NOTES **SEPTIC SYSTEM DESIGN CALCULATIONS AND NOTES** (1) FIELD TESTS GENERAL **PROJECT STATISTICS** 3. **DEMOLITION** - CLEARING AND GRUBBING SHALL BE LIMITED TO THE SITE BOUNDARIES OR 7. CONSTRUCTION STORAGE - STORAGE OF EQUIPMENT AND MATERIALS SHALL BE WITHIN WITHIN THE "WORK LIMIT LINE" AS DEFINED ON THE PLAN. TREES AND OBJECTS DESIGNATED PERCOLATION TESTS (DEEP HOLE '#2' RESULT (2) A SPECIFIED AND SECURED AREA AS DETERMINED IN CONTRACT DOCUMENTS OR AS SPECIFIED MAPPING - THE EXISTING UNDERGROUND UTILITIES WERE PLOTTED BASED ON RECORD FOR REMOVAL SHALL BE COORDINATED AND FIELD VERIFIED WITH PROJECT ON-SITE BY THE OWNER'S ON-SITE REPRESENTATIVE. Stabilized DEPT 1. GENERAL: Description MAPPING SUPPLIED BY OTHERS. THE ENGINEER MAKES NO WARRANTY AS TO THE LOCATION, REPRESENTATIVE. ALL MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE OR RETURNED Designation | Rate (Min.) | (in.) 1.1 PROPERTY OWNER -STEVEN DAY SIZE, TYPE, ELEVATION, AND/OR NUMBER OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE TO OWNER AS DIRECTED BY CONTRACT DOCUMENTS. ALL ITEMS NOT SPECIFICALLY CALLED 8. PERMIT(S) - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY 9 POINCIANA DRIAVE RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN PERMITS FROM THE APPLICABLE MUNICIPALITY OR AGENCY. THE CONTRACTOR IS OUT TO BE REMOVED SHALL REMAIN. PITTSFORD, NY 14534 THE VICINITY OF THE NEW INFRASTRUCTURE. RESPONSIBLE FOR ALL BONDS AND INSURANCES AND THE OWNER IS RESPONSIBLE FOR PERMIT 8-36" ROOTS TO 18", MODEL CLAY FEES UNLESS OTHERWISE STATED IN THE OWNER/ CONTRACTOR AGREEMENT 4. COORDINATION - THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITY WORK 1.2 PROPERTY ADDRESS - 4841 WEST LAKE ROAD 36-48" | SILT W/ ASHY MATERIAL 2. UTILITY STAKEOUT - THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK WITH OTHER SITE UTILITIES (I.E. GAS, ELECTRIC, LIGHTING, COMMUNICATIONS) TO AVOID CANANDAIGUA, NY 14424 48-56"" SILT W/ ASHY MATERIAL, SOME (1-800-962-7962) FOR A UTILITY STAKEOUT 48 HOURS IN ADVANCE OF COMMENCING WORK. POTENTIAL INSTALLATION CONFLICTS. 9. INTERIM CONDITIONS - THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN POSITIVE STAKEOUT OF PRIVATE UTILITIES SHALL BE COORDINATED WITH THE OWNER. DRAINAGE AWAY FROM BUILDINGS AND WITHIN PROJECT AREA TO A STABILIZED OUTLET CLAY AND 3-6" COBBLES 1.3 TAX ACCOUNT -140.18-1-4.1 5. CLOSE-OUT - THE CONTRACTOR'S WORK SCOPE INCLUDES BUT IS NOT LIMITED TO THE THROUGHOUT THE CONSTRUCTION PERIOD. THIS MAY REQUIRE INTERIM GRADING, SHIMMING NO WATER, BEDROCK OR 3. PROPERTY PROTECTION - THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING OF PAVEMENT ETC. THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS AND SHALL BE THE FOLLOWING AT PROJECT CLOSE-OUT TO THE SATISFACTION OF OWNER'S ON-SITE 2. PARCEL STATISTICS: MINERALS REPRESENTATIVE: PAVEMENT, CURBS, WALKS, LAWNS, TREES, ETC. CAUSED BY THEIR CONSTRUCTION RESPONSIBILITY OF THE CONTRACTOR. (1) COMPLETED BY MARATHON ENGINEERING ON 04/17/2018, (2) COMPLETED BY MARATHON ENGINEERING ON 11/19/18, WITNESSED BY GEORGE BARDEN (CANANDAIGUA OPERATIONS. ALL DAMAGE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE REMOVAL OF ANY CONSTRUCTION DEBRIS. 2.1 AREA -1.09-acres OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE. CLEANING PAVEMENT AND WALKWAY SURFACES. CONSTRUCTION RESTORATION OF ALL DISTURBED GRASS AND LANDSCAPED AREAS. 4. ACCESS - THE CONTRACTOR SHALL PROVIDE SATISFACTORY VEHICULAR ACCESS TO ALL PROVIDING REDLINES FOR RECORD DRAWING. 1. **STAKEOUT** - THE CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY A LICENSED LAND ADJOINING PROPERTIES, PRIVATE ROADWAYS, PARKING FACILITIES, AND PUBLIC STREETS COMPLETION OF FINAL PUNCH LIST ITEMS. (2) REQUIREMENTS & DESIGN SURVEYOR USING CONTROL PROVIDED ON THE "LAYOUT PLAN". DURING CONSTRUCTION. A. FLOW RATE: 150 GALLONS / BEDROOM. DESIGN FOR A 4-BEDROOM HOUSE. 2. BOUNDARY - BOUNDARY INFORMATION WAS TAKEN FROM "MAP OF A SURVEY, LANDS TO BE THE REQUIRED DESIGN FLOW RATE IS 600 GALLONS PER DAY (GPD). 5. **EXCAVATIONS** - ALL EXCAVATIONS SHALL BE BACKFILLED/BARRICADED TO THE CONVEYED BY SHERMAN FARNHAM, JR." PREPARED BY O'NEILL-RODACK LAND SURVEYING SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONCLUSION OF EACH WORKING ASSOCIATES, P.C. DATED 07/16/2008 AND IS SHOWN FOR GRAPHICAL REPRESENTATION ONLY. **B. SOLUTION:** • 1.500 gal SEPTIC TANK (DUAL CHAMBER, POLYPROPYLENE IS ACCEPTABLE 6. MAINTENANCE - PUBLIC STREETS, PRIVATE DRIVES AND PARKING FACILITIES SHALL BE KEPT IF INFILTRATOR OR ROTH BRANDS ARE USED) FREE OF FOREIGN MATERIALS. ALL AREAS SHALL BE SWEPT CLEAN AT THE END OF EACH • KISTNER PUMP TANK (PP-PT-06, OR APPROVED EQUAL) WITH: WORKING DAY AND/OR AS DIRECTED BY THE OWNER'S ON-SITE REPRESENTATIVE. •• 2x LIBERTY 280 EFFLUENT PUMP (CORD LENGTH AS REQ., OR APPROVED EQUAL) •• INDOOR DUPLEX CONTROL (DAYTON MODEL 2PZG7 OR APPROVED EQUAL) PANEL WITH 3 FLOAT SWITCHES AND AUDIO/VISUAL ALARM LOCATED IN CONSPICUOUS AREA • DISTRIBUTION BOX (SITE SLOPE <5%) • PRESBY ENVIROFIN UNITS (4 UNITS REQUIRED. 4 UNITS PROVIDED, 150 GPD CAPACITY EACH) STANDARD DESIGN TABLE QUANTITY NUMBER OF BEDROOMS DESIGN FLOW RATE: Q=(GPD) 600 GPD SEPTIC TANK (INC. TO ALLOW FOR GARBAGE GRINDER) 1.500 BASAL AREA 334sf REQ., 338sf PROV 3 REQ., 4 USED PRESBY ENVIROFIN UNITS • DOSING VOLUME = 50 GALLONS (600 GALLONS/12 DOSES) **INDIVIDUAL WASTEWATER TREATMENT FACILITY NOTES:** . SYSTEMS IS DESIGNED TO CONFORM TO THE NEW YORK STATE DEPARTMENT OF PUBLIC HEALTH STANDARDS. 2. 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" 5. 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. SUMPS, ROOF DRAINS, ETC.) SHOULD NOT BE ADDED TO THE SYSTEM. 9. THIS SYSTEM IS NOT SIZED TO FLOW FROM A SPA-TUB OR MULTI-HEAD 'SURROUND SHOWER' HEAD SYSTEMS OR SIMILAR. 10. 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. 11. ABSORPTION FIELD AREA SHALL BE SEEDED AND MAINTAINED AS LAWN AREA. 12. THE PRESBY SYSTEM SHALL BE INSTALLED BY A PRESBY CERTIFIED INSTALLER. SEPTIC SYSTEM INVERT SCHEDULE DEEP HOLE INV. AT SEPTIC TANK TANK HOUSE IN OUT IN VENT IN ACCORDANCE WITH 752.8 752.5 752.3 MANUFACTURER'S SPECIFICATIONS (10' MIN SEPARATION BETWEEN HIGH AND LOW VENTS) DYNAMIC HEAD PERC TEST LOC. (TYP) OPERATING POINT 0+00-SEPTIC TANK (APPROX. SANITARY LOC.) 170' - 2" PE CLEANOUT FORCEMAIN REPAIR OR REPLACE PAVERS AS REQUIRED **LEGEND** COORDINATE UTILITY CROSSING,-REPORT AND CONFLICTS TO DESIGN ENGINEER. 18" MIN.— VERTICAL SEPARATION **GALLONS PER MINUTE** 1) 4" SCHEDULE 40 PVC PIPE @ 1/4" / FT MINIMUM SLOPE. PUMP SIZING CALCS: 2 1500- gal POLPROPYLENE SEPTIC TANK (2 CHAMBER, ROTH OR INFILTRATOR BRAND ACCEPTABLE) STATIC HEAD - 25' PIPE DIAMETER - 1.5" (C=130) PIPE LENGTH - 170' (3) 4" SCHEDULE 40 PVC PIPE @ 1/8" / FT. MINIMUM SLOPE. 90's - 4 = 4x7.4 = 29.6'CHECK VALVE - 1 = 15x1=15TOTAL EQ. PIPE LENGTH: 170+29.6+15 = 214.6 = 215' (4) KISTNER 'PP-PT-06' PUMP TANK 5) 2" PVC FORCE MAIN @ 5gpm = 25 + 215/100*0.45 = 26.0' @ 20gpm = 25 + 215/100*5.82 = 37.5' 6 DISTRIBUTION BOX WITH VELOCITY REDUCER BAFFLE @ 40gpm = 25 + 215/100*21.02 = 70.2' LOCATE AND REROUTE — STORM LATERAL AS REQUIRED PUMP WILL OPERATE AT 15gpm AND A TDH OF ~33.0' 7) SYSTEM SAND EXTENSION (SEE PUMP CURVE ABOVE) 8 PRESBY ENVIROFIN UNIT

9 FULL DEPTH SYSTEM SAND BED TREATMENT AREA

ENGINEERING

ROCHESTER LOCATION 39 CASCADE DRIVE ROCHESTER, NY 14614 5 8 5 - 4 5 8 - 7 7 7 0 ITHACA LOCATION 840 HANSHAW RD, STE 12 ITHACA, NY 14850 6 0 7 - 2 4 1 - 2 9 1 7

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JOB NO: 0365-18 SCALE: 1" = 10' DRAWN: PBG DESIGNED: DATE: 05/22/2019 **REVISIONS** DATE BY REVISION 12/12/19 PG | REVISED SYSTEM 2/7/2020

PG | OCSWCD COMMENTS DATED 1/31/2020 2/24/2020 PG OCSWCD COMMENTS DATED 2/14/2020

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DRAWING TITLE: SEPTIC PLAN

2 of 3 C1.0 SHEET No: 0365-18

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