

City of Keene Minor Project Review Committee

<u>AGENDA</u>

10:00 AM

Wednesday, July 3, 2024

City Hall, 2nd Floor Council Chambers

- I. Call to Order Roll Call
- II. Election of Vice Chair

III. Minutes of Previous Meetings

- a. Pre-submission Meeting June 6, 2024
- b. Minor Project Review Committee Meeting June 6, 2024

IV. Final Vote on Conditional Approvals

V. Public Hearing

a. <u>SPR-876, Modification #4 – Minor Site Plan – Ametek Addition, 44 Black Brook Rd</u> - Applicant SVE Associates, on behalf of owner NH Black Brook LLC, proposes to construct an ~9,045-sf addition to the existing ~61,100-sf Ametek building and make associated site modifications on the property at 44 Black Brook Rd (TMP #221-021-000). The parcel is 18.43 ac and is located in the Corporate Park District.

VI. <u>Staff Updates</u>

VII. New Business

VIII. Upcoming Meeting Dates

- July 2nd Monthly MPRC Meeting July 18, 2024 at 10:00 am (*if needed*)
- August Pre-submission Meeting August 1 2024 at 9:00 am
- August 1st Monthly MPRC Meeting August 1, 2024 at 10:00 am
- <u>August</u> 2nd Monthly MPRC Meeting August 15, 2024 at 10:00 am *(if needed)*

1 2 3	<u>City of Keene</u> New Hampshire								
4 5	MINOR PROJECT REVIEW COMMITTEE								
6	<u>PRE-SUBMISSION MEETING MINUTES</u>								
7	Thursday, June 6, 2024	9:00 AM	2 nd Floor Conference Room, City Hall						
	Members Present: Jesse Rounds, Chair Med Kopczynski, Vice Chair Don Lussier, City Engineer Michael Hagan, Plans Examiner & A Zoning Administrator Rick Wood, Building Official & Fire Marshall	Staff Preser Megan Forts Evan Cleme Yelma Dess Acting Lt. Shane M	n <u>t:</u> son, Planning Technician ents, Planner eta, Public Works Dept. faxfield, Police Dept.						
8 9 10 11 12	1) <u>Call to Order – Roll Call</u> Chair Rounds called the meeting to or	rder at 9:00 am. Roll call	was conducted.						
13 14 15 16 17 18	 2) <u>Scheduled Pre-submission Inc</u> a. <u>Conceptual Site Plan App</u> #221-021-00) is owned by District. 	<u>uiries</u> <u>lication</u> – The ~18.43-ac NH Black Brook LLC a	parcel at 44 Black Brook Rd (TMP nd is located in the Corporate Park						
 Doug Brown from Bergeron Construction was present at the meeting to discuss a proposed si plan modification application for Ametek located at 44 Black Brook Rd (TMP #221-021-000 City Staff discussed the proposal with Mr. Brown and provided feedback. 									
22 23 24 25	b. <u>Conceptual Site Plan App</u> 025-000) is owned by West	Dlication – The ~0.23-ac t Street AJ's LLC and is	parcel at 348 West St (TMP #577- located in the Commerce District.						
26 27 28	Mr. Brown discussed a potential cha #577-025-000). City Staff discussed t	inge to the Aroma Joe's he proposal with Mr. Bro	site located at 348 West St (TMP own and provided feedback.						
29	3) <u>Walk-In Pre-submission Inqu</u>	iry							
30 31 32 33	Tim Sampson of Sampson Architects Conditional Use Permit application t #535-012-000). City Staff discussed t	s attended the meeting to that may be submitted for he proposal with Mr. San	o discuss a potential Cottage Court or the property at 0 Ellis Ct (TMP mpson and provided feedback.						
34 35 36	 4) <u>Upcoming Meeting Dates</u> • Pre-submission Meeting –] 	Wednesday, July 3, 202	4 at 9:00 am						

- 1st Monthly MPRC Meeting Wednesday, July 3, 2024 at 10:00 am 37
- 2nd Monthly MPRC Meeting July 18, 2024 at 10:00 am (If needed) • 38
- 39
- 5) Adjournment
- 40 41

- There being no further business, Chair Rounds adjourned the meeting at 9:54 am. 42
- 43
- Respectfully submitted by, 44
- Megan Fortson, Planning Technician 45
- 46
- Reviewed and edited by, 47
- Mari Brunner, Senior Planner 48

2 New Hampshire 3 4 5 <u>MINOR PROJECT REVIEW COMMITTEE</u> 6 <u>MEETING MINUTES</u> 7 7 7 7 7 7 7 7 7 7 7 7 7	[all
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Med Konczynski, Vice Chair Velma Desseta, Civil Engineer	
Don Lussier	
Mike Hagan	
Rick Wood	
8	
9 1) Call to Order - Roll Call	
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11 Chair Rounds called the meeting to order at 10:00 AM. Roll call was conducted.	
12	
13 2) Minutes of the Previous Meeting - May 2, 2024	
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15 Mr. Lussier made a motion to accept the May 2, 2024 meeting minutes of the Minor Proje	ct
16 Review Committee Pre-Submission Meeting. Mr. Hagan seconded the motion, which passed b	v
17 unanimous vote.	5
18	
19 Mr. Lussier made a motion to accept the Minor Project Review Committee meeting minutes	of
20 May 2, 2024. Mr. Kopczynski seconded the motion, which passed by unanimous vote.	
21	
22 3) Final Vote on Conditional Approvals	
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24 Ms. Fortson stated that there are no conditional approvals in need of a final vote today.	
25	
26 4) Hearings	
27	
A) SPR-644, Modification #2 – Site Plan – Parking Lot Expansion & Site Modification	lS,
29 426-428 Winchester St - Applicant Brickstone Land Use Consultants, on behalf	of
30 owner TBK Realty Inc, proposes the expansion of the existing parking lot ar	ıd
associated site modifications on the property at 426-428 Winchester St (TMP #11	5-
32 002-000). The parcel is 2.59 ac and is located in the Commerce Limited District.	
33	
34 Ms. Fortson stated that the applicant has requested exemptions from submitting elevations,	а
traffic analysis, soil analysis, historic evaluation, screening analysis, and architectural and visu	al
36 appearance analysis. She continued that staff have determined that the requested exemption	ns

- would have no bearing on the merits of the application and recommend that the MPRC acceptthe application as complete.
- 39

40 Mr. Hagan made a motion to accept the application as complete. Mr. Lussier seconded the41 motion, which passed by unanimous vote.

42

Jim Phippard of Brickstone Land Use Consultants, LLC, stated that he is here on behalf of TBK 43 Realty. He continued that they own the subject parcel, which is located on lower Winchester St. 44 It is a 2.59-acre lot, zoned Commerce Limited. The buildings exist on the property. There is 45 shared access with the Fairfield auto dealerships and a property to the north; he forgets what the 46 uses on these sites are. Existing parking is located along the south side of the front building at 47 426-428 Winchester St. and there is also an existing paved parking lot to the rear of this building. 48 49 The building on the rear of the lot is occupied by a fitness center, with existing parking along its 50 south side.

51

Mr. Phippard stated that the proposal is to add parking spaces, primarily for the use of the rear building. Now that they are fully occupied, they need more parking. The plan is to add parking with access from the south via Cornwall Dr. It will provide 23 additional parking spaces. They are also reclaiming a parking space that used to be a handicapped space. The pavement markings wore away and you cannot really tell it was there, except by the sign on the wall. They will end up with 24 additional parking spaces for the business's use, bringing the on-site total to 96 parking spaces.

59

Mr. Phippard continued that they propose adding trees along the west side of the new parking area, which will provide a limited amount of screening and some shade. The three trees are required because of the additional 24 spaces. They added handicapped parking on the east end of the parking area with an accessible route to the building's main entrance. The old handicapped parking space did not meet the accessible route requirements, so it was good to eliminate it. It was a little too steep.

66

Mr. Phippard showed the grassy area they are adding pavement to. He continued that there will 67 be additional runoff created, but it is still within the acceptable guidelines. Lot coverage will go 68 69 to 65%, which is less than what this district permits. They provided a drainage report, prepared by SVE Associates, which calls for adding a new drain manhole with a 24" pipe that connects 70 71 back to an existing drain manhole. The parking lot drains to the west into that existing manhole and will then flow into the 24" pipe, which has a solid end and a 4" orifice to allow water to 72 73 discharge. Thus, they are providing storage for the additional runoff under the parking lot that 74 drains slowly into the existing storm drain system that then passes into the tax ditch system to the east of the property. The drainage report indicates that the amounts of runoff do not exceed 75 the acceptable limits of a 25-year storm. 76 77

Mr. Phippard stated that they propose adding four pole lights with full cut-off LED fixtures that
will be mounted at a height of 20' poles. He continued that they provide an average of just over

- two footcandles of light within the parking area. The uniformity ratio is 2.58 footcandles (fc), so
 they are well within the guidelines required in the Planning Board Regulations.
- 82

Mr. Phippard continued that other than the three trees they are adding, they are not providing any additional screening of the parking area, because they do not feel it is necessary. It is screened from the public right-of-way, Winchester St., by the front building. It is located to the side of the rear building, and this is not a City street, so they feel they are in compliance with the screening requirements.

88

Mr. Phippard continued that they will plow snow to the edges of the parking area. Excess snow 89 will be removed from the site. That is the current practice and it will continue. City water and 90 City sewer exist at the rear building, and this (parking expansion) has no effect on that. The 91 property is located within the 100-year floodplain. The buildings are elevated, not too low for 92 the flood elevation. They are re-grading the area, essentially lowering it a foot. That provides 93 compensatory storage on site, even though they are hauling fill back in. There will be no loss of 94 flood storage. They will go through the documentation as is required in the flood district. SVE 95 Associates will certify that there is no loss of flood storage. 96

97

98 Mr. Lussier asked if Mr. Phippard could confirm that the proposed drainage manhole is within 99 the applicant's property limits, not within the City's easement. Mr. Phippard replied that it is on 100 the applicant's lot entirely. Mr. Lussier asked, regarding the final connection into the City's 101 storm drain, if that is an existing City manhole. Mr. Phippard replied that it is an existing storm 102 drain, and the applicant is just providing a connection into that pipe. Mr. Lussier asked if it is a 103 blind connection. Mr. Phippard replied yes, it is a "Y" connector at the end of the line with a 4" 104 line going into a 12" line.

105

Mr. Lussier stated that he needs something clarified for the record. He continued that the 106 drainage report on page 21 of 50 in the agenda packet says (they propose) "A 24" HDPE storm 107 drainpipe with end cap and 4" orifice," but in the plans and in the details they show that the last 108 109 section of pipe from the applicant's manhole to the City's "Y" is proposed as a 4" pipe. That is not an end cap and an orifice; it is a 4" pipe. Mr. Phippard replied that he agrees, and that is an 110 oversight. Mr. Lussier asked what they are actually proposing. Mr. Phippard replied a 4" outlet 111 pipe. He continued that it is shown on the detail. Mr. Lussier asked if what is shown on the 112 details is correct. Mr. Phippard replied yes. Mr. Lussier replied that he thinks that is fine. He 113 continued that he and Mr. Phippard both know that by October, that will be blocked. 114

115

116 It will be a "maintenance nightmare" for the owner. He asked if Mr. Phippard agrees. Mr. 117 Phippard replied that he agrees that it is a maintenance issue. He continued that he hopes they 118 have enough storage in (this) pipe and it can collect sediment in the large pipe, not the 4" pipe. 119 Mr. Lussier replied that he is more worried about leaves. He continued that he thinks the 120 applicant will come to regret that 4" pipe. Nonetheless, he will recommend a condition precedent 121 that the owner acknowledge, in a letter to the City of Keene, that that drainage system, including 122 the 4" pipe and connection to the City's main, is not to be maintained by the City. That will be

- the owner's responsibility. He wants that documented for posterity, because the City will be
 getting calls about these catch basins backing up and not taking water within the next couple
 years.
- 126

Mr. Lussier asked if the applicant would be open to adding a manhole to where it actually connects, just for maintenance access. Mr. Phippard replied that since the storm drain is on this property, an idea is to relocate the drain manhole over the line. Mr. Lussier replied no, he does not want there to be any confusion about that being part of the City's system. He continued that he will not tell the applicant they need to do a drain manhole there, but he encourages them to think about it, for the applicant's own maintenance access. Mr. Phippard replied that that would be much more effective.

- 134
- Mr. Lussier asked if there is curbing on the west side of the parking lot. Mr. Phippard repliedyes.
- 137

Chair Rounds asked if there were further comments or questions. He continued that he
remembers an earlier version of this had some lighting trespass, but it looks like that has been
dealt with, which he appreciates. He did not look into the parking lot too much. He asked if Mr.
Hagan had any Zoning concerns about the parking.

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143 Mr. Hagan replied that they reviewed this at the pre-submission meeting prior to the meeting. 144 He continued that the applicant meets the required setbacks and lot coverage requirements.

145

Ms. Fortson stated that Mr. Hagan had expressed concern about the floodplain development permit. She asked if he wants to add that as a condition as well. Mr. Hagan replied that he thinks, given Mr. Phippard's testimony, that the applicant understands the requirements for that. Mr. Phippard agreed. Mr. Hagan stated that he does not think they need to make it a condition, but prior to any work starting, the submittal and approval of a Floodplain Development Permit will be required.

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Mr. Lussier made a motion that the Minor Project Review Committee approve SPR-644, Modification #2 as shown on the plan set identified as "New Parking Lot, 426-428 Winchester St., Keene, NH" prepared by Brickstone Land Use Consultants, LLC, at varying scales on October 25, 2023 and last revised on May 17, 2024, with the following conditions precedent prior to the final approval and signature on the plan set by the Minor Project Review Committee Chair:

- 158
- Submittal of an updated narrative, note sheet, and proposed condition plans, to indicate the correct number of proposed parking spaces.
- 161 2) Owner's signature appears on the title page and proposed conditions plan.
- 162 3) Submittal of five (5) paper copies and a digital copy of the final plan set.
- 163 4) Submittal of a security in an amount and form acceptable to the Community Development
- 164 Director and City Engineer to cover the cost of landscaping and sediment erosion control 165 measures.

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- Submittal of an updated drainage report, clarifying the intent of the 4" orifice connection toCity drainage system, in a form acceptable to the Public Works Director.
- 6) Owner's submittal of a letter acknowledging that the City will not be responsible for any portion of the on-site drainage, including the 4" drain line, up to and including connection to the City's storm drainage system, in a form acceptable to the Public Works Director.
- 171172 Mr. Wood seconded the motion, which passed by unanimous vote.
- 173

5) <u>Changes to Minor Project Review Committee Application Fee Schedule:</u> The City of Keene Community Development Department proposes to amend sections of Article 25, "Application Procedures" of the Land Development Code and Chapter 100 of Appendix B of the City Code of Ordinances to change the certified mailing requirement to a "Certificate of Mailing."

179

Chair Rounds stated that after further reading of the Land Development Code (LDC), he concluded that this agenda item is not necessary and they can probably skip it. Ms. Fortson replied that is correct, this agenda item does not need to be voted on. She continued that a section in Article 25 gives the City Council the authority to adopt the fee schedules for boards. Thus, staff did not actually need to have the fee schedule updates go through each of the boards that will be impacted. It will just be written into an ordinance and then go through the normal ordinance process, for review and adoption by the City Council.

188 Mr. Lussier asked if the boards should weigh in and give the City Council a recommendation 189 regarding changes to the fee schedule. Chair Rounds replied that staff will definitely inform the 190 boards about fee changes, and they could discuss it and offer comment, but the LDC does not 191 require it. Brief discussion ensued.

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6) <u>Staff Updates</u>

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195 Chair Rounds asked if there were any staff updates. Ms. Fortson replied no.

197 **7**) <u>New Business</u>

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Mr. Lussier stated that with him today is Yelma Desseta, Civil Engineer. He continued that he
himself is currently here at the MPRC as the Public Works Director's designee. Given that Mr.
Lussier has been promoted to the Public Works Director, Mr. Desseta will be the new Public Works
designee at these meetings. MPRC members welcomed Mr. Desseta.

- 203 204
- 8) <u>Upcoming Dates of Interest</u>
- 205
- **June** 2nd Monthly MPRC Meeting June 20, 2024 at 10:00 am (*if needed*)
- **July** Pre-submission Meeting July 3, 2024 at 9:00 am
- **July** 1st Monthly MPRC Meeting July 3, 2024 at 10:00 am

209 July – 2nd Monthly MPRC Meeting – July 18, 2024 at 10:00 am (*if needed*) 210 211 Ms. Fortson stated that this is Mr. Kopczynski's last MPRC meeting before his retirement. MPRC members thanked Mr. Kopczynski for all of his work and expressed appreciation for him. Ms. 212 Fortson stated that at the next MPRC meeting, they will need to elect a new vice chair. 213 214 9) Adjournment 215 216 There being no further business, Chair Rounds adjourned the meeting at 10:27 AM. 217 218 Respectfully submitted by, 219 Britta Reida, Minute Taker 220 221 Reviewed and edited by, 222 Megan Fortson, Planning Technician 223



City of Keene, NH Site Plan Application

you have questions about how to complete this form, please call: (603) 352-5440 or email: communitydevelopment@keenenh.gov

SECTION 1: PROJEC				
PROJECT NAME: Proposed Addition for An	netek			
PROJECT ADDRESS(ES): 44 Black Brook Road				
EXISTING OR PREVIOUS USE: industrial	PROPOSED USE: industrial			
GROSS FLOOR AREA OF NEW CONSTRUCTION (in square feet) 9,045 sf	<u>GROSS FLOOR AREA OF EXISTING</u> 61,100 sf BUILDINGS/STRUCTURES (in square feet)			
AREA OF PROPOSED NEW 7,140 sf IMPERVIOUS SURFACES (in square feet)	TOTAL AREA OF LAND DISTURBANCE (in square feet) 40,000+/- Sf			
SECTION 2: CONTA	CT INFORMATION			
PROPERTY OWNER	APPLICANT			
NAME/COMPANY: Clifford Cardine/NH Black Brook, LLC	same as owner			
MAILING ADDRESS: 5620 Old Mile Hill Road, Orefield, PA 18069	MAILING ADDRESS:			
<u>рноле:</u> 610-597-2805	PHONE:			
email: cptccpc@gmail.com	EMAIL:			
SIGNATURE: CLIFFORD CARDINE Digitally signed by CLIFFORD CARDINE Date: 2024.06.11 11:11:55 -04'00'	SIGNATURE:			
PRINTED NAME: Clifford Cardine	PRINTED NAME:			
AUTHORIZED AGENT (if different than Owner/Applicant)	FOR OFFICE USE ONLY:			
NAME/COMPANY: Liza Sargent/SVE Associates	TAX MAP PARCEL #(s):			
MAILING ADDRESS: P.O. Box 1818, Brattleboro, VT 05301				
PHONE: 802-257-0561	PARCEL SIZE: 18.4500 DATE STAMP:			
EMAIL: Isargent@sveassoc.com	ZONING DISTRICT: CORPORATC JUN 1 4 2024			
SIGNATURE: Mi Layur				
Liza Sargent	SPR-876,Mpd-4			

PROJECT NARRATIVE

SPR-876 Site Plan Modification 44 Black Brook Road Owner: NH Black Brook, LLC

June 13, 2024

SVE Associates, on behalf of the owner NH Black Brook, LLC, is submitting this application for modification of an approved site plan. The project consists of construction of an addition, loading dock, travel isle, parking & associated stormwater drainage modifications. In 2020 NH Black Brook, LLC got approval for a similar project, but due to COVID 19, the project was not totally completed. The temporary loading dock, parking, and associated stormwater system on the north side of the building was constructed, but the addition was not. They now wish to construct an addition and finish the access isle around the building.

The tractor trailer side of the formerly "temporary" loading dock will be accessed from the Black Brook Road cul-de-sac. Trucks will drive northeast where the 15 parking spaces exist, over the lands of tax map lot 221-022-000-000 (also owned by NH Black Brook, LLC) then back into the loading dock. Trucks will leave by driving south around the building, back onto Black Brook Road.

The overhead door on the addition will have deliveries only two times per year. Therefore, parking will not be conflict in this location.

Sediment and erosion control for the addition, travel isle and loading dock will be a double row of silt fence or straw wattles. Contractor will maintain and remove accumulated sediment and debris as necessary.

The proposed plan complies with all City Development Standards:

1.) Drainage & Stormwater Management:

There will be no net increase in stormwater runoff. See attached drainage narrative. There is a proposed expansion of the existing stormwater detention basin to the northwest.

2.) Sedimentation/ Erosion Control:

The site is relatively flat, minimizing the potential for erosion problems. Regardless, the Contractor is to install, monitor, and repair erosion control measures on a regular basis. These instructions are included in the notes on Sheet N-1 and details on Sheet C-3.

3.) <u>Hillside Protection:</u> Not applicable.

SVE Associates

4.) <u>Snow Storage and Removal:</u>

Snow storage is proposed to the northwest of the proposed new drive aisle.

5.) Flooding:

The site is not located in the 100-year flood plain.

6.) <u>Landscaping:</u>

Two birch clusters and one chanticleer pear are to be planted.

7.) Noise:

The proposed use will generate no more noise than previously existed.

8.) Screening:

The new dumpster location will be screened from view from Black Brook Road by the building and is screened from Wyman Road by forested land.

9.) <u>Air Quality:</u>

The proposed development will not deteriorate existing air quality.

10.) Lighting:

Wall mounted LED lights, and lights mounted in the canopies at all new doors are proposed. All lights are full cut-off.

11.) <u>Water and Sewer:</u> The site is served by municipal water and sewer, no changes proposed.

12.) Traffic:

No significant changes to amount or timing of trips to the site. From ITE trip generation manual estimates, there will be 23 additional vehicle trip ends on a weekday.

13.) <u>Comprehensive Access Management:</u> No change from existing.

14.) <u>Hazardous and Toxic Materials:</u> No change.

15.) <u>Filling and Excavation:</u> No wetland, floodplain or steep hillsides will be excavated or filled.

16.) Wetlands:

No changes to impact on wetland buffers from original 2020 approved site plan.

17.) <u>Surface Waters:</u> No change.

SVE Associates

18.) <u>Stump Dumps:</u> No stump dumps proposed.

19.) Architecture and Visual Appearance:

Addition will mimic the existing structure's style and visual appearance. See elevations for more detail.

SVE Associates

Engineering * Surveying * Landscape Archicture * Planning 439 West River Road, Brattleboro, VT 05302 Phone: (802) 257-0561 Fax (802) 257-0721 E-mail <u>svek@sveassoc.com</u>

MODIFICATION TO SPR 876 PROPOSED ADDITION

FOR:

AMETEK 44 BLACK BROOK ROAD, KEENE, NH 03431

OWNER: NH BLACK BROOK, LLC

5620 OLD MILE HILL RD OREFIELD, PA, 18069

JUNE 13, 2024

SURVEYOR:

Huntley Survey & Design, NH & VT Land Surveying, Wetlands & NH Septic System Design 659 West Road, Temple, NH 03084 (603) 924-1669 www.huntleysurvey.com

ENGINEER:

SVE Associates

P.O. Box 1818 439 West River Road Brattleboro, VT 05302 Phone (802) 257-0561 Fax (802) 257-0721 website: www.sveassoc.com ARCHITECT:

JA SACCOCCIO WORKSHOP, PLLC P.O. Box 6114, Brattleboro, VT 05302 (802) 490-1766 www.jasworkshop.com



SHEET INDEX N-1 NOTES

EXISTING CONDITIONS PLAN

- C-1 SITE PLAN
- C-2 **GRADING & DRAINAGE PLAN**
- CONSTRUCTION DETAILS C-3
- LT-1 LIGHTING PLAN

APPROVED BY THE KEENE PLANNING BOARD CHAIRMAN



Liga Surgent 6/13/24

DATE LIZA P. SARGENT R.C.E. NUMBER: 13365

OWNERS CERTIFICATION:

DATE

I CERTIFY THAT I AM THE OWNER OF THIS PROPERTY AND THAT I APPROVE OF THIS SITE PLAN.

OWNER: DATED

14 of 50

GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL CALL DIG-SAFE, AT 1-888-344-7233 AT LEAST 72 HOURS BEFORE THE START OF EXCAVATION.
- THE CONTRACTOR IS EXPECTED TO BE AWARE OF AND COMPLY WITH ALL PERMITS AND PERMIT CONDITIONS. ALL TRENCHING, EXCAVATION, SHEETING, SHORING, ETC. SHALL COMPLY WITH THE MOST CURRENT OSHA REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY SVE ASSOCIATES IF FIELD CONDITIONS VARY FROM THAT SHOWN ON THE PLAN(S). THE CONTRACTOR'S
- WORK SHALL NOT VARY FROM THE PLAN(S) UNLESS SO AUTHORIZED BY SVE ASSOCIATES.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH SITE PLANS AND SPECIFICATIONS PROVIDED OR IN ACCORDANCE WITH NH DEP'T OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- IN CASE OF CONFLICTS, THE MOST STRINGENT INTERPRETATION OF THE PLANS, SPECIFICATIONS, LOCAL OR STATE REGULATIONS, OR PERMIT CONDITIONS SHALL APPLY. THE ENGINEER SHALL BE THE DETERMINANT AS TO WHAT APPLIES.
- 7 ALL KNOWN SUBSURFACE UTILITIES AND STRUCTURES HAVE BEEN INDICATED ON THE PLAN(S) AS ACCURATELY AS POSSIBLE. THE EXACT LOCATION MAY VARY AND THE CONTRACTOR IS CAUTIONED TO PROCEED WITH CARE.
- CONTRACTOR SHALL VERIFY ALL BENCH MARKS, INVERTS, PIPES AND STRUCTURES ELEVATIONS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY SVE ASSOCIATES IF THE FIELD INFORMATION DOES NOT MATCH PLAN INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DE-WATERING AT NO ADDITIONAL COST TO THE OWNER. ALL SURFACES SHALL BE GRADED TO DRAIN.
- 11.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED SURFACES TO THEIR ORIGINAL CONDITION OR BETTER. ALL NEW AND EXISTING PIPES AND STRUCTURES SHALL BE CLEANED. ALL SIGNS SHALL BE REPLACED. ALL DAMAGED VEGETATION SHALL BE REPLACED.
- 12. ALL CURB SHALL BE SET SO THAT ENDS ABUT OR ARE TIPPED DOWN, 6' MINIMUM LENGTH, FLUSH WITH PAVEMENT.
- 13. UNLESS OTHERWISE NOTED, ALL CURB RADII TO BE FACE OF CURB

SEDIMENT AND EROSION CONTROL

- INSTALL ALL SEDIMENT & EROSION CONTROL MEASURES IN ACCORDANCE WITH MANUFACTURER'S DIRECTION OR DETAILS PROVIDED. PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION CONTROL. HE SHALL TAKE ALL MEASURES NEEDED TO MINIMIZE EROSION TO THE GREATEST EXTENT POSSIBLE, AT NO ADDITIONAL COST TO THE OWNER, REGARDLESS OF DETAIL SHOWN ON THESE PLANS.
- CONTRACTOR SHALL INSPECT AND REPAIR ALL SEDIMENT AND EROSION CONTROL MEASURES DAILY WHILE UNDER CONSTRUCTION, THEN AFTER EACH RAINFALL OF 0.5" IN 24 HOURS AND NOT LESS THAN ONCE A WEEK THEREAFTER UNTIL ALL UPHILL 3. SOILS ARE WELL STABILIZED.
- 4. SEED FERTULZE & MULCH ALL FINISH GRADED AREAS WITHIN 72 HOURS OF FINISH GRADING ROADWAY STABILIZED W/IN 72 HOURS OF ACHIEVING FINISH GRADE.
- 5. SEDIMENT CONTROLS AND/OR SILT FENCES SHALL BE REPLACED WHEN CLOGGED AND NO LONGER FUNCTIONAL
- 6. SEDIMENT CONTROLS AND/OR SILT FENCES SHALL REMAIN IN PLACE UNTIL ALL UPHILL VEGETATED AREAS ARE STABILIZED.
- 7. ALL SOIL STOCKPILES SHALL BE SEEDED AND MULCHED IF LEFT IN PLACE MORE THAN 21 DAYS.
- 8. SEEDING OF ALL DISTURBED AREAS SHALL BE COMPLETED NOT LATER THAN OCTOBER 15TH.
- 9. STABILIZATION OF ALL WORK AREAS SHALL BE COMPLETED NOT MORE THAN 45 DAYS FOLLOWING THE START OF WORK.
- 10. ALL SOIL SLOPES STEEPER THAN 3:1 SHALL BE COVERED WITH EROSION CONTROL FABRIC, S150 FROM NORTH AMERICAN GREEN OR APPROVED EQUAL.
- 11. STABILIZE ALL DRAINAGE SWALES, BASINS, BERMS, AND DITCHES PRIOR TO DIRECTING RUNOFF TO THEM
- 12. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE SEDIMENT AND EROSION CONTROLS AS REQUESTED BY THE ENGINEER.

PROJECT SPECIFIC NOTES:

- 1. ALL STORM DRAIN TO BE HIGH DENSITY SMOOTH BORE POLYETHYLENE, HANCOR OR APPROVED EQUAL, U.N.O.
- 2. ALL AREAS TO BE VEGETATED SHALL RECEIVE A MINIMUM OF 6" OF LOAM, SEED AND MULCH. IF PLANS OR SPECIFICATIONS HAVE CONFLICTING DEPTHS OF LOAM, 6" OF LOAM SHALL BE THE PREVAILING DEPTH USED.
- SEEDING OF ALL DISTURBED AREAS SHALL BE COMPLETED NOT LATER THAN OCTOBER 15TH SEEDING OF ALL FINISHED AREAS SHALL BE COMPLETED NOT MORE THAN 72 HOURS AFTER FINISH GRADING
- STABILIZATION OF ALL WORK AREAS SHALL BE COMPLETED NOT MORE THAN 45 DAYS FOLLOWING THE START OF WORK.
- BROOM, WASH AND APPLY TACK COAT TO BASE PAVEMENT PRIOR TO WEAR COURSE PLACEMENT.
- ALL NEW EXTERIOR LIGHTS SHALL BE SHIELDED TO PROTECT AGAINST ADDED LIGHT POLILITION
- STABILIZE ALL DRAINAGE SWALES PRIOR TO DIRECTING RUNOFF TO THEM.
- PER RSA 155E: 2 IF THE EXCAVATION VOLUME EXCEEDS 1,000 CUBIC YARDS, CONTRACTOR SHALL FILE "NOTICE OF INTENT TO EXCAVATE" WITH LOCAL AUTHORITY & PAY TAXES AS NEEDED.
- 10. PER RSA 79:10 IF TREE CUTTING EXCEEDS 10.000 BOARD FEET OR OVER 20 CORDS OF FUEL WOOD, CONTRACTOR SHALL FILE "NOTICE OF INTENT TO CUT WOOD OR TIMBER" WITH LOCAL AUTHORITY & PAY TAXES AS NEEDED.

SEQUENCE OF WORK

THE SEQUENCE OF WORK SHALL BE FOLLOWED WITHIN EACH PHASE OF THE PROJECT. AT NO TIME OR PLACE SHALL PROJECT PHASING SUPERCEDE SOUND SEDIMENT AND EROSION CONTROL PLANNING

- 1. INSTALL SILT FENCE IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS,
- IN LOCATIONS DETAILED ON THIS PLAN OR AS ORDERED BY THE ENGINEER.
- 2. CONSTRUCT AND STABILIZE THE DETENTION CONTROLS AND ALL INLET/OUTLET SWALES.
- CLEAR AND GRUB THE DRIVEWAY EXPANSION CONSTRUCT DRIVE IN ACCORDANCE WITH APPROVED PLANS
- 4. CONSTRUCT NEW PARKING LOT AND BUILDING ADDITION.
- LOAM AND SEED DISTURBED AREAS, STABILIZE SLOPES WITH MATTING WHERE SPECIFIED.
- 6. REMOVE SILT FENCE AFTER ALL UPHILL SOILS ARE STABILIZED.

STABILIZATION DEFINITION:

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED;
- 4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

A.D.A. ACCESSIBILITY NOTES:

ALL CONSTRUCTION SHALL COMPLY WITH DEPARTMENT OF JUSTICE 28 CFR PART 36, A.D.A. STANDARDS FOR ACCESSIBLE DESIGN. THIS INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING REQUIREMENTS:

- PARKING SPACES AND ACCESS AISLES: 1. PARKING SPACES AND ACCESS AISLES SHALL HAVE SURFACE SLOPES NOT
- EXCEEDING 1:50 (2%) IN ANY DIRECTION. 2. MINIMUM PARKING SPACE WIDTH SHALL BE 8 FT. 3. MINIMUM ACCESS AISLE WIDTH SHALL BE 5 FT (8 FT. FOR VAN ACCESSIBLE
- SPACES). 4. ACCESSIBLE SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL BE FURTHER DESIGNATED AS SUCH BY APPROPRIATE SIGNAGE.

ACCESSIBLE ROUTES:

- 5. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, A.D.A. PARKING, PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS, TO AN A.D.A. BUILDING ENTRANCE 6. AT LEAST ONE ACCESSIBLE COUTE SHALL CONNECT A.D.A. ACCESSIBLE BUILDINGS, ACCESSIBLE ELEMENTS AND FACILITIES (MAILBOXES, TRASH DEVICE AND ACCESSIBLE CONNEL AND FACILITIES (MAILBOXES, TRASH DEVICE AND ACCESSIBLE AND FACILITIES (MAILBOXES) TRASH DEVICE AND ACCESSIBLE AND ACCES RECEPTACLES, COMMON AREAS), AND A.D.A. PARKING THAT ARE ON THE
- SAME SITE 7. MAXIMUM SLOPE OF SURFACES ADJACENT TO AN ACCESSIBLE ROUTE SHALL
- MAXIMUM SLOPE OF SURFACES ADJACENT TO AN ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20 (5%).
 CURB RAMP FLARES SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
 MAXIMUM CROSS-SLOPE ALONG ANY PORTION OF THE ACCESSIBLE ROUTE SHALL NOT EXCEED 1:50 (2%).
 TRANSITIONS FROM RAMPS AND WALKS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- RAMPS: 11. ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 (5%) SHALL BE CONSIDERED A RAMP. 12. THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP.
- THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP.
 MAXIMUM SLOPE OF ANY RAMP SHALL BE 112 (8.33%).
 MAXIMUM RISE OF ANY RAMP SHALL BE 30 IN. ANY RAMP HAVING A RISE GREATER THAN OR EQUAL TO 6 IN. SHALL HAVE AT LEAST ONE HANDRAIL.
 RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP. LANDINGS SHALL BE AS WIDE AS THE RAMP AND AT LEAST 60 IN. LONG.
 OUTDOOR RAMPS AND THER RAMP AND AT LEAST 60 IN. LONG.
 OUTDOOR RAMPS AND THER APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

IN THE EVENT THAT THESE REQUIREMENTS CONFLICT WITH DESIGN PLANS, OR IF FIELD CONDITIONS RENDER THESE UNATTAINABLE, CONTACT THE ARCHITECT AND/OR ENGINEER PRIOR TO BEGINNING WORK.

SNOW STORAGE:

SNOW TO BE STORED IN AREAS SHOWN ON SITE PLAN, SHOULD SNOW AMOUNTS EXCEED ONSITE STORAGE, EXCESS WILL BE TRUCKED OFFSITE.

PERMITS REQUIRED:

CITY OF KEENE. SITE PLAN REVIEW

SEED SPECIFICATIONS

PERMANENT SEED:

ALL MOWABLE AREAS: PARK SEED NHDOT TYPE 15 (CONSERVATION MIX ACCEPTABLE, AS APPROVED BY ENGINEER)

ALL SLOPES 5:1 OR STEEPER: SLOPE SEED NHDOT TYPE 45 (OR OTHER WILDFLOWER MIX APPROVED BY ENGINEER)

CREEPING RED FESCUE	35 LB/AC
PERENNIAL RYEGRASS	30 LB/AC
REDTOP	5 LB/AC
ALSIKE CLOVER	5 LB/AC
LANCE-LEAVED COREOPSIS	5 LB/AC
OXEYE DAISY	3 LB/AC
BUTTERFLY WEED	3 LB/AC
BLACKEYED SUSAN	3 LB/AC
WILD LUPINE	<u>3 LB/AC</u>
TOTAL:	95 LB/AC

PROPERTY OWNER & APPLICANT:

NH BLACK BROOK, LLC 5620 OLD MILE HILL ROAD OREFIELD, PA 18068

TE DATA	TABLE			with the second second
<u>MAP #</u> :	221-021-000-000, 802,745 SQ. FT. ±	18.428 ACRES		SARGEDT
I <u>E:</u>	CORPORATE PARK SURFACE WATER PRO	TECTION OVER	LAY DISTRICT	No. 13365
SIZE:	AVAILABLE: 18.428 AC	<u>REQUIRED:</u> 2 AC		
NTAGE:	1341 FEET	100 FEET		Liza Sargent 6/13/24
WIDTH:	NONE	200 FEET		LIZA P. SARGENT DATE
<u>G. HEIGHT:</u>	ALLOWED: 60 FEET	<u>PROPOSED</u> : 23 FEET		R.C.L. NUMBER: 13365 ENGINEER:
<u>_DING_SETBACKS:</u> NT: R & SIDES:	40' 50'			SVE Associates
<u>'EMENT SETBACKS:</u> NT: R & SIDES:	20' 20'			P.O. Box 1818 439 West River Road Brattleboro, VT 05302 Phone (802) 257-0561
COVERAGE: DINGS: /EMENT: /AL IMPERMEABLE:	MAXIMUM: 80% (802,723 S.F./1- 80% (802,723 S.F./1- 80% (802,723 S.F./1-	4.7 AC) 4.7 AC) 4.7 AC)	PROPOSED: 8% (67,100 S.F./ 1.54 AC) 9% (80,085 S.F./ 1.83 AC) 18% (147,185 S.F./3.38 AC)	Fax (802) 257-0501 Fax (802) 257-0721 www.sveassoc.com
<u>KING:</u> < 18':	REQUIRED: 0.5 SPACE/1,000 GF/ + 4 SPACES/1,000 C OFFICE SPACE =	A SFA	<u>PROPOSED:</u> 131 TOTAL SPACES	
A. ACCESSIBLE:	(2,870 SF/1000 *0.5)+ 5	12+33 =45	5 OF THE 131 SPACES	OWNER: NH BLACK BROOK, LLC 5620 OLD MILE HILL ROAD OREFIELD, PA, 18069
1 60" 17.1M 20.1HIGH WATER 60" 20. WATER NONE NONE 22: LOAM: VERY FRABLE;	2 78° /INCH 3 MIN/INCH 6652F.VED NONE 0652F.VED 0655F.VED NONE 0655F.VED 0655F.VED NONE 0655F.VED 0655F.VED NONE 0655F.VED 0-7° 7.5762	3 84" 80" NONE OBSERVED NONE OBSERVED 5/2; LOAM; VERY FR	4 70* 70* NONE OBSERVED NONE OBSERVED	REVISIONS: DATE:
GRAVELY LOWY FINE GRAVELY LOWY FINE MAY FRIANCE MASSIVE LOWING SAND;	и мазях — т. 77 - ес. - 7.5978 - 2.5976 -	/8: LOAMY FINE SAND 5: MASSVE 4: SANDY LOAM; GRANULAR 9: FINE SANDY LOAM; 9: FINE SANDY LOAM; 9: FINE SANDY LOAM; NG AT 60" TTOM 78"	× *	PROPOSED ADDITION AMETEK 44 BLACK BROOK ROAD KEENE, NH 03431
2: LOAM: VERY FRIABLE; SANDY LOAM: VERY MASSIVE GRAVELLY FINE SAND; NNULAR FINE LOAM: ANDULAR FINE LOAM: NE SANDY LOAM:MOIST, JULAR BLOOKY, FINI	0-8" 10%3, 	3: LOAM; VERY FRIAE E	9LE; LOAMY	NOTES
M 84"			C S A	SCALE: NA
				DATE: JUNE 13, 2024
			0-344-7	
				SHEET N-1

SITE DATA	TABLE			With the NEW Harding				
AX MAP #:	221-021-000-000 802,745 SQ. FT. ±), ± 18.428 ACRES		JAN UZA LE S P.				
CONE:	CORPORATE PARK SURFACE WATER P	PROTECTION OVERI	AY DISTRICT	SARGENT BOOM STATES				
OT SIZE:	AVAILABLE: 18.428 AC	<u>REQUIRED</u> : 2 AC						
RONTAGE:	1341 FEET	100 FEET		Liza Sargent 6/13/24				
OT WIDTH:	NONE	200 FEET		LIZA P. SARGENT DATE				
BLDG. HEIGHT:	ALLOWED: 60 FEET	<u>PROPOSED</u> : 23 FEET		R.C.E. NUMBER: 13365 ENGINEER:				
BUILDING SETBACKS: RONT: REAR & SIDES:	40' 50'			SVE Associates				
PAVEMENT SETBACKS: RONT: REAR & SIDES:	20' 20'			P.O. Box 1818 439 West River Road Brattleboro, VT 05302				
<u>OT COVERAGE:</u> BUILDINGS: PAVEMENT: "OTAL IMPERMEABLE:	MAXIMUM: 80% (802,723 S.F. 80% (802,723 S.F. 80% (802,723 S.F.	/14.7 AC) /14.7 AC) /14.7 AC)	<u>PROPOSED</u> : 8% (67,100 S.F./ 1.54 AC) 9% (80,085 S.F./ 1.83 AC) 18% (147,185 S.F./3.38 AC)	Phone (802) 257-0561 Fax (802) 257-0721 www.sveassoc.com				
P <u>ARKING</u> :)' X 18':	REQUIRED: 0.5 SPACE/1,000 + 4 SPACES/1,000 OFFICE SPACE = (54.230/1000 *0.5	GFA 0 GFA	<u>PROPOSED</u> : 131 TOTAL SPACES					
A.D.A. ACCESSIBLE:	(2,870 SF/1000 *4	4)=12+33 =45	5 OF THE 131 SPACES	OWNER: NH BLACK BROOK, LLC 5620 OLD MILE HILL ROAD OREFIELD, PA, 18069				
				REVISIONS: DATE:				
S 1 60" 60" TE 17 MIN SCONAL. HIGH WATER 100 KE ERVED WATER NONE SE NONE	2 78" /INCH 3 MIN/INCH 60" 085ERVED NONE 085ER 085ERVED NONE 085ER	3 84" VED NONE OBSERVED VED NONE OBSERVED	4 70° 70° 70° MORE OBSERVED NORE OBSERVED					
2.5/2; LOAM; VERY FRIABLE; VE	0- 7.3	#2 -2" 5YR2.5/2; LOAM; VERY FRI ASSIVE	ABLE;					
4/3; ORANELIY LOAMY FINE Y LOAM; FRAAREL MASSIVE 107 (57) (57) (57) (57) (57) (57) (57) (57	- 7. 	SYR5,8, LOANY FINE SAND HIALE, MASSIVE "-60" SYS/4, SANDY LOAN SYS,4, SANDY LOAN SYS,4, SANDY LOAN T-78" "-78" N, WEAK ANGULAR BLOOK THUNG AT 80"	e	PROPOSED ADDITION AMETEK 44 BLACK BROOK ROAD KEENE, NH 03431				
2.5/2; LOAM; VERY FRIABLE;	•■ -0 10	#4 -8" YR3/3; LOAM; VERY FRIAB	LE;	NOTES				
5/3; SANDY LOAM; VERY LE, MASSIVE 32" 5/8; GRAVELLY FINE SAND; ;, GRANULAR	84 7. 23 23 10 10 10 10	-23" 5YR4/3; VERY GRAVELLY L IND; LOOSE, GRANULAR "-70" YR5/2; GRAVELLY SAND; IOSE, GRANULAR	DAMY					
80" /3; FINE LOAM; ; GRANULAR, ING AT 80" 84" ; FINE SANDY LOAM;MOIST, ANGULAR BLOCKY, FIRM	Pr	т воттом 70"						
OTTOM 84"			G S A					
				SUALE: NA				
			12	DATE: JUNE 13, 2024				
			344					
				SHEET N-1				

SITE DATA	TABLE 221-021-000-000,			UNITED REW HARD
ZONE:	802,745 SQ. FT. ± CORPORATE PARK SURFACE WATER PRO	18.428 ACRES	LAY DISTRICT	SARCIENT B CENSO CEN
LOT SIZE:	AVAILABLE: 18.428 AC	<u>REQUIRED</u> : 2 AC		This Sona Contract
FRONTAGE:	1341 FEET	100 FEET		1 in Same
LOT WIDTH:	NONE	200 FEET		LIZA P. SARGENT DATE
BLDG. HEIGHT:	<u>ALLOWED:</u> 60 FEET	<u>PROPOSED</u> : 23 FEET		R.C.E. NUMBER: 13365 ENGINEER:
<u>BUILDING SETBACKS:</u> FRONT: REAR & SIDES:	40' 50'			SVE Associates
PAVEMENT SETBACKS: FRONT: REAR & SIDES:	20' 20'			P.O. Box 1818 439 West River Road Brattleboro, VT 05302
LOT COVERAGE: BUILDINGS: PAVEMENT: TOTAL IMPERMEABLE:	MAXIMUM: 80% (802,723 S.F./14 80% (802,723 S.F./14 80% (802,723 S.F./14	I.7 AC) I.7 AC) I.7 AC)	PROPOSED: 8% (67,100 S.F./ 1.54 AC) 9% (80,085 S.F./ 1.83 AC) 18% (147,185 S.F./3.38 AC)	Phone (802) 257-0561 Fax (802) 257-0721 www.sveassoc.com
<u>Parking:</u> 9' x 18':	REQUIRED: 0.5 SPACE/1,000 GFA + 4 SPACES/1,000 G OFFICE SPACE =	FA	<u>PROPOSED:</u> 131 TOTAL SPACES	
	(64,230/1000 *0.5)+ (2,870 SF/1000 *4)=	12+33 =45		OWNER: NH BLACK BROOK, LLC
A.D.A. ACCESSIBLE:	5		5 OF THE 131 SPACES	5620 OLD MILE HILL ROÁD OREFIELD, PA, 18069
TEST PITS 1 IT DEPTH 60° IT DEPTH 60° IT DEPTH 17 MI STMATED SEASONAL HIGH WATER 60° EPTH TO OBSERVED WATER NOME EPTH TO LEDGE NOME TP#I -2° 7.5YE2.5/2: LOAM; VERY FRIABLE; MASSVE 4.5° -2°	2 78' 1/INCH 3 MIN/INCH 085ERVED NOVE 065ERVED 065ERVED NOVE 065ERVED 072' 7.5'FR2 3.5'	3 84" NONE OBSERVED NONE OBSERVED 5/2; LOAM; VERY FRI	4 70° 70° NONE OBSERVED NONE OBSERVED	
7.5YR4/3; CRAVELLY LOANY FINE SANDY LOAM; FRABLE, MASSVE 18"-60" 10"FRABLE FRABLE PIT BOTTOM 60"	- 5.9%5 Friadau 2.5%5 	//8: LOAMY FINE SAND , MASSIVE * * SANDY LOAM; GRANULAR * I: FINE SANDY LOAM; REAK ANGULAR BLOCK IG AT 60"	; *	PROPOSED ADDITION AMETEK 44 BLACK BROOK ROAD KEENE, NH 03431
TP#3 0-2" 10-2" 7.59R2.5/2; LOAM; VERY FRABLE; MASSIVE 100R3/5; SANDY LOAM; VERY FRABLE; MASSIVE 20"-32" 100R5/6; GRAVLLY FINE SAND; LOOSE, GRAVLLAR 32"-00" 2.5Y5/3; FINE LOAM; LOOSE, GRAVLLAR 32"-00" 2.5Y5/3; FINE LOAM; LOOSE, GRAVLLAR 35"-00" 35"-00" 2.5Y5/1; FINE SANDY LOAM; MOIST, MOTTLING AT 80" 80"-04" 5Y5/1; FINE SANDY LOAM; MOIST, MAIGLAR BLOCKY, FIRM		3; LOAM; VERY FRIAB	LE; ОАМУ	NOTES
Serion of				SCALE: NA
				DATE: JUNE 13, 2024
			۳ 4 ر	SHEET N-1









Plan References

REFERENCES INCLUDE ALL INFORMATION REFERRED TO ON ANY OF THE FOLLOWING PLANS

- WYMAN ROAD INFRASTRUCTURE UPGRADE, ROAD RELOCATION RIGHT OF WAY, EASEMENTS & ACQUISITIONS, DATED APRIL 17, 1995 BY ROGER T. MONSELL, CLOUGH, HARBOUR & ASSOCIATES (Cab. 11, Dr.10 No.13 CCRD)
- AMENDED PLANS, WYMAN ROAD INFRASTRUCTURE UPGRADE, ROAD RELOCATION RIGHT OF WAY, EASEMENTS & ACQUISITIONS, DATED MARCH 5, 1996; BY ROGER T. MONSELL, CLOUGH, HARBOUR & ASSOCIATES (C&L11, Dr.10 No.111 CCRD)
- 6 LOT SUBDIVISION OF LAND DESCRIBED IN BOOK 1530, PAGE 512, PREPARED FOR KEENE ECONOMIC DEVELOPMENT & REVITALIZATION CORPORATION, DATED MARCH 4, 1998; BY ROGER T. MONSELL, CLOUGH, HARBOUR & ASSOCIATES (Cgb. 12 Dr.3 No.90-91 CCRD)
- TWO LOT SUBDIVISION PLAN FREPARED FOR KENDALL LANE OF LAND LOCATED AT TAX MAP 919, BLOCK 8, LOT 3, WYMAN ROAD, KEENE, NH, DATED OCTOBER 24, 2005; BY RUSSELL J. HUNTLEY, SVE ASSOCIATES (Cab.13 Dr.1 No.140 CCRD) SITE PLAN, HILLSIDE VILLAGE, WYMAN ROAD, KEENE, NH, APPLICANT PROSPECT-WOODWARD HOME, LAST REVISED DECEMBER 21, 2016 BY SVE ASSOCIATES (On file at SVE)
- ROAD LAYOUT & WIDENING PLAN, PREPARED FOR CITY OF KEENE & THE PROSPECT-WOODWARD HOME DATED FEBRUARY 1, 2017; BY RUSSELL J. HUNTLEY, SVE ASSOCIATES (Onflie at SVE and KED)
- ALTANISPS LAND TITLE SURVEY, HILLSIDE VILLAGE, 99 WYMAN ROAD, KEENE, NEW HAMPSHIRE, LAST REVISED JUNE 8, 2017; BY RUSSELL J. HUNTLEY, SVE ASSOCIATES (PLAN Nos.17069-72 CCRD)
- EMERGENCY ACCESSEGRESS EASEMENT PLAN ACROSS LANDS OF MONADNOCK ECONOMIC DEVELOPMENT CORPORATION, PREPARED FOR THE PROSPECT-WOODWARD HOME HILLSIDE VILLAGE, DATED MARCH 27, 2017; BY RUSSELL J. HUNTLEY SVE ASSOCIATES (On file al SVE)
- SEWER EASEMENT PLAN ACROSS LANDS OF MONADNOCK ECONOMIC DEVELOPMENT CORPORATION, PREPARED FOR THE PROSPECT-WOODWARD HOME HILLSIDE VILLAGE, DATED MARCH 27, 2017; BY RUSSELL J. HUNTLEY SVE ASSOCIATES (On file at SVE) BOUNDARY LINE ADJUSTMENT PLAN BETWEEN TAX MAP PARCEL 919:09:24 LOCATED AT 99 WYMAN ROAD, KEENE, NEW HAMPSHIRE & TAX MAP PARCEL 919:09:26:01 LOCATED AT BLACK BROOK ROAD, DATED AUGUST 17, 2017; BY RUSSELL J. HUNTLEY, SVE ASSOCIATES (Plan No.1996 CORD)
- EXISTING CONDITIONS PLAN, LAND OF NHBLACK BROOK LLC, DATED DECEMBER 14, 2018; BY RUSSELL J. HUNTLEY, HUNTLEY SURVEY & DESIGN, PLLC, (On File at HSD) 11

Notes

- NORTH SHOWN ON THIS PLAN IS/ARE REFERENCED TO NAD83 NH STATE PLANE GRID, BASED ON A STATIC GPS SURVEY PERFORMED IN CONJUCTION WITH THE SURVEY UTILIZED IN PLAN REFERENCE NO.5
- THE BOUNDARY LINES SHOWN ON THIS PLAN WERE CALCULATED FROM. PLANS REFERENCED AND PHYSICAL EVIDENCE FOUND DURING THE SURVEY.
- TOPOGRAPHY SHOWN ON THIS PLAN IS FROM AN ACTUAL FIELD SURVEY BY SVE PERFORMED DURING THE MONTH OF DECEMBER OF 2018 AND ADDITIONAL SURVEYS PERFORMED BY HUNTLEY SURVEY & DESIGN IN SEPTEMBER 2019 AND JANLARY 2021. THE VERTICAL DATUM IS NAVES 06 GTAINED FROM THE QPS SURVEY YERFERENCED IN NOTE 1, CONTOUR INTERVAL IS ONE (1) FOOT.
- UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES HAVE BEEN PLOTTED FROM DATA OBTAINED FROM RELD SURVEY OF SURFACE LOCATIONS, PREVIOUS MAPS AND RECORDS OBTAINED FROM THE OT OF KEENE DPW. THERE MISTENCE MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITIES THE DASTENCE WAY OF ARE NOT INVOLVE. THE SURE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED FROM TO ANY AND ALL CONSTRUCTION, CALL DIGGAFE FROM TO ANY CONSTRUCTION.
- JURISDICTIONAL WETLANDS WERE DELINEATED BY HUNTLEY SURVEY & DESIGN, PLLC, DURING THE MONTH OF NOVEMBER 2018 USING THE THREE PARAMETER APPROACH DESCRIBED IN TECHNICAL MANUAL V&7-1, <u>THE CORPS OF ENGINEERS AVETLAND DELINEATION</u> MANUAL IN SUPELISMENTED YHE JANLAWS 2012, <u>REGIONAL SUPPE INENT TO THE CORPS OF ENGINEERS AVETLAND DELINEATION</u> MANUAL: NORTHCENTRAL AND NORTHEAST REGION U.S. ARMY CORPS OF ENGINEERS, V.2.



1" = 30'

Surveyor's Certification THIS SURVEY AND PLAT WERE PRODUCED BY ME OR THOSE UNDER MY DRECT SUPERVISION FROM A TOTAL STATION AND DATA COLLECTOR TRAVERSE THAT MEETS THE ALLOWABLE RELATIVE POSITIONAL ACCURACY FOR URBAN AREAS AS REQURED BY THE STATE OF NEW HAMPSHIRE IN TALE (50.1, "ACCURACY MEASUREMENTS, LOCAL ACCURACY OF CONTROL SUPPORTMENTING THE SURVEY," AND IS BASED ON INFORMATION RECORDED AT THE CHESHIFE COUNTY REGISTRY OF DEEDS AS REFERENCED HEREON, INFORMATION PROVIDED BY THE CLIENT AND PHYSICAL EVIDENCE FOUR

THIS IS AN EXISTING SURVEY AND IS SUBSTANTIALLY CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. ALL DIMENSIONS ARE SUBJECT THE ERROR OF CLOSURE PREVIOUSLY STATED.



Existing Conditions Plan LAND OF

NH Black Brook LLC

located at Tax Map Parcel No. 221-021-000-000 44 Black Brook Road, Keene, New Hampshire Book 3005, Page 486

Surveyed 12/2018 & 1/15/2024 Plan prepared 2/5/2024 Project No. H24-003 Cad File No. H24-003 Excon.dwg

Huntley Survey & Design, PLLC NH & VT Land Surveying, Wetlands & NH Septic System Design 9 West Road. Temple. NH 03084 (603) 924-1669 www.huntleysurvey.







(221-022-000-000) NH BLACK BROOK LLC 5520 Old Mie Hill Road Orefield PA 19059	Liga Sargert 6/13/24
3003400	LIZA P. SARGENT DATE R.C.E. NUMBER: 13365
W TREE (TYP.)	ENGINEER: SVE Associates P.O. Box 1818 439 West River Road Brattleboro, VT 05302 Phone (802) 257–0561 Fax (802) 257–0721 www.sveassoc.com
	OWNER: NH BLACK BROOK, LLC 5620 OLD MILE HILL ROAD OREFIELD, PA, 18069
SYSTEMS, INC. 180 Ernerald Street, Suile 204 Keene, IH 10343-3616 182498 LANDSCAPE LEGEND QUANTY SIZE AT PLANTING MATURE HEIGHT ER PEAR 1 2 \$'-3' CAL. 25' STER 2 3 STEMS, 8-10' 20'' LEGEND	REVISIONS: DATE:
O PROPANE TANK SF SILT FENCE, HAVBALES WB WELLAND BUFFER	PROPOSED ADDITION AMETEK 44 BLACK BROOK ROAD KEENE, NH 03431
Improve Improve	SITE PLAN
	SCALE: 1"=30'
GRAPHIC SCALE	
	DATE. JUNE 13, 2024
(IN FEET) 1 inch = 30 ft.	
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t.	Liza Sargent 6/13/24
	LIZA P. SARGENT DATE R.C.E. NUMBER: 13365
	SVE Associates
	P.O. Box 1818 439 West River Road Brattleboro, VT 05302 Phone (802) 257-0561 Fax (802) 257-0721 www.sveassoc.com
	OWNER:
~~ ~	NH BLACK BROOK, LLC 5620 OLD MILE HILL ROAD OREFIELD, PA, 18069
	REVISIONS: DATE:
	PROPOSED ADDITION AMETEK 44 BLACK BROOK ROAD KEENE, NH 03431
	GARDING & DRAINAGE PLAN
	SCALE: 1"=20'
	DATE: JUNE 13, 2024
= // 1 2	SHEET C-2





Lumina	aire sch	eaure								
Symbol	L	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire	Luminaire	Total
								Lumens	Watts	Watts
	€	6	C1	Single	COOPER: HC615D010-HM60525830-61MDH	SEE ARCHITECTURAL DRAWINGS FOR MTNG HEIGHTS - 8' OR 10' AFG	0.900	1511	14	84
	-0	1	S3-EX	Single	EXISTING COOPER: GLEON-AF-01-LED-E1-SL3-HSS	MOUNTED 20' AFG ON COOPER POLE: SSS4A20SFN1	0.900	5446	59	59
	-91	2	W2	Single	COOPER: XTOR4B-Y-CXX	WALL MTD 11' AFG	0.900	3995	37.7	75.4
	10	1	W3	Single	COOPER: ISS-SA1C-830-U-SL3-CXX	WALL MTD 18' AFG	0.900	3595	34.2	34.2
	10	5	W4	Single	COOPER: ISS-SA1E-830-U-SL4-CXX	WALL MTD 18' AFG	0.900	5496	58.2	291
	10	1	W4-EX	Single	EXISTING COOPER: ISS-AF-1000-LED-E1-SL4	WALL MTD 15' AFG	0.900	5230	54.6	54.6
	10	3	W5	Single	COOPER: ISS-SA1E-830-U-T4FT-CXX	WALL MTD 18' AFG	0.900	5641	58.2	174.6
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	OWNER:
	NH BLACK BROOK, LLC 5620 OLD MILE HILL ROAD
●MF 4F DH	OREFIELD, PA, 18069
DH NEW ENGLAND INTERCONNECT	
180 Emerald Street, Suite 204 Keene, NH 03431-3616	REVISIONS: DATE:
1824/98	
	PROPOSED ADDITION
	AMETEK 44 BLACK BROOK ROAD
	KEENE, NH 03431
	PLAN
ALE	SCALE: 1"=30'
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	SHEET LT-1
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RED ANNOTATIONS & NOTES FROM MEETING ON 5/10/2024

PROJECT

AMETEK/Precitech Expansion

44 BLACK BROOK ROAD KEENE, NH 03431

CLIENT NH BLACK BROOK LLC

CURRENT ISSUE

SCHEMATIC DESIGN

PREVIOUS ISSUES

DRAWING TITLE ENLARGED FLOOR PLAN

DRAWN BY: DB|JS PROJ. NO.: SHEET NO.: 1911

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22 of 50

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RED ANNOTATIONS & NOTES FROM MEETING ON 5/10/2024

PROGRESS SET NOT FOR CONSTRUCTION

PROJECT

AMETEK/Precitech Expansion

44 BLACK BROOK ROAD KEENE, NH 03431

CLIENT

NH BLACK BROOK LLC

CURRENT ISSUE

SCHEMATIC DESIGN

PREVIOUS ISSUES

DRAWN BY

PROJ. NO.: SHEET NO.:

DRAWING TITLE

A4.5

23 of 50

DB | JS

1911

ENLARGED ELEVATION

Drainage Summary

for

Ametek Addition 44 Black Brook Road, Keene, NH

Prepared by SVE Associates June 9, 2024

A comparison of peak stormwater runoff for the 25-year rainfall events in the post-development conditions was completed by SVE Associates using HydroCad 10.0 software. The storm event used in the model was the 25-year, Type III, 24-hour storm with a rainfall depth of <u>4.88</u> inches for Keene, NH.

OVERVIEW:

This project will consist of constructing a 6,380-sf addition, modifications to the existing stormwater management system and additional parking spaces.

EXISTING CONDITIONS:

The existing conditions of this development include the building, "temporary loading dock" constructed in 2020, the parking lots and travel isles.

PROPOSED CONDITIONS:

The proposed conditions, modeled in the "Post-Development" drainage model, consist of the existing building, proposed addition, and associated parking. The expanded parking will discharge to the north to a riprap apron, and eventually discharge to the wetland to the north. The northwest corner of the development will discharge to the existing stormwater detention basin that will be expanded, and eventually discharge into the extensive wetland to the north. The northeast basin will also discharge into the extensive wetland to the north.

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	25	year
	Existing	Proposed
	Runoff	Runoff
	(cfs)	(cfs)
Summary Node 100R	6.11	4.69
Summary Node 101R	0.92	1.17

CONCLUSION:

There will be no adverse impact to downstream abutters due to stormwater runoff from the facility. The 0.2 cfs increase to Summary Node 101R in the 25-year storm is statistically insignificant, particularly because of the small drainage area. Overall, there is a net decrease in stormwater runoff post development.

SVE Associates

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

	Metadata for Point
Smoothing	Yes
State	
Location	
Latitude	42.964 degrees North
Longitude	72.331 degrees West
Elevation	160 feet
Date/Time	Tue Jun 11 2024 12:06:47 GMT-0400 (Eastern Daylight Time)

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.28	0.43	0.53	0.69	0.87	1.08	1yr	0.75	1.00	1.24	1.54	1.90	2.35	2.61	1yr	2.08	2.51	2.88	3.52	4.09	1yr
2yr	0.34	0.52	0.64	0.85	1.07	1.33	2yr	0.92	1.19	1.52	1.86	2.27	2.75	3.11	2yr	2.44	2.99	3.49	4.16	4.75	2yr
5yr	0.40	0.62	0.78	1.04	1.34	1.67	5yr	1.15	1.50	1.92	2.34	2.82	3.38	3.86	5yr	2.99	3.72	4.32	5.10	5.80	5yr
10yr	0.45	0.71	0.90	1.22	1.58	2.00	10yr	1.37	1.78	2.29	2.79	3.34	3.96	4.56	10yr	3.51	4.38	5.08	5.95	6.75	10yr
25yr	0.54	0.86	1.09	1.50	1.99	2.52	25yr	1.71	2.24	2.89	3.50	4.16	4.88	5.68	25yr	4.32	5.46	6.30	7.31	8.26	25yr
50yr	0.60	0.97	1.25	1.75	2.36	3.01	50yr	2.04	2.67	3.46	4.17	4.92	5.72	6.71	50yr	5.06	6.45	7.41	8.54	9.62	50yr
100yr	0.70	1.13	1.46	2.06	2.81	3.58	100yr	2.42	3.17	4.11	4.94	5.80	6.71	7.93	100yr	5.94	7.63	8.73	9.98	11.21	100yr
200yr	0.80	1.30	1.68	2.41	3.33	4.27	200yr	2.88	3.78	4.91	5.88	6.86	7.87	9.39	200yr	6.96	9.03	10.28	11.68	13.06	200yr
500yr	0.96	1.58	2.06	2.99	4.19	5.39	500yr	3.62	4.76	6.18	7.37	8.55	9.72	11.75	500yr	8.60	11.29	12.78	14.37	16.00	500yr

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.22	0.33	0.41	0.55	0.68	0.91	1yr	0.58	0.89	0.93	1.20	1.51	2.14	2.45	1yr	1.90	2.36	2.70	3.36	3.81	1yr
2yr	0.32	0.50	0.62	0.83	1.03	1.18	2yr	0.89	1.15	1.33	1.69	2.15	2.68	3.04	2yr	2.38	2.92	3.42	4.06	4.64	2yr
5yr	0.37	0.57	0.71	0.97	1.23	1.40	5yr	1.07	1.37	1.57	1.99	2.49	3.20	3.64	5yr	2.83	3.50	4.09	4.82	5.49	5yr
10yr	0.41	0.63	0.78	1.09	1.41	1.59	10yr	1.21	1.55	1.76	2.22	2.77	3.63	4.17	10yr	3.21	4.01	4.65	5.49	6.16	10yr
25yr	0.47	0.71	0.89	1.27	1.67	1.88	25yr	1.44	1.84	2.08	2.55	3.21	4.32	4.95	25yr	3.82	4.76	5.55	6.51	7.22	25yr
50yr	0.52	0.79	0.98	1.41	1.90	2.14	50yr	1.64	2.09	2.34	2.85	3.57	4.93	5.64	50yr	4.36	5.42	6.35	7.42	8.14	50yr
100yr	0.57	0.87	1.09	1.57	2.15	2.41	100yr	1.86	2.36	2.65	3.17	3.98	5.64	6.44	100yr	4.99	6.19	7.29	8.45	9.18	100yr
200yr	0.64	0.96	1.21	1.76	2.45	2.73	200yr	2.11	2.67	2.99	3.52	4.43	6.44	7.36	200yr	5.70	7.07	8.37	9.64	10.35	200yr
500yr	0.74	1.10	1.41	2.05	2.91	3.21	500yr	2.52	3.14	3.50	4.04	5.09	7.70	8.77	500yr	6.81	8.43	10.04	11.49	12.12	500yr

Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.31	0.47	0.58	0.78	0.96	1.12	1yr	0.82	1.09	1.24	1.59	1.98	2.49	2.76	1yr	2.20	2.65	3.04	3.71	4.31	1yr
2yr	0.35	0.54	0.67	0.91	1.12	1.28	2yr	0.96	1.25	1.43	1.83	2.28	2.82	3.22	2yr	2.50	3.09	3.60	4.26	4.90	2yr
5yr	0.43	0.67	0.83	1.14	1.45	1.68	5yr	1.25	1.65	1.88	2.33	2.88	3.58	4.10	5yr	3.17	3.94	4.54	5.42	6.11	5yr
10yr	0.52	0.79	0.98	1.37	1.77	2.08	10yr	1.53	2.04	2.31	2.81	3.44	4.32	4.97	10yr	3.83	4.78	5.50	6.50	7.35	10yr
25yr	0.65	0.99	1.23	1.75	2.30	2.77	25yr	1.99	2.71	3.04	3.63	4.37	5.53	6.41	25yr	4.89	6.16	7.04	8.26	9.32	25yr
50yr	0.77	1.17	1.46	2.10	2.82	3.45	50yr	2.44	3.37	3.75	4.41	5.23	6.65	7.77	50yr	5.89	7.47	8.48	9.92	11.15	50yr
100yr	0.92	1.39	1.75	2.52	3.46	4.29	100yr	2.99	4.19	4.62	5.36	6.27	8.01	9.44	100yr	7.09	9.08	10.23	11.91	13.37	100yr
200yr	1.11	1.67	2.11	3.06	4.26	5.34	200yr	3.68	5.22	5.71	6.53	7.52	9.64	11.48	200yr	8.53	11.04	12.33	14.30	16.03	200yr
500yr	1.41	2.10	2.70	3.92	5.58	7.14	500yr	4.81	6.98	7.56	8.48	9.58	12.32	14.84	500yr	10.90	14.27	15.79	18.22	20.41	500yr

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Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.395	49	50-75% Grass cover, Fair, HSG A (2S, 3S)
0.642	98	Paved parking, HSG A (2S, 3S, 5S)
1.403	98	Roofs, HSG A (1S)
0.083	98	Water Surface, HSG A (5S)
0.169	36	Woods, Fair, HSG A (3S)
0.132	43	Woods/grass comb., Fair, HSG A (5S)
2.823	85	TOTAL AREA

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Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
2.823	HSG A	1S, 2S, 3S, 5S
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	
2.823		TOTAL AREA

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				•	,		
HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment
 (acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers
0.395	0.000	0.000	0.000	0.000	0.395	50-75% Grass cover, Fair	2S, 3S
0.642	0.000	0.000	0.000	0.000	0.642	Paved parking	2S, 3S,
							5S
1.403	0.000	0.000	0.000	0.000	1.403	Roofs	1S
0.083	0.000	0.000	0.000	0.000	0.083	Water Surface	5S
0.169	0.000	0.000	0.000	0.000	0.169	Woods, Fair	3S
0.132	0.000	0.000	0.000	0.000	0.132	Woods/grass comb., Fair	5S
2.823	0.000	0.000	0.000	0.000	2.823	TOTAL AREA	

Ground Covers (all nodes)

3

50P

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520.20

15.0

0.0

	Pipe Listing (all hodes)										
Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)		
1	1S	0.00	0.00	200.0	0.0080	0.013	0.0	15.0	0.0		
2	5P	518.61	517.84	40.0	0.0192	0.013	0.0	15.0	0.0		

0.0073

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175.0

K2667 DRAINAGE PRE 6-9-2024	<i>Type III 24-hr 25 yr Rainfall=4.88"</i>
Prepared by SVE Associates	Printed 6/11/2024
HydroCAD® 10.10-4b s/n 04481 © 2020 Hydro	oCAD Software Solutions LLC Page 6
Time span=0.00	-48.00 hrs, dt=0.01 hrs, 4801 points
Runoff by SCS TR	-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Tr	ans method - Pond routing by Stor-Ind method
Subcatchment 1S: EX. BLDG	Runoff Area=61,100 sf 100.00% Impervious Runoff Depth=4.64"
Flow Length=200'	Slope=0.0080 '/' Tc=0.7 min CN=98 Runoff=8.06 cfs 0.543 af
Subcatchment 2S: W. OF BLDG	Runoff Area=8,920 sf 81.00% Impervious Runoff Depth=3.66"
Flow Length=50'	Slope=0.0600 '/' Tc=3.9 min CN=89 Runoff=0.92 cfs 0.062 af
Subcatchment 3S: N. OF BLDG	Runoff Area=43,090 sf 46.91% Impervious Runoff Depth=1.95"
Flow Length=60'	Slope=0.0500 '/' Tc=4.9 min CN=70 Runoff=2.30 cfs 0.161 af
Subcatchment 5S: FOREST	Runoff Area=9,880 sf 41.90% Impervious Runoff Depth=1.65"
Flow Length=30'	Slope=0.0330 '/' Tc=3.3 min CN=66 Runoff=0.46 cfs 0.031 af
Reach 100R: N SUMMARY	Inflow=6.11 cfs 0.734 af Outflow=6.11 cfs 0.734 af
Reach 101R: SW SUMMARY	Inflow=0.92 cfs 0.062 af Outflow=0.92 cfs 0.062 af
Pond 5P: EX. DETENTION BASIN 15.0" Round	Peak Elev=519.92' Storage=5,096 cf Inflow=8.42 cfs 0.574 af Culvert n=0.013 L=40.0' S=0.0192 '/' Outflow=3.85 cfs 0.574 af
Pond 50P: EX. CB	Peak Elev=524.19' Inflow=8.06 cfs 0.543 af
15.0" Round (Culvert n=0.013 L=175.0' S=0.0073 '/' Outflow=8.06 cfs 0.543 af
Total Dupoff Area - 2.922	Do Bunoff Volume - 0.707 of Average Bunoff Donth - 2.20"

Total Runoff Area = 2.823 acRunoff Volume = 0.797 afAverage Runoff Depth = 3.39"24.64% Pervious = 0.696 ac75.36% Impervious = 2.128 ac

Summary for Subcatchment 1S: EX. BLDG

Runoff = 8.06 cfs @ 12.01 hrs, Volume= 0.543 af, Depth= 4.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 25 yr Rainfall=4.88"

A	rea (sf)	CN I	Description		
	61,100	98 I	Roofs, HSG	λA	
	61,100	-	100.00% In	npervious A	rea
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	200	0.0080	4.71	5.78	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior

Summary for Subcatchment 2S: W. OF BLDG

Runoff = 0.92 cfs @ 12.06 hrs, Volume= 0.062 af, Depth= 3.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 25 yr Rainfall=4.88"

A	rea (sf)	CN	Description					
	7,225	98	Paved park	ing, HSG A	1			
	1,695	49	50-75% Gra	ass cover, F	Fair, HSG A			
	8,920	89	Weighted A	verage				
	1,695		19.00% Per	vious Area				
	7,225		81.00% Imp	pervious Are	ea			
То	Longth	Slop	o Volocity	Capacity	Decoription			
IC (realize)	Lengin	Siop		Capacity	Description			
<u>(min)</u>	(teet)	(11/11	(IT/Sec)	(CIS)				
3.9	50	0.060	0 0.21		Sheet Flow,			
					Grass: Short	n= 0.150	P2= 2.75"	

Summary for Subcatchment 3S: N. OF BLDG

Runoff = 2.30 cfs @ 12.08 hrs, Volume= 0.161 af, Depth= 1.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 25 yr Rainfall=4.88"

Ar	ea (sf)	CN	Description
	20,215	98	Paved parking, HSG A
-	15,515	49	50-75% Grass cover, Fair, HSG A
	7,360	36	Woods, Fair, HSG A
4	43,090	70	Weighted Average
	22,875		53.09% Pervious Area
	20,215		46.91% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
4.9	60	0.0500	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 2.75"				
	Summary for Subcatchment 5S: FOREST								
Runoff	=	0.46 cfs	s@ 12.00	6 hrs, Volu	me= 0.031 af, Depth= 1.65"				
Runoff b Type III 2	y SCS TF 24-hr 25	R-20 meth yr Rainfa	nod, UH=S II=4.88''	CS, Weigh	ted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs				
A	rea (sf)	CN D	escription						
	5,740	43 W	loods/gras	ss comb., F	air, HSG A				
	3,600 540	98 W	ater Surfa aved parki	ing HSG A					
	9,880 5,740 4,140	66 W 56 4	/eighted A 8.10% Per 1.90% Imp	verage vious Area pervious Area	ea				
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
3.3	30	0.0330	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 2.75"				

Summary for Reach 100R: N SUMMARY

Inflow Are	ea =	2.619 ac, 7	74.91% Impe	ervious,	Inflow Depth =	3.3	36" for 25	yr event
Inflow	=	6.11 cfs @	12.08 hrs,	Volume=	= 0.734	af		
Outflow	=	6.11 cfs @	12.08 hrs,	Volume=	= 0.734	· af,	Atten= 0%,	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Summary for Reach 101R: SW SUMMARY

Inflow Area	a =	0.205 ac, 8	1.00% Impe	ervious,	Inflow Depth :	= 3.6	6" for 25	yr event
Inflow	=	0.92 cfs @	12.06 hrs,	Volume	= 0.06	2 af		
Outflow	=	0.92 cfs @	12.06 hrs,	Volume	= 0.06	2 af,	Atten= 0%,	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Summary for Pond 5P: EX. DETENTION BASIN

Inflow Area	ι =	1.629 ac, 9	1.91% Impe	rvious, Inflow D	epth = 4.23	' for 25 yr	^r event
Inflow	=	8.42 cfs @	12.01 hrs, '	Volume=	0.574 af		
Outflow	=	3.85 cfs @	12.11 hrs, '	Volume=	0.574 af, A	tten= 54%,	Lag= 5.8 min
Primary	=	3.85 cfs @	12.11 hrs, '	Volume=	0.574 af		

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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Peak Elev= 519.92' @ 12.11 hrs Surf.Area= 4,295 sf Storage= 5,096 cf

Plug-Flow detention time= 50.3 min calculated for 0.574 af (100% of inflow) Center-of-Mass det. time= 50.1 min (799.7 - 749.7)

Volume	Inver	t Avail.Stor	rage Storage D	escription	
#1	518.61	' 15,60	07 cf Custom S	Stage Data (Pri	ismatic) Listed below (Recalc)
Elevatio (fee	n S t)	urf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
518.6 520.0 521.0 522.0	1 0 0 0	3,510 4,345 5,080 5,790	0 5,459 4,713 5,435	0 5,459 10,172 15,607	
Device	Routing	Invert	Outlet Devices		
#1	Primary	518.61'	15.0'' Round C L= 40.0' CPP, Inlet / Outlet Inv n= 0.013 Corru	Culvert projecting, no vert= 518.61' / ugated PE, smo	headwall, Ke= 0.900 517.84' S= 0.0192 '/' Cc= 0.900 ooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.85 cfs @ 12.11 hrs HW=519.92' (Free Discharge) **1=Culvert** (Inlet Controls 3.85 cfs @ 3.14 fps)

Summary for Pond 50P: EX. CB

Inflow Area	a =	1.403 ac,100.00% Impervious, Inflow D	epth = 4.64" for 25 yr event
Inflow	=	8.06 cfs @ 12.01 hrs, Volume=	0.543 af
Outflow	=	8.06 cfs @ 12.01 hrs, Volume=	0.543 af, Atten= 0%, Lag= 0.0 min
Primary	=	8.06 cfs @ 12.01 hrs, Volume=	0.543 af
Douting by	Ctor Inc	d method Time Span 0.00.48.00 hrs. dt	0.01 hrs

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Peak Elev= 524.19' @ 12.01 hrs Flood Elev= 523.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	520.20'	15.0" Round Culvert L= 175.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 520.20' / 518.93' S= 0.0073 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=8.05 cfs @ 12.01 hrs HW=524.18' (Free Discharge) 1=Culvert (Barrel Controls 8.05 cfs @ 6.56 fps)

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Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.241	49	50-75% Grass cover, Fair, HSG A (2S, 3S)
0.658	98	Paved parking, HSG A (2S, 3S, 5S)
1.540	98	Roofs, HSG A (1S)
0.177	98	Water Surface, HSG A (5S)
0.169	36	Woods, Fair, HSG A (3S)
0.037	43	Woods/grass comb., Fair, HSG A (5S)
2.823	89	TOTAL AREA

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Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
2.823	HSG A	1S, 2S, 3S, 5S
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	
2.823		TOTAL AREA

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HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
 0.241	0.000	0.000	0.000	0.000	0.241	50-75% Grass cover, Fair	2S, 3S
0.658	0.000	0.000	0.000	0.000	0.658	Paved parking	2S, 3S,
							5S
1.540	0.000	0.000	0.000	0.000	1.540	Roofs	1S
0.177	0.000	0.000	0.000	0.000	0.177	Water Surface	5S
0.169	0.000	0.000	0.000	0.000	0.169	Woods, Fair	3S
0.037	0.000	0.000	0.000	0.000	0.037	Woods/grass comb., Fair	5S
2.823	0.000	0.000	0.000	0.000	2.823	TOTAL AREA	

Ground Covers (all nodes)

Line#

1

2

3

50P

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518.93

519.83

15.0

0.0

Node In-Invert Out-Invert Length Slope n Width Diam/Height Inside-Fill Number (feet) (feet) (feet) (ft/ft) (inches) (inches) (inches) 1S 0.00 0.00 200.0 0.0080 0.013 0.0 15.0 0.0 5P 518.61 517.84 40.0 0.0192 0.013 0.0 15.0 0.0

0.0062

0.013

0.0

Pipe Listing (all nodes)

145.0

K2667 DRAINAGE POST 6-9-2024	<i>Type III 24-hr 25 yr Rainfall=4.88"</i>
Prepared by SVE Associates	Printed 6/11/2024
HydroCAD® 10.10-4b s/n 04481 © 2020 Hydro	OCAD Software Solutions LLC Page 6
-Time span=0.00	48.00 hrs, dt=0.01 hrs, 4801 points
Runoff by SCS TR	-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Tr	ans method - Pond routing by Stor-Ind method
Subcatchment 1S: EX. BLDG & ADDITION	Runoff Area=67,100 sf 100.00% Impervious Runoff Depth=4.64"
Flow Length=200'	Slope=0.0080 '/' Tc=0.7 min CN=98 Runoff=8.86 cfs 0.596 af
Subcatchment 2S: W. OF BLDG	Runoff Area=11,545 sf 78.87% Impervious Runoff Depth=3.56"
Flow Length=50'	Slope=0.0600 '/' Tc=3.9 min CN=88 Runoff=1.17 cfs 0.079 af
Subcatchment 3S: N OF BLDG	Runoff Area=34,435 sf 55.21% Impervious Runoff Depth=2.19"
Flow Length=30'	Slope=0.2500 '/' Tc=1.5 min CN=73 Runoff=2.36 cfs 0.144 af
Subcatchment 5S: FOREST	Runoff Area=9,880 sf 83.60% Impervious Runoff Depth=3.66"
Flow Length=30'	Slope=0.0330 '/' Tc=3.3 min CN=89 Runoff=1.04 cfs 0.069 af
Reach 100R: N SUMMARY	Inflow=4.69 cfs 0.806 af Outflow=4.69 cfs 0.806 af
Reach 101R: SW SUMMARY	Inflow=1.17 cfs 0.079 af Outflow=1.17 cfs 0.079 af
Pond 5P: EXPANDED DETENTION BASIN	Peak Elev=520.11' Storage=8,288 cf Inflow=9.73 cfs 0.665 af Outflow=2.73 cfs 0.662 af
Pond 50P: NEW CB 15.0" Round Culvert	Peak Elev=521.36' Inflow=8.86 cfs 0.596 af x 2.00 n=0.013 L=145.0' S=0.0062 '/' Outflow=8.86 cfs 0.596 af

Total Runoff Area = 2.823 acRunoff Volume = 0.888 afAverage Runoff Depth = 3.77"15.85% Pervious = 0.447 ac84.15% Impervious = 2.375 ac

Summary for Subcatchment 1S: EX. BLDG & ADDITION

Runoff = 8.86 cfs @ 12.01 hrs, Volume= 0.596 af, Depth= 4.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 25 yr Rainfall=4.88"

A	rea (sf)	CN	Description		
	67,100	98	Roofs, HSG	λA	
	67,100		100.00% In	npervious A	rea
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	200	0.0080	4.71	5.78	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior

Summary for Subcatchment 2S: W. OF BLDG

Runoff = 1.17 cfs @ 12.06 hrs, Volume= 0.079 af, Depth= 3.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 25 yr Rainfall=4.88"

A	rea (sf)	CN	Description					
	9,105	98	Paved park	ing, HSG A				
	2,440	49	50-75% Gra	ass cover, F	Fair, HSG A			
	11,545	88	Weighted A	verage				
	2,440		21.13% Per	vious Area				
	9,105		78.87% Imp	pervious Are	ea			
_				- ·				
Tc	Length	Slope	e Velocity	Capacity	Description			
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)				
3.9	50	0.060	0.21		Sheet Flow,			
					Grass: Short	n= 0.150	P2= 2.75"	

Summary for Subcatchment 3S: N OF BLDG

Runoff = 2.36 cfs @ 12.03 hrs, Volume= 0.144 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 25 yr Rainfall=4.88"

 Area (sf)	CN	Description
7,360	36	Woods, Fair, HSG A
19,010	98	Paved parking, HSG A
 8,065	49	50-75% Grass cover, Fair, HSG A
 34,435	73	Weighted Average
15,425		44.79% Pervious Area
19,010		55.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	30	0.2500	0.34		Sheet Flow,
					Grass: Short n= 0.150 P2= 2.75"
			Summa	ary for Su	bcatchment 5S: FOREST
Runoff	=	1.04 cfs	s@ 12.0	5 hrs, Volu	me= 0.069 af, Depth= 3.66"
Runoff b Type III 2	y SCS TF 24-hr 25	R-20 meth yr Rainfa	nod, UH=S .ll=4.88"	SCS, Weigh	ted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Α	rea (sf)	CN D	escription		
	1,620	43 V	Voods/gra	ss comb., F	air, HSG A
	7,720	98 V	Vater Surfa	ace, HSG A	N Contraction of the second seco
	540	98 P	aved park	ing, HSG A	
	9,880	89 V	Veighted A	verage	
	1,620	1	6.40% Pei	rvious Area	
	8,260	8	3.60% Imp	pervious Are	ea
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	30	0.0330	0.15		Sheet Flow,

Grass: Short n= 0.150 P2= 2.75"

Summary for Reach 100R: N SUMMARY

Inflow A	rea =	2.558 ac, 8	34.70% Impe	ervious,	Inflow Depth	ı> 3.7	78" for 25	yr event
Inflow	=	4.69 cfs @	12.03 hrs,	Volume	= 0.8	306 af		
Outflow	=	4.69 cfs @	12.03 hrs,	Volume	= 0.8	306 af,	Atten= 0%,	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Summary for Reach 101R: SW SUMMARY

Inflow Area	a =	0.265 ac, 7	78.87% Impe	ervious,	Inflow Depth =	3.5	56" for 25	yr event
Inflow	=	1.17 cfs @	12.06 hrs,	Volume	= 0.079	af		
Outflow	=	1.17 cfs @	12.06 hrs,	Volume	= 0.079	af,	Atten= 0%,	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Summary for Pond 5P: EXPANDED DETENTION BASIN

Inflow Area	a =	1.767 ac, 9	7.90% Impe	ervious,	Inflow De	epth =	4.52"	for 25	/r event	
Inflow	=	9.73 cfs @	12.01 hrs,	Volume	=	0.665	af			
Outflow	=	2.73 cfs @	12.29 hrs,	Volume	=	0.662	af, Atte	n= 72%	Lag= 1	6.7 min
Primary	=	2.73 cfs @	12.29 hrs,	Volume	=	0.662	af			

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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Peak Elev= 520.11' @ 12.29 hrs Surf.Area= 6,092 sf Storage= 8,288 cf

Plug-Flow detention time= 76.5 min calculated for 0.662 af (99% of inflow) Center-of-Mass det. time= 73.3 min (822.0 - 748.6)

Volume	Inve	ert Avail.Sto	rage Storage [Description	
#1	518.6	1' 21,30	07 cf Custom	Stage Data (Pris	matic) Listed below (Recalc)
Elevatio (fee	on et)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
518.6 520.0 521.0	51 00 00	5,000 6,010 6,790	0 7,652 6,400	0 7,652 14,052	
522.0	00	7,720	7,255	21,307	
Device	Routing	Invert	Outlet Devices		
#1	Device 2	518.61'	15.0'' Round (L= 40.0' CPP Inlet / Outlet In n= 0.013 Corr	Culvert , projecting, no h vert= 518.61' / 5 ugated PE, smo	neadwall, Ke= 0.900 17.84' S= 0.0192 '/' Cc= 0.900 oth interior, Flow Area= 1.23 sf
#2	Primary	518.61'	10.0" Vert. 10"	Orifice C= 0.0	600 Limited to weir flow at low heads

Primary OutFlow Max=2.73 cfs @ 12.29 hrs HW=520.11' (Free Discharge)

-2=10" Orifice (Orifice Controls 2.73 cfs @ 5.00 fps) -1=Culvert (Passes 2.73 cfs of 4.35 cfs potential flow)

Summary for Pond 50P: NEW CB

Inflow Area	ι =	1.540 ac,10	0.00% Impervious	s, Inflow Depth =	4.64" for 25	yr event
Inflow	=	8.86 cfs @	12.01 hrs, Volum	1e= 0.596	af	
Outflow	=	8.86 cfs @	12.01 hrs, Volum	1e= 0.596	af, Atten= 0%,	Lag= 0.0 min
Primary	=	8.86 cfs @	12.01 hrs, Volum	1e= 0.596	af	

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Peak Elev= 521.36' @ 12.01 hrs Flood Elev= 523.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	519.83'	15.0'' Round Culvert X 2.00 L= 145.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 519.83' / 518.93' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=8.84 cfs @ 12.01 hrs HW=521.35' (Free Discharge)

Traffic Memo associated with

Ametek Expansion 44 Black Brook Road, Keene, NH

prepared June 12, 2024

Ametek is proposing to construct a 6,380-sf addition (9,045-sf including the existing loading dock) off Black Brook Road. The addition was previously approved in a slightly different configuration in 2020. It was not constructed due to the pandemic. Ametek employs approximately 125 staff at the facility. Delivery vehicles vary in size from a single unit box truck to a WB-67 tractor trailer.

Using the Institute of Transportation Engineers Trip Generation Manual:

Existing Manufacturing Facility – 61,100 sf

Average vehicle trip ends - weekday $3.82(61,100 \text{ sf}/1,000 \text{ sf}) = \underline{233 \text{ vpd}}$

Average vehicle trip ends -weekday AM peak hour $0.78(61,100 \text{ sf}/1,000 \text{ sf}) = \frac{48 \text{ vph}}{68\%}$ entering = 32 vph, 32% exiting = 16 vph)

Average vehicle trip ends – weekday PM peak hour 0.75 (61,100 sf/1,000 sf) = <u>46 vph</u> (52% entering = 24 vph, 48% exiting = 22 vph)

Peak hour adjacent street between 4 and 6 PM 0.73(61,100 sf/ 1,000 sf) = 45 vph (36% entering = 16 vph, 64% existing = 29 vph)

Proposed Manufacturing Facility-67,100 sf

Average vehicle trip ends - weekday 3.82(67,100 sf/1,000 sf) = 256 vpd

Average vehicle trip ends -weekday AM peak hour 0.78(67,100 sf/1,000 sf) = 52 vph (68% entering = 36 vph, 32% exiting = 16 vph)

Average vehicle trip ends – weekday PM peak hour 0.75 (67,100 sf/1,000 sf) = <u>50 vph</u> (52% entering = 26 vph, 48% exiting = 24 vph)

Peak hour adjacent street between 4 and 6 PM $0.73(67,100 \text{ sf}/1,000 \text{ sf}) = \underline{49 \text{ vph}} (36\% \text{ entering} = 18 \text{ vph}, 64\% \text{ existing} = 31 \text{ vph})$

Change in Average vehicle trip ends-weekday = +23 vpd Change in Average vehicle trip ends- weekday AM peak hour = +4 vph Change in Average vehicle trip ends – weekday PM peak hour = +4 vph Change in Peak adjacent street between 4 and 6 PM = +4 vph

We estimate the impact of new traffic to be 23 new trip ends per day.

SVE Associates

DESCRIPTION

The patented Lumark Crosstour LED Wall Pack Series of luminaries provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. Onepiece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K, 4000K and 3000K CCT.

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking, LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized

ESCUTCHEON PLATES

electrical wiring compartment. Integral LED electronic driver is standard 0-10V dimming. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life. Options to meet Buy American and other domestic preference requirements.

Warranty Five-year warranty.

XTOR CROSSTOUR LED

CERTIFICATION DATA Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only) UL/cUL Wet Location Listed LM79 / LM80 Compliant ROHS Compliant ADA Compliant NOM Compliant Models IP66 Ingressed Protection Rated Title 24 Compliant DesignLights Consortium® Qualified*

TECHNICAL DATA 40°C Maximum Ambient Tempera

40°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum

EPA Effective Projected Area (Sq. Ft.): XTOR1B, XTOR2B, XTOR3B=0.34 XTOR4B=0.45

SHIPPING DATA: Approximate Net Weight: 3.7 - 5.25 lbs. [1.7 - 2.4 kgs.]

> TD514013EN December 14, 2021 5:27 PM

DIMENSIONS

_____ 10" [254mm] _____

Project	Catalog #	Туре	
Prepared by	Notes	Date	

🖌 Interactive Menu

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- Energy and Performance Data Page 3
- Control Options page 4

McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Product Certifications

Quick Facts

¥

- 15 Optical Distributions
- Lumen packages range from 2,459 to 11,480 (20W - 95W)
- Efficacy up to 149 lumens per watt

P Connected Systems

- WaveLinx
- Enlighted

Dimensional Details

Project	Catalog #	Тур	pe
Prepared by	Notes	Date	e

HALO Commercial

HC6 | HM6 | 61 | 61PS

6-inch LED downlight and wall wash

Typical Applications

FC

Product Certification

24

Office · Healthcare · Hospitality · Institutional · Mixed-Use/Retail

Product Features

10

Control Compatibility

P Interactive Menu

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- Energy & Performance Data page 8
- Connected Systems page 10
- Product Warranty

Top Product Features

- · New construction/remodel series; 500 to 6,000 lumens
- · Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- · 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- · Mounting frame converts to remodel that installs from below the ceiling
- · Quick Spec emergency backup mounting frames fast delivery option

NEW CONSTRUCTION - MID LUMEN Soor AND 4000 LUMEN Incodule Regint Lear rate) LED heght See Tobel See Tobe

Mid Lumen (3000 - 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6'	3.4"	3.8"
Medium	6.7*	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5*	3.3*	3.7"

