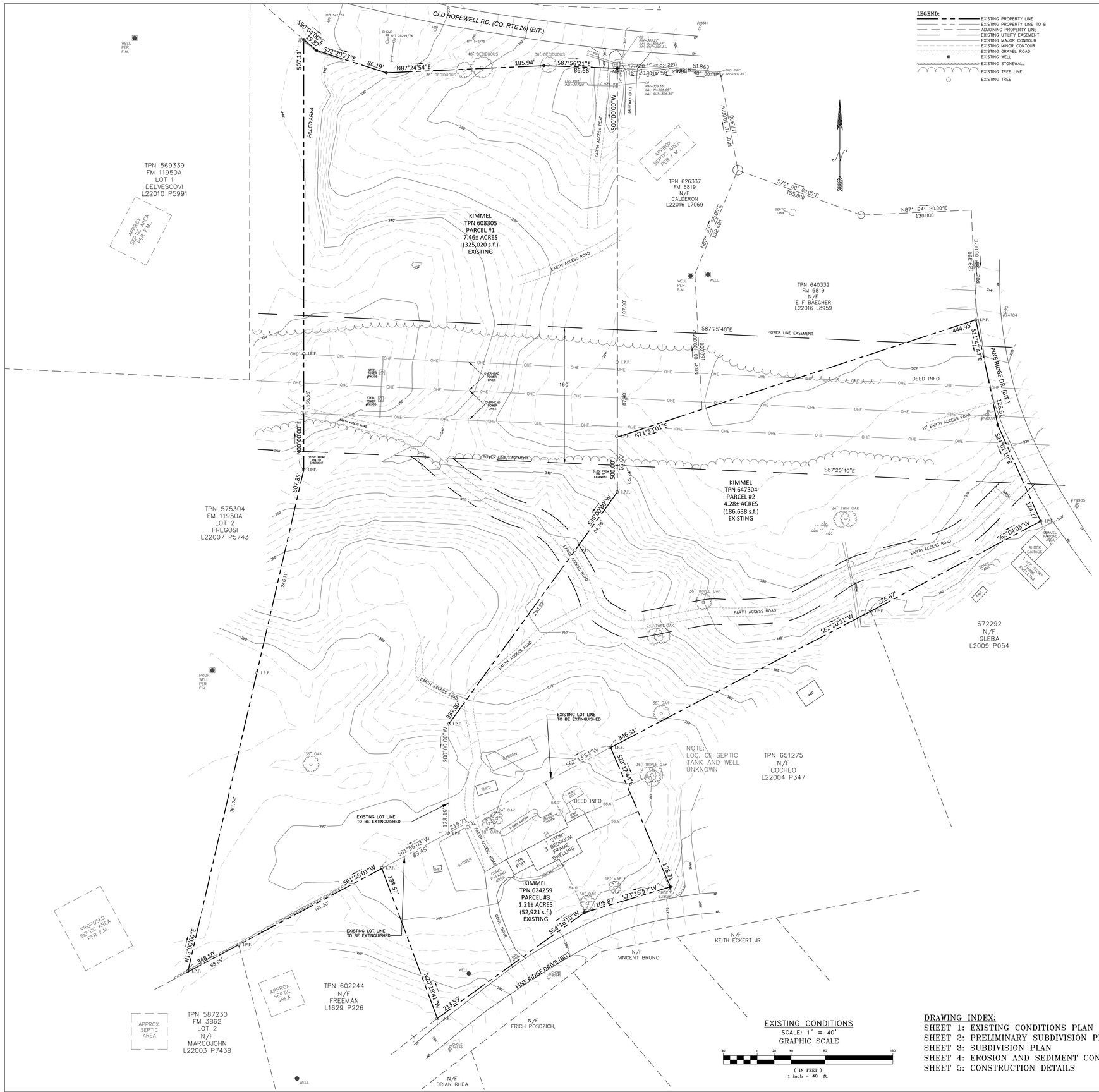


LEGEND:

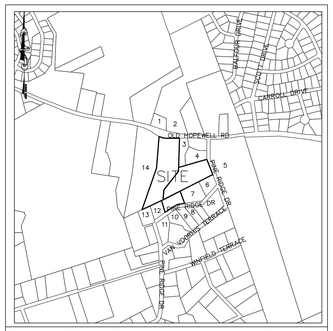
- EXISTING PROPERTY LINE
- EXISTING PROPERTY LINE TO E
- ADJOINING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING GRAVEL ROAD
- EXISTING WELL
- EXISTING STONEWALL
- EXISTING TREE LINE
- EXISTING TREE

PROJECT INFORMATION:

PARCEL OWNER:	TIMOTHY KIMMEL, 5 FOREST VEW DRIVE, HOPEWELL JUNCTION, NY 12533
PROJECT ENGINEER:	HUDSON LAND DESIGN P.C., 174 MAIN STREET, BEACON NY 12508
PARCEL LOCATION:	325 PINE RIDGE ROAD, WAPPINGER, NY 12590
TAX PARCEL ID:	6257-04-624259, 608305, & 647304
PARCEL AREA:	±1.21 ACRES, ±7.46 ACRES, ±4.28 ACRES: TOTAL=±12.95 ACRES
WATER SUPPLY:	PRIVATE WELL
SEWAGE DISPOSAL:	PRIVATE SDS

MAP REFERENCES:

1. EXISTING FEATURES AS SHOWN ON THIS SKETCH PLAN PROVIDED BY MAPPING OBTAINED FROM LARRY LYNN, L.S. ENTITLED "SURVEY PLAN FOR/TO TIMOTHY KIMMEL," COMPLETED ON DECEMBER 28TH, 2017.



SITE LOCATION MAP SCALE: 1" = 800'

ADJOINING OWNERS:

PARCEL: OWNER & ADDRESS
1. MARIANNA FARRAUTO, 381 OLD HOPEWELL RD, WAPPINGERS FALLS NY 12590
2. IRMA FARFARO, PO BOX 803 HOPEWELL JUNCTION NY 12533
3. EVIN CALDERON, 5 FOSTER ROAD HOPEWELL JUNCTION NY 12533
4. ANGEL RAMON-CORONEL, 9 FULTON STREET WAPPINGERS FALLS 12590
5. DEER RIDGE LLC, 20 BALLYMEADE ROAD, HOPEWELL JUNCTION NY 12533
6. SEAN GLEBA, 401 PINE RIDGE DRIVE WAPPINGERS FALLS 12590
7. DONALD COCHEO, 331 PINE RIDGE DRIVE WAPPINGERS FALLS NY 12590
8. KEITH ECKERT JR, 330 PINE RIDGE DRIVE WAPPINGERS FALLS NY 12590
9. VINCENT BRUNO, 324 PINE RIDGE DRIVE WAPPINGERS FALLS NY 12590
10. ERICH POSDZICH, 318 PINE RIDGE DR WAPPINGERS FALLS NY 12590
11. BRIAN RHEA, 133 VAN VOORHIS TERRACE WAPPINGERS FALLS NY 12590
12. SUSIE FREEMAN, 313 PINE RIDGE DRIVE WAPPINGERS FALLS NY 12590
13. JEANNE MARCOJOHN, 309 PINE RIDGE DRIVE WAPPINGERS FALLS NY 12590
14. BARRY SITLER, 28 DONALD LANE OSSINING NY 10562

DCDBCH APPROVAL BLOCK

DUTCHESS COUNTY DEPARTMENT OF HEALTH
POUGHKEESPIE, NEW YORK

RECOMMENDED FOR APPROVAL BY:

_____

THIS IS TO CERTIFY THAT THE PROPOSED ARRANGEMENTS FOR WATER SUPPLY AND SEWAGE DISPOSAL FOR THE RESIDENTIAL SUBDIVISION TO BE KNOWN AS

KIMMEL SUBDIVISION

IN THE TOWN OF WAPPINGER WERE APPROVED ON_____ IN ACCORDANCE WITH PLANS ON FILE IN THE OFFICE OF THE DUTCHESS COUNTY DEPARTMENT OF HEALTH. CONSENT IS HEREBY GIVEN TO THE FILING OF THE MAP ON WHICH THIS ENDORSEMENT APPEARS IN THE OFFICE OF THE COUNTY CLERK OF DUTCHESS COUNTY IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 11 TITLE 2 OF THE NEW YORK STATE PUBLIC HEALTH LAW AND ARTICLE 17 TITLE 15 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW, AND ARTICLE 11 OF THE DUTCHESS COUNTY SANITARY CODE.

_____
SUPERVISING PUBLIC HEALTH ENGINEER

EXISTING CONDITIONS

SCALE: 1" = 40'
GRAPHIC SCALE

40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

DRAWING INDEX:

SHEET 1: EXISTING CONDITIONS PLAN
SHEET 2: PRELIMINARY SUBDIVISION PLAT
SHEET 3: SUBDIVISION PLAN
SHEET 4: EROSION AND SEDIMENT CONTROL PLAN
SHEET 5: CONSTRUCTION DETAILS

OWNER'S CONSENT:

THE UNDERSIGNED OWNER OF THE 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.

_____ _____
TIMOTHY KIMMEL DATE

KIMMEL SUBDIVISION

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF WAPPINGER, NEW YORK, ON THE _____ DAY OF _____, 20_____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAT, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS _____ DAY OF _____, 20_____ BY

_____ CHAIRMAN

DRAWN BY: AG				CHECKED BY: MAB			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1	7/18/22	REVISED PER PB COMMENTS	ESR				
2	8/12/22	REVISED PER PB COMMENTS	ESR				

HUDSON LAND DESIGN

STATE OF NEW YORK · MICHAEL A. BEDFORD · 082445 · LICENSED PROFESSIONAL ENGINEER
SEAL

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
174 MAIN ST., BEACON, NEW YORK 12508
13 CHAMBERS ST., NEWBURGH, NEW YORK 12550
PH: 845-440-6926
F: 845-440-6637

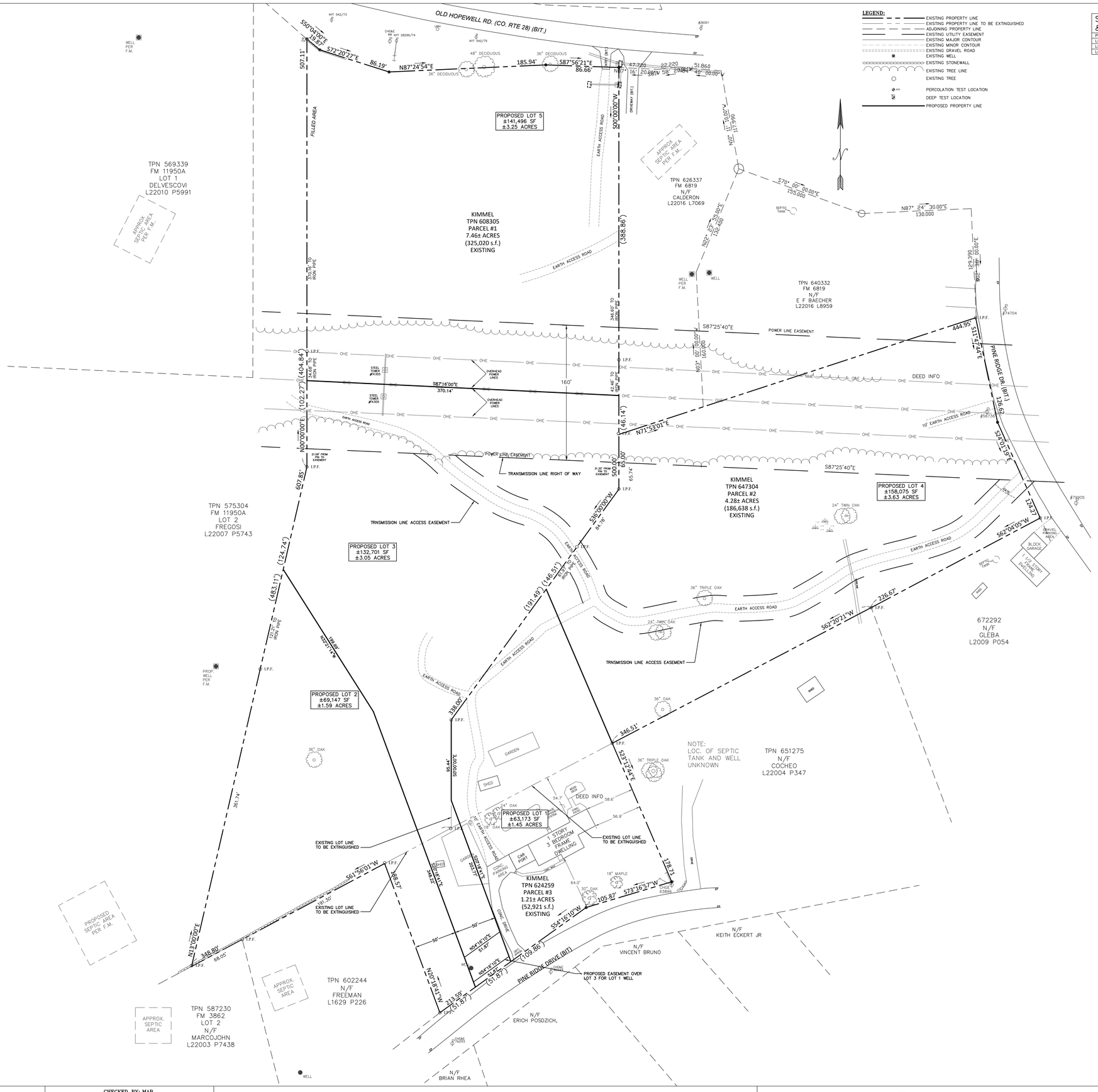
EXISTING CONDITIONS

KIMMEL SUBDIVISION

325 PINE RIDGE DRIVE
TOWN OF WAPPINGER
DUTCHESS COUNTY, NEW YORK
TAX ID: 6256-04-624258 & 608305; & 647304

JOB #:	2017:008
DATE:	05/16/2022
SCALE:	1" = 40'
TITLE:	XC-1
SHEET:	1 OF 5

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK EDUCATION LAW



LEGEND:

- EXISTING PROPERTY LINE
- EXISTING PROPERTY LINE TO BE EXTINGUISHED
- ADJOINING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING GRAVEL ROAD
- EXISTING WELL
- EXISTING STONEWALL
- EXISTING TREE LINE
- EXISTING TREE
- PERCOLATION TEST LOCATION
- DEEP TEST LOCATION
- PROPOSED PROPERTY LINE

SCHEDULE OF REGULATIONS (R-40 ZONING DISTRICT) & LOT CONFORMANCE TABLE:

PARAMETER	REQUIREMENT	LOT #1	LOT #2	LOT #3	LOT #4	LOT #5
LOT AREA:	40,000 SQUARE FEET MIN	63,173 SF	69,147 SF	132,701 SF	158,075 SF	141,496 SF
LOT WIDTH:	125 FEET MINIMUM	164.5 FEET	195.5 FEET	281.2 FEET	263.6 FEET	369.7 FEET
LOT DEPTH:	125 FEET MINIMUM	273.9 FEET	369.6 FEET	266.6 FEET	444.9 FEET	371.5 FEET

I HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED ON DECEMBER 28, 2017.

BY: LARRY L. LYNN, L.S. N.Y. State Lic. no. 050531

DRAWN BY: AG				CHECKED BY: MAB			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1	7/18/22	REVISED PER PB COMMENTS	ESR				
2	8/12/22	REVISED PER PB COMMENTS	ESR				

PRELIMINARY SUBDIVISION PLAT
SCALE: 1" = 40'
GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

HUDSON LAND DESIGN

SEAL

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
174 MAIN ST., BEACON, NEW YORK 12508
13 CHAMBERS ST., NEWBURGH, NEW YORK 12550
PH: 845-440-6926
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PRELIMINARY SUBDIVISION PLAT

KIMMEL SUBDIVISION

325 PINE RIDGE DRIVE
TOWN OF WAPPINGER
DUTCHESS COUNTY, NEW YORK
TAX ID: 6256-04-624259 & 608305; & 647304

JOB #:	2017:008
DATE:	05/16/2022
SCALE:	1" = 40'
TITLE:	PLAT-1
SHEET:	2 OF 5

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK EDUCATION LAW

SITE SPECIFIC NOTES:

1. CONTRACTOR IS REQUIRED TO HAVE ALL EXISTING UTILITIES MARKED IN THE FIELD PRIOR TO BEGINNING WORK. ANY POTENTIAL UTILITY CROSSINGS AND/OR INTERFERENCES MUST BE EVALUATED BY THE DESIGN ENGINEER TO DETERMINE IF DESIGN CHANGES ARE WARRANTED.
2. CONTRACTOR IS NOT TO ASSUME THAT ELEVATIONS SHOWN ARE CORRECT. ALL ELEVATIONS, PIPE MATERIALS, PIPE SIZES, ETC. MUST BE VERIFIED BY CONTRACTOR AND CHANGES SHALL BE REPORTED TO DESIGN ENGINEER TO DETERMINE WHETHER OR NOT DESIGN CHANGES ARE WARRANTED.
3. THE CONTRACTOR SHALL CALL IN A "CODE 53" PRIOR TO ANY EXCAVATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PERSONS DURING CONSTRUCTION FROM HARM IN ACCORDANCE WITH ALL APPLICABLE CODES, RULES & REGULATIONS, STANDARDS AND GOOD PRACTICES.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL CODES, RULES AND REGULATIONS.
6. THE NEW YORK STATE POWER AUTHORITY CURRENTLY HAS AN EASEMENT AND A LICENSE AGREEMENT FOR ACCESS TO THEIR UTILITY LINES THAT TRAVERSE THE SITE. THE PROPERTY OWNER HAS RIGHTS TO USE THE SAME ACCESS DRIVE FOR INGRESS/EGRESS TO HIS PROPERTY, SO LONG AS NO CHANGES ARE MADE TO THE ACCESS DRIVE.
7. TREE REMOVAL WOULD OCCUR DURING WINTER (OCTOBER 1 – MARCH 31) TO AVOID DIRECT IMPACTS TO THE FEDERALLY-LISTED ENDANGERED INDIANA BAT (MYOTIS SODALIS).

TOWN OF WAPPINGER DRIVEWAY NOTES:

ALL DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DESIGN STANDARDS AS SET FORTH BY THE TOWN OF WAPPINGER:

A) THE MAXIMUM GRADE SHALL NOT EXCEED 12%.

B) THE INITIAL TWENTY-FIVE (25) FEET OF ALL DRIVEWAYS SHALL BE PAVED.

C) ALL DRIVEWAYS WITH GRADES GREATER THAN OR EQUAL TO 6% AND/OR LENGTHS OF GREATER THAN TWO-HUNDRED FIFTY (250) FEET SHALL BE PAVED FOR THEIR ENTIRE LENGTH.

D) DRIVEWAYS AND ACCESS ROADS SHALL BE SO DESIGNED AS TO PROVIDE FIRE DEPARTMENT APPARATUS ACCESS TO WITHIN A DISTANCE OF SEVENTY-FIVE (75) FEET OR LESS OF THE STRUCTURE THAT MAY BE CALLED UPON TO BE PROTECTED AND SUCH DRIVEWAYS AND ACCESS ROADS SHALL BE DESIGNED SO AS TO MEET THE FOLLOWING REQUIREMENTS:

(1) THE DRIVEWAYS SHALL HAVE AND MAINTAIN AN OVERHEAD CLEARANCE OF FIFTEEN (15) FEET, FREE OF ANY OBSTRUCTIONS SUCH AS TREE BRANCHES, PERSONAL LIGHT POLES, UTILITY WIRES, ETC.

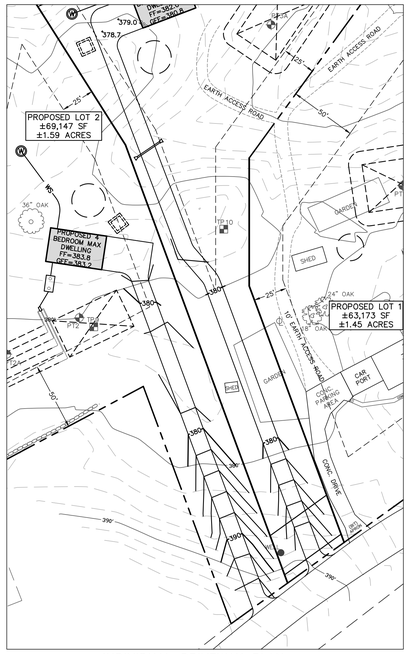
(2) THE DRIVEWAY BASE SHALL BE SUFFICIENT TO SUPPORT A THIRTY (30) TON FIRE FIGHTING APPARATUS.

(3) NO TURNS SHALL BE OF SUCH A DEGREE AS TO PREVENT ACCESS OF FIRE DEPARTMENT APPARATUS.

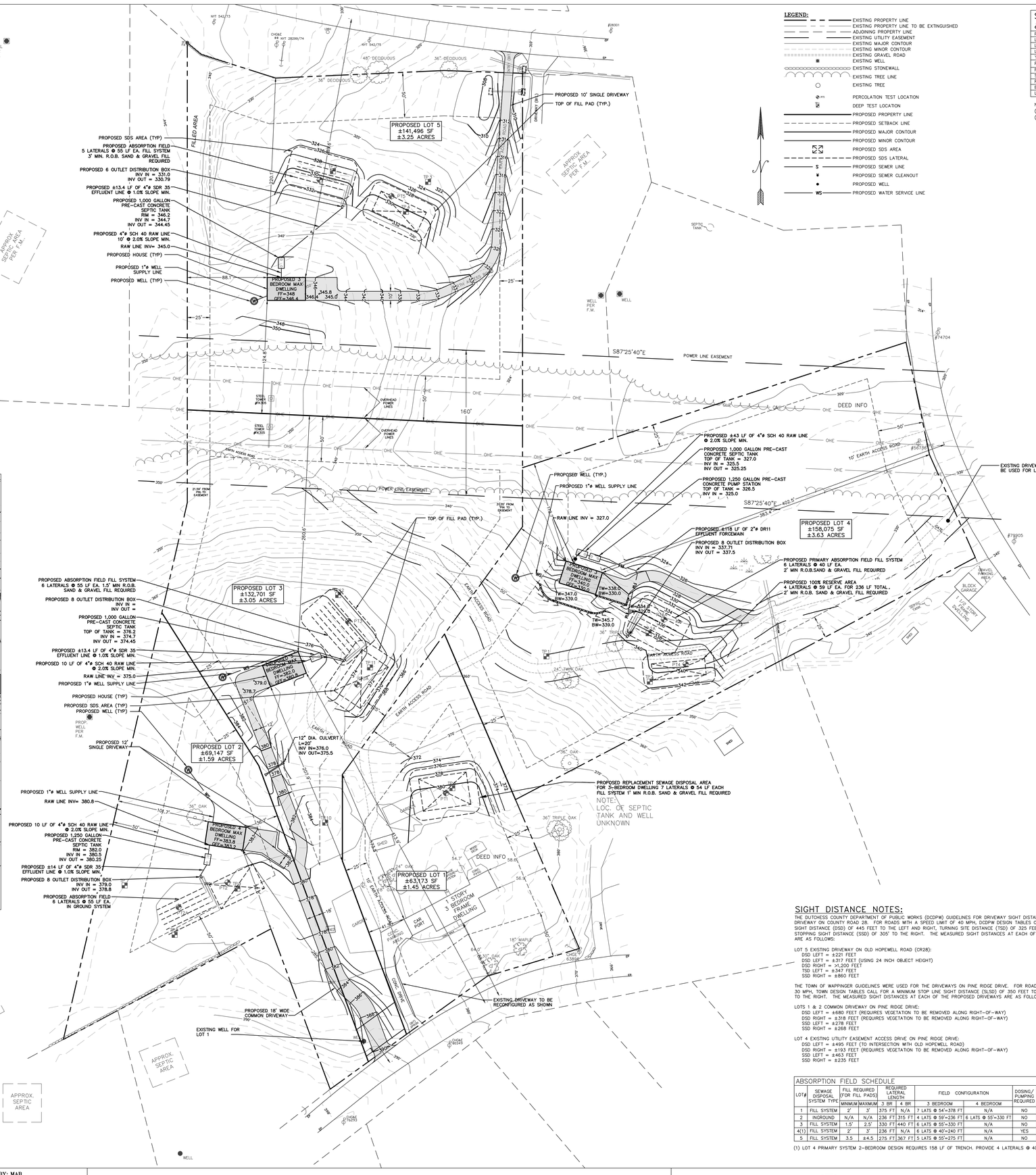
SEWAGE DISPOSAL SYSTEM MAINTENANCE NOTES:

ADEQUATE MAINTENANCE OF THE SEWAGE DISPOSAL SYSTEM IS IMPERATIVE. UNATTENDED SYSTEMS WILL NOT FUNCTION PROPERLY. THE FOLLOWING ARE GENERAL GUIDELINES THAT SHOULD BE ADJUSTED BASED ON ACTUAL USAGE AND PERFORMANCE. NEVER ENTER ANY TANK.

1. SEPTIC TANKS: PUMP EVERY TWO TO THREE YEARS, OR WHENEVER:
   - 1.1. THE TOTAL DEPTH OF SLUDGE AND SCUM EXCEEDS $\frac{1}{3}$ OF THE LIQUID DEPTH OF THE TANK
   - 1.2. THE BOTTOM OF THE SCUM LAYER IS WITHIN THREE INCHES OF THE BOTTOM OF THE OUTLET BAFFLE
   - 1.3. THE TOP OF THE SLUDGE LAYER IS WITHIN TEN INCHES OF THE BOTTOM OF THE BAFFLE.
2. DISTRIBUTION:
   - 2.1. DISTRIBUTION BOXES: INSPECT PERIODICALLY TO ENSURE EQUAL FLOW TO ALL LINES AND CHECK FOR SOLIDS.
   - 2.2. DROP BOXES: DROP BOXES MAXIMIZE FLOW TO THE UPPERMOST ABSORPTION TRENCHES AND PRODUCE SEQUENTIAL TRENCH DISTRIBUTION WITH THE UPPERMOST TRENCHES BEING UTILIZED UNTIL BIOMAT BUILDUP CAUSES OVERFLOW TO THE NEXT DOWNGRADIENT TRENCH(ES). SYSTEM LONGEVITY CAN BE IMPROVED BY PERIODICALLY RESTING ANY OF THE UPPER LATERALS BY REPLACING ADJUSTABLE OUTLET LEVELERS WITH PLUGS FOR A SIX MONTH PERIOD.
3. PUMP CHAMBERS:
   - 3.1. THE EFFLUENT PUMP AND ALARM SHALL BE PERIODICALLY CHECKED FOR PROPER OPERATION.
   - 3.2. FLOAT SWITCHES SHALL BE TESTED AND ADJUSTED FOR CORRECT DISCHARGE LEVEL PERIODICALLY.
   - 3.3. PERIODICALLY CHECK FOR SOLIDS CARRYOVER FROM THE SEPTIC TANK.
4. ABSORPTION FACILITIES:
   - 4.1. KEEP TREES AWAY FROM THE IMMEDIATE AREA OF THE ABSORPTION FIELD AS THEIR ROOTS MAY ENTER AND CLOG THE SYSTEM.
   - 4.2. DO NOT PAVE OR BUILD STRUCTURES OVER AN ABSORPTION FACILITY.
   - 4.3. RUNOFF TO THE ABSORPTION AREA SHOULD BE ELIMINATED BY REGRADING, DITCHING OR BERMING SURROUNDING AREAS.
   - 4.4. PERIODICALLY OBSERVE THE ABSORPTION FACILITY FOR SURFACE DISCHARGE OR PONDING OF EFFLUENT.



INDIVIDUAL DRIVEWAY PLAN
SCALE: 1" = 40'



LEGEND:

- EXISTING PROPERTY LINE
- EXISTING PROPERTY LINE TO BE EXTINGUISHED
- ADJOINING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING GRAVEL ROAD
- EXISTING WELL
- EXISTING STONEWALL
- EXISTING TREE LINE
- EXISTING TREE
- PERCOLATION TEST LOCATION
- DEEP TEST LOCATION
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SDS AREA
- PROPOSED SDS LATERAL
- S — PROPOSED SEWER LINE
- PROPOSED SEWER CLEANOUT
- PROPOSED WELL
- WS — PROPOSED WATER SERVICE LINE

SCHEDULE OF REGULATIONS (R-40 ZONING DISTRICT) & LOT CONFORMANCE TABLE:

PARAMETER	REQUIREMENT	LOT #1	LOT #2	LOT #3	LOT #4	LOT #5
LOT AREA:	40,000 SQUARE FEET MIN.	63,173 SF	69,147 SF	132,701 SF	158,075 SF	141,496 SF
LOT WIDTH:	125 FEET MINIMUM	164.5 FEET	195.5 FEET	281.2 FEET	263.6 FEET	369.7 FEET
LOT DEPTH:	125 FEET MINIMUM	273.9 FEET	369.6 FEET	266.6 FEET	444.9 FEET	371.5 FEET
YARD SETBACKS:						
FRONT YARD (1):	75 FEET MINIMUM	88.9 FEET	285.3 FEET	413.9 FEET	402.5 FEET	289.6 FEET
FRONT YARD (2):	50 FEET MINIMUM	64.0 FEET	92.3 FEET	97.9 FEET	383.4 FEET	220.1 FEET
SIDE YARD:	25 FEET MINIMUM	41.5 FEET	36.7 FEET	57.6 FEET	112.7 FEET	88.1 FEET
REAR YARD:	50 FEET MINIMUM	173.5 FEET	101.7 FEET	260.6 FEET	61.1 FEET	124.8 FEET
BUILDING HEIGHT:	35 FEET, 2.5 STORIES MAX.	≤ 35 FEET	≤ 35 FEET	≤ 35 FEET	≤ 35 FEET	≤ 35 FEET
LOT COVERAGE:	12% MAXIMUM	≤ 12%	≤ 12%	≤ 12%	≤ 12%	≤ 12%

NOTE: SEE PLAN FOR ACTUAL DIMENSIONS
(1) MEASURED FROM THE CENTERLINE OF THE ROAD.
(2) MEASURED FROM THE FRONT LOT LINE.

SEWAGE DISPOSAL SYSTEM DESIGN NOTES:

SEWAGE DISPOSAL SYSTEM DESIGNS BASED ON 2, 3 OR 4 BEDROOM RESIDENTIAL DWELLING MAX. FOR THE PROPOSED DWELLINGS. DESIGN FLOW IS BASED UPON NEW STANDARD FIXTURES. THESE INCLUDE: 1.5 GPF MAX. TOILET, 3.0 GPM MAX. FAUCETS/SHOWERHEADS. DESIGN FLOW = 220 GPD (2 BEDROOMS @ 110 GPD/BEDROOM); (3 BEDROOMS @ 330 GPD/BEDROOM); 440 GPD (4 BEDROOMS @ 110 GPD/BEDROOM).

NO FOOTING OR ROOF DRAINS, WATER SOFTENER BACKWASHES, SHALL BE ALLOWED TO ENTER THE SYSTEM.

NO KITCHEN SINK GARBAGE DISPOSAL SYSTEMS ARE PLANNED OR INCLUDED IN THE DESIGN.

THE PROPOSED SEPTIC TANK SIZE IS 1,000 GALLONS FOR 2 & 3 BEDROOM DWELLINGS AND 1,250 GALLONS FOR 4 BEDROOM DWELLINGS, WHICH MEETS THE REQUIREMENTS AS SET FORTH BY THE DUTCHESS COUNTY DEPARTMENT OF HEALTH (DCDOH) FOR THE DESIGN FLOW.

ALL UTILITY LINES IN THE VICINITY OF THE PROPOSED CONSTRUCTION SHALL BE CLEARLY MARKED OUT PRIOR TO ANY GROUND-BREAKING.

SEWAGE DISPOSAL SYSTEMS SHALL NOT BE INSTALLED IN FROZEN OR WET SOILS.

DEEP TEST HOLE TABLE:

TEST PITS OBSERVED ON MAY 3, 2017, AND WITNESSED BY DANIEL KEELER, P.E. OF THE DCDOH

HOLE #	LOT #	TOTAL DEPTH	ROCK DEPTH	WATER DEPTH	MOTTLING DEPTH	SOIL DESCRIPTION
1	4	78"	---	---	---	12" TOPSOIL; 12-78" BROWN SILT LOAM
2	4	66"	---	---	---	2" TOPSOIL; 2-66" BROWN SILTY LOAM
2A	4	72"	---	---	---	8" TOPSOIL; 8-72" BROWN SILTY LOAM
3	5	42"	---	---	---	10" TOPSOIL; 10-42" BROWN SILT LOAM WTH SAND
4	5	54"	54"	---	---	10" TOPSOIL; 10-54" BROWN SILT LOAM WTH SAND
5	5	60"	50"	---	---	10" TOPSOIL; 10-50" BROWN SILT LOAM WTH SAND; 50-60" SHALE
6	1	60"	60"	---	---	10" TOPSOIL; 10-60" BROWN SILT LOAM/CLAY LOAM
7	2	36"	36"	---	---	6" TOPSOIL; 6-36" BROWN SILTY LOAM
8	2	84"	---	---	---	3" TOPSOIL; 3-84" BROWN SILTY CLAY LOAM
9	2	84"	---	---	---	3" TOPSOIL; 3-84" BROWN SILTY CLAY LOAM
10	3	72"	72"	---	---	6" TOPSOIL; 6-72" BROWN SANDY SILT LOAM
11	3	72"	72"	---	---	6" TOPSOIL; 6-72" GRAVELLY SILT LOAM
12	3	84"	---	---	---	6" TOPSOIL; 6-84" GRAVELLY SILT LOAM

PERC TEST TABLE:

LOT#	TEST HOLE #	DEPTH (INCHES)	DATE	RESULTS (MINUTES/INCH)
1	1	24	05/03/2017	18, 21, 26, 27, 28
2	2	24	05/03/2017	12, 18, 18, 19
3	3	24	05/03/2017	38, 45, 45
4	4	24	05/03/2017	16, 18, 18, 18
5	5	24	05/03/2017	10, 11, 14, 15
2	2A	24	05/07/2020	12, 16, 19, 19, 19
3	3A	24	05/07/2020	30, 30, 32, 33, 33
4	4A	24	05/07/2020	11, 19, 19, 19, 19
5	5A	24	05/07/2020	18, 27, 27, 27

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.

SIGHT DISTANCE NOTES:

THE DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS (DCDPW) GUIDELINES FOR DRIVEWAY SIGHT DISTANCES WERE USED FOR THE DRIVEWAY ON COUNTY ROAD 28. FOR ROADS WITH A SPEED LIMIT OF 40 MPH, DCDPW DESIGN TABLES CALL FOR A DRIVEWAY SIGHT DISTANCE (DSD) OF 445 FEET TO THE LEFT AND RIGHT, TURNING SITE DISTANCE (TSD) OF 325 FEET TO THE LEFT, AND STOPPING SIGHT DISTANCE (SSD) OF 305' TO THE RIGHT. THE MEASURED SIGHT DISTANCES AT EACH OF THE PROPOSED DRIVEWAYS ARE AS FOLLOWS:

LOT 5 EXISTING DRIVEWAY ON OLD HOPEWELL ROAD (CR28):
DSD LEFT = ±221 FEET
DSD LEFT = ±317 FEET (USING 24 INCH OBJECT HEIGHT)
DSD RIGHT = >1,200 FEET
TSD LEFT = ±347 FEET
SSD RIGHT = ±860 FEET

THE TOWN OF WAPPINGER GUIDELINES WERE USED FOR THE DRIVEWAYS ON PINE RIDGE DRIVE. FOR ROADS WITH A SPEED LIMIT OF 30 MPH, TOWN DESIGN TABLES CALL FOR A MINIMUM STOP LINE SIGHT DISTANCE (SLSD) OF 350 FEET TO THE LEFT AND 300 FEET TO THE RIGHT. THE MEASURED SIGHT DISTANCES AT EACH OF THE PROPOSED DRIVEWAYS ARE AS FOLLOWS:

LOTS 1 & 2 COMMON DRIVEWAY ON PINE RIDGE DRIVE:
DSD LEFT = ±680 FEET (REQUIRES VEGETATION TO BE REMOVED ALONG RIGHT-OF-WAY)
DSD RIGHT = ±318 FEET (REQUIRES VEGETATION TO BE REMOVED ALONG RIGHT-OF-WAY)
SSD LEFT = ±278 FEET
SSD RIGHT = ±268 FEET

LOT 4 EXISTING UTILITY EASEMENT ACCESS DRIVE ON PINE RIDGE DRIVE:
DSD LEFT = ±495 FEET (TO INTERSECTION WITH OLD HOPEWELL ROAD)
DSD RIGHT = ±193 FEET (REQUIRES VEGETATION TO BE REMOVED ALONG RIGHT-OF-WAY)
SSD LEFT = ±463 FEET
SSD RIGHT = ±235 FEET

ABSORPTION FIELD SCHEDULE

LOT#	SEWAGE DISPOSAL SYSTEM TYPE	FILL REQUIRED (FOR FILL PADS) MINIMUM	MAXIMUM	REQUIRED LATERAL LENGTH 3 BR	4 BR	FIELD CONFIGURATION 3 BEDROOM	4 BEDROOM	DOSING/ PUMPING REQUIRED	ENERGY DISSIPATION BOX	CURTAIN DRAIN
1	FILL SYSTEM	2'	3'	375 FT	N/A	7 LATS @ 54'=378 FT	N/A	NO	NO	NO
2	INGROUND	N/A	N/A	236 FT	315 FT	4 LATS @ 59'=236 FT	6 LATS @ 55'=330 FT	NO	NO	NO
3	FILL SYSTEM	1.5'	2.5'	330 FT	440 FT	6 LATS @ 55'=330 FT	N/A	NO	NO	NO
4(1)	FILL SYSTEM	2'	3'	236 FT	N/A	6 LATS @ 40'=240 FT	N/A	YES	NO	NO
5	FILL SYSTEM	3.5	±4.5	275 FT	367 FT	5 LATS @ 55'=275 FT	N/A	NO	NO	NO

(1) LOT 4 PRIMARY SYSTEM 2-BEDROOM DESIGN REQUIRES 158 LF OF TRENCH. PROVIDE 4 LATERALS @ 40 LF EA. FOR A TOTAL OF 160 LF.

ADDITIONAL NOTES FOR FILL SECTIONS

SEPTIC FILL SPECIFICATION: SAND AND GRAVEL FILL, WITH A STABILIZED PERCOLATION RATE WHICH IS LESS THAN OR EQUIVALENT TO THE PERCOLATION RATE OF THE VIRGIN SOIL, AND NO MORE THAN 15 MINUTES PER INCH SHALL BE USED.

A NEW YORK STATE REGISTERED DESIGN PROFESSIONAL SHALL CERTIFY IN WRITING THAT THE FILL MATERIAL IS IN THE PROPER LOCATION, OF THE PROPER QUANTITY AND DIMENSIONS, AND OF PROPER QUALITY. PROPER QUALITY MUST BE DEMONSTRATED BY STABILIZED PERCOLATION TESTS, THE RESULTS OF WHICH SHALL BE SUBMITTED WITH THE ENGINEER'S CERTIFICATION.

PRIOR TO THE PLACEMENT OF THE FILL, THE AREA OF THE OWTS SHALL BE CLEARED OF DEBRIS, AND ALL BRUSH, TREES, OR OTHER VEGETATION CUT TO THE LEVEL OF THE VIRGIN GROUND. NO TOPSOIL SHALL BE REMOVED UNLESS SPECIFICALLY INDICATED ON THE PLANS.

FOR MAPS WHICH REQUIRE TEST WELLS

ADVISORY: ALTHOUGH INFORMATION HAS BEEN SUBMITTED AND/OR TESTS 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.

FOR MAPS WITH EXISTING HOUSES WITH ONSITE WASTEWATER TREATMENT SYSTEMS

THE EXISTING ONSITE WASTEWATER TREATMENT SYSTEM(S) AND/OR WATER SUPPLY(IES) WERE INSTALLED PRIOR TO THE DATE OF THIS APPROVAL AND THEREFORE THIS APPROVAL SHALL NOT BE CONSTRUED TO MEAN THAT THE FUNCTIONAL ABILITY OR ADEQUACY OF THE EXISTING ONSITE WASTEWATER TREATMENT SYSTEM(S) AND/OR WATER SUPPLY(IES) ON LOT(S) #____ HAVE BEEN APPROVED OR ACCEPTED.

ANY CONSTRUCTION OF AN ONSITE WASTEWATER TREATMENT SYSTEM AND/OR WATER SUPPLY ON AN AREA OF AN EXISTING LOT(S) WHICH IS NOT EXISTING AT THE TIME OF THIS APPROVAL BUT WAS APPROVED AS PART OF THIS APPROVAL SHALL BE INSPECTED AND APPROVED BY THE DC EHSD PRIOR TO USE.

DRAWN BY: AG				CHECKED BY: MAB			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1	7/18/22	REVISED PER PB COMMENTS	ESR				
2	8/12/22	REVISED PER PB COMMENTS	ESR				

SUBDIVISION PLAN
SCALE: 1" = 40'
GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

HUDSON LAND DESIGN

STATE OF NEW YORK · ROBERT A. RIGANO · 084465 · LICENSED PROFESSIONAL ENGINEER
SEAL

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
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SUBDIVISION PLAN
KIMMEL SUBDIVISION
325 PINE RIDGE DRIVE
TOWN OF WAPPINGER
DUTCHESS COUNTY, NEW YORK
TAX ID: 6256-04-624259 & 608305; & 647304

JOB #:	2017:008
DATE:	05/16/2022
SCALE:	1" = 40'
TITLE:	SP-1
SHEET:	3 OF 5

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK EDUCATION LAW

EROSION & SEDIMENT CONTROL PLAN
SCALE: 1" = 40'
GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

LEGEND:

- EXISTING PROPERTY LINE
- EXISTING PROPERTY LINE TO BE EXTINGUISHED
- ADJOINING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING GRAVEL ROAD
- EXISTING WELL
- EXISTING STONEWALL
- EXISTING TREE LINE
- EXISTING TREE
- PERCOLATION TEST LOCATION
- DEEP TEST LOCATION
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SDS AREA
- PROPOSED SDS LATERAL
- PROPOSED SEWER LINE
- PROPOSED SEWER CLEANOUT
- PROPOSED WELL
- PROPOSED WATER SERVICE LINE
- PROPOSED SILT FENCE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CONSTRUCTION ENTRANCE

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES EMPLOYED DURING THE CONSTRUCTION PROCESS SHALL BE INSPECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE. ALL EROSION CONTROL STRUCTURES SHALL BE REPAIRED AND MAINTAINED AS NECESSARY BY THE CONTRACTOR.

2. ALL STORMWATER MANAGEMENT STRUCTURES (E.G. CATCH BASINS) SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. CATCH BASINS SHALL BE CLEANED WHEN SEDIMENT DEPTH REACHES A MAXIMUM OF ONE-HALF THE AVAILABLE SUMP DEPTH.

3. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE MEASURES SHALL MEET THE REQUIREMENTS OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

4. ANY PILE OF POTENTIALLY EROSIVE MATERIAL TEMPORARILY STOCKPILED ON THE SITE DURING THE CONSTRUCTION PROCESS SHALL BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE AND SHALL BE PROPERLY PROTECTED FROM EROSION BY A SURROUNDING SILT FENCE.

5. PERMANENT SEEDED AREAS FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH DETAIL AND SPECIFICATIONS ON THE DETAILS SHEET.

6. AREAS UNDERGOING CLEARING OR GRADING AND WHERE WORK IS DELAYED OR COMPLETED AND WILL NOT BE REDISTURBED FOR A PERIOD OF 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT VEGETATIVE COVER WITHIN 14 DAYS.

7. ON-SITE DUST CONTROL SHALL BE ACCOMPLISHED BY STANDARD METHODS OF LIGHTLY WATERING ALL EXPOSED SOIL AND RAPIDLY STABILIZING THE REGRADED AREAS WITH TOPSOIL, LOAM AND/OR SEEDING.

8. THE TOWN ENGINEER AND PROJECT ENGINEER SHALL BE NOTIFIED NO LESS THAN 48 HOURS PRIOR TO THE START OF ANY SITE WORK, AND BY SUCH NOTIFICATION, SHALL BE PROVIDED WITH THE NAME AND TELEPHONE NUMBER OF THE GENERAL CONTRACTOR RESPONSIBLE FOR SUCH WORK.

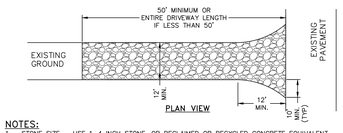
9. THE TOWN AND/OR ITS REPRESENTATIVES MAY INSPECT EROSION AND SEDIMENT CONTROL PRACTICES ON THE SITE DURING CONSTRUCTION AND RECOMMEND THAT THE CONTRACTOR INSTALL ADDITIONAL EROSION CONTROL MEASURES IF DEEMED NECESSARY TO PROTECT ANY UNDISTURBED AREAS OF THE SITE. ANY SUCH REQUESTS SHALL BE MADE DIRECTLY TO THE CONTRACTOR AND QUALIFIED PROFESSIONAL AND FOLLOWED UP WITH A WRITTEN NOTIFICATION TO THE DEVELOPER. IN ADDITION, THE PROJECT ENGINEER SHALL BE CONSULTED ON ANY SPECIAL ADDITIONS OR DELETIONS OF EROSION CONTROL MEASURES WARRANTED BY CHANGING FIELD CONDITIONS. THE NOTICE OF INTENT (NOI) MAY NEED TO BE UPDATED AS A RESULT OF THE CHANGES.

10. THE CONTRACTOR/OWNER 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, ON A MONTHLY BASIS, POST AT THE SITE A SUMMARY OF THE SITE INSPECTION ACTIVITIES IN A PUBLICLY ACCESSIBLE LOCATION.

11. THE OWNER SHALL FILE A NOI WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES AND A NOTICE OF TERMINATION (NOT) WITH THE NYSDEC FOLLOWING CONSTRUCTION ACTIVITIES.

12. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL TO FILTER WATER FOR PUMPING TO A SUITABLE LOCATION.

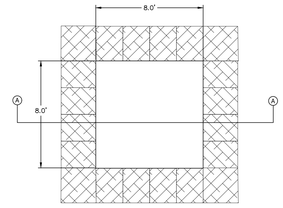
13. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED PER THE APPROVAL OF THE TOWN ENGINEER AND QUALIFIED PROFESSIONAL.

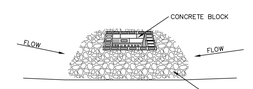


NOTES:

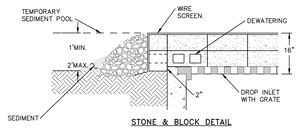
1. STONE SIZE – USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. THICKNESS – NOT LESS THAN SIX (6) INCHES.
3. WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
4. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
5. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR 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 TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

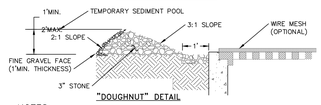




STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL

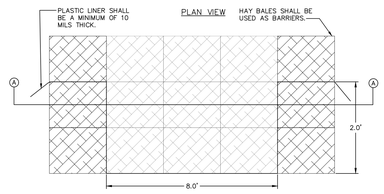


"DOUGHNUT" DETAIL

NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS. MAXIMUM DRAINAGE AREA 1 ACRE

CATCH BASIN INLET PROTECTION DETAIL
NOT TO SCALE

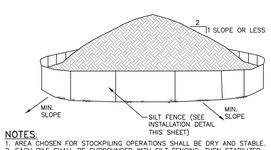


SECTION VIEW

NOTES:

1. WASHOUT STATION SHALL BE LOCATED 100' FROM ANY STORMWATER FEATURE ON SITE OR NATURAL WATERWAYS OR WETLANDS.
2. INSPECT WASHOUT STATION DAILY AND REPLACE PLASTIC LINER WHEN ANY RIPS OR TEARS ARE OBSERVED.
3. REPLACE WASHOUT STATION WHEN IT IS AT 75% OF ITS CAPACITY WITH HARDENED MATERIAL.
4. WATER ACCUMULATION IN WASHOUT AREA FROM RAINWATER SHALL BE PUMPED FROM THE STATION INTO A GRASSED AREA.

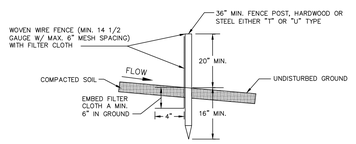
CONCRETE WASHOUT STATION DETAIL
NOT TO SCALE



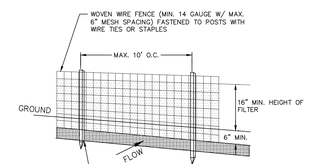
NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.

TEMPORARY SOIL STOCKPILE DETAIL
NOT TO SCALE



SECTION VIEW



PERSPECTIVE VIEW

NOTES:

1. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
2. 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 EQUAL.
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUAL.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL
NOT TO SCALE

DRAWN BY: AG				CHECKED BY: MAB			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1	7/18/22	REVISED PER PB COMMENTS	ESR				
2	8/12/22	REVISED PER PB COMMENTS	ESR				

HUDSON LAND DESIGN

SEAL

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
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EROSION & SEDIMENT CONTROL PLAN

KIMMEL SUBDIVISION

325 PINE RIDGE DRIVE
TOWN OF WAPPINGER
DUTCHESS COUNTY, NEW YORK
TAX ID: 6256-04-624259 & 608305; & 647304

JOB #:	2017:008
DATE:	05/16/2022
SCALE:	1" = 40'
TITLE:	ESC-1
SHEET:	4 OF 5

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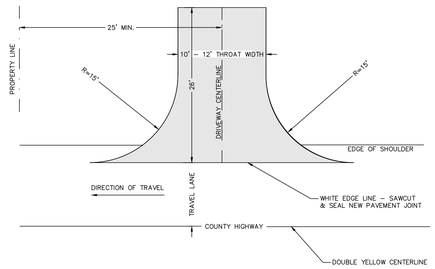
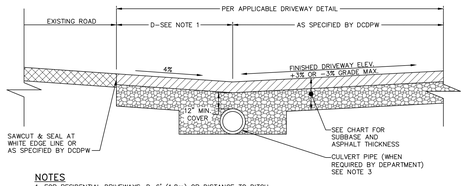


NOTES:
1. DRIVEWAY CULVERT AS REQUIRED BY DCDPW. MIN. DIAMETER IS 12", END SECTIONS ARE REQUIRED.
2. 15' RADIUS SHALL TERMINATE AT EDGE OF SHOULDER OR WHITE LINE AS DIRECTED BY DCDPW.
3. CUT/FILL SLOPES SHALL BE CONSTRUCTED NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL (2:1). DCDPW SHALL EVALUATE CUT/FILL SLOPES FOR ACCEPTABILITY.

DCDPW RESIDENTIAL DRIVEWAY DETAIL
NOT TO SCALE

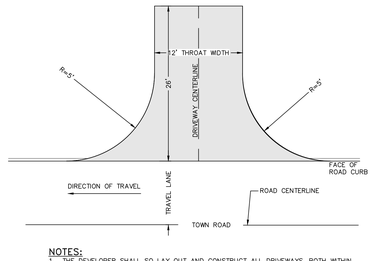


NOTES
1. FOR RESIDENTIAL DRIVEWAYS, D=6' (1.8m) OR DISTANCE TO DITCH. FOR COMMERCIAL/SUBDIVISION DRIVEWAYS D=20' (6m).
2. ASPHALT IS TO BE PLACED IN 2" (50mm) LIFTS.
3. CULVERT PIPE IS TO BE MADE OF REINFORCED CONCRETE OR A SMOOTH INTERIOR CORRUGATED METAL OR PLASTIC PIPE WITH A MIN. DIAMETER OF 12" (300mm) AND A 1% PITCH.
4. IF A DRIVEWAY PIPE IS REQUIRED END SECTIONS MUST BE INSTALLED.

ASPHALT AND SUBBASE COURSE THICKNESS		
MATERIAL/TYPE OF LOTS	SUBBASE	ASPHALT
AGRICULTURAL/FIELD ENTRANCE	4" (100mm)	N/A
SINGLE LOT	4" (100mm)	3" (75mm)
2 – 3 LOTS	6" (300mm)	4" (100mm)

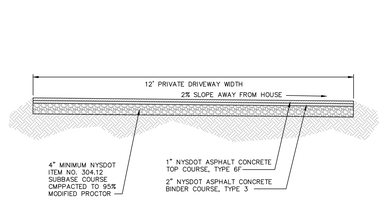
* ALL DRIVEWAY MATERIAL COURSES ARE FINISHED, COMPACED THICKNESS AND SHALL CONFORM TO NYSDOT PAVEMENT MATERIAL SPECIFICATIONS.

DCDPW DRIVEWAY SECTION WITH GRADE DETAIL
NOT TO SCALE

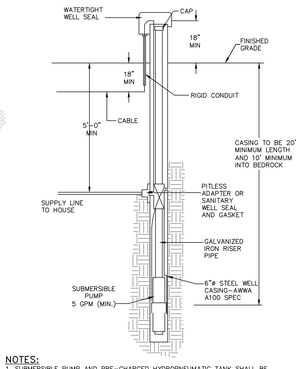


NOTES:
1. THE DEVELOPER SHALL SO LAY OUT AND CONSTRUCT ALL DRIVEWAYS, BOTH WITHIN AND OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY, THAT THE GRADE WITHIN 25 FEET OF THE EDGE OF ROAD SHALL BE NO LESS THAN 2% + OR GREATER THAN 4% + (ABSOLUTE).
2. THE FIRST 25 FEET OF ALL DRIVEWAYS SHALL BE PAVED; ANY DRIVEWAY WITH A GRADE 6% OR GREATER SHALL BE PAVED IN ITS ENTIRETY.
3. CUT/FILL SLOPES SHALL BE CONSTRUCTED NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL (2:1).

TOWN RESIDENTIAL DRIVEWAY DETAIL
NOT TO SCALE

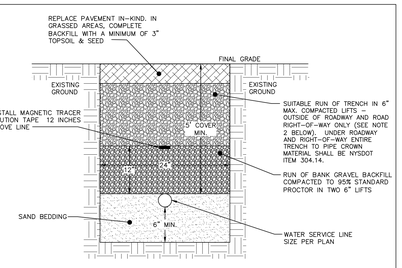


PAVED DRIVEWAY SECTION DETAIL
NOT TO SCALE



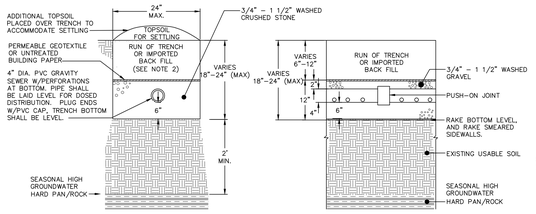
NOTES:
1. SUBMERSIBLE PUMP AND PRE-CHARGED HYDROPNEUMATIC TANK SHALL BE PROVIDED. PRESSURE TANK DRAW DOWN SHOULD NOT BE LESS THAN 20 GALLONS FOR A PRESSURE RANGE OF 30 TO 50 PSI. PUMP DISCHARGE CAPACITY SHOULD NOT EXCEED THE DEPENDABLE YIELD OF OF THE WELL AT THE HIGH END OF THE PRESSURE RANGE.
2. THE DRILLED WELL SHALL BE COMPLETED WITH A DEPENDABLE YIELD OF NOT LESS THAN 5 GPM. PROVIDE WATER TREATMENT AS REQUIRED.
3. UPON COMPLETION OF CONSTRUCTION, DISINFECT WITH CHLORINE SOLUTION, IN ACCORDANCE WITH AWWA STANDARD C654.
4. THE WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPENDIX 5B OF THE NEW YORK STATE SANITARY CODE.

WELL DETAIL
NOT TO SCALE



NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, ENLOGATED PARTICLES, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.
3. IN AREAS WHERE 5' COVER REQUIREMENT CANNOT BE MET, THE CONTRACTOR SHALL PROVIDE PIPE INSULATION TO PREVENT FREEZING.

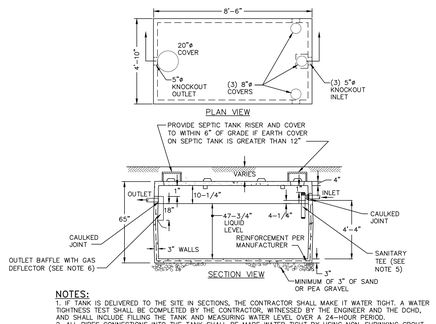
WATER SERVICE LINE TRENCH DETAIL
NOT TO SCALE



SECTION THROUGH PIPE — SECTION ALONG TRENCH

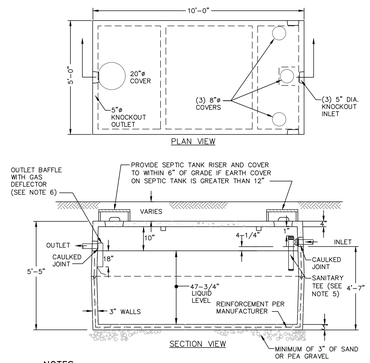
NOTES:
1. MINIMUM SPACING BETWEEN ABSORPTION FIELD TRENCHES IS 6' O.C.
2. IMPORTED BACKFILL SHALL MATCH THE QUALITY OF THE FILL SPECIFIED ON SHEET 1 FOR RAISED SYSTEMS.
3. TOTAL TRENCH DEPTH NOT TO EXCEED 24".

ABSORPTION TRENCH DETAIL
NOT TO SCALE



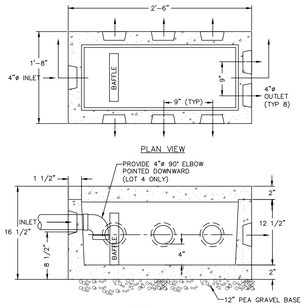
NOTES:
1. IF TANK IS DELIVERED TO THE SITE IN SECTIONS, THE CONTRACTOR SHALL MAKE IT WATER TIGHT. A WATER TIGHTNESS TEST SHALL BE COMPLETED BY THE CONTRACTOR, WITNESSED BY THE ENGINEER AND THE DCHD, AND SHALL INCLUDE FILLING THE TANK AND MEASURING WATER LEVEL OVER A 24-HOUR PERIOD.
2. ALL PIPES CONNECTIONS INTO THE TANK SHALL BE MADE WATER TIGHT BY USING NON-SHRINKING GROUT.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
4. PRE-CAST SEPTIC TANK SHOWN IS MODEL ST-1,000 BY WOODARD'S CONCRETE PRODUCTS, INC. 629 LYBOLT ROAD, BULLVILLE, NY, 10915 (845) 361-3471.
5. SANITARY TEE SHALL BE USED ON INLET SIDE TO MEET REQUIRED 16" BAFFLE DEPTH BELOW LIQUID LEVEL.
6. OUTLET BAFFLE TO MEET REQUIRED 18" BAFFLE DEPTH BELOW LIQUID LEVEL.
7. THE UNDERSIDE OF TOP OF TANK AND THE TOP OF THE BAFFLES SHALL HAVE A MINIMUM OF 1" OF CLEARANCE.

PRECAST CONCRETE 1,000 GALLON SEPTIC TANK DETAIL
NOT TO SCALE



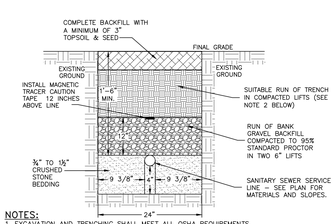
NOTES:
1. IF TANK IS DELIVERED TO THE SITE IN SECTIONS, THE CONTRACTOR SHALL MAKE IT WATER TIGHT. A WATER TIGHTNESS TEST SHALL BE COMPLETED BY THE CONTRACTOR, WITNESSED BY THE ENGINEER AND THE DCHD, AND SHALL INCLUDE FILLING THE TANK AND MEASURING WATER LEVEL OVER A 24-HOUR PERIOD.
2. ALL JOINTS SHALL BE CAULKED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
4. PRE-CAST SEPTIC TANK SHOWN IS MODEL ST-1,250 BY WOODARD'S CONCRETE PRODUCTS, INC. 629 LYBOLT ROAD, BULLVILLE, NY, 10915 (845) 361-3471.
5. SANITARY TEE SHALL BE USED ON INLET SIDE TO MEET REQUIRED 16" BAFFLE DEPTH BELOW LIQUID LEVEL.
6. OUTLET BAFFLE TO MEET REQUIRED 18" BAFFLE DEPTH BELOW LIQUID LEVEL.
7. THE UNDERSIDE OF TOP OF TANK AND THE TOP OF THE BAFFLES SHALL HAVE A MINIMUM OF 1" OF CLEARANCE.

PRECAST CONCRETE 1,250 GALLON SEPTIC TANK DETAIL
NOT TO SCALE



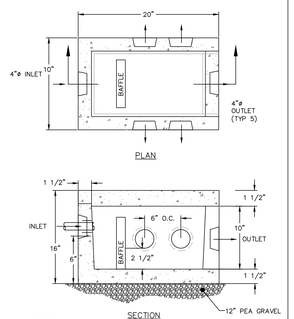
NOTES:
1. ALL OUTLETS SHALL BE SET AT THE SAME ELEVATION. DISTRIBUTION BOX SHALL BE SET LEVEL AND ALL UNUSED OUTLETS SHALL BE PLUGGED.
2. PRE-CAST DISTRIBUTION BOX SHOWN IS MODEL DB-9/8 OUTLET BOX, EXPANDED SUPPLY PRODUCTS, INC. 3330 U.S RTE. 9, COLD SPRING, NY (845) 265-3771.
3. BAFFLE SHALL BE PROVIDED BY CONTRACTOR.
4. MAXIMUM EARTH COVERAGE ABOVE DISTRIBUTION BOX SHALL NOT EXCEED 12".
5. FLOW EQUALIZERS ARE REQUIRED ON ALL OUTLETS.

PRECAST 8-OUTLET CONCRETE DISTRIBUTION BOX WITH BAFFLE DETAIL
NOT TO SCALE



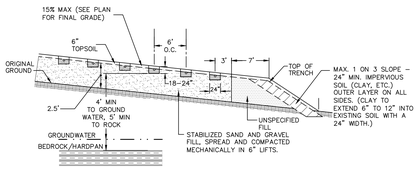
NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.

SANITARY SEWER SERVICE LINE TRENCH DETAIL
NOT TO SCALE



NOTES:
1. ALL OUTLETS SHALL BE SET AT THE SAME ELEVATION. DISTRIBUTION BOX SHALL BE SET LEVEL AND ALL UNUSED INLETS/OUTLETS SHALL BE PLUGGED.
2. PRE-CAST DISTRIBUTION BOX SHOWN IS MODEL DB-6WB 5 OUTLET BOX, WOODARD'S CONCRETE PRODUCTS, INC. 629 LYBOLT RD., BULVILLE, NY (845) 361-3471.
3. BAFFLE SHALL BE PROVIDED BY CONTRACTOR.
4. A MINIMUM OF 4" SOLID PIPE MUST BE PROVIDED BETWEEN THE DISTRIBUTION BOX AND PERFORATED LATERALS.
5. COVER OVER THE DISTRIBUTION BOX IS TO BE A MAXIMUM OF 12".

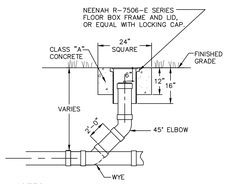
PRECAST CONCRETE DISTRIBUTION BOX WITH BAFFLE DETAIL
NOT TO SCALE



SECTION VIEW

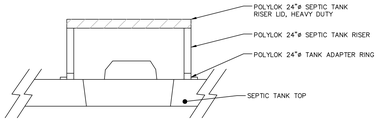
NOTE: MINIMUM 2.5' SAND AND GRAVEL FILL (2" MAX. PARTICLE SIZE), WITH A STABILIZED PERCOLATION RATE WHICH IS LESS THAN OR EQUIVALENT TO THE PERCOLATION RATE OF THE VIRGIN SOIL, AND NO MORE THAN 10 MINUTES PER INCH SHALL BE USED. THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE FILL MATERIAL IS IN THE PROPER PLACE, IS OF THE 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 ENGINEERS CERTIFICATION.

FILL PAD SECTION DETAIL
NOT TO SCALE



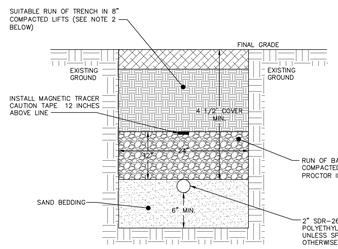
NOTES:
1. SEWER PIPE AND FITTINGS SHALL BE ASTM D-3033 OR D-3034 SDR-35.

CLEANOUT DETAIL
NOT TO SCALE



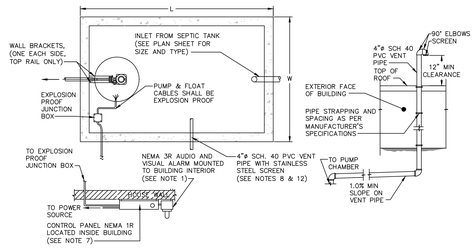
NOTES:
1. SEPTIC TANK RISER AND COVER TO BE INSTALLED WHERE EARTH COVER ON SEPTIC TANK IS GREATER THAN 12 INCHES.
2. THE COVER SHALL BE NO LESS THAN 3" AND NO MORE THAN 9" BELOW FINAL GRADE. CONTRACTOR TO INSTALL THE HEAVY DUTY LID FOR BURIED APPLICATIONS.
3. APPLY BUTYL SEALANT TO ADAPTER BOTTOM AND SECURE TO THE TANK WITH CONCRETE ANCHORS.
4. RISER SECTIONS ARE AVAILABLE IN 2, 3, 6 AND 12" SECTIONS AND SHALL BE SCREWED TOGETHER AND TO THE ADAPTER RING PER THE MANUFACTURER.
5. RISER LID INCLUDES A FACTORY INSTALLED GASKET AND STAINLESS STEEL SCREWS TO SECURE TO THE RISER.

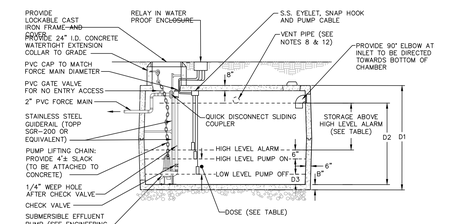
SEPTIC TANK RISER & COVER DETAIL
NOT TO SCALE



NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, ENLOGATED PARTICLES, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.

SEWER FORCEMAIN TRENCH DETAIL
NOT TO SCALE



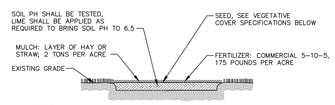


PUMP CHAMBER NOTES

1. THREE FLOAT SWITCHES SHALL BE INSTALLED: PUMP ON, PUMP OFF, AND HIGH ALARM. VISIBLE AND AUDIBLE ALARMS SHALL BE PROVIDED. THE ALARMS SHALL BE LOCATED INSIDE THE BUILDING, CLEARLY VISIBLE AND AUDIBLE.
2. ALL ELECTRICAL WORK AND MATERIAL FOR PUMP INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE.
3. AN ELECTRICAL UNDERWRITER'S CERTIFICATE FOR THE PUMP CHAMBER MUST BE PROVIDED TO THE ORANGE COUNTY DEPARTMENT OF HEALTH PRIOR TO THE ORANGE COUNTY DEPARTMENT OF HEALTH CONDUCTING A FINAL INSPECTION ON THE PUMP CHAMBER.
4. THERE SHALL BE A MINIMUM OF 2.5' COVER OVER THE CONDUIT CONVEYING THE FLOAT PUMP CABLES AND CONTROL WIRING. CONDUITS FROM ALARM BOX AND CONTROL PANEL TO RELAY PANEL AT PUMP CHAMBER SHALL SHARE THE SAME TRENCH.
5. PROVIDE ADDITIONAL CONDUIT FOR CONTROL WIRING AS PER THE MANUFACTURERS RECOMMENDATIONS. MINIMUM COVER SHALL BE 2.5'.
6. AN ALUMINUM WARNING PLATE SHALL BE RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE CHAMBER COVER. THE PLATE SHALL BE A MINIMUM OF 12"x12" AND SHALL BE ENGRAVED WITH THE FOLLOWING LANGUAGE: "WARNING – CONFINED SPACE – ENTRY PROHIBITED WITHOUT AUTHORIZATION – CALL OWNER FOR APPROVAL TO ACCESS".
7. CONTROL PANELS SHALL BE LOCATED WITHIN THE BUILDING.
8. 4" ø SDR PVC SCREENED VENT SHALL EXTEND TO BUILDING ROOF LINE (REFER TO NOTE 12).
9. A WATER TIGHTNESS TEST SHALL BE COMPLETED BY THE CONTRACTOR, WITNESSED BY THE ENGINEER, AND SHALL INCLUDE FILLING THE TANK AND MEASURING WATER LEVEL.
10. CONTRACTOR SHALL CAULK INLET AND OUTLET JOINTS AND OTHER CONDUIT PENETRATIONS.
11. INSTALL STAINLESS STEEL GUIDE RAIL FOR PUMP REMOVAL AND MAINTENANCE.
12. LOCATION OF 4" DIA. SDR PVC VENTILATION PIPE SHALL BE APPROVED BY THE OWNER AND SHALL PROVIDE POSITIVE SLOPE TO SURFACE (IE: NO DIPS OR SAGS ALLOWED). THE INVERT OF THE VENT PIPE SHALL MATCH INLET INVERT. THE VENT PIPE SHALL BE SECURELY MOUNTED TO THE EXTERIOR OF THE BUILDING AND SHALL VENT A MINIMUM OF 12" ABOVE ROOF LINE. VENT PIPE AND BRACKETS TO MATCH EXTERIOR HOUSE COLOR. BUILDING OWNER HAS THE OPTION TO TIE VENT TO INTERIOR VENTING PIPING.
13. ALL ELECTRIC SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION.
14. A PROFESSIONAL ENGINEER SHALL CERTIFY INSTALLATION AND TESTING OF PUMP CHAMBER TO ORANGE COUNTY DEPARTMENT OF HEALTH.
15. PRE-CAST PUMP CHAMBER SHOWN IS A 2,000 GALLON HEAVY DUTY TANK BY WOODARDS CONCRETE PRODUCTS, INC. 629 LYBOLT RD, BULLVILLE, NY (845) 361-3471. SEE SHEET 7 FOR SPECIFIC TANK DETAILS.
16. PROVIDE AN ALL WEATHER JUNCTION BOX WITH AN OUTLET AND SCREWED COVER AT OR ABOVE GRADE AT THE PUMP CHAMBER TO ALLOW FOR A PLUG IN CONNECTION FOR THE PUMP.

	PUMP CHAMBER INTERIOR DIMENSIONS						*DOSE		STORAGE (2 DAYS)						
LOT	RIM ELEVATION	LENGTH OF PIPE IN FIELD (FT.)	PIPE VOLUME (GAL)	REQ'D DOSE (GAL)	W	L	D1	D2	D3	B	DEPTH	VOLUME (GAL)	REQ'D (GAL)	DEPTH PROVIDED	VOLUME PROVIDED (GAL)	PUMP MAKE AND MODEL	FORCE MAIN SIZE	NO. OF PUMPS	PUMP TANK MODEL
4	326.5	240	153.5	115.1–1304.4	5'	10'	65"	50.5"	6"	3"	7.5"	199.9	660	28"	746	GOULDS, MODEL PE41 0.4 HP	2"	1	WOODARD'S 1,250 GAL PUMP CHAMBER

PUMP CHAMBER DETAIL
NOT TO SCALE



NOTES:
1. TOPSOIL, SEED, MULCH, AND FERTILIZE DISTURBED SOIL AREAS THAT WILL BE LEFT EXPOSED FOR 14 DAYS OR MORE.
2. SEED MIXTURE FOR USE ON LAWNS IN SUNNY AREAS:
   65% KENTUCKY BLUE GRASS BLEND — 114 POUNDS PER ACRE
   20% PERENNIAL RYEGRASS — 35 POUNDS PER ACRE
   15% FINE FESCUE — 26 POUNDS PER ACRE
   — 175 POUNDS PER ACRE
3. SEED MIXTURE FOR USE IN SHADY AREAS:
   80% BLEND OF SHADE TOLERANT KENTUCKY BLUEGRASS — 138 POUNDS PER ACRE
   20% FINE FESCUE — 37 POUNDS PER ACRE
   — 175 POUNDS PER ACRE
4. SEED BETWEEN APRIL 1ST AND MAY 15TH OR AUGUST 15TH AND OCTOBER 15TH. SEEDING MAY OCCUR BETWEEN MAY 15TH AND AUGUST 15TH IF ADEQUATE IRRIGATION IS PROVIDED.
5. TOPSOIL SHALL HAVE AT LEAST 6% BY WEIGHT OF FINE TEXTURED STABLE ORGANIC MATERIAL, AND NO GREATER THAN 20%. TOPSOIL SHALL HAVE NOT LESS THAN 20% FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15% CLAY.

TOPSOIL, SEED AND MULCH DETAIL
NOT TO SCALE

DRAWN BY: AG				CHECKED BY: MAB			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1	7/18/22	REVISED PER PB COMMENTS	ESR				
2	8/12/22	REVISED PER PB COMMENTS	ESR				

HUDSON LAND DESIGN

STATE OF NEW YORK — MICHAEL A. BODENSTEIN — 074449 — LICENSED PROFESSIONAL ENGINEER
SEAL

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING P.C.
174 MAIN ST., BEACON, NEW YORK 12508
13 CHAMBERS ST., NEWBURGH, NEW YORK 12550
PH: 845-440-6926
F: 845-440-6637

CONSTRUCTION DETAILS
KIMMEL SUBDIVISION

325 PINE RIDGE ROAD
TOWN OFWAPPINGER
DUTCHESS COUNTY, NEW YORK
TAX ID: 6256-04-624258 & 608305; & 647304

JOB #:	2017:008
DATE:	05/16/2022
SCALE:	NTS
TITLE:	CD-1
SHEET:	5 OF 5

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK EDUCATION LAW