



KEENE PLANNING BOARD  
Council Chambers, Keene City Hall  
May 26, 2026  
6:30 PM

**A. CALL TO ORDER & ROLL CALL**

**B. MINUTES FROM PRECEDING MEETING**

1. April 27, 2026

**C. EXTENSION REQUESTS**

**D. FINAL VOTE ON CONDITIONAL APPROVALS**

1. Applications Ready for Final Approval

**E. BOUNDARY LINE ADJUSTMENT**

**F. CONTINUED PUBLIC HEARINGS:**

**G. PUBLIC HEARINGS**

1. **PB-26-10 - Habitat for Humanity Duplex, Cottage Court Conditional Use Permit** — Applicant SVE Associates, on behalf of owner Monadnock Habitat for Humanity, proposes to construct a 1,364 sq-ft duplex at the property located at 0 Grove St. (TMP# 585-057-000). The parcel is ~.11 ac and is located in the Residential Preservation District.
2. **PB-26-9 - Froling Energy Site Modifications, Major Site Plan** – Applicant and owner 560 Main Street LLC proposes to create two curb cuts on Manchester St., demolish an existing ~590-sf building, replace the siding on the principal building, and improve an existing gravel area at 20 & 37 Manchester St. (TMP#s 114-012-000 & 114-003-000). The parcels are located in the Commerce & Industrial Districts.
3. **PB-26-11 - GMS Parking Lot Expansion - Major Site Plan & Surface Water Protection Conditional Use Permit** - Applicant Fieldstone Land Consultants, on behalf of owner GMS Realty LLP, proposes to expand the

rear parking lot and install stormwater management infrastructure within the 30-ft surface water buffer on the lot at 30 Production Ave. The property is ~3.1 ac and is in the Industrial District.

4. **PB-26-12 - Elm-Carroll Cottage Court - Major Site Plan & Cottage Court Conditional Use Permit** - Applicant Fieldstone Land Consultants, on behalf of owner Nuevo Transfers LLC, proposes to construct four townhouse-style multifamily buildings with a total of 14 units. The property is ~.75 ac and is in the Medium Density District.
5. **PB-26-13 - George St. Cottage Court Conditional Use Permit** - Applicant A. Eli Leno, on behalf of owner NH Home Buyers LLC, proposes to convert a detached garage into a dwelling unit on the single-family property located at 135 George St. (TMP# 534-002-000). The property is ~.26 ac and is in the Low Density District.

#### **H. OTHER BUSINESS**

#### **I. STAFF UPDATES**

#### **J. NEW BUSINESS**

#### **UPCOMING DATES OF INTEREST**

- Joint Committee of the Planning Board and PLD - June 8, 6:30 PM
- Planning Board Steering Committee - June 9, 12:00 PM
- Planning Board Site Visit - June 17, 8:00 AM - To be confirmed
- Planning Board Meeting — June 22, 6:30 PM

#### **K. MORE TIME ITEMS**

#### **ADJOURNMENT**

**City of Keene  
New Hampshire**

**PLANNING BOARD**  
**MEETING MINUTES**

**Monday, April 25, 2026**

**6:30 PM**

**Council Chambers,  
City Hall**

**Members Present:**

Kenneth Kost, Chair Pro Tem  
David Bergeron  
Andrew Madison  
Mayor Jay V. Kahn  
Joseph Cocivera, Alternate

**Staff Present:**

Mari Brunner, Senior Planner  
Evan Clements, Planner / Zoning Administrator

**Members Not Present:**

Harold Farrington, Chair  
Roberta Mastrogiovanni, Vice Chair  
Michael Hoefer  
Councilor Molly Ellis  
Stephon Mehu, Alternate  
Tammy Adams, Alternate

**1) CALL TO ORDER & ROLL CALL**

Senior Planner Mari Brunner asked for Kenneth Kost to be appointed as Chair Pro-Tem. Joseph Cocivera was asked to join the session as a voting member.

A motion was made by Andrew Madison to nominate Kenneth Kost as Chair Pro-Tem. The motion was seconded by Mayor Kahn and was unanimously approved.

Chair Kost called the meeting to order at 6:30 pm and a roll call was taken.

**2) MINUTES FROM PRECEDING MEETING - March 23, 2026**

A motion was made by Mayor Kahn to approve the meeting minutes of March 23, 2026. The motion was seconded by Andrew Madison and was unanimously approved.

**3) EXTENSION REQUESTS**

1. PB-2025-06 – Cottage Court Conditional Use Permit, Major Site Plan, & Surface Water Protection Conditional Use Permit – Guitard Homes, Court St – Applicant Fieldstone Land Consultants PLLC, on behalf of owner Guitard Homes LLC, requests a second extension to the deadline to satisfy the precedent conditions of approval for the proposed 29-unit single-family Cottage Court Development on the undeveloped lot at 0 St (TMP #228-016-000). The parcel is ~9.7-ac in size and is located in the Low Density District.

29 Ms. Brunner stated the applicant is not present tonight for this extension request. This extension  
30 request was filed at the request of staff because there was a lapse between when the application  
31 would have expired and this evening. She explained the extension request is to make sure that  
32 the application would not expire prior to the granting of final approval this evening. She noted  
33 the applicant met all conditions for final approval prior to the expiration, but had to wait for this  
34 Planning Board meeting date; this was the reason for the extension request. Staff advised the  
35 applicant that they did not need to be present this evening for the extension request - the project  
36 is ready to get started.

37  
38 Mayor Kahn felt the public is interested in this project and asked for added clarification as to  
39 how the project would be moving forward. He also noted that clearing of the site was going to be  
40 in phases but that does not seem to be the case and felt the project has evolved since the time it  
41 was approved.

42  
43 Ms. Brunner responded to the Mayor and stated that she believes this project received one  
44 extension previously. They have been working on meeting their conditions of approval for quite  
45 some time. They were able to meet their conditions of approval, but because they met the  
46 conditions of approval a few days after the expiry date, they submitted the extension request to  
47 keep their approval valid. The project is still moving forward.

48  
49 Clearing has happened on the site, and they have started to install some of the erosion control  
50 measures to make sure there is no sedimentation leaving the site. However, no site work can  
51 begin until after they receive final approval from the Board this evening.

52  
53 The project is still planned to occur in phases. Phase one is the phase that is closest to the street.  
54 In order to get the transmission lines in due to the location of the pole, additional tree clearing is  
55 required which wasn't shown on the original plan. The applicant is proposing to replant that area  
56 after the clearing has taken place.

57  
58 Ms. Brunner noted this was the only change from when the plan was approved by the Board.

59  
60 The Mayor clarified the electrical lines are being fed from the back of the property to the front of  
61 the site. Ms. Brunner answered in the negative and noted they are coming from the street. There  
62 was supposed to be a buffer of mature trees that was to remain between the road and the site but  
63 some of these had to be removed, in order to get the transmission lines through.

64  
65 As far as the rear of the site, the applicant ended up clearing that area at the same time as the  
66 front of the site. Tree clearing was done a few months ago and agreed it was very visible.

67  
68 A motion was made by Mayor Kahn that the Planning Board grant a second 6 month, 180-day  
69 extension to the timeframe to satisfy the precedent conditions of approval for PB-2025-06. The  
70 motion was seconded by Andrew Madison and was unanimously approved.

71  
72 **4) FINAL VOTE ON CONDITIONAL APPROVALS**

73 Chair Kost stated this is this is a standing agenda item. As a matter of practice, the Board will  
74 issue a final vote on all conditionally approved plans after all of the “conditions precedent” have  
75 been met. The Chair asked whether there were any applications that are ready for final vote.  
76

77 Ms. Brunner stated there were two applications tonight that are ready for final approval, one of  
78 which was listed in the agenda packet; PB-2025-06 Cottage Court Conditional Use Permit,  
79 Major Site Plan and Surface Water Protection Conditional Use Permit for Guitard Homes located  
80 at 0 Court Street, Tax map parcel number 228-016-000. There were six conditions precedent,  
81 including: 1) Owner signature appears on the plans; 2) Submittal of five full size paper copies  
82 and a digital copy of the final plan set, including renderings; 3) Submittal of an updated plan set  
83 that addresses all outstanding comments from the City Engineer and shows the proposed name  
84 for the private driveway; 4) Submittal of security and in a form and an amount acceptable to the  
85 Community Development Director to cover the cost of landscaping, sediment and erosion  
86 control measures and as built plans; 5) Submittal of draft written documentation of the required  
87 utility easements and any other necessary legal instruments required for this application, which  
88 shall be subject to review by the City Attorney; and 6) Approved permit numbers for the  
89 Shoreline Protection Alteration of Terrain and Wetlands Permits, as well as any other required  
90 state permits, shall be added to the proposed conditions plan of the plan set.  
91

92 All conditions have been met.  
93

94 A motion was made by Mayor Kahn that the Planning Board issue final approval for PB-2025-  
95 06. The motion was seconded by Andrew Madison and carried on a unanimous vote.  
96

97 The second item is PB-2025-20, Cottage Court Conditional Use Permit, Surface Water  
98 Protection CUP and Major Site Plan, for property at 454 Elm Street. This application had four  
99 conditions precedent to final approval, including: 1) Owner’s signature appears on the plan; 2)  
100 Submittal of five paper copies and a digital copy of the final plan; 3) Submittal of a security in a  
101 form and an amount acceptable to the Community Development Director. The fourth condition  
102 precedent was submittal of draft written documentation of the required utility easements and any  
103 other necessary legal instruments required for this application, subject to review by the City  
104 Attorney. Staff is recommending to make that a condition subsequent to final approval. Ms.  
105 Brunner noted this was at the request of the City Attorney, who felt that it would be better to  
106 include a condition that also required that the easement would be executed. She noted the first  
107 three conditions have been met and then if the Board decides to issue final approval this evening  
108 and make the fourth condition a condition subsequent then that would be met after the client’s  
109 plans are finalized and signed.  
110

111 Mr. Madison stated he is not seeing any supporting documents included in the packet for this  
112 item. Ms. Brunner explained this application met its final condition of approval today. She noted  
113 the agenda packet comes out ten days before the meeting. Applications that meet their conditions  
114 for approval between the timeframe when the agenda packet goes out and the meeting date, is  
115 brought to the Board the night of the meeting. She added the complete folder is available  
116 including plans should the Board wish to review them. This is for the 18-unit Cottage Court on  
117 Elm Street.

118 The Mayor asked whether this requires a subsequent action of the Board. Ms. Brunner answered  
119 in the negative and stated if the Board issues final approval this evening, then that would be the  
120 final approval. However, staff would follow up on all subsequent conditions. If the applicant  
121 were to not comply with those conditions subsequent, the application would go through an  
122 enforcement process which could ultimately end up coming back to the Board to revoke the  
123 approval, which she noted was very rare.

124  
125 The Mayor clarified the subsequent review is for the utility easement. Ms. Brunner stated there  
126 are a number of conditions subsequent they would be held to and referred to that language:

127 *Subsequent to final approval –*

128 1) *Prior to the commencement of site work, the Community Development Department shall*  
129 *be notified when all erosion control measures have been installed and the 30-foot surface water*  
130 *buffer is flagged by a surveyor licensed in the State of New Hampshire.*

131 2) *Community Development staff shall inspect the erosion control measures and wetland*  
132 *flagging to ensure compliance with the approved plans in all City of Keene regulations.*

133 3) *Submittal of recorded utility easements and any other legal instruments necessary for this*  
134 *application to the Community Development Department.*

135 4) *The applicant shall obtain final acceptance of the new utilities from the Keene City*  
136 *Council, following the completion of all infrastructure construction.*

137 5) *Following the initial installation of plantings, the Community Development Department*  
138 *shall be contacted to perform an initial landscaping inspection.*

139 6) *Final landscaping inspection happens one year later.*

140

141 These are the conditions subsequent that they would have to meet and they would not get their  
142 security back until the landscaping has survived for a full year in good health and they submit as-  
143 built plans.

144

145 Mr. Clements noted staff are also proposing a subsequent condition #7, which is staff review of  
146 the utility easement. He added the applicant did submit draft documents in time, but staff has not  
147 been able to review them, and staff felt delaying final approval for this application by a month  
148 would not be prudent. Staff are also working on easement language to the benefit of the City. By  
149 making it subsequent, it is tied to the issuance of a building permit for the first new unit for this  
150 project.

151

152 A motion was made by Andrew Madison that the Planning Board issue final approval for PB-  
153 2025-29 with the following condition subsequent: 7) Prior to the issuance of a building permit  
154 for new dwelling unit construction, the utility easement shall be reviewed to the satisfaction of  
155 the City Attorney and City Engineer and executed and recorded by the applicant. Proof of  
156 recording shall be delivered to the Community Development Department.

157

158 The motion was seconded by Joseph Cocivera and carried on a unanimous vote.

159

160 5) **PUBLIC HEARINGS**

161 **1. PB-2025-21 – Subdivision & Surface Water Protection Conditional Use Permit –**

162 Applicant Cardinal Surveying & Land Planning and applicants/owners Fernando & Marguerite  
163 Cyr propose to subdivide the ~10.6-ac lot at 315 Old Walpole Rd (TMP# 210-027-000) into a

164 ~7.9-ac lot and a ~2.7-ac lot. About 7,815 sf of impact to the surface water buffer is Page 1 of 53  
165 requested for a proposed driveway and grading for a leach field. The parcel is in the Rural  
166 district.

167  
168 A. Board Determination of Completeness  
169 Mr. Clements stated the applicant has requested exemptions from submitting a separate existing  
170 and proposed conditions plan, landscaping plan, lighting plan, elevations, traffic analysis, soils  
171 analysis, historic evaluation, architectural and visual appearance analysis, and any other technical  
172 reports. Planning Staff have made the preliminary determination that granting the requested  
173 exemptions would have no bearing on the merits of this application and recommend that the  
174 Board accept the application as “complete.”

175  
176 A motion was made by Mayor Kahn that the Planning Board accept this Application as  
177 complete. The motion was seconded by Andrew Madison and was unanimously approved.

178  
179 B. Public Hearing  
180 Ms. Wendy Pelletier from Cardinal Surveying, representing owners Fred and Marguerite Cyr,  
181 addressed the Board. She was joined by Josh Joslin of Graz Engineering.

182  
183 Ms. Pelletier stated this is a 10.6-acre parcel at 315 Old Walpole Road. There is a single-family  
184 home on the lot, and the applicant is proposing to subdivide the lot into two parcels. The site is  
185 surrounded by other single-family homes on smaller lots and she felt it was a great use of the  
186 property. The rear of the lot has prohibitive slopes, and no construction would happen in that  
187 area. The front of the lot is encumbered by a wetland. She referred to an orange line on the plan  
188 that shows the wetland buffer and stated that no building is proposed within that area. The only  
189 building area is highlighted in yellow (one half acre).

190  
191 Mr. Josh Joslin of Graz Engineering addressed the Board next and stated he completed the  
192 Conditional Use Permit for work proposed within the Surface Water Protection Overlay District.  
193 He stated there are wetlands to the south and the north, and there is an existing culvert that was  
194 recently replaced by the property owner. The driveway is proposed to come in as far to the north  
195 as possible, essentially hugging the property line, maintaining the three-foot setback requirement  
196 for the driveway off the property line and matching it back up to one of the existing paths where  
197 it crosses the culvert. It would be a 300-foot driveway and they are proposing to keep it 10-foot  
198 wide to minimize the disturbance in that area. They are also proposing to cross pitch the  
199 driveway to the south where runoff will be caught by a drainage ditch which flows towards Old  
200 Walpole Road into a stone level spreader and then into a roadside ditch. On the other side of the  
201 driveway, a curb or berm is being proposed which would capture water from the top section of  
202 the driveway, which would ultimately enter the stone level spreader. He referred to the bold lines  
203 around the driveway which is the silt fence. Replacement of the culvert needs NHDES approval  
204 and has been submitted to DES for review.

205  
206 This concluded the applicant’s presentation.

207  
208 Chair Kost asked for the distance from the wetland to the edge of the driveway. Mr. Joslin stated  
209 it is between 30 and 35 feet along the length up to the crossing point. The low point at the stone

210 level spreader would be about 45 feet from the wetlands. He added that the seeding being  
211 proposed within the 75-foot buffer is a New England buffer zone mix; a mixture of wildflowers,  
212 items that will be good for slope restoration and to enhance buffer zones.

213  
214 Chair Kost asked whether there is any difference if the driveway is paved or not. Mr. Joslin  
215 stated they treat gravel as impervious only because once it gets compacted and driven on, there is  
216 no real infiltration. However, if it is a paved driveway, the berm would be a modified Cape Cod  
217 berm. If it is gravel, it would be an embankment which would be higher and it will be loamed  
218 and seeded.

219  
220 Staff comments were next. Mr. Clements stated as the applicant described, this is an existing  
221 roughly 10-acre parcel with the proposal to subdivide approximately 2.7 acres and create a new  
222 building lot. The purpose of the conditional use permit is proof of concept that the proposed lot  
223 to be subdivided is actually feasible to build on for residential development.

224  
225 Mr. Clements began with the review of the subdivision regulations:

226  
227 Lots: The proposed lots appear to meet all dimensional requirements for the Rural District. The  
228 new lot will have 80 feet of frontage along Old Walpole Rd, which is a class V roadway. The  
229 remaining lot will have approximately 159 feet of frontage on Old Walpole Rd. It appears that  
230 this standard has been met.

231  
232 Character for the land for subdivision: The applicant has described the front half of the parent  
233 parcel as sloping between 3% and 8%, with the rear half being prohibitively steep. Wetland  
234 systems are present at the front of the parcel with the prohibitive slopes to the rear and about a  
235 half-acre of buildable land in between them. Mr. Clements noted the Board would ultimately  
236 need to decide this evening whether the Board believes that this land is appropriate to be  
237 subdivided.

238  
239 Scattered or Premature Development: The proposed lot is located on an existing City road in a  
240 developed residential area. This proposed subdivision is not premature. This standard is met.

241  
242 Preservation of Existing Features: The applicant proposes to minimize impacts to the existing  
243 wetland system by designing the driveway to cross at the narrowest point of the wetland. The  
244 prohibitive slopes are not proposed to be impacted in any way. The stone wall along the road will  
245 be altered to create the driveway entrance. With reference to the interior stonewalls, as far as this  
246 application is concerned, they are not proposed to be altered in any way. The Board will need to  
247 determine if this is sufficient for the preservation of existing features.

248  
249 Monumentation: 5/8-inch cap steel rebar is proposed to be set at each new corner and angle  
250 point. A condition of approval related to the monuments being set or submittal financial security  
251 given to ensure the monumentation is recommended and is in the suggested motion language.

252  
253 The lots are not in a special flood hazard area – this is not applicable.

254

255 Fire Protection and Water Supply: There is a fire hydrant located .8 miles from Old Walpole  
256 Road, and the site is .71 miles from a hydrant on Wyman Road. The Fire Department did not  
257 raise any concerns about serving this building lot – this standard has been met.  
258

259 Utilities: The proposed new building lot will be served by private well and septic. NHDES  
260 subdivision approval will be required for the new lot as it is less than five acres in size.  
261

262 Surface Water Protection.

263 1. Relocation of the Proposed Use and activity – Mr. Clements explained the question is whether  
264 the applicant has done everything that they can to limit the amount of proposed impact, i.e.,  
265 Could the driveway be located somewhere else that would further reduce the impact on the  
266 wetland? Mr. Clements stated after reviewing the application, staff believe the applicant has  
267 made a real effort to minimize impact to the wetland. For example, crossing the wetland at the  
268 narrowest point, keeping the proposed driveway as far away from the wetland as possible with  
269 the proposed new lot lines, while also utilizing the existing topography of the site.  
270

271 Buffer encroachment is proposed to be 7,815 square feet. The driveway is designed to meet the  
272 long driveway standards in Section 9.3.5 of the land development code. These standards include  
273 the requirement for the driveway be no wider than 10 feet; this reduces the impact to the buffer.  
274 The design includes the installation of two stone level spreaders, a drainage swale, and berm to  
275 control stormwater runoff to both the wetland and the public rights of way. The impact for the  
276 leach field is related to the grading to install the system. The leach field itself will not be located  
277 within the buffer, which is a requirement of the regulation.  
278

279 As far as adverse impacts are concerned. The applicant has shown that most of the future  
280 residential development on the property is proposed to be located outside the wetland buffer.  
281

282 Stormwater management systems are proposed with the driveway and take advantage of the  
283 existing soils on the site, which percolate well and have good infiltration.  
284

285 The amount of clearing proposed is limited to what is necessary to install the driveway and  
286 associated infrastructure.  
287

288 For preservation of the buffer, they are limiting cutting to what is necessary. They are proposing  
289 a native wetland buffer seed mix to restore impacted areas. The applicant did note that the  
290 existing condition of the buffer is minimal, low-growth vegetation.  
291

292 Additional criteria - The applicant notes that the existing wetland system is small and was  
293 created by a minor watershed that drains into already developed land. The system is not  
294 connected to a larger wetland system in any meaningful way. No potential potentially  
295 endangered species were observed, and the NHDES data check tool provided a negative response  
296 with respect to the presence of endangered species. The applicant also notes that, due to the  
297 condition of the wetland system, it is unlikely to be used as a wildlife corridor.  
298

299 Mr. Clements reviewed the proposed motion as outlined in the Board's packet.

300 Mr. Clements noted there were some discrepancies between the City Engineer and the  
301 applicant's engineer. As a result, staff is giving the applicant time to resolve some of the  
302 methodologies with the stormwater simulation and report; if it is deemed to need to be altered.  
303 This is not an uncommon occurrence.

304  
305 Mr. Clements referred to the following language proposed in the motion:  
306 *Subsequent to final approval, the following conditions shall be met: prior to the issuance of a*  
307 *building permit for new residential construction, a plan showing the proposed building envelope.*  
308 *Driveway grading and erosion control measures shall be submitted to the Community*  
309 *Development Department for review by the city engineer.*

310  
311 He explained this language is the conditional use permit effectively in action. The applicant this  
312 evening is providing proof of concept that this lot is buildable. The future end user may be  
313 interested in potentially changing the driveway layout and/or relocating where the house is going  
314 to be located, which could trigger a new requirement to either amend the surface water  
315 conditional use permit, or some other mechanism that we really can't anticipate at this moment.  
316 If something different to what is being proposed is presented, that new applicant will be required  
317 to come before this Board. This concluded staff comments.

318  
319 Mayor Kahn clarified in the remaining seven acres there is currently a house. Mr. Clements  
320 answered in the affirmative and added there is an existing single-family residence and a couple  
321 of outbuildings located northwesterly off Old Walpole Road – away from the wetland system.  
322 The Mayor asked for the length of the driveway. Mr. Clements stated it is 300 feet.

323  
324 Mr. Clements went on to say this item went before the Conservation Commission who conducted  
325 a site visit and are proposing a few recommendations, ultimately, it would be the Board's  
326 decision as to whether to include these recommendations into the final approval. The three  
327 recommendations are: 1. Utilization of Road Salt Best Management Practices on the driveway to  
328 reduce the amount of salt contamination into the wetland; 2. Invasive species management  
329 during construction; 3. Monitoring the silt dam weekly with repairs as needed by the developer.

330  
331 Mr. Clements reminded the Board this is going to be a single-family residential building lot and  
332 the City is limited in the amount of enforcement of very specific conditions for a development at  
333 this scale. The Conservation Commission noting best management practices for both erosion  
334 control and salt usage into the record for this application is productive. However, he felt invasive  
335 species management would be harder but felt it is good advice for any builder to be aware of any  
336 invasive species within their working area and any opportunity to address that issue during  
337 construction certainly will be appreciated by the city.

338  
339 Ms. Brunner stated she was present at the Conservation Commission's discussion and noted most  
340 of these recommendations are suggestions for the owner. The Commission did have concerns  
341 about any fill that is being brought onto the property as it is getting more and more difficult to  
342 make sure that fill is clean and won't have invasive species growing in it. They are trying to raise  
343 awareness about that issue because the spread of things like Japanese Knotweed and Burning  
344 Bush are becoming a problem around the City. These concerns were shared with the State as  
345 well to be submitted with the wetlands permit application.

346 Chair Kost referred to what Mr. Clements stated earlier; if this site was to be changed  
347 significantly, it comes back through the Planning Board process. He indicated the house depicted  
348 looks like a square on the proposed plan and asked if this was to change whether that too could  
349 be something that would come before this Board. Mr. Clements stated as long as the house is not  
350 proposed to be built in the wetland buffer, it does not necessarily need to come back.

351  
352 The Chair asked for public comment, with no comments from the public the Chair closed the  
353 public hearing.

354  
355 The Chair stated he does not see that there is any potential for regional impact.

356  
357 C. Board Discussion and Action  
358 A motion was made by Andrew Madison that the Planning Board approve PB-2025-21 as shown  
359 on the plan set prepared by Cardinal Surveying & Land Planning at a scale of 1"=50' on  
360 September 17, 2025 and last revised on April 14, 2026 and on the plan set prepared by Graz  
361 Engineering with a variable scale on March 22, 2026 with the following conditions:

362 1. Prior to the final approval and signature of the plans by the Planning Board Chair, the  
363 following conditions precedent shall be met:

- 364 a. Owners' signatures appear on the plans.
- 365 b. The wetland scientist stamp shall be put on the subdivision plans.
- 366 c. Submittal of four (4) full sized paper copies, 2 mylar copies, and a flattened PDF version of  
367 the final plan set.
- 368 d. Submittal of a check in the amount of \$51.00 made out to the City of Keene to cover the cost  
369 of recording fees.
- 370 e. Inspection of lot monuments by the Public Works Director, or in lieu of this, the submittal of  
371 a security in a form and amount acceptable to the Public Works Director to cover the cost of  
372 monumentation.
- 373 f. Submittal of documentation demonstrating that subdivision approval has been granted by the  
374 New Hampshire Department of Environmental Services.

375 g. A revised stormwater management report to be reviewed and approved by the City Engineer.  
376 2. Subsequent to final approval and signature of the plans by the Planning Board Chair, the  
377 following conditions shall be met:

- 378 a. Prior to the issuance of a building permit for new residential construction, a plan showing the  
379 proposed building envelope, driveway, grading, and erosion control measures shall be submitted  
380 to the Community Development Department for review by the City Engineer.
- 381 b. Prior to the commencement of site work, the Community Development Department shall be  
382 notified when all erosion control measures have been installed and the 75-ft surface water buffer  
383 is flagged by a surveyor licensed in the State of NH. Community Development Staff shall inspect  
384 the erosion control measures and wetland flagging to ensure compliance with the approved plans  
385 and all City of Keene regulations."
- 386 c. Submittal of an approved wetland permit from the New Hampshire Department of  
387 Environmental Services to the Community Development Department.

388  
389 The motion was seconded by Joseph Cocivera and was unanimously approved.

390  
391 7) OTHER BUSINESS

392 None

393

394 8) **STAFF UPDATES**

395

396 1. **Bicycle and Pedestrian Master Plan Update**

397 Ms. Brunner stated the City has started an update to the Bicycle and Pedestrian Master Plan. She  
398 stated the City was an early adopter of bicycle pedestrian plans. The first one was adopted in  
399 1999 and was added as an appendix to the last master plan and indicated this is an update that is  
400 long overdue. The project started around Earth Day and there is a survey out right now for  
401 anyone interested. If the plan does get adopted by City Council, it will come back to the Board to  
402 be added as an appendix to the master plan. She stated there is information about this item in the  
403 Board's packet. There is also information available on the Bicycle Pedestrian Path Advisory  
404 Committee page.

405

406 9) **UPCOMING DATES OF INTEREST**

407 Joint Committee of the Planning Board and PLD – May 11, 6:30 PM

408 Planning Board Steering Committee – May 12, 12:00 PM

409 Planning Board Site Visit – May 20 – To Be Confirmed

410 Planning Board Meeting – May 26, 6:30 PM

411

412 10) **MORE TIME ITEMS**

413 1. **Training on Site Development Standards**

414 The Chair suggested completing some of the proposed training. The Mayor felt the Board is not  
415 well represented tonight to complete a training. The Chair felt the sessions are recorded for  
416 members who are not present tonight. Mr. Madison stated after next meeting, it might be easier  
417 to get these trainings completed.

418

419 Ms. Brunner stated there are training videos available on the City's You Tube channel.

420

421 11) **ADJOURNMENT**

422

423 There being no further business, Chair Kost adjourned the meeting at 7:45 PM.

424

425 Respectfully submitted by,

426 Krishni Pahl, Minute Taker

427

428 Reviewed and edited by,

429 Mari Brunner, Senior Planner



# CITY OF KEENE NEW HAMPSHIRE

ITEM #D.1.

**Meeting Date:** May 26, 2026  
**To:** Planning Board  
**From:** Mari Brunner, Senior Planner  
**Through:** Paul Andrus, Community Development Director  
**Subject:** **Applications Ready for Final Approval**

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**Recommendation:**

To grant final approval for any projects that have met all their “conditions precedent to final approval.”

**Attachments:**

None

**Background:**

This is a standing agenda item in response to the “George Stergiou v. City of Dover” opinion issued by the NH Supreme Court on July 21, 2022. As a matter of practice, the Planning Board issues a final vote on all conditionally approved projects after the “conditions precedent to final approval” have been met. This final vote will be the final approval and will start the 30-day appeal clock.

**As of the date of this packet, no applications were ready for final approval.**

If any projects meet their conditions precedent between date of this packet and the meeting, they will be identified and discussed during this agenda item.

All Planning Board actions, including final approvals, are posted on the City of Keene website the day after the meeting at [KeeneNH.gov/planning-board](https://www.keeneNH.gov/planning-board).



# CITY OF KEENE NEW HAMPSHIRE

ITEM #G.1.

**Meeting Date:** May 26, 2026

**To:** Planning Board

**From:** Megan Fortson, Planner

**Through:** Mari Brunner, Senior Planner

**Subject:** **PB-26-10 - Habitat for Humanity Duplex, Cottage Court Conditional Use Permit** — Applicant SVE Associates, on behalf of owner Monadnock Habitat for Humanity, proposes to construct a 1,364 sq-ft duplex at the property located at 0 Grove St. (TMP# 585-057-000). The parcel is ~.11 ac and is located in the Residential Preservation District.

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**Recommendation:**

To review the attached staff report and application materials in preparation for the public hearing.

**Attachments:**

1. Staff Report
2. Application
3. Narrative
4. Plan Set
5. Average Building Setback Line Exhibit
6. Elevations

**Background:**

The ~0.11-ac subject parcel is located at the southwest corner of the Grove St and Water St intersection. Historically, this parcel was used as a parking lot for the former Lancaster Shoe Company, which was located across Water Street at the site of the current Cityside housing development. The site is almost entirely paved and has been vacant / unused since the 1980s. The applicant proposes to construct a duplex with an interior gross floor area of ~1,152-sf per unit. Per Table 17-1 in the Land Development Code (LDC), a duplex is allowed in the Residential Preservation District subject to the issuance of a Cottage Court Conditional Use Permit by the Planning Board.

# STAFF REPORT

## PB-26-10 – COTTAGE COURT CONDITIONAL USE PERMIT – HABITAT FOR HUMANITY, GROVE ST

### **Request:**

Applicant and owner, Monadnock Habitat for Humanity, proposes to construct an ~1,364-sf duplex on the ~0.11-acre lot at 0 Grove St (TMP #585-057-000). The property is located in the Residential Preservation District.

### **Background:**

The ~0.11-ac subject parcel is located at the southwest corner of the Grove St and Water St intersection (Figure 1). Adjacent uses include the Cityside apartment building to the north; the Hundred Nights Shelter to the northeast; duplexes to the east; and multi-family units to the south and west. Historically, this parcel was used as a parking lot for the former Lancaster Shoe Company, which was located across Water Street at the site of the current Cityside housing development. The site is almost entirely paved and has been vacant / unused since the 1980s.

The applicant proposes to construct a duplex with an interior gross floor area of ~1,152-sf per unit. Each unit will be accessed by a separate curb cut and a covered entryway. A shed will be added to the southwestern corner of the site to serve as garden storage for tenants as well as a mechanical room. Per Table 17-1 in the Land Development Code (LDC), a duplex is allowed in the Residential Preservation District subject to the issuance of a Cottage Court Conditional Use Permit by the Planning Board.



*Figure 1. Aerial imagery from 2025 showing the subject parcel at 0 Grove St (TMP #585-057-000).*

### **Determination of Regional Impact:**

Staff have made a preliminary evaluation that the proposal does not appear to have the potential for “regional impact” as defined in RSA 36:55. The Board should make a final determination as to whether the proposal could have the potential for regional impact.

### **Completeness:**

The applicant has requested exemptions from submitting a drainage report, traffic analysis, and soil analysis. Planning Staff have made the preliminary determination that granting the requested exemptions would have no bearing on the merits of the application and recommend that the Board accept the application as “complete.”

### **Departmental Comments:**

- **Zoning:** Project as proposed requires a Variance from the rear setback requirement of the Residential Preservation Zoning District per Section 3.2.2 of the LDC. This project is

# STAFF REPORT

scheduled to be heard by the ZBA on May 11, 2026 as ZBA-26-3. If approved, the ZBA Variance should be noted on the site plan. *(Please note that this variance was granted.)*

- **Engineering:**

- The plans show the proposed water service curb stop on private property in profile view; this must be revised to show the curb stop in the Grove Street ROW.
- In lieu of the pavement patch / saw cut extending diagonally west to east from the limit of the water service installation, please square off the road trench patch for a consistent width
- Specify a cast iron cleanout box and cap for the proposed sewer service cleanout.
- Prior to construction, the developer shall submit for and obtain an Excavation Permit and Utility Connection permit.
- Upon the installation of the building's foundation, the owner shall submit a request to the City Engineer for a street address to be assigned and registered in accordance with E-911 standards.
- Prior to the issuance of a CO, the developer and/or property owner shall submit a request to the City Engineer for a water meter and backflow preventor installation and operation of the water service curb stop to turn on the water.

## APPLICATION ANALYSIS:

### ARTICLE 17 – COTTAGE COURT CONDITIONAL USE PERMIT CRITERIA:

**17.4 Permitted Uses:** The proposed duplex is allowed in the Residential Preservation District with a Cottage Court Conditional Use Permit. An accessory shed is proposed in the southwest corner of the site to house mechanical equipment and provide storage areas for tenants (Figure 2). This standard appears to be met.

**17.5.1 Development Types Allowed:** The duplex will be constructed on a single parcel of land with a condominium association serving as the property management entity. Planning Staff recommend that the Board include conditions of approval related to the submittal of draft and recorded condominium documents as well as any other legal instruments necessary for this project. This standard appears to be met.

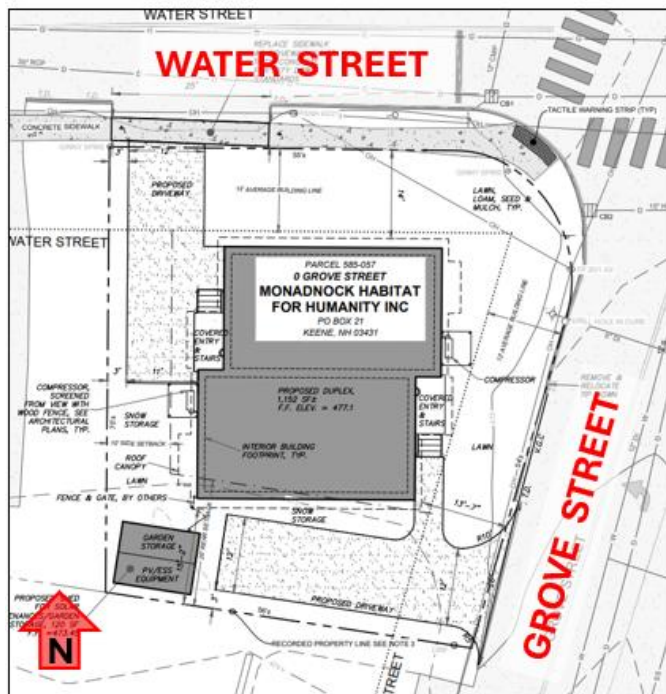


Figure 2. A snippet of the proposed conditions plan showing the proposed layout of the duplex at Grove St.

# STAFF REPORT

**17.5.2 Dimensional Standards:** The applicant proposes to construct a 2-story duplex on a corner lot with frontage on Water St and Grove St. The proposed front setback is just over 13-ft and the corner side setback is just over 12-ft. Although this does not comply with the 15-ft front setback and the 20-ft corner side setback required in the Residential Preservation District, Table 17-2 in the LDC allows Cottage Court Developments additional flexibility with setbacks from external roads, stating that, “Setbacks from existing roads external to the development may be less than the underlying zoning district in order to match an established building line along the road.” The applicant submitted an exhibit showing the average building setback distances along both Water St and Grove St which shows that, based on the existing development pattern in the neighborhood, the front setback could be reduced to ~13-ft and the corner side setback could be reduced to ~12-ft.

The applicant obtained a variance for a 15-ft rear building setback from the ZBA on May 11. The building setback line exhibit and ZBA Notice of Decision are included as attachments to this staff report. This standard appears to be met.

*Table 2: Required vs. proposed dimensional standards.*

	<b>Required</b>	<b>Existing</b>	<b>Proposed</b>
<b>Minimum tract size</b>	None	~0.11-ac (~4,959-sf)	~0.11-ac (~4,959-sf)
<b>Minimum tract frontage</b>	30-ft	58.41-sf	58.41-ft
<b>Front Setback</b>	15-ft (or existing building line)	N/A	~13-ft*
<b>Rear Setback</b>	20-ft	N/A	15-ft**
<b>Side Setback</b>	20-ft	N/A	10-ft*
<b>Max Building Coverage</b>	35%	0%	32%
<b>Max Impervious Coverage</b>	45%	95%	60%
<b>Max Stories Above Grade</b>	2	N/A	2
<b>Max Building Height</b>	35-ft	N/A	~35-ft

\* Setbacks reduced to match existing building lines per Table 17-2

\*\* Variance for 15-ft rear setback granted on May 11, 2026

**17.5.3 Conditional Use Permit Standards:**

- A. **Dwelling Unit Size:** This section of the LDC requires that all new units created as part of a Cottage Court Development have an average gross floor area less than 1,250-sf per unit and a building footprint less than 900-sf per unit. The applicant proposes to construct a duplex with an interior average gross floor area of ~1,152-sf per unit and an interior building footprint of ~576-sf per unit. This standard appears to be met.
- B. **Parking:** This section requires a minimum of one parking spaces per unit and allows for a maximum of one parking spaces per bedroom. The proposed conditions plan shows that each of the proposed curb cuts will be able to accommodate 1-2 parked vehicles. This standard appears to be met.
- C. **Building Separation:** The internal separation between units will be reviewed by the Plans Examiner as part of the building permit application process to ensure that all necessary building code and life-safety requirements are satisfied.
- D. **Driveways:** The applicant proposes two curb cuts – one along Water St and one along Grove St. The curb cut along Water St will be ~12'-wide at the property line and 38'-deep. The second curb cut along Grove St will be ~26'-wide at the curb line, 19'-wide

## STAFF REPORT

at the property line, and ~41'-deep. Each of these driveways complies with the requirements for single- and two-families homes outlined under the Street Access Permit standards in Section 23.5.4 of the LDC.

- E. **Screening:** The project narrative states that the proposed 2-story duplex is not more intense than adjacent building types, so no screening is proposed. Google Street View imagery shows that adjacent buildings are two or more stories in height. This standard appears to be met.
- F. **Architectural Guidelines:** The submitted elevations show that the proposed duplex will have one unit with access from the west side of the site and the second unit will have access from the east side of the property facing Grove St. During conversations with staff, the applicant's team stated that this layout was chosen to provide privacy to each of the families residing in the building.

Sheet A200 of the elevations shows three different potential exterior color schemes, all of which are finished with horizontal siding on the first and second floors and vertical siding from the top of the second floor to the peak of the gable roof. During the deliberation of this application, the Board will need to determine if the proposed architecture and visual appearance of the building is harmonious with the fabric of the existing neighborhood. Figure 3 shows the proposed elevations for the two different designs of the building facades.



*Figure 3. A snippet from the proposed elevations showing the front entry for each unit as well as a side view of the building.*

### **ARTICLE 21 – SITE DEVELOPMENT STANDARDS:**

- 21.2 **Drainage:** Impervious cover on the site will be reduced from about 95% to 60%. Currently, stormwater runoff sheet flows to catchbasins along Water St & Grove St. Following the redevelopment of the site, stormwater will either infiltrate into the lawn spaces or sheet flow to the existing catch basins. This standard appears to be met.
- 21.3 **Sediment & Erosion Control:** During construction, the contractor will install catch basin grate inlet filters and straw wattle or silt fencing around the perimeter of the parcel. This standard appears to be met.

## STAFF REPORT

- 21.4 Snow Storage & Removal:** Snow storage areas are proposed to the south and west of the building. The narrative states that excess snow will be removed from the site, if necessary. This standard appears to be met.
- 21.5 Landscaping:** No landscaping is proposed to be installed, with the exception of lawn areas, which will be seeded to grow grass. This standard is not applicable.
- 21.6 Screening:** A compressor will be installed adjacent to the entry stairs for each unit and will be screened from view of adjacent properties and the public right-of-way using wooden fencing, as shown on the proposed elevations. This standard appears to be met.
- 21.7 Lighting:** Wall-mounted light fixtures are proposed at the entry to each unit. Given that this will be a two-family residence, the proposed light fixtures do not need to comply with the requirements outlined under this section of the LDC. This standard is not applicable.
- 21.8 Sewer & Water:** Each unit in the duplex will have 3 bedrooms and will be connected to City water and sewer services. During the review of this application, the City Engineer include a few comments regarding the proposed utilities. At the time of this staff report, Planning Staff were waiting to hear back from the City Engineer regarding whether the updated plan set sufficiently addresses these comments. An update will be shared with the Board during the public hearing for this application on Tuesday, May 26<sup>th</sup>.
- 21.9 Traffic & Access Management:** The narrative states that the proposed duplex will not cause a significant increase in vehicle traffic to and from the site. A note has been added to the plan set which states that any future modifications to the driveways shall be reviewed by the City Engineer. This standard appears to be met.
- 21.10 Filling & Excavation:** The narrative states that the existing grade of the site currently lies between 472-473-ft above sea level and is proposed to be slightly raised to 473.35-ft above sea level at its highest point following the completion of construction. The remainder of the site around the duplex will be graded to match existing elevations. This standard appears to be met,
- 21.11 Surface Waters & Wetlands:** The narrative states that there are no surface water or wetlands present on the site. This standard is not applicable.
- 21.12 Hazardous & Toxic Materials:** The narrative states that there are no hazardous or toxic chemicals involved with this proposal. This standard is not applicable.
- 21.13 Noise:** The narrative states that the proposed use will generate noise levels typical for a residential use. This standard appears to be met.
- 21.14 Architecture & Visual Appearance:** See item F under Section 17.5.3, above.

## STAFF REPORT

### **Draft Motion Language:**

If the Board is inclined to approve this request, the following language is recommended for a motion:

**“Approve PB-26-10 as shown on the plan set identified as “Proposed Duplex; 0 Grove, St Keene, NH” prepared by SVE Associates at a scale of 1 inch = 10 feet on May 31, 2026 and last revised on May 4, 2026, and in the elevations identified as “Monadnock Habitat for Humanity; 0 Grove St, Keene, NH” prepared by Bensonwood Unity Homes at varying scales on March 23, 2026 and last revised on May 6, 2026 with the following conditions:**

- 1. Prior to the final approval and signature of the plans by the Planning Board Chair, the following conditions precedent shall be met:**
  - a. Owner’s signature appears on the plans.**
  - b. Submittal of five (5) full sized paper copies and a flattened PDF version of the final plan set and elevations.**
  - c. Submittal of an updated proposed conditions plan with the ZBA approval number listed.**
  - d. Submittal of draft written documentation of any easements and/or other necessary legal instruments required for this application, which shall be subject to review by the City Attorney.**
- 2. Subsequent to final approval and signature of the plans by the Planning Board Chair, the submittal of recorded easements and/or any other legal instruments necessary for this application to the Community Development Department.”**



**CITY OF KEENE**  
NEW HAMPSHIRE

# Planning Application

<b>Project Number:</b>	PB-26-10	<b>Date Submitted:</b>	April 15, 2026
<b>Project Name:</b>	Habitat for Humanity Duplex	<b>Zoning:</b>	RP
<b>Project Address:</b>	0 GROVE ST.	<b>Parcel Size:</b>	0
<b>Parcel Number:</b>	585057000000000		

**Owner Information**

MONADNOCK HABITAT FOR HUMANITY INC <i>Name</i>	PO BOX 21 <i>Address</i>	KEENE NH 03431 <i>City/State/Zip</i>
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**Applicant Name**

Liza Sargent

**Applicant Phone #**

802-257-0561 ext. 202

**Authorized Agent Name**

Liza Sargent

**Authorized Agent Phone #**

8022570561

**Project Description**

SVE Associates, on behalf of the applicant, Monadnock Habitat for Humanity, is submitting this Cottage Court Conditional User Permit Application to construct a duplex at 0 Grove Street. The project consists of the construction of a 1,364 square foot duplex, off street parking for both units, water and sewer connections, and shared shed.

**Attachments**

***Narrative & Plan Set***

Narrative	Submitted
Location Map	Submitted
Existing Conditions Plan	
Proposed Conditions Plan	
Grading Plan	
Landscaping Plan	
Lighting Plan	
Elevations / Renderings	Submitted

***Technical Reports***

Drainage Report	Exemption Requested
Traffic Report / Analysis	Exemption Requested
Soil Analysis	Exemption Requested
Historic Evaluation	
Screening Analysis	
Architectural Analysis	
Other Reports / Analyses	N/A



## Project Narrative

### Monadnock Habitat for Humanity Duplex

#### 0 Grove Street

#### Owner/Applicant: Monadnock Habitat for Humanity

April 2, 2026

*Revised May 4, 2026*

SVE Associates, on behalf of the applicant, Monadnock Habitat for Humanity, is submitting this *revised* Cottage Court Conditional Use Permit Application to construct a duplex at 0 Grove Street. The project consists of the construction of a 1,378 square foot *exterior area/ 1,152 sf interior area* duplex, *two spaces of off-street parking for both units, water and sewer connections, and shared shed. The footprint for the interior of each unit, per floor is 576 sf.*

The proposed plan complies with all City Development Standards:

1. Drainage & Stormwater Management:

There will be a decrease in impervious surface area. The existing site is a paved parking lot, with 95% of the parcel impervious. Proposed will be a duplex with lawn space, with 60% of the parcel impervious. In existing conditions, stormwater runoff sheet flows to the catch basins in Water and Grove Streets. Post Development, stormwater will have an opportunity to infiltrate into the lawn spaces before sheet flowing to the existing catch basins in the street.

2. Sediment/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 the Sheet N-1 and details on Sheet C-3. Catch basin grate inlet filters shall be used in the catch basins. Straw wattle or silt fence shall be used at the perimeter of the parcel.

3. Snow Storage and Removal:

Snow storage is proposed on site, if snowfall exceeds available snow storage, snow will be trucked offsite.

**SVE Associates**

# SVE Associates

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Engineering

• Planning

• Surveying

4. Landscaping:

No landscaping is proposed, except for lawn.

5. Screening:

Screening is proposed for each of the unit's compressors.

6. Lighting:

The only lighting proposed are the wall mounted fixtures at each duplex covered entry.

7. Sewer and Water:

The duplex with 3 bedrooms in each unit, will connect to the municipal water and sewer. Sewer service is a 6" diameter SDR35 and domestic water is a 1½" diameter CTS service.

8. Traffic and Access Management:

No significant increase to vehicle traffic. The existing site was a paved parking area with entrances on both Water and Grove Street.

9. Filling and Excavation:

The existing elevation of the site is generally between 473 and 472. Proposed grading will raise the site to 473.35 at the highest point (with the exception of the finish floor of the duplex) and will be graded to match existing grades at all sides of the parcel.

10. Surface Waters and Wetlands:

There is no surface water or wetlands on this property.

11. Hazardous and Toxic Materials:

Not applicable.

12. Noise:

The proposed use will generate noise typical to a residential residence.

13. Architecture and Visual Appearance:

The new duplex's style and visual appearance compliments the surrounding residential units. See elevations for more detail.

## SVE Associates

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Engineering

• Planning

• Surveying

439 West River Road, P.O. Box 1818, Brattleboro, VT 05302

Phone: (802) 257-0561

# SVE Associates

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Engineering

•

Planning

•

Surveying

## Cottage Court Development Standards

1. *The proposed use is a duplex which is a permitted use in the district.*
2. *The project is proposed on a single parcel of land with a Condominium Association.*
3. *Condominium Association will comply with all applicable state statutes regulating the condominium form of ownership.*
4. *The CC Development will meet the minimum dimensional standards in Table 17-2.*
5. *The building height is less than 35 feet.*
6. *The dwelling size is 1,152 sf, and the building footprint per unit is 576 sf.*
7. *There are two parking spaces proposed per unit.*
8. *Driveways are 12' wide.*
9. *No internal roads proposed.*
10. *The proposed building type is not more intense than the adjacent building types, therefore no screening fence is proposed.*

## SVE Associates

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Engineering

•

Planning

•

Surveying

439 West River Road, P.O. Box 1818, Brattleboro, VT 05302

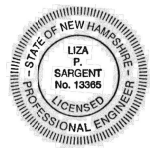
Phone: (802) 257-0561

# PROPOSED DUPLEX

0 GROVE STREET, KEENE NEW HAMPSHIRE

PROPERTY OWNER & APPLICANT:  
**MONADNOCK HABITAT FOR HUMANITY, INC.**

P.O. BOX 21  
KEENE, NEW HAMPSHIRE 03431

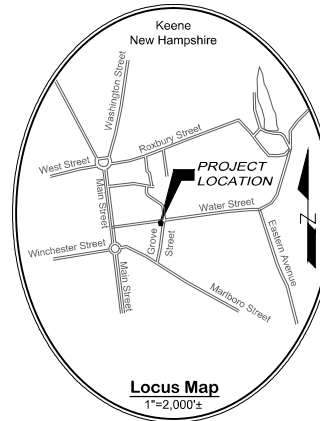


*Liza Sargent* 5/8/26  
LIZA P. SARGENT DATE  
R.C.E. NUMBER: 13365

## INDEX OF PLANS

- N-1 NOTES & LEGEND
- RIGHT OF WAY AMENDMENT PLAN
- S-1 EXISTING CONDITIONS
- C-1 SITE PLAN
- C-2 GRADING & UTILITIES PLAN
- C-3 CONSTRUCTION DETAILS

APPROVED BY THE OWNER OR APPLICANT _____ DATE _____
APPROVED BY THE KEENE PLANNING BOARD ON _____ CERTIFIED BY CHAIRMAN _____



SVE PROJECT #: K2813  
PREPARED BY

**Architect:**  
**Unity Homes**  
6 Blackjack Crossing  
Walpole, NH 03608  
PHONE (603) 756-3600

**Civil Engineer:**  
**SVE Associates**  
439 West River Road  
P.O. Box 1818  
Brattleboro, VT 05302  
PHONE (802) 257-0561

**Land Surveyor:**  
**David A. Mann Survey**  
40 Gulf Road  
Chesterfield, NH 03443  
PHONE (603) 903-7259

March 31, 2026  
revised thru May 4, 2026

### GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CALL DIG-SAFE, AT 1-888-344-7233 AT LEAST 72 HOURS BEFORE THE START OF EXCAVATION.
2. THE CONTRACTOR IS EXPECTED TO BE AWARE OF AND COMPLY WITH ALL PERMITS AND PERMIT CONDITIONS.
3. ALL TRENCHING, EXCAVATION, SHEETING, SHORING, ETC. SHALL COMPLY WITH THE MOST CURRENT OSHA REGULATIONS.
4. 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.
5. 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.
6. 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.
8. 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.
9. THE OWNER WILL PROVIDE BENCH MARKS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL OTHER LAYOUT AND FOR REPLACEMENT OF LAYOUT COMPLETED BY THE OWNER.
10. CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS TO THE OWNER WITH SWING TIES OR COORDINATES, LOCATING ALL VALVES, FITTINGS, CORPORATIONS, STRUCTURES, PIPES, ETC. THE AS-BUILTS SHALL INDICATE MATERIALS, PIPE LENGTHS INSTALLED, ALL INVERTS, AND ALL STRUCTURE ELEVATIONS. ACCEPTANCE OF THE WORK IS SUBJECT TO ACCEPTANCE OF THE AS-BUILTS BY THE ENGINEER AND OWNER.
11. MONUMENTATION THAT HAS BEEN DISTURBED SHALL BE RESET BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR AT NO COST TO THE OWNER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DE-WATERING AT NO ADDITIONAL COST TO THE OWNER.
13. ALL CASTINGS AND VALVE BOXES SHALL BE SET FLUSH IN PAVEMENT AND WALKS, UP 0.1 FEET IN VEGETATED SURFACES.
14. ALL SURFACES SHALL BE GRADED TO DRAIN.
15. 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.
16. ALL CURB SHALL BE SET SO THAT ENDS ABUT OR ARE TIPPED DOWN, 6" MINIMUM LENGTH, FLUSH WITH PAVEMENT.
17. UNLESS OTHERWISE NOTED, ALL CURB RADII TO BE FACE OF CURB.

### SEDIMENT AND EROSION CONTROL

1. 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.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION CONTROL. THEY 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.
3. 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 SOILS ARE WELL STABILIZED.
4. SEED, FERTILIZE & MULCH ALL FINISH GRADED AREAS WITHIN 72 HOURS OF FINISH GRADING.
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. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE SEDIMENT AND EROSION CONTROLS AS REQUESTED BY THE ENGINEER.

### WINTER CONSTRUCTION REQUIREMENTS:

1. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND 1) INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, OR 2) PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING. THE INSTALLATION OF EROSION CONTROL BLANKETS AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF SPRING THAW OR SPRING MELT EVENTS.
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER OCTOBER 15th, INCOMPLETE ROAD OR PARKING SURFACES WHERE WORK HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL MEETING NHDOT ITEM 304.3 SPECIFICATIONS.

### 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.
3. SEEDING OF ALL DISTURBED AREAS SHALL BE COMPLETED NOT LATER THAN OCTOBER 15TH.
4. SEEDING OF ALL FINISHED AREAS SHALL BE COMPLETED NOT MORE THAN 72 HOURS AFTER FINISH GRADING.
5. STABILIZATION OF ALL WORK AREAS SHALL BE COMPLETED NOT MORE THAN 45 DAYS FOLLOWING THE START OF WORK.
6. BROOM, WASH AND APPLY TACK COAT TO BASE PAVEMENT PRIOR TO WEAR COURSE PLACEMENT.
7. ALL NEW EXTERIOR LIGHTS SHALL BE SHIELDED TO PROTECT AGAINST ADDED LIGHT POLLUTION.

### 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 & SILT SACKS IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS, IN LOCATIONS DETAILED ON THIS PLAN OR AS ORDERED BY THE ENGINEER.
2. CLEAR & GRUB BUILDING/DRIVEWAYS. CONSTRUCT RESIDENCE & DRIVEWAYS.
3. LOAM AND SEED DISTURBED AREAS.
4. REMOVE SILT FENCE AFTER ALL UPHILL SOILS ARE STABILIZED.

### STABILIZATION DEFINITION:

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

1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
3. 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 ROUTE SHALL CONNECT A.D.A. ACCESSIBLE BUILDINGS, ACCESSIBLE ELEMENTS AND FACILITIES (MAILBOXES, TRASH 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 NOT EXCEED 1:20 (5%).
8. CURB RAMP FLARES SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
9. MAXIMUM GROSS-SLOPE ALONG ANY PORTION OF THE ACCESSIBLE ROUTE SHALL NOT EXCEED 1:50 (2%).
10. 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.
13. MAXIMUM SLOPE OF ANY RAMP SHALL BE 1:12 (8.33%).
14. 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.
15. RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP. LANDINGS SHALL BE AS WIDE AS THE RAMP AND AT LEAST 60 IN. LONG.
16. OUTDOOR RAMPS AND THEIR 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.

### SITE DATA TABLE:

<b>TAX MAP #:</b>	585-057, 4,959 SQ. FT. ± 0.11 ACRES		
<b>ZONE:</b>	RESIDENTIAL PRESERVATION (RP) COTTAGE COURT OVERLAY (CCO)		
<b>LOT SIZE:</b>	<b>AVAILABLE:</b> 4,959± SF	<b>(RP) REQUIRED:</b> 8,000± SF	<b>(CCO) REQUIRED:</b> NONE
<b>FRONTAGE:</b>	58.41 FEET	50 FEET	30 FEET
<b>LOT WIDTH:</b>	60.18 FEET	60 FEET	NONE
<b>BLDG. HEIGHT:</b>	<b>ALLOWED:</b> 35 FEET	<b>PROPOSED:</b> LESS THAN 35 FEET	
<b>BUILDING SETBACKS:</b>	FRONT: 15' REAR: 20' SIDES: 10' *20' SIDE SETBACK ADJACENT TO THE STREET FOR A CORNER LOT(RP), BUT MATCHING ESTABLISHED BUILDING LINE IN CCO FROM EXTERNAL ROADS		
<b>LOT COVERAGE:</b>	<b>MAXIMUM:</b> 35% (1,735 S.F./ 0.04 AC)	<b>EXISTING:</b> 0% (0 S.F./0.00 AC)	<b>PROPOSED:</b> 32% (1,604 S.F./ 0.04 AC)
<b>BUILDINGS:</b>	45% (2,232 S.F./ 0.05 AC)	95% (4,690 S.F./ 0.11 AC)	60% (2,953 S.F./ 0.07 AC)
<b>TOTAL IMPERMEABLE:</b>			
<b>FLOOD ELEVATION:</b>	100 YEAR FLOOD ELEVATION: <u>475.0'</u>		

### PERMITS REQUIRED:

1. CITY OF KEENE, ZONING BOARD OF ADJUSTMENT VARIANCE
2. CITY OF KEENE, CONDITIONAL USE PERMIT-COTTAGE COURT
3. CITY OF KEENE, EXCAVATION PERMIT.
4. CITY OF KEENE, UTILITY CONNECTION PERMIT.

### DESIGN FLOW:

DUPLEX WITH 3 BEDROOMS EACH UNIT

### PROPERTY OWNER & APPLICANT:

MONADNOCK HABITAT FOR HUMANITY INC.  
P.O. BOX 21  
KEENE, NH 03431

### SEED SPECIFICATIONS

**TEMPORARY SEED**

PERENNIAL RYE GRASS

**PERMANENT SEED:**

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

CREeping RED FESCUE	40 LB/AC
PERENNIAL RYEGRASS	50 LB/AC
KENTUCKY BLUEGRASS	25 LB/AC
RED TOP	5 LB/AC

TOTAL: 120 LB/AC

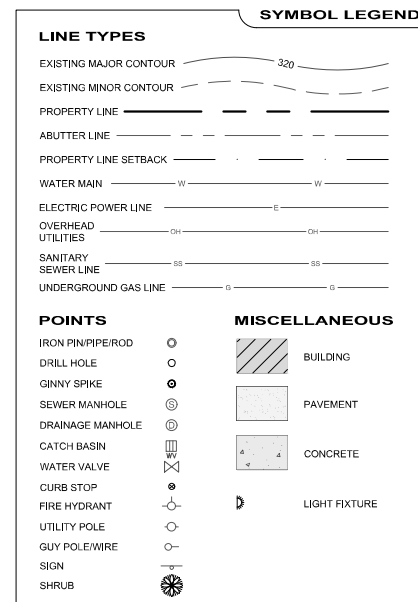
**ALL SLOPES 5:1 OR STEEPER:** SLOPE SEED NHDOT TYPE 45  
(OR OTHER WILDFLOWER MIX APPROVED BY ENGINEER)

CREeping RED FESCUE	35 LB/AC
PERENNIAL RYEGRASS	30 LB/AC
RED TOP	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	3 LB/AC

TOTAL: 95 LB/AC

### DUST CONTROL:

- DUST CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION.
1. PHASE CONSTRUCTION AND SEQUENCE EARTH DISTURBANCE ACTIVITIES TO REDUCE THE AREA OF LAND DISTURBED AT ANY ONE TIME.
  2. MAINTAIN AS MUCH NATURAL VEGETATION AS IS PRACTICABLE.
  3. USE TRAFFIC CONTROL TO RESTRICT TRAFFIC TO PREDETERMINED ROUTES.
  4. USE TEMPORARY MULCHING, PERMANENT MULCHING, TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER TO REDUCE THE NEED FOR DUST CONTROL.
  5. APPLY WATER, OR OTHER DUST INHIBITING AGENTS OR TACKIFIERS, AS APPROVED BY THE NHDES.



*Liza Sargent* 5/8/26  
LIZA P. SARGENT DATE  
R.C.E. NUMBER: 13365

NO.	DATE	REVISION	CHK	LPS
1	04-MAY-26	REVISED PER CITY STAFF COMMENTS		

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Surveying

SVE Associates  
P.O. Box 1818  
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Brattleboro, VT 05302  
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**NOTES AND LEGEND**

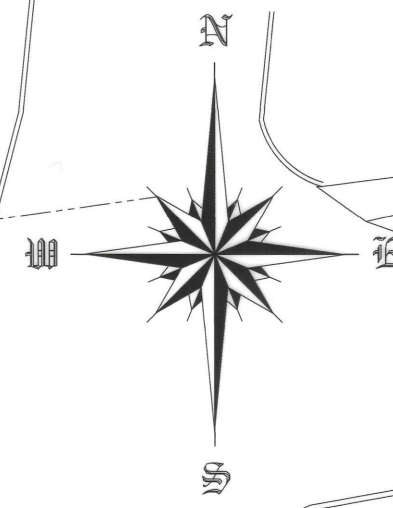
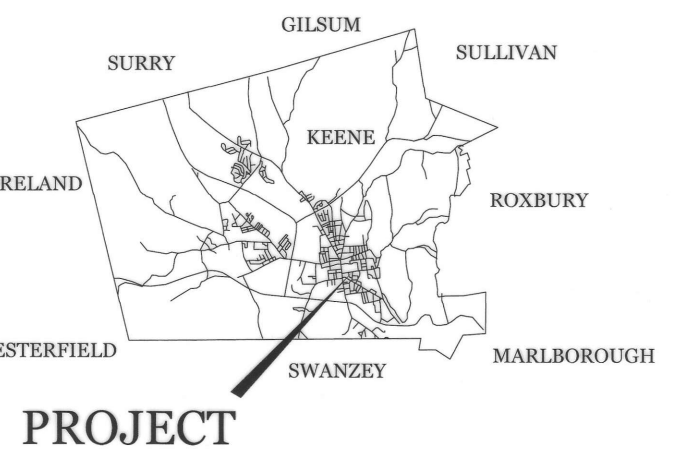
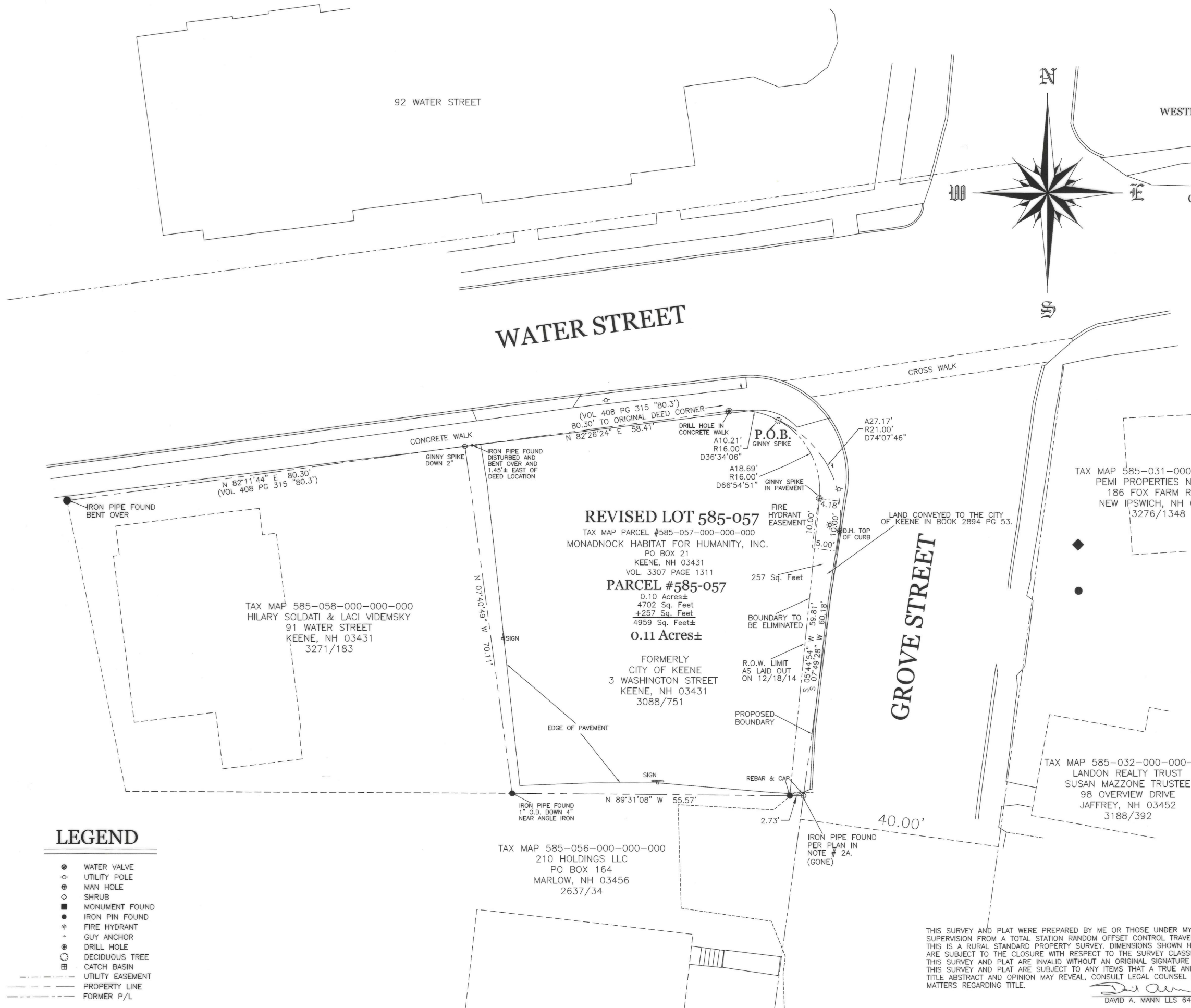
MONADNOCK HABITAT FOR HUMANITY DUPLEX  
0 GROVE STREET  
KEENE, NEW HAMPSHIRE 03431

MONADNOCK HABITAT FOR HUMANITY

PROJ. #:  
K2813

DATE:  
31-MAR-26

DESIGN: LPS SHEET  
DRAWN: AJG  
CHECKED: LPS **N-1**



### NOTES

- BEARINGS ARE BASED ON GPS OBSERVATION AS PROVIDED, AND THE PLAN IN NOTE 2A.
- PLAN REFERENCES:  
A. GROVE STREET WIDENING PLAN, PREPARED BY SVE ASSOCIATES DATED 3-11-2013, ON FILE AT KEENE PUBLIC WORKS.
- ASSESSOR INFORMATION BASED ON TOWN RECORDS:  
TAX MAP PARCEL #585-057-000-000-000  
MONADNOCK HABITAT FOR HUMANITY, INC.  
PO BOX 21  
KEENE, NH 03431  
VOL. 3307 PAGE 1311
- ZONING DISTRICT: RP
- THE RIGHT OF WAY OF WATER STREET AND GROVE STREET ARE AS SHOWN ON CITY MAPPING AS PROVIDED, SEE NOTE 2A ABOVE.

**RIGHT OF WAY AMENDMENT PLAN**  
 OF  
**REVISED LOT 585-057**  
 PREPARED FOR  
**CITY OF KEENE**  
 AND  
**MONADNOCK HABITAT FOR HUMANITY, INC.**  
 ZERO GROVE STREET  
 CITY OF KEENE  
 COUNTY OF CHESHIRE  
 STATE OF NEW HAMPSHIRE  
 SCALE: 1 INCH = 10 FEET  
 MAY 27, 2025

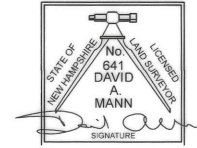


### LEGEND

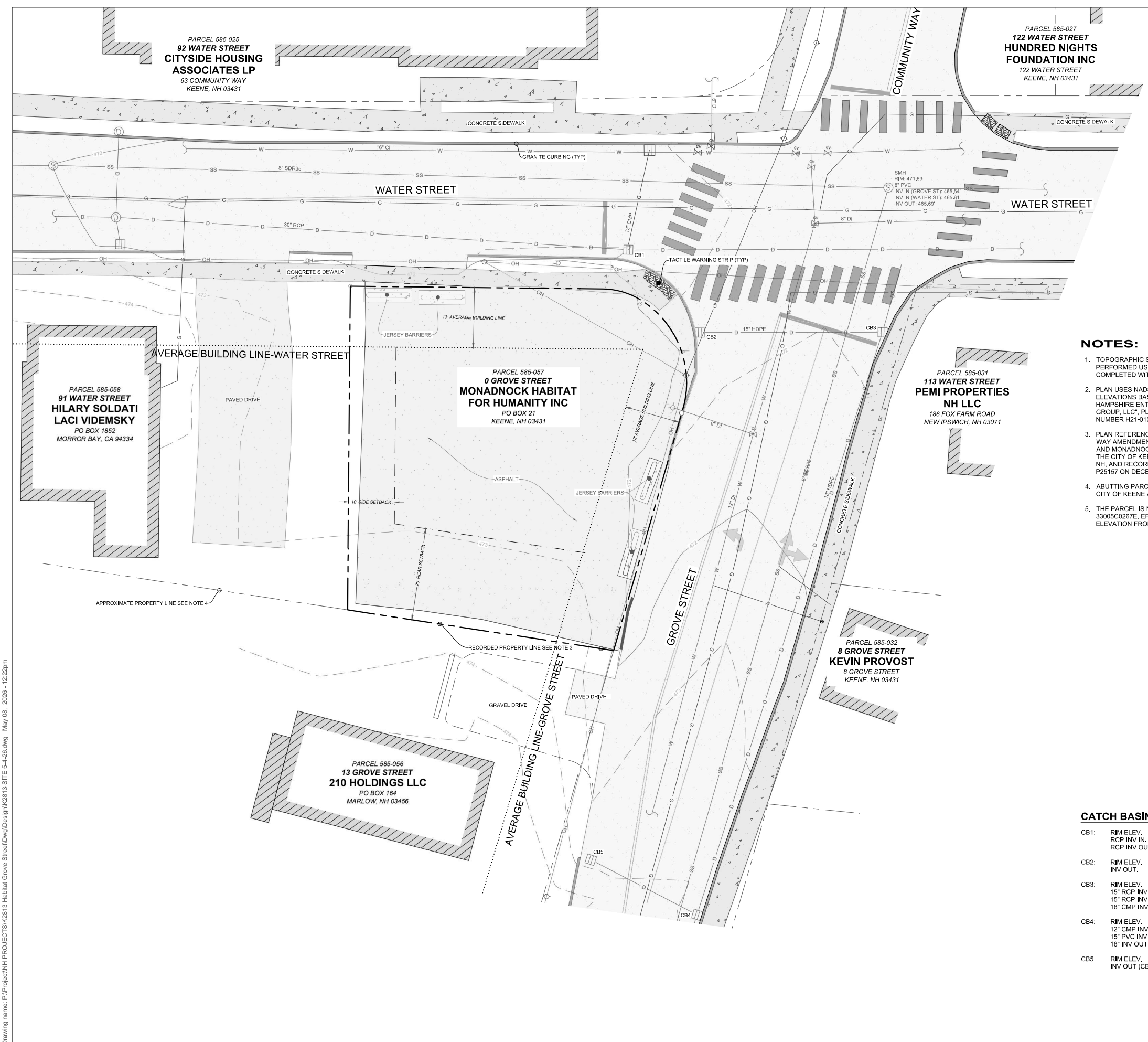
- WATER VALVE
- UTILITY POLE
- ⊙ MAN HOLE
- ◇ SHRUB
- MONUMENT FOUND
- IRON PIN FOUND
- \* FIRE HYDRANT
- + GUY ANCHOR
- DRILL HOLE
- DECIDUOUS TREE
- ⊠ CATCH BASIN
- - - UTILITY EASEMENT
- - - PROPERTY LINE
- - - FORMER P/L

THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION FROM A TOTAL STATION RANDOM OFFSET CONTROL TRAVERSE. THIS IS A RURAL STANDARD PROPERTY SURVEY. DIMENSIONS SHOWN HEREON ARE SUBJECT TO THE CLOSURE WITH RESPECT TO THE SURVEY CLASSIFICATION. THIS SURVEY AND PLAT ARE INVALID WITHOUT AN ORIGINAL SIGNATURE AND SEAL. THIS SURVEY AND PLAT ARE SUBJECT TO ANY ITEMS THAT A TRUE AND ACCURATE TITLE ABSTRACT AND OPINION MAY REVEAL, CONSULT LEGAL COUNSEL FOR ALL MATTERS REGARDING TITLE.

DAVID A. MANN LLS 641



DAVID A. MANN SURVEY  
 40 GULF ROAD  
 CHESTERFIELD, N.H. 03443  
 603.903.7259  
 11-07-2025, NOTATIONS  
 6-25-2025, EAST BOUNDARY  
 6-9-2025, ADDRESS  
 REVISION BLOCK:



**SYMBOL LEGEND**

**LINE TYPES**

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPERTY LINE
- ABUTTER LINE
- PROPERTY LINE SETBACK
- WATER MAIN
- ELECTRIC POWER LINE
- OVERHEAD UTILITIES
- SANITARY SEWER LINE
- UNDERGROUND GAS LINE

**POINTS**

- IRON PIPE/PIPEROD
- DRILL HOLE
- GINNY SPIKE
- SEWER MANHOLE
- DRAINAGE MANHOLE
- CATCH BASIN
- WATER VALVE
- CURB STOP
- FIRE HYDRANT
- UTILITY POLE
- GUY POLE/WIRE
- SIGN
- SHRUB

**MISCELLANEOUS**

- BUILDING
- PAVEMENT
- CONCRETE

- NOTES:**
- TOPOGRAPHIC SURVEY CONDUCTED JANUARY 19, 2026 BY SVE ASSOCIATES PERFORMED USING A TRIMBLE S6 ROBOTIC INSTRUMENT, TOPOGRAPHICAL SURVEY COMPLETED WITH SIGNIFICANT SNOW COVER.
  - PLAN USES NAD83 NEW HAMPSHIRE STATE PLAN COORDINATE SYSTEM AND NAVD88 ELEVATIONS BASED ON PLAN BY HUNTLEY SURVEY & DESIGN OF TEMPLE NEW HAMPSHIRE ENTITLED "EXISTING CONDITION PLAN LAND OF GREEN DIAMOND GROUP, LLC", PLAN DATED 03/17/2021, HUNTLEY SURVEY & DESIGN PROJECT NUMBER H21-010, AND NGS PIC#MZ020 USGS SURVEY DISK SET IN CONCRETE POST.
  - PLAN REFERENCES PROPERTY LINES FROM RECORDED PLAN ENTITLED "RIGHT OF WAY AMENDMENT PLAN OF REVISED LOT 585-057 PREPARED FOR CITY OF KEENE AND MONADNOCK HABITAT FOR HUMANITY, INC" LOCATED AT 0 GROVE STREET IN THE CITY OF KEENE BY DAVID A. MAHN SURVEY OF 40 GULF ROAD CHESTERFIELD, NH, AND RECORDED IN THE CHESHIRE REGISTRY OF DEEDS UNDER PLAN NUMBER P25157 ON DECEMBER 18, 2025.
  - ABUTTING PARCEL'S PROPERTY LINES ARE APPROXIMATE AND ARE SOURCED FROM CITY OF KEENE AXISGIS SITE.
  - THE PARCEL IS NOT LOCATED IN A MAPPED FLOOD HAZARD AREA PER FEMA PANEL 33005C0267E, EFFECTIVELY DATED MAY 23, 2006, THE CLOSEST FLOOD HAZARD ELEVATION FROM CROSS SECTIONS N & O IS 475.0.

**CATCH BASIN DATA**

CB1:	RIM ELEV.	471.99'
	RCP INV IN.	467.39'
	RCP INV OUT.	467.29'
CB2:	RIM ELEV.	471.79'
	INV OUT.	467.79'
CB3:	RIM ELEV.	471.81'
	15" RCP INV IN. (CB4)	468.81'
	15" RCP INV IN.	467.81'
	18" CMP INV OUT.	467.81'
CB4:	RIM ELEV.	473.33'
	12" CMP INV IN. (CB5)	468.73'
	15" PVC INV IN.	467.63'
	18" INV OUT.	467.53'
CB5:	RIM ELEV.	473.31'
	INV OUT (CB4)	467.11'

**DISCLAIMER:**  
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STATE OF NEW HAMPSHIRE  
LIZA P. SARGENT  
No. 13385  
LICENSED PROFESSIONAL ENGINEER

*Liza Sargent* 5/8/26  
LIZA P. SARGENT DATE  
R.C.E. NUMBER: 13385

NO.	DATE	REVISION	CHK	DWN

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T 802.257.0561  
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**EXISTING CONDITIONS**

MONADNOCK HABITAT FOR HUMANITY DUPLEX  
0 GROVE STREET  
KEENE, NEW HAMPSHIRE 03431

MONADNOCK HABITAT FOR HUMANITY

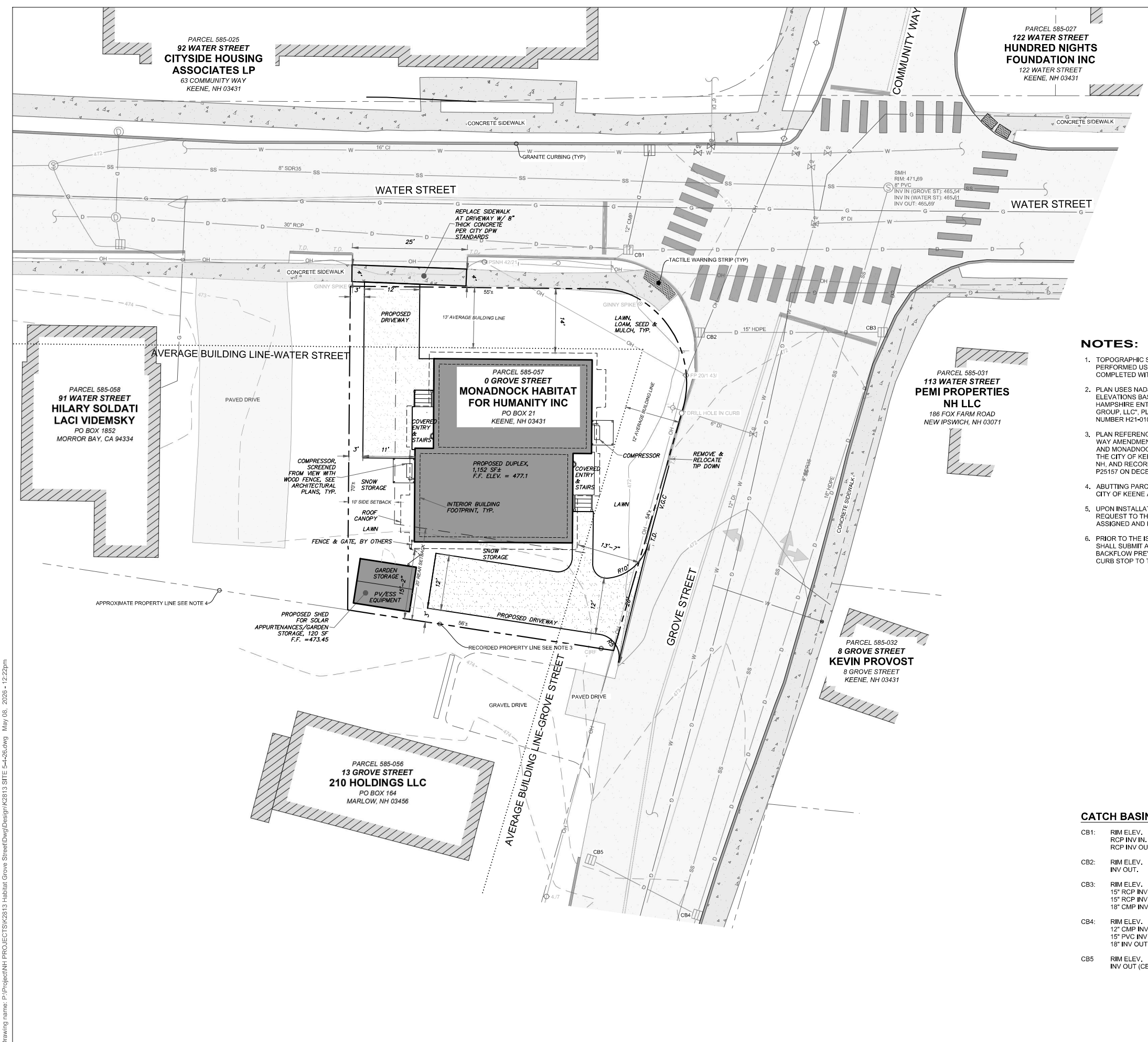
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GRAPHIC SCALE 1" = 10'

PROJ. #:  
K2813

DATE:  
31-MAR-26

DESIGN: LPS SHEET  
DRAWN: AJG  
CHECKED: LPS **S-1**

Drawing name: P:\Project\NH PROJECTS\K2813 Habitat Grove Street\Design\K2813 SITE 5-4-26.dwg May 08, 2026 - 12:22pm



**SYMBOL LEGEND**

**LINE TYPES**

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
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- ABUTTER LINE
- PROPERTY LINE SETBACK
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- OVERHEAD UTILITIES
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- NOTES:**
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  - ABUTTING PARCEL'S PROPERTY LINES ARE APPROXIMATE AND ARE SOURCED FROM CITY OF KEENE AXISGIS SITE.
  - UPON INSTALLATION OF BUILDING FOUNDATION, THE OWNER SHALL SUBMIT A REQUEST TO THE CITY ENGINEER FOR A STREET ADDRESS ASSIGNMENT TO BE ASSIGNED AND REGISTERED IN ACCORDANCE WITH E-911 STANDARDS.
  - PRIOR TO THE ISSUANCE OF A CO, THE DEVELOPER AND/OR PROPERTY OWNER SHALL SUBMIT A REQUEST TO THE CITY ENGINEER FOR A WATER METER AND BACKFLOW PREVENTOR INSTALLATION AND OPERATION OF THE WATER SERVICE CURB STOP TO TURN ON THE WATER.

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CB1:	RIM ELEV.	471.99'
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STATE OF NEW HAMPSHIRE  
LIZA P. SARGENT  
No. 13365  
LICENSED PROFESSIONAL ENGINEER

*Liza Sargent* 5/8/26  
DATE

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

NO.	REVISION	DATE	BY	CHK
1	REVISED PER CITY STAFF COMMENTS	04-MAY-26	LPS	LPS

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**SITE PLAN**

MONADNOCK HABITAT FOR HUMANITY DUPLEX  
0 GROVE STREET  
KEENE, NEW HAMPSHIRE 03431

MONADNOCK HABITAT FOR HUMANITY

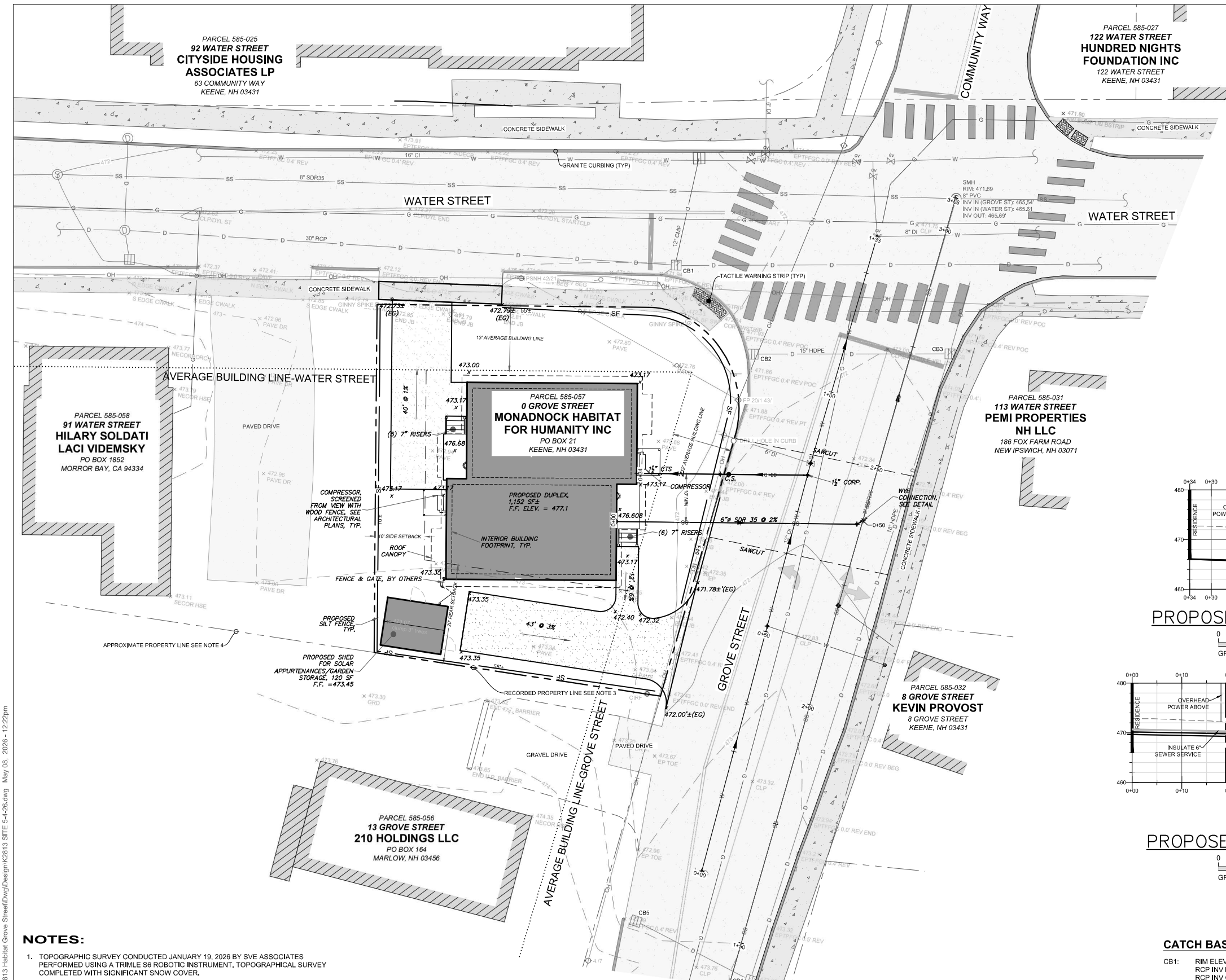
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PROJ. #:  
K2813

DATE:  
31-MAR-26

DESIGN: LPS SHEET  
DRAWN: AJG  
CHECKED: LPS **C-1**

Drawing name: P:\Project\NH PROJECTS\K2813 Habitat Grove Street\Design\K2813 SITE 5-4-26.dwg May 06, 2026 - 12:22pm



**SYMBOL LEGEND**

**LINE TYPES**

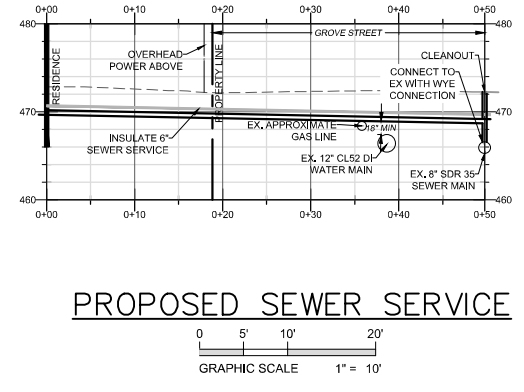
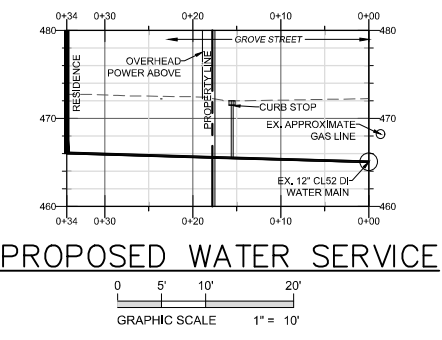
- EXISTING MAJOR CONTOUR
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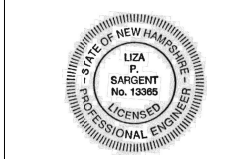
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	15" RCP INV IN.	467.81'
	18" CMP INV OUT.	467.81'
CB4:	RIM ELEV.	473.33'
	12" CMP INV IN. (CB5)	469.73'
	15" PVC INV IN.	467.63'
	18" INV OUT.	467.53'
CB5:	RIM ELEV.	473.31'
	INV OUT (CB4)	467.11'

**DISCLAIMER:**  
ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND LOCATIONS/DEPTH SHOULD BE CONFIRMED BY CONTRACTOR BEFORE ANY WORK COMMENCES.



Liza Sargent 5/7/26  
LIZA P. SARGENT DATE  
R.C.E. NUMBER: 13365

NO.	REVISION	DATE	DWN	CHK	LPS
1	REVISED PER CITY STAFF COMMENTS	04-MAY-26			

**SVE**  
Engineering  
Planning  
Landscape Architecture  
Surveying

SVE Associates  
P.O. Box 1818  
439 West River Road  
Brattleboro, VT 05302  
T 802.257.0561  
www.sveassoc.com

**GRADING & UTILITIES PLAN**  
MONADNOCK HABITAT FOR HUMANITY DUPLEX  
0 GROVE STREET  
KEENE, NEW HAMPSHIRE 03431  
MONADNOCK HABITAT FOR HUMANITY

0 5 10 20  
GRAPHIC SCALE 1" = 10'

PROJ. #:  
K2813

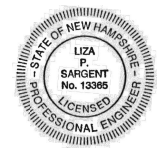
DATE:  
31-MAR-26

DESIGN: LPS SHEET  
DRAWN: AJG  
CHECKED: LPS **C-2**

- NOTES:**
- TOPOGRAPHIC SURVEY CONDUCTED JANUARY 19, 2026 BY SVE ASSOCIATES PERFORMED USING A TRIMBLE S6 ROBOTIC INSTRUMENT. TOPOGRAPHICAL SURVEY COMPLETED WITH SIGNIFICANT SNOW COVER.
  - PLAN USES NAD83 NEW HAMPSHIRE STATE PLAN COORDINATE SYSTEM AND NAVD88 ELEVATIONS BASED ON PLAN BY HUNTLEY SURVEY & DESIGN OF TEMPLE NEW HAMPSHIRE ENTITLED "EXISTING CONDITION PLAN LAND OF GREEN DIAMOND GROUP, LLC", PLAN DATED 03/17/2021, HUNTLEY SURVEY & DESIGN PROJECT NUMBER H21-010, AND NGS PIC#M20020 USGS SURVEY DISK SET IN CONCRETE POST.
  - PLAN REFERENCES PROPERTY LINES FROM RECORDED PLAN ENTITLED "RIGHT OF WAY AMENDMENT PLAN OF REVISED LOT 585-057 PREPARED FOR CITY OF KEENE AND MONADNOCK HABITAT FOR HUMANITY, INC" LOCATED AT 0 GROVE STREET IN THE CITY OF KEENE BY DAVID A. MANN SURVEY OF 40 GULF ROAD CHESTERFIELD, NH, AND RECORDED IN THE CHESHIRE REGISTRY OF DEEDS UNDER PLAN NUMBER P25157 ON DECEMBER 18, 2025.
  - ABUTTING PARCEL'S PROPERTY LINES ARE APPROXIMATE AND ARE SOURCED FROM CITY OF KEENE AXISGIS SITE.

- KEENE DPW NOTES:**
- UPON COMPLETION OF THE INSTALLATION OF THE BUILDING FOUNDATION AND PRIOR TO ISSUANCE OF A UTILITY CONNECTION PERMIT THE PROPERTY OWNER SHALL SUBMIT A REQUEST FOR A STREET NUMBER ADDRESS FROM THE CITY ENGINEER IN ACCORDANCE WITH E-911 AND CITY STANDARDS.
  - PRIOR TO EXCAVATION IN THE RIGHT OF WAY AND THE INSTALLATION OF THE WATER AND SEWER UTILITIES THE CONTRACTOR SHALL SUBMIT FOR AND OBTAIN AN EXCAVATION AND UTILITY CONNECTION PERMIT WITH THE PUBLIC WORKS DEPARTMENT.
  - THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER AT THE PUBLIC WORKS DEPARTMENT, TO REQUEST WATER METER(S) AND BACKFLOW PREVENTOR INSTALLATION FOR THE BUILDING.
  - ANY FUTURE MODIFICATION TO THE DRIVEWAYS SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER.

Drawing name: P:\Projects\NH PROJECTS\K2813 Habitat Grove Street\DWG\Design\K2813 SITE 5-4-26.dwg May 06, 2026 - 12:22pm



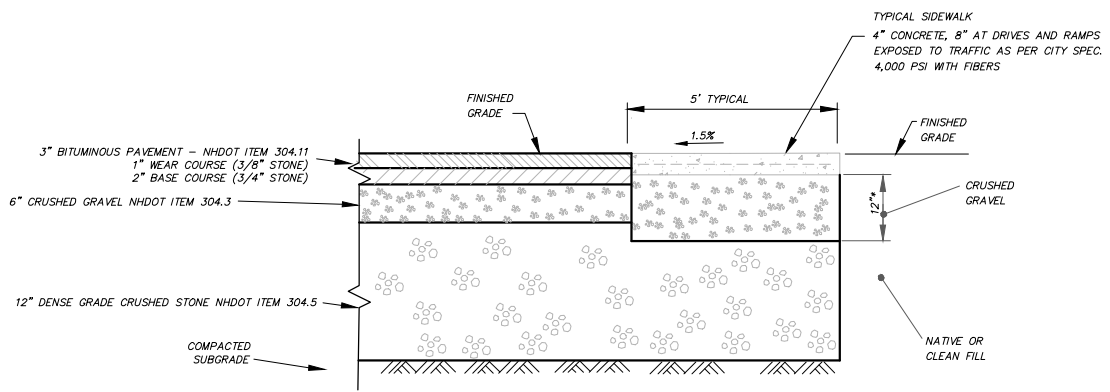
5/8/26  
 Liza P. Sargent  
 R.C.E. NUMBER: 13365

NO.	REVISION	DATE	DWN	CHK
1	REVISED PER CITY STAFF COMMENTS	04-MAY-26	LPS	LPS

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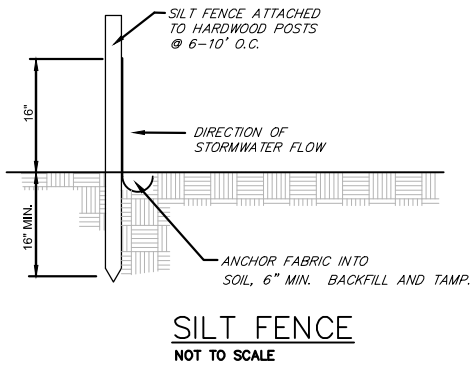
**CONSTRUCTION DETAILS**  
 MONADNOCK HABITAT FOR HUMANITY DUPLEX  
 0 GROVE STREET  
 KEENE, NEW HAMPSHIRE 03431  
 MONADNOCK HABITAT FOR HUMANITY

GRAPHIC SCALE: AS SHOWN  
 PROJ. #: K2813  
 DATE: 31-MAR-26  
 DESIGN: LPS  
 DRAWN: AJG  
 CHECKED: LPS  
**C-3**

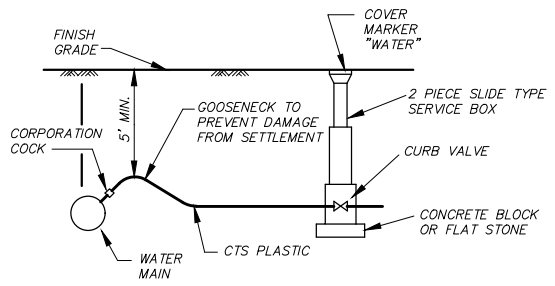


1. SUB BASE SHALL BE A MINIMUM THICKNESS OF 12" OF CLEAN GRANULAR MATERIAL OR SUITABLE NATIVE/EXISTING MATERIAL COMPACTED TO 95%.
2. BASE SHALL BE A MINIMUM THICKNESS OF 6" OF CRUSHED GRAVEL COMPACTED TO 95%.
3. SIDEWALKS SHALL BE GRADED TO DRAIN, CROSS SLOPE NOT TO EXCEED 2%.
4. MAXIMUM LONGITUDINAL GRADE SHALL BE 0.5%.
5. MINIMUM LONGITUDINAL GRADE SHALL BE 0.5%.
6. CONCRETE SHALL BE 4000 PSI CLASS AA CONCRETE WITH 1.5 LBS OF SYNTHETIC FIBER REINFORCEMENT PER CUBIC YARD.
7. CONCRETE SHALL HAVE 5-9% AIR ENTRAINMENT.
8. SLUMP SHALL BE BETWEEN 3" AND 5".
9. MAXIMUM SPACING OF EXPANSION JOINTS SHALL BE 30 FEET, AT CURB RAMPS, AND EXTEND FULL WIDTH OF SIDEWALK.
10. CONTROL JOINTS SHALL BE A UNIFORM DISTANCE APART, TYPICALLY SPACED FIVE FEET, AND 3/4" DEEP.
11. ALL EDGES AND JOINTS SHALL BE FINISHED WITH A HAND EDGING TOOL.
12. THE SURFACE OF THE SIDEWALK SHALL BE MAG-FLOATED AND TROWELED, AND GIVEN A FINE GRAINED BROOM FINISH.
13. AS SOON AS THE CONCRETE HAS ATTAINED ITS INITIAL SET, IT SHALL BE COVERED WITH PLASTIC, BURLAP, OR OTHER APPROVED MATERIAL AND KEPT MOIST FOR A MINIMUM OF 7 DAYS TO CURE, AND SHALL NOT BE ALLOWED TO FREEZE. NO TRAFFIC SHALL BE ALLOWED ON THE SIDEWALK DURING THE CURING PERIOD.
14. CONCRETE SHALL BE SEALED WITH THE FOLLOWING METHOD, OR AS APPROVED BY THE ENGINEER: WATER REPELLANT TREATMENT OF SILANE-SILOXANE APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

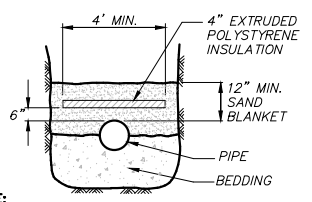
**DRIVEWAY WITH CONCRETE SIDEWALK**  
 NOT TO SCALE



**SILT FENCE**  
 NOT TO SCALE

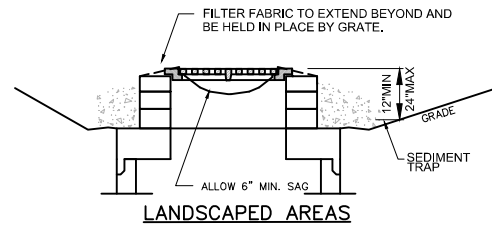


**SERVICE CONNECTION DETAIL**  
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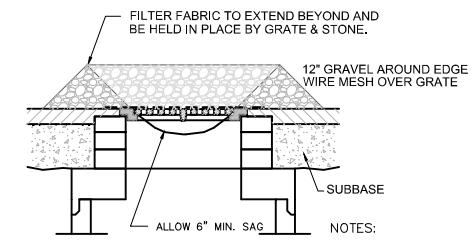


**NOTE:**  
 PLACE TWO 24" WIDE BY 2" THICK SECTIONS OF INSULATION 6" ABOVE TOP OF PIPE AS REQUIRED WHEN MIN. COVER IS LESS THAN SPECIFIED.

**INSULATION OVER PIPE DETAIL**  
 NOT TO SCALE



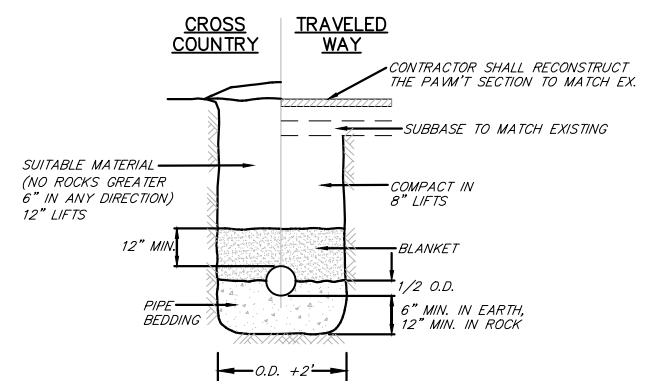
**LANDSCAPED AREAS**



**PAVED AREAS**

REGULAR MAINTENANCE, INCLUDING REPLACEMENT OF SEDIMENT & EROSION CONTROLS SHALL BE CONDUCTED IN ACCORDANCE WITH ALL PERMIT CONDITIONS, AT NO ADDITIONAL COST TO THE OWNER.

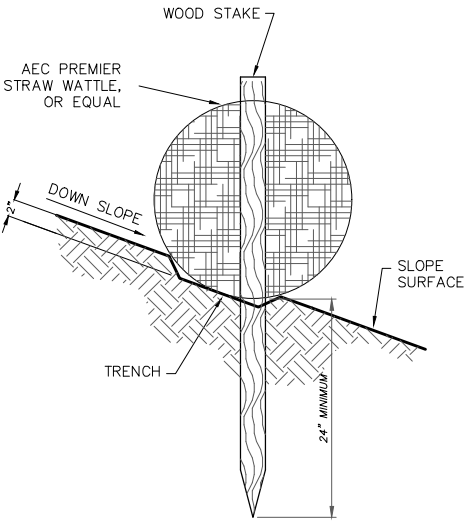
**CATCH BASIN GRATE INLET FILTER**  
 NOT TO SCALE



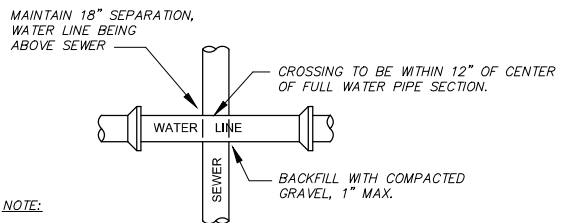
**PIPE MATERIAL BEDDING**

PIPE MATERIAL	BEDDING	BLANKET
DUCTILE IRON	6" SAND	12" SAND
PVC	6" SAND	12" SAND
HDPE	6" SAND	12" SAND
PLASTIC	6" SAND	12" SAND
COPPER	6" SAND	12" SAND
SDR 35	6" STONE	STONE HALF WAY UP PIPE & 12" SAND ABOVE

**PIPE IN TRENCH DETAIL**  
 NOT TO SCALE



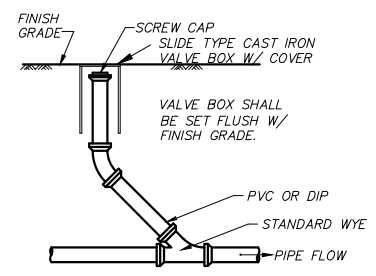
**STRAW WATTLE**  
 NOT TO SCALE



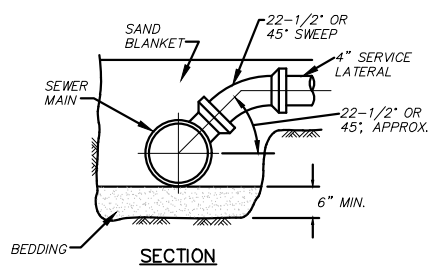
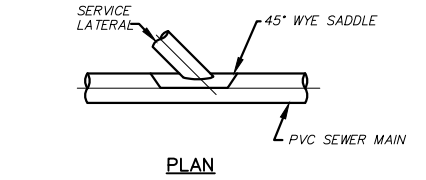
**NOTE:**  
 SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18 INCHES OF VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18 INCH VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN:

- A. THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER MAIN WITH SEWER JOINTS AS FAR AS POSSIBLE FROM THE WATER JOINTS.
- B. THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER.
- C. THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.
- D. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

**SEWER/WATER LINE CROSSING DETAIL**  
 NOT TO SCALE



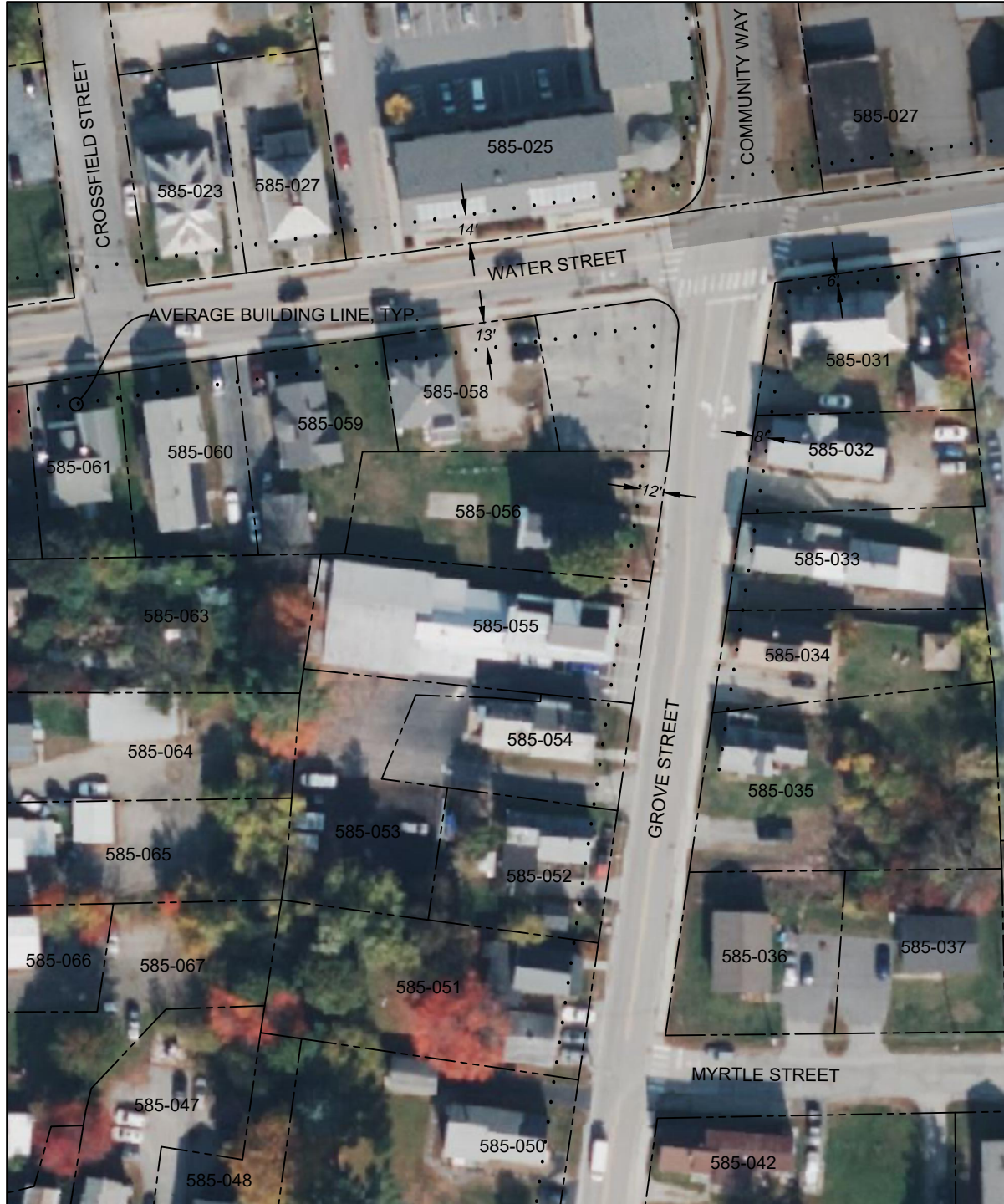
**CLEANOUT DETAIL**  
 NOT TO SCALE



**SEWER LATERAL WYE CONNECTION DETAIL**  
 NOT TO SCALE

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Drawing name: P:\Project\NH PROJECTS\K2813 Habitat Grove Street\Design\K2813 SITE 3-23-26.dwg Apr 02, 2026 - 10:30am



**LINE TYPES**

PROPERTY LINE ————

AVERAGE BUILDING LINE ••••••

PROPOSED BUILDING ————

PROPOSED BUILDING OVERHANG - - - -

**ZONING DISTRICT**

RESIDENTIAL PRESERVATION DISTRICT

DOWNTOWN DEVELOPMENT DISTRICT

**SVE** © 2026

Engineering  
 Planning  
 Landscape Architecture  
 Surveying

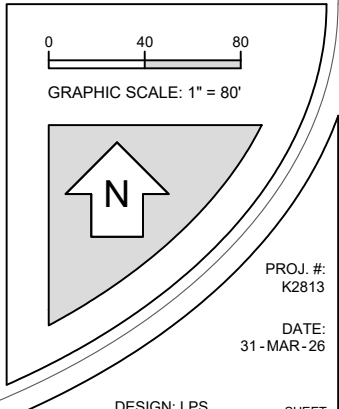
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NO.	REVISION	DATE	DWN	CHK

**AVERAGE BUILDING LINE**

MONADNOCK HABITAT FOR HUMANITY DUPLEX  
 0 GROVE STREET  
 KEENE, NEW HAMPSHIRE 03431

MONADNOCK HABITAT FOR HUMANITY



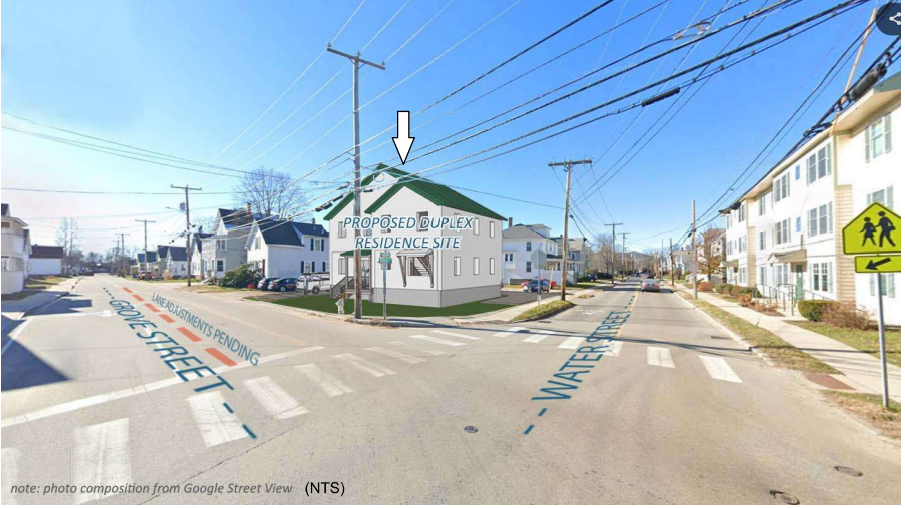
PROJ. #: K2813  
 DATE: 31-MAR-26

DESIGN: LPS  
 DRAWN: AJG  
 CHECKED: LPS

SHEET  
**B**

# MONADNOCK HABITAT FOR HUMANITY

0 GROVE STREET, KEENE, NH



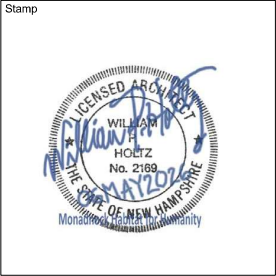
	EXTERIOR AREA	INTERIOR AREA
FIRST FLOOR AREA (UNIT A):	689 SF	576 SF
SECOND FLOOR AREA (UNIT A):	689 SF	576 SF
TOTAL AREA (UNIT A):	1,378 SF	1,152 SF
FIRST FLOOR AREA (UNIT B):	689 SF	576 SF
SECOND FLOOR AREA (UNIT B):	689 SF	576 SF
TOTAL AREA (UNIT B):	1,378 SF	1,152 SF
PORCH AREA (PER UNIT):	45 SF	

PROPOSED USE: DWELLING, TWO-FAMILY  
 PROPOSED BUILDING HEIGHT: 2 STORIES / LESS THAN 35 FT.  
 PROPOSED GROSS FLOOR AREA: 2,756 SF

PLAN LIST	
ARCHITECTURAL DRAWINGS	
A000	COVER SHEET
A101	FIRST FLOOR PLAN
A102	SECOND FLOOR PLAN
A103	ROOF PLAN
A200	EXTERIOR ELEVATIONS
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A203	EXTERIOR ELEVATIONS
A300	BUILDING SECTIONS
A301	BUILDING SECTIONS & GARDEN / ESS SHED

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REVISION SCHEDULE		
No.	Description	Date
	DEPT COMMENTS	5/06/2026



Project Name	MONADNOCK H4H
Address	GROVE STREET
City	KEENE
State	NH
Project Number	PROJECT #
Date	03-23-2026
Drawn by	SM
Project Team	WH, SM, TE, EC

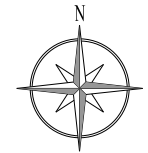
COVER SHEET

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Scale: AS NOTED

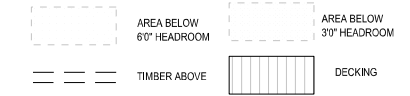
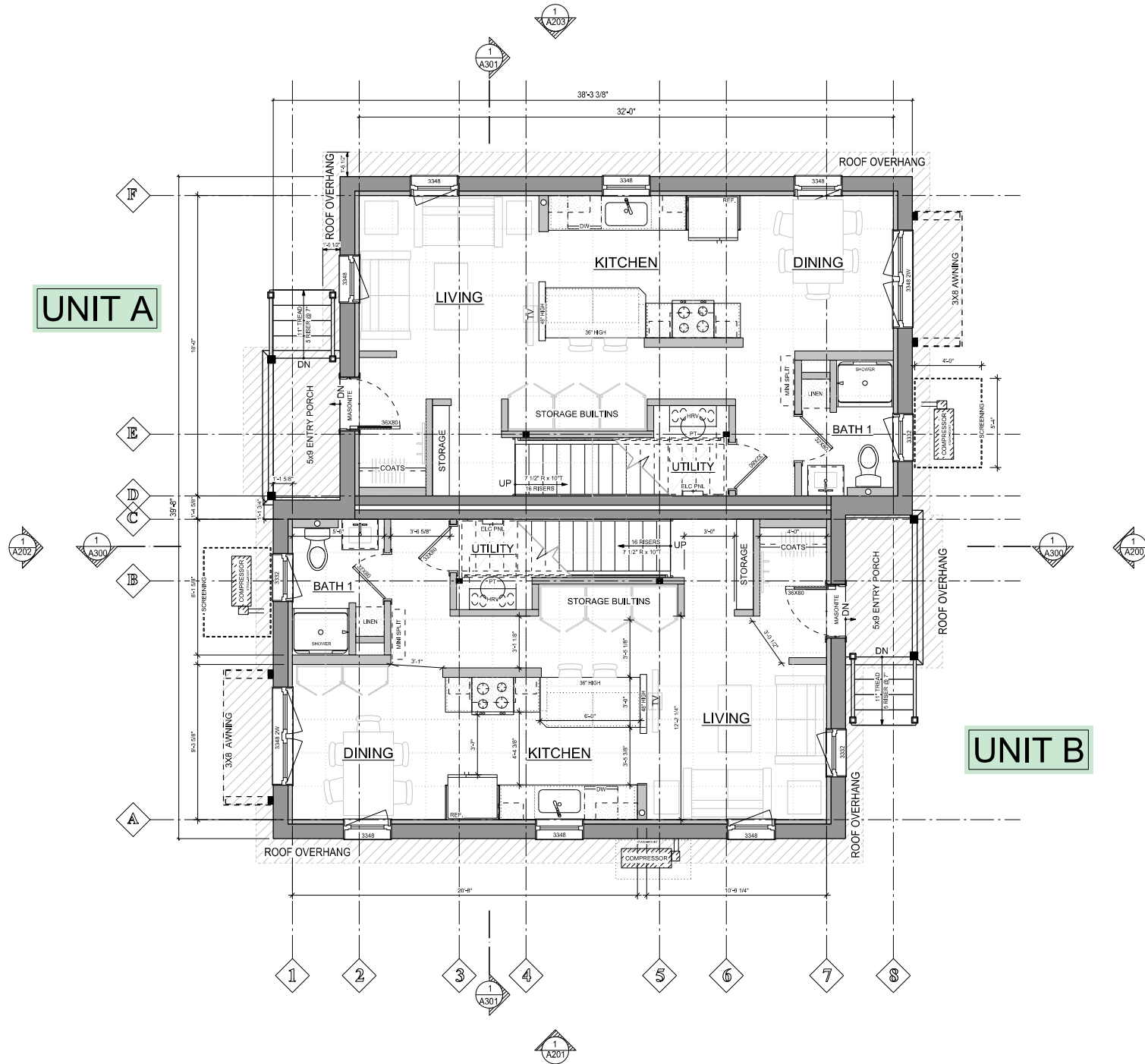
FOR REVIEW

ZBA / PLANNING APPLICATION - 06MAY2026



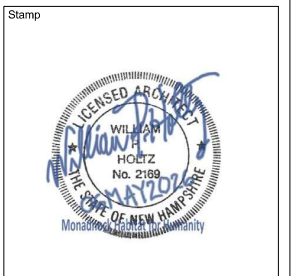
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REVISION SCHEDULE		
No.	Description	Date
1	DEPT COMMENTS	5/06/2026



WALL TYPE LEGEND	
INSULATED WALL PANEL WITH 2 1/2" OPEN-BUILT CHASE	
2x4 AT 24" O.C. PARTITION 5/8" GWB BOTH SIDES	
2x6 PARTITION (OR AS INDICATED) 5/8" GWB BOTH SIDES	
SITE INSULATED PANEL	
TIMBER POSTS	
2x6 AT 24" O.C. EXTERIOR WALL 5/8" SHEATHING	

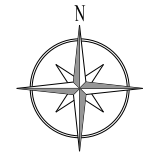
GENERAL FLOOR PLAN NOTES:  
 1. SEE A001 FOR SPECIFICATIONS AND ENERGY CODE INFORMATION.  
 2. REFER TO FOUNDATION AND FRAMING PLANS, DETAILS, AND SPECIFICATIONS FOR STRUCTURAL INFORMATION.  
 3. INTERIOR WALLS DIMENSIONED TO FINISH, (FINISH 5/8" THICK)  
 4. ALL INTERIOR WALLS ARE 2x4 UNLESS OTHERWISE INDICATED.



Project Name  
**MONADNOCK H4H**  
 Address GROVE STREET  
 City KEENE  
 State NH  
 Project Number PROJECT #  
 Date 03-23-2026  
 Drawn by SM  
 Project Team WH, SM, TE, EC

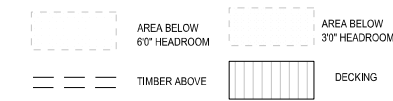
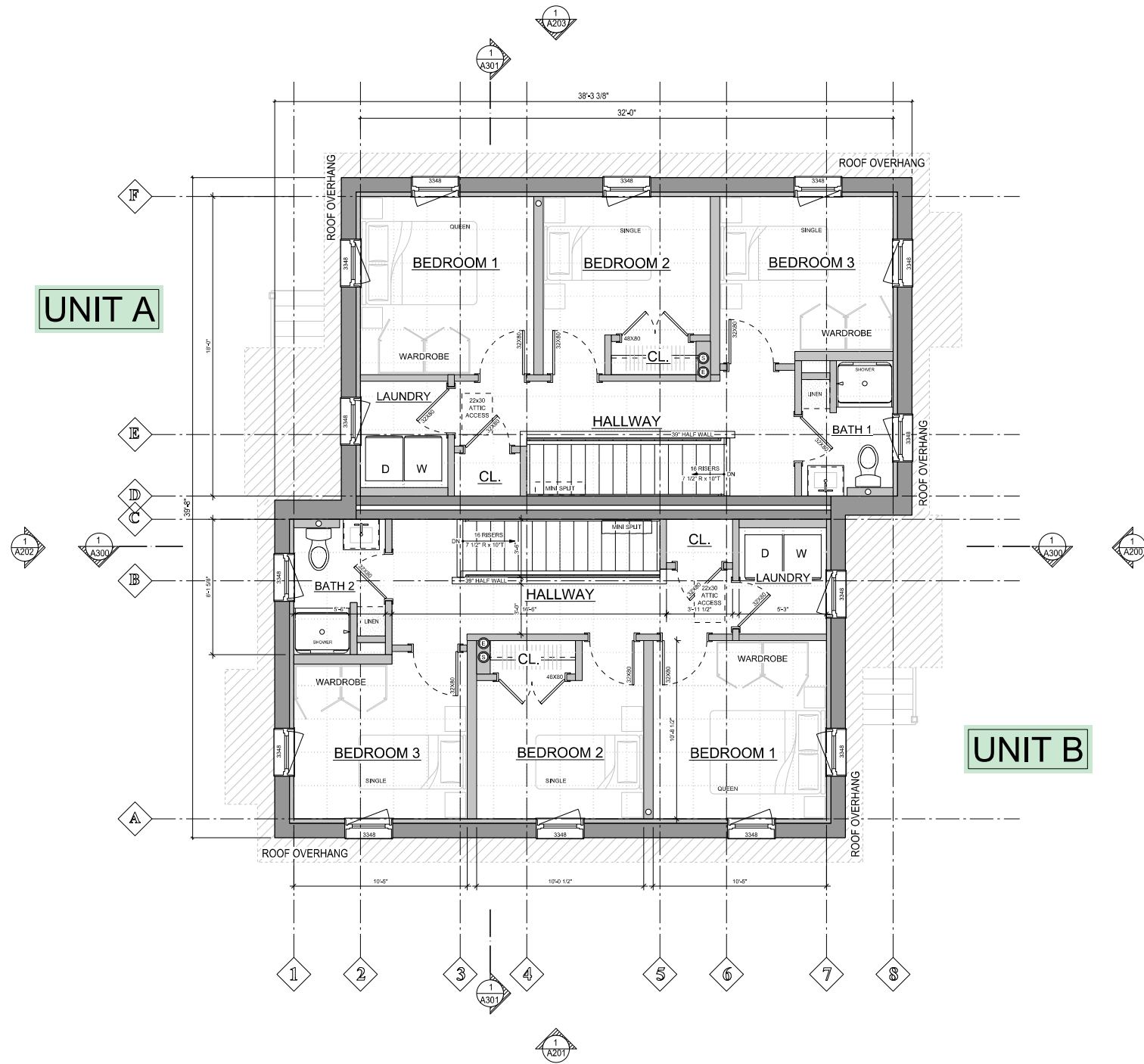
**FIRST FLOOR PLAN**  
**A101**  
 Scale AS NOTED  
**FOR REVIEW**

**ZBA / PLANNING APPLICATION - 06MAY2026**



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REVISION SCHEDULE		
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1	DEPT COMMENTS	5/06/2026

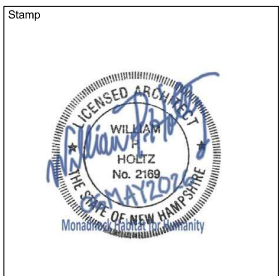


WALL TYPE LEGEND	
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SITE INSULATED PANEL	
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**ZBA / PLANNING APPLICATION - 06MAY2026**

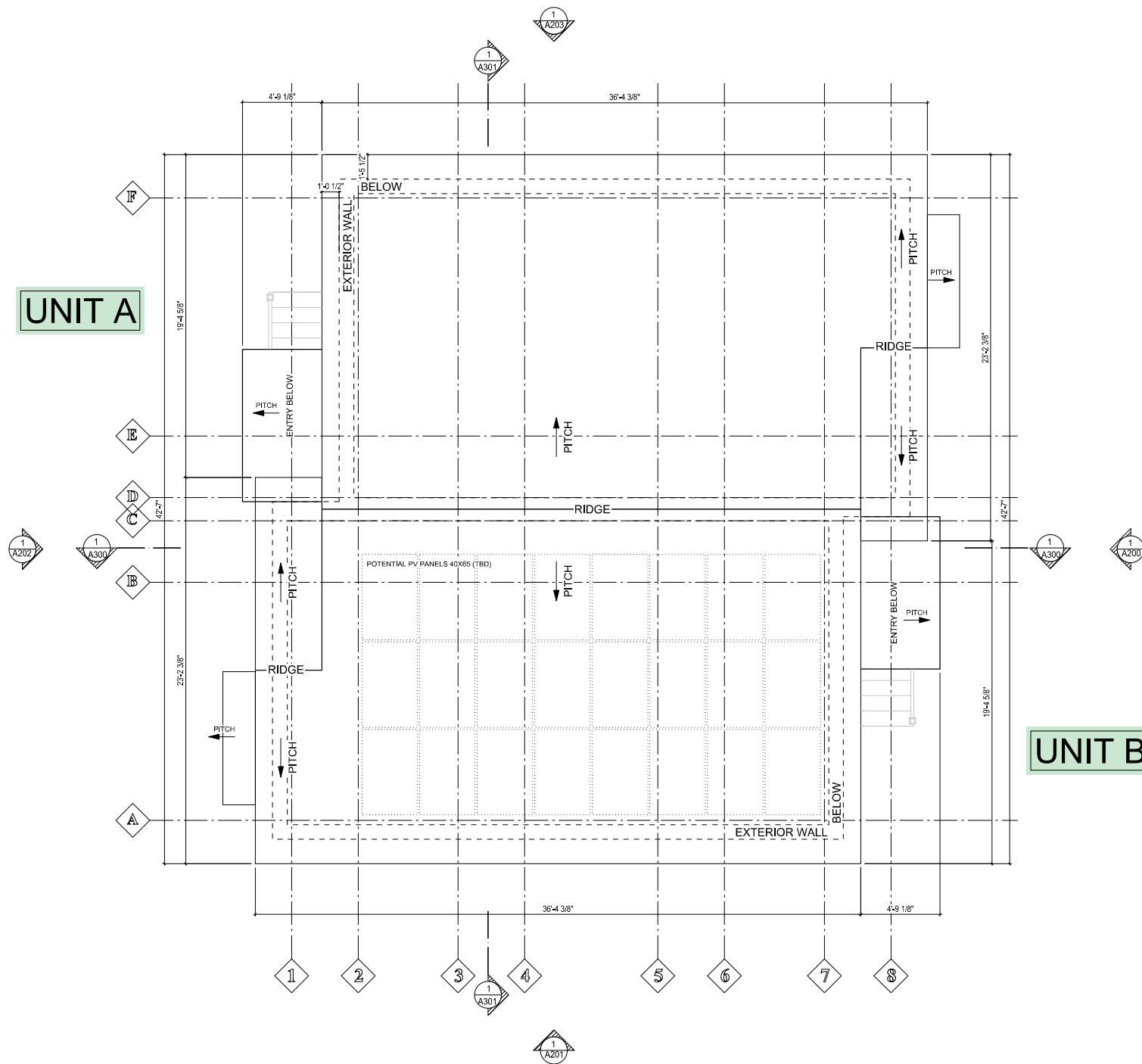
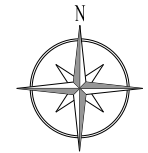


Project Name  
**MONADNOCK H4H**  
 Address GROVE STREET  
 City KEENE  
 State NH  
 Project Number PROJECT #  
 Date 03-23-2026  
 Drawn by SM  
 Project Team WH, SM, TE, EC

**SECOND FLOOR PLAN**

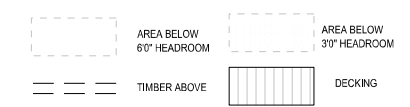
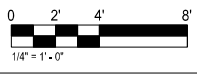
**A102**

Scale AS NOTED  
**FOR REVIEW**



**UNIT A**

**UNIT B**

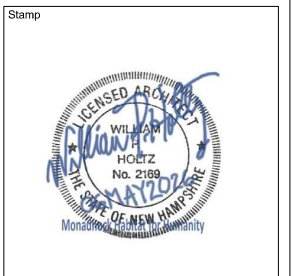


WALL TYPE LEGEND	
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2x4 AT 24" O.C. PARTITION 5/8" GWB BOTH SIDES	
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2x6 AT 24" O.C. EXTERIOR WALL 5/8" SHEATHING	

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REVISION SCHEDULE		
No.	Description	Date
1	DEPT COMMENTS	5/06/2026



Project Name  
**MONADNOCK H4H**  
 Address GROVE STREET  
 City KEENE  
 State NH  
 Project Number PROJECT #  
 Date 03-23-2026  
 Drawn by SM  
 Project Team WH, SM, TE, EC

**ROOF PLAN**

**A103**

Scale AS NOTED

**FOR REVIEW**

**ZBA / PLANNING APPLICATION - 06MAY2026**



UNIT B UNIT A  
 1 EXTERIOR ELEVATION STUDY



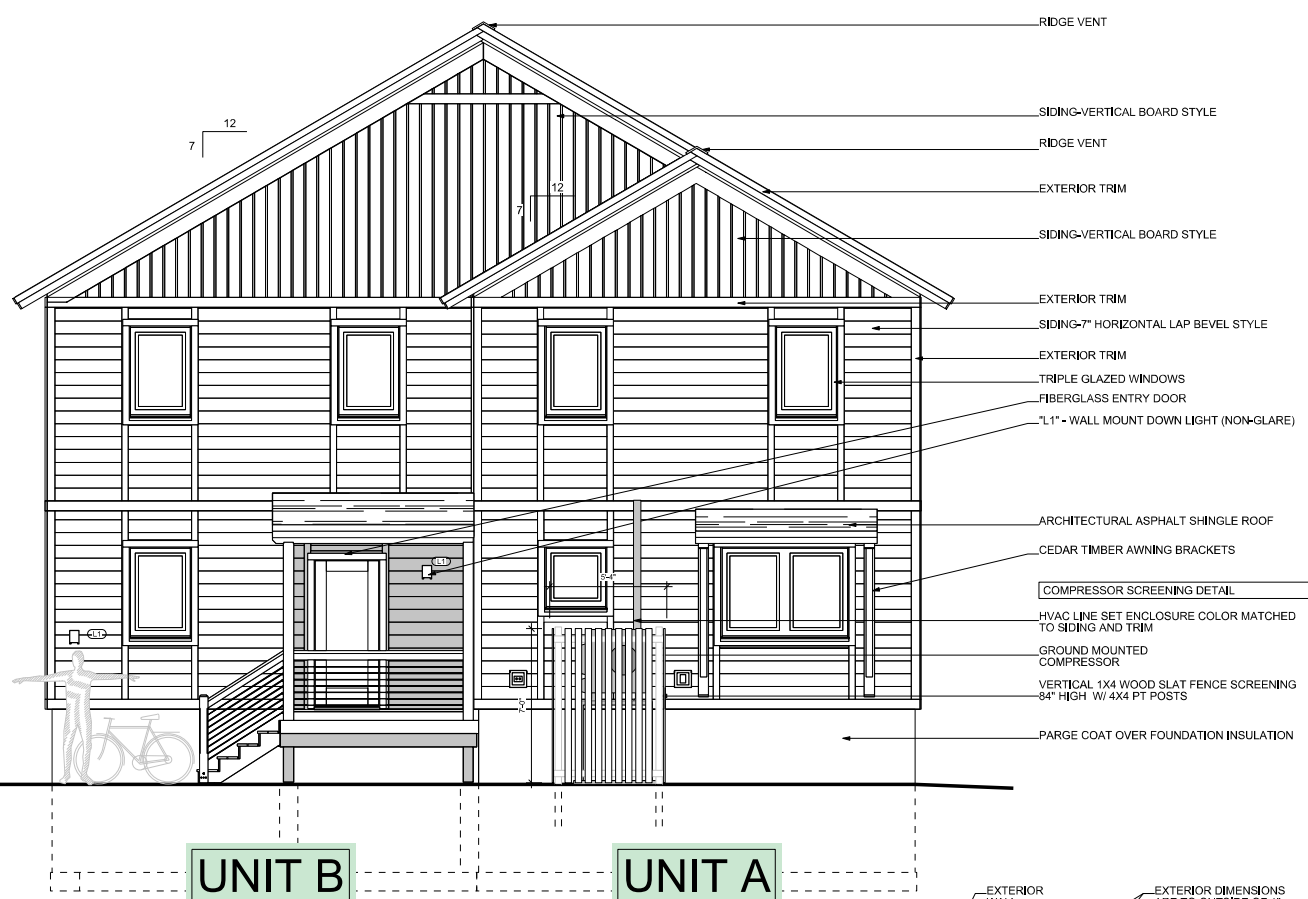
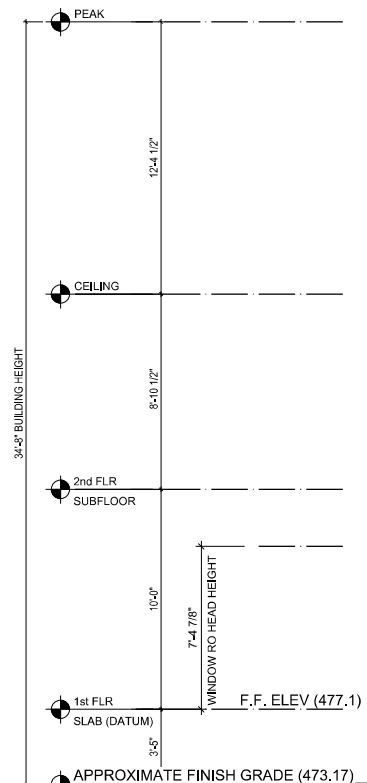
UNIT B UNIT A  
 1 EXTERIOR ELEVATION STUDY



UNIT B UNIT A  
 1 EXTERIOR ELEVATION STUDY

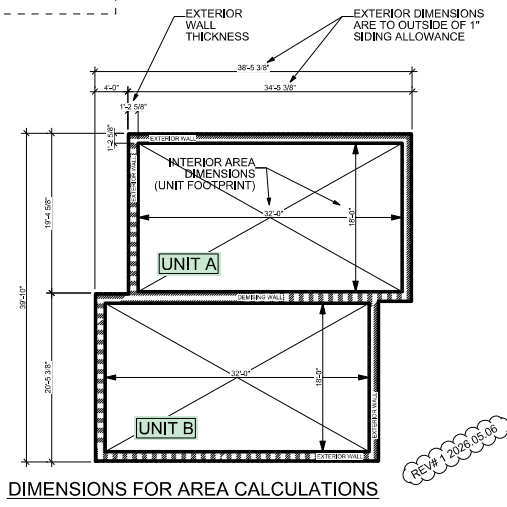
EXTERIOR COLOR / RENDERING STUDY

SIDING, TRIM, EXTERIOR FINISHES, AND COLOR PALETTES SHOWN ARE APPROXIMATE PLACEHOLDERS WITH THE INTENT THAT FINAL MATERIAL SELECTIONS AND METHODS WILL EMBRACE AFFORDABILITY, LOW MAINTENANCE, EASE OF INSTALLATION, VOLUNTEER LABOR PARTICIPATION, MAXIMUM OFF-SITE PREFABRICATION, AND AN AESTHETIC COMPATIBLE, COMPLIMENTARY, AND APPROPRIATE TO THE EXISTING NEIGHBORHOOD CONTEXT.



1 EXTERIOR ELEVATION - EAST  
 (SIDE YARD, GROVE STREET)

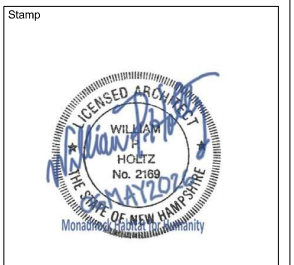
	EXTERIOR AREA	INTERIOR AREA
FIRST FLOOR AREA (UNIT A):	689 SF	576 SF
SECOND FLOOR AREA (UNIT A):	689 SF	576 SF
TOTAL AREA (UNIT A):	1,378 SF	1,152 SF
FIRST FLOOR AREA (UNIT B):	689 SF	576 SF
SECOND FLOOR AREA (UNIT B):	689 SF	576 SF
TOTAL AREA (UNIT B):	1,378 SF	1,152 SF



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REVISION SCHEDULE

No.	Description	Date
1	DEPT. COMMENTS	5/06/2026



Project Name  
**MONADNOCK H4H**

Address  
 GROVE STREET

City  
 KEENE

State  
 NH

Project Number  
 PROJECT #

Date  
 03-23-2026

Drawn by  
 SM

Project Team  
 WH, SM, TE, EC

EXTERIOR ELEVATIONS

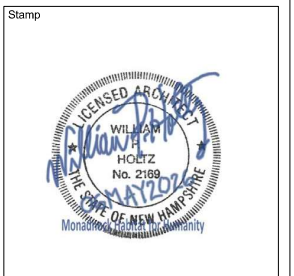
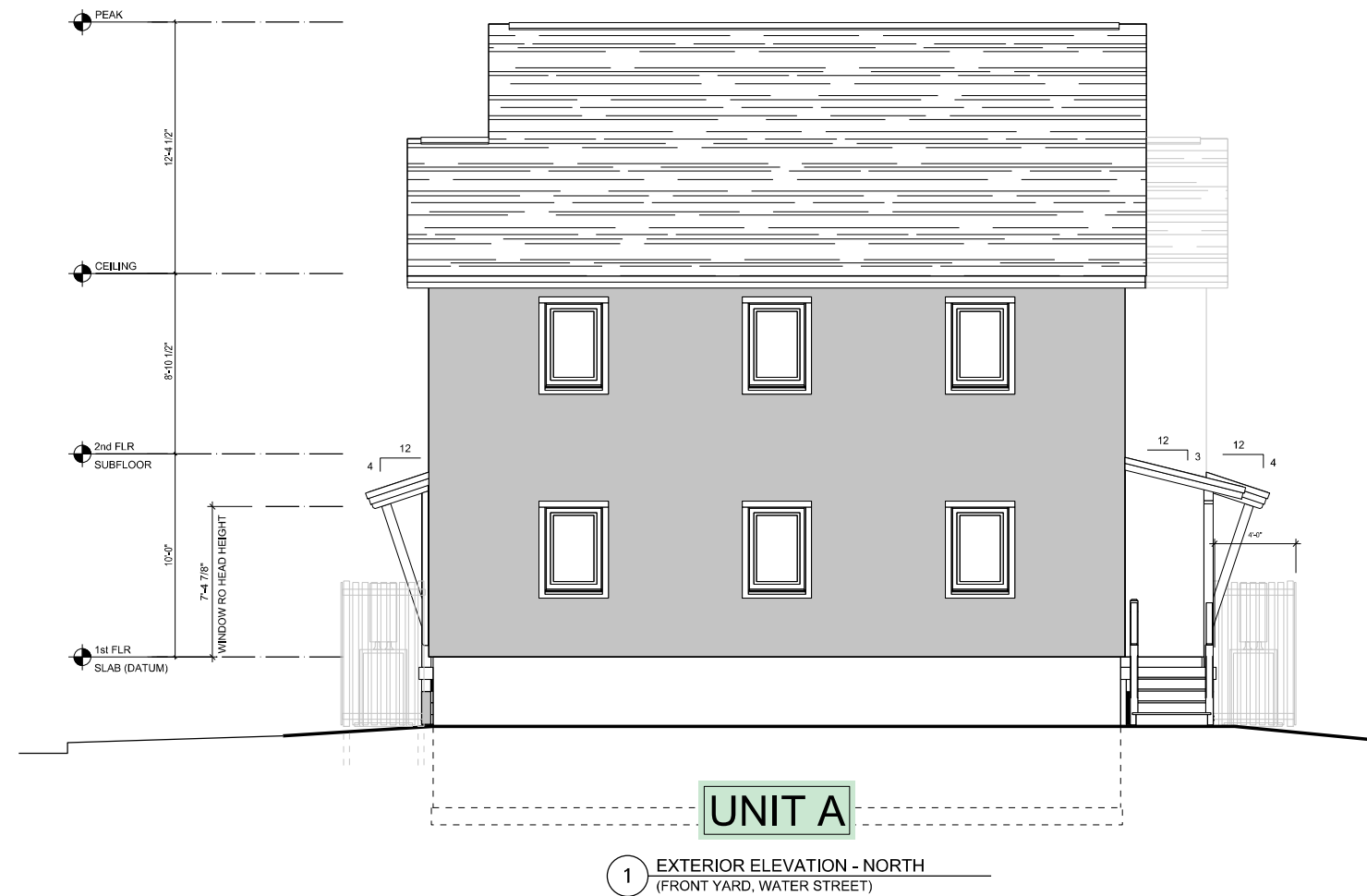
**A200**

Scale  
 AS NOTED

**FOR REVIEW**

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REVISION SCHEDULE		
No.	Description	Date
1	DEPT COMMENTS	5/06/2026



Project Name	MONADNOCK H4H
Address	GROVE STREET
City	KEENE
State	NH
Project Number	PROJECT #
Date	03-23-2026
Drawn by	SM
Project Team	WH, SM, TE, EC

EXTERIOR ELEVATIONS

A201

Scale: AS NOTED

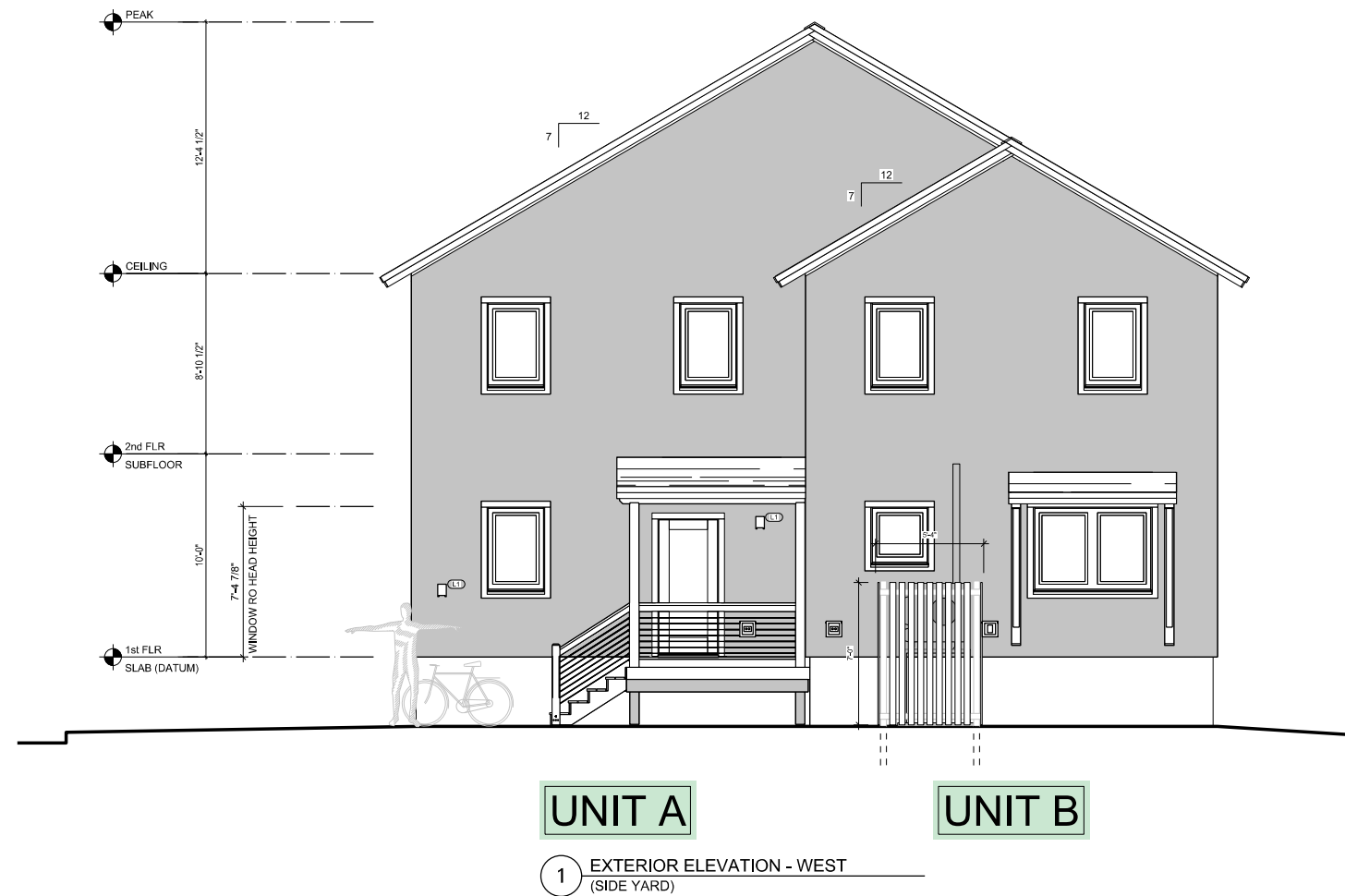
FOR REVIEW

NOTES:  
 1. FOUNDATIONS AND FOOTINGS SHOWN ARE APPROXIMATE. ALL FOOTINGS TO BE BELOW FROST LEVEL PER LOCAL CODE REQUIREMENTS.  
 2. REFER TO FOUNDATION AND FRAMING PLANS, DETAILS AND SPECIFICATIONS FOR STRUCTURAL INFORMATION.

**ZBA / PLANNING APPLICATION - 06MAY2026**

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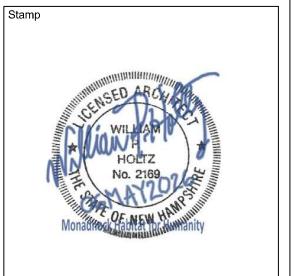
REVISION SCHEDULE		
No.	Description	Date
1	DEPT COMMENTS	5/06/2026



**UNIT A**

**UNIT B**

1 EXTERIOR ELEVATION - WEST  
 (SIDE YARD)



Project Name	MONADNOCK H4H
Address	GROVE STREET
City	KEENE
State	NH
Project Number	PROJECT #
Date	03-23-2026
Drawn by	SM
Project Team	WH, SM, TE, EC

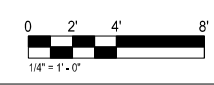
EXTERIOR  
 ELEVATIONS

**A202**

Scale: AS NOTED  
**FOR REVIEW**

NOTES:  
 1. FOUNDATIONS AND FOOTINGS SHOWN ARE APPROXIMATE. ALL FOOTINGS TO BE BELOW FROST LEVEL PER LOCAL CODE REQUIREMENTS.  
 2. REFER TO FOUNDATION AND FRAMING PLANS, DETAILS AND SPECIFICATIONS FOR STRUCTURAL INFORMATION.

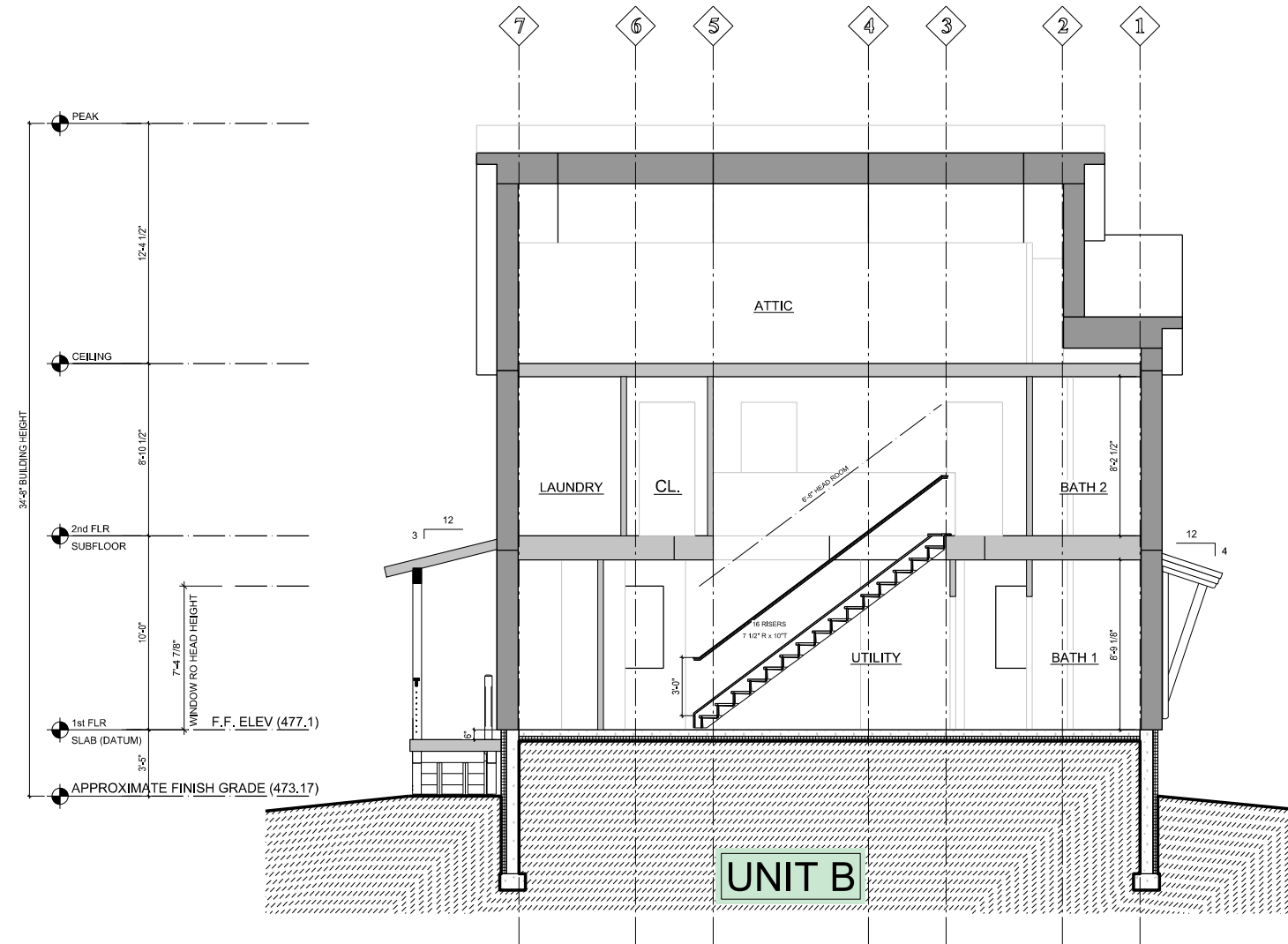
**ZBA / PLANNING APPLICATION - 06MAY2026**





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REVISION SCHEDULE		
No.	Description	Date
1	DEPT COMMENTS	5/06/2026

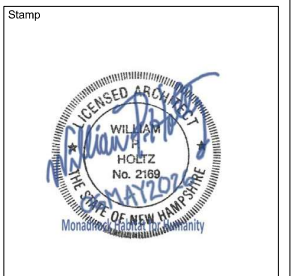


1 BUILDING SECTION @ STAIRS



SECTION WALL TYPE LEGEND	
INSULATED PANEL	
UNINSULATED CAVITY PANEL	
INSULATED CONCRETE WALL	
UNINSULATED CONCRETE WALL	

- NOTES:
- FOUNDATIONS AND FOOTINGS SHOWN ARE APPROXIMATE. ALL FOOTINGS TO BE BELOW FROST LEVEL PER LOCAL CODE REQUIREMENTS.
  - REFER TO FOUNDATION AND FRAMING PLANS, DETAILS AND SPECIFICATIONS FOR STRUCTURAL INFORMATION.



Project Name  
**MONADNOCK H4H**  
 Address GROVE STREET  
 City KEENE  
 State NH  
 Project Number PROJECT #  
 Date 03-23-2026  
 Drawn by SM  
 Project Team WH, SM, TE, EC

**BUILDING SECTIONS**

**A300**

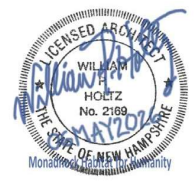
Scale AS NOTED

**FOR REVIEW**

© BENSON WOODWORKING CO., INC.

REVISION SCHEDULE		
No.	Description	Date
DEPT COMMENTS		5/06/2026

Stamp

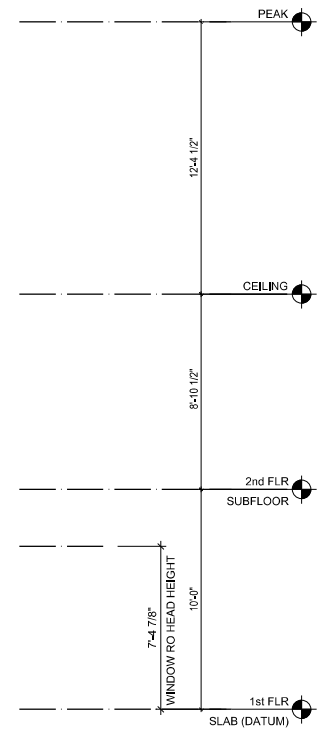
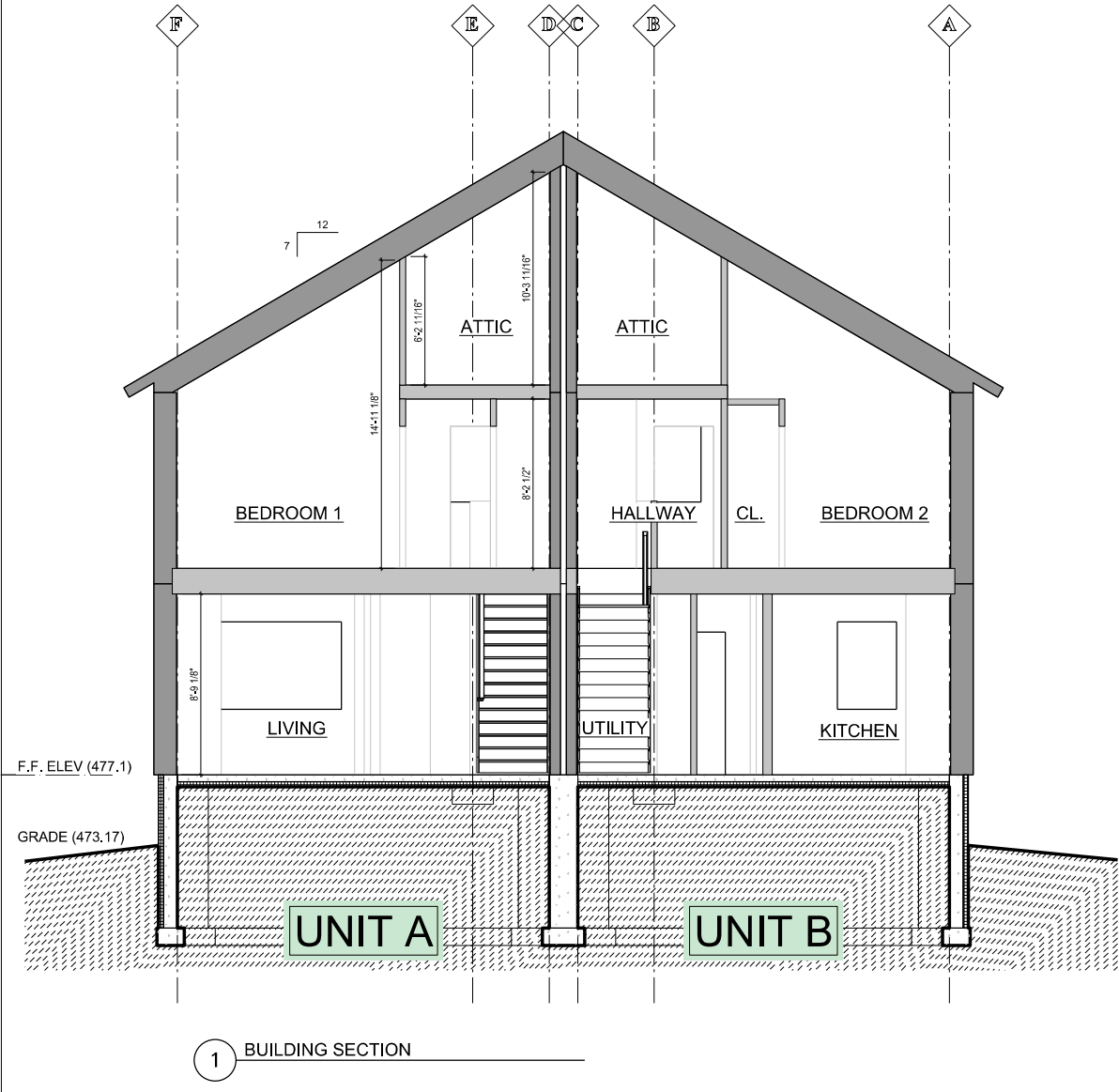
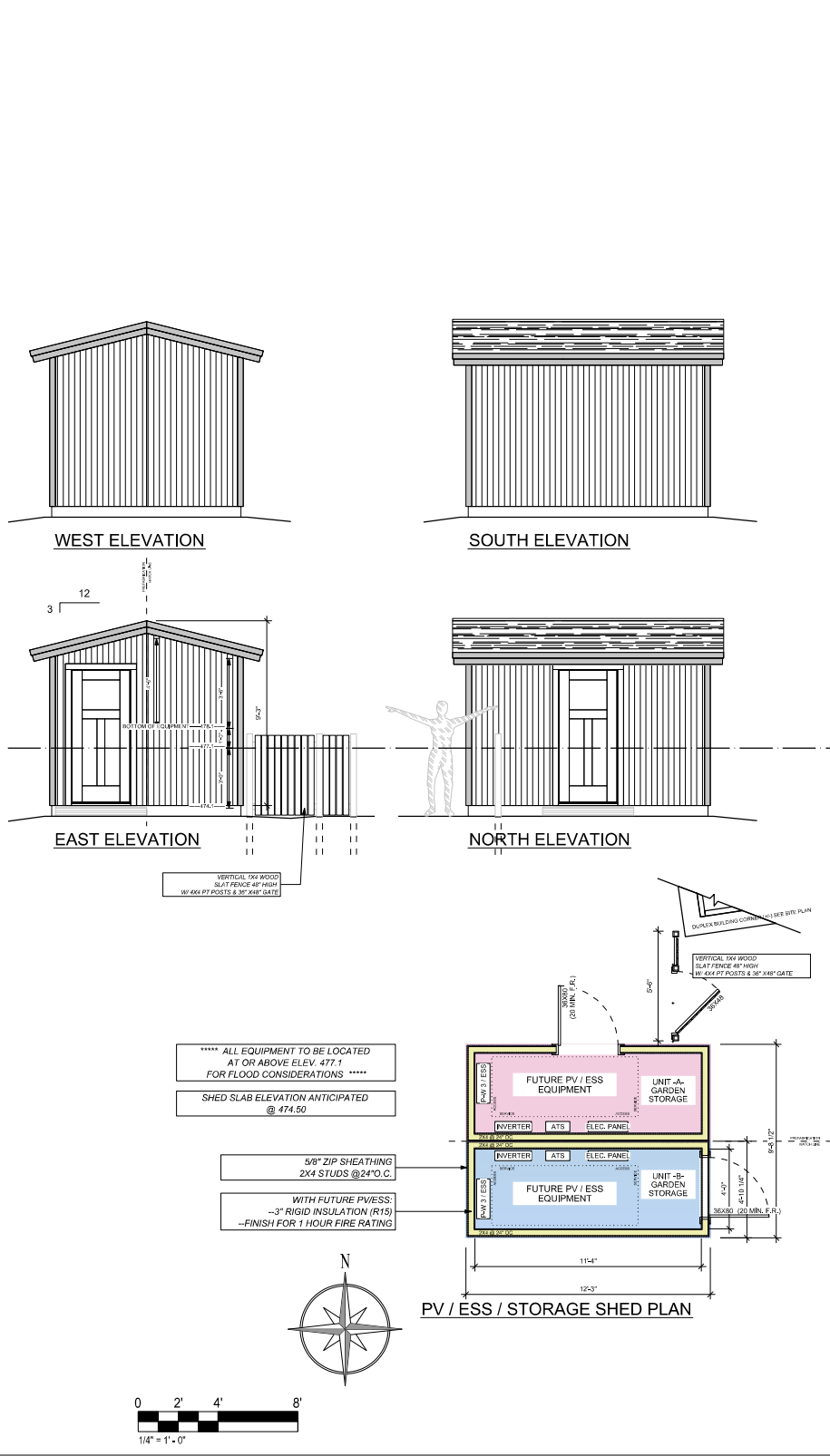


Project Name  
**MONADNOCK H4H**  
 Address GROVE STREET  
 City KEENE  
 State NH  
 Project Number PROJECT #  
 Date 03-23-2026  
 Drawn by SM  
 Project Team WH, SM, TE, EC

**BUILDING SECTIONS**

**A301**

Scale AS NOTED  
**FOR REVIEW**



**SECTION WALL TYPE LEGEND**

INSULATED PANEL	
UNINSULATED CAVITY PANEL	
INSULATED CONCRETE WALL	
UNINSULATED CONCRETE WALL	

- NOTES:
- FOUNDATIONS AND FOOTINGS SHOWN ARE APPROXIMATE. ALL FOOTINGS TO BE BELOW FROST LEVEL PER LOCAL CODE REQUIREMENTS.
  - REFER TO FOUNDATION AND FRAMING PLANS, DETAILS AND SPECIFICATIONS FOR STRUCTURAL INFORMATION.

**ZBA / PLANNING APPLICATION - 06MAY2026**



# CITY OF KEENE NEW HAMPSHIRE

ITEM #G.2.

**Meeting Date:** May 26, 2026

**To:** Planning Board

**From:** Evan Clements, Planner

**Through:** Mari Brunner, Senior Planner

**Subject:** **PB-26-9 - Froling Energy Site Modifications, Major Site Plan** – Applicant and owner 560 Main Street LLC proposes to create two curb cuts on Manchester St., demolish an existing ~590-sf building, replace the siding on the principal building, and improve an existing gravel area at 20 & 37 Manchester St. (TMP#s 114-012-000 & 114-003-000). The parcels are located in the Commerce & Industrial Districts.

---

**Recommendation:**

To review the attached staff report and application materials in preparation for the public hearing.

**Attachments:**

1. Staff Report
2. Application Materials
3. Narrative
4. Plan Set
5. Proposed Facade Changes
6. Access Easement Deed

**Background:**

The first subject parcel at 20 Manchester St is ~9.9 ac. in size and contains an existing biomass boiler installer and fuel provider. The second subject parcel at 37 Manchester St. is ~2 ac. in size and contains two existing warehouse buildings. This parcel was recently merged with 53 Manchester St. and abuts the 20 Manchester St parcel to the southeast. Both parcels are owned and operated by Froling Energy and utilized as part of their operation. Additionally, portions of the 20 Manchester St site will be offered to tenants for outdoor storage purposes. The purpose of this application is to update the site plan for Froling Energy by formalizing the operation over both parcels. This includes approval for a one-way cross site access drive, new street access for 37 Manchester St. with parking area, building façade refresh, and identified rental storage areas for 20 Manchester St. Lastly, the phase 2 site plan for 20 Manchester St. will be abandoned by the applicant as it is no longer needed.

# STAFF REPORT

## PB-26-9 – SITE PLAN REVIEW– FROLING ENERGY SITE MODIFICATIONS, 37 & 20 MANCHESTER ST

### **Request:**

Applicant & owner 560 Main Street LLC proposes modifications to the ~11.88-ac Froling site at 20 & 37 Manchester St (TMP#s 114-012-000 & 114-003-000), including a new street access on Manchester St, vehicular cross-access between the parcels, new siding on an existing structure, and minor site changes. The parcels are in the Commerce & Industrial Districts.

### **Background:**

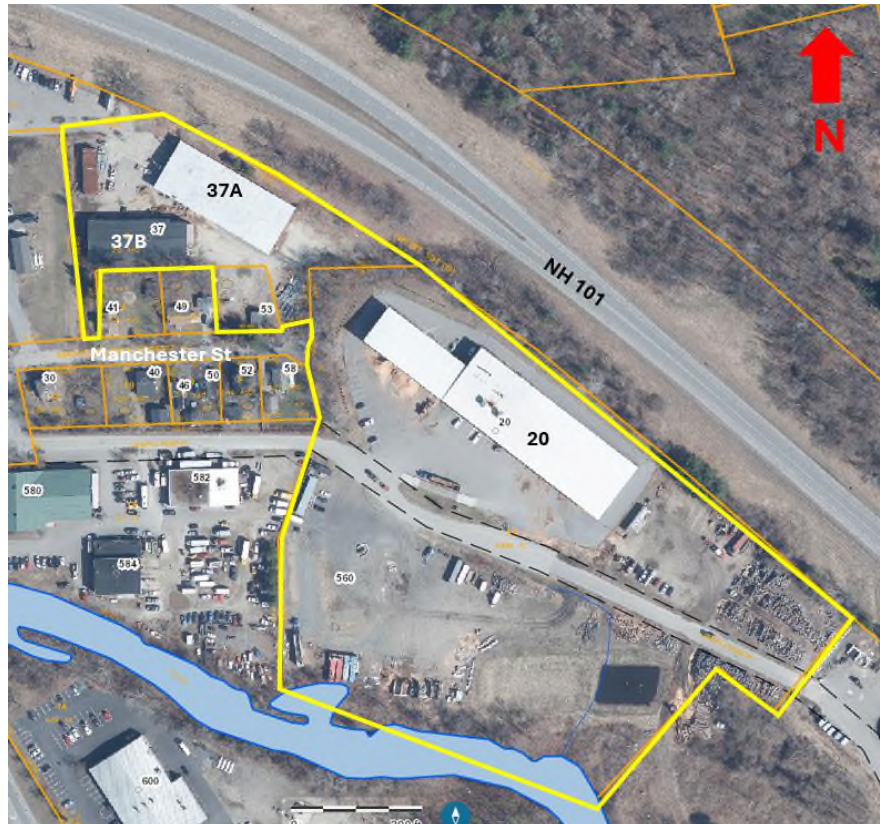
The first subject parcel at 20 Manchester St is ~9.9 ac. in size and contains an existing biomass boiler installer and fuel provider. The parcel is located directly south of NH 101 at the end of Manchester St. and is in the Industrial District. Access to the site is from Main Street via a 40-ft wide easement that connects to the west end of Manchester St.

The second subject parcel at 37 Manchester St. is ~2 ac. in size and contains two existing warehouse buildings. This parcel was recently merged with 53 Manchester St. and abuts the 20 Manchester St parcel to the southeast. Access to the lot is from

Main Street via an access easement that crosses over the adjacent property at 492 Main Street.

Both parcels are owned and operated by Froling Energy and utilized as part of their operation. Additionally, portions of the 20 Manchester St site will be offered to tenants for outdoor storage purposes.

The purpose of this application is to update the site plan for Froling Energy by formalizing the operation over both parcels. This includes approval for a one-way cross site access drive, new street access for 37 Manchester St. with parking area, building façade refresh, and identified rental storage areas for 20 Manchester St. Lastly, the phase 2 site plan for 20 Manchester St. will be abandoned by the applicant as it is no longer needed.



*Fig 1: Aerial of 37 & 20 Manchester St outlined in yellow*

# STAFF REPORT

## **Determination of Regional Impact:**

Staff have made a preliminary evaluation that the proposal does not appear to have the potential for “regional impact” as defined in RSA 36:55. The Board should determine whether the proposal could have the potential for regional impact.

## **Completeness:**

The applicant has requested an exemption from submitting a lighting plan, elevations, and all technical reports. After reviewing the exemption requests, staff have determined that granting these exemptions will have no bearing on the merits of the application and recommend that the Board accept the application as complete.

## **Application Analysis:**

- 21.2 **Drainage:** The applicant states that the existing drainage pattern will not be altered by the proposed changes to the property at 37 Manchester St. The proposed changes will result in a reduction in impervious surface and will allow more water on the site to infiltrate. No changes are proposed to 20 Manchester St. It appears this standard has been met.
- 21.3 **Sediment & Erosion Control:** Proposed erosion control measures include silt fencing and straw wattles installed according to best management practices. This standard appears to be met.
- 21.4 **Snow Storage & Removal:** There appears to be adequate locations on both properties for snow storage. The applicant notes that any excess snow will be trucked off site. This standard appears to be met.
- 21.5 **Landscaping:** Section 9.4.4 of the LDC requires that any parking area visible from the public ROW be screened with a perimeter landscape area (Figure 2). In addition, Section 9.4.5 requires one tree for every ten parking spaces. The applicant proposes to install five (5) American Sycamore trees around the new parking area on 37 Manchester St. with a 6-ft wooden stockade fence around the perimeter. The applicant requests that the Planning Board approve an alternative screening design for the proposed parking area per Section 9.4.4 of the LDC.

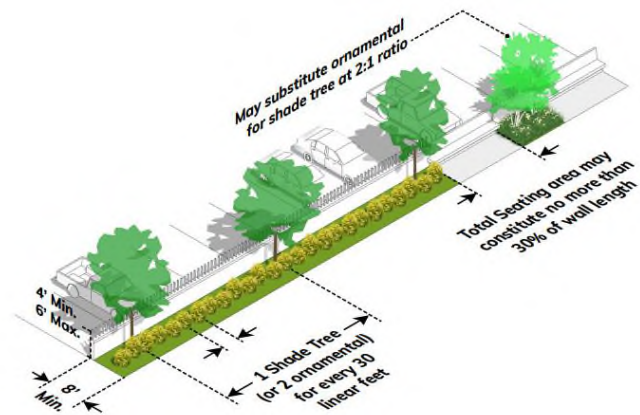


Figure 2. Graphic that illustrates the perimeter landscape requirements detailed in Section 9.4.4 of the Land Development Code.

The Board should consider the location of the parking area in relation to the neighborhood to determine if a wooden stockade fence, as proposed, provides sufficient screening. The Board will need to determine if this standard has been met.

## STAFF REPORT

- 21.6 **Screening:** The plan shows a 6 ft tall wooden fence around the southern perimeter of 37 Manchester St. This fence will screen the new parking area from the public right-of-way and abutting residential uses at 41 and 49 Manchester St. Existing vegetation will be maintained where practical to provide additional screening. A dumpster enclosure area is proposed adjacent to the warehouse at 37B Manchester St. and will be screened by the same wooden stockade fence material. This standard appears to be met.
- 21.7 **Lighting:** No new lighting is proposed with this application. This standard is not applicable.
- 21.8 **Sewer & Water:** No new water or sewer connections are proposed. This standard is not applicable.
- 21.9 **Traffic & Access Management:** The applicant proposes to install a 24-ft wide street access on Manchester St. where the former 53 Manchester St. house was located. The applicant states that this street access will be used for passenger vehicles and occasional box truck deliveries. Due to the narrow width of Manchester St., larger trucks will continue to use the easement over 492 Main St. to access the 37 Manchester St. property. A truck turning exhibit shows that the Keene Fire ladder truck can navigate the site.

A 12-ft wide connector between both subject properties is proposed to provide one-way access between the sites (Figure 3). The accessway is designed to conform with the requirements of section 9.4.2.A.1 of the LDC. The applicant states that this internal access should reduce the traffic on Manchester St associated with the Froling Energy operation transiting between the subject properties. This standard appears to be met.



Figure 3. Snippet taken from Exhibit A of the plan set that shows the proposed street access on Manchester St. and the 12-ft, one-way cross access between the 37 & 20 Manchester Street properties.

- 21.10 **Filling & Excavation:** The applicant states that minimal earthwork will be conducted for the new parking area on 37 Manchester St. No significant filling or excavation is proposed on either subject parcel. This standard appears to be met.

## STAFF REPORT

- 21.11 Surface Waters & Wetlands: There are no wetlands on 37 Manchester St. and no proposed work on 20 Manchester St. This standard is not applicable.
- 21.12 Hazardous & Toxic Materials: No hazardous or toxic materials are proposed with this application. This standard is not applicable.
- 21.13 Noise: There are no proposed changes to the operation of either subject parcel that would alter the existing noise pattern. The applicant notes that all surrounding parcels are zoned either Industrial or Commerce. This standard is not applicable.
- 21.14 Architecture & Visual Appearance: The applicant is proposing some minor façade changes for the 37A building by replacing the existing painted steel siding with vertical wood siding, as show in the submitted renderings. No additional changes are proposed.

### **Draft Motion Language:**

If the Board is inclined to approve this request, the following language is recommended for a motion:

**“Approve PB-26-9 as shown on the plan set prepared by SVE Associates at variable scales prepared on March 30, 2026 and last revised on May 7, 2026 with the following conditions:**

- 1. Prior to the final approval and signature of the plans by the Planning Board Chair, the following conditions precedent shall be met:**
  - a. Owner’s signature appears on the plans.**
  - b. Submittal of five (5) full sized paper copies and a flattened PDF version of the final plan set.**
  - c. Submittal of a security to cover the cost of landscaping and erosion/ sedimentation control in a form and amount acceptable to the Community Development Director.**
- 2. Subsequent to final approval and signature of the plans by the Planning Board Chair, the following conditions shall be met:**
  - a. Prior to the commencement of site work, all sediment and erosion control measures shall be installed and inspected by the Community Development Director or their designee.**
  - b. Following the installation of landscaping, the Community Development Department shall be contacted to perform an initial landscaping inspection.**
  - c. One year following the installation of all landscaping, the Community Development Department shall be contacted to perform a final landscaping inspection.**
  - d. Prior to the release of any financial security, the construction trailer located in the side yard setback of rental area #2 shall be moved out of the setback and verified by Community Development staff.”**



# City of Keene, NH Site Plan Application

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

## SECTION 1: PROJECT INFORMATION

<b>PROJECT NAME:</b> 20 & 37 Manchester Street Improvements		<b>TYPE OF APPLICATION BEING SUBMITTED:</b>
<b>PROJECT ADDRESS(ES):</b> 20 & 37 Manchester Street		<input checked="" type="checkbox"/> MAJOR PROJECT APPLICATION <input type="checkbox"/> MINOR PROJECT APPLICATION
<b>EXISTING OR PREVIOUS USE:</b> Tire Warehouse office & storage	<b>PROPOSED USE:</b> rental space, office & warehouse for Froling Energy	
<b>GROSS FLOOR AREA OF NEW CONSTRUCTION</b> (in square feet) 0	<b>GROSS FLOOR AREA OF EXISTING BUILDINGS/STRUCTURES</b> (in square feet) 26,920	
<b>AREA OF PROPOSED NEW IMPERVIOUS SURFACES</b> (in square feet) -5,000+/-	<b>TOTAL AREA OF LAND DISTURBANCE</b> (in square feet) 19,000+/-	

## SECTION 2: CONTACT INFORMATION

PROPERTY OWNER	APPLICANT
<b>NAME/COMPANY:</b> Mark Froling/560 Main Street LLC	<b>NAME/COMPANY:</b> same as owner
<b>MAILING ADDRESS:</b> 37A Manchester Street, Keene NH 03431	<b>MAILING ADDRESS:</b> 37A Manchester Street, Keene, NH 03431
<b>PHONE:</b> [REDACTED]	<b>PHONE:</b> [REDACTED]
<b>EMAIL:</b> [REDACTED]	<b>EMAIL:</b> [REDACTED]
<b>SIGNATURE:</b>	<b>SIGNATURE:</b>
<b>PRINTED NAME:</b> Mark Froling	<b>PRINTED NAME:</b> Mark Froling

AUTHORIZED AGENT (if different than Owner/Applicant)	FOR OFFICE USE ONLY:	
<b>NAME/COMPANY:</b> Liza Sargent, PE/SVE Associates	<b>TAX MAP PARCEL #(s):</b>	
<b>MAILING ADDRESS:</b> 439 West River Road Brattleboro VT 05302	-----	
<b>PHONE:</b> [REDACTED]	<b>PARCEL SIZE:</b>	<b>DATE STAMP:</b>
<b>EMAIL:</b> [REDACTED]	<b>ZONING DISTRICT:</b>	
<b>SIGNATURE:</b> Liza Sargent <small>Digitally signed by Liza Sargent Date: 2026.03.30 13:44:17 -04'00'</small>	<b>PROJECT #:</b>	
<b>PRINTED NAME:</b> Liza Sargent, PE		

## SECTION 3: APPLICATION SUBMISSION REQUIREMENTS

**A COMPLETE APPLICATION MUST INCLUDE THE FOLLOWING ITEMS. APPLICATION MATERIALS MUST BE SUBMITTED BOTH PHYSICALLY & DIGITALLY AS OUTLINED IN THE ATTACHED DOCUMENTS.**

- **Email:** communitydevelopment@keenenh.gov, with “Planning Board Application” in the subject line
- **Mail / Hand Deliver:** Community Development (4th Floor), Keene City Hall, 3 Washington St, Keene, NH 03431

The submittal requirements for Planning Board applications are outlined further in **Article 21** and **Article 26.12** of the [Land Development Code \(LDC\)](#). You may request an exemption from providing any of the items below, except the application fee, notice list, narrative, and mailing labels. The Community Development Director may grant an exemption, if it is determined that the scope of the project does not warrant the submittal.

*Note: Additional information may be requested by the respective decision-making authority during the review process.*

### GENERAL SUBMITTAL REQUIREMENTS

**CERTIFIED NOTICE LIST** (See **Attachment A** for more information.)

**2 SETS OF MAILING LABELS** (See **Attachment A** for more information.)

**PROJECT NARRATIVE** (See **Section 1 of Attachment B** for more information.)

**FEES:** Fill in the information below to calculate the total fee.

\$250 base fee  
 \$0.05 per-sf of new construction x 0 sf of new construction  
 \$62 legal ad fee  
 34.56 current USPS certificate of mailing rate x 19 abutters  
 = 346.56 (TOTAL FEE)

**NOTE:** Please call the Community Development Department for the current certificate of mailing rate. Checks should be made payable to the *City of Keene*. Credit card payments are accepted in-person or by calling 603-352-5440.

**WAIVERS** (See **Section 2 of Attachment B** for additional information.)

- WAIVER(S) REQUESTED**  
 **NO WAIVER(S) REQUESTED**

PLAN SETS (See Attachment C for additional information.)	SUBMITTED	EXEMPTION REQUESTED
LOCATION MAP OF PROPOSED IMPROVEMENTS	✓	
EXISTING CONDITIONS PLAN	✓	
PROPOSED CONDITIONS PLAN	✓	
GRADING PLAN	✓	
LANDSCAPING PLAN	✓	
LIGHTING PLAN		✓
ELEVATIONS		✓
TECHNICAL REPORTS (See Attachment C for additional information.)	SUBMITTED	EXEMPTION REQUESTED
DRAINAGE REPORT		✓
TRAFFIC ANALYSIS		✓
SOIL ANALYSIS		✓
HISTORIC EVALUATION		✓
SCREENING ANALYSIS		✓
ARCHITECTURAL & VISUAL APPEARANCE ANALYSIS		✓
OTHER REPORTS / ANALYSES		✓

ATTACHMENT A: CERTIFIED NOTICE LIST INSTRUCTIONS

City of Keene, NH

Community Development Department
Certified Notice List



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

Per Article 26.2.4 of the Land Development Code (LDC) and in accordance with state law, certain Zoning Board of Adjustment (ZBA), Planning Board, and Historic District Commission (HDC) applications require mailed notice.

The following parties are required to be noticed as part of the application process:

- Property owner
-Project applicant
-Authorized agent (if applicable)
-All direct property abutters (including those across water bodies and roads), as well as all properties within 200-ft of the subject parcel
-Every engineer, architect, land surveyor, or soil scientist whose professional seal appears on any plan
-Holders of conservation, preservation, or agricultural preservation restrictions on the property

\*Note: Only direct abutters must be noticed as part of HDC applications.

For these applications, the following items must be submitted:

- A list of all persons entitled to notice
-2 sets of mailing labels
-Notice certification form
-Mailing fee (current USPS certificate of mailing rate\* x number of abutters)

\*Please call the Community Development Department for the current certificate of mailing rate.

The notice list shall include the following information:

- Property owner's name
-Property owner's mailing address
-Property owner's street address,
-The tax map parcel (TMP) number(s) (15-digit number)

The mailing labels shall include the following information:

- Property owner's name
-Property owner's mailing address
-The tax map parcel (TMP) number(s)

The City of Keene's GIS Database (axisgis.com/keenenh/) can be used to generate an abutters list and mailing labels.

PLEASE MAKE SURE THAT ALL PARTIES INCLUDED ON THE NOTICE LIST ARE ALSO INCLUDED ON THE MAILING LABELS.

CERTIFICATION OF ACCURACY

By signing below, you are certifying that the submitted notice list is accurate and true to the best of your ability and that per Article 26.2.4.A.3 of the LDC, the notice list is current to within 10 days of the application submittal.

Liza Sargent

3/30/26

Print Name

Date

Liza Sargent

Digitally signed by Liza Sargent
Date: 2026.03.30 13:44:42 -04'00'

Signature

**NOTICE LIST**

**This template can be used to record the name, mailing address, street address, and tax map parcel (TMP) # for each party that is required to be noticed as part of an application.**

<b>OWNER NAME</b>	<b>MAILING ADDRESS</b>	<b>STREET ADDRESS (If different from mailing address)</b>	<b>TAX MAP PARCEL (TMP) #</b>
MONRO MUFFLER BRAKE INC C/O BADEN TAX MANAGEMENT LL	6920 POINTE INVERNESS WAY STE. 301 FORT WAYNE. IN 46804	<b>492 MAIN ST.</b>	<b>112-007-000</b>
522 MAIN STREET KEENE LLC	24 HARRIMAN DR. AUBURN, ME 04210	522 MAIN ST. & 526 MAIN ST.	112-008-000,114-001-000
<b>CARSEL INC</b>	540 MAIN ST. KEENE, NH 03431		<b>114-002-000</b>
ELLITHI MELISSA ELLITHI TAREK	41 MANCHESTER ST KEENE, NH 03431		<b>114-004-000</b>
HIE SYLVIA N YAP YOPI H	49 MANCHESTER ST KEENE, NH 03431	<b>53 MANCHESTER ST.</b>	<b>114-005-000</b>
560 MAIN STREET LLC	37A MANCHESTER ST KEENE, NH 03431	37A MANCHESTER ST, 20 MANCHESTER ST	114-006-000, 114-012-000
<b>AMER DAWN M</b>	58 MANCHESTER ST KEENE, NH 03431		<b>114-007-000</b>
TINKER DIANE E. TINKER TARA M.	52 MANCHESTER ST. KEENE, NH 03431		<b>114-008-000</b>
ELLIS, TODD W. ELLIS IRENE J.	617 WEST SWANZEY RD. SWANZEY, NH 03446	<b>46-50 MANCHESTER ST.</b>	<b>114-009-000</b>
LABELLE OLIVIA LABELLE KYLE	40 MANCHESTER ST KEENE, NH 03431		<b>114-010-000</b>
MACKEY FRANCIS W. MACKEY PATRICIA J.	30 MANCHESTER ST. KEENE, NH 03431		<b>114-011-000</b>
580 MAIN STREET LLC	PO BOX 177 CHESTERFIELD, NH 03443	<b>580-584 MAIN ST.</b>	<b>114-013-000</b>
Suzanne C. Burbank	41 Boston Pl. Keene, NH 03431		<b>112-002-000</b>
<b>City of Keene</b>	3 Washington St, Keene, NH 03431		112-006-000 & 113-007-000
<b>Markem Corp.</b>	150 Congress St, Keene, NH 03431		<b>598-002-000</b>
Amalgamated Squash C & D Corp.	68 Timberlane Dr., Keene, NH 03431	<b>80 Martin Street</b>	<b>598-002-000</b>
Northern NE Telephone Operations LLC	attn: Tax Dept., 770 Elm St, Manchester, NH 03101	<b>150 Congress Street</b>	<b>598-002-000</b>
Liza Sargent/SVE Associates	439 West River Rd, Brattleboro, VT 05302		<b>engineer</b>
Huntley Survey & Design, PLLC	659 West Road, Temple, NH 03084		<b>land surveyor</b>

Project Narrative  
**20 & 37 Manchester Street Improvements**  
**20 & 37 Manchester Street**  
**Owner/Applicant: 560 Main Street LLC**

March 17, 2026

*Revised May 7, 2026*

SVE Associates, on behalf of the applicant, 560 Main Street LLC, is submitting this *revised* Major Site Plan Application to create access to the site from both Manchester Street, and parcel 114-012, owned by 560 Main Street LLC, to improve the existing gravel areas on site, and remove an existing single story 590 sf building.

The new access from Manchester Street will function for passenger vehicles and residential delivery service vehicles (USPS, UPS, FedEx, etc.) All deliveries using large over the road tractor trailers or specialized vehicles will continue to use the existing entrance off Route 12/Main Street.

The second proposed access is strictly for movement between this parcel (114-003) and the abutting parcel (114-012), both parcels are owned by 560 Main Street LLC.

The other reason for the site plan application is to remove phase II from 20 Manchester Street's approved site plan and include the rental areas. *The office on rental space #2 will be relocated to outside the front setback.*

The proposed plan complies with all City Development Standards:

1. Drainage & Stormwater Management:

No proposed changes to drainage or stormwater. 37 Manchester will have a reduction in impervious surfaces. Stormwater will maintain existing drainage patterns.

2. Sediment/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 the Sheet N-1 and details on Sheet C-2.

## SVE Associates

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# SVE Associates

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Engineering •

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Surveying

3. Snow Storage and Removal:

Snow storage is proposed on site, if snowfall exceeds available snow storage, snow will be trucked offsite.

4. Landscaping:

*Five trees are proposed to be installed for the additional parking spaces. A waiver request is being requested for landscaping of the new parking lot (Section 9.4.4 of the LDC). No shrubs are proposed.*

5. Screening:

*Existing vegetation, proposed trees and the proposed wooden fence will be maintained for screening. Perimeter of parking lot adjacent to a residential zoning district and/or a public right of way, is 36 feet, and 1 shade tree is required per 30 lf of perimeter parking lot landscape area, therefore two trees are required.*

6. Lighting:

No additional lighting is proposed.

7. Sewer and Water:

The site is supplied with City water and sewer connect, no change in the current use is proposed.

8. Traffic and Access Management:

No additional traffic is expected. The access between 20 and 37 Manchester Street will be for Froling Energy's use, to help alleviate traffic between the two properties on Manchester Street. Large Truck traffic to 37 Manchester Street will continue to use the right-of-way from Main Street. Passenger vehicles will be able to access 37 Manchester Street directly from Manchester Street.

9. Filling and Excavation:

Minimal grade changes proposed.

10. Surface Waters and Wetlands:

There are no water or wetlands on the parcel.

## SVE Associates

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Engineering •

Planning •

Surveying

439 West River Road, P.O. Box 1818, Brattleboro, VT 05302

Phone: (802) 257-0561

# SVE Associates

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Engineering

• Planning

• Surveying

11. Hazardous and Toxic Materials:

Not applicable.

12. Noise:

There will be no additional noise, the parcel is zoned commerce and surrounding parcels are commerce, and industrial.

13. Architecture and Visual Appearance:

No proposed buildings, however, the owner would like to improve the siding on building 37A. See attached exhibit showing existing painted steel siding and proposed wood siding vertical board and batten.

**Waiver Request:**

*A waiver is requested under section 9.4.4. of the Land Development Code from providing landscaping for the new 37 Manchester Street parking area along the south side near the public right-of-way.*

- a) Granting the waiver is not contrary to the spirit and intent of the regulations because the parking area will not be visible from Manchester Street because of the proposed 6-foot-tall wooden fence.*
- b) Granting the waiver will not increase the potential for creating adverse impacts to abutters, the community or the environment. This parking area will not be visible to the community or to abutters and will be well screened with the proposed wooden fence.*
- c) Granting the waiver has not been shown to diminish property values of abutting properties. The properties to the south of the 37 Manchester Street proposed parking area are residential buildings on Manchester Street. The proposed wooden fence will provide a year-round screen and buffer of the proposed parking area. To the east of the proposed parking area is land owned by the applicant. The area to the west is zoned commerce but will also be screened by the proposed wooden fence. The area to the north will be blocked from the general public's view by the existing building and existing vegetation. There are no adjacent properties adversely affected by this proposal.*
- d) Strict conformity with the regulations or the Development Standards will pose an unnecessary hardship to the owner. There is no reason to plant trees and shrubs in areas where they will not be visible to the public or to adjacent properties.*

**SVE Associates**

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Engineering

• Planning

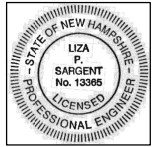
• Surveying

439 West River Road, P.O. Box 1818, Brattleboro, VT 05302

Phone: (802) 257-0561

# 20 & 37 MANCHESTER STREET IMPROVEMENTS

20 & 37 MANCHESTER STREET, KEENE, NEW HAMPSHIRE



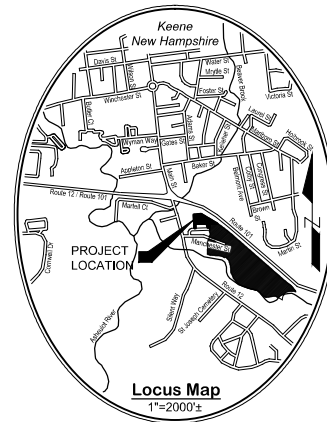
*Liza Sargent* 5/7/26

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

OWNER & APPLICANT:

## 560 MAIN STREET, LLC

20 & 37 MANCHESTER STREET  
KEENE, NEW HAMPSHIRE 03431  
(603) 520-6272



### INDEX OF PLANS

- N-1 NOTES & LEGEND
- 1 of 1 EXISTING CONDITIONS PLAN
- C-1 SITE PLAN
- C-2 CONSTRUCTION DETAILS
- A RENTAL AREA EXHIBIT
- B TURNING MOVEMENT-KEENE LADDER TRUCK
- C TURNING MOVEMENT-BOX TRUCK

SVE PROJECT #: K2665-01

PREPARED BY

Land Surveyor:

**Huntley Survey  
& Design, PLLC**

659 West Road  
Temple, NH 03084  
PHONE (603) 924-1669

Civil Engineer:

**SVE Associates**

439 West River Road  
P.O. Box 1818  
Brattleboro, VT 05302  
PHONE (802) 257-0561

March 30, 2026  
revised thru May 7, 2026

APPROVED BY THE OWNER OR APPLICANT

\_\_\_\_\_ DATE \_\_\_\_\_

APPROVED BY THE KEENE PLANNING BOARD

ON \_\_\_\_\_

CERTIFIED BY CHAIRMAN \_\_\_\_\_

CHECKED: LPS

GENERAL CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL CALL DIG-SAFE, AT 1-888-344-7233 AT LEAST 72 HOURS BEFORE THE START OF EXCAVATION.
2. THE CONTRACTOR IS EXPECTED TO BE AWARE OF AND COMPLY WITH ALL PERMITS AND PERMIT CONDITIONS.
3. ALL TRENCHING, EXCAVATION, SHEETING, SHORING, ETC. SHALL COMPLY WITH THE MOST CURRENT OSHA REGULATIONS.
4. THE CONTRACTOR SHALL NOTIFY SVE ASSOCIATES IF FIELD CONDITIONS VARY FROM THAT SHOWN ON THE PLAN(S).
5. 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.
6. IN CASE OF CONFLICTS, THE MOST STRINGENT INTERPRETATION OF THE PLANS, SPECIFICATIONS, LOCAL OR STATE REGULATIONS, OR PERMIT CONDITIONS SHALL APPLY.
7. ALL KNOWN SUBSURFACE UTILITIES AND STRUCTURES HAVE BEEN INDICATED ON THE PLAN(S) AS ACCURATELY AS POSSIBLE.
8. CONTRACTOR SHALL VERIFY ALL BENCH MARKS, INVERTS, PIPES AND STRUCTURES ELEVATIONS PRIOR TO START OF WORK.
9. ALL SURFACES SHALL BE GRADED TO DRAIN.

SEDIMENT AND EROSION CONTROL

- 1. 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.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION CONTROL. THEY 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.
3. 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 SOILS ARE WELL STABILIZED.
4. SEED, FERTILIZE & MULCH ALL FINISH GRADED AREAS WITHIN 72 HOURS OF FINISH GRADING.
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.
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.
13. LIMIT THE AREA OF DISTURBANCE TO SMALLEST PRACTICAL AREA.

WINTER CONSTRUCTION REQUIREMENTS:

- 1. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND 1) INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, OR 2) PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING.
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE WORK HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL MEETING NHDOT ITEM 304.3 SPECIFICATIONS.

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.
3. SEEDING OF ALL DISTURBED AREAS SHALL BE COMPLETED NOT LATER THAN OCTOBER 15TH.
4. SEEDING OF ALL FINISHED AREAS SHALL BE COMPLETED NOT MORE THAN 72 HOURS AFTER FINISH GRADING.
5. STABILIZATION OF ALL WORK AREAS SHALL BE COMPLETED NOT MORE THAN 45 DAYS FOLLOWING THE START OF WORK.
6. STABILIZE ALL DRAINAGE SWALES PRIOR TO DIRECTING RUNOFF TO THEM.

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 THE STABILIZED CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF SEDIMENT OFFSITE.
3. CLEAR AND GRUB THE DRIVEWAY CORRIDOR.
4. CONSTRUCT ACCESS DRIVE IN ACCORDANCE WITH APPROVED PLANS.
5. CLEAR & GRUB PARKING AREA. CONSTRUCT NEW PARKING LOT.
6. LOAM AND SEED DISTURBED AREAS, STABILIZE SLOPES WITH MATTING WHERE SPECIFIED.
7. REMOVE SILT FENCE AFTER ALL UPHILL SOILS ARE STABILIZED.

DUST CONTROL:

DUST CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION.

- 1. PHASE CONSTRUCTION AND SEQUENCE EARTH DISTURBANCE ACTIVITIES TO REDUCE THE AREA OF LAND DISTURBED AT ANY ONE TIME.
2. MAINTAIN AS MUCH NATURAL VEGETATION AS IS PRACTICABLE.
3. USE TRAFFIC CONTROL TO RESTRICT TRAFFIC TO PREDETERMINED ROUTES.
4. USE TEMPORARY MULCHING, PERMANENT MULCHING, TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER TO REDUCE THE NEED FOR DUST CONTROL.
5. APPLY WATER, OR OTHER DUST INHIBITING AGENTS OR TACKIFIERS, AS APPROVED BY THE NHDES.

PERMITS REQUIRED:

- 1. CITY OF KEENE, SITE PLAN REVIEW
2. CITY DEMOLITION PERMIT

PROPERTY OWNER & APPLICANT:

560 MAIN STREET, LLC
20 MANCHESTER STREET
KEENE, NH 03431



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.
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 ROUTE SHALL CONNECT A.D.A. ACCESSIBLE BUILDINGS, ACCESSIBLE ELEMENTS AND FACILITIES (MAILBOXES, TRASH 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 NOT EXCEED 1:20 (5%).
8. CURB RAMP FLARES SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
9. MAXIMUM CROSS-SLOPE ALONG ANY PORTION OF THE ACCESSIBLE ROUTE SHALL NOT EXCEED 1:50 (2%).
10. 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.
13. MAXIMUM SLOPE OF ANY RAMP SHALL BE 1:12 (8.33%).
14. 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.
15. RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP. LANDINGS SHALL BE AS WIDE AS THE RAMP AND AT LEAST 60 IN. LONG.
16. OUTDOOR RAMPS AND THEIR 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.

STABILIZATION DEFINITION:

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

- 1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
2. A MINIMUM OF 85% VEGETATED COVER HAS BEEN ESTABLISHED IN A MANNER THAT IS EVENLY DISTRIBUTED OVER THE SITE, WITH NO LARGE AREAS OF BARE SOIL;
3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED;
4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED IN ACCORDANCE WITH ENV-WQ 1506.03.

SEED SPECIFICATIONS

TEMPORARY SEED

PERENNIAL RYE GRASS

PERMANENT SEED:

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

- CREEPING RED FESCUE 40 LB/AC
PERENNIAL RYEGRASS 50 LB/AC
KENTUCKY BLUEGRASS 25 LB/AC
REDTOP 5 LB/AC

TOTAL: 120 LB/AC

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 3 LB/AC

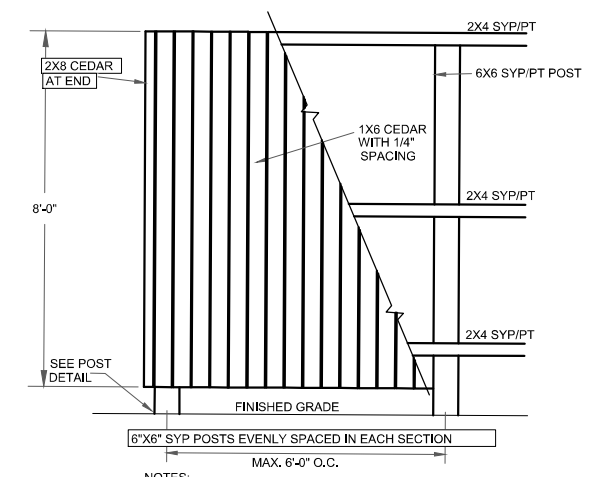
TOTAL: 95 LB/AC

LEGEND

- HYDRANT
EXISTING CATCH BASIN
PROPOSED CATCH BASIN
CULVERT END SECTION
SEWER MANHOLE
GATE VALVE
DRAIN MANHOLE
HANDICAP PARKING
LIGHT POLE
SEWER LINE
WATER LINE
STORM DRAIN LINE
SILT FENCE
100 YEAR FLOODPLAIN BOUNDARY
WETLAND BOUNDARY
SIGN
UN.O. UNLESS NOTED OTHERWISE
N.I.C. NOT IN CONTRACT
T.B.R. TO BE REMOVED
O.A.E. OR APPROVED EQUAL
S.C.E. STABILIZED CONSTRUCTION ENTRANCE
I.C.C. INTEGRAL CONCRETE CURB
V.C.C. VERTICAL CONCRETE CURB
V.G.C. VERTICAL GRANITE CURB
T.D. TIP-DOWN

37 MANCHESTER SITE DATA TABLE

Table with columns for TAX MAP #, ZONE, LOT SIZE, FRONTAGE, BLDG. HEIGHT, BUILDING SETBACKS, LOT COVERAGE, BUILDINGS, TOTAL IMPERMEABLE, PARKING, LANDSCAPING, and PROPOSED values.

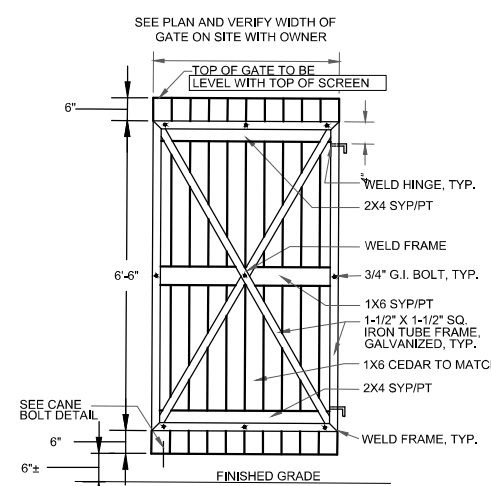


NOTES:
1. ALL CEDAR TO BE ROUGH FINISH, FREE OF UNSOUND KNOTS.
2. ALL POSTS TO BE SYP/PT
3. USE ONLY HOT DIPPED GALVANIZED NAILS AND HARDWARE.

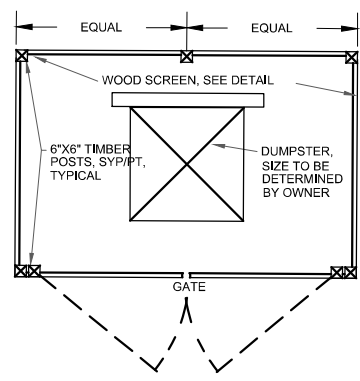
WOOD DUMPSTER ENCLOSURE



NOTES:
1. ALL WOOD POSTS TO BE PRESSURE TREATED, FREE FROM EXCESSIVE CRACKS, CHIPS, WARPS OR KNOTS.
2. ALL FASTENERS TO BE HOT DIPPED GALVANIZED.
3. WOOD SCREEN MEMBERS AND GATES TO CONFORM TO DETAIL ELEVATION AS NOTED.
4. DIMENSIONS OF ENCLOSURE TO BE DETERMINED BY OWNER PRIOR TO FABRICATION OR CONSTRUCTION.



METAL FRAME WOOD GATE ELEVATION NO SCALE



NOTES:
1. ALL WOOD POSTS TO BE PRESSURE TREATED, FREE FROM EXCESSIVE CRACKS, CHIPS, WARPS OR KNOTS.
2. ALL FASTENERS TO BE HOT DIPPED GALVANIZED.
3. WOOD SCREEN MEMBERS AND GATES TO CONFORM TO DETAIL ELEVATION AS NOTED.
4. DIMENSIONS OF ENCLOSURE TO BE DETERMINED BY OWNER PRIOR TO FABRICATION OR CONSTRUCTION.

WOOD DUMPSTER ENCLOSURE NO SCALE

Professional Engineer seal for Liza P. Sargent, No. 13365, State of New Hampshire. Signature of Liza Sargent, dated 5/7/26.

Revision table with columns for NO., DATE, REVISION, and COMMENTS. Includes revision 1 dated 07-MAY-26.

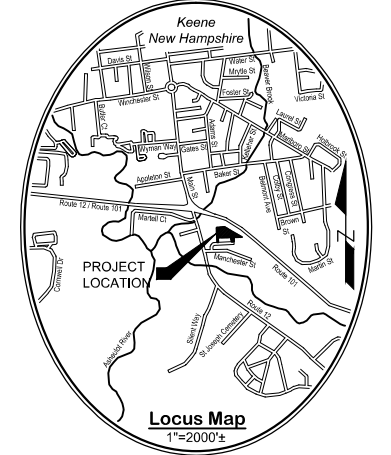
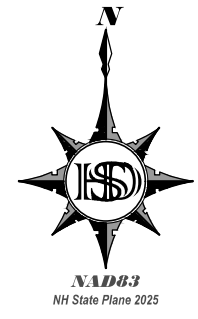
SVE Associates logo and contact information: Engineering, Planning, Landscape Architecture, Surveying. Address: P.O. Box 1818, 439 West River Road, Brattleboro, VT 05302.

NOTES & LEGEND section with address: 560 MAIN STREET, 37 MANCHESTER ST, KEENE, NEW HAMPSHIRE, 560 MAIN STREET, LLC.

Project information: PROJ. # K2665-01, DATE: 30-MAR-26, DESIGN: LPS, DRAWN: AJG, CHECKED: LPS, SHEET N-1.

P:\Project\NH PROJECTS\K2665-01 Framing Energy\37 Manchester S\DWG\Design\K2665-01 SITE rev 5-4-2026.dwg 5/7/2026 12:30:13 PM\_AutoCAD PDF (General Documentation).pc3
Drawing name: P:\Project\NH PROJECTS\K2665-01 Framing Energy\37 Manchester S\DWG\Design\K2665-01 SITE rev 5-4-2026.dwg May 07, 2026 - 12:30pm

**Zoning Districts**  
**ZONE:COM (Commerce)**  
 MAX HEIGHT 3 STORIES/4'  
 LOT SIZE 15,000 sf  
 FRONTAGE 50'  
 BUILDING SETBACKS  
 FRONT 20'  
 SIDE 20'  
 REAR 20'  
 MAX BUILDING COVERAGE 80%  
 MAX IMPERMEABLE COVERAGE 80%  
 SEE CITY OF KEENE CODE CONCERNING  
 ADDITIONAL REQUIREMENTS PERTAINING TO  
 PARCEL



**Plan References**

- REFERENCES INCLUDE ALL INFORMATION REFERRED TO ON ANY OF THE FOLLOWING PLANS
- TWO LOT SUBDIVISION OF TAX MAP 306-22-007-0000, 580 MAIN STREET, PREPARED FOR CITY OF KEENE, DATED FEBRUARY 28, 2004; BY ROGER MONSELL, CLOUGH HARBOUR & ASSOCIATES (Cab.12 Dr.10 No.178 CCRD)
  - STATE OF NEW HAMPSHIRE, PLANS OF PROPOSED FEDERAL AID URBAN PROJECT U 013-1(6), NH PROJECT NO. P-3435-C, ASBUILT PLANS, DATED 4/5/1963 OBTAINED FROM NHDOT ONLINE PROJECT CENTER.
  - SUBDIVISION PLAT PREPARED FOR TIRE WAREHOUSE CENTRAL, INC, DATED DECEMBER 15, 1987, BY DAVID A. MANN (Cab.10 Dr.00 No.128 CCRD & Cab.9 Dr.00 No.159)
  - TWO LOT SUBDIVISION PLAN, LAND OF THE CITY OF KEENE, DATED 9/13/19, BY RUSSELL J. HUNTLEY, HUNTLEY SURVEY & DESIGN, PLLC (Plan 19116-8 CCRD)

**Notes**

- NORTH ORIENTATION:** NORTH SHOWN ON THIS PLAN IS REFERENCED TO NAD83 NH STATE PLANE GRID, BASED ON A STATIC GPS SURVEY PERFORMED IN CONJUNCTION WITH PLAN REFERENCE NO.4. NORTH IS SHOWN ONLY TO DEFINE ANGULAR RELATIONSHIPS.
- BOUNDARY LINES:** THE BOUNDARY LINES SHOWN ON THIS PLAN WERE CALCULATED FROM DEEDS, RECORD PLANS, AND PHYSICAL EVIDENCE FOUND DURING THE FIELD SURVEY.
- TOPOGRAPHY:** TOPOGRAPHY SHOWN ON THIS PLAN WAS DEVELOPED FROM AN ACTUAL FIELD SURVEY BY HUNTLEY SURVEY & DESIGN, PLLC PERFORMED DURING THE MONTH OF SEPTEMBER 2025. THE VERTICAL DATUM IS NAVD88. CONTOUR INTERVAL IS ONE (1) FOOT.
- UNDERGROUND UTILITIES DISCLAIMER:** ANY UNDERGROUND UTILITIES, STRUCTURES, AND FACILITIES SHOWN HAVE BEEN PLOTTED BASED ON FIELD SURVEY OF SURFACE LOCATIONS AND AVAILABLE DATA FROM PRIOR MAPS AND RECORDS. THEIR EXISTENCE AND LOCATIONS MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST THAT WERE UNKNOWN OR NOT INVESTIGATED AT THE TIME OF SURVEY. ALL UTILITY SIZES AND LOCATIONS MUST BE VERIFIED PRIOR TO ANY CONSTRUCTION. CALL DIG-SAFE BEFORE DIGGING.
- WETLANDS:** A SITE INSPECTION FOR THE PRESENCE OF JURISDICTIONAL WETLANDS WAS PERFORMED BY HUNTLEY SURVEY & DESIGN DURING THE MONTH OF SEPTEMBER 2025. JURISDICTIONAL WETLANDS WERE NOT FOUND.
- FEMA FLOOD ZONE:** THE PARCELS SHOWN ARE CURRENTLY GRAPHICALLY LOCATED IN ZONE X AND ARE NOT WITHIN A SPECIAL FLOOD HAZARD AREA, SEE FEMA PANEL 33005C0267E EFFECTIVELY DATED MAY 23, 2006. NOTE THAT PRELIMINARY FLOOD MAP CHANGES INDICATE PORTIONS OF THE PROJECT SITE ARE TO BE INCLUDED IN ZONE AE

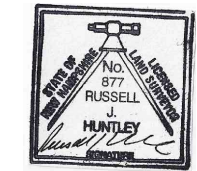


**Surveyor's Certification**

PURSUANT TO RSA 676:18, III AND RSA 672:14, I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PRODUCED BY ME OR UNDER MY DIRECT SUPERVISION FROM A TOTAL STATION AND DATA COLLECTOR TRAVERSE, WITH A POSITION TOLERANCE THAT MEETS OR EXCEEDS NH LAM 500 STANDARDS AND THE ALLOWABLE RELATIVE POSITIONAL ACCURACY REQUIRED BY THE STATE OF NEW HAMPSHIRE IN TABLE 500.1. ACCURACY MEASUREMENTS, LOCAL ACCURACY OF CONTROL SUPPORTING THE SURVEY. THIS SURVEY IS BASED ON:  
 A. INFORMATION RECORDED AT THE CHESHIRE COUNTY REGISTRY OF DEEDS AS REFERENCED HEREON.  
 B. INFORMATION PROVIDED BY THE CLIENT, AND  
 C. PHYSICAL EVIDENCE FOUND DURING THE FIELD SURVEY.

**BOUNDARY SURVEY CERTIFICATION**

PURSUANT TO RSA 676:18, III AND RSA 672:14, I FURTHER CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION AS DEFINED BY THIS TITLE, AND THAT ALL LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED. NO NEW STREETS OR WAYS ARE SHOWN ON THIS PLAT.



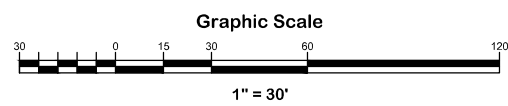
**Existing Conditions Plan of Land**

OF  
**560 Main Street, LLC**  
 located at  
 Tax Map 114 Lot 3  
 37 Manchester Street, Keene, Cheshire County, New Hampshire  
 Book 3299, Page 950

Surveyed 09/2025 Plan prepared 10/02/2025  
 Project No. H25-053 Cad File No. H25-053 Excon.dwg

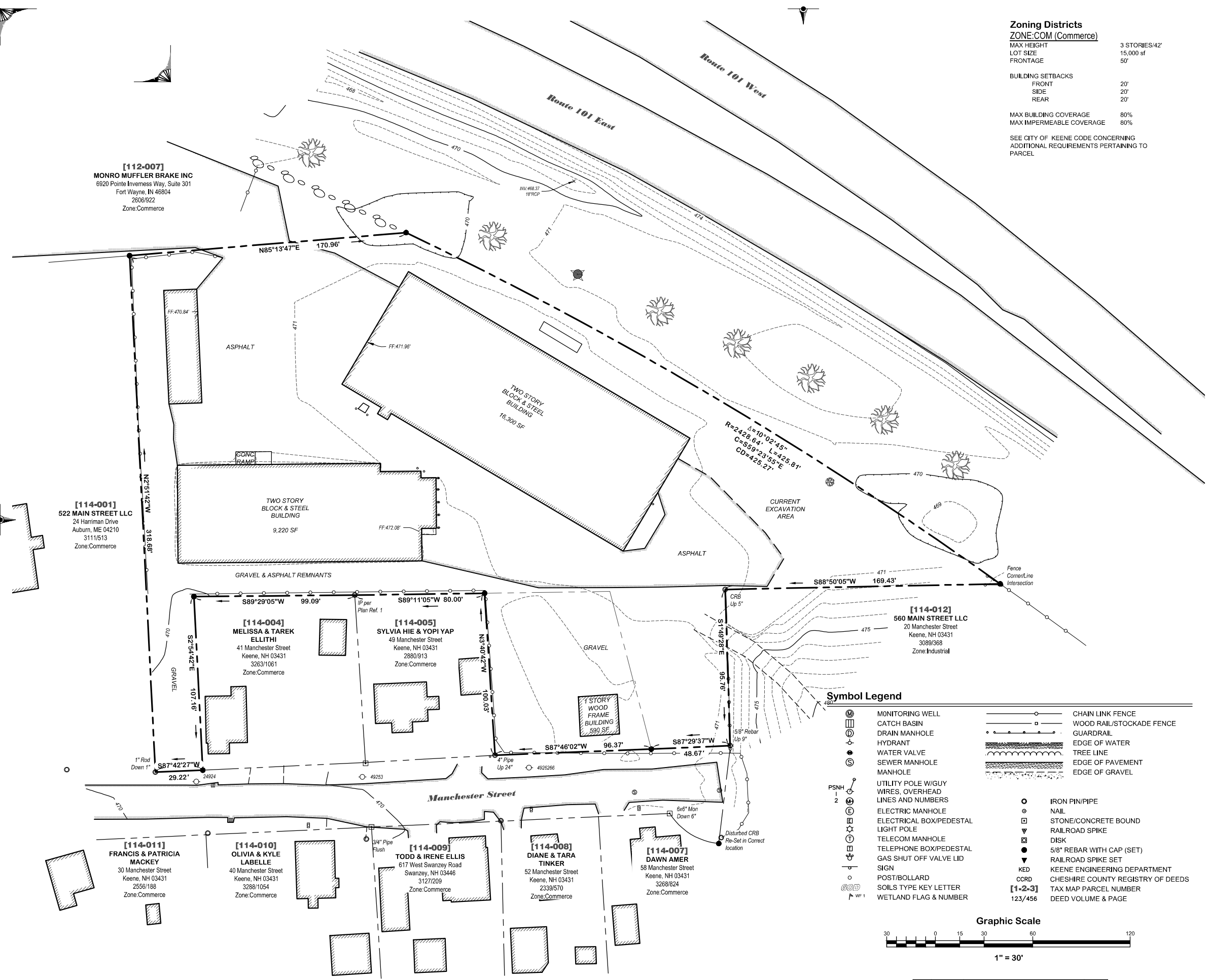
**Huntley Survey & Design, PLLC**  
 NH & VT Land Surveying, Wetlands & NH Septic System Design  
 659 West Road, Temple, NH 03084 (603) 924-1669 www.huntleysurvey.com

NO.	DATE	REVISION	BY



**Symbol Legend**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>⊙ MONITORING WELL</li> <li>⊠ CATCH BASIN</li> <li>⊕ DRAIN MANHOLE</li> <li>⊖ HYDRANT</li> <li>⊗ WATER VALVE</li> <li>⊘ SEWER MANHOLE</li> <li>⊙ MANHOLE</li> <li>⊕ UTILITY POLE W/GUY WIRES, OVERHEAD LINES AND NUMBERS</li> <li>⊖ ELECTRIC MANHOLE</li> <li>⊗ ELECTRICAL BOX/PEDESTAL</li> <li>⊘ LIGHT POLE</li> <li>⊙ TELECOM MANHOLE</li> <li>⊕ TELEPHONE BOX/PEDESTAL</li> <li>⊖ GAS SHUT OFF VALVE LID</li> <li>⊗ SIGN</li> <li>⊘ POST/BOLLARD</li> <li>⊙ SOILS TYPE KEY LETTER</li> <li>⊕ WETLAND FLAG &amp; NUMBER</li> </ul> | <ul style="list-style-type: none"> <li>⊙ CHAIN LINK FENCE</li> <li>⊠ WOOD RAIL/STOCKADE FENCE</li> <li>⊖ GUARDRAIL</li> <li>⊗ EDGE OF WATER</li> <li>⊘ TREE LINE</li> <li>⊙ EDGE OF PAVEMENT</li> <li>⊕ EDGE OF GRAVEL</li> <li>⊖ IRON PIN/PIPE</li> <li>⊗ NAIL</li> <li>⊘ STONE/CONCRETE BOUND</li> <li>⊙ RAILROAD SPIKE</li> <li>⊕ DISK</li> <li>⊖ 5/8" REBAR WITH CAP (SET)</li> <li>⊗ RAILROAD SPIKE SET</li> <li>⊘ KED</li> <li>⊙ KEENE ENGINEERING DEPARTMENT</li> <li>⊕ CHESHIRE COUNTY REGISTRY OF DEEDS</li> <li>⊖ TAX MAP PARCEL NUMBER</li> <li>⊗ DEED VOLUME &amp; PAGE</li> </ul> |
|---|--|



**[112-007]**  
**MONRO MUFFLER BRAKE INC**  
 6920 Pointe Inverness Way, Suite 301  
 Fort Wayne, IN 46804  
 2606/922  
 Zone:Commerce

**[114-001]**  
**522 MAIN STREET LLC**  
 24 Harriman Drive  
 Auburn, ME 04210  
 3111/513  
 Zone:Commerce

**[114-004]**  
**MELISSA & TAREK ELLITHI**  
 41 Manchester Street  
 Keene, NH 03431  
 3283/1061  
 Zone:Commerce

**[114-005]**  
**SYLVIA HIE & YOPI YAP**  
 49 Manchester Street  
 Keene, NH 03431  
 2880/913  
 Zone:Commerce

**[114-012]**  
**560 MAIN STREET LLC**  
 20 Manchester Street  
 Keene, NH 03431  
 3089/368  
 Zone:Industrial

**[114-011]**  
**FRANCIS & PATRICIA MACKEY**  
 30 Manchester Street  
 Keene, NH 03431  
 2556/188  
 Zone:Commerce

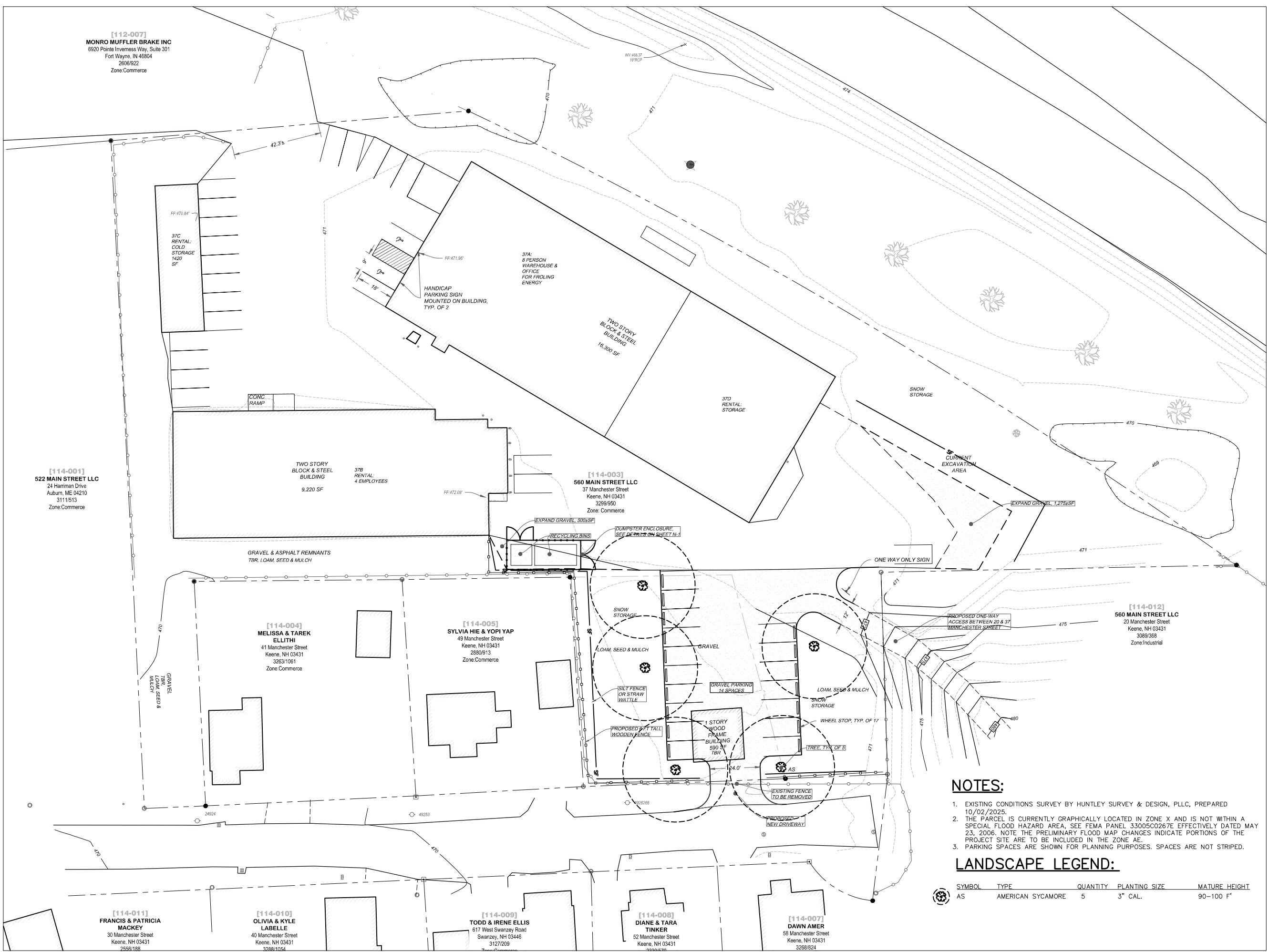
**[114-010]**  
**OLIVIA & KYLE LABELLE**  
 40 Manchester Street  
 Keene, NH 03431  
 3288/1054  
 Zone:Commerce

**[114-009]**  
**TODD & IRENE ELLIS**  
 617 West Swanzey Road  
 Swanzey, NH 03446  
 3127/209  
 Zone:Commerce

**[114-008]**  
**DIANE & TARA TINKER**  
 52 Manchester Street  
 Keene, NH 03431  
 2339/570  
 Zone:Commerce

**[114-007]**  
**DAWN AMER**  
 59 Manchester Street  
 Keene, NH 03431  
 3268/824  
 Zone:Commerce

Drawing name: P:\Project\NH PROJECTS\K2665-01 Fitting Energy>37 Manchester SLD\dwg\Design\K2665-01 SITE rev 5-4-2026.dwg May 07, 2026 - 12:36pm



**[112-007]**  
**MONRO MUFFLER BRAKE INC**  
 6520 Pointe Inverness Way, Suite 301  
 Fort Wayne, IN 46804  
 2069522  
 Zone: Commerce

**[114-001]**  
**522 MAIN STREET LLC**  
 24 Hairman Drive  
 Auburn, ME 04210  
 3111513  
 Zone: Commerce

**[114-004]**  
**MELISSA & TAREK ELLITHI**  
 41 Manchester Street  
 Keene, NH 03431  
 32631061  
 Zone: Commerce

**[114-005]**  
**SYLVIA HIE & YUPI YAP**  
 49 Manchester Street  
 Keene, NH 03431  
 2880913  
 Zone: Commerce

**[114-003]**  
**560 MAIN STREET LLC**  
 37 Manchester Street  
 Keene, NH 03431  
 3299950  
 Zone: Commerce

**[114-012]**  
**560 MAIN STREET LLC**  
 20 Manchester Street  
 Keene, NH 03431  
 3089368  
 Zone: Industrial

**[114-011]**  
**FRANCIS & PATRICIA MACKAY**  
 30 Manchester Street  
 Keene, NH 03431  
 2556188

**[114-010]**  
**OLIVIA & KYLE LABELLE**  
 40 Manchester Street  
 Keene, NH 03431  
 32881054

**[114-009]**  
**TODD & IRENE ELLIS**  
 617 West Swanzey Road  
 Swanzey, NH 03446  
 3127209

**[114-008]**  
**DIANE & TARA TINKER**  
 52 Manchester Street  
 Keene, NH 03431

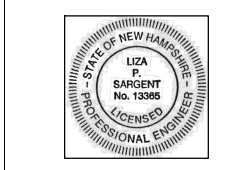
**[114-007]**  
**DAWN AMER**  
 68 Manchester Street  
 Keene, NH 03431  
 3268/824

**NOTES:**

- EXISTING CONDITIONS SURVEY BY HUNTLEY SURVEY & DESIGN, PLLC, PREPARED 10/02/2025.
- THE PARCEL IS CURRENTLY GRAPHICALLY LOCATED IN ZONE X AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA, SEE FEMA PANEL 33005C0267E EFFECTIVELY DATED MAY 23, 2006. NOTE THE PRELIMINARY FLOOD MAP CHANGES INDICATE PORTIONS OF THE PROJECT SITE ARE TO BE INCLUDED IN THE ZONE AE.
- PARKING SPACES ARE SHOWN FOR PLANNING PURPOSES. SPACES ARE NOT STRIPED.

**LANDSCAPE LEGEND:**

SYMBOL	TYPE	QUANTITY	PLANTING SIZE	MATURE HEIGHT
	AMERICAN SYCAMORE	5	3" CAL.	90-100 F'



*Liza Sargent* 5/7/26  
 LIZA P. SARGENT DATE  
 R.C.E. NUMBER: 13365

NO.	REVISION	DATE	DWN	CHK
1	REVISED PER CITY STAFF COMMENTS	07-MAY-26	LPS	LPS

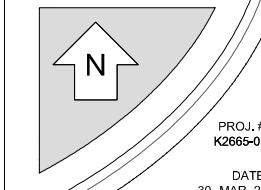
**SVE**

Engineering  
 Planning  
 Landscape Architecture  
 Surveying

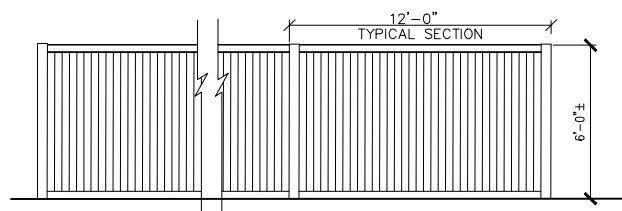
SVE Associates  
 P.O. Box 1818  
 439 West River Road  
 Brattleboro, VT 05302  
 T 802.257.0561  
 F 802.257.0721  
 www.sveassoc.com

**SITE PLAN**

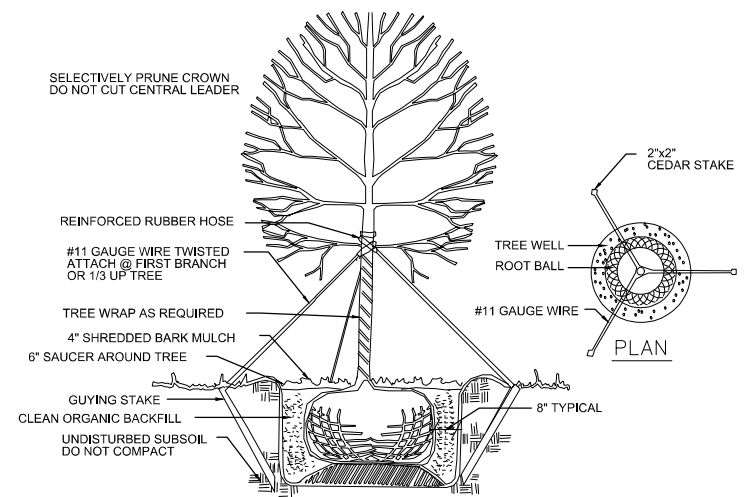
560 MAIN STREET  
 37 MANCHESTER ST  
 KEENE, NEW HAMPSHIRE  
 560 MAIN STREET, LLC



DESIGN: LPS  
 DRAWN: AJG  
 CHECKED: LPS  
 SHEET  
**C-1**  
 PROJ. #:  
 K2665-01  
 DATE:  
 30-MAR-26



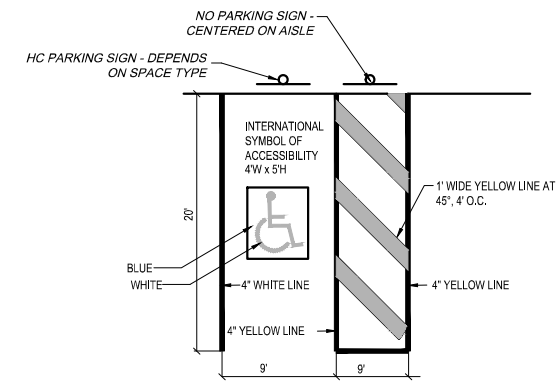
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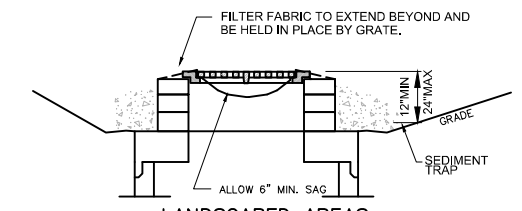
**TREE PLANTING & GUYING DETAIL**  
NO SCALE



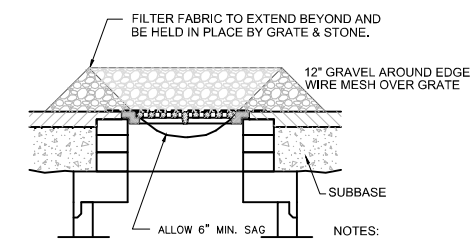
PARKING SIGN DIMENSIONS = 12" x 18"



**HANDICAP PARKING SPACE DETAIL**  
NOT TO SCALE



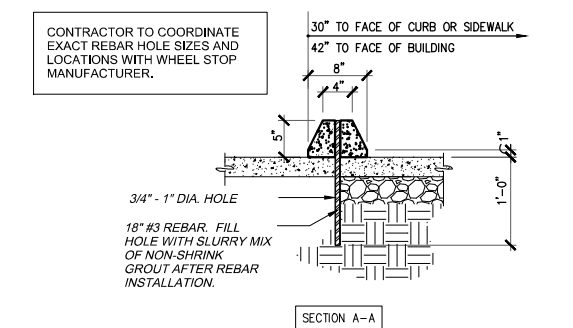
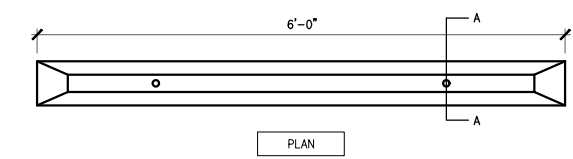
**LANDSCAPED AREAS**



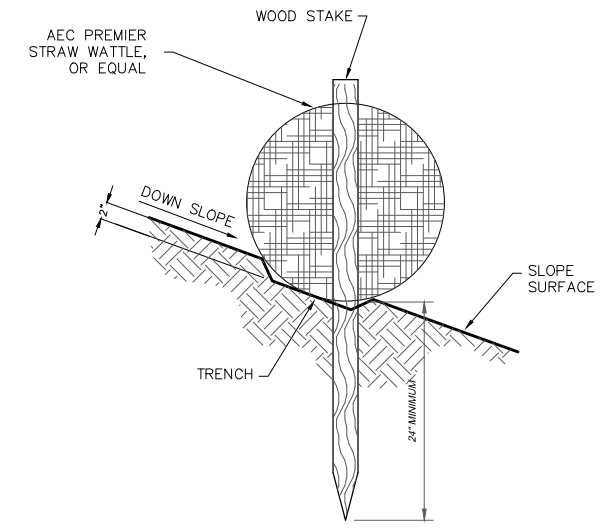
**PAVED AREAS**

REGULAR MAINTENANCE, INCLUDING REPLACEMENT OF SEDIMENT & EROSION CONTROLS SHALL BE CONDUCTED IN ACCORDANCE WITH ALL PERMIT CONDITIONS, AT NO ADDITIONAL COST TO THE OWNER.

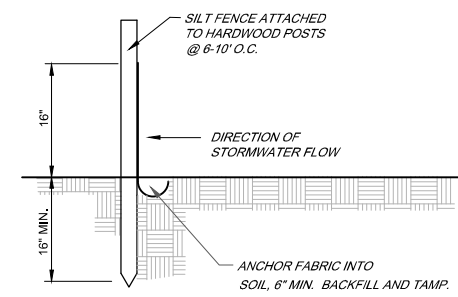
**CATCH BASIN GRATE INLET FILTER**  
NOT TO SCALE



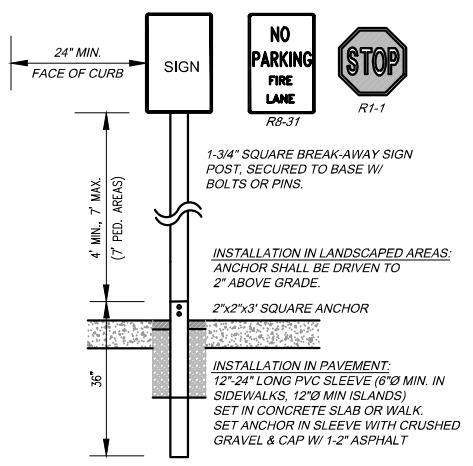
**PRECAST CONCRETE WHEEL STOP**  
NOT TO SCALE



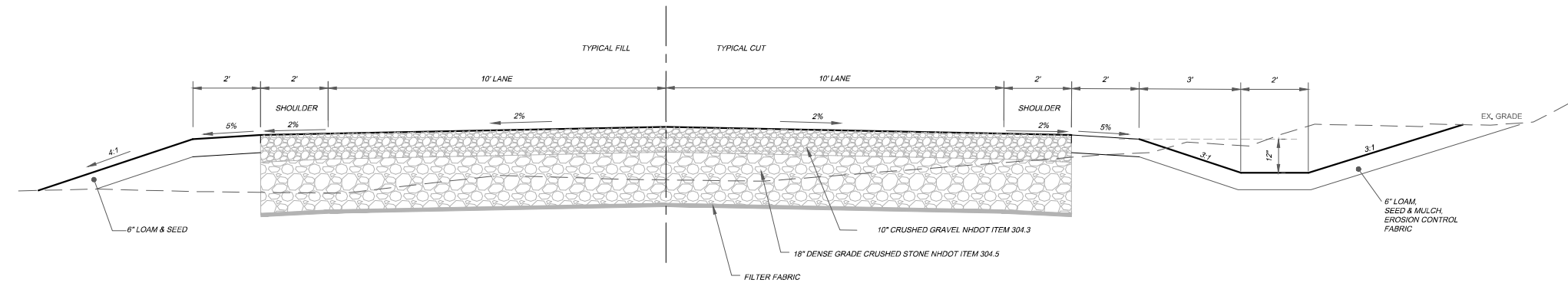
**STRAW WATTLE**  
NOT TO SCALE



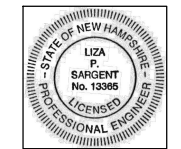
**SILT FENCE**  
NOT TO SCALE



**SIGN DETAIL**  
NOT TO SCALE



**GRAVEL ROAD CROSS SECTION**  
SCALE: 1"=2'



*Liza Sargent* 5/17/26  
LIZA P. SARGENT DATE  
R.C.E. NUMBER: 13365

NO.	REVISION	DATE	CHK	LPS
1	REVISED PER CITY STAFF COMMENTS	07-MAY-26	DWN	LPS

**SVE**  
Engineering  
Planning  
Landscape Architecture  
Surveying  
  
SVE Associates  
P.O. Box 1818  
439 West River Road  
Brattleboro, VT 05302  
T 802.257.0561  
F 802.257.0721  
www.sveassoc.com

**CONSTRUCTION DETAILS**  
560 MAIN STREET  
37 MANCHESTER ST  
KEENE, NEW HAMPSHIRE  
560 MAIN STREET, LLC

GRAPHIC SCALE: AS SHOWN  
  
PROJ. #: K2665-01  
DATE: 30-MAR-26  
DESIGN: LPS SHEET  
DRAWN: AJG **C-2**  
CHECKED: LPS

P:\Project\NH PROJECTS\K2665-01 Fralling Energy\37 Manchester S\Drawings\K2665-01 SITE rev 5-4-2026.dwg, 5/7/2026 12:30:23 PM, AutoCAD PDF (General Documentation).pc3

Drawing name: P:\Project\NH PROJECTS\K2665-01 Fralling Energy\37 Manchester S\Drawings\K2665-01 SITE rev 5-4-2026.dwg May 07, 2026 - 12:30pm



**REFERENCE NOTES:**

1. AERIAL IMAGERY SHOWN IS REFERENCED FROM THE CITY OF KEENE, NH AXIS GIS MAPPER ON MAY 7, 2026. IMAGERY SHOWN IS FROM BASEMAP "2025 CITY IMAGES".
2. THE PURPOSE OF EXHIBIT A IS TO SHOW THE CONFIGURATION BETWEEN 20 AND 37 MANCHESTER STREETS AND THE PROPOSED RENTAL AREAS ON 20 MANCHESTER.

NO.	REVISION	DATE	DWN	CHK
1	PHASE I BUILDING FOOTPRINT	14-FEB-23	LPS	LPS
2	PHASE II BUILDING FOOTPRINT	17-MAR-23	LPS	LPS
3	REVISED PER CITY COMMENTS	07-MAY-26	LPS	LPS

**SVE** © 2026

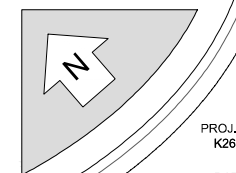
Engineering  
Planning  
Landscape Architecture  
Surveying

SVE Associates  
P.O. Box 1818  
439 West River Road  
Brattleboro, VT 05302  
T 802.257.0561  
F 802.257.0721  
www.sveassoc.com

**RENTAL AREA EXHIBIT**

560 MAIN STREET  
  
560 MAIN STREET, LLC  
590 Hancock Road  
Peterborough, NH 03458

0 25' 50' 100'  
GRAPHIC SCALE 1" = 50'



DESIGN: LPS  
DRAWN: TS/LPS  
CHECKED: LPS

PROJ. #:  
K2665  
DATE:  
20-SEPT-19  
EXHIBIT  
**A**



**NOTES:**  
 1. AERIAL IMAGERY REFERENCED FROM BING MAPS. IMAGERY IS SEVERAL YEARS OLD, AS CAN BE SEEN WITH THE FORMER CITY OF KEENE SALT SHED STILL ON LOT 20 MANCHESTER STREET.  
 2. INTENT OF EXHIBIT IS TO SHOW CONFIGURATION BETWEEN 20 AND 37 MANCHESTER STREET AND VEHICULAR MANEUVERING ONTO 37 MANCHESTER.

NO.	REVISION	DATE	DWN	CHK

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 Engineering  
 Planning  
 Landscape Architecture  
 Surveying

SVE Associates  
 P.O. Box 1818  
 439 West River Road  
 Brattleboro, VT 05302  
 T 802.257.0561  
 F 802.257.0721  
 www.sveassoc.com

**TURNING MOVEMENT-KEENE LADDER TRUCK**

560 MAIN STREET  
 37 MANCHESTER ST  
 KEENE, NEW HAMPSHIRE  
 560 MAIN STREET, LLC

0 25' 50' 100'  
 GRAPHIC SCALE 1" = 50'

**N**

PROJ. #: K2665-01  
 DATE: 30-MAR-26  
 DESIGN: LPS  
 DRAWN: AJG  
 CHECKED: LPS

EXHIBIT **B**



**NOTES:**  
 1. AERIAL IMAGERY REFERENCED FROM BING MAPS. IMAGERY IS SEVERAL YEARS OLD, AS CAN BE SEEN WITH THE FORMER CITY OF KEENE SALT SHED STILL ON LOT 20 MANCHESTER STREET.  
 2. INTENT OF EXHIBIT IS TO SHOW CONFIGURATION BETWEEN 20 AND 37 MANCHESTER STREET AND VEHICULAR MANEUVERING ONTO 37 MANCHESTER.

NO.	REVISION	DATE	DWN	CHK

**SVE** © 2025  
 Engineering  
 Planning  
 Landscape Architecture  
 Surveying

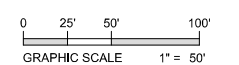
SVE Associates  
 P.O. Box 1818  
 439 West River Road  
 Brattleboro, VT 05302  
 T 802.257.0561  
 F 802.257.0721  
 www.sveassoc.com

**TURNING MOVEMENT- BOX TRUCK**

560 MAIN STREET  
 37 MANCHESTER ST  
 KEENE, NEW HAMPSHIRE

---

560 MAIN STREET, LLC



PROJ. #:  
K2665-01

DATE:  
30-MAR-26

DESIGN: LPS  
 DRAWN: AJG  
 CHECKED: LPS

EXHIBIT  
**C**

## Existing Painted Steel Siding



Proposed Wood Siding Vertical Board and Batton



Return to:  
Susan A. Manchester, Esq.  
Sheehan Phinney Bass & Green PA  
1000 Elm Street, 17<sup>th</sup> Floor  
Manchester, NH 03101  
T/S: \$11,250.00

E Doc # 2500329 01/15/2025 08:30:42 AM  
Book 3299 Page 950 Page 1 of 4  
Register of Deeds, Cheshire County  
LCHIP CHA130851 25.00  
TRANS TAX CH858089 11,250.00  
*Anne Z Tiffin*

Transfer Tax: \$ 11,250.00

**WARRANTY DEED**

*Monro, Inc., f/k/a Monro Muffler Brake, Inc.*, a New York corporation having an address of 295 Woodcliff Drive, Suite 202, Fairport, New York 14450, for consideration paid, grants to *560 Main Street LLC*, a New Hampshire limited liability company having an address of 20 Manchester Street, Keene, NH 03431, with warranty covenants:

“TRACT I” - 37 Manchester Street

A certain tract or parcel of land with the buildings thereon located in the City of Keene, Cheshire County, New Hampshire, bounded and described as follows:

Beginning at an iron pin on the northerly side of Manchester Street, said pin being located twenty-nine and thirty hundredths (29.30) feet, more or less, westerly of the southwest corner of land now or formerly of Rajala;

Thence North 12° 28.4' East along land now or formerly of Bergevin, a distance of three hundred eighteen and eighty-four hundredths (318.84) feet, more or less, to an iron pin at land now or formerly of Damon;

Thence South 79° 23.5' East along said Damon land, a distance of one hundred seventy and ninety-eight hundredths (170.98) feet, more or less, to an iron pin on the southwesterly side of New Hampshire Route 101;

Thence southeasterly along the southwesterly side of said Route 101, a distance of four hundred thirty (430.0) feet, more or less;

Thence North 75° 25' West, a distance of three (3.0) feet, more or less, to the northeast corner of land of the City of Keene and continuing in the same direction along said City of Keene land, and along Tract II below, and along land now or formerly of Fecto, and land now or formerly of Rajala, a distance of four hundred ninety-eight (498.0) feet, more or less, to an iron pin at the northwest corner of said Rajala land;

Thence South 12° 17.5' West along said Rajala land, a distance of one hundred six and seventy-nine hundredths (106.79) feet, more or less, to an old stone bound on the northerly side of Manchester Street;

Thence North 77° 17' West along said Street, a distance of twenty-nine and thirty hundredths (29.30) feet, more or less, to the point of beginning.

Also conveying a right-of-way in common with others as follows:

A right-of-way twelve (12.0) feet wide in said Keene, along the southerly line of land now or formerly of Hamilton Realty Corporation, from Main Street to premises now or formerly of Norman H. Cotton and James D. Walker, d/b/a Keene Specialty Sales (formerly Baker Manor), as shown on a plan entitled "Norman H. Cotton and James D. Walker, Keene Specialty Sales, Keene, New Hampshire" Surveyed April 1968, revised through October, 1975, prepared by Roy K. Piper, recorded in the Cheshire County Registry of Deeds in Plan Book 35, Page 9.

"TRACT II" – 37 Manchester Street

A certain tract of land in Keene, County of Cheshire and State of New Hampshire, being shown as Lot 1 on a plan of land entitled "Subdivision Plan Prepared for Tire Warehouse Central, Inc., Land of City of Keene, Keene, N.H." dated December 16, 1987, prepared by David A. Mann Associates, and recorded in the Cheshire County Registry of Deeds in Plan Book 9, Page 159, being bounded and described as follows:

Beginning at an iron pin in the northerly line of Manchester Street which marks the corner of other land of Tire Warehouse Central, Inc.;

Thence North 0° 10' East, a distance of 100.47 feet bounding on other land of Tire Warehouse Central, Inc. to an iron pin;

Thence South 75° 44' East, a distance of 70.83 feet bounding on other land of Tire Warehouse Central, Inc. to an iron pin;

Thence South 12° 50' West, a distance of 95.76 feet along a wire fence bounding on other land of the City of Keene to an iron pin in the northerly line of Manchester Street;

Thence North 77° 44' West, a distance of 48.77 feet on the northerly line of Manchester Street to the place of beginning.

The above-described Tract II is merged with and considered an integral part of Tract I, and is not to be conveyed or transferred separately from other land of Tire Warehouse Central, Inc. in the future.

“TRACT III” – 53 Manchester Street

A certain tract of land, with any buildings thereon, situated in said Keene and being Lots numbered 15, 16, 17 and 18 on a plan of land entitled “Main Street Terrace, Keene, N.H., Owned by A. W. Lacroix, Manchester, N.H.” dated March, 1924, prepared by E. N. Sheffield, C.E., and recorded in Plan Book 2, Page 121 of the Cheshire County Registry of Deeds, to which plan reference may be had for a more particular description.

Meaning and intending to describe and convey a portion (Tracts II, III and IV) of the same premises conveyed to Monro Muffler Brake, Inc. by Warranty Deed from Tire Warehouse Central, Inc. dated October 2, 2009 and recorded in the Cheshire County Registry of Deeds on November 4, 2009 in Book 2606, Page 922.

[Signature Page Follows]

IN WITNESS WHEREOF, Monro, Inc., f/k/a Monro Muffler Brake, Inc. has caused this instrument to be executed this 13<sup>th</sup> day of January, 2025.

MONRO, INC.

By: Brian J. D'Ambrosia  
Name: Brian J. D'Ambrosia  
Its: Executive Vice President and Chief Financial Officer  
Duly Authorized

STATE OF New York  
COUNTY OF Monroe

On this 13<sup>th</sup> day of January, 2025, before me, the undersigned notary public, personally appeared Brian J. D'Ambrosia, proved to me through satisfactory evidence of identification, which was: [ ] at least one current document issued by a federal or state government agency bearing the photographic image of the signatory's face and signature, [ ] the oath or affirmation of a credible witness unaffected by the document or transaction who is personally known to me and who personally knows the signatory, or  identification of the signatory based on my personal knowledge of the identity of the signatory, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose, as Chief Executive Officer of Monro, Inc., as the voluntary act of Monro, Inc.

Seal:

Mindi S. Collom  
Notary Public  
My Commission Expires: 11/5/2025

MINDI S. COLLOM  
Notary Public, State of New York  
Monroe County  
Reg. No. 01CO6065971  
Commission Expires 11/5/2025



# CITY OF KEENE NEW HAMPSHIRE

ITEM #G.3.

**Meeting Date:** May 26, 2026

**To:** Planning Board

**From:** Megan Fortson, Planner

**Through:** Mari Brunner, Senior Planner

**Subject:** **PB-26-11 - GMS Parking Lot Expansion - Major Site Plan & Surface Water Protection Conditional Use Permit - Applicant Fieldstone Land Consultants, on behalf of owner GMS Realty LLP, proposes to expand the rear parking lot and install stormwater management infrastructure within the 30-ft surface water buffer on the lot at 30 Production Ave. The property is ~3.1 ac and is in the Industrial District.**

---

**Recommendation:**

To review the attached staff report and application materials in preparation for the public hearing.

**Attachments:**

1. Staff Report
2. Application
3. Narrative
4. Plan Set
5. Drainage Report

**Background:**

The ~3.1-ac subject parcel is located on the eastern side of Production Ave in the Industrial District. The site is currently developed with a 4-unit industrial building occupied by the Fastenal Fulfillment Center, Pathways Book Service, and Green Mountain Electric Supply. The applicant proposes to formalize and expand the parking area at the rear of the site by adding 24 additional spaces. To accommodate this additional impervious area and solve existing drainage issues, a new stormwater management area is proposed to be installed within the 30-ft surface water buffer. Per Section 11.6.1.A.4 of the Land Development Code (LDC), the construction of new stormwater management facilities and structures within the surface water buffer requires the submittal of a Conditional Use Permit for review by the Planning Board

# STAFF REPORT

## PB-26-11 – MAJOR SITE PLAN & SURFACE WATER PROTECTION CONDITIONAL USE PERMIT, 30-42 PRODUCTION AVE

### **Request:**

Applicant Fieldstone Land Consultants, on behalf of owner GMS Realty LLP, proposes to expand the rear parking lot and install stormwater management infrastructure within the 30-ft surface water buffer on the lot at 30-42 Production Ave (TMP #110-006-000). The property is ~3.1-ac in size and is located in the Industrial District.

### **Background:**

The ~3.1-ac subject parcel is located on the eastern side of Production Ave in the Industrial District (Figure 1). Adjacent uses include a commercial office/warehouse building to the north, Unity Homes manufacturing to the west, and undeveloped land to the south and east. The site is currently developed with a 4-unit industrial building occupied by the Fastenal Fulfillment Center, Pathways Book Service, and Green Mountain Electric Supply. Parking spaces are located to the west of the existing building with site access from two curb cuts along Production Ave. The rear of the site is occupied by an informal gravel parking area with some areas of pavement. A City tax ditch runs along the southeastern property boundary and is accompanied by wetlands, which run along the full length of the eastern property line.



*Figure 1. Aerial imagery of the subject parcel at 30-42 Production Ave from 2025.*

The applicant proposes to formalize and expand the parking area at the rear of the site by adding 24 additional spaces. To accommodate this additional impervious area and solve existing drainage issues, a new stormwater management area is proposed to be installed within the 30-ft surface water buffer. Per Section 11.6.1.A.4 of the Land Development Code (LDC), the construction of new stormwater management facilities and structures within the surface water buffer requires the submittal of a Conditional Use Permit for review by the Planning Board.

### **Determination of Regional Impact:**

Staff have made a preliminary evaluation that the proposal does not appear to have the potential for “regional impact” as defined in RSA 36:55. The Board should determine whether the proposal could have the potential for regional impact.

# STAFF REPORT

## **Completeness:**

The applicant requests exemptions from submitting a landscaping plan, lighting plan, elevations/renderings, a traffic analysis, soil analysis, historic evaluation, architectural & visual appearance analysis, and a screening analysis. Planning Staff have made the preliminary determination that granting the requested exemptions would have no bearings on the merits of the application and recommend that the Board accept the application as “complete.”

## **Engineering Staff Comments:**

- Please coordinate the planned start of construction with Public Works in order for the Highway Division to access and maintain the existing tax ditch that runs through the site during construction in order to minimize disturbance and disruption to operations.

## **APPLICATION ANALYSIS**

### **ARTICLE 11, SECTION 11.6 – SURFACE WATER PROTECTION STANDARDS:**

**2.A Relocation of Proposed Use / Activity:** The applicant proposes to formalize and expand the rear parking area by adding 24 additional parking spaces. The expanded parking area will provide more space for tenants to accept deliveries by large trucks and solve existing drainage issues. The parking lot is designed to pitch to the rear of the lot into a detention basin at the back of the building. The site is bounded on its eastern side by an area of wetlands, which run parallel to the City’s tax ditch. Figure 2 shows the location of the wetlands in red and the 30-ft surface water buffer in orange.

The narrative states that the area to be impacted is currently a mix of trees and brush that have grown in along the tax ditch over time. Poorly drained soils adjacent to this area have formed a wetland. The applicant states that the stormwater management system cannot avoid being located within the buffer and goes on to state that the new drainage system has been located to avoid any impacts to the wetlands resource itself. Approximately 9,875-sf of impact is proposed within the 30-ft surface water buffer as a result of lowering grades and constructing a rain garden as the new stormwater management system, which the applicant says will function as a manmade wetland.

**2.B Buffer Encroachment:** The narrative states that the rain garden was designed to be narrow and long to minimize impacts to the surface water buffer and ensure that the wetlands would not be impacted by stormwater runoff. The detention area is at a lower elevation to receive stormwater and provide storage space for stormwater and floodwaters in this area, which is relatively flat.

**2.C Adverse Impacts:** The narrative states that runoff from the parking lot will be directed to the rain garden and treated by an amended soil layer and rain garden plantings. Any water that flows over from the spillway will be treated to ensure that direct runoff from the paved areas does not flow directly into the wetland. Silt fencing will be installed along the eastern boundary of the proposed rain garden to protect the wetlands during construction. After construction, disturbed areas will be planted and seeded for stabilization. Planning Staff recommend that the Board include a condition of approval related to the flagging and inspection of the surface water buffer prior to the commencement of site work.

# STAFF REPORT

Per Section 11.6.3.A of the LDC, this application has been referred to the Conservation Commission for review at their meeting on Monday, May 18<sup>th</sup>. Planning Staff will share any comments provided by the Commission during the public hearing for this application.

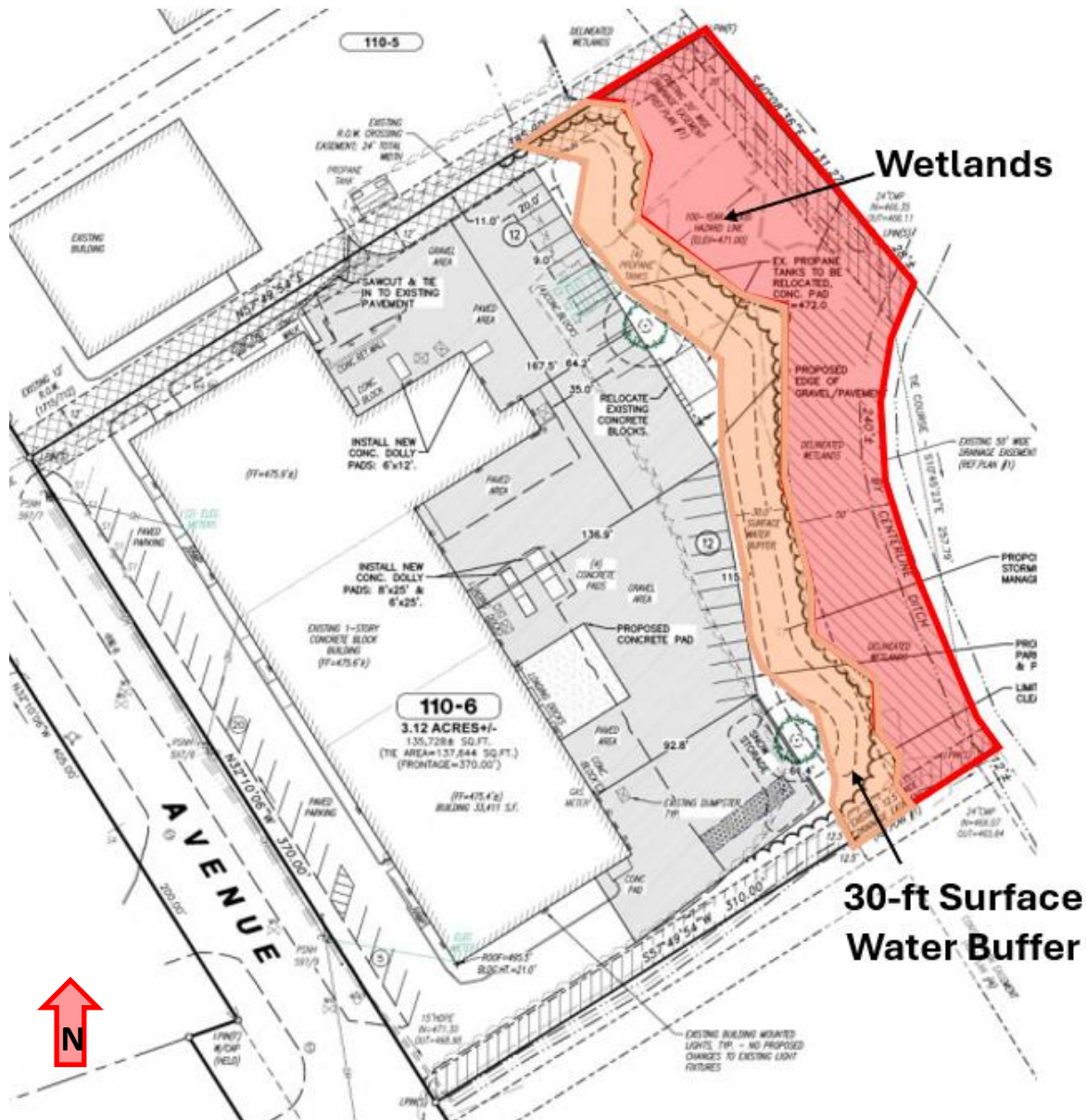


Figure 2. A snippet of the proposed conditions plan showing the location of the delineated wetlands and 30-ft surface water buffer on the parcel at 30-42 Production Ave.

- 2.D Preservation of Buffer:** The narrative states that impacted portions of the surface water buffer will be replanted with water-loving plant species and a conservation seed mix will be used to stabilize the berm for the rain garden. Work within the tax ditch will be coordinated with the Public Works Department to ensure that impacted areas are only disturbed once. Planning Staff recommend that the Board include a condition of approval related to the submittal of a security to cover sediment and erosion control measures as well as all landscaping and seed mix needed to stabilize the rain garden.

## STAFF REPORT

- 2.E Additional Criteria for Consideration:** During the deliberation of this application, the Board may consider the quality, location, connectivity, and other characteristics of the wetlands listed under this section of the LDC when deciding whether to allow the proposed encroachment into the surface water buffer.

### **ARTICLE 21 – SITE DEVELOPMENT STANDARDS:**

- 21.2 Drainage:** The project narrative states that to alleviate existing drainage issues on the site, the site will be re-graded towards the new rain garden, which will be used to treat and store stormwater runoff. Drainage calculations were submitted as part of the application materials and reviewed by the City Engineer. This standard appears to be met.
- 21.3 Sediment & Erosion Control:** Silt fencing will be installed along the western edge of the wetlands and 30-ft buffer to protect this area from receiving sediment during construction. A stabilized construction entrance is also proposed. This standard appears to be met.
- 21.4 Snow Storage & Removal:** The proposed conditions plan shows a snow storage area at the southeastern corner of the new parking area. Note #13 on the plan states that snow cannot be pushed into or stored within the 30-ft surface water buffer. This standard appears to be met.
- 21.5 Landscaping:** The applicant proposes to install two, 2” caliper Red Maple trees along the eastern edge of the parking area. Section 9.4.5.A of the LDC requires that for parking lots with 10+ parking spaces that one tree with a 3” diameter as measured 6’ from the ground must be installed for every ten parking spaces. Alternatively, a group of three or more trees with a 2” caliper as measured 6’ from the ground can also be planted instead. At the time of this staff report, Planning Staff were waiting to hear back from the applicant about how they plan on addressing this requirement. Planning Staff recommend that the Board include a condition of approval related to the submittal of an updated plan that complies with this section of the LDC as well as a security to cover the cost of all landscaping.
- 21.6 Screening:** The proposed parking area and relocated propane tanks will not be visible from the public right-of-way. This standard is not applicable.
- 21.7 Lighting:** No lighting proposed as part of this application. This standard is not applicable.
- 21.8 Sewer & Water:** No changes are proposed to water or sewer utilities. This standard is not applicable.
- 21.9 Traffic & Access Management:** The site is currently accessed via two curb cuts along Production Ave, which are not proposed to be altered as part of this application. The narrative states that no additional vehicle traffic is expected as improvements are only being made to accommodate existing truck deliveries. This standard is not applicable.
- 21.10 Filling & Excavation:** The narrative states that while filling and excavation is proposed as part of this project, it will not exceed the 50-truck limit needed to provide a truck route as part of the application materials. This standard appears to be met.

## STAFF REPORT

- 21.11 Surface Waters & Wetlands:** Surface waters and wetlands are addressed under the criteria for Article 11 of the LDC included above.
- 21.12 Hazardous & Toxic Materials:** The narrative states that there are no hazardous and toxic materials proposed as part of this application. This standard is not applicable.
- 21.13 Noise:** The narrative states that no additional noise will be generated as a result of the proposed modifications. This standard is not applicable.
- 21.14 Architecture & Visual Appearance:** The narrative states that there are no changes proposed to the architecture or visual appearance of the existing building. This standard is not applicable.

### **Recommended Motion:**

If the Board is inclined to approve this request, the following motion is recommended:

**“Approve PB-26-11 as shown on the plan set identified as “Site Development Plans, Green Mountain Electric Supply” prepared by Fieldstone Land Consultants, PLLC at a scale of 1 inch = 40 feet on April 17, 2026 and last revised on May 11, 2026 with the following conditions:**

- 1. Prior to final approval and signature of the plans by the Planning Board Chair, the following conditions precedent shall be met:**
  - a. Owner’s signature appears on the plans.**
  - b. Submittal of five (5) full size paper copies and a flattened PDF version of the final plan set.**
  - c. Submittal of an updated proposed conditions plan that complies with the parking lot landscaping requirements outlined under Section 9.4.5.A of the LDC.**
  - d. Submittal of a security to cover the cost of erosion and sediment control measures, as-built plans, landscaping, and a conservation seed mix in a form and amount acceptable to the Community Development Director.**
- 2. Subsequent to final approval and signature of the plans by the Planning Board Chair, the following conditions shall be met:**
  - a. Prior to the commencement of site work, the Community Development Department shall be notified when all erosion control measures have been installed, and the 30-ft surface water buffer is flagged by a surveyor licensed in the state of NH. Community Development Staff shall inspect the erosion control measures and wetland flagging to ensure compliance with the approved plans and all City of Keene regulations.**
  - b. Following the installation of landscaping, the Community Development Department shall be contacted to perform an initial inspection.**
  - c. One year following the installation of all landscaping, the Community Development Department shall be contacted to perform a final inspection.”**



**CITY OF KEENE**  
NEW HAMPSHIRE

# Planning Application

<b>Project Number:</b>	PB-26-11	<b>Date Submitted:</b>	April 17, 2026
<b>Project Name:</b>	GMS - Parking Lot Expansion	<b>Zoning:</b>	IND
<b>Project Address:</b>	30 PRODUCTION AVE.	<b>Parcel Size:</b>	33252
<b>Parcel Number:</b>	110006000000000		

**Owner Information**

GMS REALTY LLP <i>Name</i>	356 RATHE RD <i>Address</i>	COLCHESTER VT 05446 <i>City/State/Zip</i>
-------------------------------	--------------------------------	--

**Applicant Name**

John Noonan

**Applicant Phone #**

6036725456

**Authorized Agent Name**

Chad E. Branon

**Authorized Agent Phone #**

603-672-5456

**Project Description**

Green Mountain Electric Supply is looking to expand the rear parking lot of the existing site at 30 Production Ave and improve drainage. They are looking for more parking spaces and area to unload supply trucks. The rear parking lot has been designed to pitch to the rear of the lot and improve drainage at the rear of the building.

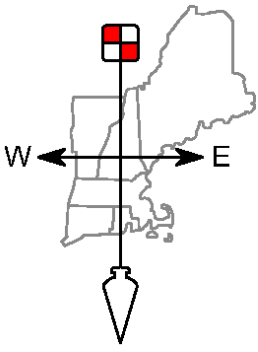
**Attachments**

***Narrative & Plan Set***

Narrative	Submitted
Location Map	Submitted
Existing Conditions Plan	Submitted
Proposed Conditions Plan	Submitted
Grading Plan	Submitted
Landscaping Plan	Exemption Requested
Lighting Plan	Exemption Requested
Elevations / Renderings	Exemption Requested

***Technical Reports***

Drainage Report	Submitted
Traffic Report / Analysis	Exemption Requested
Soil Analysis	Exemption Requested
Historic Evaluation	Exemption Requested
Screening Analysis	Exemption Requested
Architectural Analysis	Exemption Requested
Other Reports / Analyses	N/A



# FIELDSTONE

Surveying ♦ Engineering  
Land Planning ♦ Septic Designs

LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055 - Phone: 603-672-5456 - Fax: 603-413-5456  
www.FieldstoneLandConsultants.com

GMS Realty, LLP  
Parking Lot Expansion  
Site Plan Narrative

GMS Realty, LLP  
Tax Map Parcel 110, Lot 6  
30-42 Production Avenue, Keene, New Hampshire

Revised: May 11, 2026

**Project Narrative:**

Fieldstone Land Consultants, on behalf of Green Mountain Electric Supply, Inc. and GMS Realty, LLP, is submitting a Site Plan application for Planning Board review. The proposal consists of expanding the rear parking lot on Tax Map Lot 110-006 located at 30-42 Production Avenue. The applicant would like to increase the parking and improve truck access to the rear of the existing building.

The existing Tax Map Parcel 110-006-000 has 3.12 +/- acres with 370.0 feet of frontage along Production Avenue. The lot is located in the Industrial District and is currently developed with a three-tenant building, parking lot, and rear loading docks. The property is used by three businesses within the building; Green Mountain Electric Supply, Pathway Book Service, and Fastenal. There are 25 parking spaces at the front of the building that utilize two curb cuts onto Production Avenue. The access to the rear of the building is used for material deliveries to the three buildings with loading docks. The rear parking lot has a very narrow driveway around the northwest unit (30 Production Ave.), which has posed issues with deliveries to each of the tenants. The rear parking lot also drainage issues, where the owner has reported standing water within a large section of the paved area.

The proposal is to expand the rear parking lot to make it more user-friendly and provide more space for the multi-tenant building to accept deliveries by large trucks. The parking lot will have a total of 24 new parking spaces, where the increase is less than the 100% threshold where 25 existing parking spaces exist. The northern driveway is shared by Parcel 110-005 and the subject property, where the driveway follows the property line and is on both lots. There is an existing right-of-way in the deed that allows for both parties to cross this area for access.

The loading docks currently have small concrete dolly pads, which are planned to be replaced and made larger at each loading dock location. The propane tanks in the rear parking lot will be relocated to provide for the expanded parking lot and be out of the way from vehicle traffic. The rear parking lot grades will be reconstructed to pitch away from the building and toward the east. Along the eastern edge of the parking lot a long rain garden basin will be constructed to provide stormwater management and improve the drainage situation. The basin will be constructed partially into the 100-year floodplain, however, the grades will only be lowered and no fill is proposed in the floodplain. The rain garden will also impact the wetland buffer; however these will only be for stormwater management and erosion control measures. There are no permanent structures or impacts within the

wetland buffer and no wetland resource impacts associated with the project.

**Site Development Standards (Article 21 of the LDC):**

**21.2. Drainage & Stormwater:** The site currently has drainage issues in the rear parking lot/loading dock area, which drove the need for the project improvements. The rear parking lot will be expanded and graded to the east, where a proposed rain garden basin will be constructed. The raingarden will provide stormwater treatment and retention of rainstorm runoff waters. The rain garden spillway elevation is at the 100-Year Flood Elevation (471.0) to control flow out of the basin during large storm events. There will be plantings within the amended soil in the rain garden for plants to absorb stormwater and provide treatment for the runoff from the rear parking lot. There is a stormwater summary included with the application.

**21.3 Sediment & Erosion Control:** Temporary erosion control measures consisting of silt fencing and a stabilized construction entrance to be used during the construction process.

**21.4 Snow Storage & Removal:** Snow will be stored on site adjacent to the parking areas, similar to the existing condition.

**21.5 Landscaping:** The existing landscaping will remain. There will be plantings within the rain garden to facilitate stormwater treatment.

**21.6 Screening:** The parking lot expansion will not be visible from a public way. The propane utility will be moved further behind the building and less visible from surrounding properties and is not visible from a public way.

**21.7 Lighting:** There are existing building mounted lights that will remain unchanged. There are no proposed light fixtures.

**21.8 Sewer & Water:** Sewer and water are municipal services, and will not change.

**21.9 Traffic & Access Management:** Access will continue to be off Production Avenue with truck access being improved around the building. The overall business traffic is not anticipated to change and Production Avenue will not be adversely impacted by this improvement.

**21.10 Filling & Excavation:** The proposed grading will require removal of material to construct the rain garden basin. This will not be a substantial amount of material and certainly under the 50 truck limit.

**21.11 Surface Waters & Wetlands:** There is a wetland along the eastern boundary following the City Tax Ditch system. The impacts to 30' wetland buffer will be for the construction of the stormwater management system, the rain garden. There are no wetland resource impacts.

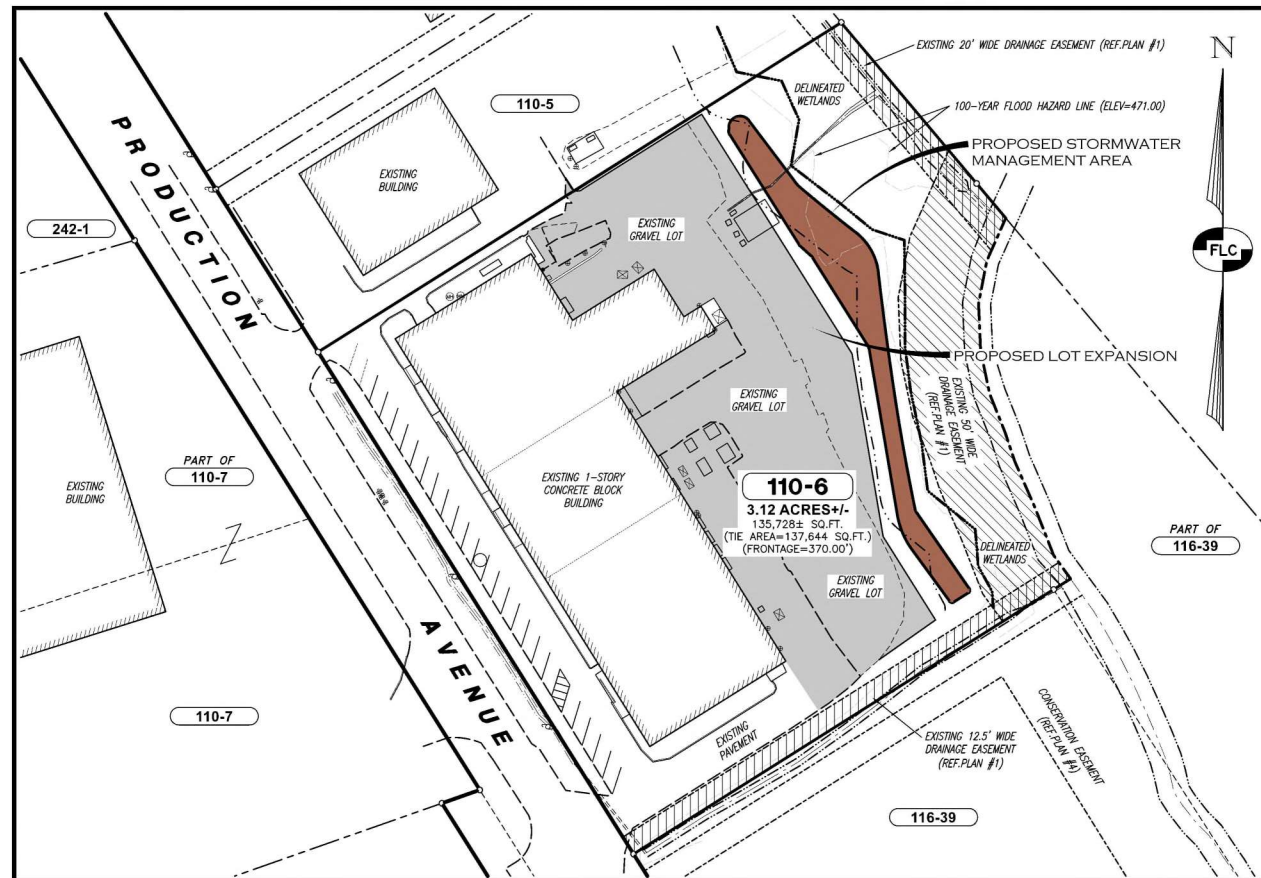
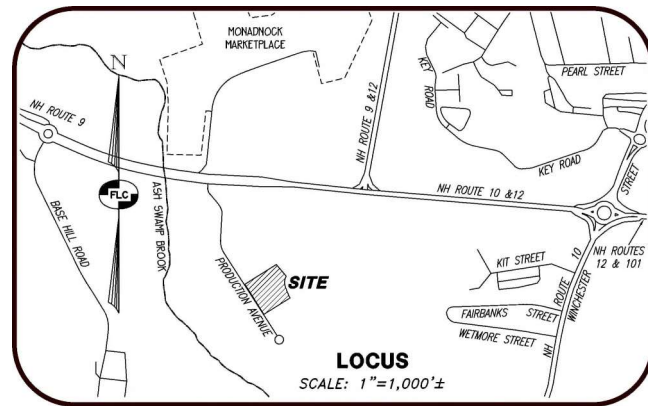
**21.12 Hazardous & Toxic Materials:** There are none associated with this project.

**21.13 Noise:** Noise will not change from the existing condition. There will be short term construction noise associated with the site improvements, but will not impact abutters.

**21.14 Architecture & Visual Appearance:** The architecture of the building will not change.

# SITE DEVELOPMENT PLANS GREEN MOUNTAIN ELECTRIC SUPPLY

- TAX MAP 110, LOT 006 -  
(30-42 PRODUCTION AVENUE)  
KEENE, NEW HAMPSHIRE  
APRIL 17, 2026  
LAST REVISED: MAY 11, 2026



SCALE: 1" = 60'

**PREPARED FOR:**  
**GREEN MOUNTAIN ELECTRIC SUPPLY, INC.**  
356 RATHE ROAD, COLCHESTER, VT 05446

**LAND OF:**  
**GMS REALTY, LLP**  
356 RATHE ROAD, COLCHESTER, VT 05446



LAND-OWNER SIGNATURE	
OWNER: _____	DATE: _____
APPROVED BY THE KEENE PLANNING BOARD	
ON: _____	CERTIFIED BY _____
CHAIRMAN: _____	AND _____
SECRETARY: _____	

1. THE LOCATION OF THE UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PRESERVE ALL UTILITY SERVICES.

2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL JURISDICTIONAL AGENCIES AND UTILITY COMPANIES PRIOR TO AND DURING CONSTRUCTION.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND PROPOSED WORK PRIOR TO CONSTRUCTION.

CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION  
**DIGSAFE.COM**  
OR DIAL 811  
KNOW WHAT'S BELOW

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

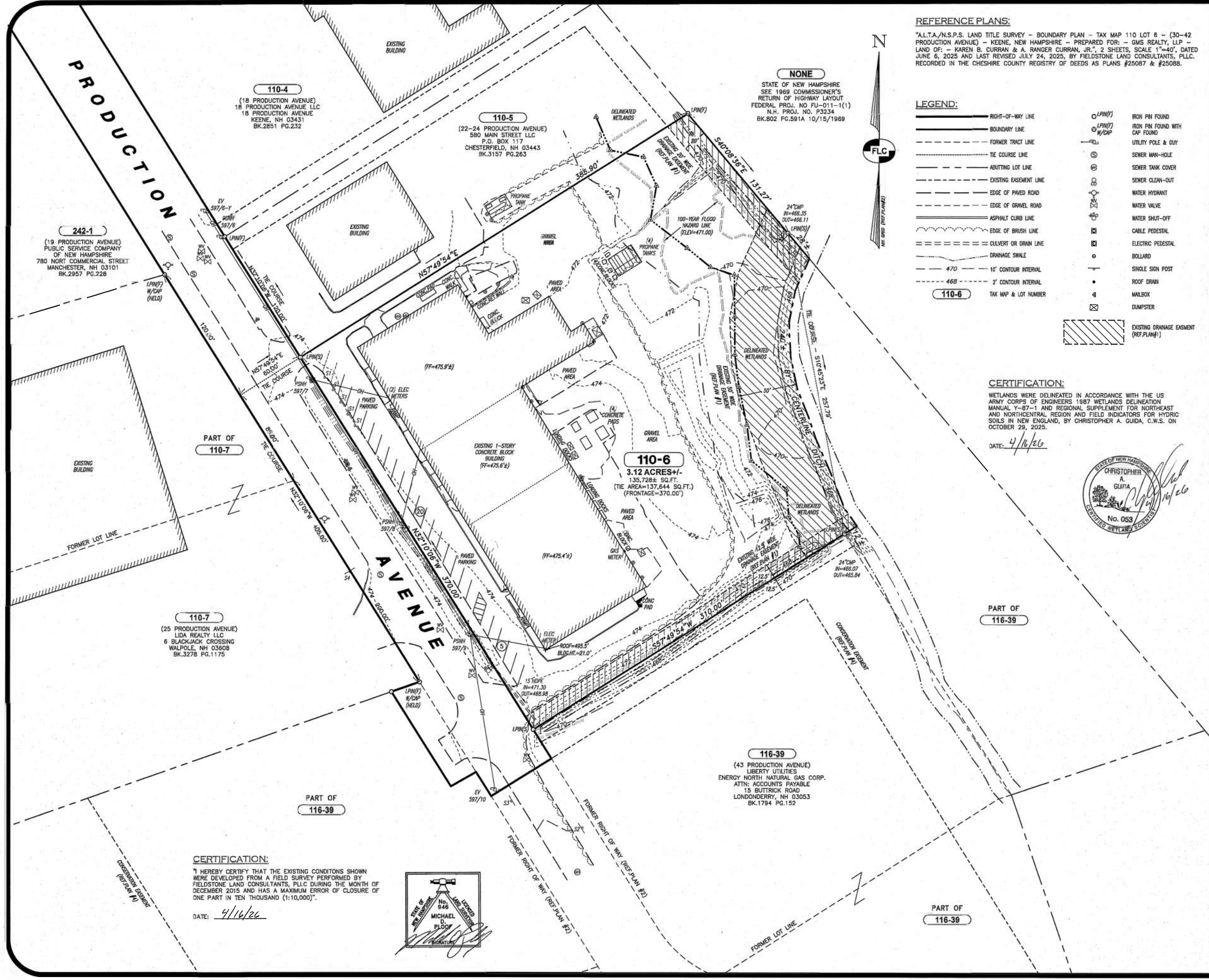
FIELDSTONE

LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055  
45 Roxbury Street, Keene, NH 03431  
Phone: (603)-672-5456 Fax: (603)-413-5456  
www.FieldstoneLandConsultants.com

REV.	DATE	DESCRIPTION	C/O	DR	CK

FILE: 3902CV01B.dwg    PROJ. NO. 3902.01    SHEET: CV-1



REFERENCE PLANS:

"A.L.T.A./N.S.P.S. LAND TITLE SURVEY - BOUNDARY PLAN - TAX MAP 110 LOT 6 - (30-42 PRODUCTION AVENUE) - KEENE, NEW HAMPSHIRE - PREPARED FOR: - GMS REALTY, LLP - LAND OF: - KAREN B. CURRAN & A. RANGER CURRAN, JR., 2 SHEETS, SCALE 1"=40', DATED JUNE 6, 2025 AND LAST REVISED JULY 24, 2025, BY FIELDSTONE LAND CONSULTANTS, PLLC. RECORDED IN THE CHESHIRE COUNTY REGISTRY OF DEEDS AS PLANS #25087 & #25088.

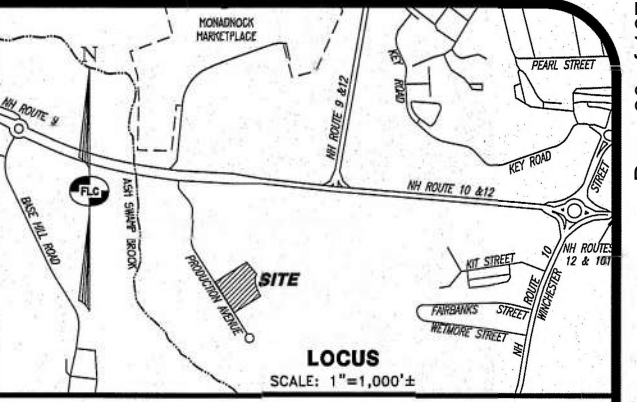
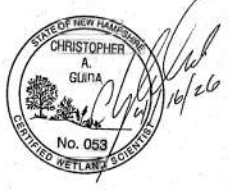
LEGEND:

- RIGHT-OF-WAY LINE
  - BOUNDARY LINE
  - - - - - FORMER TRACT LINE
  - - - - - TIE COURSE LINE
  - - - - - ABUTTING LOT LINE
  - - - - - EXISTING EASEMENT LINE
  - - - - - EDGE OF PAVED ROAD
  - - - - - EDGE OF GRAVEL ROAD
  - - - - - ASPHALT CURB LINE
  - - - - - EDGE OF BRUSH LINE
  - - - - - CULVERT OR DRAIN LINE
  - - - - - DRAINAGE SWALE
  - - - - - 470' 10' CONTOUR INTERVAL
  - - - - - 468' 2' CONTOUR INTERVAL
  - 110-6 TAX MAP & LOT NUMBER
- LPIN(F)
  - LPIN(F) W/CAP
  - UTILITY POLE & GUY
  - SENER MAN-HOLE
  - SENER TANK COVER
  - SENER CLEAN-OUT
  - WATER HYDRANT
  - WATER VALVE
  - WATER SHUT-OFF
  - CABLE PEDESTAL
  - ELECTRIC PEDESTAL
  - BOLLARD
  - SINGLE SIGN POST
  - ROOF DRAIN
  - MAILBOX
  - DUMPSTER
  - ▨ EXISTING DRAINAGE EASEMENT (REF.PLAN #1)

CERTIFICATION:

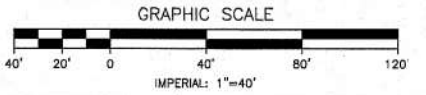
WETLANDS WERE DELINEATED IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS 1987 WETLANDS DELINEATION MANUAL Y-87-1 AND REGIONAL SUPPLEMENT FOR NORTHEAST AND NORTHCENTRAL REGION AND FIELD INDICATORS FOR HYDRIC SOILS IN NEW ENGLAND, BY CHRISTOPHER A. GUIDA, C.W.S. ON OCTOBER 29, 2025.

DATE: 4/16/26



NOTES:

- THE OWNER OF RECORD FOR TAX MAP 110 LOT 6 IS GMS REALTY, LLP, 356 RATHE ROAD, COLCHESTER, VT 05446. THE DEED REFERENCE FOR THE LOT IS BK.3321 PG.716 DATED AUGUST 25, 2025 IN THE CHESHIRE REGISTRY OF DEEDS.
- THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS FOR TAX MAP LOT 110-6 WITH ALL EASEMENTS AND IMPROVEMENTS.
- THE BOUNDARY INFORMATION SHOWN HEREON WAS DEVELOPED FROM REFERENCE PLAN #1 TOGETHER WITH A PRECISE TIE-IN FIELD SURVEY PERFORMED BY THIS OFFICE DURING THE MONTH OF SEPTEMBER 2024.
- HORIZONTAL ORIENTATION IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM. VERTICAL DATUM IS NAVD83. BOTH ARE BASED ON FIELD GPS OBSERVATIONS THAT WERE UPLOADED TO AND CALCULATED BY THE NOAA ONLINE POSITIONING USER SERVICE (OPUS). FINAL PLAN ORIENTATION WAS ADJUSTED SLIGHTLY TO MATCH REFERENCE PLANS #2 THRU #4.
- THE TOTAL AREA OF EXISTING TAX MAP LOT 110-6 IS 3.12± ACRES OR 135,728± SQ.FT. TOTAL FRONTAGE ALONG PRODUCTION AVENUE IS 370.00'.
- ZONING FOR THE LOT IS THE INDUSTRIAL DISTRICT. REQUIREMENTS ARE:  
 MIN. LOT AREA=NONE  
 MIN. WIDTH AT BUILDING LINE=NONE  
 MIN. ROAD FRONTAGE=50 FT.  
 MIN. FRONT SETBACK=20 FT.  
 MIN. REAR SETBACK=20 FT.  
 MIN. SIDE SETBACK=15 FT.  
 MAX. BUILDING COVERAGE=80%  
 MAX. IMPERVIOUS COVERAGE=80%  
 MAX. BUILDING HEIGHT=2 STORIES OR 35 FT.
- WETLANDS SHOWN HERE WERE DELINEATED IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS 1987 WETLANDS DELINEATION MANUAL Y-87-1 AND REGIONAL SUPPLEMENT FOR NORTHEAST AND NORTHCENTRAL REGION AND FIELD INDICATORS FOR HYDRIC SOILS IN NEW ENGLAND, BY CHRISTOPHER A. GUIDA, C.W.S. IN OCTOBER 2025.
- THE REAR PORTION OF THE SITE IS LOCATED IN THE ZONE AE SPECIAL FLOOD HAZARD AREA, HAVING A DETERMINED BASE FLOOD ELEVATION OF 471.00, AS DETERMINED FROM THE FLOOD INSURANCE STUDY (FIRM), CHESHIRE COUNTY, CITY OF KEENE (330023), NEW HAMPSHIRE, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, COMMUNITY MAP NUMBER: 330050266E, DATED MAY 23, 2006.
- THE SITE IS CURRENTLY SERVICED BY OVERHEAD & UNDERGROUND UTILITIES, MUNICIPAL WATER, SEWER AND GAS.
- ANY LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
- THERE ARE A TOTAL OF 25 REGULAR AND HANDICAPPED PARKING SPACES ON SITE.



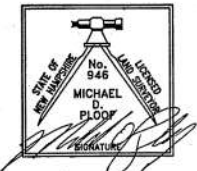
REV.	DATE	DESCRIPTION	C/O	DR	CK
A	12/01/25	ADD F.I.R.M. FLOOD LINE		TJB	MDP

**EXISTING CONDITIONS PLAN**  
**TAX MAP 110 LOT 6**  
**(30-42 PRODUCTION AVENUE)**  
**KEENE, NEW HAMPSHIRE**  
 PREPARED FOR:  
**GREEN MOUNTAIN ELECTRIC SUPPLY, INC.**  
 356 RATHE ROAD, COLCHESTER, VT 05446  
 LAND OF:  
**GMS REALTY, LLP**  
 356 RATHE ROAD, COLCHESTER, VT 05446

SCALE: 1"=40' OCTOBER 31, 2025

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

**CERTIFICATION:**  
 I HEREBY CERTIFY THAT THE EXISTING CONDITIONS SHOWN WERE DEVELOPED FROM A FIELD SURVEY PERFORMED BY FIELDSTONE LAND CONSULTANTS, PLLC DURING THE MONTH OF DECEMBER 2015 AND HAS A MAXIMUM ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000).  
 DATE: 4/16/26



**116-39**  
 (43 PRODUCTION AVENUE)  
 LIBERTY UTILITIES  
 ENERGY NORTH NATURAL GAS CORP.  
 ATTN: ACCOUNTS PAYABLE  
 15 BUTTRICK ROAD  
 LONDONDERRY, NH 03053  
 BK.1794 PG.152

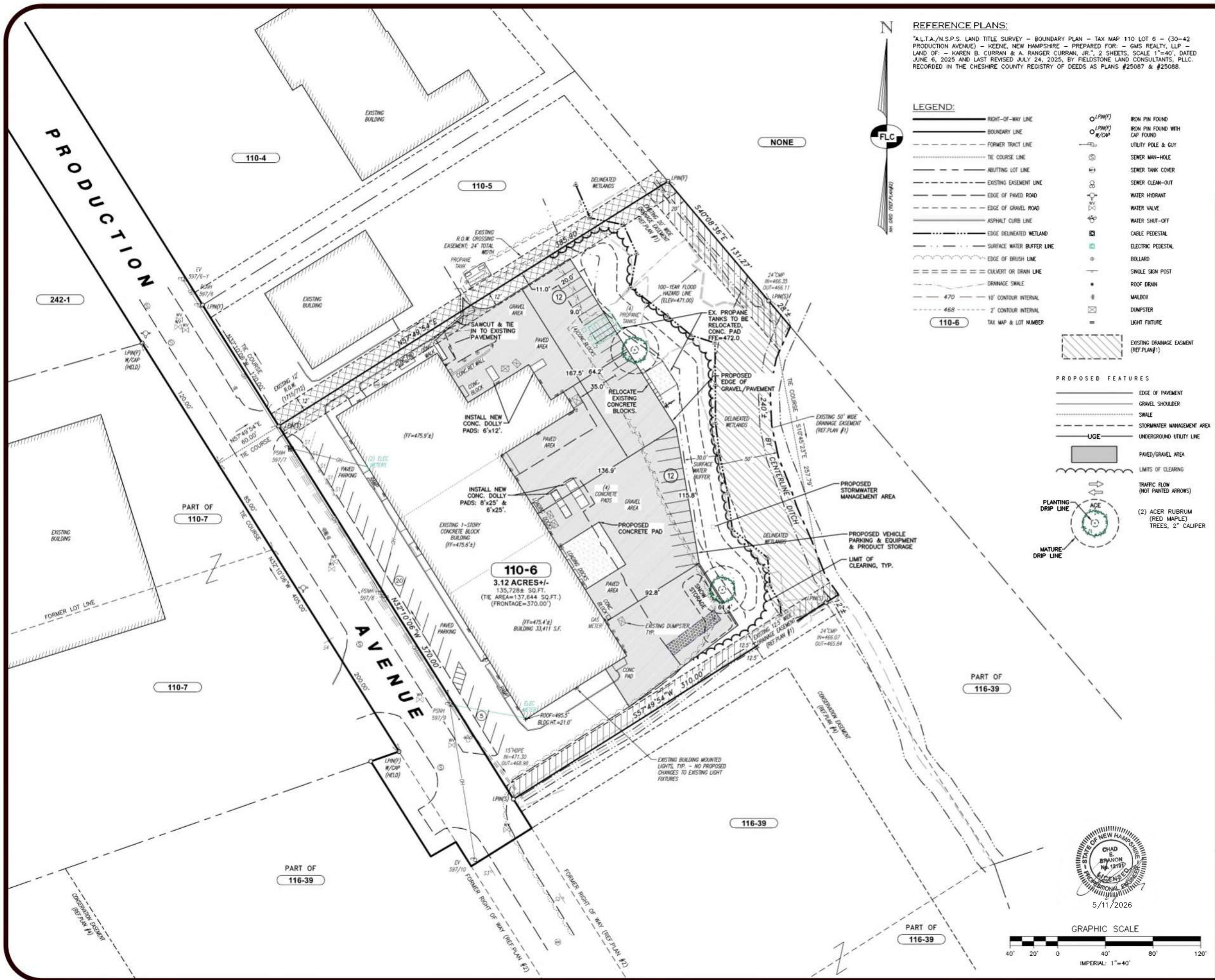
**110-7**  
 (25 PRODUCTION AVENUE)  
 LIDA REALTY LLC  
 6 BLACKJACK CROSSING  
 WALPOLE, NH 03608  
 BK.3278 PG.1175

**110-6**  
 3.12 ACRES±  
 135,728± SQ.FT.  
 (TIE AREA=137,644± SQ.FT.)  
 (FRONTAGE=370.00')

**110-5**  
 (22-24 PRODUCTION AVENUE)  
 580 MAIN STREET LLC  
 P.O. BOX 117  
 CHESTERFIELD, NH 03443  
 BK.3157 PG.263

**110-4**  
 (18 PRODUCTION AVENUE)  
 18 PRODUCTION AVENUE LLC  
 18 PRODUCTION AVENUE  
 KEENE, NH 03431  
 BK.2851 PG.232

**242-1**  
 (19 PRODUCTION AVENUE)  
 PUBLIC SERVICE COMPANY  
 OF NEW HAMPSHIRE  
 780 NORTH COMMERCIAL STREET  
 MANCHESTER, NH 03101  
 BK.2957 PG.228



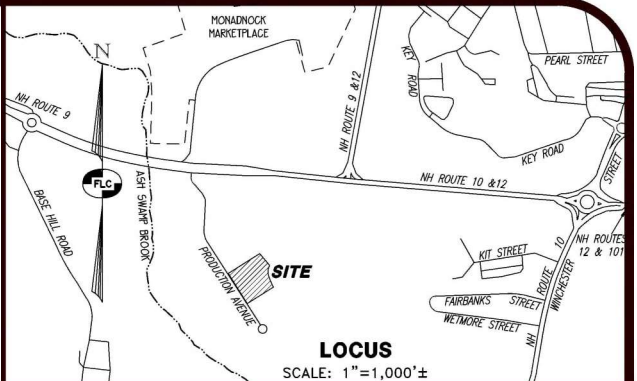
**REFERENCE PLANS:**  
 "A.L.T.A./N.S.P.S. LAND TITLE SURVEY - BOUNDARY PLAN - TAX MAP 110 LOT 6 - (30-42 PRODUCTION AVENUE) - KEENE, NEW HAMPSHIRE - PREPARED FOR: - GMS REALTY, LLP - LAND OF: - KAREN B. CURRAN & A. RANGER CURRAN, JR., 2 SHEETS, SCALE 1"=40', DATED JUNE 6, 2025 AND LAST REVISED JULY 24, 2025, BY FIELDSTONE LAND CONSULTANTS, PLLC. RECORDED IN THE CHESHIRE COUNTY REGISTRY OF DEEDS AS PLANS #25087 & #25088.

- LEGEND:**
- RIGHT-OF-WAY LINE
  - BOUNDARY LINE
  - - - FORMER TRACT LINE
  - TIE COURSE LINE
  - - - ABUTTING LOT LINE
  - - - EXISTING EASEMENT LINE
  - EDGE OF PAVED ROAD
  - EDGE OF GRAVEL ROAD
  - ASPHALT CURB LINE
  - - - EDGE DELINEATED WETLAND
  - - - SURFACE WATER BUFFER LINE
  - - - EDGE OF BRUSH LINE
  - - - CULVERT OR DRAIN LINE
  - - - DRAINAGE SWALE
  - 470 10' CONTOUR INTERVAL
  - 468 2' CONTOUR INTERVAL
  - 110-6 TAX MAP & LOT NUMBER



- LPIN(7) IRON PIN FOUND
- LPIN(7) IRON PIN FOUND WITH CAP FOUND
- W/CAP UTILITY POLE & GUY
- SEWER MAN-HOLE
- SEWER TANK COVER
- SEWER CLEAN-OUT
- WATER HYDRANT
- WATER VALVE
- WATER SHUT-OFF
- CABLE PEDESTAL
- ELECTRIC PEDESTAL
- BOLLARD
- SINGLE SIGN POST
- ROOF DRAIN
- MALEBOX
- DUMPSTER
- LIGHT FIXTURE

- PROPOSED FEATURES**
- EDGE OF PAVEMENT
  - GRAVEL SHOULDER
  - - - SWALE
  - - - STORMWATER MANAGEMENT AREA
  - - - UNDERGROUND UTILITY LINE
- UGS**
- PAVED/GRAVEL AREA
  - LIMITS OF CLEARING
  - TRAFFIC FLOW (NOT PAINTED ARROWS)
  - (2) ACER RUBRUM (RED MAPLE) TREES, 2" CALIPER
- PLANTING DRIP LINE**
- MATURE DRIP LINE**



- NOTES:**
- THE OWNER OF RECORD FOR TAX MAP 110 LOT 6 IS GMS REALTY, LLP, 356 RATHE ROAD, COLCHESTER, VT 05446. THE DEED REFERENCE FOR THE LOT IS BK.3321 PG.716 DATED AUGUST 25, 2025 IN THE CHESHIRE REGISTRY OF DEEDS.
  - THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED PARKING AND STORAGE AREA EXPANSION WITH ASSOCIATED SITE IMPROVEMENTS FOR TAX MAP LOT 110-6.
  - THE BOUNDARY INFORMATION SHOWN HEREON WAS DEVELOPED FROM REFERENCE PLAN #1 TOGETHER WITH A PRECISE TIE-IN FIELD SURVEY PERFORMED BY THIS OFFICE DURING THE MONTH OF SEPTEMBER 2024.
  - HORIZONTAL ORIENTATION IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM. VERTICAL DATUM IS NAVD88. BOTH ARE BASED ON FIELD GPS OBSERVATIONS THAT WERE UPLOADED TO AND CALCULATED BY THE NOAA ONLINE POSITIONING USER SERVICE (OPUS). FINAL PLAN ORIENTATION WAS ADJUSTED SLIGHTLY TO MATCH REFERENCE PLANS #2 THRU #4.
  - THE TOTAL AREA OF EXISTING TAX MAP LOT 110-6 IS 3.12± ACRES OR 135,728± SQ.FT. TOTAL FRONTAGE ALONG PRODUCTION AVENUE IS 370.00'.
  - ZONING FOR THE LOT IS THE INDUSTRIAL DISTRICT. REQUIREMENTS ARE:  
 MIN. LOT AREA=NONE  
 MIN. WIDTH AT BUILDING LINE=NONE  
 MIN. ROAD FRONTAGE=50 FT.  
 MIN. FRONT SETBACK=20 FT.  
 MIN. REAR SETBACK=20 FT.  
 MIN. SIDE SETBACK=15 FT.  
 MAX. BUILDING COVERAGE=80% (33,411 SF = 24.6%)  
 MAX. IMPERVIOUS COVERAGE=80% (EXISTING = 56893 SF) (PROPOSED = 87386 SF, 64.3%)  
 MAX. BUILDING HEIGHT=2 STORIES OR 35 FT.
  - WETLANDS SHOWN HERE WERE DELINEATED IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS 1987 WETLANDS DELINEATION MANUAL V-87-1 AND REGIONAL SUPPLEMENT FOR NORTHEAST AND NORTHCENTRAL REGION AND FIELD INDICATORS FOR HYDRIC SOILS IN NEW ENGLAND, BY CHRISTOPHER A. GUIDA, C.W.S. IN OCTOBER 2025.
  - THE REAR PORTION OF THE SITE IS LOCATED IN THE ZONE AE SPECIAL FLOOD HAZARD AREA, HAVING A DETERMINED BASE FLOOD ELEVATION OF 471.00, AS DETERMINED FROM THE FLOOD INSURANCE STUDY (FIRM), CHESHIRE COUNTY, CITY OF KEENE (3300023), NEW HAMPSHIRE, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, COMMUNITY MAP NUMBER: 33005C0266E, DATED MAY 23, 2006.
  - THE SITE IS CURRENTLY SERVICED BY OVERHEAD & UNDERGROUND UTILITIES, MUNICIPAL WATER, SEWER AND GAS.
  - ANY LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
  - THERE ARE A TOTAL OF 25 EXISTING REGULAR AND ADA PARKING SPACES. THERE ARE 24 PROPOSED PARKING SPACES, LESS THAN 100% INCREASE.
  - DUMPSTERS ON SITE WILL BE SET IN EXISTING LOCATIONS, FOLLOWING PAVING; NO CHANGE
  - SNOW TO BE STORED ON SITE. SNOW CANNOT BE PUSHED INTO OR STORED WITHIN THE 30' SURFACE WATER BUFFER.

B	5/11/26	REV. PER STAFF REVIEW	CJC	JEN
A	3/9/26	REV. PER PRELIMINARY STAFF REVIEW	---	CLR
REV.	DATE	DESCRIPTION	C/O	DR
			CK	

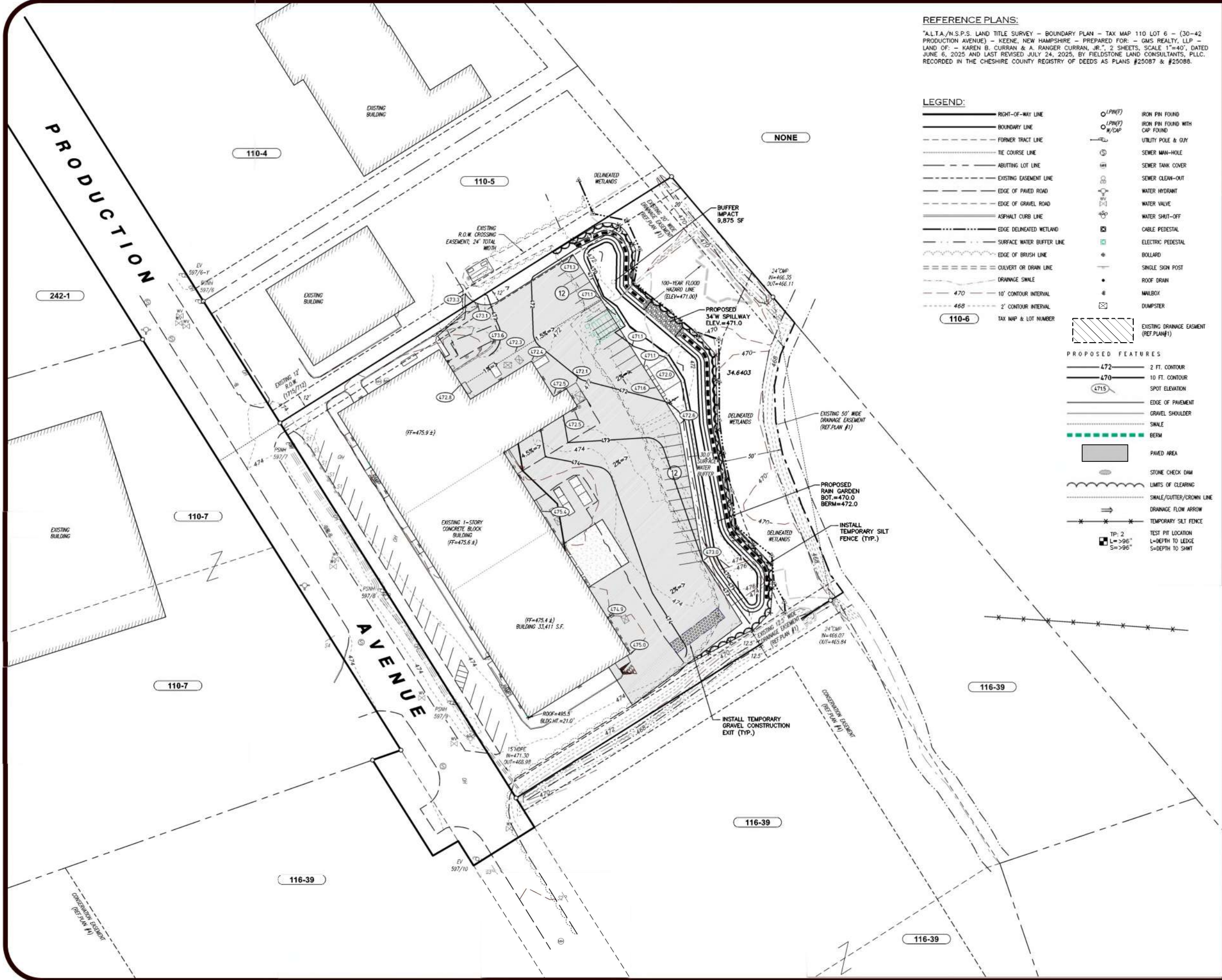
**SITE PLAN**  
**TAX MAP 110 LOT 6**  
**(30-42 PRODUCTION AVENUE)**  
**KEENE, NEW HAMPSHIRE**  
 PREPARED FOR:  
**GREEN MOUNTAIN ELECTRIC SUPPLY, INC.**  
 356 RATHE ROAD, COLCHESTER, VT 05446  
 LAND OF:  
**GMS REALTY, LLP**  
 356 RATHE ROAD, COLCHESTER, VT 05446

SCALE: 1"=40' APRIL 17, 2026

Surveying + Engineering + Land Planning + Permitting + Septic Designs

**FIELDSTONE**  
**LAND CONSULTANTS, PLLC**  
 206 Elm Street, Milford, NH 03055  
 45 Roxbury Street, Keene, NH 03431  
 Phone: (603) 672-5456 Fax: (603) 413-5456  
 www.FieldstoneLandConsultants.com

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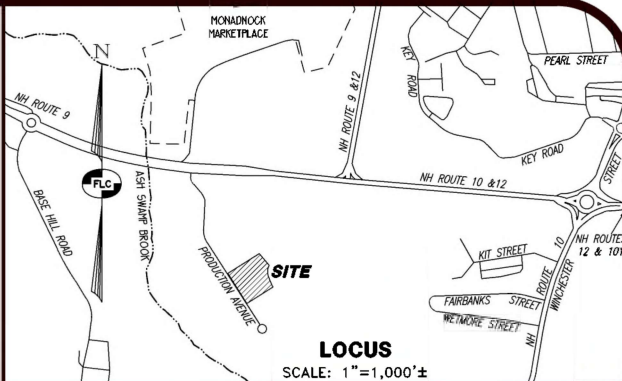


REFERENCE PLANS:

\*ALTA/N.S.P.S. LAND TITLE SURVEY - BOUNDARY PLAN - TAX MAP 110 LOT 6 - (30-42 PRODUCTION AVENUE) - KEENE, NEW HAMPSHIRE - PREPARED FOR: - GMS REALTY, LLP - LAND OF: - KAREN B. CURRAN & A. RANSER CURRAN, JR. - 2 SHEETS, SCALE 1"=40', DATED JUNE 6, 2025 AND LAST REVISED JULY 24, 2025, BY FIELDSTONE LAND CONSULTANTS, PLLC. RECORDED IN THE CHESHIRE COUNTY REGISTRY OF DEEDS AS PLANS #25087 & #25088.

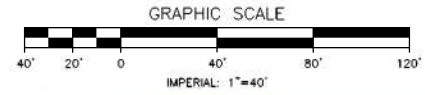
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  - - - DRAINAGE SWALE
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  - SEWER MAN-HOLE
  - SEWER TANK COVER
  - SEWER CLEAN-OUT
  - WATER HYDRANT
  - WATER VALVE
  - WATER SHUT-OFF
  - CABLE PEDESTAL
  - ELECTRIC PEDESTAL
  - BOLLARD
  - SINGLE SIGN POST
  - ROOF DRAIN
  - MAILBOX
  - DUMPSTER
- ▨ EXISTING DRAINAGE EASEMENT (REF.PLAN #1)
- PROPOSED FEATURES**
- 472 2 FT. CONTOUR
  - 470 10 FT. CONTOUR
  - 471.5 SPOT ELEVATION
  - EDGE OF PAVEMENT
  - GRAVEL SHOULDER
  - SWALE
  - BERM
  - PAVED AREA
  - STONE CHECK DAM
  - LIMITS OF CLEARING
  - SWALE/GUTTER/CROWN LINE
  - DRAINAGE FLOW ARROW
  - TEMPORARY SILT FENCE
  - TEST PIT LOCATION  
L=DEPTH TO LEDGE  
S=DEPTH TO SHIRT



NOTES:

1. THE OWNER OF RECORD FOR TAX MAP 110 LOT 6 IS GMS REALTY, LLP, 356 RATHE ROAD, COLCHESTER, VT 05445. THE DEED REFERENCE FOR THE LOT IS BK.3321 PG.716 DATED AUGUST 25, 2025 IN THE CHESHIRE REGISTRY OF DEEDS.
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 MIN. REAR SETBACK=20 FT.  
 MIN. SIDE SETBACK=15 FT.  
 MAX. BUILDING COVERAGE=80%  
 MAX. IMPERVIOUS COVERAGE=80%  
 MAX. BUILDING HEIGHT=2 STORIES OR 35 FT.
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11. THERE ARE EXISTING 25 REGULAR AND HANDICAPPED PARKING SPACES ON SITE. THERE ARE 24 PROPOSED PARKING SPACES, LESS THAN 100% INCREASE.



B	5/11/26	REV. PER STAFF REVIEW	CJC	JEN	
A	3/9/26	REV. PER PRELIMINARY STAFF REVIEW	CLR	CEB	
REV	DATE	DESCRIPTION	C/O	DR	CK

**GRADING & DRAINAGE PLAN**  
**TAX MAP 110 LOT 6**  
**(30-42 PRODUCTION AVENUE)**  
**KEENE, NEW HAMPSHIRE**  
 PREPARED FOR:  
**GREEN MOUNTAIN ELECTRIC SUPPLY, INC.**  
 356 RATHE ROAD, COLCHESTER, VT 05448  
 LAND OF:  
**GMS REALTY, LLP**  
 356 RATHE ROAD, COLCHESTER, VT 05448

SCALE: 1"=40' APRIL 17, 2026

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May 07, 2026 - 9:35am - ELC-19  
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- PRIOR TO STARTING ANY WORK ON THE SITE THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS THEREOF IN NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICE STORM WATER MANUALS, VOLUME 1-3, LATEST EDITION.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PER PLANS AND DETAILS. PERMETER CONTROLS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES.
- INSTALL INLET PROTECTION AROUND ALL STORM DRAIN STRUCTURES. INLET PROTECTION BMP'S SHALL REMAIN UNTIL THE SITE IS STABILIZED. CONSTRUCTION OF STORMWATER BASINS AND TREATMENT SWALES SHALL OCCUR PRIOR TO AND EARTH MOVING OPERATION THAT WILL INFLUENCE STORM WATER RUNOFF.
- THE WORK AREA SHALL BE GRADED, SHAPED AND OTHERWISE DRAINED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE THE LIMITS OF THE WORK AREA.
- EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEN POSSIBLE.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EVERY 0.25-INCH OR GREATER RAINFALL. SEDIMENTS SHALL BE DISPOSED OF IN AN UPLAND AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND BE PERMANENTLY STABILIZED.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP'S ARE STABILIZED. THE SITE WILL BE SUBJECT TO ENVIRONMENTAL MONITORING.
- THE LAND AREA EXPOSED SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. ALL NON-ACTIVE DISTURBED AREAS SHALL BE STABILIZED WITHIN 30 DAYS OF THE DISTURBANCE. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF FINAL GRADING.
- DITCHES, SWALES AND DRAINAGE BASINS SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- AN AREA SHALL BE CONSIDERED STABILIZED IF ONE OF THE FOLLOWING HAS OCCURRED:
  - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
  - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
  - A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, HAS BEEN INSTALLED; OR
  - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES THAT ARE STEEPER THAN 3:1 (HORIZONTAL / VERTICAL). UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL USE NORTH AMERICAN GREEN BIONET SC150BN SHORT TERM BIODEGRADABLE DOUBLE-NET STRAW BLANKET, OR APPROVED EQUAL.
- ALL AREAS RECEIVING EROSION CONTROL STONE OR RIPRAP SHALL HAVE A GEOTEXTILE MATERIAL INSTALLED BELOW THE STONE (SEE APPROPRIATE DETAILS).
- ALL DISTURBED AREAS TO TURF FINISHED SHALL BE COVERED WITH A MINIMUM THICKNESS OF 6 INCHES OF COMPACTED LOAM. LOAM SHALL BE COVERED WITH THE APPROPRIATE SEED MIXTURE AS INDICATED BELOW:
 

PERMANENT SEED (LAWN AREAS)	LBS. / 1,000 SQ. FT.	PERMANENT SLOPE SEED MIX	LBS. / 1,000 SQ. FT.
CREeping RED FESCUE	0.92 LBS	CREeping RED FESCUE	0.80 LBS
PERENNIAL RYEGRASS	1.15 LBS	PERENNIAL RYEGRASS	0.69 LBS
KENTUCKY BLUEGRASS	0.58 LBS	REDTOP	0.12 LBS
REDTOP	0.12 LBS	ALSKIE CLOVER	0.12 LBS
		BIRDSFOOT TREFLOIL	

\*\*APPLICATION RATE TOTALS:  
2.8 LBS PER 1,000 SF\*\*      \*\*APPLICATION RATE TOTALS:  
1.85 LBS PER 1,000 SF\*\*
- TEMPORARY STABILIZATION OF DISTURBED AREAS: STRIPPED SOIL SHALL BE STOCKPILED UNCOMPACTED, AND STABILIZED AGAINST EROSION AS OUTLINED BELOW: SEED BED PREPARATION: 10-10-10 FERTILIZATION TO BE SPREAD AT THE RATE OF 7 LBS PER 100 SF AND AGRICULTURAL LIMESTONE AT A RATE OF 90 LBS PER 1000 SF AND INCORPORATED INTO THE SOIL. THE SOIL, FERTILIZER AND LIMESTONE SHALL BE TILLED TO PREPARE FOR SEEDING.

SEED MIXTURE: USE ANY OF THE FOLLOWING:

SPECIES	RATE PER 1,000 SF	DEPTH	SEEDING DATES
WINTER RYE	2.5 LBS	1 INCH	8/15 TO 9/15
OATS	2.5 LBS	1 INCH	4/15 TO 10/15
ANNUAL RYEGRASS	1.0 LBS	0.25 INCH	8/15 TO 9/15

MULCHING: MULCH SHOULD BE USED ON HIGHLY ERODIBLE AREAS, AND WHERE CONSERVATION OF MOISTURE WILL FACILITATE PLANT ESTABLISHMENT AS FOLLOWS:

TYPE	RATE PER 1,000 SF	USE AND COMMENTS
STRAW	70 TO 90 LBS	MAY BE USED WITH PLANTINGS, MUST BE ANCHORED TO BE USED ALONE
WOOD CHIPS OR BARK MULCH	460 TO 920 LBS	USED WITH TREE AND SHRUB PLANTINGS
FIBROUS MATTING	AS RECOMMENDED BY MANUFACTURER	MUST BE BIODEGRADABLE. USE IN SLOPE AREAS AND AREAS DIFFICULT TO VEGETATE.
CRUSHED STONE	SPREAD TO GREATER THAN 1/2" THICKNESS	USE IN SPECIFIC AREAS AS SHOWN ON PLAN OR AS NEEDED

16. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE (CRITICAL TIME FRAMES OR VARIABLE SITES) THEN APPLY FERTILIZER AT A RATE OF 11 POUNDS PER 1,000 SF AND LIMESTONE AT A RATE OF 90 POUNDS PER 1,000 SF. FERTILIZER SHALL BE LOW PHOSPHATE (LESS THAN 2% PHOSPHORUS).

17. CAUTION SHOULD BE TAKEN WHEN THE PROPERTY IS LOCATED WITHIN 250 FEET OF A WATER BODY. IN THIS CASE ALL FERTILIZERS SHALL BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER. SLOW RELEASE FERTILIZERS MUST BE AT LEAST 50% SLOW RELEASE NITROGEN COMPONENT. NO FERTILIZER EXCEPT LIMESTONE SHALL BE APPLIED WITHIN 25 FEET OF THE SURFACE WATER. THESE ARE REGULATED LIMITATIONS.

18. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS (SEE WINTER CONSTRUCTION NOTES). NO DISTURBED AREAS SHALL BE LEFT EXPOSED DURING THE WINTER MONTHS.

19. A VIGOROUS DUST CONTROL PROGRAM SHALL BE APPLIED BY THE SITE CONTRACTOR. DUST SHALL BE MANAGED THROUGH THE USE OF WATER AND/OR CALCIUM CHLORIDE.

20. IN NO WAY ARE THE MEASURES INDICATED ON THE PLANS OR IN THESE NOTES TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGMENT TO INSTALL ADDITIONAL EROSION CONTROL MEASURES AS SITE CONDITIONS, WEATHER OR CONSTRUCTION METHODS WARRANT.

21. FOLLOWING PERMANENT STABILIZATION, TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND ACCUMULATED SEDIMENTATION IS TO BE DISPOSED OF IN AN APPROVED LOCATION, OUTSIDE OF JURISDICTIONAL WETLANDS.

22. THE CONTRACTOR AND OWNER ARE RESPONSIBLE FOR OBSERVING AND MANAGING THE PROJECT PER RSA 430:53 AND ACR 3800 REGARDING INVASIVE SPECIES (PLANTS AND INSECTS). NO INVASIVE SPECIES PLANT OR INSECT SHALL BE INTRODUCED ONTO THE SITE.

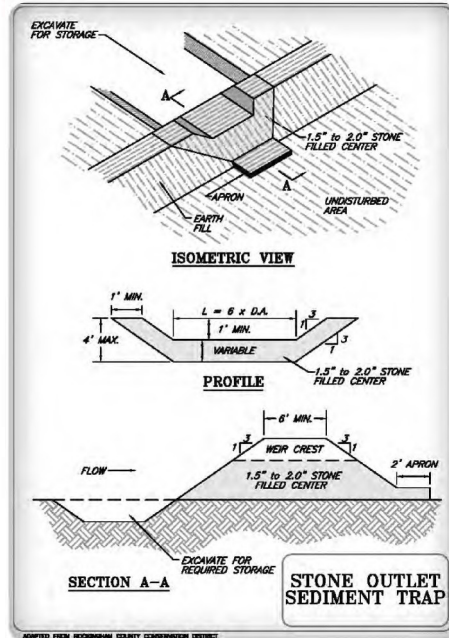
**EROSION CONTROL NOTES**

1  
DT-1

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED. STABILIZATION METHODS SHALL INCLUDE SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL OR PROPERLY INSTALLED EROSION CONTROL BLANKETS COVERED WITH HAY. OTHER STABILIZATION OPTIONS ARE TO BE APPROVED BY THE APPROPRIATE AGENCIES AND THE DESIGN ENGINEER. IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER MONTHS THEN THE ROAD SHOULD BE CLEARED OF ACCUMULATED SNOW AFTER EACH STORM EVENT.

**WINTER CONSTRUCTION NOTES**

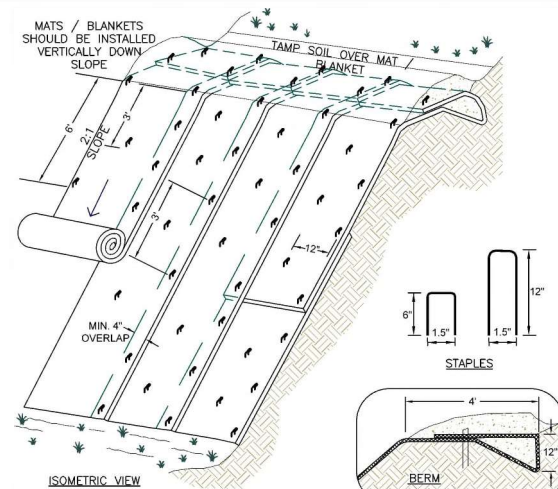
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DT-1



- The trap shall be installed as close to the disturbed area or source of sediment as possible;
  - The maximum contributing drainage area to the trap shall be less than 5 acres;
  - The minimum volume of the trap shall be 3,600 cubic feet of storage for each acre of drainage area;
  - The side slopes of the trap shall be 3:1 or flatter, and shall be stabilized immediately after their construction;
  - The outlet of the trap shall be a minimum of one foot below the crest of the trap and shall discharge to a stabilized area;
  - The trap shall be cleaned when 50 percent of the original volume is filled; and
  - The materials removed from the trap shall be properly disposed of and stabilized.
8. Refer to the New Hampshire Stormwater Manual, Volume 3 for alternative sediment trap options.

**SEDIMENT TRAP**

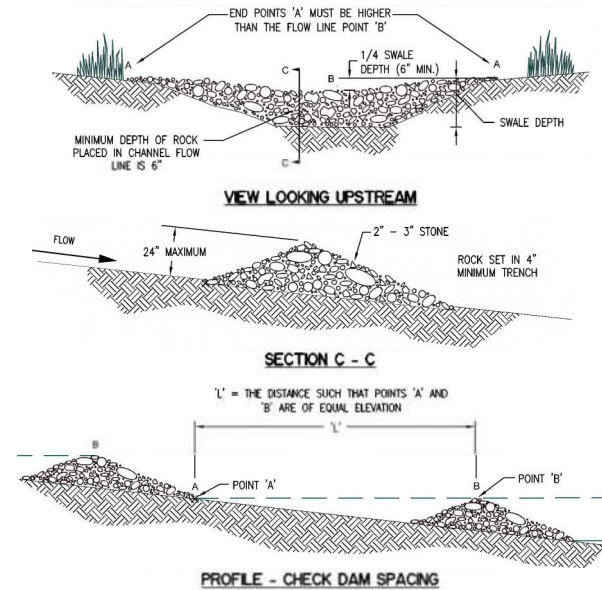
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DT-1



- NOTES:
- DIMENSIONS GIVEN IN THIS DETAIL ARE EXAMPLES. DEVICE SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
  - INSTALL STRAW/COCONUT FIBER EROSION CONTROL MAT SUCH AS NORTH AMERICAN GREEN BIONET SC150BN SHORT TERM BIODEGRADABLE DOUBLE-NET STRAW BLANKET OR EQUAL ON ALL SLOPES EXCEEDING 3' HORIZ. : 1' VERT.
  - THE EROSION CONTROL MATERIAL(S) SHALL BE ANCHORED WITH "U" SHAPED 11 GAUGE WIRE STAPLES OR WOODEN STAKES WITH A MINIMUM TOP WIDTH OF 1 INCH AND LENGTH OF 6 INCH.
  - SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS / BLANKETS SHALL HAVE GOOD SOIL CONTACT.
  - APPLY LIME, FERTILIZER AND PERMANENT SEEDING BEFORE PLACING BLANKETS.
  - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET AS SHOWN. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES OR STAKES IN APPROPRIATE LOCATIONS. REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN.
  - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
  - IN LOOSE SOIL CONDITIONS THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6 INCHES MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
  - THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIR TO REESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE RESEEDING, RESEEDING AND REMULCHED AS DIRECTED.
  - THERE SHALL BE NO PLASTIC FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES MATERIAL UTILIZED. THIS DOES NOT APPLY TO TURF REINFORCEMENT MATS.
  - TURF REINFORCEMENT MATS SHALL BE COVERED WITH SOIL TO PREVENT EXPOSURE OF THE MATS TO THE SURFACE.

**EROSION BLANKETS - SLOPE INSTALLATION**

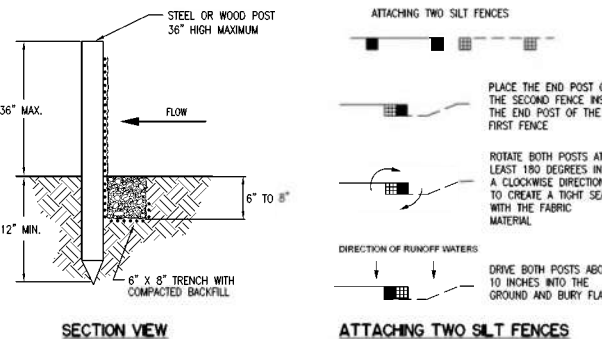
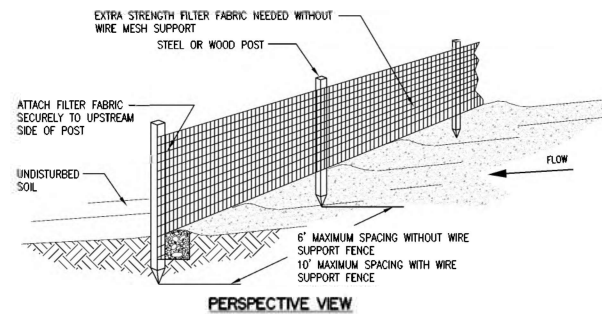
4  
DT-1



- NOTES:
- STONE CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
  - THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE CHECK DAM SHOULD BE LESS THAN ONE ACRE.
  - STONE CHECK DAMS SHOULD NOT BE USED IN A FLOWING STREAM.
  - STONE CHECK DAMS SHOULD BE CONSTRUCTED OF WELL-GRADED ANGULAR 2 TO 3 INCH STONE. THE INSTALLATION OF 3/4-INCH STONE ON THE UPGRADIENT FACE IS RECOMMENDED FOR BETTER FILTERING.
  - WHEN INSTALLING STONE CHECK DAMS THE CONTRACTOR SHALL KEY THE STONE INTO THE CHANNEL BANKS AND EXTEND THE STONE BEYOND THE ABUTMENTS A MINIMUM OF 18-INCHES TO PREVENT FLOW AROUND THE DAM.
  - STONE CHECK DAMS SHOULD BE REMOVED ONCE THE SWALE OR DITCH HAS BEEN STABILIZED UNLESS OTHERWISE SPECIFIED.

**STONE CHECK DAM**

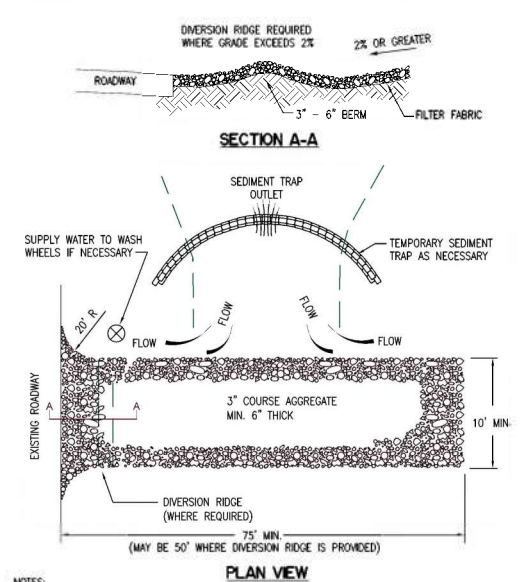
5  
DT-1



- NOTES:
- SILT FENCES SHOULD NOT BE USED ACROSS STREAMS, CHANNELS, SWALES, DITCHES OR OTHER DRAINAGEWAYS.
  - SILT FENCE SHOULD BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE AND THE ENDS OF THE SILT FENCE SHOULD BE FLARED UPSLOPE.
  - IF THE SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE OR THE PRESENCE OF HEAVY ROOTS THE BASE OF THE FABRIC SHOULD BE EMBEDDED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH STONE.
  - SILT FENCES PLACED AT THE TOE OF SLOPES SHOULD BE INSTALLED AT LEAST 6 FEET FROM THE TOE TO ALLOW SPACE FOR SHALLOW PONDING AND ACCESS FOR MAINTENANCE.
  - THE MAXIMUM SLOPE ABOVE THE FENCE SHOULD BE 2:1 AND THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHOULD BE 100 FEET.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  - SILT FENCES SHOULD BE REMOVED WHEN THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

**SILT FENCE**

6  
DT-1



- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - THE MINIMUM STONE USED SHOULD BE 3-INCH CRUSHED STONE.
  - THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
  - THE PAD SHOULD EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
  - THE PAD SHOULD SLOPE AWAY FROM THE EXISTING ROADWAY.
  - THE PAD SHOULD BE AT LEAST 6-INCHES THICK.
  - THE GEOTEXTILE FILTER FABRIC SHOULD BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
  - THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
  - NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

**GRAVEL CONSTRUCTION EXIT**

7  
DT-1



REV.	DATE	DESCRIPTION	C/O	DR	CK

**EROSION CONTROL DETAILS**  
**TAX MAP 110 LOT 6**  
**(30-42 PRODUCTION AVENUE)**  
**KEENE, NEW HAMPSHIRE**

PREPARED FOR:  
**GREEN MOUNTAIN ELECTRIC SUPPLY, INC.**  
 356 RATHE ROAD, COLCHESTER, VT 05446

SCALE: NONE      APRIL 17, 2026

Surveying + Engineering + Land Planning + Permitting + Septic Designs

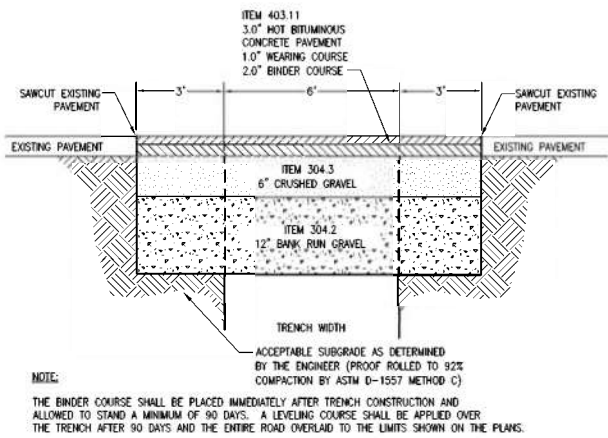
**FIELDSTONE LAND CONSULTANTS, PLLC**

206 Elm Street, Milford, NH 03055  
 45 Roxbury Street, Keene, NH 03431  
 Phone: (603) 672-5456 Fax: (603) 413-5456  
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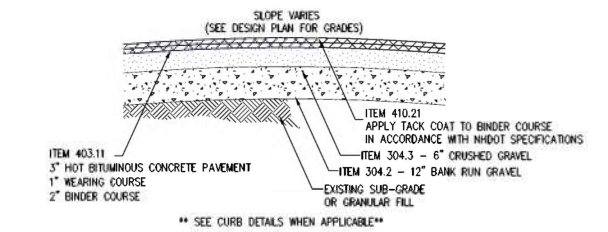
FILE: 390201.DWG      PROJ. NO. 3902.01      SHEET NO. DT-1

1. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF KEENE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS AND SHALL VERIFY THAT ALL THE INFORMATION SHOWN HEREON IS CONSISTENT, COMPLETE, ACCURATE, AND CAN BE CONSTRUCTED PRIOR TO AND/OR DURING CONSTRUCTION. FIELDSTONE LAND CONSULTANTS, PLLC, AS THE DESIGN ENGINEER, SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES, ERRORS, OMISSIONS, OR EXISTING UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION SO THAT REMEDIAL ACTION MAY BE TAKEN BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL CONTACT "DIGSAFE" 72 HOURS PRIOR TO THE START OF CONSTRUCTION (1-800-255-4877 IN NH, 1-888-344-7233 IN MA).
4. COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND SPECIAL CONDITIONS OF TOWN/CITY AGENCIES, SUCH AS THE PLANNING BOARD, ZONING BOARD, CONSERVATION COMMISSION AND OTHERS, IS MANDATORY AND IS THE RESPONSIBILITY OF THE OWNER.
5. ANY ALTERATION OF THIS DESIGN OR CHANGE DURING CONSTRUCTION MAY REQUIRE APPROVAL OF VARIOUS TOWN/CITY BOARDS OR AGENCIES AND SHALL BE DISCUSSED WITH THE OWNER AND FIELDSTONE LAND CONSULTANTS, PLLC PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE CITY DEPARTMENTS PRIOR TO CONSTRUCTION TO ARRANGE FOR NECESSARY INSPECTIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCURATE AS-BUILT INFORMATION OF ALL WORK, ESPECIALLY UNDERGROUND CONSTRUCTION OF UTILITY LINES, SERVICES, CONNECTIONS, ETC. AND APPROPRIATE TIES TO ABOVE GROUND PERMANENT STRUCTURES, FIELD SURVEY COORDINATES, OR SOME OTHER METHOD OF ESTABLISHING THE AS-BUILT CONDITION OF ALL CONSTRUCTION.
8. THE CONTRACTOR AND OWNER ARE RESPONSIBLE FOR OBSERVING AND MANAGING THE PROJECT PER RSA 430:53 AND AGR 3800 REGARDING INVASIVE SPECIES (PLANTS AND INSECTS). NO INVASIVE SPECIES PLANT OR INSECT SHALL BE INTRODUCED ONTO THE SITE.

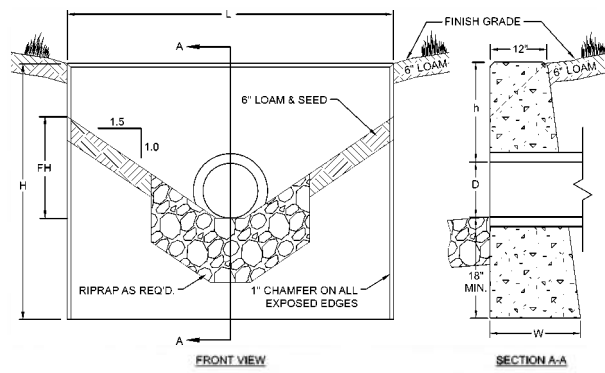
**GENERAL CONSTRUCTION NOTES** 1  
DT-2



**PAVEMENT TRENCH PATCH** 2  
DT-2



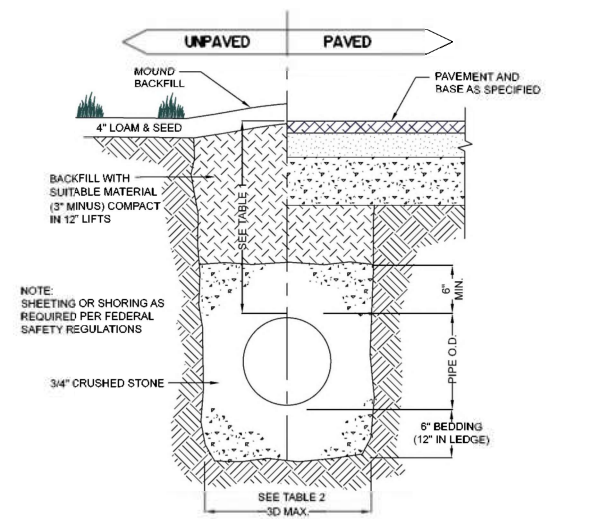
**PAVEMENT SECTION** 3  
DT-2



CULVERT DIAM.	HEADWALL LENGTH	HEADWALL HEIGHT	FILL HEIGHT	TOP HEIGHT	HEADWALL BOTTOM
D	L	H	FH	h	WIDTH W
INCHES					
FEET & INCHES					
12	4'-8"	3'-9"	1'-1"	1'-0"	1'-11.75"
15	5'-11"	4'-2"	1'-7"	1'-5"	2'-0"
18	6'-11"	4'-5"	1'-10"	1'-5"	2'-1"
24	8'-10"	4'-11"	2'-5"	1'-5"	2'-3"

\*HEADWALL SHALL BE STEEL REINFORCED. DESIGN TO BE DETERMINED BY MANUFACTURER.\*\*  
SCALE: N.T.S.

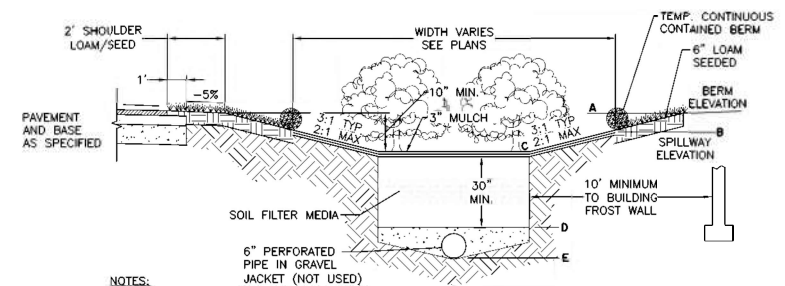
**HEADWALL - PRECAST CONCRETE (OR EQUAL)** 4  
DT-2



LOCATION	PIPE MATERIAL	MINIMUM COVER
PAVED ROADS	ALL	3 FT.
UNPAVED ROADS	ALL	2 FT.
DRIVEWAYS	ALL	1 FT.
UNPAVED AREAS	ALL	2 FT.

INSIDE DIAMETER	TOTAL WIDTH
12" TO 24"	I.D. + 24"
OVER 24"	2 x I.D.

**DRAINAGE TRENCH (TYPICAL)** 5  
DT-2



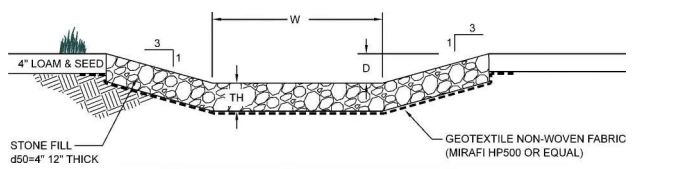
- NOTES:
1. DO NOT PLACE RAIN GARDEN SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING DRAINAGE AREA(S) HAS BEEN FULLY STABILIZED.
  2. TO PREVENT DEGRADATION OF INFILTRATION FUNCTION:
    - A. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
    - B. DO NOT COMPACT THE EXCAVATION.
    - C. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE RAIN GARDEN AREA DURING ANY STAGE OF CONSTRUCTION. FROM UNHSC BIORETENTION SOIL SPECIFICATION FEBRUARY 2017.
  - 2.1 SOIL MEDIA SPECIFIED ACCORDING TO PERFORMANCE REQUIREMENTS: PARTICLE SIZE DISTRIBUTION ACCORDING TO ASTM D422 (STANDARD TEST METHOD FOR PARTICLE-SIZE ANALYSIS OF SOILS).

- a. EXCLUDE ANY MATERIAL >4.76 mm - 0%
  - b. VERY COARSE SAND/GRAVEL: GRAVEL (2.0 TO 4.76 mm) 5% MAXIMUM (PERCENT BY DRY WEIGHT).
  - c. SAND (0.42 TO 2.0 mm) 60 - 85% (PERCENT BY DRYWEIGHT).
  - d. SILT (0.075 TO 0.42 mm) 20% MAXIMUM (PERCENT BY DRYWEIGHT).
  - e. CLAY (LESS THAN 0.075 mm) 5% MAXIMUM (PERCENT BY DRYWEIGHT).
- TABLE 1: ACCEPTABLE PARTICLE SIZE DISTRIBUTION OF FINAL BIORETENTION SOIL MIX.

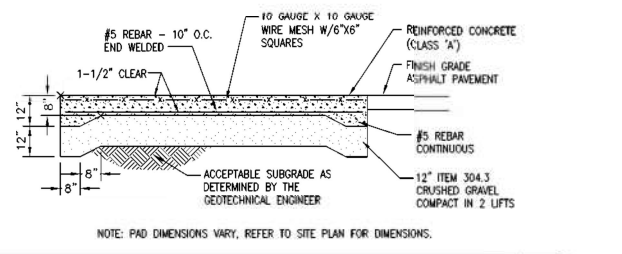
SIEVE #	SIEVE SIZE (mm)	% PASSING
4	0.187 (4.76)	100
10	0.075 (2)	95
40	0.017 (0.42)	40-15
200	0.003 (0.075)	10-20
>200	PAN	0-5

GARDEN #	ELEVATION				
	A	B	C	D	E
1	472.0	471.0	470.0	468.5	NA

**RAIN GARDEN-BIORETENTION TYPICAL SECTION** 6  
DT-2



**EMERGENCY SPILLWAY DETAIL** 7  
DT-2



**DOLLY PADS TYPICAL SECTION** 8  
DT-2

- RAIN GARDEN PLANTINGS:
1. LOWBUSH BLUEBERRY - 1-2' / #2
  2. SHEEP LAUREL - UP TO 4' / #2
  3. BLUE FLAG IRIS - 2-3' / #2
  4. CARDINAL FLOWER - 20" / #2
  5. NEW ENGLAND ASTER - UP TO 5' / #2
  6. BLACK EYED SUSAN - 1-3' HT. / #2



**CONSTRUCTION DETAILS**  
**TAX MAP 110 LOT 6**  
**(30-42 PRODUCTION AVENUE)**  
**KEENE, NEW HAMPSHIRE**

PREPARED FOR:  
**GREEN MOUNTAIN ELECTRIC SUPPLY, INC.**  
**356 RATHE ROAD, COLCHESTER, VT 05446**

SCALE: NONE APRIL 17, 2026

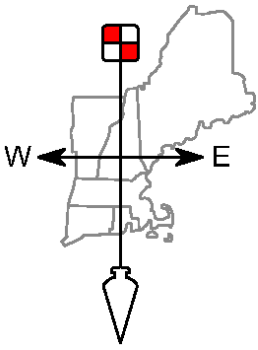
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REV.	DATE	DESCRIPTION	C/O	DR	CK

FILE: 3902D101.DWG PROJ. NO. 3902.01 SHEET NO. DT-2



# FIELDSTONE

Surveying ♦ Engineering  
Land Planning ♦ Septic Designs

LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055 - Phone: 603-672-5456 - Fax: 603-413-5456  
www.FieldstoneLandConsultants.com

**STORM WATER MANAGEMENT NARRATIVE  
TAX MAP PARCELS 110, LOT 6  
GREEN MOUNTAIN ELECTRIC SUPPLY, INC.  
30-42 PRODUCTION AVENUE  
KEENE, NEW HAMPSHIRE**

Prepared for:  
GMS Realty, LLP

April 17, 2026

## I) INTRODUCTION

On behalf of our client, GMS Realty, LLP, we are submitting this narrative to explain the drainage improvements that will be completed as part of the project. The subject lot is located at 30-42 Production Avenue in Keene, New Hampshire. The project consists of expanding the existing pavement at the rear of the building to provide more parking spaces, improve truck unloading areas, and improve the drainage of the loading dock areas.

The project will add 24 new parking spaces to the rear of the building with approximately 30,000 square feet of pavement and widening the parking lot by 30 feet to the east. The existing concrete dolly pads at the loading docks will be removed and replaced to improve the function of the loading docks for tractor trailer deliveries.

Our client has found that the rear parking lot does not drain well and has many puddles that remain after rainstorm events. The intent of the project was to improve truck deliveries and improve the drainage at the rear of the existing building.

## II) DRAINAGE DESIGN

In accordance with the City of Keene LDC, we are proposing a low-impact design to improve the drainage at the rear of the existing building. The entire rear parking area will be regraded and paved to drain away from the loading docks, and sheet flow into a proposed rain garden/bioretention basin. The bioretention basin will treat stormwater via the landscaping and the soil mixture in the bottom of the basin. This basin will hold the 25-Year storm event and the spillway is set at the 100-year storm elevation. The outlet spillway is 34-feet wide and will act as a level spreader that outlets towards the wetlands and the City Tax Ditch to the east. This system will improve the qualitative and quantitative impacts of the stormwater runoff to address the existing drainage issues on site and meet the City's requirement of LDC Section 21.2 for Drainage & Stormwater Management.



# CITY OF KEENE NEW HAMPSHIRE

ITEM #G.4.

**Meeting Date:** May 26, 2026

**To:** Planning Board

**From:** Megan Fortson, Planner

**Through:** Mari Brunner, Senior Planner

**Subject:** **PB-26-12 - Elm-Carroll Cottage Court - Major Site Plan & Cottage Court Conditional Use Permit** - Applicant Fieldstone Land Consultants, on behalf of owner Nuevo Transfers LLC, proposes to construct four townhouse-style multifamily buildings with a total of 14 units. The property is ~.75 ac and is in the Medium Density District.

---

**Recommendation:**

To review the attached staff report and application materials in preparation for the public hearing.

**Attachments:**

1. Staff Report
2. Application
3. Narrative
4. Architectural & Visual Appearance Narrative
5. Plan Set
6. Floor Plans & Elevations
7. Stormwater Management Report

**Background:**

The four subject parcels are each ~0.19-ac in size and occupy an area of land abutting Elm St to the west and Carroll St to the east. All four lots are currently undeveloped. The applicant proposes to construct a townhouse-style Cottage Court Development consisting of two 3-unit buildings and two 4-unit buildings. Site access will be provided by a curb cut along each street. Per Section 17.5.5.A.1 of the Land Development Code (LDC), Cottage Court Developments proposing the construction of five or more dwelling units are required to obtain both Major Site Plan and Conditional Use Permit approval from the Planning Board.

# STAFF REPORT

## PB-26-12 – MAJOR SITE PLAN & COTTAGE COURT CONDITIONAL USE PERMIT – ELM CITY COMMONS, ELM ST & CARROLL ST

### **Request:**

Applicant Fieldstone Land Consultants, on behalf of owner Nuevo Transfers LLC, proposes to construct four townhouse buildings with a total of 14 units on the parcels at 0 Carroll St; 0 Elm St; and 225 Elm St (TMP#s 536-049-000; 536-050-000; 536-055-000 & 536-056-000). The parcels are ~.75-ac in total and are located in the Medium Density District.

### **Background:**

The four subject parcels are each ~0.19-ac in size and occupy an area of land abutting Elm St to the west and Carroll St to the east (Figure 1). Both of these streets connect with Spruce St to the north and High St to the south. Adjacent uses include a mix of residential dwellings of varying densities ranging from single-family homes to buildings with 5+ apartments. All four lots are currently undeveloped.

The applicant proposes to construct a townhouse-style Cottage Court Development consisting of two 3-unit buildings and two 4-unit buildings. Site access will be provided by a curb cut along each street. Per Section 17.5.5.A.1 of the Land Development Code (LDC), Cottage Court

Developments proposing the construction of five or more dwelling units are required to obtain both Major Site Plan and Conditional Use Permit approval from the Planning Board.



*Figure 1. Aerial imagery from 2025 showing the subject parcels with frontage along both Elm St & Carroll St.*

### **Determination of Regional Impact:**

Staff have made a preliminary evaluation that the proposal does not appear to have the potential for “regional impact” as defined in RSA 36:55. The Board should make a final determination as to whether the proposal could have the potential for regional impact.

### **Completeness:**

The applicant requests exemptions from submitting a traffic analysis, soil analysis, historic evaluation, architectural and visual appearance analysis, and a screening analysis. Planning Staff recommend that the Board grant the requested exemptions and accept the application as “complete.”

# STAFF REPORT

## Departmental Comments:

- **Zoning:** Foundation corners will need to be pinned by a licensed surveyor and verified prior to pour to ensure that yard setbacks are not violated.
- **Engineering:** The City Engineer had several comments and questions related to the proposed water and sewer utilities. In response to these comments, the applicant submitted an updated plan set, which is currently in the process of being reviewed by the City Engineer's Office. Planning Staff will provide an update on this aspect of the application during the public hearing for the proposal at the Planning Board meeting on Tuesday, May 26<sup>th</sup>.
- **Building & Fire:** All proposed buildings will be required to comply with the NH State Building & Fire Codes.

## APPLICATION ANALYSIS:

### ARTICLE 17 – COTTAGE COURT CONDITIONAL USE PERMIT CRITERIA:

- 4 **Permitted Uses:** The applicant proposes to construct a 14-unit Cottage Court Development consisting of two triplexes and two townhomes with four units each. Per Table 17-1 of the Land Development Code, these uses are allowed in the Medium Density District subject to the issuance of a Conditional Use Permit by the Planning Board. This standard appears to be met.
- 5.1 **Development Types Allowed:** The proposal involves the development of a single parcel of land that will be owned and managed by a Condominium Association. The site is currently comprised of four separate parcels that will need to be merged. Staff recommend that the Board include conditions of approval related to the completion of a voluntary merger prior to final approval of the application as well as the submittal of draft and recorded condominium agreements and any other legal instruments that may be necessary for this proposal. This standard appears to be met.
- 5.2 **Dimensional Standards:** The proposed Cottage Court Development has been designed to comply with all applicable dimensional requirements (Table 2). Section 17.5.2.C.1 of the LDC allows Cottage Court Developments in the Medium Density District the flexibility of having a maximum height of 35' or 2.5 stories. The proposed townhouse buildings are three stories tall with a maximum height of 34.5-ft.

Due to the close proximity of the proposed buildings to the front setbacks along Elm St and Carroll St, the Zoning Administrator has requested that the Board include a condition of approval related to the foundation corners being pinned by a licensed surveyor and verified by Community Development Staff prior to pouring the foundation to ensure that the required side setbacks are not violated. This standard appears to be met.

# STAFF REPORT

Table 2: Required vs. proposed dimensional standards.

	<b>Required</b>	<b>Proposed</b>
<b>Minimum lot size</b>	~0.18-ac (8,000-sf)	~0.75-ac (32,494-sf)
<b>Minimum lot width at building line</b>	60-ft	~172.45-ft
<b>Minimum Tract Frontage</b>	50-ft	-186-ft on west side (along Elm St) -186-ft on east side (along Carroll St)
<b>Front Setback</b>	15-ft	-Minimum setback of 17.4-ft on west side -Minimum of 15.3-ft setback on east side
<b>Rear Setback</b>	15-ft	N/A
<b>Side Setback</b>	10-ft	-Minimum of 26.3-ft setback on north side -Minimum of 27.6-ft setback on south side
<b>Max Building Coverage</b>	45%	26.5%
<b>Max Impervious Coverage</b>	60%	50.4%
<b>Max Stories Above Grade / Building Height</b>	2.5 stories or 35' max	34.5-ft max height

### 5.3 Conditional Use Permit Standards:

A. **Dwelling Unit Size:** The proposed units will each have a 1,100-sf gross floor area where a maximum average of 1,250 is required and a 616-sf footprint per unit where a maximum of 900 is required. This standard appears to be met.

B. **Parking:** Cottage Court developments must provide at least one parking space per unit and no more than one parking space per bedroom. Each of the 14 units will have two bedrooms, therefore a minimum of 14 parking spaces and a maximum of 28 spaces are required. The plan shows 28 parking spaces – 1 in the garage for each unit and 1 in a surface-level parking space outside the garage (Figure 2). This standard appears to be met.

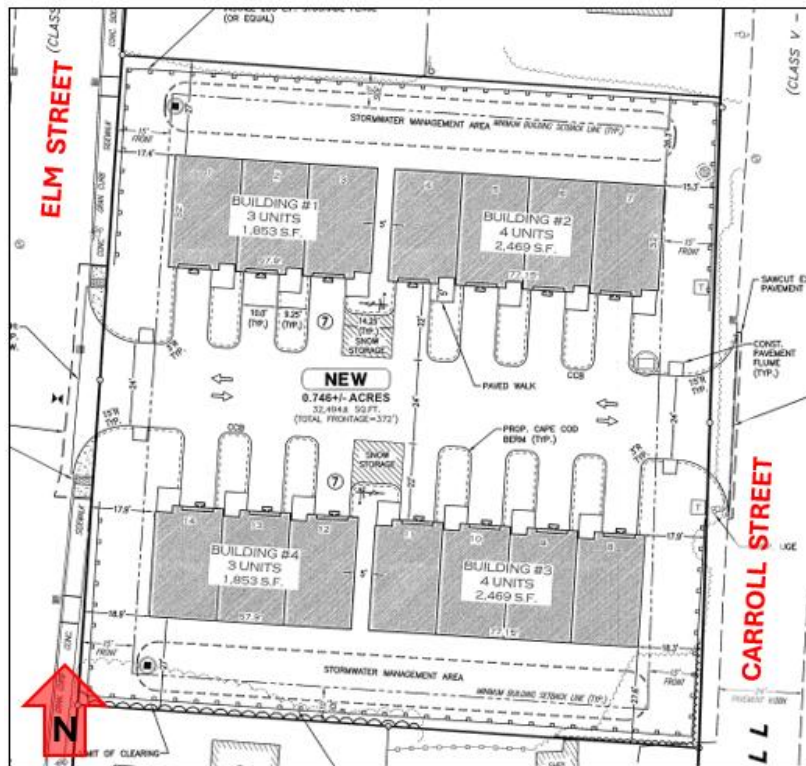
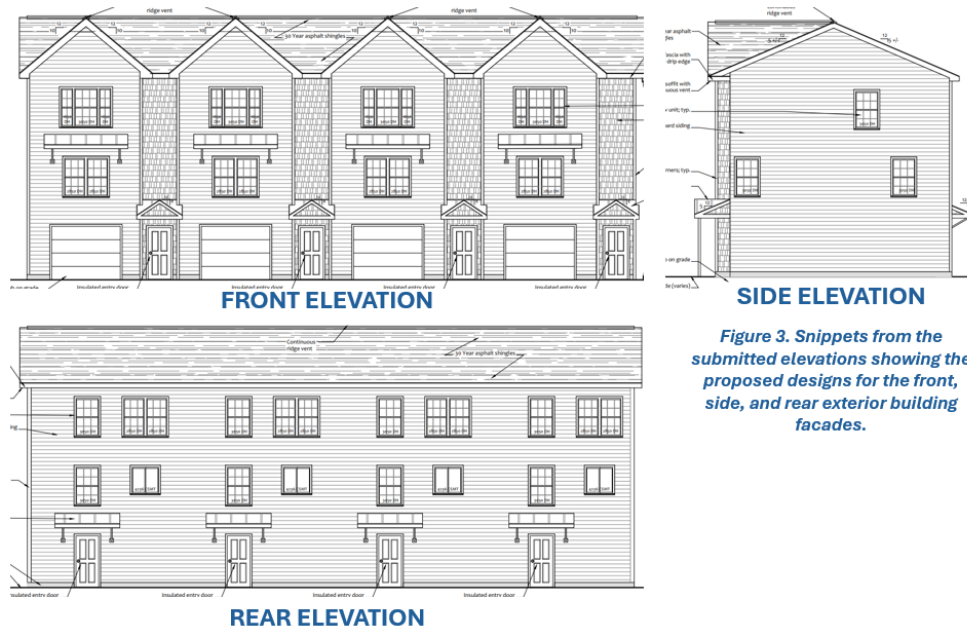


Figure 2. A snippet of the proposed conditions plan showing the proposed layout of the development.

## STAFF REPORT

- C. **Building Separation:** The narrative states that there will be a 5-ft separation between each building and exterior walls will be fire-rated to meet building and fire codes. This standard appears to be met.
- D. **Driveways:** The applicant proposes a curb cut on Elm St and another on Carroll St. Each curb cut will be designed to accommodate two-way traffic with a 24'-wide vehicle travel aisle connecting both sides. They are proposed to be ~30'-wide at the curb line and ~52'-wide at the property line where a maximum width of 25' and 50' are allowed, respectively. Planning Staff are waiting to hear back from the applicant regarding how they plan to meet this requirement and will share updated information with the Board during the public hearing for this application.



- E. **Screening:** The subject parcels are surrounded by residential uses of varying densities with heights that range from one to three stories. Given that the proposed building type is more intense than most of the surrounding building types, the applicant proposes to screen the site using 6'-tall stockade fencing along the north and south property lines.

The proposed landscaping plan currently shows a combination of 6'-tall stockade fencing with some landscaping along both street frontages. Planning Staff have requested that the applicant reduce the amount of fencing along the property boundaries facing the public rights-of-way and install landscaping as a softer and more pedestrian-friendly form of screening. At the time of this staff report, the applicant was working with the property owner to create an updated landscaping and screening plan. Updated materials will be shared with the Planning Board during the public hearing for this application.

- F. **Architectural Guidelines:** The proposed elevations show that the building exterior will be finished with a mix of horizontal vinyl siding and vinyl shake siding (Figure 3). The narrative states that the buildings will be finished with neutral colors that fit in other similar buildings in the neighborhood and around the City. The Board will need to determine if the applicant has satisfied the intent of this standard.

## STAFF REPORT

### ARTICLE 21 – SITE DEVELOPMENT STANDARDS:

2. **Drainage:** The site will be graded to convey drainage away from the buildings and driveways via grass swales to two bioretention basins (i.e. – “rain gardens”) located to the rear of each building. These basins will treat stormwater runoff using landscaping, a filter media layer, and underdrains that will tie into the City storm drains in the public rights-of-way. At the time of this staff report, Planning Staff were waiting to hear back from the City Engineer regarding whether the updated plans satisfy his comments related to the City water and sewer utilities.
3. **Sediment & Erosion Control:** Proposed erosion control measures include the installation of catch basin silt socks, silt fencing, and two stabilized construction entrances during construction. Following the completion of the project, permanent erosion control measures will consist of stone riprap and drip strips and established vegetation. Planning Staff recommend that the Board include conditions of approval related to the submittal of a security to cover the cost of sediment and erosion control measures as well as the inspection of these measures following their installation prior to the commencement of site work. This standard appears to be met.
4. **Snow Storage & Removal:** Two snow storage areas are identified on the proposed conditions plan adjacent to parking spaces at the center of the site. The narrative states that excess snow will be removed from the site as needed and can also be stored in the landscaping islands between units. This standard appears to be met.
5. **Landscaping:** The proposed landscaping plan shows the installation of four Red Maple trees along the entrances along with shrubs, including rhododendrons, silky dogwoods, and winterberries. As mentioned previously, Planning Staff have spoken with the applicant about installing perimeter landscaping in place of the proposed stockade fencing along the western and eastern property lines to screen the parking area from the road. Section 9.4.4.A of the LDC requires that a perimeter landscape area be created for any commercial parking lots visible from the public right-of-way. In accordance with subsection (6) of this standard, the applicant is requesting that the Board approve an alternative landscaping plan, if it is determined that the proposed design generally meets the intent of these standards.

Interior parking lot landscaping will include the installation of four Hawthorne trees in the parking lot landscaping islands. Rain gardens will be furnished with a mixture of low bush blueberries, sheep laurels, blue flag irises, and a mixture of flowers. Planning Staff recommend that the Board include conditions of approval related to the submittal of a security to cover the cost of landscaping as well as the completion of initial and final landscaping inspections.

6. **Screening:** The narrative states that transformers serving the development will be screened by shrubs. This standard appears to be met.
7. **Lighting:** The proposed light fixtures are full cut-off with a color rendering index of 90 and a color temperature of 3,000K. A total of 14 lights will be installed with one at the entrance of each unit. Lighting levels do not exceed 0.1-fc at the property line or 1-fc at the right-of-way line. The average illumination levels are 0.73-fc for the northern parking lot and 0.75-

## STAFF REPORT

fc for the southern parking lot. The uniformity ratio (the ratio of the average to the minimum lighting levels in footcandles) is 3.65-fc for the northern parking lot and 3.75-fc for the southern parking lot. This standard appears to be met.

8. **Sewer & Water:** The City Engineer provided the applicant with a variety of comments related to the proposed water and sewer utilities. Comments to be addressed include specific questions about the invert for the water main, calculations for the daily and peak water demand, and details for the proposed on-site pump station, amongst others. At the time of this staff report, Planning Staff are waiting to hear back from the City Engineer to see if these comments have been sufficiently addressed. An update will be provided during the public hearing for this application.

Planning Staff recommend that the Board include a condition of approval related to the submittal of a security to cover the cost of as-built plans showing the final location and specifications for all installed infrastructure following the completion of construction.

9. **Traffic & Access Management:** The anticipated traffic demand for this development is 81 vehicle trips on a weekday and 79.4 trips on a weekend day. During the weekday PM peak hour, 7.3 vehicle trips are expected, and 6.2 trips are expected during the weekday AM peak hour. The applicant submitted estimates using the most recent version of the ITE Trip Generation Manual and stated that they do not foresee this development having a negative impact on the function of Elm St. The City Engineer did not express any concerns regarding the trip generation estimates submitted with the application materials.
10. **Filling & Excavation:** The narrative states that proposed grading on the site will require filling in some areas and excavation in others. Fill material will be stockpiled on the site and some materials needed for construction will also be imported to the property. Any excavation within the public right-of-way will be handled as part of the Excavation Permit that will be submitted to and reviewed by the Public Works department. The underlying soil quality on the site will require the installation of pilings and grade beams to support the construction of the multi-story buildings, which will be addressed as part of the building permit review process for this project. It is not anticipated that more than 50 trucks of materials will be moved to and/or from the site. This standard appears to be met.
11. **Surface Waters & Wetlands:** There are no surface waters or wetlands present on the subject parcels. This standard is not applicable.
12. **Hazardous & Toxic Materials:** There are no known hazardous or toxic materials on the site. This standard is not applicable.
13. **Noise:** Noise levels will be consistent with a residential use. This standard appears to be met.
14. **Architecture & Visual Appearance:** See 17.5.3 subsection (F), above.

## STAFF REPORT

### **Recommended Motion:**

If the Board is inclined to approve this request, the following motion is recommended:

**“Approve PB-26-12 as shown on the plan set identified as “Multi-Family Residential Development; Tax Map 536 Lots 49, 50, 55 & 56; Elm City Commons” prepared by Fieldstone Land Consultants, PLLC at varying scales on April 17, 2026 and last revised on May 11, 2026, and in the elevations identified as “Elm City Commons; Elm and Carroll Streets; Keene, NH 03431” prepared by Sampson Architects at varying scales on April 14, 2026 with the following conditions:**

- 1. Prior to the final approval and signature of the plans by the Planning Board Chair, the following conditions precedent shall be met:**
  - a. Owner’s signature appears on the title page and proposed conditions plan.**
  - b. Submittal of five (5) full size paper copies and a flattened PDF version of the final plan set and elevations.**
  - c. Submittal of a recorded Voluntary Merger for the four (4) subject parcels.**
  - d. Submittal of a security to cover the cost of sediment and erosion control measures, landscaping, and as-built plans in a form and amount acceptable to the Community Development Director.**
  - e. Submittal of draft written documentation of any easements or/or other necessary legal instruments required for this application, which shall be subject to review by the City Attorney.**
  - f. Submittal of an updated plan set showing additional perimeter landscaping along Elm St & Carroll St and addressing all outstanding comments from the City Engineer.**
- 2. Subsequent to final approval and signature of the plans by the Planning Board Chair, the following conditions shall be met:**
  - a. Prior to the commencement of site work, a preconstruction meeting will be scheduled with Community Development Staff.**
  - b. Prior to the commencement of site work, the erosion and sediment control measures shall be inspected by the Community Development Department to ensure compliance with this application and all City of Keene regulations.**
  - c. Prior to the installation of building foundations, the building corners shall be pinned by a surveyor and inspected by Community Development Staff to ensure compliance with the required setbacks.**
  - d. Submittal of recorded easements and/or any other legal instruments necessary for this application to the Community Development Department.**
  - e. Following the installation of landscaping, the Community Development Department shall be contacted to perform an initial inspection.**
  - f. One year following the installation of all landscaping, the Community Development Department shall be contacted to perform a final landscaping inspection.”**



**CITY OF KEENE**  
NEW HAMPSHIRE

# Planning Application

<b>Project Number:</b>	PB-26-12	<b>Date Submitted:</b>	April 17, 2026
<b>Project Name:</b>	Elm-Carroll Cottage Court	<b>Zoning:</b>	MD
<b>Project Address:</b>	0 ELM ST.	<b>Parcel Size:</b>	0
<b>Parcel Number:</b>	536055000000000		

**Owner Information**

NUEVO TRANSFERS LLC <i>Name</i>	69A ISLAND ST. <i>Address</i>	KEENE NH 03431 <i>City/State/Zip</i>
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**Applicant Name**

John Noonan

**Applicant Phone #**

6036725456

**Authorized Agent Name**

Chad E. Branon

**Authorized Agent Phone #**

603-672-5456

**Project Description**

14 Units of Townhouse style buildings separated into 4 buildings and designed based on the Cottage Court requirements. There will be a central driveway, individual driveways and garages for each unit. The site will be serviced by municipal water and sewer.

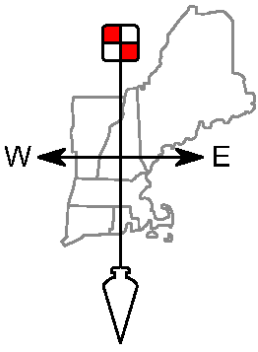
**Attachments**

***Narrative & Plan Set***

Narrative	Submitted
Location Map	Submitted
Existing Conditions Plan	Submitted
Proposed Conditions Plan	Submitted
Grading Plan	Submitted
Landscaping Plan	Submitted
Lighting Plan	Submitted
Elevations / Renderings	Submitted

***Technical Reports***

Drainage Report	Submitted
Traffic Report / Analysis	Exemption Requested
Soil Analysis	Exemption Requested
Historic Evaluation	Exemption Requested
Screening Analysis	Exemption Requested
Architectural Analysis	Submitted
Other Reports / Analyses	



# FIELDSTONE

Surveying ♦ Engineering  
Land Planning ♦ Septic Designs

LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055 - Phone: 603-672-5456 - Fax: 603-413-5456  
www.FieldstoneLandConsultants.com

Masiello Cottage Court Development  
Elm City Commons  
Site Plan, Cottage Court CUP Narrative

Tax Map Parcel 536, Lots 49, 50, 55 & 56  
Elm Street & Carroll Street, Keene, New Hampshire

Revised: May 11, 2026

**Project Narrative:**

Fieldstone Land Consultants, on behalf of Christopher Masiello, is submitting a Cottage Court Overlay development plan for Planning Board review. The proposal consists of developing Tax Map Lot 536-49, 50, 55 & 56 located on Elm Street and Carroll Street, in a Cottage Court townhouse residential development with 14 dwelling units. The applicant has decided to utilize the recently adopted Cottage Court Overlay regulations with a private central driveway with access to both Elm Street and Carroll Street. This layout will provide condominium style ownership for future homeowners with a goal of providing much needed affordable, owner-occupied housing.

The existing Tax Map Lots 536-49, 50, 55 & 56 have a combined size of 0.746 acres with 186 feet of frontage along Carroll Street and Elm Street (total of 372 feet of frontage). These lots will be joined into a single lot with a voluntary lot merger, following Planning Board review of the project. The lot is located in the Medium-Density District and is currently vacant. The property is cleared and there are no utilities or drainage within the lot. There are no wetlands present on or near the subject lot.

Four buildings are being proposed with 2 three-unit buildings and 2 four-unit buildings. All four buildings will have access from Elm Street and Carroll Street via a central driveway that runs through the new lot. The stabilized construction entrances will be used at both driveway curb cuts during construction. A homeowner's association will be formed to provide maintenance of the access driveway, common utilities, stormwater management systems, and site amenities.

The 3 story unit sizes will be equal and will consist of a garage at ground level and two-bedrooms. The building height will meet the 35' maximum height requirement. The building design contemplates a modern Townhouse style architecture and will meet the Cottage Court standards. The architectural plans for these units have been provided for review and comment.

The residential development will be serviced by the municipal water and sanitary sewer infrastructure. A blanket easement will be provided to the City of Keene for the infrastructure on site, but does not obligate the City to maintain the utilities on site. The water and sewer infrastructure on site will be owned and maintained by the Condominium Association. The stormwater management will be constructed on site to mitigate storm runoff, provide treatment of runoff, and will be maintained by the homeowner's association.

The development will require two applications from the Planning Board; a Major Site Plan application, and the Cottage Court Conditional Use Permit (CUP). The development standards for all applications are outlined below with descriptions on how the standards are met.

**Cottage Court Overlay CUP Standards (Article 17.5.3 of the LDC):**

**17.5.3.A Dwelling Unit Sizes:** All units will meet the maximum of 900 footprint area with 660 SF per unit, and 1,250 S.F. in average gross floor area (average for the whole development). The unit size is listed on SP-1 sheet and uses the interior floor space for the calculation.

**17.5.3.B Parking:** There are no parking lots proposed for this site. Each dwelling unit can fit at least 1 space per driveway and an additional 1 space in a single-car garage in each unit (28 spaces total).

**17.5.3.C Building Separation:** The buildings are separated to meet building and fire codes. There are four buildings to provide 14 Units total and the buildings are separated by 5 feet. This will require the exterior walls of the building to be fire rated construction.

**17.5.3.D Driveways:** The driveways will meet the requirements of this section. The main private drive will be 24' wide with cape cod asphalt curbing. The driveways will be 10' wide and a minimum of 22' long. Access of emergency vehicles, such as a fire ladder truck, will be from Elm Street and Carroll Street.

**17.5.3.E Internal Roads:** The development will not have a "road" with a defined right-of-way. There will be a central driveway from Carroll to Elm Street with each units' driveway off this central driveway.

**17.5.3.F Screening:** The proposed buildings will be screened from adjacent properties and the City Street. A proposed fence and a vegetated buffer are to be provided along road frontages of Elm Street and Carroll Street. A fence is proposed along the northern and southern property lines where residential homes abut the development.

**Site Development Standards (Article 21 of the LDC):**

**21.2. Drainage & Stormwater:** The site will be designed to convey the drainage away from the buildings and off the paved driveways. The stormwater will be managed to provide treatment and retention of rainstorm runoff waters. The systems have been designed to match or reduce the stormwater runoff that exists on the undeveloped site for the 2, 10, 25, and 50 year storm events, as required by the City of Keene. There are two stormwater bioretention basins located behind each building. These basins will treat water by utilizing landscaping, a filter media layer, and underdrains. The underdrains will tie into the City storm-drain systems in the streets.

**21.3 Sediment & Erosion Control:** Temporary erosion control measures consisting of catch basin silt-socks, silt fencing, and a stabilized construction entrance will be used during the construction process. The permanent erosion control measures will consist of stone rip-rap, stone drip strips, established vegetation, and asphalt pavement.

**21.4 Snow Storage & Removal:** Snow will be removed from the site during larger events. Smaller storms can be stored on the landscaped island between each driveway. A central striped island was created to allow for snow storage on both sides of the main driveway.

**21.5 Landscaping:** Landscaping will meet the City LDC standards and is provided along the driveway, front of the buildings and within the bioretention area. Plantings around the

bioretention basins will provide landscaping features to the rear of the buildings. As the individual driveways at each unit are not a standard parking lot layout, we are requesting that the Planning Board review and approve an Alternative Landscaping Plan for this development.

**21.6 Screening:** The northern and southern boundary will have a solid fencing installed with some perimeter trees to provide screening to the residential abutting properties. The transformers for the development will be screened by shrubs.

**21.7 Lighting:** All lighting will meet the City LDC standards and will not impact the public. Details are shown on the LT-1 Lighting Plan utilizing building mounted LED, full cut-off lights.

**21.8 Sewer & Water:** Sewer and water will be municipal services, which includes domestic water and sanitary sewer to each building. There are sewer and water mains in both Carroll and Elm Street. Upon review with the City Engineer, there is a central sewer trunk line proposed that will run into a pump station. The pump station will pump the sewer up to a gravity manhole prior to tying into the existing sewer manhole in Elm Street.

**21.9 Traffic & Access Management:** Access will be off Elm Street and Carroll Street with a private drive, built to City Road standards. The estimated trip generation for the site is 81 vehicle trip ends on a weekday (7 entering, 7 exiting). Estimated trip generation during weekday PM peak hour is 7.3 vehicle trips and weekday AM peak hour is 6.2 trips. The weekend Saturday trip ends is 79.4 trips. Based on the ITE Manual, the trip generation falls below the 100 vehicles or more peak hour traffic volume at the intersection with Elm Street and/or Carroll Street. We do not foresee this development having a negative impact on the function of Elm Street or require any improvements to the City Street. The connection between Carroll and Elm Street will provide options for the tenants to enter/leave the site, thereby reducing traffic impacts that would otherwise be seen with one driveway curb cut.

**21.10 Filling & Excavation:** The proposed grading will require filling in some areas and excavation in other areas. The materials used to fill on site, will be stock piled on the property. Select gravels and fill material for construction will need to be imported to the site. Any excavations within the City right-of-way will be outlined in the Excavation Permit with Keene Public Works. The underlying soil quality will require pilings and grade beams to support the multi-story building. The geotechnical engineer will outline this design as part of the building permit. It is not anticipated that more than 50 trucks of material will be moved on/off site.

**21.11 Surface Waters & Wetlands:** There are no wetlands or surface waters on the site.

**21.12 Hazardous & Toxic Materials:** There are none associated with this project.

**21.13 Noise:** Noise increase will be minimal for the residential use, consistent with abutters.

**21.14 Architecture & Visual Appearance:** The architecture will be a townhouse style building with gabled roofs and first story garages. The colors and tones of the siding will be neutral in color and fit in with similar buildings in the neighborhood and in the City. All of the homes in the surrounding neighborhood have gabled roofs and clapboard siding. There is a mix of wood clapboard siding and vinyl siding on the surrounding homes. The proposed buildings will have gabled roofs and vinyl clapboard siding that will be similar in appearance to these surrounding homes. We believe that the visual appearance of the proposed buildings will fit in with the surrounding neighborhood and be an improvement to the aesthetics in the neighborhood. Please refer to the architectural plans for building details.

## **Descriptive Narrative**

### **Existing / Proposed Uses:**

The four lots are located between Elm and Carroll streets is currently vacant. This proposal is to develop the lot with 14 residential units that will be for sale.

### **Description of Size / Intensity of Use:**

The four lots total approximately .8 acres. The lot is located in the medium density district. The 14 proposed units being proposed utilizing the newly adopted Cottage Court overlay standards. All lot coverage and frontage requirements are able to be met.

### **Description of Proposed Development:**

This application proposes to develop a vacant lot to provide additional housing units.

### **Traffic Impact:**

The proposed project will have limited impact on existing traffic patterns and will be consistent with the residential use of the neighborhood.

### **Description of Parking Demand / Impact:**

All required parking for the new dwelling unit exists currently on site. Adjacent to existing dwelling unit there are two existing parking locations. No changes to existing curb cut are planned.

### **Location of access points:**

Access to the proposed unit will be from the single existing driveway cut.

### **Other Descriptive Information:**

This proposal is limited in scope and is consistent with the neighborhood.

### **Drainage & Stormwater Management:**

There is minimal change being proposed to the lot. The intent is to maintain current drainage patterns.

**Sedimentation Control:**

Sedimentation control will continue to utilize existing structures.

**Snow Storage and Removal:**

Snow will be pushed adjacent to existing parking behind existing dwelling.

**Landscaping:**

Proposed landscaping will be consistent with the neighborhood.

**Screening:**

Trash receptacles will be located on the side of the structure, out of view from public roadways. Proposed screening will be achieved with landscaping, consistent with the neighborhood.

**Lighting:**

All exterior lighting will be residential in scale and used to light ingress and egress points.

**Water & Sewer:**

The proposed building will be tied to city water and sewer.

**Traffic & Access Management:**

There will be no need to manage access to the site given its residential use.

**Filling & Excavation:**

There will be no changes to the existing site. No filling or excavation are to take place.

**Surface Waters & Wetland:**

There are no wetlands on the site.

**Hazardous & Toxic Materials:**

There are no hazardous or toxic materials involved with this proposal.

**Noise:**

Noise impact from the proposed project will be minimal and consistent with adjacent residential uses.

**Architectural & Visual Appearance:**

The proposed buildings will be residential in use and is wood framed and have an exterior appearance, massing and detailing that is consistent with the neighborhood.

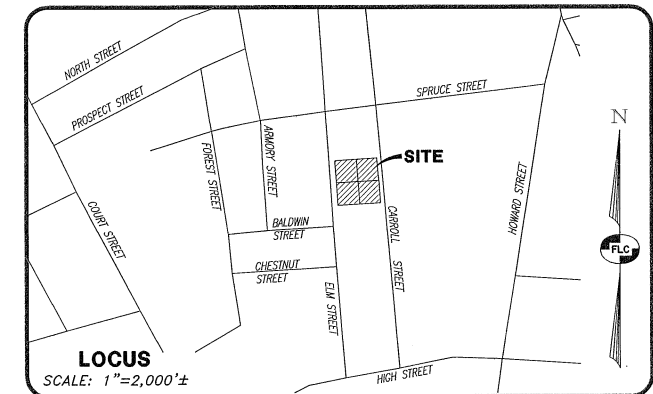
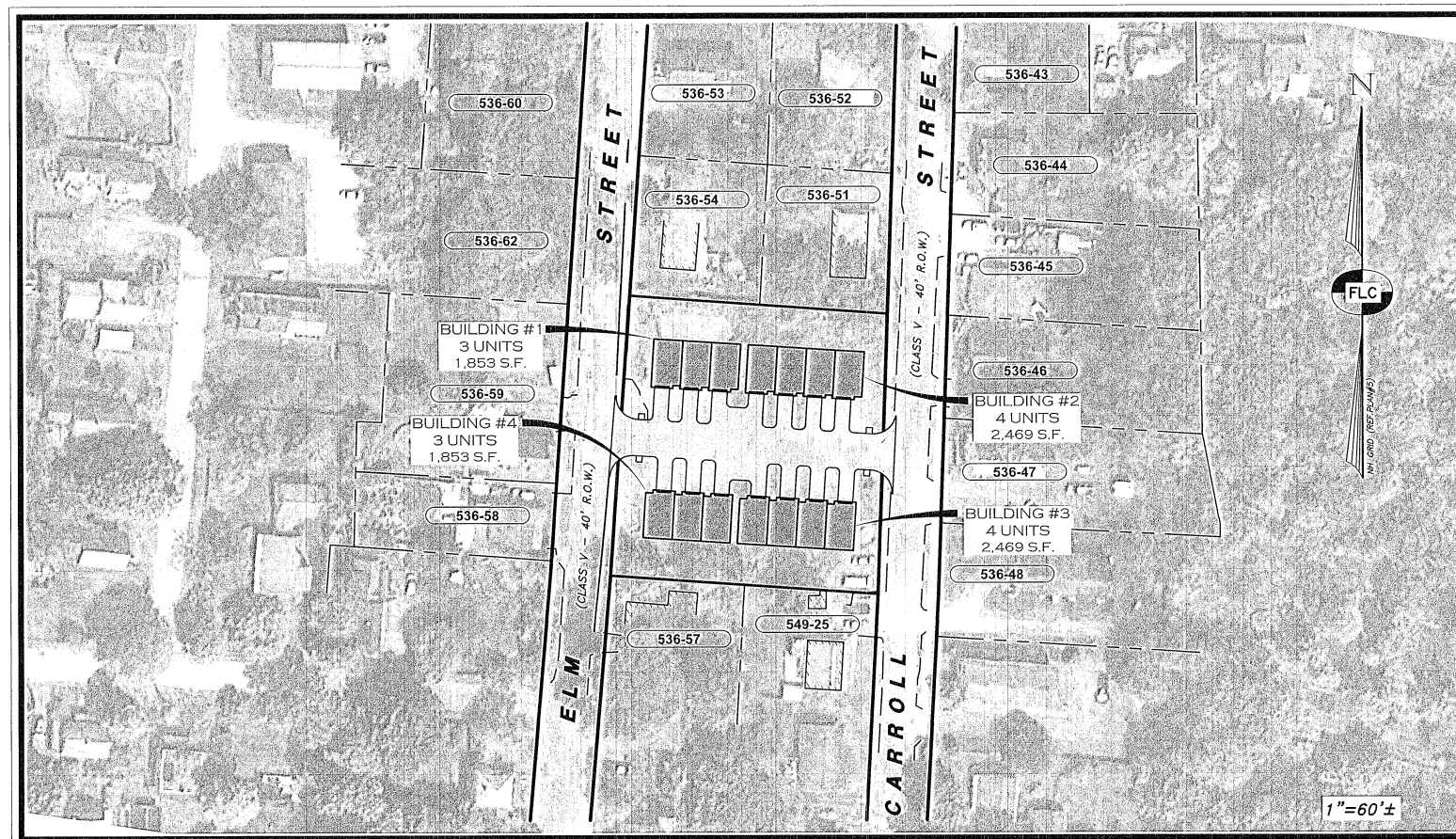
# MULTI-FAMILY RESIDENTIAL DEVELOPMENT

- TAX MAP 536 LOTS 49, 50, 55 & 56 -

## ELM CITY COMMONS

0 ELM STREET, 0 CARROLL STREET & 225 ELM STREET  
KEENE, NEW HAMPSHIRE

APRIL 17, 2026  
REVISED: MAY 11, 2026



SHEET INDEX		
PAGE	SHEET	TITLE
1	CV-1	COVER SHEET
2	EX-1	EXISTING CONDITIONS PLAN
3	SP-1	SITE LAYOUT PLAN
4	GR-1	GRADING, DRAINAGE & EROSION CONTROL PLAN
5	UT-1	UTILITY PLAN
6	LS-1	LANDSCAPING PLAN
7	LT-1	LIGHTING PLAN
8	DT-1	EROSION CONTROL DETAILS
9	DT-2	CONSTRUCTION DETAILS
10	DT-3	SEWER CONSTRUCTION DETAILS
11	DT-4	SEWER PUMP CHAMBER DETAILS
12	DT-5	WATER CONSTRUCTION DETAILS

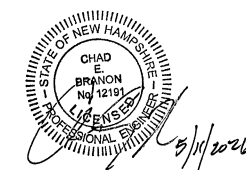
PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
118 PORTSMOUTH AVENUE, BUILDING D SUITE 204 - STRATHAM, NH 03885

LAND OF:  
**NUEVO TRANSFERS LLC**  
69A ISLAND STREET - KEENE, NH 03431

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

**FIELDSTONE**  
LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055  
45 Roxbury Street, Keene, NH 03431  
Phone: (603) 672-5456 Fax: (603) 413-5456  
www.FieldstoneLandConsultants.com



LAND-OWNER SIGNATURE

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY THE KEENE PLANNING BOARD

ON: \_\_\_\_\_ CERTIFIED BY: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_ AND \_\_\_\_\_  
SECRETARY: \_\_\_\_\_

REV.	DATE	DESCRIPTION	C/O	DR	CK
A	5/11/26	REVS PER CITY COMMENTS		CJC	JEN
FILE:	4200CV00A.dwg	PROJ. NO. 4200.00	SHEET: CV-1		

CONTACT DIG SAFE  
72 HOURS PRIOR  
TO CONSTRUCTION

**DIGSAFE.COM**  
OR DIAL 10 1 1  
CALL 1011 - KNOW WHAT'S BELOW

MAY 11, 2026 - 10:28:00 AM P:\G\_FLC\PROJECTS\04200\4200.00\DWG51

STRUCTURE INFORMATION:

SMH #1012  
RM=500.85  
INV. IN (SW)=497.40  
INV. OUT (SMH#1007)=497.38  
CENTER INV.=497.40  
SHELF=497.83

536-62  
RONER INVESTMENT  
PROPERTIES LLC  
PO BOX 173  
MARLBOROUGH, NH 03455  
BK 1970 PG 317 1/23/2003

536-59  
RONALD R. DUNN  
228 ELM STREET  
KEENE, NH 03431  
BK 1095 PG 89 6/14/1985

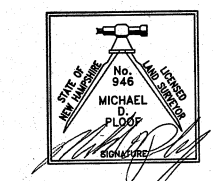
536-58  
BETH ELLEN FORCIER REV. TRUST  
224 ELM STREET  
KEENE, NH 03431  
BK 3181 PG 970 9/15/2021

536-57  
MURDOCK FAMILY REV. TRUST  
54 CENTERVIEW DRIVE  
SWANSEY, NH 03446  
BK 3151 PG 610 1/26/2021

CERTIFICATION:

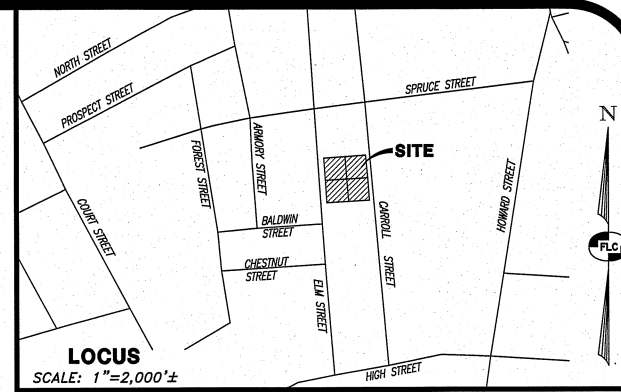
"I HEREBY CERTIFY THAT THE EXISTING CONDITIONS SHOWN WERE DEVELOPED FROM A FIELD SURVEY PERFORMED BY FIELDSTONE LAND CONSULTANTS, PLLC DURING THE MONTH OF JUNE 2025 AND HAS A MAXIMUM ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000)".

DATE: 5/11/26



LEGEND:

- RIGHT-OF-WAY LINE
BOUNDARY LINE
FORMER LOT LINE
ABUTTING LOT LINE
BUILDING SETBACK LINE
EDGE OF PAVEMENT
EDGE OF GRAVEL
CURB LINE
EDGE OF TREE LINE
EASEMENT LINE
10' CONTOUR INTERVAL
2' CONTOUR INTERVAL
STOCKADE FENCE
CULVERT
OVERHEAD UTILITY LINE
WATER LINE PER GIS
SEWER LINE
TAX MAP & LOT NUMBER
IRON PIN FOUND
IRON PIPE FOUND
IRON PIPE PER REF PLAN
UTILITY POLE & GUY
CATCH BASIN (SQUARE)
CATCH BASIN (ROUND)
DRAIN MANHOLE
SEWER MANHOLE
WATER HYDRANT
WATER VALVE
WATER SHUT-OFF
BUILDING & ADDRESS NO.
GRAVEL AREA



REFERENCE PLANS:

- 1. "CITY OF KEENE, N.H. - SUBDIVISION FOR - CARL & SHIRLEY FAIRBANKS," SCALE:1"=50', DATED: MAY 1, 1973, DRAWN BY: FRANK A. GLINE JR. RECORDED IN C.C.R.D 20025-00258.
2. "IN THE CITY OF KEENE - PLAN OF SUBDIVISION FOR - TERRY A. & FEDERICA A. BISHOP" SCALE:1"=50', DATED: 12/10/84, DRAWN BY: FRANK A. GLINE JR. RECORDED IN C.C.R.D 0051-0030A.
3. "URBAN SPACES I - BY - AMERICAN DESIGN HOMES - OWNER: PETER & LINDA A. DE SANTIS", SCALE: NOTED PER SECTION, DATED: MARCH 7, 1983, DRAWN BY: AMERICAN DESIGN HOMES. RECORDED IN C.C.R.D. PLAN C04-D00-0184.

NOTES:

- 1. THE OWNER OF RECORD FOR TAX MAP 536 LOT 49, TAX MAP 536 LOT 50, TAX MAP 536 LOT 55, AND TAX MAP 536 LOT 56 IS NUEVO TRANSFERS LLC, 69A ISLAND STREET, KEENE, NH 03431. DEED REFERENCE TO PARCEL IS BK. 3203 PG. 722, DATED 2/24/2022 IN THE C.C.R.D.
2. THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS OF TAX MAP 536 LOTS 49, 50, 55 & 56.
3. ZONING FOR THE ENTIRE PARCEL IS THE MEDIUM DENSITY (MD) DISTRICT. MINIMUM LOT AREA IS 8,000 S.F. MINIMUM LOT WIDTH AT BUILDING LINE IS 60 FT. MINIMUM ROAD FRONTAGE IS 50 FT. BUILDING SETBACKS ARE 15' FRONT, 10' SIDE AND 15' REAR. SURFACE WATER PROTECTION DISTRICT BUFFER IS 30 FT.
4. THE EXISTING IMPROVEMENTS, MONUMENTS AND LINES OF OCCUPATION SHOWN ARE THE RESULT OF AN ON-SITE FIELD SURVEY PERFORMED BY THIS OFFICE IN JUNE, 2025.
5. THE BOUNDARY INFORMATION SHOWN FOR EXISTING LOTS 536-49, 536-50, 536-55, AND 536-56 WAS DEVELOPED FROM THE REFERENCE PLANS CITED HEREON TOGETHER WITH A PRECISE FIELD SURVEY PERFORMED BY THIS OFFICE DURING THE MONTH OF JUNE 2025.
6. HORIZONTAL ORIENTATION IS NAD83 & VERTICAL DATUM IS NAVD88 PER A GPS CORS SOLUTION.
7. NO PORTION OF LOTS 536-49, 536-50, 536-55, AND 536-56 ARE SUBJECT TO THE 100 YEAR FLOOD PER FEMA FIRM MAP FOR THE CITY OF KEENE, NH. NUMBER 33005C0267E EFFECTIVE DATE MAY 23, 2006.
8. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED IN PART FROM PLANS OF RECORD TOGETHER WITH CITY GIS DATA & FIELD LOCATIONS. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.

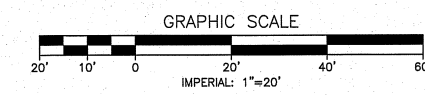


Table with columns: REV., DATE, DESCRIPTION, C/O, DR, CK. Row 1: A, 5/11/26, REVS PER CITY COMMENTS, CJC, MDP. Row 2: REV., DATE, DESCRIPTION, C/O, DR, CK.

EXISTING CONDITIONS PLAN
TAX MAP 536 LOTS 49, 50, 55, 56
(0 ELM STREET, 0 CARROLL STREET
& 225 ELM STREET)
KEENE, NEW HAMPSHIRE
PREPARED FOR:
CHRISTOPHER MASIELLO
118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885
LAND OF:
NUEVO TRANSFERS LLC
69A ISLAND STREET, KEENE, NH 03431

SCALE: 1" = 20' JUNE 18, 2025

Surveying + Engineering + Land Planning + Permitting + Septic Designs

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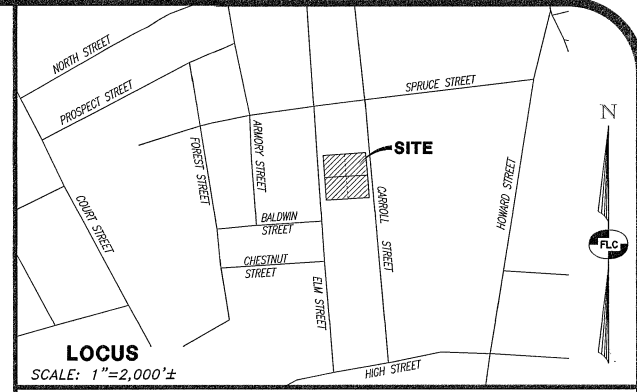
ZONING CHART - COTTAGE COURT OVERLAY DISTRICT		
	REQUIRED:	PROPOSED:
MULTI-FAMILY BUILDING HEIGHT	2.5 STORIES OR 35 FEET MAX.	34.5 FEET
AVG. GROSS AREA *	1,250 S.F. MAX.	1,100 S.F.
BUILDING FOOTPRINT	900 S.F. MAX.	616 S.F.
ROAD WIDTH	20-24 FEET	24 FEET
LOT AREA	8,000 S.F. MIN.	32,494 S.F.
ROAD FRONTAGE	50 FEET MIN.	186 FEET **
FRONT BLDG. SETBACK	15 FEET MIN.	16.1 FEET
REAR BLDG. SETBACK	15 FEET MIN.	N/A
SIDE BLDG. SETBACK	10 FEET MIN.	15.3 FEET
BUILDING COVERAGE	45% MAX.	26.5% = 8,624 S.F.
IMPERVIOUS COVERAGE	60% MAX.	50.4% = 16,377 S.F.
GREEN SPACE	40% MIN.	49.6%
AREA OF DISTURBANCE	-	30,000± S.F.

\* EXCLUDING GARAGES  
 \*\* THIS LOT HAS TWO ROAD FRONTAGES. 186' ON ELM ST. & 186' ON CARROLL ST.



**GENERAL NOTES CONTINUED:**

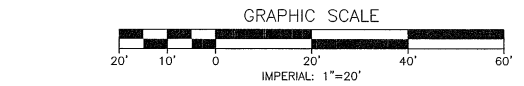
- TRASH SHALL BE HANDLED BY EACH HOMEOWNER; NO DUMPSTERS PROPOSED.
- A BUILDING PERMIT WILL NEED TO BE SUBMITTED FOR THE CONSTRUCTION OF THE DWELLING UNITS TO BE COMPLETED BY THE CONTRACTOR.
- EACH DWELLING UNIT WILL HAVE LARGE ADDRESS NUMBERS CLEARLY VISIBLE FOR EMERGENCY RESPONSES. ADDRESSES DETERMINED BY THE 911 MANAGER. EACH DWELLING UNIT WILL HAVE AN INDIVIDUAL MAILBOX.
- PROPOSED STORMWATER COLLECTION SYSTEMS WILL NOT BE OWNED OR MAINTAINED BY THE CITY. THE OWNER OF SUBJECT LOT IS RESPONSIBLE FOR ALL DRAINAGE MAINTENANCE.
- ANY TREE CANOPY EXTENDING INTO THE PLANE OF ROAD TRAVEL SURFACES SHALL BE MAINTAINED AT 13' - 6" MINIMUM.
- THE WATER AND SEWER WILL BE OWNED BY CONDO ASSOCIATION AND TIE INTO THE MUNICIPAL INFRASTRUCTURE. A BLANKET EASEMENT WILL BE RECORDED TO GRANT THE CITY ACCESS TO THE WATER AND SEWER UTILITIES ON SITE.



**LOCUS**  
 SCALE: 1"=2,000'±

- REFERENCE PLANS:**
- "CITY OF KEENE, N.H. - SUBDIVISION FOR - CARL & SHIRLEY FAIRBANKS," SCALE: 1"=50', DATED: MAY 1, 1973, DRAWN BY: FRANK A. GLINE JR. RECORDED IN C.C.R.D P0025-0025B.
  - "IN THE CITY OF KEENE - PLAN OF SUBDIVISION FOR - TERRY A. & FEDERICA A. BISHOP" SCALE: 1"=50', DATED: 12/10/84, DRAWN BY: FRANK A. GLINE JR. RECORDED IN C.C.R.D P0051-0030A.
  - "URBAN SPACES I - BY - AMERICAN DESIGN HOMES - OWNER: PETER & LINDA A. DE SANTIS", SCALE: NOTED PER SECTION, DATED: MARCH 7, 1983, DRAWN BY: AMERICAN DESIGN HOMES. RECORDED IN C.C.R.D. PLAN C04-D00-0184.

- GENERAL NOTES:**
- THE OWNER OF RECORD FOR TAX MAP 536 LOT 49, TAX MAP 536 LOT 50, TAX MAP 536 LOT 55, AND TAX MAP 536 LOT 56 IS NUEVO TRANSFERS LLC, 69A ISLAND STREET, KEENE, NH 03431. DEED REFERENCE TO PARCEL IS BK. 3203 PG. 722, DATED 2/24/2022 IN THE C.C.R.D.
  - THE PURPOSE OF THIS PLAN IS TO SHOW A CONDOMINIUM DEVELOPMENT WITH ASSOCIATED SITE IMPROVEMENTS FOR TAX MAP 536 LOT 49, TAX MAP 536 LOT 50, TAX MAP 536 LOT 55, AND TAX MAP 536 LOT 56, AS SHOWN.
  - ZONING FOR THE ENTIRE PARCEL IS THE MEDIUM DENSITY (MD) DISTRICT. MINIMUM LOT AREA IS 8,000 S.F. MINIMUM LOT WIDTH AT BUILDING LINE IS 60 FT. MINIMUM ROAD FRONTAGE IS 50 FT. BUILDING SETBACKS ARE 15' FRONT, 10' SIDE AND 15' REAR. SURFACE WATER PROTECTION DISTRICT BUFFER IS 30 FT.
  - THE EXISTING IMPROVEMENTS, MONUMENTS AND LINES OF OCCUPATION SHOWN ARE THE RESULT OF AN ON-SITE FIELD SURVEY PERFORMED BY THIS OFFICE IN JUNE, 2025.
  - THE BOUNDARY INFORMATION SHOWN FOR EXISTING LOTS 536-49, 536-50, 536-55, AND 536-56 WAS DEVELOPED FROM THE REFERENCE PLANS CITED HEREON TOGETHER WITH A PRECISE FIELD SURVEY PERFORMED BY THIS OFFICE DURING THE MONTH OF JUNE 2025.
  - HORIZONTAL ORIENTATION IS NAD83 & VERTICAL DATUM IS NAVD88 PER A GPS CORS SOLUTION.
  - NO PORTION OF LOTS 536-49, 536-50, 536-55, AND 536-56 ARE SUBJECT TO THE 100 YEAR FLOOD PER FEMA FIRM MAP FOR THE CITY OF KEENE, NH. NUMBER 33005C0267E EFFECTIVE DATE MAY 23, 2008.
  - THE UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED IN PART FROM PLANS OF RECORD TOGETHER WITH CITY GIS DATA & FIELD LOCATIONS. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
  - EXCESSIVE SNOW IS TO BE REMOVED OFF SITE IF SNOW STORAGE AREAS ARE FILLED.
  - ALL BUILDINGS SHALL BE CONSTRUCTED TO MEET ALL BUILDING CODES AND FIRE CODES. DESIGN PLANS OF THE BUILDINGS WILL BE PROVIDED WITH THE BUILDING PERMIT.



**LEGEND:**

- EXISTING FEATURES**
- RIGHT-OF-WAY LINE
  - BOUNDARY LINE
  - ABUTTING LOT LINE
  - BUILDING SETBACK LINE
  - EDGE OF PAVEMENT
  - EDGE OF GRAVEL
  - CURB LINE
  - EDGE OF TREE LINE
  - EASEMENT LINE
  - 10' CONTOUR INTERVAL
  - 2' CONTOUR INTERVAL
  - STOCKADE FENCE
  - CULVERT
  - OVERHEAD UTILITY LINE
  - WATER LINE PER GIS
  - SEWER LINE
  - TAX MAP & LOT NUMBER
- IRON PIN FOUND**  
**IRON PIPE FOUND**  
**IRON PIPE PER REF PLAN**  
**UTILITY POLE & GUY**  
**CATCH BASIN (SQUARE)**  
**CATCH BASIN (ROUND)**  
**DRAIN MAN-HOLE**  
**SEWER MAN-HOLE**  
**WATER HYDRANT**  
**WATER VALVE**  
**WATER SHUT-OFF**  
**BUILDING & ADDRESS NO.**

- PROPOSED FEATURES**
- EDGE OF PAVEMENT
  - CAPE COD BERM (CCB)
  - LIMITS OF CLEARING
  - EROSION CONTROL STONE
  - PAVEMENT AREA
  - CONCRETE WALK
  - MISCELLANEOUS SIGN
  - TRAFFIC SIGN
  - WALL MOUNTED LIGHT
  - TRAFFIC FLOW (NOT PAINTED ARROW)
  - UNIT NUMBER
  - STOCKADE FENCE
  - 10 FT. CONTOUR
  - 2 FT. CONTOUR
  - SPOT ELEVATION
  - BOTTOM OF CURB
  - TOP OF CURB
  - SWALE/GUTTER LINE
  - T.B.R. TO BE REMOVED
  - LIMITED COMMON AREA LINE
  - LIMITED COMMON AREA NUMBER
  - WATER LINE
  - SEWER LINE
  - SEWER FORCE MAIN
  - SEWER MANHOLE
  - E-ONE PUMP CHAMBER
  - OVERHEAD UTILITIES
  - UNDERGROUND UTILITY LINES
  - UTILITY POLE
  - TRANSFORMER PAD
  - SEWER SERVICE CLEAN OUT
  - DRAINAGE FLOW ARROW
  - STORM WATER DRAINAGE
  - SAWCUT LINE
  - STONE CHECK DAM
  - TEMPORARY SILT FENCE
  - GRAVEL CONSTRUCTION EXIT
  - CATCH BASIN
  - SILT SACK
  - PARKING COUNT

**MINIMUM ON-SITE PARKING REQUIREMENTS:**

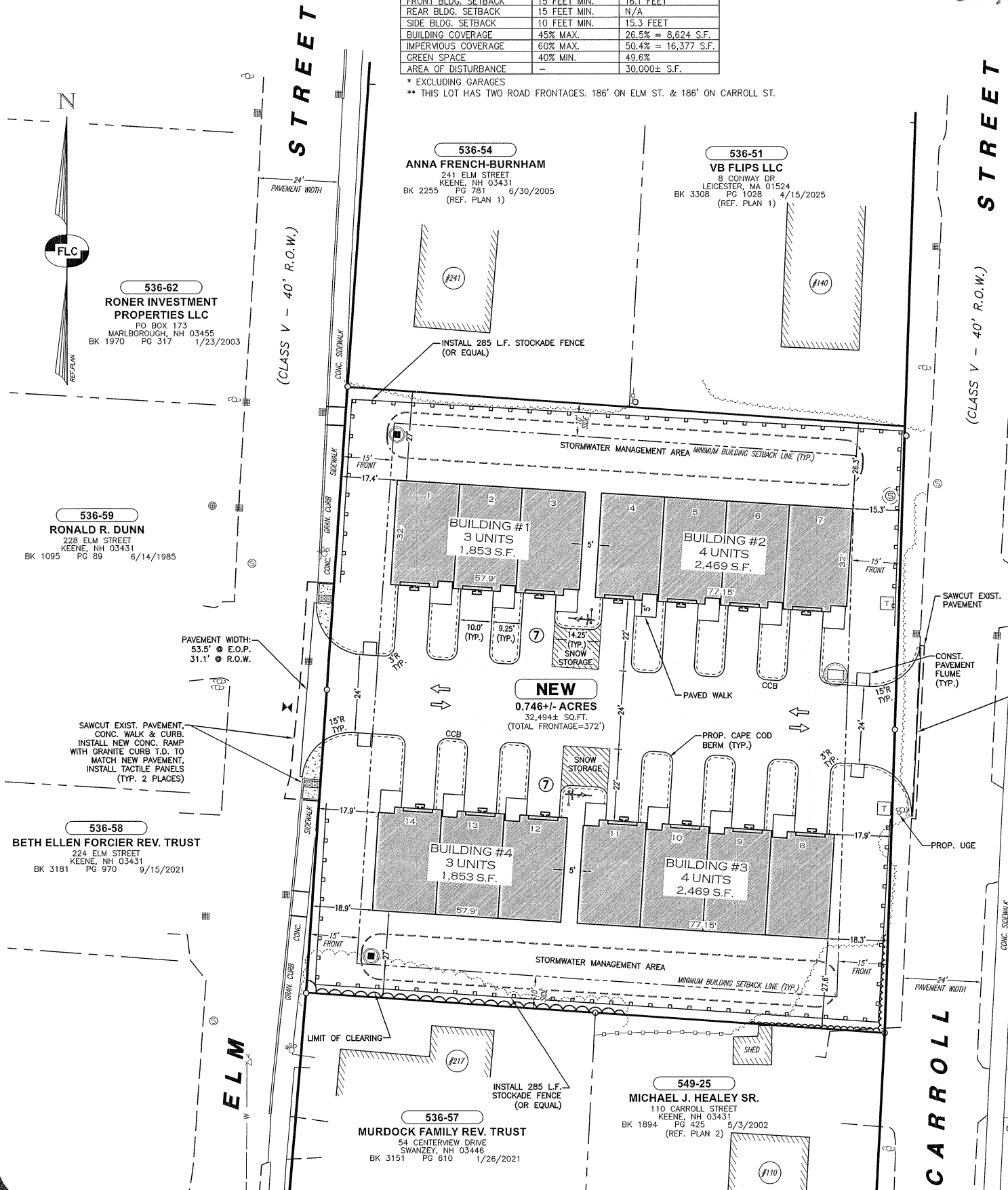
PRINCIPAL USE	TOWN REQUIREMENTS	TOTAL UNITS	SPACES REQUIRED	SPACES PROVIDED
MULTI-FAMILY	MIN. 1 SPACE/UNIT MAX. 1 SPACE/BED	14 2 BEDS/UNIT	MIN. 14 MAX. 24	14

**LAND-OWNER SIGNATURE**

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

**APPROVED BY THE KEENE PLANNING BOARD**

ON: \_\_\_\_\_ CERTIFIED BY \_\_\_\_\_  
 CHAIRMAN: \_\_\_\_\_ AND \_\_\_\_\_  
 SECRETARY: \_\_\_\_\_



REV.	DATE	DESCRIPTION	C/O	DR	CK
A	5/11/26	REVS PER CITY COMMENTS			

**SITE LAYOUT PLAN**  
**TAX MAP 536 LOTS 49, 50, 55, 56**  
**(0 ELM STREET, 0 CARROLL STREET**  
**& 225 ELM STREET)**  
**KEENE, NEW HAMPSHIRE**

PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
 118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885

LAND OF:  
**NUEVO TRANSFERS LLC**  
 69A ISLAND STREET, KEENE, NH 03431

SCALE: 1" = 20' APRIL 17, 2026

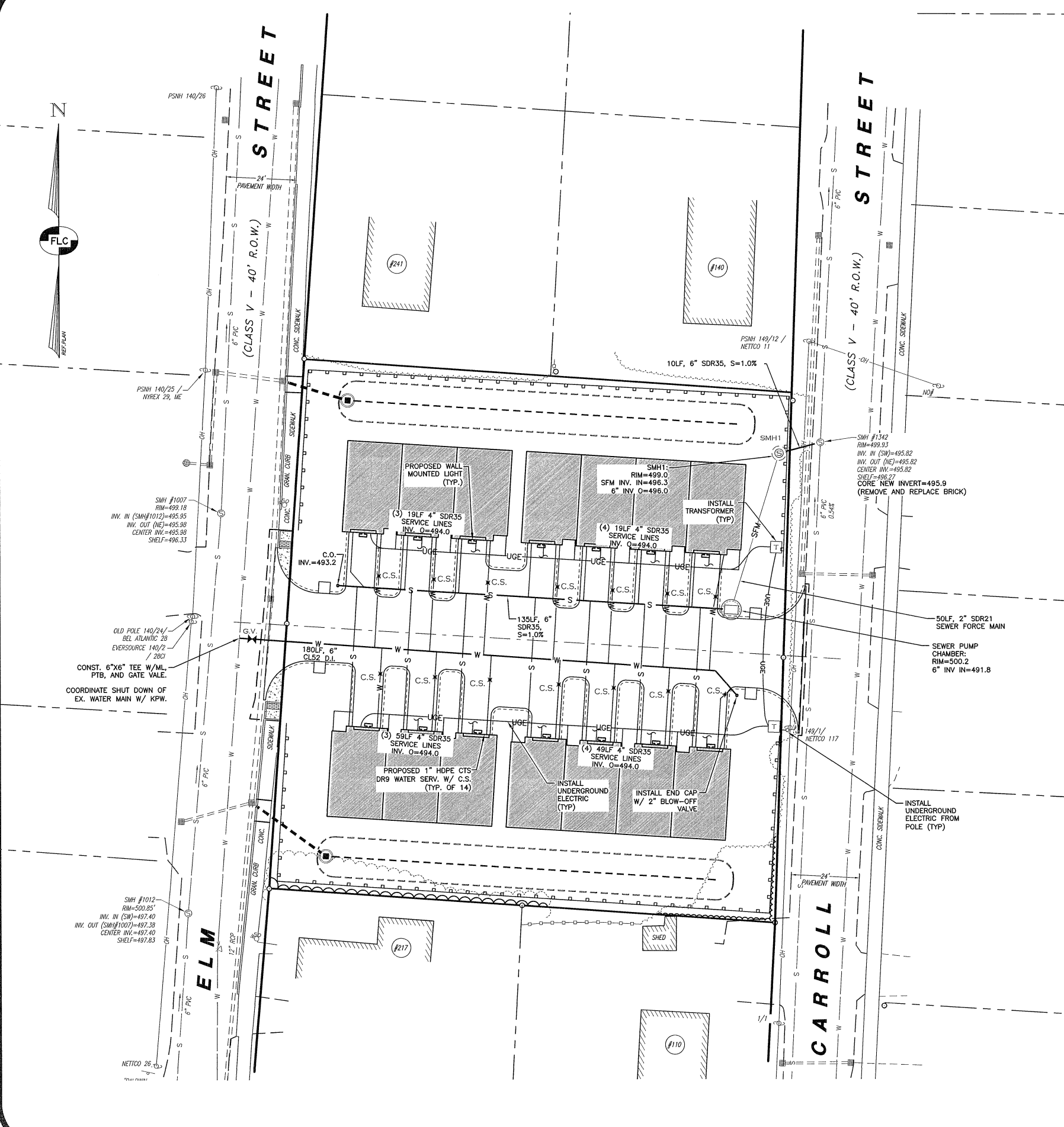
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**LEGEND:**

**EXISTING FEATURES**

- RIGHT-OF-WAY LINE
- BOUNDARY LINE
- ABUTTING LOT LINE
- BUILDING SETBACK LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CURB LINE
- EDGE OF TREE LINE
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- 10' CONTOUR INTERVAL
- 2' CONTOUR INTERVAL
- STOCKADE FENCE
- CULVERT
- OVERHEAD UTILITY LINE
- WATER LINE PER GIS
- SEWER LINE
- TAX MAP & LOT NUMBER

**PROPOSED FEATURES**

- EDGE OF PAVEMENT
- CAPE COD BERM (CCB)
- LIMITS OF CLEARING
- EROSION CONTROL STONE
- PAVEMENT AREA
- CONCRETE WALK
- MISCELLANEOUS SIGN
- TRAFFIC SIGN
- WALL MOUNTED LIGHT
- TRAFFIC FLOW (NOT PAINTED ARROW)
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- 10 FT. CONTOUR
- 2 FT. CONTOUR
- SPOT ELEVATION
- BOTTOM OF CURB TOP OF CURB
- SM/ALE/QUESS LINE
- T.B.R. TO BE REMOVED
- LIMITED COMMON AREA LINE
- LIMITED COMMON AREA NUMBER

**IRON PIN FOUND**

- IRON PIPE FOUND
- IRON PIPE PER REF PLAN
- UTILITY POLE & GUY
- CATCH BASIN (SQUARE)
- CATCH BASIN (ROUND)
- DRAIN MAN-HOLE
- SEWER MAN-HOLE
- WATER HYDRANT
- WATER VALVE
- WATER SHUT-OFF
- BUILDING & ADDRESS NO.

**WATER LINE**

- WATER LINE
- SEWER LINE
- SEWER FORCE MAIN
- SEWER MANHOLE
- E-ONE PUMP CHAMBER
- OVERHEAD UTILITIES
- UNDERGROUND UTILITY LINES
- UTILITY POLE
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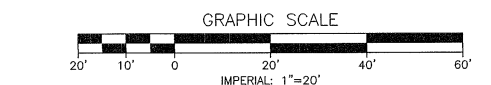
- UTILITY NOTES:**
- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE CITY OF KEENE AND SHALL BE BUILT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE CITY OF KEENE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR ROAD CONSTRUCTION AND SEWERS AND DRAINS AND THE NHDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION APPROVED AND ADOPTED 2010 ARE HEREBY INCORPORATED BY REFERENCE.
  - ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND THE SPECIFICATIONS NOTED ABOVE. ANY ALTERATION OF THIS DESIGN OR CHANGE DURING CONSTRUCTION MAY REQUIRE APPROVAL OF VARIOUS CITY BOARDS OR AGENCIES AND SHALL BE DISCUSSED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS AND SHALL VERIFY THAT ALL THE INFORMATION SHOWN HEREON IS CONSISTENT, COMPLETE, ACCURATE, AND CAN BE CONSTRUCTED PRIOR TO AND/OR DURING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES, ERRORS, OMISSIONS, OR EXISTING UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION SO THAT REMEDIAL ACTION MAY BE TAKEN BEFORE PROCEEDING WITH THE WORK.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACT "DIGSAFE" AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION (1-888-344-7233)
  - THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE TOWN DEPARTMENTS PRIOR TO CONSTRUCTION TO ARRANGE FOR NECESSARY INSPECTIONS. THE WATER AND SEWER CONNECTIONS IN CITY STREETS WILL REQUIRE AN EXCAVATION PERMIT AND COORDINATION WITH KEENE PUBLIC WORKS.
  - BLASTING, IF REQUIRED, SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF KEENE FIRE DEPARTMENT REGULATIONS. BASED ON TEST PITS, THIS IS UNLIKELY TO BE PRESENT.
  - ALL DISTURBED NON-PAVED AREAS SHALL BE LOAMED AND SEEDS IMMEDIATELY UPON BEING CONSTRUCTED. THE RETAINING WALLS SHOWN SHALL BE DESIGNED BY OTHERS UNLESS OTHERWISE NOTED.
  - ALL TRAFFIC SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
  - EXISTING PAVEMENT SHALL BE SAW-CUT AS NECESSARY. THE CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW PAVEMENT.
  - ALL POWER WORK SHALL CONFORM TO EVERSOURCE STANDARDS. THE POWER SERVICE SHALL BE VERIFIED BY AN ELECTRICAL ENGINEER AND EVERSOURCE.
  - ALL TELEPHONE WORK SHALL CONFORM TO CONSOLIDATED COMMUNICATIONS SPECIFICATIONS.
  - PRIOR TO CONSTRUCTION, THE DEVELOPER WILL BE REQUIRED TO OBTAIN AN EXCAVATION AND UTILITY CONNECTION PERMIT FOR THE PROPOSED IMPROVEMENTS.
  - ALL SEWER MAIN AND SERVICES ARE REQUIRED TO HAVE A MINIMUM 6 FEET OF COVER. WATER MAINS AND SERVICES ARE REQUIRED TO HAVE A MINIMUM 5 FEET OF COVER. AT ANY CROSSING, THE WATER MAIN AND SERVICES MUST HAVE 18" OF VERTICAL SEPARATION ABOVE SEWER.
  - A BLANKET EASEMENT WILL BE RECORDED THAT GRANTS THE CITY ACCESS TO THE WATER AND SEWER UTILITIES ON SITE. IN CASE OF EMERGENCIES, THE WATER AND SEWER INFRASTRUCTURE ON SITE WILL BE OWNED AND MAINTAINED BY THE CONDOMINIUM ASSOCIATION.
  - EACH UNIT SHALL HAVE A WATER METER, BACKFLOW DEVICE, AND CURB STOP VALVE INSTALLED. THE WATER SERVICE LINES SHALL BE HDPE, CTS, DR9 RATED FOR 250 PSL. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL WATER AND SEWER TIE INS WITH THE KEENE PUBLIC WORKS DEPARTMENT.
- SEE SITE LAYOUT PLAN SHEET SP-1 FOR LOCUS, PLAN REFERENCES & GENERAL NOTES.

**SANITARY SEWER CALCULATIONS:**

- THE SEWER DAILY FLOW RATE: 120 GPD/BEDROOM X 28 BEDROOMS = 3,360 GPD
- INFILTRATION: 135 LF 6" SDR 35 = 0.025 MI (6"x0.025 MI) x 300 GPD/INCH-MILE = 45 GPD
- AVERAGE DAILY FLOW: 3,360 + 45 = 3,405 GPD
- PEAK DESIGN FLOW: PEAKING FACTOR = 6 (< 100,000 GPD) 6 x 3,405 GPD = 20,430 GPD

**STRUCTURE INFORMATION:**

CB #1003 RIM=498.66 INV. IN (CB#1003)=494.26 INV. OUT (CB#1003)=494.24 CENTER INV.=492.09	CB #1010 RIM=500.42 INV. IN (SW)=494.36 INV. OUT (CB#1011)=498.82 INV. OUT (CB#1009)=493.79 CENTER INV.=491.36	SMH #1012 RIM=500.85 INV. IN (SW)=497.40 INV. OUT (SMH#1007)=497.38 CENTER INV.=497.40 SHELF=497.83
CB #1004 RIM=498.78 INV. IN (CB#1003)=494.31 INV. OUT (CB#1009)=493.72 INV. OUT (NE)=493.45 CENTER INV.=491.83	CB #1011 RIM=500.37 INV. IN (CB#1010)=498.06 CENTER INV.=495.68	SMH #1007 RIM=498.18 INV. IN (SMH#1012)=495.95 INV. OUT (NE)=495.98 CENTER INV.=495.98 SHELF=496.33
CB #1009 RIM=498.83 INV. IN (CB#1010)=493.73 INV. IN (NE)=495.25 INV. OUT (CB#1004)=493.53 CENTER INV.=491.46	CB #1005 RIM=498.78 INV. IN (CB#1106)=495.62 INV. OUT (CB#1103)=495.10 CENTER INV.=493.07	SMH #1342 RIM=499.93 INV. IN (SW)=495.82 INV. OUT (NE)=495.82 CENTER INV.=495.82 SHELF=496.27
CB #1344 RIM=500.45 INV. OUT (CB#1343)=497.69 CENTER INV.=496.75	CB #1006 RIM=498.16 INV. OUT (CB#1005)=496.13	CB #1343 RIM=500.17 INV. IN (CB#1344)=497.46 INV. OUT (CB#1341)=497.06 CENTER INV.=496.61
CB #1351 RIM=500.39 INV. IN (SE)=498.19 INV. OUT (CB#1352)=497.63 CENTER INV.=497.41	CB #1343 RIM=500.17 INV. IN (CB#1344)=497.46 INV. OUT (CB#1341)=497.06 CENTER INV.=496.61	CB #1352 OND - VEHICLE PARKED



A	5/11/26	REVS PER CITY COMMENTS	CJC	JEN	
REV.	DATE	DESCRIPTION	C/O	DR	CK

**UTILITY PLAN**  
**TAX MAP 536 LOTS 49, 50, 55, 56**  
**(O ELM STREET, O CARROLL STREET**  
**& 225 ELM STREET)**  
**KEENE, NEW HAMPSHIRE**

PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
 118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885

LAND OF:  
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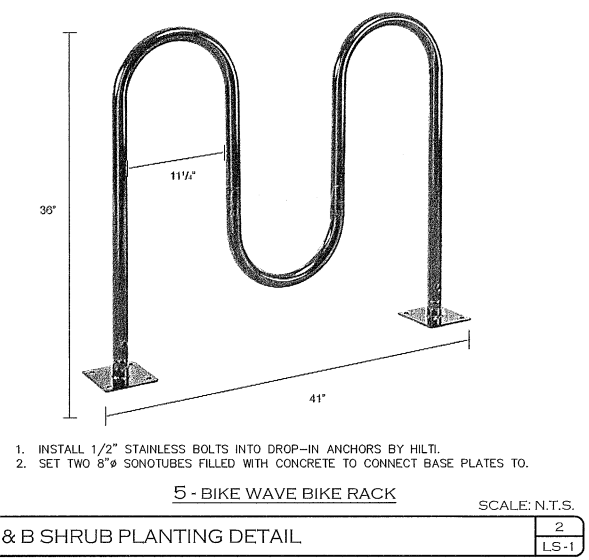
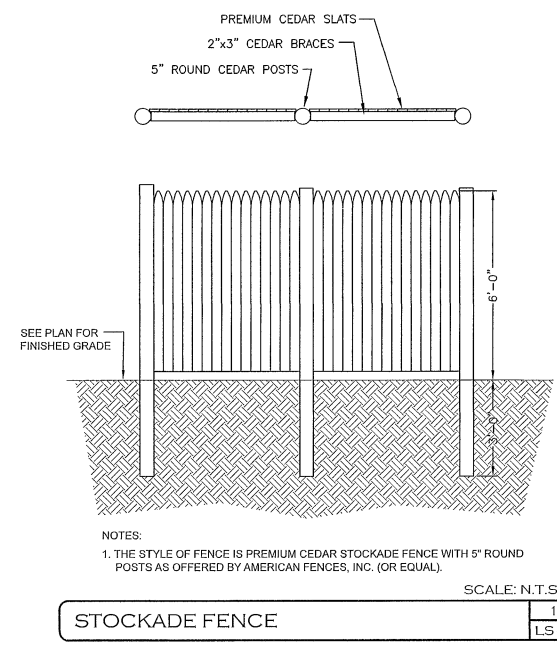
SCALE: 1" = 20' APRIL 17, 2026

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

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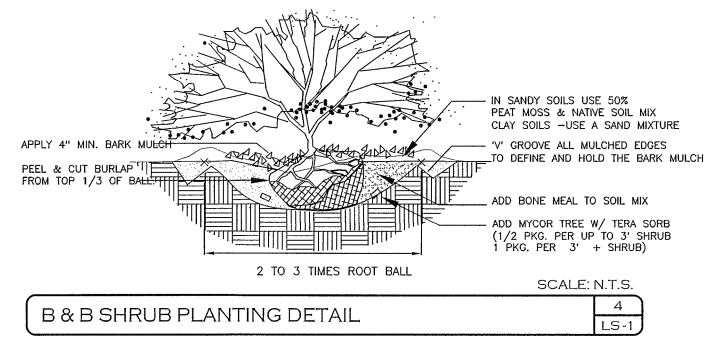
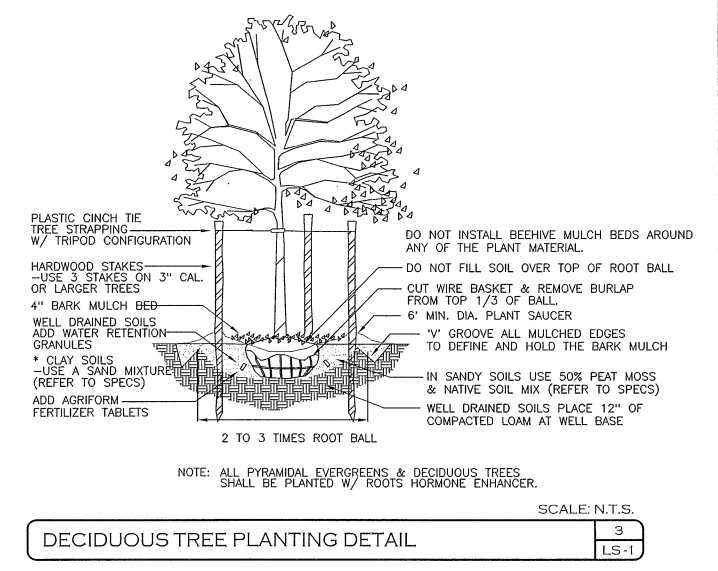
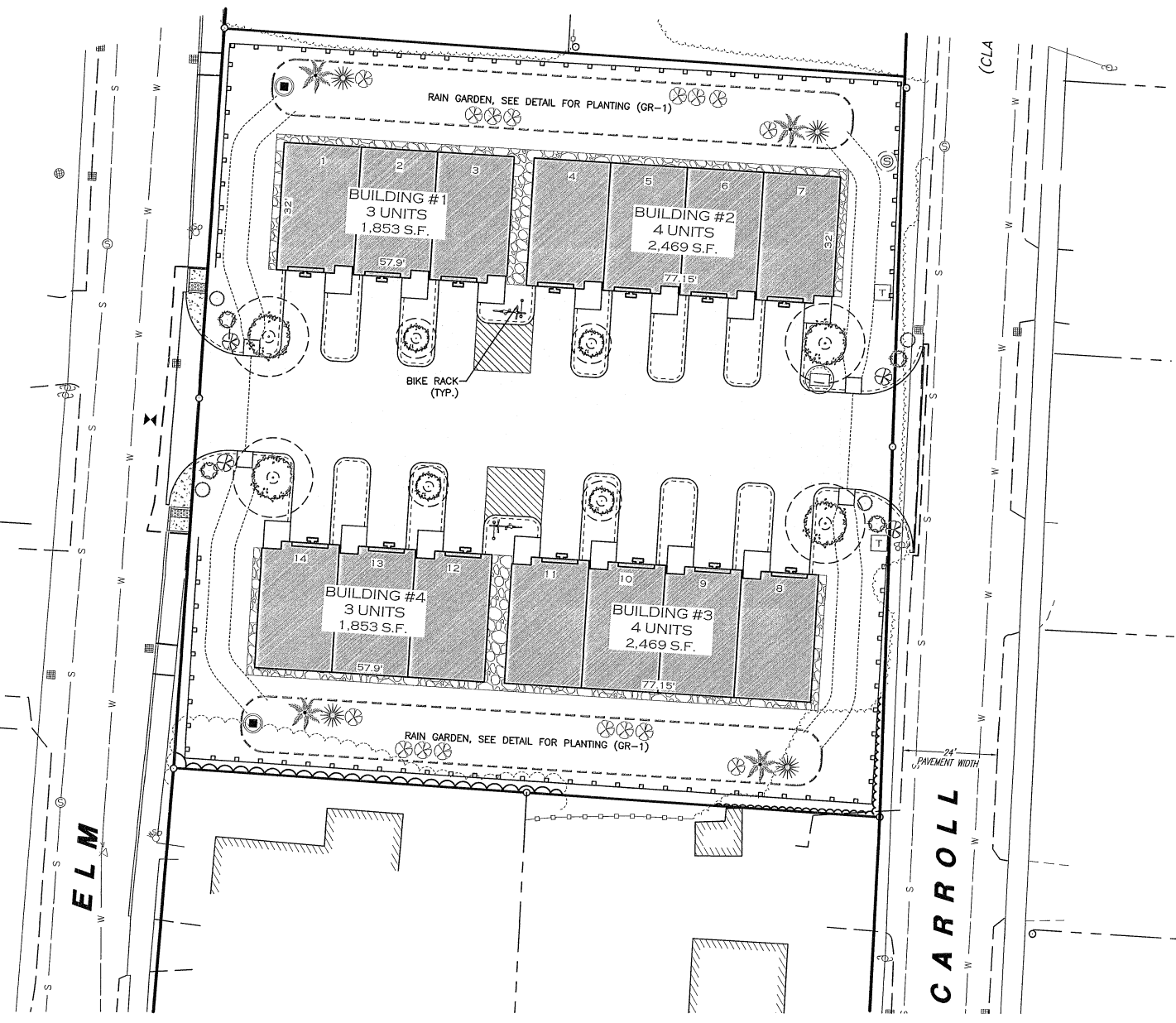
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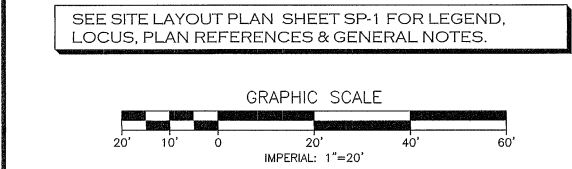
PLANT SYMBOLS

- ACE
- CRA
- PJM
- COR
- ILC
- ★
- ☼
- ☼
- ☼
- ☼
- ☼

PLANT LIST & NAME	QTY.
ACER RUBRUM (RED MAPLE TREE)	(4) 3" CAL., 12' TALL, 6" DRIP LINE 50"H, 40' DRIP LINE AT MATURITY
CRATAEGUS MACROSPERMA (HAWTHORN)	(4) 3" CAL., 10' TALL, 5' DRIP LINE 25"H, 20' DRIP LINE AT MATURITY
P.J.M. RHODODENDRON SHRUB	(4) 2 GALLON CONTAINER, 1.5' - 2'H (4'H MATURE)
CORNUS AMOMUM (SILKY DOGWOOD SHRUB)	(4) 3 GALLON CONTAINER, 2.5' - 3'H (8'H MATURE)
ILEX VERTICILLATA (WINTERBERRY SHRUB)	(4) 2 GALLON CONTAINER, 1.5' - 2'H (4'H MATURE)
<b>RAIN GARDEN PLANTINGS:</b>	
LOWBUSH BLUEBERRY	(2) 3 GALLON CONTAINER, 1.5' - 2'H
SHEEP LAUREL	(2) 2 GALLON CONTAINER, 0' - 4'H
BLUE FLAG IRIS	(2) 2 GALLON CONTAINER, 2' - 3'H
CARDINAL FLOWER	(2) 2 GALLON CONTAINER, 2' - 4'H
NEW ENGLAND ASTER	(2) 2 GALLON CONTAINER, 0' - 5'H
BLACK EYED SUSAN	(2) 2 GALLON CONTAINER, 1' - 3'H



- LANDSCAPING NOTES:
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG-SAFE AND FOR VERIFICATION OF ALL UTILITIES AND SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY CONFLICTS PRIOR TO COMMENCING.
  - EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. TEMPORARY FENCING SHALL BE INSTALLED PRIOR TO THE START OF SITE WORK TO PROTECT ROOT MASSES.
  - EXISTING TREES THAT ARE TO BE REMOVED, SHALL BE REMOVED ENTIRELY FROM THE SITE, INCLUDING STUMPS. NO STUMP-DUMPS ARE ALLOWED ON SITE.
  - UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED WITHIN THE IMMEDIATE AREA NO PLANT MATERIAL SHALL BE INSTALLED.
  - UNLESS OTHERWISE NOTED OR APPROVED, ALL TREES MUST BE BALLED AND BURLAPPED.
  - ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF "THE AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
  - ANY PROPOSED PLANT MATERIAL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
  - ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE INSTALLER FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE. ANY PLANT MATERIAL THAT IS SIGNIFICANTLY DAMAGED, MISSING, DISEASE RIDDEN, OR DEAD SHALL BE ABATED WITHIN 1-YEAR OR BEFORE THE END OF THE FOLLOWING PLANTING SEASON, WHICHEVER OCCURS FIRST.
  - IN AREAS OF STONE MULCH LAY 6 MIL SHEETS OF "VISQUEEN" TYPE POLYETHYLENE ON COMPACTED SUBGRADE BEFORE PLACING STONE, MINIMUM 6" OVERLAP. PERFORATE SHEETING IN PLANTING BEDS BEFORE PLACING STONE.
  - UNLESS OTHERWISE NOTED LOAM AND SEED ALL DISTURBED AREAS WITH A MINIMUM 4" OF SUITABLE LOAM. SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET. SEE SITE PLAN.
  - WHERE APPLICABLE, THE CONTRACTOR SHALL HAVE ALL FALL TRANSPLANTING HAZARD PLANTS DUG IN THE SPRING AND STORED FOR FALL PLANTING.
  - PLANTS SHALL BE INSTALLED WITHIN ONE YEAR OF COMMENCEMENT OF CONSTRUCTION
  - ALL LANDSCAPING SHALL BE LOCATED AND MAINTAINED SO AS NOT TO IMPACT THE LINES OF SIGHT AT THE ENTRANCE AND INTERNAL INTERSECTIONS TO PROVIDE SAFE PASSAGE OF PEDESTRIANS, BICYCLISTS, AND MOTORISTS.
  - ALL LANDSCAPED AREAS WILL BE MAINTAINED TO HAVE A SUFFICIENT AMOUNT OF WATER TO MAINTAIN VIABILITY EITHER BY IRRIGATION OR BY OTHER MEANS.
  - PROPOSED PLANTINGS SHALL NOT CONFLICT WITH SNOW STORAGE AREAS, LIGHT FIXTURES OR UNDERGROUND UTILITIES.
  - TREE CANOPY EXTENDING INTO THE ROADWAY MUST BE MAINTAINED AT 13'-6" FROM THE ROAD SURFACE.
  - ALL LANDSCAPING APPROVED AS PART OF THE SITE PLAN SHALL BE CONSIDERED AS ELEMENTS OF THE SITE, IN THE SAME MANNER AS PARKING, BUILDING MATERIALS, AND OTHER SITE DETAILS. ANY CHANGES WILL REQUIRE APPROVAL BY THE OWNER AND CITY COMMUNITY DEVELOPMENT DIRECTOR.



REV.	DATE	DESCRIPTION	C/O	DR	CK
A	5/11/26	REVS PER CITY COMMENTS		CJC	JEN

**LANDSCAPING PLAN**  
**TAX MAP 536 LOTS 49, 50, 55, 56**  
**(0 ELM STREET, 0 CARROLL STREET & 225 ELM STREET)**  
**KEENE, NEW HAMPSHIRE**

PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
 118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885

LAND OF:  
**NUEVO TRANSFERS LLC**  
 69A ISLAND STREET, KEENE, NH 03431

SCALE: 1" = 20' APRIL 17, 2026  
 Surveying + Engineering + Land Planning + Permitting + Septic Designs

**FIELDSTONE**  
**LAND CONSULTANTS, PLLC**

206 Elm Street, Milford, NH 03055  
 45 Roxbury Street, Keene, NH 03431  
 Phone: (603) 672-5456 Fax: (603) 413-5456  
 www.FieldstoneLandConsultants.com

FILE: 4200SP00.dwg	PROJ. NO. 4200.00	SHEET: LS-1
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Symbol	Qty	Label	Arrangement	Description	[MANUFAC]
⊕	14	W	Single	P5623-2030K9	PROGRESS

NORTHERN PARKING SPOTS

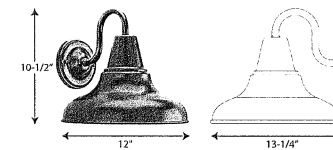
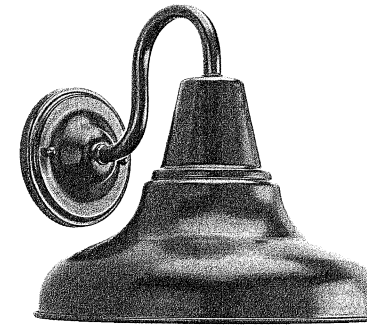
Illuminance (Fc)  
 Average = 0.73  
 Maximum = 1.4  
 Minimum = 0.2  
 Avg/Min Ratio = 3.65  
 Max/Min Ratio = 7.00

SOUTHERN PARKING SPOTS

Illuminance (Fc)  
 Average = 0.75  
 Maximum = 1.6  
 Minimum = 0.2  
 Avg/Min Ratio = 3.75  
 Max/Min Ratio = 8.00



P5623-2030K9



Photometrics:

ELECTRICAL DATA	P5623-2030K9
Input Voltage	120 V
Input Frequency	60 Hz
Input Current	0.075 A
Power Factor	Greater than 0.90
THD	<20%
EMI/RFI	Meets FCC Title 47, Part 15 Class B
Operating Temperature	-30 °C to 30 °C
Dimming	Yes*
Over-voltage, over-current, short-circuit protected	
*See Dimming Notes for more information	

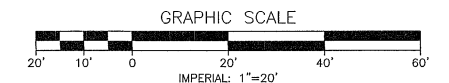
Performance:

Number of Modules	1
Input Power	9 W
Input Voltage	120 V
Input Frequency	60 Hz
Lumens/LPW (Source)	623/69.2 (LM-82)
Lumens/LPW (Delivered)	479/61.1 (LM-79)
CCT	3000 K
CRI	90 CRI
Life (hours)	60000 (L70/TM-21)
EMI/RFI	Meets FCC Title 47, Part 15 Class B
Max. Operating Temp	30 °C
Warranty	5-year Limited Warranty
Labels	cCSAus Wet Location Listed

LIGHTING NOTES:

- LIGHTING FIXTURES SHALL BE POSITIONED TO PREVENT UNDESIRABLE INCIDENTAL ILLUMINATION OF ABUTTING PROPERTIES, THE STREET, AND THE NIGHTTIME SKY. GLARE, DIRECTIONS, AND LIGHT LEVEL SHOULD BE CONSIDERED IN DESIGN OF ILLUMINATION PLANS.
- SECURITY, PARKING LOT, AND SIGN LIGHTING SHALL BE SHIELDED OR OTHERWISE DESIGNED TO ENSURE THE LIGHT IS DIRECTED DOWNWARD.
- TO PREVENT LIGHT POLLUTION AND IMPACTS ON ABUTTING PROPERTIES, THE TOTAL CUTOFF OF LIGHT SHOULD OCCUR WITHIN THE PROPERTY LINES OF THE PARCEL TO BE DEVELOPED.
- SITE LIGHTING TRESPASS ONTO ADJACENT RESIDENTIAL USES OR ZONING DISTRICTS SHALL BE MINIMIZED.
- SITE LIGHTING SHALL MINIMIZE LIGHT SPILL INTO THE DARK NIGHT SKY.
- FIXTURES AND LIGHTING SYSTEMS USED FOR SAFETY AND SECURITY SHALL BE IN GOOD WORKING ORDER AND SHALL BE MAINTAINED IN A MANNER THAT SERVES THE ORIGINAL DESIGN INTENT OF THE SYSTEM.
- VEGETATION AND LANDSCAPING SHALL BE MAINTAINED IN A MANNER THAT DOES NOT OBSTRUCT SECURITY LIGHTING AND MINIMIZES POSSIBLE ENTRAPMENT SPACES.
- ALL LIGHT FIXTURES WILL HAVE A TIMER AND MOTION SENSOR TO ELIMINATE UNNECESSARY LIGHTING.
- LIGHT FIXTURES ARE AVAILABLE THROUGH EXPOSURE 2 LIGHTING. ANY CHANGE IN FIXTURE MUST BE APPROVED BY THE OWNER, DESIGN ENGINEER, AND TOWN.

SEE SITE LAYOUT PLAN SHEET SP-1 FOR LEGEND, LOCUS, PLAN REFERENCES & GENERAL NOTES.



REV.	DATE	DESCRIPTION	C/O	JEN
A	5/11/26	REVS PER CITY COMMENTS		CJC
				JEN

**LIGHTING PLAN**  
**TAX MAP 536 LOTS 49, 50, 55, 56**  
**(0 ELM STREET, 0 CARROLL STREET**  
**& 225 ELM STREET)**  
**KEENE, NEW HAMPSHIRE**  
 PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
 118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885  
 LAND OF:  
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SCALE: 1" = 20' APRIL 17, 2026

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

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FILE: 4200SP00.dwg	PROJ. NO. 4200.00	SHEET: LT-1
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- PRIOR TO STARTING ANY WORK ON THE SITE THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS THEREOF IN NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICE STORM WATER MANUALS, VOLUME 1-3, LATEST EDITION.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PER PLANS AND DETAILS. PERMETER CONTROLS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES.
- INSTALL INLET PROTECTION AROUND ALL STORM DRAIN STRUCTURES. INLET PROTECTION BMP'S SHALL REMAIN UNTIL THE SITE IS STABILIZED. CONSTRUCTION OF STORMWATER BASINS AND TREATMENT SWALES SHALL OCCUR PRIOR TO ANY EARTH MOVING OPERATION THAT WILL INFLUENCE STORM WATER RUNOFF.
- THE WORK AREA SHALL BE GRADED, SHAPED AND OTHERWISE DRAINED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE THE LIMITS OF THE WORK AREA.
- EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEN POSSIBLE.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EVERY 0.25-INCH OR GREATER RAINFALL. SEDIMENTS SHALL BE DISPOSED OF IN AN UPLAND AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND BE PERMANENTLY STABILIZED.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP'S ARE STABILIZED. THE SITE WILL BE SUBJECT TO ENVIRONMENTAL MONITORING.
- THE LAND AREA EXPOSED SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. ALL NON-ACTIVE DISTURBED AREAS SHALL BE STABILIZED WITHIN 30 DAYS OF THE DISTURBANCE. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF FINAL GRADING.
- DITCHES, SWALES AND DRAINAGE BASINS SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- AN AREA SHALL BE CONSIDERED STABILIZED IF ONE OF THE FOLLOWING HAS OCCURRED:
  - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
  - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
  - A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, HAS BEEN INSTALLED; OR
  - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES THAT ARE STEEPER THAN 3:1 (HORIZONTAL / VERTICAL). UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL USE NORTH AMERICAN GREEN BIOMET SC150BN SHORT TERM BIODEGRADABLE DOUBLE-NET STRAW BLANKET, OR APPROVED EQUAL.
- ALL AREAS RECEIVING EROSION CONTROL STONE OR RIPRAP SHALL HAVE A GEOTEXTILE MATERIAL INSTALLED BELOW THE STONE (SEE APPROPRIATE DETAILS).
- ALL DISTURBED AREAS TO TURF FINISHED SHALL BE COVERED WITH A MINIMUM THICKNESS OF 6 INCHES OF COMPACTED LOAM. LOAM SHALL BE COVERED WITH THE APPROPRIATE SEED MIXTURE AS INDICATED BELOW:

PERMANENT SEED (LAWN AREAS)	LBS. / 1,000 SQ. FT.	PERMANENT SLOPE SEED MIX	LBS. / 1,000 SQ. FT.
CREEPING RED FESCUE	0.92 LBS	CREEPING RED FESCUE	0.80 LBS
PERENNIAL RYEGRASS	1.15 LBS	PERENNIAL RYEGRASS	0.69 LBS
KENTUCKY BLUEGRASS	0.58 LBS	REDTOP	0.12 LBS
REDTOP	0.12 LBS	ALSKIE CLOVER	0.12 LBS
		BIRDFOOT TREFLOIL	
**APPLICATION RATE TOTALS 2.8 LBS PER 1,000 SF**		**APPLICATION RATE TOTALS *1.85 LBS PER 1,000 SF**	

- TEMPORARY STABILIZATION OF DISTURBED AREAS: STRIPPED SOIL SHALL BE STOCKPILED UNCOVERED, AND STABILIZED AGAINST EROSION AS OUTLINED BELOW: SEED BED PREPARATION: 10-10-10 FERTILIZATION TO BE SPREAD AT THE RATE OF 7 LBS. PER 100 SF AND AGRICULTURAL LIMESTONE AT A RATE OF 90 LBS PER 1000 SF AND INCORPORATED INTO THE SOIL. THE SOIL, FERTILIZER AND LIMESTONE SHALL BE TILLED TO PREPARE FOR SEEDING.

A. SEED MIXTURE: USE ANY OF THE FOLLOWING:

SPECIES	RATE PER 1,000 SF	DEPTH	SEEDING DATES
WINTER RYE	2.5 LBS	1 INCH	8/15 TO 9/15
ORTS	2.5 LBS	1 INCH	4/15 TO 10/15
ANNUAL RYEGRASS	1.0 LBS	0.25 INCH	8/15 TO 9/15

B. MULCHING: MULCH SHOULD BE USED ON HIGHLY ERODIBLE AREAS, AND WHERE CONSERVATION OF MOISTURE WILL FACILITATE PLANT ESTABLISHMENT AS FOLLOWS:

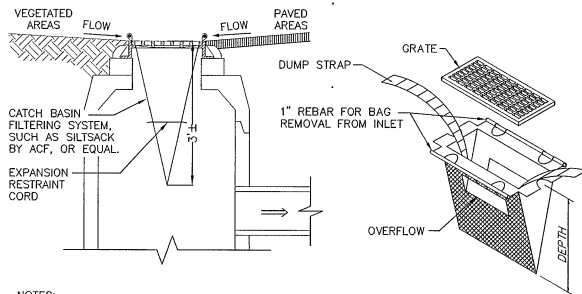
TYPE	RATE PER 1,000 SF	USE AND COMMENTS
STRAW	70 TO 90 LBS	MAY BE USED WITH PLANTINGS. MUST BE ANCHORED TO BE USED ALONE
WOOD CHIPS OR BARK MULCH	460 TO 920 LBS	USED WITH TREE AND SHRUB PLANTINGS
FIBROUS MATTING	AS RECOMMENDED BY MANUFACTURER	MUST BE BIODEGRADABLE. USE IN SLOPE AREAS AND AREAS DIFFICULT TO VEGETATE
CRUSHED STONE	SPREAD TO GREATER THAN 1/2" THICKNESS	USE IN SPECIFIC AREAS AS SHOWN ON PLAN OR AS NEEDED

- APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE (CRITICAL TIME FRAMES OR VARIABLE SITES) THEN APPLY FERTILIZER AT A RATE OF 11 POUNDS PER 1,000 SF AND LIMESTONE AT A RATE OF 90 POUNDS PER 1,000 SF. FERTILIZER SHALL BE LOW PHOSPHATE (LESS THAN 2% PHOSPHORUS).
- CAUTION SHOULD BE TAKEN WHEN THE PROPERTY IS LOCATED WITHIN 250 FEET OF A WATER BODY. IN THIS CASE ALL FERTILIZERS SHALL BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER. SLOW RELEASE FERTILIZERS MUST BE AT LEAST 50% SLOW RELEASE NITROGEN COMPONENT. NO FERTILIZER EXCEPT LIMESTONE SHALL BE APPLIED WITHIN 25 FEET OF THE SURFACE WATER. THESE ARE REGULATED LIMITATIONS.
- PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS (SEE WINTER CONSTRUCTION NOTES). NO DISTURBED AREAS SHALL BE LEFT EXPOSED DURING THE WINTER MONTHS.
- A VIGOROUS DUST CONTROL PROGRAM SHALL BE APPLIED BY THE SITE CONTRACTOR. DUST SHALL BE MANAGED THROUGH THE USE OF WATER AND/OR CALCIUM CHLORIDE.
- IN NO WAY ARE THE MEASURES INDICATED ON THE PLANS OR IN THESE NOTES TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGMENT TO INSTALL ADDITIONAL EROSION CONTROL MEASURES AS SITE CONDITIONS, WEATHER OR CONSTRUCTION METHODS WARRANT.
- FOLLOWING PERMANENT STABILIZATION, TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND ACCUMULATED SEDIMENTATION IS TO BE DISPOSED OF IN AN APPROVED LOCATION, OUTSIDE OF JURISDICTIONAL WETLANDS.
- LOT DISTURBANCE OTHER THAN SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.
- THE CONTRACTOR AND OWNER ARE RESPONSIBLE FOR OBSERVING AND MANAGING THE PROJECT PER RSA 430:53 AND ACR 8800 REGARDING INVASIVE SPECIES (PLANTS AND INSECTS). NO INVASIVE SPECIES PLANT OR INSECT SHALL BE INTRODUCED ONTO THE SITE.

**EROSION CONTROL NOTES** 1  
DT-1

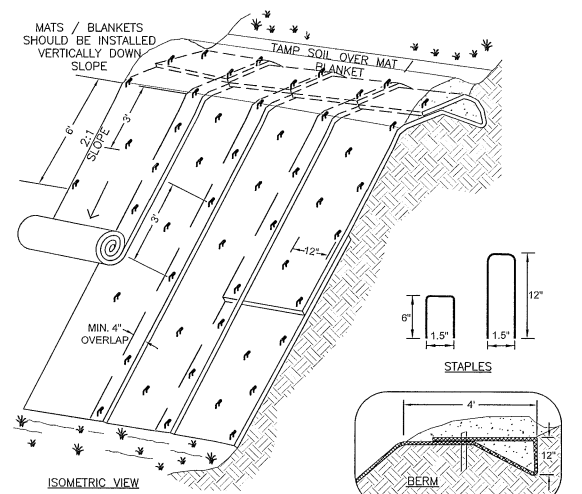
- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED. STABILIZATION METHODS SHALL INCLUDE SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL OR PROPERLY INSTALLED EROSION CONTROL BLANKETS COVERED WITH HAY. OTHER STABILIZATION OPTIONS ARE TO BE APPROVED BY THE APPROPRIATE AGENCIES AND THE DESIGN ENGINEER. IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER MONTHS THEN THE ROAD SHOULD BE CLEARED OF ACCUMULATED SNOW AFTER EACH STORM EVENT.

**WINTER CONSTRUCTION NOTES** 2  
DT-1



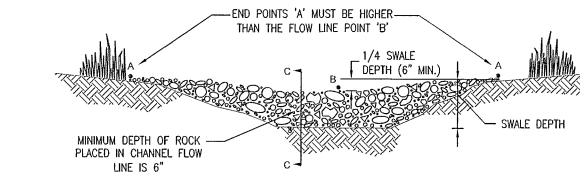
- NOTES:
- INSTALL AND MAINTAIN SACKS IN ALL CATCH BASINS.
  - TO INSTALL SACK, REMOVE CATCH BASIN GRATE AND PLACE SACK IN OPENING. HOLD OUT APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME FOR THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
  - THE SACK SHOULD BE INSPECTED AFTER EVERY STORM, OR ONCE EVERY TWO WEEKS, WHICH EVER OCCURS FIRST.
  - THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SACK SHOULD BE EMPTIED. EMPTY THE SACK AWAY FROM THE CATCH BASIN TO PREVENT SEDIMENT FROM RE-ENTERING THE CATCH BASIN. EMPTY THE SACK PER THE MANUFACTURER'S RECOMMENDATIONS.
  - REPLACE THE SACK IN THE CATCH BASIN AFTER THE SACK HAS BEEN EMPTIED. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED BY PAVING OR A HEALTHY VEGETATIVE COVER, REMOVE THE SACK FROM THE CATCH BASIN.

**SILT SACK SEDIMENT FILTER** 3  
DT-1

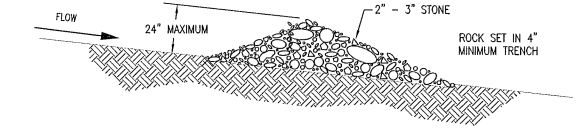


- NOTES:
- DIMENSIONS GIVEN IN THIS DETAIL ARE EXAMPLES. DEVICE SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
  - INSTALL STRAW/COCONUT FIBER EROSION CONTROL MAT SUCH AS NORTH AMERICAN GREEN BIOMET SC150BN SHORT TERM BIODEGRADABLE DOUBLE-NET STRAW BLANKET OR EQUAL ON ALL SLOPES EXCEEDING 3' HORIZ : 1' VERT.
  - THE EROSION CONTROL MATERIAL(S) SHALL BE ANCHORED WITH "U" SHAPED 11 GAUGE WIRE STAPLES OR WOODEN STAKES WITH A MINIMUM TOP WIDTH OF 1 INCH AND LENGTH OF 6 INCH.
  - SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS / BLANKETS SHALL HAVE GOOD SOIL CONTACT.
  - APPLY LIME, FERTILIZER AND PERMANENT SEEDING BEFORE PLACING BLANKETS.
  - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET AS SHOWN. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES OR STAKES IN APPROPRIATE LOCATIONS. REFER TO MANUFACTURER'S STAPLE GUIDE FOR CORRECT STAPLE PATTERN.
  - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
  - IN LOOSE SOIL CONDITIONS THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6 INCHES MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
  - THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEEDED AND REMULCHED AS DIRECTED.
  - THERE SHALL BE NO PLASTIC FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 3/8 INCHES MATERIAL UTILIZED. THIS DOES NOT APPLY TO TURF REINFORCEMENT MATS.
  - TURF REINFORCEMENT MATS SHALL BE COVERED WITH SOIL TO PREVENT EXPOSURE OF THE MATS TO THE SURFACE.

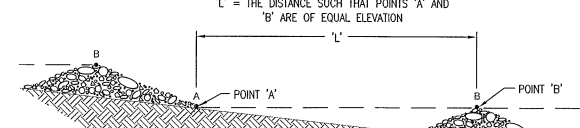
**EROSION BLANKETS - SLOPE INSTALLATION** 4  
DT-1



**VIEW LOOKING UPSTREAM**



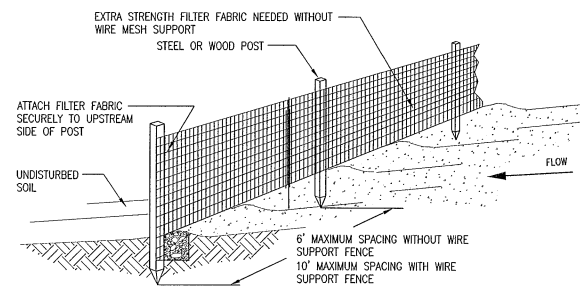
**SECTION C - C**



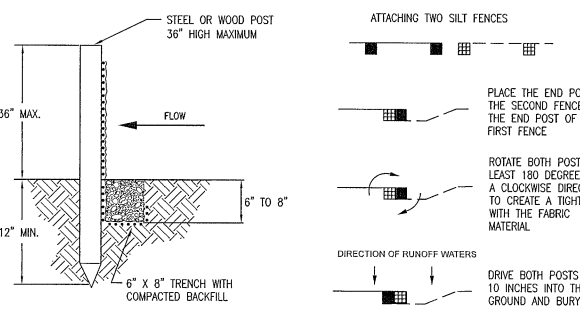
**PROFILE - CHECK DAM SPACING**

- NOTES:
- STONE CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
  - THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE CHECK DAM SHOULD BE LESS THAN ONE ACRE.
  - STONE CHECK DAMS SHOULD NOT BE USED IN A FLOWING STREAM.
  - STONE CHECK DAMS SHOULD BE CONSTRUCTED OF WELL-GRADED ANGULAR 2 TO 3 INCH STONE. THE INSTALLATION OF 3/4-INCH STONE ON THE UPGRADIENT FACE IS RECOMMENDED FOR BETTER FILTERING.
  - WHEN INSTALLING STONE CHECK DAMS THE CONTRACTOR SHALL KEY THE STONE INTO THE CHANNEL BANKS AND EXTEND THE STONE BEYOND THE ABUTMENTS A MINIMUM OF 18-INCHES TO PREVENT FLOW AROUND THE DAM.
  - STONE CHECK DAMS SHOULD BE REMOVED ONCE THE SWALE OR DITCH HAS BEEN STABILIZED UNLESS OTHERWISE SPECIFIED.

**STONE CHECK DAM** 5  
DT-1



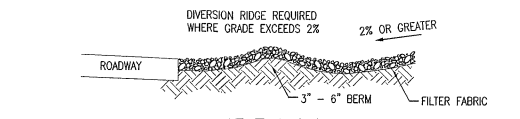
**PERSPECTIVE VIEW**



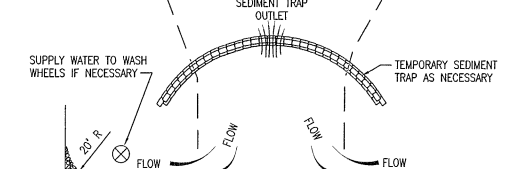
**SECTION VIEW**

- NOTES:
- SILT FENCES SHOULD NOT BE USED ACROSS STREAMS, CHANNELS, SWALES, DITCHES OR OTHER DRAINAGE WAYS.
  - SILT FENCE SHOULD BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE AND THE ENDS OF THE SILT FENCE SHOULD BE FLARED UPSLOPE.
  - IF THE SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE OR THE PRESENCE OF HEAVY ROOTS THE BASE OF THE FABRIC SHOULD BE EMBEDDED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH STONE.
  - SILT FENCES PLACED AT THE TOE OF SLOPES SHOULD BE INSTALLED AT LEAST 6 FEET FROM THE TOE TO ALLOW SPACE FOR SHALLOW PONDING AND ACCESS FOR MAINTENANCE.
  - THE MAXIMUM SLOPE ABOVE THE FENCE SHOULD BE 2:1 AND THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHOULD BE 100 FEET.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  - SILT FENCES SHOULD BE REMOVED WHEN THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

**SILT FENCE** 6  
DT-1



**SECTION A-A**



**PLAN VIEW**

- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - THE MINIMUM STONE USED SHOULD BE 3-INCH CRUSHED STONE.
  - THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
  - THE PAD SHOULD EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
  - THE PAD SHOULD SLOPE AWAY FROM THE EXISTING ROADWAY.
  - THE PAD SHOULD BE AT LEAST 6-INCHES THICK.
  - THE GEOTEXTILE FILTER FABRIC SHOULD BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
  - THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
  - NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. SCALE: N.T.S.

**GRAVEL CONSTRUCTION EXIT** 7  
DT-1

CONTACT DIG SAFE  
72 HOURS PRIOR  
TO CONSTRUCTION  
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REV.	DATE	DESCRIPTION	C/O	DR	CK

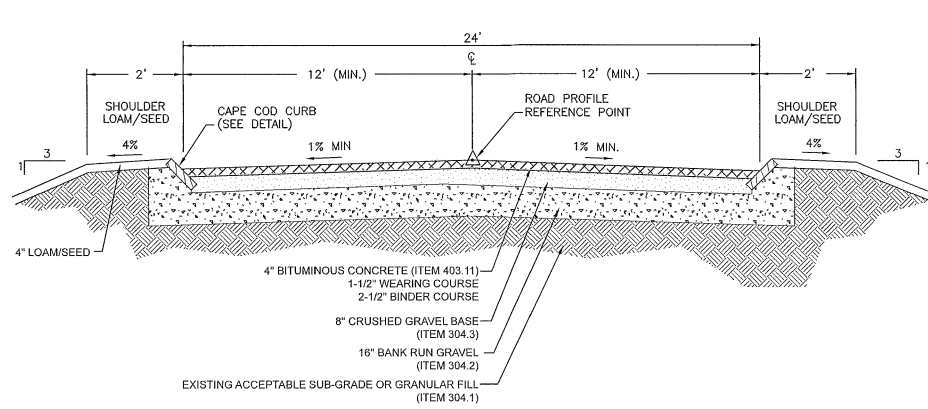
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**TAX MAP 536 LOTS 49, 50, 55, 56**  
**0 ELM STREET, 0 CARROLL STREET**  
**& 225 ELM STREET**  
**KEENE, NEW HAMPSHIRE**  
 PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
**118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885**

SCALE: NONE APRIL 17, 2026

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

**FIELDSTONE**  
**LAND CONSULTANTS, PLLC**  
 206 Elm Street, Milford, NH 03055  
 45 Roxbury Street, Keene, NH 03431  
 Phone: (603) 672-5456 Fax: (603) 413-5456  
 www.FieldstoneLandConsultants.com

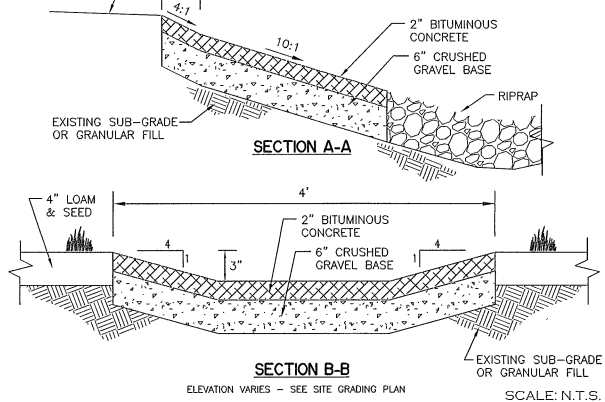
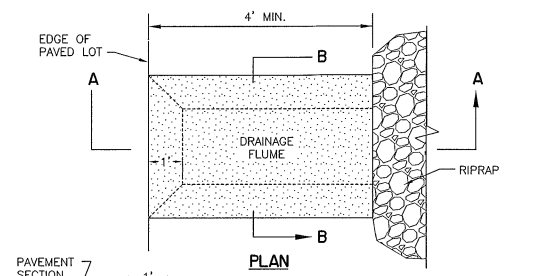
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TYPICAL CROSS SECTION

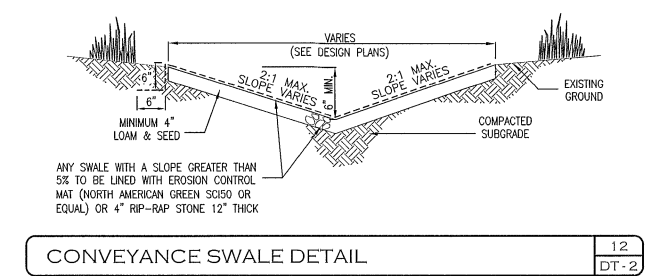
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DT-2

- GENERAL ROAD CONSTRUCTION NOTES:**
1. REMOVE ALL LOAM, CLAY, MUCK, STUMPS, AND OTHER IMPROPER ROAD FOUNDATION MATERIAL WITHIN 3' OF SUBGRADE. REPLACE WITH COMPACTED GRANULAR FILL MATERIAL ACCEPTABLE TO THE DIRECTOR OF PUBLIC WORKS. COMPACTION TO BE AT LEAST 95% OF THE DRY WEIGHT AS DETERMINED BY MODIFIED PROCTOR TESTING (ASTM 1557).
  2. ALL MATERIALS AND CONSTRUCTION SHALL MEET AND BE COMPLETED IN STRICT ACCORDANCE WITH THE CITY OF KEENE'S CURRENT ROAD AND DRAINAGE SPECIFICATIONS.
  3. WHERE ROAD GRADE IS 5% OR GREATER, ROAD SWALE SHALL BE LINED WITH RIPRAP (2 LAYERS, 6" TO 8" STONE, 6' WIDE WITH 6" GRAVEL BASE OR EROSION CONTROL FABRIC).
  4. ALL UTILITY POLES AND TRANSFORMER SLABS SHALL BE LOCATED AT THE RIGHT OF WAY LINE.



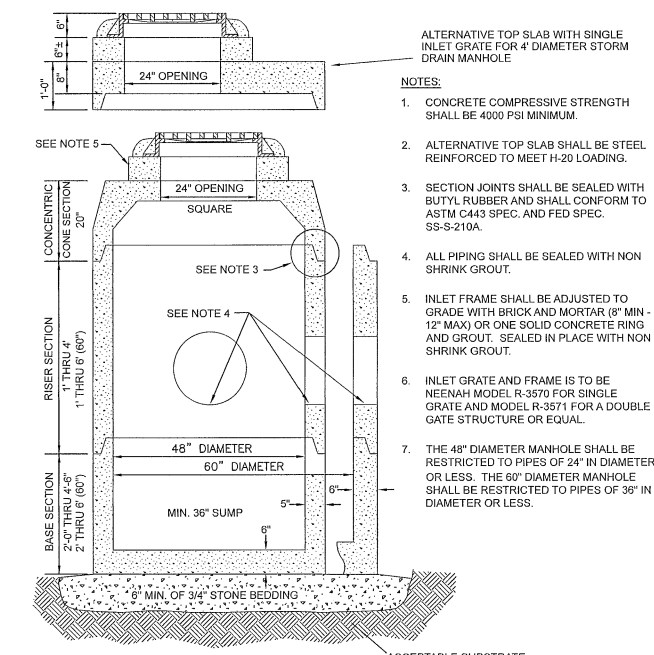
PAVED DRAINAGE FLUME

9  
DT-2



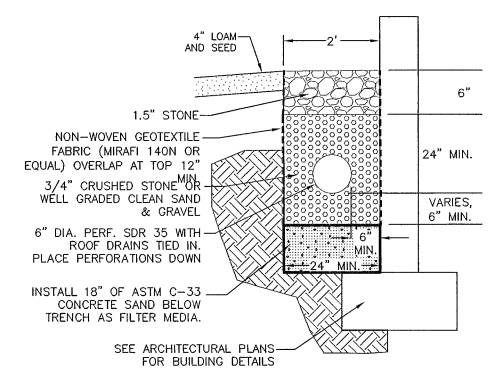
CONVEYANCE SWALE DETAIL

12  
DT-2



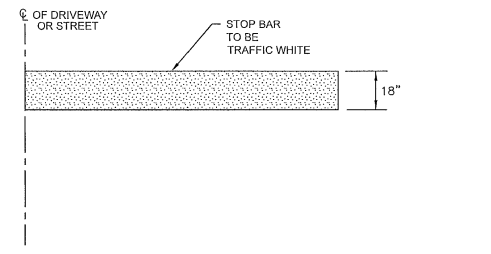
CATCH BASIN

13  
DT-2



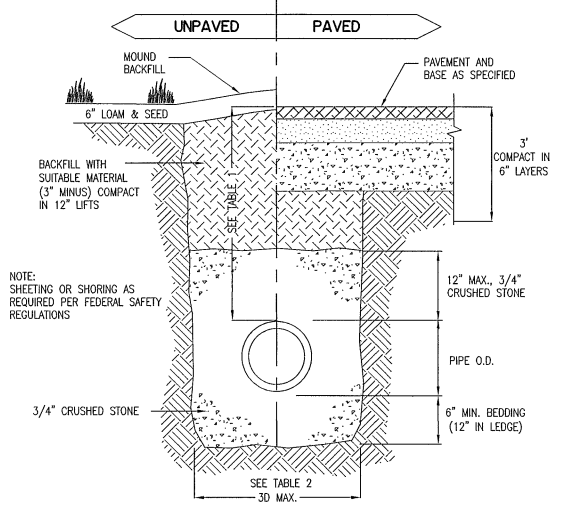
STONE DRIP EDGE TRENCH

2  
DT-2



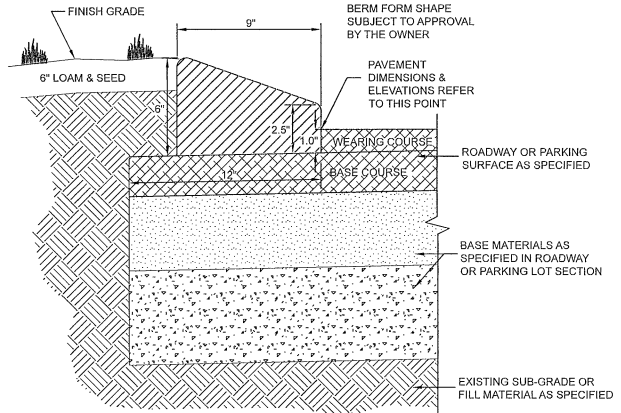
STOP BAR DETAIL

5  
DT-2



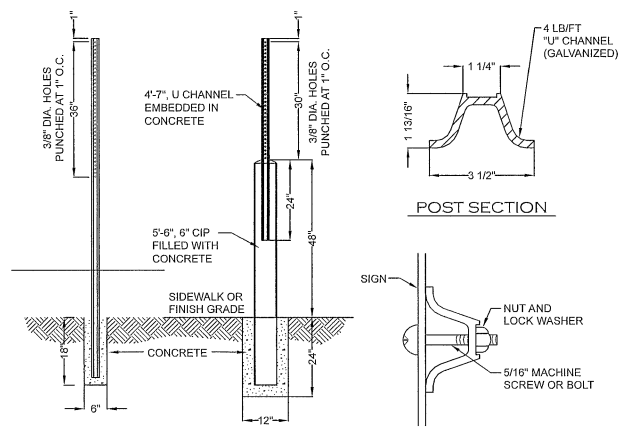
DRAINAGE TRENCH (TYPICAL)

10  
DT-2



CURB - ASPHALT (CAPE COD BERM)

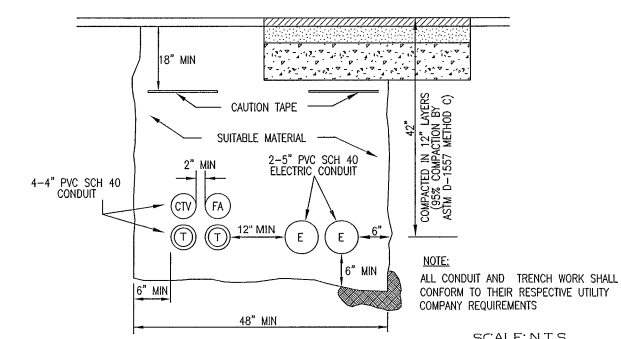
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SIGN POST - STANDARD & W/BOLLARD

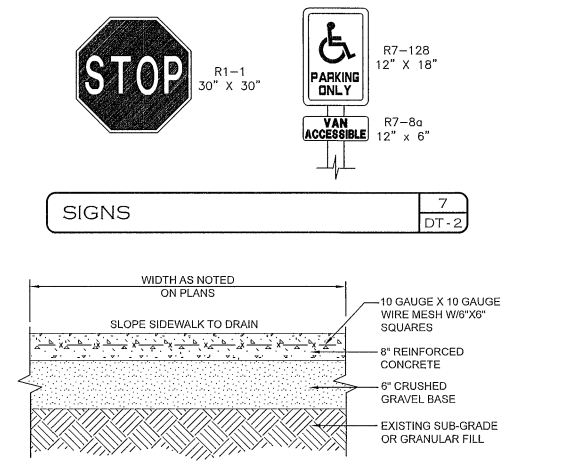
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DT-2

LOCATION	TABLE 1 (RECOMMENDED COVER)		TABLE 2 (RECOMMENDED TRENCH WIDTH)	
	PIPE MATERIAL	MINIMUM COVER	INSIDE DIAMETER	TOTAL WIDTH
PAVED ROADS	ALL	3 FT.	12" TO 24"	I.D. + 24"
GRAVEL ROADS	ALL	2 FT.	OVER 24"	2 x I.D.
DRIVEWAYS	ALL	1 FT.		
UNPAVED AREAS	ALL	2 FT.		



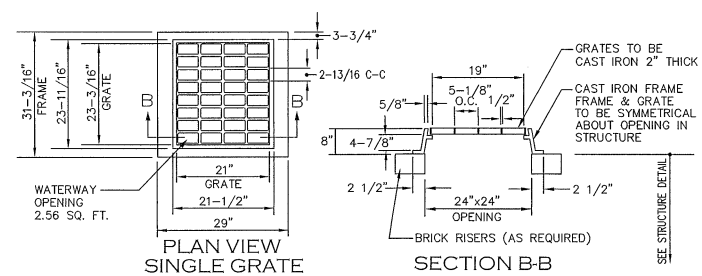
TYPICAL UTILITY TRENCH

4  
DT-2



CONCRETE SIDEWALK

8  
DT-2

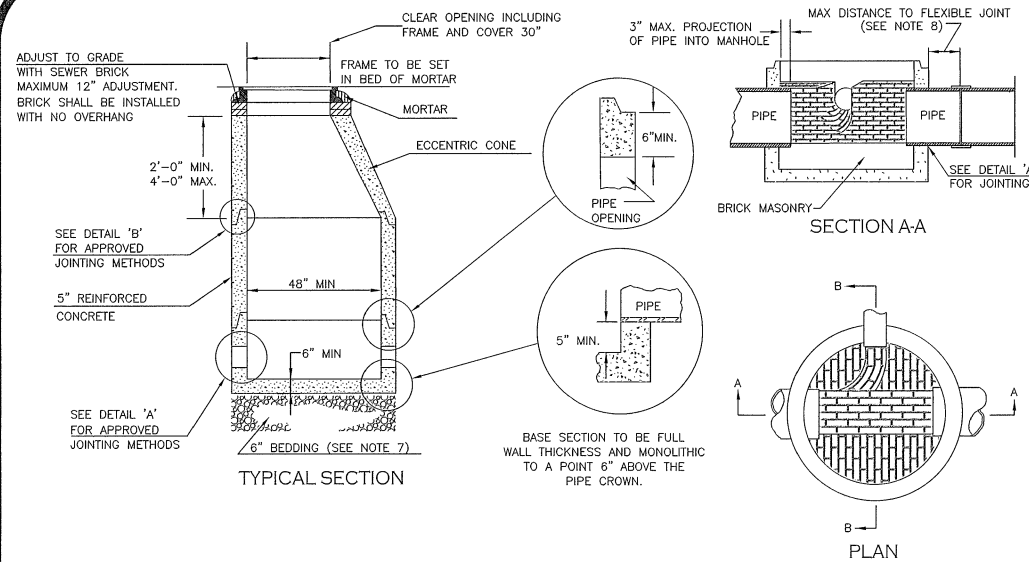


FRAME AND GRATE - NHDOT TYPE B

11  
DT-2

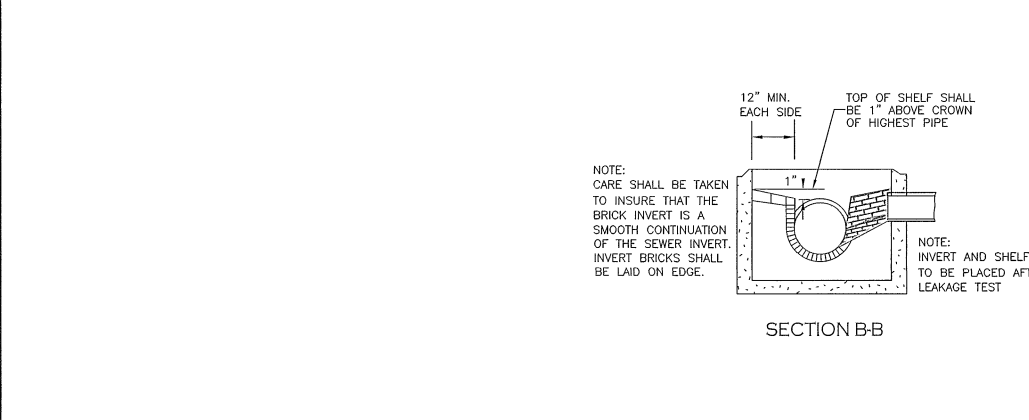
CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION  
**DIGSAFE.COM**  
 OR DIAL 8 1 1  
 CALL 811 - KNOW WHAT'S BELOW

CONSTRUCTION DETAILS  
 TAX MAP 536 LOTS 49, 50, 55, 56  
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 & 225 ELM STREET  
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 www.FieldstoneLandConsultants.com  
 FILE: 4200DT00A.dwg PROJ. NO. 4200.00 SHEET: DT-2



**NOTES:**

- IT IS INTENDED THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE SPACE REQUIREMENTS AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRECAST SECTIONS WITH STEEL REINFORCEMENT WITH ADEQUATE JOINTING PER ENR-WQ 704.10 (9). IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MANHOLE CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE. A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES.
- BARRELS AND CONE SECTIONS: SHALL BE PRECAST REINFORCED CONCRETE
- PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C 478.
- BASE SECTIONS: SHALL BE MONOLITHIC TO A POINT 6" ABOVE THE CROWN OF THE INCOMING PIPE, AND SHALL BE PRE-CAST REINFORCED CONCRETE.
- INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE DIRECTION OF FLOW. THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE. CROWN AND SLOPE TO DRAIN TOWARD THE FLOW THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY.
- FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN EQUAL TO CLASS 30, CONFORMING TO ASTM A48 AND PROVIDE A 30 INCH CLEAR OPENING. THE COVERS SHALL BE THE WORD "SEWER" IN 3 INCH HIGH LETTERS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
- BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 SIZE #67.
  - 100% PASSING 1 INCH SCREEN
  - 90-100% PASSING 3/4 INCH SCREEN
  - 20-55% PASSING 3/8 INCH SCREEN
  - 0-10% PASSING #4 SIEVE
  - 0-5% PASSING #8 SIEVE
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE. SCREENED GRAVEL OR CRUSHED STONE 1-1/2 TO 1/2 INCH SHALL BE USED.
- FLEXIBLE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITH THE FOLLOWING DISTANCES:
  - RCP & CI PIPE - ALL SIZES - 48"
  - PVC PIPE - UP THROUGH 15" DIAMETER - NO FLEXIBLE JOINT REQUIRED
- SHALLOW MANHOLE IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED. IT MUST HAVE AN ECCENTRIC ENTRANCE OPENING AND BE CAPABLE OF SUPPORTING H-20 LOADING.
- HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE SEALED WITH AN APPROVED ELASTOMERIC OR MASTIC-LIKE SEALANT IN ACCORDANCE WITH ENR-WQ 704.10 (f). A TYPE APPROVED BY THE ENGINEER, WHICH TYPE SHALL, IN GENERAL, DEPEND FOR WATER TIGHTNESS UPON AN MASTIC-LIKE OR ELASTOMERIC SEALANT
- PIPE TO MANHOLE JOINTS SHALL BE ONLY AS APPROVED BY THE ENGINEER AND IN GENERAL, WILL DEPEND FOR WATER TIGHTNESS UPON EITHER AN APPROVED NON-SHRINKING MORTAR OR ELASTOMERIC SEALANT.
- MATERIAL REQUIREMENTS FOR BRICK AND MORTAR SHALL CONFORM TO ENR-WQ 704.10 (k) (9) THROUGH (14)
- ALL SEWER CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS DEFINED BY CITY OF KEENE STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION. THESE STANDARD MANHOLE DRAWINGS ARE NOT COMPLETE WITHOUT THESE SPECIFICATIONS.



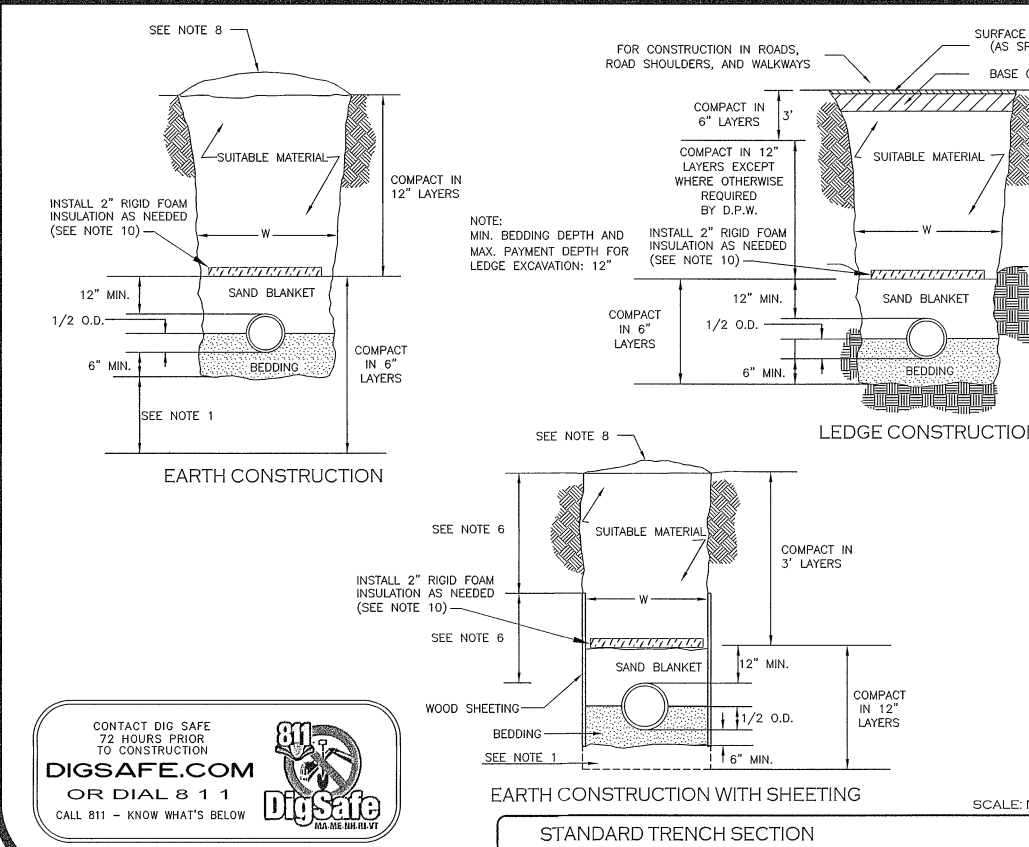
**NOTES:**

- HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ENGINEER, WHICH TYPE SHALL BE, IN GENERAL, DEPEND FOR WATER TIGHTNESS UPON AN ELASTOMERIC GASKET.
- MINIMUM SIZE PIPE FOR HOUSE SERVICE SHALL BE 4 INCHES.
- PIPE AND JOINT MATERIALS
  - A. PLASTIC SEWER PIPE
    - 1. PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:
 

ASTM STANDARDS	GENERIC PIPE MATERIAL	SIZES APPROVED
D3034	PVC (SOLID WALL)	8" THROUGH 15" (SDR 35)
F679	PVC (SOLID WALL)	18" THROUGH 27" (T-1 & T-2)
F789	PVC (SOLID WALL)	4" THROUGH 18" (T-1 TO T-3)
F794	PVC (RIBBED WALL)	8" THROUGH 36"
D2680	ABS (COMPOSITES WALL)	8" THROUGH 15"

 \*PVC: POLY VINYL CHLORIDE  
 \*ABS: ACRYLONITRILE-BUTADIENE-STYRENE
    - 2. JOINTS SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 AND SHALL BE PUSH-ON, BELL AND SPIGOT TYPE. ABS TRUSS PIPE AND FITTINGS SHALL CONFORM TO ASTM D-2680, POLYMER COMPOUNDING SHALL BE TO ASTM D-1788 (CLASS 322). JOINTS FOR ABS TRUSS PIPE SHALL BE CHEMICAL WELDED COUPLINGS TYPE SC IN ACCORDANCE WITH ASTM D-2680, FORMING A CHEMICAL WELDED JOINT.
  - B. DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE:
    - A21.50 DUCTILE DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A-536 DUCTILE IRON CASTINGS.
    - A21.51 DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS.
    - 2. JOINTS SHALL BE OF THE MECHANICAL OR PUSH-ON TYPE. JOINTS AND GASKETS SHALL CONFORM TO:
      - A21.11 RUBBER GASKETS JOINTS FOR CAST IRON PRESSURE PIPE AND FITTINGS.
- DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.
- JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER "Y" OR AT THE FOUNDATION WALL, APPROPRIATE ADAPTERS SHALL BE USED.
- "T" AND "Y" WHERE "T" OR "Y" IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE IN THE SEWER, FOLLOWING MANUFACTURERS INSTRUCTIONS USING A BOLTED, CLAMPED, OR EPOXY CEMENTED SADDLE TAPPED INTO A SMOOTHLY DRILLED OR SAWN OPENING. THE PRACTICE OF BREAKING AN OPENING WITH A SLEDGE HAMMER, STUFFING CLOTH (OR OTHER SUCH MATERIAL) AROUND THE JOINT OR APPLYING MORTAR TO HOLD THE CONNECTION AND ANY OTHER SIMILAR CRUDE PRACTICES OR INEPT OR HASTY IMPROVISATIONS WILL NOT BE PERMITTED. THE CONNECTION SHALL BE CONCRETE ENCASED, AS SHOWN IN THE DETAIL, UP TO AND INCLUDING 16" DIAMETER.
- HOUSE SEWER INSTALLATION THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDED ON A 4 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL, AS SPECIFIED IN NOTE 10, BEDDING AND RE-FILL FOR A DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE HOUSE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4 INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DRY THE TRENCH. 7. TESTING THE COMPLETED HOUSE SEWER SHALL BE SUBJECT TO A LEAKAGE TEST IN ANY OF THE FOLLOWING MANNERS (PRIOR TO BACKFILLING):
  - A. AN OBSERVATION "T" SHALL BE INSTALLED AS SHOWN. WHEN READY TESTING, AN INFLATABLE BLADDER OR PLUG SHALL BE INSERTED JUST UPSTREAM FROM THE OPENING IN THE "T". AFTER INFLATION, WATER SHALL BE INTRODUCED INTO THE SYSTEM ABOVE THE PLUG TO A HEIGHT OF 6 FEET ABOVE THE LEVEL OF THE PLUG.
  - B. THE PIPE SHALL BE LEFT EXPOSED AND LIBERALLY HOSED WITH WATER TO SIMULATE, AS NEARLY AS POSSIBLE, WET TRENCH CONDITIONS. IF THE TRENCH IS WET, THE GROUND WATER SHALL BE PERMITTED TO RISE IN THE TRENCH OVER THE PIPE. INSPECTIONS FOR LEAKS SHALL BE MADE THROUGH THE CLEANOUT WITH A FLASHLIGHT.
  - C. DRY FLUORESCENT DYE SHALL BE SPRINKLED INTO THE TRENCH OVER THE PIPE. IF THE TRENCH IS DRY, THE PIPE SHALL BE LIBERALLY HOSED WITH WATER. IF THE TRENCH IS WET, GROUND WATER SHALL BE PERMITTED TO RISE IN THE TRENCH OVER THE PIPE. OBSERVATION FOR LEAKS SHALL BE MADE IN THE FIRST MANHOLE DOWNSTREAM. LEAKAGE OBSERVED IN ANY OF THE ABOVE, ALTERNATE TESTS SHALL BE CAUSE FOR NON-ACCEPTANCE AND THE PIPE SHALL BE DUG UP, IF NECESSARY, AND RE-LAID SO AS TO ASSURE WATER TIGHTNESS.
- ILLEGAL CONNECTIONS NOTHING BUT SANITARY WASTE FLOW FROM THE HOUSE TOILETS, CEMENT, LAUNDRY, ETC. SHALL BE PERMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS OR ANY OTHER SIMILAR CONNECTION CARRYING RAIN WATER, DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED.
- HOUSE WATER SERVICE SHALL NOT BE LAID IN THE SAME TRENCH AS THE SEWER SERVICE.
- BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATERIAL AND MEETING ASTM C33-67.
  - 100% PASSING 1 INCH SCREEN
  - 90-100% PASSING 3/4 INCH SCREEN
  - 20-55% PASSING 3/8 INCH SCREEN
  - 0-10% PASSING #4 SIEVE
  - 0-5% PASSING #8 SIEVE
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, SCREENED GRAVEL OR CRUSHED STONE (1-1/2 TO 1/2 INCH) SHALL BE USED.
- CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE OF THE N.H. DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS AS FOLLOWS:
  - CEMENT: 8.0 BAGS PER CUBIC YARD
  - WATER: 5.75 GALS/BSY PER BAG OF CEMENT
  - MAXIMUM AGGREGATE SIZE: 1 INCH
  - NOTE: ANY SEWER PIPE TO BE ENCASED MUST BE MADE OF DUCTILE IRON.
- INSTALL TWO INCH THICK, DOW STYROFOAM™ BRAND HIGH-LOAD 40 (OR EQUAL) RIGID FOAM INSULATION WHERE LESS THAN FOUR (4) FEET OF COVER IS PROVIDED ON CROSS COUNTRY SEWER AND/OR LESS THAN SIX (6) FEET OF COVER IS PROVIDED UNDER PAVED AREAS.

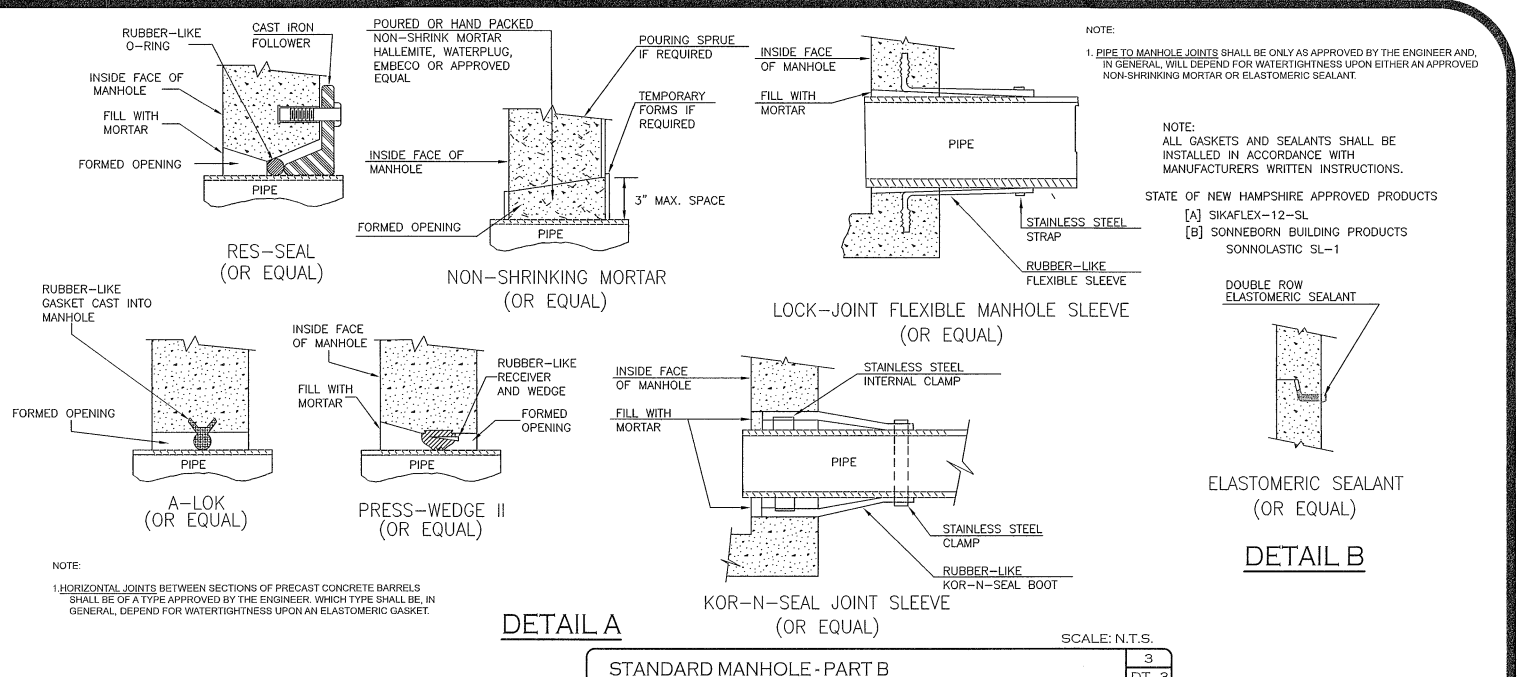
STANDARD MANHOLE - PART A  
SCALE: N.T.S.  
1 DT-3



**NOTES:**

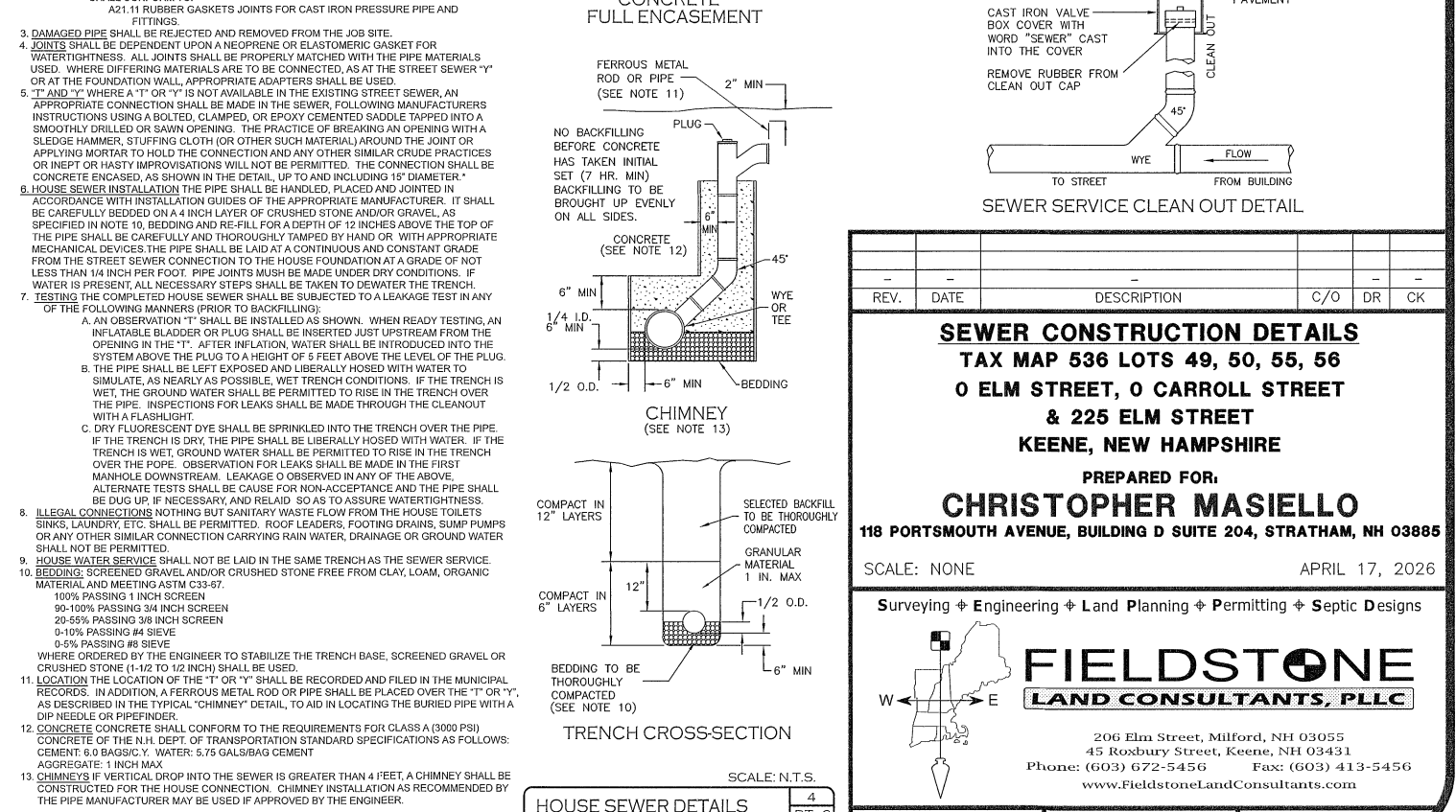
- ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE, REFILL WITH BEDDING MATERIAL. (SEE ALSO NOTE 7).
- BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33, STONE SIZE #67
  - 100% PASSING 1 INCH SCREEN
  - 90-100% PASSING 3/4 INCH SCREEN
  - 20-50% PASSING 3/8 INCH SCREEN
  - 0-10% PASSING #4 SIEVE
  - 0-5% PASSING #8 SIEVE
- SAND BLANKET: CLEAN SAND, FREE FROM ORGANIC MATTER, SO GRADED THAT 90-100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS #200 SIEVE. BLANKET MAY BE OMITTED FOR DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED THAT NO STONE LARGER THAN 2" IS IN CONTACT WITH THE PIPE.
- SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, RIGID PAVEMENT, ORGANIC MATTER, TOPSOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES, IN LARGEST DIMENSION OR ANY MATERIAL WHICH AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT TO MAINTAIN THE COMPLETED CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP-SOIL, LOAM, MUCK OR PEAT. IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE (AND POSSIBLY RECONSTRUCTION, WHEN NECESSARY) WILL BE PRESERVED.
- BASE COURSE: IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF N.H. DEPT. OF TRANSPORTATION.
- WOOD SHEETING: IF REQUIRED, IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER. IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE. WHERE THE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISH GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.
- W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D.. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
- FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUND TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE OF THE N.H. DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS AS FOLLOWS:
  - CEMENT: 8.0 BAGS PER CUBIC YARD
  - WATER: 5.75 GALS/BSY PER BAG OF CEMENT
  - MAXIMUM AGGREGATE SIZE: 1 INCH
  - NOTE: ANY SEWER PIPE TO BE ENCASED MUST BE MADE OF DUCTILE IRON.
- INSTALL TWO INCH THICK, DOW STYROFOAM™ BRAND HIGH-LOAD 40 (OR EQUAL) RIGID FOAM INSULATION WHERE LESS THAN FOUR (4) FEET OF COVER IS PROVIDED ON CROSS COUNTRY SEWER AND/OR LESS THAN SIX (6) FEET OF COVER IS PROVIDED UNDER PAVED AREAS.

STANDARD TRENCH SECTION  
SCALE: N.T.S.  
2 DT-3



**NOTES:**

- PIPE TO MANHOLE JOINTS SHALL BE ONLY AS APPROVED BY THE ENGINEER AND, IN GENERAL, WILL DEPEND FOR WATER TIGHTNESS UPON EITHER AN APPROVED NON-SHRINKING MORTAR OR ELASTOMERIC SEALANT.
- STATE OF NEW HAMPSHIRE APPROVED PRODUCTS
  - [A] SIKAFLEX-12-SL
  - [B] SONNEBORN BUILDING PRODUCTS SONNOLASTIC SL-1
- ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
- SCALE: N.T.S.  
3 DT-3



HOUSE SEWER DETAILS  
SCALE: N.T.S.  
4 DT-3

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TO CONSTRUCTION  
**DIGSAFE.COM**  
OR DIAL 8 1 1  
CALL 811 - KNOW WHAT'S BELOW

**SEWER CONSTRUCTION DETAILS**  
TAX MAP 536 LOTS 49, 50, 55, 56  
0 ELM STREET, 0 CARROLL STREET  
& 225 ELM STREET  
KEENE, NEW HAMPSHIRE

PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885

SCALE: NONE APRIL 17, 2026

Surveying + Engineering + Land Planning + Permitting + Septic Designs

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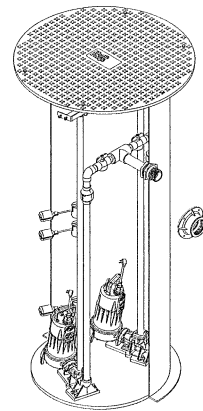
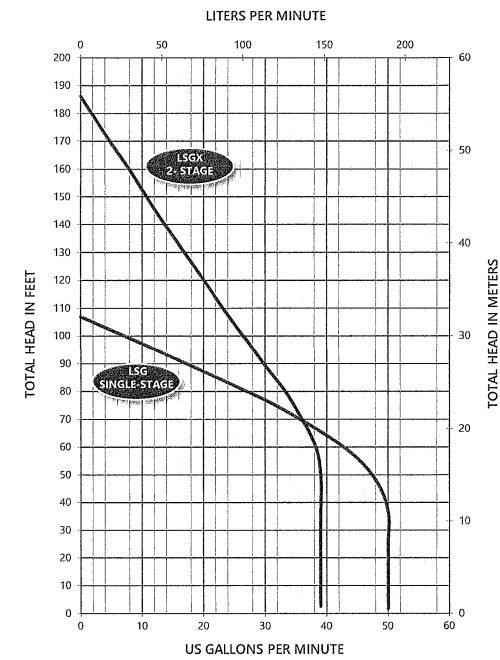
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45 Roxbury Street, Keene, NH 03431  
Phone: (603) 672-5456 Fax: (603) 413-5456  
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FILE: 4200DT0A.dwg PROJ. NO. 4200.00 SHEET: DT-3



**Product Specification**

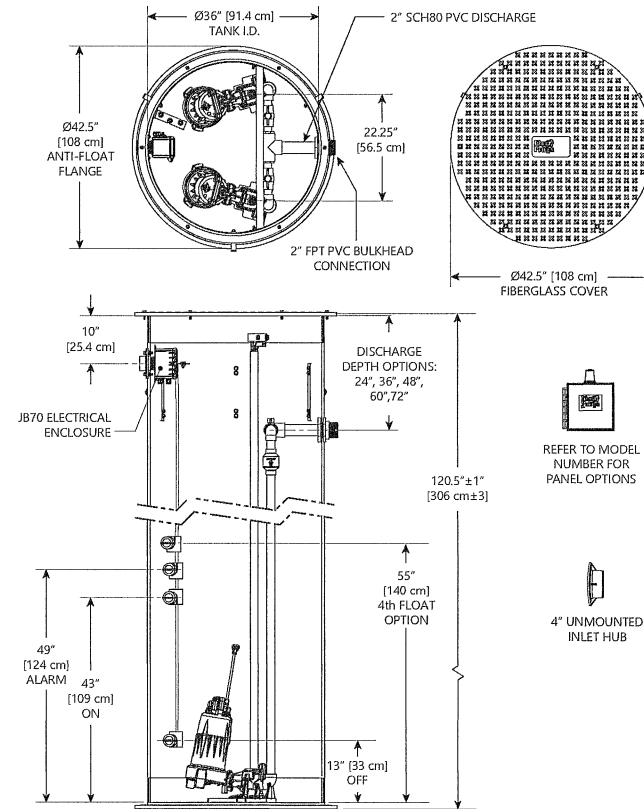
**D36120LSG/LSGX-Series**  
Omnivore® 2 hp Duplex Grinder Packages



**ATTENTION**  
For pressure sewer applications, verify a *Redundant Check Valve Assembly* (curb stop and check valve) is installed between the pump discharge and the street main, as close to the public right-of-way as possible, on all installations to protect from system pressures.

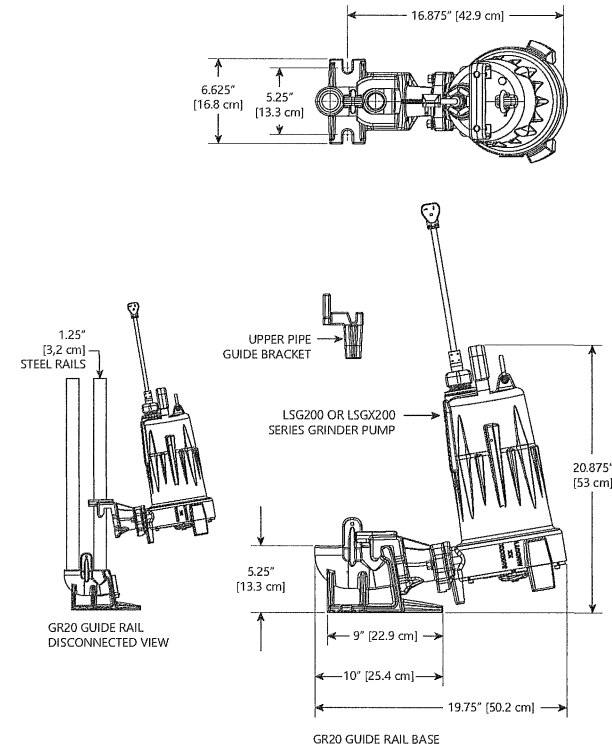
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SCALE: N.T.S.  
LIBERTY PUMP CHAMBER DETAIL 1 DT-4



REV.	DATE	DESCRIPTION	C/O	DR	CK
A	5/11/26	REVS PER CITY COMMENTS		CJC	JEN

**SEWER PUMP CHAMBER DETAILS**  
TAX MAP 536 LOTS 49, 50, 55, 56  
0 ELM STREET, 0 CARROLL STREET  
& 225 ELM STREET  
KEENE, NEW HAMPSHIRE  
PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885

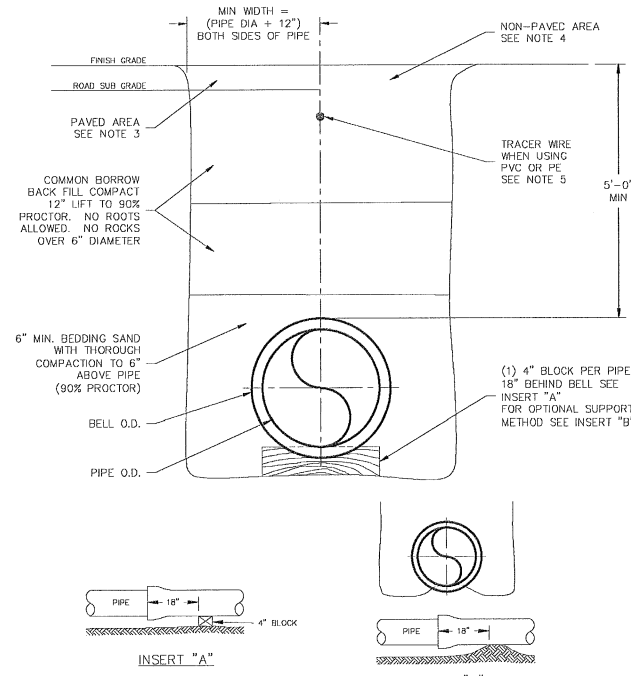
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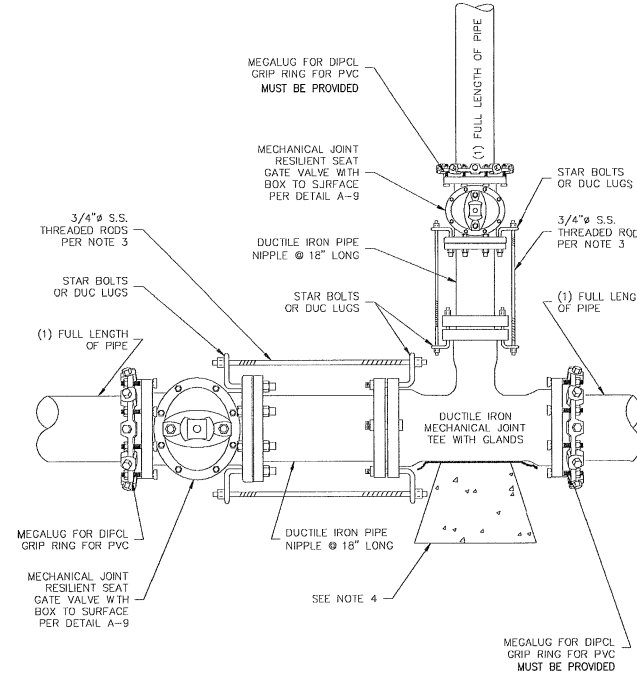
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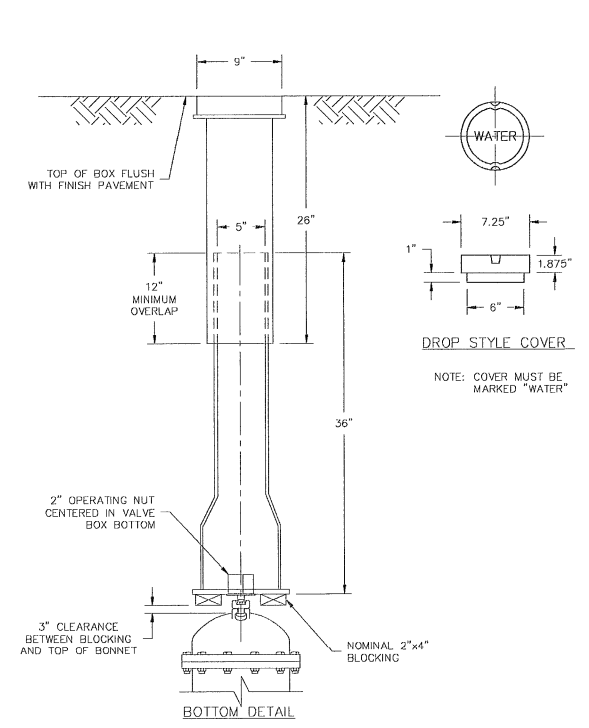
- NOTES:**
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO D.P.W. TECHNICAL SPECIFICATIONS.
  2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5'-0" FROM TOP OF PIPE TO FINISH GRADE. PROVIDE 2" THICK, 24" WIDE INSULATION WHERE COVER IS LESS THAN 4'.
  3. REQUIREMENTS FOR SUBBASE AND BASE MATERIAL TYPE ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN PAVED AREAS.
  4. REQUIREMENTS FOR GRAVEL, LHM AND/OR SEED ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN NON-PAVED AREAS.
  5. PROVIDE LOCATOR TAPE (TERRA TAPE SAFETY LINE 1300 OR EQUAL) ON ALL PIPES. TRACER WIRE FOR PVC OR HDPE MAINS SHALL BE AWG-12.

TYPICAL TRENCH DETAIL SCALE: N.T.S. 1 DT-5



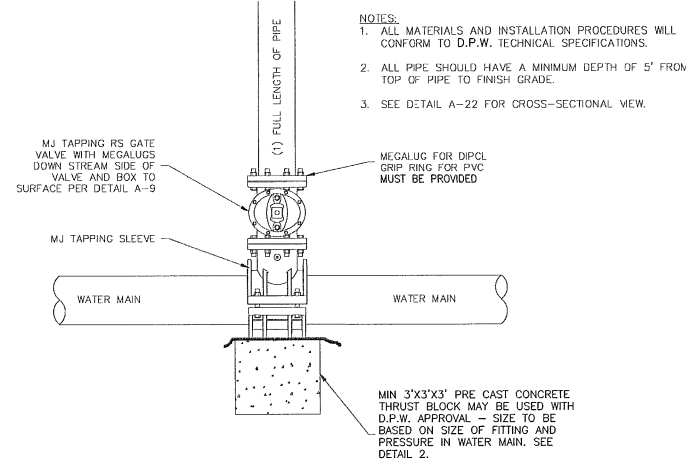
- NOTES:**
1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO D.P.W. TECHNICAL SPECIFICATIONS.
  2. ALL PIPE SHOULD HAVE A MINIMUM DEPTHS OF 5' FROM TOP OF PIPE TO FINISH GRADE.
  3. 3/4" S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS. 10" FITTING OR SMALLER = (2) 3/4" S.S. RODS & ASSOC. HARDWARE. 12" FITTING OR LARGER = (4) 3/4" S.S. RODS & ASSOC. HARDWARE.
  4. MIN 3'X3'X3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH D.P.W. APPROVAL - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL 2.

TYPICAL TEE INSTALLATION SCALE: N.T.S. 3 DT-5



- NOTES:**
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO D.P.W. TECHNICAL SPECIFICATIONS.
  2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.

TYPICAL VALVE BOX SCALE: N.T.S. 5 DT-5



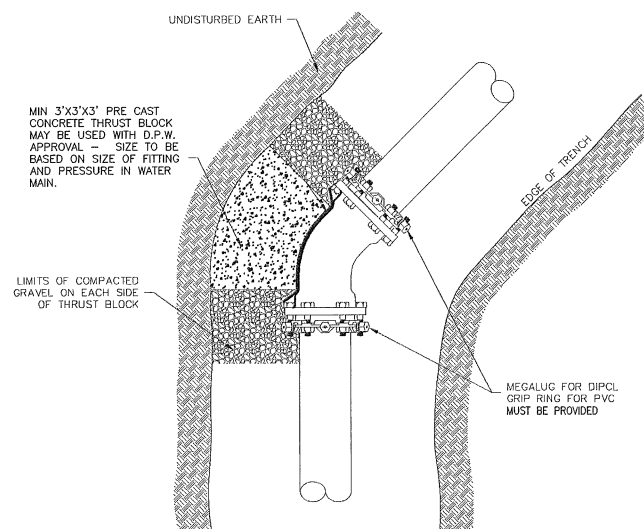
TYPICAL LARGE SERVICE AND/OR TAPPING SLEEVE SCALE: N.T.S. 7 DT-5

1. ALL WATER MAIN AND SERVICE CONNECTION CONSTRUCTION MUST COMPLY WITH KEENE DEPARTMENT OF PUBLIC WORKS CURRENT SPECIFICATIONS FOR WATER MAIN INSTALLATION, EXTENSIONS, SERVICE AND DISTRIBUTION SYSTEM.
2. ALL SPRINKLER AND DOMESTIC LEADS TO BUILDING SHALL END 5 FEET OUTSIDE THE FACE OF THE BUILDING WALL, UNLESS NOTED, AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END (FOR OTHERS TO REMOVE AND EXTEND THE LINE AS NECESSARY).
3. THRUST BLOCKS AND MEGALUG RESTRAINTS SHALL BE PROVIDED AT ALL HORIZONTAL BENDS, TEES, AND FIRE HYDRANTS PER DETAIL.
4. MINIMUM COVER ON ALL WATER LINES IS 5'-6".
5. CONTRACTOR SHALL MAINTAIN A 5'-0" HORIZONTAL SEPARATION (UNLESS OTHERWISE NOTED) AND 6" VERTICAL SEPARATION BETWEEN WATER SERVICE AND UTILITIES OTHER THAN SANITARY SEWER MAINS.
6. INSPECTIONS ON WATER SERVICE INSTALLATION DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR AND SHALL BE COORDINATED WITH KEENE PUBLIC WORKS. ALL INSPECTION FEES SHALL BE PAID FOR BY THE CONTRACTOR.
7. CONTRACTOR SHALL HAVE BACTERIOLOGICAL AND PRESSURE TESTING PERFORMED. CONTRACTOR SHALL GIVE KEENE PUBLIC WORKS DEPARTMENT (350 MARLBORO STREET, KEENE, NH 03431) A COPY OF THE RESULTS. A KEENE PUBLIC WORKS REPRESENTATIVE SHALL BE ON-SITE TO WITNESS TEST.
8. ALL PIPE, VALVES, MISCELLANEOUS MATERIALS AND INSTALLATION SHALL CONFORM TO KEENE PUBLIC WORKS SPECIFICATIONS.
9. ALL FIRE HYDRANTS, VALVES, FITTINGS, PIPES, ETC. SHALL BE IN ACCORDANCE WITH KEENE PUBLIC WORKS SPECIFICATIONS.
10. METALLIC TAPE OR DETECTOR WIRE SHALL BE INSTALLED IN THE SAME TRENCH WITH ALL NONMETALLIC PIPE SUCH THAT THE PIPE MAY BE LOCATED WITH ELECTRONIC LOCATING EQUIPMENT. METALLIC TAPE OR DETECTOR WIRE SHALL BE INSTALLED APPROXIMATELY 12" TO 18" BELOW GRADE DIRECTLY ABOVE THE TOP OF THE PIPE. DETECTOR WIRE SHALL BE 14 GAUGE SOLID COPPER, SIMPLEX BW3001 OR EQUAL. METALLIC TAPE SHALL BE 2" MINIMUM METALIZED TAPE, GRIFFOLYN COMPANY, INC., TERRATAPE OR EQUAL.
11. CONTRACTOR SHALL ENSURE ALL WATER VALVES ARE IN A FULLY OPEN POSITION UPON COMPLETION OF PROJECT.
12. CONTRACTOR SHALL COORDINATE ALL WATER INTERRUPTIONS WITH THE TOWN AND AFFECTED PROPERTY OWNERS.

WATER SYSTEM CONSTRUCTION NOTES 8 DT-5

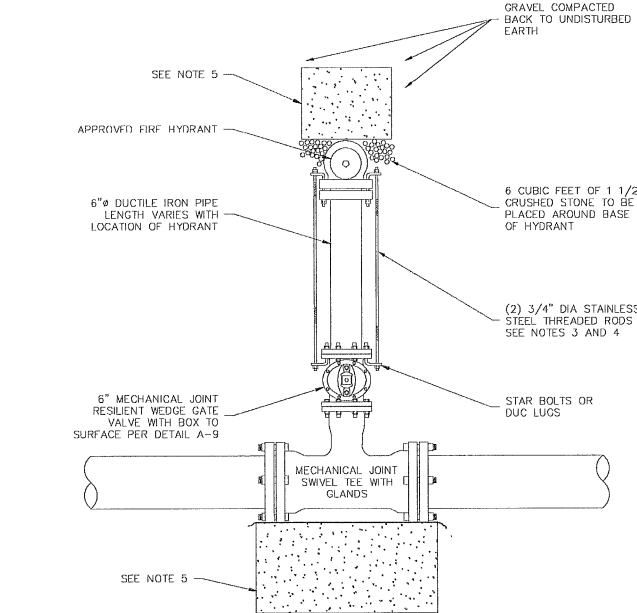
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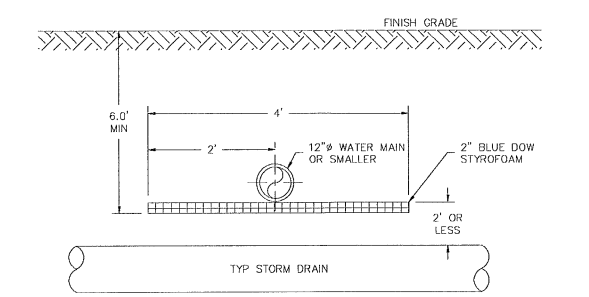
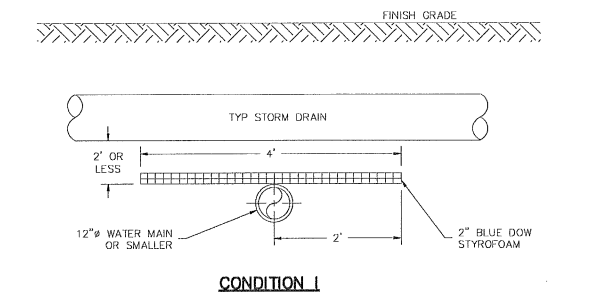
- NOTES:**
1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO D.P.W. TECHNICAL SPECIFICATIONS.
  2. ALL PIPE SHOULD HAVE A MINIMUM DEPTHS OF 5' FROM TOP OF PIPE TO FINISH GRADE.
  3. 3/4" S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS. 10" FITTING OR SMALLER = (2) 3/4" S.S. RODS & ASSOC. HARDWARE. 12" FITTING OR LARGER = (4) 3/4" S.S. RODS & ASSOC. HARDWARE.
  4. MIN 3'X3'X3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH D.P.W. APPROVAL - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN.

TYPICAL THRUST BLOCK BEHIND FITTINGS SCALE: N.T.S. 2 DT-5



- NOTES:**
1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO D.P.W. TECHNICAL SPECIFICATIONS.
  2. ALL PIPE SHOULD HAVE A MINIMUM DEPTHS OF 5' FROM TOP OF PIPE TO FINISH GRADE.
  3. 3/4" S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS. 10" FITTING OR SMALLER = (2) 3/4" S.S. RODS & ASSOC. HARDWARE. 12" FITTING OR LARGER = (4) 3/4" S.S. RODS & ASSOC. HARDWARE.
  4. WHEN DISTANCE FROM WATER MAIN TO HYDRANT IS MORE THAN 12' SUBSTITUTE MEGALUGS (OR GRIP RINGS) IN LIEU OF THREADED RODS.
  5. MIN 3'X3'X3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH D.P.W. APPROVAL - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL 2.
  6. OWNER/ENGINEER SHALL APPROVE ALL HYDRANT LOCATIONS IN FIELD PRIOR TO INSTALLATION.
  7. PLUG HYDRANT DRAIN PORT WITH BRASS PLUG.
  8. USE MJ HYDRANT ANCHOR TEE AND RESTRAINED MJ DI PIPE IN LIEU OF STAINLESS STEEL RODS.
  9. ALL HYDRANTS TO OPEN RIGHT (CR).

TYPICAL HYDRANT INSTALLATION SCALE: N.T.S. 4 DT-5



- NOTES:**
1. DEPARTMENT OF PUBLIC WORKS RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
  2. THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND 1' STORM DRAIN PIPE DIAMETER BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION OR A MINIMUM OF 2' BEYOND THE CENTERLINE OF THE STORM DRAIN PIPE, WHICHEVER IS GREATER.
  3. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH A 1' PIECE OF INSULATION CENTERED OVER SEAM.

STORM DRAIN / WATER MAIN INTERSECTING RUNS SCALE: N.T.S. 6 DT-5

REV.	DATE	REVS PER CITY COMMENTS	C/O	JEN	DR	CK
A	5/11/26					

**WATER CONSTRUCTION DETAILS**  
TAX MAP 536 LOTS 49, 50, 55, 56  
0 ELM STREET, 0 CARROLL STREET  
& 225 ELM STREET  
KEENE, NEW HAMPSHIRE

PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885

SCALE: NONE APRIL 17, 2026

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# Storm Water Management Report

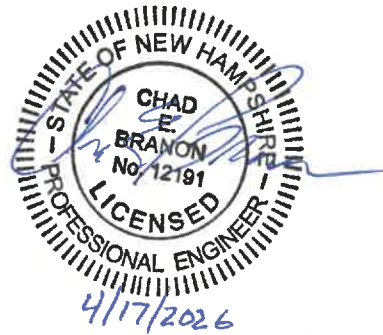
## ELM CITY COMMONS

### Project Location:

Tax Map 536 Lot 49, 50, 55, 56  
0 Elm Street & 0 Carroll Street  
Keene, NH 03431

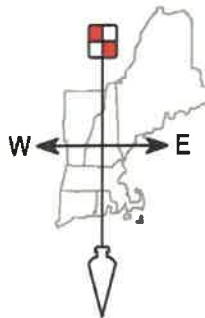
### Prepared for:

Christopher Masiello  
538 Main Street  
Walpole, NH 03608



Date: April 17, 2026

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs



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# Index

Narrative with Summary Tables

Web Soil Survey

Aerial Photograph

Extreme Precipitation Table

## **Drainage Analysis / Storm Water Management Report:**

Section 1.1 Existing Conditions – 2, 25 & 50 Storm Summary

Section 1.2 Existing Conditions – 10 Year Storm Full Summary

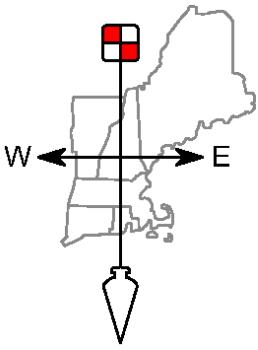
Section 2.1 Proposed Conditions – 2, 25 & 50 Storm Summary

Section 2.2 Proposed Conditions – 10 Year Storm Full Summary

## **Supplemental Data:**

Section 3.1 Inspection & Maintenance Manual

Section 3.2 Drainage Area Plans



# FIELDSTONE

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**STORM WATER MANAGEMENT REPORT  
TAX MAP PARCELS 536, LOTS 49, 50, 55, 56  
ELM CITY COMMONS  
ELM & CARROLL STREETS  
KEENE, NEW HAMPSHIRE**

Prepared for:

Christopher Masiello & Nuevo Transfers, LLC

April 17, 2026

## I) INTRODUCTION

The following are storm water drainage calculations for the proposed Elm City Commons Cottage Court Development on Tax Map 536, Lots 49, 50, 55, and 56 in Keene, NH. The proposal consists of developing these parcels located on Elm Street and Carroll Street, in a Cottage Court townhouse residential development with 14 dwelling units. The development will utilize a private central driveway with access to both Elm Street and Carroll Street. This layout will provide condominium style ownership for future homeowners with a goal of providing much needed affordable, owner-occupied housing. This project will disturb 30,000± square feet of area within the new boundary after merging the four building parcels. The new area of the merged lot will be 0.746 Acres with a total of 372-feet of frontage.

The purpose of this report is to analyze the qualitative and quantitative impacts of the proposed development. The objective of the proposed stormwater management system for this project is to mitigate any increases resulting from the proposed development and to meet the drainage guidelines set forth in the City of Keene's Land Development Code.

## II) SITE DESCRIPTION (EXISTING)

The subject property is currently an undeveloped area that consists of four (4) small building lots. There was a home on one of the lots that was demolished many years ago and the foundation removed. There are no wetlands on the parcels. The site is a mix of gravel fill, old excavation holes, and is mostly vegetated in brush. NRCS soil survey maps indicated that the soils present on the property consists of Searsport Mucky Peat (15), Windsor Loamy Sand (26B), Monadnock Fine Sandy Loam (142C) and Ossipee Mucky Peat (495). The soils are a mix of Hydrologic Soil Group (HSG) "A", HSG "B", and HSG "D" soils.

### III) METHODOLOGY

The quantity of runoff and the conveyance of that flow through the site are determined using the software package HydroCAD r 10.0 by HydroCAD Software Solutions, LLC. HydroCAD is a computer aided design program for modeling storm water hydrology based on the Soil Conservation Service (SCS) TR-20 method combined with standard hydraulics calculations used to model detention basins and culverts.

Stormwater management systems and erosion control are designed in accordance with the methodology for the "Best Management Practices" (BMP's), as outlined in the New Hampshire Storm Water Manual, Volume 2.

### IV) DRAINAGE DESIGN

In accordance with the City of Keene LDC and the NHDES Alteration of Terrain, there will be no increase in the peak flow of surface runoff. In order to demonstrate this the two (2), ten (10), twenty-five (25) and fifty (50) year frequency storm events have been evaluated. These storm events have been analyzed to compare the Pre and Post-development peak flow rates for the site (see attached comparison table). The stormwater model uses the 24-hour listed Extreme Precipitation Tables by Cornell University for the location of the site. Those values are as follows:

2 Year = 2.76 inches    10 Year = 3.98 inches    25 Year = 4.92 inches    50 Year = 5.77 inches

#### Pre-Development Drainage Conditions:

As can be seen on the Pre-Development drainage plan, the property drains toward the northern boundary and ultimately to Elm Street's closed drainage system, modeled as observation point (OP1). The subcatchment, E1S, consists of the entire proposed development area and outlines the flow towards the northern boundary and Elm Street. The property has historically been used for residential homes, although the homes were removed many years ago and the land left vacant. There are some trees along the southern boundary and mostly brush on the remainder of the lot.

#### Post-Development Drainage Conditions:

As can be seen on the Post-Development Drainage Plan, the proposed drainage flows from the site and ultimately into the Elm Street closed drainage system, defined as Observation Point 1 (OP1). The proposed site has been graded to low points near the intersections of both driveways. The driveway is crowned and will direct runoff into pavement flumes and grass swales at each end of the buildings. The grass swales will direct the water to the bioretention basins at the rear of each building, along the southern and northern boundaries. The bioretention basins will utilize landscaping and a filter layer to provide treatment of the stormwater while having volume above

the filter media to handle the 50 year storm event without overtopping. The bioretention basins will have underdrains tied into a catch basin outlet structure. The outlet structures will have raised outlet culverts, that are elevated slightly above the underdrain elevations. The outlet structures will be tied into the existing catch basins in Elm Street at CB 1010 and CB 1009. The rear building roof runoff will be captured via stone drip strips. The drip strips will reduce velocity, prevent splashing of water/loam onto the building, and allow for some infiltration of stormwater.

## V) SUMMARY

The intent of the stormwater management system for this project is to address the qualitative and quantitative aspects of the stormwater runoff so that there are no downstream adverse impacts created by the project. The proposed development will result in no increase in stormwater flow to the observation point due to the site improvements.

The net result is that new paved areas and building roofs will receive qualitative treatment and that due to the proposed Stormwater BMPs there will be no increase in the peak rates of runoff leaving the site. This will be achieved by constructing four (4) pavement flumes, four (4) grass treatment swales, two (2) stone drip strips, and two (2) bioretention basins.

The following table is a summary of the attached calculations and show a comparison of the peak flow rates at the observation points for the site. The values presented are based on pre- and post-development conditions.

**Table 1.1: Peak Flow Rates (CFS) and Volume (AF) Offsite to ELM STREET - OP1**

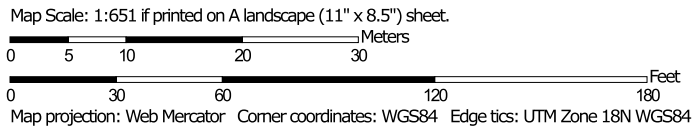
<b>STORM FREQUENCY</b>	<b>PRE-DEV. RUNOFF (CFS / AF)</b>	<b>POST-DEV. RUNOFF (CFS / AF)</b>	<b>CHANGE (CFS / AF)</b>
<b>2-YEAR</b>	<b>0.21 / 0.036</b>	<b>0.24 / 0.074</b>	<b>+0.03 / +0.038</b>
<b>10-YEAR</b>	<b>0.53 / 0.082</b>	<b>0.40 / 0.126</b>	<b>-0.13 / +0.044</b>
<b>25-YEAR*</b>	<b>0.82 / 0.123</b>	<b>0.48 / 0.169</b>	<b>-0.34 / +0.046</b>
<b>50-YEAR</b>	<b>1.10 / 0.163</b>	<b>0.90 / 0.209</b>	<b>-0.20 / +0.046</b>

\*25 YEAR STORM EVENT IS REQUIRED BY THE CITY OF KEENE LDC STANDARDS

Soil Map—Cheshire County, New Hampshire



Soil Map may not be valid at this scale.




**Natural Resources  
Conservation Service**

Web Soil Survey  
National Cooperative Soil Survey

4/16/2026  
Page 1 of 3

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**






 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning:** Soil Map may not be valid at this scale.  
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cheshire County, New Hampshire  
 Survey Area Data: Version 29, Sep 9, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 15, 2020—Oct 31, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
15	Searsport mucky peat	0.4	33.8%
26B	Windsor loamy sand, 3 to 8 percent slopes	0.1	9.4%
142C	Monadnock fine sandy loam, 8 to 15 percent slopes	0.4	30.0%
495	Ossipee mucky peat	0.3	26.8%
<b>Totals for Area of Interest</b>		<b>1.3</b>	<b>100.0%</b>





# AERIAL

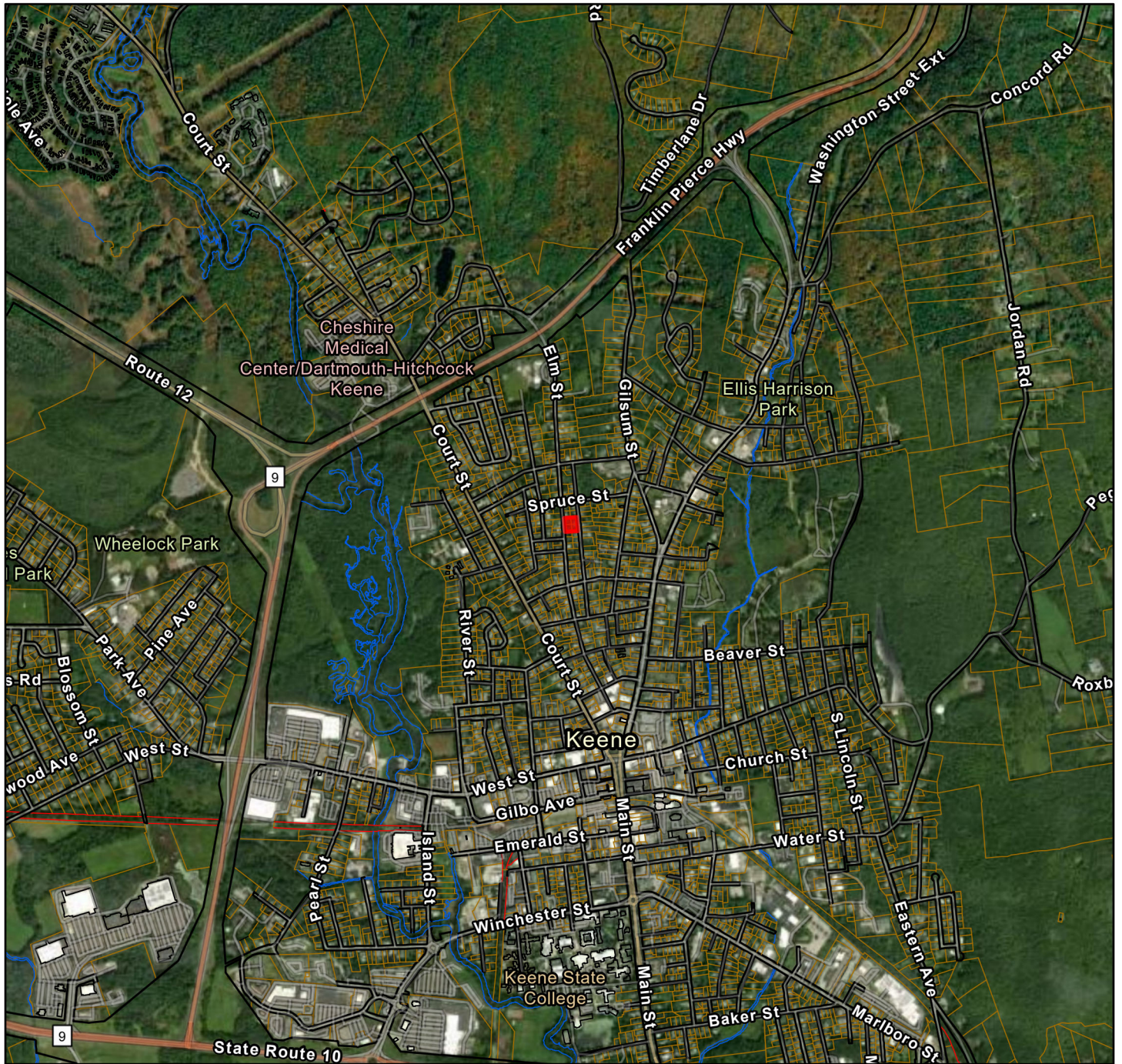
City of Keene, NH

1 inch = 2000 Feet



www.cai-tech.com

April 16, 2026



	Common Line		PWater		Public Road
	Condo		Private Road		Railroad
	Dispute		Property Line		

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

# 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	New Hampshire
Location	New Hampshire, United States
Latitude	42.943 degrees North
Longitude	72.281 degrees West
Elevation	150 feet
Date/Time	Thu Apr 16 2026 10:33:09 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	0.70	0.87	1.09	1yr	0.75	1.01	1.25	1.54	1.90	2.34	2.60	1yr	2.07	2.50	2.89	3.52	4.09	1yr
2yr	0.34	0.52	0.65	0.85	1.07	1.34	2yr	0.93	1.20	1.53	1.87	2.28	2.76	3.11	2yr	2.44	2.99	3.50	4.17	4.77	2yr
5yr	0.40	0.63	0.78	1.05	1.34	1.68	5yr	1.16	1.51	1.93	2.35	2.84	3.40	3.88	5yr	3.01	3.73	4.34	5.12	5.83	5yr
10yr	0.45	0.71	0.90	1.22	1.59	2.01	10yr	1.37	1.79	2.30	2.80	3.35	3.98	4.59	10yr	3.52	4.41	5.10	5.98	6.79	10yr
25yr	0.54	0.86	1.09	1.50	1.99	2.53	25yr	1.72	2.25	2.90	3.51	4.19	4.92	5.73	25yr	4.35	5.51	6.33	7.34	8.31	25yr
50yr	0.61	0.98	1.25	1.76	2.37	3.02	50yr	2.04	2.68	3.47	4.19	4.95	5.77	6.79	50yr	5.11	6.53	7.46	8.58	9.69	50yr
100yr	0.70	1.13	1.46	2.07	2.81	3.60	100yr	2.43	3.18	4.13	4.97	5.85	6.78	8.04	100yr	6.00	7.73	8.79	10.04	11.30	100yr
200yr	0.80	1.30	1.69	2.42	3.34	4.29	200yr	2.88	3.79	4.93	5.91	6.92	7.96	9.54	200yr	7.05	9.17	10.37	11.75	13.18	200yr
500yr	0.96	1.58	2.06	2.99	4.19	5.40	500yr	3.62	4.77	6.21	7.42	8.64	9.86	11.96	500yr	8.73	11.50	12.90	14.47	16.16	500yr

### Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.23	0.36	0.43	0.58	0.72	0.84	1yr	0.62	0.82	0.97	1.25	1.55	2.11	2.37	1yr	1.86	2.28	2.60	3.26	3.59	1yr
2yr	0.32	0.50	0.61	0.83	1.02	1.17	2yr	0.88	1.15	1.34	1.71	2.15	2.69	3.05	2yr	2.38	2.93	3.42	4.08	4.66	2yr
5yr	0.37	0.57	0.70	0.96	1.23	1.40	5yr	1.06	1.37	1.57	2.00	2.50	3.19	3.64	5yr	2.83	3.50	4.03	4.83	5.48	5yr
10yr	0.41	0.62	0.77	1.08	1.39	1.59	10yr	1.20	1.55	1.77	2.25	2.79	3.61	4.17	10yr	3.20	4.01	4.65	5.48	6.19	10yr
25yr	0.46	0.70	0.87	1.24	1.64	1.88	25yr	1.41	1.84	2.08	2.63	3.22	4.29	4.97	25yr	3.79	4.78	5.54	6.47	7.29	25yr
50yr	0.51	0.77	0.96	1.38	1.86	2.14	50yr	1.60	2.09	2.34	2.97	3.58	4.90	5.68	50yr	4.33	5.46	6.34	7.37	8.27	50yr
100yr	0.56	0.84	1.05	1.52	2.09	2.42	100yr	1.80	2.37	2.65	3.35	3.98	5.60	6.52	100yr	4.96	6.27	7.29	8.41	9.38	100yr
200yr	0.61	0.92	1.17	1.69	2.36	2.75	200yr	2.03	2.68	2.99	3.79	4.43	6.42	7.48	200yr	5.68	7.20	8.38	9.60	10.67	200yr
500yr	0.70	1.04	1.34	1.95	2.77	3.24	500yr	2.39	3.17	3.52	4.46	5.09	7.72	9.01	500yr	6.83	8.67	10.10	11.50	12.67	500yr

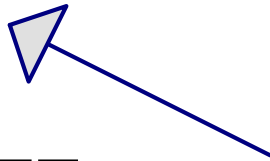
### Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.31	0.48	0.58	0.79	0.97	1.13	1yr	0.83	1.11	1.26	1.58	2.00	2.50	2.81	1yr	2.21	2.70	3.10	3.74	4.37	1yr
2yr	0.35	0.55	0.67	0.91	1.12	1.28	2yr	0.97	1.25	1.44	1.81	2.29	2.83	3.22	2yr	2.51	3.10	3.61	4.29	4.91	2yr
5yr	0.44	0.68	0.84	1.15	1.46	1.69	5yr	1.26	1.65	1.86	2.30	2.84	3.64	4.17	5yr	3.22	4.01	4.66	5.47	6.24	5yr
10yr	0.53	0.81	1.01	1.40	1.81	2.10	10yr	1.57	2.06	2.28	2.77	3.38	4.41	5.08	10yr	3.91	4.88	5.63	6.57	7.49	10yr
25yr	0.68	1.03	1.28	1.83	2.41	2.81	25yr	2.08	2.75	2.97	3.52	4.23	5.68	6.60	25yr	5.02	6.35	7.26	8.35	9.53	25yr
50yr	0.81	1.24	1.54	2.22	2.98	3.50	50yr	2.57	3.42	3.63	4.24	5.02	6.86	8.05	50yr	6.08	7.74	8.79	10.03	11.44	50yr
100yr	0.99	1.49	1.87	2.70	3.70	4.37	100yr	3.20	4.27	4.44	5.09	5.96	8.29	9.82	100yr	7.34	9.44	10.64	12.04	13.72	100yr
200yr	1.20	1.80	2.28	3.31	4.61	5.47	200yr	3.98	5.34	5.43	6.13	7.09	10.02	11.97	200yr	8.86	11.51	12.89	14.44	16.45	200yr
500yr	1.55	2.31	2.97	4.32	6.14	7.35	500yr	5.30	7.19	7.09	7.83	8.91	12.83	15.54	500yr	11.36	14.94	16.58	18.35	20.92	500yr

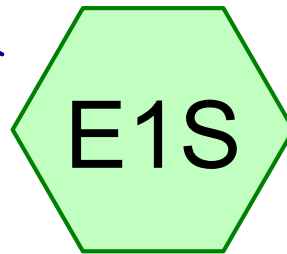


## Section 1.1

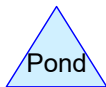
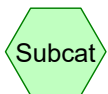
Existing Conditions  
2, 25 & 50 Year Storm Summary



ELM STREET



LOT



**Routing Diagram for 4200.00\_PRE\_DEV**  
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**4200.00\_PRE\_DEV**

*Type III 24-hr 2 Year Storm Rainfall=2.76"*

Prepared by Fieldstone Land Consultants

Printed 4/16/2026

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Page 2

Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

**Subcatchment E1S: LOT**

Runoff Area=32,494 sf 0.00% Impervious Runoff Depth=0.59"  
Flow Length=228' Tc=41.0 min CN=70 Runoff=0.21 cfs 0.036 af

**Link OP1: ELM STREET**

Inflow=0.21 cfs 0.036 af  
Primary=0.21 cfs 0.036 af

**Total Runoff Area = 0.746 ac Runoff Volume = 0.036 af Average Runoff Depth = 0.59"**  
**100.00% Pervious = 0.746 ac 0.00% Impervious = 0.000 ac**

**4200.00\_PRE\_DEV**

Type III 24-hr 25 Year Storm Rainfall=4.92"

Prepared by Fieldstone Land Consultants

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Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

**Subcatchment E1S: LOT**

Runoff Area=32,494 sf 0.00% Impervious Runoff Depth=1.98"  
Flow Length=228' Tc=41.0 min CN=70 Runoff=0.82 cfs 0.123 af

**Link OP1: ELM STREET**

Inflow=0.82 cfs 0.123 af  
Primary=0.82 cfs 0.123 af

**Total Runoff Area = 0.746 ac Runoff Volume = 0.123 af Average Runoff Depth = 1.98"**  
**100.00% Pervious = 0.746 ac 0.00% Impervious = 0.000 ac**

**4200.00\_PRE\_DEV**

Type III 24-hr 50 Year Storm Rainfall=5.77"

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Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

**Subcatchment E1S: LOT**

Runoff Area=32,494 sf 0.00% Impervious Runoff Depth=2.62"  
Flow Length=228' Tc=41.0 min CN=70 Runoff=1.10 cfs 0.163 af

**Link OP1: ELM STREET**

Inflow=1.10 cfs 0.163 af  
Primary=1.10 cfs 0.163 af

**Total Runoff Area = 0.746 ac Runoff Volume = 0.163 af Average Runoff Depth = 2.62"**  
**100.00% Pervious = 0.746 ac 0.00% Impervious = 0.000 ac**

## Section 1.2

### Existing Conditions 10 Year Storm Full Summary

**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
0.023	30	Brush, Good, HSG A (E1S)
0.198	48	Brush, Good, HSG B (E1S)
0.354	73	Brush, Good, HSG D (E1S)
0.009	96	Gravel surface, HSG B (E1S)
0.163	96	Gravel surface, HSG D (E1S)
<b>0.746</b>	<b>70</b>	<b>TOTAL AREA</b>

**Soil Listing (all nodes)**

Area (acres)	Soil Group	Subcatchment Numbers
0.023	HSG A	E1S
0.207	HSG B	E1S
0.000	HSG C	
0.517	HSG D	E1S
0.000	Other	
<b>0.746</b>		<b>TOTAL AREA</b>

**4200.00\_PRE\_DEV**

Type III 24-hr 10 Year Storm Rainfall=3.98"

Prepared by Fieldstone Land Consultants

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Page 3

Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

**Subcatchment E1S: LOT**

Runoff Area=32,494 sf 0.00% Impervious Runoff Depth=1.32"  
Flow Length=228' Tc=41.0 min CN=70 Runoff=0.53 cfs 0.082 af

**Link OP1: ELM STREET**

Inflow=0.53 cfs 0.082 af  
Primary=0.53 cfs 0.082 af

**Total Runoff Area = 0.746 ac Runoff Volume = 0.082 af Average Runoff Depth = 1.32"**  
**100.00% Pervious = 0.746 ac 0.00% Impervious = 0.000 ac**

**Summary for Subcatchment E1S: LOT**

Runoff = 0.53 cfs @ 12.62 hrs, Volume= 0.082 af, Depth= 1.32"  
 Routed to Link OP1 : ELM STREET

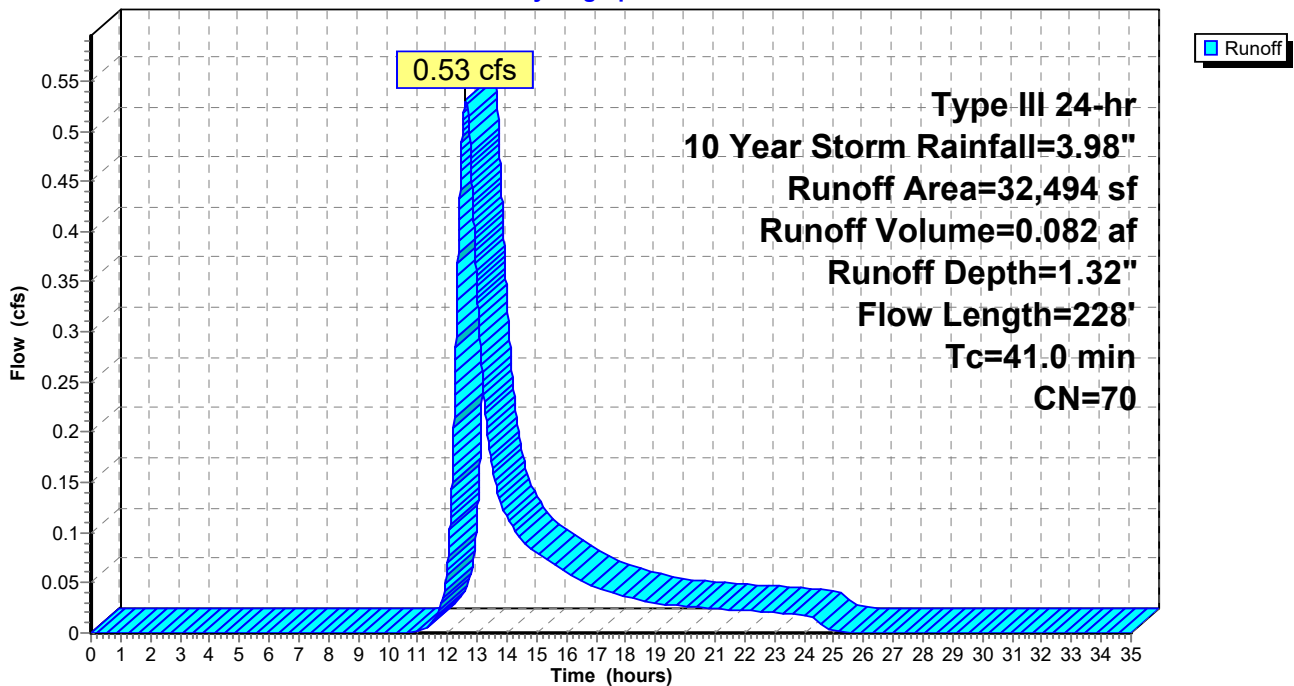
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
981	30	Brush, Good, HSG A
385	96	Gravel surface, HSG B
8,622	48	Brush, Good, HSG B
6,560	96	Gravel surface, HSG D
538	96	Gravel surface, HSG D
15,408	73	Brush, Good, HSG D
32,494	70	Weighted Average
32,494		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.2	100	0.0300	0.05		<b>Sheet Flow, A-B</b> Woods: Dense underbrush n= 0.800 P2= 2.76"
6.8	128	0.0039	0.31		<b>Shallow Concentrated Flow, B-C</b> Woodland Kv= 5.0 fps
41.0	228	Total			

**Subcatchment E1S: LOT**

Hydrograph



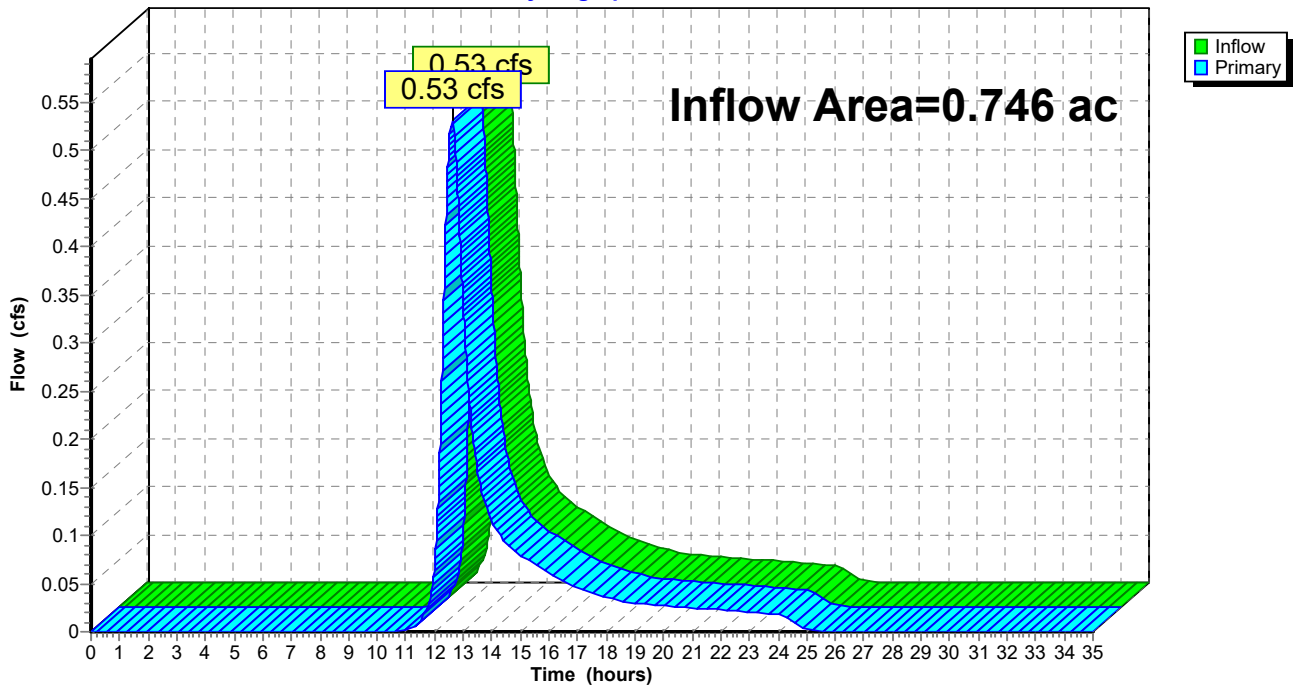
### Summary for Link OP1: ELM STREET

Inflow Area = 0.746 ac, 0.00% Impervious, Inflow Depth = 1.32" for 10 Year Storm event  
Inflow = 0.53 cfs @ 12.62 hrs, Volume= 0.082 af  
Primary = 0.53 cfs @ 12.62 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs

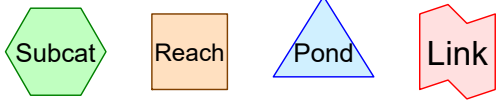
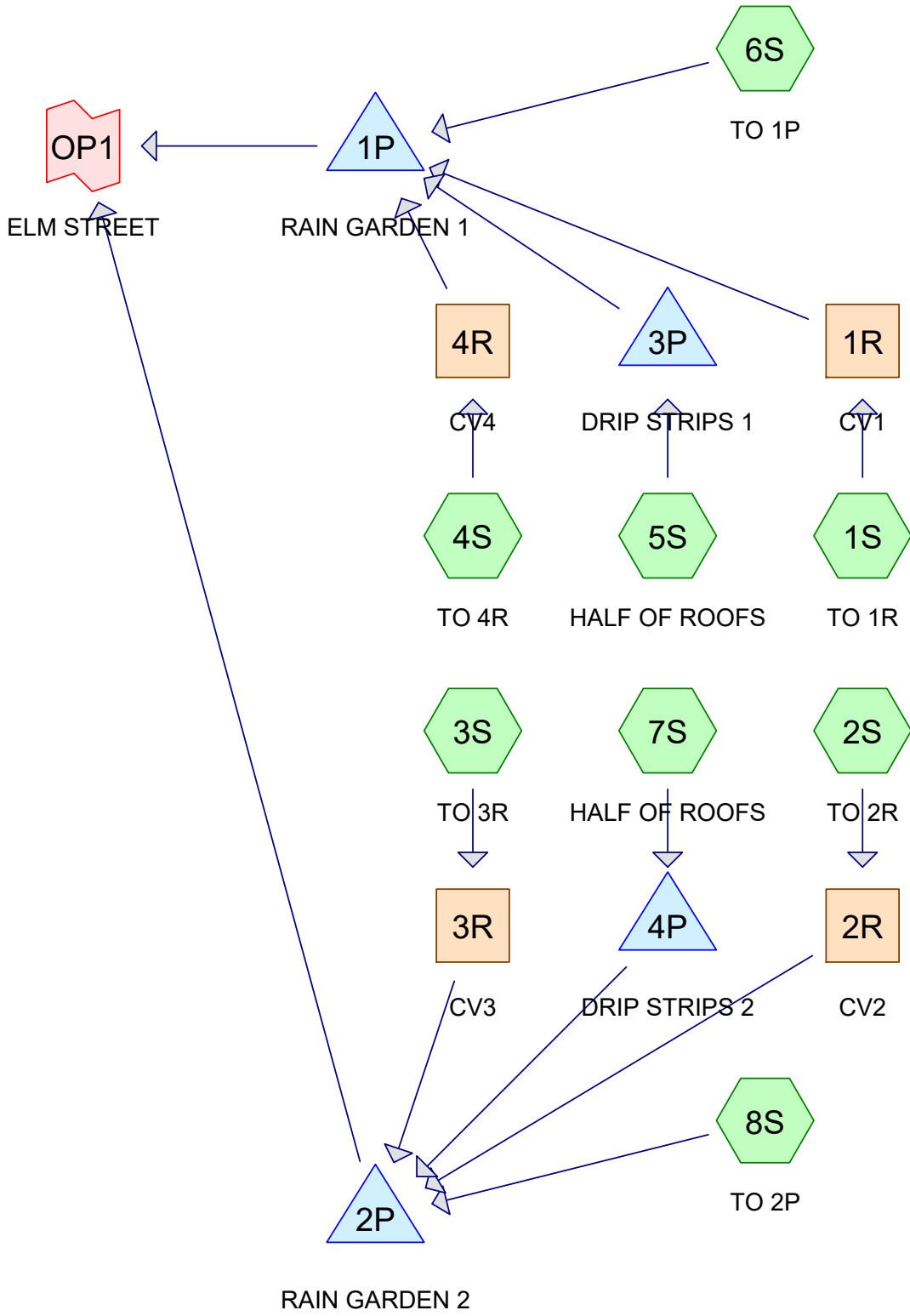
### Link OP1: ELM STREET

Hydrograph



## Section 2.1

Proposed Conditions  
2, 25, & 50 Year Storm Summary



**Routing Diagram for 4200.00\_POST\_DEV**  
 Prepared by Fieldstone Land Consultants, Printed 4/16/2026  
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**4200.00\_POST\_DEV**

Type III 24-hr 2 Year Storm Rainfall=2.76"

Prepared by Fieldstone Land Consultants

Printed 4/16/2026

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Page 2

Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

<b>Subcatchment 1S: TO 1R</b>	Runoff Area=3,596 sf 83.37% Impervious Runoff Depth=2.03" Tc=6.0 min CN=93 Runoff=0.19 cfs 0.014 af
<b>Subcatchment 2S: TO 2R</b>	Runoff Area=3,740 sf 83.56% Impervious Runoff Depth=2.22" Tc=6.0 min CN=95 Runoff=0.21 cfs 0.016 af
<b>Subcatchment 3S: TO 3R</b>	Runoff Area=3,485 sf 82.73% Impervious Runoff Depth=2.22" Tc=6.0 min CN=95 Runoff=0.20 cfs 0.015 af
<b>Subcatchment 4S: TO 4R</b>	Runoff Area=3,628 sf 83.85% Impervious Runoff Depth=2.22" Tc=6.0 min CN=95 Runoff=0.21 cfs 0.015 af
<b>Subcatchment 5S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=2.53" Tc=6.0 min CN=98 Runoff=0.14 cfs 0.011 af
<b>Subcatchment 6S: TO 1P</b>	Runoff Area=6,620 sf 0.48% Impervious Runoff Depth=0.47" Tc=6.0 min CN=67 Runoff=0.06 cfs 0.006 af
<b>Subcatchment 7S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=2.53" Tc=6.0 min CN=98 Runoff=0.14 cfs 0.011 af
<b>Subcatchment 8S: TO 2P</b>	Runoff Area=6,950 sf 0.46% Impervious Runoff Depth=0.71" Tc=6.0 min UI Adjusted CN=73 Runoff=0.12 cfs 0.009 af
<b>Reach 1R: CV1</b>	Avg. Flow Depth=0.21' Max Vel=1.42 fps Inflow=0.19 cfs 0.014 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.19 cfs 0.014 af
<b>Reach 2R: CV2</b>	Avg. Flow Depth=0.22' Max Vel=1.46 fps Inflow=0.21 cfs 0.016 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.21 cfs 0.016 af
<b>Reach 3R: CV3</b>	Avg. Flow Depth=0.27' Max Vel=0.89 fps Inflow=0.20 cfs 0.015 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.20 cfs 0.015 af
<b>Reach 4R: CV4</b>	Avg. Flow Depth=0.27' Max Vel=0.90 fps Inflow=0.21 cfs 0.015 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.20 cfs 0.015 af
<b>Pond 1P: RAIN GARDEN 1</b>	Peak Elev=495.84' Storage=410 cf Inflow=0.45 cfs 0.035 af Outflow=0.11 cfs 0.035 af
<b>Pond 2P: RAIN GARDEN 2</b>	Peak Elev=496.25' Storage=493 cf Inflow=0.53 cfs 0.040 af Outflow=0.13 cfs 0.039 af
<b>Pond 3P: DRIP STRIPS 1</b>	Peak Elev=496.38' Storage=87 cf Inflow=0.14 cfs 0.011 af Outflow=0.04 cfs 0.011 af
<b>Pond 4P: DRIP STRIPS 2</b>	Peak Elev=496.38' Storage=87 cf Inflow=0.14 cfs 0.011 af Outflow=0.04 cfs 0.011 af

**4200.00\_POST\_DEV**

*Type III 24-hr 2 Year Storm Rainfall=2.76"*

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Page 3

**Link OP1: ELM STREET**

Inflow=0.24 cfs 0.074 af  
Primary=0.24 cfs 0.074 af

**Total Runoff Area = 0.746 ac   Runoff Volume = 0.097 af   Average Runoff Depth = 1.56"**  
**48.96% Pervious = 0.365 ac   51.04% Impervious = 0.381 ac**

**4200.00\_POST\_DEV**

Type III 24-hr 25 year storm Rainfall=4.92"

Prepared by Fieldstone Land Consultants

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Page 4

Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

<b>Subcatchment 1S: TO 1R</b>	Runoff Area=3,596 sf 83.37% Impervious Runoff Depth=4.12" Tc=6.0 min CN=93 Runoff=0.38 cfs 0.028 af
<b>Subcatchment 2S: TO 2R</b>	Runoff Area=3,740 sf 83.56% Impervious Runoff Depth=4.34" Tc=6.0 min CN=95 Runoff=0.40 cfs 0.031 af
<b>Subcatchment 3S: TO 3R</b>	Runoff Area=3,485 sf 82.73% Impervious Runoff Depth=4.34" Tc=6.0 min CN=95 Runoff=0.37 cfs 0.029 af
<b>Subcatchment 4S: TO 4R</b>	Runoff Area=3,628 sf 83.85% Impervious Runoff Depth=4.34" Tc=6.0 min CN=95 Runoff=0.39 cfs 0.030 af
<b>Subcatchment 5S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=4.68" Tc=6.0 min CN=98 Runoff=0.25 cfs 0.020 af
<b>Subcatchment 6S: TO 1P</b>	Runoff Area=6,620 sf 0.48% Impervious Runoff Depth=1.75" Tc=6.0 min CN=67 Runoff=0.30 cfs 0.022 af
<b>Subcatchment 7S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=4.68" Tc=6.0 min CN=98 Runoff=0.25 cfs 0.020 af
<b>Subcatchment 8S: TO 2P</b>	Runoff Area=6,950 sf 0.46% Impervious Runoff Depth=2.22" Tc=6.0 min UI Adjusted CN=73 Runoff=0.41 cfs 0.029 af
<b>Reach 1R: CV1</b>	Avg. Flow Depth=0.27' Max Vel=1.68 fps Inflow=0.38 cfs 0.028 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.37 cfs 0.028 af
<b>Reach 2R: CV2</b>	Avg. Flow Depth=0.28' Max Vel=1.71 fps Inflow=0.40 cfs 0.031 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.40 cfs 0.031 af
<b>Reach 3R: CV3</b>	Avg. Flow Depth=0.34' Max Vel=1.04 fps Inflow=0.37 cfs 0.029 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.37 cfs 0.029 af
<b>Reach 4R: CV4</b>	Avg. Flow Depth=0.35' Max Vel=1.06 fps Inflow=0.39 cfs 0.030 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.39 cfs 0.030 af
<b>Pond 1P: RAIN GARDEN 1</b>	Peak Elev=497.52' Storage=1,100 cf Inflow=1.06 cfs 0.081 af Outflow=0.22 cfs 0.081 af
<b>Pond 2P: RAIN GARDEN 2</b>	Peak Elev=497.66' Storage=1,232 cf Inflow=1.18 cfs 0.089 af Outflow=0.25 cfs 0.088 af
<b>Pond 3P: DRIP STRIPS 1</b>	Peak Elev=496.96' Storage=222 cf Inflow=0.25 cfs 0.020 af Outflow=0.05 cfs 0.020 af
<b>Pond 4P: DRIP STRIPS 2</b>	Peak Elev=496.96' Storage=222 cf Inflow=0.25 cfs 0.020 af Outflow=0.05 cfs 0.020 af

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*Type III 24-hr 25 year storm Rainfall=4.92"*

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**Link OP1: ELM STREET**

Inflow=0.48 cfs 0.169 af  
Primary=0.48 cfs 0.169 af

**Total Runoff Area = 0.746 ac   Runoff Volume = 0.210 af   Average Runoff Depth = 3.38"**  
**48.96% Pervious = 0.365 ac   51.04% Impervious = 0.381 ac**

**4200.00\_POST\_DEV**

Type III 24-hr 50 Year Storm Rainfall=5.77"

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Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

<b>Subcatchment 1S: TO 1R</b>	Runoff Area=3,596 sf 83.37% Impervious Runoff Depth=4.96" Tc=6.0 min CN=93 Runoff=0.45 cfs 0.034 af
<b>Subcatchment 2S: TO 2R</b>	Runoff Area=3,740 sf 83.56% Impervious Runoff Depth=5.18" Tc=6.0 min CN=95 Runoff=0.47 cfs 0.037 af
<b>Subcatchment 3S: TO 3R</b>	Runoff Area=3,485 sf 82.73% Impervious Runoff Depth=5.18" Tc=6.0 min CN=95 Runoff=0.44 cfs 0.035 af
<b>Subcatchment 4S: TO 4R</b>	Runoff Area=3,628 sf 83.85% Impervious Runoff Depth=5.18" Tc=6.0 min CN=95 Runoff=0.46 cfs 0.036 af
<b>Subcatchment 5S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=5.53" Tc=6.0 min CN=98 Runoff=0.29 cfs 0.024 af
<b>Subcatchment 6S: TO 1P</b>	Runoff Area=6,620 sf 0.48% Impervious Runoff Depth=2.36" Tc=6.0 min CN=67 Runoff=0.41 cfs 0.030 af
<b>Subcatchment 7S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=5.53" Tc=6.0 min CN=98 Runoff=0.29 cfs 0.024 af
<b>Subcatchment 8S: TO 2P</b>	Runoff Area=6,950 sf 0.46% Impervious Runoff Depth=2.90" Tc=6.0 min UI Adjusted CN=73 Runoff=0.54 cfs 0.039 af
<b>Reach 1R: CV1</b>	Avg. Flow Depth=0.29' Max Vel=1.76 fps Inflow=0.45 cfs 0.034 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.44 cfs 0.034 af
<b>Reach 2R: CV2</b>	Avg. Flow Depth=0.30' Max Vel=1.79 fps Inflow=0.47 cfs 0.037 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.47 cfs 0.037 af
<b>Reach 3R: CV3</b>	Avg. Flow Depth=0.37' Max Vel=1.09 fps Inflow=0.44 cfs 0.035 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.44 cfs 0.035 af
<b>Reach 4R: CV4</b>	Avg. Flow Depth=0.37' Max Vel=1.10 fps Inflow=0.46 cfs 0.036 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.46 cfs 0.036 af
<b>Pond 1P: RAIN GARDEN 1</b>	Peak Elev=497.73' Storage=1,372 cf Inflow=1.31 cfs 0.100 af Outflow=0.39 cfs 0.100 af
<b>Pond 2P: RAIN GARDEN 2</b>	Peak Elev=497.76' Storage=1,356 cf Inflow=1.45 cfs 0.110 af Outflow=0.63 cfs 0.109 af
<b>Pond 3P: DRIP STRIPS 1</b>	Peak Elev=497.21' Storage=278 cf Inflow=0.29 cfs 0.024 af Outflow=0.06 cfs 0.024 af
<b>Pond 4P: DRIP STRIPS 2</b>	Peak Elev=497.21' Storage=278 cf Inflow=0.29 cfs 0.024 af Outflow=0.06 cfs 0.024 af

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*Type III 24-hr 50 Year Storm Rainfall=5.77"*

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**Link OP1: ELM STREET**

Inflow=0.90 cfs 0.209 af  
Primary=0.90 cfs 0.209 af

**Total Runoff Area = 0.746 ac   Runoff Volume = 0.257 af   Average Runoff Depth = 4.14"**  
**48.96% Pervious = 0.365 ac   51.04% Impervious = 0.381 ac**

## Section 2.2

### Proposed Conditions 10 Year Storm Full Summary

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**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
0.023	39	>75% Grass cover, Good, HSG A (8S)
0.118	61	>75% Grass cover, Good, HSG B (1S, 6S, 8S)
0.225	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S, 4S, 6S, 8S)
0.000	98	Paved parking, HSG B (6S)
0.064	98	Paved parking, HSG D (2S)
0.033	98	Roofs, HSG B (5S)
0.070	98	Roofs, HSG D (5S, 7S)
0.056	98	Unconnected pavement, HSG B (1S, 2S, 4S, 8S)
0.157	98	Unconnected pavement, HSG D (1S, 3S, 4S, 6S, 8S)
<b>0.746</b>	<b>85</b>	<b>TOTAL AREA</b>

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### Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.023	HSG A	8S
0.207	HSG B	1S, 2S, 4S, 5S, 6S, 8S
0.000	HSG C	
0.516	HSG D	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S
0.000	Other	
<b>0.746</b>		<b>TOTAL AREA</b>

**4200.00\_POST\_DEV**

Type III 24-hr 10 Year Storm Rainfall=3.98"

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Time span=0.00-35.00 hrs, dt=0.01 hrs, 3501 points x 3  
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

<b>Subcatchment 1S: TO 1R</b>	Runoff Area=3,596 sf 83.37% Impervious Runoff Depth=3.20" Tc=6.0 min CN=93 Runoff=0.30 cfs 0.022 af
<b>Subcatchment 2S: TO 2R</b>	Runoff Area=3,740 sf 83.56% Impervious Runoff Depth=3.41" Tc=6.0 min CN=95 Runoff=0.32 cfs 0.024 af
<b>Subcatchment 3S: TO 3R</b>	Runoff Area=3,485 sf 82.73% Impervious Runoff Depth=3.41" Tc=6.0 min CN=95 Runoff=0.30 cfs 0.023 af
<b>Subcatchment 4S: TO 4R</b>	Runoff Area=3,628 sf 83.85% Impervious Runoff Depth=3.41" Tc=6.0 min CN=95 Runoff=0.31 cfs 0.024 af
<b>Subcatchment 5S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=3.75" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af
<b>Subcatchment 6S: TO 1P</b>	Runoff Area=6,620 sf 0.48% Impervious Runoff Depth=1.13" Tc=6.0 min CN=67 Runoff=0.19 cfs 0.014 af
<b>Subcatchment 7S: HALF OF ROOFS</b>	Runoff Area=2,236 sf 100.00% Impervious Runoff Depth=3.75" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af
<b>Subcatchment 8S: TO 2P</b>	Runoff Area=6,950 sf 0.46% Impervious Runoff Depth=1.51" Tc=6.0 min UI Adjusted CN=73 Runoff=0.28 cfs 0.020 af
<b>Reach 1R: CV1</b>	Avg. Flow Depth=0.25' Max Vel=1.59 fps Inflow=0.30 cfs 0.022 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.29 cfs 0.022 af
<b>Reach 2R: CV2</b>	Avg. Flow Depth=0.26' Max Vel=1.62 fps Inflow=0.32 cfs 0.024 af n=0.030 L=62.0' S=0.0177 '/' Capacity=12.04 cfs Outflow=0.32 cfs 0.024 af
<b>Reach 3R: CV3</b>	Avg. Flow Depth=0.32' Max Vel=0.99 fps Inflow=0.30 cfs 0.023 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.29 cfs 0.023 af
<b>Reach 4R: CV4</b>	Avg. Flow Depth=0.32' Max Vel=1.00 fps Inflow=0.31 cfs 0.024 af n=0.030 L=60.0' S=0.0050 '/' Capacity=6.39 cfs Outflow=0.31 cfs 0.024 af
<b>Pond 1P: RAIN GARDEN 1</b>	Peak Elev=497.18' Storage=779 cf Inflow=0.79 cfs 0.060 af Outflow=0.19 cfs 0.060 af
<b>Pond 2P: RAIN GARDEN 2</b>	Peak Elev=497.32' Storage=875 cf Inflow=0.89 cfs 0.067 af Outflow=0.22 cfs 0.066 af
<b>Pond 3P: DRIP STRIPS 1</b>	Peak Elev=496.70' Storage=161 cf Inflow=0.20 cfs 0.016 af Outflow=0.05 cfs 0.016 af
<b>Pond 4P: DRIP STRIPS 2</b>	Peak Elev=496.70' Storage=161 cf Inflow=0.20 cfs 0.016 af Outflow=0.05 cfs 0.016 af

**4200.00\_POST\_DEV**

*Type III 24-hr 10 Year Storm Rainfall=3.98"*

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**Link OP1: ELM STREET**

Inflow=0.40 cfs 0.126 af  
Primary=0.40 cfs 0.126 af

**Total Runoff Area = 0.746 ac   Runoff Volume = 0.159 af   Average Runoff Depth = 2.56"**  
**48.96% Pervious = 0.365 ac   51.04% Impervious = 0.381 ac**

**Summary for Subcatchment 1S: TO 1R**

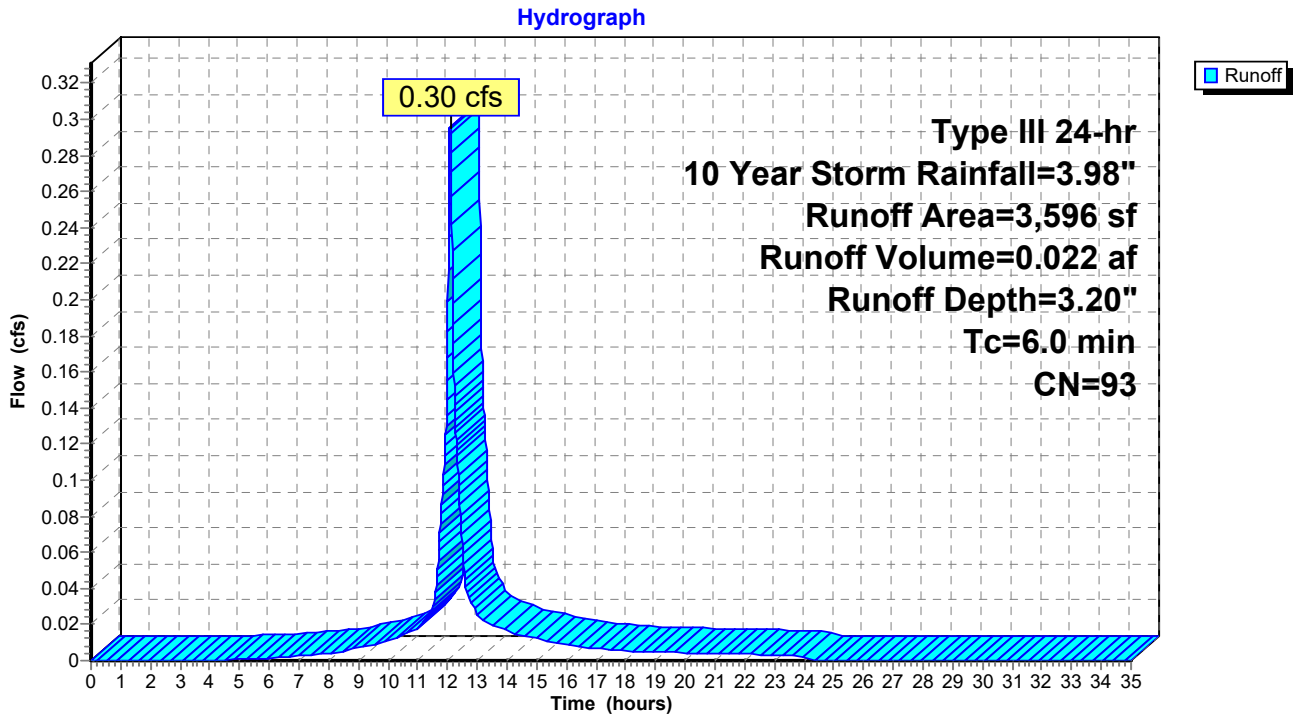
Runoff = 0.30 cfs @ 12.08 hrs, Volume= 0.022 af, Depth= 3.20"  
 Routed to Reach 1R : CV1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
233	80	>75% Grass cover, Good, HSG D
365	61	>75% Grass cover, Good, HSG B
909	98	Unconnected pavement, HSG D
2,089	98	Unconnected pavement, HSG B
3,596	93	Weighted Average
598		16.63% Pervious Area
2,998		83.37% Impervious Area
2,998		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 1S: TO 1R**



**Summary for Subcatchment 2S: TO 2R**

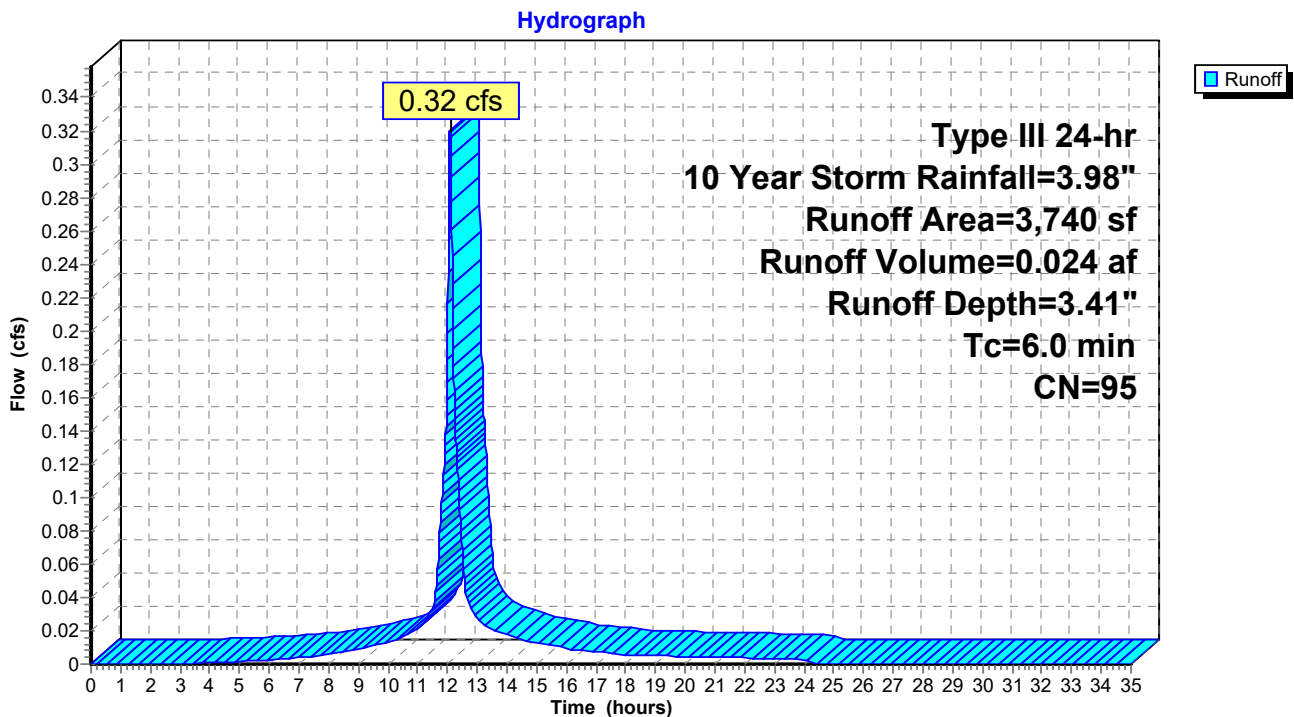
Runoff = 0.32 cfs @ 12.08 hrs, Volume= 0.024 af, Depth= 3.41"  
 Routed to Reach 2R : CV2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
322	98	Unconnected pavement, HSG B
615	80	>75% Grass cover, Good, HSG D
2,803	98	Paved parking, HSG D
3,740	95	Weighted Average
615		16.44% Pervious Area
3,125		83.56% Impervious Area
322		10.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 2S: TO 2R**



**Summary for Subcatchment 3S: TO 3R**

Runoff = 0.30 cfs @ 12.08 hrs, Volume= 0.023 af, Depth= 3.41"  
 Routed to Reach 3R : CV3

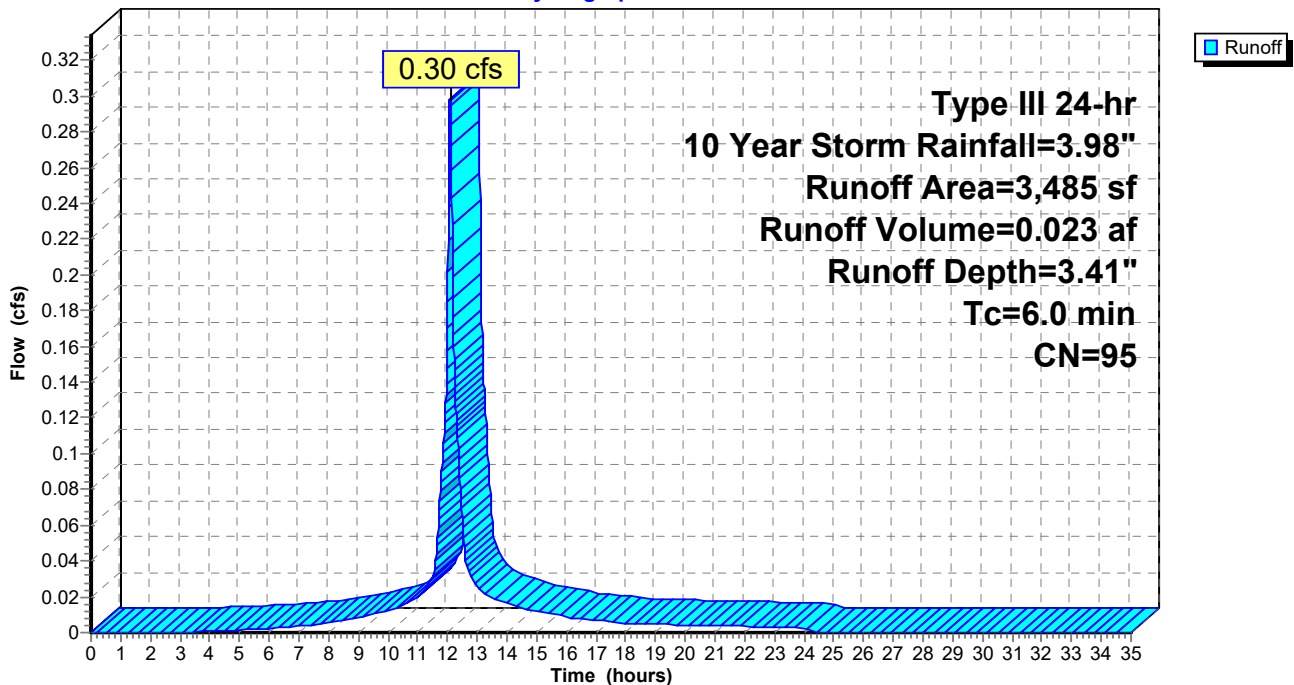
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
602	80	>75% Grass cover, Good, HSG D
2,883	98	Unconnected pavement, HSG D
3,485	95	Weighted Average
602		17.27% Pervious Area
2,883		82.73% Impervious Area
2,883		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 3S: TO 3R**

Hydrograph



**Summary for Subcatchment 4S: TO 4R**

Runoff = 0.31 cfs @ 12.08 hrs, Volume= 0.024 af, Depth= 3.41"  
 Routed to Reach 4R : CV4

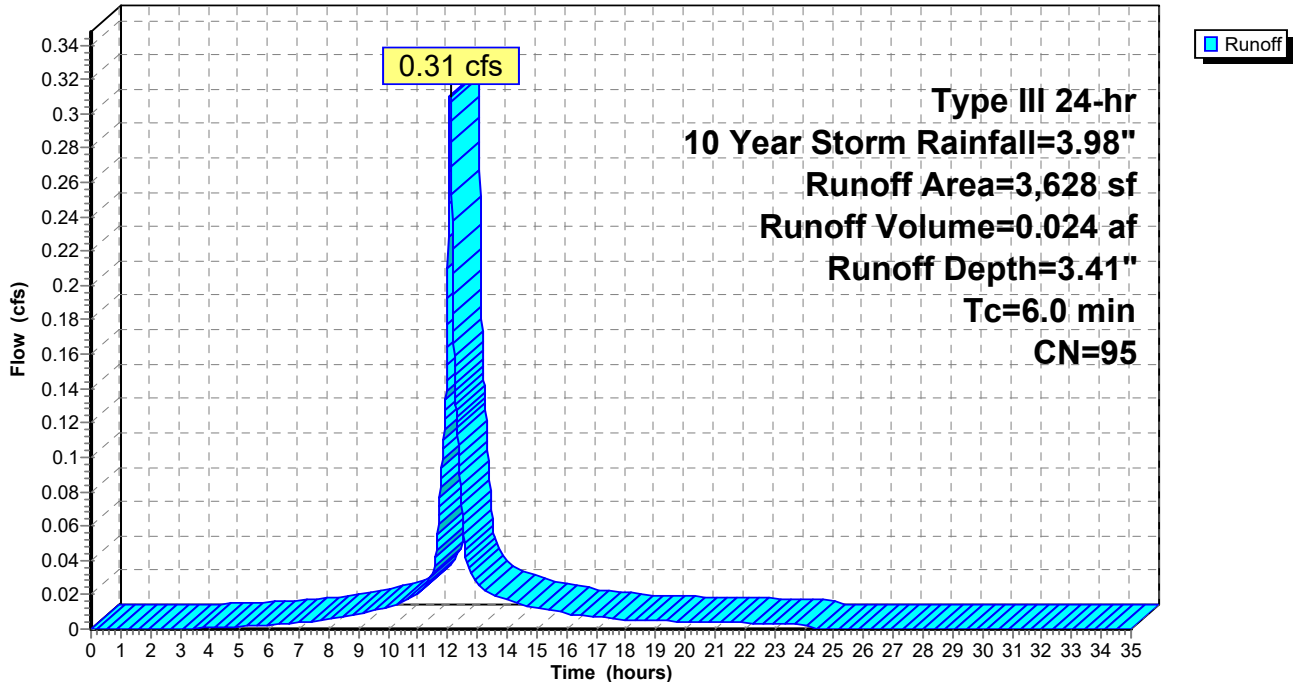
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
586	80	>75% Grass cover, Good, HSG D
3,022	98	Unconnected pavement, HSG D
20	98	Unconnected pavement, HSG B
3,628	95	Weighted Average
586		16.15% Pervious Area
3,042		83.85% Impervious Area
3,042		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 4S: TO 4R**

Hydrograph



**Summary for Subcatchment 5S: HALF OF ROOFS**

Runoff = 0.20 cfs @ 12.08 hrs, Volume= 0.016 af, Depth= 3.75"  
 Routed to Pond 3P : DRIP STRIPS 1

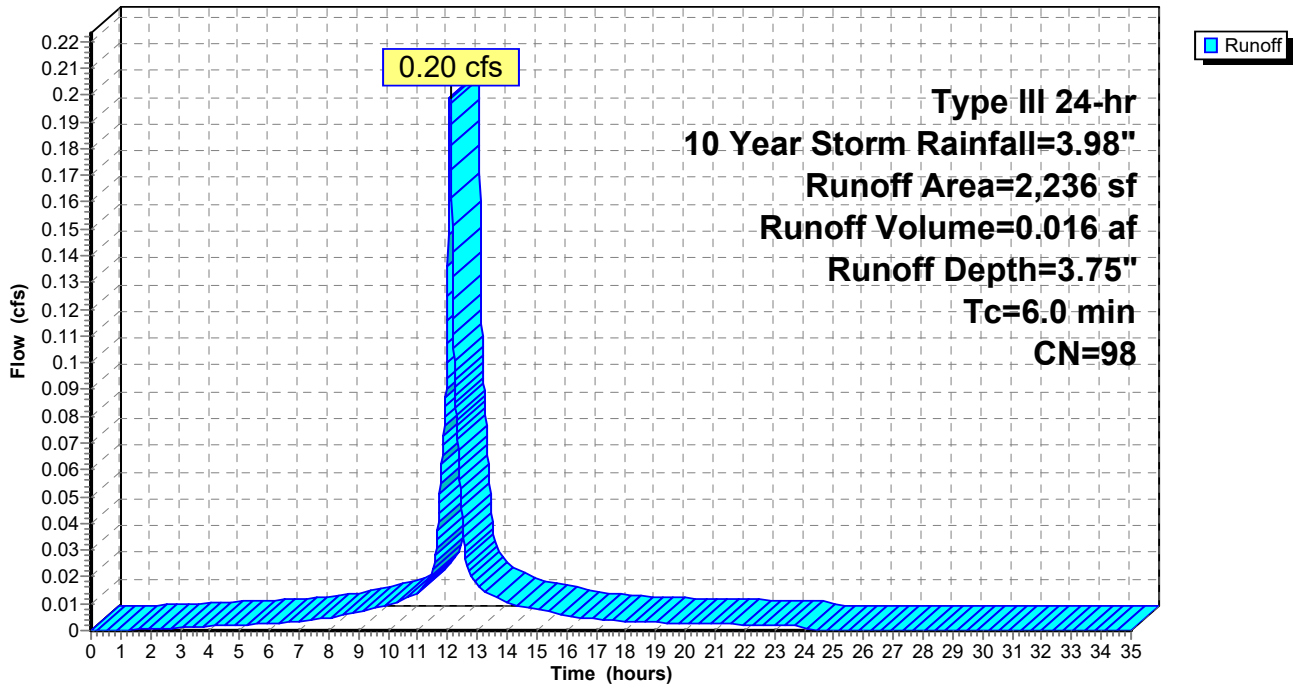
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
1,421	98	Roofs, HSG B
815	98	Roofs, HSG D
2,236	98	Weighted Average
2,236		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 5S: HALF OF ROOFS**

Hydrograph



**Summary for Subcatchment 6S: TO 1P**

Runoff = 0.19 cfs @ 12.10 hrs, Volume= 0.014 af, Depth= 1.13"  
 Routed to Pond 1P : RAIN GARDEN 1

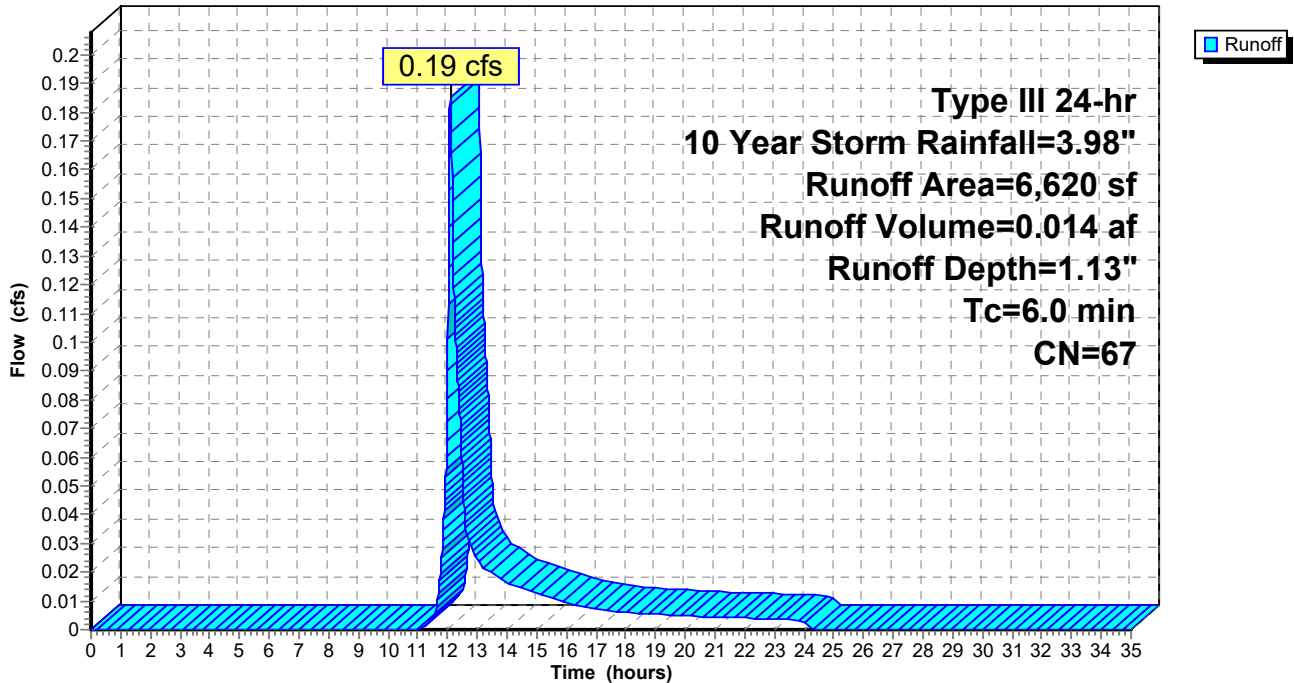
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
4,486	61	>75% Grass cover, Good, HSG B
16	98	Paved parking, HSG B
16	98	Unconnected pavement, HSG D
2,102	80	>75% Grass cover, Good, HSG D
6,620	67	Weighted Average
6,588		99.52% Pervious Area
32		0.48% Impervious Area
16		50.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 6S: TO 1P**

Hydrograph



**Summary for Subcatchment 7S: HALF OF ROOFS**

Runoff = 0.20 cfs @ 12.08 hrs, Volume= 0.016 af, Depth= 3.75"  
 Routed to Pond 4P : DRIP STRIPS 2

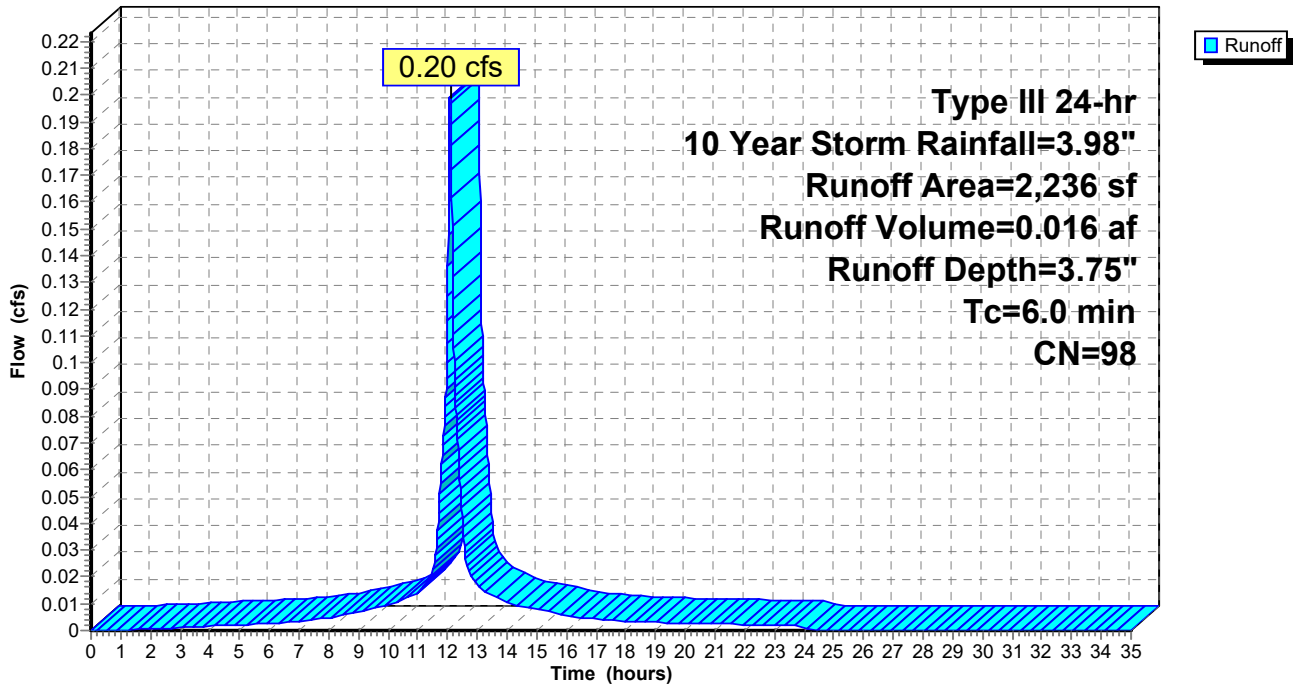
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Description
2,236	98	Roofs, HSG D
2,236		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 7S: HALF OF ROOFS**

Hydrograph



**Summary for Subcatchment 8S: TO 2P**

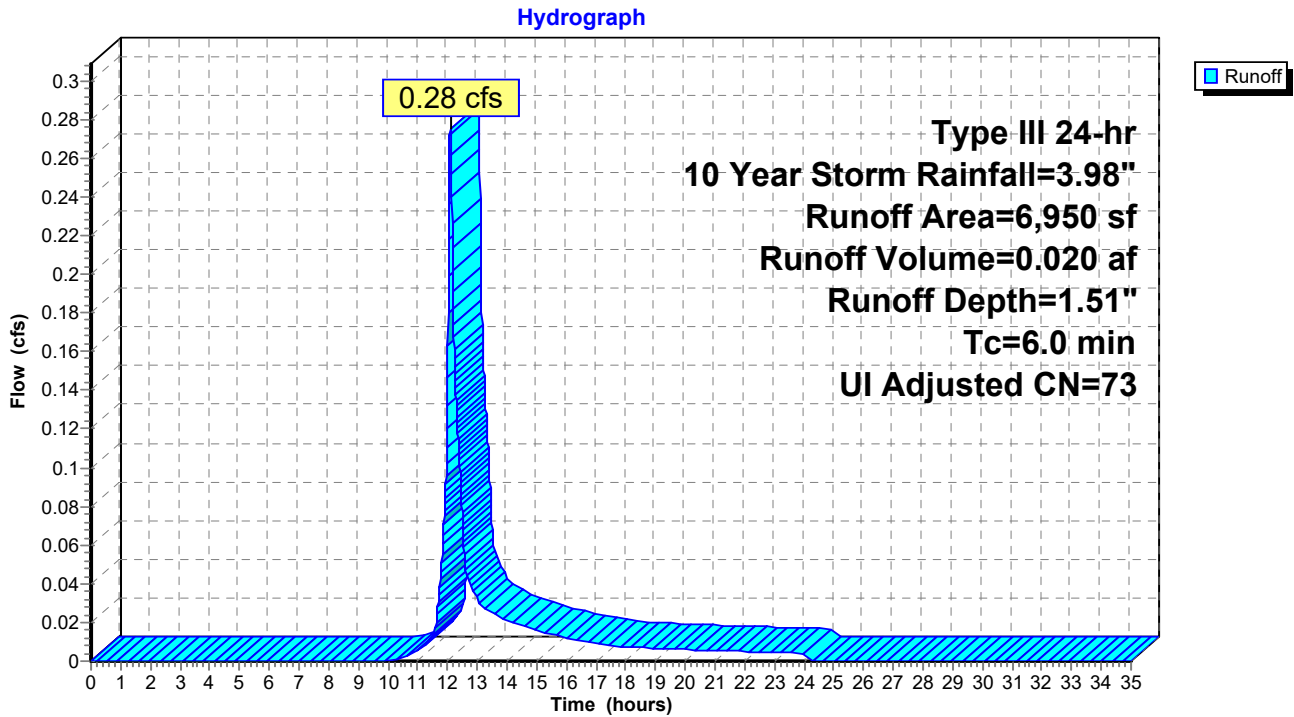
Runoff = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af, Depth= 1.51"  
 Routed to Pond 2P : RAIN GARDEN 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs  
 Type III 24-hr 10 Year Storm Rainfall=3.98"

Area (sf)	CN	Adj	Description
16	98		Unconnected pavement, HSG B
278	61		>75% Grass cover, Good, HSG B
981	39		>75% Grass cover, Good, HSG A
16	98		Unconnected pavement, HSG D
5,659	80		>75% Grass cover, Good, HSG D
6,950	74	73	Weighted Average, UI Adjusted
6,918			99.54% Pervious Area
32			0.46% Impervious Area
32			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

**Subcatchment 8S: TO 2P**



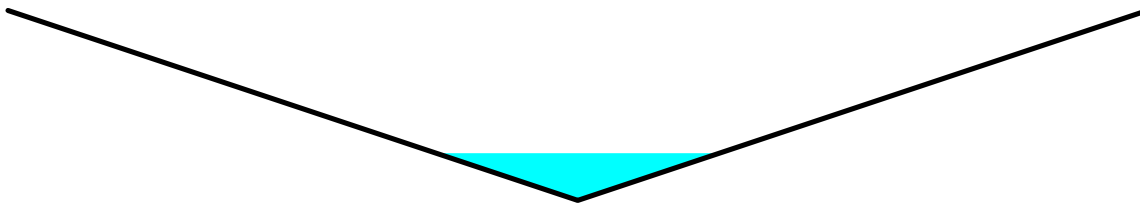
**Summary for Reach 1R: CV1**

Inflow Area = 0.083 ac, 83.37% Impervious, Inflow Depth = 3.20" for 10 Year Storm event  
 Inflow = 0.30 cfs @ 12.08 hrs, Volume= 0.022 af  
 Outflow = 0.29 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 1%, Lag= 0.5 min  
 Routed to Pond 1P : RAIN GARDEN 1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Max. Velocity= 1.59 fps, Min. Travel Time= 0.7 min  
 Avg. Velocity = 0.61 fps, Avg. Travel Time= 1.7 min

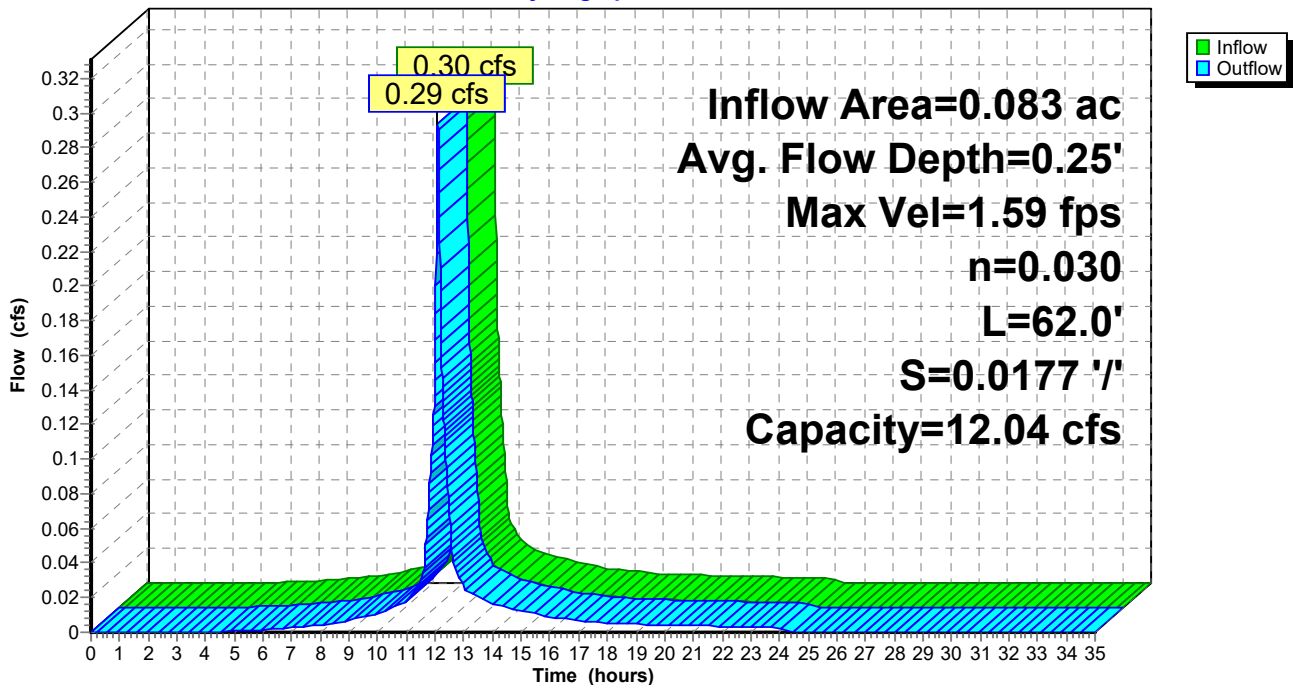
Peak Storage= 11 cf @ 12.09 hrs  
 Average Depth at Peak Storage= 0.25' , Surface Width= 1.49'  
 Bank-Full Depth= 1.00' Flow Area= 3.0 sf, Capacity= 12.04 cfs

0.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding  
 Side Slope Z-value= 3.0 '/' Top Width= 6.00'  
 Length= 62.0' Slope= 0.0177 '/'  
 Inlet Invert= 499.10', Outlet Invert= 498.00'



**Reach 1R: CV1**

Hydrograph



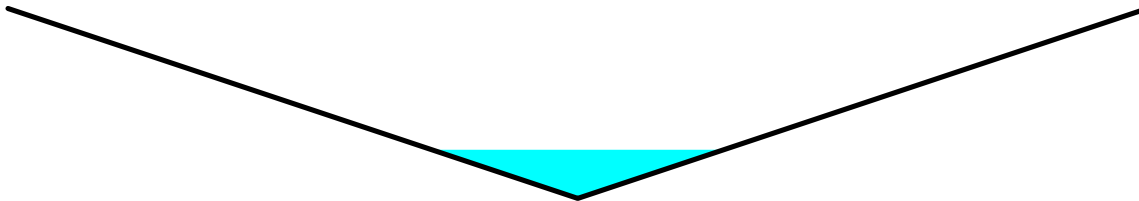
**Summary for Reach 2R: CV2**

Inflow Area = 0.086 ac, 83.56% Impervious, Inflow Depth = 3.41" for 10 Year Storm event  
 Inflow = 0.32 cfs @ 12.08 hrs, Volume= 0.024 af  
 Outflow = 0.32 cfs @ 12.09 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.5 min  
 Routed to Pond 2P : RAIN GARDEN 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Max. Velocity= 1.62 fps, Min. Travel Time= 0.6 min  
 Avg. Velocity = 0.62 fps, Avg. Travel Time= 1.7 min

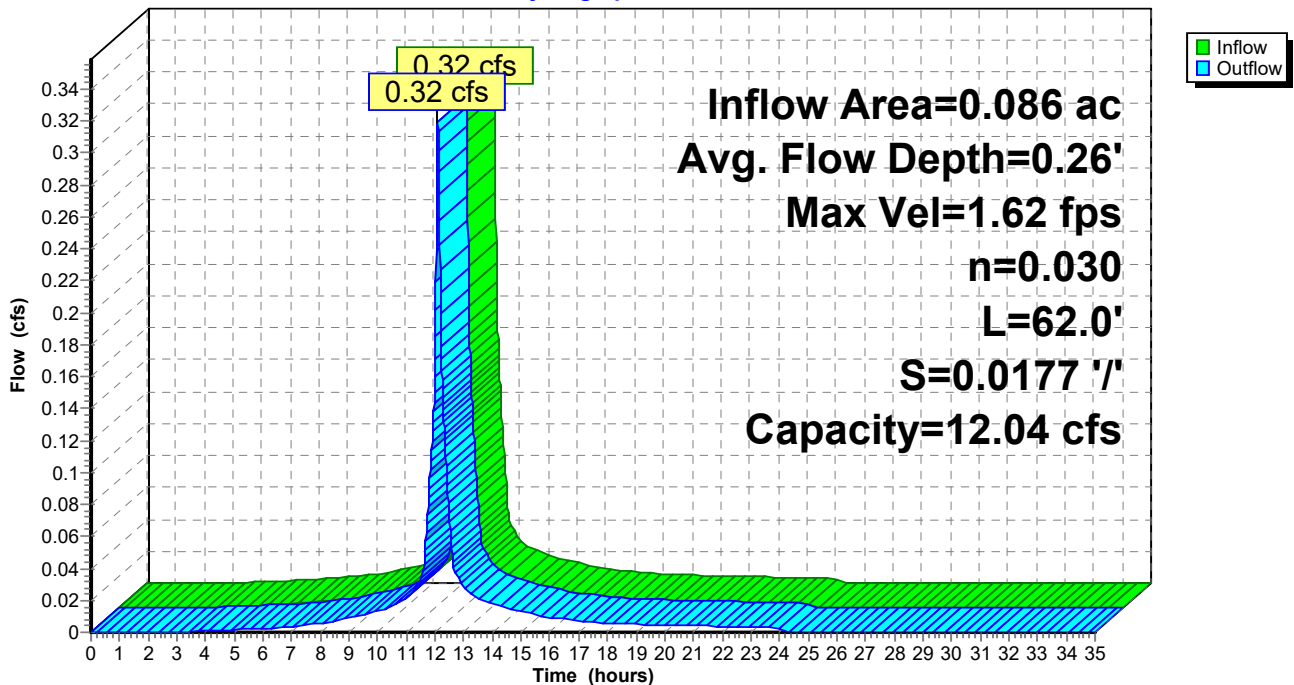
Peak Storage= 12 cf @ 12.09 hrs  
 Average Depth at Peak Storage= 0.26' , Surface Width= 1.54'  
 Bank-Full Depth= 1.00' Flow Area= 3.0 sf, Capacity= 12.04 cfs

0.00' x 1.00' deep channel, n= 0.030  
 Side Slope Z-value= 3.0 '/' Top Width= 6.00'  
 Length= 62.0' Slope= 0.0177 '/'  
 Inlet Invert= 499.10', Outlet Invert= 498.00'



**Reach 2R: CV2**

Hydrograph



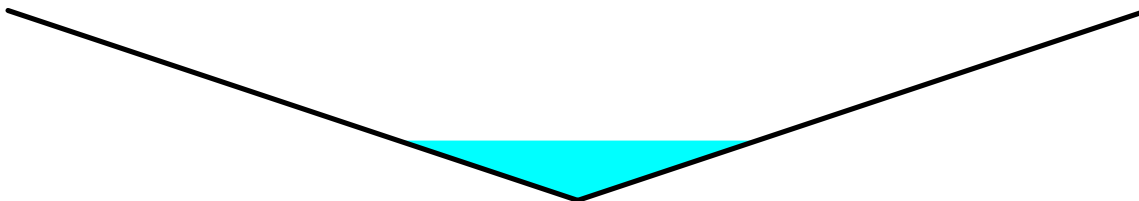
**Summary for Reach 3R: CV3**

Inflow Area = 0.080 ac, 82.73% Impervious, Inflow Depth = 3.41" for 10 Year Storm event  
 Inflow = 0.30 cfs @ 12.08 hrs, Volume= 0.023 af  
 Outflow = 0.29 cfs @ 12.10 hrs, Volume= 0.023 af, Atten= 1%, Lag= 0.8 min  
 Routed to Pond 2P : RAIN GARDEN 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Max. Velocity= 0.99 fps, Min. Travel Time= 1.0 min  
 Avg. Velocity = 0.38 fps, Avg. Travel Time= 2.6 min

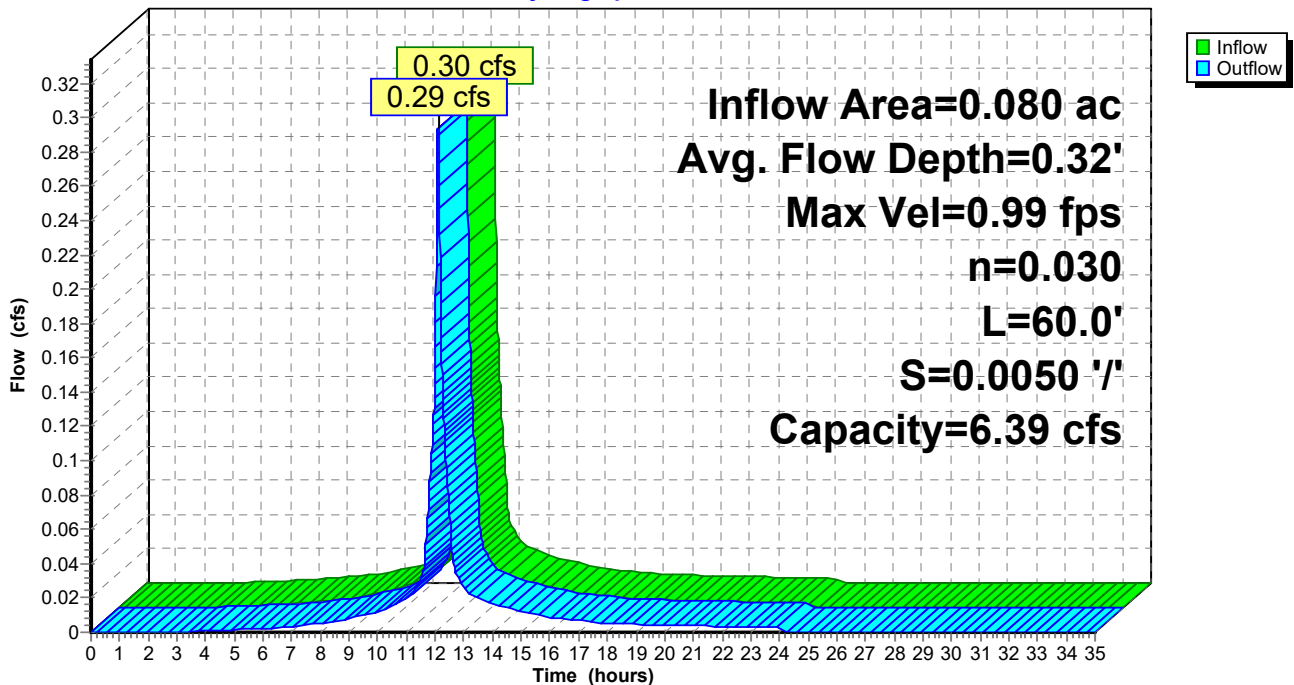
Peak Storage= 18 cf @ 12.10 hrs  
 Average Depth at Peak Storage= 0.32' , Surface Width= 1.89'  
 Bank-Full Depth= 1.00' Flow Area= 3.0 sf, Capacity= 6.39 cfs

0.00' x 1.00' deep channel, n= 0.030  
 Side Slope Z-value= 3.0 '/' Top Width= 6.00'  
 Length= 60.0' Slope= 0.0050 '/'  
 Inlet Invert= 498.30', Outlet Invert= 498.00'



**Reach 3R: CV3**

Hydrograph



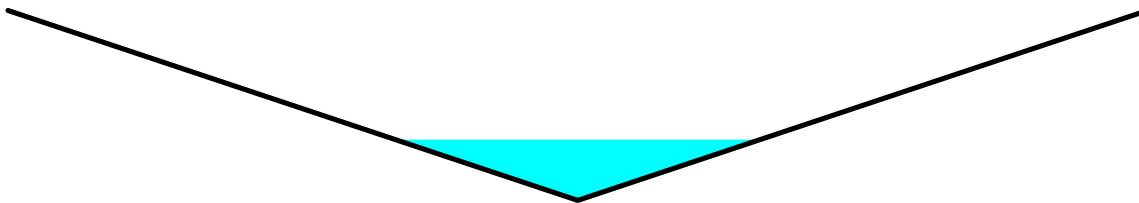
**Summary for Reach 4R: CV4**

Inflow Area = 0.083 ac, 83.85% Impervious, Inflow Depth = 3.41" for 10 Year Storm event  
 Inflow = 0.31 cfs @ 12.08 hrs, Volume= 0.024 af  
 Outflow = 0.31 cfs @ 12.10 hrs, Volume= 0.024 af, Atten= 1%, Lag= 0.8 min  
 Routed to Pond 1P : RAIN GARDEN 1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Max. Velocity= 1.00 fps, Min. Travel Time= 1.0 min  
 Avg. Velocity = 0.38 fps, Avg. Travel Time= 2.6 min

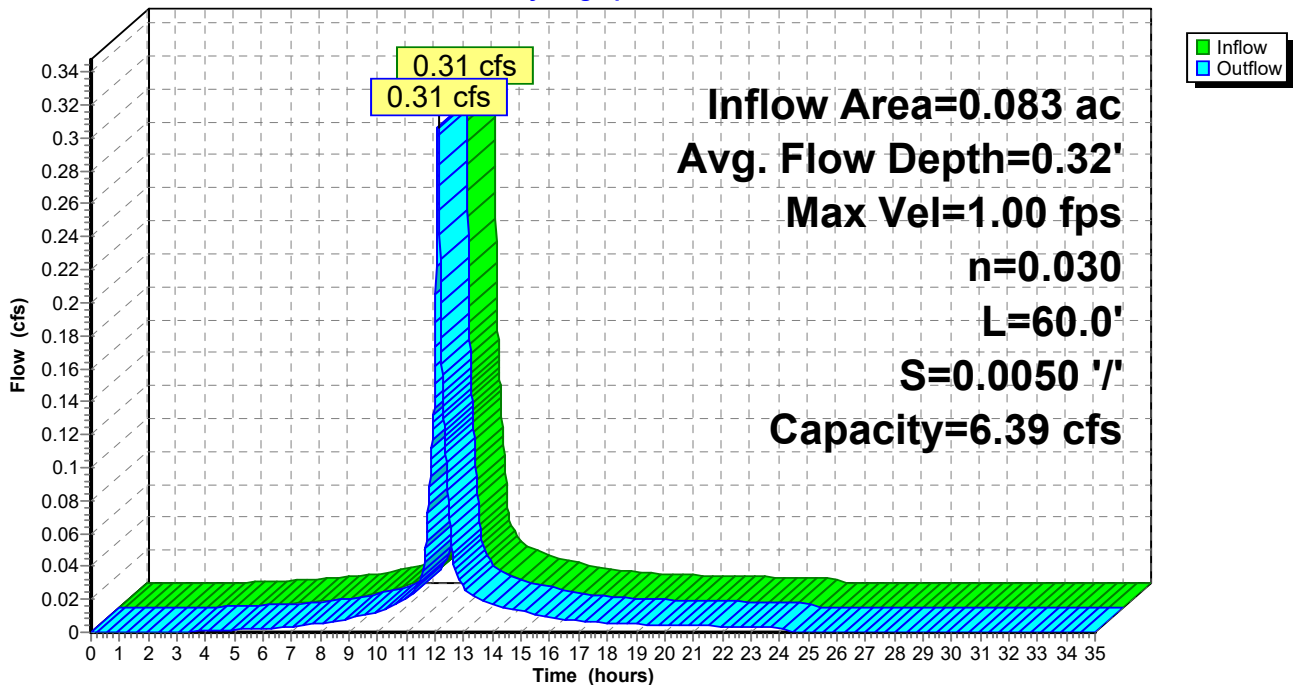
Peak Storage= 18 cf @ 12.10 hrs  
 Average Depth at Peak Storage= 0.32', Surface Width= 1.92'  
 Bank-Full Depth= 1.00' Flow Area= 3.0 sf, Capacity= 6.39 cfs

0.00' x 1.00' deep channel, n= 0.030  
 Side Slope Z-value= 3.0 '/' Top Width= 6.00'  
 Length= 60.0' Slope= 0.0050 '/'  
 Inlet Invert= 498.30', Outlet Invert= 498.00'



**Reach 4R: CV4**

Hydrograph



**Summary for Pond 1P: RAIN GARDEN 1**

Inflow Area = 0.369 ac, 51.67% Impervious, Inflow Depth = 1.95" for 10 Year Storm event  
 Inflow = 0.79 cfs @ 12.10 hrs, Volume= 0.060 af  
 Outflow = 0.19 cfs @ 12.51 hrs, Volume= 0.060 af, Atten= 76%, Lag= 24.8 min  
 Primary = 0.19 cfs @ 12.51 hrs, Volume= 0.060 af  
 Routed to Link OP1 : ELM STREET

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Peak Elev= 497.18' @ 12.51 hrs Surf.Area= 1,844 sf Storage= 779 cf  
 Flood Elev= 498.00' Surf.Area= 2,800 sf Storage= 1,790 cf

Plug-Flow detention time= 46.0 min calculated for 0.060 af (100% of inflow)  
 Center-of-Mass det. time= 46.0 min ( 848.5 - 802.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	497.00'	1,128 cf	<b>Basin (Prismatic)</b> Listed below (Recalc)
#2	494.25'	600 cf	<b>Sand (Prismatic)</b> Listed below (Recalc) 1,499 cf Overall x 40.0% Voids
#3	493.75'	63 cf	<b>Stone (Prismatic)</b> Listed below (Recalc) 156 cf Overall x 40.0% Voids
		1,790 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
497.00	545	0	0
498.00	1,710	1,128	1,128

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
494.25	545	0	0
497.00	545	1,499	1,499

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
493.75	80	0	0
494.25	545	156	156

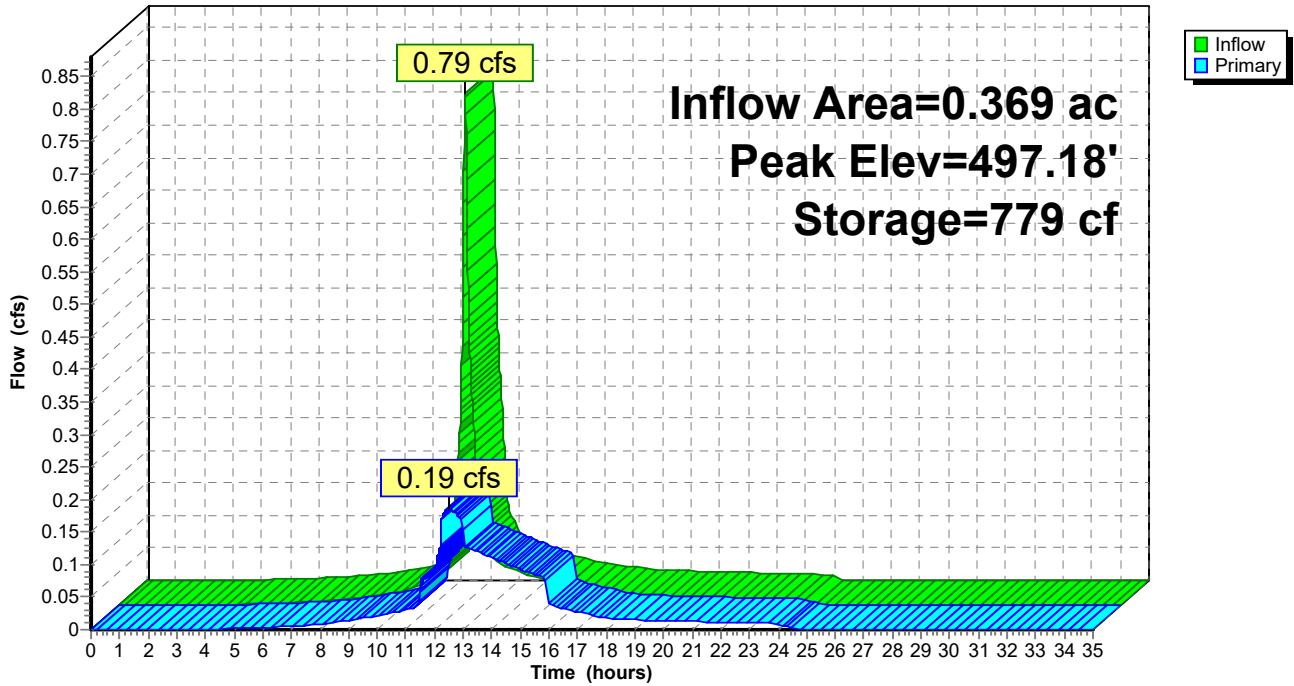
Device	Routing	Invert	Outlet Devices
#1	Device 2	493.75'	<b>3.000 in/hr Exfiltration over Surface area</b> Conductivity to Groundwater Elevation = 490.00' Phase-In= 0.10'
#2	Device 3	493.75'	<b>6.0" Round UD</b> L= 135.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 493.75' / 493.75' S= 0.0000 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.20 sf
#3	Primary	493.75'	<b>12.0" Round Culvert</b> L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 493.75' / 493.50' S= 0.0125 '/ Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#4	Primary	497.70'	<b>24.0" x 24.0" Horiz. Grate</b> C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.19 cfs @ 12.51 hrs HW=497.18' TW=0.00' (Dynamic Tailwater)

- 3=Culvert (Passes 0.19 cfs of 5.11 cfs potential flow)
- 2=UD (Passes 0.19 cfs of 0.52 cfs potential flow)
- 1=Exfiltration ( Controls 0.19 cfs)
- 4=Grate ( Controls 0.00 cfs)

### Pond 1P: RAIN GARDEN 1

Hydrograph



**Summary for Pond 2P: RAIN GARDEN 2**

Inflow Area = 0.377 ac, 50.43% Impervious, Inflow Depth = 2.14" for 10 Year Storm event  
 Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.067 af  
 Outflow = 0.22 cfs @ 12.50 hrs, Volume= 0.066 af, Atten= 76%, Lag= 24.1 min  
 Primary = 0.22 cfs @ 12.50 hrs, Volume= 0.066 af  
 Routed to Link OP1 : ELM STREET

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Peak Elev= 497.32' @ 12.50 hrs Surf.Area= 1,936 sf Storage= 875 cf  
 Flood Elev= 498.00' Surf.Area= 2,800 sf Storage= 1,729 cf

Plug-Flow detention time= 55.6 min calculated for 0.066 af (98% of inflow)  
 Center-of-Mass det. time= 46.0 min ( 844.7 - 798.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	497.00'	1,073 cf	<b>Basin (Conic)</b> Listed below (Recalc)
#2	494.25'	600 cf	<b>Sand (Conic)</b> Listed below (Recalc) 1,499 cf Overall x 40.0% Voids
#3	493.75'	56 cf	<b>Stone (Conic)</b> Listed below (Recalc) 139 cf Overall x 40.0% Voids
		1,729 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
497.00	545	0	0	545
498.00	1,710	1,073	1,073	1,716

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
494.25	545	0	0	545
497.00	545	1,499	1,499	773

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
493.75	80	0	0	80
494.25	545	139	139	546

Device	Routing	Invert	Outlet Devices
#1	Device 2	493.75'	<b>3.000 in/hr Exfiltration over Wetted area</b> Conductivity to Groundwater Elevation = 490.00' Phase-In= 0.10'
#2	Device 3	493.75'	<b>6.0" Round UD</b> L= 135.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 493.75' / 493.75' S= 0.0000 ' / Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.20 sf
#3	Primary	494.20'	<b>12.0" Round Culvert</b> L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 494.20' / 493.90' S= 0.0107 ' / Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf
#4	Primary	497.70'	<b>24.0" x 24.0" Horiz. Grate</b> C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.22 cfs @ 12.50 hrs HW=497.32' TW=0.00' (Dynamic Tailwater)

3=Culvert (Passes 0.22 cfs of 4.83 cfs potential flow)

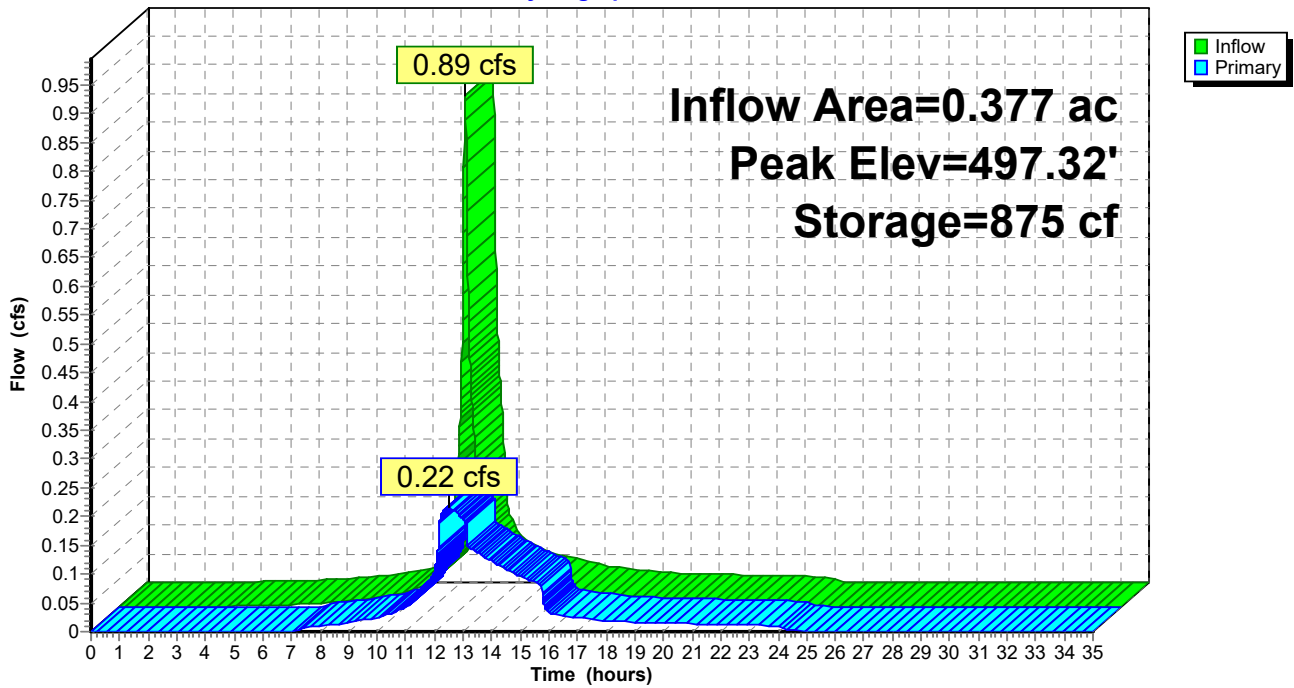
2=UD (Passes 0.22 cfs of 0.53 cfs potential flow)

1=Exfiltration ( Controls 0.22 cfs)

4=Grate ( Controls 0.00 cfs)

### Pond 2P: RAIN GARDEN 2

Hydrograph



**Summary for Pond 3P: DRIP STRIPS 1**

Inflow Area = 0.051 ac, 100.00% Impervious, Inflow Depth = 3.75" for 10 Year Storm event  
 Inflow = 0.20 cfs @ 12.08 hrs, Volume= 0.016 af  
 Outflow = 0.05 cfs @ 12.46 hrs, Volume= 0.016 af, Atten= 75%, Lag= 22.4 min  
 Discarded = 0.05 cfs @ 12.46 hrs, Volume= 0.016 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Peak Elev= 496.70' @ 12.46 hrs Surf.Area= 575 sf Storage= 161 cf  
 Flood Elev= 500.00' Surf.Area= 575 sf Storage= 920 cf

Plug-Flow detention time= 22.3 min calculated for 0.016 af (100% of inflow)  
 Center-of-Mass det. time= 22.3 min ( 774.3 - 752.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	496.00'	920 cf	<b>Stone (Conic)</b> Listed below (Recalc) 2,300 cf Overall x 40.0% Voids

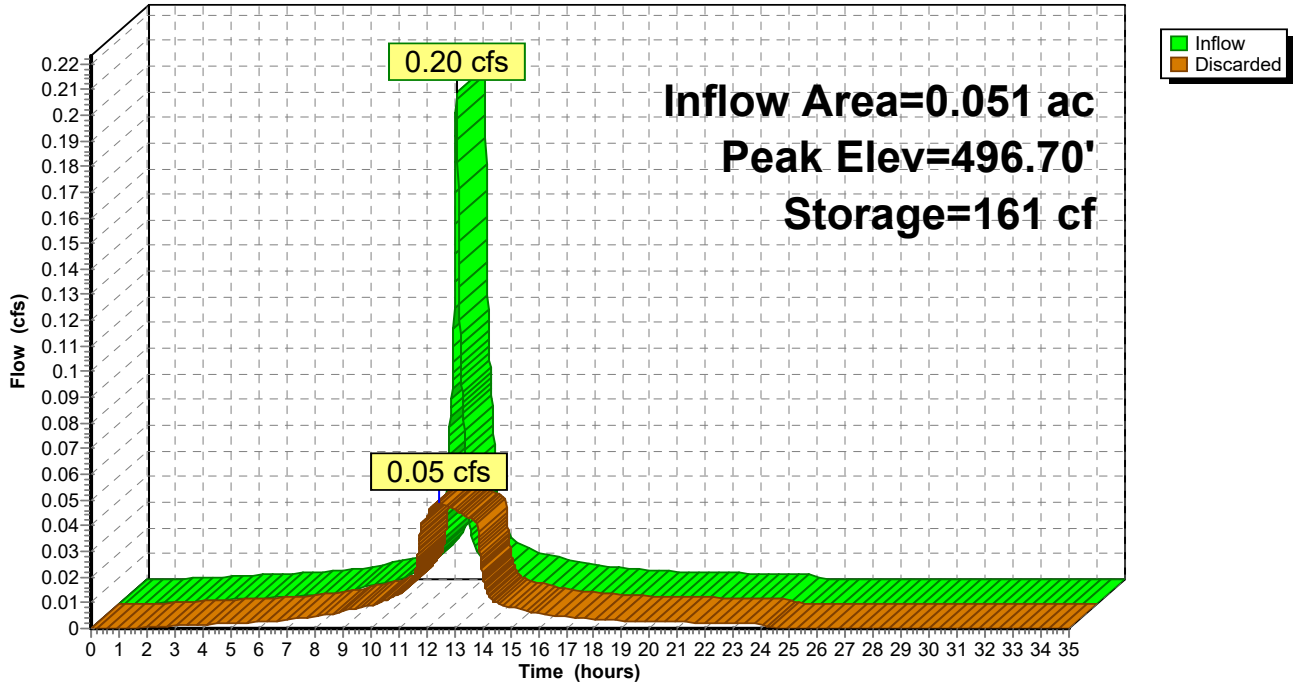
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
496.00	575	0	0	575
500.00	575	2,300	2,300	915

Device	Routing	Invert	Outlet Devices
#1	Discarded	496.00'	<b>3.000 in/hr Exfiltration over Wetted area</b> Conductivity to Groundwater Elevation = 490.00' Phase-In= 0.10'

**Discarded OutFlow** Max=0.05 cfs @ 12.46 hrs HW=496.70' (Free Discharge)  
 ↑1=Exfiltration ( Controls 0.05 cfs)

### Pond 3P: DRIP STRIPS 1

Hydrograph



**Summary for Pond 4P: DRIP STRIPS 2**

Inflow Area = 0.051 ac, 100.00% Impervious, Inflow Depth = 3.75" for 10 Year Storm event  
 Inflow = 0.20 cfs @ 12.08 hrs, Volume= 0.016 af  
 Outflow = 0.05 cfs @ 12.46 hrs, Volume= 0.016 af, Atten= 75%, Lag= 22.4 min  
 Discarded = 0.05 cfs @ 12.46 hrs, Volume= 0.016 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs / 3  
 Peak Elev= 496.70' @ 12.46 hrs Surf.Area= 575 sf Storage= 161 cf  
 Flood Elev= 500.00' Surf.Area= 575 sf Storage= 920 cf

Plug-Flow detention time= 22.3 min calculated for 0.016 af (100% of inflow)  
 Center-of-Mass det. time= 22.3 min ( 774.3 - 752.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	496.00'	920 cf	<b>Stone (Conic)</b> Listed below (Recalc) 2,300 cf Overall x 40.0% Voids

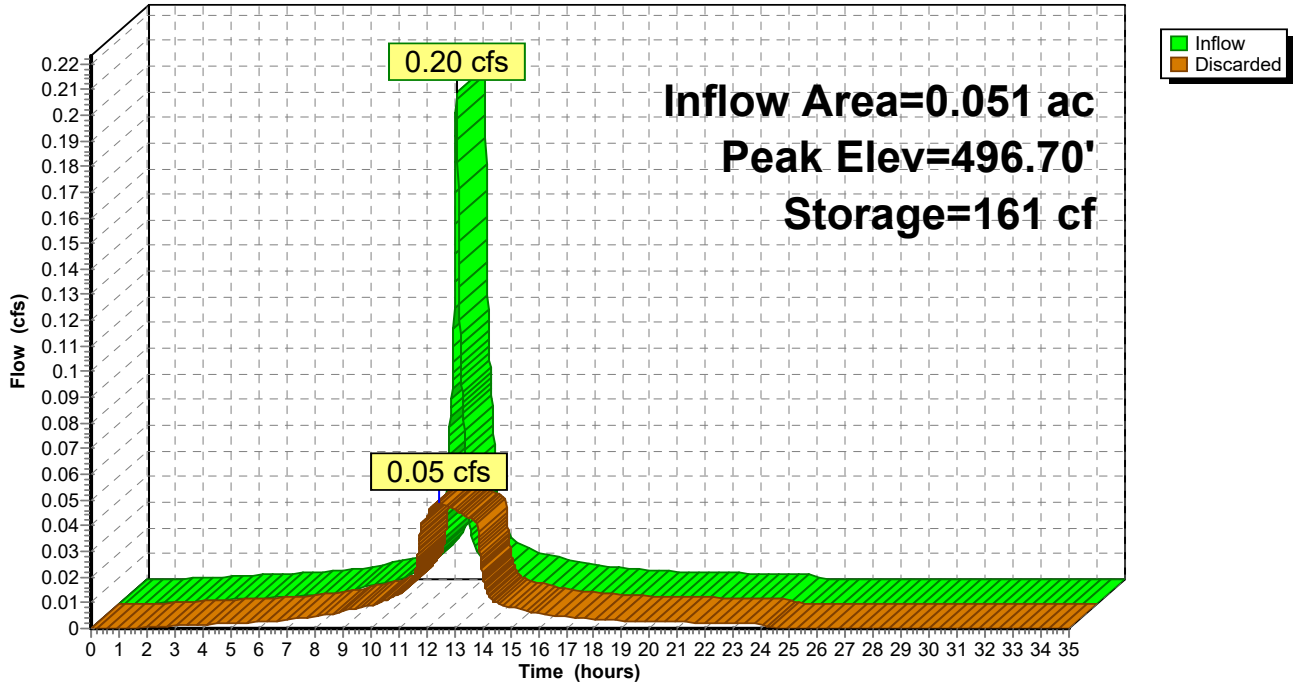
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
496.00	575	0	0	575
500.00	575	2,300	2,300	915

Device	Routing	Invert	Outlet Devices
#1	Discarded	496.00'	<b>3.000 in/hr Exfiltration over Wetted area</b> Conductivity to Groundwater Elevation = 490.00' Phase-In= 0.10'

**Discarded OutFlow** Max=0.05 cfs @ 12.46 hrs HW=496.70' (Free Discharge)  
 ↑1=Exfiltration ( Controls 0.05 cfs)

### Pond 4P: DRIP STRIPS 2

Hydrograph



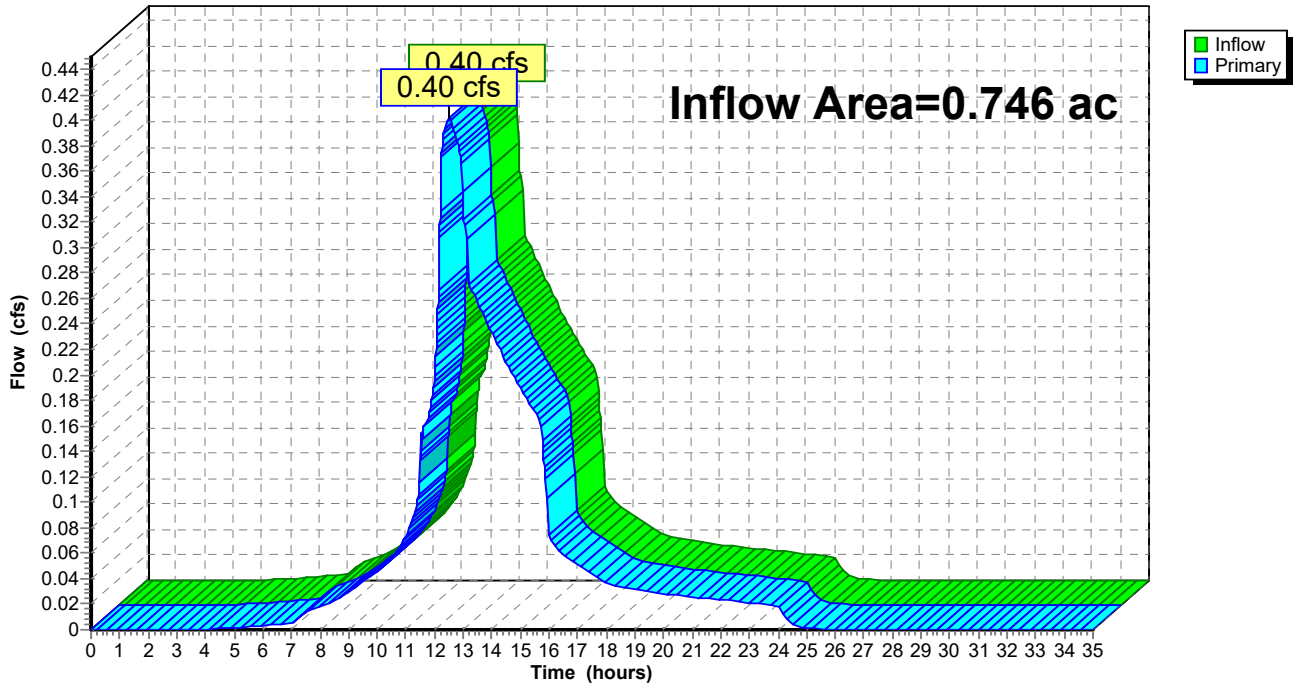
### Summary for Link OP1: ELM STREET

Inflow Area = 0.746 ac, 51.04% Impervious, Inflow Depth = 2.03" for 10 Year Storm event  
Inflow = 0.40 cfs @ 12.50 hrs, Volume= 0.126 af  
Primary = 0.40 cfs @ 12.50 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-35.00 hrs, dt= 0.01 hrs

### Link OP1: ELM STREET

Hydrograph



## Section 3.1

### Inspection & Maintenance Manual

# Elm City Commons

## Main Street - Keene, New Hampshire

### Storm Water Management System

### Inspection and Maintenance Manual

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#### **Introduction**

The operation and maintenance of a storm water management system and its individual components is as critical to system performance as the design. Without proper maintenance, best management practices (BMPs) are likely to become functionally impaired or to fail, providing reduced or no treatment of storm water. Proper operation and maintenance will ensure that the storm water system and individual BMPs will remain effective at removing pollutants as designed and meeting New Hampshire's water quality objectives. Proper maintenance will:

- Maintain the volume of storm water treated over the long term;
- Sustain the pollutant removal efficiency of the BMP;
- Reduce the risk of re-suspending sediment and other pollutants captured by the BMP;
- Prevent structural deterioration of the BMP and minimize the need for expensive repairs;
- Decrease the potential for failure of the BMP.

#### **Responsible Maintenance Party:**

Applicant: Christopher Masiello  
118 Portsmouth Ave, Building D, Suite 204  
Stratham, NH 03885

#### **Report Information:**

- Christopher Masiello will be the entity responsible for implementing the required reporting, inspection, and maintenance activities identified in the I & M manual.
- Inspection and maintenance reports shall be completed after each inspection. Copies of the report forms to be completed by the inspector are attached at the end of this manual, including:
  - Inspection checklist to be used during each inspection;
  - Inspection and maintenance logs to document each inspection and maintenance activity;

---

## **Maintenance Recommendations for Best Management Practices:**

**The following recommendations are to be used as a guide for the inspection and maintenance of the permanent erosion and sediment control measures.**

**We recommend that inspections be performed every couple of weeks and after larger storm events within the first year following construction to ensure that the site remains stabilized (site and slopes).**

### **Rain Gardens**

- Basin should be inspected at least twice annually, and following any rainfall event exceeding 2.5 inches in a 24 hour period, with maintenance or rehabilitation conducted as warranted by such inspection.
- Inspect, repair and remove debris from headwalls, end sections and riprap aprons at pipe outlets.
- Remove accumulated debris such as leaves, sticks, or trash from top stone layer and clean out grates. Open the clean out grates and verify that the underlying pipe is clear of sediment. If sediment is visible, flush each pipe with water until sediment is removed. Remove sediment at the outlet pipe, prior to the grass treatment swale.
- Dispose of sediments and other wastes in conformance with applicable local, state and federal regulations.
- If an infiltration system does not drain within 72-hours following a rainfall event, then a qualified professional should assess the condition of the facility to determine measures required to restore infiltration function, including but not limited to removal of accumulated sediments or reconstruction of the infiltration basin.

### **Treatment Swales**

- Inspect the grass treatment swales for erosion, debris, and woody vegetation. Remove debris and cut woody vegetation. Repair any eroded areas with loam and seed immediately.
- Verify that no invasive species are growing, and mitigate according to state regulations.
- The grass swales should be mowed periodically to maintain 3-inches of grass height.

### **Drainage Catch Basins**

- Inspect basins at least semi-annually.
- Vacuum the sediment basins when the sediment reaches one-half the depth from the bottom of the catch basin to the invert of the outlet pipe.
- Repair damaged basin grates immediately after the inspection.
- Repair pavement damage around the basins immediately after the inspection to prevent further damage to the structure or paved area.

- 
- Dispose of sediments and other wastes in conformance with applicable local, state and federal regulations.

### **Outlet Protection - Riprap Aprons**

- Inspect the outlet protection annually for damage and deterioration. Repair damages immediately.
- Remove debris from apron area.

### **Inspection Checklist /Maintenance Logs**

The inspection checklist and maintenance logs following this report shall be used as a guide for the inspection reporting for this project.

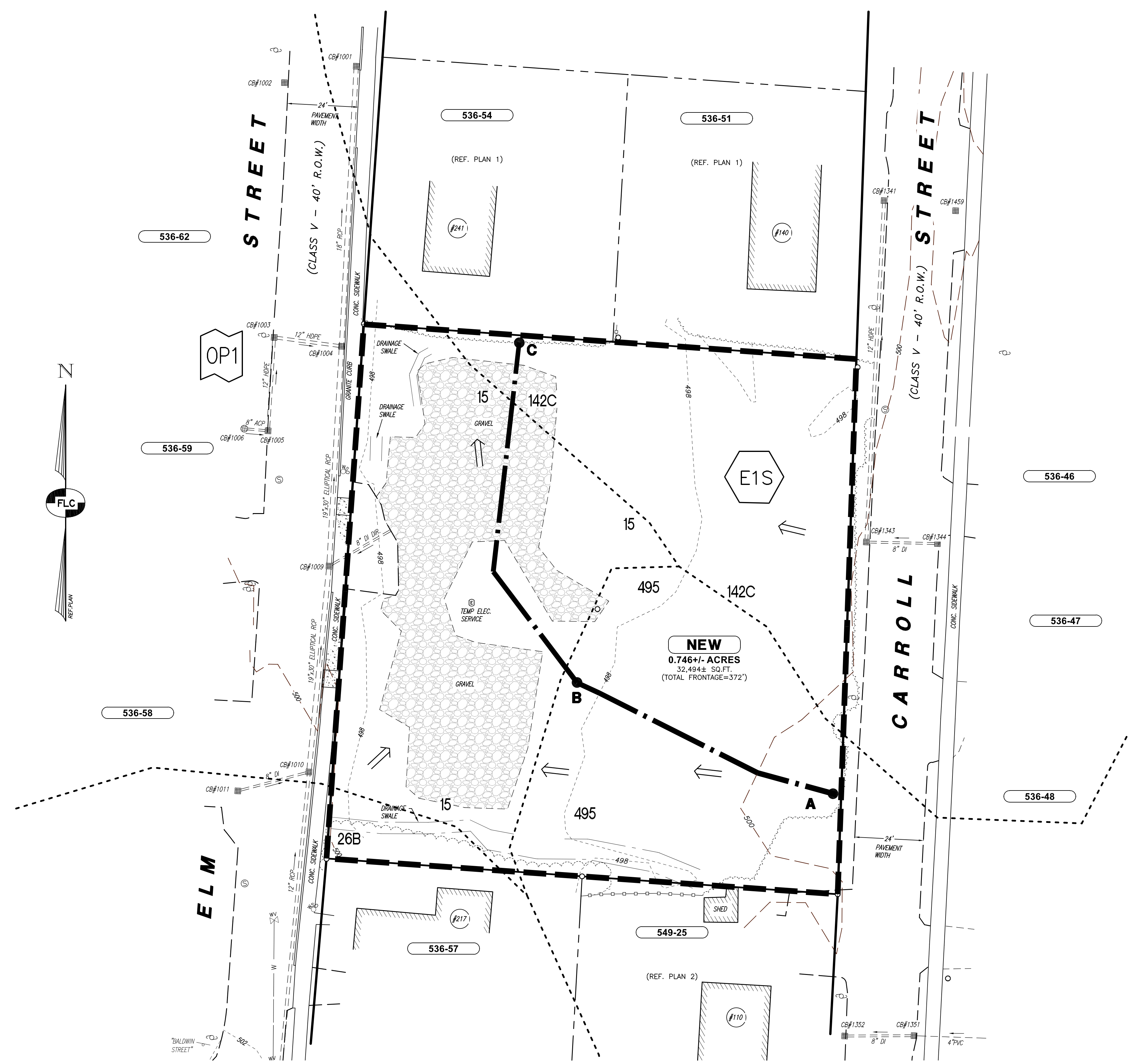
## Inspection Checklist

- Rain Gardens
  
- Treatment Swales
  
- Outlet Protections
  
- Outlet Protection/Riprap Aprons

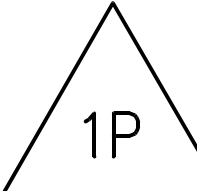
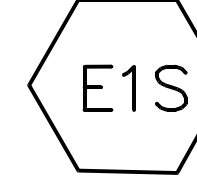
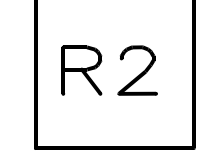
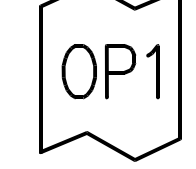
Inspection and Maintenance Log					
	BMP	Inspection Date	Inspected By	Maintenance Required?	Maintenance Performed
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2				<input type="checkbox"/> Yes <input type="checkbox"/> No	
3				<input type="checkbox"/> Yes <input type="checkbox"/> No	
4				<input type="checkbox"/> Yes <input type="checkbox"/> No	
5				<input type="checkbox"/> Yes <input type="checkbox"/> No	
6				<input type="checkbox"/> Yes <input type="checkbox"/> No	
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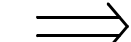
Section 3.2

Drainage Area Plans




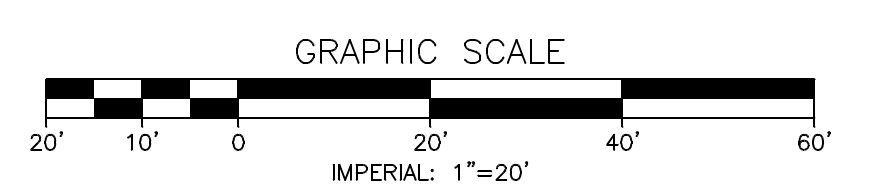
**DRAINAGE SYMBOLS:**

-  1P PIPE OR BASIN
-  E1S SUBCATCHMENT
-  R2 REACH
-  OP1 OBSERVATION POINT

-  WATERSHED BOUNDARY
-  TIME OF CONCENTRATION
-  SURFACE WATER FLOW

**NRCS SOILS LEGEND:**  
SOURCE: USDA NRCS WEB SOIL SURVEY

-  SOIL BOUNDARY
- 15** SEARSPORT MUCKY PEAT, HSG D
- 26B** WINDSOR LOAMY SAND, 3 TO 8% SLOPES, HSG A
- 142C** MONADNOCK FINE SANDY LOAM, 8 TO 15% SLOPES, HSG B
- 495** OSSIPEE MUCKY PEAT, HSG D



REV.	DATE	DESCRIPTION	C/O	DR	CK

**PRE-DEVELOPMENT DRAINAGE PLAN**  
**TAX MAP 536 LOTS 49, 50, 55, 56**  
**(0 ELM STREET, 0 CARROLL STREET & 225 ELM STREET)**  
**KEENE, NEW HAMPSHIRE**  
 PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
 118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885  
 LAND OF:  
**NUEVO TRANSFERS LLC**  
 69A ISLAND STREET, KEENE, NH 03431

SCALE: 1" = 20' APRIL 17, 2026

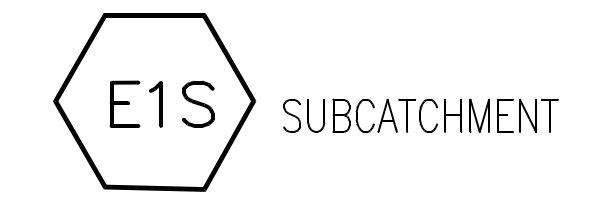
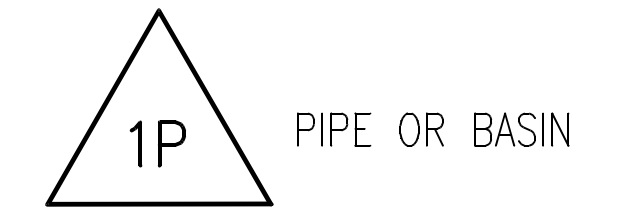
Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

**FIELDSTONE**  
LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055  
 45 Roxbury Street, Keene, NH 03431  
 Phone: (603) 672-5456 Fax: (603) 413-5456  
 www.FieldstoneLandConsultants.com

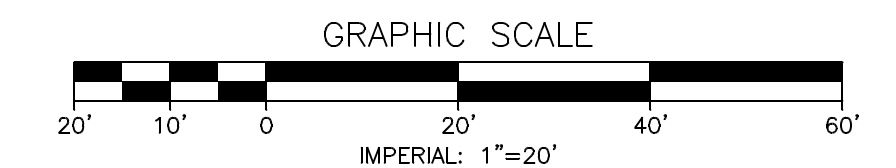
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**DRAINAGE SYMBOLS:**



**NRCS SOILS LEGEND:**  
SOURCE: USDA NRCS WEB SOIL SURVEY

15	SEARSPORT MUCKY PEAT, HSG D
26B	WINDSOR LOAMY SAND, 3 TO 8% SLOPES, HSG A
142C	MONADNOCK FINE SANDY LOAM, 8 TO 15% SLOPES, HSG B
495	OSSIPEE MUCKY PEAT, HSG D



REV.	DATE	DESCRIPTION	C/O	DR	CK

**POST-DEVELOPMENT DRAINAGE PLAN**  
**TAX MAP 536 LOTS 49, 50, 55, 56**  
**(0 ELM STREET, 0 CARROLL STREET**  
**& 225 ELM STREET)**  
**KEENE, NEW HAMPSHIRE**  
 PREPARED FOR:  
**CHRISTOPHER MASIELLO**  
 118 PORTSMOUTH AVENUE, BUILDING D SUITE 204, STRATHAM, NH 03885  
 LAND OF:  
**NUEVO TRANSFERS LLC**  
 69A ISLAND STREET, KEENE, NH 03431

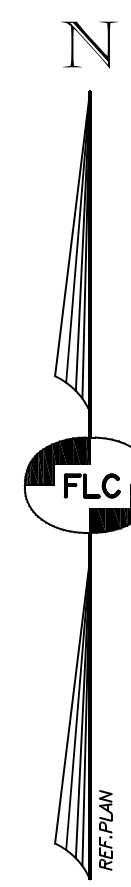
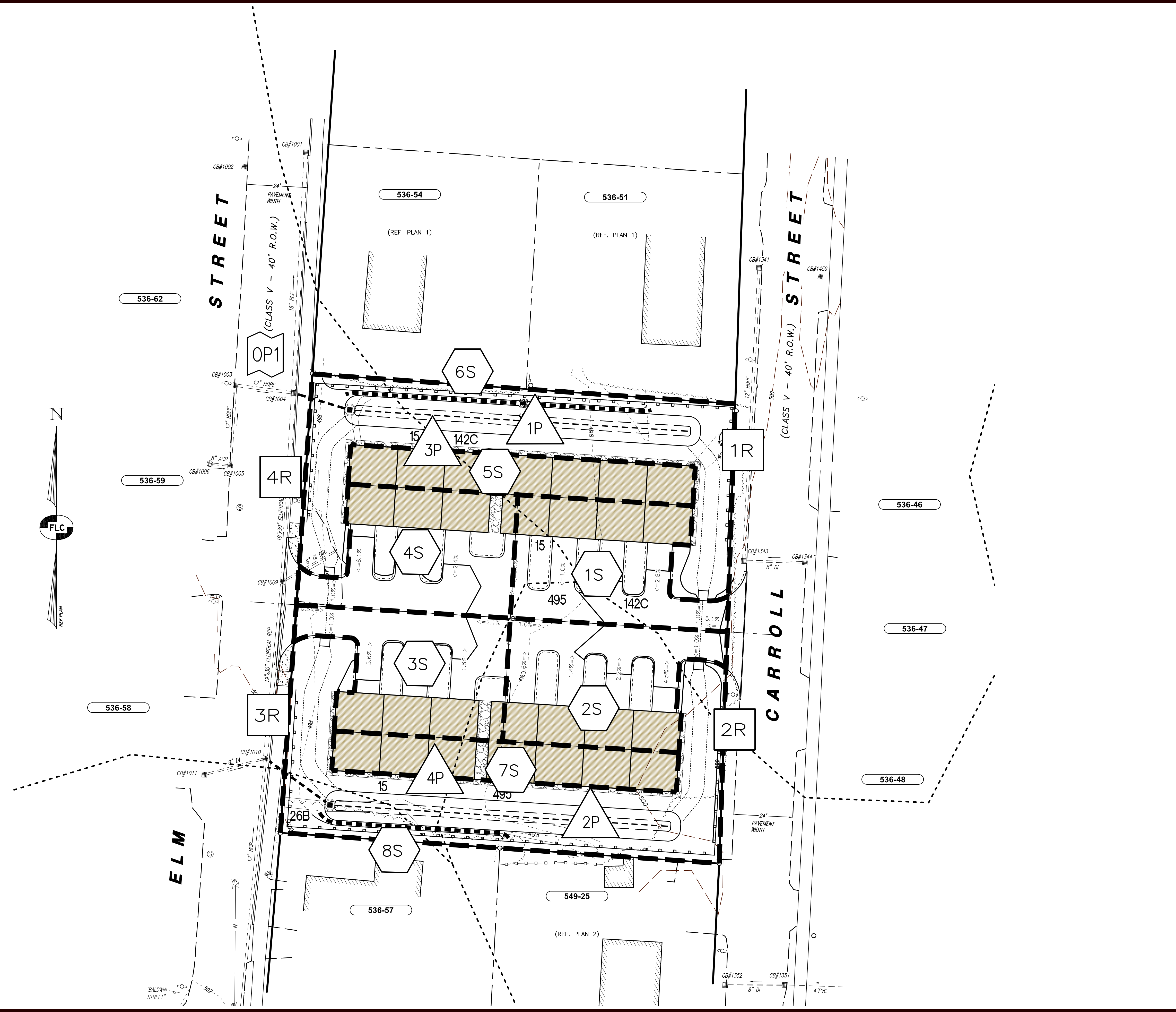
SCALE: 1" = 20' APRIL 17, 2026

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

**FIELDSTONE**  
LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055  
 45 Roxbury Street, Keene, NH 03431  
 Phone: (603) 672-5456 Fax: (603) 413-5456  
 www.FieldstoneLandConsultants.com

FILE: 4200DP00.dwg PROJ. NO. 4200.00 SHEET: DP-2



Apr 16, 2026 - 1:44pm FLC-31 P:\02\_FLC\PROJECTS\04200\4200.dwg



# CITY OF KEENE NEW HAMPSHIRE

ITEM #G.5.

**Meeting Date:** May 26, 2026  
**To:** Planning Board  
**From:** Evan Clements, Planner  
**Through:** Mari Brunner, Senior Planner  
**Subject:** **PB-26-13 - George St. Cottage Court Conditional Use Permit - Applicant A. Eli Leno, on behalf of owner NH Home Buyers LLC, proposes to convert a detached garage into a dwelling unit on the single-family property located at 135 George St. (TMP# 534-002-000). The property is ~.26 ac and is in the Low Density District.**

---

**Recommendation:**

To review the attached staff report and application materials in preparation for the public hearing.

**Attachments:**

1. Staff Report
2. Application Materials
3. Applicant Narrative
4. Existing & Proposed Conditions Plan
5. Architectural Plans

**Background:**

The subject property is an existing .26 ac residential lot located on the south side of George St. between Charles St. to the east and Sullivan St. to the west. The property contains an existing ~800 Sq. ft. single-family residence and driveway. The purpose of this application is to construct a second single-family home on the southeast corner of the property. The new residence will utilize the existing driveway and contain an attached single car garage. The proposed location conforms with all current setback requirements. No additional changes to the property are proposed.

# STAFF REPORT

## PB-26-13 – COTTAGE COURT CONDITIONAL USE PERMIT – SINGLE FAMILY UNIT, 135 GEORGE ST

### **Request:**

Applicant A. Eli Leno, on behalf of owner NH Home Buyers LLC, proposes to construct a second detached single-family residence on the property located at 135 George St. (TMP# 534-002-000). The property is ~.26 ac and is in the Low Density District.

### **Background:**

The subject property is an existing .26 ac residential lot located on the south side of George St. between Charles St. to the east and Sullivan St. to the west. The property contains an existing ~800 Sq. ft. single-family residence and driveway. The house was built in 1905 and is legally non-conforming with respect to the front and side setbacks. The detached garage that was located on the property was recently demolished as it was in poor condition. The property is in the Low Density District and is adjacent to single-family uses to the north and west, a duplex to the east, and forested cemetery land to the south.

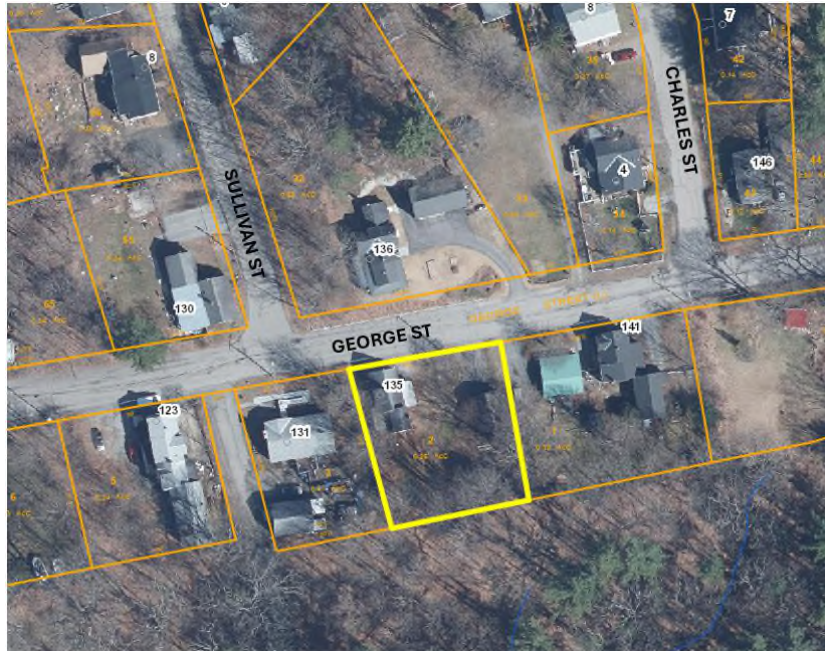


Fig 1: Aerial of 135 George St outlined in yellow.

The purpose of this application is to construct a second single-family home on the southeast corner of the property. The new residence will utilize the existing driveway and contain an attached single car garage. The proposed location conforms with all current setback requirements. No additional changes to the property are proposed.

### **Determination of Regional Impact:**

Staff have made a preliminary evaluation that the proposal does not appear to have the potential for “regional impact” as defined in RSA 36:55. The Board should make a final determination as to whether the proposal could have the potential for regional impact.

### **Completeness:**

The applicant requests exemptions from submitting a grading plan, landscaping plan, lighting plan, and all technical reports. Staff have made the preliminary determination that granting these exemptions will have no bearing on the merits of the application and recommend that the Board accept the application as complete.

# STAFF REPORT

## Application Analysis:

### Article 17 – Cottage Court Conditional Use Permit Criteria:

17.4 Permitted Uses: The permitted use table 17-1 allows for Dwelling, Single-Family in the Low-Density zoning district. This standard has been met.

17.5.1 Development Types Allowed: The applicant proposes to maintain the existing lot as a single parcel and add the second dwelling unit. At this time the applicant has not decided if the units will be rented out or sold as condominiums. This standard has been met.

17.5.3 Conditional Use Permit Standards:

A. Dwelling Unit Size: The proposed building footprint and gross floor area (gfa) of the dwelling unit is 804 sq. ft. The building footprint is calculated excluding the garage and porches, and the unit size is calculated excluding garages. Since the proposed porches are covered but not enclosed by walls, these are also excluded from the unit size calculation. This standard is met.

B. Parking: Each unit will have one exterior parking space. This standard is met.

C. Building Separation: Each building has more than 5 ft of separation. This standard is met.

D. Driveways: Both units will utilize existing driveways and street access points. No new street access or driveways are proposed. This standard is met.

E. Screening: The proposed single-family residence is not a greater intensity of use than surrounding uses. Additional screening is not required. This standard is met.

F. Architectural Guidelines: The applicant proposes a single-story cottage-style bungalow that appears to utilize traditional building materials and architectural practices common throughout the City. The Board will need to determine if this standard is met.



Fig 2: Rendering of proposed dwelling.

## STAFF REPORT

### **Recommended Motion:**

If the Board is inclined to approve this request, the following motion is recommended:

**“Grant final approval for PB-26-13 as shown on the plans prepared by Associated Designs Inc. at a scale of ¼ inch =1 foot on January 21, 2026 and on the plans prepared by Smith & Pospesil Land Surveying Company, PLLC at a scale of 1inch =10 feet on May 2, 2026 with the following conditions:**

- 1. Subsequent to final approval and signature of the plans by the Planning Board Chair, the following conditions shall be met:**
  - a. Prior to the commencement of site work, the erosion and sediment control measures shall be inspected by the Community Development Department to ensure compliance with this application and all City of Keene regulations.**
  - b. Submittal of recorded easements and/or any other legal instruments necessary for this application to the Community Development Department.**



City of Keene, NH

# Cottage Court Conditional Use Permit (CUP) Application

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

## SECTION 1: PROJECT INFORMATION

**PROJECT NAME:** \_\_\_\_\_ **NUMBER OF NEW DWELLING UNITS PROPOSED:** 2 total, 1 new

*(Please note: Proposals that include the creation of 5 or more new units will require current Major Site Plan review. See the Major/Minor Site Plan application for additional information.)*

**project address(es):** 135 George Street,  
Keene, NH 03431

**DOES THIS PROJECT INCLUDE A PROPOSAL TO SUBDIVIDE ONE OR MORE PARCELS?**

YES  
 NO

*(If yes, a Subdivision application will need to be submitted and reviewed currently with the Cottage Court application. See the Article 20 of the Land Development Code (LDC) for additional information.)*

**AVERAGE GROSS FLOOR AREA OF ALL PROPOSED UNITS (In SF):** 2440

## SECTION 2: CONTACT INFORMATION

PROPERTY OWNER	APPLICANT
<b>NAME/COMPANY:</b> NH Home Buyers LLC	<b>NAME/COMPANY:</b> Starting Nine Consulting Inc.
<b>MAILING ADDRESS:</b> PO Box 4066, Windham, NH 03087	<b>MAILING ADDRESS:</b> 10 Lydston Lane, Litchfield, NH 03052
<b>PHONE:</b> [REDACTED]	<b>PHONE:</b> [REDACTED]
<b>EMAIL:</b> [REDACTED]	<b>EMAIL:</b> [REDACTED]
<b>SIGNATURE:</b> <i>Jeremy Beland</i> A3D5A9BAC5C54BB...	<b>SIGNATURE:</b> <i>Jim Cardello</i> [REDACTED]
<b>PRINTED NAME:</b> Jeremy Beland	<b>PRINTED NAME:</b> Jim Cardello

AUTHORIZED AGENT (if different than Owner/Applicant)	FOR OFFICE USE ONLY:
<b>NAME/COMPANY:</b> A. Eli Leino, Esq., Bernstein Shur	<b>TAX MAP PARCEL #(s):</b> 534 .0 02 .0 00.
<b>MAILING ADDRESS:</b> 670 N. Commercial St, Ste 108, PO Box 1120, Manchester, NH 03105-1120	<b>PARCEL SIZE:</b> 0.26
<b>PHONE:</b> [REDACTED]	<b>DATE STAMP:</b> <b>RECEIVED</b> APR 17 2026
<b>EMAIL:</b> [REDACTED]	<b>ZONING DISTRICT:</b> LD
<b>SIGNATURE:</b> <i>A. Eli Leino</i>	<b>PROJECT #:</b> PB-26-13
<b>PRINTED NAME:</b> A. Eli Leino	<b>By</b> [REDACTED]

## SECTION 3: APPLICATION SUBMISSION REQUIREMENTS

**A COMPLETE APPLICATION MUST INCLUDE THE FOLLOWING ITEMS. BOTH PHYSICAL & DIGITAL COPIES OF APPLICATION MATERIALS MUST BE SUBMITTED USING THE METHODS BELOW.**

- **Digitally:** Email (communitydevelopment@keeneh.gov) or a file-sharing platform (such as Dropbox)
- **Mail / Hand Deliver:** Community Development (4th Floor), City Hall, 3 Washington St, Keene, NH 03431

The submittal requirements for Cottage Court Conditional Use Permit (CUP) applications are outlined further in **Article 17.5.5.B** and **Article 26.14** of the [Land Development Code \(LDC\)](#). You may request an exemption from providing any of the items below, except the application fee, notice list, narrative, and mailing labels. The Community Development Director may grant an exemption, if it is determined that the scope of the project does not warrant the submittal.

*Note: Additional information may be required by the respective decision-making authority during the review process.*

### GENERAL SUBMITTAL REQUIREMENTS

**CERTIFIED NOTICE LIST** (See Attachment A for more information.)

**2 SETS OF MAILING LABELS** (See Attachment A for more information.)

**PROJECT NARRATIVE** (See Section 2 of Attachment B for more information.)

**FEES:** Fill in the information below to calculate the total fee.

\$100 base fee + \$62 legal ad fee + ( \$1.44 current USPS certificate of mailing rate x 18 abutters) = \$192.72 (Total Fee)

**NOTE:** Please call the Community Development Department for the current certificate of mailing rate. Checks should be made payable to the *City of Keene*. Credit card payments are accepted in-person or by calling 603-352-5440.

**WAIVERS** (See Section 3 of Attachment B for additional information.)

**WAIVER(S) REQUESTED**  
 **NO WAIVER(S) REQUESTED**

PLAN SETS (See Attachment C for additional information.)	SUBMITTED	EXEMPTION REQUESTED
LOCATION MAP OF PROPOSED IMPROVEMENTS	To be provided	
EXISTING CONDITIONS PLAN	To be provided	
PROPOSED CONDITIONS PLAN		X
GRADING PLAN		X
LANDSCAPING PLAN		X
LIGHTING PLAN		X
ELEVATIONS	✓	
TECHNICAL REPORTS (See Attachment C for additional information.)	SUBMITTED	EXEMPTION REQUESTED
DRAINAGE REPORT		✓
TRAFFIC ANALYSIS (ONLY REQUIRED FOR PROJECTS PROPOSING 10 OR MORE NEW DWELLING UNITS)		✓
SOIL ANALYSIS		✓
HISTORIC EVALUATION		✓
SCREENING ANALYSIS		✓
ARCHITECTURAL & VISUAL APPEARANCE ANALYSIS		✓
OTHER REPORTS / ANALYSES		✓

**POSTED NOTICE REQUIREMENT** (See Section 1 of Attachment B for additional information.)

ATTACHMENT A: CERTIFIED NOTICE LIST INSTRUCTIONS

City of Keene, NH

Community Development Department  
Certified Notice List



If you have questions about how to complete an application, please call: (603) 352-5440 or email: [communitydevelopment@keenenh.gov](mailto:communitydevelopment@keenenh.gov)

Per Article 26.2.4 of the Land Development Code (LDC) and in accordance with state law, certain Zoning Board of Adjustment (ZBA), Planning Board, and Historic District Commission (HDC) applications require mailed notice.

**The following parties are required to be noticed as part of the application process:**

- Property owner
- Project applicant
- Authorized agent (if applicable)
- All direct property abutters (including those across water bodies and roads), as well as all properties within 200-ft of the subject parcel
- Every engineer, architect, land surveyor, or soil scientist whose professional seal appears on any plan
- Holders of conservation, preservation, or agricultural preservation restrictions on the property

*\*Note: Only direct abutters must be noticed as part of HDC applications.*

**For these applications, the following items must be submitted:**

- A list of all persons entitled to notice
- 2 sets of mailing labels
- Notice certification form
- Mailing fee (current USPS certificate of mailing rate\* x number of abutters)

*\*Please call the Community Development Department for the current certificate of mailing rate.*

**The notice list shall include the following information:**

- Property owner's name
- Property owner's mailing address
- Property owner's street address,
- The tax map parcel (TMP) number(s) (15-digit number)

**The mailing labels shall include the following information:**

- Property owner's name
- Property owner's mailing address
- The tax map parcel (TMP) number(s)

The City of Keene's [GIS Database](http://axisgis.com/keenenh/) (axisgis.com/keenenh/) can be used to generate an abutters list and mailing labels.

**PLEASE MAKE SURE THAT ALL PARTIES INCLUDED ON THE NOTICE LIST ARE ALSO INCLUDED ON THE MAILING LABELS.**

CERTIFICATION OF ACCURACY

By signing below, you are certifying that the submitted notice list is accurate and true to the best of your ability and that per Article 26.2.4.A.3 of the LDC, the notice list is current to within 10 days of the application submittal.

Jim Cardello

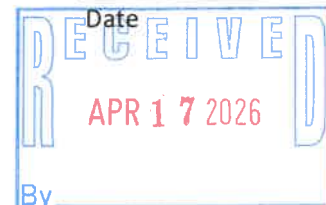
04/16/2026

Print Name

Date

DocuSigned by:

Signature



PB-26-13



**ARTICLE 17. COTTAGE COURT OVERLAY DISTRICT  
CONDITIONAL USE PERMIT NARRATIVE  
135 George Street  
Map 534, Lot 002  
Keene, NH**

In accordance with the Conditional Use Permit Procedure set forth in Land Development (“LDC”) Code Section 17.5.5.B., please accept the following Narrative on behalf of the Applicant. 135 George Street (the “Property”) is a 0.26-acre lot situated in the Low Density (LD) zoning district. The Property is improved by a single-family home built in 1905, as well as a garage. The Applicant is proposing to renovate the existing three-bedroom, one-bathroom house. The garage will be replaced with a two-bedroom, two-bathroom home with garage, built on a 1,201 square-foot footprint featuring 800 square feet of living space (see building plan included herewith).

Pursuant to Section 17.1, the proposal promotes infill development, encourages efficient use of land through the additional proposed unit, provides the type of “starter home” generally missing from the market, and encourages compact development within walking distance from Downtown Keene. Per Section 17.2, the location in the LD zone is applicable for the proposed Cottage Court development, and the proposed single-family use is allowed by Table 17-1.

**17.5.3 Conditional Use Permit Standards**

- A. The proposed new building will provide 800 square feet of living space. This complies with the size requirement, which specifically excludes garages from the calculation.
- B. At least one exterior parking space will be provided for each home, in compliance with this requirement.
- C. The buildings will be separated to the maximum amount possible on the lot while complying with the side setback requirements.
- D. No driveways providing access to three or more units are contemplated.
- E. No internal roads are contemplated.
- F. Both buildings, and neighborhood generally, are developed as single-family homes. As such, criterion F is not applicable to this project.

NEW HAMPSHIRE STATE PLANE  
 COORDINATE SYSTEM NAD 83  
 MAGNETIC DECLINATION: 13° 38' W  
 CONVERGENCE ANGLE: -0° 24' 35" TO GEODETIC NORTH  
 OBSERVATION DATE: APRIL, 2026  
 COMBINED SCALE FACTOR: 0.99997433

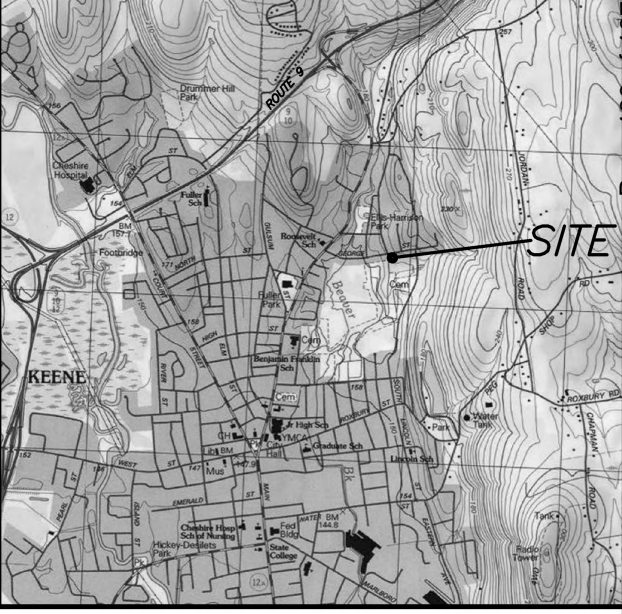
TM 532 LOT 32  
 HARRY C & HELEN E SHAW  
 BK 784 PG 187  
 136 GEORGE ST  
 KEENE NH 03431

TM 534 LOT 3  
 PAUL J & ANNETTE M  
 SHACKETT  
 BK 3291 PG 709  
 131 GEORGE ST  
 KEENE NH 03431

TM 534 LOT 2  
 NH HOME BUYERS LLC  
 BK 3326 PG 294  
 11,350.04 SQ FT  
 .26 AC

TM 534 LOT 1  
 GOLDSMITH & BARNARD  
 REVOCABLE TRUST  
 BK 3157 PG 650  
 140 TALBOT HILL RD  
 SWANZEY NH 03446

TM 534 LOT 4  
 CITY OF KEENE  
 3 WASHINGTON ST  
 KEENE NH 03431



LOCATION MAP  
 1 inch = 2000 feet

LEGEND

- Monument Found
- Calculated Point
- Utility Pole
- Hydrant
- Sewer Manhole
- Catch Basin
- Property Line
- Approx Abutters Line
- - - Major Contour Line
- - - Minor Contour Line
- Stonewall

Notes:

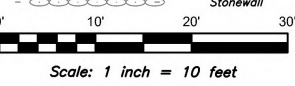
1. Owner of Record: NH Home Buyers LLC P.O. Box 4066 Windham, NH 03807.
2. The Basis of Record is Grid. The Horizontal Datum is on the New Hampshire State Plane Coordinate System NAD83 (2011). The Vertical Datum is NAVD 88. Both horizontal and vertical datum's were derived from a static GNSS observation taken during the time of the field survey and processed using the Online Positioning User System (OPUS).
3. This plan is based on a field survey completed in April of 2026 using iGage dual frequency RTK survey grade GNSS receivers, and meets the technical standards for an urban survey per the NH Code of Administrative Rules of the Board of Licensure for Land Surveyors.
4. The property lies in the Low Residential Zoning District - LR. Building Setbacks are 15' front, 10 feet side and 20' rear.
5. The subject parcel is severed by municipal water and sewer

Certification

"I certify that this survey plat is not a subdivision pursuant to N.H.R.S.A. Title LXIV and that the lines of streets and ways shown are those of public or private streets or ways already established and that no new ways are shown." RSA 676:18,iii



A SURVEY OF LAND FOR  
**NH HOME BUYERS LLC**  
 TAX MAP 534 LOT 2  
 VOLUME 3326 PAGE 294  
 IN THE TOWN OF  
 KEENE, NEW HAMPSHIRE  
 SMITH & POSPESIL  
 LAND SURVEYING COMPANY, PLLC  
 240 QUEBEC ROAD, LYMAN, N.H. 03585  
 APRIL 30, 2026



NEW HAMPSHIRE STATE PLANE  
 COORDINATE SYSTEM NAD 83  
 MAGNETIC DECLINATION: 13° 38' W  
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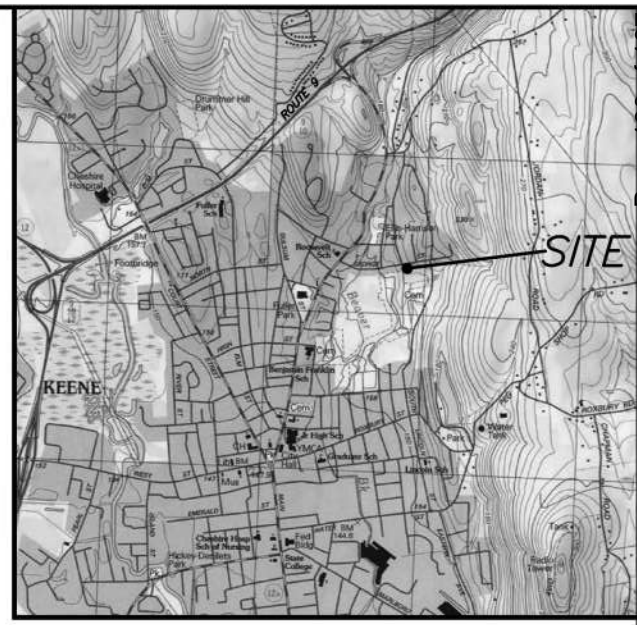
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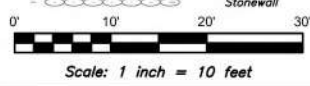
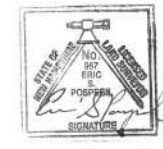
TM 534 LOT 4  
 CITY OF KEENE  
 3 WASHINGTON ST  
 KEENE NH 03431



LOCATION MAP  
 1 inch = 2000 feet

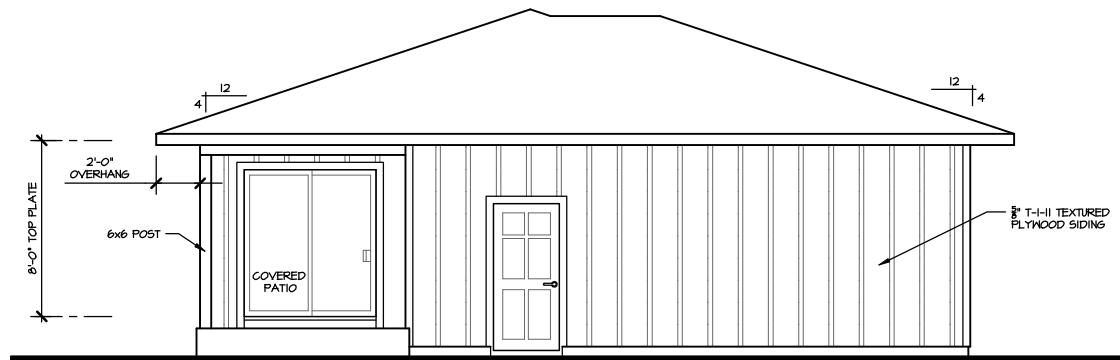
LEGEND

- Monument Found
- Calculated Point
- Utility Pole
- Hydrant
- Sewer Manhole
- Catch Basin
- Property Line
- Approx Abutters Line
- Major Contour Line
- Minor Contour Line
- Stonewall



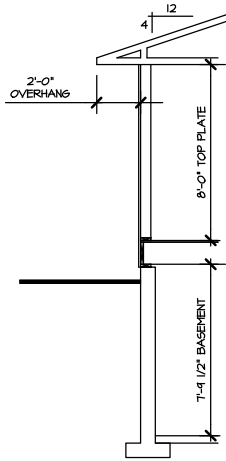
PROPOSED CONDITIONS PLAN  
**NH HOME BUYERS LLC**  
 TAX MAP 534 LOT 2  
 VOLUME 3326 PAGE 294  
 IN THE TOWN OF  
 KEENE, NEW HAMPSHIRE  
 SMITH & POSPESIL  
 LAND SURVEYING COMPANY, PLLC  
 240 QUEBEC ROAD, LYMAN, N.H. 03585  
 MAY 2, 2026





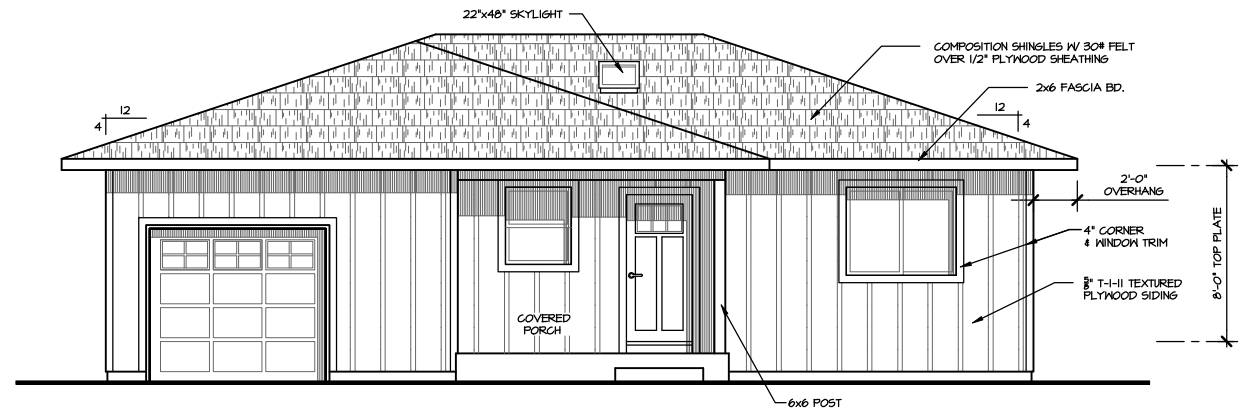
**LEFT ELEVATION**

SCALE: 1/4"=1'-0"



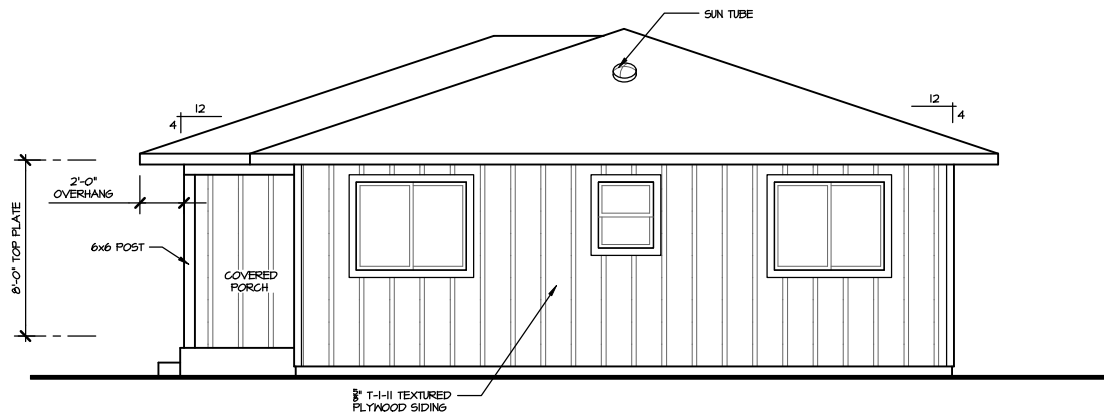
**EAVE REFERENCE OUTLINE**

SCALE: 1/4"=1'-0"



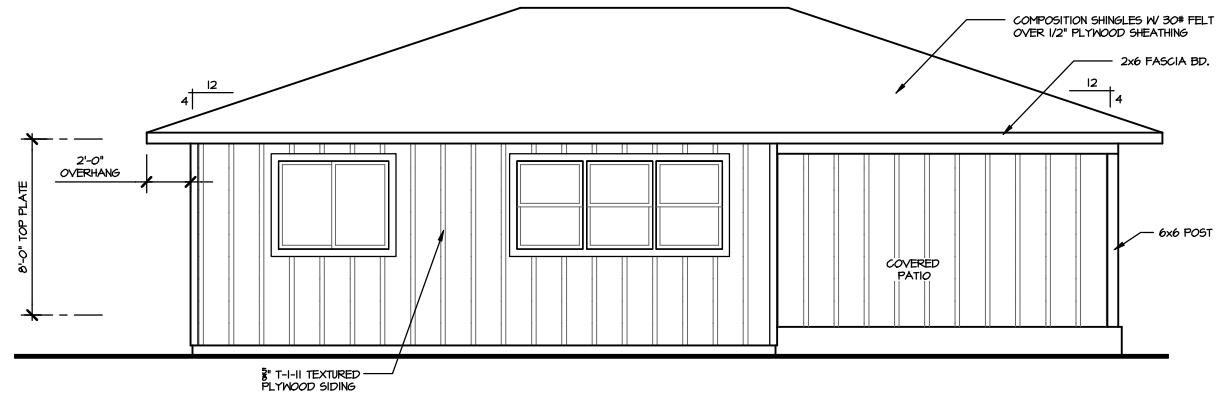
**FRONT ELEVATION**

SCALE: 1/4"=1'-0"



**RIGHT ELEVATION**

SCALE: 1/4"=1'-0"



**REAR ELEVATION**

SCALE: 1/4"=1'-0"

**NOTES:**

OWNER & BUILDER/ CONTRACTOR(S) TO REVIEW PLAN FOR COMPLETENESS AND ACCURACY PRIOR TO CONSTRUCTION. NOTIFY ASSOCIATED DESIGNS, INC. OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION.

**ASSUMED DESIGN LOADS:**

- LIVE LOAD @ FLOOR = 40 PSF
- DEAD LOAD @ FLOOR = 10 PSF
- LIVE/SNOW LOAD @ ROOF = 25 PSF
- DEAD LOAD @ ROOF = 15 PSF
- SOIL BEARING PRESSURE = 1500 PSF

**THE PIKE COTTAGE**  
REVERSE / BASEMENT FOUNDATION

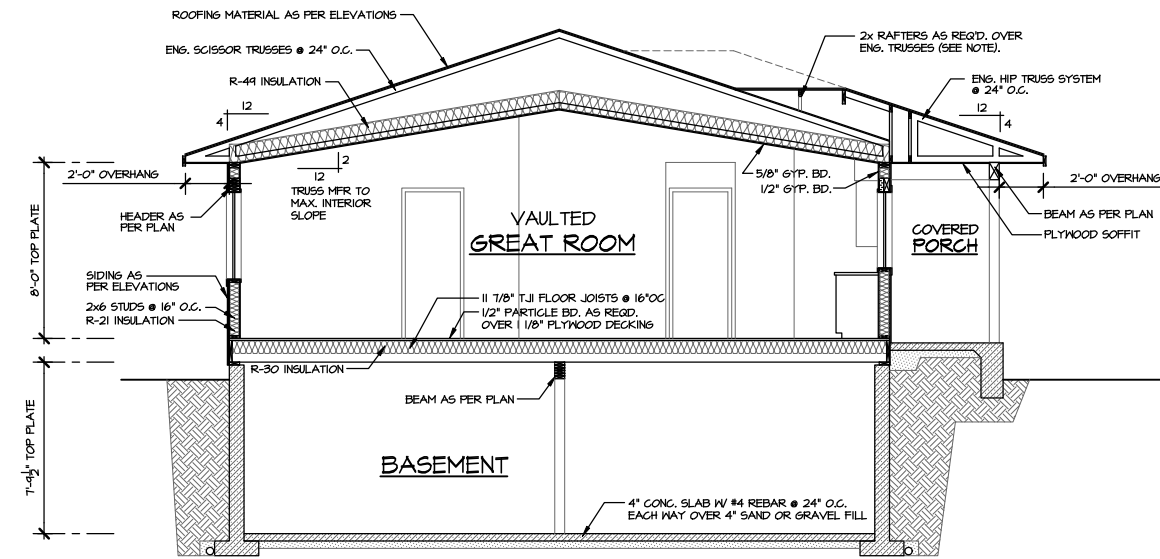
TITLE: ELEVATIONS  
DRAWN CHECK BY: KA TT  
DATE: 01/21/26 SCALE: NOTED

**Associated DESIGNS**

ASSOCIATED DESIGNS, INC.  
www.AssociatedDesigns.com  
1100 JACOBS DRIVE  
EUGENE, OREGON  
97402-1983  
(541) 461-2082  
FAX: (541) 461-1274

REVISIONS:

PROJECT: 31-339R  
**REVERSE BASEMENT**  
SHEET 2 OF 7



### SECTION A-A

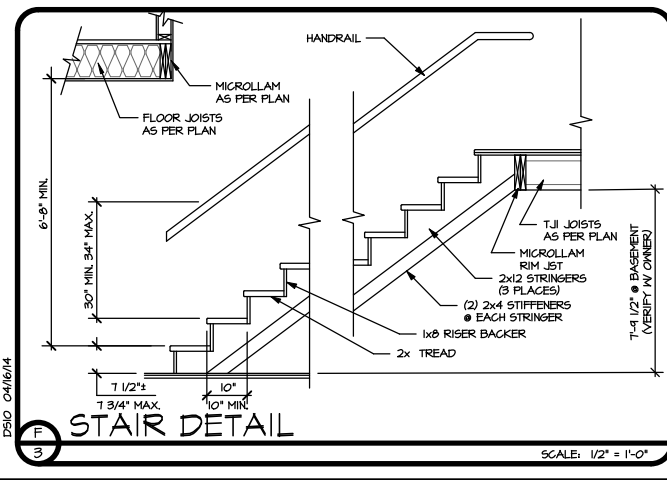
SCALE: 1/4"=1'-0"

#### LEGEND:

READING DOOR & WINDOW SIZES:  
SIZES ARE LISTED AS FEET/INCHES/FEET/INCHES.  
I.E. 3068 DOOR IS 3'-0" WIDE x 6'-8" TALL  
5040 WINDOW IS 5'-0" WIDE x 4'-0" TALL

#### STANDARD ABBREVIATIONS:

- DOORS**
- SC SOLID CORE
  - FR. DR. FRENCH DOOR
  - PKT DR. POCKET DOOR
  - FR. PAIR
  - BF BI-FOLD
  - BP BI-PASS
- WINDOWS**
- FX FIXED
  - CSMT CASEMENT
  - SH SINGLE HUNG
  - DH DOUBLE HUNG
  - XO HORIZONTAL SLIDER (TWO PANEL)
  - XOX HORIZONTAL SLIDER (THREE PANEL)
- FLOOR PLAN**
- A.F.F. ABOVE FINISHED FLOOR
  - C.O. CASSED OPENING
  - DBL DOUBLE
  - DN DOWN
  - DM DOWNS
  - DM DOWNS
  - F.A.U. FORCED AIR UNIT
  - GD GARBAGE DISPOSAL
  - H.B. HOSE BIB
  - REF REFRIGERATOR
  - MW MICROWAVE
  - S & P SHELF & POLE
  - V.T.O. VENT TO OUTSIDE
  - WH. WATER HEATER

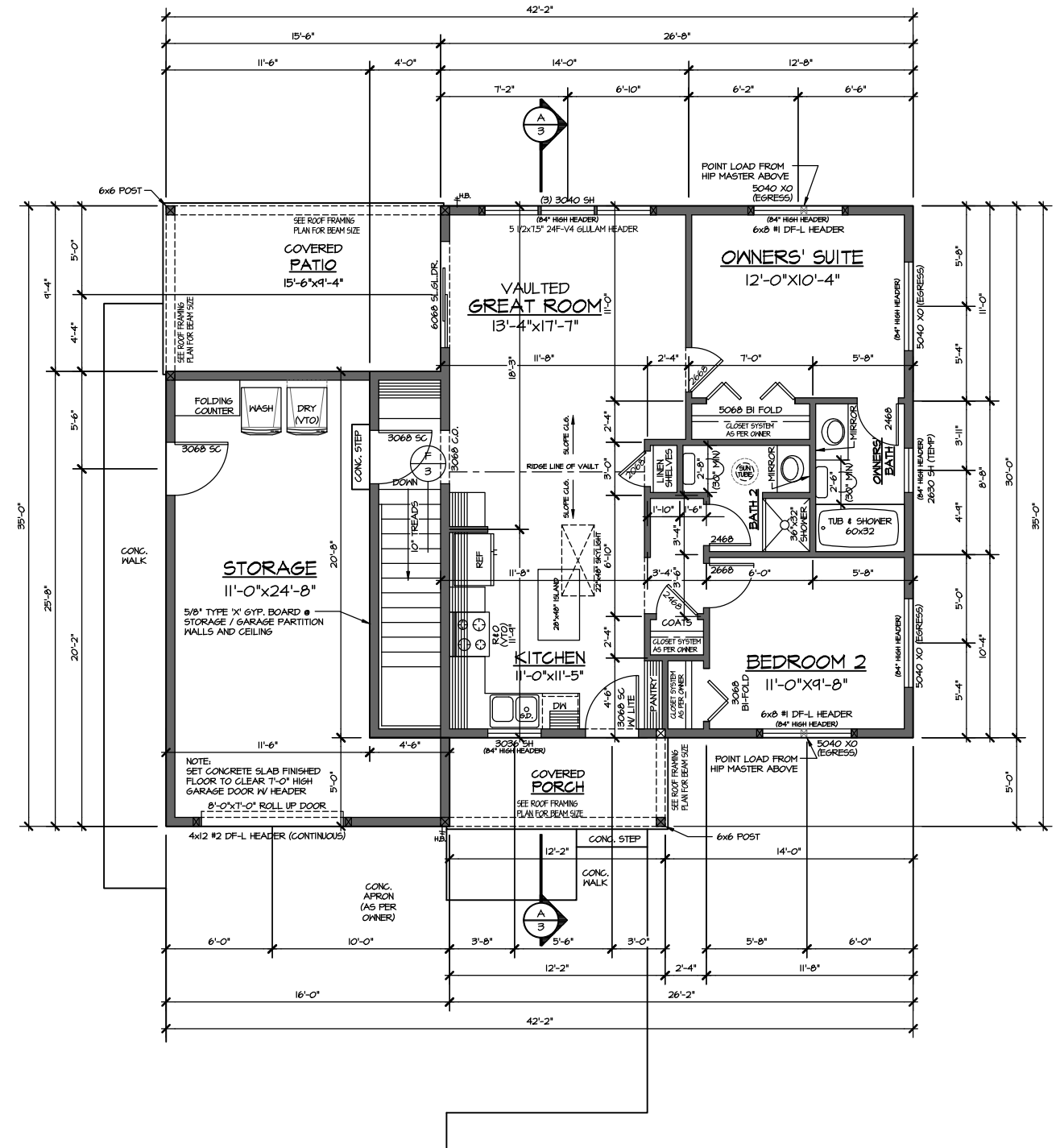


#### WALL BRACING NOTE:

WALL BRACING REQUIREMENTS SHALL BE REVIEWED BY LOCAL PROFESSIONAL TO COMPLY WITH IRC SECTION R602.10 OR WHEN APPLICABLE SECTION R602.12. CONTRACTOR TO REFER TO WALL BRACING DESIGN FOR ADDITIONAL HOLD-DOWN AND NAILING REQUIREMENTS.

#### NOTES:

- EXTERIOR WALL HEADERS TO BE 4x6 #2 DF-L W/ 2" RIGID INSULATION, UNLESS NOTED OTHERWISE.
- INTERIOR BEARING WALL HEADERS TO BE 4x6, UNLESS NOTED OTHERWISE.
- SOLID BLOCKING OF POSTS AT BEAM, HEADER AND POINT LOADS TO BE 2x STUDS NAILED TOGETHER TO MATCH THE WIDTH OF THE SUPPORTING MEMBER ABOVE (EX: (2) 2x STUDS @ 4x BEAM, (3) 2x STUDS @ 6x BEAM, ETC.) UNLESS NOTED OTHERWISE.
- COORDINATE PREWIRE FOR TV, STEREO, TELEPHONE AND SECURITY SYSTEM WITH OWNER.
- MECHANICAL SYSTEM TO BE DESIGNED BY MECHANICAL CONTRACTOR TO MEET OWNERS NEEDS AND COMPLY WITH LOCAL CODES.
- CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- TYPICAL ANGLE IS 45° UNLESS NOTED OTHERWISE.
- ALL NAILING TO BE IN COMPLIANCE W/ IRC TABLE R602.3(1) OR IBC TABLE 2304.4.1.
- LOCAL PROFESSIONAL TO VERIFY STRUCTURAL MEMBERS CAPACITY TO SUPPORT LOADS AS REQUIRED BY SITE CONDITIONS AND LOCATION PRIOR TO CONSTRUCTION.



### FLOOR PLAN

SCALE: 1/4"=1'-0"

#### BASEMENT SQUARE FOOTAGE:

LIVING AREA	883 SQ. FT.
STORAGE	318 SQ. FT.
TOTAL	1201 SQ. FT.

REVIEWED RM DIMS/SQ.FT. KA CHECK TT UPDATED: 01/21/26

THE PIKE COTTAGE  
REVERSE / BASEMENT FOUNDATION

TITLE: FLOOR PLAN & SECTION A-A

DATE: 01/21/26

SCALE: NOTED

DRAWN CHECK BY: KA TT

Associated DESIGNS

ASSOCIATED DESIGNS, INC.

1100 JACOBS DRIVE  
EUGENE, OREGON  
97402-1983

(541) 461-2082

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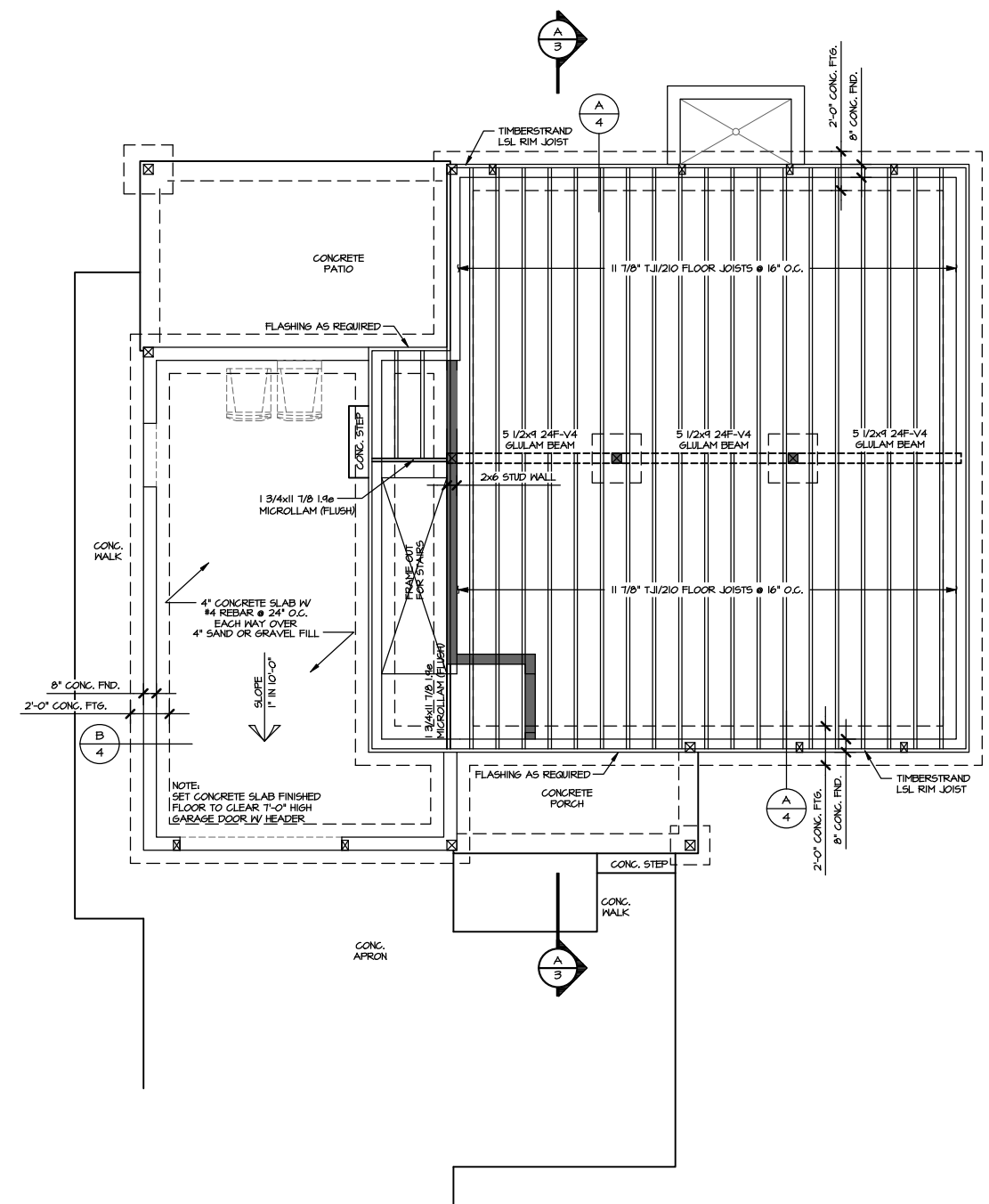
REVISIONS:


REVISION OF: 1051-002

PROJECT: 31-339R  
REVERSE BASEMENT  
SHEET 3 OF 7



REVISIONS:



### FLOOR FRAMING PLAN

SCALE: 1/4"=1'-0"

**WALL BRACING NOTE:**

WALL BRACING REQUIREMENTS SHALL BE REVIEWED BY LOCAL PROFESSIONAL TO COMPLY WITH IRC SECTION R602.10 OR WHEN APPLICABLE SECTION R602.12. CONTRACTOR TO REFER TO WALL BRACING DESIGN FOR ADDITIONAL HOLD-DOWN AND NAILING REQUIREMENTS.

**NOTES:**

- PROVIDE SOLID BLOCKING AS PER TJI MFG. (NOT SHOWN).
- USE METAL FASTENERS AT ALL BEAM TO SUPPORT MEMBER CONNECTIONS.
- USE SIMPSON IUS 11.88 JOIST HANGERS (WIDTH AS REQUIRED FOR TJI SERIES) AT FLUSH BEAMS.
- INSTALL (2) 12d NAILS @ EACH TJI JOIST BEARING LOCATION. ONE (1) NAIL EACH SIDE OF WEB (1 1/2" MINIMUM FROM END).
- ALL NAILING TO BE IN COMPLIANCE W/ IRC TABLE 602.3(1) OR IBC TABLE 2304.9.1.
- LOCAL PROFESSIONAL TO VERIFY STRUCTURAL MEMBERS CAPACITY TO SUPPORT LOADS AS REQUIRED BY SITE CONDITIONS AND LOCATION PRIOR TO CONSTRUCTION.



TITLE: ELECTRICAL PLAN  
 DRAWN CHECK BY: KA BT  
 DATE: 01/21/26 SCALE: NOTED

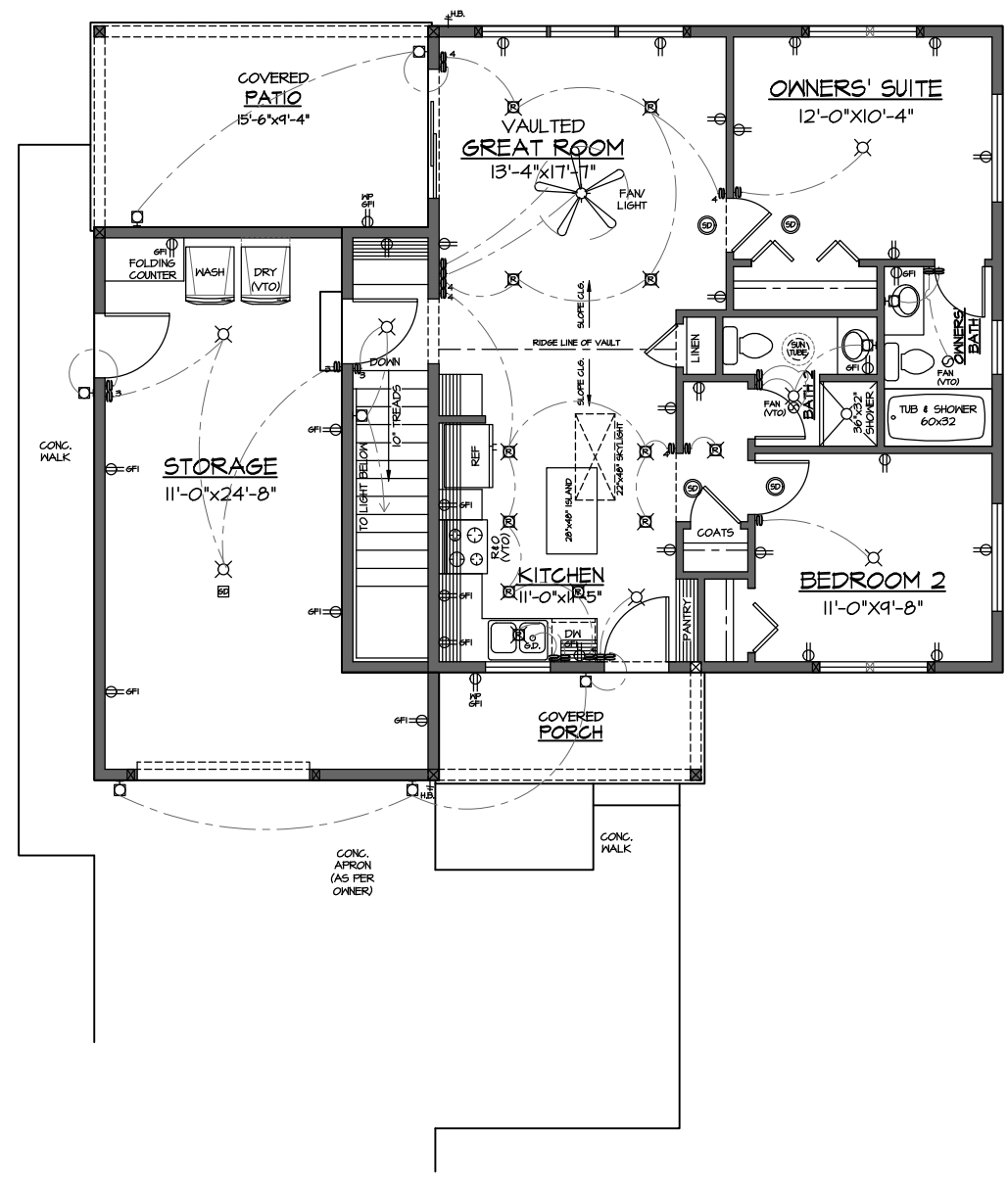
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REVISIONS:

REVISION OF:  
1057-002

PROJECT:  
**31-339R**  
**REVERSE**  
**BASEMENT**  
SHEET **7** OF **7**



**ELECTRICAL PLAN**

SCALE: 1/4"=1'-0"

**LIGHTING LEGEND:**

- 12"x48" LED FIXTURE
- UNDER CABINET LED LIGHTING
- CEILING LIGHT
- RECESSED CEILING LIGHT
- RECESSED EYEBALL CEILING LIGHT
- HANGING CEILING LIGHT
- WALL MOUNTED LIGHT
- SMOKE ALARM / CARBON MONOXIDE ALARM AS PER R314 & R315.
- FAN (VENT TO OUTSIDE)
- DUPLEX OUTLET
- DUPLEX OUTLET / SPLIT WIRED
- WALL OUTLET, GROUND FAULT INTERRUPT
- WALL OUTLET, WATER PROOF GROUND FAULT INTERRUPT
- SWITCH
- 3 WAY SWITCH
- GARAGE DOOR OPENER
- PHOTOCELL
- FLOOD LIGHTS. OPTIONAL MOTION DETECTORS AS PER OWNER
- RECESSED STAIR DOWN LIGHTING - CONNECTED TO PHOTOCELL
- CAR CHARGING STATION

**NOTES:**

- GROUND FAULT CIRCUIT PROTECTION REQUIRED FOR ALL 110 VOLT, SINGLE PHASE, 15 & 20 AMP OUTLETS INSTALLED OUTSIDE, IN GARAGE, BATHROOMS, WITHIN 12" OF KITCHEN SINK OR ABOVE KITCHEN COUNTERS.
- COORDINATE PREWIRE FOR STEREO, TELEVISIONS, TELEPHONE AND SECURITY SYSTEM WITH OWNER.
- MECHANICAL SYSTEM TO BE DESIGNED BY MECHANICAL CONTRACTOR TO MEET OWNERS NEEDS AND COMPLY WITH IRC CHAPTERS 12 THROUGH 24 AND LOCAL CODES.