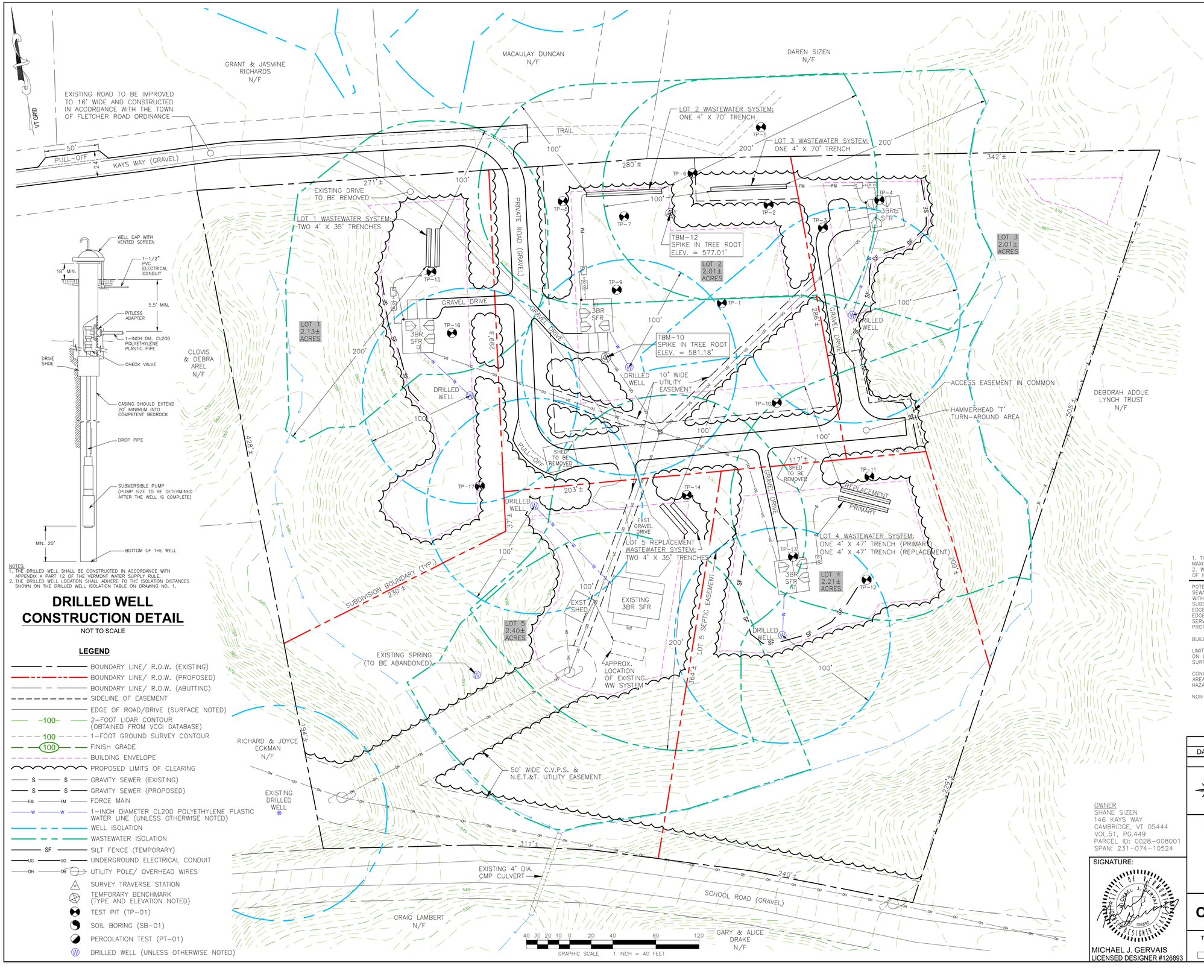

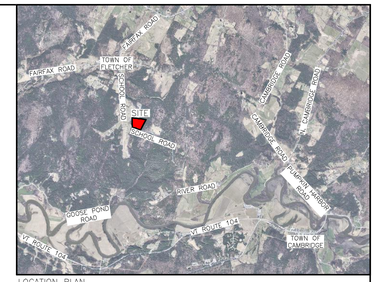

NOTES:
1. THE DRILLED WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPENDIX A PART 12 OF THE VERMONT WATER SUPPLY RULE.
2. THE DRILLED WELL LOCATION SHALL ADHERE TO THE ISOLATION DISTANCES SHOWN ON THE DRILLED WELL ISOLATION TABLE ON DRAWING NO. 1.

DRILLED WELL CONSTRUCTION DETAIL

NOT TO SCALE

LEGEND

- BOUNDARY LINE/ R.O.W. (EXISTING)
- BOUNDARY LINE/ R.O.W. (PROPOSED)
- BOUNDARY LINE/ R.O.W. (ABUTTING)
- SIDELINE OF EASEMENT
- EDGE OF ROAD/DRIVE (SURFACE NOTED)
- 100 2-FOOT LIDAR CONTOUR (OBTAINED FROM VCGI DATABASE)
- 100 1-FOOT GROUND SURVEY CONTOUR
- 100 FINISH GRADE
- BUILDING ENVELOPE
- PROPOSED LIMITS OF CLEARING
- S GRAVITY SEWER (EXISTING)
- S GRAVITY SEWER (PROPOSED)
- FM FORCE MAIN
- W 1-INCH DIAMETER CL200 POLYETHYLENE PLASTIC WATER LINE (UNLESS OTHERWISE NOTED)
- WELL ISOLATION
- WASTEWATER ISOLATION
- SF SILT FENCE (TEMPORARY)
- UG UNDERGROUND ELECTRICAL CONDUIT
- OH UTILITY POLE/ OVERHEAD WIRES
- SURVEY TRAVERSE STATION
- TEMPORARY BENCHMARK (TYPE AND ELEVATION NOTED)
- TEST PIT (TP-01)
- SOIL BORING (SB-01)
- PERCOLATION TEST (PT-01)
- DRILLED WELL (UNLESS OTHERWISE NOTED)

PROJECT NOTES:

1. THIS IS NOT A BOUNDARY SURVEY. PROJECT PERIMETER LINES ARE BASED ON A PLAN ENTITLED "LANDS OF SHANE SIZEN, 146 KAYS WAY, FLETCHER, VERMONT, FIVE LOT SUBDIVISION SURVEY PLAT" BY BARNARD & GERVAIS LLC., DATED 12-02-2019.

2. THE LOCATION OF EXISTING PHYSICAL FEATURES ON THIS PLAN ARE BASED ON A TOPOGRAPHIC SURVEY COMPLETED BY BARNARD & GERVAIS, LLC. IN APRIL 2019.

3. THE ELEVATIONS ON THIS PLAN ARE BASED ON NAVD88 (GEOID12B) ESTABLISHED FROM SURVEY GRADE GNSS READINGS COLLECTED WITH A (LEICA GS16 GPS RECEIVER ON RANDOM CONTROL POINTS USING REAL TIME KINEMATICS (RTK) WITH CORRECTIONS FROM THE NEAREST OPERATIONAL CORS STATION. OTHER ELEVATIONS ON THIS PLAN ARE BASED OFF LIDAR INFORMATION FROM THE STATE OF VERMONT VCGI OPEN DATA PORTAL DATABASE.

4. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL HEALTH AND SAFETY ASPECTS ASSOCIATED WITH THIS PROJECT.

5. NO ATTEMPT HAS BEEN MADE TO LOCATE ANY UNDERGROUND UTILITIES BY BARNARD & GERVAIS, LLC. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING DIG SAFE TO HAVE ANY UNDERGROUND UTILITIES MARKED PRIOR TO ANY EXCAVATION OR SITE WORK.

6. THIS WASTEWATER DISPOSAL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, "WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES" EFFECTIVE APRIL 12, 2019.

7. NO WETLANDS WERE SHOWN ON THE SUBJECT PARCEL ON THE "VERMONT NATURAL RESOURCES ATLAS" AND NO OTHER WETLAND DELINEATION OF SAID PARCEL HAD BEEN CONDUCTED OF WHICH BARNARD & GERVAIS, LLC. IS AWARE. BARNARD & GERVAIS, LLC. MAKES NO WARRANTIES THAT WETLANDS OR ASSOCIATED BUFFERS DO OR DO NOT EXIST ON SAID PARCEL. BARNARD & GERVAIS, LLC. DOES NOT CLAIM TO BE WETLAND ECOLOGISTS AND DOES NOT HAVE A WETLAND ECOLOGIST OR SPECIALIST ON STAFF. IT IS RECOMMENDED THAT THE LAND OWNER OR CONTRACTOR CONTACT A WETLAND SPECIALIST TO CONFIRM NO WETLANDS EXIST PRIOR TO ANY EARTH WORK OR CONSTRUCTION.

8. THE PROPOSED HOUSE LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. ALL RESIDENTIAL STRUCTURES AND APPURTENANT OUTBUILDINGS SHALL BE LOCATED WITHIN THE BUILDING ENVELOPES SHOWN HEREON AND SHALL BE DETERMINED BY THE LANDOWNER(S).

9. THE PROPOSED DRILLED WELL SITES SHOWN HEREON ARE BASED ON THE REQUIRED ISOLATION DISTANCES TO THE PROPOSED WASTEWATER DISPOSAL SYSTEMS AND THE ASSOCIATED SYSTEM COMPONENTS. BARNARD & GERVAIS, LLC MAKES NO WARRANTY REGARDING THE WELL YIELD OR WATER QUALITY RELATIVE TO THE DRILLED WELL LOCATIONS SHOWN HEREON.

10. AS SHOWN, THE PROJECT CONTAINS 21,100± SF OF IMPERVIOUS SURFACE AREA.

11. ALL OUTDOOR LIGHTING SHALL COMPLY WITH THE TOWN OF FLETCHER DEVELOPMENT REGULATIONS SECTION 5.9 OUTDOOR LIGHTING.

12. SILT FENCES SHALL BE INSTALLED AS SHOWN ON LOTS 1, 3 & 4 PRIOR TO CONSTRUCTION; SEE DETAIL ON SHEET 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE ON A WEEKLY BASIS AND PRIOR TO EACH PREDICTED RAINFALL EVENT.

DRILLED WELL REQUIRED MINIMUM ISOLATION DISTANCES

1. THESE DISTANCES APPLY TO DRILLED WELLS SERVING A SINGLE-FAMILY RESIDENCE, WITH A MAXIMUM DAILY DEMAND OF LESS THAN 1,9 GPM.
2. WELL LOCATION AND CONSTRUCTION MUST COMPLY WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, WATER SUPPLY RULE, CHAPTER 21.

POTENTIAL SOURCE OF CONTAMINATION	SEPARATION DISTANCE
SEWAGE DISPOSAL FIELD	200 FEET IF WELL IS DOWNSLOPE
WITH FLOWS <2000 GPD	100 FEET IF WELL IS UPSLOPE
SUBSURFACE WASTEWATER PIPING	50 FEET
EDGE OF ROADWAY OR PARKING LOT	25 FEET
EDGE OF RESIDENTIAL DRIVE SERVING 3 RESIDENCES OR LESS	15 FEET
PROPERTY LINE	10 FEET (50 FEET IF ADJACENT TO CROPLAND)
BUILDINGS	10 FEET
LIMIT OF HERBICIDE APPLICATION ON UTILITY RIGHT-OF-WAY	200 FEET
SURFACE WATER	10 FEET
CONCENTRATED LIVESTOCK HOLDING AREAS AND MANURE STORAGE	200 FEET
HAZARDOUS OR SOLID WASTE DISPOSAL SITE	CONTACT DESIGNER
NON-SEWAGE WASTEWATER DISPOSAL FIELDS	CONTACT DESIGNER

OWNER
SHANE SIZEN
146 KAYS WAY
CAMBRIDGE, VT 05444
VOL.51, PG.449
PARCEL ID: 0028-008001
SPAN: 231-074-10524

SIGNATURE:

MICHAEL J. GERVAIS
LICENSED DESIGNER #126893

DATE	DESCRIPTION	BY
	REVISIONS	

BARNARD & GERVAIS, LLC
Land Surveying
Water & Wastewater
Environmental Consulting
167 Main Street, P.O.Box 820
Enosburg Falls, VT 05450
Telephone: (802) 933-5168
10523 VT Route 116, P.O.Box 133
Hinesburg, VT 05461
Telephone: (802) 482-2597

PROJECT NO. 19017

FIVE-LOT SUBDIVISION WATER SUPPLY AND WASTEWATER DISPOSAL SYSTEMS DESIGNS

SHANE SIZEN

146 KAYS WAY, FLETCHER, VERMONT

OVERALL SUBDIVISION PLAN

DATE: 12-09-2019
SCALE: 1" = 40'
SURVEY: JG, AP
DRAWN: AP,CV,SB
CHECKED: MJG
DRAWING NO. S-1

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

☐ PRELIMINARY DRAFT ■ FINAL STATE REVIEW