

# JONES & BEACH ENGINEERS INC.

85 Portsmouth Avenue, PO Box 219, Stratham, NH 03885  
603.772.4746 - JonesandBeach.com

October 18, 2022

Rochester Planning Board  
Attn. Nel Sylvian  
31 Wakefield Street  
Rochester, NH 03867

**RE: Response Letter 2  
19 Old Gonic Road, Rochester, NH  
Tax Map 131, Lot 1  
JBE Project No. 21090**

Dear Mr. Sylvian,

We are in receipt of comments from Theresa Hervey, Town Assessing Department, Ryan O'Connor, Conservation Commission, and Dana Webber, Department of Public Works dated September 27, 2022. Review comments are listed below with our responses in bold.

## **ASSESSING DEPARTMENT COMMENTS:**

- 1. Please see all previous comments pertaining to this project. If this project is being done in phases than please provide us with a plan showing what you believe may still qualify for Current Use, with calculations and acreages. We'll use it to compare as the lot is developed.*  
**RESPONSE: We have provided a plan showing the Current Use area and acreages. See Sheet CU at the end of the Plan Set.**

## **CONSERVATION COMMISSION COMMENTS:**

- 1. Please note that a winter stabilization plan will be required if more than an acre of disturbance will be open or unstabilized at any time between October 15 and May 15. "*  
**RESPONSE: Winter stabilization notes have been added to the Phasing Plan.**
- 2. Please provide a 3D rendering of the proposed buildings to show an angled view and sample color palette of the different buildings in the development.*  
**RESPONSE: 3D renderings of the proposed buildings are included with this submittal.**
- 3. Once temporary construction easements have been determined, please provide amended abutter list to the Planning Department.*  
**RESPONSE: An amended abutter list will be provided prior to the Planning Board meeting.**

3. *Please add the following plan notes:*

*- Trash disposal must be managed by a private agreement.*

**The above note is already on Sheet OVRs as Note #19.**

*- A neighborhood meeting is required prior to any blasting on site.*

**The above note has been added as Note #22 on Sheet OVRs.**

*- On-site roads, infrastructure, and amenities shall all be privately maintained.*

**The above note has been added as Note #23 on Sheet OVRs.**

*Note that the site will require a street name application and addressing plan prior to final plans being signed.*

**RESPONSE: A street name application and Addressing Plan will be provided prior to final plans being signed.**

**DEPARTMENT OF PUBLIC WORKS, TRG IV COMMENTS**

1. *Stormwater management ordinance recent amendment requires that the applicant enter approved BMPs and other management features into the PTAP database, prior to pre-construction meeting and updated post construction. This should occur prior to the first CO for each phase.*

**RESPONSE: Approved BMPs and other management features will be entered into the PTAP database prior to pre-construction meetings for each phase.**

2. *Additional escrow required for 3<sup>rd</sup> review. Drainage report, updated plans and associated reports supporting waiver requests are currently in review by Geosyntech. Any comments shall be addressed as a precedent condition and prior to certifying plans. If significant site plan changes are required to address comments, additional technical review may be required. NOTE – additional waiver mentioned for swale velocities but no formal request was made.*

**RESPONSE: Additional escrow has been set up for the third review. Comments from Geosyntech will be addressed before the plans are certified. No waivers will be necessary.**

3. *The signalized intersection of Brock and Columbus is a high traffic area with delays during peak hours. The 3<sup>rd</sup> party traffic review indicates that this development will expedite the declining level of service and increase queuing. The 3<sup>rd</sup> party traffic consultant recommends \$26,000 contribution toward signalization optimization. DPW strongly supports this to mitigate increased queuing and delays.*

**RESPONSE: A contribution of \$26,000 will be made toward signalization optimization prior to final Planning Board approval.**

4. *Offsite improvements shall be monitored by 3<sup>rd</sup> party construction inspector approved by the City of Rochester. Any water or sewer work must be performed by an approved water/sewer contractor licensed by the City of Rochester.*

**RESPONSE: The above note has been added to Sheet OFF2 as Note #1.**

5. *Sheet OFF2 shows overlay of Emerson Street from Emerson Court toward the development. Due to disturbance associated with the water main replacement, curbing, sidewalks and any grading or drainage modifications, the entirety of Emerson Street should be overlaid from Brock Street to Emerson Court.*

**RESPONSE:** The plans has been updated to note that the entirety of Emerson Street will be overlaid due to the disturbance of the water main, curbing, sidewalks, and grading and drainage modifications.

6. The shoulder widening detail shows grading beyond the new curb line to meet existing. A detailed surveyed plan of this area should be prepared to show limits of work, grading, driveway aprons, mailboxes, and other features that could be affected. Temporary construction easement must be obtained to perform work on the adjacent private properties. The abutters to off-site improvements should be notified of this project prior to Planning Board meeting.

**RESPONSE:** A detailed plan to show the grading of the area where the shoulder has been widened to allow the new curb line to meet the existing is in the plan set as OFF6. Abutters to the offsite work have been added to Sheet OFF3 and a revised abutter's list will be provided prior to the Planning Board meeting.

7. Plan comments:

- a. All pavement details for City streets should include 1.5" top course  $\frac{1}{2}$  aggregate and 2.5" binder course  $\frac{3}{4}$ " aggregate (Sheet D1). Private drives/roads can have a separate detail.

**RESPONSE:** The Typical Roadway Section has been revised to include the City pavement specifications.

- b. On Sheet OFF3, modify the shoulder widening detail to show 1  $\frac{1}{2}$ " top course  $\frac{1}{2}$  aggregate and 2  $\frac{1}{2}$  inch binder course  $\frac{3}{4}$ " aggregate.

**RESPONSE:** The Shoulder Widening detail on sheet OFF3 has been revised to show the above pavement depths.

- c. Sheet P6 shows profile of connection to existing sewer manhole, provide a detail of the connection to the existing including repair/patching/waterproofing of new penetration.

**RESPONSE:** A detail of the connection to the existing sewer manhole has been added to Sheet D5.

- d. Water meter vault detail, the lay length of 8-in meter, backflow, valves and fittings is at least 12-feet. Ensure the size of meter hatch/manway can accommodate removal of all parts.

**RESPONSE:** The water meter pit detail was provided by the manufacturer, which they have used on other projects without issue. Equipment needed has fit into the same size meter pit on other projects so we anticipate the contractor will be able to construct the meter pit without incident.

- e. Sheet PH should include offsite improvements, where are they in the phasing plan. Also is erosion control needed for any of this work.

**RESPONSE:** Sheet PH has been updated with offsite improvements included in Phase 1. Silt fence has been added to has also been included on Sheet OFF6.

- f. Sewer service connection details should indicate minimum service size is 6-inch for this project. Connection detail should indicate Fernco is not allowed at transitions, solid coupling/reducer fittings are required.

**RESPONSE:** Sewer connection details now include the minimum service size of 6 inches. Connection details now indicate Fernco is not allowed at transitions and that solid coupling/reducer fittings are required.

- g. On Sheet OFF6, add a note to relocate gas main as needed for installation of CBs in new shoulder.  
**RESPONSE: A note has been added to Sheet OFF6 to show the relocation of the gas main as needed for installation of CBs in the new shoulder.**
- h. Sheet D2, Cath Basin detail, note that CBs in City ROW will need to be Rexus hinged cast iron square grates, or equal.  
**RESPONSE: A note has been added on Sheet D2 to the Catch Basin detail to note the CBs in City ROW are required to be Rexus hinged cast iron square grates or equal.**
- i. On Sheet D2, note the hydrant breakaway flange shall be maximum 6-inches above grade and minimum 2-inches above grade for City owned hydrants. Hydrants shall be Kennedy K81-D.  
**RESPONSE: A note has been added on Sheet D2 to show the hydrant breakaway flange shall be maximum 6-inches above grade and minimum 2-inches above grade for City owned hydrants and that hydrants shall be Kennedy K81-D.**
- j. Sheet OFF1 shows half of the existing conditions, provide a match line or note referencing Sheet C4 for continuation of existing conditions in offsite improvement area.  
**RESPONSE: A note referencing Sheet C4 has been added to show the continuation of existing conditions in the offsite improvement area.**
- k. Sheet OFF4, the existing DMH near Emerson Court is shown covered by new sidewalk. Relocate the DMH or sidewalk. Please review all drainage, grading and conflicts in the City ROW for the offsite improvements.  
**RESPONSE: The sidewalk has been relocated on Sheet OFF4 and drainage, grading and conflicts with City ROW have been addressed.**
- 8. Recently adopted water and sewer connection fees will be assessed at the time of water/sewer connection permit application for each building. Prior to CO for each building, the fees must be paid.  
**RESPONSE: Based on the Memorandum of Understanding, fees provided for the offsite sewer pump station upgrades will be paid at the time the CO application is submitted.**
- 9. The Old Route 125 Sewer Pump Station which will receive flow from this development requires upgrade to accommodate the full capacity. DPW and the applicant are meeting to determine costs associated with the upgrade.  
**RESPONSE: We will comply with the results of the meeting with DPW and provide a portion of the upgrading costs to the City.**



Included with this response letter are the following:

1. Three (3) Full Size Plan Sets.
2. Four (4) 11x17 Plan Sets (Folded).
3. Four (4) Architectural Renderings.
4. Two (2) Stormwater Report.

Thank you very much for your time.

Very truly yours,

**JONES & BEACH ENGINEERS, INC.**

A handwritten signature in black ink, appearing to read 'J. Coronati', written over a vertical line that serves as a separator between the signature and the name below.

Joseph Coronati  
Vice President

cc: Green & Company (via email)  
John O'Neil (via email)  
John Sykora, Weston & Sampson (via email)  
Renee Bourdeau, PE, Geosyntec (via email)

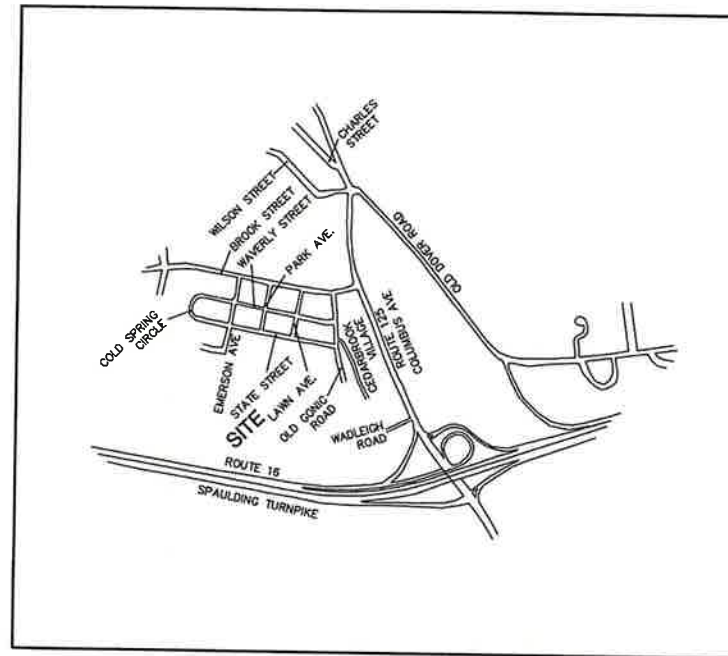
# PROPOSED SITE PLAN "BAYBERRY COMMONS"

TAX MAP 131, LOT 10  
19 OLD GONIC ROAD, ROCHESTER, NH

GENERAL LEGEND		DESCRIPTION
EXISTING	PROPOSED	PROPERTY LINES
		SETBACK LINES
		CENTERLINE
		FRESHWATER WETLANDS LINE
		TIDAL WETLANDS LINE
		STREAM CHANNEL
		TREE LINE
		STONEWALL
		BARBED WIRE
		FENCE
		STOCKADE FENCE
		SOIL BOUNDARY
		AQUIFER PROTECTION LINE
		FLOOD PLAIN LINE
		ZONELINE
		EASEMENT
		MAJOR CONTOUR
		MINOR CONTOUR
		EDGE OF PAVEMENT
		VERTICAL GRANITE CURB
		SLOPE GRANITE CURB
		CAPE COD BERM
		POURED CONCRETE CURB
		ORGANIC FILTER BERM
		DRAINAGE LINE
		SEWER LINE
		SEWER FORCE MAIN
		GAS LINE
		WATER LINE
		WATER SERVICE
		OVERHEAD ELECTRIC
		UNDERGROUND ELECTRIC
		GUARDRAIL
		UNDERDRAIN
		FIRE PROTECTION LINE
		THRUST BLOCK
		IRON PIPE/IRON ROD
		DRILL HOLE
		IRON ROD/DRILL HOLE
		STONE/GRANITE BOUND
		SPOT GRADE
		PAVEMENT SPOT GRADE
		CURB SPOT GRADE
		BENCHMARK (TBM)
		DOUBLE POST SIGN
		SINGLE POST SIGN
		WELL
		TEST PIT
		FAILED TEST PIT
		MONITORING WELL
		PERC TEST
		PHOTO LOCATION
		TREES AND BUSHES
		UTILITY POLE
		LIGHT POLES
		DRAIN MANHOLE
		SEWER MANHOLE
		HYDRANT
		WATER GATE
		WATER SHUT OFF
		REDUCER
		SINGLE GRATE CATCH BASIN
		DOUBLE GRATE CATCH BASIN
		TRANSFORMER
		CULVERT W/ WINGWALLS
		CULVERT W/ FLARED END SECTION
		CULVERT W/ STRAIGHT HEADWALL
		STONE CHECK DAM
		DRAINAGE FLOW DIRECTION
		4K SEPTIC AREA
		WETLAND IMPACT
		VEGETATED FILTER STRIP
		RIPRAP
		OPEN WATER
		FRESHWATER WETLANDS
		TIDAL WETLANDS
		STABILIZED CONSTRUCTION ENTRANCE
		CONCRETE
		GRAVEL
		SNOW STORAGE
		RETAINING WALL

## WILDLIFE PROTECTION NOTES:

- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHGREVIEW@MAIL.NH.GOV. EMAIL SUBJECT LINE: NH921-3300, BAYBERRY COMMONS, WILDLIFE SPECIES OBSERVATION.
- PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION AS FEASIBLE.
- IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG, IF ANY, TO ASSURE THE PROJECT DOES NOT APPRECIABLY JEOPARDIZE THE CONTINUED EXISTENCE OF THREATENED AND ENDANGERED SPECIES AS DEFINED IN ITS 1002.04.
- THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.



LOCUS MAP  
SCALE 1" = 2000'

## CIVIL ENGINEER / SURVEYOR

JONES & BEACH ENGINEERS, INC.  
85 PORTSMOUTH AVENUE  
PO BOX 219  
STRATHAM, NH 03885  
(603) 772-4746  
CONTACT: JOSEPH CORONATI  
EMAIL: JCORONATI@JONESANDBEACH.COM

## TRAFFIC ENGINEER

STEPHEN G. PERNAW & COMPANY, INC.  
P.O. BOX 1821  
CONCORD, NH 03302  
(603) 731-8500  
CONTACT: STEPHEN G. PERNAW  
EMAIL: SGP@PERNAW.COM

## WETLAND CONSULTANT

GOVE ENVIRONMENTAL SERVICES, INC.  
8 CONTINENTAL DR., BUILDING 2, UNIT H  
EXETER, NH 03833-7526  
(603) 778-0644  
CONTACT: JAMES GOVE  
EMAIL: JGOVE@GESINC.BIZ

## LANDSCAPE DESIGNER

LM LAND DESIGN, LLC  
11 SOUTH ROAD  
BRENTWOOD, NH 03833  
(603) 770-7728  
CONTACT: LISE McNAUGHTON  
EMAIL: LMLANDDESIGN@GMAIL.COM

## WATER AND SEWER

ROCHESTER DEPARTMENT OF PUBLIC WORKS  
45 OLD DOVER ROAD  
ROCHESTER, NH 03867  
(603) 332-4096  
CONTACT: MICHAEL BEZANSON, P.E.

## ELECTRIC

EVERSOURCE ENERGY  
74 OLD DOVER ROAD  
ROCHESTER, NH 03867  
(603) 555-5334  
CONTACT: MARK BOUCHER

## TELEPHONE

CONSOLIDATED COMMUNICATIONS  
1575 GREENLAND ROAD  
GREENLAND, NH 03840  
(603) 427-5525  
CONTACT: JOE CONSIDINE

## CABLE TV

COMCAST COMMUNICATION CORPORATION  
334-B CALEF HIGHWAY  
EPPING, NH 03042-2325  
(603) 679-5695

## NATURAL GAS

UNITIL SERVICE CORP.  
325 WEST ROAD  
PORTSMOUTH, NH 03801  
(603) 294-5261  
EMAIL: MACLEAND@UNITIL.COM

## SHEET INDEX

CS	COVER SHEET
A1	BOUNDARY PLAN
OVEX	EXISTING CONDITIONS OVERVIEW PLAN
C1-C4	EXISTING CONDITIONS PLAN
DM1	DEMOLITION PLAN
OVR5	OVERVIEW SITE PLAN
C5-C8	SITE PLANS
OVRG	OVERVIEW GRADING PLAN
C9-C11	GRADING AND DRAINAGE PLAN
OVRU	OVERVIEW UTILITY PLAN
U1-U2	UTILITY PLAN
L1-L2	LANDSCAPE PLAN
L3-L4	LIGHTING PLAN
P1-P5	ROAD PLAN AND PROFILE
P6-P10	SEWER PROFILE
OFF-1-5	OFFSITE IMPROVEMENT PLANS
D1-D4	DETAIL SHEETS
E1	EROSION AND SEDIMENT CONTROL DETAILS
PH	PHASING PLAN
CU	CURRENT USE EXHIBIT

PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

APPROVED - ROCHESTER, NH  
PLANNING BOARD

DATE:

Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg  
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



REV.	DATE	REVISION	BY
12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

Designed and Produced in NH  
**J/B Jones & Beach Engineers, Inc.**  
Civil Engineering Services  
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885  
603-772-4746  
FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **COVER SHEET**  
Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

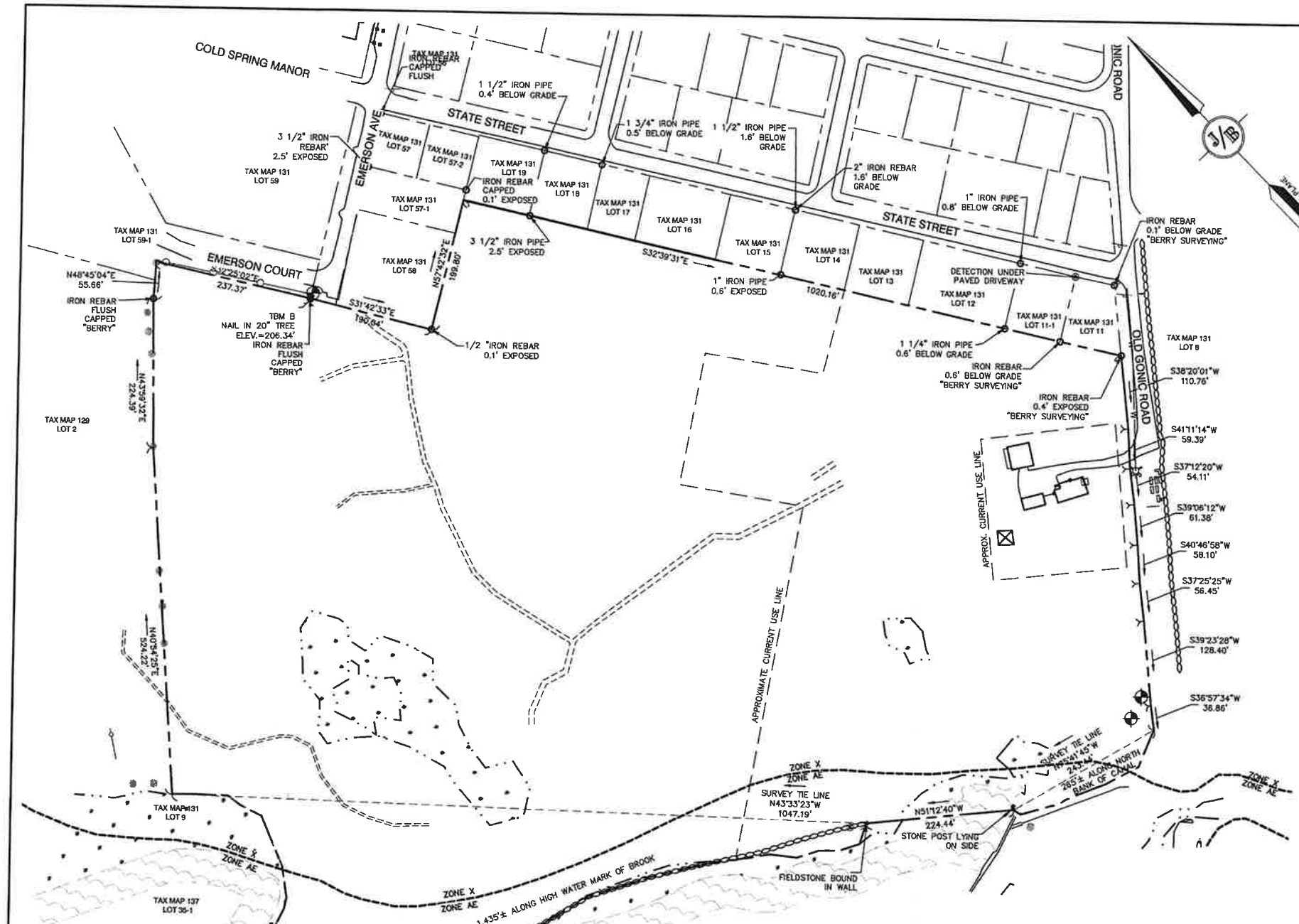
DRAWING No.

**CS**

SHEET 1 OF 48  
JBE PROJECT NO. 21090

PROJECT NAME AND LOCATION  
JBE # 21090





### CERTIFICATION:

I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN UNADJUSTED LINEAR ERROR OF CLOSURE THAT EXCEEDS BOTH THE MINIMUM OF 1:10,000 AS DEFINED IN SECTION 503.04 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES AND THE MINIMUM OF 1:15,000 AS DEFINED IN SECTION 4.2 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

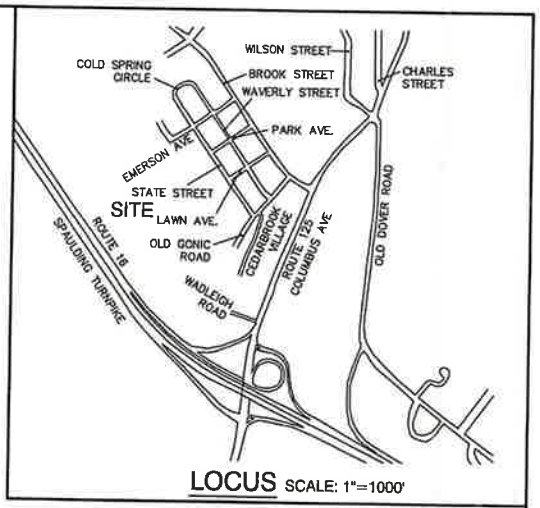
THIS SURVEY CONFORMS TO A CATEGORY 1 SURVEY AS DEFINED IN SECTION 4.1 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

I CERTIFY THAT THIS SURVEY PLAN IS NOT A SUBDIVISION PURSUANT TO THIS TITLE 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.



DAVID M. COLLIER, LLS 892  
ON BEHALF OF JONES & BEACH ENGINEERS, INC.

DATE:



### ABUTTERS:

- |   |   |   |   |  |  |  |  |  |   |  |   |   |   |   |  |  |  |  |   |   |   |   |   |  |  |  |  |   |  |  |  |   |   |  |  |   |   |   |  |  |   |   |   |  |   |  |   |  |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |   |  |
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| 131/08-1<br>LAURA GATCHELL<br>1A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4853/126 (5/9/19) | 131/08-2<br>KATHRYN SOUSA<br>18 CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2965/618 (3/30/2004) | 131/08-3<br>ANNA & ROBERT<br>PERERA<br>1C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4546/299 (1/31/18) | 131/08-4<br>AMY SCHAEFFER<br>1D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4387/484 (5/28/18) | 131/08-5<br>NATHANIEL PRIEBE<br>1E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4655/795 (5/19/19) | 131/08-6<br>DAVID PETTIS<br>1F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4658/411 (5/30/19) | 131/08-7<br>AMANDA LAMBERT<br>1G CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3631/316 (3/27/08) | 131/08-8<br>CAROLINE LEWIS<br>1H CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4597/717 (8/30/18) | 131/08-9<br>STEPHEN & PATRICIA<br>TALOR<br>2A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2392/538 (10/15/01) | 131/08-10<br>BRIAN HEBERT<br>2B CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3567/428 (8/23/07) | 131/08-11<br>BUD TANDUHART<br>2C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>429/512 (5/7/15) | 131/08-12<br>GEORGE GATCOMB<br>2D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3328/679 (1/28/06) | 131/08-13<br>RAYMOND KING<br>2E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3474/0028 (12/18/06) | 131/08-14<br>OAK BLUFF REALTY LLC<br>242 CENTRAL AVE<br>DOVER NH 03820<br>3953/549 (9/8/11) | 131/08-15<br>SEAN JACKSON<br>3A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4581/644 (8/28/18) | 131/08-16<br>ELIZABETH HANSON<br>3B CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4457/435 (2/9/17) | 131/08-17<br>ALICIA WANSOHN<br>3C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4823/411 (11/27/18) | 131/08-18<br>EVANS FAMILY TRUST<br>3D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4757/588 (4/8/20) | 131/08-19<br>JESSICA STENERI<br>3E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4487/437 (6/22/17) | 131/08-20<br>SEAN CONNORS<br>3F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4598/273 (8/27/18) | 131/08-21<br>SRARH GAMBORNE<br>4A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3018/408 (6/20/04) | 131/08-22<br>BRIAN MCQUADE<br>274 CEDAR ST<br>SEBASTIAN, FL 32858<br>3911/711 (1/13/11) | 131/08-23<br>KERRY DESAUTEL<br>4C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3935/932 (6/27/11) | 131/08-24<br>PATRICK RILEY<br>4D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2400/678 (10/30/01) | 131/08-25<br>PAULE PRATT<br>4E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2918/46 (12/11/03) | 131/08-26<br>TIMUR GAMIROV<br>4F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4296/903 (5/28/15) | 131/08-27<br>HAYDEN GRACE KRISTY<br>5A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4684/777 (6/19/19) | 131/08-28<br>LINDA LACHANCE<br>5B CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3477/108 (12/21/06) | 131/08-29<br>MICHAEL WALSH<br>5C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4705/193 (10/30/19) | 131/08-30<br>SANDRA FOURNIER<br>5D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2942/181 (2/11/04) | 131/08-31<br>LLOD DOG PROPERTIES<br>LLC<br>24 MORRISON LANE<br>DOVER, NH 03820<br>4027/158 (5/29/12) | 131/08-32<br>ELIZABETH BARKS<br>235 LONG POND ROAD<br>DANVILLE, NH 03819<br>3719/789 (3/10/09) | 131/08-33<br>DEBRA WELCH<br>6A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4823/411 (11/27/18) | 131/08-34<br>JOSEPH ZUROWSKIS<br>6B CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2110/732 (5/28/1999) | 131/08-35<br>ONGGOWARSTO<br>MULAWATI<br>8C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4312/136 (7/24/15) | 131/08-36<br>JOSHUA SWONGER<br>8D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4958/1035 (9/21/21) | 131/08-37<br>LINDSEY NICKLESS<br>8E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4814/926 (10/1/20) | 131/08-38<br>LOUISE BOUCHER<br>8F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>1977/283 (1/11/1998) | 131/08-39<br>ERIN FERLAND<br>7D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4963/870 (10/5/21) | 131/08-40<br>ROBIN GARY<br>7E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4541/960 (1/4/18) | 131/08-41<br>BRANDON MAINS<br>7C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4828/242 (1/10/19) | 131/08-42<br>IOLA FOREMAN<br>7D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4598/155 (8/30/18) | 131/08-43<br>MELANIE HOLT<br>7F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4798/991 (8/17/20) | 131/08-44<br>ALEXANDRA WICKMAN<br>JOSEPH WARREN<br>7G CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4785/858 (5/28/20) | 131/08-45<br>KARLIS PAULIS<br>8A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4715/120 (12/2/19) | 131/08-46<br>MICHAEL CROVETTI<br>8B CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4715/120 (12/2/19) | 131/08-47<br>PHILIP LANG<br>8C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4581/977 (8/28/18) | 131/08-48<br>ROBIN LORD<br>8D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4823/182 (6/22/21) | 131/08-49<br>MARRISA CORBIN<br>8E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4845/275 (4/3/19) | 131/08-50<br>JUSTIN MANTEUFFEL<br>8F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3522/214 (4/2/07) | 131/08-51<br>JEFFREY BOOMER<br>9A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4576/729 (6/17/18) | 131/08-52<br>KENNETH MAUSER<br>8B CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3935/182 (6/28/11) | 131/08-53<br>HOMER WOODBURY<br>9C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3165/820 (3/31/05) | 131/08-54<br>SAULNIER<br>9D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4579/933 (6/28/18) | 131/08-55<br>ALISON JESSEMAN<br>9E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4363/999 (3/8/16) | 131/08-56<br>CHEN YU<br>9F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4541/960 (1/4/18) | 131/08-57<br>UNWAMBYEY ESPERANCE<br>10A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4960/191 (9/23/21) | 131/08-58<br>DANIEL DEGRANDPRE<br>10B CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4658/850 (5/29/19) | 131/08-59<br>RALPH STILLINGS<br>10C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4525/479 (10/26/17) | 131/08-60<br>DENISE SELFE<br>10D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2215/280 (4/16/2000) | 131/08-61<br>RICHARD DUSETT<br>33 ALEXANDRA LANE<br>ROCHESTER, NH 03867<br>1304/258 (4/15/1987) | 131/08-62<br>JOHN COLECOCHIA<br>10 F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4792/125 (5/7/20) | 131/08-63<br>TARA CHAPFIELD<br>11A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2443/74 (1/10/02) | 131/08-64<br>MOORE FAMILY REV.<br>TRUST<br>21 RIDGEWOOD ROAD<br>ELIOT, MAINE 03903 | 131/08-65<br>LYNNE PARADIS<br>11C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3120/280 (12/21/04) | 131/08-66<br>GRANT REALTY TRUST<br>ATTN: DAVID PAOLINI<br>242 CENTRAL AVE<br>DOVER NH 03820<br>4178/531 (11/5/13) | 131/08-67<br>LISA KIMBALL<br>11E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4589/836 (8/2/18) | 131/08-68<br>CHARLENE WHITEHOUSE<br>11F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2417/55 (11/25/01) | 131/08-69<br>CHRISTINE SENECHAL<br>12A CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4428/130 (10/25/16) | 131/08-70<br>STEPHEN SMALL<br>9D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>2543/142 (7/11/02) | 131/08-71<br>SARAH BENTON<br>12C CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4573/310 (6/3/18) | 131/08-72<br>ROBERT THOMAS<br>12D CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4680/875 (8/14/19) | 131/08-73<br>SUSAN WELSH<br>12E CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>3032/39 (7/2/04) | 131/08-74<br>MELINDA RIGGER REV.<br>TRUST<br>12F CEDARBROOK AVE<br>ROCHESTER, NH 03867<br>4304/153 (6/25/15) | 131/09<br>CITY OF ROCHESTER<br>31 WAKEFIELD ST<br>ROCHESTER, NH 03867<br>3371/144 (4/10/06) | 137/35-1<br>SSC LLC<br>120 WASHINGTON ST<br>SUITE 302<br>ROCHESTER, NH 03867<br>4605/408 (9/27/18) |
|---|---|---|---|--|--|--|--|--|---|--|---|---|---|---|--|--|--|--|---|---|---|---|---|--|--|--|--|---|--|--|--|---|---|--|--|---|---|---|--|--|---|---|---|--|---|--|---|--|---|---|---|---|---|---|---|---|---|--|--|---|---|---|--|--|---|---|---|---|--|---|---|---|--|---|--|

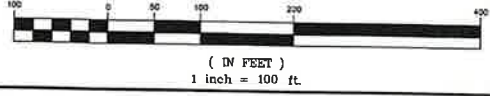
### PLAN REFERENCES:

- "CEDARBROOK VILLAGE CONDOMINIUM DEVELOPMENT BOUNDARY SURVEY FOR ROUNDTREE REALTY TRUST ROCHESTER, NH"; PREPARED BY BERRY CONST. CO., INC.; DATED APRIL 23, 1988; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P23-059.
- "PLAN OF LAND PARCEL NO. 5 TAX ASSESSOR'S MAP NO. 8 NEW HAMPSHIRE ROUTE 125 PREPARED FOR JEN-SCOT REALTY, INC.; PREPARED BY CIVILWORKS ENGINEERS AND SURVEYORS; DATED NOVEMBER 8, 1988 RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P37A-028.
- "PROPOSED SUBDIVISION AND LOT LINE REVISION FOR ROCHESTER HOUSING AUTHORITY COLD SPRING MANOR BROOK STREET ROCHESTER, NH"; PREPARED BY BERRY SURVEYING & ENGINEERING DATED FEBRUARY 13, 2001; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P61-056.
- "PROPOSED SUBDIVISION LAND OF THOMAS & JODI REMINGTON 15 OLD GONIC ROAD ROCHESTER, NH"; PREPARED BY BERRY SURVEYING & ENGINEERING; DATED AUGUST 17, 2005; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P81-0036.
- "SUBDIVISION PLAN TAX MAP 131, LOT 26 WAVERLY ST./ OLD GONIC RD. ROCHESTER NH FOR BAYONNE CONSTRUCTION COMPANY, INC.; PREPARED BY NORWAY PLANS ASSOCIATES, INC.; DATED JULY 25, 2006; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P86-0100.
- "SUBDIVISION PLAN TAX MAP 131, LOT 57 STATE STREET & EMERSON COURT ROCHESTER NH FOR RUNNING WITH HAMMERS, LLC; PREPARED BY NORWAY PLANS ASSOCIATES, INC.; DATED OCTOBER 17, 2007; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P92-014.
- "ROCHESTER HEIGHTS ROCHESTER, NH A.H. CHAPMAN LAND CO"; PREPARED BY E.H. SHEPHERD; DATED JULY 1920; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN #19 POCKET #10 FOLDER #3.

### NOTES:

- THE INTENT OF THIS PLAN IS TO SHOW THE BOUNDARY OF TAX MAP 131, LOT 10.
- THE UTILITY LOCATIONS SHOWN HEREON WERE DETERMINED BY OBSERVED ABOVE GROUND EVIDENCE AND SHOULD BE CONSIDERED APPROXIMATE IN LOCATION ONLY. LOCATION, DEPTH, SIZE, TYPE, EXISTENCE OR NONEXISTENCE OF UNDERGROUND UTILITIES AND/OR UNDERGROUND STORAGE TANKS WAS NOT VERIFIED BY THIS SURVEY. ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK OR CALL DIG-SAFE AT 1-888-DIG-SAFE.
- THE SUBJECT PARCEL IS PARTIALLY LOCATED WITHIN AN AREA HAVING A ZONE AE DESIGNATION BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 330170021D, WITH EFFECTIVE DATE OF MAY 17, 2005 FOR COMMUNITY PANEL NO. 211 OF 405, IN ROCKINGHAM COUNTY, STATE OF NEW HAMPSHIRE, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
- CERTAIN DATA HEREON MAY VARY FROM RECORDED DATA DUE TO DIFFERENCES IN DECLINATION, ORIENTATION, AND METHODS OF MEASUREMENT.
- ALL BOOK AND PAGE NUMBERS REFER TO THE STRAFFORD COUNTY REGISTRY OF DEEDS.
- THE TAX MAP AND LOT NUMBERS ARE BASED ON THE CITY OF ROCHESTER TAX RECORDS AND ARE SUBJECT TO CHANGE.
- RESEARCH WAS PERFORMED AT THE CITY OF ROCHESTER ASSESSOR'S OFFICE, THE STRAFFORD COUNTY REGISTRY OF DEEDS, THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, AND THE NEW HAMPSHIRE STATE ARCHIVES.
- THIS SURVEY IS NOT A CERTIFICATION TO OWNERSHIP OR TITLE OF LANDS SHOWN. OWNERSHIP AND ENCUMBRANCES ARE MATTERS OF TITLE EXAMINATION NOT OF A BOUNDARY SURVEY. THE INTENT OF THIS PLAN IS TO RETRACE THE BOUNDARY LINES OF DEEDS REFERENCED HEREON. OWNERSHIP OF ADJOINING PROPERTIES IS ACCORDING TO ASSESSOR'S RECORDS. THIS PLAN MAY OR MAY NOT INDICATE ALL ENCUMBRANCES EXPRESSED, IMPLIED OR PRESCRIPTIVE.
- ANY USE OF THIS PLAN AND OR ACCOMPANYING DESCRIPTIONS SHOULD BE DONE WITH LEGAL COUNSEL. TO BE CERTAIN THAT TITLES ARE CLEAR, THAT INFORMATION IS CURRENT, AND THAT ANY NECESSARY CERTIFICATES ARE IN PLACE FOR A PARTICULAR CONVEYANCE, OR OTHER USES.
- THIS PLAN IS THE RESULT OF A CLOSED TRAVERSE WITH A RAW, UNADJUSTED LINEAR ERROR OF CLOSURE GREATER THAN 1 IN 46,000.
- SURVEY TIE LINES SHOWN HEREON ARE NOT BOUNDARY LINES. THEY SHOULD ONLY BE USED TO LOCATE THE PARCEL SURVEYED FROM THE FOUND MONUMENTS SHOWN AND LOCATED BY THIS SURVEY.


### GRAPHIC SCALE



Design: JAC	Draft: LAZ	Date: 04/29/21
Checked: JAC	Scale: AS NOTED	Project No.: 21090
Drawing Name: 21090-PLAN.dwg		
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.		



REV.	DATE	REVISION	BY
12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

**Jones & Beach Engineers, Inc.**  
Civil Engineering Services  
85 Portsmouth Ave.  
PO Box 219  
Stratham, NH 03865  
603-772-4748  
FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	<b>BOUNDARY PLAN</b>
Project:	<b>BAYBERRY COMMONS</b> <b>19 OLD GONIC ROAD, ROCHESTER, NH</b>
Owner of Record:	<b>LEO P. LACOUTURE REV. TRUST &amp; WILLIAM B. LACOUTURE</b> <b>19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148</b>

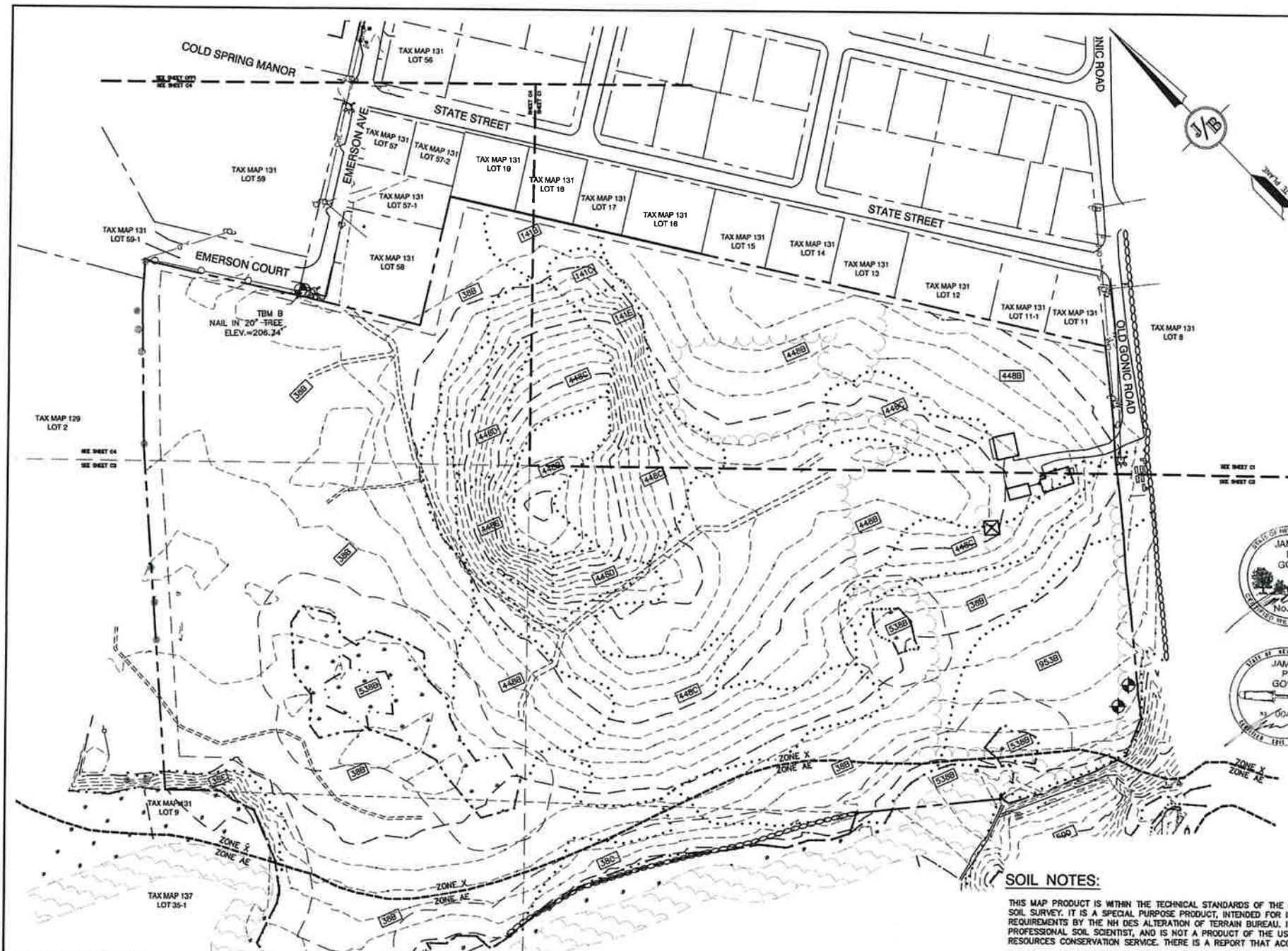
**PROJECT PARCEL**  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

**APPLICANT**  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

**TOTAL LOT AREA**  
1,309,895 SQ. FT. ±  
30.07 ACRES ±

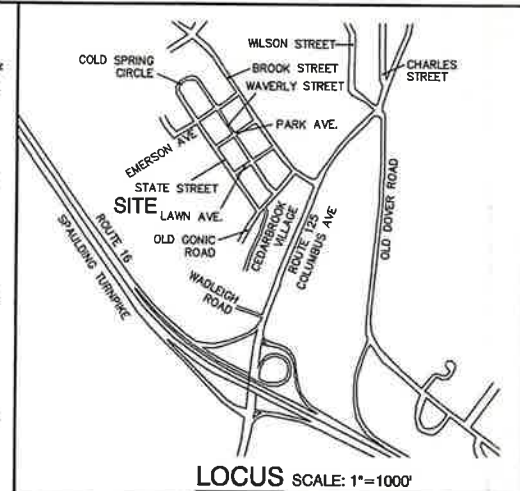
**DRAWING No.**  
**A1**  
SHEET 2 OF 48  
JBE PROJECT NO. 21090





# EXISTING CONDITIONS NOTES:

1. UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER JONES & BEACH ENGINEERS, INC., NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-DIG-SAFE (1-888-344-7233).
2. VERTICAL DATUM: NAVD 88. HORIZONTAL DATUM: STATE PLANE COORDINATES.
3. THE SUBJECT PARCEL IS PARTIALLY LOCATED WITHIN AN AREA HAVING A ZONE AE DESIGNATION BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 3301/00211D, WITH EFFECTIVE DATE OF MAY 17, 2005 FOR COMMUNITY PANEL NO. 211 OF 405, IN ROCKINGHAM COUNTY, STATE OF NEW HAMPSHIRE, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
4. THE LIMITS OF JURISDICTIONAL WETLANDS WERE DELINEATED BY JAMES GOVE DURING SPRING, 2021 IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:
  - a. THE CORPS OF ENGINEERS FEDERAL MANUAL FOR IDENTIFYING AND DELINEATING JURISDICTIONAL WETLANDS.
  - b. THE NORTH CENTRAL & NORTHEAST REGIONAL SUPPLEMENT TO THE FEDERAL MANUAL.
5. THE CURRENT VERSION OF THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, AS PUBLISHED BY THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION AND/OR THE CURRENT VERSION OF THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, AS PUBLISHED BY THE USDA, NRCS, AS APPROPRIATE.
6. THE CURRENT NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS, AS PUBLISHED BY THE US FISH AND WILDLIFE SERVICE.
7. WETLAND BOUNDARIES AND CONSTRUCTION LIMITS ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.



## ABUTTERS:

129/02 ROMAN CATHOLIC BISHOP FINANCE AND REAL ESTATE OFFICE 153 ASH ST MANCHESTER, NH 03104	131/08-1 LAURA GATCHELL 1A CEDARBROOK AVE ROCHESTER, NH 03867 4653/128 (5/8/19)	131/08-2 KATHRYN SOUSA 18 CEDARBROOK AVE ROCHESTER, NH 03867 2965/618 (3/30/2004)	131/08-3 ANNA & ROBERT 1C CEDARBROOK AVE ROCHESTER, NH 03867 4548/299 (1/31/18)	131/08-4 AMY SCHAEFFER 10 CEDARBROOK AVE ROCHESTER, NH 03867 4367/484 (5/26/16)	131/08-5 NATHANIEL PRIEBE 1E CEDARBROOK AVE ROCHESTER, NH 03867 4655/795 (5/19/19)	131/08-6 DANIEL PETTIS 1F CEDARBROOK AVE ROCHESTER, NH 03867 4658/411 (5/30/19)	131/08-7 AMANDA LAMBERT 1G CEDARBROOK AVE ROCHESTER, NH 03867 3831/316 (3/27/08)	131/08-8 CAROLINE LEWIS 1H CEDARBROOK AVE ROCHESTER, NH 03867 4597/717 (8/30/18)	131/08-9 STEPHEN & PATRICIA TALOR 2A CEDARBROOK AVE ROCHESTER, NH 03867 2392/538 (10/15/01)	131/08-10 BRIAN HEBERT 2B CEDARBROOK AVE ROCHESTER, NH 03867 3567/428 (8/23/07)	131/08-11 BUDI TANUDHARTHA 2C CEDARBROOK AVE ROCHESTER, NH 03867 4684/777 (6/19/19)	131/08-12 GEORGE GATCOMB 2D CEDARBROOK AVE ROCHESTER, NH 03867 3328/679 (1/28/06)	131/08-13 RAYMOND KING 2E CEDARBROOK AVE ROCHESTER, NH 03867 3474/0028 (12/18/08)	131/08-14 OAK BLUFF REALTY LLC 242 CENTRAL AVE DOVER, NH 03820 3953/549 (9/6/11)	131/08-15 SEAN JACKSON 24 CEDARBROOK AVE ROCHESTER, NH 03867 4581/644 (6/28/18)	131/08-16 LIZABETH HANSON 3B CEDARBROOK AVE DOVER, NH 03819 4457/435 (2/9/17)	131/08-17 ALICIA MANSON 3C CEDARBROOK AVE ROCHESTER, NH 03867 4623/411 (11/27/18)	131/08-18 EVANS FAMILY TRUST 3D CEDARBROOK AVE ROCHESTER, NH 03867 4757/589 (4/9/20)	131/08-19 JESSICA STENER 3E CEDARBROOK AVE ROCHESTER, NH 03867 4487/437 (6/22/17)	131/08-20 SEAN CONNORS 3F CEDARBROOK AVE ROCHESTER, NH 03867 4598/723 (8/27/18)	131/08-21 SRARH GAMBRONE 4A CEDARBROOK AVE ROCHESTER, NH 03867 3018/408 (6/20/04)	131/08-22 BRIAN MCCUADE 274 CEDAR ST SEBASTIAN, FL 32958 3911/711 (1/13/11)	131/08-23 KERRY DESAUTEL 4C CEDARBROOK AVE ROCHESTER, NH 03867 3935/932 (6/27/11)	131/08-24 PATRICK RILEY 4D CEDARBROOK AVE ROCHESTER, NH 03867 2400/678 (10/30/01)	131/08-25 PAULIE PRATT 4E CEDARBROOK AVE ROCHESTER, NH 03867 2916/48 (12/11/03)	131/08-26 TIMUR GAMIROV 4F CEDARBROOK AVE ROCHESTER, NH 03867 4296/903 (5/28/15)	131/08-27 HAYDEN GRACE KRISTY 5A CEDARBROOK AVE ROCHESTER, NH 03867 4684/777 (6/19/19)	131/08-28 MICHAEL WALSH 5B CEDARBROOK AVE ROCHESTER, NH 03867 4705/193 (10/30/19)	131/08-29 SANDRA FOURNIER 5C CEDARBROOK AVE ROCHESTER, NH 03867 3878/380 (10/27/10)	131/08-30 MICHAEL CROVETTI 5D CEDARBROOK AVE ROCHESTER, NH 03867 2942/181 (2/11/04)	131/08-31 OLD DOG PROPERTIES LLC 24 CEDARBROOK AVE DOVER, NH 03820 4581/644 (6/28/18)	131/08-32 LIZABETH HANSON 235 LONG POND ROAD DANVILLE, NH 03819 3719/769 (3/10/09)	131/08-33 DEBRA WELCH 5A CEDARBROOK AVE ROCHESTER, NH 03867	131/08-34 JOSEPH ZUROMSKIS 5B CEDARBROOK AVE ROCHESTER, NH 03867 2110/732 (5/26/1999)	131/08-35 ONGGOWARISTO 5C CEDARBROOK AVE ROCHESTER, NH 03867 4312/136 (7/24/15)	131/08-36 JOSHUA SWONGER 5D CEDARBROOK AVE ROCHESTER, NH 03867 4956/1035 (9/21/21)	131/08-37 LINDSEY NICKLESS 5E CEDARBROOK AVE ROCHESTER, NH 03867 4814/928 (10/1/20)	131/08-38 LOUISE BOUCHER 5F CEDARBROOK AVE ROCHESTER, NH 03867 1977/283 (1/11/1998)	131/08-39 ERIN FERLAND 5G CEDARBROOK AVE ROCHESTER, NH 03867 4963/670 (10/5/21)	131/08-40 ROSEMARY GARY 5H CEDARBROOK AVE ROCHESTER, NH 03867 4541/660 (1/4/18)	131/08-41 BRANDON MAINS 5I CEDARBROOK AVE ROCHESTER, NH 03867 4629/242 (1/10/19)	131/08-42 IOLA FOREMAN 5J CEDARBROOK AVE ROCHESTER, NH 03867 4598/155 (8/30/18)	131/08-43 MELANIE HOLT 5K CEDARBROOK AVE ROCHESTER, NH 03867 4684/777 (6/19/19)	131/08-44 ALEXANDRA WICKMAN 5L CEDARBROOK AVE ROCHESTER, NH 03867 3878/380 (10/27/10)	131/08-45 KAREN BAILEY 5M CEDARBROOK AVE ROCHESTER, NH 03867 4792/125 (5/7/20)	131/08-46 MICHAEL CROVETTI 5N CEDARBROOK AVE ROCHESTER, NH 03867 4715/120 (12/2/19)	131/08-47 PHILIP LANG 5O CEDARBROOK AVE ROCHESTER, NH 03867 4581/644 (6/28/18)	131/08-48 ROBIN LORD 5P CEDARBROOK AVE ELIOT, MAINE 03903 4923/182 (6/22/21)	131/08-49 MARISSA CORBIN 5Q CEDARBROOK AVE ROCHESTER, NH 03867 4645/275 (4/3/19)	131/08-50 JUSTIN MANTUFFEL 5R CEDARBROOK AVE ROCHESTER, NH 03867 3522/214 (4/2/07)	131/08-51 JEFFREY BOOMER 5S CEDARBROOK AVE ROCHESTER, NH 03867 4576/729 (6/17/18)	131/08-52 KENNETH MAUSER 5T CEDARBROOK AVE ROCHESTER, NH 03867 3935/182 (6/28/11)	131/08-53 HOWARD WOODBURY 5U CEDARBROOK AVE ROCHESTER, NH 03867 3165/820 (3/31/05)	131/08-54 JAMES SAULNIER 5V CEDARBROOK AVE ROCHESTER, NH 03867 4579/933 (6/28/16)	131/08-55 ALISON JESSEMAN 5W CEDARBROOK AVE ROCHESTER, NH 03867 4363/989 (3/6/16)	131/08-56 CHEN YIRU 5X CEDARBROOK AVE ROCHESTER, NH 03867 4541/660 (1/4/18)	131/08-57 UNWAMEY ESPERANZA 5Y CEDARBROOK AVE ROCHESTER, NH 03867 4960/191 (9/23/21)	131/08-58 DANIEL DEGRANDPRE 5Z CEDARBROOK AVE ROCHESTER, NH 03867 4658/850 (5/29/19)	131/08-59 RALPH STILLINGS 5AA CEDARBROOK AVE ROCHESTER, NH 03867 4525/479 (10/28/17)	131/08-60 DENISE SELFE 5AB CEDARBROOK AVE ROCHESTER, NH 03867 2215/280 (4/16/2000)	131/08-61 RICHARD DUSETT 5AC CEDARBROOK AVE ROCHESTER, NH 03867 1304/258 (4/15/1987)	131/08-62 JOHN COLECKA 5AD CEDARBROOK AVE ROCHESTER, NH 03867 4792/125 (5/7/20)	131/08-63 TARA CANFIELD 5AE CEDARBROOK AVE ROCHESTER, NH 03867 2443/74 (1/10/02)	131/08-64 MOORE FAMILY REV. TRUST 5AF CEDARBROOK AVE ELIOT, MAINE 03903	131/08-65 LYNNE PARADIS 5AG CEDARBROOK AVE ROCHESTER, NH 03867 3120/280 (12/21/04)	131/08-66 GRANT REALTY TRUST ATTN: DAVID PAOLINI 5AH CEDARBROOK AVE DOVER, NH 03820 4178/531 (11/5/13)	131/08-67 LISA KIMBALL 5AI CEDARBROOK AVE ROCHESTER, NH 03867 4589/938 (6/2/18)	131/08-68 CHARLENE WHITEHOUSE 5AJ CEDARBROOK AVE ROCHESTER, NH 03867 2417/55 (11/25/01)	131/08-69 CHRISTINE SENECHAL 5AK CEDARBROOK AVE ROCHESTER, NH 03867 4428/130 (10/25/18)	131/08-70 STEPHEN SMALL 5AL CEDARBROOK AVE ROCHESTER, NH 03867 2543/142 (7/11/02)	131/08-71 SARAH BENTON 5AM CEDARBROOK AVE ROCHESTER, NH 03867 4573/310 (6/5/18)	131/08-72 ROBERT THOMAS 5AN CEDARBROOK AVE ROCHESTER, NH 03867 4680/675 (8/14/19)	131/08-73 SUSAN WELSH 5AO CEDARBROOK AVE ROCHESTER, NH 03867 3032/39 (7/2/04)	131/08-74 MELINDA RIGGER REV. TRUST 5AP CEDARBROOK AVE ROCHESTER, NH 03867 4304/153 (6/25/15)	131/08-75 CITY OF ROCHESTER 5AQ CEDARBROOK AVE ROCHESTER, NH 03867 3371/144 (4/10/06)	131/08-76 137/35-1 SSG LLC 5AR CEDARBROOK AVE 120 WASHINGTON ST SUITE 302 ROCHESTER, NH 03867 4605/408 (9/27/18)
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## SOIL NOTES:

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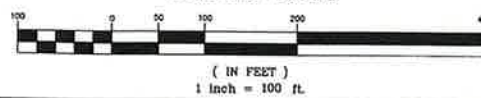
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HYDROLOGIC SOIL GROUP FROM KSAT VALUES FOR NEW HAMPSHIRE SOILS, SOCIETY OF SOIL SCIENTISTS OF NEW ENGLAND, SPECIAL PUBLICATION NO. 5, SEPTEMBER, 2009.

SSSS SYM.	SSSS MAP NAME	HISS SYM.	HYDRO. SOIL GRP.
263	BOXFORD (SOMEWHAT POORLY DRAINED)	453	C
38	ELDRIDGE LOAMY SAND	343	D
141	HOLLIS-ROCK OUTCROP-CHATFIELD	228	D
448	SCITUATE FINE SANDY LOAM	323	C
5	OLDORIENTS, LOAMY	762	N/A
538	SQUAMSCOTT LOAMY SAND	543	C

SLOPE PHASE:  
0-8% B 8-15% C 15-25% D  
25%+ E

## GRAPHIC SCALE



## CERTIFICATION:

I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN UNADJUSTED LINEAR ERROR OF CLOSURE THAT EXCEEDS BOTH THE MINIMUM OF 1:10,000 AS DEFINED IN SECTION 503.04 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES AND THE MINIMUM OF 1:15,000 AS DEFINED IN SECTION 4.2 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

THIS SURVEY CONFORMS TO A CATEGORY 1 CONDITION 1 SURVEY AS DEFINED IN SECTION 4.1 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

I CERTIFY THAT THIS SURVEY PLAN IS NOT A SUBDIVISION PURSUANT TO THIS TITLE 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.



DAVID M. COLLIER, LLS 892  
ON BEHALF OF JONES & BEACH ENGINEERS, INC.

DATE:

## PLAN REFERENCES:

1. "CEDARBROOK VILLAGE CONDOMINIUM DEVELOPMENT BOUNDARY SURVEY FOR ROUNHOUSE REALTY TRUST ROCHESTER, NH"; PREPARED BY BERRY CONST. CO., INC.; DATED APRIL 23, 1988; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P23-059.
2. "PLAN OF LAND PARCEL NO. 5 TAX ASSESSOR'S MAP 59 AND PARCEL NO. 2 TAX ASSESSOR'S MAP NO. 8 NEW HAMPSHIRE ROUTE 125 PREPARED FOR JEN-SCOT REALTY, INC.; PREPARED BY CIVILWORKS ENGINEERS AND SURVEYORS; DATED NOVEMBER 8, 1989; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P37A-028.
3. "PROPOSED SUBDIVISION AND LOT LINE REVISION FOR ROCHESTER HOUSING AUTHORITY COLD SPRING MANOR BROOK STREET ROCHESTER, NH"; PREPARED BY BERRY SURVEYING & ENGINEERING; DATED FEBRUARY 13, 2001; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P61-056.
4. "PROPOSED SUBDIVISION LAND OF THOMAS & JODI REMINGTON 15 OLD GONIC ROAD ROCHESTER, NH"; PREPARED BY BERRY SURVEYING & ENGINEERING; DATED AUGUST 17, 2005; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P81-0036.
5. "SUBDIVISION PLAN TAX MAP 131, LOT 26 WAVERLY ST./ OLD GONIC RD. ROCHESTER NH FOR DAYONNE CONSTRUCTION COMPANY, INC.; PREPARED BY NORWAY PLAINS ASSOCIATES, INC.; DATED JULY 25, 2006; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P86-0100.
6. "SUBDIVISION PLAN TAX MAP 131, LOT 57 STATE STREET & EMERSON COURT ROCHESTER NH FOR RUNNING WITH HAMMERS, LLC; PREPARED BY NORWAY PLAINS ASSOCIATES, INC.; DATED OCTOBER 17, 2007; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN P92-014.
7. "ROCHESTER HEIGHTS ROCHESTER, NH A.H. CHAPMAN LAND CO"; PREPARED BY E.H. SHEFFIELD; DATED JULY 1920; RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS AS PLAN #19 POCKET #10 FOLDER #3.

Design: JAC	Draft: LAZ	Date: 04/29/21
Checked: JAC	Scale: AS NOTED	Project No.: 21090
Drawing Name: 21090-PLAN.dwg		

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REV.	DATE	REVISION	BY
12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

Designed and Produced In NH

**J/B Jones & Beach Engineers, Inc.**

85 Portsmouth Ave.  
PO Box 218  
Stratham, NH 03885

Civil Engineering Services

603-772-4746  
FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	EXISTING CONDITIONS PLAN
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

## PROJECT PARCEL

CITY OF ROCHESTER

TAX MAP 131, LOT 10

## APPLICANT

GREEN AND COMPANY

11 LAFAYETTE ROAD

NORTH HAMPTON, NH 03862

## TOTAL LOT AREA

1,309,695 SQ. FT. ±

30.07 ACRES ±

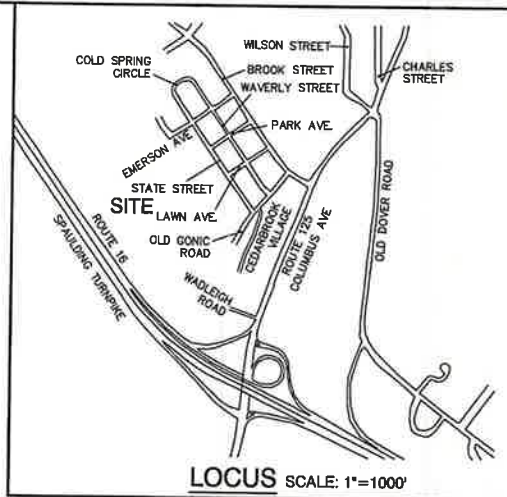
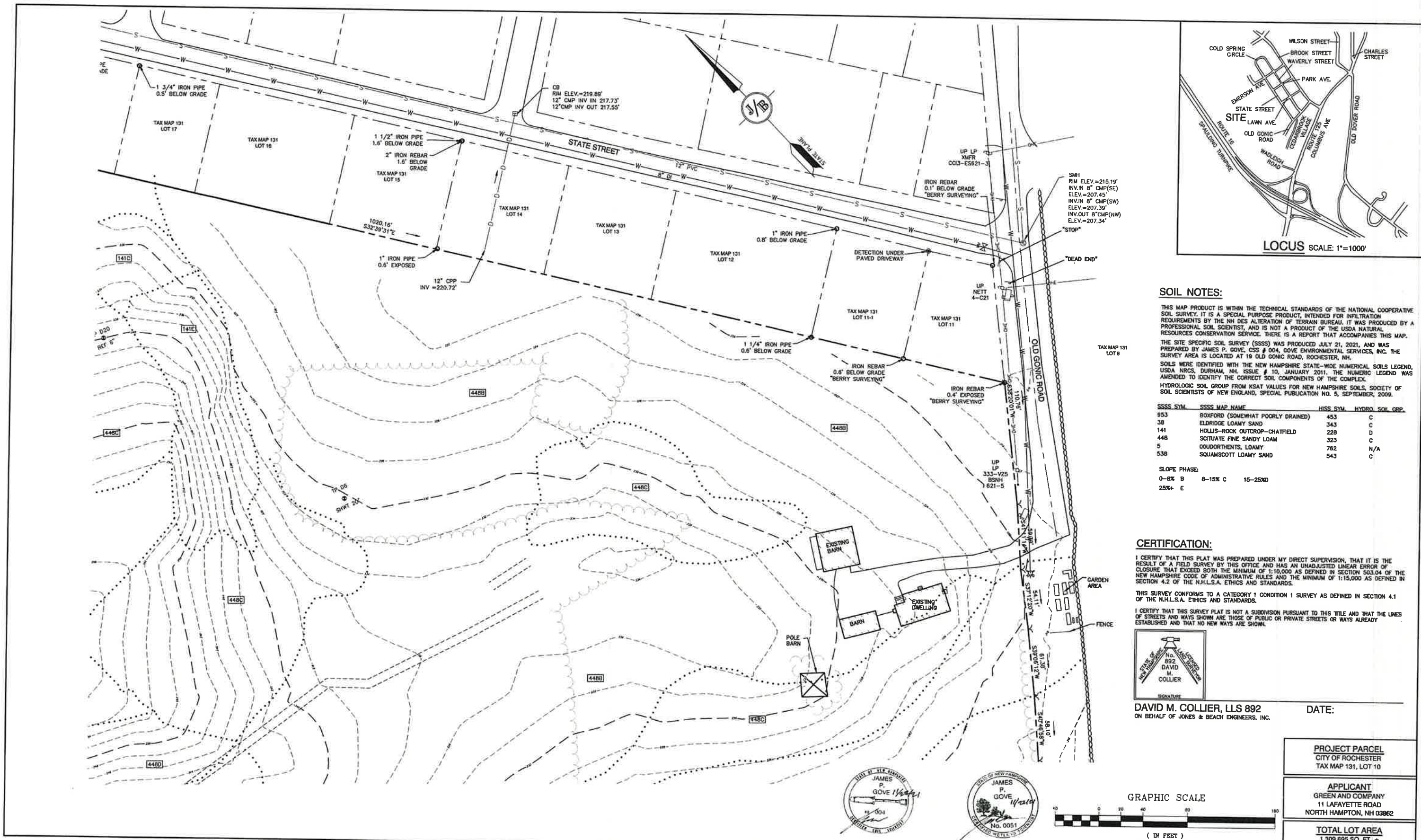
## DRAWING No.

OVR

SHEET 3 OF 48

JBE PROJECT NO. 21090





**SOIL NOTES:**

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SSSS SYM.	SSSS MAP NAME	HISS SYM.	HYDRO.	SOIL GRP.
953	BOXFORD (SOMEWHAT POORLY DRAINED)	453	C	
38	ELDRIDGE LOAMY SAND	343	C	
141	HOLLIS-ROCK OUTCROP-CHATFIELD	228	D	
448	SCITUATE FINE SANDY LOAM	323	C	
5	DOUDORIENTS, LOAMY	782	N/A	
538	SQUAMSCOTT LOAMY SAND	543	C	

**SLOPE PHASE:**

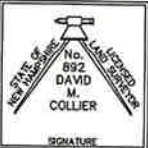
0-8% B    8-15% C    15-25% D  
25%+ E

**CERTIFICATION:**

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DAVID M. COLLIER, LLS 892  
ON BEHALF OF JONES & BEACH ENGINEERS, INC.

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

Design: JAC    Draft: LAZ    Date: 04/29/21  
Checked: JAC    Scale: AS NOTED    Project No.: 21090  
Drawing Name: 21090-PLAN.dwg

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12 10/13/22 REVISED PER TRG COMMENTS LAZ  
11 9/19/22 REVISED PER NHDES AOT COMMENTS LAZ  
10 9/8/22 REVISED PER CITY & NHDES AOT COMMENTS LAZ  
9 8/29/22 REVISED PER NHDES AOT COMMENTS LAZ  
8 8/3/22 REVISED PER NHDES SEWER COMMENTS LAZ

REV. DATE REVISION BY

**J/B Jones & Beach Engineers, Inc.**  
Civil Engineering Services  
85 Portsmouth Ave.    603-772-4746  
PO Box 219    FAX: 603-772-0227  
Stratham, NH 03885    E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **EXISTING CONDITIONS PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

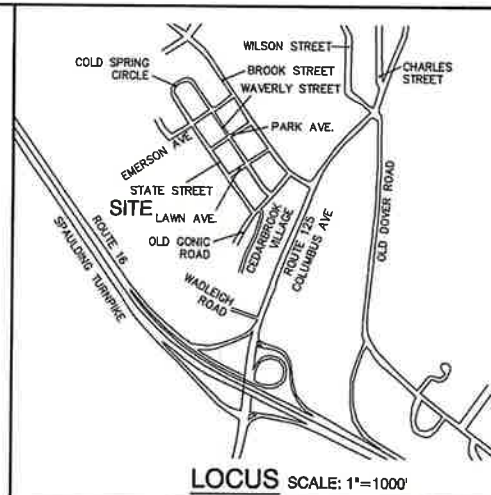
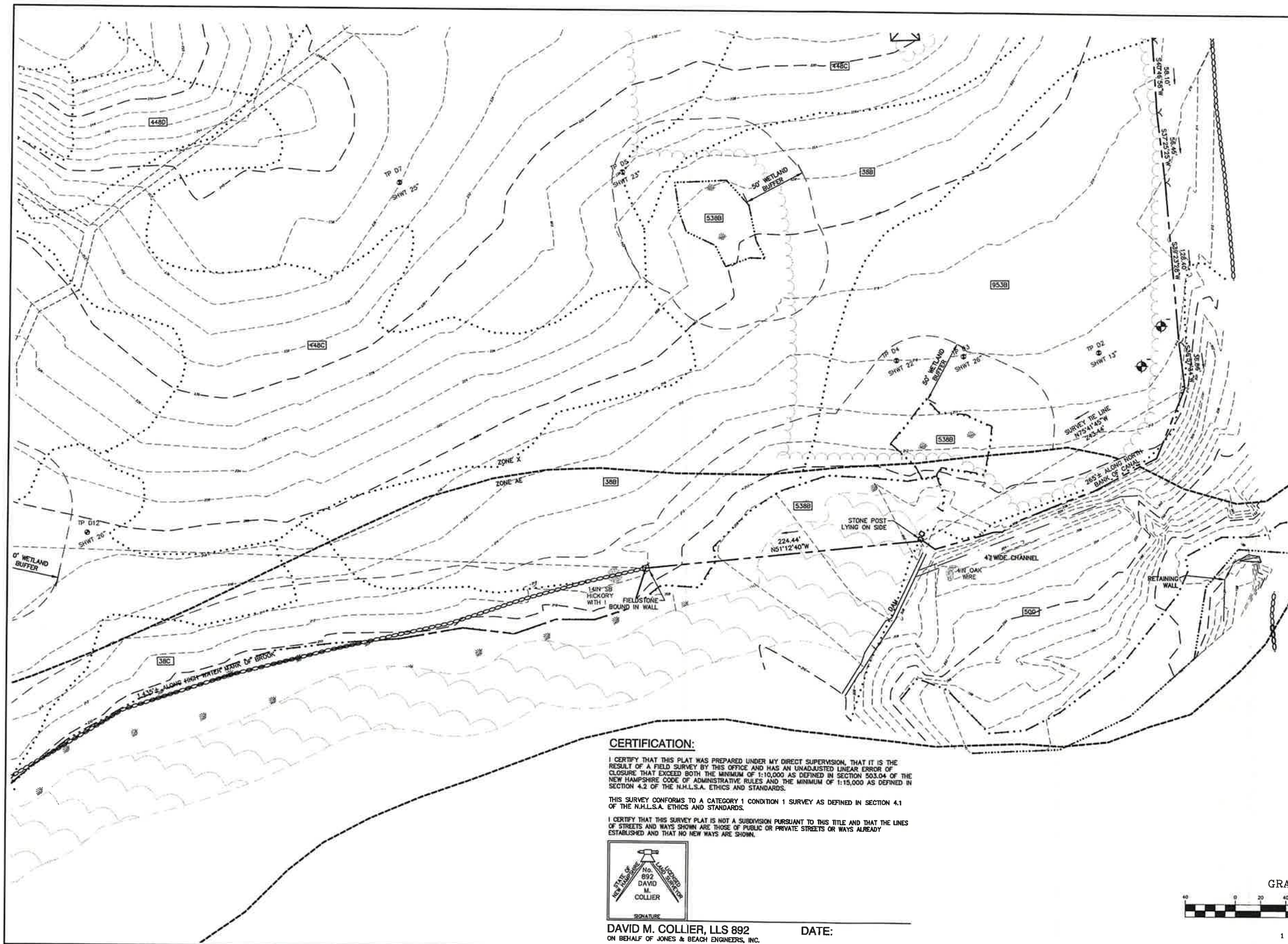
PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
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30.07 ACRES ±

DRAWING No.  
**C1**  
SHEET 4 OF 48  
JBE PROJECT NO. 21090





LOCUS SCALE: 1"=1000'

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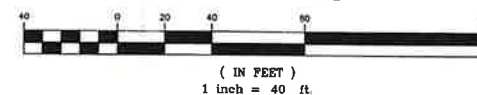
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DATE:

#### GRAPHIC SCALE



Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg  
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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
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11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

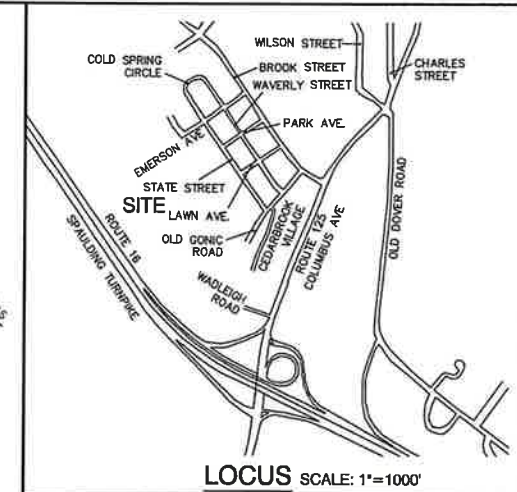
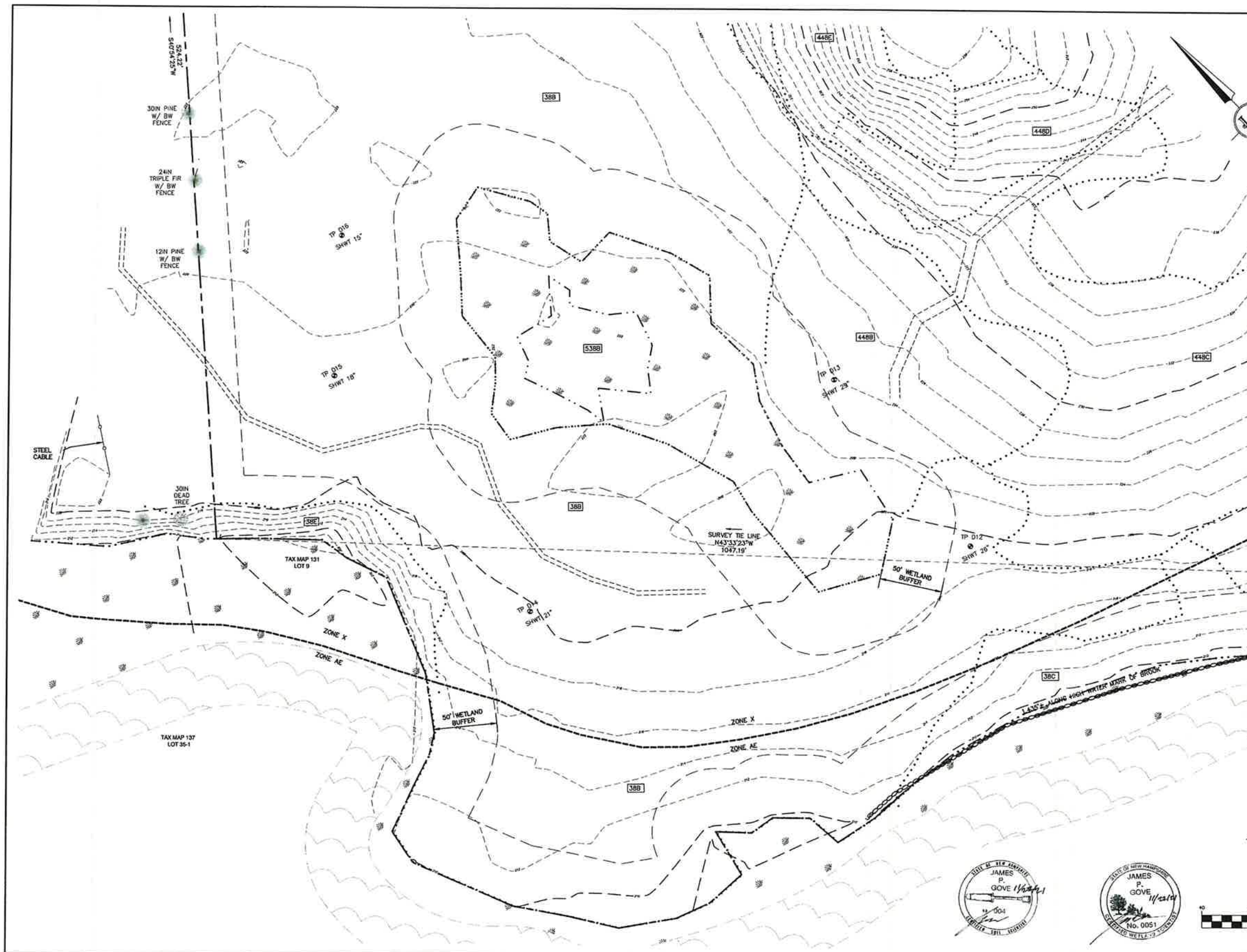
TOTAL LOT AREA  
1,309,895 SQ. FT. ±  
30.07 ACRES ±

DRAWING No.

**C2**

SHEET 5 OF 48  
JBE PROJECT NO. 21090





#### SOIL NOTES:

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR INFILTRATION REQUIREMENTS BY THE NH DES ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. THERE IS A REPORT THAT ACCOMPANIES THIS MAP. THE SITE SPECIFIC SOIL SURVEY (SSSS) WAS PRODUCED JULY 21, 2021, AND WAS PREPARED BY JAMES P. GOVE, CSS # 004, GOVE ENVIRONMENTAL SERVICES, INC. THE SURVEY AREA IS LOCATED AT 19 OLD GONIC ROAD, ROCHESTER, NH. SOILS WERE IDENTIFIED WITH THE NEW HAMPSHIRE STATE-WIDE NUMERICAL SOILS LEGEND, USDA NRCS, DURHAM, NH, ISSUE # 10, JANUARY 2011. THE NUMERIC LEGEND WAS AMENDED TO IDENTIFY THE CORRECT SOIL COMPONENTS OF THE COMPLEX. HYDROLOGIC SOIL GROUP FROM KSAT VALUES FOR NEW HAMPSHIRE SOILS, SOCIETY OF SOIL SCIENTISTS OF NEW ENGLAND, SPECIAL PUBLICATION NO. 5, SEPTEMBER, 2009.

SSSS SYM	SSSS MAP NAME	HISS SYM	HYDRO. SOIL GRP.
953	BOXFORD (SOMEWHAT POORLY DRAINED)	453	C
38	ELDRIDGE LOAMY SAND	343	C
141	HOLLIS-ROCK OUTCROP-CHATFIELD	228	D
448	SCITUATE FINE SANDY LOAM	323	C
5	OODORTHERTS, LOAMY	782	N/A
538	SQUAMSCOTT LOAMY SAND	543	C

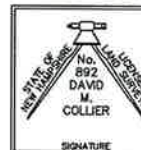
SLOPE PHASE:  
0-8% B 8-15% C 15-25% D  
25%+ E

#### CERTIFICATION:

I CERTIFY THAT THIS PLAT WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN UNADJUSTED LINEAR ERROR OF CLOSURE THAT EXCEEDS BOTH THE MINIMUM OF 1:10,000 AS DEFINED IN SECTION 503.04 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES AND THE MINIMUM OF 1:15,000 AS DEFINED IN SECTION 4.2 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

THIS SURVEY CONFORMS TO A CATEGORY 1 CONDITION 1 SURVEY AS DEFINED IN SECTION 4.1 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE 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.



DAVID M. COLLIER, LLS 892  
ON BEHALF OF JONES & BEACH ENGINEERS, INC.

DATE:

#### GRAPHIC SCALE



Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg  
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REV.	DATE	REVISION	BY
12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

**J/B Jones & Beach Engineers, Inc.**  
Designed and Produced in NH  
85 Portsmouth Ave. Civil Engineering Services 603-772-4746  
PO Box 219 Stratham, NH 03885 FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **EXISTING CONDITIONS PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

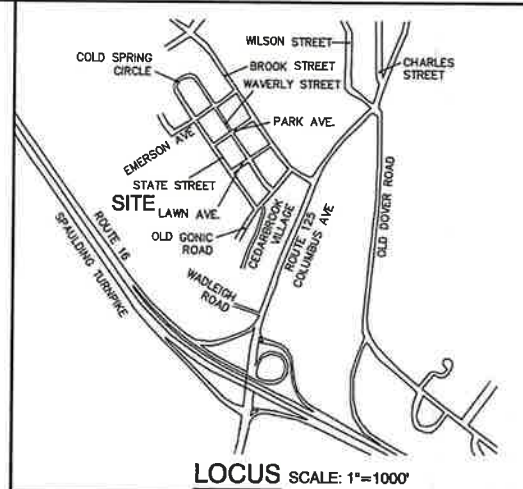
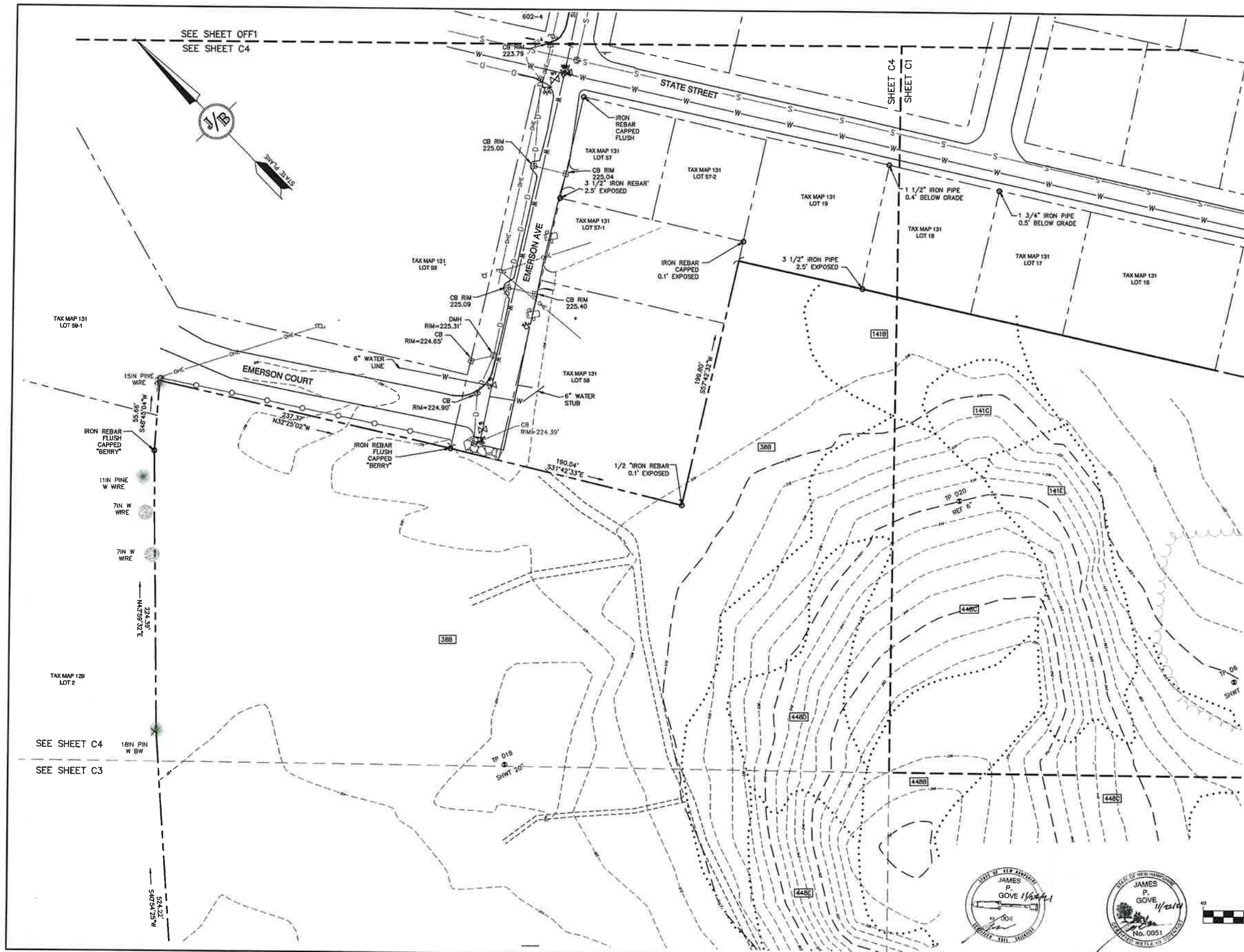
TOTAL LOT AREA  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

DRAWING No.

**C3**

SHEET 8 OF 48  
JBE PROJECT NO. 21090





# SOIL NOTES:

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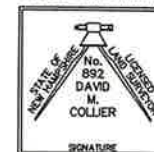
SLOPE PHASE:  
0-8% B 8-15% C 15-25% D  
25%+ E

# CERTIFICATION:

I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE, AND HAS AN UNADJUSTED LINEAR ERROR OF CLOSURE THAT EXCEEDS BOTH THE MINIMUM OF 1:10,000 AS DEFINED IN SECTION 503.04 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES AND THE MINIMUM OF 1:15,000 AS DEFINED IN SECTION 4.2 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

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DAVID M. COLLIER, LLS 892  
ON BEHALF OF JONES & BEACH ENGINEERS, INC.

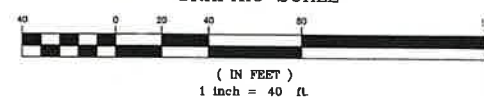
DATE:

PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,306,695 SQ. FT. ±  
30.07 ACRES ±

GRAPHIC SCALE



Design: JAC	Draft: LAZ	Date: 04/29/21
Checked: JAC	Scale: AS NOTED	Project No.: 21090
Drawing Name: 21090-PLAN.dwg		

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11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
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9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

Designed and Produced in NH

**J/B Jones & Beach Engineers, Inc.**

85 Portsmouth Ave. PO Box 219 Stratham, NH 03885

Civil Engineering Services

603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	EXISTING CONDITIONS PLAN
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.

**C4**

SHEET 7 OF 48  
JBE PROJECT NO. 21090





#### DEMOLITION NOTES:

1. THIS PLAN IS INTENDED TO PROVIDE MINIMUM GUIDELINES FOR SITE DEMOLITION. IT SHOULD BE NOTED THAT ALL MANMADE FEATURES, PAVEMENT, SIGNS, POLES, CURBING, CONCRETE WALKS, UTILITIES, ETC., SHALL BE REMOVED AS NECESSARY TO CONSTRUCT WORK, UNLESS OTHERWISE NOTED TO REMAIN. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCIES FROM DATA AS SHOWN ON DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
2. A TEMPORARY CULVERT AND ROADBED SHALL BE IN PLACE PRIOR TO ANY USE OF A WETLAND CROSSING.
3. WETLAND IMPACTS SHALL NOT OCCUR UNTIL ALL PERMITS HAVE BEEN ACQUIRED AND IMPACT MITIGATION REQUIREMENTS HAVE BEEN SATISFIED.
4. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED. CLEARING LIMITS ARE THE EDGE OF THE PROPERTY AND THE LIMITS OF WORK.
5. ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED TO REMAIN, SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES. ANY BURNING ON-SITE SHALL BE SUBJECT TO LOCAL ORDINANCES.
6. ALL EXISTING PAVED SURFACES WITHIN THE LIMITS OF WORK THAT ARE TO REMAIN SHALL BE RECLAIMED TO MINIMUM DEPTH OF 12" AND REGRADED AS SHOWN ON THE GRADING AND DRAINAGE PLAN. RECLAIMED ASPHALT SHALL CONFORM TO STATE SPECIFICATIONS. PRIOR TO REMOVAL, PAVEMENT SHALL BE SAWCUT AT ALL ENTRANCES AND LIMITS OF REMOVAL.
7. ALL EXISTING GRANITE CURBING TO BE REMOVED SHALL BE STOCKPILED IN AN AREA TO BE DESIGNATED BY THE OWNER OR OWNER'S REPRESENTATIVE. THE OWNER SHALL INSPECT GRANITE CURBING TO BE RESET AND APPROVE LOCATION OF RESET CURBING. THE CONTRACTOR SHALL NOT INSTALL USED CURBING AT ANY ENTRANCE LOCATIONS.
8. ALL EXISTING UTILITIES SHALL BE TERMINATED AT THE PROPERTY LINE, UNLESS OTHERWISE NOTED ON THE PLANS, IN CONFORMANCE WITH LOCAL, STATE AND UTILITY COMPANY STANDARDS, SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES PRIOR TO THE START OF WORK.
9. EXISTING WATERLINES AND HYDRANTS TO BE REMOVED SHALL BE CAPPED AT EXISTING WATERMAIN.
10. EXISTING GAS SERVICE LINES ARE TO BE REMOVED ON-SITE UP TO EXISTING GASMAIN LINES OR VALVES.
11. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONTAMINATED MATERIAL LOCATED IN THE AREA OF EXISTING LEACHFIELDS IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
12. ALL CURBING, CONCRETE, PAVEMENT, BUILDINGS AND SUBBASE MATERIALS LOCATED WITHIN PROPOSED LANDSCAPED AREAS SHALL BE REMOVED AND REPLACED WITH LOAM MATERIALS SUITABLE FOR LANDSCAPING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. (SEE ALSO LANDSCAPE PLAN).
13. SEE LANDSCAPE PLAN FOR "TREES TO BE SAVED" AND DETAILS ASSOCIATED WITH LANDSCAPED AREAS.
14. THE CONTRACTOR SHALL OBTAIN TREE CLEARING PERMIT FROM LOCAL AND STATE AUTHORITIES PRIOR TO START OF CONSTRUCTION (IF REQUIRED).
15. CONTRACTOR SHALL HAVE THE OPTION TO REMOVE DRAINAGE/SEWER STRUCTURES, OR REMOVE MANHOLE FRAME AND GRATE/COVER TO A MINIMUM OF 36" BELOW FINISH GRADE, FRACTURE BOTTOM AND FILL WITH COMPACTED BORROW.
16. IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES IN ALL AREAS WHERE SILT FENCING IS NOT REQUIRED.
17. EXISTING SANITARY SEWER LINE AND STRUCTURES LOCATED WITHIN THE EXISTING SEWER EASEMENTS SHALL BE MAINTAINED OR MODIFIED AS NOTED ON PLANS. SEWER LINES SHALL BE DISCONNECTED IN ACCORDANCE WITH LOCAL STANDARDS AND REGULATIONS.
18. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND ANY EARTH MOVING OPERATIONS. SILT FENCE SHALL BE INSTALLED AT THE LIMITS OF IMPACT AREAS ACCORDING TO THE DETAILS SHOWN ON SHEET E1.
19. EXCAVATED MATERIALS WILL BE PLACED WITHIN UPLAND AREAS AS FILL MATERIAL OR HAULED OFF-SITE FOR DISPOSAL IN AN APPROPRIATE UPLAND LOCATION.

PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg

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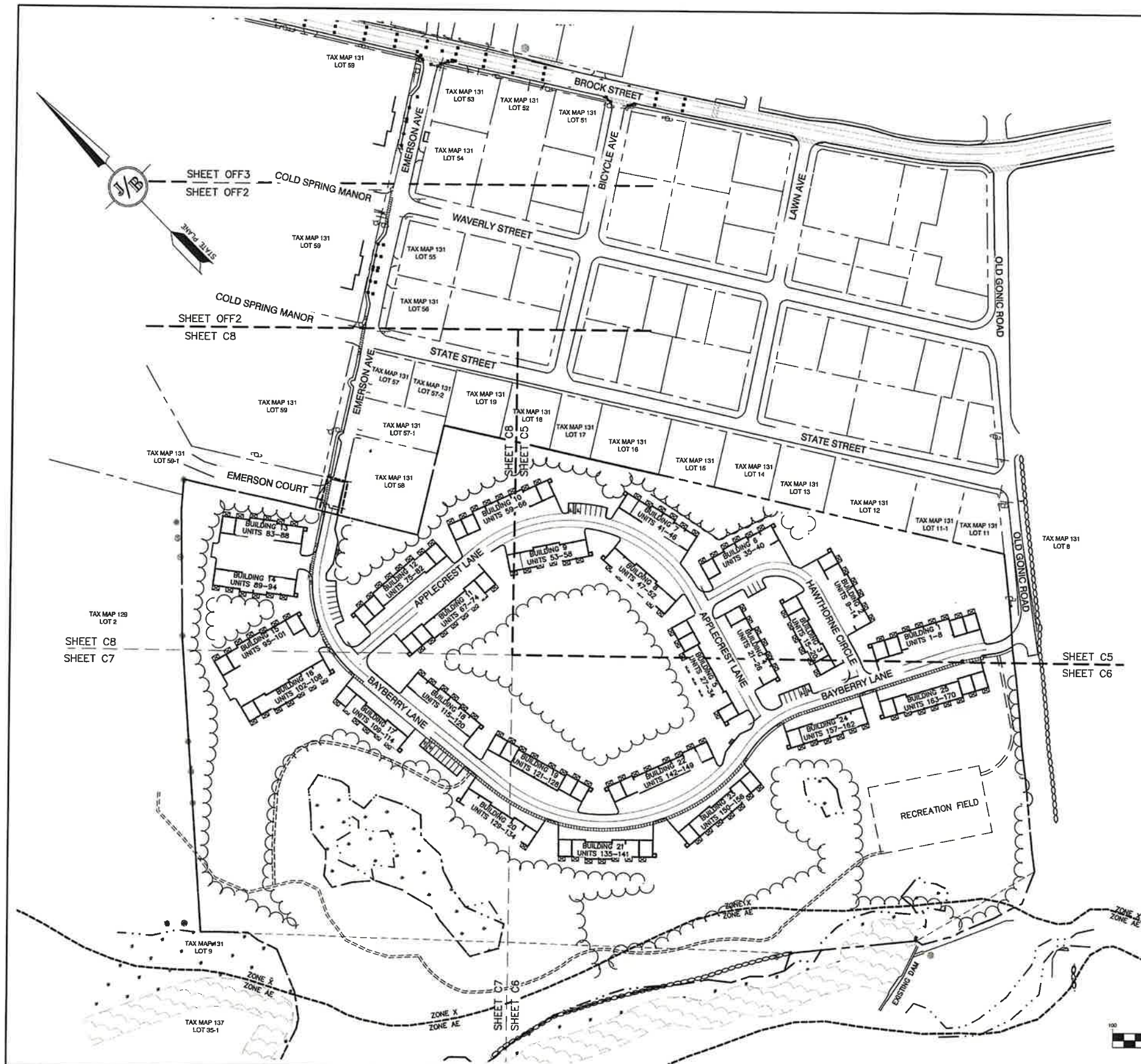
12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES Aot COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES Aot COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES Aot COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ
REV.	DATE	REVISION	BY

**J/B Jones & Beach Engineers, Inc.**  
Designed and Produced in NH  
Civil Engineering Services  
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885  
603-772-4746 FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **DEMOLITION PLAN**  
Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**DM-1**  
SHEET 8 OF 48  
JBE PROJECT NO. 21090

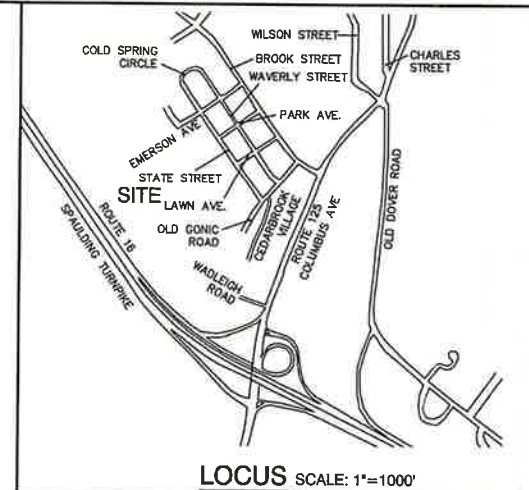




**SITE NOTES:**

- THE INTENT OF THIS PLAN IS TO SHOW A 170-UNIT TOWNHOUSE DEVELOPMENT ON THE SUBJECT PARCEL. ALL UNITS TO HAVE 3 BEDROOMS. PROJECT TO BE SERVICED BY CITY WATER AND SEWER AND UNDERGROUND UTILITIES.
- ZONING DISTRICT: RESIDENTIAL-2. USE: FIVE-OR MORE FAMILY  
LOT AREA MINIMUM = 30,000 SF  
LOT FRONTAGE MINIMUM = 100'  
BUILDING SETBACKS (MINIMUM):  
FRONT SETBACK = 15'  
SIDE SETBACK = 10'  
REAR SETBACK = 25'  
WETLAND SETBACK = 50'  
MAX. BUILDING HEIGHT = 35'  
MAX. BUILDING FOOTPRINT = 30%  
MAX. LOT COVERAGE = 60%  
MIN. LOT AREA / DWELLING UNIT = 7,500 S.F.  
BUILDING FOOTPRINT PROPOSED = 122,400 S.F. = 9.3% OF SITE  
TOTAL LOT COVERAGE PROPOSED = 310,478 S.F. = 23.7% OF SITE
- DENSITY CALCULATION:  
TOTAL LOT AREA = 1,309,695 S.F. / 7,500 S.F. = 175 UNITS ALLOWED  
170 UNITS PROVIDED
- LOT COVERAGE CALCULATIONS  

	AREA (SF)	AREA (AC)	PERCENT OF SITE
TOTAL AREA	1,309,695 SF	30.07 AC	
BUILDING W/ OVERHANG AND DECKS	148,840 SF	3.4 AC	11.2%
PAVEMENT	188,078 SF	4.3 AC	14.4%
TOTAL LOT COVERAGE	344,918 SF	7.7 AC	25.6%
LANDSCAPING OR GRASS	332,984 SF	7.6 AC	25.4%
POND AREA	42,215 SF	1.0 AC	3.2%
TOTAL DISTURBED AREA	710,117 SF	16.3 AC	54.2%
WETLAND UNDISTURBED UPLAND	58,284 SF	1.3 AC	4.5%
541,284 SF	12.4 AC	41.3%	
TOTAL UNDISTURBED AREA	599,578 SF	13.6 AC	45.8%
- PARKING CALCULATIONS  
ALL UNITS TO HAVE 2 GARAGE SPACES AND 2 SPACES IN FRONT OF UNIT PLUS 34 VISITOR SPACES INCLUDING 6 HANDICAP SPACES.  
TOTAL PARKING ON SITE = 730 SPACES
- ALL CONSTRUCTION SHALL CONFORM TO CITY STANDARDS AND REGULATIONS, AND NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WHICHEVER IS MORE STRINGENT.
- THE SUBJECT PARCEL IS PARTIALLY LOCATED WITHIN AN AREA HAVING A ZONE AE DESIGNATION BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 33017C02110, WITH EFFECTIVE DATE OF MAY 17, 2005 FOR COMMUNITY PANEL NO. 211 OF 405, IN ROCKINGHAM COUNTY, STATE OF NEW HAMPSHIRE, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
- LANDOWNERS ARE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING PERMITTING REQUIRED UNDER THESE REGULATIONS.
- ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.), THIS DOCUMENT IS TO BE KEPT ONSITE AT ALL TIMES AND UPDATED AS REQUIRED.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, ARCHITECT AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, FEES AND BONDS.
- ALL PROPOSED SIGNAGE SHALL CONFORM WITH THE CITY ZONING REGULATIONS, UNLESS A VARIANCE IS OTHERWISE REQUESTED.
- ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND NHDOT STANDARDS AND SPECIFICATIONS (NON-REFLECTORIZED PAVEMENT MARKINGS), UNLESS OTHERWISE NOTED.
- ALL PARKING STALLS SHALL BE SEPARATED USING 4" WIDE SOLID STRIPES. STRIPING SHALL HAVE TWO COATS OF PAINT, ALKID BASIN SYNTHETIC RESIN, FEDERAL SPECIFICATION TIP-115 TYPE 1, IN A COLOR OF WHITE.
- ALL STOP BARS SHALL BE 18" IN WIDTH IN A COLOR OF WHITE; ALL TRAFFIC ARROWS SHALL BE PAINTED IN A COLOR OF WHITE.
- ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND STRUCTURAL PLANS PROVIDED BY THE OWNER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION. BUILDING DIMENSIONS AND AREAS TO BE TO OUTSIDE OF MASONRY, UNLESS OTHERWISE NOTED.
- SNOW TO BE STORED AT EDGE OF PAVEMENT AND IN AREAS SHOWN ON THE PLANS, OR TRUCKED OFFSITE TO AN APPROVED SNOW DUMPING LOCATION.
- ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
- TRASH TO BE HANDLED WITH TOTES AT EACH UNIT. TRASH TO BE PICKED UP BY A PRIVATE HAULER.
- STATE PERMITS REQUIRED:  
NHDES ALTERATION OF TERRAIN PERMIT #Aot-2230 DATED SEPTEMBER 21, 2022.  
NHDES SEWER EXTENSION PERMIT  
NHDES DRINKING WATER PERMIT
- EXCAVATION PERMITS ARE REQUIRED FOR ANY WORK PERFORMED WITHIN THE CITY RIGHT-OF-WAY.
- A NEIGHBORHOOD MEETING IS REQUIRED PRIOR TO ANY BLASTING ON SITE.
- ON-SITE ROADS, INFRASTRUCTURE AND AMENITIES SHALL BE PRIVATELY MAINTAINED.
- PICNIC TABLES ARE TO BE PLACED WITHIN RECREATION AREA.



GRAPHIC SCALE

( IN FEET )  
1 inch = 100 ft

Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg  
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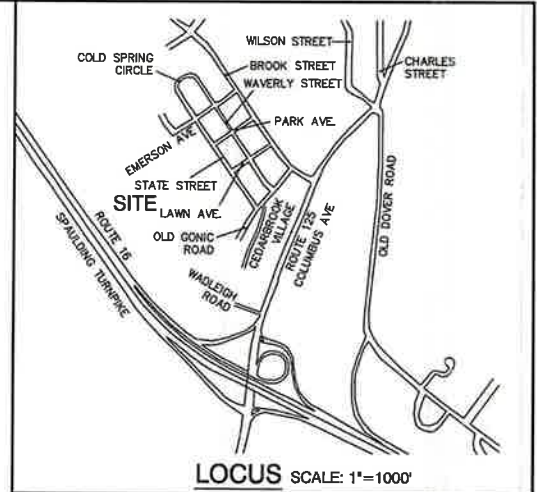
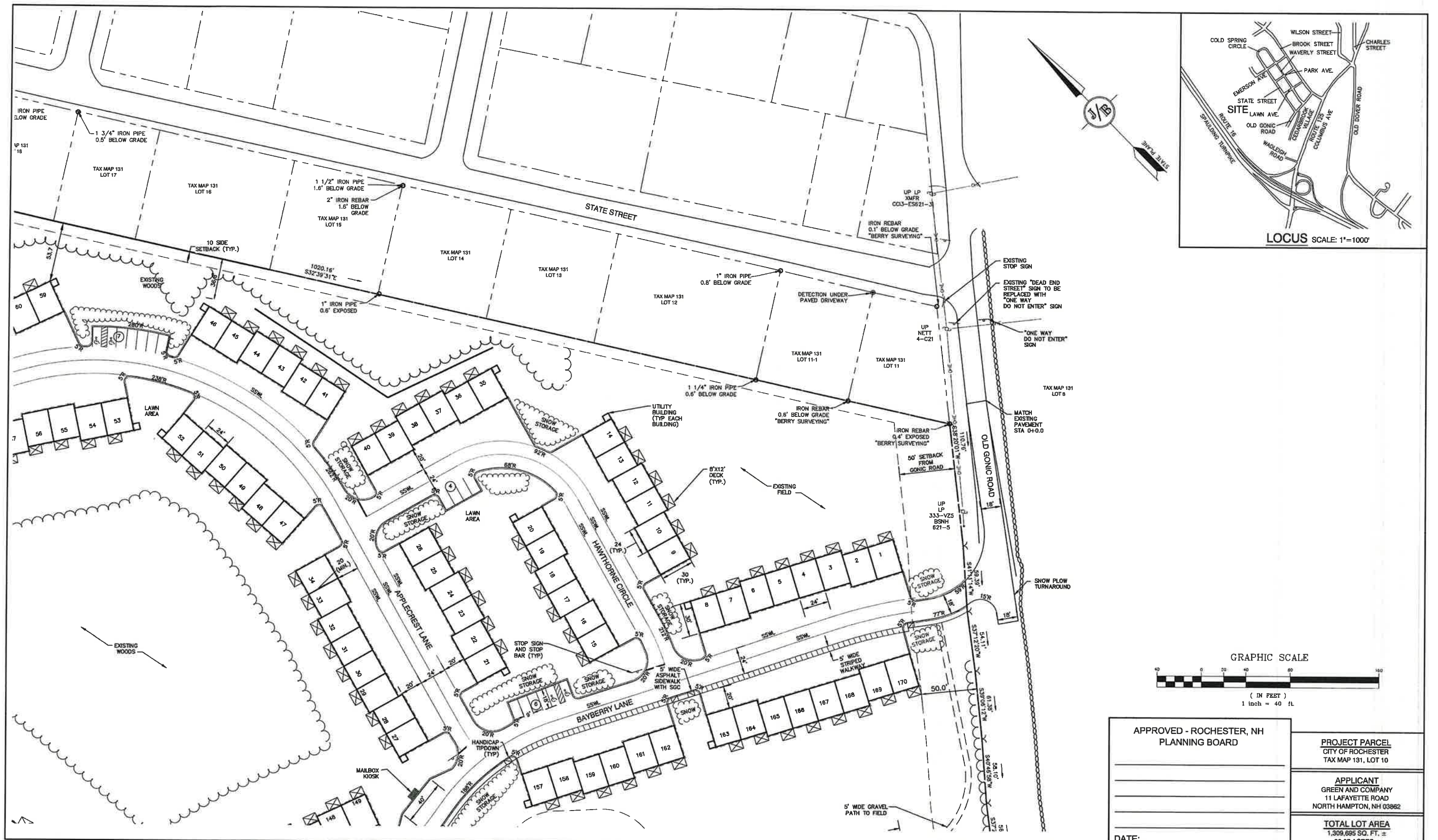
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Civil Engineering Services  
603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **OVERVIEW SITE PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

<b>PROJECT PARCEL</b> CITY OF ROCHESTER TAX MAP 131, LOT 10
<b>APPLICANT</b> GREEN AND COMPANY 11 LAFAYETTE ROAD NORTH HAMPTON, NH 03862
<b>TOTAL LOT AREA</b> 1,309,695 SQ. FT. ± 30.07 ACRES ±
<b>APPROVED - ROCHESTER, NH</b> <b>PLANNING BOARD</b>     <b>DATE:</b> _____

DRAWING No.  
**OVRS**  
SHEET 9 OF 48  
JBE PROJECT NO. 21090





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 Checked: JAC Scale: AS NOTED Project No.: 21090  
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10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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 Designed and Produced in NH  
 85 Portsmouth Ave. PO Box 219 Stratham, NH 03885  
 Civil Engineering Services  
 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **SITE PLAN**  
 Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
 Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

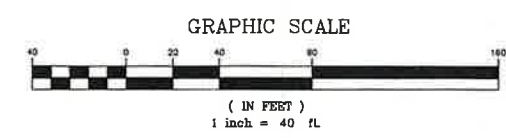
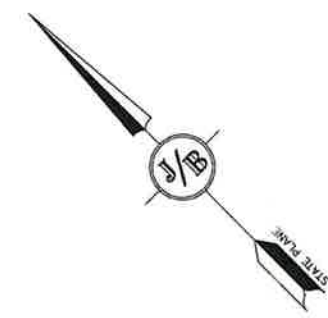
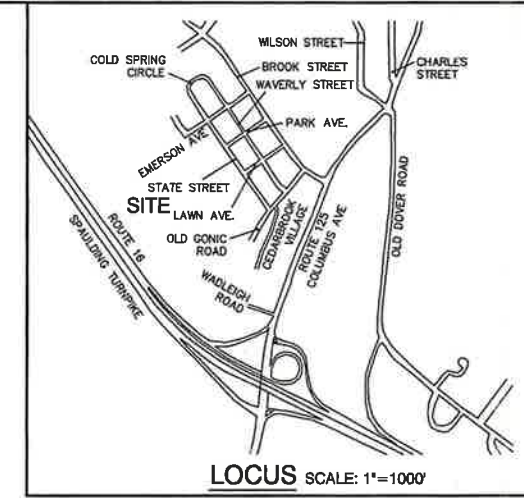
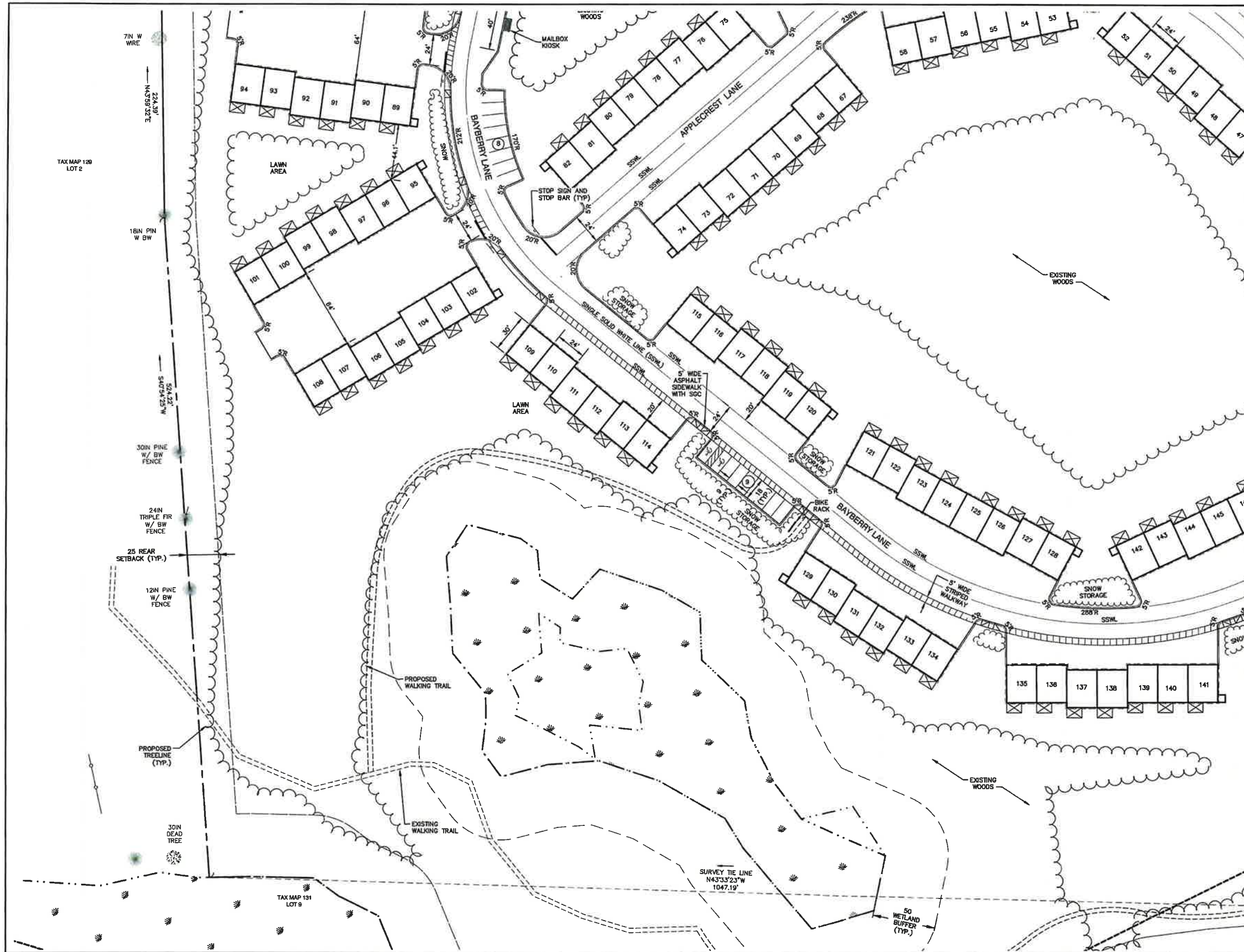
DRAWING No. **C5**  
 SHEET 10 OF 48  
 JBE PROJECT NO. 21090

APPROVED - ROCHESTER, NH  
 PLANNING BOARD  
 PROJECT PARCEL  
 CITY OF ROCHESTER  
 TAX MAP 131, LOT 10  
 APPLICANT  
 GREEN AND COMPANY  
 11 LAFAYETTE ROAD  
 NORTH HAMPTON, NH 03862  
 TOTAL LOT AREA  
 1,309,695 SQ. FT. ±  
 30.07 ACRES ±









APPROVED - ROCHESTER, NH PLANNING BOARD		PROJECT PARCEL CITY OF ROCHESTER TAX MAP 131, LOT 10
APPLICANT GREEN AND COMPANY 11 LAFAYETTE ROAD NORTH HAMPTON, NH 03862		TOTAL LOT AREA 1,309,695 SQ. FT. ± 30.07 ACRES ±
DATE:		

Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg  
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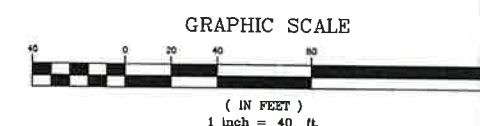
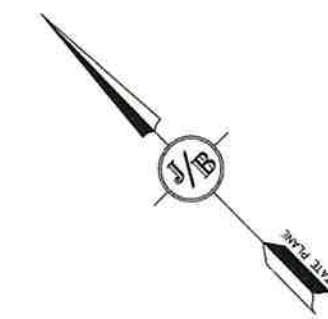
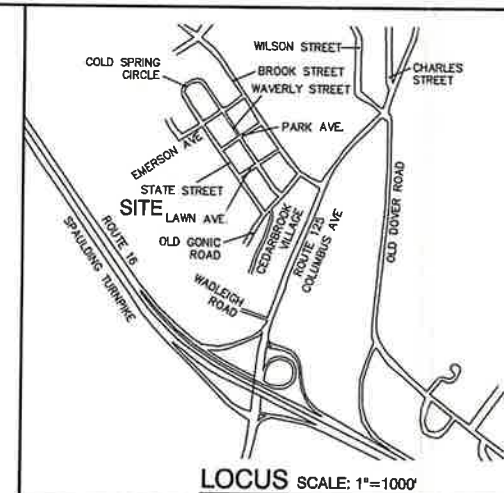
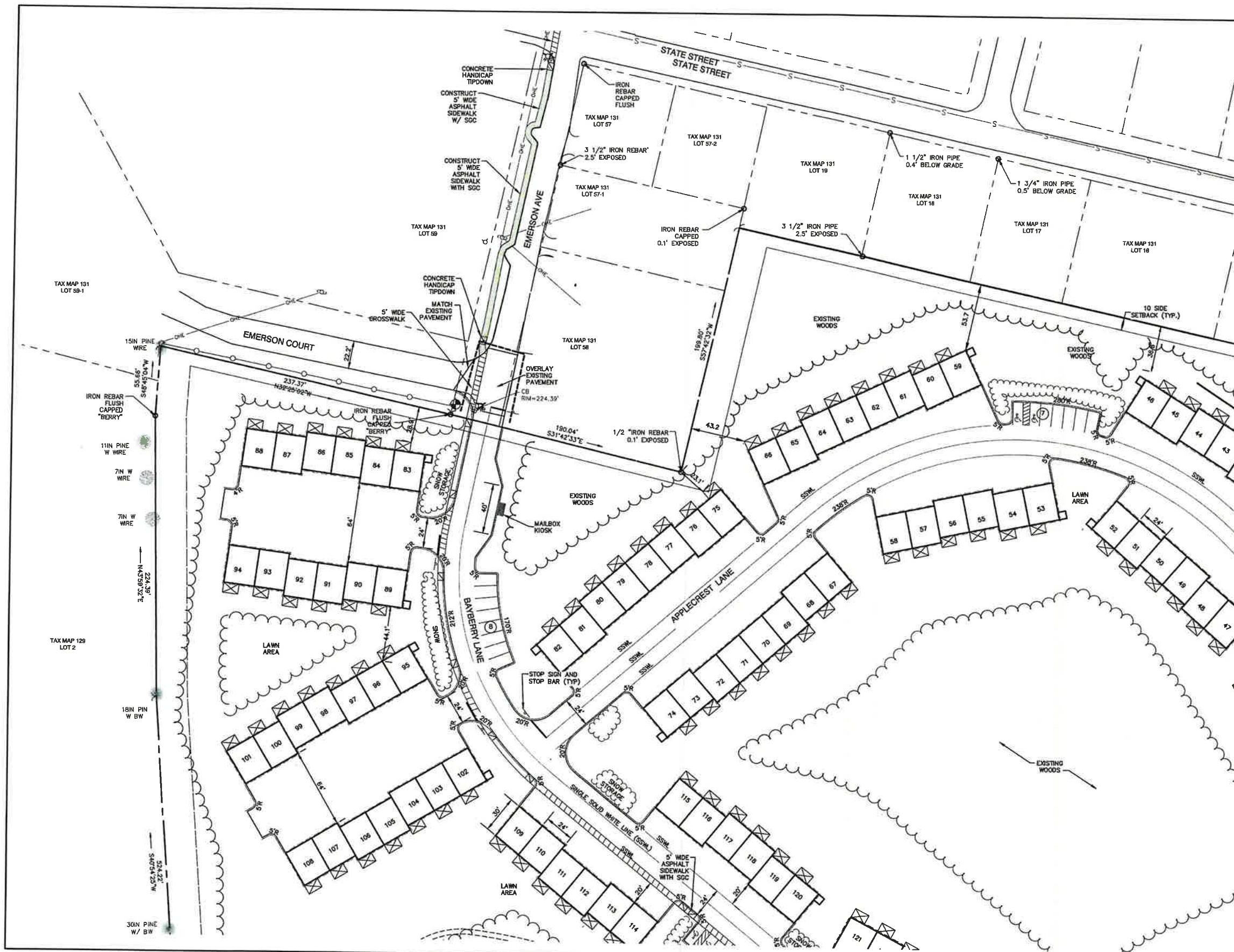
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Stratham, NH 03885  
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FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **SITE PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**C7**  
SHEET 12 OF 49  
JBE PROJECT NO. 21090





APPROVED - ROCHESTER, NH PLANNING BOARD	
PROJECT PARCEL CITY OF ROCHESTER TAX MAP 131, LOT 10	
APPLICANT GREEN AND COMPANY 11 LAFAYETTE ROAD NORTH HAMPTON, NH 03862	
TOTAL LOT AREA 1,308,695 SQ. FT. ± 30.07 ACRES ±	
DATE: _____	

Design: JAC Draft: LAZ Date: 04/29/21  
 Checked: JAC Scale: AS NOTED Project No.: 21090  
 Drawing Name: 21090-PLAN.dwg  
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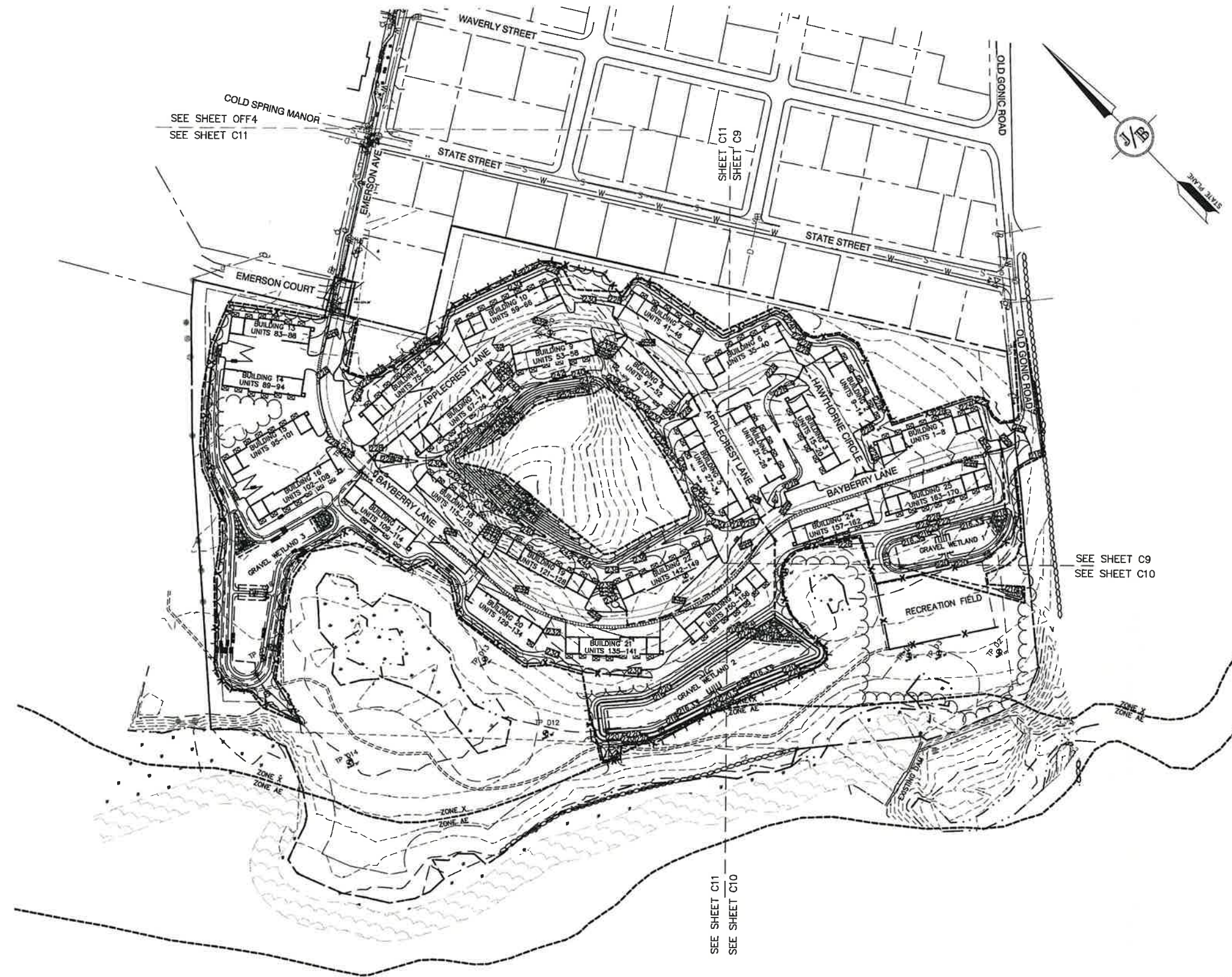
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Plan Name:	<b>SITE PLAN</b>
Project:	<b>BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH</b>
Owner of Record:	<b>LEO P. LACOUTURE REV. TRUST &amp; WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148</b>

DRAWING No.	<b>C8</b>
SHEET 13 OF 48 JBE PROJECT NO. 21090	



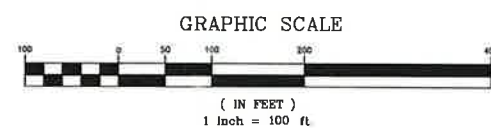


# GRADING AND DRAINAGE NOTES:

- THIS SITE WILL REQUIRE A USEPA NPDES PERMIT FOR STORMWATER DISCHARGE FOR THE CONSTRUCTION SITE. THE CONSTRUCTION SITE OPERATOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH SHALL REMAIN ON SITE AND BE MADE ACCESSIBLE TO THE PUBLIC. THE CONSTRUCTION SITE OPERATOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA REGIONAL OFFICE SEVEN DAYS PRIOR TO COMMENCEMENT OF ANY WORK ON SITE. EPA WILL POST THE NOI AT: [HTTP://CFPUB1.EPA.GOV/NPDES/STORMWATER/NOI/NOISEARCH.CFM](http://cfpub1.epa.gov/npdes/stormwater/noi/noisearch.cfm). AUTHORIZATION IS GRANTED UNDER THE PERMIT ONCE THE NOI IS SHOWN IN "ACTIVE" STATUS ON THIS WEBSITE. A COMPLETED NOTICE OF TERMINATION SHALL BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY WITHIN 30 DAYS AFTER EITHER OF THE FOLLOWING CONDITIONS HAVE BEEN MET:
  - FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE; OR
  - ANOTHER OPERATOR/PERMITTEE HAS ASSUMED CONTROL OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED. PROVIDE DPW WITH A COPY OF THE NOTICE OF TERMINATION (NOT).
- IF THIS CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 85 % MATURE VEGETATION COVER, OR RIPRAP BY OCTOBER 15, THEN THE SITE MUST BE PROTECTED WITH OVER-WINTER STABILIZATION. THE WINTER CONSTRUCTION PERIOD IS FROM OCTOBER 15 THROUGH MAY 15. WINTER EXCAVATION AND EARTHWORK ACTIVITIES SHALL BE LIMITED IN EXTENT AND DURATION, TO MINIMIZE POTENTIAL EROSION AND SEDIMENTATION IMPACTS.
- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER JONES & BEACH ENGINEERS, INC., NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 888-DIG-SAFE (888-344-7233).
- ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED. SEE CONSTRUCTION SEQUENCE ON SHEET E1.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT'S LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- ALL SWALES AND DETENTION PONDS ARE TO BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- PROPOSED RIM ELEVATIONS OF DRAINAGE STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES.
- ALL SWALES AND ANY SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER), UNLESS OTHERWISE SPECIFIED.
- ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4" MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS. CATCH BASINS SHALL HAVE 3' DEEP SUMPS WITH GREASE HOODS, UNLESS OTHERWISE NOTED.
- ALL DRAINAGE STRUCTURES SHALL BE PRECAST, UNLESS OTHERWISE SPECIFIED.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC H20 LOADING AND SHALL BE INSTALLED ACCORDINGLY.
- THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES AND ALONG WETLAND BUFFERS.
- ALL DRAINAGE PIPE SHALL BE NON-PERFORATED ADS N-12 OR APPROVED EQUAL.
- STONE INLET PROTECTION SHALL BE PLACED AT ALL CATCH BASINS. SEE DETAIL WITHIN THE DETAIL SHEETS.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY ALL GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE EPA SWPPP DURING CONSTRUCTION OPERATIONS.
- ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 3 DAYS OF FINAL GRADING AND ANYTIME CONSTRUCTION STOPS FOR LONGER THAN 3 DAYS.
- MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN EVENT OF 0.5" OR GREATER IN A 24 HOUR PERIOD AND AT LEAST ONCE A WEEK.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE, AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- CONSTRUCTION VEHICLES SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE TO THE EXTENT POSSIBLE THROUGHOUT CONSTRUCTION.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- SEDIMENT SHALL BE REMOVED FROM ALL SEDIMENT BASINS BEFORE THEY ARE 25% FULL.
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, IF DEEMED NECESSARY BY ON-SITE INSPECTION BY ENGINEER AND/OR REGULATORY OFFICIALS.
- SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.
- PRIOR TO CLEARING OR GRADING DISTURBANCE, THE CONTRACTOR SHALL IDENTIFY ALL AREAS OF TYPE 2 INVASIVE SPECIES AS DEFINED BY NHDOT AND ADHERE TO THE PRACTICES OUTLINED IN BEST MANAGEMENT PRACTICES FOR THE CONTROL OF INVASIVE AND NOXIOUS PLANT SPECIES, NHDOT, 2018. THESE PRACTICES SHALL BE FOLLOWED FOR THE ENTIRE CONSTRUCTION TERM INCLUDING ESTABLISHMENT OF LANDSCAPING. AS THE SITE RE-VEGETATES AFTER CONSTRUCTION, LANDSCAPING CONTRACTOR TO INFORM THE OWNER IF ANY INVASIVE SPECIES START TO GROW. OWNER SHALL CONTACT A QUALIFIED REMOVAL COMPANY AND FOLLOW NHDES BEST MANAGEMENT PRACTICES.

SEE SHEET C9  
SEE SHEET C10

SEE SHEET C11  
SEE SHEET C10



Design: JAC Draft: LAZ Date: 04/29/21  
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85 Portsmouth Ave. PO Box 219 Stratham, NH 03885  
603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	<b>OVERVIEW GRADING PLAN</b>
Project:	<b>BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH</b>
Owner of Record:	<b>LEO P. LACOUTURE REV. TRUST &amp; WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148</b>

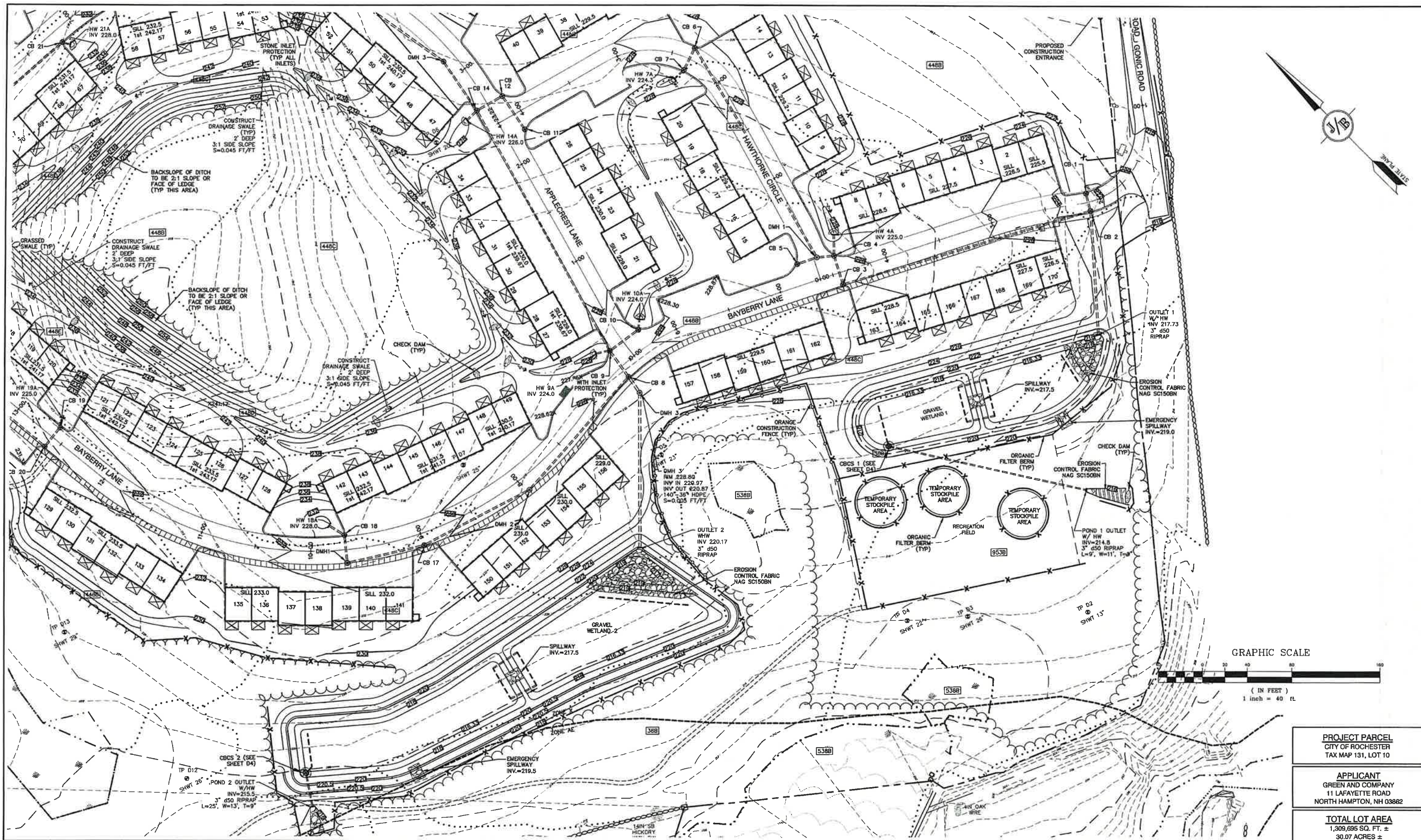
<b>PROJECT PARCEL</b> CITY OF ROCHESTER TAX MAP 131, LOT 10
<b>APPLICANT</b> GREEN AND COMPANY 11 LAFAYETTE ROAD NORTH HAMPTON, NH 03862
<b>TOTAL LOT AREA</b> 1,309,695 SQ. FT. ± 30.07 ACRES ±

DRAWING No.  
**OVRG**  
SHEET 14 OF 48  
JBE PROJECT NO. 21090









GRAPHIC SCALE

( IN FEET )  
1 inch = 40 ft

PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

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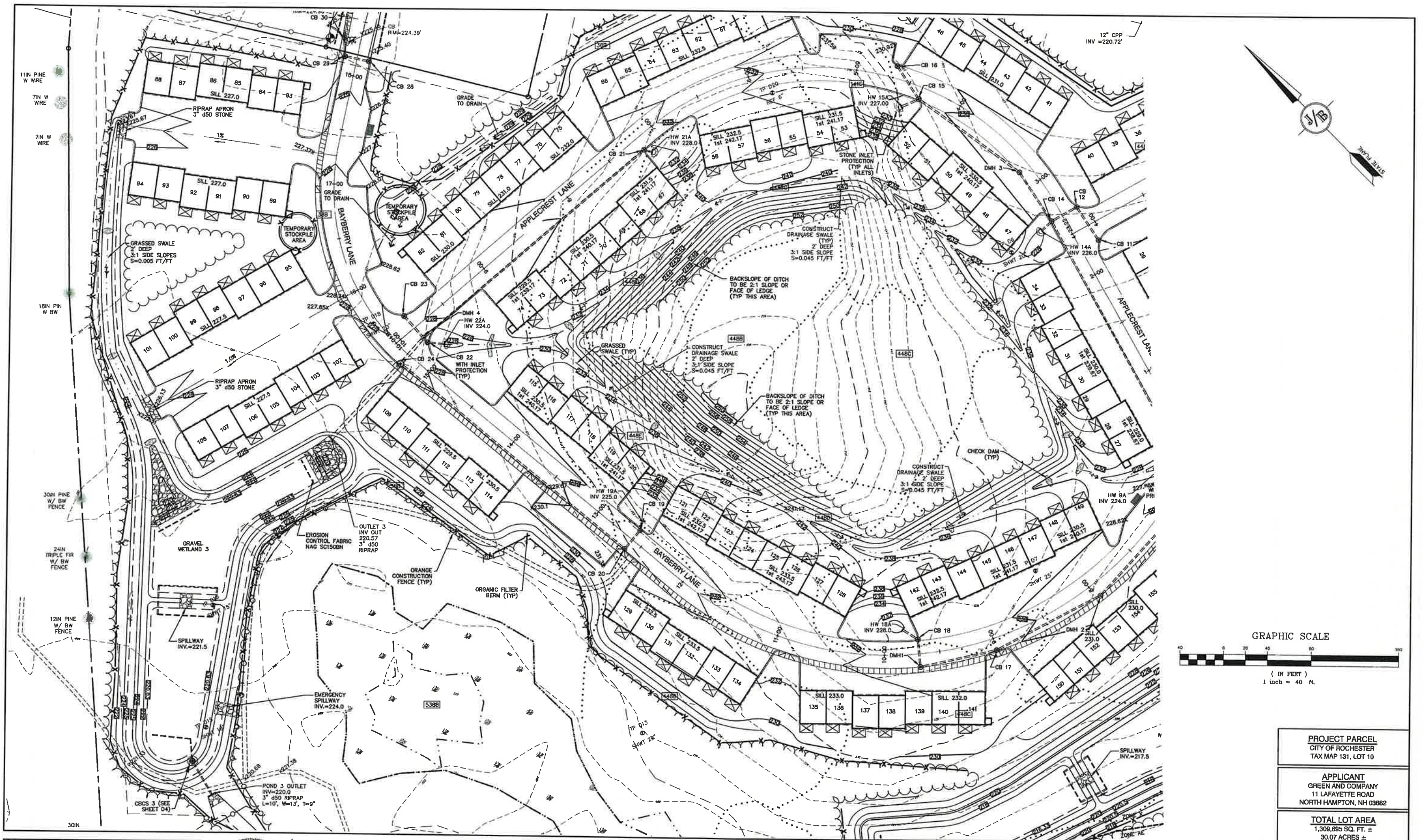
Plan Name: **GRADING & DRAINAGE PLAN**  
Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.

**C10**

SHEET 16 OF 48  
JBE PROJECT NO. 21090





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REV.	DATE	REVISION	BY

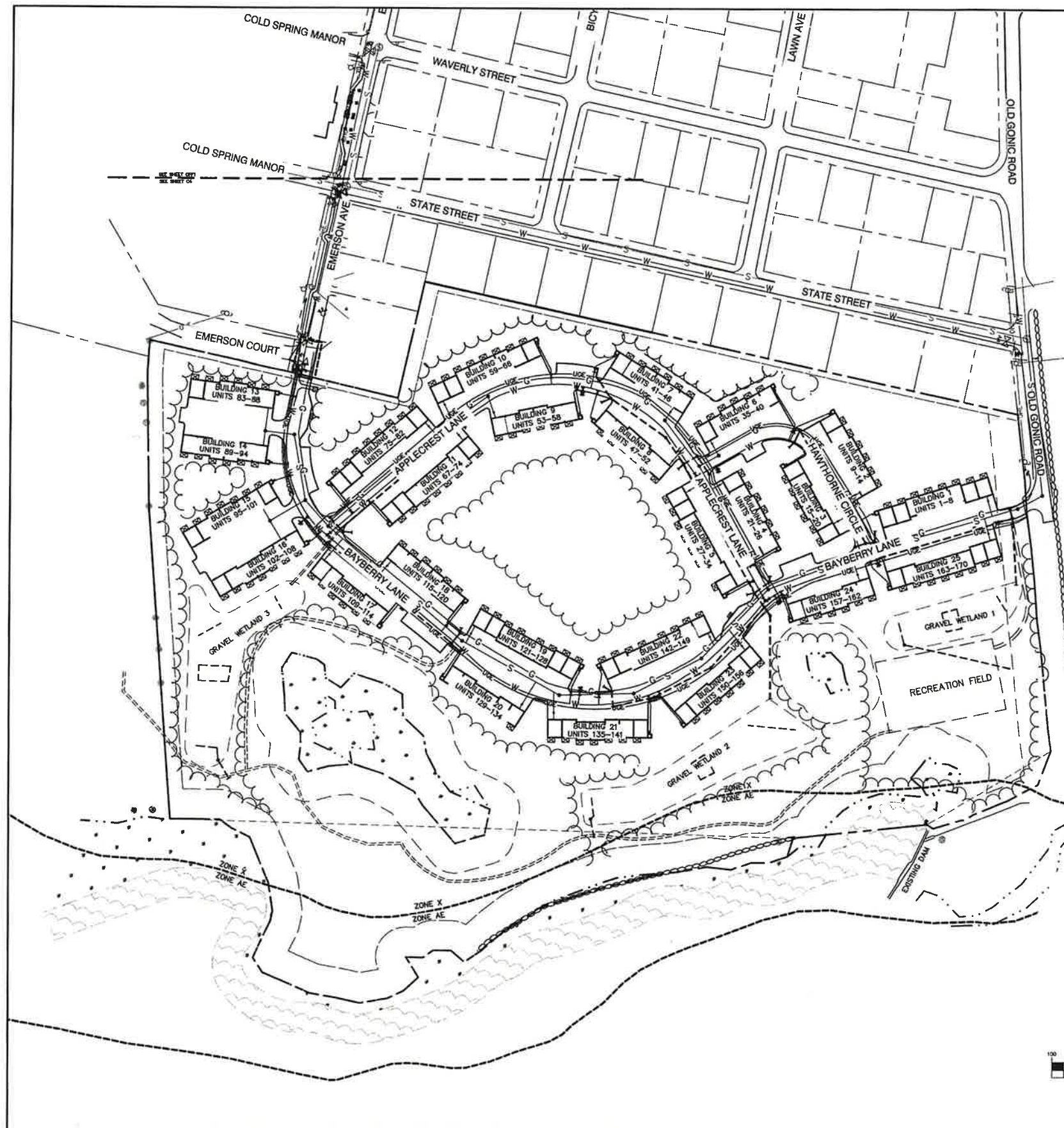
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Plan Name: **GRADING & DRAINAGE PLAN**  
 Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
 Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**C11**  
 SHEET 17 OF 48  
 JBE PROJECT NO. 21090

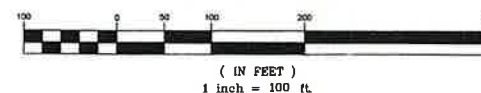




#### UTILITY NOTES:

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, ARCHITECT AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, CONNECTION FEES AND BONDS.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
3. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM, GAS, WATER, AND SEWER).
4. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL PROJECT-RELATED UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO START OF CONSTRUCTION.
5. ALL CONSTRUCTION SHALL CONFORM TO THE CITY STANDARDS AND REGULATIONS, AND NHDES STANDARDS AND SPECIFICATIONS, WHICHEVER ARE MORE STRINGENT, UNLESS OTHERWISE SPECIFIED.
6. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
7. BUILDING TO BE SERVICED BY UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUDS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED.
9. AS-BUILT PLANS SHALL BE SUBMITTED TO DEPARTMENT OF PUBLIC WORKS.
10. INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELVE AND INVERT. CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. 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 THROUGH CHANNEL UNDERLAYMENT OF INVERT, AND SHELVE SHALL CONSIST OF BRICK MASONRY.
11. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30 INCH DIA. CLEAR OPENING. THE WORD "SEWER" OR "DRAIN" SHALL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED, 3" LETTERS.
12. SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H20 LOADS.
13. CONTRACTOR SHALL PLACE 2" WIDE METAL WIRE IMPREGNATED RED PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.
14. SANITARY SEWER FLOW CALCULATIONS:  
170-THREE BEDROOM UNITS @200 GPD PER UNIT = 34,000 GPD PER WESTON AND SAMPSON CALCULATIONS.  
PEAKING FACTOR = 34,000 GPD X 6 (PEAKING FACTOR) = 204,000 GPD  
INFILTRATION (300 GPD PER INCH DIA. X MILE OF PIPE) = 300 X 8 X (2,541 LF/5280) = 1,155 GPD INFILTRATION.
15. ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4" MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
16. PROPOSED RIM ELEVATIONS OF DRAINAGE AND SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISH GRADE AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
17. ALL WATER MAINS AND SERVICE PIPES SHALL HAVE A MINIMUM 12" VERTICAL AND 24" HORIZONTAL SEPARATION TO MANHOLES, OR CONTRACTOR SHALL INSTALL BOARD INSULATION FOR FREEZING PROTECTION.
18. WATER MAINS SHALL BE HYDROSTATICALLY PRESSURE TESTED FOR LEAKAGE PRIOR TO ACCEPTANCE. WATERMANS SHALL BE TESTED AT 1.5 TIMES THE WORKING PRESSURE OR 150 PSI, WHICHEVER IS GREATER. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 4 OF AWWA STANDARD C 908. WATERMANS SHALL BE DISINFECTED AFTER THE ACCEPTANCE OF THE PRESSURE AND LEAKAGE TESTS ACCORDING TO AWWA STANDARD C 651.
19. ALL WATER AND SANITARY LEADS TO BUILDING(S) SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLANS AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AND WITNESS AT END.
20. IF THE BUILDING IS REQUIRED TO HAVE A SPRINKLER SYSTEM, A PRECONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, OWNER, ARCHITECT AND THE LOCAL FIRE DEPARTMENT PRIOR TO THE INSTALLATION.
21. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, MECHANICAL JOINTS AND FIRE HYDRANTS.
22. DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
23. REFER TO FIRE PROTECTION SHEETS FOR LOCATION AND DETAIL OF FIRE LINE LEAD IN TO BUILDING. FIRE LINE SHALL BE STUBBED UP 1' ABOVE FINISH FLOOR ELEVATION IN SPRINKLER ROOM. AN APPROVED AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 101 LIFE SAFETY CODE/NFPA 1 AND LOCAL REGULATIONS. FIRE DEPARTMENT CONNECTION SHALL BE FIELD VERIFIED BY LOCAL FIRE DEPARTMENT TO ENSURE OPTIMUM PLACEMENT.
24. THE CONTRACTOR SHALL HAVE THE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER FIRE PROTECTION SYSTEM PRIOR TO INSTALLATION.
25. CONTRACTOR TO FURNISH SHOP DRAWINGS FOR UTILITY RELATED ITEMS TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SHOULD BE SENT IN TRIPPLICATE TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
26. EXISTING UTILITIES SHALL BE DIGSAFED BEFORE CONSTRUCTION.
27. ALL WATER LINES SHOULD HAVE TESTABLE BACKFLOW PREVENTERS AT THE ENTRANCE TO EACH BUILDING.
28. ALL GRAVITY SEWER PIPE, MANHOLES, AND FORCE MAINS SHALL BE TESTED ACCORDING TO NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWAGE AND WASTEWATER TREATMENT FACILITIES, CHAPTER ENV-WQ 700, ADOPTED ON 10-15-14.
29. SPECIFICATIONS FOR GRAVITY SEWER PIPE TESTING REQUIREMENTS PER ENV WQ 704.08.  
(a) ALL NEW GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF LOW-PRESSURE AIR TESTS.  
(b) LOW-PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH THE FOLLOWING TESTING STANDARDS IN EFFECT AT THE TIME THE TEST IS CONDUCTED:  
(1) ASTM F1417 "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR", AVAILABLE AS NOTED IN APPENDIX D; OR  
(2) UN-BELL PVC PIPE ASSOCIATION UN-B-6, LOW-PRESSURE AIR TESTING OF INSTALLED SEWER PIPE", AVAILABLE AS NOTED IN APPENDIX D.  
(c) ALL NEW GRAVITY SEWERS SHALL BE:  
(1) CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER; AND  
(2) TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE.  
(d) ALL PLASTIC SEWER PIPE SHALL BE VISUALLY INSPECTED AND DEFLECTION TESTED NOT LESS THAN 30 DAYS NOR MORE THAN 90 DAYS FOLLOWING INSTALLATION.  
(e) THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% PERCENT OF AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.
30. ENV-WQ 704.17 SEWER MANHOLE TESTING: SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST PRIOR TO BACKFILLING AND PLACEMENT OF SHELVES AND INVERTS.
31. SANITARY SEWER LINES SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM AN EXISTING OR PROPOSED WATER LINE. WHEN A SEWER LINE CROSSES UNDER A WATER LINE, THE SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATERMAIN. THE SEWER LINE SHALL ALSO MAINTAIN A VERTICAL SEPARATION OF NOT LESS THAN 18 INCHES.
32. SEWERS SHALL BE BURIED TO A MINIMUM DEPTH OF 8 FEET BELOW GRADE IN ALL ROADWAY LOCATIONS, AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS-COUNTRY LOCATIONS. PROVIDE TWO-INCHES OF R-10 FOAM BOARD INSULATION 2-FOOT WIDE TO BE INSTALLED 6-INCHES OVER SEWER PIPE IN AREAS WHERE DEPTH IS NOT ACHIEVED. A WAIVER FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER ENGINEERING BUREAU IS REQUIRED PRIOR TO INSTALLING SEWER AT LESS THAN MINIMUM COVER.
33. ALL WATER AND SANITARY LEADS TO BUILDING(S) SHALL END AT RIGHT OF WAY AS SHOWN ON PLANS AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AND WITNESS AT END.
34. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTIONS TO THE EXISTING SEWER FLOWS AND THOSE INTERRUPTIONS SHALL BE LIMITED TO FOUR (4) HOURS OR LESS AS DESIGNATED BY THE CITY SEWER DEPARTMENT.
35. LIGHTING CONDUIT SHALL BE SCHEDULE 40 PVC, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE NATIONAL ELECTRIC CODE. CONTRACTOR SHALL PROVIDE EXCAVATION AND BACKFILL.
36. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
37. DISINFECTION OF WATER MAINS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH AWWA STANDARD C651, LATEST EDITION. THE BASIC PROCEDURE TO BE FOLLOWED FOR DISINFECTING WATER MAINS IS AS FOLLOWS:  
a. PREVENT CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING STORAGE, CONSTRUCTION, OR REPAIR.  
b. REMOVE, BY FLUSHING OR OTHER MEANS, THOSE MATERIALS THAT MAY HAVE ENTERED THE WATER MAINS.  
c. CHLORINATE ANY RESIDUAL CONTAMINATION THAT MAY REMAIN, AND FLUSH THE CHLORINATED WATER FROM THE MAIN.  
d. PROTECT THE EXISTING DISTRIBUTION SYSTEM FROM BACKFLOW DUE TO HYDROSTATIC PRESSURE TEST AND DISINFECTION PROCEDURES.  
e. DETERMINE THE BACTERIOLOGICAL QUALITY BY LABORATORY TEST AFTER DISINFECTION.  
f. MAKE FINAL CONNECTION OF THE APPROVED NEW WATER MAIN TO THE ACTIVE DISTRIBUTION SYSTEM.

#### GRAPHIC SCALE



Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg

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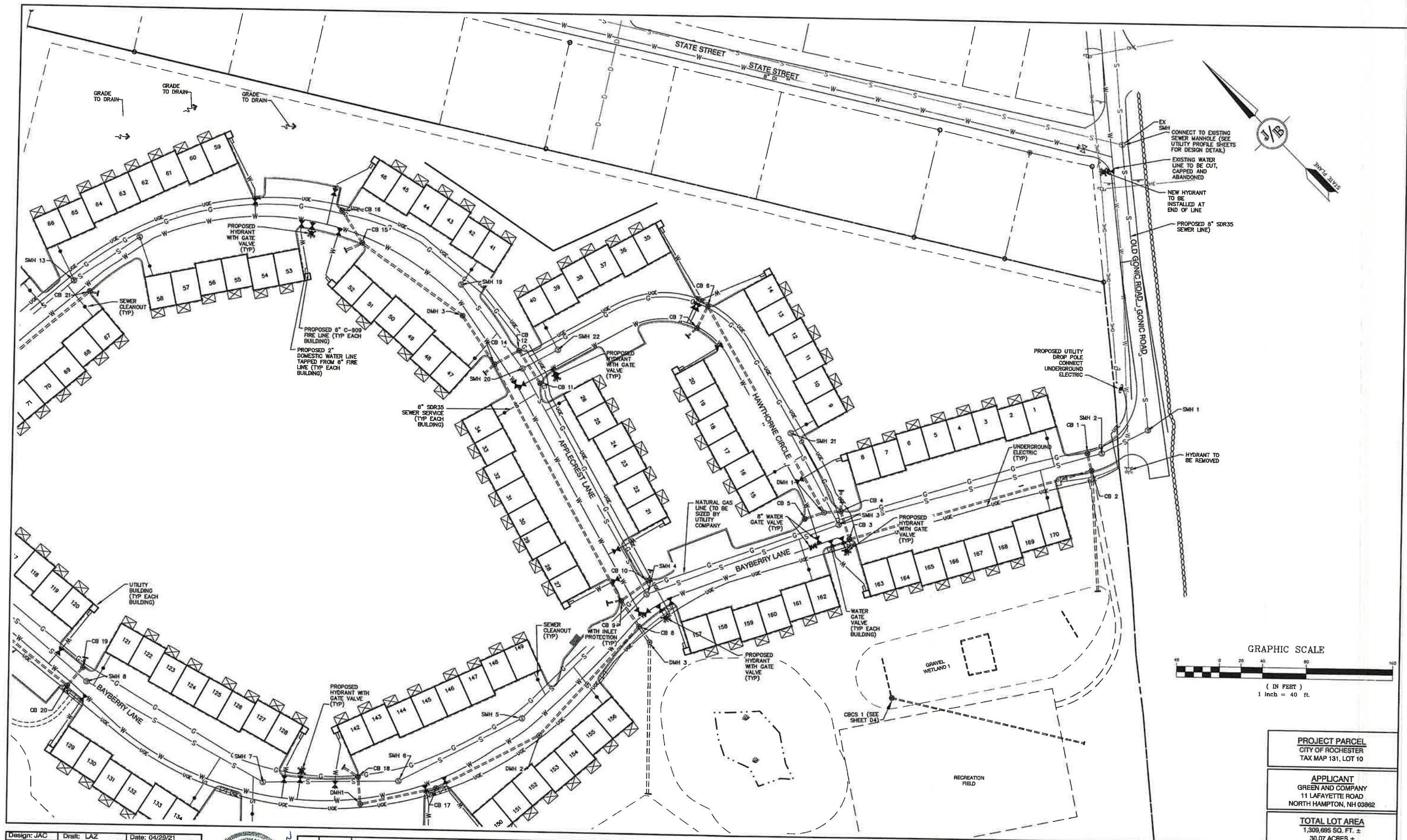
REV.	DATE	REVISION	BY
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11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

Designed and Produced in NH  
**J/B Jones & Beach Engineers, Inc.**  
85 Portsmouth Ave. Civil Engineering Services 603-772-4746  
PO Box 219 Stratham, NH 03885 FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **OVERVIEW UTILITY PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**OVRU**  
SHEET 18 OF 48  
JBE PROJECT NO. 21090





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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

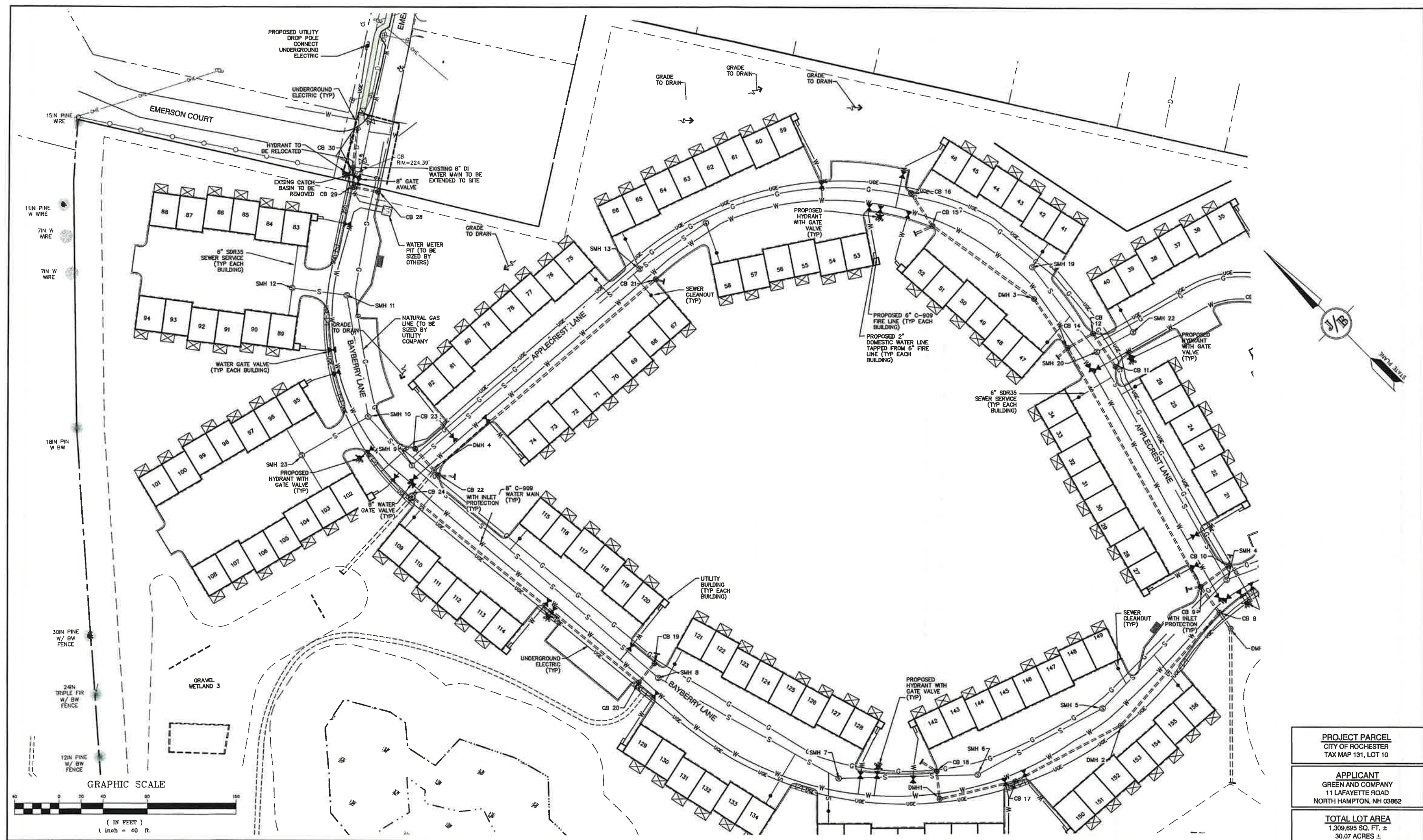
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 PO Box 219  
 Stratham, NH 03885  
 603-772-4746  
 FAX: 603-772-0227  
 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	<b>UTILITY PLAN</b>
Project:	<b>BAYBERRY COMMONS</b> 19 OLD GONVIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONVIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

<b>PROJECT PARCEL</b> CITY OF ROCHESTER TAX MAP 131, LOT 10
<b>APPLICANT</b> GREEN AND COMPANY 11 LAFAYETTE ROAD NORTH HAMPTON, NH 03892
<b>TOTAL LOT AREA</b> 1,309,695 SQ. FT. ± 30.07 ACRES ±

DRAWING No.  
**U1**  
 SHEET 19 OF 48  
 JBE PROJECT NO. 21090





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Drawing Name: 21090-PLAN.dwg		

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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ
REV.	DATE	REVISION	BY

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**J/B** Jones & Beach Engineers, Inc.

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PO Box 219  
Stratham, NH 03885 FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	UTILITY PLAN
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.

**U2**

SHEET 20 OF 48  
BE PROJECT NO. 21090

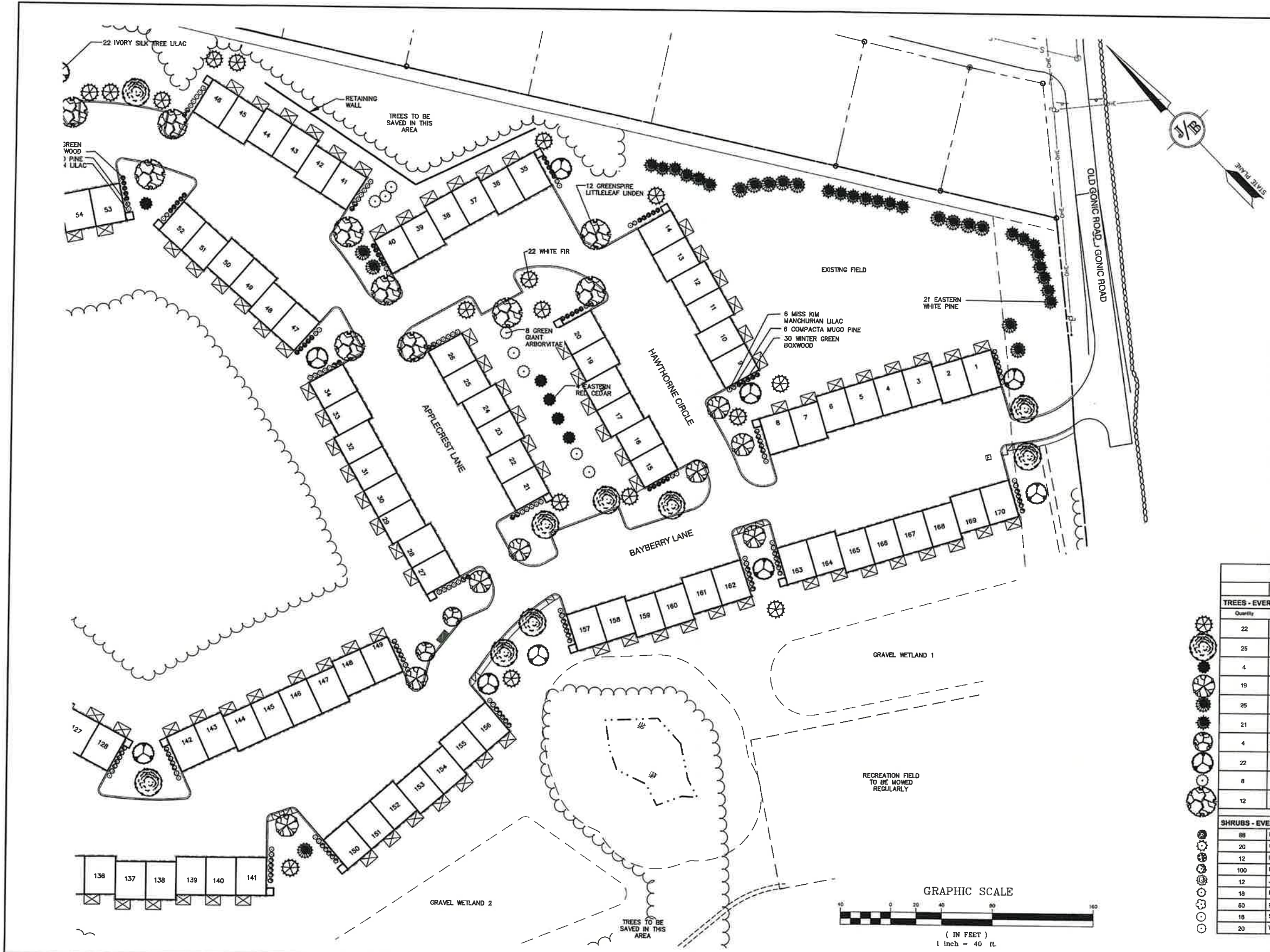


LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE.
5. NO PLANT SHALL BE PUT IN THE GROUND BEFORE GRADING HAS BEEN FINISHED AND APPROVED BY THE LANDSCAPE ARCHITECT.
6. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN IF NECESSARY, DURING THE FIRST GROWING SEASON.
7. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NOT LESS THAN ONE FULL YEAR FROM THE TIME OF PROVISIONAL ACCEPTANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE.
8. BY THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAS DIED, LOST NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESSIVE PRUNING OR INADEQUATE OR IMPROPER CARE, OR THAT IS, IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN UNHEALTHY OR UNSIGHTLY CONDITION.
9. ALL LANDSCAPE AREAS TO BE GRASS COMMON TO REGION, EXCEPT FOR INTERIOR LANDSCAPED ISLANDS OR WHERE OTHER PLANT MATERIAL IS SPECIFIED.
10. ALL TREES AND SHRUBS SHALL BE PLANTED IN MULCH BEDS WITH EDGE STRIPS TO SEPARATE TURF GRASS AREAS.
11. THE CONTRACTOR SHALL REMOVE WEEDS, ROCKS, CONSTRUCTION ITEMS, ETC. FROM ANY LANDSCAPE AREA SO DESIGNATED TO REMAIN, WHETHER ON OR OFF-SITE. GRASS SEED OR PINE BARK MULCH SHALL BE APPLIED AS DEPICTED ON PLANS.
12. FINISHED GRADES IN LANDSCAPED ISLANDS SHALL BE INSTALLED SO THAT THEY ARE 1" HIGHER THAN THE TOP OF THE SURROUNDING CURB.
13. ALL LANDSCAPING SHALL MEET THE CITY STANDARDS AND REGULATIONS.
14. EXISTING TREES TO REMAIN SHALL BE CLEARLY MARKED PRIOR TO LAND CLEARING ACTIVITIES AND SHALL BE PROTECTED WITH TEMPORARY SNOW FENCING AT THE DROPLINE OF THE TREE. THE CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS WITHIN THE LANDSCAPED AREAS. ANY DAMAGE TO EXISTING TREES, SHRUBS OR LAWN SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
15. ALL MULCH AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH OVER A 10 MIL WEED MAT EQUAL TO 'WEEDBLOCK' BY EASY GARDENER OR DEWITT WEED BARRIER.
16. ALL LANDSCAPED AREAS SHALL HAVE SELECT MATERIALS REMOVED TO A DEPTH OF AT LEAST 8" BELOW FINISH GRADE. THE RESULTING VOID IS TO BE FILLED WITH A MINIMUM OF 9" HIGH-QUALITY SCREENED LOAM AMENDED WITH 3" OF AGED ORGANIC COMPOST.
17. THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO CIVIL/SITE DRAWINGS FOR OTHER SITE CONSTRUCTION INFORMATION.

JBE 21090 - OLD GONIC RD TOWNHOUSES

TREES - EVERGREEN & DECIDUOUS			
Quantity	Botanical Name	Common Name	Size
22	Abies concolor	WHITE FIR	9-10 FT. HT.
25	Acer saccharum 'Green Mountain'	GREEN MOUNTAIN SUGAR MAPLE	3" Caliper
4	Juniperus virginiana	EASTERN RED CEDAR	7-8 FT. HT.
19	Liquidambar styraciflua	SWEETGUM	3" Caliper
25	Picea abies	NORWAY SPRUCE	9-10 FT. HT.
21	Pinus strobus	EASTERN WHITE PINE	9-10 FT. HT.
4	Prunus serrulata 'Kwanzan'	KWANZAN ORIENTAL CHERRY	2.5" Caliper
22	Syringa reticulata 'Ivory Silk'	IVORY SILK TREE LILAC	2.5" Caliper
8	Thuja plicata 'Green Giant'	GREEN GIANT ARBORVITAE	7-8 FT. HT.
12	Tilia cordata 'Greenspire'	GREENSPIRE LITTLELEAF LINDEN	3" Caliper
SHRUBS - EVERGREEN & DECIDUOUS			
88	Buxus microphylla var. koransis 'Winter Green'	WINTER GREEN BOXWOOD	5 Gallon
20	Chamaecyparis pisifera 'Aurea'	GOLDEN THREAD CYPRESS	5 Gallon
12	Hydrangea arborescens 'Annabelle'	ANNABELLE HYDRANGEA	5 Gallon
100	Ilex glabra 'Shamrock'	SHAMROCK INKERRY HOLLY	5 Gallon
12	Juniperus chinensis 'Sea Green'	SEA GREEN JUNIPER	5 Gallon
18	Pinus mugo 'Compacta'	COMPACTA MUGO PINE	5 Gallon
60	Rhododendron 'PJM'	PJM RHODODENDRON	5 Gallon
18	Syringa patula 'Miss Kim'	MISS KIM MANCHURIAN LILAC	5 Gallon
20	Weigela florida 'Alexandra'	WINE & ROSES WEIGELA	5 Gallon



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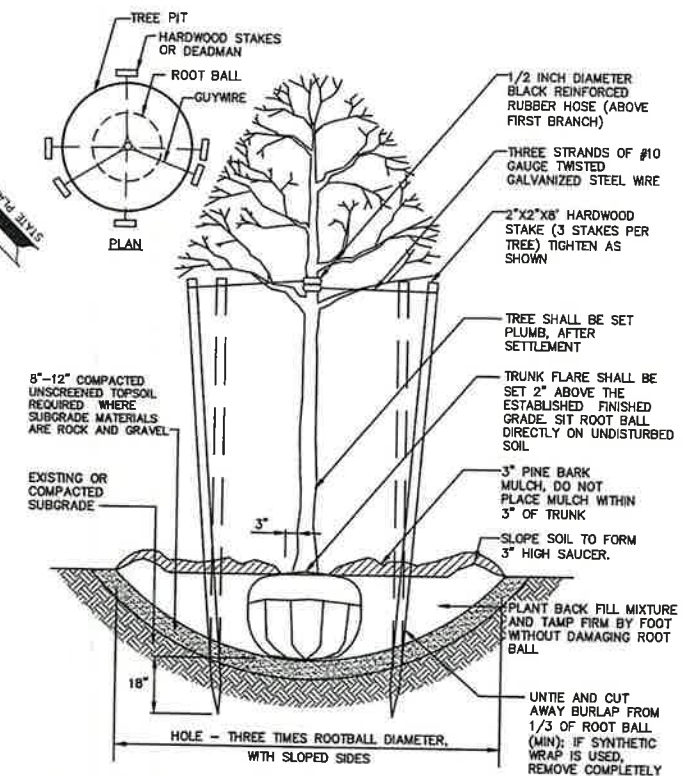
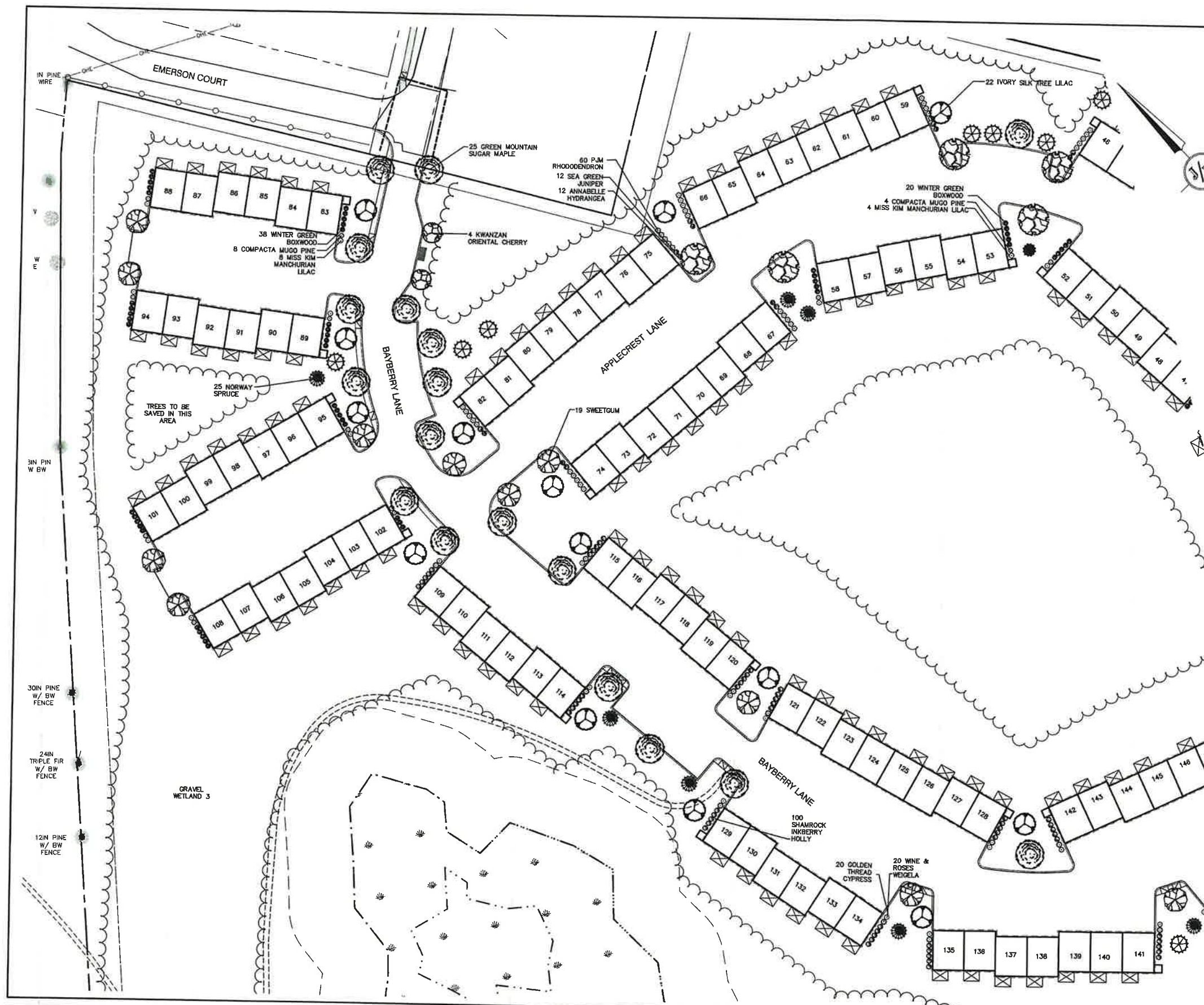
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**J/B Jones & Beach Engineers, Inc.**  
Designed and Produced in NH  
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885  
Civil Engineering Services  
603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **LANDSCAPE PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

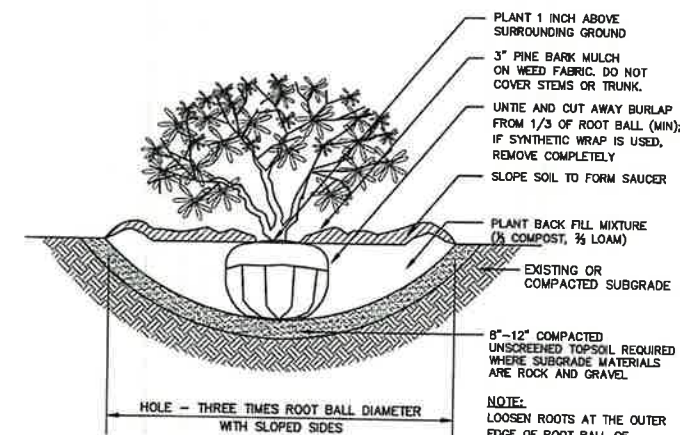
DRAWING No. **L1**  
SHEET 21 OF 48  
JBE PROJECT NO. 21090





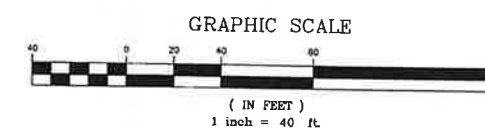
TREE PLANTING (FOR TREES UNDER 4" CALIPER)

NOT TO SCALE



SHRUB PLANTING

NOT TO SCALE



PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,309,895 SQ. FT. ±  
30.07 ACRES ±

Design: JAC Draft: LAZ Date: 04/29/21  
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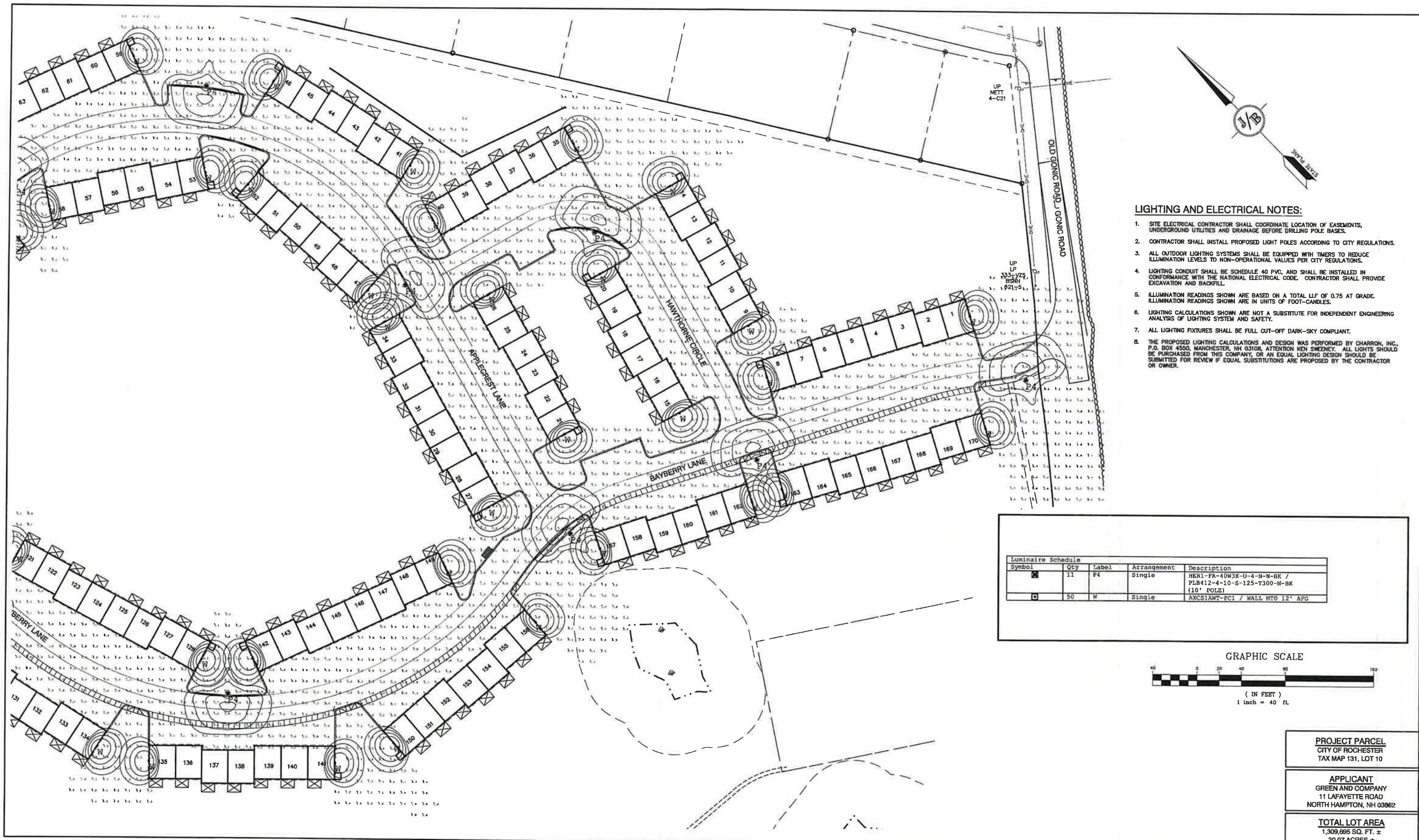
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Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.

**L2**

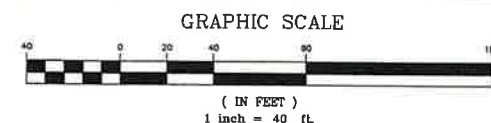
SHEET 22 OF 48  
JBE PROJECT NO. 21090





- LIGHTING AND ELECTRICAL NOTES:**
1. SITE ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
  2. CONTRACTOR SHALL INSTALL PROPOSED LIGHT POLES ACCORDING TO CITY REGULATIONS.
  3. ALL OUTDOOR LIGHTING SYSTEMS SHALL BE EQUIPPED WITH TIMERS TO REDUCE ILLUMINATION LEVELS TO NON-OPERATIONAL VALUES PER CITY REGULATIONS.
  4. LIGHTING CONDUIT SHALL BE SCHEDULE 40 PVC, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL PROVIDE EXCAVATION AND BACKFILL.
  5. ILLUMINATION READINGS SHOWN ARE BASED ON A TOTAL LLF OF 0.75 AT GRADE. ILLUMINATION READINGS SHOWN ARE IN UNITS OF FOOT-CANDLES.
  6. LIGHTING CALCULATIONS SHOWN ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM AND SAFETY.
  7. ALL LIGHTING FIXTURES SHALL BE FULL CUT-OFF DARK-SKY COMPLIANT.
  8. THE PROPOSED LIGHTING CALCULATIONS AND DESIGN WAS PERFORMED BY CHARRON, INC., P.O. BOX 4550, MANCHESTER, NH 03108, ATTENTION KEN SWEENEY. ALL LIGHTS SHOULD BE PURCHASED FROM THIS COMPANY, OR AN EQUAL LIGHTING DESIGN SHOULD BE SUBMITTED FOR REVIEW IF EQUAL SUBSTITUTIONS ARE PROPOSED BY THE CONTRACTOR OR OWNER.

Luminaire Schedule				
Symbol	Qty	Label	Arrangement	Description
■	11	P4	Single	HER1-FA-40W3K-U-4-N-N-BK / PLB412-4-10-S-125-T300-N-BK (10' POLE)
□	50	N	Single	AXCS1AWT-PC1 / WALL MTD 12' AFG



**PROJECT PARCEL**  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

**APPLICANT**  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

**TOTAL LOT AREA**  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

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9	8/28/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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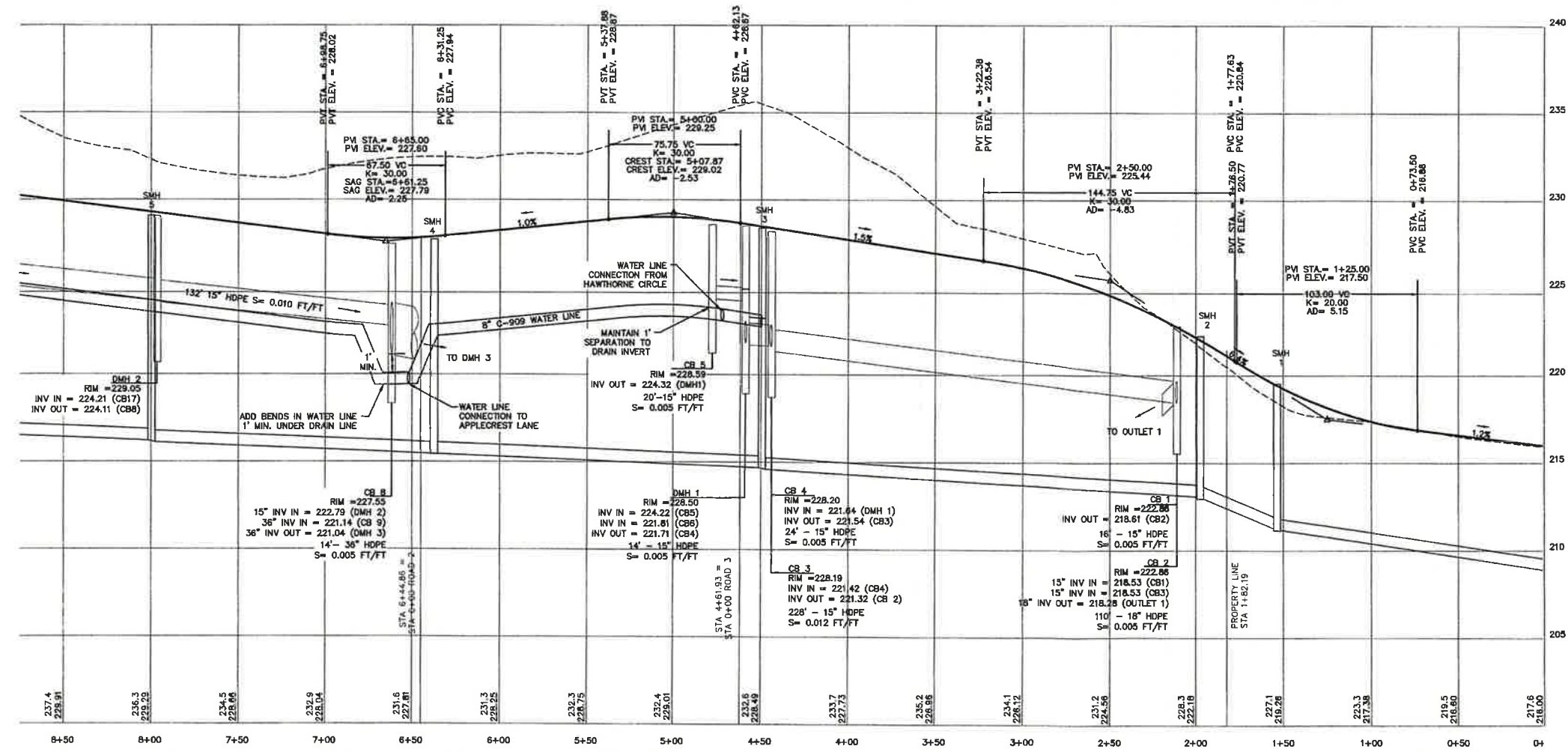
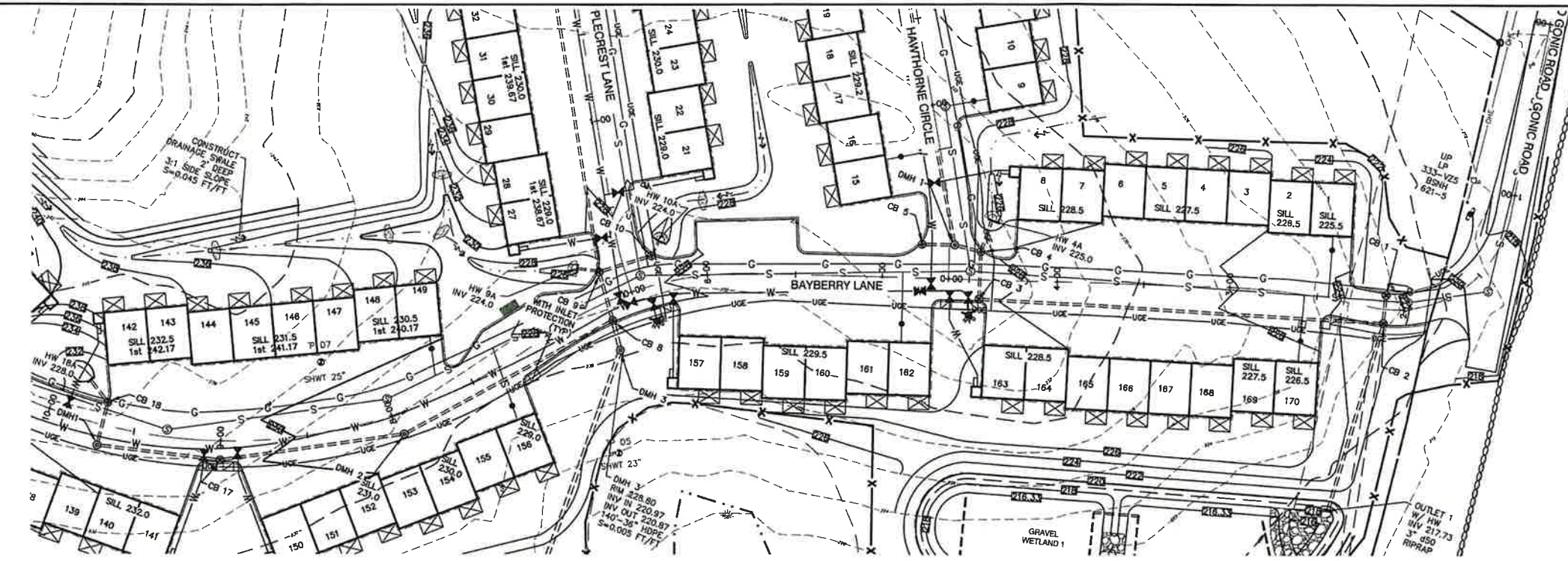
Plan Name: **LIGHTING PLAN**  
Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**L3**  
SHEET 23 OF 48  
JBE PROJECT NO. 21090



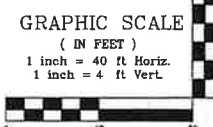






**NOTES:**

- ALL ROAD AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR THE CITY, AND NHDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WHICHEVER IS MORE STRINGENT.
- AS-BUILT PLANS TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE ROADWAY.
- DEVELOPER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
- CONTRACTOR TO COORDINATE AND COMPLETE ALL WORK REQUIRED FOR THE RELOCATION AND/OR INSTALLATION OF ELECTRIC, CATV, TELEPHONE AND FIRE ALARM PER UTILITY DESIGN AND STANDARDS. LOCATIONS SHOWN ARE APPROXIMATE. LOW PROFILE STRUCTURES SHALL BE USED TO THE GREATEST EXTENT POSSIBLE.
- THIS PLAN HAS BEEN PREPARED BY JONES & BEACH ENGINEERS, INC. FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA SHOWN ON THE DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
- SILTATION AND EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN UNTIL SITE HAS BEEN STABILIZED WITH PERMANENT VEGETATION. SEE DETAIL SHEET E1 FOR ADDITIONAL NOTES ON EROSION CONTROL.
- ALL DISTURBED AREAS NOT STABILIZED BY NOVEMBER 1st SHALL BE COVERED WITH AN EROSION CONTROL BLANKET. PRODUCT TO BE SPECIFIED BY THE ENGINEER.
- FINAL DRAINAGE, GRADING AND EROSION PROTECTION MEASURES SHALL CONFORM TO REGULATIONS OF THE PUBLIC WORKS DEPARTMENT.
- CONTRACTOR TO VERIFY EXISTING UTILITIES AND TO NOTIFY ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
- ROADWAY INTERSECTIONS WITH SLOPE GRANITE CURB SHALL EXTEND AROUND RADIUS WITH 6' STRAIGHT PIECE ALONG TANGENT.
- RETAINING WALLS SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER PRIOR TO INSTALLATION.
- 6" PERFORATED ADS UNDER DRAIN PLACEMENT TO BE DETERMINED BY THE ENGINEER DURING TIME OF SUBGRADE INSPECTION. CONTRACTOR TO ADJUST LOCATION IN THE FIELD ONLY WITH PRIOR APPROVAL OF PROJECT ENGINEER OR PUBLIC WORKS DEPARTMENT.
- ALL DRIVEWAYS TO BE CONSTRUCTED MAXIMUM 10% SLOPE. SEE DETAIL SHEET.
- SIDEWALK TO BE INSTALLED AT TIME OF TOP COURSE PAVING ALONG WITH DRIVEWAY APRONS.
- DRAINAGE INSPECTION AND MAINTENANCE SCHEDULE: SILT FENCING WILL BE INSPECTED DURING AND AFTER STORM EVENTS TO ENSURE THAT THE FENCE STILL HAS INTEGRITY AND IS NOT ALLOWING SEDIMENT TO PASS. SEDIMENT BUILD UP IN SWALES WILL BE REMOVED IF IT IS DEEPER THAN SIX INCHES, AND IS TO BE REMOVED FROM SWALES BELOW THE INLET OF CULVERTS SEMIANNUALLY, AS WELL AS FROM CATCH BASINS. FOLLOWING MAJOR STORM EVENTS, THE STAGE DISCHARGE OUTLET STRUCTURES ARE TO BE INSPECTED AND ANY DEBRIS REMOVED FROM THE ORIFICE, TRASH TRACK AND EMERGENCY SPILL WAY. INFREQUENTLY, SEDIMENT MAY ALSO HAVE TO BE REMOVED FROM THE SUMP OF THE STRUCTURE.
- ALL DRAINAGE INFRASTRUCTURE SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING ANY RUNOFF TO IT.
- DETENTION PONDS REQUIRE TIMELY MAINTENANCE AND SHOULD BE INSPECTED AFTER EVERY MAJOR STORM EVENT, AS WELL AS FREQUENTLY DURING THE FIRST YEAR OF OPERATION, AND ANNUALLY THEREAFTER. EVERY FIVE YEARS, THE SERVICES OF A PROFESSIONAL ENGINEER SHOULD BE RETAINED TO PERFORM A THOROUGH INSPECTION OF THE DETENTION POND AND ITS INFRASTRUCTURE. ANY DEBRIS AND SEDIMENT ACCUMULATIONS SHOULD BE REMOVED FROM THE OUTLET STRUCTURE(S) AND EMERGENCY SPILLWAY(S) AND DISPOSED OF PROPERLY. DETENTION POND BERMS SHOULD BE MOVED AT LEAST ONCE ANNUALLY SO AS TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION. TREES SHOULD NEVER BE ALLOWED TO GROW ON A DETENTION POND BERM, AS THEY MAY DESTABILIZE THE STRUCTURE AND INCREASE THE POTENTIAL FOR FAILURE. AREAS SHOWING SIGNS OF EROSION OR THIN OR DYING VEGETATION SHOULD BE REPAIRED IMMEDIATELY BY WHATEVER MEANS NECESSARY, WITH THE EXCEPTION OF FERTILIZER ROBERT BORROWS SHOULD BE REPAIRED IMMEDIATELY AND THE ANIMALS SHOULD BE TRAPPED AND RELOCATED IF THE PROBLEM PERSISTS.
- THE DETENTION PONDS ARE TO BE CONSTRUCTED PRIMARILY THROUGH EXCAVATION IN THOSE AREAS WHERE THE BERMS MUST BE CONSTRUCTED BY THE PLACEMENT OF FILL. THE ENTIRE EMBANKMENT AREA OF THE DETENTION PONDS SHALL BE EXCAVATED TO PROPOSED GRADE, STRIPPED OF ALL ORGANIC MATERIALS, COMPACTED TO AT LEAST 95% AND SCARIFIED PRIOR TO THE PLACEMENT OF THE EMBANKMENT MATERIAL. IN THE EVENT THE FOUNDATION MATERIAL EXPOSED DOES NOT ALLOW THE SPECIFIED COMPACTION, AN ADDITIONAL ONE FOOT (1') OF EXCAVATION AND THE PLACEMENT OF A ONE FOOT (1') THICK, TWELVE FOOT (12') WIDE PAD OF THE MATERIAL DESCRIBED IN THE NOTE ABOVE, COMPACTED TO 95% OF ASTM D-1557 MAY BE NECESSARY. PLACEMENT AND COMPACTION SHOULD OCCUR AT A MOISTURE CONTENT OF OPTIMUM PLUS OR MINUS 3%, AND NO FROZEN OR ORGANIC MATERIAL SHOULD BE PLACED WITHIN FOR ANY REASON.
- EMBANKMENT MATERIAL FOR THE BERMS SHALL BE CLEAN MINERAL SOIL WITH A CLAY COMPONENT FREE OF ROOTS, ORGANIC MATTER, AND OTHER DELETERIOUS SUBSTANCES, AND SHALL CONTAIN NO ROCKS OR LUMPS OVER FOUR INCHES (4") IN DIAMETER. THIS MATERIAL SHOULD BE INSTALLED IN 6" LIFTS AND COMPACTED TO 95% OF ASTM D-1557, AND SHOULD MEET THE FOLLOWING SPECIFICATIONS: 4" PASSING 100%, #4 SIEVE 25-70%, #200 SIEVE 10-25% (IN TOTAL SAMPLE).
- EMBANKMENT IS TO HAVE 3:1 SIDE SLOPES (MAX.) AND IS TO BE BROUGHT TO SPECIFIED GRADES PRIOR TO THE ADDITION OF LOAM (4" MINIMUM) SO AS TO ALLOW FOR THE COMPACTION OF THE STRUCTURE OVER TIME WHILE MAINTAINING THE PROPER BERM ELEVATION.
- COMPACTION TESTING SERVICES (I.E. NUCLEAR DENSITY TESTS) ARE TO BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR FOR ROADWAY CONSTRUCTION, AND ON THE FOUNDATION OF THE BERM AND ON EVERY LIFT OF NEWLY PLACED MATERIAL.
- SLOPED GRANITE CURB TO BE TIPPED DOWN AT ALL DRIVEWAY ENTRANCES BY THE CONTRACTOR.



**BAYBERRY LANE**

Design: JAC Draft: LAZ Date: 04/29/21  
 Checked: JAC Scale: AS NOTED Project No.: 21090  
 Drawing Name: 21090-PLAN.dwg  
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10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ
REV.	DATE	REVISION	BY

Designed and Produced in NH

**J/B Jones & Beach Engineers, Inc.**

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 PO Box 219  
 Stratham, NH 03885

*Civil Engineering Services*

603-772-4746  
 FAX: 603-772-0227  
 E-MAIL: JBE@JONESANDBEACH.COM

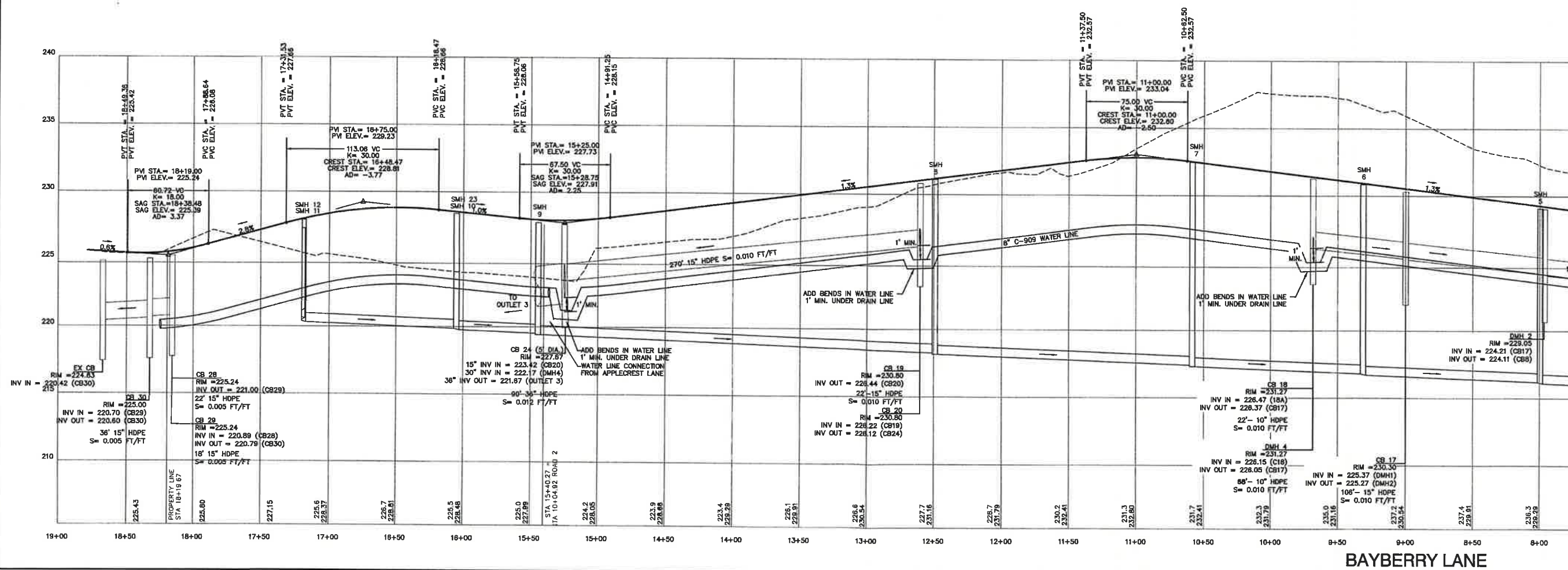
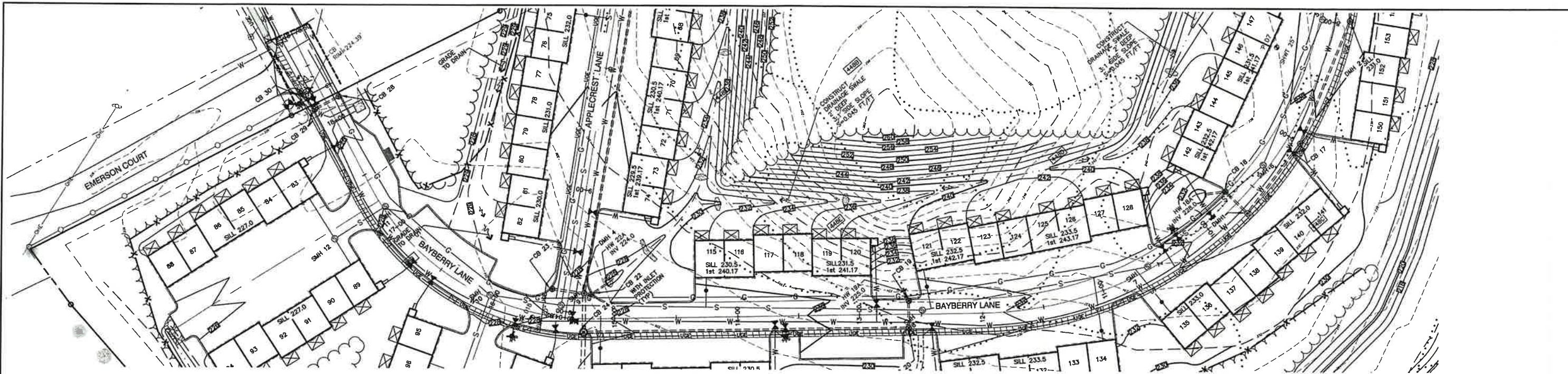
Plan Name:	<b>PLAN AND PROFILE</b>
Project:	<b>BAYBERRY COMMONS</b> 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.

**P1**

SHEET 25 OF 48  
 JBE PROJECT NO. 21090





Design: JAC Draft: LAZ Date: 04/29/21  
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9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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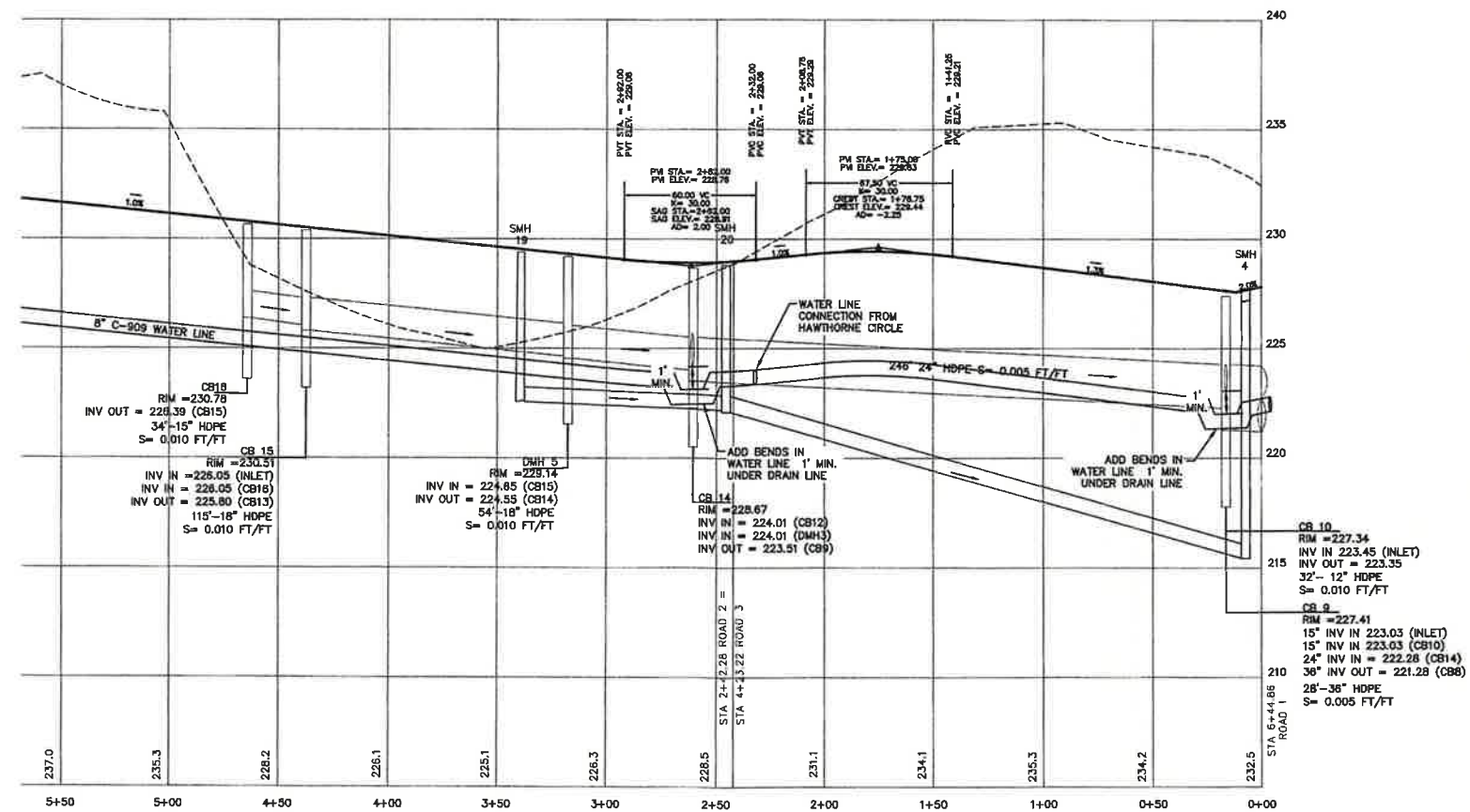
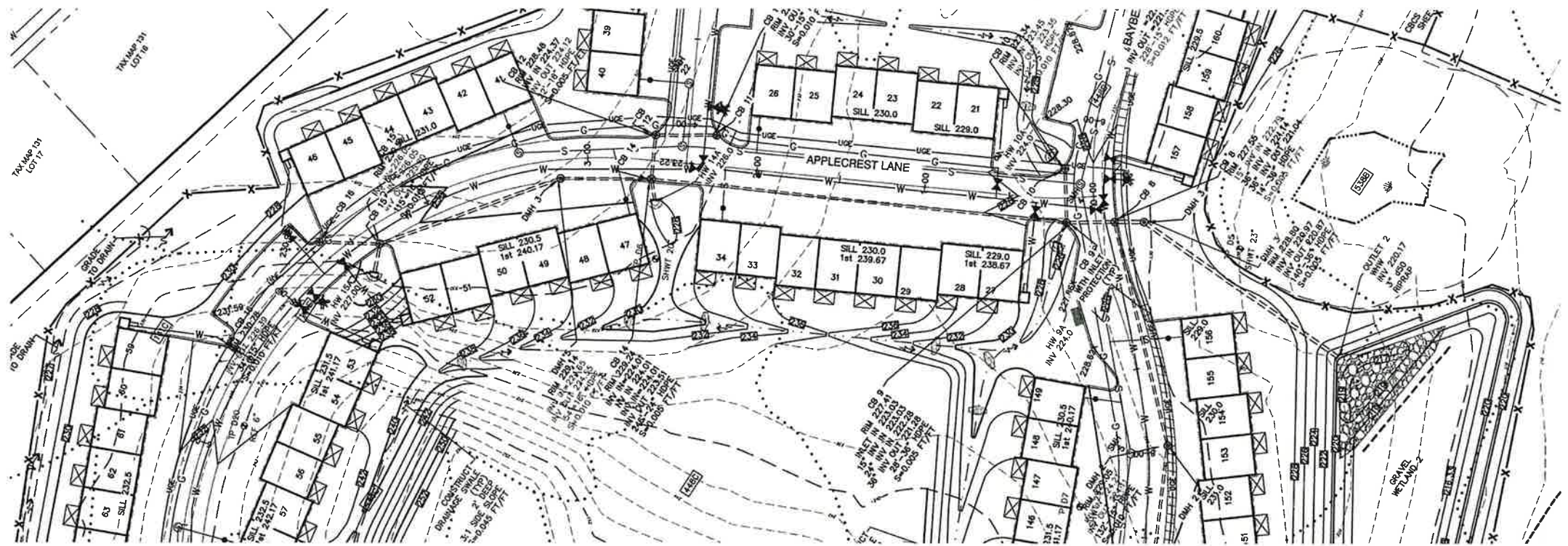
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Plan Name:	<b>PLAN AND PROFILE</b>
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DRAWING No.  
**P2**  
 SHEET 26 OF 48  
 JBE PROJECT NO. 21090





APPLECREST LANE

GRAPHIC SCALE  
( IN FEET )  
1 inch = 40 ft Horiz  
1 inch = 4 ft Vert

Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
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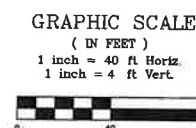
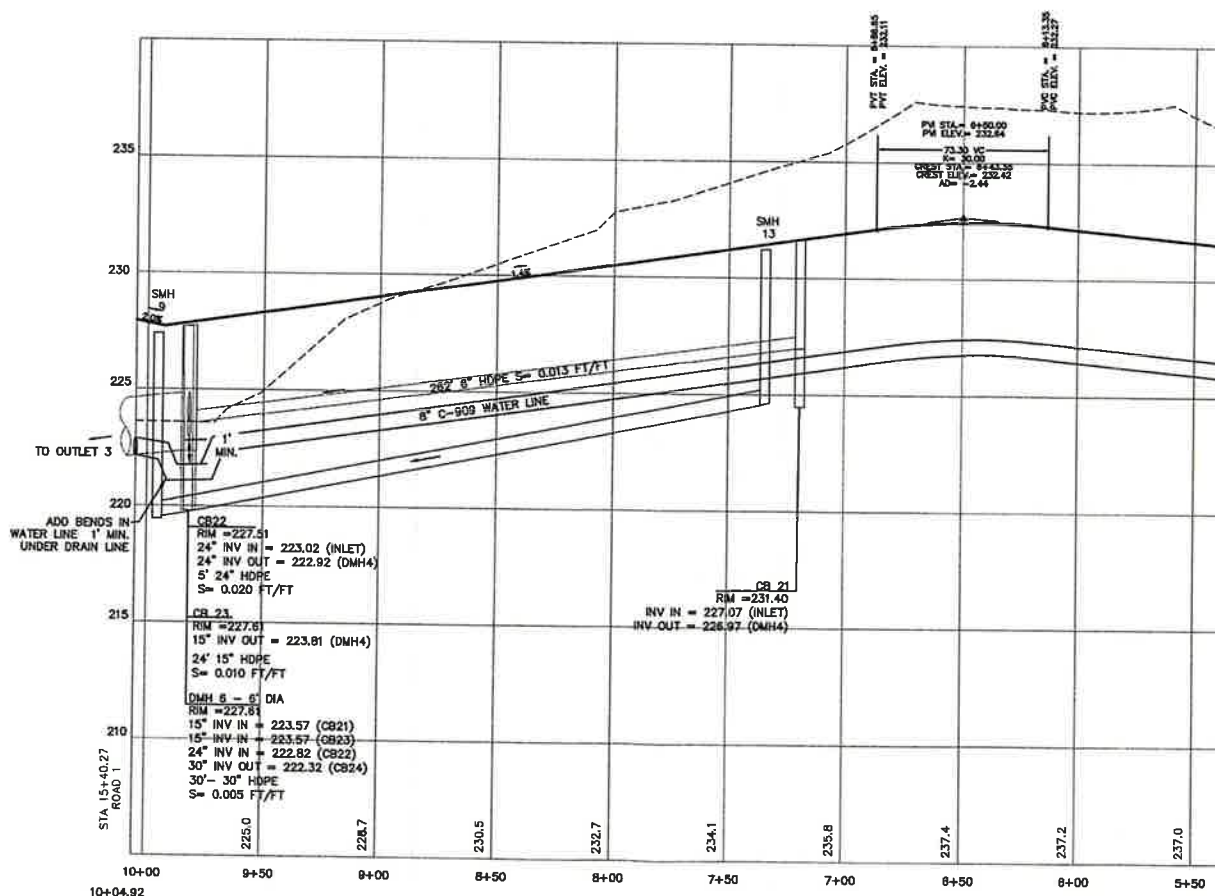
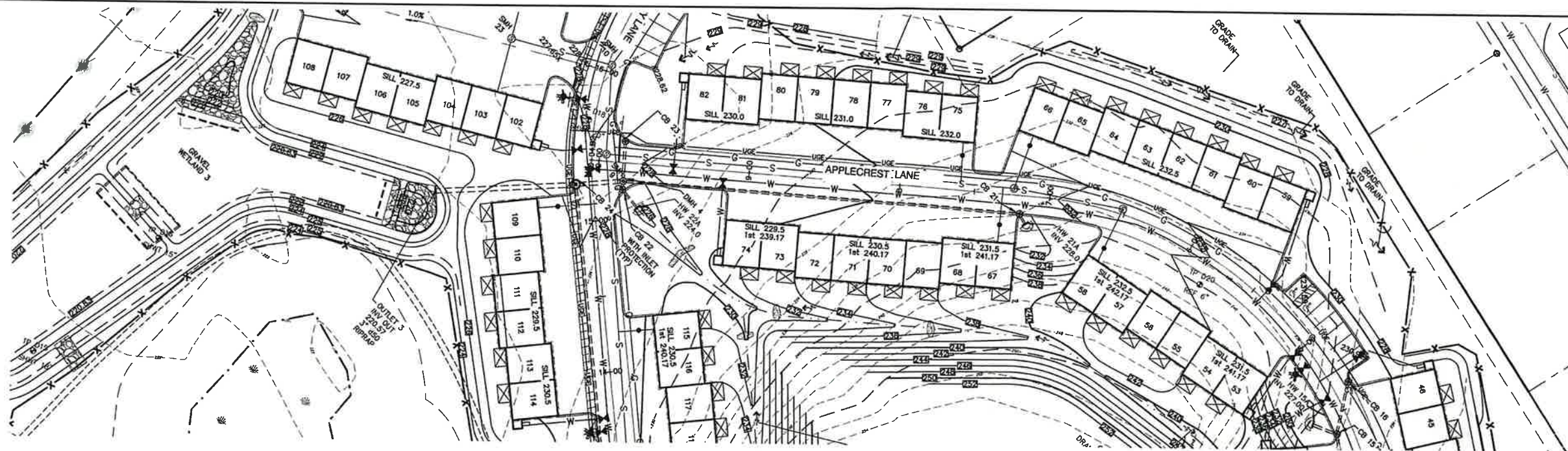
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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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Plan Name: **PLAN AND PROFILE**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**P3**  
SHEET 27 OF 48  
JBE PROJECT NO 21090





APPLECREST LANE

Design: JAC Draft: LAZ Date: 04/29/21  
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 Drawing Name: 21090-PLAN.dwg  
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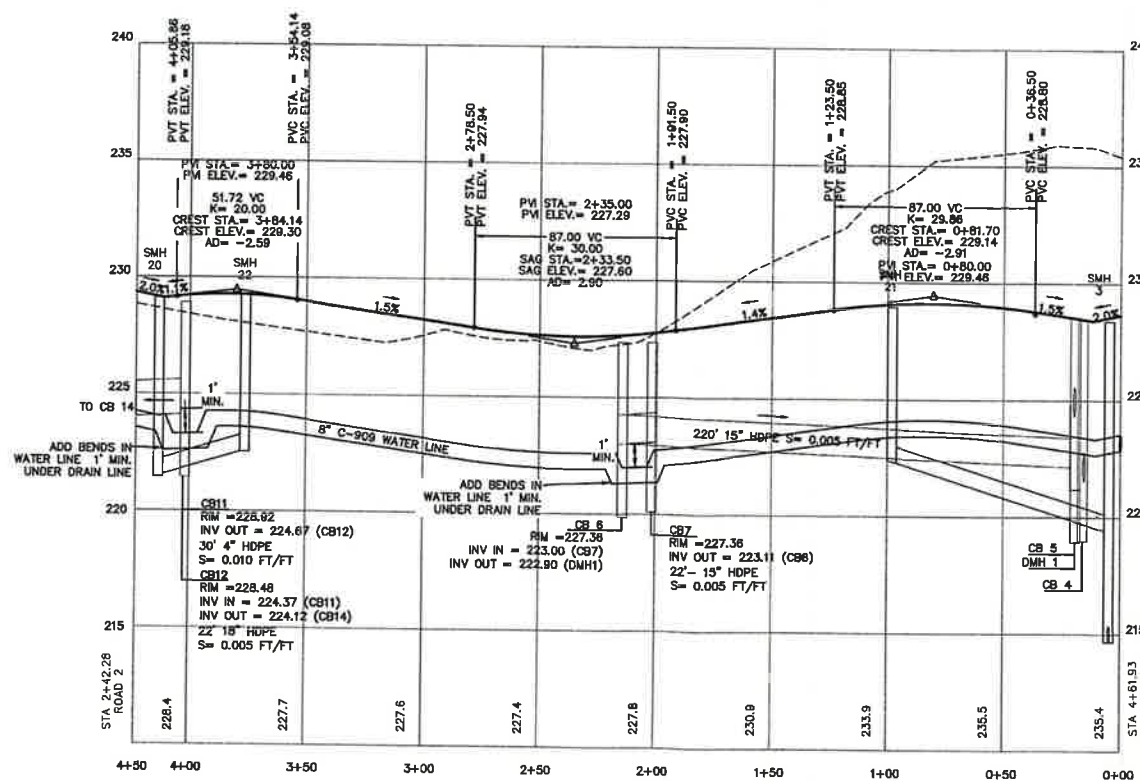
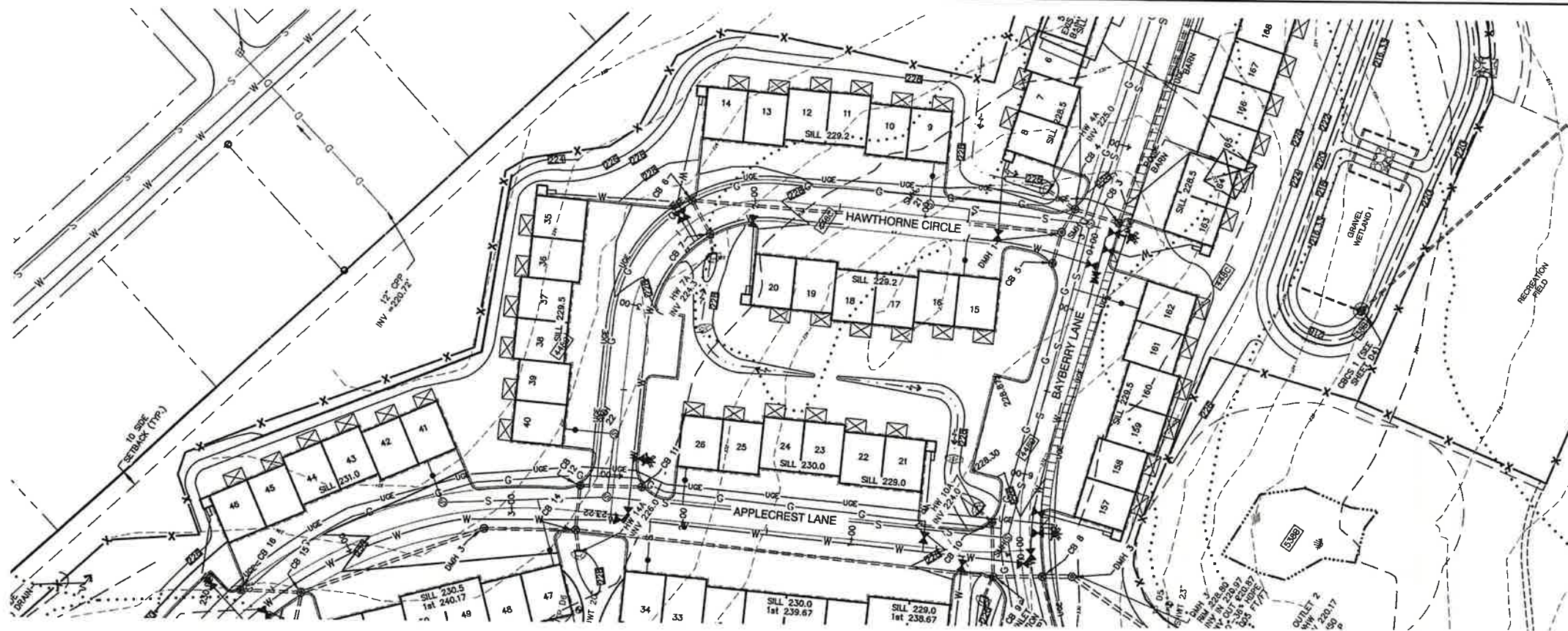
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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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Plan Name: **PLAN AND PROFILE**  
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**19 OLD GONIC ROAD, ROCHESTER, NH**  
 Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
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DRAWING No.  
**P4**  
 SHEET 28 OF 48  
 JBE PROJECT NO. 21090





GRAPHIC SCALE  
( IN FEET )  
1 inch = 40 ft Horiz.  
1 inch = 4 ft Vert.

HAWTHORNE CIRCLE

Design: JAC Draft: LAZ Date: 04/29/21  
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Drawing Name: 21090-PLAN.dwg  
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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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Plan Name: **PLAN AND PROFILE**  
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19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
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DRAWING No.  
**P5**  
SHEET 29 OF 48  
JBE PROJECT NO. 21090

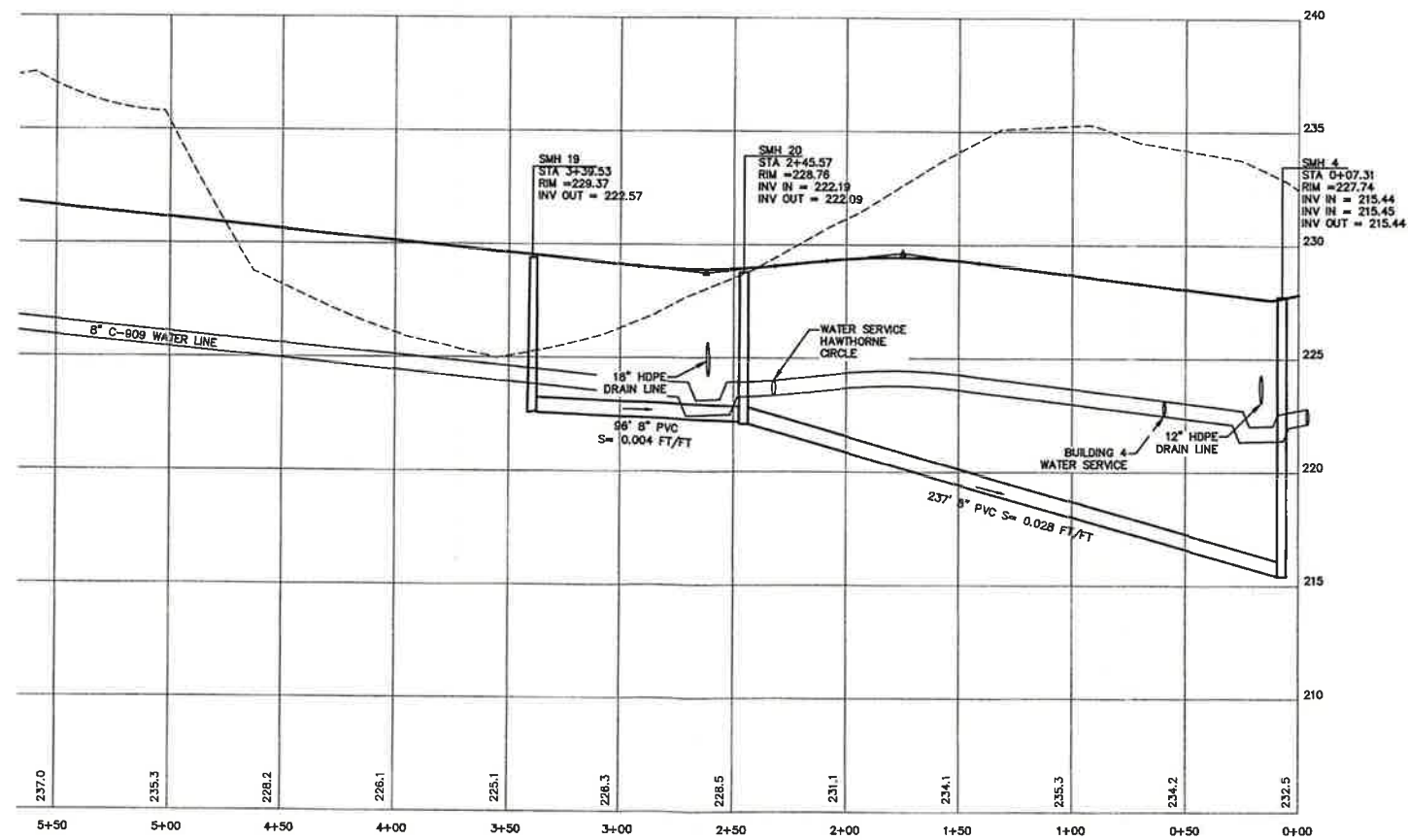
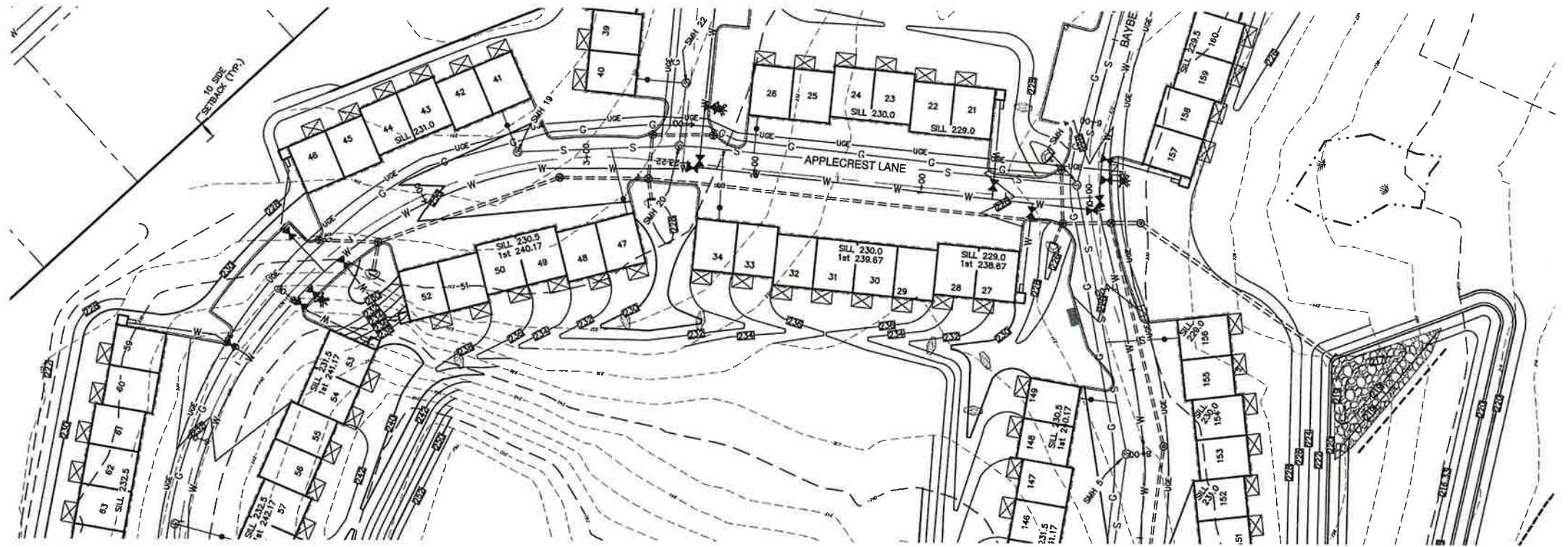




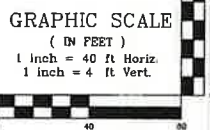








APPLECREST LANE



Design: JAC Draft: LAZ Date: 04/29/21  
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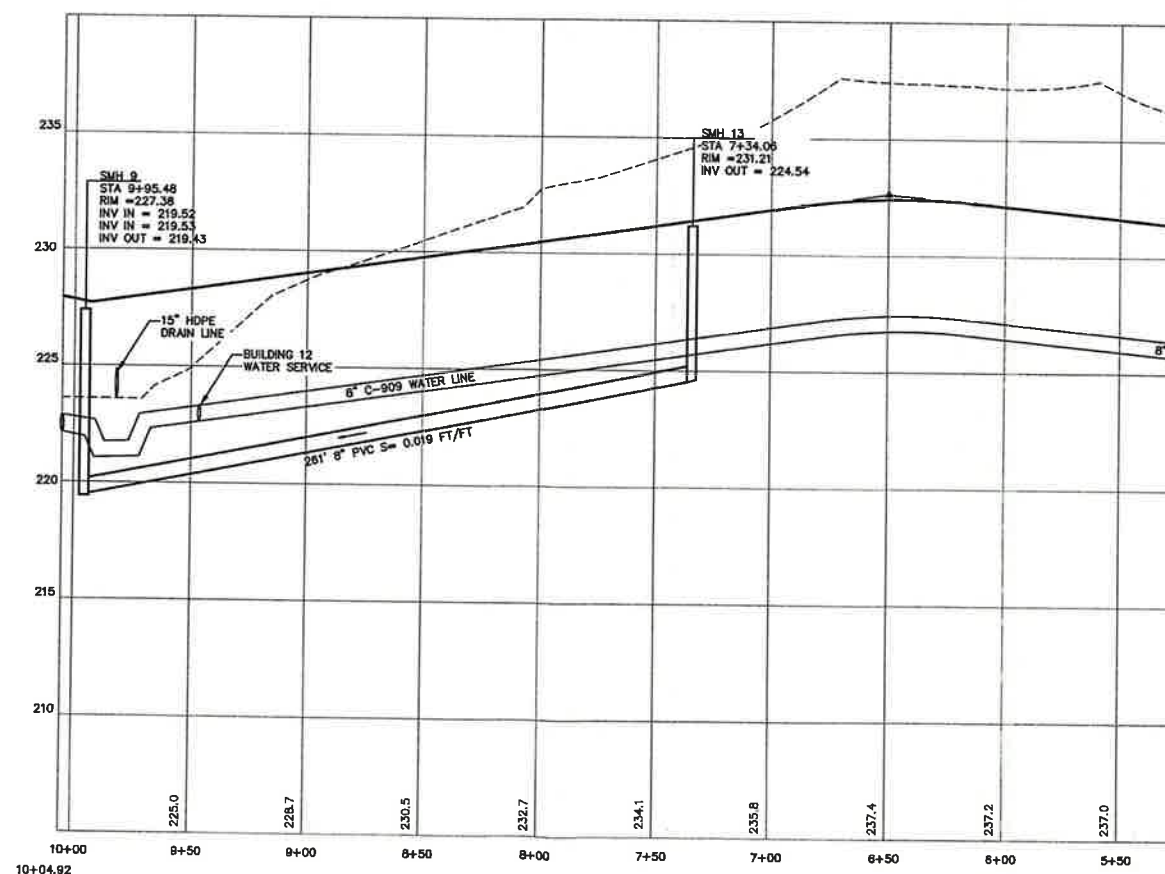
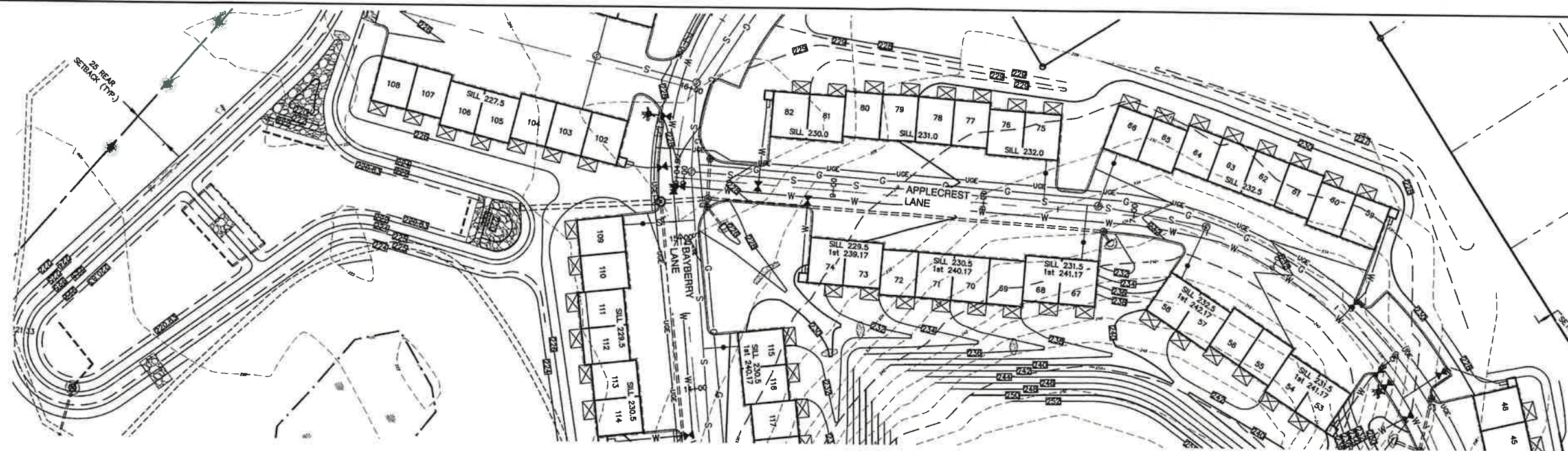
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Plan Name: **SEWER PLAN AND PROFILE**  
Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
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DRAWING No.  
**P8**  
SHEET 32 OF 48  
JBE PROJECT NO. 21090





GRAPHIC SCALE  
( IN FEET )  
1 inch = 40 ft Horiz.  
1 inch = 4 ft Vert.

APPLECREST LANE

Design: JAC Draft: LAZ Date: 04/29/21  
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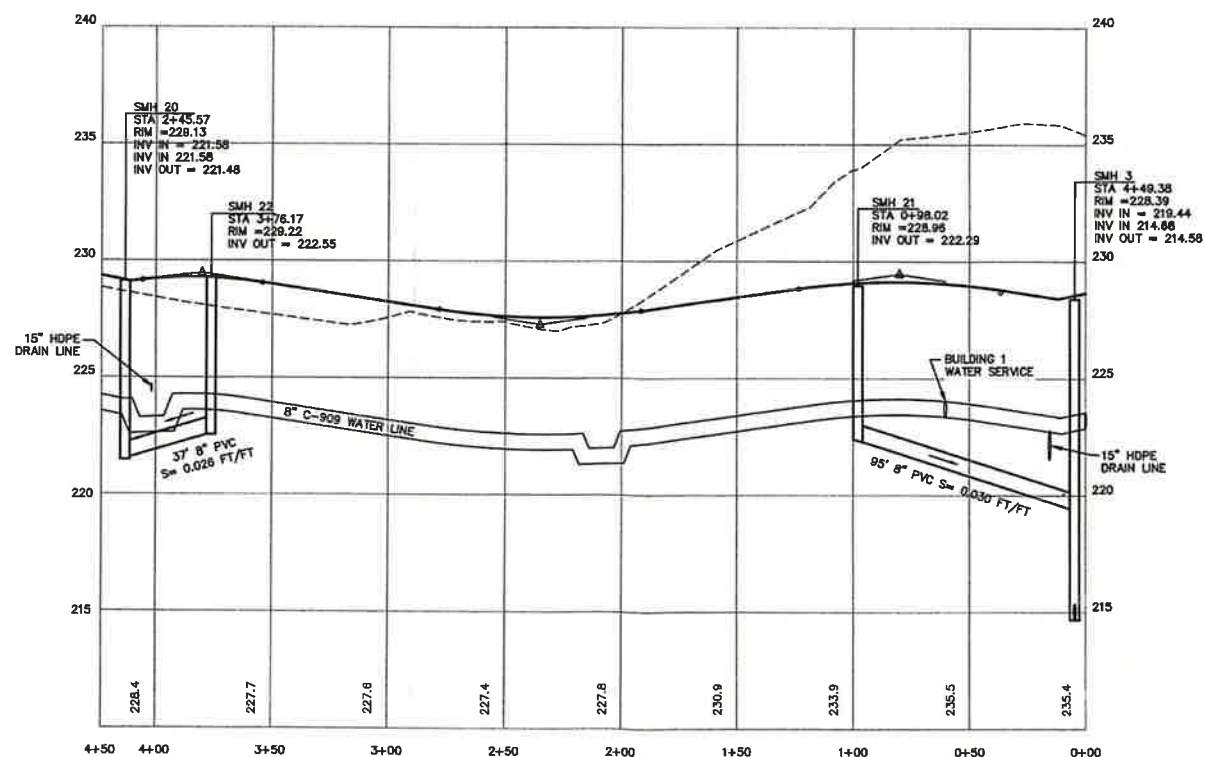
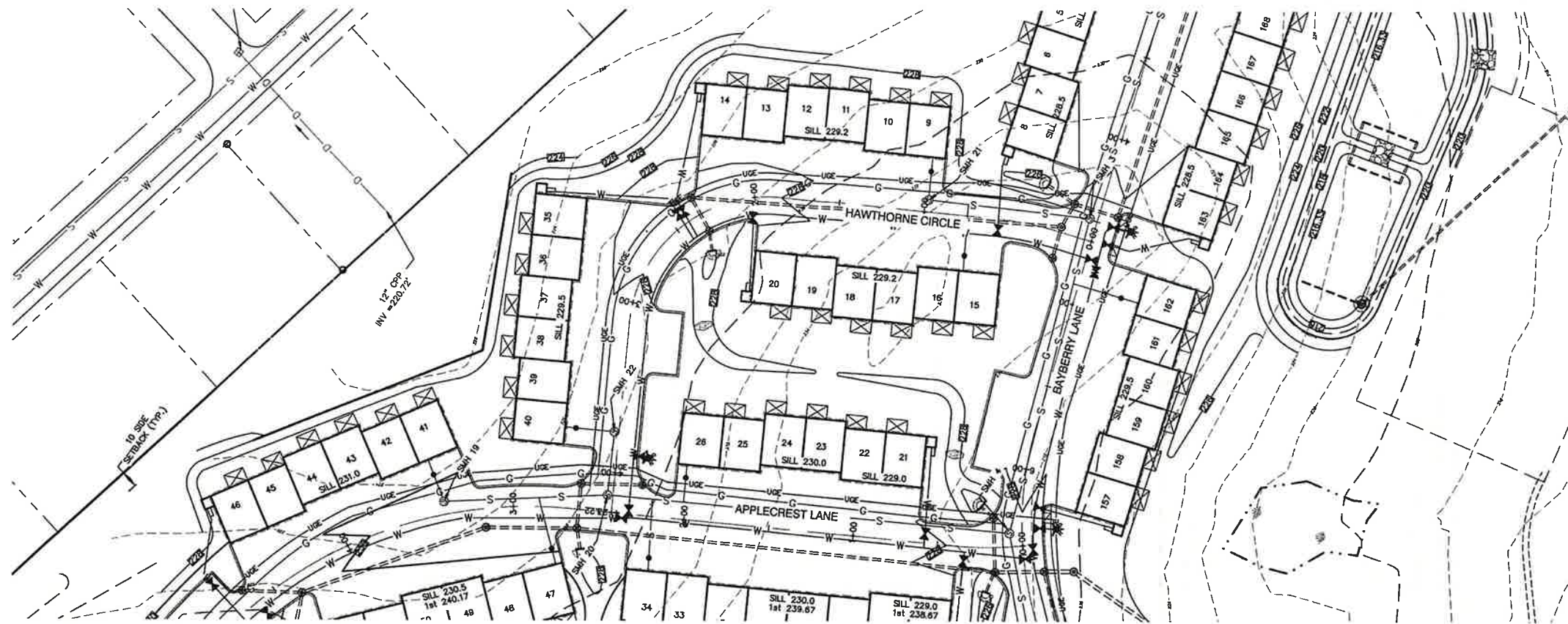
Plan Name: **PLAN AND PROFILE**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.

**P9**

SHEET 33 OF 48  
JBE PROJECT NO. 21090





HAWTHORNE CIRCLE

GRAPHIC SCALE  
( IN FEET )  
1 inch = 40 ft Horiz  
1 inch = 4 ft Vert

Design: JAC Draft: LAZ Date: 04/29/21  
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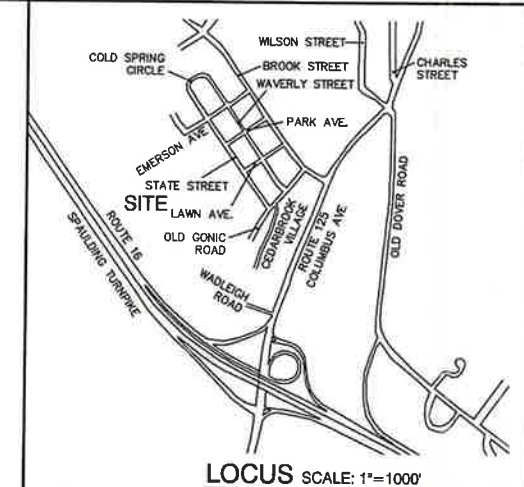
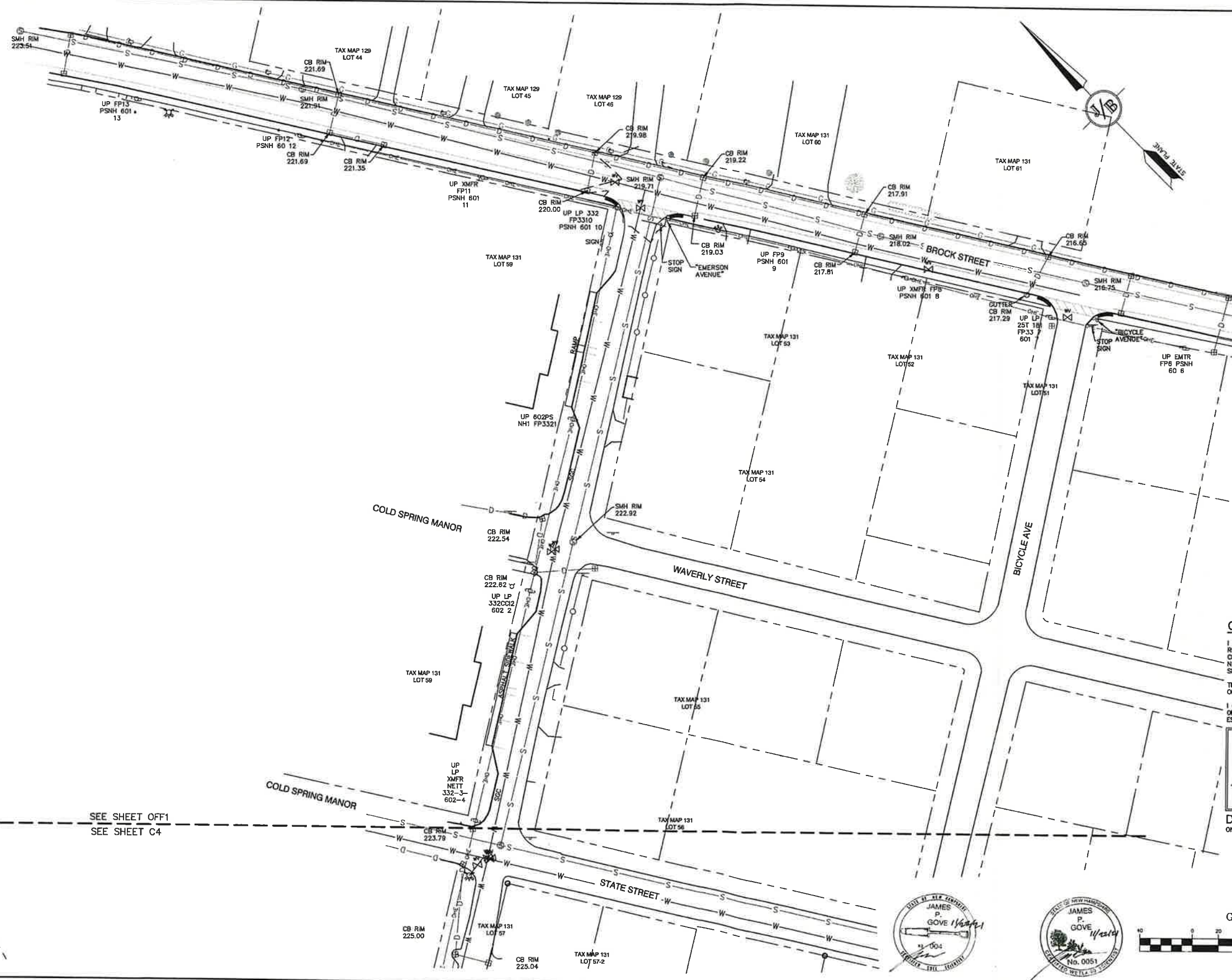
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Plan Name: **SEWER PLAN AND PROFILE**  
Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
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DRAWING No.  
**P10**  
SHEET 34 OF 48  
JBE PROJECT NO. 21090





**SOIL NOTES:**

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR INFILTRATION REQUIREMENTS BY THE NH DES ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. THERE IS A REPORT THAT ACCOMPANIES THIS MAP.

THE SITE SPECIFIC SOIL SURVEY (SSSS) WAS PRODUCED JULY 21, 2021, AND WAS PREPARED BY JAMES P. GOVE, CSS # 004, GOVE ENVIRONMENTAL SERVICES, INC. THE SURVEY AREA IS LOCATED AT 19 OLD GONIC ROAD, ROCHESTER, NH.

SOILS WERE IDENTIFIED WITH THE NEW HAMPSHIRE STATE-WIDE NUMERICAL SOILS LEGEND, USDA NRCS, DURHAM, NH, ISSUE # 10, JANUARY 2011. THE NUMERIC LEGEND WAS AMENDED TO IDENTIFY THE CORRECT SOIL COMPONENTS OF THE COMPLEX.

HYDROLOGIC SOIL GROUP FROM KSAT VALUES FOR NEW HAMPSHIRE SOILS, SOCIETY OF SOIL SCIENTISTS OF NEW ENGLAND, SPECIAL PUBLICATION NO. 5, SEPTEMBER, 2009.

SSSS SYM.	SSSS MAP NAME	HISS SYM.	HYDRO.	SOIL GRP.
953	BOXFORD (SOMEWHAT POORLY DRAINED)	453	C	
38	ELDRIDGE LOAMY SAND	343	C	
141	HOLLIS-ROCK OUTCROP-CHATFIELD	228	D	
448	SCITUATE FINE SANDY LOAM	323	C	
5	ODDORTHERNS, LOAMY	762	N/A	
538	SQUAMSCOTT LOAMY SAND	543	C	

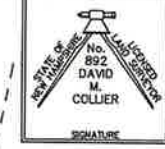
**SLOPE PHASE:**  
0-8% B    8-15% C    15-25% D  
25%+ E

**CERTIFICATION:**

I CERTIFY THAT THIS PLAT WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN UNADJUSTED LINEAR ERROR OF CLOSURE THAT EXCEEDS BOTH THE MINIMUM OF 1:10,000 AS DEFINED IN SECTION 503.04 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES AND THE MINIMUM OF 1:15,000 AS DEFINED IN SECTION 4.2 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

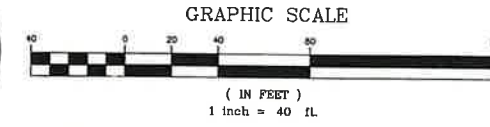
THIS SURVEY CONFORMS TO A CATEGORY 1 CONDITION 1 SURVEY AS DEFINED IN SECTION 4.1 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBMISSION PURSUANT TO THIS TITLE 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.



DAVID M. COLLIER, LLS 892  
ON BEHALF OF JONES & BEACH ENGINEERS, INC.

DATE:



Design: JAC    Draft: LAZ    Date: 04/29/21  
Checked: JAC    Scale: AS NOTED    Project No.: 21090  
Drawing Name: 21090-PLAN.dwg

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12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

**J/B Jones & Beach Engineers, Inc.**  
85 Portsmouth Ave.  
PO Box 219  
Stratham, NH 03885

Designed and Produced in NH  
**Civil Engineering Services**  
603-772-4746  
FAX: 603-772-0227  
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **OFFSITE EXISTING CONDITIONS PLAN**

Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**

Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

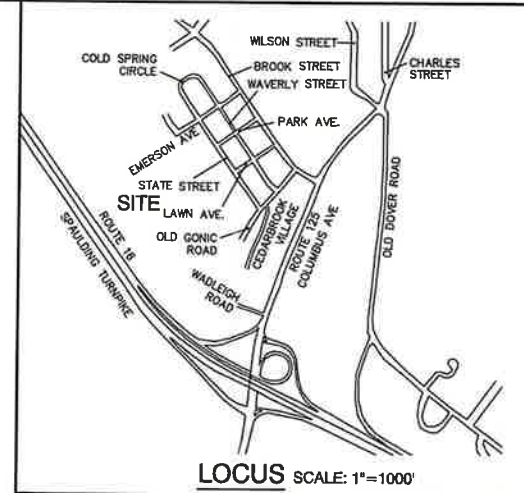
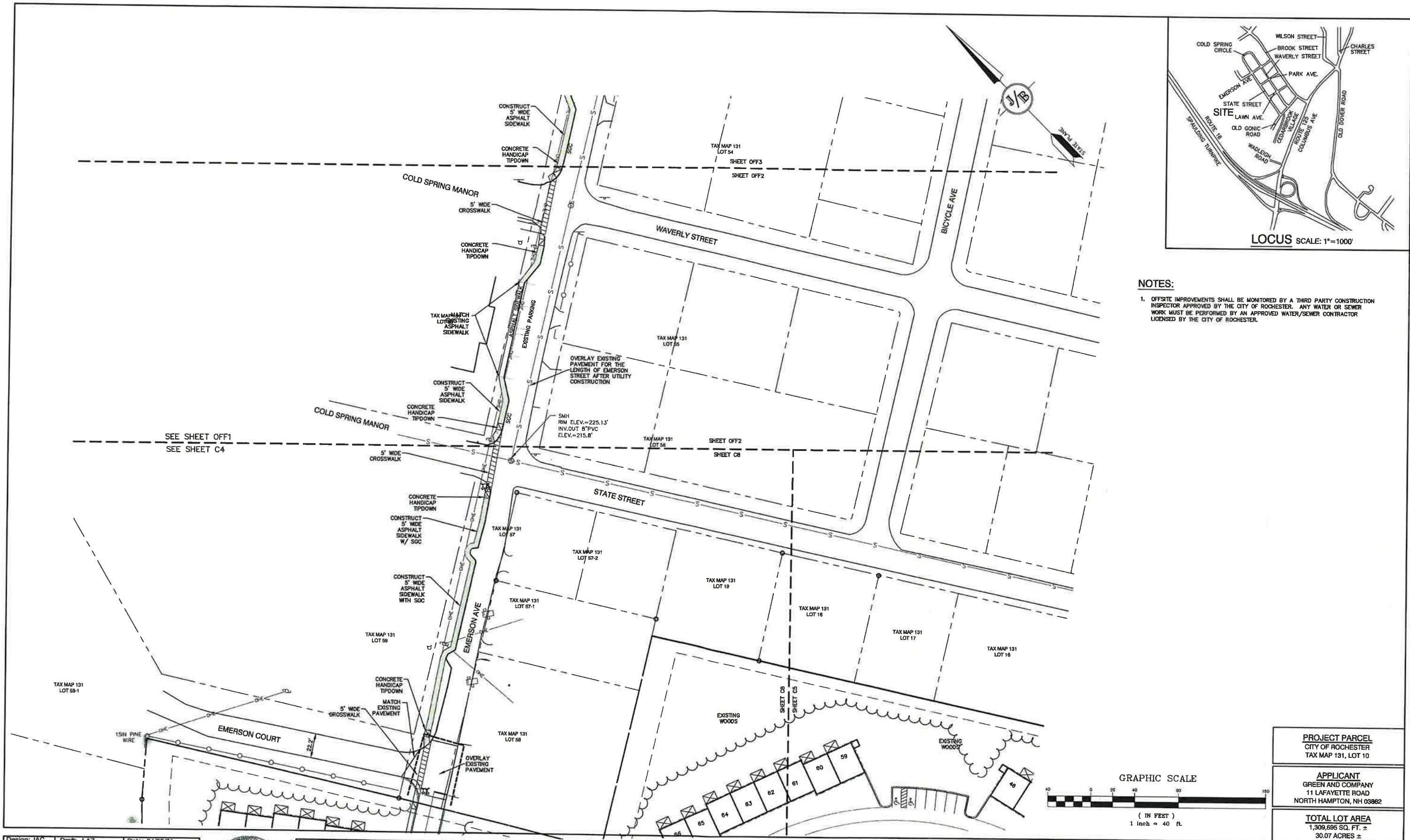
PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

DRAWING No.  
**OFF1**  
SHEET 35 OF 48  
JBE PROJECT NO. 21090





- NOTES:**
- OFFSITE IMPROVEMENTS SHALL BE MONITORED BY A THIRD PARTY CONSTRUCTION INSPECTOR APPROVED BY THE CITY OF ROCHESTER. ANY WATER OR SEWER WORK MUST BE PERFORMED BY AN APPROVED WATER/SEWER CONTRACTOR LICENSED BY THE CITY OF ROCHESTER.

Design: JAC Draft: LAZ Date: 04/29/21  
 Checked: JAC Scale: AS NOTED Project No.: 21090  
 Drawing Name: 21090-PLAN.dwg  
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 85 Portsmouth Ave. PO Box 219 Stratham, NH 03885  
 Civil Engineering Services  
 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **OFFSITE SITE PLAN**  
 Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
 Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

**PROJECT PARCEL**  
 CITY OF ROCHESTER  
 TAX MAP 131, LOT 10

**APPLICANT**  
 GREEN AND COMPANY  
 11 LAFAYETTE ROAD  
 NORTH HAMPTON, NH 03862

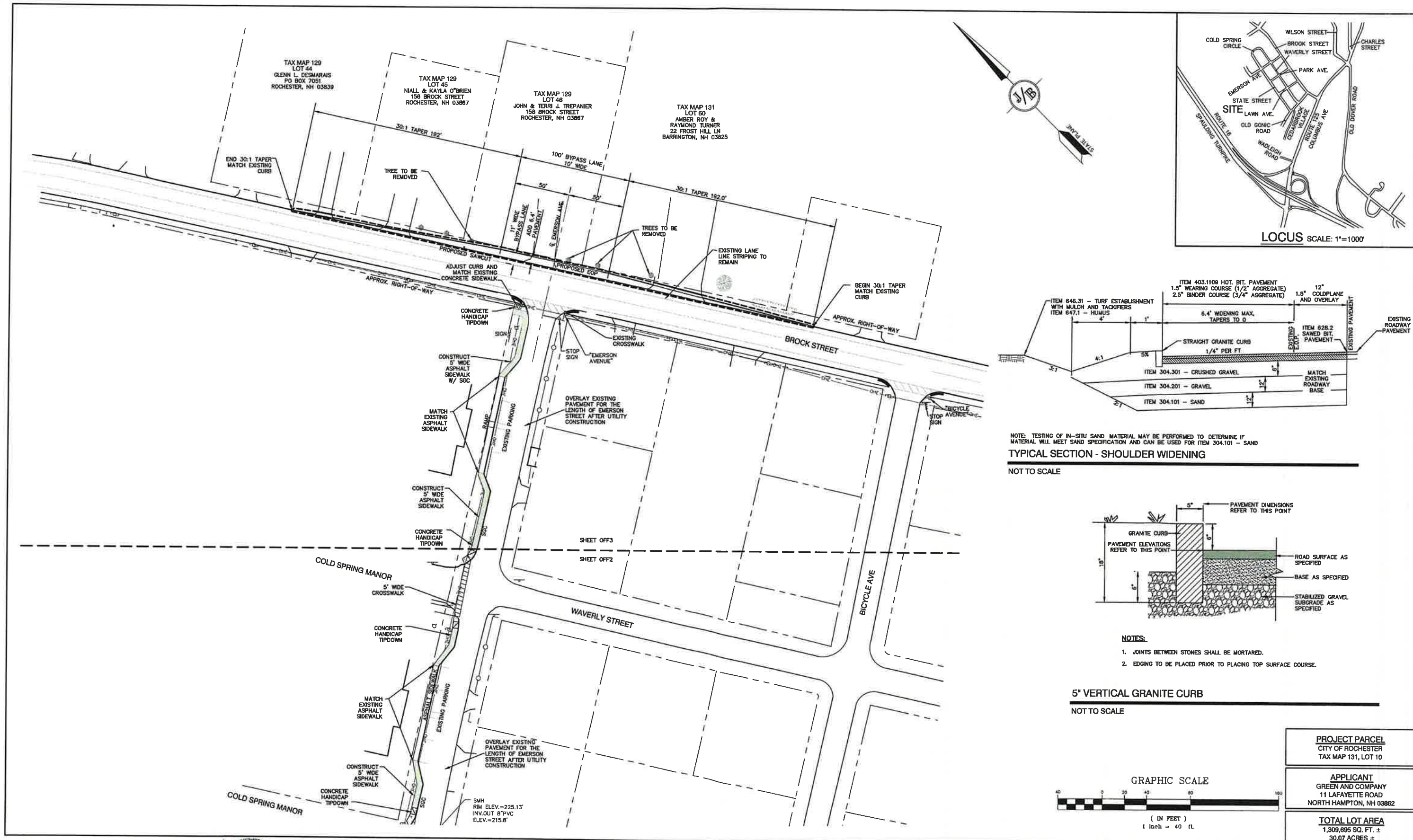
**TOTAL LOT AREA**  
 1,309,695 SQ. FT. ±  
 30.07 ACRES ±

DRAWING No.

**OFF2**

SHEET 36 OF 48  
 JBE PROJECT NO. 21090





Design: JAC Draft: LAZ Date: 04/29/21  
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Drawing Name: 21090-PLAN.dwg

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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

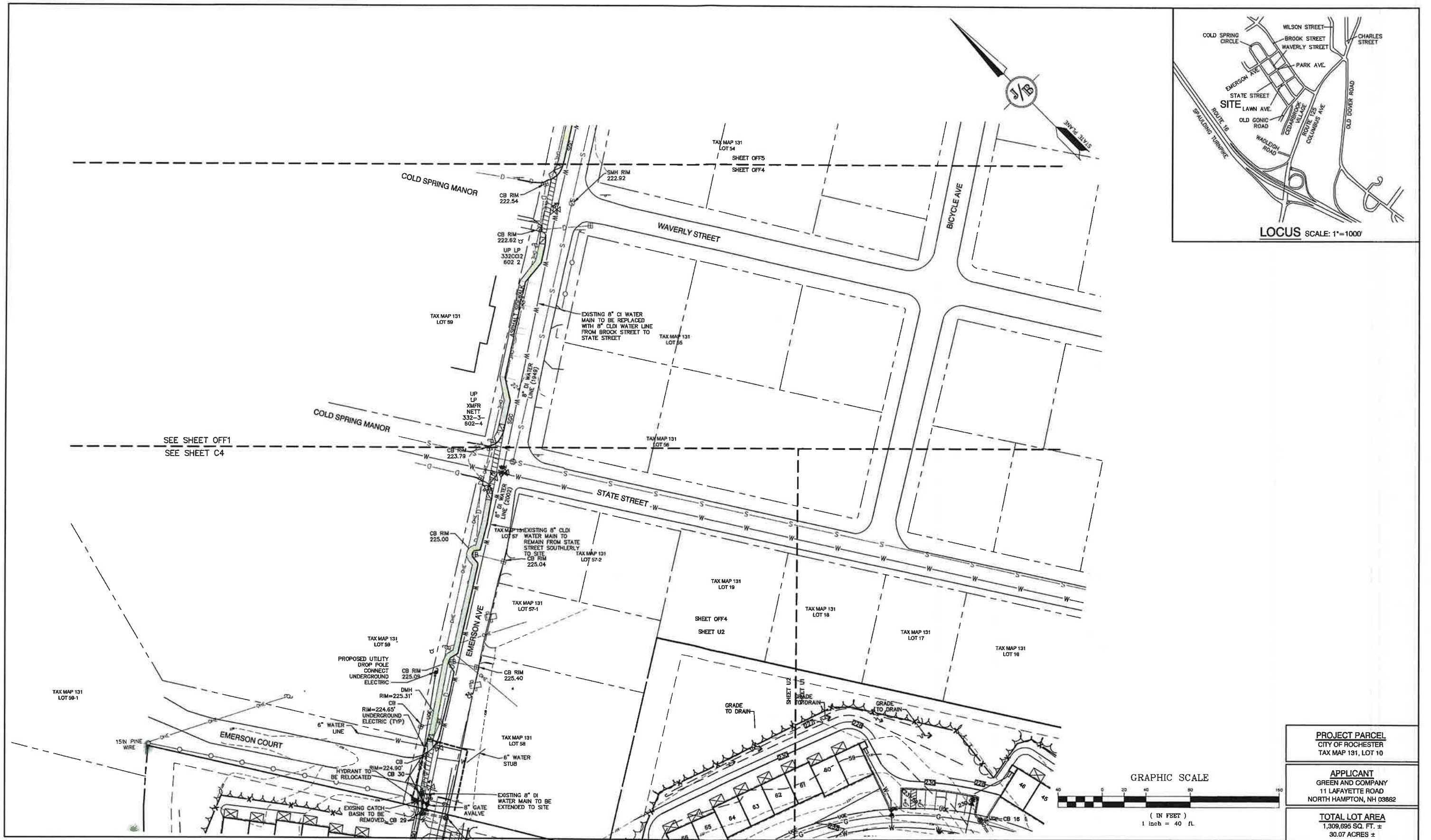
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FAX: 603-772-0227  
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Plan Name: **OFFSITE SITE PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**OFF3**  
SHEET 37 OF 48  
JBE PROJECT NO. 21090





Design: JAC Draft: LAZ Date: 04/29/21  
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9	8/29/22	REVISED PER NHDES AGT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

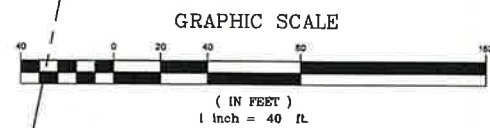
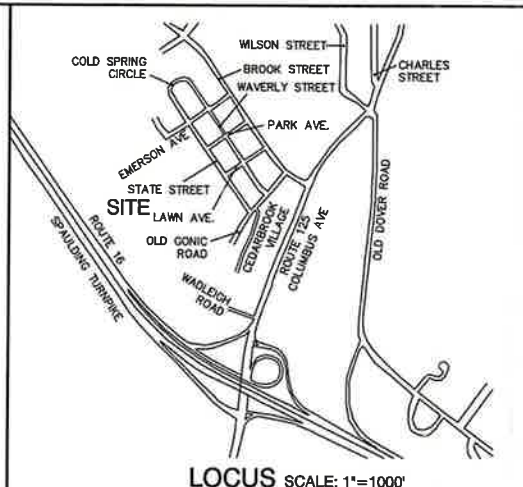
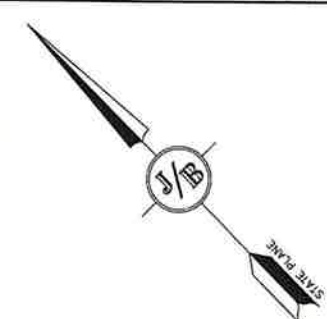
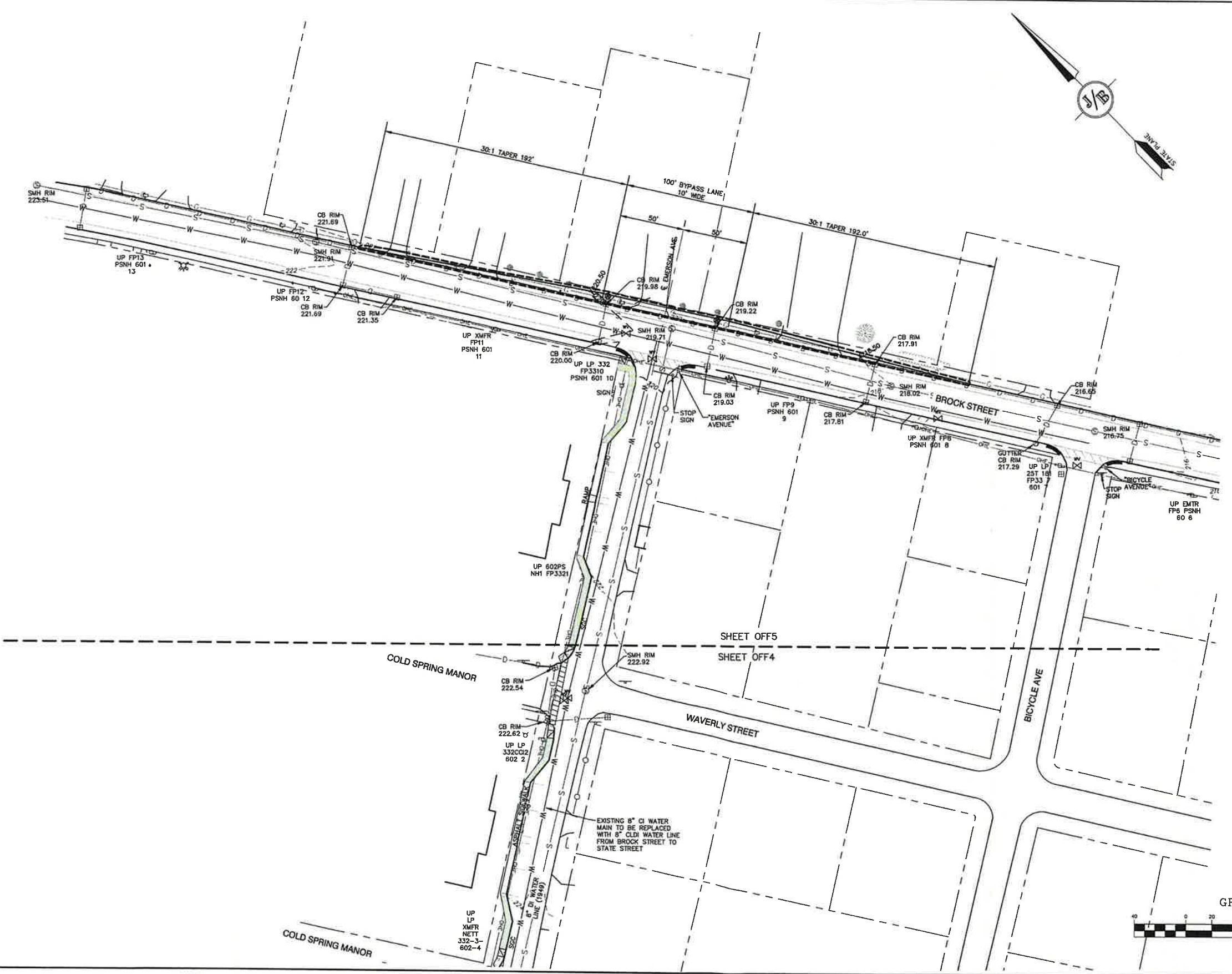
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 85 Portsmouth Ave. P.O. Box 219 Stratham, NH 03885  
 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **OFFSITE GRADING AND UTILITY PLAN**  
 Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
 Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**OFF4**  
 SHEET 36 OF 48  
 JBE PROJECT NO. 21090

**PROJECT PARCEL**  
 CITY OF ROCHESTER  
 TAX MAP 131, LOT 10  
**APPLICANT**  
 GREEN AND COMPANY  
 11 LAFAYETTE ROAD  
 NORTH HAMPTON, NH 03862  
**TOTAL LOT AREA**  
 1,309,695 SQ. FT. ±  
 30.07 ACRES ±





PROJECT PARCEL CITY OF ROCHESTER TAX MAP 131, LOT 10
APPLICANT GREEN AND COMPANY 11 LAFAYETTE ROAD NORTH HAMPTON, NH 03862
TOTAL LOT AREA 1,309,695 SQ. FT. ± 30.07 ACRES ±

Design: JAC Draft: LAZ Date: 04/29/21  
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 Drawing Name: 21090-PLAN.dwg  
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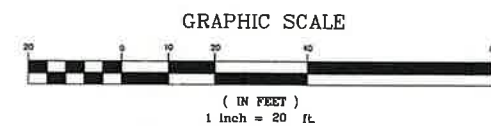
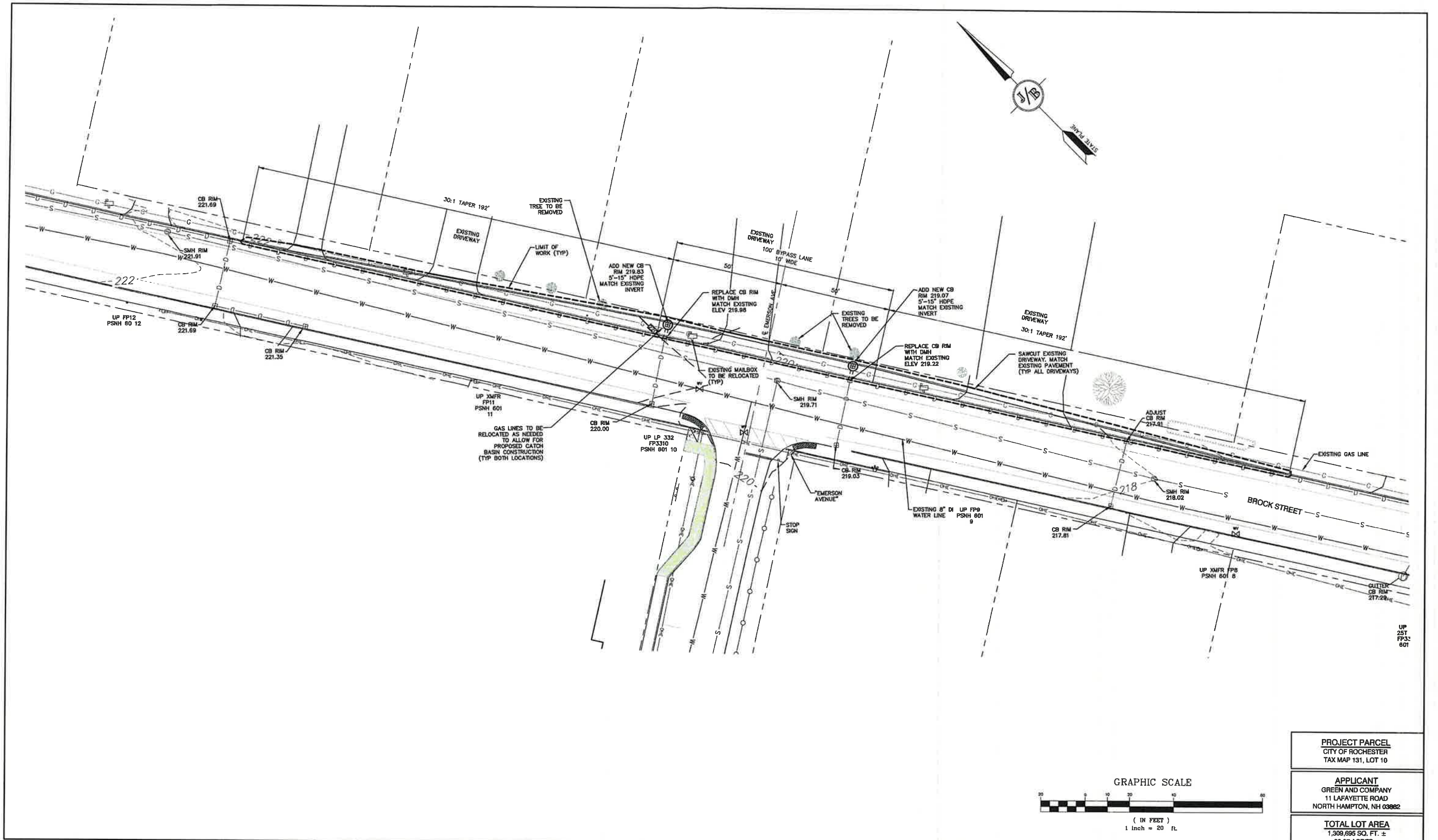
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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

**J/B Jones & Beach Engineers, Inc.**  
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 Stratham, NH 03885  
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 FAX: 603-772-0227  
 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	OFFSITE GRADING AND UTILITY PLAN
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.  
**OFF5**  
 SHEET 39 OF 48  
 JBE PROJECT NO. 21090





**PROJECT PARCEL**  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

**APPLICANT**  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

**TOTAL LOT AREA**  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg  
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Plan Name: **OFFSITE GRADING AND UTILITY PLAN**  
Project: **BAYBERRY COMMONS  
19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE  
19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**OFF6**  
SHEET 40 OF 48  
JBE PROJECT NO. 21090



### STOP SIGN (R1-1)

NOT TO SCALE

1. THE MAXIMUM ALLOWABLE CROSS SLOPE OF ACCESSIBLE ROUTE (SIDEWALK) AND CURB SHALL BE 1.5%.
2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE (INCLUDING CURB RAMPS) SHALL BE 5%.
3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE (SIDEWALK) CURB RAMPS SHALL BE 8%.
4. A MINIMUM OF 4 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (i.e., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
5. CURB TREATMENT WAIVES. SEE PLANS FOR CURB TREATMENT.
6. BASE OF RAMP SHALL BE GRADED TO PREVENT POUDING.
7. SEE TYPICAL SECTION FOR RAMP CONSTRUCTION.

NOT TO SCALE

DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES AND SHALL COMPLY WITH THE FOLLOWING:

- A. TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.8" (MIN.) AND 1.4" (MAX.). A TOP DIAMETER OF 0.2" OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2".
- B. TRUNCATED DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6" (MIN.) AND 2.4" (MAXIMUM).
- C. THE HEIGHT OF THE TRUNCATED DOMES SHALL BE 1.5" MAXIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.

DETECTABLE DOMES SHALL BE CAST IRON PER RHODT SPECIFICATIONS.

DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

TRUNCATED DOMES TO BE PLACED IN SIDEWALK BASE IN PUBLIC TRAFFIC AREAS.

### ACCESSIBLE CURB RAMP TRUNCATED DOMES

BIT. SIDEWALK W/ VERTICAL GRANITE CURB

NOT TO SCALE

NOTES:

1. TRANSVERSE CROSSWALK LINES SHALL BE THERMOPLASTIC, NOT LESS THAN 6" WIDE AND NOT LESS THAN 6' APART.
2. SPACING FOR THE CONTINENTAL CLOCK MARKINGS SHALL BE UNIFORM FOR EACH INDIVIDUAL CROSSWALK BUT CAN BE MODIFIED FOR ONE CROSSWALK TO THE NEXT TO ELIMINATE A CROSSWALK MARKING DIRECTLY IN THE WHEELPATH.

### NHDOT CONTINENTAL BLOCK MARKING DETAIL

NOT TO SCALE

## HANDICAP SIGN DETAILS

NOT TO SCALE

12"

18"

REFLECTIVE ALUMINUM  
LEGEND AND BORDER - GREEN  
WHITE SYMBOL ON BLUE BACKGROUND  
BACKGROUND - WHITE  
TYPICAL AT ALL HANDICAP SPACES

VAN  
ACCESSIBLE

THIS SIGN TYPICAL AT ALL "VAN  
ACCESSIBLE" PARKING SPACES

PENALTY SIGN WITH WORDING AS  
REQUIRED BY STATE OR LOCAL LAW

GALVANIZED "U" CHANNEL POST

5'-0" TO BOTTOM OF  
LOWEST REQUIRED SIGN

3'-0"

4" DIA. SCH 40 GALVANIZED  
STEEL PIPE BOLLARD PAINTED  
OSHA YELLOW FILLED WITH CONCRETE

PAINT CONCRETE BLACK AFTER  
CURING AT ASPHALT LOCATIONS

4000 PSI CONCRETE

2'-0"

1'-0"

NOTES:

- ONE AT EACH HANDICAP SPACE.
- WHERE HANDICAP SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST WITH SIGNS MOUNTED BOTH SIDES.

### HANDICAP PARKING SIGN (R7-8)

NOT TO SCALE

Diagram illustrating the standard accessible parking space layout and dimensions:

- Signage:** SIGN POST WITH SIGNS PLACED IN FRONT OF HANDICAP SPACES, (1'-3\"
- Dimensions:**
  - SEE SITE PLAN FOR DIMENSION
  - 96\"
  - 60\"
  - 96\"
- Accessibility Features:**
  - NATIONAL STANDARD ACCESSIBILITY SYMBOL PAINTED ON PAVEMENT. WHITE FIGURE ON BLUE BACKGROUND
  - 4\"
- Pavement Slope:** PAVEMENT MAXIMUM SLOPE 2% IN ALL DIRECTIONS.

## HANDICAP PARKING LAYOUT

NOT TO SCALE

1" HOT BIT. PAVEMENT WEARING COURSE

2" HOT BIT PAVEMENT BINDER COURSE

6" NHDOT ITEM 304.3 CRUSHED GRAVEL 95% MIN. COMPACTION INCLUDING RECLAIMED MATERIAL

12" - NHDOT ITEM 304.2 BANK RUN GRAVEL (MIN.) 95% MIN. COMPACTION

95% COMPACTED SUBGRADE OR ROCK FILL

### TYPICAL BITUMINOUS PAVEMENT

NOT TO SCALE

Diagram illustrating the construction of a road cross-section, showing the removal of existing pavement and the placement of new layers. The diagram includes the following labels and dimensions:

- SAWCUT AND REMOVE EXIST. PAVEMENT.**
- COAT EXPOSED EDGES OF EXISTING PAVT. WITH BIT. EMULSION PRIOR TO PLACING ABUTTING PAVEMENT**
- 1'-0" KEYWAY**
- 1" TOP COURSE**
- 2" BINDER COURSE**
- 6" CRUSHED GRAVEL**
- 12" MIN. GRAVEL**
- BINDER COURSE**
- BASE COURSE**

KEYWAY DETAIL FOR CONNECTION  
TO EXISTING PAVEMENT

NOT TO SCALE

4' MINIMUM LOAM & SEED

2:1 MAX

3' SHOULDER

12' TO FACE OF CURB

SLOPED GRANITE CURB  
S=1/4" PER FT

12' TO FACE OF CURB

3' SHOULDER

2:1 MAX

APPROXIMATE EXISTING GRADE

4%

12" MIN. BANKRUN GRAVEL  
(NHDOT ITEM 304.2)

6" CRUSHED GRAVEL  
(NHDOT ITEM 304.3)

COMPACTED SUBGRADE

PERFORATED PVC UNDERDRAIN W/  
N CRUSHED STONE AND WRAPPED  
W/ FILTER FABRIC AS REQUIRED  
AND ORDERED BY CITY

30"

TWO COURSES BITUMINOUS CONCRETE  
1" WEARING COURSE ROLLED (NHDOT TYPE F - PRIVATE ROADS)  
1.5" WEARING COURSE (NHDOT TYPE F - CITY ROADS)  
2" BINDER COURSE ROLLED (NHDOT TYPE B - PRIVATE ROADS)  
2.5" BINDER COURSE ROLLED (NHDOT TYPE B - CITY ROADS)

APPROXIMATE LOCATION OF ELECTRIC, TELEPHONE,  
FIRE ALARM AND CABLE TV LINES. RISERS AND  
PEDESTALS TO BE LOCATED OUTSIDE OF DITCH LINE  
AND ROW. 30" MIN. (DEPTH PER UTILITY COMPANY)  
AND 18' RECOMMENDED FROM CENTERLINE.

**NOTES:**

1. REMOVE ALL ORGANICS, TOPSOIL AND MATERIAL YIELDING TO A 10 TON ROLLER. SUBBASE AREAS THAT CONTAIN UNSUITABLE MATERIALS MUST BE EXCAVATED TO A DEPTH NO LESS THAN 36" BELOW FINISH GRADE AND BE REPLACED WITH GRAVEL. COMPACTED TO 95%.
2. ALL MATERIALS TO BE AS SPECIFIED PER CITY STANDARDS AND NHDOT, WHICHEVER IS MOST STRINGENT. GRADATION AND COMPACTION TEST RESULTS (95% MIN.) SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
3. CITY MAY REQUIRE UNDERDRAIN, ADDITIONAL GRAVEL AND/OR ADDITIONAL DRAINAGE IF SOIL CONDITIONS WARRANT.
4. WOVEN GEOTEXTILE FABRIC SHALL BE PLACED ABOVE SUBGRADE AT ALL WETLAND CROSSINGS.

**TYPICAL ROADWAY SECTION W/CURBING (PRIVATE ROADS)**

NOT TO SCALE

The diagram shows a cross-section of a road structure with three distinct layers. The top layer is a thin, dense layer of small, light-colored particles. The middle layer is a thicker layer of larger, rounded, light-colored stones. The bottom layer is a thin, dark, textured layer. To the right of the diagram, two lines point to the top and middle layers. Below the diagram, text describes the bottom layer.

N.H.D.O.T. ITEM 304.3  
6" CRUSHED GRAVEL  
95% COMPACTION (MIN)

N.H.D.O.T. ITEM 304.2  
12" BANK RUN  
GRAVEL MIN. OR AS  
REQUIRED TO STABILIZE  
95% COMPACTION (MIN)

COMPACTED SUB GRADE  
OR ROCK FILL

NOTE: IN AREAS OF ROCK EXCAVATION,  
MINIMUM 9" BANK RUN GRAVEL SHALL BE PLACED

### GRAVEL SECTION

NOT TO SCALE

NOTES:

1. CURB TO BE PLACED PRIOR TO PLACING TOP SURFACE COURSE.
2. JOINTS BETWEEN STONES SHALL BE MORTARED.

**SLOPED GRANITE CURB**

NOT TO SCALE

Design: JAC	Draft: LAZ	Date: 04/29/21
Checked: JAC	Scale: AS NOTED	Project No.: 21090
Drawing Name: 21090-PLAN.dwg		

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REV.	DATE	REVISION	BY

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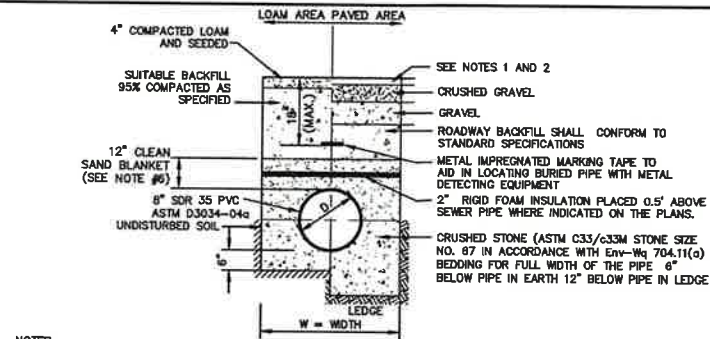
Plan Name:	DETAIL SHEET
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.

**D1**

SHEET 41 OF 48  
JBE PROJECT NO. 21090

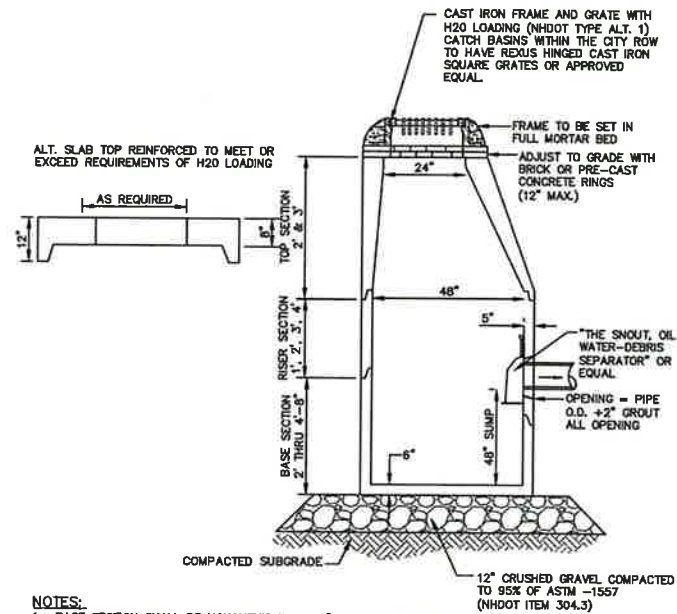




- NOTES:**
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO PAVEMENT DETAILS.
  2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.
  3. TRENCH BACKFILL SHALL CONFORM WITH ENV. WQ 704.11(h) AND BE FREE OF DEBRIS, PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE OR ROCKS OVER SIX INCHES.
  4. W= MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12" INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, WIDTH SHALL BE NO MORE THAN 30"; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, WIDTH SHALL BE 24 INCHES PLUS PIPE O.D. WIDTH SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
  5. RIGID FOAM INSULATION TO BE PROVIDED WHERE COVER IN THE ROADWAY IS LESS THAN 6" AND CROSS COUNTRY IS LESS THAN 4", PURSUANT TO DES WAIVER BEING ISSUED.
  6. PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND, FREE FROM ORGANIC MATERIALS, GRADED SUCH THAT 100% PASSES A 1/2" SIEVE AND A MAXIMUM OF 15% PASSES A #200 SIEVE IN ACCORDANCE WITH ENV-WQ 704.11(b).
  7. JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL AND CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE ASTM D3212 STANDARD IN EFFECT WHEN THE JOINT SEALS WERE MANUFACTURED, AND SHALL BE PUSH-ON, BELL-AND-SPIGOT TYPE PER ENV-WQ 704.05 (a).

### SEWER TRENCH

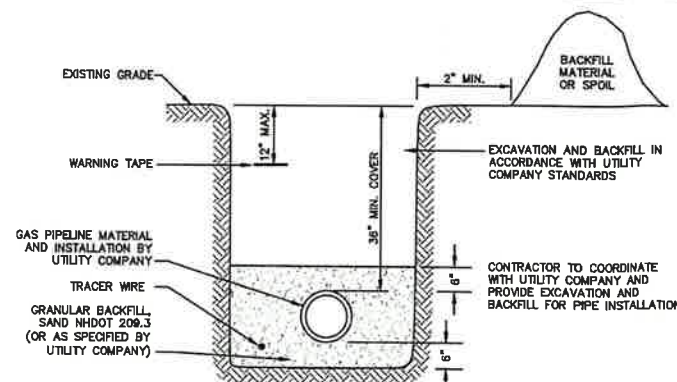
NOT TO SCALE



- NOTES:**
1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.
  2. ALL SECTIONS SHALL BE DESIGNED FOR H2O LOADING.
  3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
  4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H2O LOADING.
  5. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
  6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
  7. ALL CATCH BASIN FRAMES AND GRATES SHALL BE NHDOT CATCH BASIN TYPE ALTERNATE 1 OR NEEDNAH R-3570 OR APPROVED EQUAL (24"x24" TYPICAL).
  8. STANDARD CATCH BASIN FRAME AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM, BUT NO MORE THAN 12"), OR PRECAST CONCRETE "DONUTS".
  9. ALL CATCH BASINS ARE TO BE FITTED WITH GREASE HOODS.

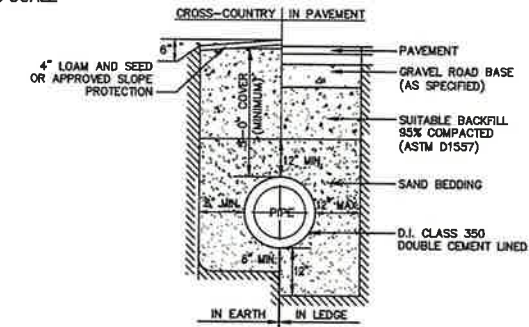
### CATCH BASIN WITH GREASE HOOD

NOT TO SCALE



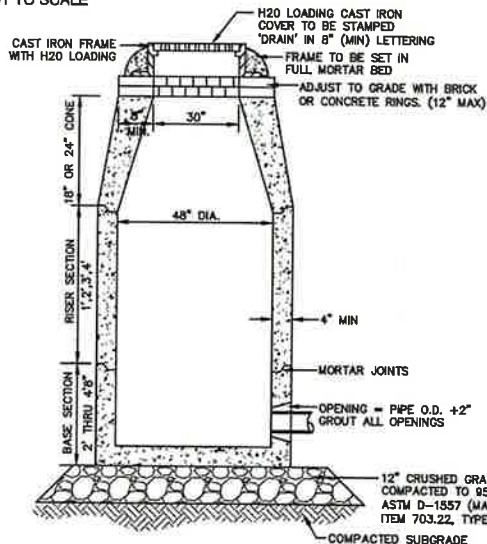
### GAS TRENCH

NOT TO SCALE



### WATER SYSTEM TRENCH

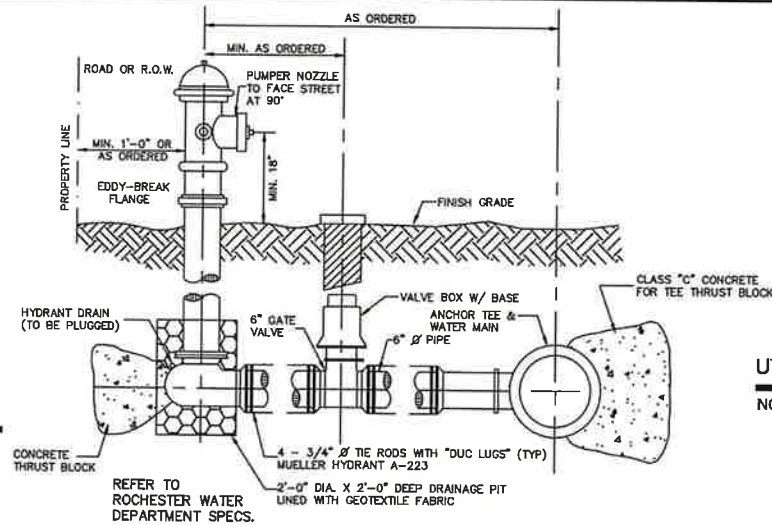
NOT TO SCALE



- NOTES:**
1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.
  2. ALL SECTIONS SHALL BE DESIGNED FOR H2O LOADING.
  3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
  4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H2O LOADING.
  5. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
  6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
  7. ALL DRAIN MANHOLE FRAMES AND GRATES SHALL BE NEEDNAH R-1798 OR APPROVED EQUAL (30" DIA. TYPICAL).
  8. STANDARD FRAME(S) AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM, BUT NO MORE THAN 12"), OR PRECAST CONCRETE "DONUTS".

### DRAIN MANHOLE (4' DIAM.)

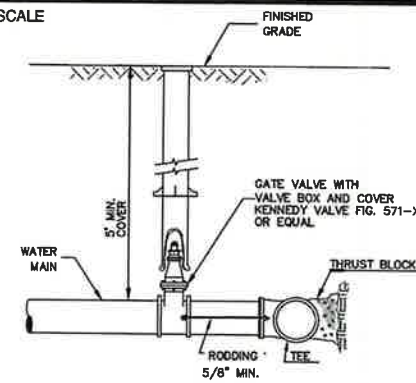
NOT TO SCALE



- NOTES:**
1. HYDRANTS SHALL BE KENNEDY KB1-D.
  2. HYDRANT BREAK AWAY FLANGE SHALL BE A MAXIMUM OF 6-INCHES ABOVE GRADE AND MINIMUM 2-INCHES ABOVE GRADE.
  3. ALL PIPE FITTINGS TO BE D.I. PRESSURE CLASS 350, THICKNESS CLASS 52.
  4. HYDRANT TO BE PAINTED RED WITH WHITE "REFLECTOR" PAINT ON BONNET.
  5. MECHANICAL JOINTS SHALL HAVE MEGALUG RETAINING GLANDS AS MADE BY EBBA OR APPROVED EQUAL.
  6. STEAMER NOZZLE TO BE "STORCH" TYPE.
  7. NATIONAL STANDARD THREAD.

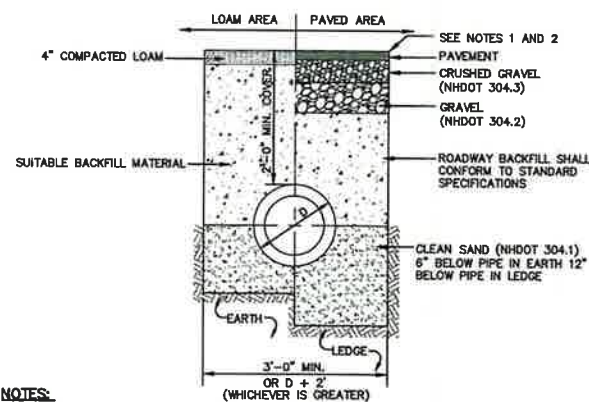
### HYDRANT INSTALLATION

NOT TO SCALE



### BURIED GATE VALVE DETAIL

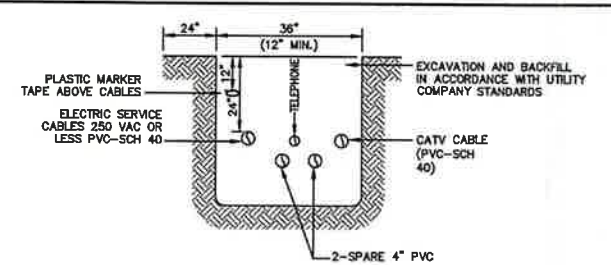
NOT TO SCALE



- NOTES:**
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
  2. NEW ROADWAY CONSTRUCTION SHALL CONFORM WITH PROJECT AND CITY SPECIFICATIONS.
  3. ALL MATERIALS ARE TO BE COMPACTED TO 95% OF ASTM D-1557.

### DRAINAGE TRENCH

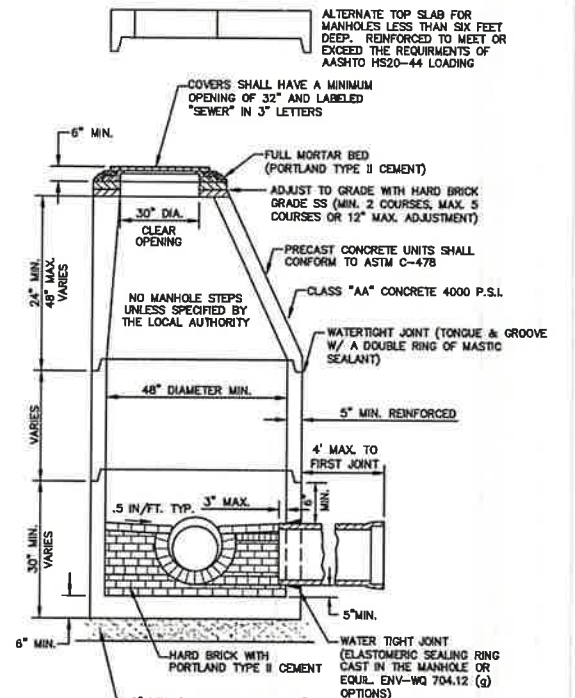
NOT TO SCALE



NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

### UTILITY TRENCH

NOT TO SCALE



- NOTES:**
1. PER NHDES ENV-WQ 704.13(C), MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:
    - a. MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION
    - b. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE PER TABLE 704-4:
      - (1) 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR
      - (2) 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PART HYDRATED LIME;
    - c. CEMENT SHALL BE TYPE II PORTLAND CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS MANUFACTURED
    - d. HYDRATED LIME SHALL BE TYPE S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRATED LIME WAS PROCESSED
    - e. SAND SHALL CONSIST OF INERT NATURAL SAND THAT IS CERTIFIED BY ITS SUPPLIER AS CONFORMING TO THE ASTM C33 STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY STANDARD SPECIFICATIONS FOR CONCRETE, FINE AGGREGATES
    - f. CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS AAA CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AVAILABLE AT: [HTTP://WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/SPECIFICATIONS/INDEX.HTM](http://www.nh.gov/dot/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/SPECIFICATIONS/INDEX.HTM)
  2. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL IN ACCORDANCE WITH ENV-WQ 704.12 (K).
  3. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ENV-WQ 704.17 (c) THROUGH (e).
  4. SEWER MANHOLE COVERS SHALL CONFORM TO ASTM A48/48M WITH A CASTING EQUAL TO CLASS 30 IN ACCORDANCE WITH ENV-WQ 704.13 (a) (b).
  5. ALL PRECAST SECTIONS SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING COATING IN ACCORDANCE WITH ENV-WQ 704.12 (J).
  6. ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDUBLY MARKED ON THE INSIDE WALL PER ENV-WQ 704.12(I).
  7. BRICK MASONRY SHALL CONFORM TO ASTM C32 (ENV-WQ 704.12(a)(9))

### SEWER MANHOLE

NOT TO SCALE

Design: JAC	Draft: LAZ	Date: 04/29/21
Checked: JAC	Scale: AS NOTED	Project No.: 21090
Drawing Name: 21090-PLAN.dwg		
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12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

Designed and Produced in NH

**J/B Jones & Beach Engineers, Inc.**

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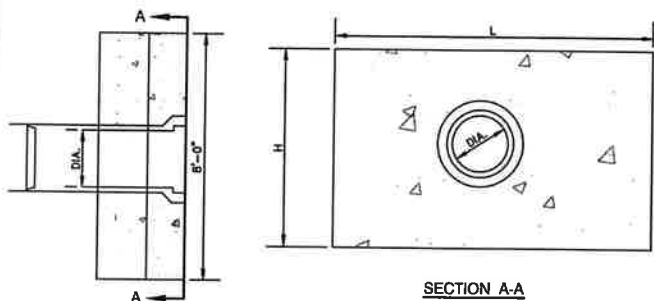
Plan Name:	DETAIL SHEET
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.

**D2**

SHEET 42 OF 48  
JBE PROJECT NO. 21090



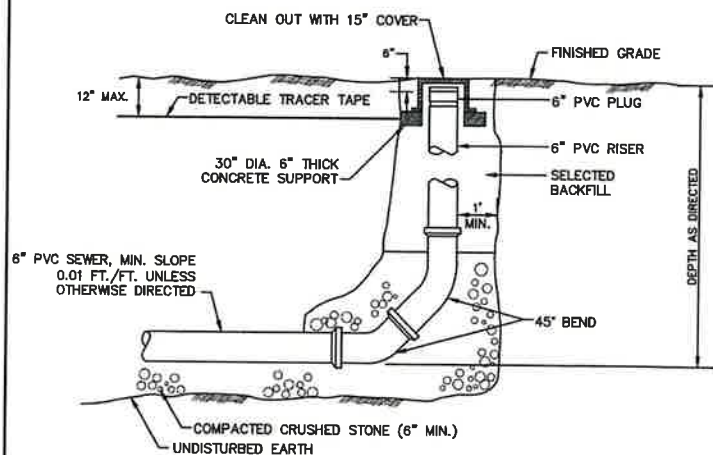


DIA	HEADWALL LENGTH	HEADWALL HEIGHT	FILL HEIGHT	PIPE COVER	HEADWALL BOTTOM WIDTH
D	L	H	FH	h	W
12"	4'-2"	3'-9"	1'-8"	1'-3"	1'-11"
15"	5'-11"	4'-2"	1'-8"	1'-5"	2'-0"
18"	6'-11"	4'-8"	1'-8"	1'-5"	2'-1"
24"	8'-10"	4'-11"	1'-8"	1'-5"	2'-3"

- NOTES:**
- ALL DIMENSIONS GIVEN IN FEET & INCHES.
  - PROVIDE SELL END AT INLET HEADWALL, AND SPIGOT END AT OUTLET END HEADWALL.
  - CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS. CEMENT TO BE TYPE III PER ASTM C-150. REINFORCING TO MEET OR EXCEED ASTM A-615 GRADE 60 DEFORMED BARS.
  - 1" THREADED INSERTS PROVIDED FOR FINAL ATTACHMENT IN FIELD BY OTHERS.

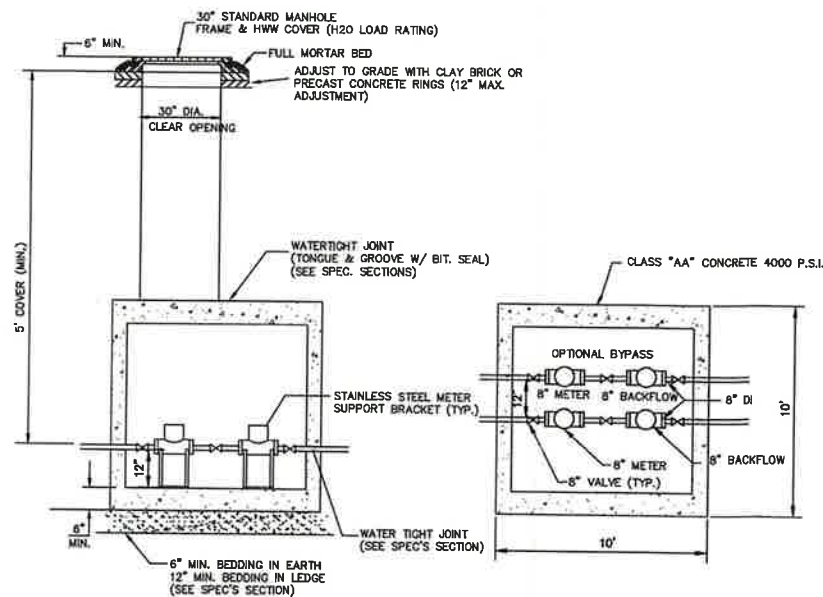
#### PRECAST CONCRETE HEADWALL

NOT TO SCALE



#### SEWER CLEAN OUT

NOT TO SCALE



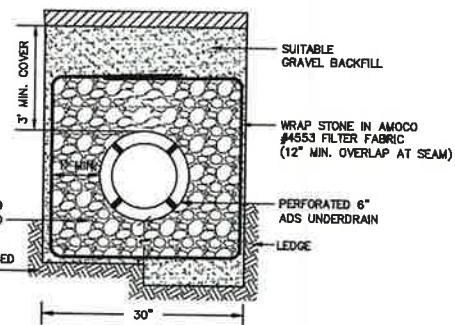
#### ELEVATION

#### PLAN VIEW

- NOTES:**
- METER TO BE SENSUS OMNI C2 OF APPROPRIATE SIZE.
  - BACKFLOW TO BE TESTABLE DOUBLE CHECK VALVE ASSEMBLY WITH CENTER-SHAFT OR TOP HINGE CHECKS (WILKINS 350AST OR EQUAL) OF APPROPRIATE SIZE, IF APPLICATION IS DESIGNATED LOW HAZARD.
  - OPTIONAL BYPASS MAY BE SIZED FOR DOMESTIC SERVICE ONLY.
  - VAULT TO HAVE ADEQUATE ANTI-BOUANCY FEATURES.
  - VAULT COVERS TO BE STAMPED WITH "WATER" AND MATCH EXISTING CITY OF ROCHESTER INFRASTRUCTURE STANDARDS.
  - ISOLATION VALVES REQUIRED AROUND EQUIPMENT FOR MAINTENANCE, TESTING AND SERVICE.
  - IF APPLICATION IS DESIGNATED HIGH HAZARD, THE ASSEMBLY MUST USE RPZ BACKFLOW DEVICES AND BE LOCATED IN AN ABOVE GRADE, HEATED AND INSULATED ENCLOSURE TO ALLOW FOR DRAINING.
  - VAULT AND ACCESS HATCHES SHALL BE SIZED TO ALLOW ENTRY FOR INSPECTION, TESTING AND COMPLETE REPLACEMENT OF DEVICES.
  - IF OPTIONAL BYPASS LINE IS INSTALLED, WHEN MAIN FEED IS TAKEN OFFLINE AND BYPASS ENGAGED, OWNER SHALL CALL 330-7129 TO COORDINATE LOW FLOW CONDITION WITH ROCHESTER FIRE DEPARTMENT AND ROCHESTER PUBLIC WORKS DEPARTMENT.

#### WATER METER PIT ROCHESTER

NOT TO SCALE

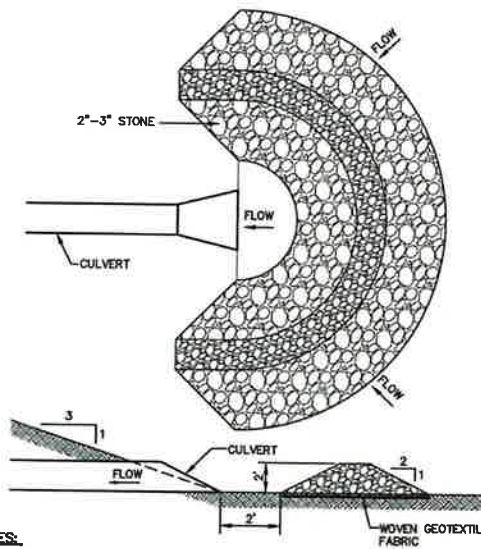


#### NOTES:

- PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
- NEW ROADWAY CONSTRUCTION SHALL CONFORM TO PROJECT AND CITY SPECIFICATIONS.
- SLOPE UNDERDRAIN PIPE TO DAYLIGHT.

#### ROADWAY UNDERDRAIN TRENCH

NOT TO SCALE

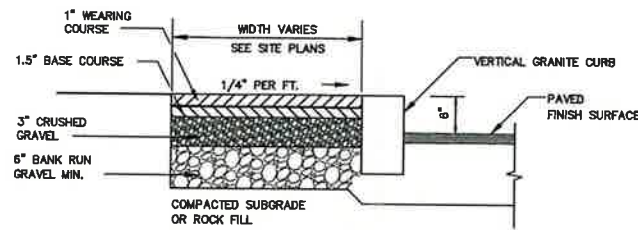


#### NOTES:

- TEMPORARY CULVERT INLET PROTECTION CHECK DAMS SHALL BE CONSTRUCTED OF 2-3" STONE OVER WOVEN GEOTEXTILE FABRIC.
- INLET PROTECTION MEASURES SHALL BE INSTALLED AT THE OPENINGS OF ALL EXISTING AND PROPOSED CULVERTS LOCATED BELOW (DOWNSTREAM) FROM AND WITHIN 100' OF THE PROJECT SITE.
- SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURE WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE STRUCTURE.
- STRUCTURES SHALL BE REMOVED WHEN THE SITE IS STABILIZED WITH VEGETATION AND THE CHANNEL SHALL BE SMOOTHED AND REVEGETATED.

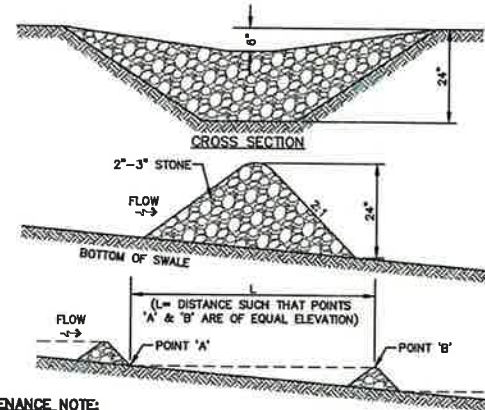
#### TEMPORARY CULVERT INLET PROTECTION CHECK DAM

NOT TO SCALE



#### BIT. SIDEWALK W/ VERTICAL GRANITE CURB

NOT TO SCALE

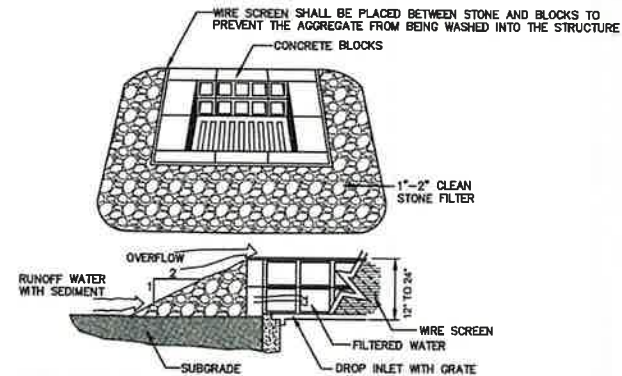


#### MAINTENANCE NOTE:

- STONE CHECK DAMS SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE. WHEN THE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

#### STONE CHECK DAM

NOT TO SCALE

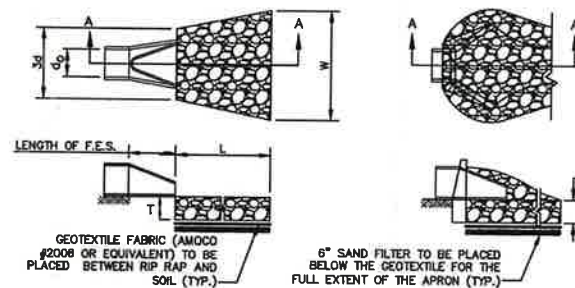


#### MAINTENANCE NOTE:

- ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINFALL AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED IN A SUITABLE UPLAND AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

#### TEMPORARY CATCH BASIN INLET PROTECTION (Block and Gravel Drop Inlet Sediment Filter)

NOT TO SCALE



#### SECTION A-A

PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

#### SECTION A-A

PIPE OUTLET TO WELL-DEFINED CHANNEL

TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES			
THICKNESS OF RIP RAP = 1.5 FEET			
d50 SIZE=	0.50 FEET	6 INCHES	
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES)		
	FROM	TO	
100%	9	12	
85%	8	11	
50%	6	9	
15%	2	3	

#### NOTES:

- THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
- THE RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
- GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE RIP RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
- OUTLETS TO A DEFINED CHANNEL SHALL HAVE 2:1 OR FLATTER SIDE SLOPES AND SHOULD BEGIN AT THE TOP OF THE CULVERT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE APRON.
- MAINTENANCE: THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIP RAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.

#### RIP RAP OUTLET PROTECTION APRON

NOT TO SCALE

Design: JAC	Draft: LAZ	Date: 04/29/21
Checked: JAC	Scale: AS NOTED	Project No.: 21090
Drawing Name: 21090-PLAN.dwg		

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12	10/13/22	REVISED PER TRG COMMENTS	LAZ
11	9/19/22	REVISED PER NHDES AOT COMMENTS	MJK
10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

Designed and Produced in NH

**J/B Jones & Beach Engineers, Inc.**

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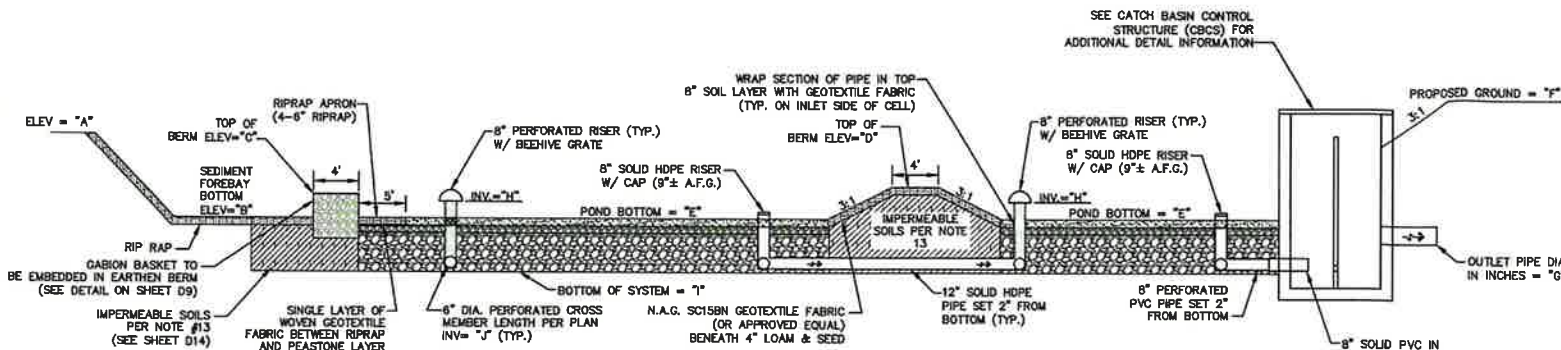
Plan Name:	DETAIL SHEET
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.

**D3**

SHEET 43 OF 48  
JBE PROJECT NO. 21090

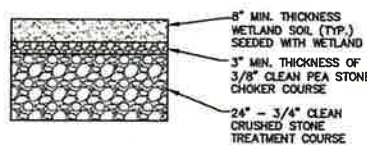




POND TABLE										
POND	ELEVATIONS/DIMENSIONS									
	A	B	C	D	E	F	G	H	I	J
POND 1	220.00	216.00	218.00	218.00	216.33	220.00	12"	216.89	213.41	213.58
POND 2	220.00	217.00	219.00	218.00	216.33	220.00	15"	216.88	213.42	213.58
POND 3	225.00	220.00	222.00	222.00	220.83	225.50	12"	221.42	217.92	218.08

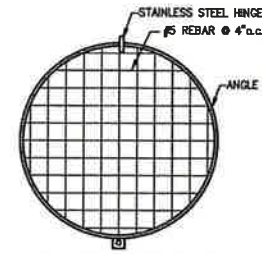
#### GRAVEL WETLAND SYSTEM SECTION

NOT TO SCALE



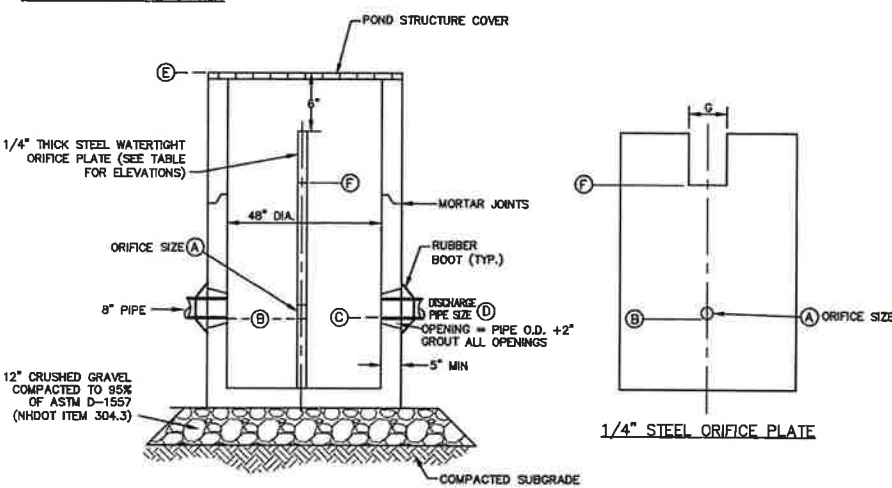
#### GRAVEL WETLAND POND BOTTOM CROSS SECTION (FIG-2)

NOT TO SCALE



#### POND STRUCTURE COVER

	A	B	C	D	E	F	G
POND 1	2.0"	216.00	216.00	12"	218.50	---	---
POND 2	2.5"	216.00	216.00	15"	219.00	217.88	36"
POND 3	3.0"	220.50	220.50	12"	223.50	---	---



#### CATCH BASIN CONTROL STRUCTURE (CBCS)

NOT TO SCALE

#### NATIVE MATERIALS AND LINER:

AT GRAVEL WETLAND #3, A LOW HYDRAULIC CONDUCTIVITY NATIVE SOIL IS NOT PRESENT BELOW THE GRAVEL LAYER, THEREFORE A LOW PERMEABILITY LINER OR SOIL SHALL BE USED TO: MINIMIZE INFILTRATION, PRESERVE HORIZONTAL FLOW IN THE GRAVEL, AND MAINTAIN THE WETLAND PLANTS. TEST PITS HAVE CONFIRMED THE NEED FOR A LINER, ACCEPTABLE OPTIONS INCLUDE: (A) 6 TO 12 INCHES (15 - 30 CM) OF CLAY SOIL (MINIMUM 15% PASSING THE #200 SIEVE AND A MINIMUM PERMEABILITY OF  $1 \times 10^{-6}$  CM/SEC), (B) A 30 ML HDPE LINER, (C) BENTONITE, (D) USE OF CHEMICAL ADDITIVES (SEE NRCS AGRICULTURAL HANDBOOK NO. 386, DATED 1961, OR ENGINEERING FIELD MANUAL), OR (E) A DESIGN PREPARED BY A PROFESSIONAL ENGINEER. THE LINER SHALL BE KEPT INTO THE TOP OF THE BERM ON ALL SIDES TO CREATE A "BATH TUB".

#### GRAVEL WETLAND CONSTRUCTION NOTES

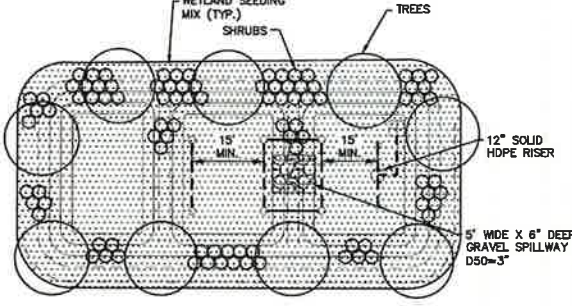
- THE CONTRACTOR WILL NOTIFY JONES AND BEACH ENGINEERS AFTER EACH OF THE GRAVEL WETLAND PONDS HAVE BEEN EXCAVATED TO THE BOTTOM OF THE SYSTEM FOR A MANDATORY INSPECTION PRIOR TO BUILDING BERMS, PLACING STONE OR INSTALLING PIPE SYSTEM.
- NO-GEOTEXTILE OR GEOTEXTILE LAYERS ARE USED WITHIN THIS SYSTEM, BUT MAY BE USED TO LINE WALLS.
- IF A NATIVE LOW HYDRAULIC CONDUCTIVITY SOIL IS NOT PRESENT BELOW THE DESIRED LOCATION OF THE SOW, A LOW PERMEABILITY LINER OR SOIL (HYDRAULIC CONDUCTIVITY LESS THAN  $0.03$  FT/DAY) BELOW THE GRAVEL LAYER SHOULD BE USED TO MINIMIZE INFILTRATION, PRESERVE HORIZONTAL FLOW IN THE GRAVEL, AND MAINTAIN THE WETLAND PLANTS (FIGURE 2).
- 8 IN. MINIMUM THICKNESS OF A WETLAND SOIL AS THE TOP LAYER. (SEE DESCRIPTION IN SURFACE INFILTRATION RATES SECTION FOR DETAILS (FIGURE 2)). THIS LAYER IS LEVELED (CONSTRUCTED WITH A SURFACE SLOPE OF ZERO).
- 3 IN. MINIMUM THICKNESS OF AN INTERMEDIATE LAYER OF A GRADED AGGREGATE FILTER IS NEEDED TO PREVENT THE WETLAND SOIL FROM MOVING DOWN INTO THE GRAVEL SUB-LAYER. MATERIAL COMPATIBILITY BETWEEN LAYERS NEEDS TO BE EVALUATED.
- 24 IN. (0.6 M) MINIMUM THICKNESS OF 3/4" CRUSHED-STONE SUB-LAYER. THIS IS THE ACTIVE ZONE WHERE TREATMENT OCCURS (FIGURE 2).
- THE PRIMARY OUTLET INVERT SHALL BE LOCATED 4" BELOW THE ELEVATION OF THE WETLAND SURFACE TO CONTROL GROUNDWATER ELEVATION. CARE SHOULD BE TAKEN TO NOT DESIGN A SLOPE THAT WOULD DRAIN THE WETLAND. THE PRIMARY OUTLET LOCATION MUST BE OPEN OR VENTED. IN CONTRAST TO FIGURE 1, THE PRIMARY OUTLET CAN BE A SIMPLE PIPE.
- AN OPTIONAL HIGH CAPACITY OUTLET AT EQUAL ELEVATION OR LOWER TO THE PRIMARY OUTLET MAY BE INSTALLED FOR MAINTENANCE. THIS OUTLET WOULD NEED TO BE PLUGGED DURING REGULAR OPERATION. THIS OPTIONAL OUTLET ALLOWS FOR FLUSHING OF THE TREATMENT CELLS AT HIGHER FLOW RATES. IF IT IS LOCATED LOWER, IT CAN BE USED TO DRAIN THE SYSTEM FOR MAINTENANCE OR REPAIRS.
- THE PRIMARY OUTLET STRUCTURE AND ITS HYDRAULIC RATING CURVE ARE BASED ON A CALCULATED RELEASE RATE BY ORIFICE CONTROL TO DRAIN THE WQV IN 24-48 HRS.
- THE MINIMUM SPACING BETWEEN THE SUBSURFACE PERFORATED DISTRIBUTION LINE AND THE SUBSURFACE PERFORATED COLLECTION DRAIN (SEE FIGURE 1) AT EITHER END OF THE GRAVEL IN EACH TREATMENT CELL IS 15 FT. THERE SHOULD BE A MINIMUM HORIZONTAL TRAVEL DISTANCE OF 15 FT WITHIN THE GRAVEL LAYER IN EACH CELL.
- VERTICAL PERFORATED OR SLOTTED RISER PIPES DELIVER WATER FROM THE SURFACE DOWN TO THE SUBSURFACE, PERFORATED OR SLOTTED DISTRIBUTION LINES. THESE RISERS SHALL HAVE A MAXIMUM SPACING OF 15 FEET (FIGURE 1). OVERSIZING OF THE PERFORATED OR SLOTTED VERTICAL RISERS IS USEFUL TO ALLOW A MARGIN OF SAFETY AGAINST CLOGGING WITH A MINIMUM RECOMMENDED DIAMETER OF 12" FOR THE CENTRAL RISER AND 8" FOR END RISERS. THE VERTICAL RISERS SHALL NOT BE CAPPED, BUT RATHER COVERED WITH AN INLET GRATE TO ALLOW FOR AN OVERFLOW WHEN THE WATER LEVEL EXCEEDS THE WQV.
- VERTICAL CLEANOUTS CONNECTED TO THE DISTRIBUTION AND COLLECTION SUBDRAINS, AT EACH END, SHALL BE PERFORATED OR SLOTTED ONLY WITHIN THE GRAVEL LAYER, AND SOLID WITHIN THE WETLAND SOIL AND STORAGE AREA ABOVE. THIS IS IMPORTANT TO PREVENT SHORT-CIRCUITING AND SOIL PIPING.
- BERMS AND WEIRS SEPARATING THE FOREBAY AND TREATMENT CELLS SHOULD BE CONSTRUCTED WITH CLAY, OR NON-CONDUCTIVE SOILS, AND/OR A FINE GEOTEXTILE, OR SOME COMBINATION THEREOF, TO AVOID WATER SEEPAGE AND SOIL PIPING THROUGH THESE EARTHEN DIVIDERS.
- THE SYSTEM SHOULD BE PLANTED TO ACHIEVE A RIGOROUS ROOT MAT WITH GRASSES, FORBS, AND SHRUBS WITH OBLIGATE AND FACULTATIVE WETLAND SPECIES. IN NORTHERN CLIMATES REFER TO THE NH STORMWATER MANUAL OR APPROVED EQUIVALENT LOCAL GUIDANCE FOR DETAILS ON LOCAL WETLAND PLANTINGS.
- SIDE SLOPES, EROSION CONTROL, USE OF RIP RAP FOR STABILIZED REGIONS AT OUTLETS AND OTHER LOCATIONS OF CONCENTRATED FLOW, ETC.
- SEE LANDSCAPE PLAN FOR PLANTING DETAILS.
- GABION BASKET TO BE CONSTRUCTED OF 3mm GALVANIZED DOUBLE-TWIST WIRE MESH. MESH OPENING SHALL BE 100mm to 120mm. ROCK FILL TO BE 4"-D50 ROUNDED STONE. LARGER STONES TO BE PLACED TO THE OUTSIDE OF GABION BASKET WITH SMALLER STONE IN INTERIOR.

#### INSPECTION AND MAINTENANCE (GRAVEL WETLAND)

- THE CONTRACTOR WILL NOTIFY JONES AND BEACH ENGINEERS AFTER EACH OF THE GRAVEL WETLAND PONDS HAVE BEEN EXCAVATED TO THE BOTTOM OF THE SYSTEM FOR A MANDATORY INSPECTION PRIOR TO BUILDING BERMS, PLACING STONE OR INSTALLING PIPE SYSTEM.
- 1ST YEAR POST-CONSTRUCTION: INSPECTION FREQUENCY SHOULD BE AFTER EVERY MAJOR STORM IN THE FIRST YEAR FOLLOWING CONSTRUCTION.
  - INSPECT TO BE CERTAIN SYSTEM DRAINS WITHIN 24-72 HRS (WITHIN THE DESIGN PERIOD, BUT ALSO NOT SO QUICKLY AS TO MINIMIZE STORMWATER TREATMENT).
  - WATERING PLANTS AS NECESSARY DURING THE FIRST GROWING SEASON
  - RE-VEGETATING POORLY ESTABLISHED AREAS AS NECESSARY
  - TREATING DISTURBED VEGETATION AS NECESSARY
  - QUARTERLY INSPECTION OF SOIL AND REPAIRING ERODED AREAS, ESPECIALLY ON SLOPES
  - CHECKING INLETS, OUTLETS, AND OVERFLOW SPILLWAY FOR BLOCKAGE, STRUCTURAL INTEGRITY, AND EVIDENCE OF EROSION.
- POST-CONSTRUCTION: INSPECTION FREQUENCY SHOULD BE AT LEAST EVERY 6 MONTHS THEREAFTER, AS PER USEPA GOOD HOUSE-KEEPING REQUIREMENTS. INSPECTION FREQUENCY CAN BE REDUCED TO ANNUAL FOLLOWING 2 YEARS OF MONITORING THAT INDICATES THE RATE OF SEDIMENT ACCUMULATION IS LESS THAN THE CLEANING CRITERIA LISTED BELOW. INSPECTIONS SHOULD FOCUS ON:
  - CHECKING THE FILTER SURFACE FOR DENSE, COMPLETE, ROOT MAT ESTABLISHMENT ACROSS THE WETLAND SURFACE. THOROUGH REVEGETATION WITH GRASSES, FORBS, AND SHRUBS IS NECESSARY. UNLIKE BIOTENTION, WHERE MULCH IS COMMONLY USED, COMPLETE SURFACE COVERAGE WITH VEGETATION IS NEEDED.
  - CHECKING THE GRAVEL WETLAND SURFACE FOR STANDING WATER OR OTHER EVIDENCE OF RISER CLOGGING, SUCH AS DISCOLORED OR ACCUMULATED SEDIMENTS.
  - CHECKING THE SEDIMENTATION CHAMBER OR FOREBAY FOR SEDIMENT ACCUMULATION, TRASH, AND DEBRIS.
  - INSPECT TO BE CERTAIN THE SEDIMENTATION FOREBAY DRAINS WITHIN 24 TO 72 HRS.
  - CHECKING INLETS, OUTLETS, AND OVERFLOW SPILLWAY FOR BLOCKAGE, STRUCTURAL INTEGRITY, AND EVIDENCE OF EROSION.
  - REMOVAL OF DECAYING VEGETATION, LITTER, AND DEBRIS.
  - MOW GRASS AREAS PERIODICALLY SO THAT GRASS DOES NOT EXCEED 4" IN HEIGHT.
- CLEANING CRITERIA FOR ALL SEDIMENTATION FOREBAYS: SEDIMENT SHOULD BE REMOVED FROM THE SEDIMENTATION CHAMBER (FOREBAY) WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN 12 INCHES (30 CM) OR 10 PERCENT OF THE PRETREATMENT VOLUME. THE SEDIMENTATION FOREBAY SHOULD BE CLEANED OF VEGETATION IF PERSISTENT STANDING WATER AND WETLAND VEGETATION BECOMES DOMINANT. THE CLEANING INTERVAL IS ONCE EVERY YEAR. A DRY SEDIMENTATION FOREBAY IS THE OPTIMAL CONDITION WHILE IN PRACTICE THIS CONDITION IS RARELY ACHIEVED. THE SEDIMENTATION CHAMBER, FOREBAY, AND TREATMENT CELL OUTLET DEVICES SHOULD BE CLEANED WHEN DRAWDOWN TIMES EXCEED 60 TO 72 HOURS. MATERIALS CAN BE REMOVED WITH HEAVY CONSTRUCTION EQUIPMENT; HOWEVER THIS EQUIPMENT SHOULD NOT TRACK ON THE WETLAND SURFACE. REVEGETATION OF DISTURBED AREAS AS NECESSARY. REMOVED SEDIMENTS SHOULD BE DEWATERED (IF NECESSARY) AND DISPOSED OF IN AN ACCEPTABLE MANNER.
- CLEANING CRITERIA FOR GRAVEL WETLAND TREATMENT CELLS: SEDIMENT SHOULD BE REMOVED FROM THE GRAVEL WETLAND SURFACE WHEN IT ACCUMULATES TO A DEPTH OF SEVERAL INCHES (>10 CM) ACROSS THE WETLAND SURFACE. MATERIALS SHOULD BE REMOVED WITH RAKES RATHER THAN HEAVY CONSTRUCTION EQUIPMENT TO AVOID COMPACTION OF THE GRAVEL WETLAND SURFACE. HEAVY EQUIPMENT COULD BE USED IF THE SYSTEM IS DESIGNED WITH DIMENSIONS THAT ALLOW EQUIPMENT TO BE LOCATED OUTSIDE THE GRAVEL WETLAND, WHILE A BACKHOE SHOVEL REACHES INSIDE THE GRAVEL WETLAND TO REMOVE SEDIMENT. REMOVED SEDIMENTS SHOULD BE DEWATERED (IF NECESSARY) AND DISPOSED OF IN AN ACCEPTABLE MANNER.
- DRAINING AND FLUSHING GRAVEL WETLAND TREATMENT CELLS: FOR MAINTENANCE IT MAY BE NECESSARY TO DRAIN OR FLUSH THE TREATMENT CELLS. THE OPTIONAL DRAINS WILL PERMIT SIMPLER MAINTENANCE OF THE SYSTEM IF NEEDED. THE DRAINS NEED TO BE CLOSED DURING STANDARD OPERATION. FLUSHING OF THE RISERS AND HORIZONTAL SUBDRAINS IS MOST EFFECTIVE WITH THE ENTIRE SYSTEM DRAINED. FLUSHED WATER AND SEDIMENT SHOULD BE COLLECTED AND PROPERLY DISPOSED.

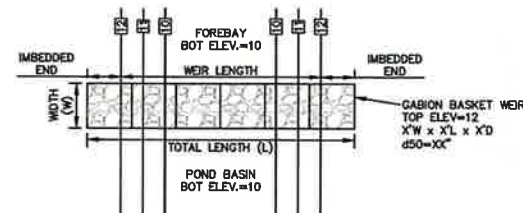
TREES:	ACER RUBRUM	RED MAPLE
AR	FRAXINUS PENNSYLVANICA	GREEN ASH
DECIDUOUS SHRUBS:		
VD	VIBURNUM DENTATUM	ARROWWOOD
AI	ALNUS INCANA	SPECKLED ALDER
CS	CORNUS STOLONIFERA	REDOSIER DOGWOOD
VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY
IV	LILLEX VERTICILLATA	WINTERBERRY

WETLAND SEED MIX:		
SC	SCIRPUS CYPERINUS	WOOL-GRASS
SA	SCIRPUS ATROVIRENS	GREEN BULRUSH
JE	JUNCUS EFFUSUS	SOFT RUSH
CA	CAREX LUPULINA	HOP SEDGE
CC	CAREX CRINITA	FRINGED SEDGE

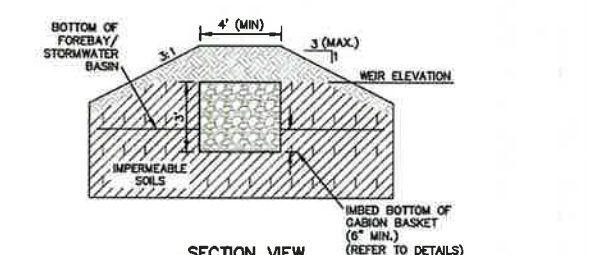


#### GRAVEL WETLAND PLANTING SCHEDULE (FIG-1)

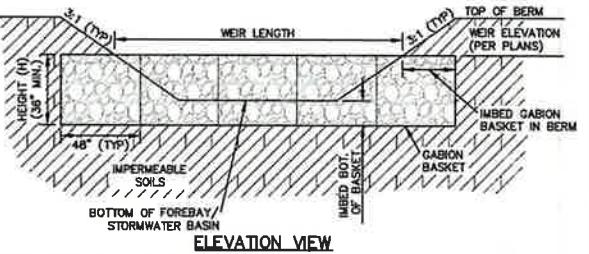
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#### PLAN VIEW w/ EXAMPLE



#### SECTION VIEW



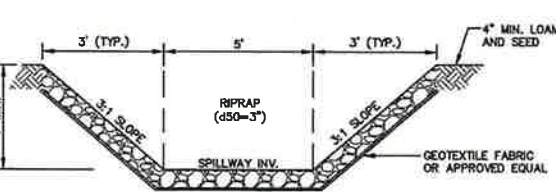
#### ELEVATION VIEW

#### GABION BASKET WEIR

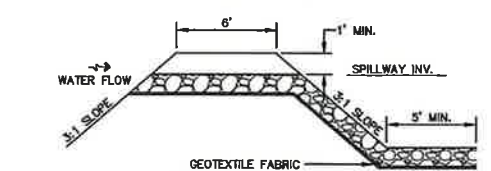
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#### RIPRAP EMERGENCY SPILLWAY

NOT TO SCALE



#### EMERGENCY SPILLWAY SECTION



#### EMERGENCY SPILLWAY PROFILE

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10	9/8/22	REVISED PER CITY & NHDES AOT COMMENTS	LAZ
9	8/29/22	REVISED PER NHDES AOT COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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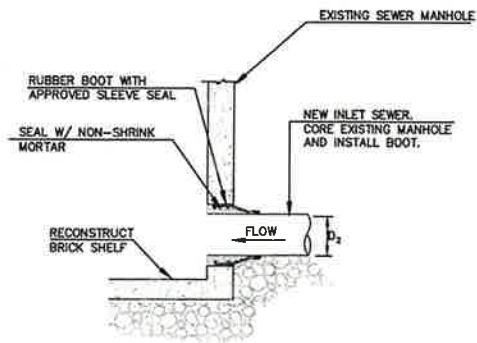
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Plan Name:	DETAIL SHEET
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

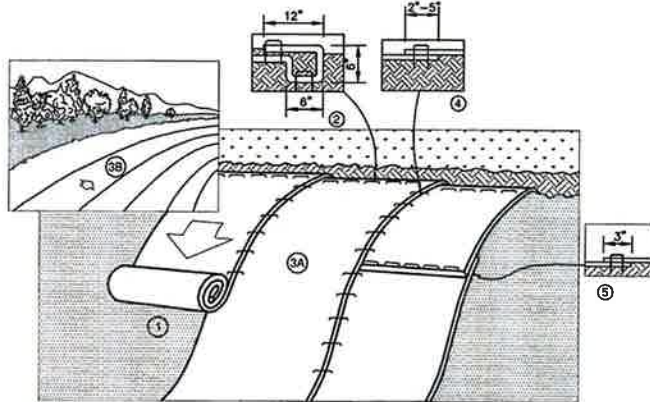
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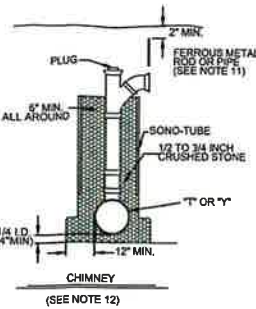
SEWER CONNECTION TO EXISTING STRUCTURE

NOT TO SCALE



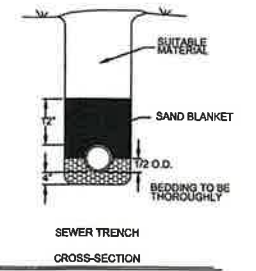
HOUSE SEWER SERVICE

NOT TO SCALE



CHIMNEY

(SEE NOTE 12)



SEWER TRENCH

CROSS-SECTION

COMPACTED (SEE NOTE 10)

NOTES:

1. MINIMUM SIZE PIPE FOR HOUSE SERVICE SHALL BE 6 INCHES.

2. PIPE AND JOINT MATERIALS:

A. VITRIFIED CLAY PIPE:

1. PIPE AND FITTINGS SHALL BE EXTRA STRENGTH CLAY PIPE CONFORMING TO THE REQUIREMENTS OF ASTM C-700.  
2. JOINTS SHALL BE MADE WITH OIL RESISTANT GASKETS IN ACCORDANCE WITH ASTM C-425 TYPE II MANUFACTURERS INSTRUCTIONS FOR INSTALLATION SHALL BE FOLLOWED.

B. UP.V.C. (POLY VINYL CHLORIDE) PIPE:

1. PIPE AND FITTINGS SHALL CONFORM TO THE MOST RECENT REQUIREMENTS OF ASTM SPECIFICATIONS FOR TYPE PSM POLY VINYL CHLORIDE (P.V.C.) SEWER PIPE AND FITTINGS, DESIGNATION D-3034 AND ASTM SPECIFICATIONS FOR SEWER PIPE, JOINTS USING ELASTOMERIC SEALS, DESIGNATION D-3212.  
2. JOINTS SHALL BE OF THE ELASTOMERIC GASKET TYPE. SOLVENT CEMENT JOINTS SHALL NOT BE ALLOWED.

C. CAST IRON PIPE FITTINGS AND JOINTS

1. CAST IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE: A21.1 THICKNESS DESIGN OF CAST IRON PIPE A21.4 CEMENT MORTAR LINING FOR CAST IRON PIPE AND FITTINGS A21.8 CAST IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS FOR WATER OR OTHER LIQUIDS. A21.8 CAST IRON PIPE CENTRIFUGALLY CAST IN SAND LINED MOLDS FOR WATER OR OTHER LIQUIDS. A21.10 CAST IRON FITTINGS, 2 INCHES THROUGH 48 INCHES FOR WATER AND OTHER LIQUIDS.  
2. JOINTS SHALL BE OF THE MECHANICAL OR PUSH ON TYPE JOINTS AND GASKETS SHALL CONFORM TO: A21.11 RUBBER GASKET JOINTS FOR CAST IRON PRESSURE PIPE AND FITTINGS.

D. DUCTILE IRON PIPE, FITTINGS AND JOINTS

1. DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE: A21.50 THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A536 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 AS SPECIFIED IN C2 ABOVE, CAST IRON PIPE JOINTS.

3. DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.

4. 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.

5. U "T" AND "Y" WHERE A "T" OR "Y" IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE IN THE SEWER, FOLLOWING 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 15" DIAMETER.

6. PIPE INSTALLATION. U THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED 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 AND THOROUGHLY 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. GRADE OF NOT LESS THAN 1/8 INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEWATER THE TRENCH.

7. TESTING: THE COMPLETED HOUSE SEWER SHALL BE SUBJECTED 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 5 FEET ABOVE THE LEVEL OF THE PLUG.

B. THE PIPE SHALL BE LEFT EXPOSED AND LIBERALLY HOSED WITH WATER TO IMULATE, 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. \* DOES NOT APPLY TO INSTALLATIONS WHERE "TS" AND "YS" ARE USED

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 RELAID SO AS TO ASSURE WATER TIGHTNESS.

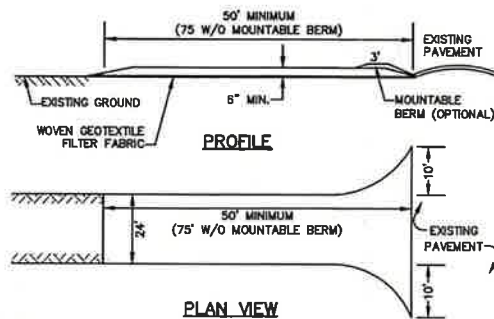
8. ILLEGAL CONNECTION: NOTHING BUT SANITARY WASTE FLOW FROM THE HOUSE TOILETS, SINKS, LAUNDRY, ETC. SHALL BE PERMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS OR ANY OTHER SIMILAR CONNECTION CARRYING RAIN WATER, DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED.

9. HOUSE WATER SERVICE SHOULD NOT BE LAID IN THE SAME TRENCH AS THE SEWER SERVICE, BUT WHEN NECESSARY, SHALL BE PLACED ABOVE AND TO ONE SIDE OF THE HOUSE SEWER AS SHOWN.

10. 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 (1/2 TO 3/4 INCH) SHALL BE USED.

11. LOCATION: THE LOCATION OF THE "T" OR "Y" SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE "T" OR "Y", AS DESCRIBED IN THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A TIP NEEDLE OR PIPE FINDER.

12. CHIMNEYS: IF VERTICAL DROP INTO THE SEWER IS GREATER THAN 4 FEET, A CHIMNEY SHALL BE CONSTRUCTED FOR THE HOUSE CONNECTION.

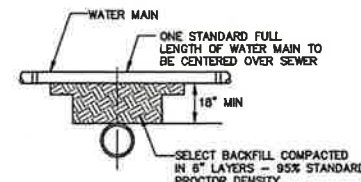


NOTES:

1. STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.  
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, 75' WITHOUT A MOUNTABLE BERM, AND EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.  
3. THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 8 INCHES.  
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS, OR 10 FEET, WHICHEVER IS GREATER.  
5. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER FABRIC IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT.  
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A STONE BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.  
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



SEPARATION NOTES:

1. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.  
2. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN PIPES. SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 8 FEET HORIZONTALLY FROM THE WATER MAIN.

TYPICAL WATER / SEWER SEPARATION

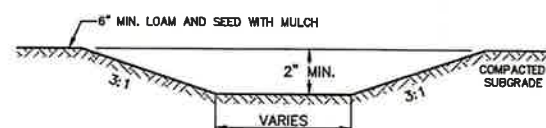
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**NORTH AMERICAN GREEN**  
14649 HIGHWAY 41 NORTH  
EVANSVILLE, INDIANA 47725  
1-800-772-2040

EROSION CONTROL BLANKET SLOPE INSTALLATION

NORTH AMERICAN GREEN (800) 772-2040

NOT TO SCALE



NOTE:

1. STABILIZED PRIOR TO DIRECTING RUN OFF TO SWALE  
2. CONSTRUCT SWALE AT 0.005 FT/FT SLOPE (MIN.)

VEGETATED SWALE

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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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Plan Name:	DETAIL SHEET
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.	D5
SHEET 45 OF 48	JBE PROJECT NO. 21090



## BLASTING SPECIFICATIONS

A. **BEST MANAGEMENT PRACTICES FOR BLASTING.** ALL ACTIVITIES RELATED TO BLASTING SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT CONTAMINATION OF GROUNDWATER INCLUDING PREPARING, REVIEWING AND FOLLOWING AN APPROVED BLASTING PLAN; PROPER DRILLING, EXPLOSIVE HANDLING AND LOADING PROCEDURES; OBSERVING THE ENTIRE BLASTING PROCEDURE; EVALUATING BLASTING PERFORMANCE; AND HANDLING AND STORAGE OF BLASTED ROCK.

- (1) **LOADING PRACTICES.** THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
- (a) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
  - (b) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
  - (c) SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.
  - (d) LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
  - (e) LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
  - (f) EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.

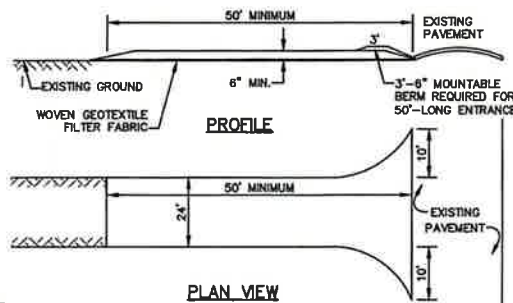
- (2) **EXPLOSIVE SELECTION.** THE FOLLOWING BMPs SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
- (a) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION.
  - (b) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER.

- (3) **PREVENTION OF MISFIREs.** APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIREs.

- (4) **MUCK PILE MANAGEMENT.** MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
- (a) REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
  - (b) MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.

- (5) **SPILL PREVENTION MEASURES AND SPILL MITIGATION.** SPILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:

- a. THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
  - 1. STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE.
  - 2. SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY.
  - 3. LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY.
  - 4. INSPECT STORAGE AREAS WEEKLY.
  - 5. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS.
  - 6. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS.
  - 7. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
- b. THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
  - 1. EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED.
  - 2. PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS.
  - 3. HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS.
  - 4. USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES.
  - 5. PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
- c. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
- d. FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF NHDES [NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WD-068-22-6: "BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT" OR ITS SUCCESSOR DOCUMENT.]



### PLAN VIEW

### NOTES:

1. STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 8 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS, OR 10 FEET, WHICHEVER IS GREATER.
5. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER FABRIC IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A STONE BERM WITH 2:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN UP OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

## STABILIZED CONSTRUCTION ENTRANCE

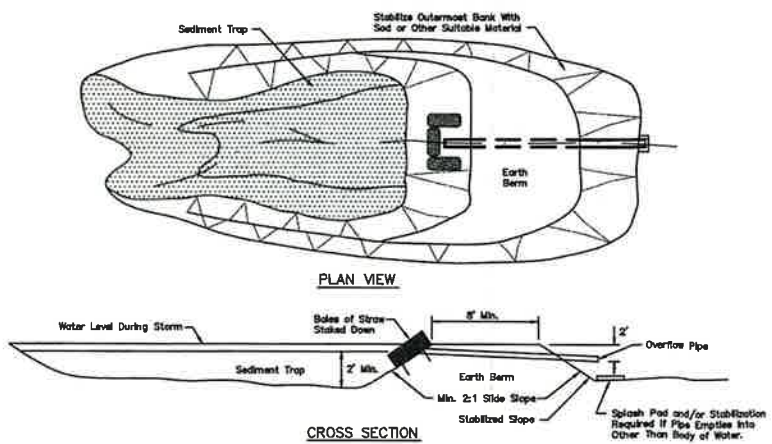
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## TEMPORARY EROSION CONTROL NOTES

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. AT NO TIME SHALL AN AREA IN EXCESS OF 5 ACRES BE EXPOSED AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
3. ALL DISTURBED AREAS (INCLUDING POUD AREAS BELOW THE PROPOSED WATERLINE) SHALL BE RETURNED TO PROPOSED GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOADED WITH A MINIMUM OF 6" OF SCREENED ORGANIC LOAM AND SEEDED WITH SEED MIXTURE 'C' AT A RATE NOT LESS THAN 1.10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
4. SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5" OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
6. AREAS MUST BE SEEDD AND MULCHED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 3 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE INITIAL DISTURBANCE OF SOIL. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
7. IN AREAS WHERE FINAL GRADING HAS NOT OCCURRED, TEMPORARY STABILIZATION MEASURES SHOULD BE IN PLACE WITHIN 5 CALENDAR DAYS FOR EXPOSED SOIL AREAS THAT ARE WITHIN 100 FEET OF A SURFACE WATERBODY OR A WETLAND AND NO MORE THAN 14 CALENDAR DAYS FOR ALL OTHER AREAS. PERMANENT STABILIZATION SHOULD BE IN PLACE WITHIN 3 CALENDAR DAYS FOLLOWING COMPLETION OF FINAL GRADING OF EXPOSED SOIL AREAS.
8. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) 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 ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
9. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
10. AFTER OCTOBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
11. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
  - a. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
  - b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
  - c. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
  - d. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

12. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER SHALL BE SUBMITTED TO DES VIA EMAIL (SEE BELOW).
13. PRIOR TO CONSTRUCTION, A PHASING PLAN THAT DELINEATES EACH PHASE OF THE PROJECT SHALL BE SUBMITTED. ALL TEMPORARY SEDIMENT BASINS THAT WILL BE NEEDED FOR DEWATERING WORK AREAS SHALL BE LOCATED AND IDENTIFIED ON THIS PLAN.
14. IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE IN STRICT COMPLIANCE WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS IN ADDITION TO THOSE CALLED FOR IN THE SWPPP:

- a. A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE SITE SPECIFIC PERMIT ("PERMIT").
- b. DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY 1/4 INCH OR GREATER RAIN EVENT (I.E. 1/4 INCH OF PRECIPITATION OR MORE WITHIN A 24 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS EVENT.
- c. THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 485 A:17 AND ALL APPLICABLE DES PERMIT CONDITIONS.
- d. WITHIN 24 HOURS OF EACH INSPECTION, THE MONITOR SHALL SUBMIT A REPORT TO DES VIA EMAIL (RIDGELY MAUCK AT: RIDGELY.MAUCK@DES.NH.GOV).
- e. THE MONITOR SHALL MEET WITH DES TO DECIDE UPON A REPORT FORMAT. THE REPORT FORMAT SHALL BE REVIEWED AND APPROVED BY DES PRIOR TO THE START OF CONSTRUCTION.
- f. THE MONITOR SHALL INCLUDE PHOTOGRAPHS OF THE SITE THAT ARE REPRESENTATIVE OF THE PROJECT.



## TEMPORARY SEDIMENT BASIN

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## SEEDING SPECIFICATIONS

### 1. GRADING AND SHAPING

- A. SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED).
- B. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

### 2. SEEDING PREPARATION

- A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
- B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND FERTILIZER AND LIME MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

### 3. ESTABLISHING A STAND

- A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. TYPES AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
  - AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ.FT.
  - NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT.
  - PHOSPHATE(P2O5), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.
  - POTASH(K2O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10.)
- B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
- C. REFER TO THE 'SEEDING GUIDE' AND 'SEEDING RATES' TABLES ON THIS SHEET FOR APPROPRIATE SEED MIXTURES AND RATES OF SEEDING. ALL LEGUMES (CROWNFVETCH, BIRDSFOOT, TREFLOIL AND PLATANE) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT PRIOR TO THEIR INTRODUCTION TO THE SITE.
- D. WHEN SEEDD AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDD AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20th OR FROM AUGUST 10th TO SEPTEMBER 1st.

### 4. MULCH

- A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
- B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.

### 5. MAINTENANCE TO ESTABLISH A STAND

- A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
- B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED.
- C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	EXCELLENT	FAIR
	C	GOOD	GOOD	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, OOD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	GOOD	EXCELLENT	FAIR
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	E	FAIR	EXCELLENT	EXCELLENT	2/
	F	FAIR	EXCELLENT	EXCELLENT	2/
GRAVEL PIT, SEE NH-PW-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.					
1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE BELOW.					
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.					

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th, IF PERMANENT SEEDING NOT YET COMPLETE.

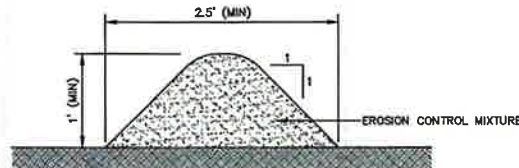
## SEEDING GUIDE

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft.
A. TALL FESCUE CREEPING RED FESCUE RED TOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
B. TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR FLAT PEA TOTAL	15 10 15 30 40 OR 55	0.35 0.25 0.35 0.75 0.95 OR 1.35
C. TALL FESCUE CREEPING RED FESCUE BIRDS FOOT TREFLOIL TOTAL	20 20 8 48	0.45 0.45 0.20 1.10
D. TALL FESCUE FLAT PEA TOTAL	20 30 50	0.45 0.75 1.20
E. CREEPING RED FESCUE 1/ KENTUCKY BLUEGRASS 1/ TOTAL	50 50 100	1.15 1.15 2.30
F. TALL FESCUE 1	150	3.80
1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.		

## SEEDING RATES

## CONSTRUCTION SEQUENCE

1. PRIOR TO THE START OF ANY ACTIVITY, IT IS THE RESPONSIBILITY OF THE SITE'S SITE DEVELOPER (OR OWNER) TO FILE A NOTICE OF INTENT (NOI) FORM WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) IN ORDER TO GAIN COVERAGE UNDER THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. A PRE CONSTRUCTION MEETING IS TO BE HELD WITH ALL DEPARTMENT HEADS PRIOR TO THE START OF CONSTRUCTION.
2. THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE PHASING PLAN INCLUDED WITHIN THE PLAN SET.
3. WETLAND BOUNDARIES ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
4. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
5. INSTALL SILT FENCING, HAY BALES AND CONSTRUCTION ENTRANCES PRIOR TO THE START OF CONSTRUCTION. THESE ARE TO BE MAINTAINED UNTIL THE FINAL PAYMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
6. CLEAR, CUT, CRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC.
7. CONSTRUCT AND/OR INSTALL TEMPORARY OR PERMANENT SEDIMENT AND/OR DETENTION BASIN(S) AS REQUIRED PRIOR TO ROUGH GRADING. THESE FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING RUN-OFF TO THEM.
8. STRIP LOAM AND PAVEMENT, OR RECLAIM EXISTING PAVEMENT WITHIN LIMITS OF WORK PER THE RECOMMENDATIONS OF THE PROJECT ENGINEER AND STOCKPILE EXCESS MATERIAL. STABILIZE STOCKPILE AS NECESSARY.
9. PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, INCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS.
10. PREPARE BUILDING PAD(S) TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
11. INSTALL THE SEWER AND DRAINAGE SYSTEMS FIRST, THEN ANY OTHER UTILITIES IN ACCORDANCE WITH THE PLAN AND DETAILS. ANY CONFLICTS BETWEEN UTILITIES ARE TO BE RESOLVED WITH THE INVOLVEMENT AND APPROVAL OF THE ENGINEER.
12. INSTALL INLET PROTECTION AT ALL CATCH BASINS AS THEY ARE CONSTRUCTED IN ACCORDANCE WITH DETAILS.
13. ALL SWALES AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
14. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS AND/OR PROPERTY.
15. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF "SELECT" SUBGRADE MATERIALS.
16. PAVE ALL PARKING LOTS AND ROADWAYS WITH INITIAL 'BASE COURSE'.
17. PERFORM ALL REMAINING SITE CONSTRUCTION (I.E. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.).
18. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (I.E. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
19. FINISH PAVING ALL ROADWAYS AND PARKING AREAS WITH 'FINISH' COURSE.
20. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
21. ALL CUT AND FILL SLOPES SHALL BE SEEDD/LOADED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
22. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
23. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
24. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS.
25. INSTALL ALL PAINTED PAVEMENT MARKINGS AND SIGNAGE PER THE PLANS AND DETAILS.
26. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
27. UPON COMPLETION OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ANY RELEVANT PERMITTING AGENCIES THAT THE CONSTRUCTION HAS BEEN FINISHED IN A SATISFACTORY MANNER.



### NOTES:

1. EROSION CONTROL MIX BERMS SHALL BE:
  - a. USED ONLY IN AREAS WHERE EROSION WILL OCCUR IN THE FORM OF SHEET EROSION ONLY AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR OTHER DRAINAGE WAY ABOVE THE BERM;
  - b. INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE;
  - c. USED ONLY IF THE AREA UPSLOPE OF THE BERM HAS A SLOPE OF LESS THAN 5% AND
  - d. AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
2. THE EROSION CONTROL MIX USED IN THE FILTER BERMS SHALL BE A WELL-GRADED MIXTURE OF PARTICLE SIZES, AND SHALL MEET THE FOLLOWING STANDARDS:
  - a) THE ORGANIC CONTENT SHALL BE 25-85% OF DRY WEIGHT THAT IS
    - 1) FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK OR EQUIVALENT MANUFACTURED PRODUCTS; AND
    - 2) NOT COMPRISED OF WOOD CHIPS, BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS
  - b) PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 3" SCREEN, 90% TO 100% PASSING A 1" SCREEN, 70% TO 100% PASSING A 0.75" SCREEN, AND 30%-75% PASSING A 0.25" SCREEN
  - c) DOES NOT CONTAIN SILTS, CLAYS OR FINE SANDS
  - d) THE PH SHALL BE BETWEEN 5.0 AND 8.0.
3. ORGANIC FILTER BERMS SHALL BE INSTALLED ALONG A RELATIVELY LEVEL CONTOUR, FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BERM.
5. FROZEN GROUND, OUTCROPS OF BEDROCK, AND VERY ROOTED FORESTED AREAS PRESENT THE MOST PRACTICAL AND EFFECTIVE LOCATIONS FOR ORGANIC FILTER BERMS. OTHER BMPs SHOULD BE USED AT LOW POINTS OF CONCENTRATED RUNOFF, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS, AND AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT HAVE A LARGE CONTRIBUTING AREA.
6. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE STRUCTURE.
7. STRUCTURES MAY BE LEFT IN PLACE ONCE THE SITE IS STABILIZED.

## ORGANIC FILTER BERM

NOT TO SCALE

Design: JAC	Draft: LAZ	Date: 04/29/21
Checked: JAC	Scale: AS NOTED	Project No.: 21090
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9	8/29/22	REVISED PER NHDES Aot COMMENTS	LAZ
8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ
7			
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Designed and Produced in NH

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Stratham, NH 03865

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Plan Name:	EROSION AND SEDIMENT CONTROL DETAILS
Project:	BAYBERRY COMMONS 19 OLD GONIC ROAD, ROCHESTER, NH
Owner of Record:	LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE 19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148

DRAWING No.	E1
SHEET 46 OF 48	JBE PROJECT NO. 21090



## WINTER CONSTRUCTION NOTES

IF THIS CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 85 % MATURE VEGETATION COVER, OR RIPRAP BY OCTOBER 15, THEN THE SITE MUST BE PROTECTED WITH OVER-WINTER STABILIZATION. THE WINTER CONSTRUCTION PERIOD IS FROM OCTOBER 15 THROUGH MAY 15. WINTER EXCAVATION AND EARTHWORK ACTIVITIES SHALL BE LIMITED IN EXTENT AND DURATION, TO MINIMIZE POTENTIAL EROSION AND SEDIMENTATION IMPACTS.

GENERALLY, THE EXPOSED AREA SHOULD BE LIMITED TO ONLY THOSE AREAS IN WHICH WORK WILL OCCUR DURING THE FOLLOWING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW OR RAINFALL EVENT.

SUBSEQUENT WORK AREAS SHOULD NOT BE EXPOSED UNTIL THE PREVIOUSLY EXPOSED WORK AREA HAS BEEN FULLY STABILIZED.

AN AREA IS CONSIDERED "EXPOSED" UNTIL STABILIZED WITH GRAVEL BASE ON A ROAD OR PARKING AREA, PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, OR RIPRAP.

ALL EROSION AND SEDIMENT CONTROL MEASURES INSTALLED FOR THE PROJECT SHOULD HAVE ROUTINE MAINTENANCE AND CLEANING COMPLETED, AND SHOULD BE INSPECTED AND REPAIRED AS NEEDED IN PREPARATION FOR THE CONSTRUCTION SEASON. TEMPORARY EMBANKMENTS SHOULD BE FULLY VEGETATED OR OTHERWISE STABILIZED BY ACCEPTED METHODS.

### MAINTENANCE REQUIREMENTS

MAINTENANCE MEASURES SHOULD CONTINUE AS NEEDED THROUGHOUT CONSTRUCTION, INCLUDING THE OVER-WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHOULD CONDUCT AN INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUING FUNCTION. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHOULD CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF VEGETATION COVER, AND REPAIR ANY DAMAGE AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH). SPECIFICATIONS TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING STABILIZATION TECHNIQUES SHOULD BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15TH THROUGH MAY 15TH.

THE AREA OF EXPOSED, UNSTABILIZED SOIL SHOULD BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT.

STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS:

• ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEEDING AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (SEE DESCRIPTION OF EROSION CONTROL MIX BERM FOR MATERIAL SPECIFICATION).

• ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEEDING AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.

INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH.

ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (E.G., BY NETTING, TRACKING, WOOD CELLULOSE FIBER).

STOCKPILES OF SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. MULCHING SHOULD BE DONE WITHIN 24 HOURS OF STOCKING, AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. NO SOIL STOCKPILE SHOULD BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM ANY WETLAND OR OTHER WATER RESOURCE AREA.

FROZEN MATERIALS, (E.G., FROST LAYER THAT IS REMOVED DURING WINTER CONSTRUCTION), SHOULD BE STOCKPILED SEPARATELY AND IN A LOCATION THAT IS AWAY FROM ANY AREA NEEDING TO BE PROTECTED. STOCKPILES OF FROZEN MATERIAL CAN MELT IN THE SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO THE HIGH MOISTURE CONTENT IN THE SOIL.

INSTALLATION OF EROSION CONTROL BLANKETS SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.

ALL GRASS-LINED DITCHES AND CHANNELS WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY A QUALIFIED PROFESSIONAL ENGINEER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, AS CERTIFIED BY THE CSPSC COUNCIL OF ENVIRONMENTAL INTERNATIONAL, INC. IF A STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHOULD BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAVEL WITH A GRADATION SUCH THAT LESS THAN 12% OF THE SAND PORTION, OR MATERIAL PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.

SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHOULD CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHOULD NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDEDMENT OF THESE BARRIERS.

### ADDITIONAL WINTER MITIGATION MEASURES

• THE TRANSITIONAL PERIODS BETWEEN FALL AND WINTER, AND WINTER AND SPRING MAY REQUIRE A WET WEATHER SHUTDOWN PERIOD. WEATHER CONDITIONS THAT FLUCTUATE BETWEEN ABOVE FREEZING TEMPERATURES DURING THE DAY AND BELOW FREEZING TEMPERATURES AT NIGHT OFTEN RESULT IN SOILS THAT ARE WET AND "CREASY," WHICH ARE SUSCEPTIBLE TO RUTTING AND SOIL MIXING. THE ENVIRONMENTAL MONITOR WILL DETERMINE THE NEED FOR AND DURATION OF A WET WEATHER SHUTDOWN OR OTHER MITIGATIVE ACTIONS IN THESE SITUATIONS.

• NO DICING PRODUCTS WILL BE USED ON THE PROJECT, HOWEVER, SNOW REMOVAL MAY BE REQUIRED TO ALLOW SAFE ACCESS TO THE SITE. SNOW IS TYPICALLY PUSHED OFF OF AN ACCESS ROAD WITH EQUIPMENT SUCH AS A GRADER, SNOWBLOWER, OR BULLDOZER AND THEN STOCKPILED ALONG THE EDGE OF THE ACCESS ROAD, TO MINIMIZE SCRAPING OFF UNDERLYING SOIL OR GRAVEL DURING SNOW REMOVAL. SNOWBLOWER ATTACHMENTS WILL BE INSTALLED ON COMPATIBLE EQUIPMENT.

• WHEN SNOW IS STORED ON THE SITE, A PHYSICAL BARRIER SUCH AS MULCH OR SEPARATION OF SNOW PILES FROM SPOIL PILES WILL BE CONDUCTED TO AVOID MIXING.

• DUE TO FROZEN CONDITIONS, INSTALLATION OF CERTAIN TEMPORARY BMPs TO MINIMIZE EROSION AND CONTROL SEDIMENT (E.G., SILT FENCE AND STAKED STRAW BALES) MAY NOT BE PRACTICABLE. IN THIS CASE, ALTERNATIVE BMPs (SUCH AS COMPOST FILTER SOCKS, EROSION CONTROL BLANKETS, OR STRAW WATTLERS) WILL BE INSTALLED ON BARE FROZEN GROUND OR SNOW (LESS THAN 2 INCHES DEEP) TO MITIGATE EROSION AND SEDIMENT MIGRATION. WEED-FREE STRAW OR HAY MULCH WILL BE APPLIED AND ANCHORED (IF POSSIBLE) TO EXPOSED SOILS AT ALL UPLAND LOCATIONS WITH A 5 PERCENT OR GREATER SLOPE. MULCH MAY BE APPLIED REGARDLESS OF SNOW COVER TO COVER AT LEAST 90 PERCENT OF THE GROUND SURFACE. SNOWMELT WILL MELT THE STRAW INTO THE SNOW TO MELT ONTO BARE SOIL. IN THE SPRING, MULCH WILL NOT BE APPLIED IN WETLANDS OR CONVEYANCE SYSTEMS. INSTALLED SLOPE BREAKERS AND EROSION AND SEDIMENT CONTROL BMPs WILL BE SUBJECT TO INSPECTION AND REPAIR REQUIREMENTS AS OUTLINED IN SECTION 4.15 OF THE SWPPP AND/OR APPLICABLE PERMITS. WHEN THAWING CONDITIONS BEGIN, BMPs WILL BE MONITORED AND UPGRADED AS NEEDED TO PREVENT SEDIMENT DEPOSITION INTO RESOURCES OR OFF SITE. SHOULD FINAL GRADING AND CLEANUP BE COMPLETED THE FOLLOWING SPRING, THEN TEMPORARY SLOPE BREAKERS AND SEDIMENT BARRIERS WILL BE INSTALLED DURING BACKFILL AND/OR ROUGH GRADE ACTIVITIES. BMPs WILL BE INSTALLED AS NEEDED TO PROVIDE A CONDUIT FOR THE CONCENTRATED FLOW OF MELT WATER TO ENSURE THAT SNOW MELT WILL NOT CAUSE EROSION AND SEDIMENT LOSS.

• SEPARATION WILL BE MAINTAINED BETWEEN THE TOPSOIL, SUBSOIL, AND/OR SNOW PILES TO PREVENT MIXING. WHERE THE SEPARATION CANNOT BE MAINTAINED, THE ENVIRONMENTAL MONITOR MAY APPROVE THE USE OF A PHYSICAL BARRIER ON A SITE-SPECIFIC BASIS, SUCH AS A THICK LAYER OF CERTIFIED WEED-FREE STRAW OR HAY MULCH OR SILT FENCE, BETWEEN THE SPOIL, TOPSOIL, AND/OR SNOW PILES TO PREVENT MIXING.

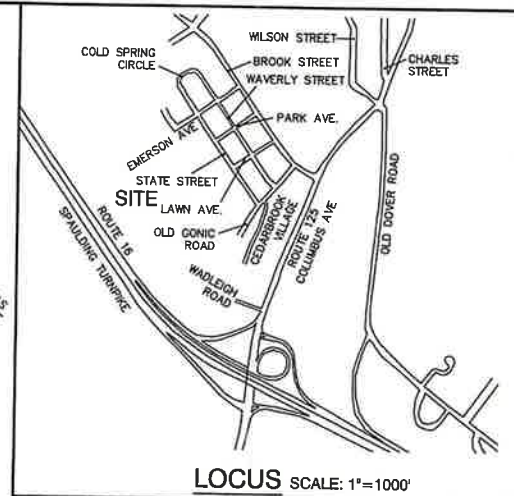
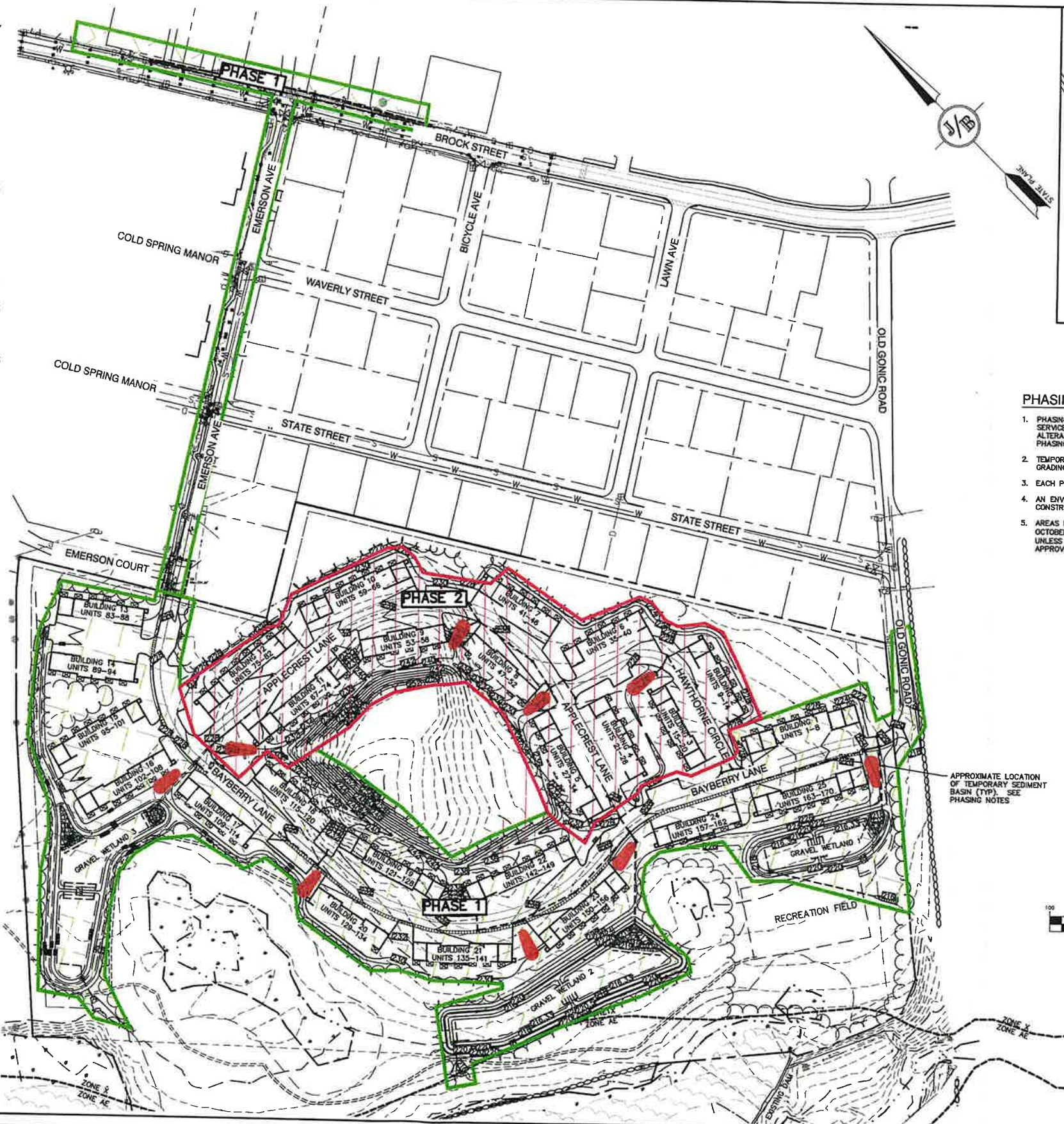
• THE AMOUNT OF OPEN EXCAVATION WILL BE MINIMIZED DURING WINTER CONSTRUCTION TO REDUCE THE AMOUNT OF FROZEN BACKFILL. EXCAVATED SOIL MATERIAL WILL THEN BE USED TO BACKFILL THE TRENCH; THE SUBSOIL WILL BE REPLACED FIRST, AND THEN THE TOPSOIL IN CASES WHERE TOPSOIL HAS BEEN SEGREGATED. IN SOME SITUATIONS, FROZEN UPLAND TOPSOIL WILL NOT BE REPLACED DURING FROZEN CONDITIONS. THIS OPTION WILL BE IMPLEMENTED WHEN THE TRENCH, SUBSOIL, BACKFILL, AND TOPSOIL ARE FROZEN PREVENTING PROPER REPLACEMENT OF SOILS AND COMPACTION OF THE TRENCH. INSTEAD, THE TRENCH WILL BE BACKFILLED WITH SUBSOIL ONLY, AND TOPSOIL REPLACEMENT AND FINAL GRADING WILL OCCUR DURING THE SUBSEQUENT SPRING OR EARLY SUMMER. THIS OPTION WILL PREVENT MULTIPLE TRIPS INTO AN AREA TO RECLAIM AN EXCESSIVE TOPSOIL CROWN OR REPAIR SUBSIDENCE THAT HAS TAKEN PLACE OVER THE TRENCH LINE DURING THE FREEZE/THAW CYCLE. THE TOPSOIL STOCKPILE WILL REMAIN TEMPORARILY STABILIZED WITH COVER CROP AND/OR MULCH (IN ACCORDANCE WITH SECTION 4.4 OF THE SWPPP) THROUGHOUT THIS PERIOD TO PREVENT EROSION AND OR SEDIMENT MIGRATION OFF THE CONSTRUCTION WORKSPACE. ADEQUATE BREAKS OR GAPS IN THE TOPSOIL STOCKPILES WILL BE INSTALLED FOR DRAINAGE SO THAT SPRING RUNOFF AND SNOW MELT WILL NOT IMPACT THE TOPSOIL PILES AND ADJACENT AREAS.

• IT IS NOT ANTICIPATED THAT CONSTRUCTION DEWATERING WILL BE CONDUCTED DURING WINTER CONDITIONS. IF CONSTRUCTION DEWATERING IS REQUIRED, THE PROCEDURES IN SECTION 4.13 OF THE SWPPP WILL BE FOLLOWED, WITH THE FOLLOWING ADDITIONAL CONSIDERATIONS:

1. MEASURES WILL BE TAKEN TO PROTECT PUMPS FROM FREEZING TO AVOID DISRUPTIONS IN DEWATERING AND POTENTIAL SPILLS OR LEAKS OF LUBRICANTS OR FUEL (E.G., PLACE PUMPS INSIDE PORTABLE SHELTERS WITH HEATERS);

2. DEWATERING STRUCTURES MAY BE INSTALLED EARLY IN THE CONSTRUCTION PROCESS BEFORE FROZEN GROUND CONDITIONS EXIST, WHERE FEASIBLE;

3. REMOVAL OF DEWATERING STRUCTURES WILL BE CONDUCTED AS SOON AS PRACTICABLE AFTER COMPLETION OF DEWATERING IN AN ATTEMPT TO REMOVE THE STRUCTURE BEFORE THEY ARE FROZEN.



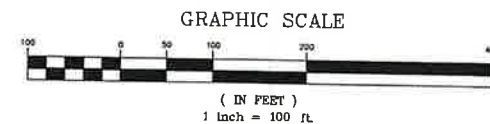
## PHASING NOTES:

- PHASING IS MANDATORY PER NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES AND NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES ALTERATION OF TERRAIN SHALL BE NOTIFIED OF ANY ALTERATION OF THE PHASING PLAN.
- TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED PRIOR TO THE ROUGH GRADING OF EACH PHASE.
- EACH PHASE MUST BE STABILIZED BEFORE PROCEEDING TO SUCCESSIVE PHASES.
- AN ENVIRONMENTAL MONITOR SHALL BE EMPLOYED TO EVALUATE THE SITE DURING CONSTRUCTION.
- AREAS MUST BE STABILIZED PRIOR TO WINTER CONSTRUCTION SEASON FROM OCTOBER 15 THROUGH MAY 15 PURSUANT TO ENR-WQ 1505.08 (1 AC OPEN) UNLESS A WINTER CONSTRUCTION/STABILIZATION PLAN IS SUBMITTED AND APPROVED.

## PHASING SCHEDULE:

PHASE 1	10.9 AC
CONSTRUCT:	BAYBERRY LANE ALL BUILDINGS FRONTING ON BAYBERRY LANE ALL PONDS
OFFSITE:	1.5 AC
	OFFSITE WORK IN EMERSON STREET OFFSITE WIDENING OF BROCK AVE
PHASE 2	5.4 AC
CONSTRUCT:	APPLECREST LANE HAWTHORNE CIRCLE ALL BUILDINGS FRONTING ON APPLECREST LANE AND HAWTHORNE CIRCLE

APPROXIMATE LOCATION  
OF TEMPORARY SEDIMENT  
BASIN (TYP.)  
SEE  
PHASING NOTES



PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,309,695 SQ. FT. ±  
30.07 ACRES ±

Design: JAC Draft: LAZ Date: 04/29/21  
Checked: JAC Scale: AS NOTED Project No.: 21090  
Drawing Name: 21090-PLAN.dwg

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8	8/3/22	REVISED PER NHDES SEWER COMMENTS	LAZ

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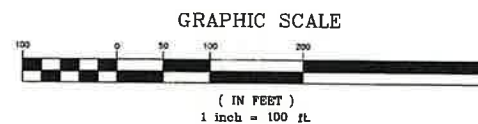
Plan Name: **PHASING PLAN**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.

**PH**

SHEET 47 OF 48  
JBE PROJECT NO 21090





PROJECT PARCEL  
CITY OF ROCHESTER  
TAX MAP 131, LOT 10

APPLICANT  
GREEN AND COMPANY  
11 LAFAYETTE ROAD  
NORTH HAMPTON, NH 03862

TOTAL LOT AREA  
1,309,696 SQ. FT. ±  
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REV.	DATE	REVISION	BY

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Plan Name: **CURRENT USE EXHIBIT**  
Project: **BAYBERRY COMMONS**  
**19 OLD GONIC ROAD, ROCHESTER, NH**  
Owner of Record: **LEO P. LACOUTURE REV. TRUST & WILLIAM B. LACOUTURE**  
**19 OLD GONIC RD., ROCHESTER, NH 03867 BK 4093 PG 148**

DRAWING No.  
**CU**  
SHEET 48 OF 48  
JBE PROJECT NO. 21090















