R & L CONSTRUCTION SERVICES

1701 W. HILLSBORO BLVD. #208 PO BOX 162
DEERFIELD BEACH, FL 33442 MONTICELLO, NY 12701
TEL. (954)360-9496 FAX (954) 360-9326

PROJECT: WILLOW CREEK APARTMENTS
HARTFORD, CT
MARCH 2018
R & L #12764

MASTER RECAP. SHEET **SHEET NO. 1** **OF NO. 4**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE CLEARING AND EARTHWORK						
	1	visit site area to determine existing conditions allow		ls				
	2	protection work (from site visit) allow		ls				
	3	removal work						
		pavement	520	sf				
		walks	150	sf				
		bit curbs	92	lf				
		signs (salvage for reuse)	4	ea				
		note: all other demolition assumed to be already completed						
	4	engineering and layout work allow		ls				
	5	clear and grub site area (5.6 ac) allow		ls				
	6	strip and stockpile topsoil						
		assume 6" 5.6 ac	4512	cy				
	7	site excavation work						
		cut work	944	cy				
		fill work	5213	cy				
		graded area	5.0	ac				
	8	building excavation work						
		general cut	2778	cy				
		trenching and footing	2067	cy				
		backfill work						
		exterior	736	cy				
		interior	508	cy				
		interior (to bring to subslab elevation and replace fill material) (structural fill)						
			4185	cy				
		graded area	28500	sf				

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MASTER RECAP. SHEET **SHEET NO. 2** **OF NO. 4**

	NO.	GENERAL DESCRIPTION		QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE CLEARING AND EARTHWORK (CONT.)							
	9	structural fill below foundations							
		12" thick (labor and material)	17325 sf	642	cy				
		geotextile fabric (+10%)		54300	sf				
	10	porous fill below slabs on grade							
		12" thick, crushed stone (labor and material)	27000 sf	1000	cy				
	11	excavation for storm drainage							
		trenching work		2600	cy				
		backfill work							
		bedding material (3/4" crushed stone) (labor and material)		1107	cy				
		clean fill		1248	cy				
		filter fabric (around stone) (+10%)		29776	sf				
		warning tape (+10%)		3940	lf				
		trench box sheeting							
		6'-0 wide x 8'-0 high		205	lf				
		note: used detail on dwg CD-503 for roof drains and detail on dwg CD-504 for balance of storm drainage							
	12	excavation for sewer							
		trenching work		1087	cy				
		backfill work							
		bedding material (3/4" crushed stone) (labor and material)		128	cy				
		sand (labor and material)		200	cy				
		bank run gravel (labor and material)		655	cy				
		clean fill		89	cy				
		warning tape (+10%)		635	lf				
		trench box sheeting							
		6'-0 wide x 8'-0 high		340	lf				

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MASTER RECAP. SHEET **SHEET NO. 3** **OF NO. 4**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE CLEARING AND EARTHWORK (CONT.)						
	13	excavation for water						
		trenching work	588	cy				
		backfill work						
		bedding material (sand) (labor and material)	328	cy				
		bank run gravel (labor and material)	75	cy				
		clean fill	180	cy				
		warning tape (+10%)	1990	lf				
	14	excavation for site electric and communication conduit						
		trenching work	383	cy				
		backfill work						
		bedding material (sand) (labor and material)	127	cy				
		clean fill	248	cy				
		warning tape (+10%)	1716	lf				
	15	excavation for gas						
		trenching work	265	cy				
		backfill work						
		bedding material (sand) (labor and material)	97	cy				
		dense graded aggregate (labor and material)	65	cy				
		clean fill	100	cy				
		warning tape (+10%)	1100	lf				
	16	respread topsoil and seeded area						
		6" topsoil 3.3 ac	2659	cy				
		seeded area	3.3	ac				
	17	hand labor allow		ls				
	18	compaction work and testing allow		ls				

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MASTER RECAP. SHEET **SHEET NO. 4** **OF NO. 4**

NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
	SITE CLEARING AND EARTHWORK (CONT.)						
19	pumping and dewatering allow		ls				
20	dust control allow		ls				
21	remove excess material from site						
	clean fill	2390	cy				
	topsoil	1853	cy				
22	material rquired from outside source						
	structural fill	4185	cy				
	NOTES:						
1	all excavated materials assumed to be clean fill						
2	quantities do not include factors for compaction or swell						
3	assume 3'-0 of fill material to be removed and replaced from building 1 thru 9						

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MASTER RECAP. SHEET **SHEET NO. 1** **OF NO. 1**

	NO.	GENERAL DESCRIPTION		QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SOIL EROSION WORK							
	1	silt fence		4600	lf				
	2	silt fence inlet protection		30	ea				
	3	stabilized construction entrance							
		4" thick, 2" dia stone	3000 sf	37	cy				
		filter fabric (+10%)		3300	sf				
	4	concrete washout facility with haybales		2	ea				

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MASTER RECAP. SHEET **SHEET NO. 1** **OF NO. 4**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE IMPROVEMENTS						
	1	pavement						
		a) standard duty						
		1 1/2" bit conc, class 2						
		tack coat						
		2" bit conc, class 1						
		6" processed aggregate base						
		10" subbase	2862	sy				
		b) city of Hartford						
		1 1/2" bit conc, class 1						
		3 1/2" bit conc, class 4						
		12" processed traprock	1604	sy				
		c) temporary drives						
		2 1/2" bit conc, class 2						
		10" processed aggregate base	828	sy				
		d) temporary walks						
		2 1/2" bit conc, class 2						
		10" processed aggregate base	145	sy				
	2	gravel turn-around (see dwg CE-101)						
		no detail shown	7800	sf				
	3	concrete walks and pads						
		a) typical						
		5" conc						
		12" traprock						
		finish area						
		scored area	12295	sf				
		expansion joint filler (1/2" x 5")	860	lf				
		turned down edge mono (670 lf) one side forms	784	sf				
		conc	23	cy				
		detectable warning surface	162	sf				

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MASTER RECAP. SHEET

SHEET NO. 2 **OF NO. 4**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE IMROVEMENTS (CONT.)						
	3	concrete walks and pads (cont.)						
		b) at stairs						
		5" conc						
		mesh						
		12" traprock						
		finish area						
		scored area						
		expansion joint filler	1360	sf				
		turned down edge mono (25 lf) one side forms	285	sf				
		conc	12	cy				
		insulation (if required)						
		XPS, R-6	1360	sf				
		c) site furnishings pads						
		5" conc						
		mesh						
		12" processed aggregate base						
		finish area						
		scored area	210	sf				
		d) dumpster pad						
		8" conc						
		mesh						
		12" processed aggregate base						
		finish area						
		scored area	327	sf				
	4	temporary bit conc lip curb	120	lf				

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	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE IMROVEMENTS (CONT.)						
	5	granite curbs						
		+/- 6" x 20" (with concrete at joints)	635	lf				
		+/- 6" x 20" (radius)	75	lf				
		traprock base	70	cy				
		concrete setting bed (at radius curbs)	75	lf				
	6	precast concrete curbs						
		+/- 6" x 18" or 6" x 20" (with concrete at joints)	990	lf				
	7	dumpster enclosure fence (see dwg CD-514)						
		7'-0 high	54	lf				
		gates						
		3'-0 x 7'-0 high	1	ea				
		2- 5'-0 x 7'-0 high	2	pr				
	8	bollards						
		6" dia x 8'-0 long	4	ea				
		concrete footing						
		30" dia x 4'-6 deep (4 ea) sonotube forms	18	lf				
		conc	4	cy				
	9	bike racks and bike shelter (see dwg CD-513)						
		long term (4 spaces)	1	ea				
		short term (4 spaces)	1	ea				
	10	trash receptacle	1	ea				

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	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE IMROVEMENTS (CONT.)						
	11	signage						
		"stop"	4	ea				
		"bike route" and " begin"	1	ea				
		reinstall salvaged signs	4	ea				
		handicap parking	5	ea				
	12	painted lines						
		auto parking						
		regular	52	ea				
		handicap	5	ea				
		parallel (at existing Berkeley Drive)	15	ea				
		lines, arrows, etc allow		ls				

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MASTER RECAP. SHEET

SHEET NO. 1 **OF NO. 2**

	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		STORM DRAINAGE						
	1	piping						
		30" RCP	431	lf				
		24" RCP	184	lf				
		18" RCP	201	lf				
		15" RCP	233	lf				
		15" RCP (class 5)	212	lf				
		12" RCP	66	lf				
		18" HDPE	43	lf				
		15" HDPE	68	lf				
		12" HDPE	113	lf				
		12" HDPE (temporary)	30	lf				
		12" C900 PVC	40	lf				
		roof drains						
		6" C900 PVC	1040	lf				
		6" SDR PVC	920	lf				
		cleanouts	11	ea				
		6" wyes, bends, etc	26	ea				
		roof drain connections (if required) allow		ls				
		FES						
		30" dia	1	ea				
		cap/plug (for future connections)						
		30" dia	1	ea				
	2	structures						
		catch basin type C 0 to 4'-0 deep	5	ea				
		4'-0 x 6'-0 deep	13	ea				
		catch basin type CL 6'-0 x to 8'-0 deep	1	ea				
		yard drains 0 to 4'-0 deep	2	ea				
		4'-0 x 6'-0 deep	1	ea				

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	NO.	GENERAL DESCRIPTION		QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		STORM DRAINAGE (CONT.)							
	2	structures (cont.)							
		manholes	4'-0 to 6'-0 deep	1	ea				
			8'-0 to 10'-0 deep	2	ea				
			10'-0 to 12'-0 deep	1	ea				
		manholes (with grate)	4'-0 to 6'-0 deep	1	ea				
	3	rip rap apon							
		18" thick (modified rip rap)	100 sf	6	cy				
		6" thick (gravel base)	100 sf	2	cy				
		separator fabric		120	sf				
	4	plug existing invert (15" dia) at existing manhole		1	ea				
	5	reset cover at existing manhole		1	ea				
	6	connect new 12" RCP into existing inlet		1	ea				
	7	connect new 12" HDPE into existing inlet		1	ea				
	8	connect new 6" PVC into existing manhole		1	ea				
	9	connect temporary 12" HDPE into existing inlet		2	a				

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	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SANITARY SEWERAGE						
	1	piping						
		at Nahum Street						
		10" PVC	40	lf				
		8" PVC	272	lf				
		6" PVC (laterial to building #9)	45	lf				
		10" plug (for future connections)	1	ea				
		cleanout	1	ea				
		laterials to building 1 thru 12, excluding #9						
		size not shown	220	lf				
		connect to existing stub	11	ea				
		cleanouts	11	ea				
	2	structures						
		manholes 8'-0 to 10'-0 deep	1	ea				
		10'-0 to 12'-0 deep	1	ea				
	3	connect new 8" PVC into existing sewer stub	1	ea				
	4	testing allow		ls				

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	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		WATER DISTRIBUTION						
	1	piping						
		at Nahum Street (including future service lines)						
		4" DIP	370	lf				
		1 1/2" copper	80	lf				
		4" x 4" tee	2	ea				
		4" bends	3	ea				
		4" valve	3	ea				
		4" caps	1	ea				
		4" cap (with blow-off assembly)	1	ea				
		1 1/2" corporative	2	ea				
		1 1/2" curb stop	2	ea				
		laterals for buildings						
		4" DIP	680	lf				
		1 1/2" copper	680	lf				
		connect to existing plugs						
		4" DIP	11	ea				
		1 1/2" copper	11	ea				
		4" bends	22	ea				
		1 1/2" bends	22	ea				
	2	connect new 4" DIP into existing plug at main	1	ea				
	3	thrust blocks (at DIP only)	29	ea				
	4	testing allow		ls				
	5	disinfecting allow		ls				

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	NO.	GENERAL DESCRIPTION	QUANTITY		UNIT LAB.	TOT. LAB.	UNIT MAT.	TOT. MAT.
		SITE LIGHTING						
	1	light pole bases						
		24" dia x 4'-6 deep (19 ea) sonotube forms	86	lf				
		conc	10	cy				
	2	excavation for site lighting	1550	lf				