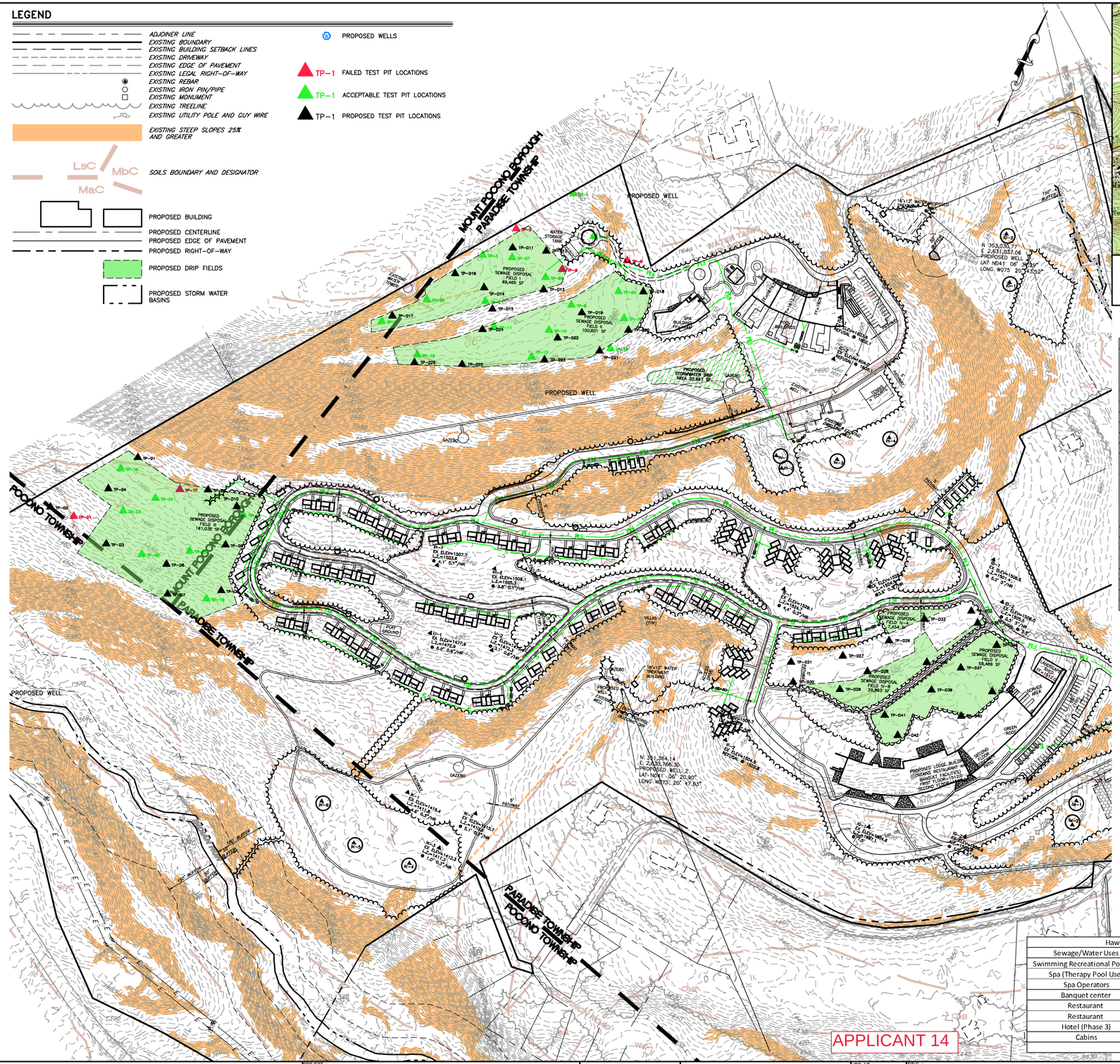
Soil Results for Area I -Lwp 15 %						
Test Pit Number	SHWT inches	Bedrock inches	Seepage inches	Conventional	Spray	Drip
1	21	33	*****	Suitable	Suitable	Suitable
2		10	*****	**Unsuitable**	**Unsuitable**	**Unsuitable**
3	21	39	*****	Suitable	Suitable	Suitable
4	20	35	*****	Suitable	Suitable	Suitable
5	21	48	*****	Suitable	Suitable	Suitable
6	*****	16	*****	**Unsuitable**	Suitable	**Unsuitable**
7	*****	22	*****	Suitable	Suitable	Maybe (PADEP Approval)
26	****	20 OVF 30 R	*****	Suitable	Suitable	Maybe (PADEP Approval)
27	****	20 OVF 30 R	*****	Suitable	Suitable	Maybe (PADEP Approval)
28	****	20 OVF 30 R	*****	Suitable	Suitable	Maybe (PADEP Approval)
D11	****	38	****	Suitable	Suitable	Suitable
D12	24	****	****	Suitable	Suitable	Suitable
D13	****	26	****	Suitable	Suitable	Suitable
D14	24	****	****	Suitable	Suitable	Suitable
D15	27	****	****	Suitable	Suitable	Suitable
D16	22	38	****	Suitable	Suitable	Suitable
D17	20	40	****	Suitable	Suitable	Suitable
Drip Area	69,465	sf	Application Rate Summer		2.25	In-Acre per week
	1.59	Acre	Application Rate Winter		2.25	In-Acre per week
			Capacity Summer		13,918	gpd
			Capacity Winter		13,918	gpd

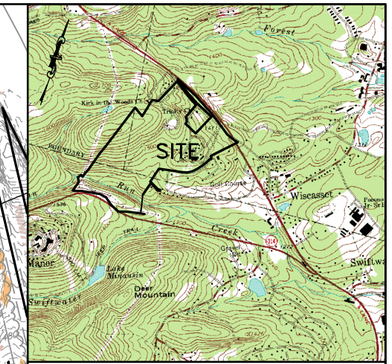
Soil Results for Area II - Lwp 15%						
Test Pit Number	SHWT inches	Bedrock inches	Seepage inches	Conventional	Spray	Drip
8	****	15	****	**Unsuitable**	**Unsuitable**	**Unsuitable**
9	24	36	****	Suitable	Suitable	Suitable
10	22	48	****	Suitable	Suitable	Suitable
11	****	22 OVF 60 R	****	Suitable	Suitable	Maybe (PADEP Approval)
12	22	36	****	Suitable	Suitable	Suitable
13	21	33	****	Suitable	Suitable	Suitable
14	****	23	****	Suitable	Suitable	Maybe (PADEP Approval)
15	****	21	24	Suitable	Suitable	Maybe (PADEP Approval)
25	32	****	****	Suitable	Suitable	Suitable
D18	22	****	****	Suitable	Suitable	Suitable
D19	31	42	****	Suitable	Suitable	Suitable
D20	****	35	****	Suitable	Suitable	Suitable
D21	30	37	****	Suitable	Suitable	Suitable
D22	31	40	****	Suitable	Suitable	Suitable
D23	27	35	****	Suitable	Suitable	Suitable
D24	****	37	****	Suitable	Suitable	Suitable
D25	38	42	****	Suitable	Suitable	Suitable
D26	39	45	****	Suitable	Suitable	Suitable
Drip Area	100,601	sf	Application Rate Summer		2.25	In-Acre per week
	2.31	Acre	Application Rate Winter		2.25	In-Acre per week
			Capacity Summer		20,156	gpd
			Capacity Winter		20,156	gpd

Soil Results for Area III-Lwp 15%						
Test Pit Number	SHWT inches	Bedrock inches	Seepage inches	Conventional	Spray	Drip
16	20	****	30	Suitable	Suitable	Suitable
17	15	48	****	**Unsuitable**	Suitable	**Unsuitable**
18	20	****	****	Suitable	Suitable	Suitable
19	24	****	****	Suitable	Suitable	Suitable
20	24	****	****	Suitable	Suitable	Suitable
21	15	****	15/ 36	**Unsuitable**	Suitable	**Unsuitable**
22	31	****	****	Suitable	Suitable	Suitable
23	25	****	40	Suitable	Suitable	Suitable
24	22	****	36	Suitable	Suitable	Suitable
D1	22	****	35	Suitable	Suitable	Suitable
D1A	23	****	27	Suitable	Suitable	Suitable
D2	0	****	0	Unsuitable	Suitable	Unsuitable
D3	30	****	****	Suitable	Suitable	Suitable
D4	20	****	30	Suitable	Suitable	Suitable
D5	21	****	****	Suitable	Suitable	Suitable
D6	26	****	****	Suitable	Suitable	Suitable
D7	26	****	****	Suitable	Suitable	Suitable
D8	24	****	****	Suitable	Suitable	Suitable
D9	31	****	****	Suitable	Suitable	Suitable
D10	23	****	****	Suitable	Suitable	Suitable
Drip Area	161,035	sf	Application Rate Summer		1.28	In-Acre per week
	3.70	Acre	Application Rate Winter		0.75	In-Acre per week
			Capacity Summer		18,355	gpd
			Capacity Winter		10,755	gpd

Soil Results for Area IV and Area V - Lwp 15 %						
Test Pit Number	SHWT inches	Bedrock inches	Seepage inches	Conventional	Spray	Drip
D26A	****	9 OVF 18 R	****	Unsuitable	Unsuitable	Unsuitable
D27	****	****	****	Unsuitable	Unsuitable	Unsuitable
D28	****	9 OVF 18 R	****	Unsuitable	Unsuitable	Unsuitable
D29	32	****	****	Suitable	Suitable	Suitable
D30A	****	9 OVF 18 R	****	Unsuitable	Unsuitable	Unsuitable
D30B	33	****	****	Suitable	Suitable	Suitable
D31	****	****	****	Unsuitable	Unsuitable	Unsuitable
D32	****	****	****	Unsuitable	Unsuitable	Unsuitable
D33	22	27	****	Suitable	Suitable	Suitable
D34	23	36	****	Suitable	Suitable	Suitable
D35	****	****	****	Unsuitable	Unsuitable	Unsuitable
D36	22	****	****	Suitable	Suitable	Suitable
D37	22	****	****	Suitable	Suitable	Suitable
D38	35	****	****	Suitable	Suitable	Suitable
D39	23	****	****	Suitable	Suitable	Suitable
D40	32	****	****	Suitable	Suitable	Suitable
D41	30	35	****	Suitable	Suitable	Suitable
D42	30	38	****	Suitable	Suitable	Suitable
Drip Area	95,535	sf	Application Rate Summer		1.33	In-Acre per week
	2.19	Acre	Application Rate Winter		0.8	In-Acre per week
			Capacity Summer		11,315	gpd
Assumed Very Low Rates			Capacity Winter		6,806	gpd

Summary Table					
Available Capacity		Required Peak Day Phases 1&2	Required 7 Day Average Phase 1&2	Required Peak Day Full Buildout	Required 7 Day Average Full Buildout
Overall Capacity Summer	63,743	38,350	25,201	47,750	31,379
Overall Capacity Winter	51,635	28,763	18,901	35,813	23,534





LOCATION MAP

SCALE: 1"=2000'
SOURCE: MOUNT POCONO PA USGS QUAD MAP

Flow Distribution Table Summer Phases (1&2)				
Day of Week	Resort Occupancy %	Projected Daily Flow	Discharge Drip Irrigation System	Held in EQ
Friday	75%	28,763	28,763	0
Saturday	100%	38,350	31,379	6,971
Sunday	100%	38,350	31,379	13,943
Monday	60%	23,010	31,379	5,574
Tuesday	35%	13,423	18,997	0
Wednesday	30%	11,505	11,505	0
Thursday	60%	23,010	23,010	0
Peak Week Flow, gpd		25,201		

Flow Distribution Table Winter (Phases 1&2)				
Day of Week	Resort Occupancy %	Projected Daily Flow	Discharge Drip Irrigation System	Held in EQ
Friday	56%	21,572	21,572	0
Saturday	75%	28,763	23,534	5,229
Sunday	75%	28,763	23,534	10,457
Monday	45%	17,258	23,534	4,181
Tuesday	26%	10,067	14,248	0
Wednesday	23%	8,629	8,629	0
Thursday	45%	17,258	17,258	0
Peak Week Flow, gpd		18,901		

Flow Distribution Table Summer (Full Buildout)				
Day of Week	Resort Occupancy %	Projected Daily Flow	Discharge Drip Irrigation System	Held in EQ
Friday	75%	35,813	31,379	4,434
Saturday	100%	47,750	31,379	20,805
Sunday	100%	47,750	31,379	37,177
Monday	60%	28,650	31,379	34,448
Tuesday	35%	16,713	31,379	19,782
Wednesday	30%	14,325	31,379	2,729
Thursday	60%	28,650	31,379	0
Peak Week Flow, gpd		31,379		

Flow Distribution Table Winter (Full Buildout)				
Day of Week	Resort Occupancy %	Projected Daily Flow	Discharge Drip Irrigation System	Held in EQ
Friday	56%	26,859	23,534	3,325
Saturday	75%	35,813	23,534	15,604
Sunday	75%	35,813	23,534	27,883
Monday	45%	21,488	23,534	25,836
Tuesday	26%	12,534	23,534	14,837
Wednesday	23%	10,744	23,534	2,046
Thursday	45%	21,488	23,534	0
Peak Week Flow, gpd		23,534		

Hawthorne Resort Flow Generation Chart Full Build Out				
Sewage/Water Uses	Units	Unit Type	flow per unit	Total flow
Swimming Recreational Pool Use	250	Guest	10	2,500
Spa (Therapy Pool Use)	125	Guest	10	1,250
Spa Operators	6	Lic. Operator	200	1,200
Banquet center	240	Meals Served	10	2,400
Restaurant	425	Meals Served	10	4,250
Restaurant	425	Meals Served	10	4,250
Hotel (Phase 3)	94	units	100	9,400
Cabins	150	Unit	150	22,500
Total Flow				47,750

Written dimensions shall have priority over scaled dimensions. All dimensions, elevations, locations, and conditions, shall be verified by the Contractor prior to construction, and the Owner and Boucher & James, Inc. shall be notified of any discrepancies with the information shown on drawings.
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REVISIONS :

DATE	DESCRIPTION	DATE	DESCRIPTION
5/18/22	REVISED FOR ADDITIONAL TESTING		
8/09/22	REVISED FOR ADDITIONAL TESTING		
10/05/22	REVISED PER UPDATED UNITS AND CALCULATIONS		
10/18/22	UPDATED SEWAGE GENERATION CALCS		
11/07/22	UPDATED SEWAGE GENERATION CALCS		
01/24/23	UPDATED TESTING RESULTS AND CALCULATIONS		

PROJECT :
HAWTHORNE MOUNT POCONO RESORT
SR 611, PARADISE TOWNSHIP
MONROE COUNTY, PA

APPLICANT :
JOEL SHTESL
739 BEDFORD AVENUE
BROOKLYN, NY 11205

0 75 150 300 450
SCALE : 1"= 150'

JOB NO.: 208449
DRAWN BY: ELH
CHECKED BY: KJR
SCALE: 1" = 150'
PLAN STATUS: PERMIT

TITLE : DRIP SYSTEM TESTING PLAN

Boucher & James, Inc.
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www.bjengineers.com

PROJECT NAME : HAWTHORNE MOUNT POCONO RESORT

SHEET 1 OF 1

DATE: APRIL 8, 2022

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