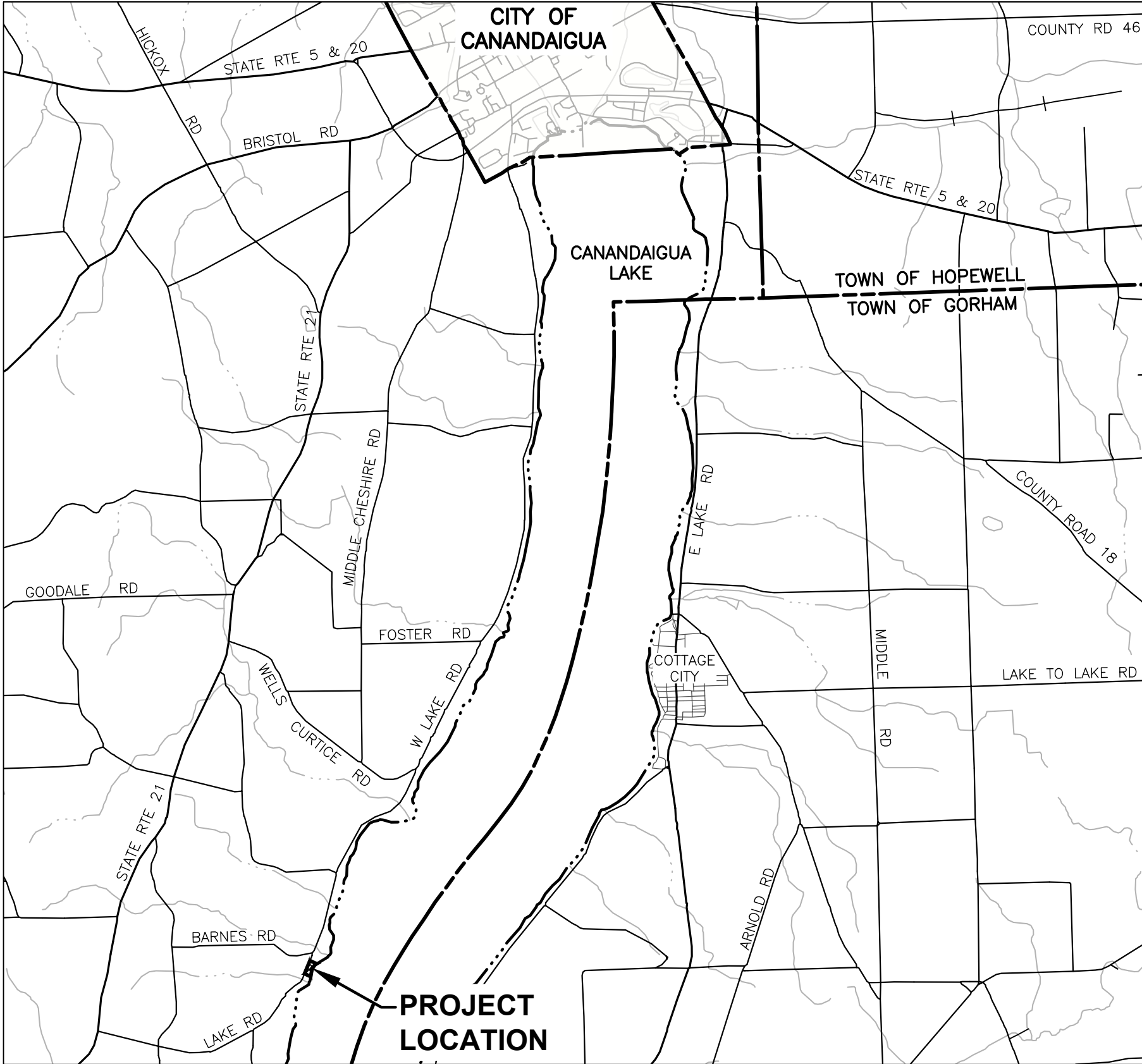


PRELIMINARY/FINAL SITE PLANS  
for  
**BURKE-SHEPARD RESIDENCE**

5007 & 5009 COUNTY ROAD 16

SITUATE IN:  
TOWN OF CANANDAIGUA - ONTARIO COUNTY - STATE OF NEW YORK



LOCATION MAP  
NOT TO SCALE

  
**MARATHON**  
ENGINEERING  
ROCHESTER LOCATION  
39 CASCADE DRIVE  
ROCHESTER, NY 14614  
585-458-7770  
ITHACA LOCATION  
840 HANSHAW RD, STE 12  
ITHACA, NY 14850  
607-241-2917  
[www.marathoneng.com](http://www.marathoneng.com)

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MARATHON ENGINEERING  
OF ROCHESTER, P.C.

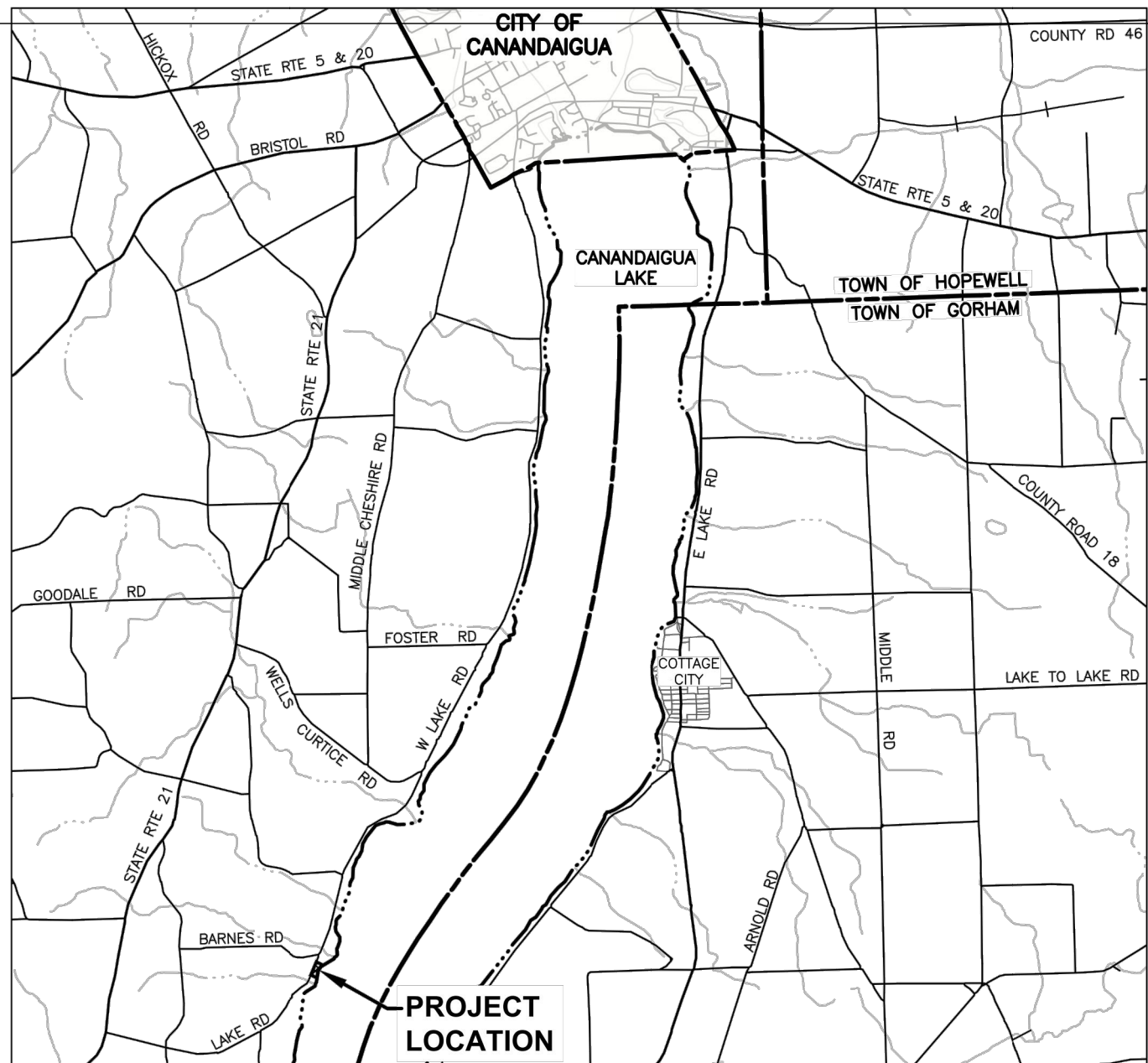
LIST OF DRAWINGS		
No.	DWG. No.	DESCRIPTION
1	COVER	COVER
2	V1.0	EXISTING CONDITIONS & DEMOLITION PLAN
3	C2.0	SUBDIVISION & LAYOUT PLAN
4	C3.0	GRADING & UTILITY PLAN
5	C3.1	SEPTIC SYSTEM DESIGN PLAN
6	C4.0	EROSION CONTROL & LANDSCAPING PLAN

### NOTES

- 1. MAPPING** - THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE PREPARED BY VENEZIA LAND SURVEYORS AND CIVIL ENGINEERS. THE ENGINEER MAKES NO WARRANTY AS TO THE LOCATION, SIZE, TYPE, ELEVATION, AND/OR NUMBER OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE VICINITY OF THE NEW INFRASTRUCTURE.
- 2. STAKEOUT** - THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (1-800-962-7962) FOR A UTILITY STAKEOUT 48 HOURS IN ADVANCE OF COMMENCING WORK. STAKEOUT OF PRIVATE UTILITIES SHALL BE COORDINATED WITH THE OWNER.
- 3. BOUNDARY** - BOUNDARY INFORMATION IS SHOWN FOR GRAPHICAL REPRESENTATION ONLY.
- 4. DATUM** - THE VERTICAL DATUM WAS SET TO NAVD 88.
- 5. COORDINATE SYSTEM** - THE PROJECT IS NOT TIED TO ANY COORDINATE SYSTEM, AND THE HORIZONTAL DATUM IS THEREFORE ASSUMED.
- 6. FLOODPLAIN** - THE PROPERTY IS LOCATED IN ZONE 'X' AND IS NOT LOCATED GRAPHICALLY IN THE FLOODPLAIN AS SHOWN ON COMMUNITY PANEL No 3805980025C, DATED 03/03/1997.

### SPECIAL DEMOLITION NOTES

- THE CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO BE REMOVED DO NOT HAVE ANY IN SERVICE LATERALS OR SERVICES CONNECTED TO THEM. ANY LATERALS/ SERVICES THAT ARE STILL IN SERVICE SHALL BE RECONNECTED AND THE OWNER'S ON-SITE REPRESENTATIVE AND DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- IT IS INTENDED TO LIMIT DISTURBANCE AS MUCH AS POSSIBLE. THE CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE DEMOLITION SCHEDULE, PHASING, PEDESTRIAN SAFETY, PARKING AND VEHICULAR CIRCULATION, STOCKPILE LOCATIONS AND SECURITY FENCING WITH OWNERS ON-SITE REPRESENTATIVE. ANY DISTURBANCE OUTSIDE THE WORK LIMIT LINE SHALL BE COORDINATED WITH THE OWNER'S ON-SITE REPRESENTATIVE.
- ITEMS TO BE SALVAGED SHALL BE STOCKPILED IN A SECURE LOCATION FOR REINSTALLATION. ANY ITEMS DAMAGED DURING REMOVAL SO AS TO BE UN-USEABLE SHALL BE REPLACED IN KIND.

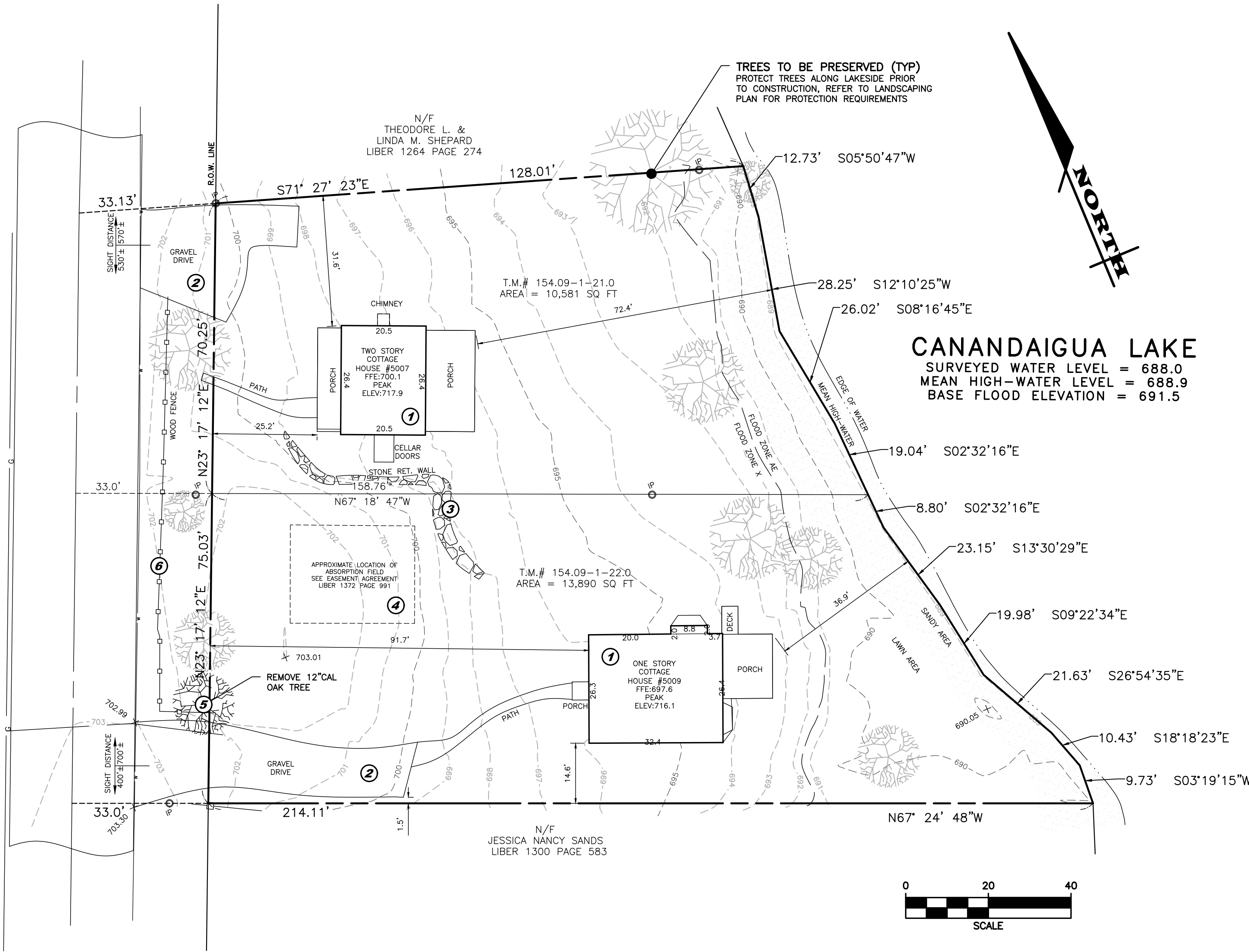


LOCATION MAP  
NOT TO SCALE

COUNTY ROAD 16  
(R.O.W. WIDTH VARIES)

### LEGEND

EXISTING	DESCRIPTION
	SIGN
	LIGHT POLE
	POWER POLE
	ELECTRIC CONDUIT & STRUCTURE
	TELEPHONE CONDUIT & STRUCTURE
	CENTERLINE AND STATIONING
	PROPERTY LINE
	FENCE (DESCRIPTION)
	SANITARY SEWER WITH MANHOLE
	STORM SEWER, MANHOLE & FIELD/DROP INLET
	WATER MAIN WITH HYDRANT & GATE VALVE
	CENTERLINE OF SWALE
	CONTOUR
	SPOT ELEVATION
	TREE LINE



### DEMOLITION SCHEDULE

- DEMOLISH HOUSE IN ENTIRETY, INCLUDING BASEMENT. REMOVE AND DISPOSE OF MATERIALS. COORDINATE SERVICE ABANDONMENT WITH UTILITY PROVIDERS.
- REMOVE EXISTING GRAVEL PARKING AREA AND HARDSCAPES.
- REMOVE STONE GARDEN WALL IN ENTIRETY.
- DECOMMISSION EXISTING SEPTIC SYSTEM. SEPTIC AND PUMP TANKS SHALL BE REMOVED AND DISPOSED.
- REMOVE TREE AND DISPOSE OFFSITE. REVIEW TREES TO BE REMOVED WITH OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
- REMOVE FENCE AND DISPOSE

APPROVED BY:	_____
PLANNING BOARD CHAIRPERSON	_____
DATE:	_____
APPROVED BY:	_____
TOWN ENGINEER	_____
DATE:	_____
APPROVED BY:	_____
TOWN WATER SUPERINTENDANT	_____
DATE:	_____

**MARATHON ENGINEERING**  
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**PRELIMINARY/FINAL SITE PLANS**  
for  
**BURKE-SHEPARD RESIDENCE**

STATE OF NEW YORK  
TOWN OF CANANDAIGUA  
5007 & 5009 COUNTY ROAD 16  
ONTARIO COUNTY

JOB NO:	1436-22	
SCALE:	AS SHOWN	
DRAWN:	LJB	
DESIGNED:	RPB	
DATE:	7/1/22	
REVISIONS		
DATE	BY	REVISION
07/15/22	LJB	PRC COMMENTS
07/25/22	LJB	NOTES
07/27/22	LJB	TOWN COMMENTS

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 14B, SECTION 27(2)(b) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO USE ANY SEAL, INSTRUMENT OR SIGN OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR IN ANY MANNER THAT BEARS THE SEAL OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR OR VIOLATES THE EXERCISE OF THE RIGHTS OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR. IT IS THE POLICY OF MARATHON ENGINEERING TO FOLLOW THE ETHICS OF THE PROFESSION AND TO MAINTAIN THE HIGHEST STANDARDS OF INTEGRITY AND HONOR IN ALL OF ITS BUSINESS AND PROFESSIONAL ACTIVITIES. ANY VIOLATION OF THESE STANDARDS SHALL BE REPORTED TO THE APPROPRIATE REGULATORY AGENCIES AND A SPECIFIC DISCIPLINARY ACTION SHALL BE TAKEN.

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ROBERT P. BRINGLEY

DRAWING TITLE:  
**EXISTING CONDITIONS & DEMOLITION PLAN**

2 of 6	<b>V1.0</b>
SHEET No:	
1436-22	
JOB No:	DRAWING No:

PROJECT STATISTICS

1. GENERAL:

1.1 APPLICANT – LAUREEN BURKE & THEODORE SHEPARD  
5005 COUNTY ROAD 16  
CANANDAIGUA, NY 14424

1.2 PROPERTY ADDRESS – 5007 & 5009 COUNTY ROAD 16  
TOWN OF CANANDAIGUA, NEW YORK

1.3 TAX ACCOUNT – 154.09-1-21.000 & 154.09-1-22.000
2. PARCEL STATISTICS:

3.1 AREA – 0.562 ACRES (24,471 SF)

3.2 EXISTING CONDITIONS: TWO SEPARATE PROPERTIES WITH EXISTING 600 AND 900 SQUARE FOOT COTTAGES ON THE RESPECTIVE LOTS.

3.3 PROPOSED CONDITIONS: COMBINE SEPARATE LOTS AND CONSTRUCT AN APPROXIMATELY 3,667 SF SINGLE FAMILY RESIDENCE WITH DRIVEWAY, POOL, AND SEPTIC SYSTEM.
3. ZONING REGULATIONS:

2.1 ZONING DISTRICT – RESIDENTIAL LAKE DISTRICT (RLD)

2.2 CODE REQUIREMENTS –

ITEM	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA	20,000 SF	24,471 SF	24,471 SF
MIN. LOT WIDTH	125 FT	70.25 FT	145.28 FT
MAX BLDG. COVERAGE	15%	8.5%	15.0%
MAX LOT COVERAGE	25%	14.3%	26.9%*
BUILDING HEIGHT	25 FT	<25FT	25 FT MAX

PRINCIPAL BUILDING SETBACKS:

FRONT SETBACK	60 FT	25.2 FT	40.0 FT*
SIDE SETBACK	12 FT	14.6 FT	12.0 FT
REAR (LAKE) SETBACK	60 FT	36.9 FT	37.0 FT*
DRIVEWAY SETBACK	10 FT	1.5 FT	3.8 FT
- (\* = VARIANCE NEEDED)

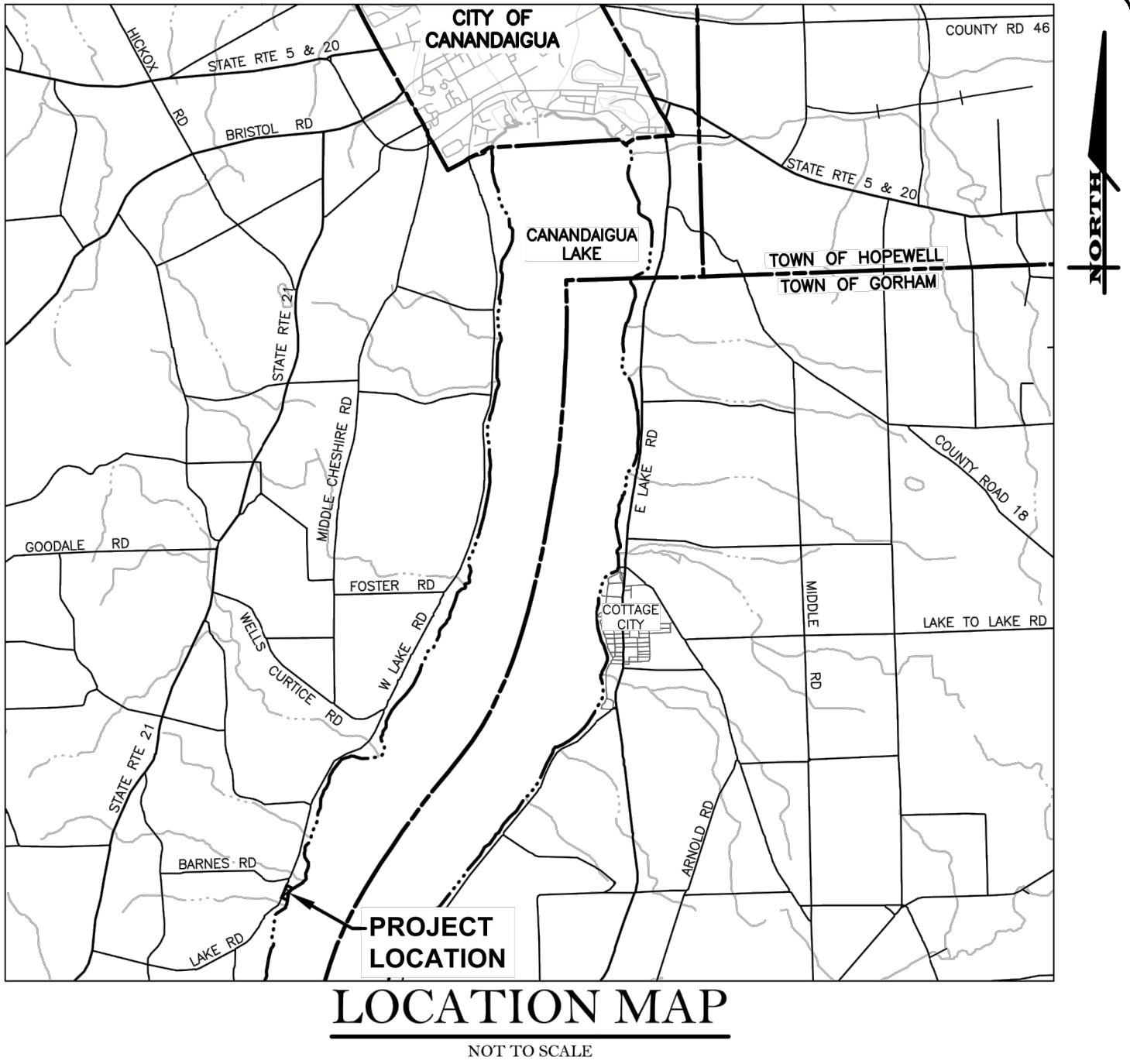
LEGEND:		
EXISTING	PROPOSED	DESCRIPTION
		SIGN
		LIGHT POLE
		POWER POLE
		ELECTRIC CONDUIT & STRUCTURE
		RIGHT-OF-WAY OR PROPERTY LINE
		CURB
		FENCE (DESCRIPTION)
		STORM SEWER, MANHOLE & FIELD/DROP INLET
		WATER MAIN WITH HYDRANT & GATE VALVE
		CENTERLINE OF SWALE
		TREE LINE

1) GENERAL NOTES:

1. **APPLICABILITY** - THE NOTES AND INFORMATION PROVIDED ON THIS SHEET ARE APPLICABLE TO ALL "C" SERIES DRAWINGS. THE "C" SERIES DRAWINGS COVER SITE RELATED IMPROVEMENTS OUTSIDE THE BUILDING ENVELOPE. THE BUILDING ENVELOPE INCLUDES ALL AREA WITHIN 5' OUTSIDE OF THE BUILDING'S EXTERIOR WALL.
2. **MAPPING** - THE EXISTING UNDERGROUND UTILITIES WERE PLOTTED BASED ON RECORD MAPPING SUPPLIED BY OTHERS. THE ENGINEER MAKES NO WARRANTY AS TO THE LOCATION, SIZE, TYPE, ELEVATION, AND/OR NUMBER OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE VICINITY OF THE NEW INFRASTRUCTURE.
3. **STAKEOUT** - THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (1-800-962-7962) FOR A UTILITY STAKEOUT 48 HOURS IN ADVANCE OF COMMENCING WORK. STAKEOUT OF PRIVATE UTILITIES SHALL BE COORDINATED WITH THE OWNER.
4. **PROPERTY PROTECTION** - THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING PAVEMENT, CURBS, WALKS, LAWNS, TREES, ETC. CAUSED BY THEIR CONSTRUCTION OPERATIONS. ALL DAMAGE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE.
5. **ACCESS** - THE CONTRACTOR SHALL PROVIDE SATISFACTORY VEHICULAR ACCESS TO ALL ADJOINING PROPERTIES, PRIVATE ROADWAYS, PARKING FACILITIES, AND PUBLIC STREETS DURING CONSTRUCTION.
6. **SITE SAFETY** - PRIOR TO AND THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL POST SIGNAGE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA). JOB SAFETY AND MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE CONTRACTOR.
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10. **PERMIT(S)** - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE APPLICABLE MUNICIPALITY OR AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR ALL BONDS AND INSURANCES AND THE OWNER IS RESPONSIBLE FOR PERMIT FEES UNLESS OTHERWISE STATED IN THE OWNER/ CONTRACTOR AGREEMENT.
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2) ADDITIONAL NOTES:

1. **ELECTRICAL SERVICE** - NEW ELECTRICAL SERVICE SHALL BE COORDINATED WITH RG&E.
2. **DOWNSPOUTS** - ALL DOWNSPOUTS FOR NEW HOME & GARAGE SHALL BE DIRECTED TO THE PROPOSED RAIN GARDENS.
3. **PROPOSED LIGHTING** - ALL LIGHTING TO BE INSTALLED SHALL BE DARK SKY COMPLIANT AND SHALL MEET THE REQUIREMENTS OF SECTION 220-77 OF THE CANANDAIGUA TOWN CODE.



APPROVED BY:

PLANNING BOARD CHAIRPERSON  
DATE: \_\_\_\_\_

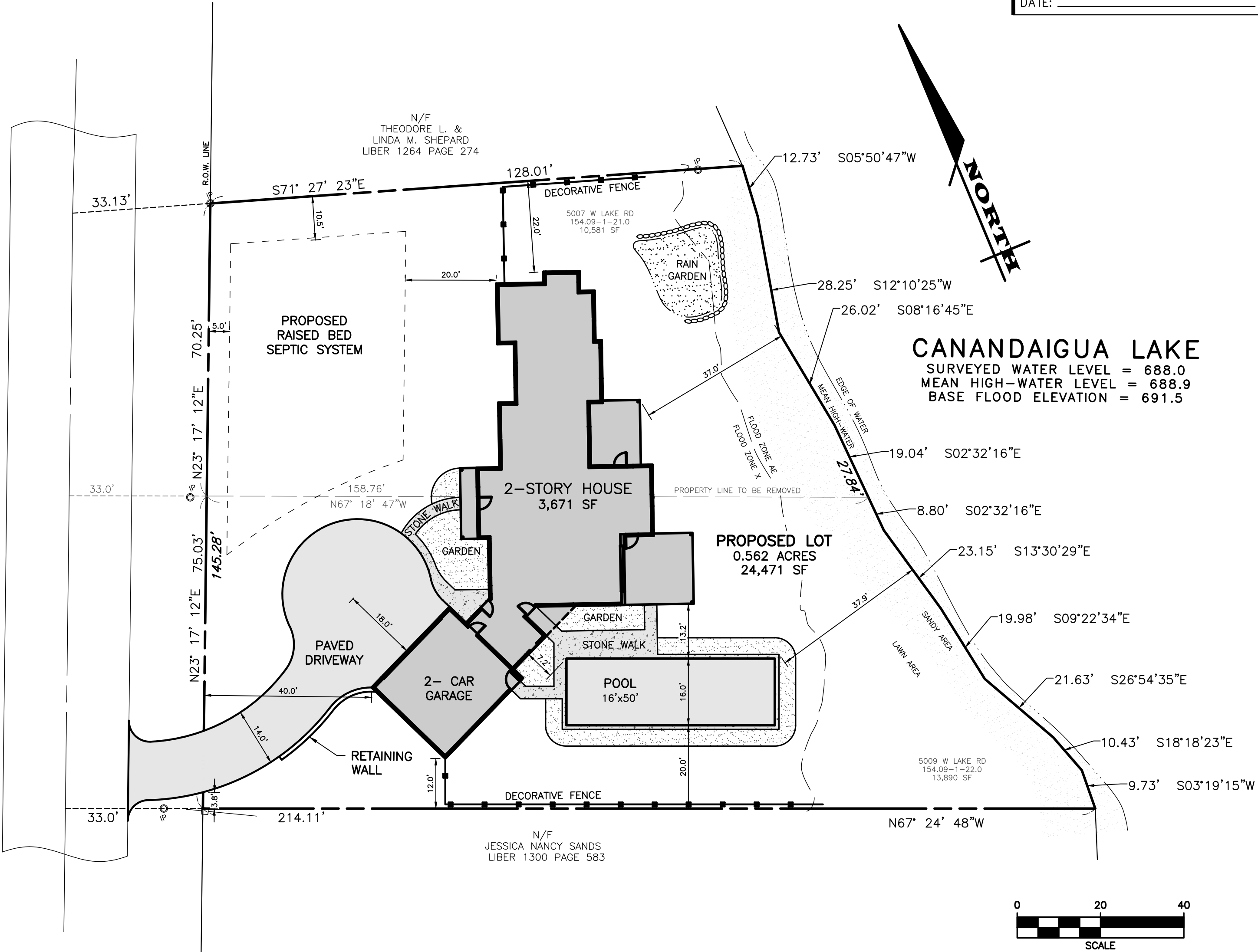
APPROVED BY:

TOWN ENGINEER  
DATE: \_\_\_\_\_

APPROVED BY:

TOWN WATER SUPERINTENDANT  
DATE: \_\_\_\_\_

COUNTY ROAD 16  
(R.O.W. WIDTH VARIES)



**MARATHON**  
ENGINEERING

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ROCHESTER, NY 14614  
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for  
**BURKE-SHEPARD RESIDENCE**

STATE OF NEW YORK  
TOWN OF CANANDAIGUA  
5007 & 5009 COUNTY ROAD 16  
ONTARIO COUNTY

JOB NO: 1436-22  
SCALE: AS SHOWN  
DRAWN: LJB  
DESIGNED: RPB  
DATE: 7/1/22

REVISIONS  

DATE	BY	REVISION
07/29/22	LJB	NOTES
07/27/22	LJB	TOWN COMMENTS

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 270(3)(b) FOR ANY PERSON, UNDER ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO USE ANY SEAL, OR OTHER BEARING THE SEAL OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR, WITHOUT THE WRITING AND SIGNATURE OF THE LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR. THE VIOLATION OF THIS SECTION OF THE EDUCATION LAW IS A VIOLATION OF THE PROFESSIONAL ENGINEERING OR LAND SURVEYING ACT, AND THE VIOLATION OF THIS SECTION OF THE EDUCATION LAW IS A VIOLATION OF THE PROFESSIONAL ENGINEERING OR LAND SURVEYING ACT, AND THE VIOLATION OF THIS SECTION OF THE EDUCATION LAW IS A VIOLATION OF THE PROFESSIONAL ENGINEERING OR LAND SURVEYING ACT.

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DRAWING TITLE:  
SUBDIVISION &  
LAYOUT PLAN

3 of 6  
SHEET No:

1436-22  
JOB No:

C2.0  
DRAWING No:

PRELIMINARY/FINAL SITE PLANS  
for  
**BURKE-SHEPARD RESIDENCE**

STATE OF NEW YORK

5007 & 5009 COUNTY ROAD 16  
ONTARIO COUNTY

TOWN OF CANANDAIGUA

JOB NO: 1436-22  
SCALE: AS SHOWN  
DRAWN: LJB  
DESIGNED: RPB  
DATE: 7/1/22

REVISIONS  
DATE BY REVISION

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 140, SECTION 270(1)(b) FOR ANY PERSON, UNDER ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO SIGN ANY DRAWING, WITHOUT BEARING THE SEAL OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR. IF ANY OTHER BEARING THE SEAL OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR IS UTILIZED, THE SIGNING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE DRAWING THE SIGNATURE, NUMBER OF LICENSE, AND EXPIRATION DATE, AND TO THE DRAWING THE SIGNATURE, NUMBER OF LICENSE, AND EXPIRATION DATE, AND TO THE DRAWING THE SIGNATURE, NUMBER OF LICENSE, AND EXPIRATION DATE, AND TO THE DRAWING THE SIGNATURE, NUMBER OF LICENSE, AND EXPIRATION DATE.

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DRAWING TITLE:  
**GRADING & UTILITY PLAN**

4 of 6  
SHEET No: **C3.0**  
1436-22  
JOB No: DRAWING No:

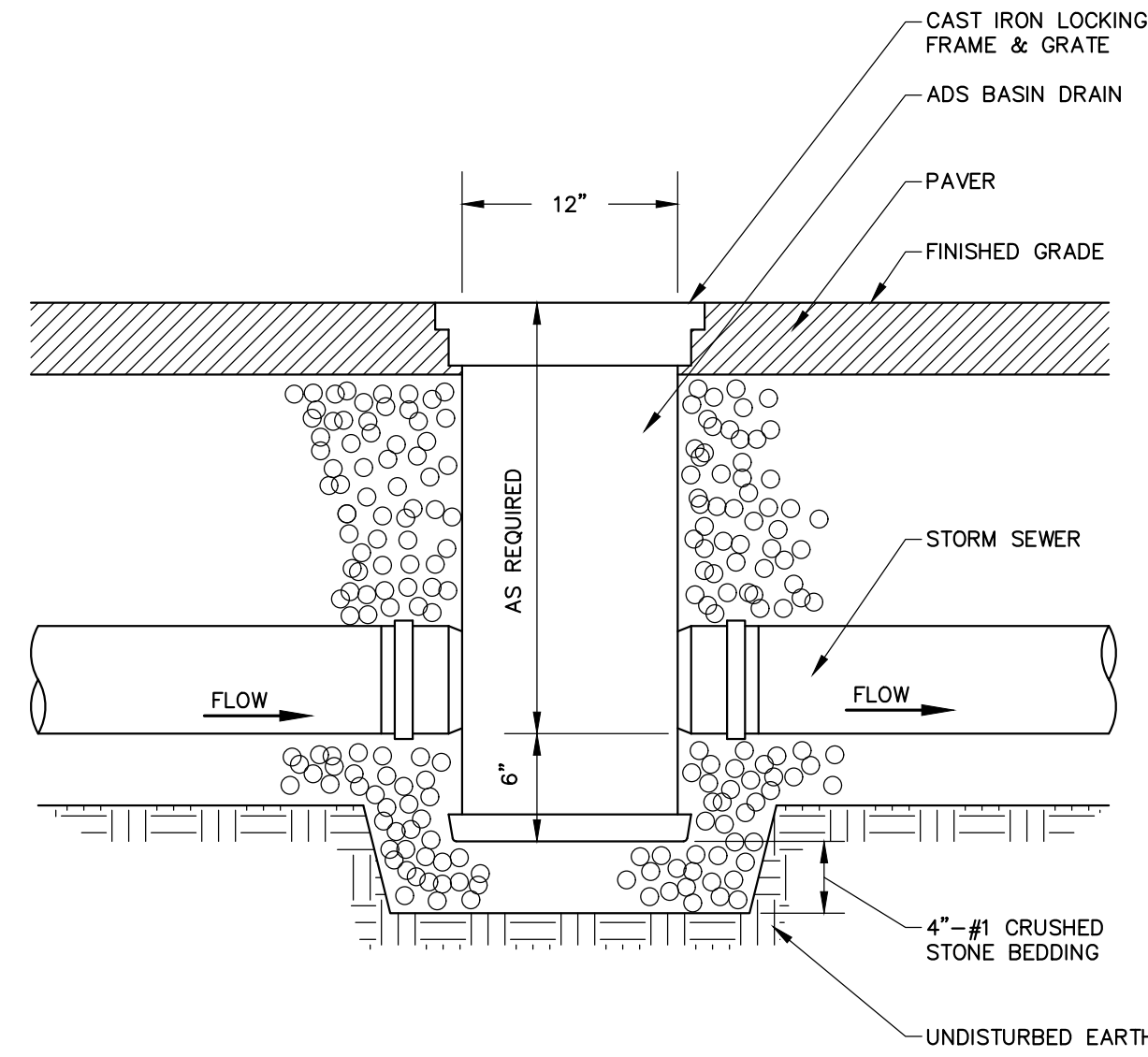
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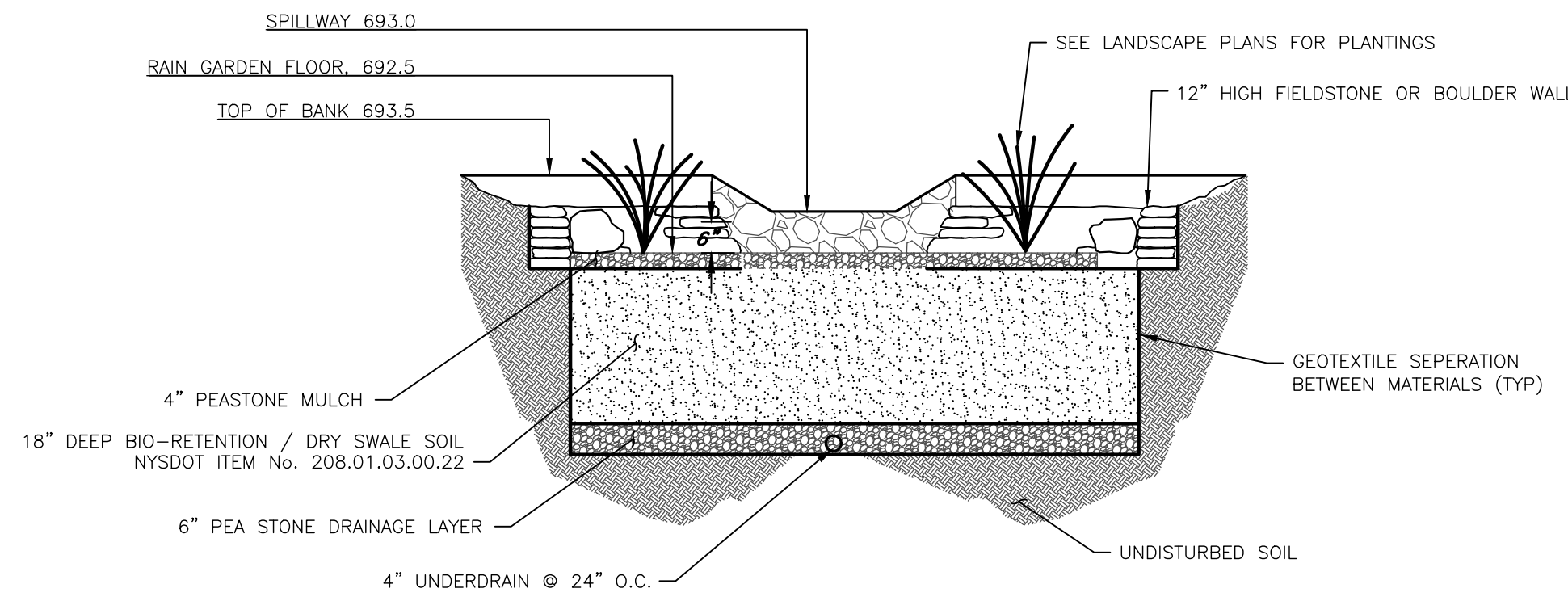
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APPROVED BY:
PLANNING BOARD CHAIRPERSON
DATE:
APPROVED BY:
TOWN ENGINEER
DATE:
APPROVED BY:
TOWN WATER SUPERINTENDANT
DATE:



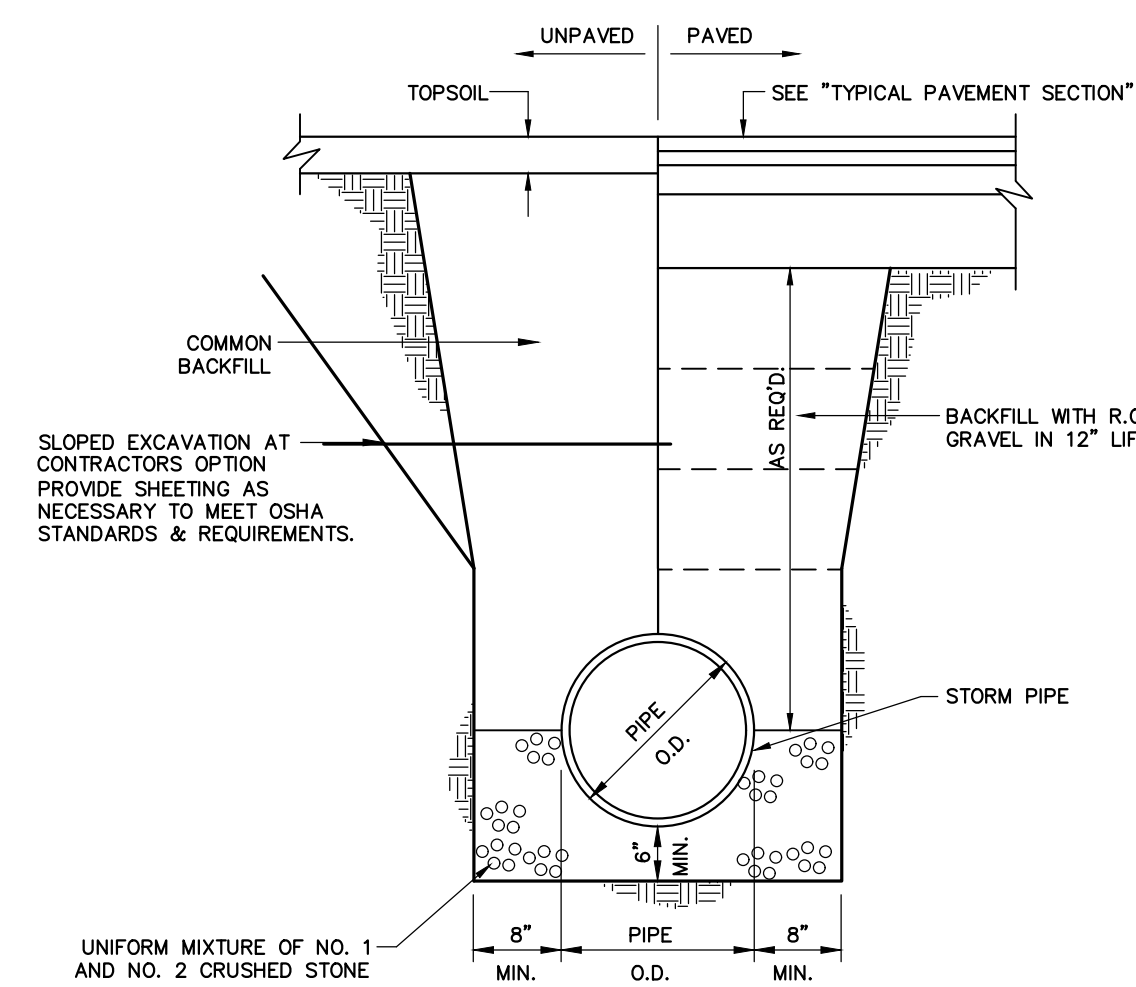
**1 YARD INLET**  
NOT TO SCALE



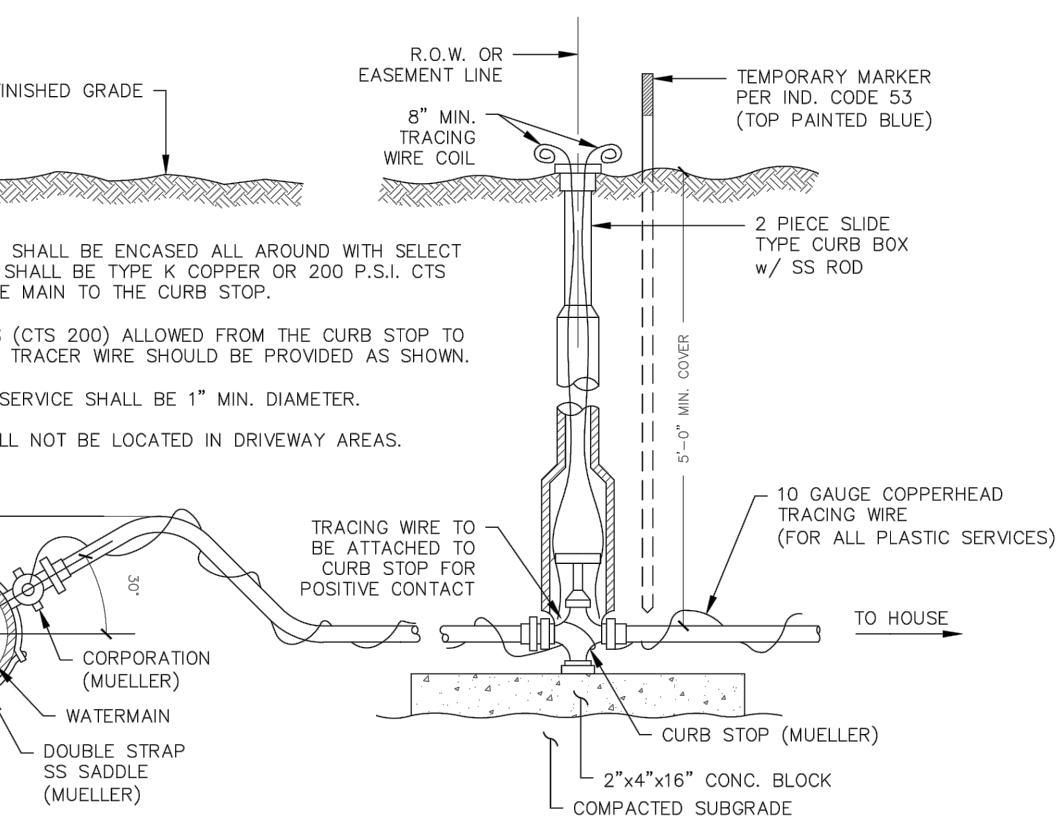
**2 RAIN GARDEN**  
NOT TO SCALE

**LEGEND:**

EXISTING	PROPOSED	DESCRIPTION
		SIGN
		LIGHT POLE
		POWER POLE
		ELECTRIC CONDUIT & STRUCTURE
		RIGHT-OF-WAY OR PROPERTY LINE
		CURB
		FENCE (DESCRIPTION)
		STORM SEWER, MANHOLE & FIELD/DROP INLET
		WATER MAIN WITH HYDRANT & GATE VALVE
		CENTERLINE OF SWALE
		TREE LINE



**3 STORM TRENCH SOLID PIPE**  
NOT TO SCALE



**4 TYPICAL WATER SERVICE**  
NOT TO SCALE

**NEW STORM SYSTEM**  
ALL 12" HDPE PIPE @ 0.5% MIN SLOPE  
WITH NYLOPLAST YARD DRAIN STRUCTURES.  
BEGIN @ TRENCH DRAIN AND DISCHARGE  
TO RAIN GARDEN

**NEW 1" PE WATER SERVICE W/ TRACER WIRE**  
CONNECT TAP INTO EXISTING MAIN AND PROVIDE CURB  
STOP AT PROPERTY LINE. NEW METER SHALL BE  
PURCHASED FROM THE TOWN AND INSTALLED INSIDE  
THE PROPOSED HOME.

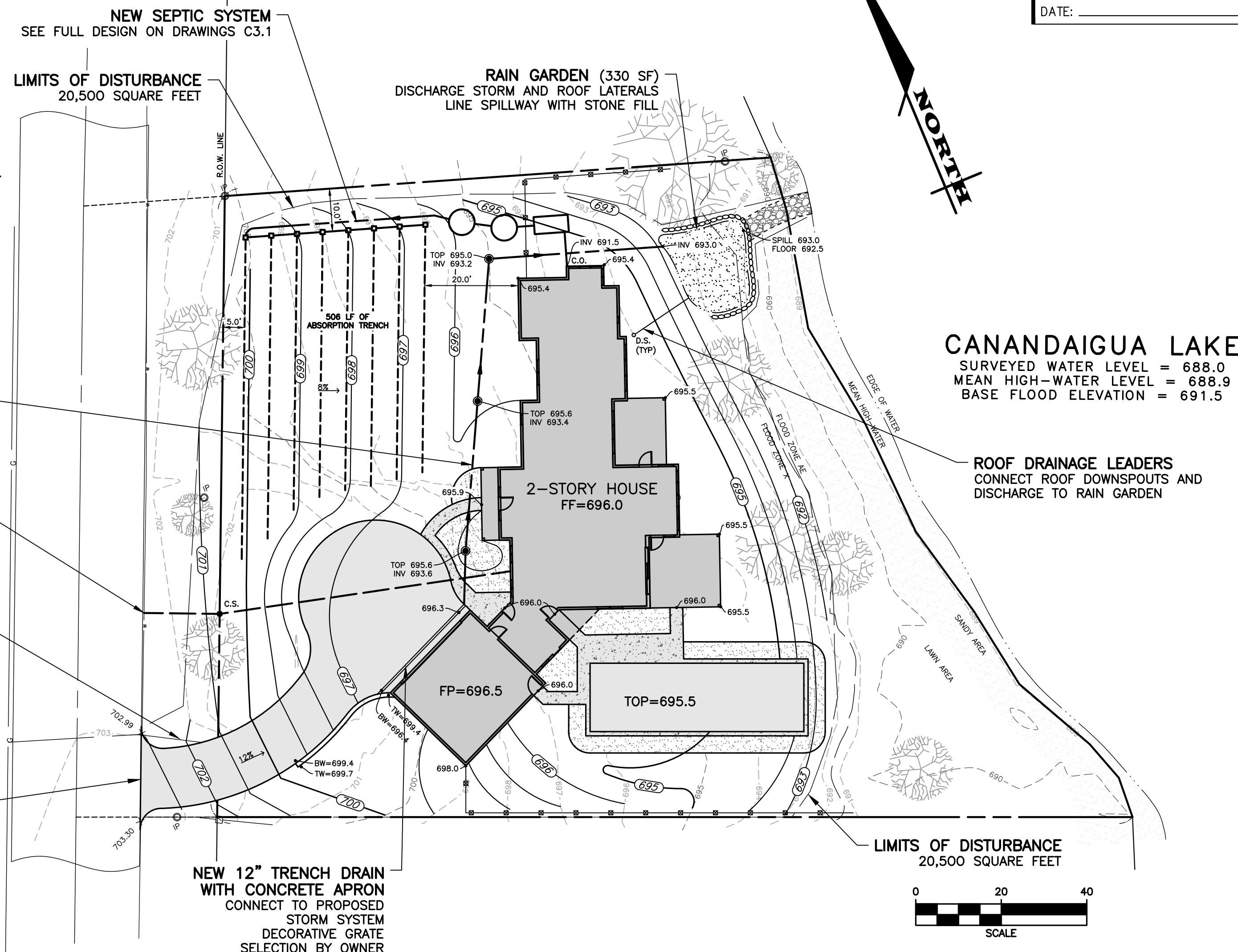
**INSTALL NEW GAS AND  
UNDERGROUND ELECTRIC  
SERVICES. COORDINATE  
WITH NYSEG AND RGE.**

**CONNECT NEW DRIVEWAY TO ROAD  
AT EXISTING DRIVEWAY LOCATION  
MATCH TO EXISTING PAVEMENT ELEVATION**

Sight Distance Table (Posted: 30MPH, Design: 40MPH)			
Sight Criteria	Required	Available Left	Available Right
Stopping Sight Distance	305	400	700

\* SUFFICIENT SIGHT DISTANCE IS AVAILABLE IN EACH DIRECTION

COUNTY ROAD 16  
(R.O.W. WIDTH VARIES)



File: z:\engineering\Job\_files\1436-22 Drawings\Sheets\C3.1.dwg, Last saved: 6/30/2022, Plot Date: 7/27/2022, By: LUCAS BUGHEN, Plot Style: MARATHON STANDARD.CTB

## SEPTIC SYSTEM INVERT ELEVATIONS

INVERT AT HOUSE	SOLIDS SEPARATOR		ETU (MULTIFLO)		PUMP TANK	DROP BOX			LEACH LINE				
	IN	OUT	IN	OUT		IN	DESIGNATION	IN	OUT	DESIGNATION	LENGTH	START	END
	691.3	691.05	690.9	690.65		690.5							
691.5						A	699.2	698.9	1	75	698.73	698.47	
						B	698.7	698.4	2	70	698.22	697.98	
						C	698.2	697.9	3	64	697.71	697.49	
						D	697.6	697.3	4	61	697.11	696.89	
						E	697.1	696.8	5	60	696.60	696.40	
						F	696.5	696.2	5	60	696.00	695.80	
						G	696.0	695.7	5	59	695.50	695.30	
						H	695.4	695.1	6	57	694.90	694.70	

DOSEING VOLUME	DIAMETER (INCH)	LENGTH (ft)	VOL/FT	VOLUME
FORCE MAIN	1.5	49	0.0918	4,498.2 GAL
LEACH LINES	4	506	0.653	330,418 GAL
			80% LEACHLINE VOLUME	264.3 GAL
			TOTAL DOSEING VOLUME	268.8 GAL
			USE	269 GAL

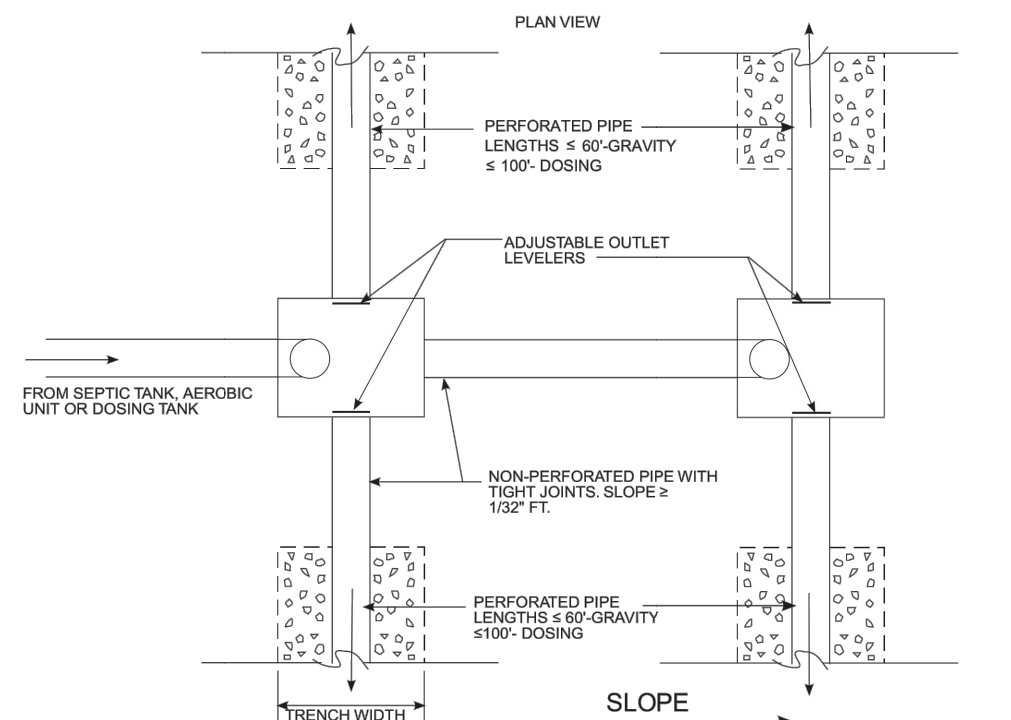
### PUMP HEAD CALCULATIONS

STATIC HEAD (MAX) = 7.7 feet

FITTINGS	QTY.	EQ. PIPE LENGTH
90's	1	4
45's	2	4.2
PIPE LENGTH (1.5"D)	49	49
CHECK VALVES	1	12
TOTAL EQ. PIPE LENGTH		0 feet

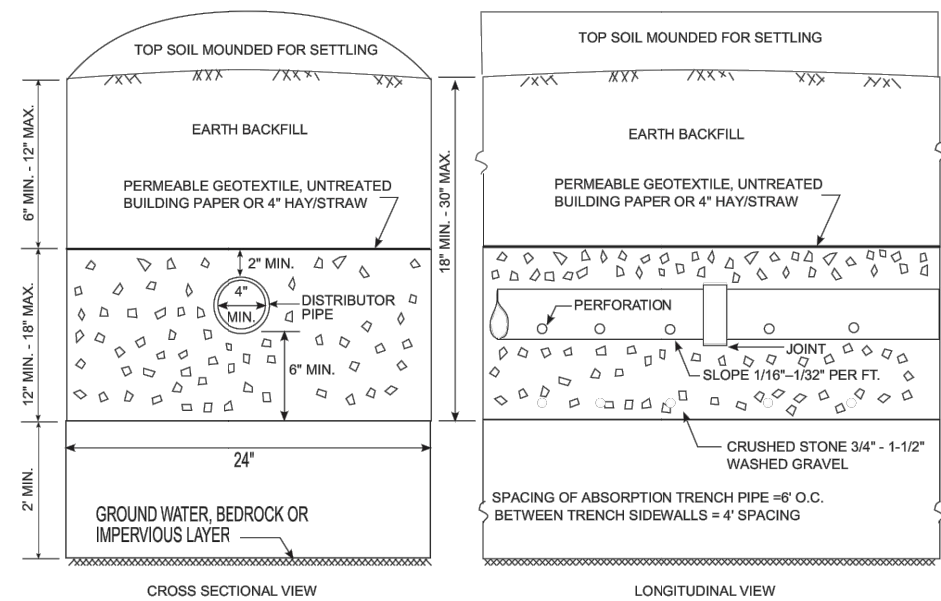
### TOTAL HEAD:

@ 10 gpm = 7.7  
@ 20 gpm = 7.7  
@ 40 gpm = 7.7



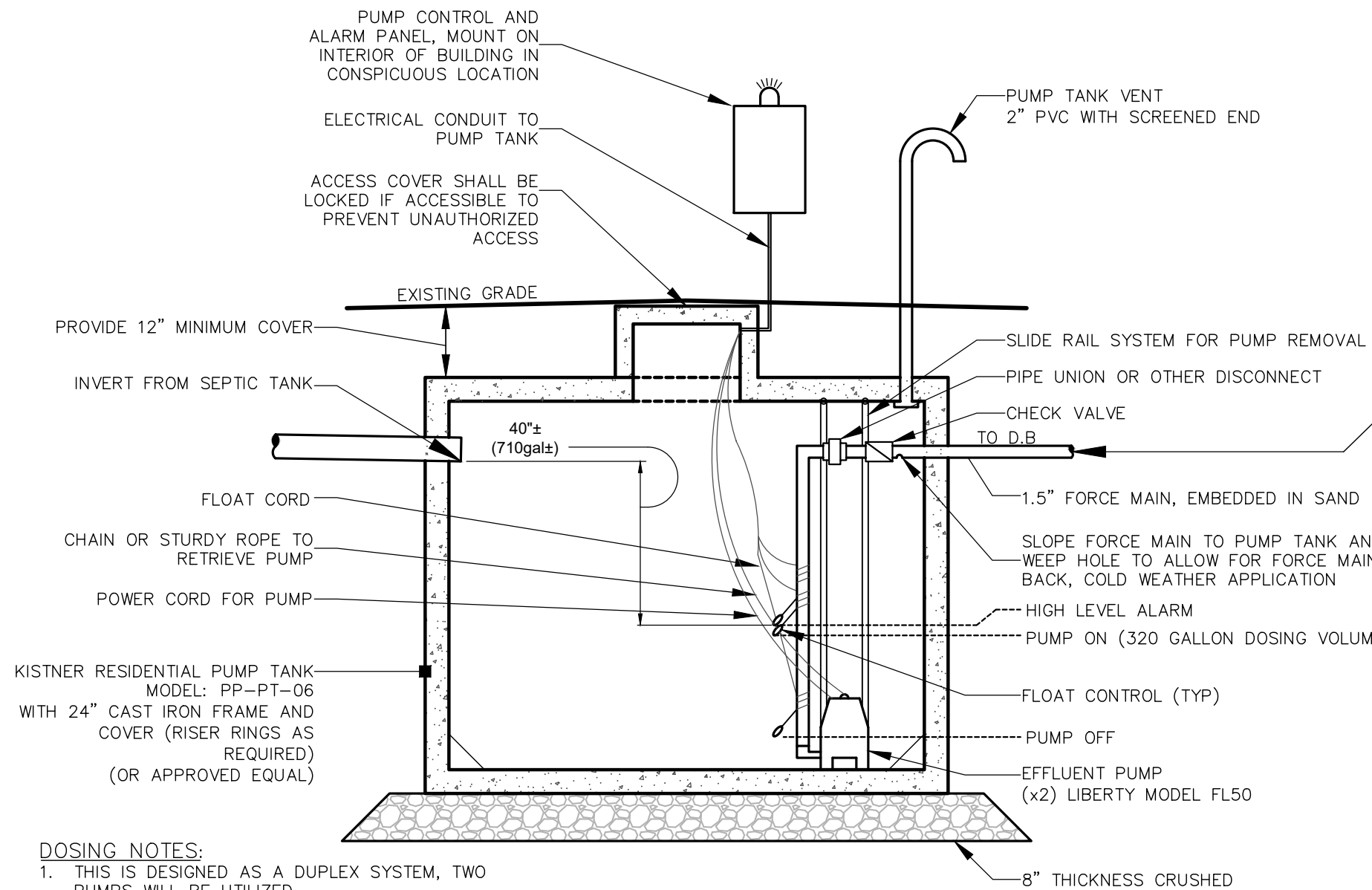
Notes:  
1. Buffers at the inlet end of the manhole and approximately four(4) inches from the riser are required in drop manholes.  
2. The inverts of all outlets in each manhole shall be at the same level.  
3. Maximize trench length along contour to minimize consecutive bends.

## 2 DROP BOX DETAIL NOT TO SCALE



Notes:  
1. Do not install trenches in wet soil.  
2. Install trenches parallel to contours.  
3. Install trenches as shallow as possible which meet above noted minimum depths.  
4. Backfill sides and bottom of trenches prior to placing gravel.  
5. Ends of all distributor pipes must be capped.  
6. Absorption trench spacing 48" o.c. at least between trench sidewalls.  
7. Maximum depth of trenches is 30 inches.

## 3 ABSORPTION TRENCH DETAIL NOT TO SCALE



## 4 PUMP TANK DETAIL NOT TO SCALE

NOTE:  
FLOAT ELEVATIONS ARE BASED UPON KISTNER PP-PT-06 RESIDENTIAL PUMP TANK. SELECTION OF ALTERNATE TANK WILL REQUIRE AN ADJUSTMENT IN FLOAT ELEVATIONS.

## SEPTIC SYSTEM DESIGN INFORMATION

### NOTES:

#### NYSDOH

- SYSTEMS IS DESIGNED TO CONFORM TO THE NEW YORK STATE DEPARTMENT OF PUBLIC HEALTH STANDARDS.
- THE CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM SHALL BE INSPECTED AND CERTIFIED BY THE DESIGN ENGINEER.
- RISERS MUST BE USED IF THE TANK IS BURIED DEEPER THAN 12".
- IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS BEEN TEMPORARILY OR PERMANENTLY CEASED, TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES SHALL BE INSTALLED AND/OR IMPLEMENTED WITHIN SEVEN (7) DAYS FROM THE DATE THE SOIL DISTURBANCE ACTIVITY CEASED. THE SOIL STABILIZATION MEASURES SELECTED SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE TECHNICAL STANDARD, NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- THE PROPOSED ABSORPTION FIELD AREA SHOULD BE STAKED OUT TO PREVENT ENTRY OF VEHICLES AND MATERIALS. IF THIS AREA IS TO BE DISTURBED, NEW PERCOLATION TESTS MAY BE REQUIRED AND SEPTIC SYSTEM APPROVAL MAY BE REVOKED.
- TIGHT JOINTS MUST BE USED FOR SEPTIC TANK INFLUENT AND EFFLUENT PIPE.
- NON-WASTEWATER FLOWS (I.E. SUMP, ROOF DRAINS, ETC.) SHOULD NOT BE ADDED TO THE SYSTEM.
- FILL MATERIAL IN THE LEACH FIELD SHALL HAVE A PERCOLATION RATE SIMILAR TO THE IN-SITU SOILS (40MPH).
- ALL TANKS, ETUs AND SYSTEM COMPONENTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INSTALLED TO ACCOUNT FOR HIGH GROUND WATER CONDITIONS THAT ARE PRESENT ON SITE.

### GENERAL

- DUE TO SITE CONSTRAINTS, THERE IS NO ADEQUATE SPACE FOR A 50% EXPANSION AREA. THE OWNER AGREES TO AND IS AWARE THAT SHOULD THE SYSTEM FAIL OR REACH END OF USEFUL LIFE, THE SYSTEM WILL BE REPLACED IN TOTAL. PLANS SHALL BE SUBMITTED AND APPROVED BY THE NYSDOH PRIOR TO REPLACEMENT.
- FLOW LEVELERS TO BE USED. CONTRACTOR TO SELECT APPROPRIATELY SIZED DISTRIBUTION BOX TO PREVENT LID BLOW OFF. CONTACT DESIGN ENGINEER WITH QUESTIONS.
- CAP ENDS OF ALL DISTRIBUTION LINE.

### MULTI-FLOW ETU

- ETU TANK MUST CONFORM TO NSF STANDARD 40 CLASS 1" STANDARDS.
- PROOF OF A SERVICE CONTRACT MUST BE PROVIDED TO THE NYSDOH PRIOR TO FINAL ACCEPTANCE.
- THE ETU TANK MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- A VISUAL AND AUDIBLE ALARM MUST BE LOCATED IN A CONSPICUOUS PLACE. THIS ALARM SYSTEM IS SEPARATE FROM THE PUMP TANK ALARM/CONTROL PANEL.

### FILL MATERIAL

- IF MECHANICAL COMPACTION IS TO BE UTILIZED, THE FILL MATERIAL USED SHALL BE SAND OR SANDY LOAM OR: THE FILL MATERIAL MUST BE PLACED AND ALLOWED TO SETTLE NATURALLY AND MUST INCLUDE A COMPLETE FREEZE/THAW CYCLE.
- THE FILL MATERIAL SHALL HAVE A PERCOLATION SIMILAR TO THE IN-SITU SOILS (40MPH).
- THE FILL MATERIALS SHALL BE TESTED AT THE BORROW SITE AND AFTER PLACED IN FIELD (AND PRIOR TO INSTALLATION OF THE ABSORPTION TRENCHES) TO VERIFY THE PERCOLATION RATE.

### FIELD TESTS

PERCOLATION TESTS <sup>(1)</sup>		
Hole Designation	Stabilized Rate (Min.)	DEPTH (in.)
INF-1	40	24
INF-2	20	24
INF-3	25	24
INF-4	10	24

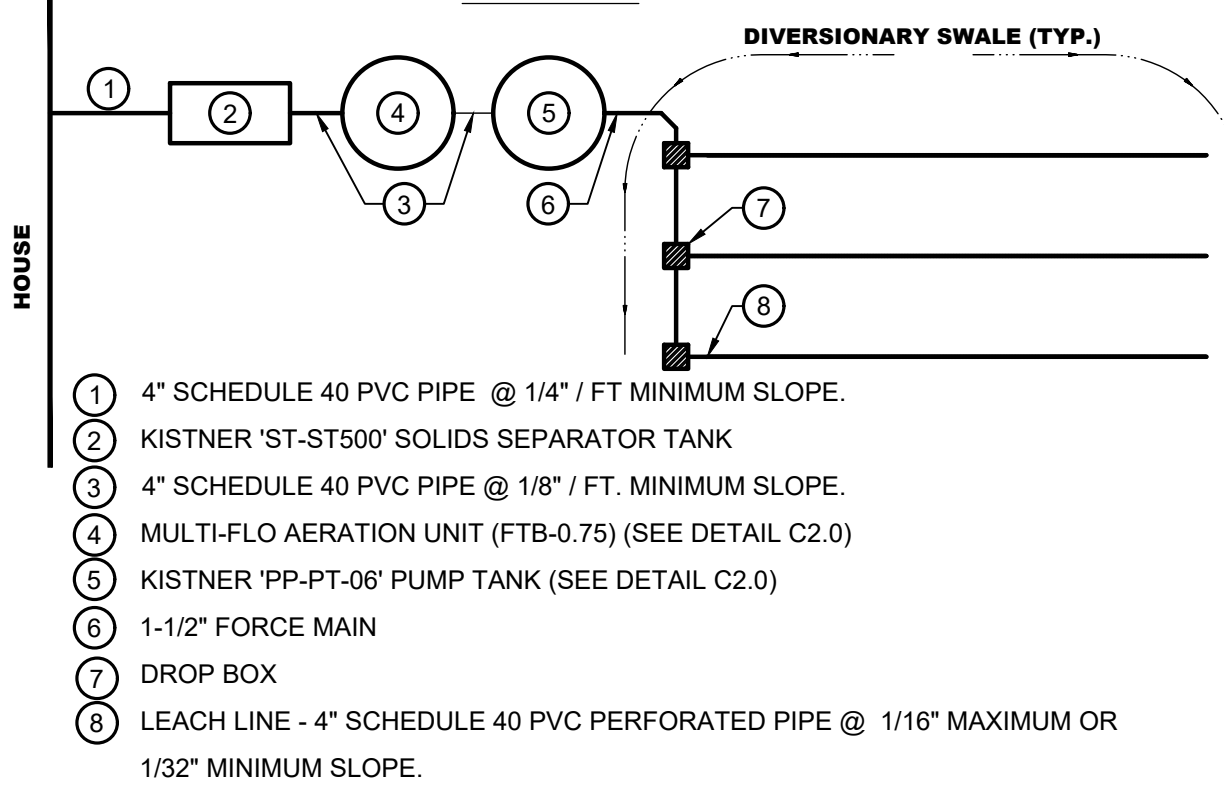
DEEP HOLE RESULT <sup>(2)</sup>	
Depth (in.)	Description
0"-10"	TOPSOIL
10"-22"	LOAM WITH SOME SILT & SOME ROCK FRAGMENTS
22"-48"	CLAY
	NO BEDROCK, NO MINERALS, NO WATER

- COMPLETED BY MARATHON ENGINEERING ON 6/2/2022 AND 6/10/2022.
- COMPLETED BY MARATHON ENGINEERING ON 6/28/2022.

### COMPONENTS AND SOLUTIONS

SYSTEM COMPONENT OR CRITERIA	QUANTITY
NUMBER OF EQUIVALENT BEDROOMS 4-BEDROOM HOME, BUT SEPTIC IS SIZED FOR A 5-BED BASED ON THE OCCURABLE LIVING SPACE THRESHOLDS LISTED IN CHAPTER 202, SECTION 6.0.3(e) OF THE CANANDAIGUA CODE	5 BEDROOMS
DESIGN FLOW RATE: 150gpd/BEDROOM	750 GPD
500 GAL SOLIDS SEPARATOR (INC. TO ALLOW FOR GARBAGE GRINDER)	KISTNER ST500 (OAE)
ENHANCED TREATMENT UNIT	MULTI-FLO FTB 0.75 750 GPD CAPACITY
KISTNER PUMP TANK PP-PT-06 (OAE)	
2x LIBERTY FL50 EFFLUENT PUMP	
NEMA 4X DUPLEX CONTROL PANEL WITH 3 FLOAT SWITCHES AND AUDIO/VISUAL ALARM LOCATED IN CONSPICUOUS AREA	
ABSORPTION TRENCH SYSTEM (33% LEACH LINE LENGTH REDUCTION WITH USE OF ENHANCED TREATMENT UNIT)	506 FEET TOTAL LEACH LINE LENGTH PROVIDED
PERC RATE = 40 MIN/INCH	
TOTAL LEACH LINE LENGTH (TABLE 6E) REQUIRED = 503'	
SLOPE OF SITE = 8%± TRENCH OFFSET = 6'	
DROP BOXES REQUIRED DUE TO SLOPE OF SITE	0

### LEGEND



### APPROVED BY:

PLANNING BOARD CHAIRPERSON  
DATE: \_\_\_\_\_

### APPROVED BY:

TOWN ENGINEER  
DATE: \_\_\_\_\_

### APPROVED BY:

TOWN WATER SUPERINTENDANT  
DATE: \_\_\_\_\_

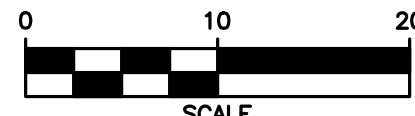
PROPOSED SEPTIC SYSTEM  
PROTECT DURING CONSTRUCTION  
CONVENTIONAL SYSTEM  
506 LF OF ABSORPTION TRENCH  
SIZED FOR 5-BEDS WITH ETU

WEST LAKE ROAD  
COUNTY ROAD 16

BASEMENT FILL AREA  
REMOVE EXISTING BASEMENT AND  
FILL WITH ONSITE MATERIAL FROM  
IDENTIFIED BORROW AREA.  
FILL IN 18" LIFTS AND COMPACT  
WITH WALK BEHIND TAMPER.  
SEE FILL NOTES ON THIS SHEET.  
APPROX SIZE 26'x20'x6'

SOIL BORROW AREA  
UTILIZE EXISTING SEPTIC FIELD  
FOR FILLING BASEMENT WITHIN  
PROPOSED SEPTIC AREA

## 1 SEPTIC SYSTEM PLAN SCALE: 1"=10'



**MARATHON ENGINEERING**  
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ITHACA LOCATION  
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ITHACA, NY 14850  
607-241-2917  
www.marathoneng.com

# PRELIMINARY/FINAL SITE PLANS for BURKE-SHEPARD RESIDENCE

STATE OF NEW YORK  
TOWN OF CANANDAIGUA  
5007 & 5009 COUNTY ROAD 16  
ONTARIO COUNTY

JOB NO: 1436-22  
SCALE: AS SHOWN  
DRAWN: LJB  
DESIGNED: RPB  
DATE: 7/1/22

### REVISIONS

DATE	BY	REVISION
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IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 14, SECTION 2703 FOR ANY PERSON, UNDER ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO USE ANY SEAL, INSTRUMENT OR SIGN OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR, IF AN OTHER BEARING THE SEAL OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR IS UTILIZED, THE VIOLATION OF ARTICLE 14, SECTION 2703 SHALL BE A VIOLATION OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR ACT, AND THE VIOLATION SHALL BE PUNISHED BY THE STATE EDUCATION BOARD, AND A FINE OF UP TO \$500 MAY BE IMPOSED FOR EACH VIOLATION, AND A FINE OF UP TO \$500 MAY BE IMPOSED FOR EACH VIOLATION, AND A FINE OF UP TO \$500 MAY BE IMPOSED FOR EACH VIOLATION.

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### DRAWING TITLE: SEPTIC SYSTEM DESIGN PLAN

5 of 6  
SHEET No: C3.1  
1436-22  
JOB No: DRAWING No:

