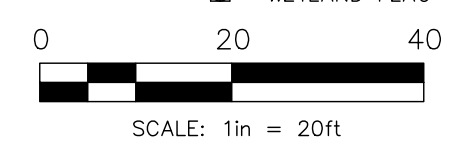


NOTE:
MAGNETIC MARKING TAPE OR AN APPROVED
EQUAL SHALL BE PLACED OVER ALL
COMPONENTS AND PIPES IN THE SYSTEM

LEGEND

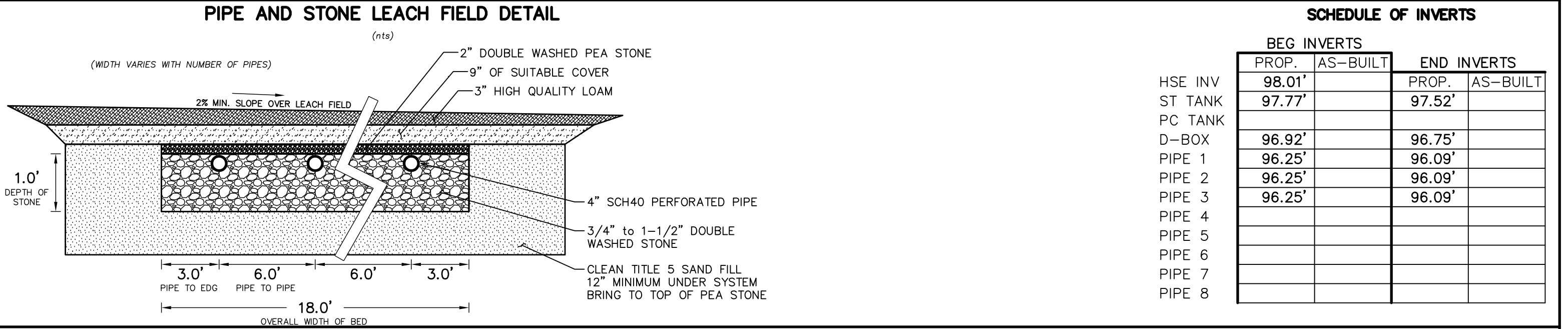
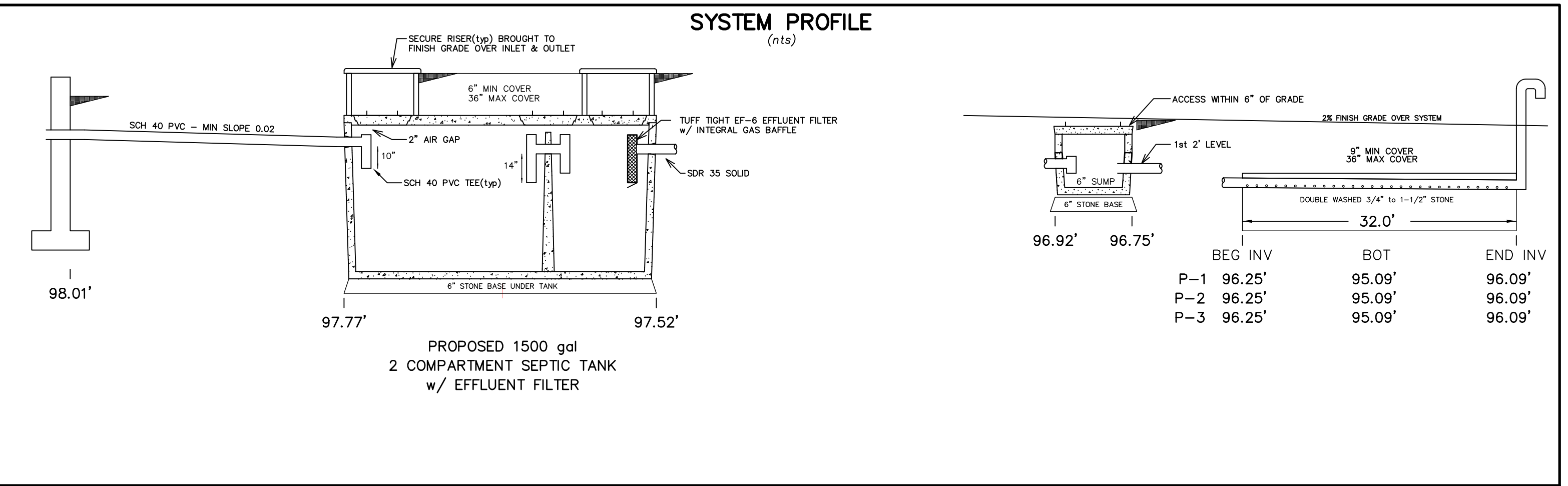
- PROPERTY LINE
- - - EROSION CONTROL
- - - EXISTING CONTOUR
- - - PROPOSED CONTOUR
- WATER LINE
- EDGE OF WETLAND
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- PERC HOLE
- TEST PIT
- CONTROL
- WETLAND FLAG



WETLAND PROTECTION MEASURES:

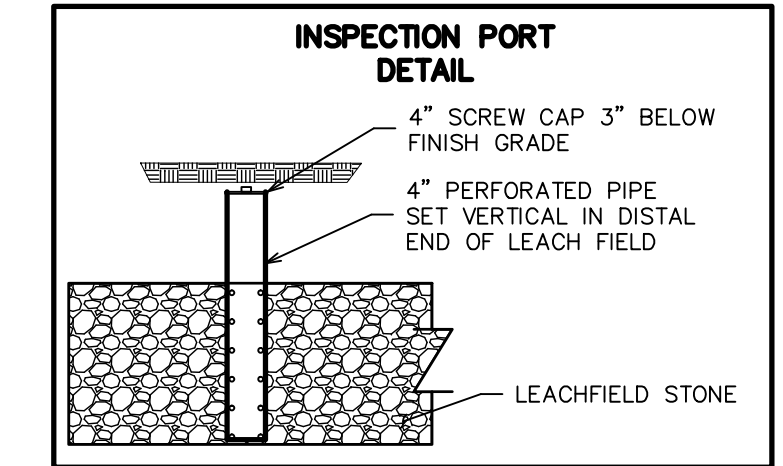
- 1) STAKED STRAW WATTLES SHALL BE INSTALLED AS SHOWN ON THE PLAN. THEY SHALL BE INSPECTED BY THE LOCAL CONSERVATION COMMISSION, IF REQUIRED, BEFORE CONSTRUCTION.
- 2) WITHIN THE 100ft BUFFER ZONE ALL DISTURBING OF SOIL SHALL BE MINIMIZED.
- 3) ALL DISTURBED AREAS SHALL BE LOAMED, SEEDED AND MULCHED AS SOON AS POSSIBLE.
- 4) NO WORK OR STORAGE OF MATERIAL SHALL BE DOWN HILL OF THE STRAW WATTLES.
- 6) ALL NECESSARY PERMITS SHALL BE OBTAINED BEFORE WORK COMMENCES.
- 7) OWNER AND CONTRACTOR SHALL ADHERE TO ANY ORDERS ISSUED BY THE LOCAL CONSERVATION COMMISSION.

LOCUS MAP



SCHEDULE OF INVERTS

| HSE INV | BEG INVERTS | | END INVERTS | |
|---------|-------------|----------|-------------|----------|
| | PROP. | AS-BUILT | PROP. | AS-BUILT |
| ST TANK | 98.01' | | 97.52' | |
| PC TANK | 97.77' | | 96.75' | |
| D-BOX | 96.92' | | 96.75' | |
| PIPE 1 | 96.25' | | 96.09' | |
| PIPE 2 | 96.25' | | 96.09' | |
| PIPE 3 | 96.25' | | 96.09' | |
| PIPE 4 | | | | |
| PIPE 5 | | | | |
| PIPE 6 | | | | |
| PIPE 7 | | | | |
| PIPE 8 | | | | |



DESIGN CALCULATIONS

DESIGN CRITERIA:
SINGLE FAMILY HOME
DESIGN PERC RATE: 10 mpf
LOADING RATE: 0.6 gpd/ft²
DESIGN FLOW:
(3 BEDROOM(s)) (110 gpd/BEDROOM) = 330 gpd
SEPTIC TANK:
1500 gal REQUIRED - 1500 gal 2 COMPARTMENT PROVIDED
SOIL ABSORPTION SYSTEM (SAS):
REQUIRED: (330 gpd) / (0.60 gpd/ft²) = 550 ft²
PROVIDED: PIPE AND STONE BED
1 BED(s) 32 ft L x 18 ft W x 1 ft D
(1) 32 ft x 18 ft = 576 ft²

DESIGNER CERTIFICATIONS

I certify that in June of 1994 I passed the soil evaluator examination by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.
Signature _____ Date _____

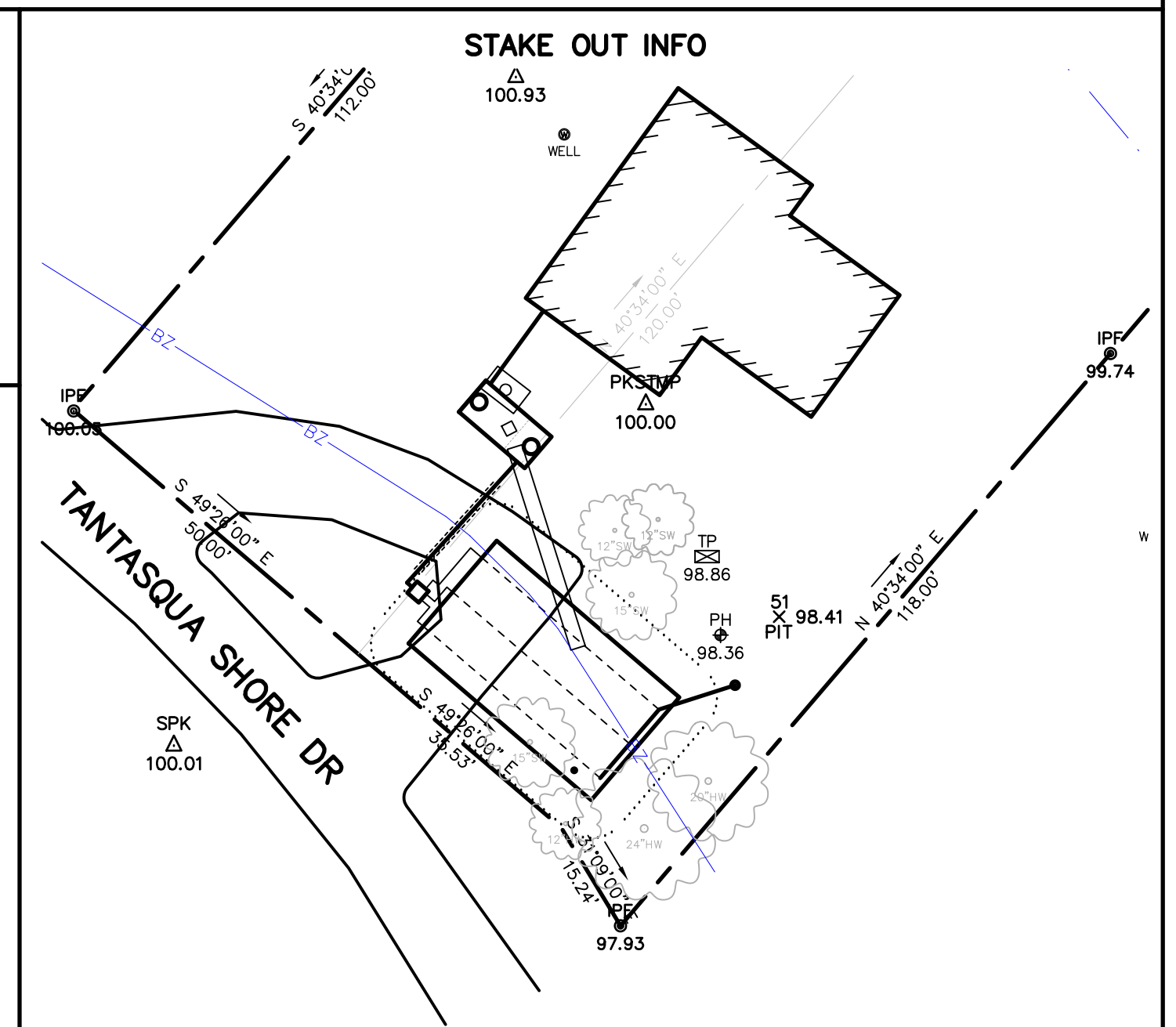
SOIL TESTING RESULTS

DATE OF TEST: 20 DECEMBER 2016
SOIL EVALUATOR: MARK FARRELL
WITNESS: JAMIE TERRY
PERC RATE #1 3 mpf PERC RATE #2
ALTERNATIVE TO THE PERC TEST RESULTS:

SOIL LOGS:
TP1 ELEVATION: 98.86' ESHW ELEVATION: 88.86'
DEPTH HRZ TXT COLOR MOTILE/OTHER
0 - 6 in A SL 10YR 3/2
6 - 30 in BW LS 10YR 6/8
30 - 120 in C S 2.5Y 6/8 NONE @ 120in

GENERAL NOTES

- 1) ALL CONSTRUCTION PRACTICE AND MATERIALS MUST CONFORM TO 310 CMR 15 (TITLE 5) AS REVISED 9 SEPTEMBER 2016 AND/OR LOCAL REGULATIONS.
- 2) CONTRACTOR IS RESPONSIBLE FOR VIEWING SITE BEFORE BIDDING JOB TO BECOME FAMILIAR WITH ALL ASPECTS OF THE JOB.
- 3) CONTRACTOR SHALL VERIFY ALL INVERTS AND SETBACKS FROM WELLS, PROPERTY LINES AND WATER BEFORE BEGINNING WORK.
- 4) IF CONDITIONS IN THE FIELD DIFFER THAN THOSE SHOWN ON THE PLAN, WORK SHALL STOP AND THE DESIGN ENGINEER AND THE BOARD OF HEALTH SHALL BE CONSULTED BEFORE WORK CONTINUES.
- 5) CONTACT DESIGN ENGINEER AND BOARD OF HEALTH REQUIRE BOTTOM INSPECTION BEFORE PLACING SAND OR STONE. CONTACT DESIGN ENGINEER AND BOARD OF HEALTH FOR FINAL INSPECTION BEFORE COVERING SYSTEM.
- 6) THE CONTRACTOR SHALL INSURE ALL NECESSARY PERMITS HAVE BEEN OBTAINED BEFORE INSTALLING THE SYSTEM.
- 8) ALL INTERIOR PLUMBING SHALL BE CONNECTED TO THE PROPOSED DISPOSAL SYSTEM WITH THE EXCEPTION OF WATER FILTRATION BACKWASH.
- 9) NO PERMANENT STRUCTURES SHALL BE PLACED ON THE PROPOSED DISPOSAL SYSTEM.
- 7) PROPERTY LINES ARE GRAPHIC ONLY AND ARE NOT TO BE USED TO ERECT FENCES OR SHEDS. NO PROPERTY SURVEY WAS DONE.



GREEN HILL

ENGINEERING

PERC TESTING SEPTIC DESIGN WETLAND PERMITTING ENVIRONMENTAL CONSULTING

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508-347-9857 (F)

WORKING TO PROTECT OUR WATER RESOURCES

PROPOSED SEPTIC SYSTEM
REPAIR - NO EXPANSION
LOUIS FAZEN & LYNN ECKHERT
18 TANTASQUA SHORE DRIVE
STURBRIDGE, MA
21 FEBRUARY 2018

MAP 1 PARCEL 18
PLOTTED: 2/28/2018 9:51 AM PROJECT: 2016-157