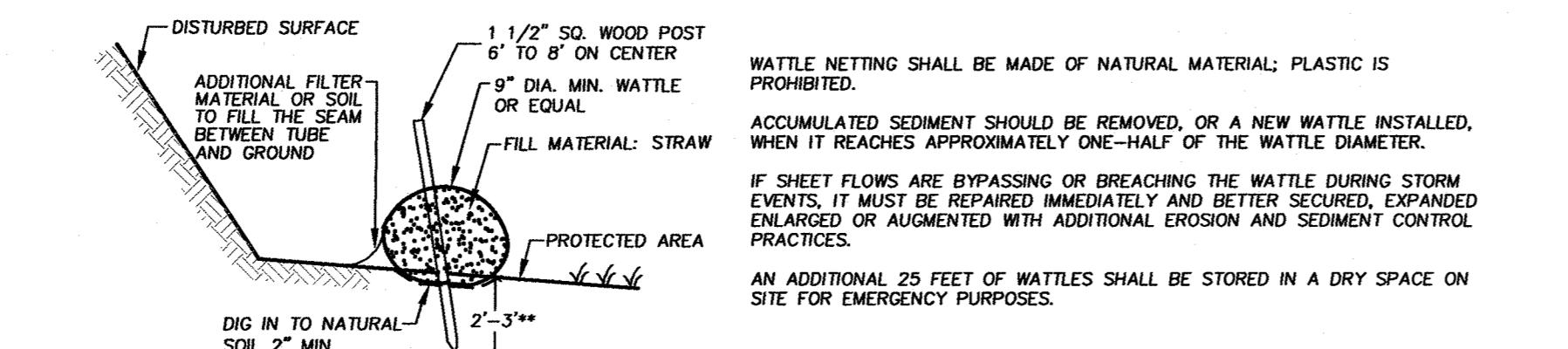


LENGTH SEE PLAN

(CROSS SECTION)

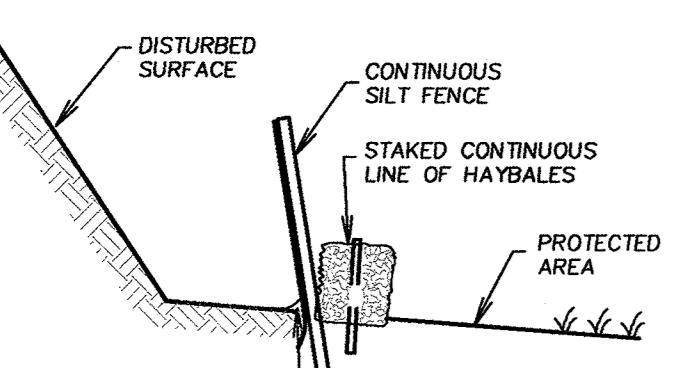
RECHARGE TRENCH

NOT TO SCALE

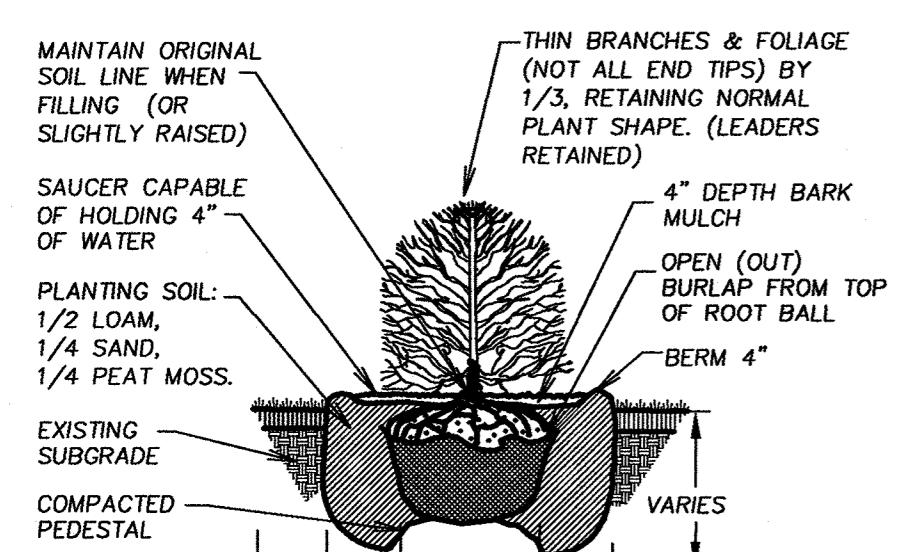


SILTATION BARRIER
WATTLE DETAIL

NOT TO SCALE

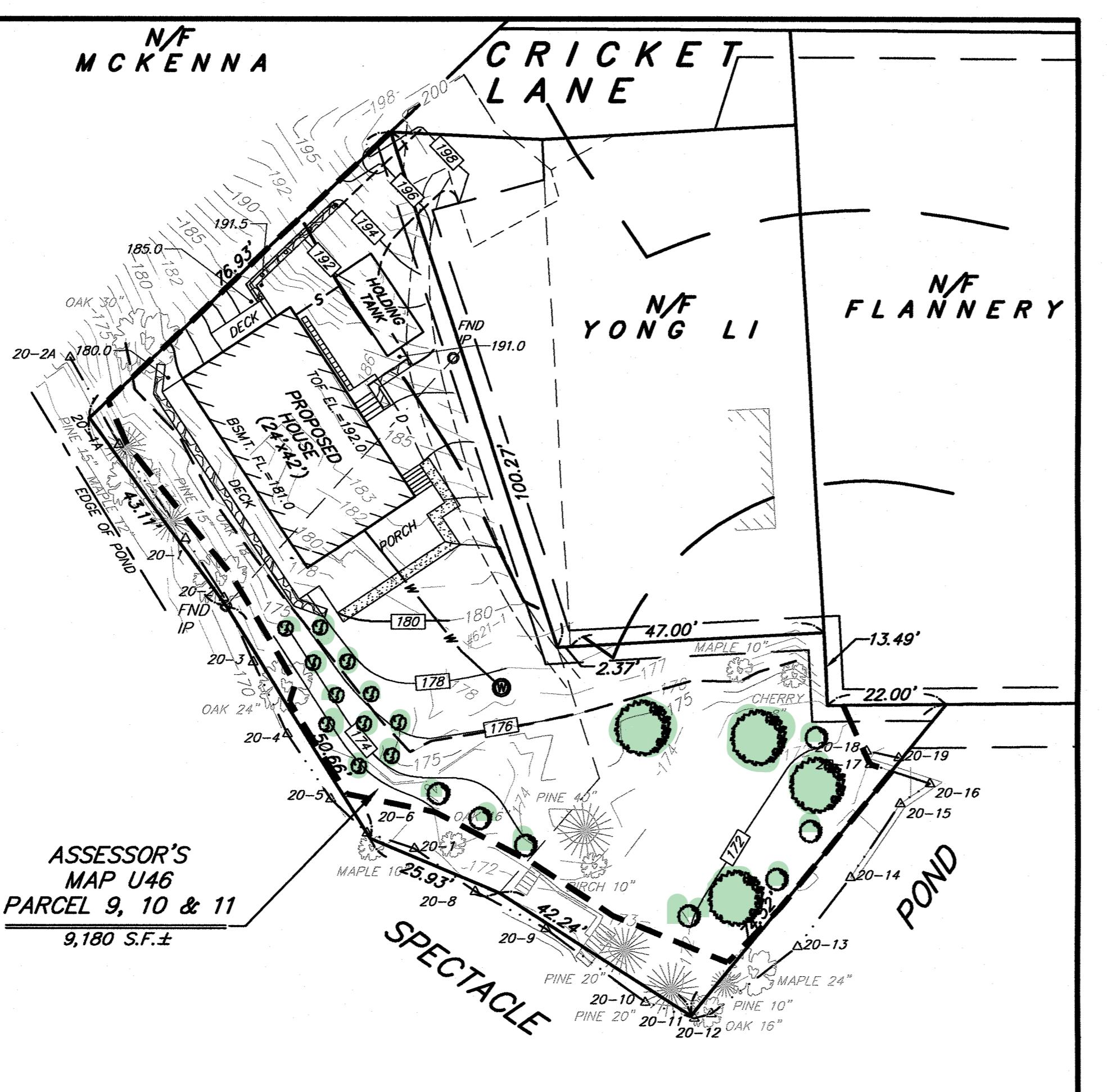


SILTATION BARRIER
(NOT TO SCALE)



SHRUB PLANTING DETAIL

NOT TO SCALE



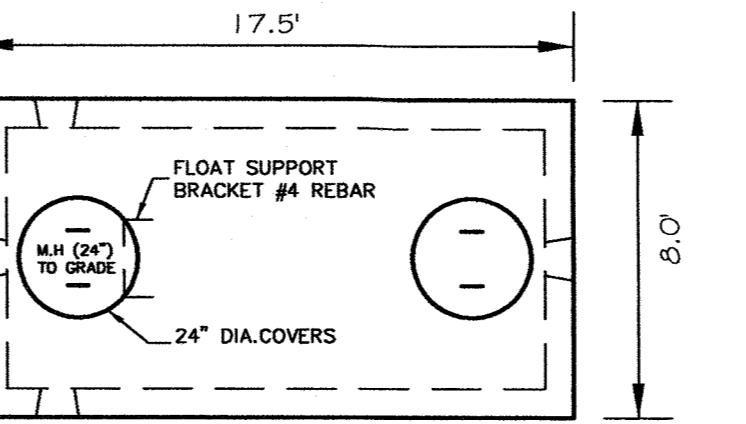
PLANTING PLAN DETAIL

1" = 20'

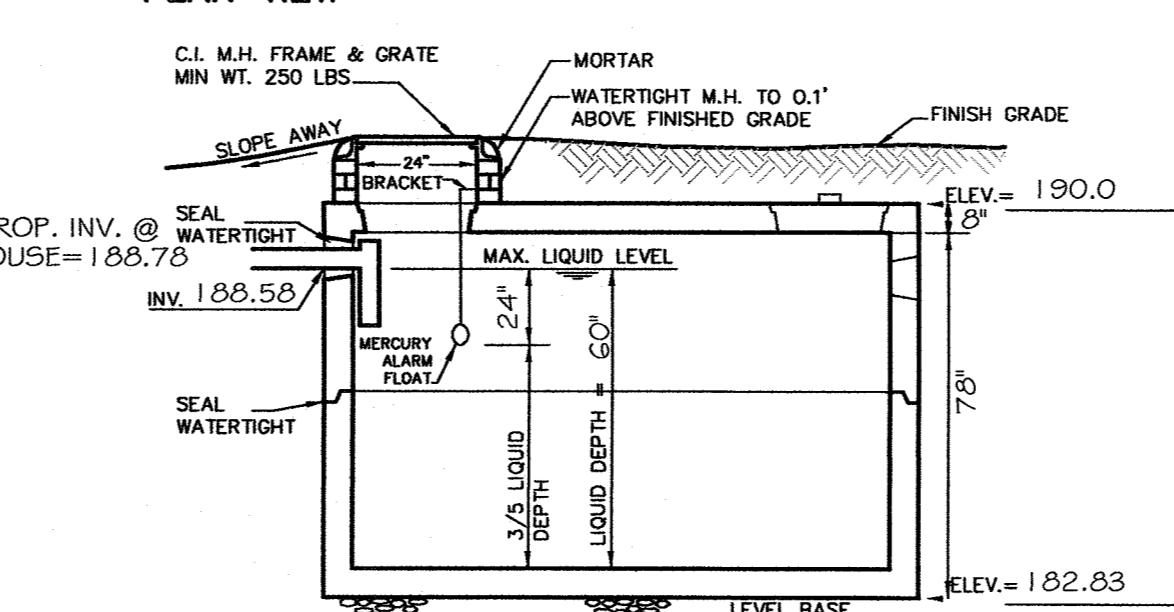
SYM.	COMMON NAME	SCIENTIFIC NAME	HEIGHT RANGE	QUANTITY
	Common juniper	Juniperus communis	15-18"	11
	Early azalea	Rododendron roseum	24-40"	7
	Red Maple Northern Red Oak	Acer rubrum Quercus rubra	2" Cal. 2" Cal.	2 2

DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



PLAN VIEW



SECTION

4,000 GALLON HOLDING TANK (H-20)

NOT TO SCALE

ENGINEER SPECIFIED TANK BY:
E.F. SHEA CONCRETE PRODUCTS, INC.
773 SALEM STREET (RTE 62), WILMINGTON, MA 01887
978-658-2645

TANK TO BE VENTED THROUGH BUILDING PLUMBING SYSTEM AS
REQUIRED BY BUILDING CODE.

TANK TO HAVE ALL JOINTS SEALED WATERTIGHT IN ACCORDANCE WITH
MANUFACTURER'S SPECIFICATIONS.

CONSTRUCTION MATERIALS AND DIMENSIONS TO CONFORM TO TITLE 5,
AASHTO HS 20-44 LOADING.

TANK DIMENSIONS MAY VARY, DEPENDING UPON MANUFACTURER'S
STANDARD, AS LONG AS LIQUID VOLUME CONFORMS WITH REQUIRED
LIQUID CAPACITY.

TANK LOCATION MUST BE ACCESSIBLE YEAR ROUND.

ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING
TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.

ALARM SPECIFICATIONS

ALARM TO BE SIGNALIZED BY SELF CONTAINED MERCURY FLOAT SWITCH
AT 3/5 TANK CAPACITY.

ALARM TO BE LOCATED INSIDE BUILDING AT VISIBLE LOCATION.

ALARM TO BE AUDIO/VISUAL WITH MANUAL RESET ON AUDIO ONLY.

ALL WORK TO CONFORM WITH STATE AND LOCAL CODES.

NO JUNCTION BOXES SHALL BE PLACED WITHIN TANK OR OUTSIDE HOUSE.

ALARM SHALL BE SEPARATE-FUSED CIRCUIT.

DESIGN CRITERIA

FLOW: 2 BEDROOM AT 110 GPD = 220 GPD

HOLDING TANK: PROPOSED 4,000 GAL. TANK

ABSOLUTE MIN. PER TITLE 5 POLICY = 2,000 GAL. TANK

CALCULATED MIN.: 110 GPD X 5.0 = 1,100 GAL. TANK

ESTIMATED FREQUENCY OF REMOVAL (PUMPING)

18 DAYS PER TITLE 5 ESTIMATION OF FLOWS.

NOTE: ALTHOUGH TITLE 5 ESTIMATIONS SHOW A FREQUENCY OF PUMPING EVERY 18 DAYS, CONSERVATIVE USE OF ALL WATER GENERATING FACILITIES WILL YIELD A LESS FREQUENT PUMPING SCHEDULE.

TIGHT TANK OPERATION AND MAINTENANCE PLAN

FREQUENCY OF PUMPING: THE TANK SHALL BE PUMPED WHEN THE CAPACITY REACHES THREE FIFTHS OF THE TOTAL CAPACITY (2400 GALLONS). THIS POINT SHALL BE SIGNALIZED BY THE ALARM FLOAT SWITCHES DETAILED ON THE PROPOSED PLAN. TITLE 5 ESTIMATES THAT THIS PEAK FREQUENCY WILL BE EVERY 18 DAYS. HOWEVER, CONSERVATIVE USE OF ALL WATER GENERATING FACILITIES WILL YIELD A LESS FREQUENT PUMPING SCHEDULE.

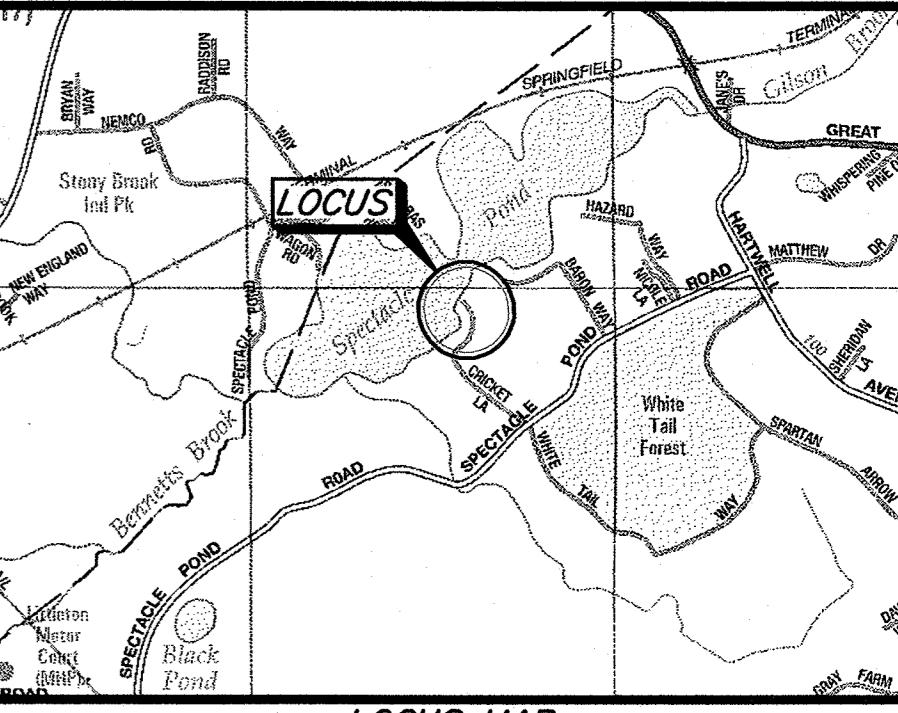
METHOD OF DISPOSAL: THE WASTE IS TO BE DISPOSED OF AT A WASTE WATER TREATMENT FACILITY LICENSED TO ACCEPT DOMESTIC WASTE WATER.

Maintenance: THE WASTE HAULER IS TO VISUALLY INSPECT THE TANK FOR STRUCTURAL INTEGRITY AT EACH PUMPING. HE WILL REPORT ANY OBSERVED IRREGULARITIES TO THE FACILITY OWNER WHO WILL INVESTIGATE AND FOLLOW UP AS NEEDED.

THE FLOAT SWITCHES AND ALARM SYSTEM ARE TO BE INSPECTED AT LEAST ONCE EACH YEAR, AND TESTED MONTHLY. IF THE TANK REACHES THREE FIFTHS CAPACITY (2400 GALLONS) AND THE ALARM PROPERLY ACTIVATES, THIS IS CONSIDERED TO BE A SUCCESSFUL TEST.

NO PERMANENT STRUCTURES ARE TO BE PLACED SUCH THAT THEY WILL INTERFERE WITH ACCESS TO THE TANK.

THE LOCAL BOARD OF HEALTH MAY ADD ADDITIONAL ITEMS TO THIS OPERATION AND MAINTENANCE PLAN IF IT FEELS THEY ARE NEEDED TO PROTECT PUBLIC HEALTH AND THE ENVIRONMENT.



LOCUS MAP
NOT TO SCALE

NOTES
THE EXISTING CONDITIONS AND TOPOGRAPHIC SURVEY WAS COMPLETED BY DAVID E. E. IN OCTOBER OF 2020.

THE PROPERTY LINES AS SHOWN ARE TAKEN FROM PLAN ENTITLED "PLAN OF LAND IN LITTLETON MASS." DATED APRIL 24, 1946, BY JOSEPH C. SHAW RECORDED IN THE MIDDLESEX (SOUTH DISTRICT) REGISTER OF DEEDS BOOK 6306 PAGE 196.

PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE FOR THE SYSTEM, THE SYSTEM OWNER SHALL RECORD AND/OR REGISTER IN THE APPROPRIATE REGISTRY OF DEEDS AND/OR LAND REGISTRATION OFFICE, A NOTICE DISCLOSING THE USE OF HOLDING TANK.

A NOTICE IS REQUIRED WITH THE REGISTRY OF DEEDS DISCLOSING A BEDROOM COUNT DEED RESTRICTION FOR TWO BEDROOMS.

CONTRACTOR SHALL GRADE TO ENSURE PROPER DRAINAGE AND TO AVOID CREATING PONDING AREAS.

OWNER OF RECORD: PETER MCANESPIE PAGE 459
#26 CRICKET DEED BOOK: 73461 PAGE 213
#28 CRICKET DEED BOOK: 73353 PAGE 106
#30 CRICKET DEED BOOK: 75619 PAGE 106

OWNER IS RESPONSIBLE FOR OBTAINING BUILDING PERMITS ASSOCIATED WITH RETAINING WALLS AND FENCES AS REQUIRED BY STATE OR LOCAL REGULATIONS.

OWNER SHALL VERIFY EFFECTIVE ZONING REGULATIONS PRIOR TO CONSTRUCTION.

THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY GROUNDWATER OR STORMWATER RUN-OFF THAT MAY ENTER THE BUILDING DUE TO IMPROPER GRADING.

THE DESIGN ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY PLAN DEFICIENCIES FOUND DUE TO UNFORESEEN SUBSURFACE CONDITIONS OR OTHER REASONS THAT MIGHT AFFECT THE FUNCTION OF THIS DESIGNED SYSTEM.

CONTRACTOR SHALL NOTIFY "DIG SAFE" PRIOR TO ANY EXCAVATION. 1-888-DIG-SAFE (344-7233)

HOLDING TANK MANHOLE COVERS MUST BE CONCRETE OR OTHER SOLID MATERIAL. PLASTIC MANHOLE COVERS ARE NOT ALLOWED IN ACCORDANCE WITH LITTLETON BOARD OF HEALTH REGULATION 33.

THE PURPOSE OF THIS PLAN IS TO RECONSTRUCT A SINGLE FAMILY DWELLING IN PLACE OF THREE EXISTING HOMES AND REPLACE THE EXISTING SEWAGE DISPOSAL SYSTEM.

VARIANCE REQUIRED:
15.2 (1) MINIMUM DISTANCES REQUIRE THAT THE HOLDING TANK BE SETBACK A MINIMUM OF 10 FEET FROM A PROPERTY LINE. THE PROPOSED HOLDING TANK IS SETBACK 5.6 FEET FROM THE PROPERTY LINE.

GRAPHIC SCALE IN FEET

SURV.: MSB/JDS CALC.: JPG DRAFT: BJD
NB: 815-8 DEED: 23353-213 23361-459 25619-106 CHECK: DBW

REVISIONS
8/6/21: REV. PER CON COM COMMENTS

DANIEL B. WOLFE, C.E., P.E.
COMMISSIONER OF MASSACHUSETTS
REGISTERED PROFESSIONAL ENGINEER
Mass. Reg. No. 26523
Signature: Daniel B. Wolfe
Date: 8-6-21

SHEET TITLE: SEWAGE DISPOSAL SYSTEM
HOLDING TANK

DESIGNED FOR: PETER MCANESPIE

ADDRESS: #26, #28 & 30 CRICKET LANE
LITTLETON, MA

LOT NO.: ASSESSOR MAP: ASSESSOR PARCEL:
U46 9, 10 & 11

DAVID E. ROSS
ASSOCIATES, INC.

CIVIL ENGINEERS - LAND SURVEYORS
ENVIRONMENTAL CONSULTANTS

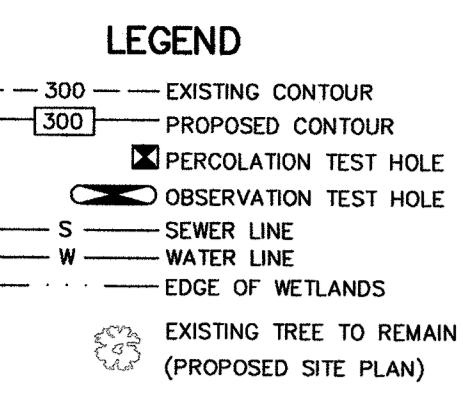
6 Lancaster County Road
P.O. Box 795
Harvard, MA 01451-0795

978-772-6232
FAX 978-772-6258
www.davideross.com

SCALE: 1"=20' DATE: JULY, 2021

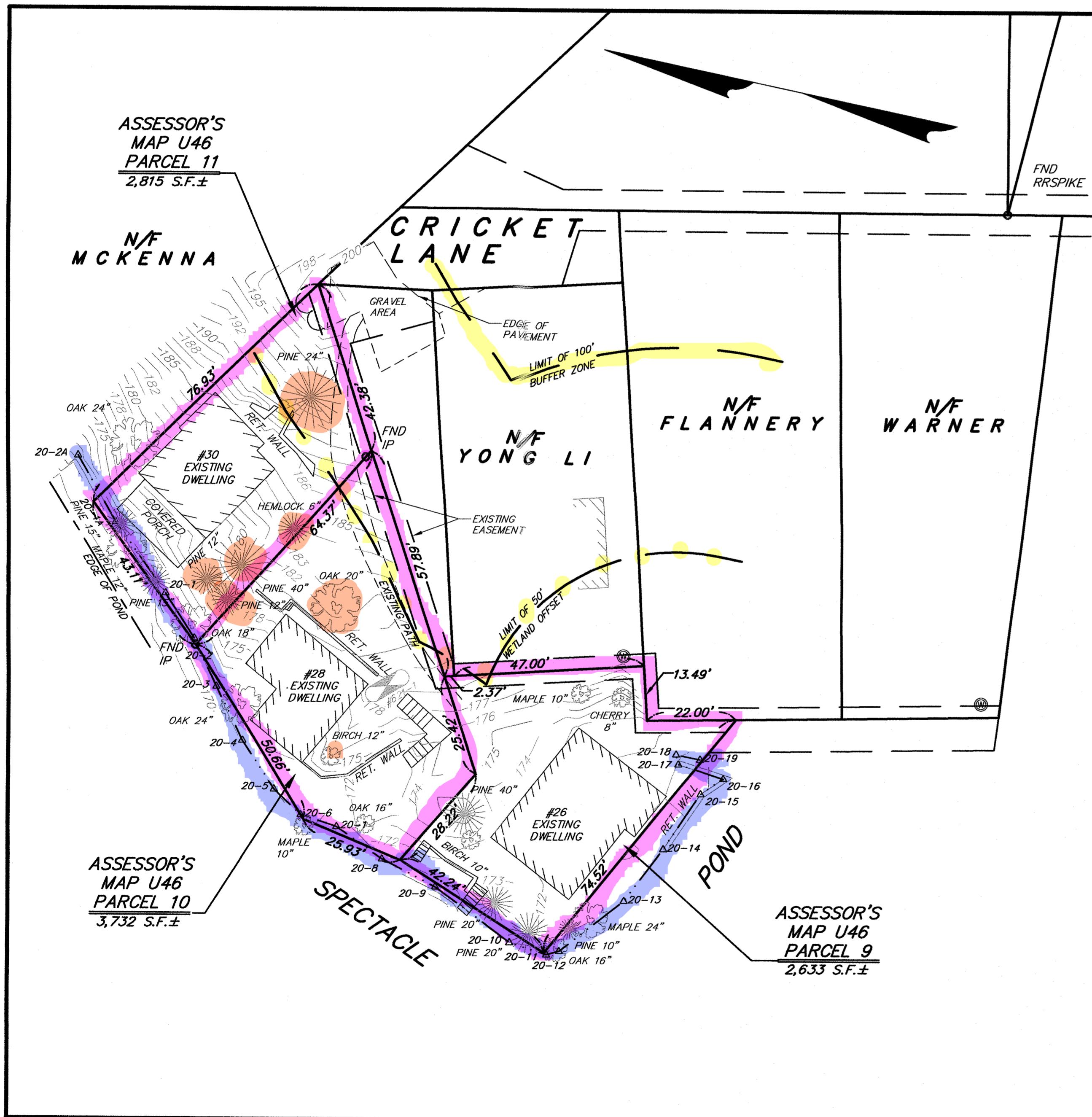
REF.: PLAN NO.: L-14345

JOB NO.: 33242 SHEET NO.: 1 of 2

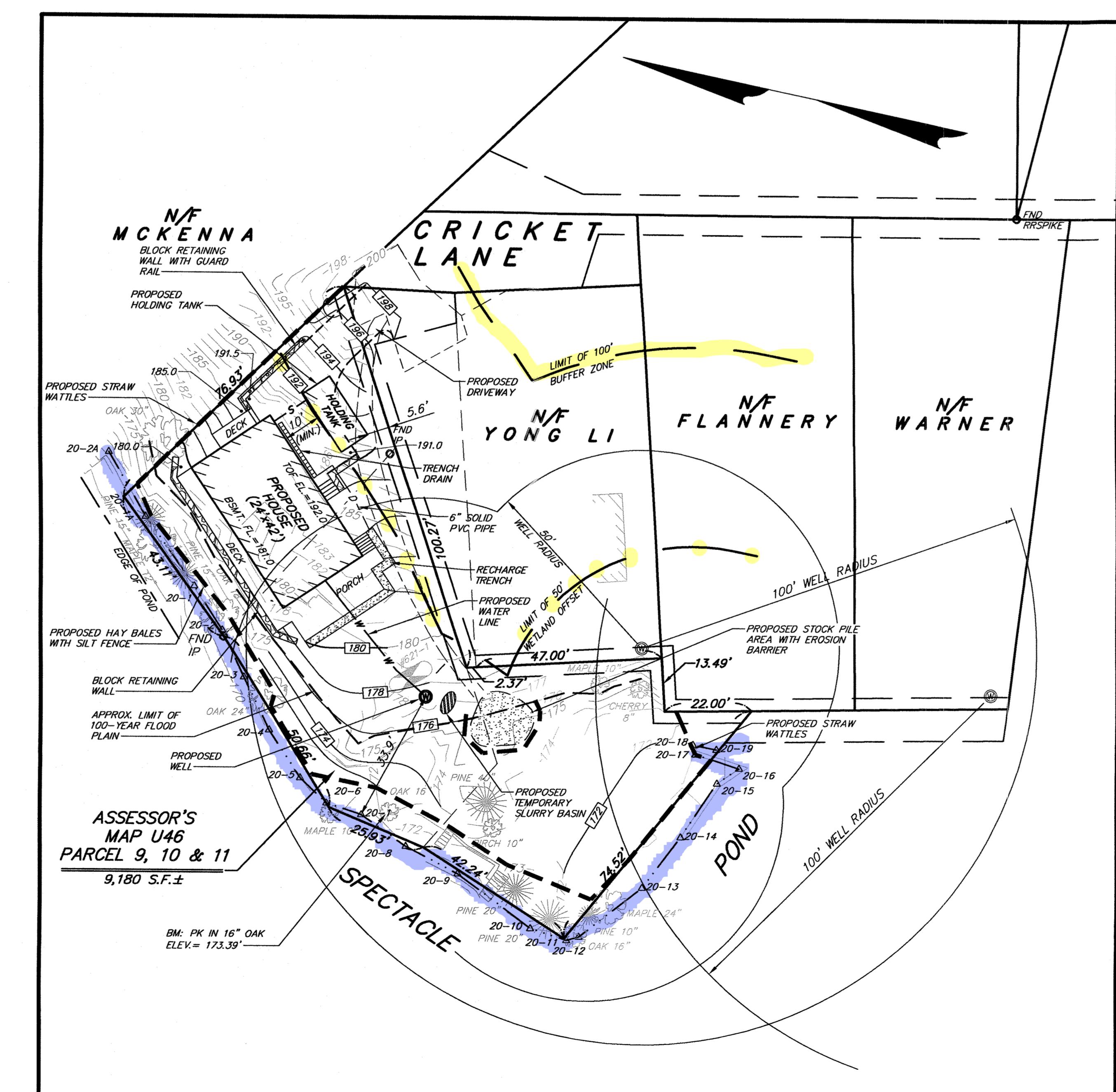


ZONING REQUIREMENTS					
"R" RESIDENTIAL DISTRICT					
DESCRIPTION	REQUIRED	EXISTING (#26)	EXISTING (#28)	EXISTING (#30)	PROVIDED
LOT AREA	40,000 S.F.	2,633 S.F.±*	3,732 S.F.±*	2,815 S.F.±*	9,180 S.F.±*
MIN. LOT FRONTAGE	150'	0'*	0'*	0'*	0'*
MIN. FRONT SETBACK	25'	N/A	N/A	N/A	N/A
MIN. SIDE SETBACK	15'	0.9'*	11.8'*	1.7'*	4.1'*
MIN. REAR SETBACK	15'	14.4'*	1.6'*	3.7'*	12.0'*

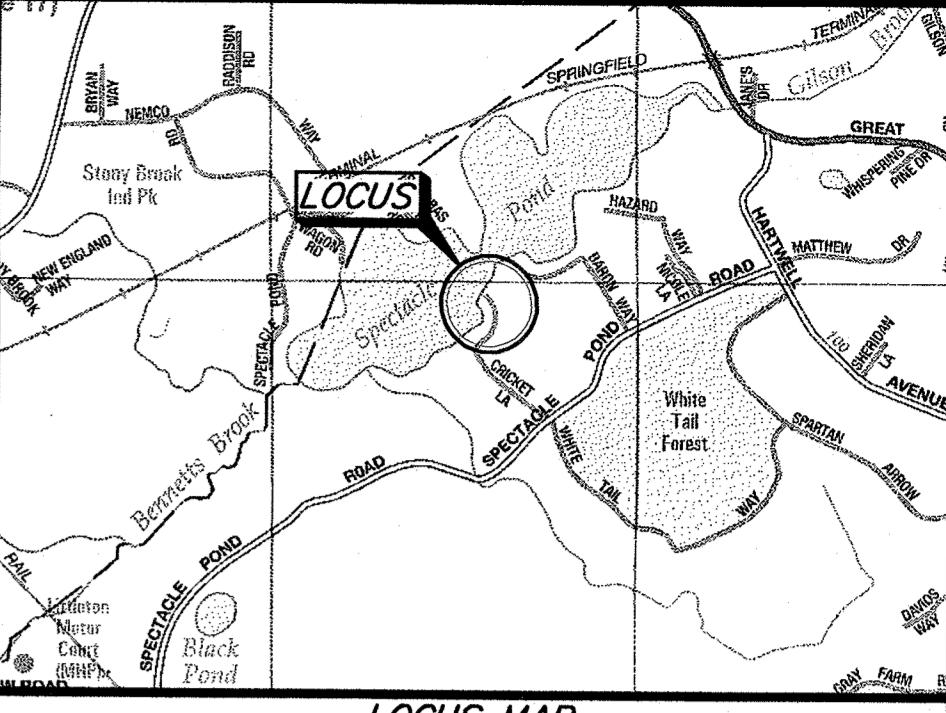
***PRE-EXISTING, NON-CONFORMING**



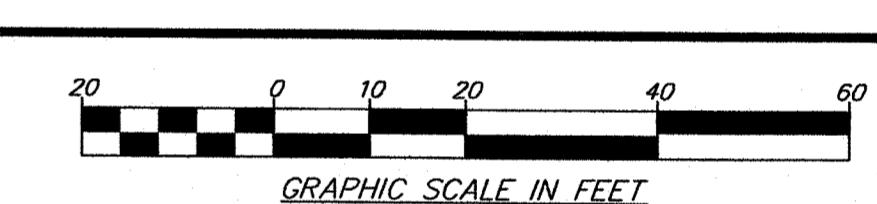
EXISTING SITE PLAN

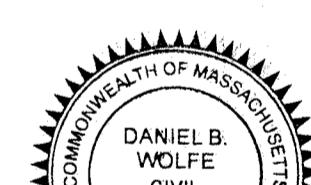


PROPOSED SITE PLAN
1"=20'



LOCUS MAP
NOT TO SCALE



SURV.: MSB/JDS	CALC.: JPG	DRAFT: BJD
NB: 815-8	DEED: 73353-213 73861-459 75619-106	CHECK: DBW
<p>REVISIONS</p> <p>8/6/21: REV. PER CON COM COMMENTS</p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p>		
 <p>DANIEL B. WOLFE CIVIL No. 36523 REGISTERED PROFESSIONAL ENGINEER</p> <p><i>Daniel B. Wolfe 8/6/21</i></p>		

SHEET TITLE: *SEWAGE DISPOSAL SYSTEM
HOLDING TANK*

DESIGNED FOR: **PETER McANESPIE**

LOT NO.:	ASSESSOR MAP:	ASSESSOR PARCEL:
	1116	8, 10 & 11

11 of 11

 DAVID F. ROSS

DAVID ENTHUS ASSOCIATES INC.

CIVIL ENGINEERS - LAND SURVEYORS ENVIRONMENTAL CONSULTANTS

6 Lancaster County Road 978-772-6232
P.O. Box 795 FAX 978-772-6258

Harvard, MA 01451-0795 www.davideross.com

1"=20' JULY, 2021

PLAN NO.: L-14345

JOB NO.: 33242 SHEET NO.: 2 of 2