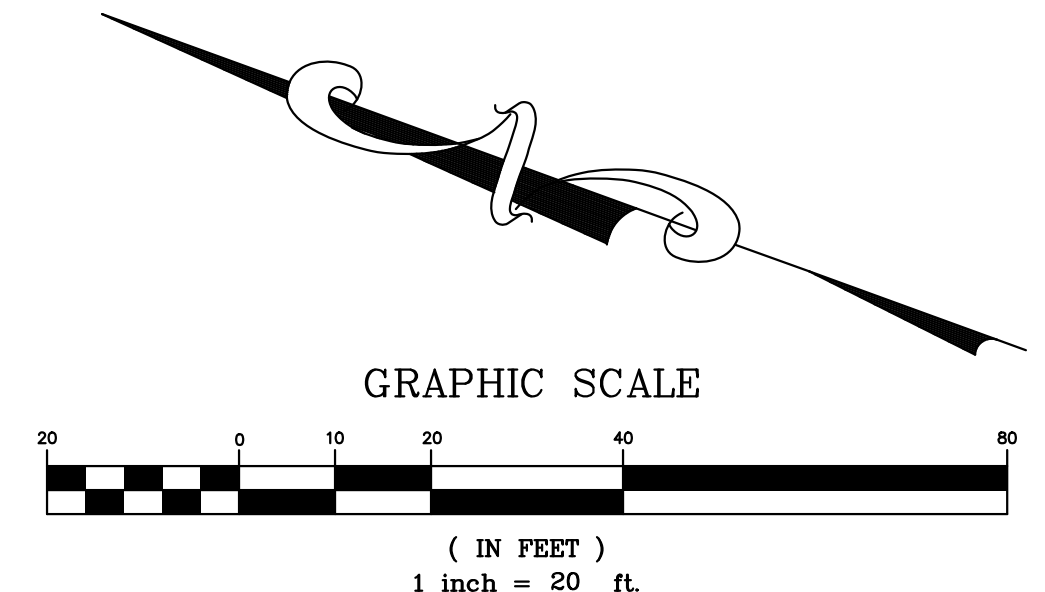
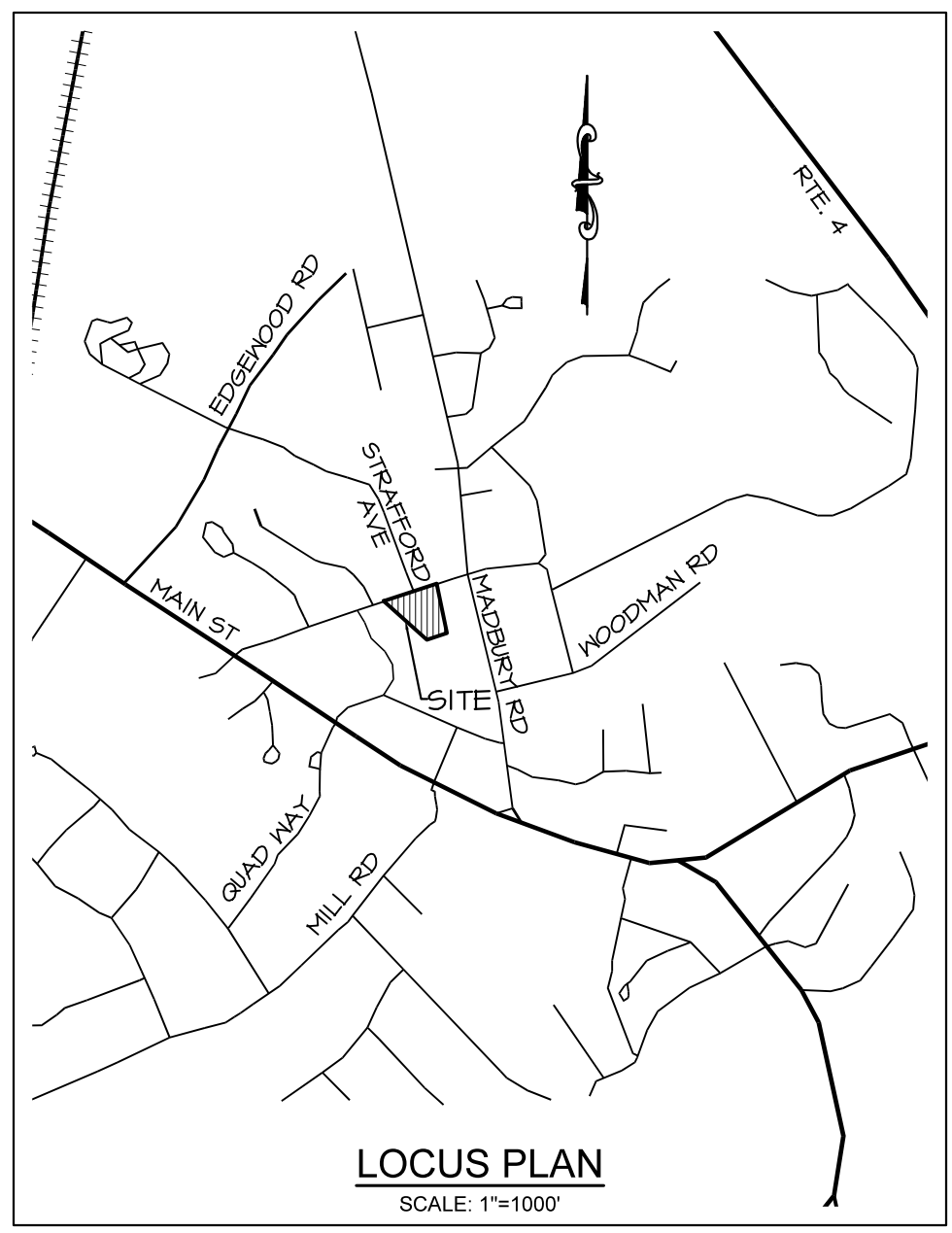
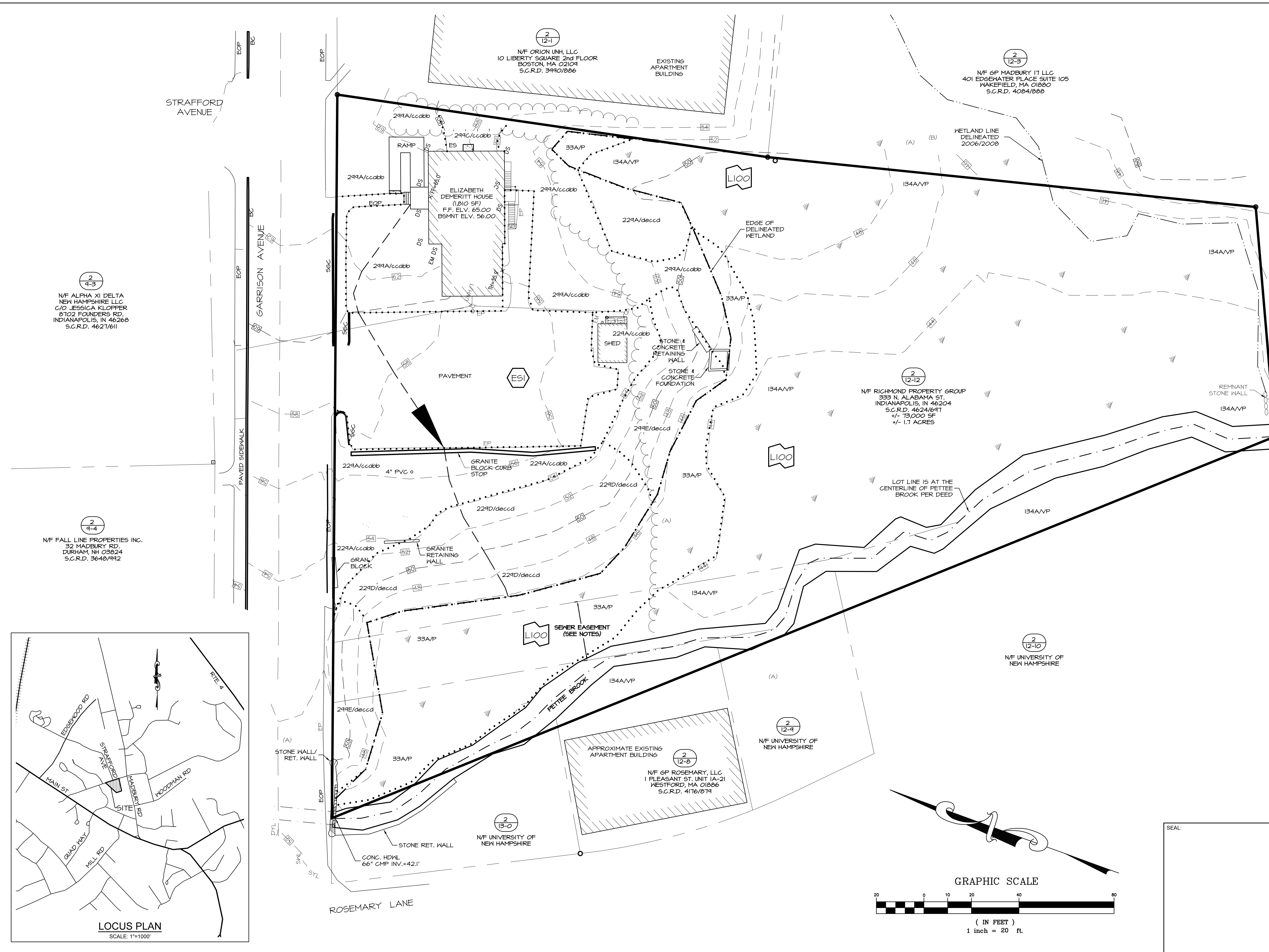


**NOTES:**

- OWNER OF RECORD:  
TAX MAP 2, LOT 12-12  
RICHMOND PROPERTY GROUP  
333 N. ALABAMA ST.  
INDIANAPOLIS, IN 46204  
S.C.R.D. 4626 PG 647
- THE INTENT OF THIS PLAN IS TO CALCULATE PRE-DEVELOPMENT SUBCATCHMENT AREAS AND FLOW PATHS FOR MODELING VARIOUS STORM EVENTS IN PREPARATION FOR SITE IMPROVEMENTS.

**PRE-DEVELOPMENT DRAINAGE AREA CALCCS:**

DRAINAGE ANALYSIS TOTAL AREA = 71,850 SF  
 DRAINAGE ANALYSIS IMPERVIOUS = 9,335 SF  
 DRAINAGE ANALYSIS % IMPERVIOUS = 12.0%  
 DRAINAGE ANALYSIS UNDISTURBED = 71,850 SF  
 DRAINAGE ANALYSIS % UNDISTURBED = 100%



1	MAR 24, 2020	FOR APPROVAL	
ISS. DATE:	DESCRIPTION OF ISSUE:		CHK.
DRAWN:	JJM	DESIGN:	JJM
CHECKED:	BDS	CHECKED:	BDS



CLIENT:  
**RICHMOND PROPERTY GROUP**  
 333 N. ALABAMA ST.  
 INDIANAPOLIS, IN 46204

TITLE:  
**PREDEVELOPMENT DRAINAGE PLAN**  
 FOR  
**RICHMOND PROPERTY GROUP**  
 ELIZABETH DEMERRITT HOUSE  
 18 GARRISON AVENUE (SITE)  
 DURHAM, NH 03824

PROJECT:	SCALE:	SHEET:
19-083	1"=20'	SW1

SEAL:



**NOTES:**

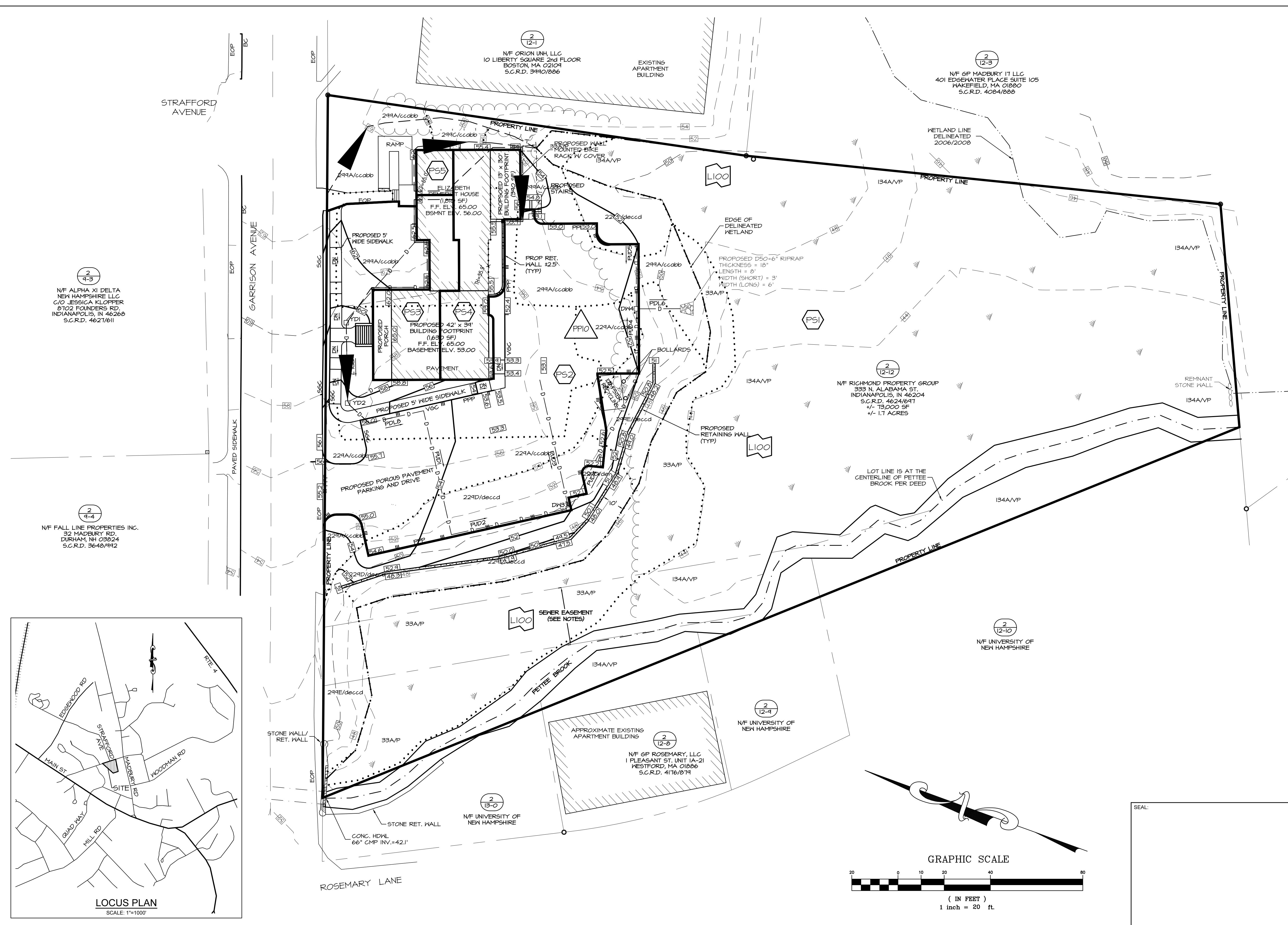
1. OWNER OF RECORD:  
TAX MAP 2, LOT 12-12  
RICHMOND PROPERTY GROUP  
333 N. ALABAMA ST.  
INDIANAPOLIS, IN 46204  
SCRD BK 4626 PG 647
2. THE INTENT OF THIS PLAN IS TO CALCULATE POST-DEVELOPMENT SUBCATCHMENT AREAS AND FLOW PATHS FOR MODELING VARIOUS STORM EVENTS IN PREPARATION FOR SITE IMPROVEMENTS.
3. THE LONGEST TC PATH FOR SUBCATCHMENT "PS2" IS DIRECTLY ON THE SURFACE OF THE POROUS PAVEMENT. HYDROCAD SUGGESTS MODELING A TC OF 120 MINUTES TO BE USED FOR A POROUS PAVEMENT WITH A 4" BASE (MEASURED ABOVE THE UNDERDRAINS). THE PROPOSED POROUS PAVEMENT HAS A 26" BASE, THEREFORE 500 MINUTES WAS CALCULATED AS THE APPROPRIATE TC VALUE.

**PRE-DEVELOPMENT DRAINAGE AREA CALC:**

DRAINAGE ANALYSIS TOTAL AREA = 71,850 SF

DRAINAGE ANALYSIS IMPERVIOUS = 5,540 SF  
DRAINAGE ANALYSIS % IMPERVIOUS = 7.1%

DRAINAGE ANALYSIS UNDISTURBED = 55,180 SF  
DRAINAGE ANALYSIS % UNDISTURBED = 71.7%



2  
4-3  
N/F ALPHA XI DELTA  
NEW HAMPSHIRE LLC  
C/O JESSICA KLOPPER  
8702 FOUNDERS RD.  
INDIANAPOLIS, IN 46269  
S.C.R.D. 4621/611

2  
4-4  
N/F FALL LINE PROPERTIES INC.  
32 MADURY RD.  
DURHAM, NH 03824  
S.C.R.D. 3649/442

2  
12-1  
N/F ORION UNH, LLC  
10 LIBERTY SQUARE 2ND FLOOR  
BOSTON, MA 02104  
S.C.R.D. 3440/886

2  
12-3  
N/F 6P MADURY IT LLC  
401 EDGEWATER PLACE SUITE 105  
WAKEFIELD, MA 01880  
S.C.R.D. 4084/888

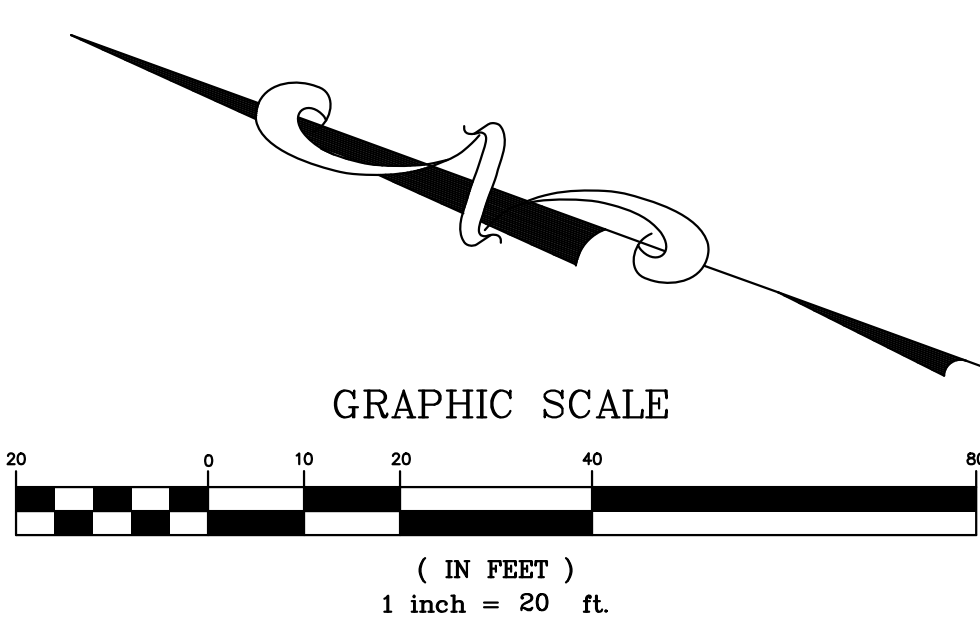
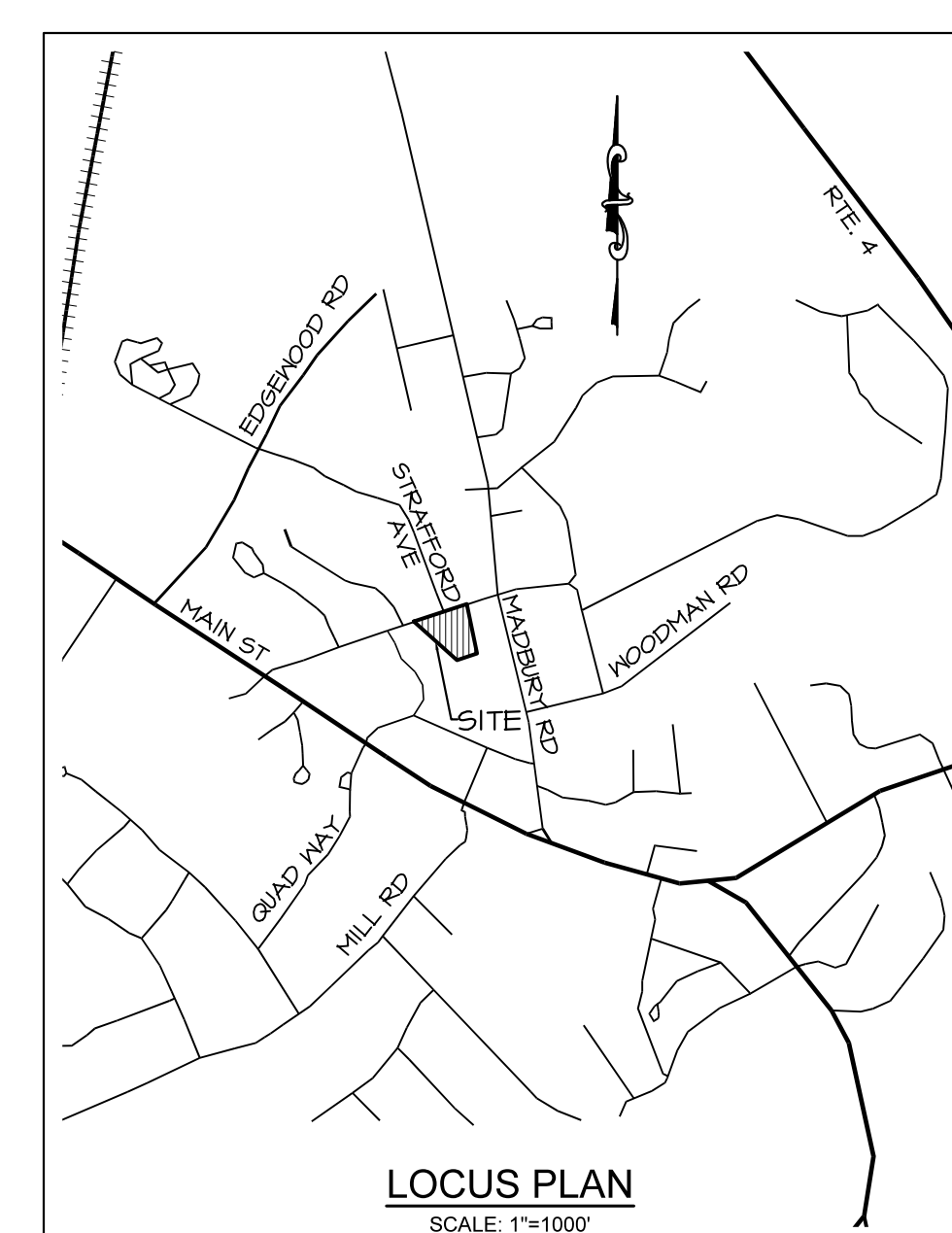
2  
12-12  
N/F RICHMOND PROPERTY GROUP  
333 N. ALABAMA ST.  
INDIANAPOLIS, IN 46204  
S.C.R.D. 4624/647  
+/- 73,000 SF  
+/- 1.7 ACRES

2  
12-10  
N/F UNIVERSITY OF  
NEW HAMPSHIRE

2  
12-4  
N/F UNIVERSITY OF  
NEW HAMPSHIRE

2  
12-8  
N/F 6P ROSEMARY, LLC  
1 PLEASANT ST. UNIT 1A-21  
WESTFORD, MA 01886  
S.C.R.D. 4176/814

2  
13-0  
N/F UNIVERSITY OF  
NEW HAMPSHIRE



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**EMANUEL ENGINEERING**  
civil & structural consultants, land planners  
118 PORTSMOUTH AVENUE, A202  
STRATHAM, NH 03885  
P: 603-772-4400 F: 603-772-4487  
WWW.EMANUELENGINEERING.COM

CLIENT:  
**RICHMOND PROPERTY GROUP**  
333 N. ALABAMA ST.  
INDIANAPOLIS, IN 46204

TITLE:  
**POSTDEVELOPMENT DRAINAGE PLAN**  
FOR  
**RICHMOND PROPERTY GROUP**  
ELIZABETH DEMERITT HOUSE  
18 GARRISON AVENUE (SITE)  
DURHAM, NH 03824

PROJECT:	SCALE:	SHEET:
19-083	1"=20'	SW2

SEAL: