NYS Surcharge	15. 00	Sub Total	450
Other		Grand Total	535 -

DHM

Mortgage Amt. _____
1. Basic Tax _____
2. Additional Tax _____
Sub Total _____
Spec./Assit. or Spec. /Add. _____
TOT. MTG. TAX _____
Dual Town ____ Dual County ____
Held for Appointment _____
Transfer Tax 0
Mansion Tax _____

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES _____ or NO _____
If NO, see appropriate tax clause on page # _____ of this instrument.
400 12/26/2013

4 Dist. 0800 14003310

Real Property Tax Service Agency Verification

PTS RSMI A 05-FEB-14

See Attached

5 Community Preservation Fund

Consideration Amount $ 0

CPF Tax Due $ _____

TP584.1

Improved _____
Vacant Land _____
TD _____
TD _____
TD _____

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15392

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached Bargain and Sale Deed made by: (SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

TO
GSD Flowerfield, LLC

In the TOWN of Smithtown
In the VILLAGE
or HAMLET of _____

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

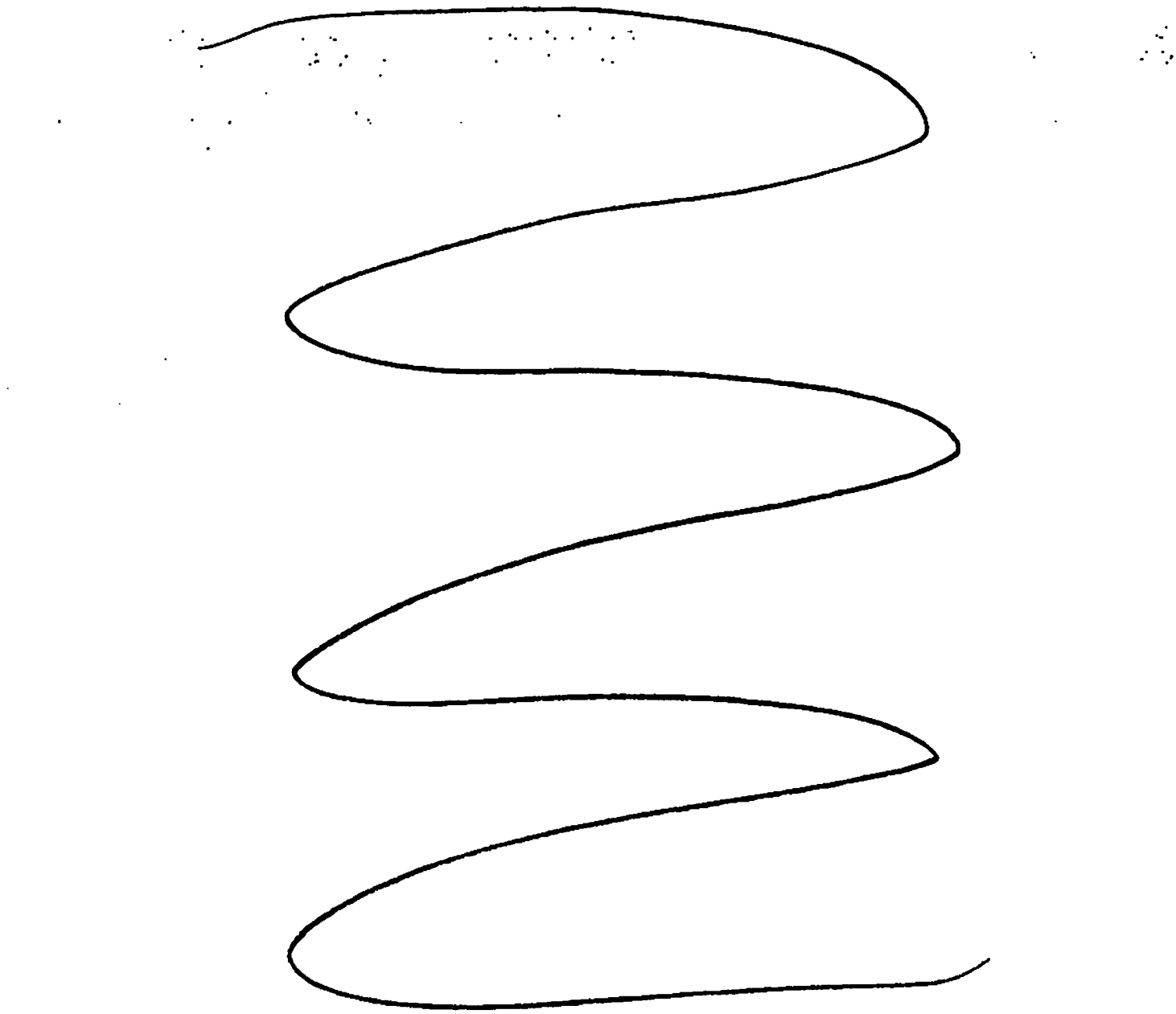
(over)

Doc ID: 14003310

PTS
R SMI A
05-FEB-14

Tax Maps

District	Secton	Block	Lot	School District	Sub Division Name
0800	04000	0200	013003		
0800	04000	0200	013004	excepted parcel	
0800	04000	0200	015000	SMITHTOWN	



Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 26th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District: 0800

Section: 040.00

Block: 02.00

Lots: 015.000

13.003 f/k/a 013.001

13.004 f/k/a 013.002

County: Suffolk

SAID PREMISES being known as Route 25A, Smithtown, New York (as to Lot 13.003 f/k/a 013.001) and Mills Pond Road, Smithtown, New York (as to Lots 015.000 and 13.004 f/k/a 013.002).

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Flowerfield Bulb Farm, Incorporated, dated June 28, 1951, and recorded on July 7, 1951 in the Suffolk County Clerk's Office in Liber 3235, at Page 571.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF SUFFOLK) ss.:

On the 26th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6128920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)
On the Day of , 200 , before me, the undersigned, personally appeared
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOTS: 015.000, 13.003 F/K/A 013.001 & 13.004 F/K/A 013.002

COUNTY: SUFFOLK

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800-040.00-02.00-013.003)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365.15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

excepts 006.000

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

ALSO EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York, more particularly bounded and described as follows:

BEGINNING at a point on the northeasterly side of Mills Pond Road, distant 143.50 feet southeasterly from the corner formed by the intersection of the southeasterly side of North Country Road, (S.R. 25A) with the northeasterly side of Mills Pond Road;

RUNNING THENCE North 33 degrees 27 minutes 20 seconds East, 264.67 feet;

THENCE North 83 degrees 35 minutes 38 seconds East, 72.05 feet;

THENCE North 89 degrees 26 minutes 45 seconds East, 518.47 feet;

THENCE South 44 degrees 52 minutes 58 seconds East, 297.48 feet;

THENCE South 00 degrees 35 minutes 22 seconds East, 276.39 feet;

THENCE South 75 degrees 40 minutes 36 seconds West, 240.23 feet;

THENCE South 17 degrees 05 minutes 30 seconds East, 222.36 feet;

excepts 013.004

THENCE South 76 degrees 20 minutes 34 seconds West, 320.78 feet;

THENCE North 73 degrees 37 minutes 29 seconds West, 123.65 feet to the

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.003)

northeasterly side of Mills Pond Road;

THENCE along the northeasterly side of Mills Pond Road the following three (3) courses and distances:

1. North 20 degrees 23 minutes 40 seconds West, 169.85 feet;
2. North 33 degrees 48 minutes 40 seconds West, 378.23 feet;
3. North 41 degrees 15 minutes 40 seconds West, 123.78 feet to the POINT OR PLACE OF BEGINNING.

SCHEDULE A (cont'd)

(0800-040.00-02.00-015.000)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

BEGINNING at a locust stake set in the southeasterly side of North Country Road at the northerly corner of the land now or formerly of Louise Heisler and which said point of beginning is distant 568.76 feet northeasterly from the corner formed by the intersection of the southeasterly side of North Country Road with the northeasterly side of Mills Pond Road; and

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+ includes

RUNNING THENCE along the said southwesterly side of North Country Road the following courses and distances:

North 35 degrees 33 minutes 40 seconds East 790.80 feet;
North 38 degrees 50 minutes 30 seconds East 178.77 feet;
North 45 degrees 48 minutes East 272.39 feet;
North 54 degrees 24 minutes East 321.35 feet;
North 60 degrees 51 minutes 50 seconds East 412.47 feet; and
North 43 degrees 20 minutes 40 seconds East 192.72 feet to a locust stake and the land now or formerly of Anna S. Knudsen; and

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02.00
008.000

RUNNING THENCE along said last mentioned land South 34 degrees 06 minutes 20 seconds East 416.48 feet to a cement monument said in the northwesterly side of the land of the Long Island Railroad;

RUNNING THENCE along said land of Long Island Railroad South 19 degrees 18 minutes West 353.79 feet to a cement monument, and the land of John Lewis Childs, Inc.;

RUNNING THENCE along last said mentioned land the following courses and distances:

South 69 degrees 46 minutes 40 seconds West 56.15 feet to a locust stake;
South 66 degrees 31 minutes 20 seconds West 100.38 feet to a locust stake;
South 60 degrees 40 minutes 10 seconds West 41.34 feet to a locust stake;
South 44 degrees 57 minutes 50 seconds West 753.12 feet to a locust stake;
South 14 degrees 21 minutes 30 seconds East 64.68 feet;
South 23 degrees 24 minutes East 48.17 feet;
South 28 degrees 09 minutes 50 seconds East 89.67 feet to a locust stake;
South 67 degrees 06 minutes 10 seconds West 34.82 feet to a locust stake;
South 74 degrees 08 minutes 30 seconds West 397.65 feet to a locust stake; and
South 74 degrees 13 minutes 50 seconds West 342.64 feet to a locust stake; and the land now or formerly of Louise Heisler;

THENCE along said last mentioned land North 53 degrees 20 minutes 30 seconds West 321.62 feet to a locust stake set in the southeasterly side of North Country Road at the point or place of BEGINNING.

SCHEDULE A (cont'd)

(0800-040.00-02.00-013.001 and 0800-040.00-02.00-013.002)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Smithtown and the Town of Brookhaven, County of Suffolk and State of New York, more particularly bounded and described as follows:

Commencing at a point on the easterly line of Mills Pond Road at the northwesterly corner of land now or formerly of Annie E. Newton, thence along the said easterly line of Mills Pond Road North 01 degrees 51 minutes 20 seconds West 365. 15 feet to a stake at the southwesterly corner of land now or formerly of Robert Elderkin;

THENCE along the southerly line of said land of Robert Elderkin North 82 degrees 40 minutes 10 seconds East 210.08 feet;

THENCE along the easterly line of land of said Robert Elderkin North 03 degrees 00 minutes 40 seconds East 204.48 feet to a monument;

THENCE along the easterly line of land now or formerly of James J. and Louise McKetric North 02 degrees 18 minutes 20 seconds West 313 feet to a monument;

THENCE along the northerly line of land of said James J. and Louise McKetrick South 75 degrees 57 minutes 30 seconds West 227.16 feet to a stake in the easterly line of Mills Road;

THENCE along the easterly line of said Mills Pond Road the following courses and distances:

North 01 degrees 24 minutes West 39.72 feet;
North 20 degrees 23 minutes 40 seconds West 246.21 feet;
North 33 degrees 48 minutes 40 seconds West 378.23 feet;

THENCE North 41 degrees 15 minutes 40 seconds West 266.78 feet to a

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

monument at the corner formed by the intersection of the easterly line of said Mills Road Pond with the southeasterly line of North Country Road;

THENCE along the said southeasterly line of North Country Road 32 degrees 27 minutes 20 seconds East 292.34 feet to a corner of land now or formerly of DuBoise Smith;

THENCE along the land of said DuBois Smith the following courses and distances:

South 53 degrees 19 minutes East 100.38 feet;
North 73 degrees 53 minutes 10 seconds East 250.14 feet;
North 74 degrees 15 minutes 20 seconds East 439.56 feet;
North 74 degrees 10 minutes East 397.65 feet;
North 67 degrees 07 minutes 40 seconds East34.82 feet;
North 28 degrees 08 minutes 20 seconds West 89.67 feet;
North 23 degrees 22 minutes 30 seconds West 48.17 feet;
North 14 degrees 20 minutes West 64.68 feet;
North 44 degrees 59 minutes 20 seconds East 753.12 feet;
North 60 degrees 41 minutes 40 seconds East 41.34 feet;
North 66 degrees 32 minutes 30 seconds East 100.38 feet;
North 69 degrees 48 minutes 10 seconds East 56.15 feet to the northwesterly side of land of the Long Island Railroad;

013.003

THENCE along the said land of said Long Island Railroad South 19 degrees 19 minutes 30 seconds West 2913.30 feet to a monument;

THENCE continuing along land of said Railroad, following a curved line bearing to the right whose radius is 13.99 feet, a distance of 136.20 feet to a point at the northeasterly corner of said land of Annie E. Newton;

THENCE along the northerly line of said land of Annie E. Newton South 82 degrees 43 minutes 50 seconds West 444.70 feet to the point or place of BEGINNING.

EXCEPTING, HOWEVER, FROM THE ABOVE DESCRIBED REAL ESTATE, THE PART THEREOF DESCRIBED AS FOLLOWS:

BEGINNING at a concrete monument set in the easterly line of Mills Pond Road where the same is intersected by the southerly boundary line of land of Robert Elderkin;

THENCE from said point of beginning North 82 degrees 40 minutes 10 seconds

SCHEDULE A (cont'd)

(District/Section/Block/Lot: 0800-040.00-02.00-013.001 and 013.002)

East along last mentioned land, 210.08 feet to a concrete monument and land of James D. Mooney;

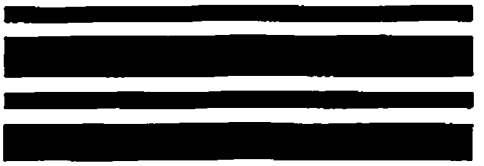
THENCE southerly and westerly along the last mentioned land the following two courses and distances:

South 03 degrees 00 minutes 40 seconds West, 110.52 feet to a concrete monument;

South 82 degrees 40 minutes 10 seconds West, 200.65 feet to a concrete monument and the easterly line of Mills Pond Road;

THENCE North 01 degree 51 minutes 20 seconds West along the easterly line of Mills Pond Road 109.20 feet to the point and place of BEGINNING.

except
006.000



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

Type of Instrument: DEED — **Recorded: 02/19/2014**
Number of Pages: 4 — **At: 03:40:54 PM**
Receipt Number : 14-0019420
TRANSFER TAX NUMBER: 13-18930 — **LIBER: D00012764**
PAGE: 057

District:	Section:	Block:	Lot:
0800	040.00	02.00	014.000

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: $0.00

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$20.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$60.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$380.00	

TRANSFER TAX NUMBER: 13-18930

THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 4

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 19 03:40:54 PM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L D00012764
P 057
DT# 13-18930

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee			Mortgage Amt.
Handling	5.00		1. Basic Tax
TP-584			2. Additional Tax
Notation			Sub Total
EA-52 17 (County)		Sub Total	Spec./Assit. or Spec./Add.
EA-5217 (State)			TOT. MTG. TAX
R.P.T.S.A.	60.00		Dual Town ____ Dual County ____ Held for Appointment
Comm. of Ed.	5.00		Transfer Tax Ø
Affidavit			Mansion Tax
Certified Copy			
NYS Surcharge	15.00	Sub Total	
Other		Grand Total 380.- Vacant	

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES ____ or NO ____
If NO, see appropriate tax clause on page # ____ of this Instrument.

4 Dist. 0801 14003294 0800 04000 0200 014000

Real Property Tax Service Agency Verification

PTS RSMI A 05-FEB-14

5 Community Preservation Fund

Consideration Amount $ ____

CPF Tax Due $ ____

Improved ____
Vacant Land ____
TD ____
TD ____
TD ____

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15395

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached Bargain and Sale Deed made by: (SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

TO

GSD Flowerfield, LLC

In the TOWN of Smithtown
In the VILLAGE
or HAMLET of ____

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

(over)

Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 19 day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District: 0800

Section: 040.00

Block: 02.00

Lot: 014.000

County: Suffolk

SAID PREMISES being known as Route 25A, Smithtown, New York.

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Frank Heisler and Louise Heisler, his wife, dated November 4, 1966, and recorded on November 10, 1966 in the Suffolk County Clerk's Office in Liber 6067, at Page 62.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 20th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6128920
Qualified in Suffolk County
Commission Expires June 20 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)
On the Day of , 200 , before me, the undersigned, personally appeared
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOT: 014.000
COUNTY: SUFFOLK

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800-040.00-02.00-014.000)

ALL that certain plot, piece or parcel of land, situate, lying and being at St. James, in the Town of Smithtown, Suffolk County, New York, bounded and described as follows:

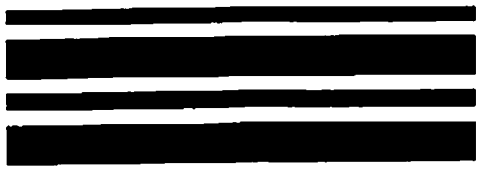
BEGINNING at a point on in the center line of the main highway leading from Stony Brook to Smithtown, where the same is intersected by the northerly line of lands, now or once owned by John Lewis Childs, Inc., prolonged westerly to the center line of said highway, and from said point of beginning running North 33 degrees 28 minutes East 154.86 feet along the center line of said highway to a point;

THENCE South 53 degrees 20 minutes 30 seconds East 346.37 feet;

THENCE South 74 degrees 13 minutes 50 seconds West 96.93 feet;

THENCE South 73 degrees 51 minutes 40 seconds West 250.14 feet;

THENCE North 53 degrees 20 minutes 30 seconds West 125.10 feet to the center line of said highway above described, at the point or place of BEGINNING.



SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

jc/o

Type of Instrument: DEED
Number of Pages: 4
Receipt Number : 14-0023769
TRANSFER TAX NUMBER: 13-19707

Recorded: 02/27/2014
At: 11:41:27 AM

LIBER: D00012765
PAGE: 080

District:	Section:	Block:	Lot:
0800	040.00	02.00	004.000

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: $0.00

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$20.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$60.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$380.00	

TRANSFER TAX NUMBER: 13-19707

THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 4

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 27 11:41:27 AM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L D00012765
P 080
DT# 13-19707

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee	20		
Handling	25.00		
TP-584	5		
Notation			
EA-52 17 (County)	5	Sub Total	50
EA-5217 (State)	250		
R.P.T.S.A.	60		
Comm. of Ed.	5.00		
Affidavit			
Certified Copy			
NYS Surcharge	15.00	Sub Total	330
Other		Grand Total	380

Mortgage Amt.
1. Basic Tax
2. Additional Tax
Sub Total
Spec./Assit.
or
Spec./Add.
TOT. MTG. TAX
Dual Town ____ Dual County ____
Held for Appointment
Transfer Tax 0
Mansion Tax

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES ____ or NO ____
If NO, see appropriate tax clause on page # 311 of this instrument.
12/26/13

4 Dist. 14004896 0800 04000 0200 004000 000

Real Property Tax Service Agency Verification

PTS R POL A 24-FEB-14

5 Community Preservation Fund

Consideration Amount $ 0

CPF Tax Due $

Improved
Vacant Land X
TD 08
TD
TD

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15394

8 Suffolk County Recording & Endorsement Page

This page forms part of the attached Bargain and Sale Deed TP-1 made by:
(SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

TO

GSD Flowerfield, LLC

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

In the TOWN of Smithtown
In the VILLAGE
or HAMLET of

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

(over)

Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 26th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District: 0800

Section: 040.00

Block: 02.00

Lot: 004.000

County: Suffolk

SAID PREMISES being known as Mill Pond Road, Smithtown, New York.

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Joseph L. Dorn, dated December 27, 1965, recorded on January 4, 1966 in the Suffolk County Clerk's Office in Liber 5888, at Page 263.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 30th day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB6128920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE

STATE OF)
) ss.:
COUNTY OF)

(or insert District of Columbia, Territory, Possession, or Foreign Country)

On the Day of , 200 , before me, the undersigned, personally appeared personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

GYRODYNE COMPANY OF AMERICA, INC.

TO

GSD FLOWERFIELD, LLC

DISTRICT: 0800
SECTION: 040.00
BLOCK: 02.00
LOT: 004.000
COUNTY: SUFFOLK

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800- 040.00 – 02.00 – 004.000)

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Flowerfield, Town of Smithtown, Suffolk County, New York, and more particularly described as follows:

BEGINNING at a point in the Easterly side of Mills Pond Road, distant 48.20 feet from the North West corner of land of Elderkin, as measured along said Easterly line of Mills Pond Road;

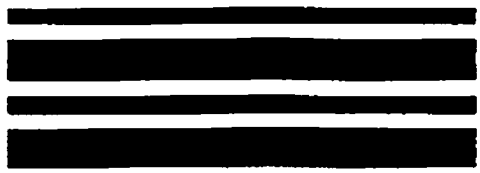
THENCE along the Easterly line of Mills Pond Road north 11 degrees 002 minutes 30 seconds east 221.17 feet to a point.

THENCE north 88 degrees 19 minutes 30 seconds east along land formerly of John Lewis Childs Est., 227.16 feet to a point.

THENCE south 10 degrees 08 minutes west along land formerly of John Lewis Childs Est., 261.9 feet to a point.

THENCE westerly along land of James McKetrick and Louise McKetrick to the easterly side of Mills Pond Road, said point being the point or place of beginning, containing 1 ¼ acres of land.

Interwoven\3431449.2



R/O

SUFFOLK COUNTY CLERK
RECORDS OFFICE
RECORDING PAGE

Type of Instrument: DEED **Recorded: 02/19/2014**
Number of Pages: 5 **At: 03:04:01 PM**
Receipt Number : 14-0019342
TRANSFER TAX NUMBER: 13-18915 **LIBER: D00012764**
PAGE: 033

District:	Section:	Block:	Lot:
0800	039.00	05.00	042.003

EXAMINED AND CHARGED AS FOLLOWS

Deed Amount: **$0.00**

of 042.004

Received the Following Fees For Above Instrument

		Exempt			Exempt
Page/Filing	$25.00	NO	Handling	$20.00	NO
COE	$5.00	NO	NYS SRCHG	$15.00	NO
EA-CTY	$5.00	NO	EA-STATE	$250.00	NO
TP-584	$5.00	NO	Notation	$0.00	NO
Cert.Copies	$0.00	NO	RPT	$120.00	NO
Transfer tax	$0.00	NO			
			Fees Paid	$445.00	

TRANSFER TAX NUMBER: 13-18915
THIS PAGE IS A PART OF THE INSTRUMENT
THIS IS NOT A BILL

JUDITH A. PASCALE
County Clerk, Suffolk County

1 | 2

Number of pages 5

This document will be public record. Please remove all Social Security Numbers prior to recording.

RECORDED
2014 Feb 19 03:04:01 PM
JUDITH A. PASCALE
CLERK OF
SUFFOLK COUNTY
L 000012764
P 033
DT# 13-18915

Deed / Mortgage Instrument	Deed / Mortgage Tax Stamp	Recording / Filing Stamps

3 FEES

Page / Filing Fee	25 -		Mortgage Amt.	
Handling	20.00		1. Basic Tax	
TP-584	5 -		2. Additional Tax	
Notation			Sub Total	
EA-52 17 (County)	5 -	Sub Total 55	Spec./Assit. or Spec./Add.	
EA-5217 (State)	250 -		TOT. MTG. TAX	
R.P.T.S.A. x1	120.00		Dual Town ___ Dual County ___ Held for Appointment ___	
Comm. of Ed.	5.00		Transfer Tax	0
Affidavit			Mansion Tax	
Certified Copy				
NYS Surcharge	15.00	Sub Total 390		
Other		Grand Total 445-		

The property covered by this mortgage is or will be improved by a one or two family dwelling only.
YES ______ or NO ______
If NO, see appropriate tax clause on page # ______ of this instrument.

DMH

311 12/26/2013

4 Dist. 0800 14003314 See Attached

Real Property Tax Service Agency Verification

P T S
R SMI A
05-FEB-14

5 Community Preservation Fund
Consideration Amount $ 0
CPF Tax Due $ ______

TP584.1

Improved ______
Vacant Land ______
TD ______
TD ______
TD ______

6 Satisfactions/Discharges/Releases List Property Owners Mailing Address
RECORD & RETURN TO:

Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556

Mail to: Judith A. Pascale, Suffolk County Clerk
310 Center Drive, Riverhead, NY 11901
www.suffolkcountyny.gov/clerk

7 Title Company Information
Co. Name Advantage Title Agency, Inc.
Title # REC15393

8 **Suffolk County Recording & Endorsement Page**

This page forms part of the attached Bargain and Sale Deed made by:
(SPECIFY TYPE OF INSTRUMENT)

Gyrodyne Company of America, Inc.

The premises herein is situated in SUFFOLK COUNTY, NEW YORK.

TO

In the TOWN of Smithtown

GSD Flowerfield, LLC

In the VILLAGE
or HAMLET of ______

BOXES 6 THRU 8 MUST BE TYPED OR PRINTED IN BLACK INK ONLY PRIOR TO RECORDING OR FILING.

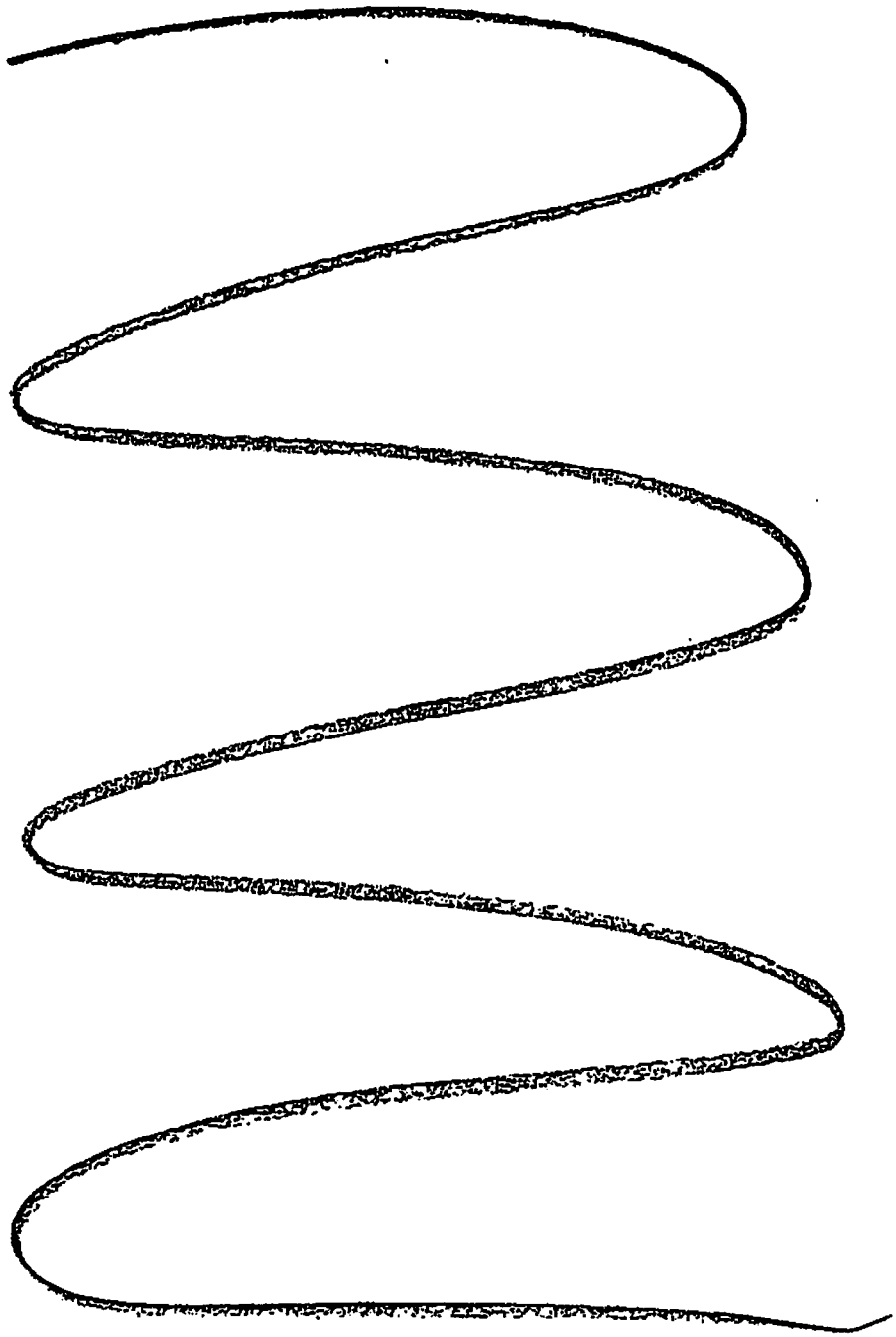
(over)

Doc ID: 14003314

PTS
R SMI A
05-FEB-14

Tax Maps

District	Secton	Block	Lot	School District	Sub Division Name
0800	03900	0500	042003		
0800	03900	0500	042004	SMITHTOWN	



Bargain & sale deed with covenant against grantor's acts - Ind. or Corp. single sheet

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 26th day of December, two thousand and thirteen

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC., a New York corporation, as successor by law to FLOWERFIELD REALTY INC. d/b/a GSAT, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the first part, and

GSD FLOWERFIELD, LLC, a New York limited liability company, having an office at 1 Flowerfield, Suite 24, St. James, New York 11780,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten and 00/100 ($10.00) Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Smithtown, County of Suffolk and State of New York and more fully described on Schedule A annexed hereto and made a part hereof.

District: 0800

Section: 039.00

Block: 05.00

Lots: 042.003 042.004

County: Suffolk

SAID PREMISES being known as Elderwood Drive North, Smithtown, New York.

BEING THE SAME PREMISES conveyed to the party of the first part by deed from Mills Pond Development, Corp. dated October 5, 1994, and recorded on October 17, 1994 in the Suffolk County Clerk's Office in Liber 11698, Page 488, and corrected by deed dated November 18, 1994, and recorded on December 12, 1994 in the Suffolk County Clerk's Office, in Liber 11706, Page 51.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Frederick Braun
President

STATE OF NEW YORK)
COUNTY OF Suffolk) ss.:

On the 16 day of December, in the year 2013, before me, the undersigned, personally appeared Frederick Braun, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Dawn M. Ibraham
Notary Public, State of New York
No. 01IB8126920
Qualified in Suffolk County
Commission Expires June 20, 2017

Signature and office of individual taking acknowledgment

ACKNOWLEDGMENT TAKEN OUTSIDE NEW YORK STATE
STATE OF)
) ss.:
COUNTY OF)
(or insert District of Columbia, Territory, Possession, or Foreign Country)
On the Day of , 200 , before me, the undersigned, personally appeared
personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the (Add the city or political subdivision and the state or country or other place the acknowledgment was taken.)

Signature and office of individual taking acknowledgment

STATE OF NEW YORK)
COUNTY OF) ss.:

On the day of , in the year

before me, the undersigned personally appeared , personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and office of individual taking acknowledgment.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No.

GYRODYNE COMPANY OF AMERICA, INC., as successor by law to FLOWERFIELD REALTY INC. d/b/a GSAT

TO

GSD FLOWERFIELD, LLC

DISTRICT: 0800
SECTION: 039.00
BLOCK: 05.00
LOTS: 042.003 and 042.004
COUNTY: SUFFOLK

RETURN BY MAIL TO:

David M. Curry, Esq.
Farrell Fritz, P.C.
1320 RXR Plaza
Uniondale, NY 11556-1320
Zip No.

SCHEDULE A

(0800-039.00-05.00-042.003 and 0800-039.00-05.00-042.004)

ALL that certain plot, piece or parcel of land, situate, lying and being in St. James, Town of Smithtown, County of Suffolk and State of New York, known and designated as and by part of Lot Numbers 113, 114, 115 and all of 116 the Recharge Basin and all roads as shown on a certain map entitled, "Map of Mills Pond Estates Section 3", and filed in the Suffolk County Clerk's Office on 6/2/88 as Map Number 8534.

BEGINNING at a point on the westerly side of Elderwood Drive West. As shown on the map of Mills Pond Section 3 filed June 2, 1988 as Map Number 8534. Said point being 556.01 feet, northerly from the northerly end of a curve connecting the northerly side of Wellwood Road with the westerly side of Elderwood Drive West;

THENCE along Lot 112 the following 2 courses:
1) South 63 degrees 39 minutes 48 seconds East 75.00 feet;
2) South 83 degrees 16 minutes 52 seconds West 313.41 feet to the

westerly side of Mills Pond Road;

THENCE along Mills Pond Road North 08 degrees 52 minutes 59 seconds West 104.10 feet to a proposed recharge basin;

THENCE along the proposed recharge basin the following 4 courses and distances:
1) North 81 degrees 07 minutes 00 seconds East 115.00 feet;
2) Along the arc of a circular curve whose center lies to the North having a radius of 145.00 feet and an arc length of 98.70 feet;
3) THENCE North 42 degrees 07 minutes 00 seconds East 405.00 feet;
4) THENCE North 35 degrees 23 minutes 00 seconds West 194.17 feet to the southerly side of the Long Island Railroad;

THENCE easterly along the railroad along the arc of a circular curve whose center line lies to the North having a radius of 1,465 and an arc length of 409.52 feet to land now or formerly of Gyrodyne Company of America, Inc.;

THENCE along land of Gyrodyne Company South 11 degrees 31 minutes 30 seconds East 500.84 feet to Lot 117 as shown on a Map of Mills Pond Section 3;

THENCE along Lot 117 the following 3 courses:
1) Southerly along the arc of a circular curve whose center lies to the East having a radius of 150.00 feet whose length is 163.71 feet;
2) South 10 degrees 35 minutes 00 seconds East 215.00 feet;
3) Easterly along the arc of a circular curve whose center lies to the East having a radius of 12.00 feet whose length is 18.85 feet to the northerly side of Elderwood Drive North;

SCHEDULE A (cont'd)

THENCE southerly along Elderwood Drive North the following 2 courses:

1) South 79 degrees 25 minutes 00 seconds West 107.87 feet;

2) Southerly along the arc of a circular curve whose center lies to the south having a radius of 200.00 feet whose arc length is 185.28 feet to the point or place of BEGINNING.

0800 040.00 02.00 008.000

4962 479

Standard N.Y.B.T.U. Form [illegible] Bargain and Sale Deed, with Covenant against Grantor's Acts—Individual or Corporation (Single Sheet)

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

IRS 15.40

U.S.I.R.S. 15.40 LIBER 4962 PAGE 479

THIS INDENTURE, made the 15th day of March , nineteen hundred and sixty-one

BETWEEN

GYRODYNE COMPANY OF AMERICA, INC.,
a domestic corporation having its principal place of business
at Flowerfield, Town of Smithtown, Suffolk County, New York

Fee 31 Receipt # 50314

party of the first part, and

LONG ISLAND LIGHTING COMPANY, a New York corporation,
having its principal office at 250 Old Country Road,
Mineola, Nassau County, New York

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

info-only

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being ~~in the~~ at Flowerfield, Town of Smithtown, County of Suffolk, and State of New York, bounded and described as follows:

BEGINNING at a point on the easterly side of Mills Pond Road at a point where the south-westerly corner of premises herein described and the north-westerly corner of land now or formerly of John Sweek, intersects the said easterly side of Mills Pond Road, said point of beginning being also distant 503.20 feet northerly from a point where the northerly line of the land of Long Island Railroad intersects the easterly side of Mills Pond Road.

Thence north 1 degree 51 minutes 20 seconds west along the easterly side of Mills Pond Road 30.13 feet;

Thence North 82 degrees 43 minutes 50 seconds east 278 feet;

Thence North 40 degrees 25 minutes 42 seconds east 44.38 feet;

Thence North 1 degree 52 minutes 30 seconds west 155.69 feet;

Thence North 88 degrees 07 minutes 30 seconds east 136.16 feet;

Thence South 71 degrees 24 minutes 39 seconds east 80 feet to land of Long Island Railroad;

Thence along said land of Long Island Railroad South 19 degrees 19 minutes 30 seconds west 54.31 feet to a railroad monument;

Thence southerly still along land of Long Island Railroad along the arc of a circle bearing to the right having a radius of 1399.14 feet a distance of 136.20 feet to a round concrete monument and land now or formerly of John Sweek;

Thence south 82 degrees 43 minutes 50 seconds west along said land now or formerly of John Sweek and passing through a round concrete monument 444.70 feet to the easterly side of Mills Pond Road at the point or place of beginning.

p/o 0800 040.00 02.00 008.000

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.
The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

SEAL 1946

GYRODYNE COMPANY OF AMERICA, INC.

By [signature]

4952 page 480

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF SUFFOLK ss:

On the 15 day of March 19 61, before me personally came Peter J. Papadakos to me known, who, being by me duly sworn, did depose and say that he resides at Mx. Mills Pond Road, St. James, New York ; that he is the President of Gyrodyne Company of America, Inc., the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

Joseph L. Dorn
Notary Public State of New York
Qualified in Suffolk County
No. 52-1000050
My Commission Expires March 30, 1963

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. ; that he knows to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed h name as witness thereto.

TITLE No. 31141 I. E.

TO

Bargain and Sale Deed
With Covenant Against Grantor's Acts

The land affected by the within instrument lies in Section in Block on the Land Map of the County of

RECORDED AT REQUEST OF

LONG ISLAND LIGHTING CO
250 OLD COUNTRY ROAD
MINEOLA, L.I., NEW YORK
ATT: EDWARD J. WALSH, JR.

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by
THE TITLE GUARANTEE COMPANY
CHARTERED 1883 IN NEW YORK

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

RECORDED

MAR 21 1 42 PM '61
NORMAN E. KLIPP
CLERK OF
SUFFOLK COUNTY

RECORDED
MAR 21 1961
@ 1:42 P M.
NORMAN E. KLIPP
Clerk of Suffolk County

913-48

Northport, N.Y.; that he is and then was acquainted with Wm. B.Codling, C.E.Robertson & Edwin N. Rowley, and knew them to be the individuals described in and who executed the foregoinginstrument,and that he,said subscribing witness,was present andsaw them execute the same,and that he,said witness,thereupon subscribed hisname as a witness thereto. L.S. Thomas A. Powell, Notary Public, Suffolk County, N.Y.

Recorded 24 August 1915 @ 8 A.M.
James F. Richardson Clerk

L 913 p 48

THIS AGREEMENT, made this twenty first day of July, 1911, between JOHN LEWIS CHILDS, partyof the first part, and the LONG ISLAND LIGHTING COMPANY, a domestic corporation, hereinafter called the "ELECTRIC LIGHT COMPANY", party of the second part, WITNESSETH, that in consideration of the sum of one ($1.00) dollar by each to the other in hand paid, the receipt whereof is hereby mutually acknowledged,and of the covenants and agreements herein contained,the parties hereto,for themselves,their successors and assigns,hereby covenant and agree as follows: FIRST. The partyof the first part grants to the Electric Light Company the right to erect and maintain lines or wire for the transmission of electric current for light,heat and power, including the necessary poles,cross arms,wires, cables,guys,anchors and appurtenances,upon and alongthe private road leading from a point situated about three hundred (300) feet more or less, north of the Oxhead Road where the same crosses the Stony Brook to Ronkonkoma Road;thence in a westerly direction to what is commonly called McKittrick's Crossing. SECOND. The Electric Light Company hereby agrees to erect only straight, selected poles and that all work necessary to erect and maintain the hereinbefore mentioned lines shall be done under the direction and supervision of the party of the first part, or his agent. THIRD. The Electric Light Company agrees not to place upon any pole more than two cross arms for its wires andcables. FOURTH. The Electric Light Company further agrees that in the event of the property being sold, transferred or in any way disposed of by the party of the first part to transfer the poles,wires and appurtenances to the nearest street or highway leading across the property in the hereinbefore mentioned directions as shall be designated by the then owner or owners, or at the option of the partyof the first part in case of such sale or transfer,the Electric Light Company hereby agrees to either transfer

See release re Electric Easement L 6013 p 339 (as to 1 pole only.)

said poles,wires and appurtenances to along the southerly boundary line of the prop... ty of the party of the first part or purchase a strip of land ten (10) feet wide along such southern boundary line at a pro rata price per acre, which was paid or received for such sale, on which to place such construction. FIFTH. The Electric Light Company agrees to assume all risk or liability for damage by reason of said pole line,wires etc., to be constructed across said property. IN WITNESS WHEREOF, The party of the first part has hereunto set his hand and seal and the party of the second part has hereunto subscribed its nameby its District Manager,who is duly authorized thereto by its Board of Directors and affixed hereto its corporate seal by like order.

JOHN LEWIS CHILDS, L.S.

LONG ISLAND LIGHTING COMPANY

(L.S.)

BY N.L.PIDGEON,District Manager.

State of New York, County of Nassau, SS: On this 19 day of July,1911 , before me personally appeared John Lewis Childs,to me known and known to me to be the individual described in and who executed the foregoing instrument,and he duly acknowledged to me that heexecuted the same. Arthur H.Goldsmith, Notary Public, Nassau County, N.Y.

State of New York, County of Suffolk, SS: On this 21 day of July, 1911, before me personally appeared N.L.Pidgeon,who being by me duly sworn did depose and say that he resides at Northport, New York;that he is the District Manager of the Long Island Lighting Company,the corporation described in and which executed the foregoing instrument; that he knew the seal of the said corporation; that the seal affixed to said was such corporate seal and was so affixed by order of the Board of Directors. [illegible] Powell, Notary Public, Suffolk Co., N.Y.

Recorded 24 August 1915 @ 8 A.M.

James F. Richardson Co.

RECEIVED from the NORTH SHORE ELECTRIC LIGHT AND POWER COMPANY, one dollars , in consideration of which I hereby grant unto said Company, its successors and assigns,the right, privilege and authority to construct, re-construct, operate and maintain, its transmission lines for conducting electricity,including such poles,cross arms,wires,cables,guys, stubs, anchors, brace poles and appurtenances thereto as said Company may deem necessary or proper therefor, along the highways adjoining and upon , over and along the property which I claim to own, or in which I have any interest in the Town of Brookhaven, County of Suffolk, State of New York,with the right to trim from time to time, any trees along said line necessary to keep the wires cleared at least eighteen inches and to attach to trees on said highway or said property the necessary guy wires,and in full satisfaction and payment thereof. WITNESS my hand and seal this 17th day of May 1911, at Stony Brook.

(Post office address).

6013 p 339

LIBER 6013 PAGE 339

121823

THIS AGREEMENT made this 17th day of August, 1966, between the LONG ISLAND LIGHTING COMPANY, a New York Corporation duly organized and existing under and by virtue of the Laws of the State of New York, having an office at 250 Old Country Road, Mineola, Nassau County, New York, and SPRUCEDALE BUILDING CORPORATION, a domestic corporation having a place of business at 6090 Jericho Turnpike, Commack, New York and LEVITT AND SONS, INCORPORATED, a domestic corporation having a place of business at 325 Nesconset Highway, Hauppauge, New York,

WHEREAS by virtue of a certain agreement dated July 21, 1911 and recorded in the Suffolk County Clerk's Office on August 24, 1915, in Liber 913 of Conveyances at Page 48, JOHN LEWIS CHILDS granted to the LONG ISLAND LIGHTING COMPANY certain electric transmission easements as described in said easement agreement, said easements being over and along property situate at Stony Brook, in the Towns of Brookhaven and Smithtown, Suffolk County, New York and lying between Stony Brook or Gould Road on the East and the Rail Road crossing formerly known as McKittricks Crossing on the west, and,

WHEREAS by Mesne Conveyances title to a portion of the lands affected by said grant of easement has been acquired by SPRUCEDALE BUILDING CORPORATION, LEVITT AND SONS, INCORPORATED and others and,

WHEREAS, the parties hereto desire that the portion of said land and easement as set forth in said agreement hereinabove referred to owned by them be released from said easement and the parties hereto have agreed that the LONG ISLAND LIGHTING COMPANY release said portion of the easements as granted by said agreement dated July 21, 1911 as hereinabove referred to.

NOW THEREFORE, in consideration of the sum of One Dollar

($1.00) and other good and valuable considerations, the receipt of which is hereby acknowledged, the LONG ISLAND LIGHTING COMPANY does hereby release, abandon and surrender to said SPRUCEDALE BUILDING CORPORATION and LEVITT AND SONS, INCORPORATED, that portion only of said easement rights obtained by LONG ISLAND LIGHTING COMPANY by virtue of said agreement hereinabove referred to dated July 21, 1911 and recorded as aforesaid, said portion being hereby released being that portion of said easement lying between Stony Brook or Gould Road on the east and the boundary line between the Town of Smithtown and the Town of Brookhaven on the west.

It is the intention of LONG ISLAND LIGHTING COMPANY to release only the said portion of the easement granted by said agreement dated July 21, 1911, it being expressly agreed that the remaining portion of said easement lying west of said boundary line between the Town of Smithtown and Town of Brookhaven shall remain in full force and effect.

IN WITNESS WHEREOF, the LONG ISLAND LIGHTING COMPANY has caused these presents to be signed on the day and year first above written.

ATTEST:

LONG ISLAND LIGHTING COMPANY

By _____ Secretary
Asst Secretary

By _____ Vice President

STATE OF NEW YORK, }
COUNTY OF } ss.:

On the day of , one thousand nine hundred and
before me came

to me known to be the individual described in, and who executed the foregoing instrument, and acknowledged that he executed the same.

Notary Public

STATE OF NEW YORK, }
COUNTY OF } ss.:

On the day of , one thousand nine hundred and
before me came

to me known to be the individual described in, and who executed the foregoing instrument, and acknowledged that he executed the same.

Notary Public

STATE OF NEW YORK, }
COUNTY OF } ss.:

On the day of , one thousand nine hundred and
before me came , to me known,
who, being by me duly sworn, did depose and say that he resides at

in ; that he is the of

the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of of said corporation, and that he signed h name thereto by like order.

Notary Public

STATE OF NEW YORK, }
COUNTY OF NASSAU } ss.:

On the 4th day of August, one thousand nine hundred and sixty-six before me came CHARLES R. PIERCE, to me known, who, being by me duly sworn, did depose and say that he resides at 21 Wayside Lane, Lloyd Harbor, in New York ; that he is the Vice President of LONG ISLAND LIGHTING COMPANY the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

Notary Public

CHARLES H. STREATER
Notary Public, State of New York
No. 30-9218500
Qualified in Nassau County
Commission Expires March 30, 196

RECORDED

AUG 17 1966
@ 10-40 A. M.
NORMAN E. KLIPP
Clerk of Suffolk County

4898 482

LIBER 4898 PAGE 482

Fee Receipt #

RESTRICTIVE COVENANT

WHEREAS, by petition verified June 28, 1960, the undersigned, GYRODYNE COMPANY OF AMERICA, INC., a corporation having offices at Flowerfield, Town of Smithtown, Suffolk County, New York, made application to the Town Board of the Town of Smithtown for a change of zone of certain of its real property located in Flowerfield, Town of Smithtown, Suffolk County, New York, from "A" Residence District classification to "G" Industrial District (Light Industrial) classification, as defined in the Building Zone Ordinance and Map of the Town of Smithtown, and

WHEREAS, after public hearing held upon said application on July 12, 1960, the Town Board of the Town of Smithtown, by resolution duly adopted on September 15, 1960, granted the application of said GYRODYNE COMPANY OF AMERICA, INC. to the extent that the following described real property was placed within the "G" Industrial District (Light Industrial) zone and classification as defined by the Building Zone Ordinance and Map of the Town of Smithtown:

ALL that certain plot, piece or parcel of land situate lying and being at Flowerfield in the Town of Smithtown, Suffolk County, New York more particularly bounded and described as follows:

BEGINNING at a point formed by the intersection of the northerly line of land now or formerly of Annie E. Newton with the westerly line of the Long Island Railroad right-of-way;

Thence, along said northerly line of Annie E. Newton South 82°43'50" West a distance of 266.14 feet;

Thence, North 2°57'50" East a distance of 188.10 feet along the easterly boundary of land now or formerly of Semerad;

Thence, North 3°00'40" East a distance of 181.70 feet along the easterly boundary of land now or formerly of Lampe;

Thence, North 2°01'45" East a distance of 252.76 feet along the easterly boundary of land now or formerly of Robert Elderkin;

Thence, North 2°11'50" West a distance of 265 feet along the easterly boundary of land now of Jankowski;

Thence, North 18°58'50" West a distance of 349.88 feet;

Thence, North 0°28'20" West a distance of 678.25 feet to the southeasterly corner of land now or formerly of Louise Heisler;

Thence, along the northeasterly boundary of land now or formerly of Louise Heisler North 53°20'30" West a distance of 321.62 feet to the southerly side of North Country Road;

Thence along the southerly side of North Country Road the following six courses and distances:

1) North 35°33'40" East a distance of 790.80 feet

2) North 38°50'30" East a distance of 178.77 feet

3) North 45°48' East a distance of 272.39 feet

4) North 54°24' East a distance of 321.35 feet

5) North 60°51'50" East a distance of 412.47 feet

6) North 43°20'40" East a distance of 192.72 feet;

Thence, South 34°06'20" East a distance of 390.15 feet to a point on a common boundary line between the Town of Smithtown and the Town of Brookhaven;

Thence, along said common boundary line South 11°46' 40" East a distance of 40.94 feet to a point on the westerly line of the Long Island Railroad right-of-way;

Thence, along said westerly line of the Long Island Railroad right-of-way the following two courses and distances:

1) South 19°19'30" West a distance of 3,247.72 feet

2) Along the arc of a curve bearing to the right having a radius of 1,399.14 feet a distance of 136.20 feet to the point or place of beginning, and

WHEREAS, the said resolution of the Town Board of the Town of Smithtown adopted on September 15, 1960, and the change of zone granted thereby were made upon two conditions, and

WHEREAS, the first of said condition requires that GYRODYNE COMPANY OF AMERICA, INC. execute and cause to be

recorded in the Suffolk County Clerk's Office, a restrictive covenant providing that GYRODYNE COMPANY OF AMERICA, INC., its successors and assigns will not construct, erect or place any building on certain portions of its property frontage upon North Country Road, and

WHEREAS, the second of said conditions requires that any parking lot or parking area constructed by GYRODYNE COMPANY OF AMERICA, INC. upon certain portions of its property be screened from certain adjoining residential properties,

NOW, THEREFORE, in compliance with the conditions contained in the aforesaid resolution of the Town Board of the Town of Smithtown adopted on September 15, 1960, as aforesaid, GYRODYNE COMPANY OF AMERICA, INC. covenants:

1. That, at no time, will GYRODYNE COMPANY OF AMERICA, INC., its successors or assigns construct, erect or place any building on that portion of its real property located at Flowerfield, Town of Smithtown, New York, bounded:

a) on the north by the southerly line of North Country Road (State Route 25A);

b) On the south by an imaginary line drawn parallel to and two hundred (200) feet southerly from the southerly line of North Country Road (State Route 25A);

c) on the west by land now or formerly of Heisler; and

d) on the east by the current easterly boundary of property of GYRODYNE COMPANY OF AMERICA, INC.

2. That any parking lot or parking area constructed by GYRODYNE COMPANY OF AMERICA, INC., its successors or

assigns, within one hundred (100) feet of the easterly boundary of lands now or formerly of Jankowski, Elderkin, Lampe and Semerad shall be screened from said properties by the installation and maintenance of ten (10) feet of lawn area immediately east of said easterly line of said properties, followed by the installation and maintenance of a natural screen of Norway Spruce immediately east of said ten (10) feet of lawn area and followed by the installation and maintenance of a five (5) foot area of lawn between the said Norway Spruce and the westerly most portion of the improved surface of the parking area, said combined lawn and planting area to be of a width equal to that of said parking area.

IN WITNESS WHEREOF, the said GYRODYNE COMPANY OF AMERICA, INC. has caused its corporate seal to be hereunto affixed and these presents to be signed by the duly authorized officer this 26th day of October, 1960.

GYRODYNE COMPANY OF AMERICA, INC.

By: _____
Peter J. Papadakos, President

LIBER 4898 PAGE 486

STATE OF NEW YORK)
) SS:
COUNTY OF SUFFOLK)

On the 26th day of October, 1960, before me personally came PETER J. PAPADAKOS, to me known, who, being by me duly sworn, did depose and say that he resides at Mill Pond Road, Ft Jefferson, New York that he is the President of the GYRODYNE COMPANY OF AMERICA, INC., the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation, that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

JOHN V. N. KLEIN

JOHN V. N. KLEIN
Notary Public, State of New York
No. 52-7294035, Suffolk County
Term Expires March 30, 1962

RECORDED
OCT 31 1960
@ 10:40 A.M.
NORMAN E. KLIPP
Clerk of Suffolk County

LIBER 5674 PAGE 11

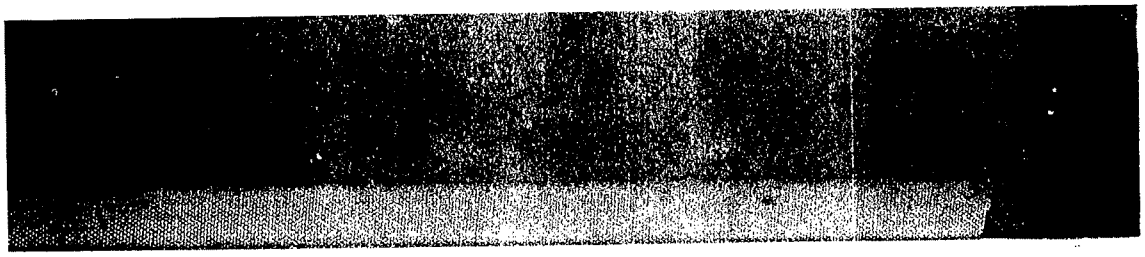
Fee 32.50
Receipt # [illegible]

AGREEMENT

-between-

GYRODYNE COMPANY OF AMERICA, INC., THE CHASE MANHATTAN BANK, OLIVER HAZARD PERRY, AUDREY PERRY BURNIER, MATHILDE E. PERRY, TOWN OF SMITHTOWN and INCORPORATED VILLAGE OF HEAD OF THE HARBOR.

Dated: April 28, 1964.

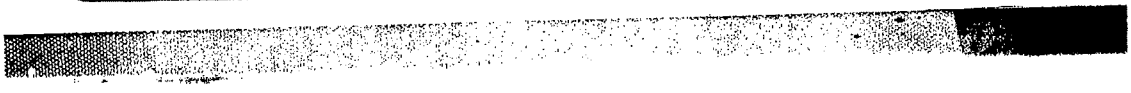


LIBER 5674 PAGE 12

MEMORANDUM OF AGREEMENT, made this 28th day of April, 1964, between GYRODYNE COMPANY OF AMERICA, INC., a corporation having its principal office and place of business at Flowerfield, Town of Smithtown, County of Suffolk, State of New York, FIRST PARTY; THE CHASE MANHATTAN BANK, a banking corporation having its principal office and place of business at One Chase Manhattan Plaza, Borough of Manhattan, City and State of New York, individually and as agent under Credit Agreement dated as of December 30, 1960, between Gyrodyne Company of America, Inc., and The Chase Manhattan Bank, The Franklin National Bank of Long Island, New York Business Development Corporation and Bank of Smithtown, as amended by a supplemental agreement dated August 19, 1961, SECOND PARTY; OLIVER HAZARD PERRY, of 212 Dawley Road, Fayetteville, New York, and AUDREY PERRY BURNIER, of 3543 Third Avenue, San Diego, California, THIRD PARTIES; MATHILDE D. PERRY of St. James, New York, FOURTH PARTY; the TOWN OF SMITHTOWN, FIFTH PARTY, and the INCORPORATED VILLAGE OF HEAD OF THE HARBOR, SIXTH PARTY;

W I T N E S S E T H:

WHEREAS, the Town Board of the Town of Smithtown by resolution adopted September 15, 1960 granted an application of FIRST PARTY to the extent that certain property owned by FIRST PARTY within the boundaries or which the property of FIRST PARTY hereinafter described is situated was reclassified by amendment of the Building Zone Ordinance and Map of the Town of Smithtown; and



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WHEREAS, as a condition to the change of zone effected by said resolution of September 15, 1960 the Town of Smithtown required FIRST PARTY to execute and record a certain restrictive covenant recorded in the Smithtown County Clerk's Office on October 30, 1960 in Liber 4898, cp. 482; and

WHEREAS, thereafter an action was instituted in the Supreme Court, Suffolk County, entitled "John M. Perry, Mathilde L. Perry, Jean M. Dougherty, Louise Heisler, Katherine Jankowski, Neil Gargullo, Mary Gargullo, Robert B. Elderkin, Martha Elderkin, Janet S. Elderkin, Marie A. Bauer, John G. Sweek, Phyllis Sweek, Jay Gaines, Marcia Gaines, Benjamin Yablonski, Edwin Yablonski, Carol L. Strauss, Mildred Smith, Josepaine Smith, Malcolm R. Smith and the Incorporated Village of Head of the Harbor, Plaintiffs, Against- Town of Smithtown and Cyrodyne Company of America, Inc., Defendants.", Index Number 73281/1961, praying judgment:-

(a) Declaring the amendment of the Building Zone Ordinance and Official Zoning Map of the Town of Smithtown, adopted September 15, 1960 unconstitutional, illegal and ineffective;

(b) Restraining the Town of Smithtown and its officers, agents and employees from doing any acts pursuant thereto;

(c) Restraining defendant Cyrodyne Company of America, Inc., from devoting any of its real

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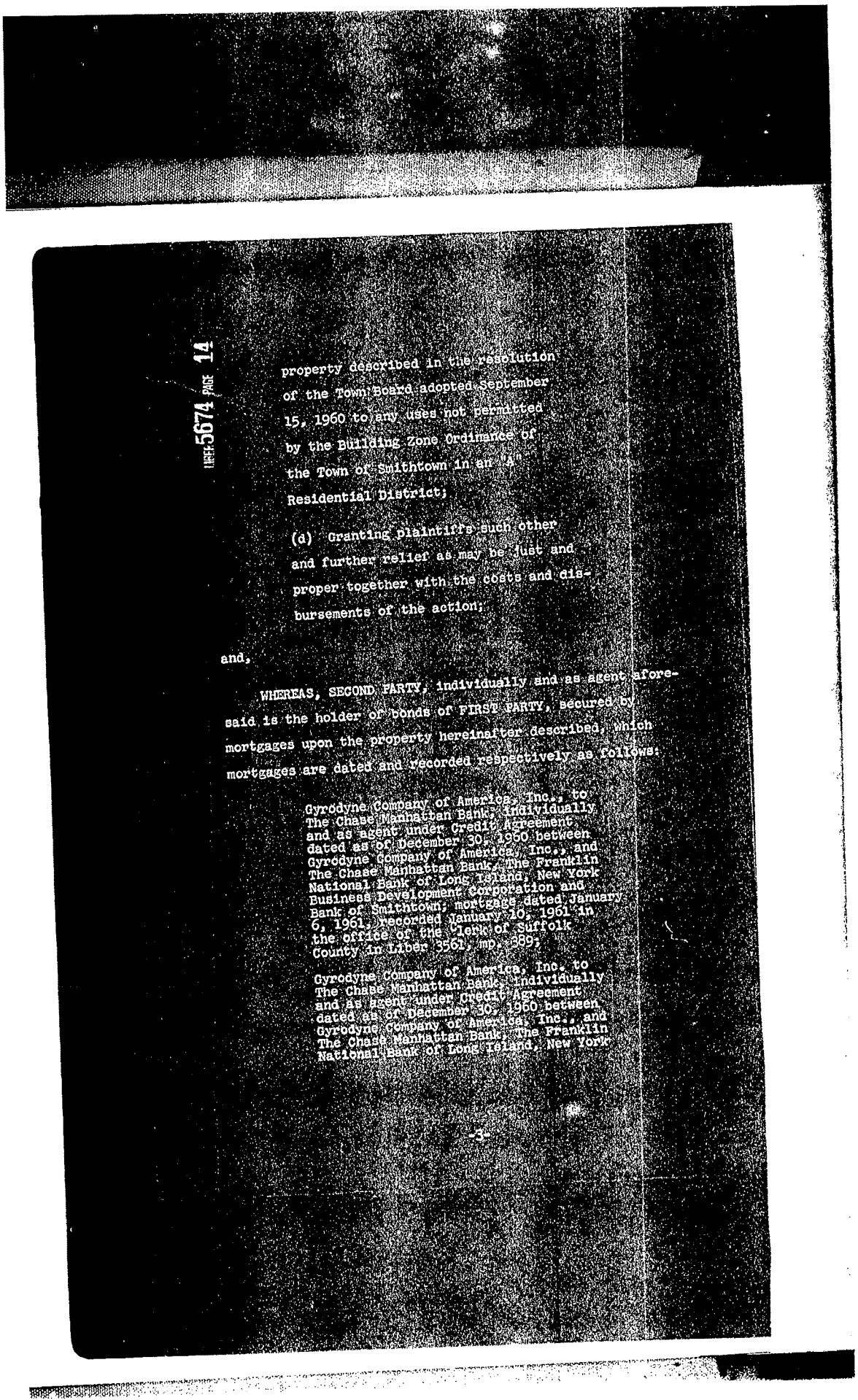

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property described in the resolution of the Town Board adopted September 15, 1960 to any uses not permitted by the Building Zone Ordinance of the Town of Smithtown in an "A" Residential District;

(d) Granting plaintiffs such other and further relief as may be just and proper together with the costs and disbursements of the action;

and,

WHEREAS, SECOND PARTY, individually and as agent aforesaid is the holder of bonds of FIRST PARTY, secured by mortgages upon the property hereinafter described, which mortgages are dated and recorded respectively as follows:

Gyrodyne Company of America, Inc., to The Chase Manhattan Bank, individually and as agent under Credit Agreement dated as of December 30, 1960 between Gyrodyne Company of America, Inc., and The Chase Manhattan Bank, The Franklin National Bank of Long Island, New York Business Development Corporation and Bank of Smithtown; mortgage dated January 6, 1961, recorded January 10, 1961 in the office of the Clerk of Suffolk County in Liber 3561, mp. 389;

Gyrodyne Company of America, Inc. to The Chase Manhattan Bank, individually and as Agent under Credit Agreement dated as of December 30, 1960 between Gyrodyne Company of America, Inc., and The Chase Manhattan Bank, The Franklin National Bank of Long Island, New York

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Business Development Corporation and Bank of Smithtown as amended by Supplemental Agreement dated August 19, 1961; mortgage dated August 18, 1961, recorded August 22, 1961 in the office of the Clerk of Suffolk County in Liber 3588, mp. 21;

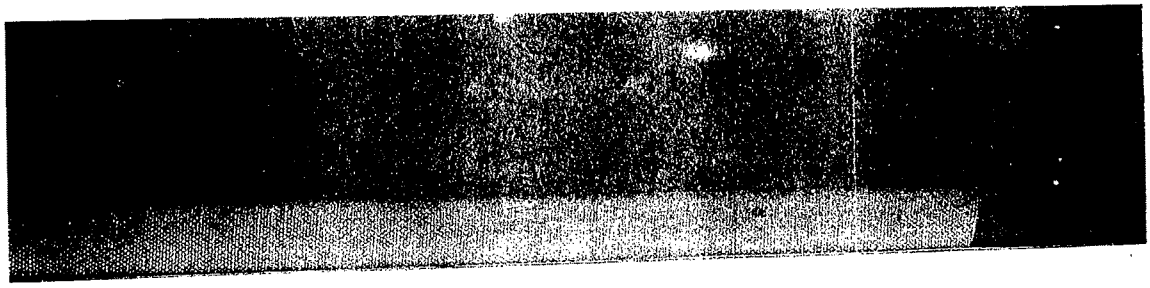
and,

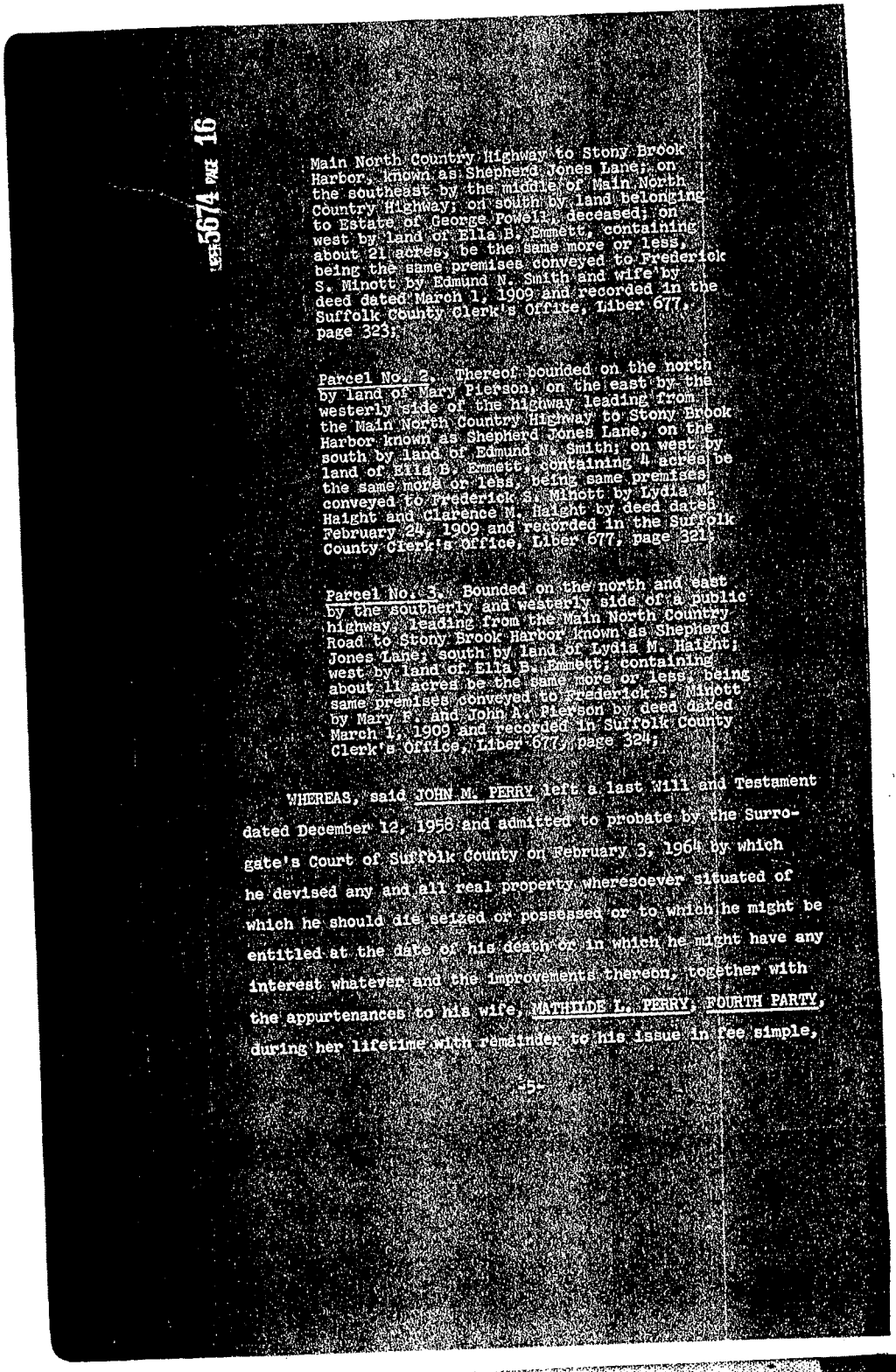
WHEREAS, the latter mortgage dated August 18, 1961 by language therein contained was consolidated with the mortgage recorded in Liber 3561, mp. 389 to form a single first mortgage lien; and

WHEREAS, the aforesaid action is now pending and the parties desire to declare their respective rights and legal relations and those of their successors and assigns in and with relation to the real property hereinafter described by mutual covenant running with said real property and thereafter to discontinue the aforesaid action thereby avoiding the expense thereof;

WHEREAS, JOHN M. PERRY, one of the plaintiffs in the aforesaid action, died on the 16th day of January, 1964, seized and possessed of real property situated on North Country Road, St. James, Suffolk County, New York, acquired by deed dated July 17, 1917 and recorded in the office of the County Clerk of Suffolk County, in Liber 961 of Conveyances, page 205, January 3, 1918, and bounded and described as follows:

Parcel No. 1. Bounded on the north by land of Lydia M. Haight; and land of Ella B. Emmett; on east by westerly side of public highway from





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Main North Country Highway to Stony Brook Harbor, known as Shepherd Jones Lane; on the southeast by the middle of Main North Country Highway; on south by land belonging to Estate of George Powell, deceased; on west by land of Ella B. Emmett, containing about 21 acres, be the same more or less, being the same premises conveyed to Frederick S. Minott by Edmund N. Smith and wife by deed dated March 1, 1909 and recorded in the Suffolk County Clerk's Office, Liber 677, page 323;

Parcel No. 2. Thereof bounded on the north by land of Mary Pierson, on the east by the westerly side of the highway leading from the Main North Country Highway to Stony Brook Harbor known as Shepherd Jones Lane, on the south by land of Edmund N. Smith; on west by land of Ella B. Emmett, containing 4 acres be the same more or less, being same premises conveyed to Frederick S. Minott by Lydia M. Haight and Clarence M. Haight by deed dated February 24, 1909 and recorded in the Suffolk County Clerk's office, Liber 677, page 321;

Parcel No. 3. Bounded on the north and east by the southerly and westerly side of a public highway, leading from the Main North Country Road to Stony Brook Harbor known as Shepherd Jones Lane; south by land of Lydia M. Haight; west by land of Ella B. Emmett; containing about 11 acres be the same more or less, being same premises conveyed to Frederick S. Minott by Mary E. and John A. Pierson by deed dated March 1, 1909 and recorded in Suffolk County Clerk's Office, Liber 677, page 324;

WHEREAS, said JOHN M. PERRY left a last Will and Testament dated December 12, 1958 and admitted to probate by the Surrogate's Court of Suffolk County on February 3, 1964 by which he devised any and all real property wheresoever situated of which he should die seized or possessed or to which he might be entitled at the date of his death or in which he might have any interest whatever and the improvements thereon, together with the appurtenances to his wife, MATHILDE L. PERRY, FOURTH PARTY, during her lifetime with remainder to his issue in fee simple,

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per stirpes; and

WHEREAS, OLIVER HAZARD PERRY and AUDREY PERRY BURNIER, THIRD PARTIES, constitute the issue of JOHN M. PERRY, deceased, and are now seized of the aforesaid real property in fee simple subject to the life estate of FOURTH PARTY; and

WHEREAS, FOURTH PARTY, is seized and possessed of real property situated on North Country Road, St. James, Suffolk County, New York, acquired by deed dated March 17, 1949 and recorded in the office of the County Clerk of Suffolk County in Liber 2942 of Conveyances, page 463, April 26, 1949, and bounded and described as follows:

BEGINNING at a locust stake in the northerly line of the land hereby conveyed, which stake is at the southwest corner of the farm of Edward N. Smith; running N. 83° 21' W. 22.3 feet to a locust stake; S. 21° 22' W. 642.3 feet to locust stake; thence S. 42° 16' E. 504.3 feet to highway leading from Smithtown to Stony Brook; thence northeast along highway to land of above named Edward N. Smith; thence west along land to point or place of beginning containing by estimation 9½ acres of land, more or less, together with all interest in highway adjoining premises.

NOW, THEREFORE, in consideration of the mutuality hereof and other good and valuable consideration moving between the parties the parties have agreed:

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d. Upon the execution and delivery of this instrument the aforesaid action shall be discontinued by consent without costs to any party as against any other party.

2. [illegible], its successors and assigns will at no time construct, erect or place any building other than single-family dwelling or dwellings and buildings accessory thereto on that portion of its real property located at Flowerfield, Town of Smithtown, Suffolk County, New York, bounded and described as follows:

BEGINNING at a monument set in the southeasterly line of North Country Road where said line is intersected by the northeasterly line of land now or formerly of Louise Heisler; running from said point of intersection North 35° 53' 40" East 790.80 feet along the southeasterly line of said road to a point on the southeasterly line of said road; thence North 38° 50' 30" East 178.47 feet still along the southeasterly line of said road to a point on the southeasterly line of said road; thence North [illegible] East 272.39 feet still along the southeasterly line of said road to a point on the southeasterly line of said road; thence North 54° 24' East 321.35 feet still along the southeasterly side of said road to a point on the southeasterly side of said road; thence North 60° 51' 50" East 236.78 feet still along the southeasterly side of said road to a point on the southeasterly line of said road; thence North 43° 20' 40" East 198.72 feet still along the southeasterly side of said road to a point on the southeasterly side of said road; thence South [illegible] West 943.62 feet to a point; thence South [illegible] West [illegible] feet to a point; thence South 38° 50' 30" West [illegible] feet to a point; thence South

35° 33' 20" West 787.96 feet to land now or formerly of Louise Heisler; thence North [illegible] 20' 30" West along said land now or formerly of Louise Heisler 300.05 feet to the point or place of beginning.

3. No parking lot or parking area shall be constructed or maintained by FIRST PARTY, its successors or assigns, within one hundred feet of the southeasterly line of North Country Road except where the distance between the southeasterly line of North Country Road and the southeasterly boundary of the property hereinbefore described in paragraph 2 hereof is less than one hundred feet in which case no parking lot or parking area shall be constructed or maintained between the southeasterly side of Old Country Road and the southeasterly boundary of said property and, provided further, before devoting any portion of said property described in paragraph 2 hereof to use as a parking lot or parking area said parking lot or parking area shall be screened from North Country Road by the installation and maintenance of a natural screen of Norway Spruce immediately northwest of and along the line of the northwesterly boundary of such parking lot or parking area to full length thereof from west to east.

4. Any parking lot or parking area constructed by FIRST PARTY, its successors or assigns within 100 feet of the easterly boundary of land now or formerly of Jankowski, Elderkin, Lampe and Semerad shall be screened from said properties by the installation and maintenance of [illegible] feet of lawn immediately east of the easterly line of said properties, followed by the installation and maintenance of a natural screen of Norway Spruce immediately east of said [illegible] feet of lawn area and followed by the installation and maintenance of a five foot area of lawn between said Norway Spruce and the westerly-most portion of the improved surface of the parking area, said combined lawn and planting area to be of a width equal to that of said parking area.

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Oliver Hazard Perry

Audrey Perry Burnier

Mathilde L. Perry

TOWN OF SMITHTOWN,

By

INCORPORATED VILLAGE OF HEAD OF THE HARBOR,

By

MAYOR

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State of New York,)
) ss.:
County of Suffolk.)

On the 23rd day of November, 1964, before me personally came PETER J. PAPADAKOS, to me known, who, being by me duly sworn, did depose and say that he resides at No. Number, Mills Pond Road, St. James, NY ; that he is the President of GYRODYNE COMPANY OF AMERICA, INC., the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

(Notary Public)

JOSEPH L. DORN
NOTARY PUBLIC, State of New York
No. 52-1000050
Qualified in Suffolk County
Commission Expires March 30, 195_

State of New York)
) ss.:
County of New York)

On the 9th day of November, 1964, before me personally came Bernard J. Cassidy, to me known, who, being by me duly sworn, did depose and say that he resides at No. 1916 East 23rd Street, Brooklyn 15, New York ;