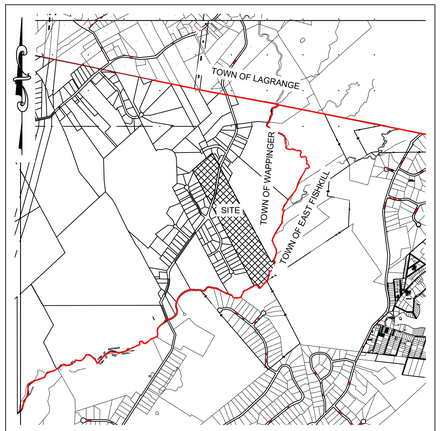
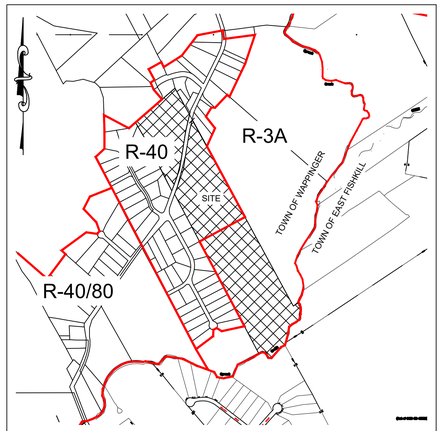
WAPPINGER FARM ESTATES

105 Robinson Lane
Wappinger, NY 12590

PREPARED FOR
Lavish, Inc.
P.O. Box 313
Wassaic, NY 12592



LOCATION MAP SCALE: 1" = 2000'



AREA MAP SCALE: 1" = 1,000'

Zone Classification	R-40 and R-3A
Use	Residential
Tax Map Parcel No	135689-6459-03-110235
Topographic Datum	NAVD 88
Total Acreage:	61.8 Ac. +/-
Water Supply:	Individual Water
Sewage Disposal:	Individual Sewer

Bulk Regulations:	Required (R-40)	Proposed (Lot 1)	Proposed (Lot 2)	Proposed (Lot 3)	Proposed (Lot 4)	Proposed (Lot 5)	Proposed (Lot 6)	Proposed (Lot 7)	Proposed (Lot 8)	Proposed (Lot 9)	Proposed (Lot 10)	Proposed (Lot 11)	Proposed (Lot 12 - Not a building lot)*
Minimum lot area (square feet unless noted)	40,000	44,916	40,656	51,895	66,329	82,619	76,493	98,777	840,741	214,948	139,163	198,384	780,586
With public water and sewer	--	--	--	--	--	--	--	--	--	--	--	--	N/A
With public water or sewer	--	--	--	--	--	--	--	--	--	--	--	--	N/A
Without public water and sewer	--	--	--	--	--	--	--	--	--	--	--	--	N/A
Minimum Lot Size													
Width (feet)	125	241	136	125	125	133	131	143	134	413	186	528	N/A
Depth (feet)	125	184	317	400	500	521	526	569	557	551	706	590	N/A
Frontage (feet)	50	347	138	122	122	124	116	68	64	608	126	295	N/A
Maximum dwelling units per net lot area	--	1	1	1	1	1	1	1	1	1	1	1	None - Not buildable
Minimum front yard (feet) from:													
County/state highway	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Center line of other street	75	84	77	108	112	95	150	203	306	262	229	240	N/A
Front lot line of other street	50	61	54	83	88	68	127	176	267	236	203	216	N/A
Minimum side yard (feet)	25	50	26	26	27	26	25	27	25	59	34	64	N/A
Accessory building <15 feet high and <200 square feet[3]	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Minimum rear yard (feet)	50	50	183	245	334	420	366	311	2175	197	404	347	N/A
Accessory building <15 feet high and <200 square feet[3]	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Building Height (stories/feet)	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	2.5/35	N/A
Maximum Building Coverage (percent)	12	3.90	4.43	3.47	2.71	2.66	2.87	2.22	0.267	0.837	1.293	0.91	N/A
Maximum floor area ratio	0.12	0.0390	0.0443	0.0347	0.0271	0.0266	0.0287	0.0222	0.00267	0.00837	0.01293	0.0091	N/A

(3): Notwithstanding the minimum side and rear yard setbacks set forth in this schedule, the minimum side and rear yard setbacks shall be six feet for all accessory buildings as defined in this chapter less than 100 square feet in area. No more than two accessory buildings shall be permitted in any 1-Family Residence District. No such accessory building shall have a footprint greater than 600 square feet nor a height in excess of 20 feet. The minimum side and rear yard setbacks for any shed with electric service shall be 10 feet. See § 240-16.1, Shed amnesty, for sheds constructed prior to January 1, 1997, and registered prior to December 31, 2003.
*: Lot 12 may be conveyed to the Town of Wappinger and shall not be a building lot.

GENERAL SITE NOTES

1. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITEWORK CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.

2. CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED. THE OWNER AND ENGINEER MAKE NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY INFORMATION THAT WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL: MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD VERIFY EXISTING SITE CONDITIONS; CORRELATE CONDITIONS WITH THE DRAWINGS; AND, RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL TOPOGRAPHIC SURVEYS HE/SHE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER. ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDS FOR ADDITIONAL PAYMENT OR CHANGES TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST THE OWNER OR OWNER'S ENGINEER.

3. CONTRACTOR SHALL, WHEN HE/SHE DEEMS NECESSARY, PROVIDE A WRITTEN REQUEST FOR INFORMATION (RFI) TO THE OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITEWORK ITEM. THE (RFI) SHALL BE IN A FORM ACCEPTABLE TO OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF THREE WORK DAYS FOR A WRITTEN REPLY. RFI'S SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITEWORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.

4. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISIONS OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.

5. INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO BID. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO BID.

6. THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.

7. DRAWINGS ARE NOT TO BE SCALED: USE DIMENSIONS ONLY.

8. BUILDING FOOTPRINT DIMENSIONS SHOWN HEREON ARE APPROXIMATE. BUILDING DIMENSION TO BE TAKEN FROM ARCHITECTURAL PLANS. THE ENGINEERING SHALL BE NOTIFIED OF ANY DEVIATION FROM THE CONDITIONS SHOWN ON THE PLANS.

9. CONTRACTOR SHALL VERIFY WITH LOCATE UTILITY COMPANY THE LOCATION OF ANY UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATIONS.

10. ALL MATERIAL AND WORKMANSHIP IS TO BE GUARANTEED BY THE CONTRACTOR TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR. THE CONTRACTOR AGREES TO CORRECT, WITHOUT CHARGE SUCH CONDITIONS AS MAY OCCUR DURING THE GUARANTEE PERIOD.

11. ALL MATERIALS, ASSEMBLIES, CONSTRUCTION AND EQUIPMENT SHOWN HERE ON SHALL BE IN ACCORDANCE WITH
    - BUILDING CODE OF NEW YORK STATE AND SHALL CONFORM TO GENERALLY ACCEPTED STANDARDS.
    - CURRENT PREVAILING MUNICIPAL, COUNTY AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS AND REQUIREMENTS.
    - CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
    - CURRENT MANUFACTURER SPECIFICATION, STANDARDS AND REQUIREMENTS.

12. ALL CHANGES AND/OR SUBSTITUTIONS ARE TO BE APPROVED IN WRITING BEFORE BEING INCORPORATED INTO THE WORK.

13. CONTRACTOR IS TO REMOVE ALL RUBBISH FROM THE SITE RESULTING FROM HIS WORK DURING THE PROGRESS OF CONSTRUCTION AND SHALL LEAVE THE PREMISES IN A CONDITION SATISFACTORY TO THE OWNER PRIOR TO THE FINAL PAYMENT.

Table of Contents

Sheet No.			Sheet Title	To Be Filed
GI101	1	of 25	Cover Sheet	
VE101	2	of 25	Existing Conditons	
W.1	3	of 25	Wetland Delineation Plan	
DEC.1	4	of 25	Blanding's Turtle Protection Plan	
DEC.2	5	of 25	Impact Assessment Plan	
TR.1	6	of 25	Trail Location Plan	To Be Filed with DC Clerk's Office
HYD.1	7	of 25	Pre-Development Hydrology - Site Plan	
HYD.2	8	of 25	Pre-Development Hydrology - Partial Site Plan	
HYD.3	9	of 25	Post-Development Hydrology - Site Plan	
HYD.4	10	of 25	Post-Development Hydrology - Partial Site Plan	
HYD.5	11	of 25	Stormwater Management Practice Details	
LS.1	12	of 25	Landscaping Plan	
CE101	13	of 25	Erosion & Sediment Control Plan	
CE501	14	of 25	Erosion & Sediment Control Details	
SD101	15	of 25	Sight Distance Plan (Lots 1-6)	
SD102	16	of 25	Sight Distance Plan (Lots 7-11)	
CS101	17	of 25	Subdivision Plan	To Be Filed with DC Clerk's Office
CS102	18	of 25	Partial Subdivision Plan	To Be Filed with DC Clerk's Office
PP101	19	of 25	Plat Plan	To Be Filed with DC Clerk's Office
SDS.1	20	of 25	Overall SDS Layout Plan	To Be Filed with DC Clerk's Office
SDS.2	21	of 25	SDS Layout (Lots 1-4)	To Be Filed with DC Clerk's Office
SDS.3	22	of 25	SDS Layout (Lots 5-8)	To Be Filed with DC Clerk's Office
SDS.4	23	of 25	SDS Layout (Lots 9-11)	To Be Filed with DC Clerk's Office
SDS.5	24	of 25	SDS Field Schedule	To Be Filed with DC Clerk's Office
SDS.6	25	of 25	SDS Details	To Be Filed with DC Clerk's Office

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSONS TO ALTER THESE PLANS, SPECIFICATIONS, OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

Mark A. Day, PE

Revisions
- June 24, 2020
- May 7, 2020
- September 17, 2019
- August 19, 2019
- July 18, 2019
- July 11, 2019
- September 24, 2018
- July 17, 2018

Project No. 2018.107

License No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger — Dutchess County, New York

DRAWING
Cover Sheet

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	GI101
DATE	CHECKED BY	1 of 25
06-14-18	DJL	

Dutchess County Dept. of Health

Owner/Applicant

Lavish, Inc.
P.O. Box 313
Wassaic, NY 12592

Owner's Consent Note

THE UNDERSIGNED OWNER OF THIS PROPERTY HEREON STATES THAT HE IS FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENTS TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON

Lavish, Inc.

DATE

Town of Wappinger Planning Board

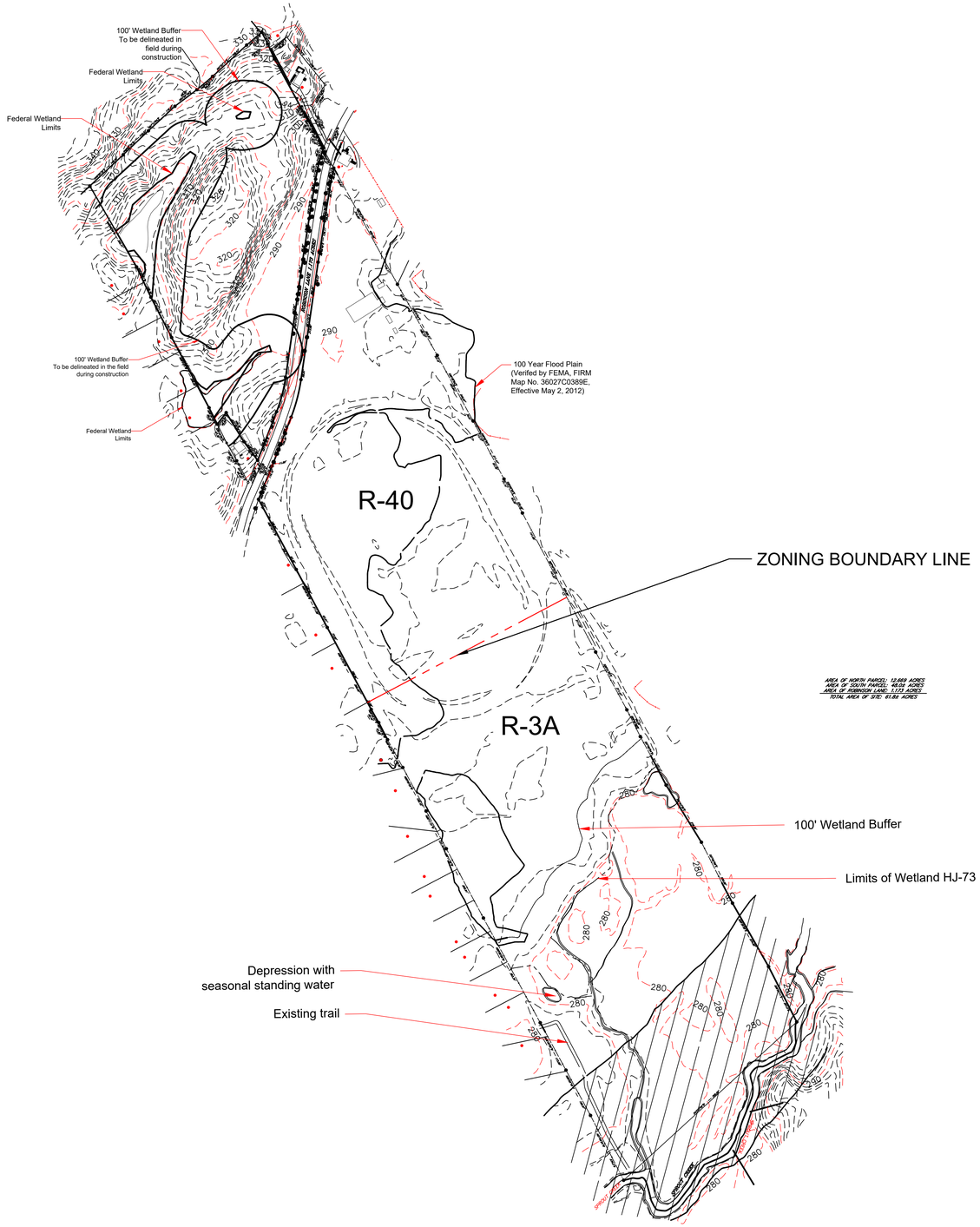
APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF WAPPINGER, NEW YORK ON THE_____ DAY OF _____, 2018 SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED SHALL VOID THIS APPROVAL.

TOWN OF WAPPINGER PLANNING BOARD

SIGNED THIS_____ DAY OF _____, 2018

Bruce Flower, TOWN OF WAPPINGER PLANNING BOARD CHAIR

DATE



LEGEND

- EXISTING PROPERTY LINE
- 200 EXISTING 10 FT CONTOUR LINE
- 198 EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- 100 YEAR FLOOD PLAIN
- EXISTING STREET TREE

SITE NOTES

1. PROPERTY BOUNDARY, TOPOGRAPHY AND EXISTING UTILITY SHOWN HEREON ARE BASED ON A SURVEY PREPARED BY BRIAN W. FRANKS LAND SURVEYOR, PC. DATED FEBRUARY 28, 2013.
2. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
3. TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 16 AND MARCH 31 TO PROTECT INDIANA BATS.
4. THE APPLICANT SHALL PLACE LARGE STONES AS A MEANS OF DELINEATING THE 100' WETLAND BUFFER ON LOT 9, LOT 10 AND LOT 11 TO ENSURE THAT ANY PROPOSED LIMITS OF DISTURBANCE STAY OUTSIDE THE WETLAND BUFFER.

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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July 11, 2019	
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Project No. 2018.107	License No. 069646

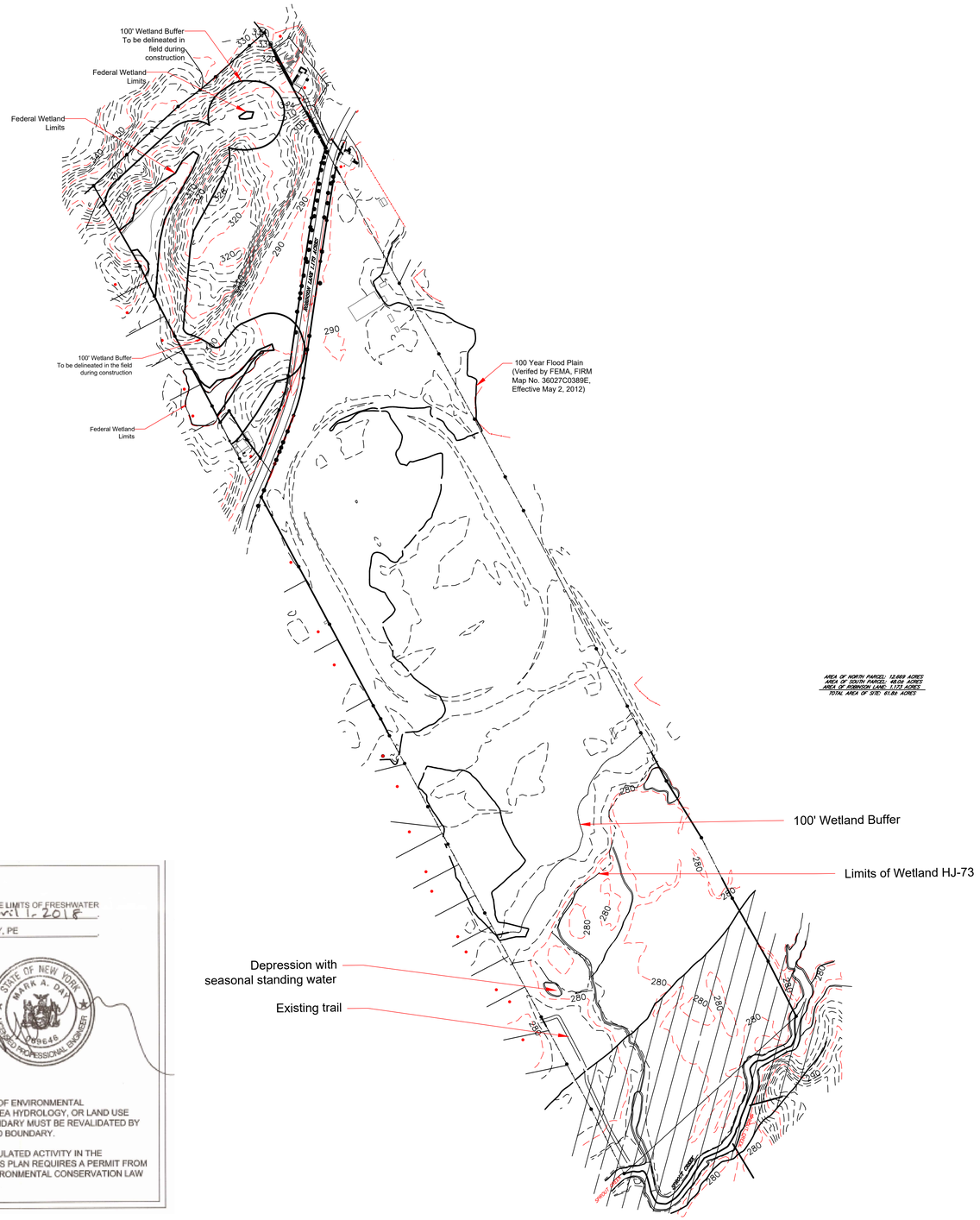
STATE OF NEW YORK · MARK A. DAY · No. 069646 · LICENSED PROFESSIONAL ENGINEER

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Existing Conditions

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	VE101
DATE	CHECKED BY	2 of 25
06-14-18	DJL	



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NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

THE FRESHWATER WETLAND BOUNDARY AS REPRESENTED ON THESE PLANS ACCURATELY DEPICTS THE LIMITS OF FRESHWATER WETLAND: HJ-73, AS DELINEATED BY: Michael Nowicki ON April 2016.

DEC STAFF: Brian Drumm 5/29/2019
SIGNED: Brian Drumm Biologist II

SURVEYOR/ ENGINEER: MARK A. DAY, PE

DATE VALID: 5/29/2019 EXPIRATION DATE: 5/29/2024

SEAL:

STATE OF NEW YORK · MARK A. DAY · 069646 · LICENSED PROFESSIONAL ENGINEER

WETLAND BOUNDARY DELINEATIONS AS VALIDATED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION REMAIN VALID FOR FIVE (5) YEARS UNLESS EXISTING EXEMPT ACTIVITIES, AREA HYDROLOGY, OR LAND USE PRACTICES CHANGE (E.G. AGRICULTURAL TO RESIDENTIAL). AFTER FIVE (5) YEARS THE BOUNDARY MUST BE REVALIDATED BY DEC STAFF. REVALIDATION MAY INCLUDE A NEW DELINEATION AND SURVEY OF THE WETLAND BOUNDARY.

ANY PROPOSED CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING OR OTHER REGULATED ACTIVITY IN THE FRESHWATER WETLAND OR WITHIN 100 FT OF THE WETLAND BOUNDARY AS DEPICTED ON THIS PLAN REQUIRES A PERMIT FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION UNDER ARTICLE 24 OF THE ENVIRONMENTAL CONSERVATION LAW (FRESHWATER WETLANDS ACT) PRIOR TO COMMENCEMENT OF WORK.

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
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STATE OF NEW YORK · MARK A. DAY · 069646 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
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DRAWING
Wetland Delineation Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	W.1
DATE	CHECKED BY	3 of 25
06-14-18	DJL	

Z:\2010 AutoCad Dwgs\2018.032 - Robinson Lane Subdivision\CAD Files\Sheet Files\2018032-GI101 (As of 08-03-18).dwg

	Area of disturbance within 330 feet of wetlands (acres):
Lot 1	0.004
Lot 2	0.00
Lot 3	0.00
Lot 4	0.00
Lot 5	0.00
Lot 6	0.00
Lot 7	0.00
Lot 8	0.00
Lot 9	0.81
Lot 10	0.66
Lot 11	1.24
Total =	**2.714 ac.**

Existing Soils on site	Area of impact for soil type (acres):
DwC - Dutchess complex, rolling, rocky	3.26
HsA - Hoosic gravelly loam, nearly level	5.71
Su - Sun silt loam	0.02
Wy - Wayland silt loam	0.00
Total =	**9.0 ac.**

BLANDING'S TURTLE ENCOUNTER AND EDUCATION NOTES:

A. THIS AREA MAY CONTAIN SUITABLE HABITAT FOR THE BLANDING'S TURTLE, WHICH IS A NYS LISTED THREATENED SPECIES. THIS SPECIES IS AN IMPORTANT PART OF OUR ECOSYSTEM AND IT IS ILLEGAL TO KILL, HARM, OR HARASS THEM.
B. AN ENCOUNTER AND EDUCATION PAMPHLET SHALL BE DISTRIBUTED TO ALL CONSTRUCTION WORKERS AT THE PROJECT SITE BY THE PROJECT ENGINEER.
C. THE BLANDING'S TURTLE IS A MEDIUM SIZED TURTLE WITH AN AVERAGE SHELL LENGTH OF APPROXIMATELY SEVEN TO NINE INCHES AND A MAXIMUM LENGTH OF 10 INCHES. A DISTINGUISHING FEATURE OF THIS TURTLE IS THE BRIGHT YELLOW CHIN AND THROAT.
D. MATING MOST LIKELY OCCURS IN APRIL AND EARLY MAY WITH NESTING BEGINNING IN EARLY JUNE AND LASTING THROUGHOUT THE MONTH.
E. THE BLANDING'S TURTLE OVERWINTERS UNDER OR NEAR WATER, IN MUD OR UNDER VEGETATION OR DEBRIS. DURING THE NESTING SEASON, A FEMALE BLANDING'S TURTLE MAY BE FOUND MORE THAN A KILOMETER FROM WHERE IT HIBERNATED.
F. BLANDING'S TURTLES TAKE 18-22 YEARS TO REACH SEXUAL MATURITY AND MAY LIVE UP TO BE 70 YEARS OLD.
G. BLANDING'S TURTLES MOVE THROUGH AND/OR UTILIZE SEVERAL HABITAT TYPES. AQUATIC/WETLAND HABITATS ARE USED FOR HIBERNATION, MATING, FEEDING, SHELTER, AESTIVATING, AND BASKING. WHILE TERRESTRIAL HABITATS ARE USED FOR NESTING AND SEASONAL MIGRATIONS, AS WELL AS AESTIVATING, AND BASKING. ALTHOUGH THERE IS VARIATION THROUGHOUT THE GEOGRAPHIC DISTRIBUTION OF THE BLANDING'S TURTLE, TERRESTRIAL HABITATS CAN OFTEN BE WELL OVER ½ MILE FROM CORE WETLAND HABITATS, AND AN INDIVIDUAL TURTLE'S HOME RANGE MAY BE 50 ACRES OR MORE.
H. MEASURES TO TAKE DURING ENCOUNTERS:
   1. ALL PERSONNEL WORKING AT THE SITE WILL BE TRAINED TO BE ABLE TO IDENTIFY, AND LOCATE BLANDING'S TURTLES BY A KNOWLEDGEABLE BIOLOGIST. TURTLES CAN ONLY BE MOVED BY A QUALIFIED BIOLOGIST WITH KNOWLEDGE OF BLANDING'S AND RELOCATION PROCEDURES WHO IS ALSO LICENSED BY THE NYSDEC TO HANDLE BLANDING'S TURTLES.
   2. IT IS ILLEGAL TO TAKE, IMPORT, TRANSPORT, POSSESS, OR SELL AN ANIMAL LISTED AS THREATENED WITHOUT A LICENSE.
   3. IF A TURTLE IS SEEN, STOP ALL WORK IMMEDIATELY. TO RESTART WORK, WRITTEN APPROVAL IS REQUIRED FROM THE NYSDEC.
   4. CONTACT THE CONTRACTOR IN CHARGE AND DELAY WORK IN THE AREA UNTIL THE TURTLE HAS MOVED SAFELY FROM THE AREA. ALLOW THE TURTLE TO CONTINUE ON ITS WAY.
   5. IF THE TURTLE DOES NOT MOVE ALONG ON ITS OWN OR IS FOUND IN THE BARRIER FENCE, CONTACT THE FOLLOWING RESPONSE NUMBER TO HAVE A TRAINED, NYS LICENSED PROFESSIONAL, SAFELY RELOCATE THE TURTLE (MICHAEL NOWICKI AT 203-910-4716).
   6. CONTACT THE NYSDEC WILDLIFE OFFICE TO REPORT THE INCIDENT WITHIN 24 HOURS AT 845-256-3098 OR wildlife.R3@dec.ny.gov. PLEASE PROVIDE THE LOCATION, THE PROJECT NAME, AND EXPLANATION OF INCIDENT.
   7. IF THE TURTLE WAS FOUND WITHIN A TURTLE EXCLUSION FENCE, WORK CANNOT COMMENCE UNTIL FENCING IS INSPECTED BY AND SIGNED SIGNED OFF ON BY A KNOWLEDGEABLE BLANDING'S TURTLE CONSULTANT (TURTLE MONITOR) AND THE NYSDEC ISSUES WRITTEN APPROVAL THAT WORK CAN COMMENCE.
   8. THE PROJECT SPONSOR WILL PROVIDE EDUCATIONAL MATERIALS FOR ALL CONTRACTORS AND RESIDENTS TO INFORM OF THE POTENTIAL FOR BLANDING'S TURTLE ENCOUNTERS AND WHAT TO DO IF A TURTLE IS ENCOUNTERED TO ENSURE THE ANIMALS ARE NOT COLLECTED OR PERSECUTED.
   9. IF A TURTLE IS FOUND WITHIN THE TEMPORARY BARRIER FENCING, FENCING NEEDS TO BE INSPECTED, REPAIRED, AND THE AREA SWEPT AND SIGNED OFF ON BY THE MONITOR. TO RESTART WORK, WRITTEN APPROVAL IS REQUIRED FROM THE DEPARTMENT.

BLANDING'S TURTLE NOTES:

THE SUBJECT SITE CONTAINS POTENTIAL HABITAT THAT COULD BE SUITABLE FOR BLANDING'S TURTLES. MITIGATION MEASURES SHALL BE TAKEN PRIOR TO, AND DURING CONSTRUCTION TO MINIMIZE IMPACTS TO BLANDING'S TURTLES.

PRIOR TO CONSTRUCTION:

IF CONSTRUCTION IS TO OCCUR BETWEEN APRIL 15TH AND OCTOBER 15TH (ACTIVE PERIOD), PRIOR TO CONSTRUCTION, A TURTLE BARRIER FENCE SHALL BE ERECTED ALONG THE PROPOSED EDGE OF DISTURBANCE AS DELINEATED BY THE LOCATIONS SHOWN ON THIS PLAN DEPENDING ON WHICH PHASE OF WORK IS OCCURRING. THE BARRIER FENCE SHALL BE ERECTED DURING THE WINTER HIBERNATION PERIOD, WHICH IS BETWEEN OCTOBER 16TH AND APRIL 14TH.

TURTLE MONITOR: A TRAINED NEW YORK STATE LICENSED BIOLOGIST QUALIFIED IN MONITORING AND HANDLING THREATENED AND ENDANGERED SPECIES IN NEW YORK STATE.

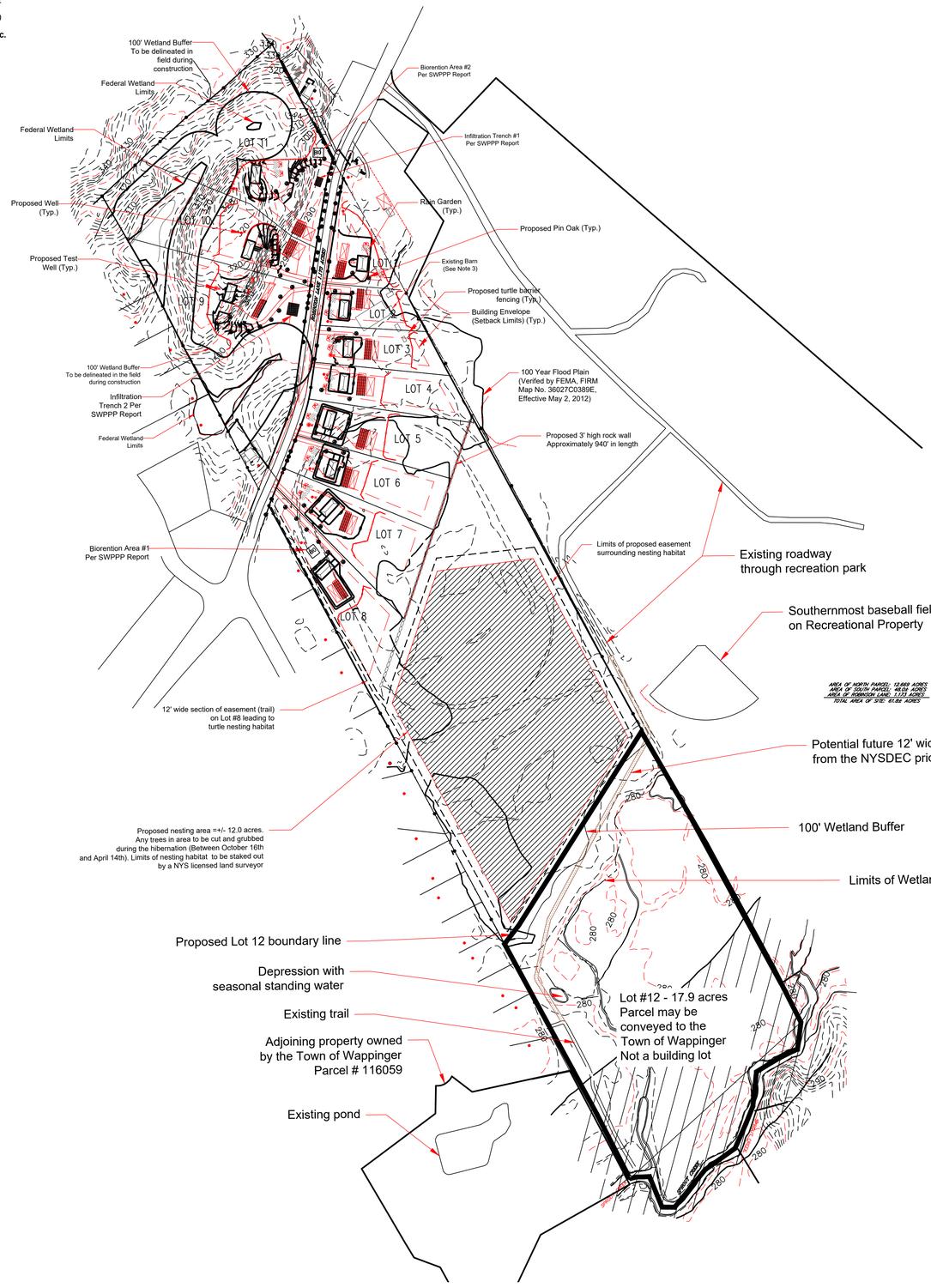
DURING CONSTRUCTION:
1. BARRIER FENCE: SITE WORK INVOLVING GROUND DISTURBANCE SHALL BE CONDUCTED BETWEEN OCTOBER 16TH AND APRIL 14TH WHEN POSSIBLE. FOR ALL SITE WORK INVOLVING GROUND DISTURBANCE BETWEEN APRIL 15TH AND OCTOBER 15TH, THE APPLICANT SHALL INSTALL THE TEMPORARY TURTLE BARRIER AT THE LOCATION SPECIFIED ON THIS PLAN AND IN ACCORDANCE WITH SPECIFICATIONS AND DETAIL SHOWN ON THIS SHEET. IF INSTALLED, THE BARRIER SHALL BE INSPECTED DAILY, MAINTAINED AS NEEDED, AND REMAIN IN PLACE DURING THE ACTIVE PERIOD UNTIL SUCH TIME THAT ALL SITE WORK INVOLVING GROUND DISTURBANCE IS COMPLETE. THE NYSDEC PREFERRED METHOD IS TO RESTRICT LAND DISTURBANCE BETWEEN APRIL 16TH AND OCTOBER 15TH, WHEN TURTLES ARE ACTIVE.
2. TEMPORARY 15 MPH SPEED LIMIT SIGNS SHALL BE PLACED ALONG ROBINSON LANE. THIS WILL SLOW DOWN VEHICLES WHICH GIVES THEM A CHANCE TO SEE A TURTLE IN THE ROAD. TURTLES CAN AS APPEAR AS "ROCKS" IN THE ROAD.
3. SEE BLANDING'S TURTLES CONSTRUCTION SEQUENCING SCHEDULE WITH REGARD TO TURTLE PROTECTION AND BARRIER FENCE REQUIREMENTS.
4. THE TURTLE BARRIER FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS AND THE DETAIL ON THIS SHEET:

- MADE OF FINE MESH (¼ INCH SQUARE) FILTER-FABRIC OR NON-WOVEN GEOTEXTILES (AKA SUPER SILT FENCE OR REINFORCED SILT FENCE)
- A MINIMUM OF 42" HIGH
- ANCHORED INTO THE GROUND WITH REINFORCEMENT BARS PLACED ON THE "DISTURBANCE SIDE" OF THE BARRIER AND SPACED BETWEEN 6 - 8 FEET APART.
- SECURED AT THE BASE (BARRIER/GROUND INTERFACE) WITH AT LEAST 8" OF FENCE MATERIAL COVERED WITH SOIL BACKFILL.

TRAP HAZARD PROTECTION:

THE APPLICANT WILL ENSURE THAT NO BLANDING'S TURTLES WILL BE INJURED OR KILLED BY BECOMING TRAPPED IN THE PROJECT AREA DURING OR AFTER CONSTRUCTION. THIS SECTION WILL BE PLACED IN THE DEED NOTICES FOR EACH LOT TO ALERT EACH PROSPECTIVE HOME BUYER OF THESE PROTECTION MEASURES.

1. WATER CONTROL STRUCTURES, SUCH AS DRAINPIPES, MAY CREATE A TRAP HAZARD TO BLANDING'S TURTLES. TO PREVENT POSSIBLE ENTRAPMENT OF BLANDING'S TURTLES, THE STORM DRAIN GRATES WILL BE DESIGNED WITH THE SMALLEST POSSIBLE GRATE OPENING WITHOUT COMPROMISING SAFETY OR NECESSARY FLOW RATE.
2. ALTHOUGH NONE ARE PROPOSED - BELOW-GROUND SWIMMING POOLS SHOULD BE SURROUNDED BY FENCING TO EXCLUDE TURTLES OF ALL AGE CLASSES. FINE GRADE WIRE CLOTH (1/4 INCH SQUARE MESH SIZE) AT THE BASE OF A PICKET FENCE OR A 10" - 12" HIGH BARRIER CAN BE USED TO PREVENT TURTLES FROM TRAVELING INTO THE HAZARD AREA.
3. ALTHOUGH NONE ARE PROPOSED - WINDOW WELLS SHOULD HAVE GRATES (1 INCH SQUARE MESH SIZE OR LESS) OR 10" - 12" HIGH VERTICAL BARRIERS SURROUNDING THE WELL.
4. ANY EXCAVATION WORK DONE BETWEEN APRIL 14TH AND OCTOBER 16TH SHOULD BE BACKFILLED ON THE SAME DAY AS EXCAVATED OR RAMPS (30 DEGREE ANGLE MAXIMUM) SHOULD BE PLACED INSIDE THE EXCAVATION TO ENABLE TURTLES TO CLIMB OUT.
5. MONITORING THE PROPER PLACEMENT AND MAINTENANCE OF TEMPORARY RESTRICTIVE BARRIERS. PROVIDING OVERSIGHT DURING THE DISTURBANCE PHASE OF THE PROJECT.



NESTING AREA CREATION - 12 ACRES:

1. ALL NESTING AREA MANAGEMENT ACTIVITIES WILL OCCUR BETWEEN OCTOBER 16 AND APRIL 14.
2. ALL VEGETATION WITHIN THE NESTING AREA WILL BE CUT CLOSE TO THE GROUND AND ALL MATERIAL REMOVED. THIS AREA IS NOT WOODED SO NO TREE STUMPS SHOULD OCCUR.
3. SUITABLE GRAVEL/SANDY SOIL MATERIAL WILL BE ROTO-TILLED TO A MINIMUM DEPTH OF 12 INCHES.
4. THE BARE SOIL AREAS WILL BE SEEDED WITH A NORTHEAST UPLAND NATIVE WARM SEASON GRASS MIX. THIS MIX SHOULD PRODUCE ONLY SPARSE COVER WITH BARE SOIL AREAS REMAINING. SEEDING WILL OCCUR EVERY YEAR AFTER ROTO-TILLING IS COMPLETED.

NESTING AREA MAINTENANCE:

1. FOUR (4) ACRES OF NESTING HABITAT ON A ROTATING BASIS WILL BE PERIODICALLY (EVERY 3 YEARS) ROTO-TILLED BETWEEN OCTOBER 16TH AND APRIL 14TH (FOR A TOTAL OF SIX YEARS) TO MANAGE THIS HABITAT FOR OPTIMAL TURTLE NESTING. MOWING WILL OCCUR IN THE NESTING AREA(S) THAT ARE ROTO-TILLED DURING THE ROTATION. MOWING WILL ONLY OCCUR BETWEEN THE PERIOD FROM OCTOBER 16TH TO APRIL 14TH.

BLANDING'S TURTLES CONSTRUCTION SEQUENCING NOTES:

NESTING AREA:
- REMOVE TREES AND INSTALL TEMPORARY TURTLE BARRIER AS PER THIS SITE PLAN UNDER THE SUPERVISION OF MICHAEL NOWICKI. INSTALL EROSION CONTROL MEASURES. MAINTENANCE OF THE TURTLE BARRIER WILL BE COMPLETED BY CONSTRUCTION PERSONNEL AT THE DIRECTION OF MICHAEL NOWICKI. THE BARRIER WILL BE CHECKED TWO TIMES PER WEEK AND IMMEDIATELY AFTER STORM EVENTS TO DETERMINE IF STILL EFFECTIVE.
- CLEAR TREES AND GRUB NESTING AREA. INSTALL THREE-FOOT-TALL ROCK WALL ALONG THE BOUNDARY BETWEEN THE NESTING AREA AND LOTS 1 THROUGH 8. CONSTRUCTION EQUIPMENT WILL INCLUDE EXCAVATOR, WOOD CHIPPER, BRUSH HOG.
- CONSTRUCTION OF NESTING AREA AND ACCESS TO NESTING AREA. CONSTRUCTION EQUIPMENT WILL INCLUDE EXCAVATOR. LAND DISTURBANCE INCLUDES:
  A. INSTALLATION OF NESTING AREA AND SEEDING AREA.
  B. STABILIZATION OF ALL LAND DISTURBANCES.

INDIVIDUAL HOME CONSTRUCTION:
- CONSTRUCTION OF ALL OF THE LOTS FOR FULL BUILD OUT IS ANTICIPATED TO TAKE 1 YEAR INCLUDING ALL TEMPORARY AND PERMANENT IMPACTS FROM CONSTRUCTION AND NESTING AREA DEVELOPMENT. GRADE LIMITS FOR EACH INDIVIDUAL HOME. CONSTRUCTION EQUIPMENT WILL INCLUDE BULLDOZERS, EXCAVATORS, LOADERS, AND DUMP TRUCKS. A SEPARATE BLANDING'S TURTLE EXCLUSION BARRIER WILL BE UTILIZED FOR EACH LOT DEVELOPMENT AS PER THE PLAN WHERE CONSTRUCTION TAKES PLACE BETWEEN APRIL 14 AND OCTOBER 16 AND INSTALLATION OF THE BARRIER WILL BE SUPERVISED BY A LICENSED BLANDING'S TURTLE MONITOR. THE TEMPORARY BARRIER WILL BE MADE OF FINE MESH (1/4 INCH SQUARE) FILTER FABRIC OR NON-WOVEN GEOTEXTILE, WILL BE A MINIMUM OF 42 INCHES HIGH, WILL BE ANCHORED INTO THE GROUND WITH REBAR PLACED ON THE DISTURBANCE SIDE OF THE FENCE 6-8 FEET APART, AND SECURED AT THE BASE WITH A MINIMUM OF 8 INCHES OF FENCE COVERED WITH SOIL MATERIAL. THE TEMPORARY BARRIER FENCE WILL BE INSPECTED DAILY BY A LICENSED BLANDING'S TURTLE MONITOR AND AFTER STORM EVENTS. MAINTENANCE OF THE FENCE WILL BE COMPLETED BY THE SITE CONTRACTOR UNDER THE SUPERVISION OF THE TURTLE MONITOR.

- WORK THAT OCCURS BETWEEN OCTOBER 16TH AND APRIL 14TH DOES NOT REQUIRE ANY TURTLE PROTECTION MEASURES. THE DEVELOPMENT OF HOMES WILL DEPEND ON MARKET DEMAND AND TIMING OF CONSTRUCTION COULD VARY. LAND DISTURBANCE INCLUDES:
- THE CREATION OF THE TURTLE NESTING HABITAT SHALL BE THE FIRST ACTION UNDERTAKEN AFTER PLANNING BOARD APPROVAL. THE FOLLOWING SEQUENCE SHALL FOLLOW:

a. TREE REMOVAL AND INSTALLATION OF TEMPORARY TURTLE BARRIER AS PER PLAN.
b. GRADING AND EXCAVATION FOR BUILDING FOOTPRINTS, SITE DRAINAGE (INDIVIDUAL RAIN GARDENS, BIO-RETENTION BASINS ON LOTS 8 AND 11, AND GENERAL HOME DEVELOPMENT.
c. STOCKPILING OF TOPSOIL FOR EACH BUILDING SITE.
d. INSTALLATION OF DRIVEWAYS.
e. BUILDING FOOTING AND FINISHED FLOOR SLAB.
f. FINAL GRADING.
g. CONSTRUCTION OF SEPTIC SYSTEMS.

NOTES REGARDING INDIANA BATS:

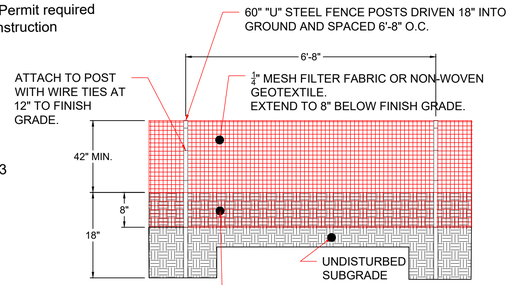
1. TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 16 AND MARCH 31 TO PROTECT INDIANA BATS.

MAINTENANCE AND INSPECTION FOR TURTLE BARRIER FENCING:

ALL PROPOSED TURTLE BARRIER FENCING SHALL BE INSPECTED DAILY (DURING ACTIVE SEASON) AND MAINTAINED IF NEEDED. IF ANY TURTLE BARRIER FENCE IS DAMAGED BEYOND REPAIR, IT SHALL BE REPLACED WITH NEW FENCING. NYSDEC WILL REQUIRE A LOG OF DAILY INSPECTIONS FOR THE BARRIER FENCE. THE BARRIER FENCE SHALL BE MAINTAINED OR REPAIRED ACCORDINGLY IF NEEDED.

IT IS THE INTENT OF THE SITE OWNER (THE "GRANTOR") TO ALLOW THE NYSDEC (THE "GRANTEE") ACCESS TO THE SITE SHOWN HEREON AND IDENTIFIED AS TOWN OF WAPPINGER TAX MAP 135689-6459-03-110235. THE ACCESS TO THE SITE IS IN THE INTEREST OF DOCUMENTING AND PRESERVING THE BLANDING'S TURTLES HABITAT ON THE SITE. THE ACCESS IS INTENDED FOR THE NYSDEC BUREAU OF WILDLIFE STAFF IN THE EVENT FUNDING IS MADE AVAILABLE FOR NYSDEC STAFF TO CONDUCT SUCH A HABITAT STUDY ON THE SITE.

THE GRANTOR AND GRANTEE UNDERSTAND THAT SUCH STUDY MAY INVOLVE MINOR SITE ALTERATIONS ON THE SITE SUCH AS TRAP SETTINGS, CLEARING OF UNDERSTORY FOR NESTING SITES, ETC. ANY ALTERATIONS SHALL BE PERFORMED ONLY AFTER NYSDEC APPROVAL OF THE PROGRAM AND ONLY UNDER THE SUPERVISION AND WITH THE APPROVAL OF THE GRANTOR AND/OR THE GRANTEE. IN FURTHERANCE OF THIS AND WITH PRIOR NOTICE OF AT LEAST 10 DAYS TO THE GRANTOR OF ANY SITE VISIT, THE GRANTOR HEREBY GRANTS PERMISSION TO THE NYSDEC AND ITS AUTHORIZED CONSULTANTS ACCESS TO THE SITE UNDER THE SUPERVISION OF THE GRANTOR AND/OR THE GRANTEE FOR THE PURPOSE OF PERFORMING THE ACTIVITIES.



NOTES:

1. INSTALLATION SHALL BE OVERSEEN BY THE LICENSED BLANDING'S TURTLE MONITOR, OR IF NOT OVERSEEN, CHECKED AND APPROVED BEFORE THE START OF THE ACTIVE SEASON (APRIL 15TH).
2. REINFORCEMENT BARS ANCHORED INTO THE GROUND WILL BE PLACED ON THE DISTURBANCE SIDE OF BARRIER.
3. REFER TO BLANDING'S TURTLES ON THIS SHEET.
4. TEMPORARY TURTLE BARRIER TO BE ¼" MESH FILTER FABRIC OR NON-WOVEN GEOTEXTILE. IT IS TO BE 42" MINIMUM ABOVE FINISH GRADE AND EXTEND 8" BELOW FINISH GRADE.
5. 60" "U" STEEL FENCE POSTS ARE TO BE DRIVEN 18" INTO THE GROUND AND SPACED 6'-8" ON CENTER.
6. MESH TO BE ATTACHED TO FENCE POSTS WITH WIRE TIES AT 12" TO FINISH GRADE.
7. ALL FENCING IS NOT PROPOSED TO COMPLETELY ENCLOSE THE WORK SITES BUT END AT THE ROAD.
8. THE FENCE WILL BE DESIGNED TO DEFLECT THE TURTLES OUT OF THE ROADWAYS AT THE END OF THE FENCE VIA A U-SHAPED TURNAROUND FEATURE.
9. THE CONDITION OF THE FENCE SHALL BE INSPECTED DAILY BY A LICENSED BLANDING'S TURTLE MONITOR DAILY DURING THE ACTIVE SEASON (APRIL 14TH - OCTOBER 16TH). MAINTENANCE OF THE FENCE WILL BE COMPLETED BY THE SITE CONTRACTOR UNDER THE SUPERVISION OF THE TURTLE MONITOR.

1 TEMPORARY TURTLE BARRIER FENCE DETAIL
NOT TO SCALE

GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 200 ft.

LEGEND

- EXISTING PROPERTY LINE
- 200 EXISTING 10 FT CONTOUR LINE
- 198 EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- W EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- PROPOSED HOUSE
- 100 YEAR FLOOD PLAIN
- PROPOSED OWTS
- PROPOSED 100% EXPANSION AREA
- W PROPOSED WELL
- PROPOSED TURTLE BARRIER FENCING

SITE NOTES

1. PROPERTY BOUNDARY, TOPOGRAPHY AND EXISTING UTILITY SHOWN HEREON ARE BASED ON A SURVEY PREPARED BY BRIAN W. FRANKS LAND SURVEYOR, PC. DATED FEBRUARY 28, 2013.
2. ALL UTILITY LINES AND RELATED EQUIPMENT FOR PROVIDING POWER AND COMMUNICATION SERVICES SHALL BE INSTALLED UNDERGROUND.
3. EXISTING BARN TO BE RAZED BY APPLICANT PRIOR TO SIGNING OF PLAT.
4. SIGHT DISTANCE ANALYSES SHALL BE PERFORMED BEFORE A BUILDING PERMIT IS ISSUED FOR EACH LOT.
5. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
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7. THE APPLICANT SHALL PLACE LARGE STONES AS A MEANS OF DELINEATING THE 100' WETLAND BUFFER ON LOT 9, LOT 10 AND LOT 11 TO ENSURE THAT ANY PROPOSED LIMITS OF DISTURBANCE STAY OUTSIDE THE WETLAND BUFFER.

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Revisions	Mark A. Day, PE
June 24, 2020	
May 7, 2020	
September 17, 2019	
August 19, 2019	
July 18, 2019	
July 11, 2019	
September 24, 2018	
July 17, 2018	
Project No. 2018.107	License No. 069646

STATE OF NEW YORK · MARK A. DAY · LICENSED PROFESSIONAL ENGINEER · No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Blanding's Turtle Protection Plan

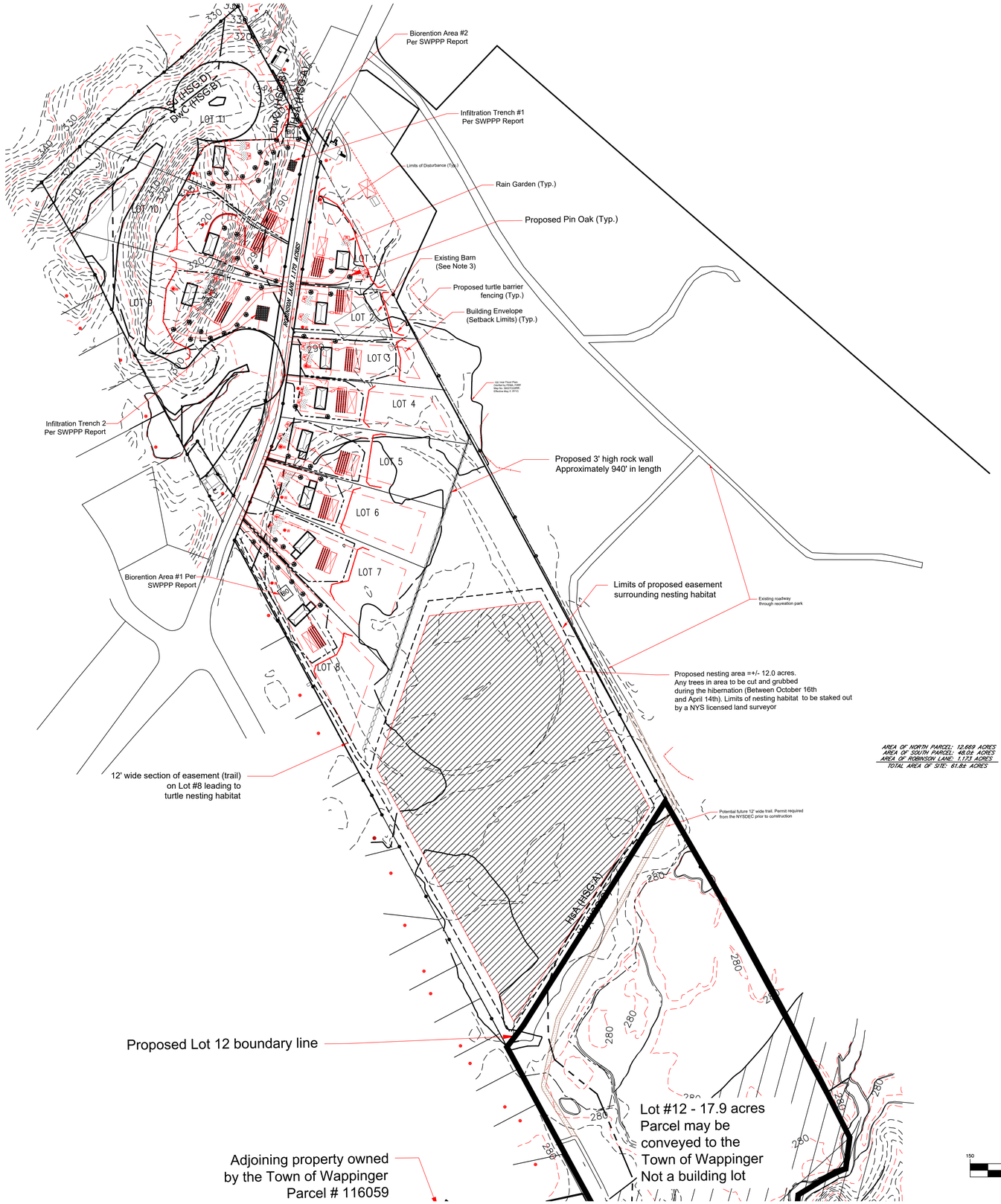
SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	DEC.1
DATE	CHECKED BY	4 of 25
06-14-18	DJL	

	Area of disturbance within 330 feet of wetlands (acres):
Lot 1	0.004
Lot 2	0.00
Lot 3	0.00
Lot 4	0.00
Lot 5	0.00
Lot 6	0.00
Lot 7	0.00
Lot 8	0.00
Lot 9	0.81
Lot 10	0.66
Lot 11	1.24
Total =	**2.714 ac.**

Lot Number:	Area of disturbance for each lot (acres)
Lot 1	0.69
Lot 2	0.76
Lot 3	0.68
Lot 4	0.46
Lot 5	0.63
Lot 6	0.54
Lot 7	0.80
Lot 8	0.79
Lot 9	1.23
Lot 10	1.01
Lot 11	1.41
Total =	**9.00**

Existing Soils on site	Area of impact for soil type (acres):
DwC - Dutchess complex, rolling, rocky	3.26
HsA - Hoosic gravelly loam, nearly level	5.71
Su - Sun silt loam	0.02
Wy - Wayland silt loam	0.00
Total =	**9.0 ac.**

	Area of buiding envelopes (acres)
Lot 1	0.26
Lot 2	0.34
Lot 3	0.53
Lot 4	0.74
Lot 5	0.54
Lot 6	0.93
Lot 7	1.17
Lot 8	1.18
Lot 9	1.46
Lot 10	0.93
Lot 11	1.44



AREA OF NORTH PARCEL: 12.669 ACRES
AREA OF SOUTH PARCEL: 48.04 ACRES
AREA OF ROBINSON LANE: 1.173 ACRES
TOTAL AREA OF SITE: 61.86 ACRES

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch = 150 ft.

LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10 FT CONTOUR LINE
- EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- PROPOSED HOUSE
- 100 YEAR FLOOD PLAIN
- PROPOSED OWTS
- PROPOSED 100% EXPANSION AREA
- PROPOSED WELL
- PROPOSED TURTLE BARRIER FENCING
- PROPOSED LIMITS OF DISTURBANCE

SITE NOTES

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STATE OF NEW YORK · MARK A. DAY · 069646 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Impact Assessment Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	DEC.2
DATE	CHECKED BY	5 of 25
06-14-18	DJL	

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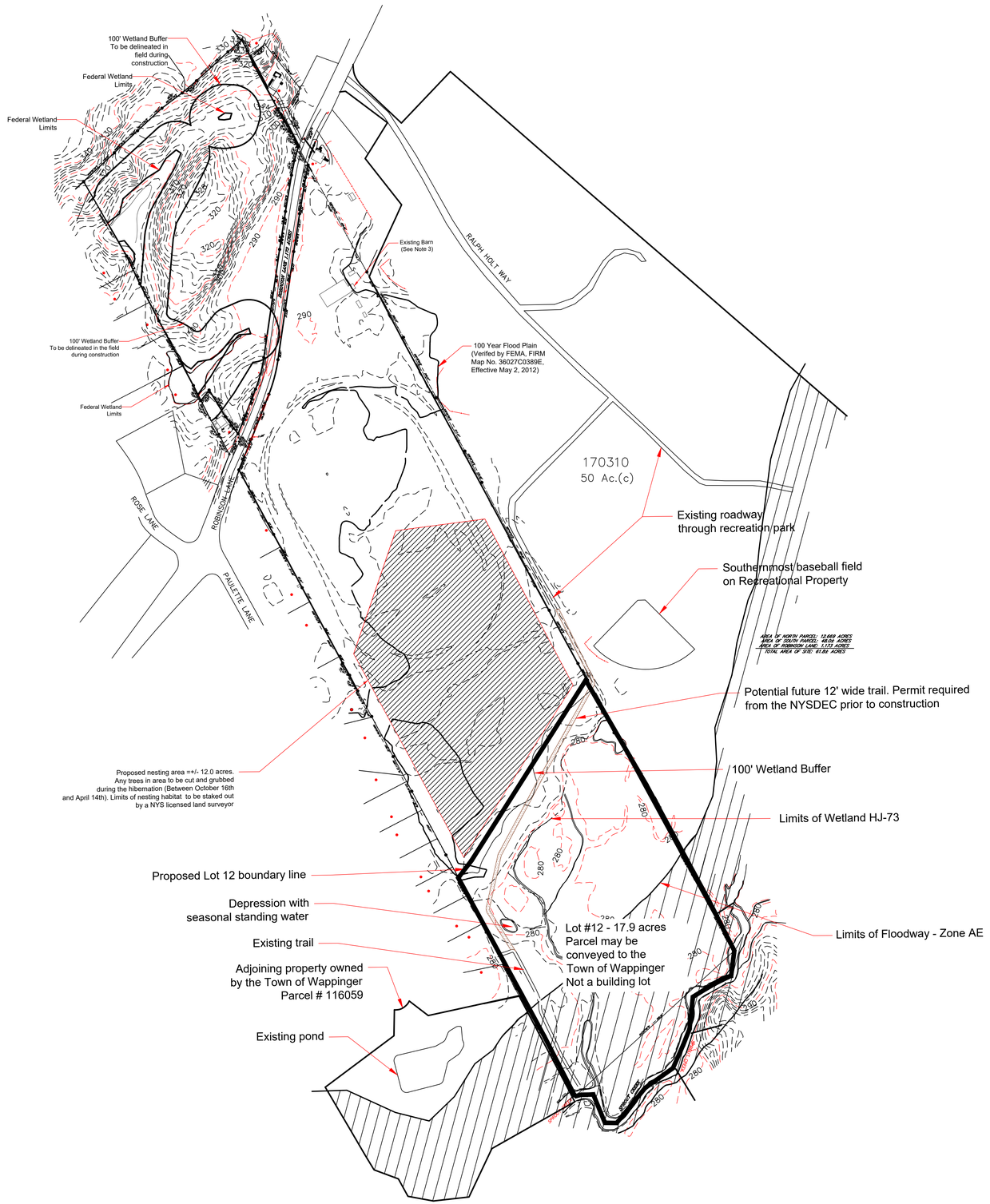

LEGEND

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- STONE WALL REMAINS
- WIRE FENCE REMAINS
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- OVERHEAD SERVICE WIRES
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- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- 100 YEAR FLOOD PLAIN
- PROPOSED LOT LINE

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GRAPHIC SCALE

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(IN FEET)
1 inch = 200 ft.

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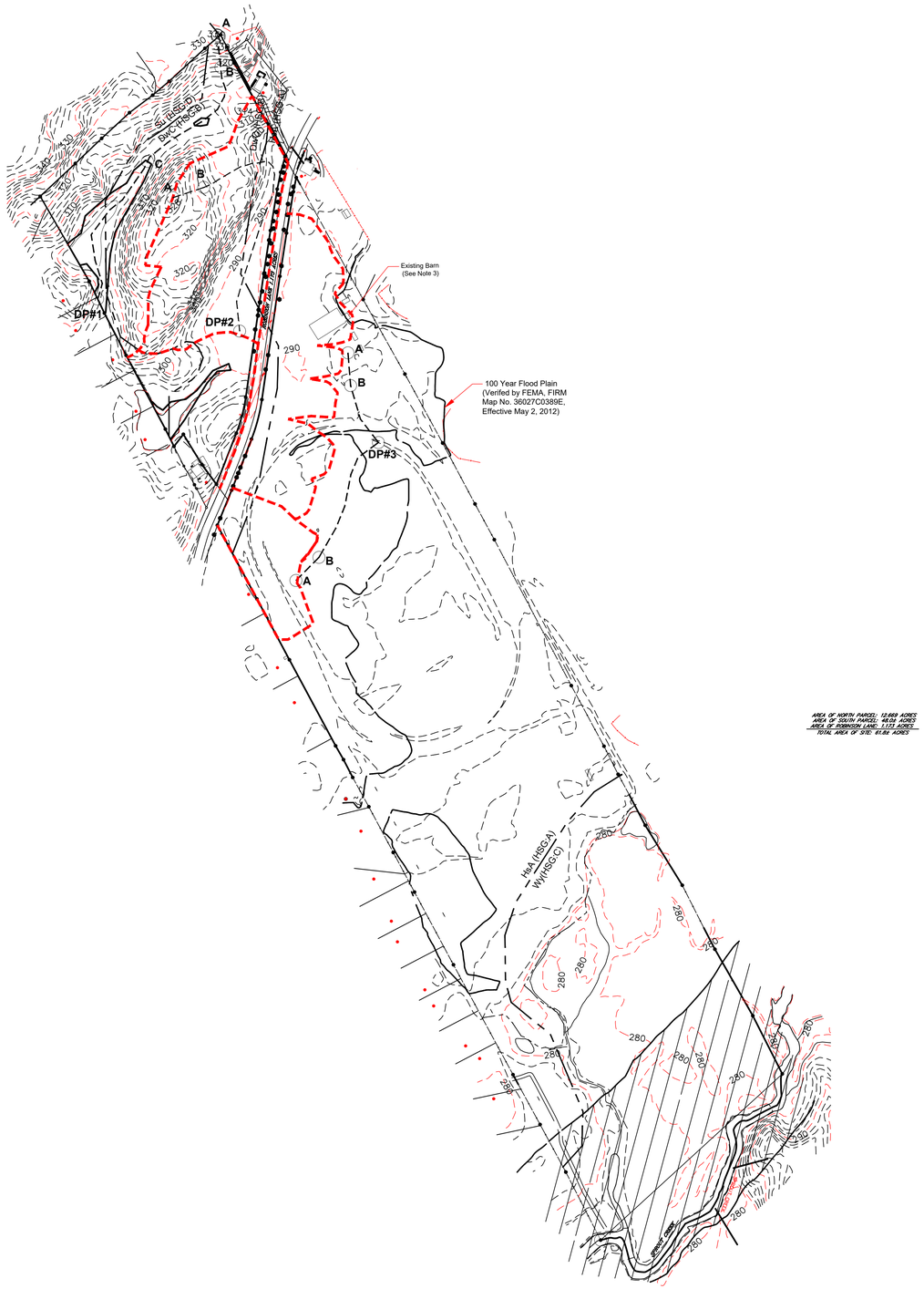
PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Trail Location Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	TR.1
DATE 06-14-18	CHECKED BY DJL	6 of 25



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- PROPOSED WELL
- DRAINAGE PATH
- LIMITS OF DRAINAGE AREA
- LIMITS OF SOIL TYPES
- EXISTING STREET TREE

SITE NOTES

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GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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Revisions	Mark A. Day, PE
June 24, 2020	
May 7, 2020	
September 17, 2019	
August 19, 2019	
July 18, 2019	
July 11, 2019	
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Project No. 2018.107	License No. 069646

STATE OF NEW YORK · MARK A. DAY · No. 069646 · LICENSED PROFESSIONAL ENGINEER

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Pre-Development Hydrology
Site Plan

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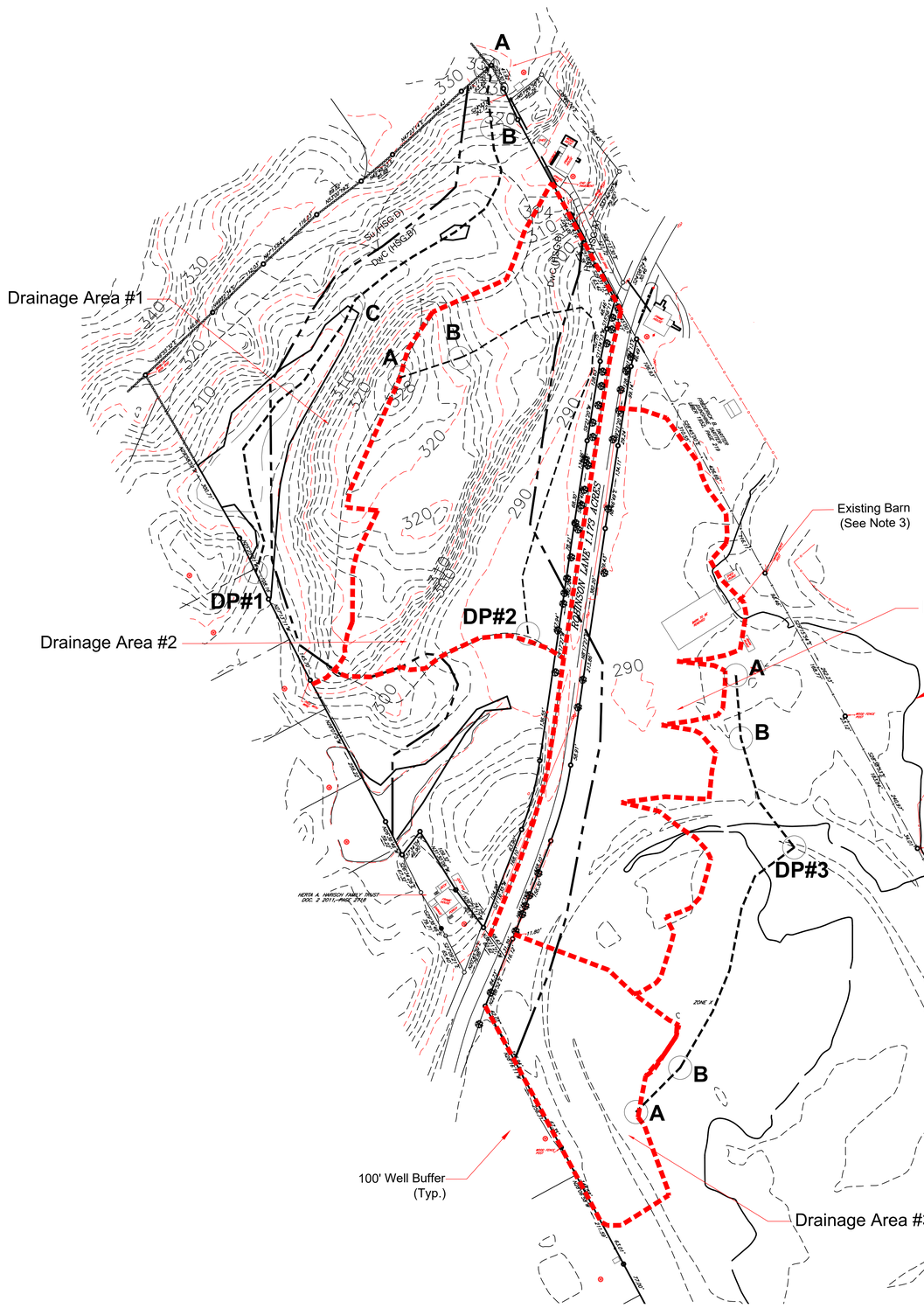
DATE	CHECKED BY	7 of 25
06-14-18	DJL	



LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10 FT CONTOUR LINE
- EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- PROPOSED HOUSE
- 100 YEAR FLOOD PLAIN
- PROPOSED OWTS
- PROPOSED 100% EXPANSION AREA
- WETLAND
- 100' WETLAND BUFFER
- PROPOSED WELL

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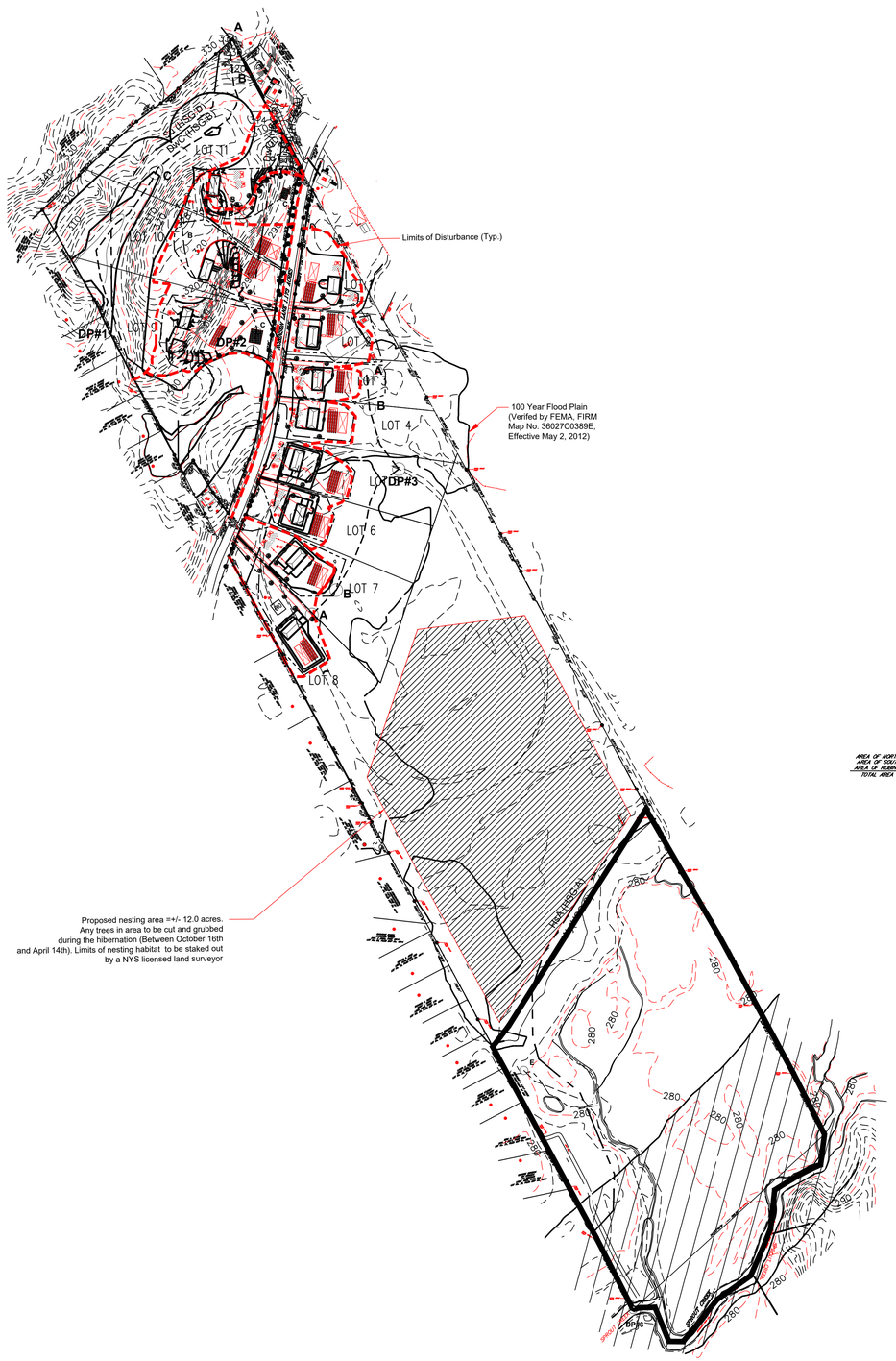
Lot Number:	Area of disturbance for each lot (acres)
Lot 1	0.70
Lot 2	0.76
Lot 3	0.68
Lot 4	0.46
Lot 5	0.63
Lot 6	0.54
Lot 7	0.80
Lot 8	0.79
Lot 9	1.23
Lot 10	1.01
Lot 11	1.36
Total =	**8.96**



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DRAWING
Post-Development Hydrology Site Plan

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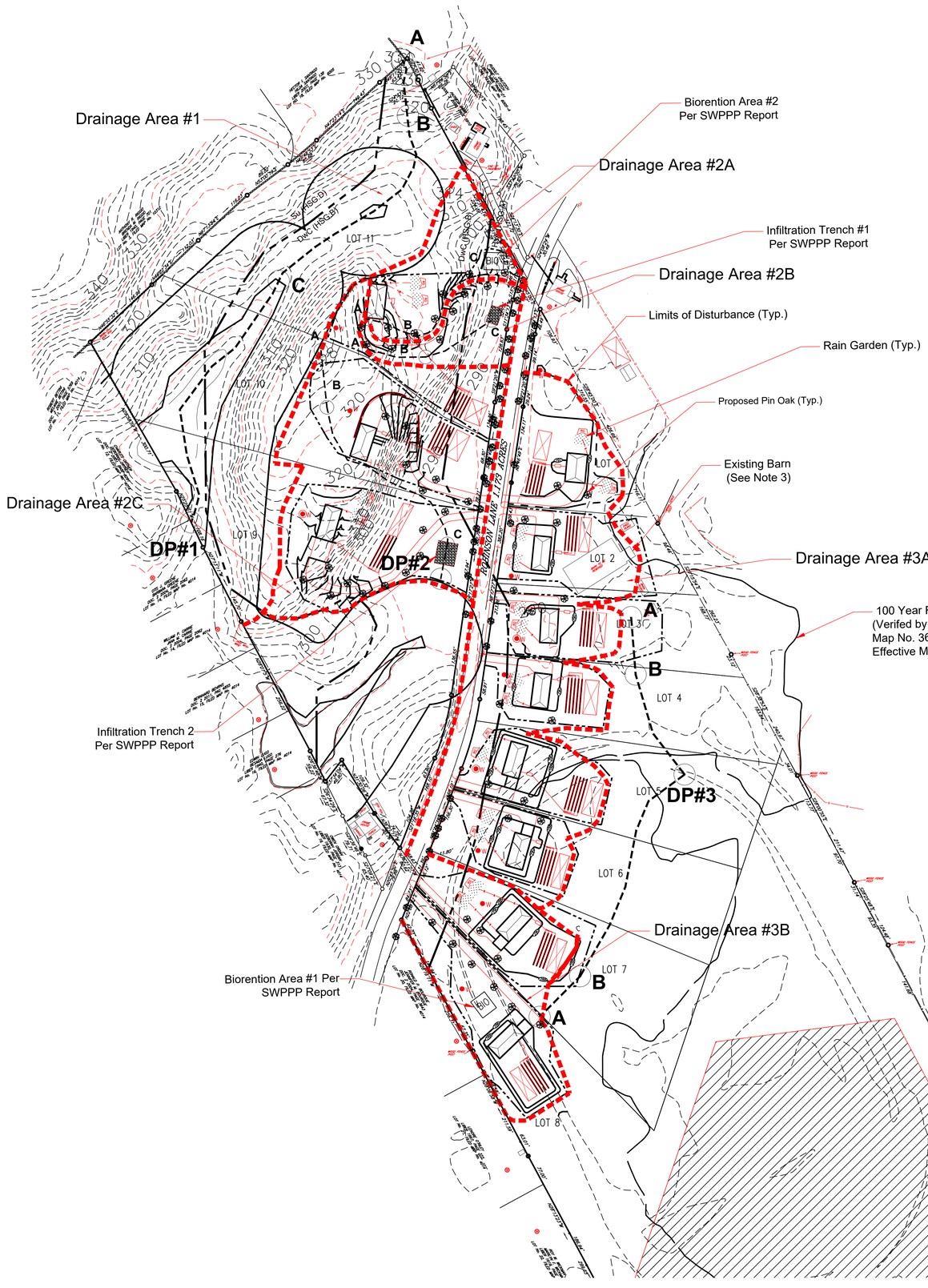

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- PROPOSED BIORETENTION AREA
- PROPOSED RAINGARDEN
- PROPOSED INFILTRATION TRENCH
- PROPOSED PIN OAK

SPECIAL NOTE

1. PLEASE REFER TO DETAILS 5 AND 6 ON SHEET HYD.5 FOR A PLAN AND SECTION VIEW DETAIL FOR INFILTRATION TRENCHES 1 AND 2.
2. PLEASE REFER TO DETAIL 4 ON SHEET HYD.5 FOR A SECTION DETAIL FOR BIORETENTION AREAS 1 AND 2.
3. PLEASE REFER TO DETAILS 1,2 AND 3 ON SHEET HYD.5 FOR RAINGARDEN DETAILS.
4. PIN OAKS ARE PROPOSED ON EACH LOT AS A MEANS OF MEETING NYSDEC SWPPP REQUIREMENTS. THEY ARE AN INTEGRAL PART OF OF THE STORMWATER POLLUTION PREVENTION PLAN AND MUST BE PLANTED PRIOR TO A CERTIFICATE OF OCCUPANCY. PLEASE REFER TO SHEET LS.1 FOR QUANTITY AND PLANTING SCHEDULE.

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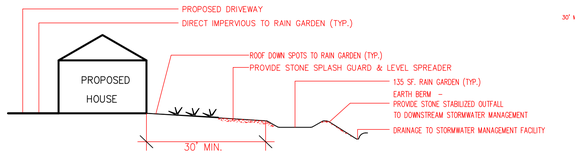
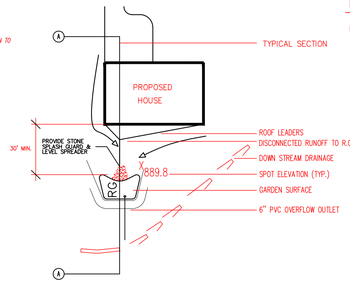
RAIN GARDEN – SEQUENCE OF CONSTRUCTION

1. INSTALL SEDIMENT CONTROL DEVICES.
2. GRADE SITE TO ELEVATIONS SHOWN ON PLAN. IF APPLICABLE, CONSTRUCT CURB OPENINGS AND/OR REMOVE AND REPLACE EXISTING CONCRETE. CURB OPENINGS SHOULD BE BLOCKED OR OTHER MEASURES TAKEN TO PROHIBIT DRAINAGE FROM ENTERING CONSTRUCTION AREA.
3. STABILIZE GRADING WITHIN LIMIT OF DISTURBANCE EXCEPT FOR THE BIORETENTION AREA.
   EXCAVATE BIORETENTION AREA TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACES, TAKING CARE NOT TO COMPACT THE IN-SITU MATERIALS.
4. INSTALL UNDERDRAIN SYSTEM AND OBSERVATION WELLS, IF SPECIFIED.
5. BACKFILL BIORETENTION AREA WITH PLANTING SOIL. WET DOWN THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO ALLOW FOR SETTLEMENT.
6. EXCAVATE OR FILL TO ACHIEVE PROPER DESIGN GRADE, LEAVING SPACE FOR THE UPPER LAYER OF MULCH THAT WILL BRING THE SURFACE TO FINAL GRADE.
7. PLANT VEGETATION, MULCH AND INSTALL EROSION PROTECTION AT ENTRANCE POINTS. REMOVE SEDIMENT CONTROL PRACTICES OR ENTRANCE BLOCKS WITH INSPECTOR AUTHORIZATION.

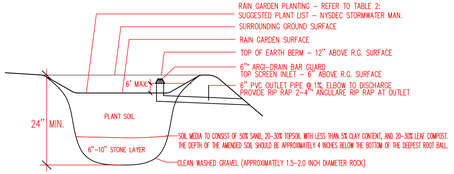


1 TYPICAL RAIN GARDEN SECTION VIEW
NOT TO SCALE

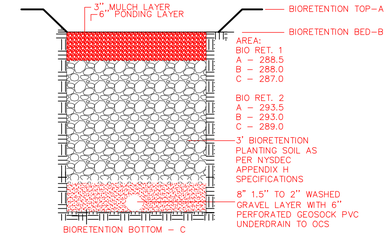


2 TYPICAL RAIN GARDEN PLAN VIEW
NOT TO SCALE

STORMWATER MANAGEMENT PRACTICE	* RESPONSIBLE MAINTENANCE ENTITY	RESPONSIBLE MAINTENANCE CONTACT INFO	INSPECTION FREQUENCY	MAINTENANCE REQUIRED	GENERAL NOTES
INDIVIDUAL RAIN GARDEN	HOMEOWNERS & DISTRICT	AS PER DEED OF RECORD ONFILE WITH THE DUTCHESS COUNTY CLERKS OFFICE.	WATERING, WEEDING, DEBRIS REMOVAL, AND REPLANTING AS REQUIRED WHEN REQUIRED TO MAINTAIN THE HEALTH OF THE GARDEN.	GENERAL INSPECTION – WATERING, WEEDING, & REMOVE DEBRIS, REPLANT AS REQUIRED	RAIN GARDENS ARE INTENDED TO BE RELATIVELY LOW MAINTENANCE. WEEDING AND WATERING ARE ESSENTIAL THE FIRST YEAR, AND CAN BE MINIMIZED WITH THE USE OF A WEED FREE MULCH LAYER. RAIN GARDENS SHOULD BE TREATED AS A COMPONENT OF THE LANDSCAPING, WITH ROUTINE MAINTENANCE PROVIDED BY THE HOMEOWNER, INCLUDING THE OCCASIONAL REPLACEMENT OF PLANTS, MULCHING, WEEDING AND THINNING TO MAINTAIN THE DESIRED APPEARANCE.



3 TYPICAL RAIN GARDEN SOIL SECTION VIEW
NOT TO SCALE



4 BIORETENTION SECTION DETAIL
NOT TO SCALE

RAIN GARDEN NOTES: (AS PER NYSDEC STORMWATER MANUAL)

1. RAIN GARDENS SHOULD BE LOCATED WITHIN APPROXIMATELY 30 FEET OF THE DOWNSPOUT OR IMPERVIOUS AREA TREATED.
2. ROOFTOP CONVEYANCE TO THE RAIN GARDEN IS THROUGH ROOF LEADERS DIRECTED TO THE AREA, WITH STONE OR SPLASH BLOCKS PLACED AT THE POINT OF DISCHARGE INTO THE RAIN GARDEN TO PREVENT EROSION.
3. RUNOFF FROM DRIVEWAYS AND OTHER PAVED SURFACES SHOULD BE DIRECTED TO THE RAIN GARDEN AT A NON-EROSIVE RATE THROUGH SHALLOW SWALES, OR ALLOWED TO SHEET FLOW ACROSS SHORT DISTANCES.
4. PONDING DEPTH ABOVE THE RAIN GARDEN BED SHOULD NOT EXCEED 6 INCHES. THE RECOMMENDED MAXIMUM PONDING DEPTH OF 6 INCHES PROVIDES SURFACE STORAGE OF STORMWATER RUNOFF, BUT IS NOT TOO DEEP TO AFFECT PLANT HEALTH, SAFETY, OR CREATE AN ENVIRONMENT OF STAGNANT CONDITIONS. ON PERFECTLY FLAT SITES, THIS DEPTH IS ACHIEVED THROUGH EXCAVATION OF THE RAIN GARDEN AND BACKFILLING TO THE APPROPRIATE LEVEL; ON SLOPING SITES, THIS DEPTH CAN BE ACHIEVED WITH THE USE OF A BERM ON THE DOWNSLOPE EDGE, AND EXCAVATION/BACKFILL TO THE REQUIRED LEVEL.
5. SURFACE AREA IS DEPENDENT UPON STORAGE VOLUME REQUIREMENTS BUT SHOULD NOT EXCEED A MAXIMUM LOADING RATIO OF 5:1 (DRAINAGE AREA TO INFILTRATION AREA, WHERE DRAINAGE AREA IS ASSUMED TO BE 100% IMPERVIOUS; TO THE EXTENT THAT THE DRAINAGE AREA IS NOT 100% IMPERVIOUS, THE LOADING RATIO MAY BE MODIFIED)
6. A LENGTH TO WIDTH RATIO OF 2:1, WITH THE LONG AXIS PERPENDICULAR TO THE SLOPE AND FLOW PATH IS RECOMMENDED.

SOIL
THE COMPOSITION OF THE SOIL MEDIA SHOULD CONSIST OF 50% SAND, 20–30% TOPSOIL WITH LESS THAN 5% CLAY CONTENT, AND 20–30% LEAF COMPOST. THE DEPTH OF THE AMENDED SOIL SHOULD BE APPROXIMATELY 4 INCHES BELOW THE BOTTOM OF THE DEEPEST ROOT BALL.

CONSTRUCTION
RAIN GARDENS SHOULD INITIALLY BE DUG OUT TO A 24"DEPTH, THEN BACKFILLED WITH A 6 – 10 INCH LAYER OF CLEAN WASHED GRAVEL (APPROXIMATELY 1.5–2.0 INCH DIAMETER ROCK), AND FILLED BACK TO THE RAIN GARDEN BED DEPTH WITH A CERTIFIED SOIL MIX.

ENVIRONMENTAL/LANDSCAPING ELEMENTS
THE RAIN GARDEN SYSTEM RELIES ON A SUCCESSFUL NATIVE PLANT COMMUNITY TO STABILIZE THE PONDING AREA, PROMOTE INFILTRATION, AND UPTAKE POLLUTANTS. TO DO THAT, PLANT SPECIES NEED TO BE SELECTED THAT ARE ADAPTABLE TO THE WET/DRY CONDITIONS THAT WILL BE PRESENT. THE GOAL OF PLANTING THE RAIN GARDEN IS TO ESTABLISH AN ATTRACTIVE PLANTING BED WITH A MIX OF UPLAND AND WETLAND NATIVE SHRUBS, GRASSES AND HERBACEOUS PLANT MATERIAL ARRANGED IN A NATURAL CONFIGURATION STARTING FROM THE MORE UPLAND SPECIES AT THE OUTER MOST ZONE OF THE SYSTEM TO MORE WETLAND SPECIES AT THE INNER MOST ZONE. PLANTS SHOULD BE CONTAINER GROWN WITH A WELL ESTABLISHED ROOT SYSTEM, PLANTED ON ONE FOOT CENTERS. TABLE 2 PROVIDES A REPRESENTATIVE LIST OF POSSIBLE PLANT SELECTIONS. RAIN GARDENS SHOULD NOT BE SEEDED AS THIS TAKES TOO LONG TO ESTABLISH THE DESIRED ROOT SYSTEM, AND SEED MAY BE FLOATED OUT WITH RAIN EVENTS. THE SAME LIMITATION IS TRUE FOR PLUGS. SHREDDED HARDWOOD MULCH SHOULD BE APPLIED UP TO 2" TO HELP KEEP SOIL IN PLACE.

MAINTENANCE
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MAINTENANCE SCHEDULE FOR PROPOSED STORMWATER MANAGEMENT PRACTICES:

RAINGARDENS:

- Rain gardens are intended to be relatively low maintenance. However, these practices may be subject to sedimentation and invasive plant species which could create maintenance problems. If the recharge ability is lost by accumulation of fine sediment, mosquito breeding may occur. Adequate arrangements for long term maintenance of these systems and updated inventories of their location are essential for the long-term performance of these practices. Rain gardens should be treated as a component of the landscaping, with routine maintenance specified through a legally binding maintenance agreement. Routine maintenance may include the occasional replacement of plants, mulching, weeding and thinning to maintain the desired appearance. Weeding and watering are essential the first year, and can be minimized with the use of a weed-free free mulch layer. Studies have found that rain gardens, especially when native plants are used, are well accepted if they appear orderly and well maintained. Homeowners and landscapers must be educated regarding the purpose and maintenance requirements of the rain garden, so the desirable aspects of ponded water are recognized and maintained. Select lower growing species that stay upright. Keep plants pruned if they start to get "leggy" and floppy. Cut off old flower heads after a plant is done blooming. Keeping the garden weeded is one of the most important tasks, especially in the first couple of years while the native plants are establishing their root systems. Once the rain garden has matured, the garden area should be free of bare areas except where stepping stones are located. Inspect for sediment accumulations or heavy organic matter where runoff enters the garden and remove as necessary. The top few inches of planting soil should be removed and replaced when water ponds for more than 48 hours. Blockages may cause diversion of flow around the garden. If the garden overflow device is an earthen berm or lip, check for erosion and repair as soon as possible. If this continues, a harder armoring of stone may be necessary. Make sure all appropriate elevations have been maintained, no settlement has occurred and no low spots have been created.

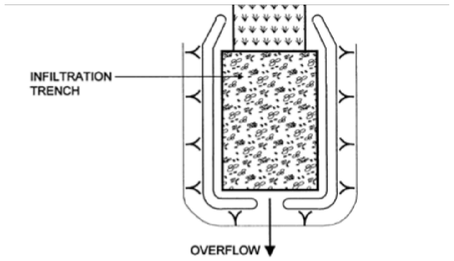
BIORETENTION AREAS:

- Inspect and repair/replace treatment area components
- Stone drop (at least 6") provided at the inlet
- Remulch annually

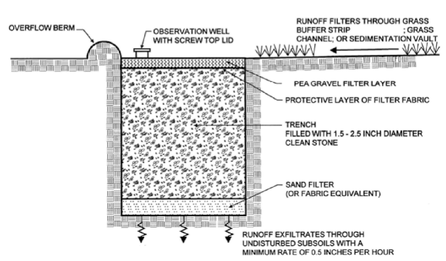
INFILTRATION TRENCHES:

Maintenance responsibility for an infiltration system shall be vested with a responsible authority by means of a legally binding and enforceable instrument that is executed as a condition of plan approval. Remove sediment/gross solids from the infiltration surface annually, to ensure the maximum surface area for treatment.

- The vegetative cover needs to be regularly maintained. Grass cover may be mowed and bare areas should be re-seeded.
- Disc, aerate or scrape the basin bottom to restore original cross section and infiltration rate every one to five years.



5 TYPICAL INFILTRATION TRENCH PLAN VIEW
NOT TO SCALE



6 TYPICAL INFILTRATION TRENCH SECTION VIEW
NOT TO SCALE

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSONS TO ALTER THESE PLANS, SPECIFICATIONS, OR REPORTS IN AN WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

	Mark A. Day, PE
June 24, 2020	
May 7, 2020	
September 17, 2019	
August 19, 2019	
July 18, 2019	
July 11, 2019	
September 24, 2018	
Revisions July 17, 2018	
Project No. 2018.107	License No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Stormwater Management Practice Details

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	HYD.5
DATE	CHECKED BY	11 of 25
06-14-18	DJL	

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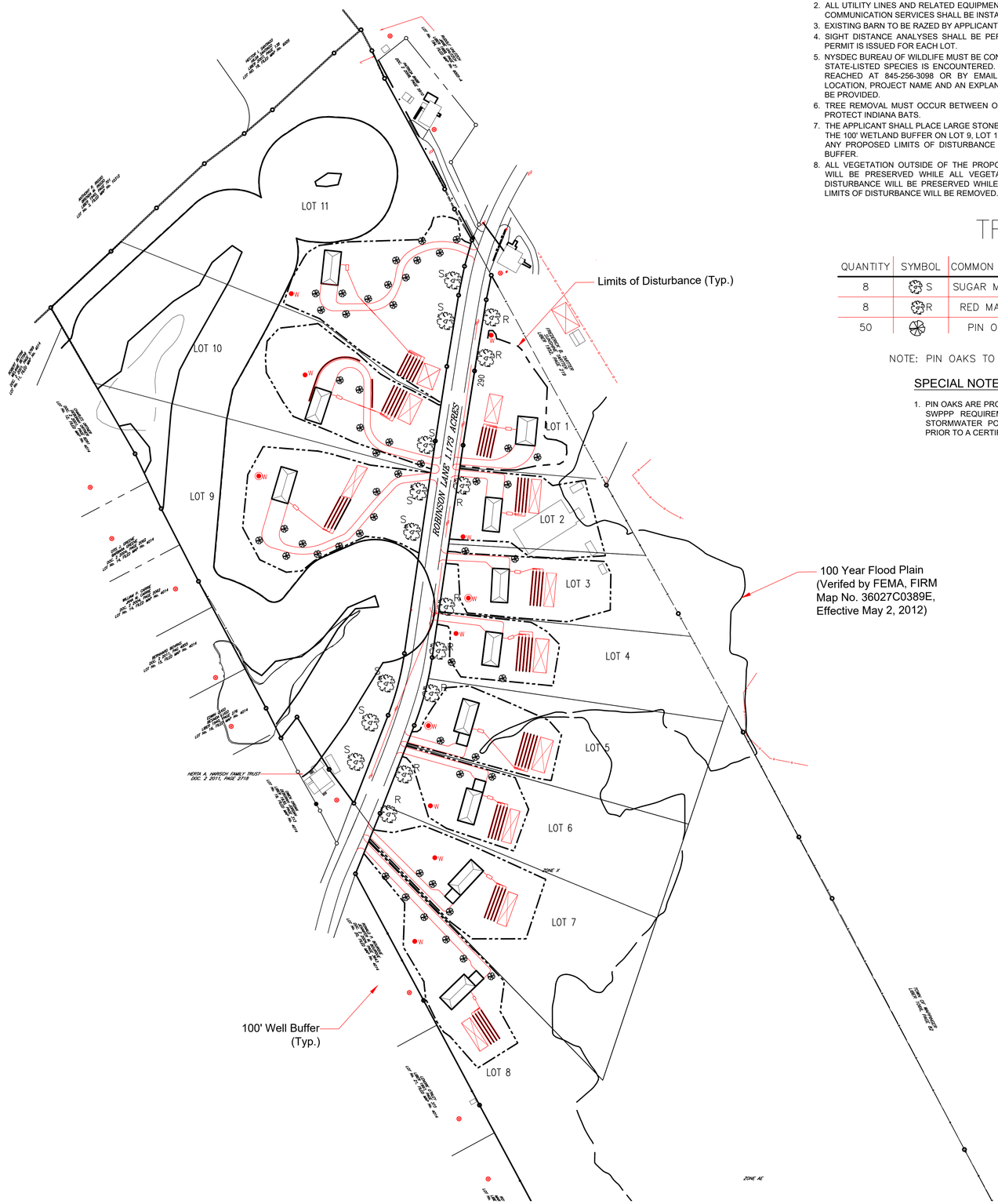
Lot Number:	Area of disturbance for each lot (acres)
Lot 1	0.69
Lot 2	0.76
Lot 3	0.68
Lot 4	0.46
Lot 5	0.63
Lot 6	0.54
Lot 7	0.80
Lot 8	0.79
Lot 9	1.23
Lot 10	1.01
Lot 11	1.41
Total =	**9.00**



SITE NOTES

1. PROPERTY BOUNDARY, TOPOGRAPHY AND EXISTING UTILITY SHOWN HEREON ARE BASED ON A SURVEY PREPARED BY BRIAN W. FRANKS LAND SURVEYOR, PC. DATED FEBRUARY 28, 2013.
2. ALL UTILITY LINES AND RELATED EQUIPMENT FOR PROVIDING POWER AND COMMUNICATION SERVICES SHALL BE INSTALLED UNDERGROUND.
3. EXISTING BARN TO BE RAZED BY APPLICANT PRIOR TO SIGNING OF PLAT.
4. SIGHT DISTANCE ANALYSES SHALL BE PERFORMED BEFORE A BUILDING PERMIT IS ISSUED FOR EACH LOT.
5. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
6. TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 16 AND MARCH 31 TO PROTECT INDIANA BATS.
7. THE APPLICANT SHALL PLACE LARGE STONES AS A MEANS OF DELINEATING THE 100' WETLAND BUFFER ON LOT 9, LOT 10 AND LOT 11 TO ENSURE THAT ANY PROPOSED LIMITS OF DISTURBANCE STAY OUTSIDE THE WETLAND BUFFER.
8. ALL VEGETATION OUTSIDE OF THE PROPOSED LIMITS OF DISTURBANCE WILL BE PRESERVED WHILE ALL VEGETATION WITHIN THE LIMITS OF DISTURBANCE WILL BE PRESERVED WHILE ALL VEGETATION WITHIN THE LIMITS OF DISTURBANCE WILL BE REMOVED.

LEGEND

- EXISTING PROPERTY LINE
- 200 EXISTING 10 FT CONTOUR LINE
- 198 EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- W EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- PROPOSED HOUSE
- 100 YEAR FLOOD PLAIN
- PROPOSED OWTS
- PROPOSED 100% EXPANSION AREA
- W PROPOSED WELL
- BUILDING ENVELOPES
- EXISTING STREET TREE

TREE PLANTING SCHEDULE

QUANTITY	SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	BALL SIZE	REMARKS
8	S	SUGAR MAPLE	ACER RUBRUM	MIN. 4" CALIPER	32"	NURSERY GROWN, PLANT IN SPRING OF YEAR
8	R	RED MAPLE	ACER SACCHARUM	MIN. 4" CALIPER	32"	NURSERY GROWN, PLANT IN SPRING OF YEAR
50		PIN OAK	QUERCUS PALUSTRIS	MIN. 4" CALIPER	B&B	NURSERY GROWN, PLANT IN SPRING OF YEAR

NOTE: PIN OAKS TO BE DRIVEWAY TREES AND PLANTED IN AN ALTERNATIVE PATTERN.

SPECIAL NOTE

1. PIN OAKS ARE PROPOSED ON EACH LOT AS A MEANS OF MEETING NYSDEC SWPPP REQUIREMENTS. THEY ARE AN INTEGRAL PART OF OF THE STORMWATER POLLUTION PREVENTION PLAN AND MUST BE PLANTED PRIOR TO A CERTIFICATE OF OCCUPANCY.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

1 inch = 100 ft.

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Revisions	
	Mark A. Day, PE
June 24, 2020	
May 7, 2020	
September 17, 2019	
August 19, 2019	
July 18, 2019	
July 11, 2019	
September 24, 2018	
July 17, 2018	
Project No: 2018.107	License No. 069646

STATE OF NEW YORK · MARK A. DAY · LICENSED PROFESSIONAL ENGINEER · No. 069646

M.A. DAY Engineering, PC

Consulting Engineers

3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT: Wappinger Farm Estates

Tax Map: 135689-6459-03-110235
Town of Wappinger — Dutchess County, New York

DRAWING: Landscaping Plan

SCALE	DRAWN BY	DRAWING No.
1" = 100'	DJD	LS.1
DATE	CHECKED BY	12 of 25
06-14-18	DJL	

Z:\2010 AutoCad Dwgs\2018.032 - Robinson Lane Subdivision\CAD Files\Sheet Files\2018032-GI101 (As of 08-03-18).dwg

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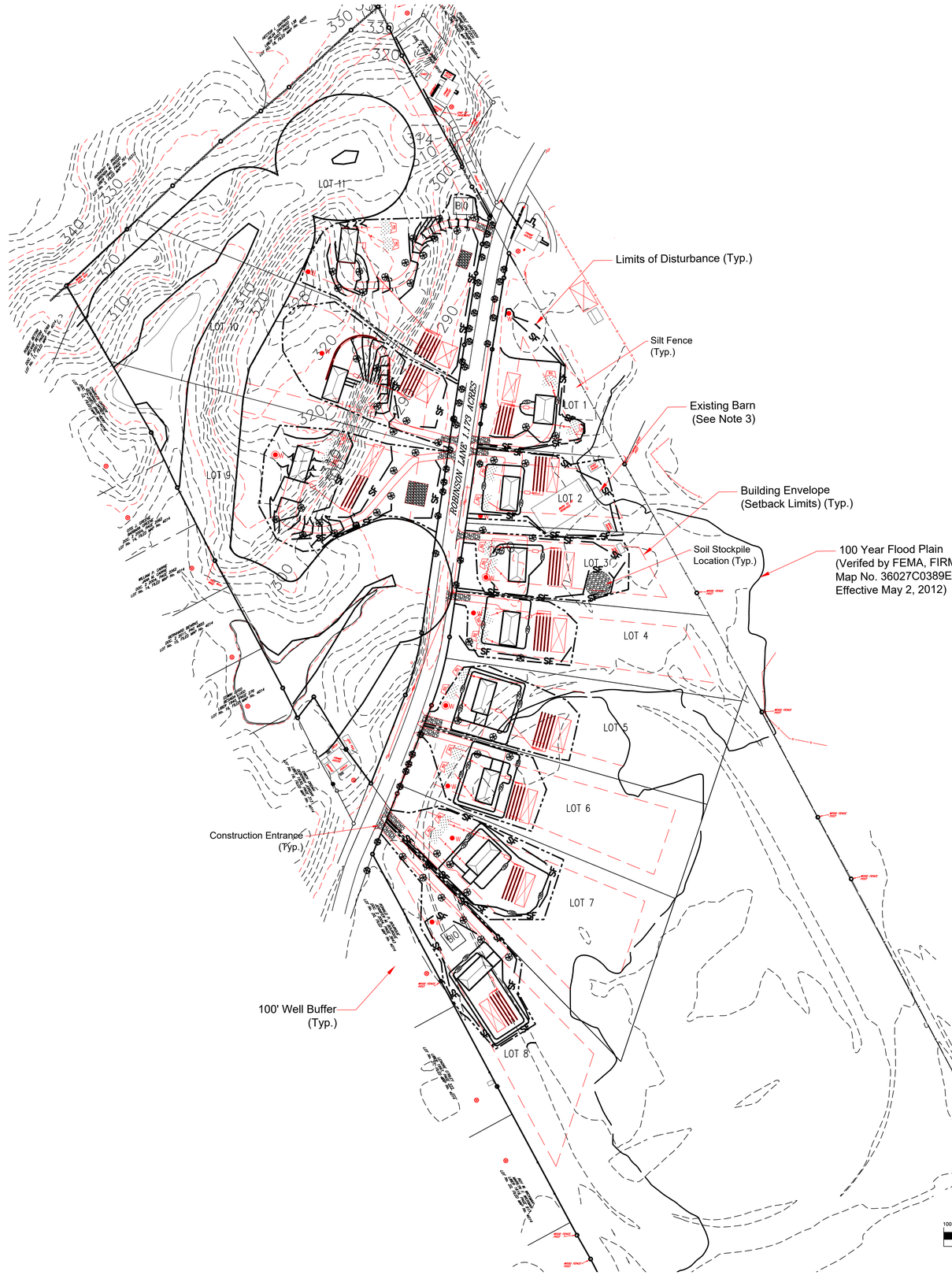

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- PROPOSED 100% EXPANSION AREA
- SF SF PROPOSED SILT FENCE
- LIMITS OF DISTURBANCE
- BUILDING ENVELOPES
- EXISTING STREET TREE

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2. ALL UTILITY LINES AND RELATED EQUIPMENT FOR PROVIDING POWER AND COMMUNICATION SERVICES SHALL BE INSTALLED UNDERGROUND.
3. EXISTING BARN TO BE RAZED BY APPLICANT PRIOR TO SIGNING OF PLAT.
4. THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY.
5. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
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STATE OF NEW YORK MARK A. DAY 069646 LICENSED PROFESSIONAL ENGINEER

M.A. DAY Engineering, PC
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3 Van Wyck
Lane Suite 2
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(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Erosion and Sediment Control Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	CE101
DATE	CHECKED BY	13 of 25
06-14-18	DJL	

SPDES GENERAL PERMIT GP-0-15-002 COMPLIANCE NOTES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING:

1. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL READ AND UNDERSTAND THE CONDITIONS OF THE "NYSDEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES", GP-0-15-002 FOR THIS PROJECT.
2. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL SIGN A COPY OF THE GENERAL PERMIT, GP-0-15-002, CERTIFICATION STATEMENT AS IDENTIFIED IN THE APPENDICES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NECESSARY FOR THE WORK OUTLINED HEREIN.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL STORMWATER POLLUTION PREVENTION MEASURES OUTLINED IN THE SWPPP AND PROJECT PLANS.
5. THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION CONFERENCE WITH THE OWNER'S REPRESENTATIVES AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. THE CONTRACTOR/OWNER SHALL HAVE A QUALIFIED PROFESSIONAL, AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT GP-0-15-002, CONDUCT AN INITIAL SITE ASSESSMENT PRIOR TO CONSTRUCTION FOLLOWING THE COMMENCEMENT OF CONSTRUCTION AT LEAST EVERY 7 CALENDAR DAYS. REFER TO SWPPP FOR INSPECTION GUIDELINES.
7. PRIOR TO COMMENCEMENT OF CONSTRUCTION, A QUALIFIED PROFESSIONAL (HIRED BY CONTRACTOR OR OWNER) SHALL CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES AS DEPICTED ON THE PLANS HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER ONCE THE EROSION AND SEDIMENT CONTROL STRUCTURES HAVE BEEN INSTALLED. REFER TO SWPPP FOR INSPECTION GUIDELINES.
8. THE OWNER/OPERATOR SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY. THE OWNER/CONTRACTOR SHALL POST AT THE SITE, IN A PUBLICLY ACCESSIBLE LOCATION, A SUMMARY OF THE SITE INSPECTION ACTIVITIES ON A MONTHLY BASIS.
9. THE OWNER/OPERATOR SHALL FILE A NOTICE OF INTENT (NOI) WITH THE NYSDEC AND LOCAL GOVERNING AUTHORITY PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES AND A NOTICE OF TERMINATION (NOT) WITH NYSDEC FOLLOWING CONSTRUCTION ACTIVITIES.

1 SPDES GENERAL PERMIT COMPLANCE NOTES
NOT TO SCALE

EROSION AND SEDIMENT CONTROL MEASURES:
1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", AUGUST 2005.
2. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
3. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
4. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
5. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.
6. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
9. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:
A. PERMANENT AND TEMPORARY VEGETATION:
INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

B. STABILIZED CONSTRUCTION ENTRANCE:
INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL, WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

C. SILT FENCE:
INSPECT FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

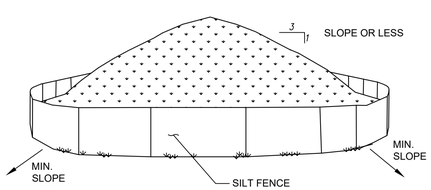
D. SOIL STOCKPILE:
INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

E. INLET PROTECTION:
INSPECT INLET PROTECTION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT AS NECESSARY TO PROVIDE FOR ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.

F. DUST CONTROL:
SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION

PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

5 EROSION & SEDIMENT CONTROL NOTES
NOT TO SCALE



NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.
5. HAYBALES TO BE USED WHERE STOCKPILES ARE LOCATED ON PAVED AREAS.

8 TEMPORARY SOIL STOCKPILE DETAIL
NOT TO SCALE

CONSTRUCTION WASTE MANAGEMENT PLAN

CONSTRUCTION WASTE MANAGEMENT PRACTICES ARE DESIGNED TO MAINTAIN A CLEAN AND ORDERLY WORK ENVIRONMENT. THIS WILL REDUCE THE POTENTIAL FOR SIGNIFICANT MATERIALS TO COME INTO CONTACT WITH STORMWATER. A MAINTENANCE SCHEDULE SHALL BE DEVELOPED FOR THESE AREAS. THE GENERAL CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PRACTICES:

1. MATERIAL RESULTING FROM THE CLEARING AND GRUBBING OPERATION WILL BE STOCKPILED UP SLOPE FROM ADEQUATE SEDIMENTATION CONTROLS.
2. EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR AREAS SHALL BE DESIGNATED AND PROTECTED BY A TEMPORARY PERIMETER BERM.
3. THE USE OF DETERGENTS FOR LARGE SCALE WASHING IS PROHIBITED (I.E., VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.).
4. SPILL PREVENTION AND RESPONSE
A SPILL PREVENTION AND RESPONSE PLAN SHALL BE DEVELOPED FOR THE SITE BY THE GENERAL CONTRACTOR. THE PLAN SHALL DETAIL THE STEPS NEEDED TO BE FOLLOWED IN THE EVENT OF AN ACCIDENTAL SPILL AND SHALL IDENTIFY CONTACT NAMES AND PHONE NUMBERS OF PEOPLE AND AGENCIES THAT MUST BE NOTIFIED.
THE PLAN SHALL INCLUDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS TO BE STORED ON-SITE. ALL WORKERS ON-SITE WILL BE REQUIRED TO BE TRAINED ON SAFE HANDLING AND SPILL PREVENTION PROCEDURES FOR ALL MATERIALS USED DURING CONSTRUCTION. REGULAR TAILGATE SAFETY MEETINGS SHALL BE HELD AND ALL WORKERS THAT ARE EXPECTED ON THE SITE DURING THE WEEK SHALL BE REQUIRED TO ATTEND.
5. MATERIAL STORAGE
CONSTRUCTION MATERIALS SHALL BE STORED IN A DEDICATED STAGING AREA. THE STAGING AREA SHALL BE LOCATED IN AN AREA THAT MINIMIZES THE IMPACTS OF THE CONSTRUCTION MATERIALS EFFECTING STORMWATER QUALITY.
CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIAL MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTENTS MUST BE KEPT IN TRUCKS OR WITHIN STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED AND DISPOSED AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY.
6. TEMPORARY CONCRETE WASHOUT FACILITY
TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED AND/OR REPAIRED AND SEEDED AND MULCHED FOR FINAL STABILIZATION.
7. SOLID WASTE DISPOSAL
NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. THE CONTAINERS WILL BE EMPTIED PERIODICALLY BY A CONTRACT TRASH DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE.
SUBSTANCES THAT HAVE THE POTENTIAL FOR POLLUTING SURFACE AND/OR GROUNDWATER MUST BE CONTROLLED BY WHATEVER MEANS NECESSARY IN ORDER TO ENSURE THAT THEY DO NOT DISCHARGE FROM THE SITE. AS AN EXAMPLE, SPECIAL CARE MUST BE EXERCISED DURING EQUIPMENT FUELING AND SERVICING OPERATIONS. IF A SPILL OCCURS, IT MUST BE CONTAINED AND DISPOSED SO THAT IT WILL NOT FLOW FROM THE SITE OR ENTER GROUNDWATER, EVEN IF THIS REQUIRES REMOVAL, TREATMENT, AND DISPOSAL OF SOIL. IN THIS REGARD, POTENTIALLY POLLUTING SUBSTANCES SHOULD BE HANDLED IN A MANNER CONSISTENT WITH THE IMPACT THEY REPRESENT.
8. WATER SOURCE
NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE. IT CAN BE RETAINED IN THE PONDS UNTIL IT INFILTRATES AND EVAPORATES.

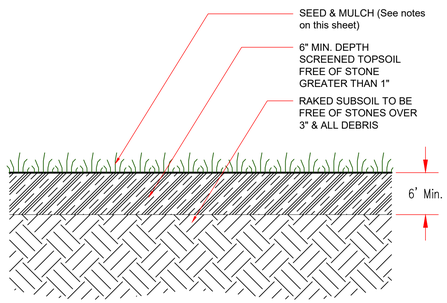
2 CONSTRUCTION WASTE MANAGEMENT PLAN
NOT TO SCALE

PRE-CONSTRUCTION SEQUENCE:
1) NON-DISTURBANCE AREAS SHALL BE MARKED WITH 4-FT ORANGE SNOW FENCING TO TOWN ENGINEER'S SATISFACTION PRIOR TO SITE DISTURBANCE, AND SHALL BE MAINTAINED UNTIL ISSUANCE OF A C.O.
2) HOLD A PRE-CONSTRUCTION MEETING WITH THE OWNER/OPERATOR, SITE ENGINEER, TOWN ENGINEER, TRAINED CONTRACTOR, QUALIFIED EROSION CONTROL INSPECTOR AND BUILDING INSPECTOR. PLACE A COPY OF THE SWPPP REPORT ON SITE ALONG WITH A COPY OF THE INSPECTOR'S LOG BOOK CONTAINING COPIES OF THE WEEKLY INSPECTIONS. (APPLICANT'S EROSION & SEDIMENT CONTROL INSPECTION AGENT SHALL CONDUCT AN INSPECTION ON A WEEKLY BASIS)

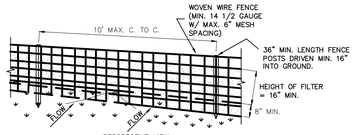
CONSTRUCTION SEQUENCE:

1. INSTALL AND STABILIZE TEMPORARY EROSION & SEDIMENT CONTROL MEASURES AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN.
2. INSTALL TEMPORARY DIVERSION SWALES AS NECESSARY TO DIVERT RUNOFF AWAY FROM CONSTRUCTION.
3. COMMENCE INITIAL DEMOLITION OF EXITING BUILDING AND SITE CLEARING.
4. BEGIN REMAINING SITE GRADING AND ROUGH CUT ROAD TO SUB-GRADE.
5. INSTALL SITE INFRASTRUCTURE INCLUDING PIPE, CATCH BASINS, MANHOLES, ETC.
6. ROUGH GRADE STORM WATER BASIN AND SWALES.
7. INSTALL REMAINING SITE UTILITIES.
8. FINAL GRADING OF SITE .
9. INSTALL ASPHALT BINDER, SIDEWALKS AND CURBING ONCE ALL MAJOR ONSITE WORK IS COMPLETE, AS REQUIRED.
10. INSTALL ON PAVEMENT TEMPORARY INLET PROTECTION ON ALL CATCH BASINS.
11. TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS THAT HAVE OBTAINED FINISHED GRADE ELEVATIONS AS PER THE SOIL RESTORATION DETAIL.
12. SEED AND MULCH ALL DISTURBED AREAS THAT WILL NOT BE RE-DISTURBED FOR AT LEAST 14 DAYS.
13. BEGIN AND COMPLETE INDIVIDUAL LOT SITE WORK AS REQUIRED.
14. FINALIZE BUILDING CONSTRUCTION.
15. PAVE PARKING AREA AND DRIVES WITH FINAL TOP-COAT OF ASPHALT.
16. ONCE ALL MAJOR SITE DISTURBANCE ACTIVITIES HAVE CEASED AND THE SITE HAS ACHIEVED FINAL STABILIZATION, FILE AN N.O.T. (NOTICE OF TERMINATION) WITH NYSDEC.
17. TERMINATE EROSION CONTROL INSPECTIONS.

6 CONSTRUCTION SEQUENCE
NOT TO SCALE



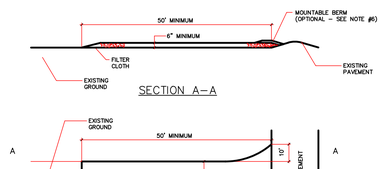
9 SOIL RESTORATION DETAIL
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

3 SILT FENCE DETAIL
NOT TO SCALE



NOTES:
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

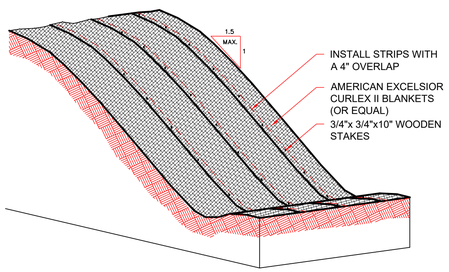
4 ANTI-TRACKING PAD DETAIL
NOT TO SCALE

1. ALL SEDIMENT & EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS & DETAILS. CHANGES, OMISSIONS AND/OR OTHER ALTERATIONS CAN NOT BE MADE TO THESE PLANS WITHOUT THE CONSENT OF THE DESIGN ENGINEER.
2. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THIS DRAWING PRIOR TO BEGINNING ANY CLEARING, GRUBBING AND EARTHWORK.
3. EXPOSED SLOPES AND ALL GRADED AREAS SHALL BE SEEDED WITH THE FOLLOWING GRASS SEED MIX IMMEDIATELY UPON COMPLETION OF ITS CONSTRUCTION, OR IF PLANNED TO BE LEFT UNDISTURBED FOR MORE THAN 21 DAYS. GRASS SEED MIX TO BE APPLIED AT A RATE OF 50 POUNDS PER ACRE IN THE FOLLOWING PROPORTIONS:

KENTUCKY BLUEGRASS	40%
CREEPING RED FESCUE	40%
RYE GRASS	20%

4. GRASS SEED MIX MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, SECTION 610-3.02, METHOD No. 1.
5. SEEDED AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS PER ACRE, OR 90 LBS. PER 1,000 SQUARE FEET, SUCH THAT IT FORMS A CONTINUOUS BLANKET.
6. SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS BY THE OWNER's FIELD REPRESENTATIVE.
7. DUST SHALL BE CONTROLLED BY SPRINKLING OF WATER OR OTHER APPROVED METHODS AS NECESSARY AS DIRECTED BY THE OWNER's FIELD REPRESENTATIVE.
8. CUTS AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTY, NOR DIVERT SURFACE WATER ONTO ADJOINING PROPERTIES.
9. ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF MATERIALS AND TO PREVENT SETTLEMENT.
10. EXCAVATIONS AND FILLS TO BE ROLLED, SEALED AND STABILIZED AT COMPLETION OF EACH DAY's WORK.
11. THE OWNER's FIELD REPRESENTATIVE SHALL INSPECT THE DOWNSTREAM CONDITIONS FOR EVIDENCE OF SEDIMENTATION ON A WEEKLY BASIS AND AFTER RAINSTORMS.
12. AS WARRANTED BY FIELD CONDITIONS, SPECIAL ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES MAY BE ADDED TO THIS PLAN BY THE SITE ENGINEER, TOWN ENGINEER AND HIGHWAY SUPERINTENDENT. ANY REVISIONS TO THIS PLAN MUST BE SUBMITTED TO THE SITE ENGINEER. ANY CHANGES DEEMED NECESSARY TO THIS PLAN SHALL BE DICTATED BY THE SITE ENGINEER AS NECESSARY TO CARRY-OUT THE INTENT OF THIS PLAN.

7 SEEDING & MULCHING NOTES
NOT TO SCALE



NOTES:
1. CONTRACTOR TO INSTALL AMERICAN EXCELSIOR CURLEX II BLANKETS (OR EQUAL) PARALLEL TO THE SLOPE.
2. THERE SHALL BE A 4" OVERLAP OVER CONTIGUOUS STRIPS OF MATTING.
3. INSTALL 3/4" x 3/4" WOODEN STAKES @ 6' INTERVALS. LEAVE A 1" REVEAL.
4. HYDROSEED SHOULD BE APPLIED TO AREA AS SOON AS PRACTICABLE.
5. WATER TO BE APPLIED AS REQUIRED TO GERMINATE GRASS SEED.
6. THE CONTRACTOR TO PERIODICALLY INSPECT MATTING AND MAKE REPAIRS AS NECESSARY. THE MATTING SHALL BE INSPECTED IMMEDIATELY AFTER A STORM EVENT.
7. INSTALL EROSION CONTROL MEASURES AS NECESSARY UPSLOPE OF THE STABILIZED AREA TO ENSURE MINIMAL EROSION THROUGH STABILIZED AREA.
8. CONTRACTOR TO USE 20% OF RYE GRASS IN THE GRASS SEED MIX TO PROMOTE A STABILIZED GRASS MIXTURE.

10 EROSION CONTROL MATTING
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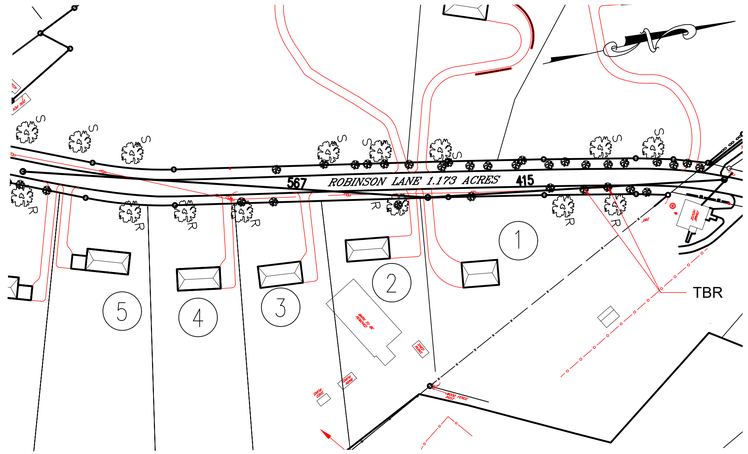
June 24, 2020	
May 7, 2020	
September 17, 2019	
August 19, 2019	
July 18, 2019	
July 11, 2019	
September 24, 2018	
Revisions July 17, 2018	
Project No. 2018.107	License No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

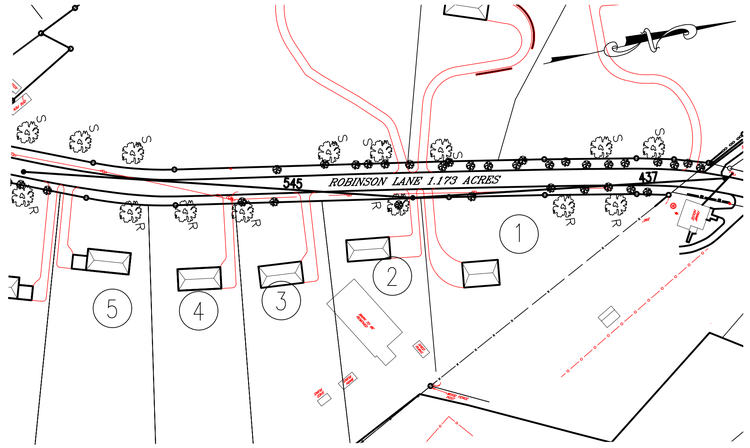
PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Erosion and Sediment Control Details

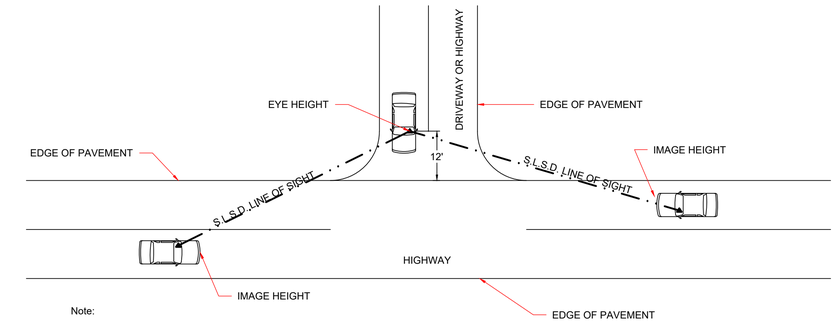
SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	CE501
DATE 06-14-18	CHECKED BY DJL	14 of 25



SIGHT DISTANCE PLAN (LOT 1)
SCALE: 1" = 100'



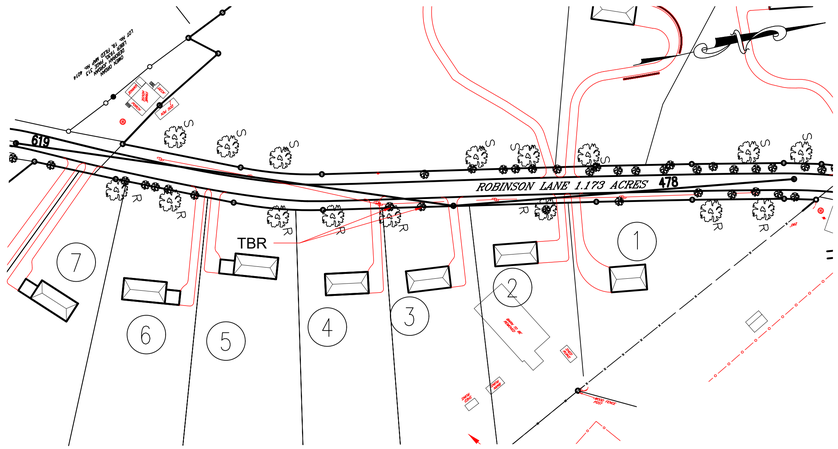
SIGHT DISTANCE PLAN (LOT 2)
SCALE: 1" = 100'



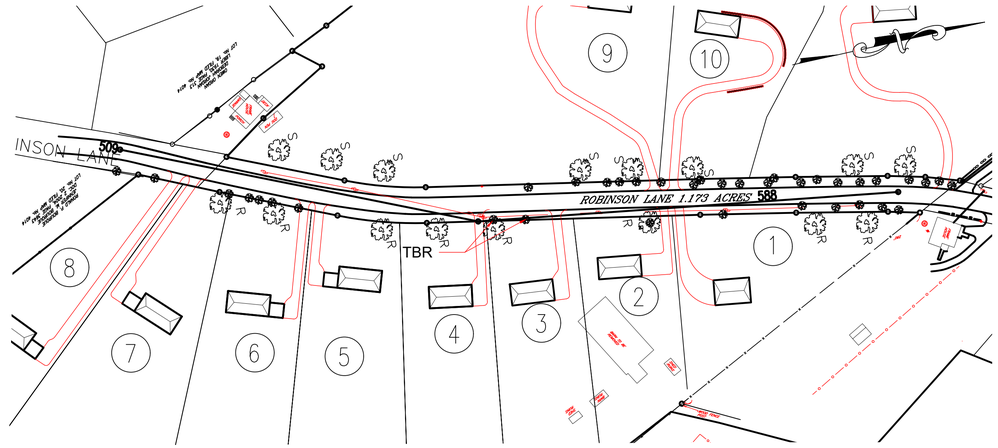
Note:

1. ▲ = DRIVER
2. STOP LINE SIGHT DISTANCE (S.L.S.D.) ARE MEASURED 44" ABOVE FINISHED DRIVEWAY SURFACE OR ROAD SURFACE

2 TYPICAL DRIVEWAY LAYOUT
NOT TO SCALE



SIGHT DISTANCE PLAN (LOT 3)
SCALE: 1" = 100'



SIGHT DISTANCE PLAN (LOT 4)
SCALE: 1" = 100'

SIGHT DISTANCE PLAN (LOT 5)
SCALE: 1" = 100'

SIGHT DISTANCE PLAN (LOT 6)
SCALE: 1" = 100'

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

S. L. S. D.

SPEED (MPH)	LEFT (FT)	RIGHT (FT)
35	420	350
40	490	400

Sight Distances

Driveway	LEFT (FT)	RIGHT (FT)
1	567	415
2	545	437
3	619	478
4	509	588
5	741	661
6	729	666
7	736	361
8	714	382
9	440	537
10	450	515
11	423	525

LEGEND

'TBR' — TREES TO BE REMOVED
EXISTING STREET TREE

SITE NOTES

1. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
2. TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 16 AND MARCH 31 TO PROTECT INDIANA BATS.
3. THE APPLICANT SHALL PLACE LARGE STONES AS A MEANS OF DELINEATING THE 100' WETLAND BUFFER ON LOT 9, LOT 10 AND LOT 11 TO ENSURE THAT ANY PROPOSED LIMITS OF DISTURBANCE STAY OUTSIDE THE WETLAND BUFFER.

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Revisions	
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Project No: 2018.107	License No. 069646

STATE OF NEW YORK · MARK A. DAY · 069646 · LICENSED PROFESSIONAL ENGINEER

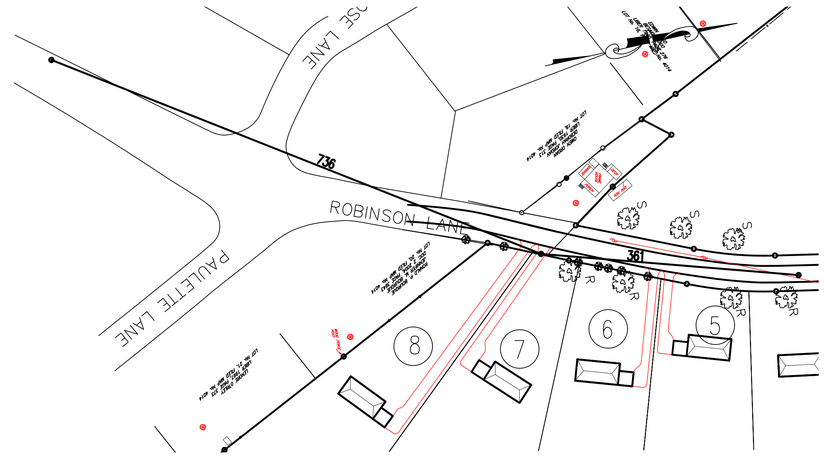
M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger — Dutchess County, New York

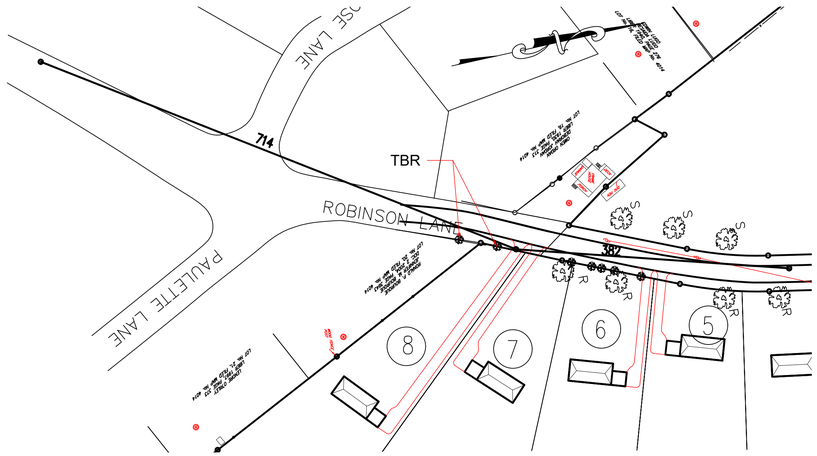
DRAWING
Sight Distance Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	SD101
DATE	CHECKED BY	15 of 25
06-14-18	DJL	

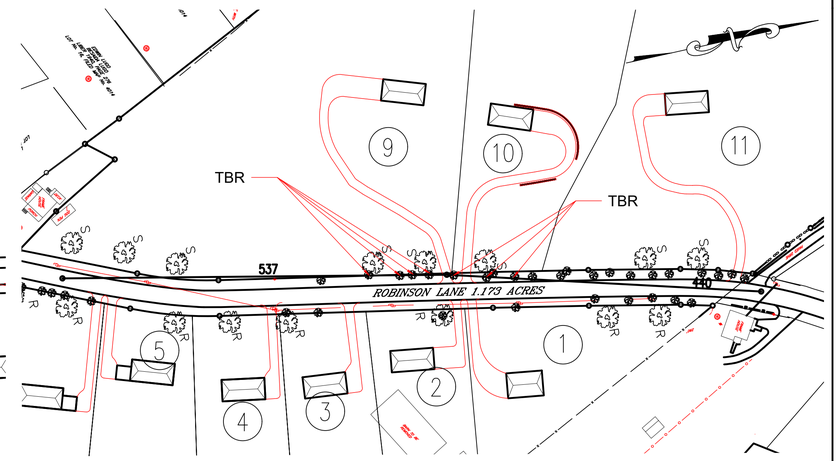
Z:\2010 AutoCad Dwgs\2018.032 - Robinson Lane Subdivision\CAD Files\Sheet Files\2018032-GI101 (As of 08-03-18).dwg



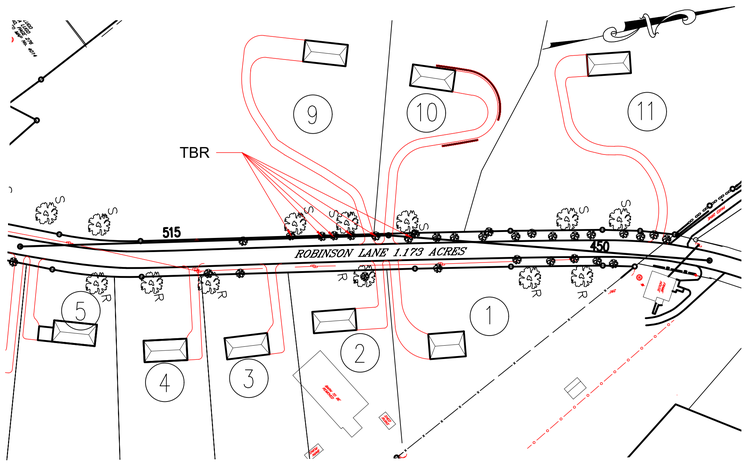
SIGHT DISTANCE PLAN (LOT 7)
SCALE: 1" = 100'



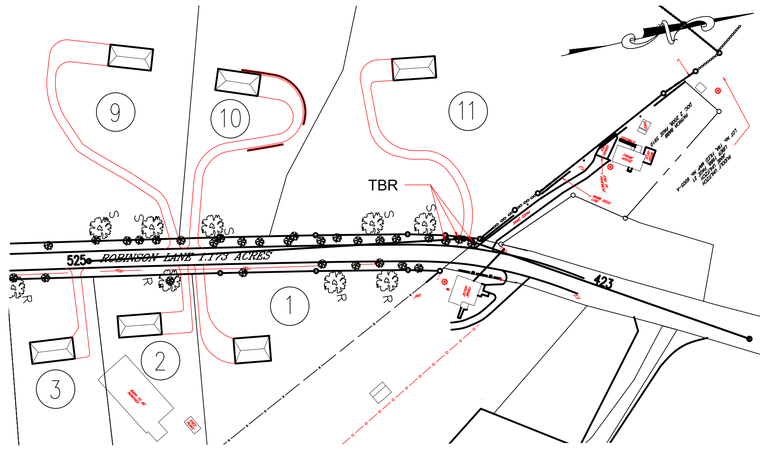
SIGHT DISTANCE PLAN (LOT 8)
SCALE: 1" = 100'



SIGHT DISTANCE PLAN (LOT 9)
SCALE: 1" = 100'



SIGHT DISTANCE PLAN (LOT 10)
SCALE: 1" = 100'



SIGHT DISTANCE PLAN (LOT 11)
SCALE: 1" = 100'

S. L. S. D.

SPEED (MPH)	LEFT (FT)	RIGHT (FT)
35	420	350
40	490	400

Sight Distances

Driveway	LEFT (FT)	RIGHT (FT)
1	567	415
2	545	437
3	619	478
4	509	588
5	741	681
6	729	666
7	736	361
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LEGEND

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EXISTING STREET TREE

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4. REMOVAL OF VEGETATION SHALL BE PERFORMED SO THAT LOTS 7-11 CAN MEET THE MINIMUM REQUIRED SIGHT DISTANCES FOR A 40 MPH SPEED LIMIT.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

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Revisions	Mark A. Day, PE
June 24, 2020	
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M.A. DAY Engineering, PC
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3 Van Wyck
Lane Suite 2
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PROJECT
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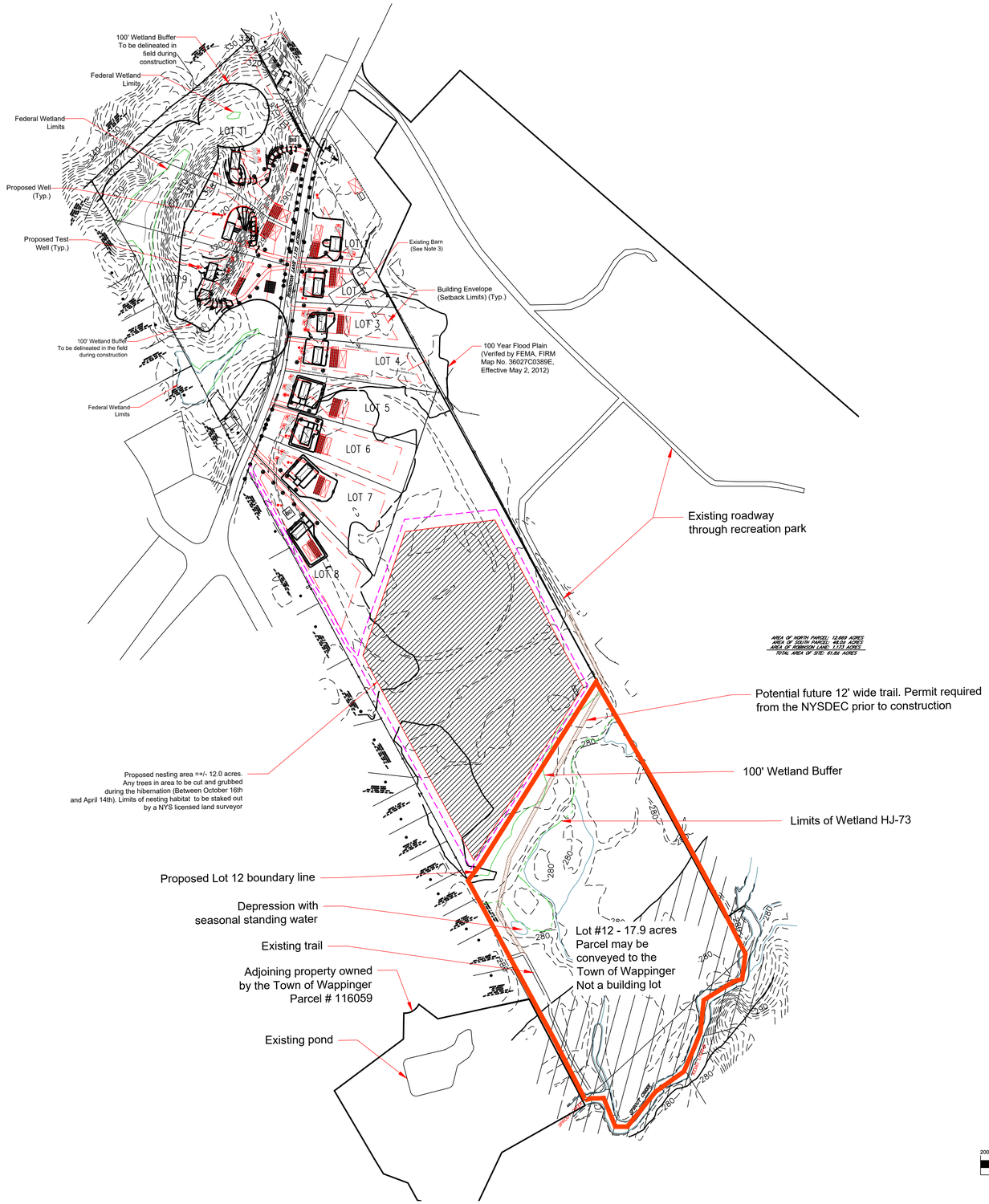
Tax Map: 135689-6459-03-110235
Town of Wappinger — Dutchess County, New York

DRAWING
Sight Distance Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	SD102
DATE	CHECKED BY	16 of 25
06-14-18	DJL	



LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10 FT CONTOUR LINE
- EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- PROPOSED HOUSE
- 100 YEAR FLOOD PLAIN
- PROPOSED OWTS
- PROPOSED 100% EXPANSION AREA
- PROPOSED WELL
- BUILDING ENVELOPES
- EXISTING STREET TREE

SITE NOTES

1. PROPERTY BOUNDARY, TOPOGRAPHY AND EXISTING UTILITY SHOWN HEREON ARE BASED ON A SURVEY PREPARED BY BRIAN W. FRANKS LAND SURVEYOR, PC. DATED FEBRUARY 28, 2013.
2. ALL UTILITY LINES AND RELATED EQUIPMENT FOR PROVIDING POWER AND COMMUNICATION SERVICES SHALL BE INSTALLED UNDERGROUND.
3. EXISTING BARN TO BE RAZED BY APPLICANT PRIOR TO SIGNING OF PLAT.
4. SIGHT DISTANCE ANALYSES SHALL BE PERFORMED BEFORE A BUILDING PERMIT IS ISSUED FOR EACH LOT.
5. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
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8. LOT #12 SHALL NOT BE A BUILDING LOT.

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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M.A. DAY Engineering, PC
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PROJECT
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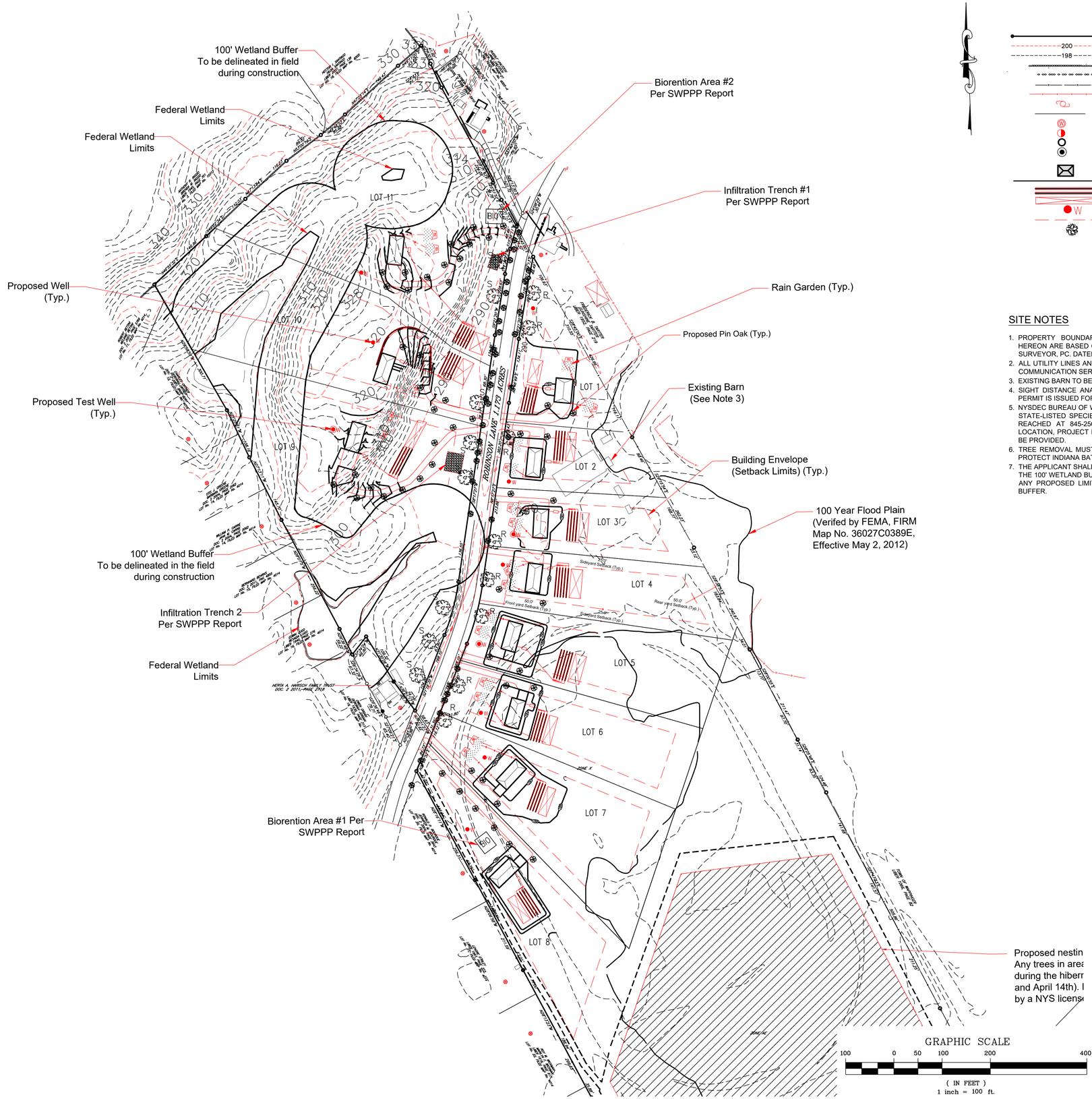
DRAWING
Subdivision Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	CS101
DATE	CHECKED BY	17 of 25
06-14-18	DJL	



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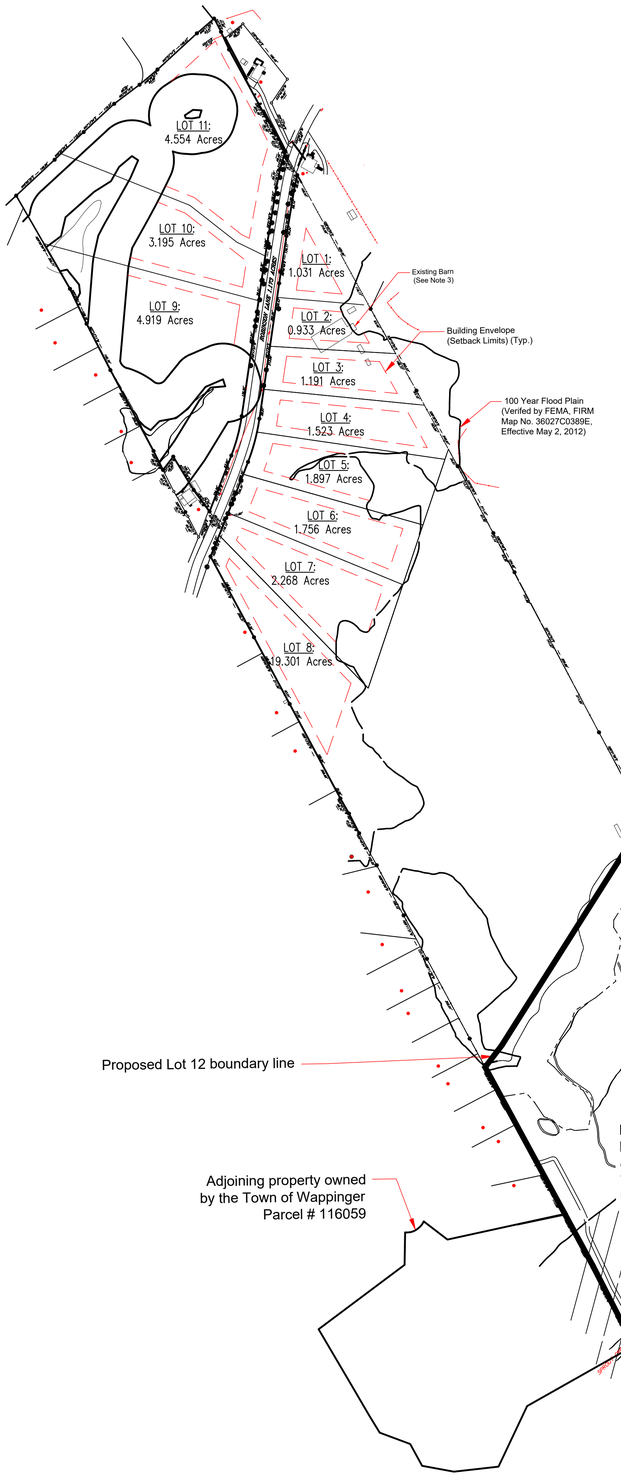
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

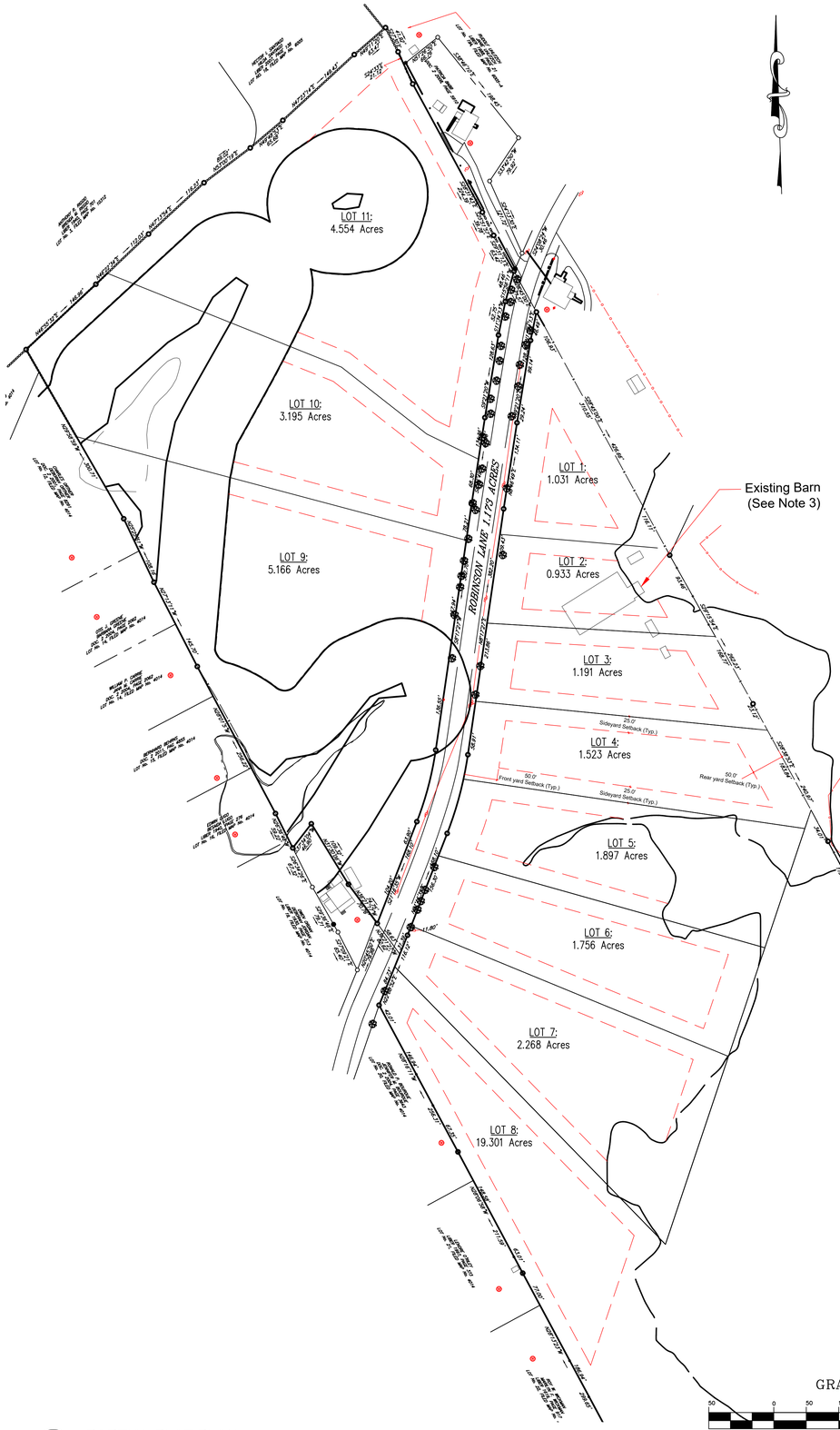
DRAWING
Partial Subdivision Plan

SCALE	DRAWN BY	DRAWING No.
1" = 100'	DJD	CS102
DATE	CHECKED BY	18 of 25
06-14-18	DJL	



1 PLAT PLAN
1" = 200'

1.03 Ac.(s) 110006
1.28 Ac.(s)



2 PARTIAL PLAT PLAN
1" = 100'

LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10 FT CONTOUR LINE (200)
- EXISTING 2 FT CONTOUR LINE (198)
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- 100 YEAR FLOOD PLAIN
- BUILDING ENVELOPES
- EXISTING STREET TREE

SITE NOTES

1. PROPERTY BOUNDARY, TOPOGRAPHY AND EXISTING UTILITY SHOWN HEREON ARE BASED ON A SURVEY PREPARED BY BRIAN W. FRANKS LAND SURVEYOR, PC. DATED FEBRUARY 28, 2013.
2. ALL UTILITY LINES AND RELATED EQUIPMENT FOR PROVIDING POWER AND COMMUNICATION SERVICES SHALL BE INSTALLED UNDERGROUND.
3. EXISTING BARN TO BE RAZED BY APPLICANT PRIOR TO SIGNING OF PLAT.
4. SIGHT DISTANCE ANALYSES SHALL BE PERFORMED BEFORE A BUILDING PERMIT IS ISSUED FOR EACH LOT.
5. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
6. TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 16 AND MARCH 31 TO PROTECT INDIANA BATS.
7. THE APPLICANT SHALL PLACE LARGE STONES AS A MEANS OF DELINEATING THE 100' WETLAND BUFFER ON LOT 9, LOT 10 AND LOT 11 TO ENSURE THAT ANY PROPOSED LIMITS OF DISTURBANCE STAY OUTSIDE THE WETLAND BUFFER.
8. LOT 12 IS TO BE CONVEYED TO THE TOWN OF WAPPINGER AND WILL NOT BE A BUILDING LOT.

Surveyor's Seal and Signature

Brian Franks

DATE

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Revisions	Mark A. Day, PE
June 24, 2020	
May 7, 2020	
September 17, 2019	
August 19, 2019	
July 18, 2019	
July 11, 2019	
September 24, 2018	
July 17, 2018	
Project No. 2018.107	License No. 069646

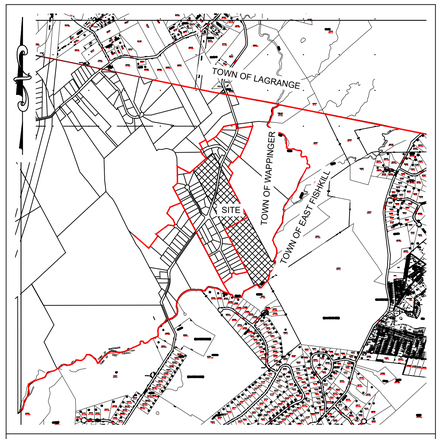
M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Plat Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	PP101
DATE	CHECKED BY	19 of 25
06-14-18	DJL	

Z:\2010 AutoCad Dwgs\2018.032 - Robinson Lane Subdivision\CAD Files\Sheet Files\2018032-GI101 (As of 08-03-18).dwg



LOCATION MAP SCALE: 1" = 2000'

WATER TESTING NOTES

1. ADVISORY: ALTHOUGH INFORMATION HAS BEEN SUBMITTED AND/OR TEST WELLS HAVE BEEN DRILLED TO AID IN DEMONSTRATING THE ADEQUACY (QUALITY AND QUANTITY) OF THE WATER SUPPLY, THIS DOES NOT CONSTITUTE A GUARANTEE THAT AN ADEQUATE WATER SUPPLY IS AVAILABLE FOR EACH AND EVERY LOT.
2. TEST RESULTS ARE AVAILABLE THROUGH THE DUTCHESS COUNTY DEPARTMENT OF HEALTH BY SUBMITTING A REQUEST UNDER THE FREEDOM OF INFORMATION LAW (FOIL).
3. THE WELL SERVICING THE EXISTING IMPROVEMENTS ON LOT THREE WAS UTILIZED AS THE TEST WELL FOR THIS SUBDIVISION.
4. RESULTS OF THE TEST WELL WATER INDICATE THAT THE WATER SUPPLY FOR EACH SITE MAY BE HARD. HARD WATER CAN BE ADDRESSED THROUGH THE USE OF A WATER SOFTENING SYSTEM IF DESIRED BY THE PROPERTY OWNER.

Dutchess County Dept. of Health

Owner/Applicant

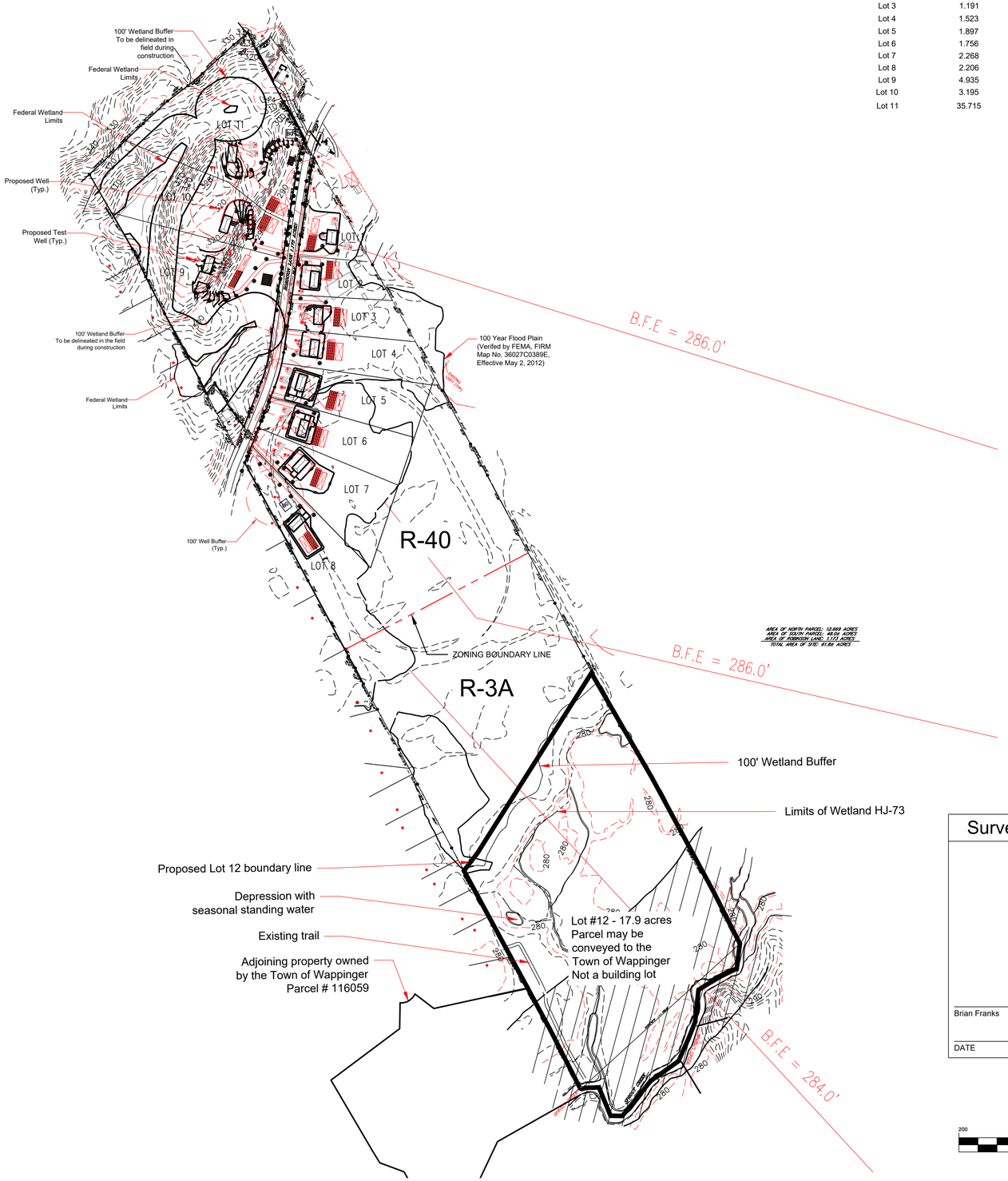
Lavish, Inc.
P.O. Box 313
Wassaic, NY 12592

Owner's Consent Note

THE UNDERSIGNED OWNER OF THIS PROPERTY HEREON STATES THAT HE IS FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENTS TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON

Lavish, Inc.

DATE



Lot Number:	Area (acres)
Lot 1	1.031
Lot 2	0.933
Lot 3	1.191
Lot 4	1.523
Lot 5	1.897
Lot 6	1.756
Lot 7	2.268
Lot 8	2.206
Lot 9	4.935
Lot 10	3.195
Lot 11	35.715

LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10 FT CONTOUR LINE
- EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD SERVICE WIRES
- EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
- FENCE POST FOUND
- IRON ROD FOUND
- PROPOSED HOUSE
- 100 YEAR FLOOD PLAIN
- PROPOSED OWTS
- PROPOSED 100% EXPANSION AREA
- PROPOSED WELL
- PROPOSED BIORETENTION AREA
- PROPOSED RAINGARDEN

SITE NOTES

1. PROPERTY BOUNDARY, TOPOGRAPHY AND EXISTING UTILITY SHOWN HEREON ARE BASED ON A SURVEY PREPARED BY BRIAN W. FRANKS LAND SURVEYOR, PC. DATED FEBRUARY 28, 2013.
2. ANY NECESSARY MEASURES AS REQUIRED BY THE NYSDEC TO MINIMIZE IMPACTS TO ENDANGERED SPECIES ON THE SITE WILL BE UTILIZED.
3. PROPOSED FILL FOR LOT #7 TO CONFORM TO DUTCHESS COUNTY HEALTH DEPARTMENT FILL SPECIFICATIONS. REFER TO DETAIL 3 (TYPICAL FILL PAD DETAIL) ON SHEET SDS.6.
4. LIMITS OF WETLAND FLAGGED BY MICHAEL NOWICKI OF ECOLOGICAL SOLUTIONS, LLC IN APRIL OF 2018.
5. NYSDEC BUREAU OF WILDLIFE MUST BE CONTACTED WITHIN 24-HOURS IF A STATE-LISTED SPECIES IS ENCOUNTERED. THE WILDLIFE OFFICE CAN BE REACHED AT 845-256-3098 OR BY EMAIL AT wildlife.r3@dec.ny.gov. THE LOCATION, PROJECT NAME AND AN EXPLANATION OF THE INCIDENT MUST BE PROVIDED.
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Well Testing Results (Re-tested September 2019):

Lot Number:	Iron Levels (mg/L)	Manganese Levels (mg/L)	Turbidity Levels (mg/L)	Total Coliform
Lot 3	< 0.010	< 0.001	< 0.20	Absent
Lot 5	0.031	0.022*	< 0.20	Absent
Lot 9	0.046	0.030*	< 0.20	Absent

* Manganese Levels shown for Lots 5 and 9 are from first well test (Wells 5 and 9 did not need to be re-tested for manganese)

Surveyor's Seal and Signature

Brian Franks

DATE

GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 200 ft.

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Revisions	Mark A. Day, PE
June 24, 2020	
May 7, 2020	
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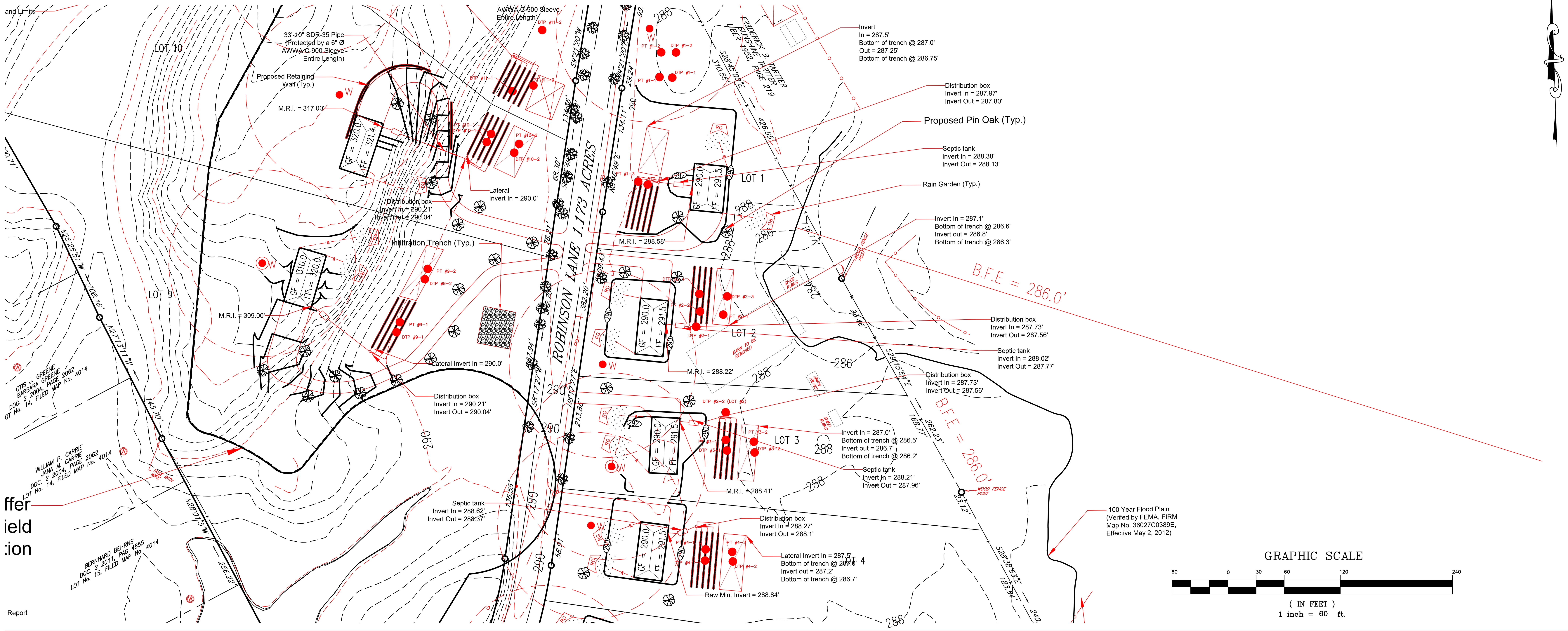
Project No. 2018.107	License No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
Overall SDS Layout Plan

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	SDS.1
DATE	CHECKED BY	20 of 25
06-14-18	DJL	



LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10 FT CONTOUR LINE
- EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
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- PROPOSED OWTS
- PROPOSED 100% EXPANSION AREA
- WETLAND
- 100' WETLAND BUFFER
- PROPOSED WELL
- PROPOSED TEST WELL
- PROPOSED BIORETENTION AREA
- PROPOSED RAINGARDEN

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Soil Test Schedule

Deep Test Pits (Performed on July 13, July 19, and October 26, 2018)			Perc Test (Performed on July 20 and October 26, 2018)								
				Run Number (Min/In.)							
DTP No.	Lot	Soil Description	PT No.	1	2	3	4	5	Pre-Soaked	Depth	Application Rate
1	1	0'-0" - 0'-6" Topsoil, 0'-6" - 3'-0" Silty Gravel Loam, 3'-0" - 7'-6" Sand and gravel with some silt, No Rock, No Mottling	1	1.5	3	4.5	5	5	YES	30"	1.2
2	1	0'-0" - 0'-6" Topsoil, 0'-6" - 4'-6" Silty Loam with some gravel, 4'-6" - 7'-0" Silty gravelly loam, Water @ 7'-0", Wet sand and gravel @ bottom of hole, No Rock, No Mottling	2	1	2	3.5	4.5	4.5	YES	30"	1.2
3	1	0'-0" - 0'-6" Topsoil, 0'-6" - 4'-0" Silty Gravelly Loam, 4'-0" - 8'-0" Sand and gravel with some silt, No Rock, No Mottling	3	0.5	2	2.5	4	4	YES	30"	1.2
1	2	0'-0" - 0'-6" Topsoil, 0'-6" - 3'-0" Silty Gravelly Loam, 3'-0" - 8'-0" Sand and gravel with some silt, No Rock, No Mottling									
2	2	0'-0" - 0'-6" Topsoil, 0'-6" - 3'-0" Silty Gravelly Loam, 3'-0" - 7'-6" Sand and gravel with some silt, No Rock, No Mottling									
3	2	0'-0" - 0'-6" Topsoil, 0'-6" - 4'-0" Silty Gravelly Loam, 4'-0" - 7'-0" Sand and gravel, No Rock, No Mottling	1	1.5	3.5	4.5	6	6	YES	30"	1.0
4	2	0'-0" - 0'-6" Topsoil, 0'-6" - 2'-0" Silty Gravelly Loam, 2'-0" - 7'-6" Sand and gravel, No Rock, No Mottling	2	1.5	3	5	6.5	7	YES	30"	1.0
1	3	0'-0" - 0'-6" Topsoil, 0-6" - 2'-6" Silty Gravelly Loam, 2'-6" - 8'-0" Sand and gravel with some silt, No Rock, No Mottling	1	1	3.5	5	5.5	6	YES	30"	1.0
2	3	0'-0" - 0'-6" Topsoil, 0-6" - 2'-6" Silty Gravelly Loam, 2'-6" - 7'-6" Sand and gravel with some silt, No Rock, No Mottling	2	1	2.5	4.5	6	6	YES	30"	1.0
1	4	0'-0" - 0'-6" Topsoil, 0-6" - 3'-0" Silty Gravelly Loam, 3'-0" - 8'-0" Sand and gravel with some silt, No Rock, No Mottling	1	3	4	5	6.5	8	YES	30"	0.9
2	4	0'-0" - 0'-6" Topsoil, 0-6" - 4'-0" Silty Gravelly Loam, 4'-0" - 7'-6" Sand and gravel with some silt, No Rock, No Mottling	2	3.5	5.5	7	7	9	YES	30"	0.9
1	5	0'-0" - 0'-6" Topsoil, 0-6" - 4'-0" Silty Gravelly Loam, 4'-0" - 7'-2" Sand and gravel with some silt, No Rock, No Mottling	1	3.5	6.5	6.5	9	9.5	YES	30"	0.9
2	5	0'-0" - 0'-6" Topsoil, 0-6" - 3'-6" Silty Gravelly Loam, 3'-6" - 7'-6" Sand and gravel with some silt, No Rock, No Mottling	2	2.5	5	7	7.5	8	YES	30"	0.9
1	6	0'-0" - 0'-6" Topsoil, 0-6" - 4'-0" Silt, 4'-0" - 8'-0" Silty gravelly loam with some sand, No Rock, No Mottling	1	1.5	3	4.5	6	6.5	YES	30"	1.0
2	6	0'-0" - 0'-6" Topsoil, 0-6" - 3'-0" Silty Gravelly Loam, 3'-0" - 8'-0" Sand and gravel with some silt, No Rock, No Mottling	2	1.5	3.5	5	6	6	YES	30"	1.0

Soil Test Schedule

Deep Test Pits (Performed on July 13, July 19, and October 26, 2018)			Perc Test (Performed on July 20 and October 26, 2018)								
				Run Number (Min/In.)							
DTP No.	Lot	Soil Description	PT No.	1	2	3	4	5	Pre-Soaked	Depth	Application Rate
1	7	0'-0" - 0'-6" Topsoil, 0-6" - 2'-2" Silty Gravelly Loam, 2'-2" - 8'-0" Sand and gravel with some silt, No Rock, No Mottling	1	1	3	4.5	6	6.5	YES	30"	1.0
2	7	0'-0" - 0'-6" Topsoil, 0-6" - 2'-6" Silty Gravelly Loam, 2'-6" - 8'-0" Sand and gravel with some silt, No Rock, No Mottling, Water @ bottom of hole	2	2	4.5	4.5	6	6	YES	30"	1.0
1	8	0'-0" - 0'-6" Topsoil, 0-6" - 1'-6" Silty Gravelly Loam, 1'-6" - 9'-0" Sand and gravel, No Rock, No Mottling, Water @ bottom of hole	1	1.5	3	3.5	5	6	YES	30"	1.0
2	8	0'-0" - 0'-6" Topsoil, 0'-6" - 2'-0" Silty Gravelly Loam, 2'-0" - 7'-6" Sand and Gravel, No Rock, No Mottling, Water @ 7'-6"	2	2	4.5	5	6	6.5	YES	30"	1.0
1	9	0'-0" - 0'-6" Topsoil, 0'-6" - 2'-8" Silt loam with some gravel, 2'-8" - 4'-8" Gravelly loam with some silt, 4'-8" - 8'-0" Tighter Silt, No Rock, No Mottling	1	1.5	3	4.5	6	7	YES	30"	1.0
2	9	0'-0" - 0'-6" Topsoil, 0'-6" - 2'-8" Silt Loam with some gravel, 2'-8" - 8'-8" Silty gravelly loam, No Rock, No Mottling,	2	2	4.5	6	6.5	7	YES	30"	1.0
1	10	0'-0" - 0'-6" Topsoil, 0'-6" - 8'-0" Sand and Gravel, No Rock, No Mottling	1	1	2.5	4	4.5	5	YES	30"	1.2
2	10	0'-0" - 0'-6" Topsoil, 0'-6" - 8'-0" Sand and Gravel with small amount of silt, No Rock, No Mottling	2	1.5	3	4.5	5	5	YES	30"	1.2
1	11	0'-0" - 0'-6" Topsoil, 0'-6" - 4'-0" Silt loam with some gravel, 4'-0" - 9'-0" Sand and Gravel with Some Silt, No Rock, No Mottling	1	2	4.5	6	7	7	YES	30"	1.0
2	11	0'-0" - 0'-6" Topsoil, 0'-6" - 2'-8" Silt loam with some gravel, 2'-8" - 9'-0" Sand and Gravel, No Rock, No Mottling	2	1.5	3	5	5.5	6	YES	30"	1.0
3	11	0'-0" - 1'-0" Topsoil, 1'-0" - 5'-0" Silty Loam, 5'-0" - 8'-6" Sand and Gravel ,No Rock, No Mottling	3	1.5	3.5	5	6	6	YES	30"	1.0
4	11	0'-0" - 1'-0" Topsoil, 1'-0" - 7'-0" Silty Sandy Loam, Gravel @ bottom, No Rock, No Mottling									

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Mark A. Day, PE

Revisions: June 24, 2020; May 7, 2020; September 17, 2019; August 19, 2019; July 18, 2019; July 11, 2019; September 24, 2018; July 17, 2018

STATE OF NEW YORK · MARK A. DAY · LICENSED PROFESSIONAL ENGINEER · No. 069646

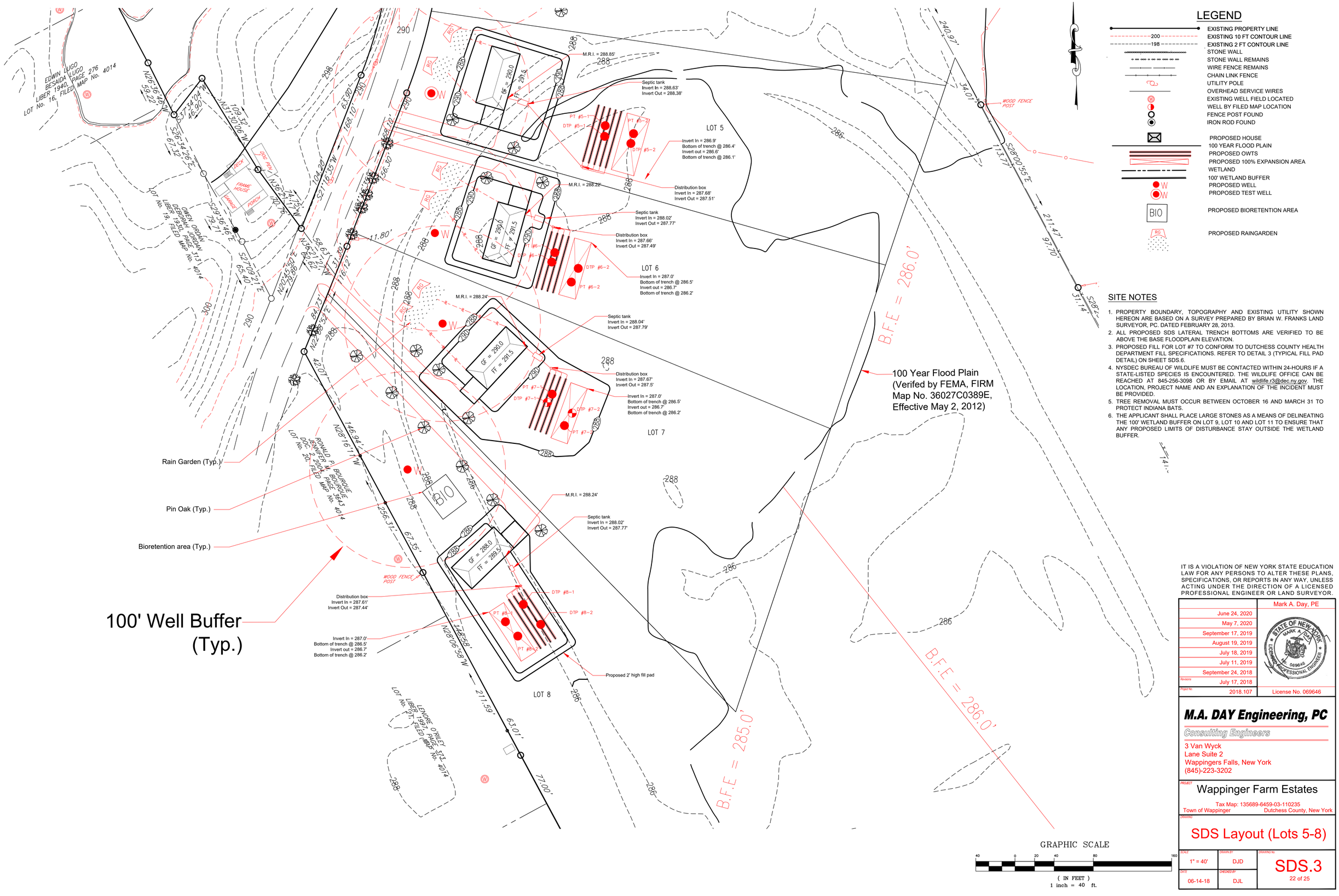
Project No. 2018.107 | License No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger — Dutchess County, New York

DRAWING
SDS Layout (Lots 1-4)

SCALE	DRAWN BY	DRAWING No.
1" = 60'	DJD	SDS.2
DATE: 06-14-18	CHECKED BY: DJL	21 of 25



LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10 FT CONTOUR LINE
- EXISTING 2 FT CONTOUR LINE
- STONE WALL
- STONE WALL REMAINS
- WIRE FENCE REMAINS
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- OVERHEAD SERVICE WIRES
- EXISTING WELL FIELD LOCATED
- WELL BY FILED MAP LOCATION
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- WETLAND
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- PROPOSED TEST WELL
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6. THE APPLICANT SHALL PLACE LARGE STONES AS A MEANS OF DELINEATING THE 100' WETLAND BUFFER ON LOT 9, LOT 10 AND LOT 11 TO ENSURE THAT ANY PROPOSED LIMITS OF DISTURBANCE STAY OUTSIDE THE WETLAND BUFFER.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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Revisions	Mark A. Day, PE
June 24, 2020	
May 7, 2020	
September 17, 2019	
August 19, 2019	
July 18, 2019	
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September 24, 2018	
July 17, 2018	
Project No. 2018.107	License No. 069646

STATE OF NEW YORK · MARK A. DAY · 069646 · LICENSED PROFESSIONAL ENGINEER

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT: Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger — Dutchess County, New York

DRAWING: SDS Layout (Lots 5-8)

SCALE	DRAWN BY	DRAWING No.
1" = 40'	DJD	SDS.3
DATE: 06-14-18	CHECKED BY: DJL	22 of 25

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July 17, 2018	
Project No. 2018.107	License No. 069646

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PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
SDS Layout (Lots 9-11)

SCALE	DRAWN BY	DRAWING No.
1" = 40'	DJD	SDS.4
DATE	CHECKED BY	23 of 25
06-14-18	DJL	

Z:\2010 AutoCad Dwgs\2018.032 - Robinson Lane Subdivision\CAD Files\Sheet Files\2018032-GI101 (As of 08-03-18).dwg

Field Schedule

Lot No.	Tile Field Length - 4 Bedroom (440 gal./day)	Cut-out System	Fill Required	Trench Width	Lateral Spacing	Drop Box	Curtain Drain	Min. raw Invert	Septic Tank Size	No. & Length of Laterals
Primary (Lot 1)	250 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.58'	1,250	5 Lines @ 50 Feet
Expansion (Lot 1)	250 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.58'	1,250	5 Lines @ 50 Feet
Primary (Lot 2)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.22'	1,250	4 Lines @ 60 Feet
Expansion (Lot 2)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.22'	1,250	4 Lines @ 60 Feet
Primary (Lot 3)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.41'	1,250	4 Lines @ 60 Feet
Expansion (Lot 3)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.41'	1,250	4 Lines @ 60 Feet
Primary (Lot 4)	300 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.84'	1,250	5 Lines @ 60 Feet
Expansion (Lot 4)	300 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.84'	1,250	5 Lines @ 60 Feet
Primary (Lot 5)	300 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.85'	1,250	5 Lines @ 60 Feet
Expansion (Lot 5)	300 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.85'	1,250	5 Lines @ 60 Feet
Primary (Lot 6)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.22'	1,250	4 Lines @ 60 Feet
Expansion (Lot 6)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.22'	1,250	4 Lines @ 60 Feet
Primary (Lot 7)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.24'	1,250	4 Lines @ 60 Feet
Expansion (Lot 7)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	288.24'	1,250	4 Lines @ 60 Feet

Field Schedule

Lot No.	Tile Field Length - 4 Bedroom (440 gal./day)	Cut-out System	Fill Required	Trench Width	Lateral Spacing	Drop Box	Curtain Drain	Min. raw Invert	Septic Tank Size	No. & Length of Laterals
Primary (Lot 8)	240 Lineal Feet	No	2'-0"	2'-0"	6'-0"	None	None	288.24'	1,250	4 Lines @ 60 Feet
Expansion (Lot 8)	240 Lineal Feet	No	2'-0"	2'-0"	6'-0"	None	None	288.24'	1,250	4 Lines @ 60 Feet
Primary (Lot 9)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	309.00'	1,250	4 Lines @ 60 Feet
Expansion (Lot 9)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	309.00'	1,250	4 Lines @ 60 Feet
Primary (Lot 10)	250 Lineal Feet	No	No	2'-0"	6'-0"	None	None	317.00'	1,250	5 Lines @ 50 Feet
Expansion (Lot 10)	250 Lineal Feet	No	No	2'-0"	6'-0"	None	None	317.00'	1,250	5 Lines @ 50 Feet
Primary (Lot 11)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	310.0'	1,250	6 Lines @ 40 Feet
Expansion (Lot 11)	240 Lineal Feet	No	No	2'-0"	6'-0"	None	None	310.0'	1,250	6 Lines @ 40 Feet

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Mark A. Day, PE

Revisions
June 24, 2020
May 7, 2020
September 17, 2019
August 19, 2019
July 18, 2019
July 11, 2019
September 24, 2018
July 17, 2018

Project No. 2018.107

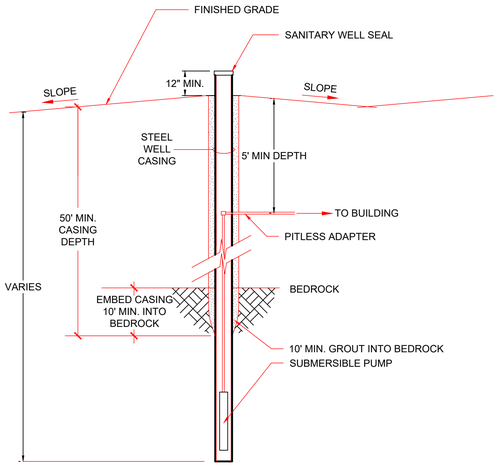
License No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

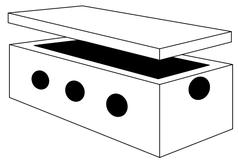
PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
SDS Field Schedule

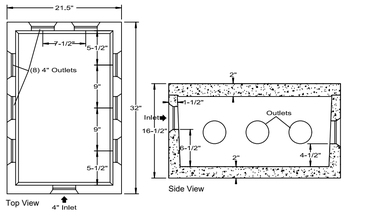
SCALE: As Noted
DRAWN BY: DJD
DRAWING No.: SDS.5
DATE: 06-14-18
CHECKED BY: DJL
24 of 25



1 WELL DETAIL
NOT TO SCALE



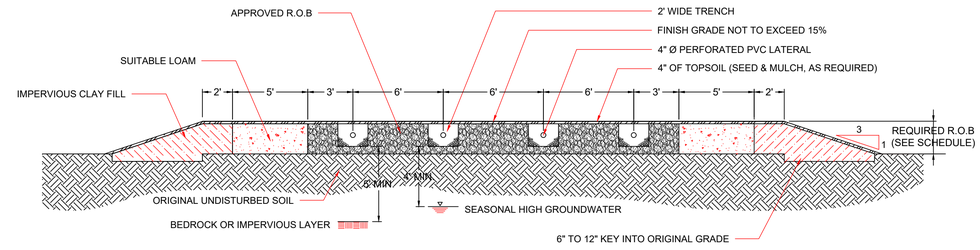
NOTES:
1. A MINIMUM OF 4' OF 4"Ø SOLID PIPE SHALL BE PROVIDED PRIOR TO THE START OF THE TRENCHES.
2. ALL OUTLETS SHALL BE AT THE SAME ELEVATION. ALL UNUSED OUTLETS MUST BE PLUGGED.
3. A BRICK BAFFLE SHALL BE PLACE AT THE INLET OPENING OF THE D-BOX.
4. A BED OF 12" OF PEA GRAVEL SHALL BE PROVIDED UNDER THE D-BOX.
5. THE INVERT ON THE INLET PIPE SHALL BE A MINIMUM OF 2" HIGHER THAN THE INVERT OF ANY OF THE OUTLETS.
6. SPEED LEVELERS SHALL BE PROVIDED IN DISTRIBUTION BOX.



SPECIFICATIONS	PRECAST DISTRIBUTION BOXES MODEL DB-9 / 8 OUTLET BOX
Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: Fiber, 10ga. wire mesh Air Entrainment: 5% Pipe Connection: Polylok Seal (patented) Load Rating: 300 psf Weight = 290 lbs	**Woodard's Concrete Products, Inc.** 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050 Page 5B 5/20/11

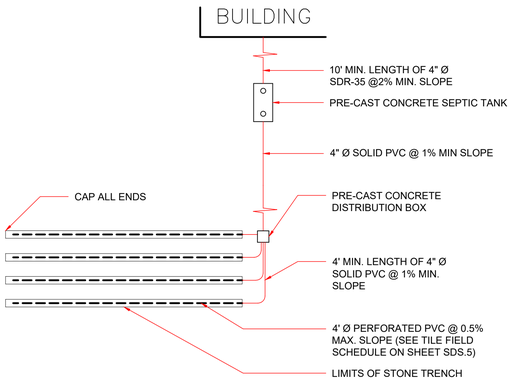
www.woodardsconcrete.com

2 DISTRIBUTION BOX DETAIL
NOT TO SCALE



NOTES:
1. ANY FILL AND IMPERVIOUS COVER MUST BE IN PLACE AND A PROFESSIONAL ENGINEER SHALL CERTIFY, IN WRITING, THAT ALL SOIL CONDITIONS ARE SATISFACTORY TO ALLOW FOR THE INSTALLATION OF THE SEWAGE DISPOSAL SYSTEM.
2. SCARIFY EXISTING GRADE PRIOR TO PLACEMENT OF FILL PAD.
3. LATERALS TO BE PLACED 6' ON CENTERS WITH THE LIMITS OF THE SAND AND GRAVEL 3' BEYOND THE CENTER OF THE TRENCH.
4. THE CLAY FILL TO BE OF AN IMPERVIOUS NATURE AND PLACED BEYOND THE LIMITS OF SAND AND GRAVEL.
5. THE R.O.B. GRAVEL USED IN THIS SYSTEM SHALL BE SAND AND GRAVEL FILL WITH A STABILIZED PERCOLATION RATE WHICH IS LESS THAN OR EQUAL TO THE PERCOLATION RATE OF THE VIRGIN SOIL, AND NO MORE THAN 15 MINUTES PER INCH. THE DESIGN ENGINEER SHALL CERTIFY, IN WRITING, THAT THE FILL MATERIAL IS IN THE PROPER PLACE, IS OF PROPER QUANTITY AND DIMENSIONS, AND IS OF PROPER QUALITY. PROPER QUALITY MUST BE DEMONSTRATED BY STABILIZED PERCOLATION TESTS, THE RESULTS OF WHICH SHALL BE SUBMITTED WITH THE ENGINEER'S CERTIFICATION.

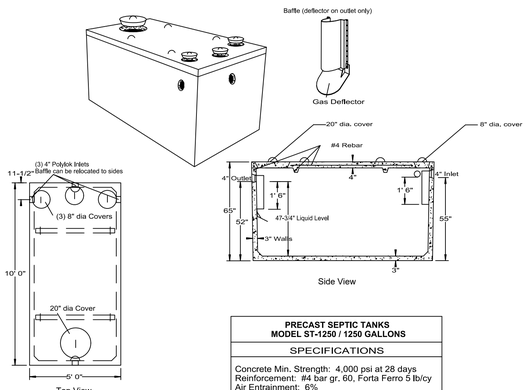
3 TYPICAL FILL PAD DETAIL
NOT TO SCALE



4 TYPICAL TILE FIELD DETAIL
NOT TO SCALE

CONSTRUCTION NOTES:
1) THE BACKFILL MATERIAL SHALL NOT BE ANY LARGER THAN 4" IN ANY DIMENSION.
2) THE TRENCH BOTTOMS SHALL BE GRADED LEVEL.

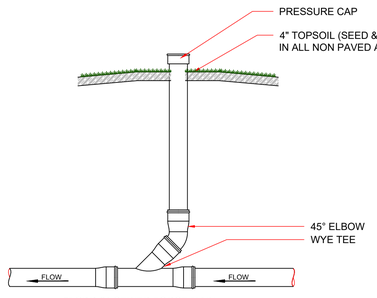
5 SEWAGE DISPOSAL TRENCH DETAIL
NOT TO SCALE



PRECAST SEPTIC TANKS MODEL ST-1250 / 1250 GALLONS
SPECIFICATIONS
Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: #4 bar gr. 60, Forta Ferro 5 lb/cy Air Entrainment: 6% Construction Joint: Butyl Rubber Sealant Pipe Connection: Polylok Seal (patented) Weight = 9,500 lbs Load Rating: 300 psf

NOTES:
1. THE CONTRACTOR SHALL SEAL PENETRATIONS IN THE TANK SO THAT THE TANK IS WATERTIGHT.
2. THE TANK SHALL BE CONSTRUCTED FROM CONCRETE WHICH SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT A STANDARD 28 DAY COMPRESSIVE TEST.
3. #4 & #5 REBAR SHALL BE USED AS REINFORCEMENT FOR THE TANK.
4. TWO-PIECE TANKS SHALL BE SEALED WITH A BUTYL GASKET OR AS PER THE MANUFACTURER'S RECOMMENDATIONS.
5. THE CONTRACTOR SHALL SEAL THE JOINT BETWEEN THE TOP OF THE TANK & THE CAST IRON FRAME WITH A BUTYL SEALANT.
6. THE CONTRACTOR SHALL SEAL THE CONCRETE MANHOLES WITH A COAT OF BITUMASTIC SEALANT APPLIED TO THE SEAT OF THE MANHOLE.
7. THE FINISHED GRADE AROUND THE MANHOLE OPENINGS SHALL ENSURE THAT WATER WILL FLOW AWAY FROM THE LID.
8. IF TANK IS SEGMENTED, CONTRACTOR SHALL PERFORM A HYDROSTATIC TEST ON THE TANK UPON INSTALLATION AND PRIOR TO BACKFILLING, BY OF FILLING THE TANK TO THE BOTTOM OF THE CONCRETE LID WITH WATER AND VERIFYING THAT NO APPRECIABLE LOSS OCCURS DURING A 24 HOUR PERIOD. A NYS LICENSED PROFESSIONAL ENGINEER SHALL VERIFY IN WRITING TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH THE RESULTS OF THE HYDROSTATIC TEST.
9. THE FRAME & GRATE SHALL BE LOCKING, VANDAL PROOF WATERTIGHT LID.

6 1,250 GALLON SEPTIC TANK
NOT TO SCALE



3" SDR-21 SEWER FORCE MAIN

NOTES:
1. SET MANHOLE FRAME IN A 3/4" MORTAR BED
2. BACKFILL SHALL BE COMPACTED IN 6" LIFTS TO A 90% STANDARD PROCTOR
3. MANHOLE COVERS TO BE STAMPED "SEWER".

7 TYPICAL CLEANOUT DETAIL
NOT TO SCALE

Standard Notes for Residential Projects (Onsite Water Source & Sewage Disposal)

The design, construction and installation shall be in accordance with this plan and generally accepted standards in effect at the time of construction which include:

"Appendix 75-A, Waste Treatment - Individual Household Systems, New York State Sanitary Code."

"New York State Design Standards for Intermediate Sized Wastewater Treatment Systems", NYSDEC

"Residential Onsite Wastewater Treatment Systems, Design Handbook", New York State Department of Health.

"Planning the Subdivision as Part of the Total Environment", New York State Department of Health.

"New York State Department of Health and Dutchess County Environmental Health Services Division policies, procedures and standards."

"Dutchess County and New York State Sanitary Codes."

"Dutchess County Environmental Health Services Division Certificate of Approval letter."

This plan is approved as meeting the appropriate and applied technical standards, guidelines, policies and procedures for arrangement of sewage disposal and treatment and water supply facilities; and, as a condition of this approval, a construction inspection by a representative of the DC EHSD shall be done to determine that construction at the time of inspection was completed in general conformance with the approved plans and any amendment thereof.

Approval of any plan(s) or amendment thereto shall be valid for a period of 5 years from the date of approval. Following the expiration of said approval, the plan(s) shall be re-submitted to the Commissioner of Health for consideration for re-approval. Re-submission or revised submission of plans and/or associated documents shall be subject to compliance with the technical standards, guidelines, policies and procedures in effect at the time of the re-submission.

The DC EHSD shall be contacted prior to the commencement of the home construction and/or issuance of a building permit for a pre-construction inspection to ensure that the arrangements for water supply and sewage disposal are commenced in accordance with the approved plans and amendments thereto and generally accepted standards.

All wells and onsite wastewater treatment systems, existing or approved, located within 300 feet of the proposed wells and onsite wastewater treatment system are shown on this plan along with any other environmental hazards in the area that may affect the design and functional ability of the onsite wastewater treatment system and well.

If the tank is delivered to the site in sections, then it shall be demonstrated by the contractor to the DC EHSD field inspector and/or design professional that the tank is sealed, watertight and acceptable for use. This shall require, at a minimum, the filling of the tank with water to observe if it is in fact sealed, watertight and acceptable for use. The tank must also meet any local testing requirements, including possible electrical and safety standards.

All proposed wells and service lines on this plan are accessible for installation and placement.

No cellar, footing, floor, garage, cooler or roof drains shall be discharged into the onsite wastewater treatment system or within 50 feet of any well.

All buildings shall be constructed at an elevation high enough to ensure gravity flow to the onsite wastewater treatment system.

There shall be no vehicular traffic over the onsite wastewater treatment system. Prior to construction, the area of the system shall be staked out and fenced off.

Onsite wastewater treatment systems shall not be installed in wet or frozen soil.

All required Erosion & Sediment Control and Stormwater Pollution Prevention Water Quality & Quantity Control structures, permanent and temporary, are shown on the plans.

The undersigned owners of the property hereon state that they are familiar with this map, its contents and its legends and hereby consent to all said terms and conditions as stated hereon.

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May 7, 2020	
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Project No. 2018.107	License No. 069646

M.A. DAY Engineering, PC
Consulting Engineers
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

PROJECT
Wappinger Farm Estates
Tax Map: 135689-6459-03-110235
Town of Wappinger Dutchess County, New York

DRAWING
SDS Details

SCALE	DRAWN BY	DRAWING No.
As Noted	DJD	SDS.6
DATE	CHECKED BY	25 of 25
06-14-18	DJL	