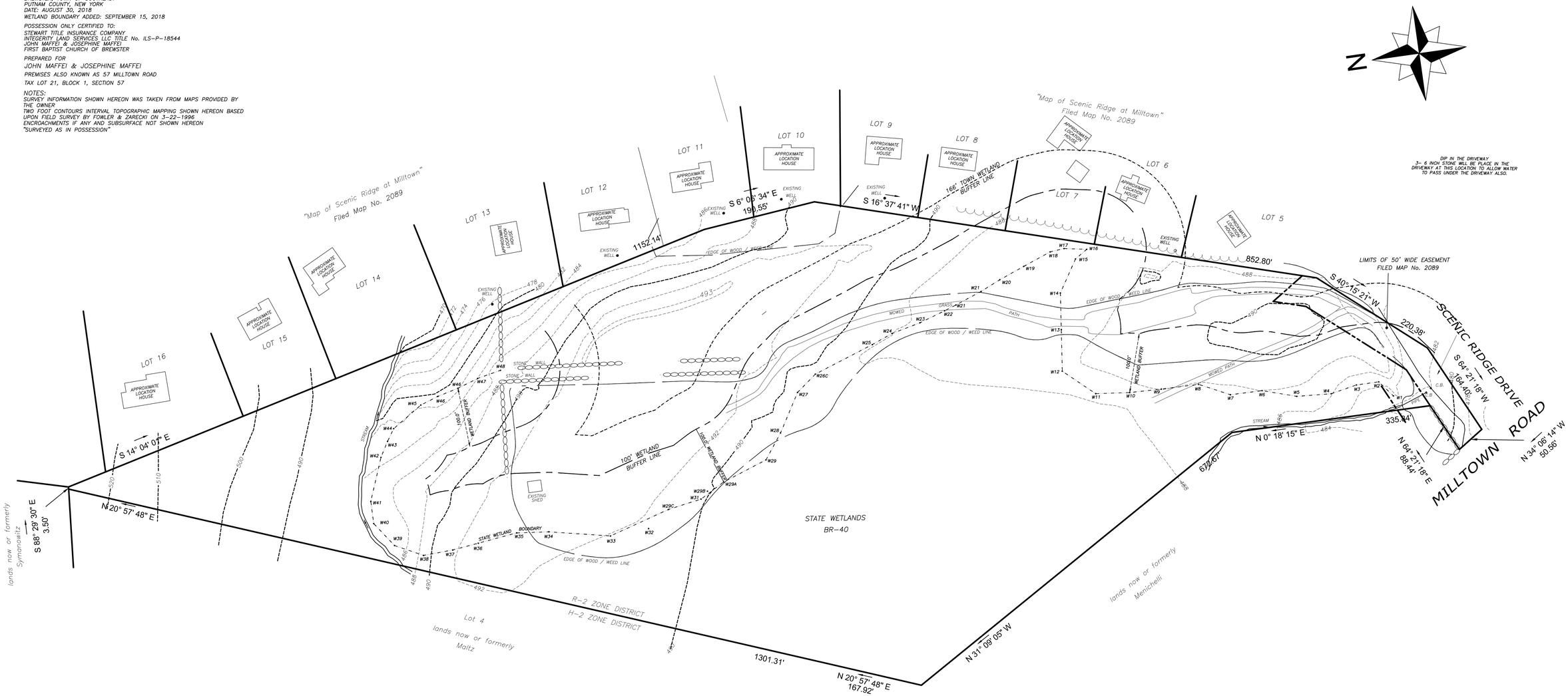
SURVEY OF LOT 3 AS SHOWN ON: FINAL LANDS OF MALTZ – PLAT II, COMEMERCIAL SUBDIVISION PLAT" FILED IN PUTNAM COUNTY CLERK'S OFFICE ON NOVEMBER 18, 1928 AS MAP No. 1731–B

BREWSTER, TOWN OF SOUTHEAST
PUTNAM COUNTY, NEW YORK
DATE: AUGUST 30, 2018
WETLAND BOUNDARY ADDED: SEPTEMBER 15, 2018

POSSESSION ONLY CERTIFIED TO:
STEWART TITLE INSURANCE COMPANY
INTEGERITY LAND SERVICES LLC TITLE No. ILS–P–18544
JOHN MAFFEI & JOSEPHINE MAFFEI
FIRST BAPTIST CHURCH OF BREWSTER

PREPARED FOR
JOHN MAFFEI & JOSEPHINE MAFFEI
PREMISES ALSO KNOWN AS 57 MILLTOWN ROAD
TAX LOT 21, BLOCK 1, SECTION 57

NOTES:
SURVEY INFORMATION SHOWN HEREON WAS TAKEN FROM MAPS PROVIDED BY THE OWNER
TWO FOOT CONTOURS INTERVAL TOPOGRAPHIC MAPPING SHOWN HEREON BASED UPON FIELD SURVEY BY FOWLER & ZARECKI ON 3–22–1996
ENCROACHMENTS IF ANY AND SUBSURFACE NOT SHOWN HEREON
"SURVEYED AS IN POSSESSION"



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WETLANDS FLAGGED BY TED KOZLOWSKI, 8-25-18 AND LOCATED BY RICHARD J. DOMATO L.S. DATED 9-15-18

SURVEY AND TOPOGRAPHY TAKEN FROM SURVEY PREPARED BY RICHARD J. DOMATO DATED AUGUST 30, 2018. DATUM IS NAVD88

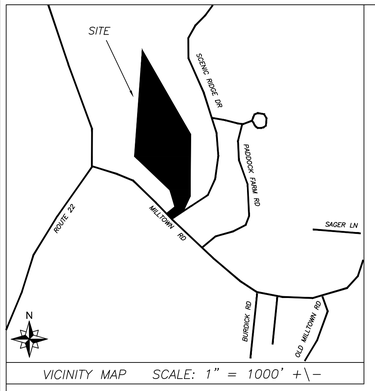
ALTERATION OF THIS DRAWING EXCEPT BY A LICENSED P.E. OR ARCHITECT OR LICENSED LAND SURVEYOR IS ILLEGAL. ANY ALTERATION BY A P.E. OR ARCHITECT OR SURVEYOR MUST BE INDICATED AND BEAR HIS SEAL SIGNATURE AND DATE OF ALTERATION.

No.	DATE	
2	2-18-19	HD / DEP COMMENTS
1	11-18-18	HD / DEP COMMENTS

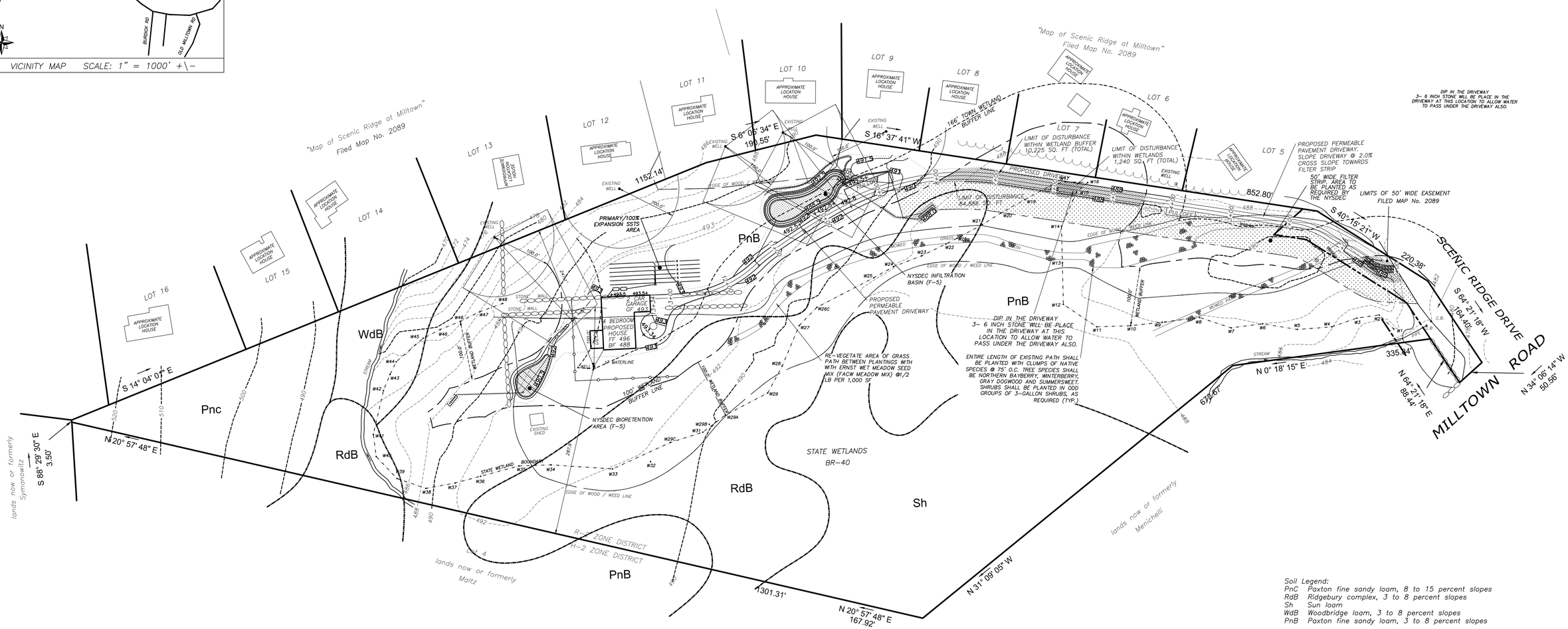
JOHN KARELL, JR. P.E.
121 CUSHMAN ROAD
PATTERSON, NEW YORK 12563
845-878-7894 phone
845-878-4939 fax
jack4911@yahoo.com

STATE OF NEW YORK
JOHN KARELL, JR.
No. 53277
LICENSED PROFESSIONAL ENGINEER

OWNER: JOHN & JOSEPHINE MAFFEI 57 MILLTOWN ROAD SOUTHEAST (T)	SCALE: 1" = 80'	LATEST REVISION:
	DATED: SEPT. 27, 2018	SHEET No.
EXISTING CONDITIONS	TAX MAP 57-1-21	E-1



VICINITY MAP SCALE: 1" = 1000' +\-



Soil Legend:
PnC Paxton fine sandy loam, 8 to 15 percent slopes
RdB Ridgebury complex, 3 to 8 percent slopes
Sh Sun loam
WdB Woodbridge loam, 3 to 8 percent slopes
PnB Paxton fine sandy loam, 3 to 8 percent slopes

SURVEY OF LOT 3 AS SHOWN ON: FINAL LANDS OF MALTZ - PLAT II, COMEMERCIAL SUBDIVISION PLAT" FILED IN PUTNAM COUNTY CLERK'S OFFICE ON NOVEMBER 18, 1928 AS MAP No. 1731-B

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No.	DATE	
5	6-21-19	TOWN COMMENTS
4	5-8-19	TOWN COMMENTS
3	3-27-19	TOWN COMMENTS
2	2-18-19	HD / DEP COMMENTS
1	11-18-18	HD / DEP COMMENTS

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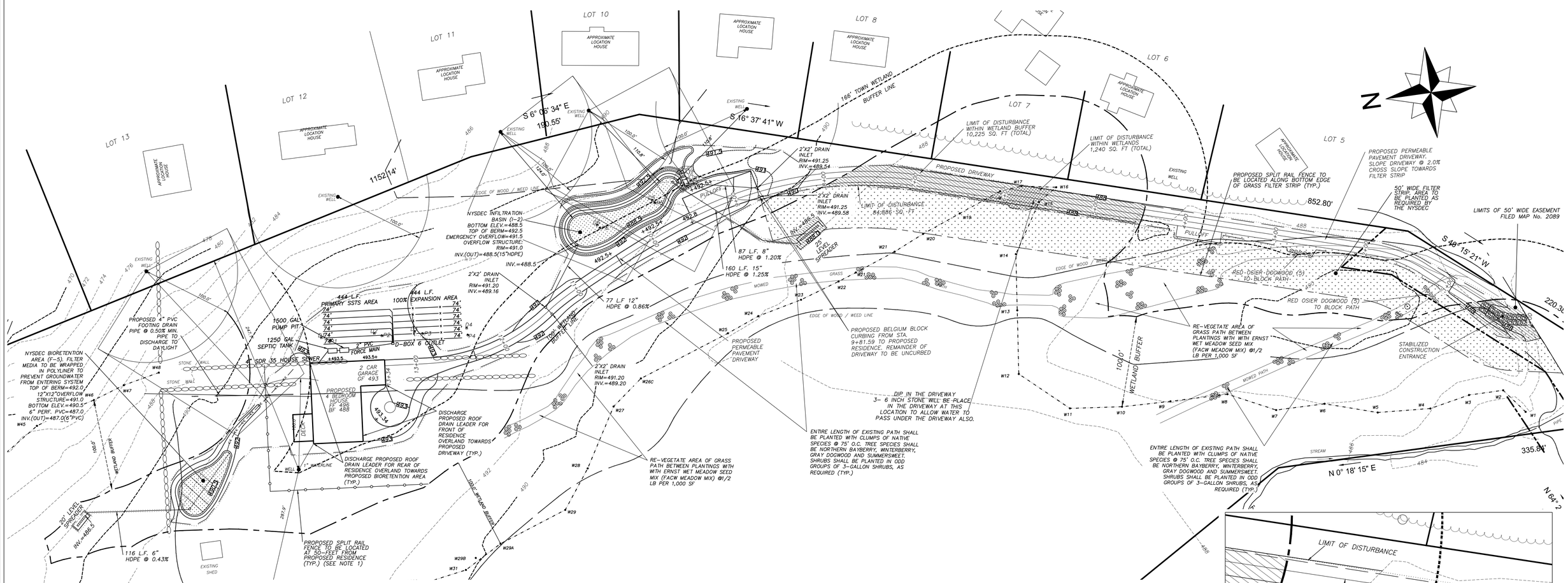
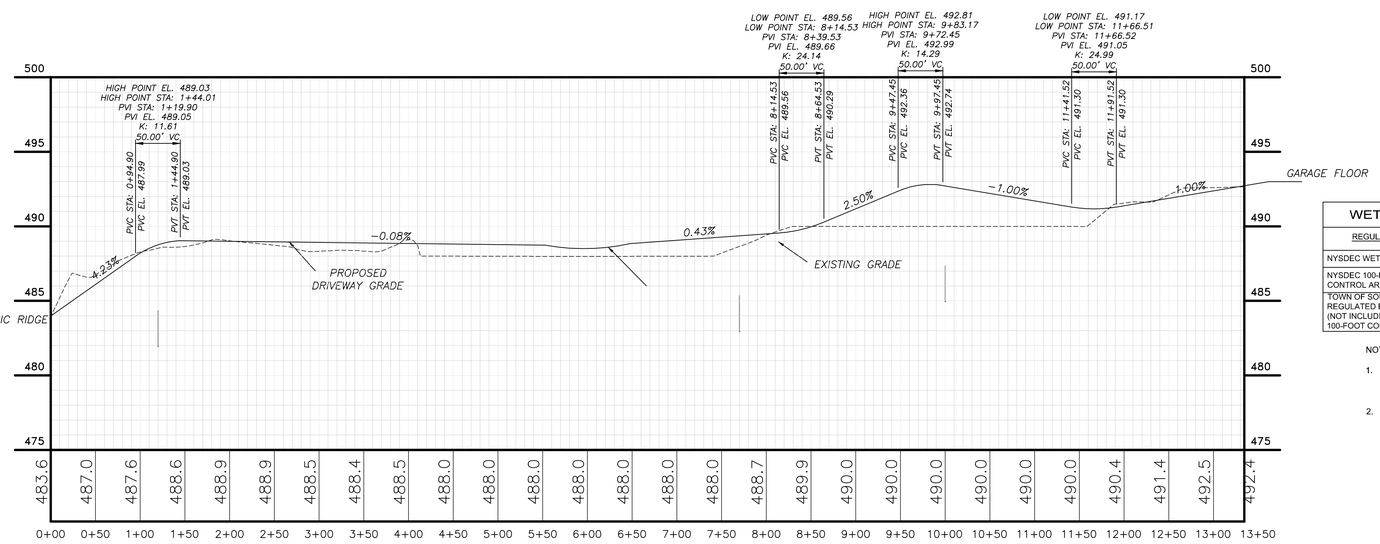
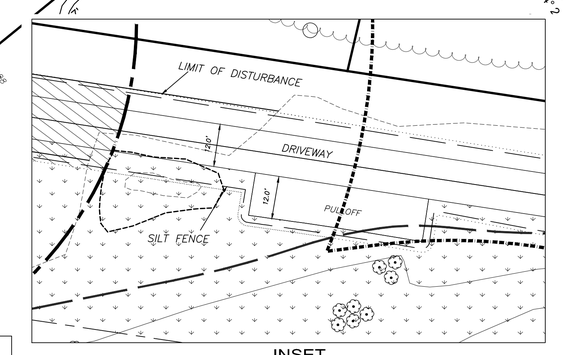
OWNER:	SCALE:	LATEST REVISION:
JOHN & JOSEPHINE MAFFEI 57 MILLTOWN ROAD SOUTHEAST (T)	1" = 80'	
	DATED: SEPT. 27, 2018	SHEET No.
OVERALL SITE PLAN	TAX MAP 57-1-21	S-1





PROFILE SCALE:
HORIZ: 1"= 80'
VERT: 1" = 5'



INSET
SCALE: 1" = 20'

WETLAND DISTURBANCE TABLE	
REGULATED AREA	TOTAL AREA OF DISTURBANCE (S.F.)
NYSDEC WETLAND AREA	1,240-SF
NYSDEC 100-FOOT WETLAND CONTROL AREA	10,225-SF
TOWN OF SOUTHEAST 166-FOOT REGULATED BUFFER AREA (NOT INCLUDING NYSDEC 100-FOOT CONTROL AREA)	37,352-SF

NOTE:

1. ALL FIELD AREAS OUTSIDE OF THE 50-FOOT LAWN AREA SHALL BE MOWED A MAXIMUM OF TWICE A YEAR, AS REQUIRED.
2. A THREE YEAR WETLAND BUFFER MONITORING AND MAINTENANCE PLAN SHALL BE PROVIDED, AS REQUIRED.

SURVEY OF LOT 3 AS SHOWN ON: FINAL LANDS OF MALTZ - PLAT II, COMEMERCIAL SUBDIVISION PLAT" FILED IN PUTNAM COUNTY CLERK'S OFFICE ON NOVEMBER 18, 1928 AS MAP No. 1731-B

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No.	DATE	

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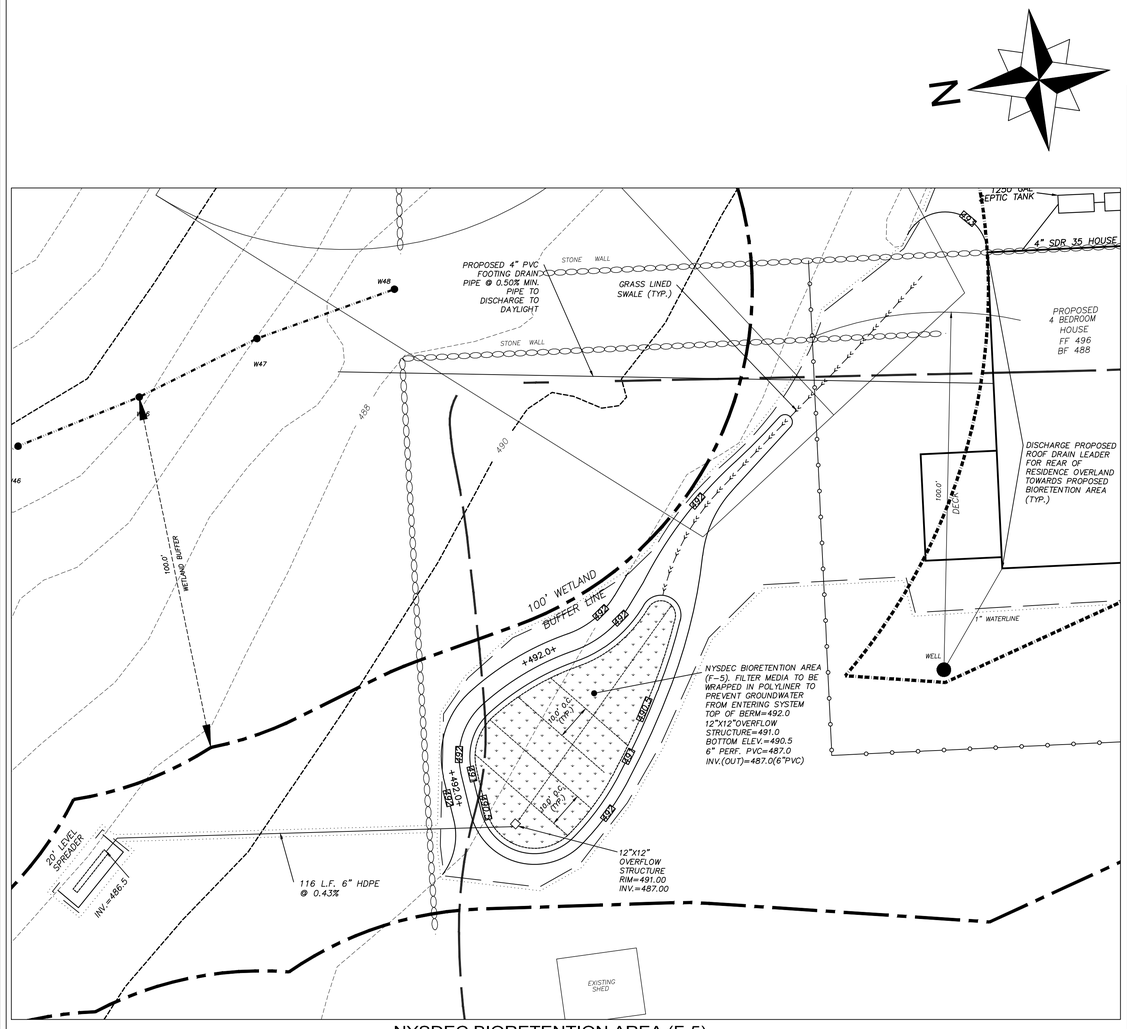
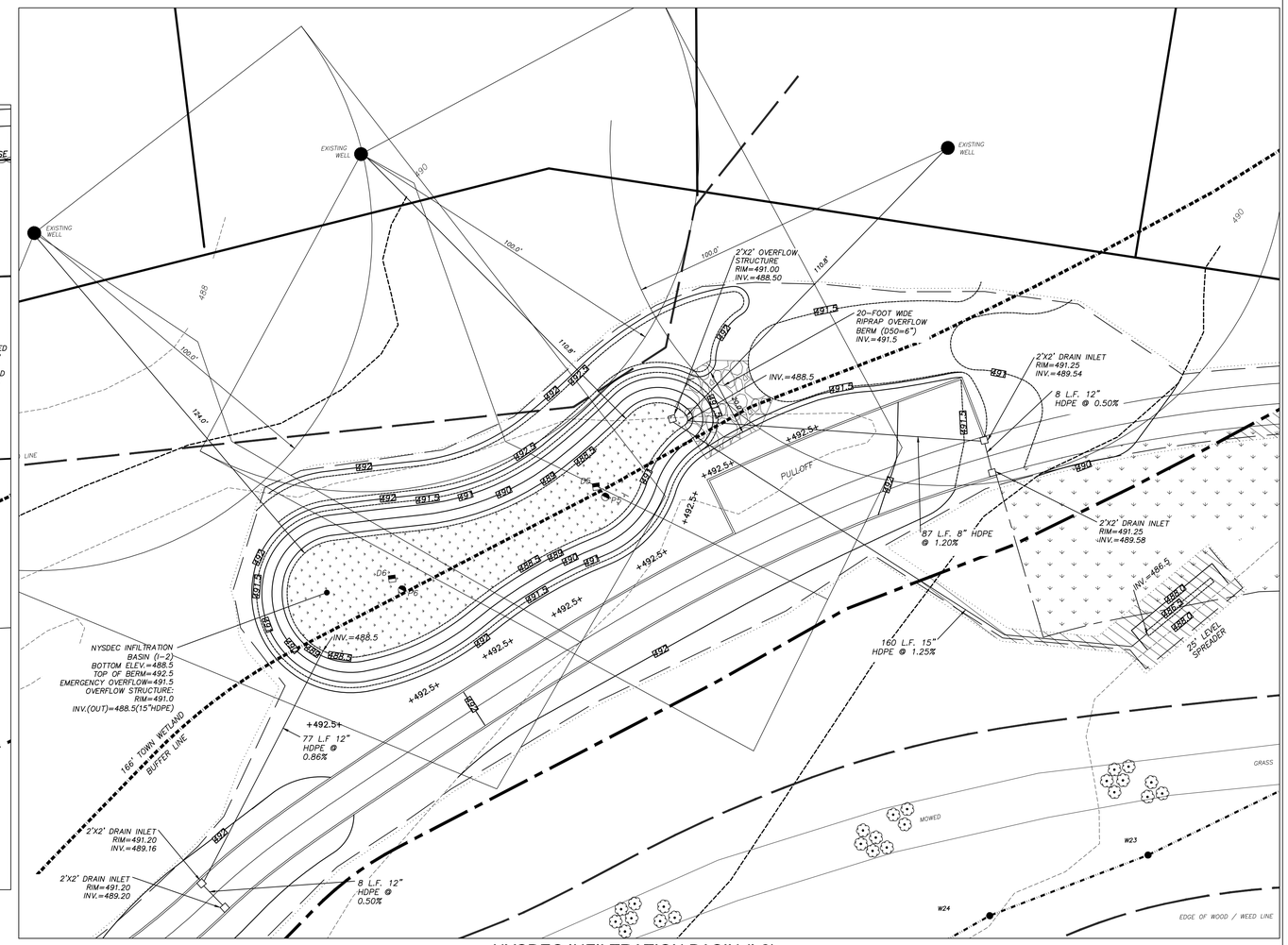
845-878-4939 fax
jack4911@yahoo.com

STATE OF NEW YORK · JOHN KARELL, JR. · No. 53277 · LICENSED PROFESSIONAL ENGINEER

OWNER: JOHN & JOSEPHINE MAFFEI, 57 MILLTOWN ROAD, SOUTHEAST (T)	SCALE: 1" = 50'	LATEST REVISION:
	DATED: JUNE 21, 2019	SHEET No.
SITE PLAN	TAX MAP 57-1-21	S-2



NYSDEC BIORETENTION AREA (F-5)
SCALE: 1" = 20'



NYSDEC INFILTRATION BASIN (I-2)
SCALE: 1" = 20'

SURVEY OF LOT 3 AS SHOWN ON: FINAL LANDS OF MALTZ - PLAT II, COMEMERCIAL SUBDIVISION PLAT" FILED IN PUTNAM COUNTY CLERK'S OFFICE ON NOVEMBER 18, 1926 AS MAP No. 1731-B

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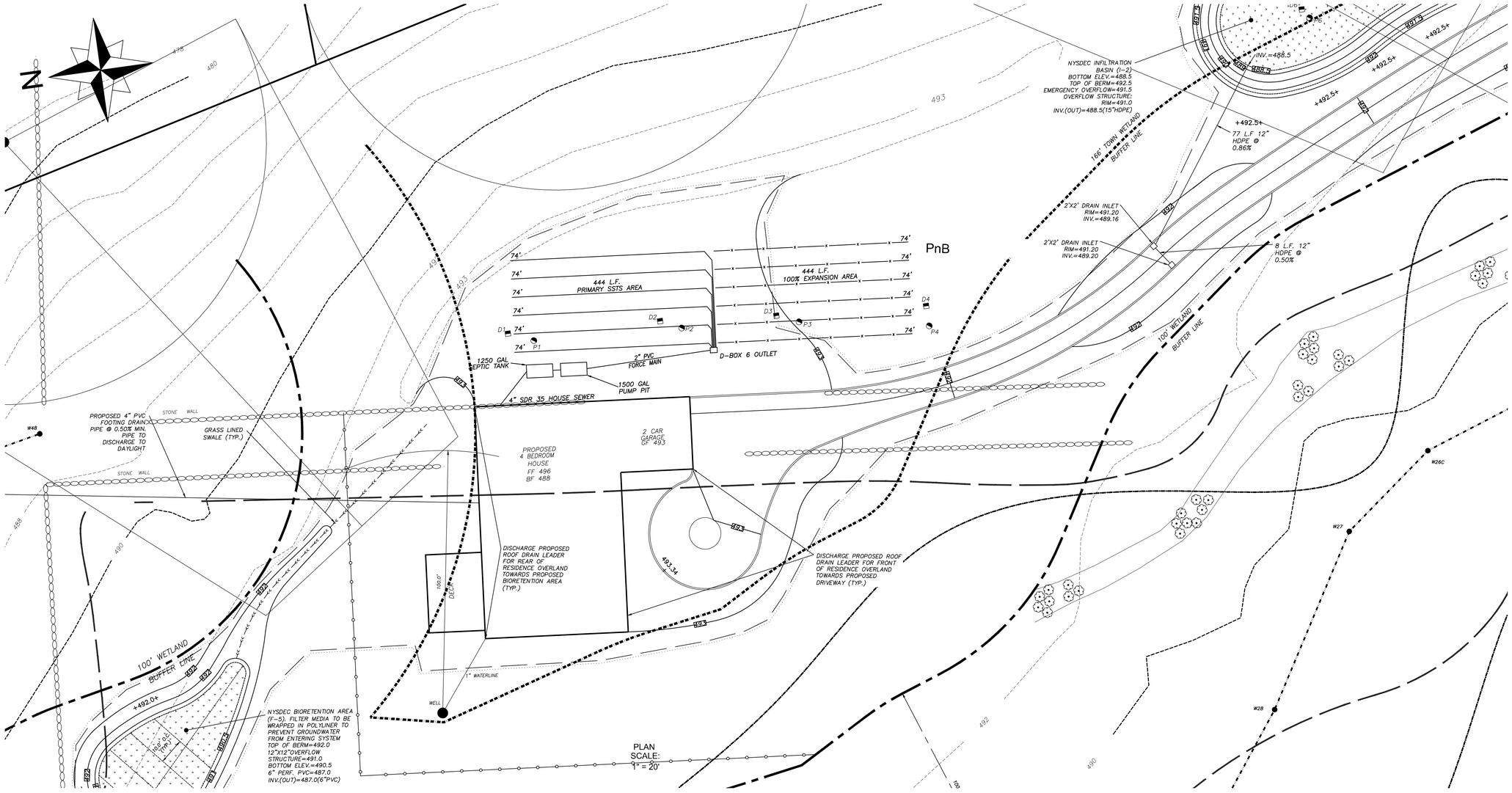
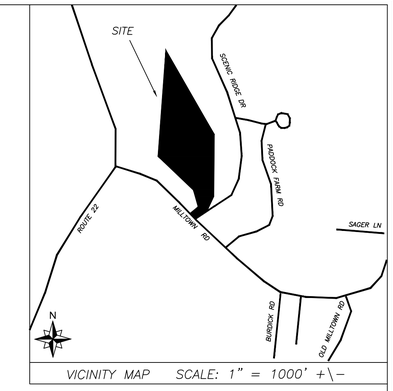
OWNER:	SCALE:	LATEST REVISION:
JOHN & JOSEPHINE MAFFEI 57 MILLTOWN ROAD SOUTHEAST (T)	1" = 20'	
	DATED: JUNE 21, 2019	SHEET No.
STORMWATER MANAGEMENT AREA PLAN	TAX MAP 57-1-21	S-3





VICINITY MAP SCALE: 1" = 1000' +\-

SOIL TESTING

HOLES

D1 4" topsoil, 4"-2 ft yellow brown silty sandy loam, 2-7 ft medium brown sandy loam, with trace of clay, no groundwater or rock
D2 same as D # 1
D3 same as D # 1
D4 same as D # 1
DEEPS INSPECTED 9/27/2018

HOLES

P1 15 minutes per inch
P2 12
P3 8.6
P4 20
PRESOAK 10/3/2018
PERC 10/4/2018

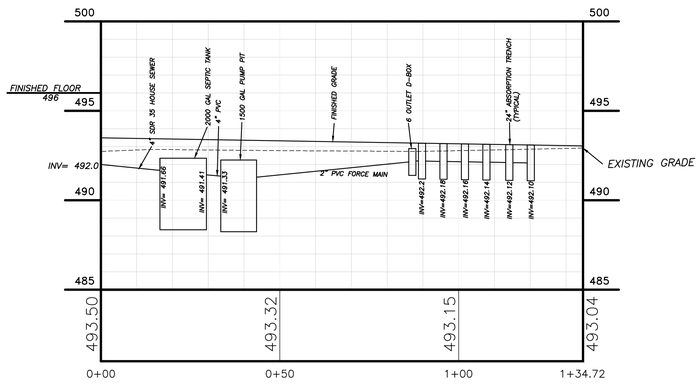
SEPTIC SYSTEM DESIGN

6 bedrooms, 150 GPD/BEDROOM, DAILY FLOW 900 GALLONS
Perc Rate 20 minutes per inch, Application Rate 0.7 GPD/SF
REQUIRED AREA: 900 DIVIDED BY 0.7 = 1,286 SQUARE FEET
REQUIRED TRENCH LENGTH: REQUIRED AREA (1,286) DIVIDED BY TRENCH WIDTH (2 FT) = 643 LINEAL FEET

ZONING SCHEDULE

TOWN OF SOUTHEAST

ZONING R-60	REQUIRED	PROPOSED
MIN LOT AREA (SF)	60,000	993,168
MIN LOT WIDTH (FT)	175	566
MIN STREETFRONTAGE (FT)	175	50.56
MIN YARD DIMENSIONS (FT)		
FRONT	50	1,380
SIDE	30/75	176/664
REAR	50	264
MAXIMUM COVERAGE		
FLOOR AREA RATIO	0.2	0.007
LOT(%)	20	0.7
MAX BUILDING HEIGHT (FT)	35	<35



PROFILE SCALE:
HORIZ: 1"=50'
VERT: 1"=10'

PUMP PIT CALCULATIONS 1500 gallon tank

INSIDE WIDTH 4'2" LENGTH 9'9" FT
INSIDE HEIGHT AT INVERT 5'6"
4.17x9.75x5.42 = 217 CF; 217 X 7.48 = 1620 GAL; 305 GAL/FT, 25.4 GAL/IN
GRADE AT TANK 492
TOP OF TANK 491' 6"
OUTSIDE TANK BOTTOM 484'10"
INSIDE TANK BOTTOM 485'2"

DEPTH INVERT IN: 490'8"
DEPTH TO INVERT IN = 5'6"
PUMP 6" OFF BOTTOM 485'8"
PUMP OFF 485'8"
PUMP ON 486'8" (12" DOSE)
ALARM 486'11"
VOLUME ABOVE ALARM 490' 8"-486'11" = 3'9" = 1140 GALLONS

PUMP NOTES:

1. All electrical work and material for pump installation shall comply with the National Electrical Code."
2. An electrical Underwriter's Certificate for the pump chamber must be provided to the Department prior to the Department conducting a final inspection on the pump chamber.
3. The pump control panel and alarms shall be located inside the house.
4. The pump and the alarm shall be on separate circuits.
5. An all weather junction box with an outlet and screwed cover at or above grade at the pump chamber shall be provided to allow for a plug in connection for the pump(s).

CAMPBELL LIGHT DUTY MANHOLE
MODEL 1302 FRAME AND COVER
CAMPBELL LIGHT DUTY MANHOLE
MODEL 1302 FRAME AND COVER
CAMPBELL LIGHT DUTY MANHOLE
MODEL 1302 FRAME AND COVER
CAMPBELL LIGHT DUTY MANHOLE
MODEL 1302 FRAME AND COVER

NOTE:
EXPANSION AREA OPPOSITE PRIMARY AREA (BEHIND PRIMARY ON PROFILE)

NOTES:

1. **OWNER: John and Josaphine Maffei, 83 Park Avenue, West Harrison, NY, 10604**
2. **SITE ADDRESS: 57 Milltown Road, Southeast (T)**
3. **WATERSHED: New York City, East Branch Reservior**
4. **All pipes connecting to all tankage and boxes shall be cut flush with the inside wall of the tank or box.**
5. **Prior to any excavation all underground utilities must be located. Call 1-800-962-7962.**
6. **Slope primary and expansion area: 1%.**
7. **Construction Start Date: March 1, 2019**
   Finish Date: 12/31/2020
8. **Soil characteristics: 4 inches topsoil; 3 feet silty loam, 3-7 ft clay loam**
9. **Soil percolation rate: 16-20 minutes per inch**
10. **Design based upon 6 bedrooms, 900 gpd**
11. **Proposed Septic Tank Size: 2000 gallons;Pump pit 1500 gallons, dose 304 gallons 12 inches**
12. **Proposed absorption trenches 650 linear feet.**
13. **Fill -none**
14. **Soils - Paxton Fine Sandy Loam PnC 8-15%, PnB 3-8%**
    Ridgebury Loam (RdB); Sun Loam (Sh); Woodbridge Loam (WdB)
15. **Area of disturbance - 75,800 SQ. FT.**
16. **Final Lands of Maltz, Plat II, Commercial Subdivision Plat, Lot # 3, , Filed Map #. 1731-B filed. November 18,, 1982**
17. **Map datum - NAVD 88 (North American Vertical Datum 1988)**
18. **Property 22.8 acres**
19. **Topographic survey by Richard Domato, # 49418, Mt Vernon, NY, 10550, August 30, 2018, updated September 15, 2018 locating wetlands flags, placed by Ted Kozlowski on August 25, 2018.**
20. **No existing or proposed wells within 100 feet of the proposed SSTS area, 200 feet if in Direct line of drainage.**

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No.	DATE	
4	6-21-19	TOWN COMMENTS
3	5-1-19	REVISED SSTS LAYOUT
2	2-18-19	HD / DEP COMMENTS
1	11-18-18	HD / DEP COMMENTS

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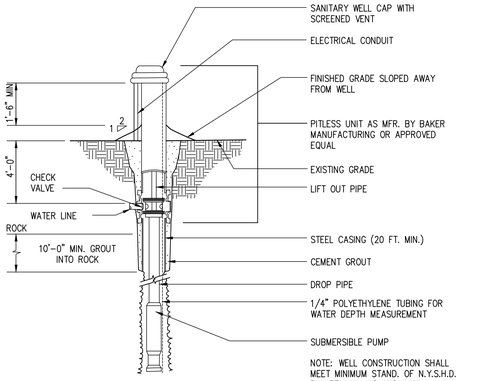
STATE OF NEW YORK · JOHN KARELL, JR. · No. 53277 · LICENSED PROFESSIONAL ENGINEER

OWNER:
JOHN & JOSEPHINE MAFFEI
57 MILLTOWN ROAD
SOUTHEAST (T)

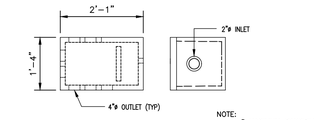
SCALE: 1" = 20'
LATEST REVISION:
DATED: SEPT. 27, 2018
SHEET No. S-4
TAX MAP 57-1-21

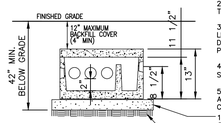
SSTS PLAN



TYPICAL WELL DETAIL

N.T.S.



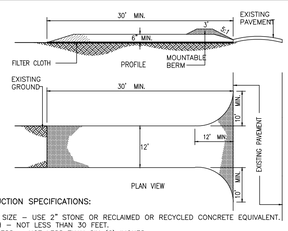


NOTE:
1. 12" MAXIMUM BACKFILL.
2. ANY UNUSED OUTLETS TO REMAIN PLUGGED.
3. INSTALL SPEED LEVELERS TO INSURE EQUAL DISTRIBUTION TO ALL OUTLET PIPES.
4. TOP, BOTTOM AND SIDES ALL 1 1/2" THICK.
5. #2 DISTRIBUTION BOX AS MFR BY FORT MILLER CO, INC.

DISTRIBUTION BOX

N.T.S.

NOTE: A MINIMUM OF TWO (2) FEET OF SOLID PIPE OUT OF DISTRIBUTION BOX PRIOR TO THE START OF THE PERFORATED ABSORPTION LATERALS

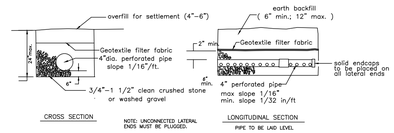


CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE – USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 30 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. "MIRAFI" 700X, OR APPROVED EQUAL.
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 OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. ALL SEDIMENT SPILLED, DROPPED WASHED OR TRACED ONTO PUBLIC RIGHTS– OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – 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.

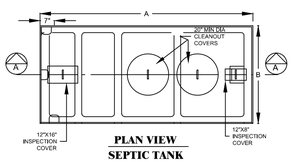
STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

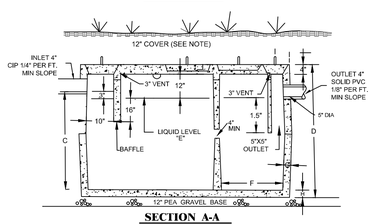


TYPICAL ABSORPTION TRENCH DETAIL

N.T.S. PIPE TO BE: HDPE SDR 38 ASTM 5810



PLAN VIEW
SEPTIC TANK
N.T.S.



SECTION A-A
N.T.S.

TYPICAL SEPTIC TANK

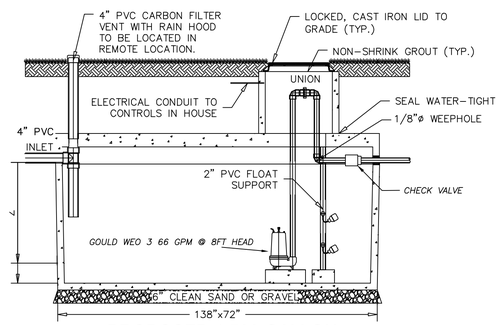
MANUFACTURED BY M & M PRECAST
WITH LENGTH TO WIDTH RATIO 2:1

SEPTIC TANK SPECIFICATIONS & CAPACITIES

	LIQUID CAPACITY	A LENGTH	B WIDTH	C INVERT	D HEIGHT	E LIQUID LEVEL	F COMPARTM. LENGTH	G WALL THICKN.	H BOTTOM THICKN.
SEPTIC TANK	2000 GAL.	12'-4"	6'-5"	4'-7"	6'	4'-6"	3'-7"	3.5"	6"

NOTES:
IF THE DIMENSIONS OF THE SEPTIC TANK CHANGE, THE SEPTIC TANK INSTALLED MUST BE A DUAL COMPARTMENT SEPTIC TANK.

MIN. FILL COVER IS 6" – 12" MAX. FILL COVER IS 24" AND IF FILL COVER IS GREATER THAN 12" MANHOLE RISERS TO GRADE MUST BE INSTALLED



PROPOSED 1,500 GALLON PUMP PIT TANK

PUMP PIT CALCULATIONS 1500 gallon tank

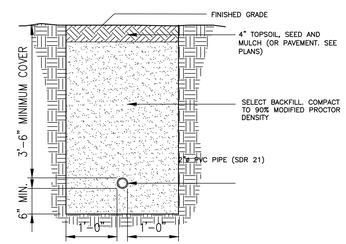
INSIDE WIDTH 42" LENGTH 9'9" FT
INSIDE HEIGHT AT INVERT 5'6"
4.17x9.75x5.42 = 217 CF; 217 X 7.48 = 1620 GAL; 305 GAL/FT. 25.4 GAL/IN
GRADE AT TANK 492
TOP OF TANK 491' 6"
OUTSIDE TANK BOTTOM 484'10"
INSIDE TANK BOTTOM 485'2"

DEPTH INVERT IN: 490'8"
DEPTH TO INVERT IN = 5'6"
PUMP 6" OFF BOTTOM 485'8"
PUMP OFF 485'8"
PUMP ON 486'8" (12" DOSE)
ALARM 486'11"
VOLUME ABOVE ALARM 490' 8"–486'11" = 3'9" = 1140 GALLONS

PUMP NOTES:

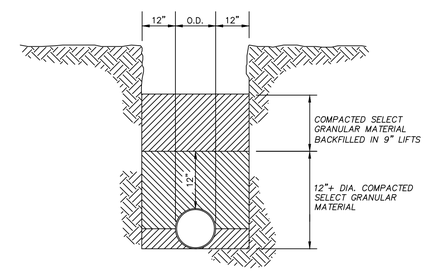
1. All electrical work and material for pump installation shall comply with the National Electrical Code."
2. An electrical Underwriter's Certificate for the pump chamber must be provided to the Department prior to the Department conducting a final inspection on the pump chamber.
3. The pump control panel and alarms shall be located inside the house.
4. The pump and the alarm shall be on separate circuits.
5. An all weather junction box with an outlet and screwed cover at or above grade at the pump chamber shall be provided to allow for a plug in connection for the pump(s).

CAMPBELL LIGHT DUTY MANHOLE
MODEL 1302 FRAME AND COVER

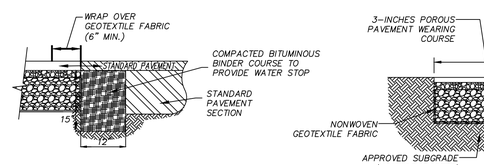


FORCE MAIN TRENCH DETAIL

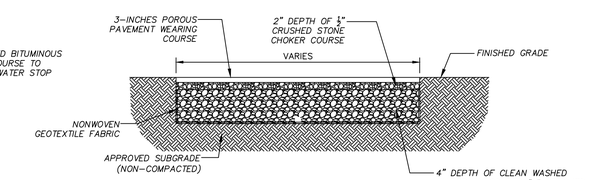
N.T.S.



TRENCH BEDDING



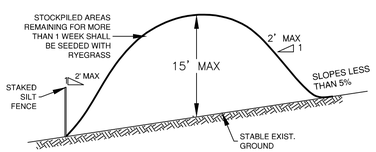
PERMEABLE PAVEMENT/ STANDARD PAVEMENT INTERFACE



NOTES:

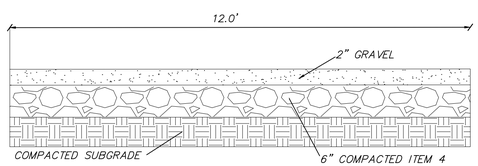
1. STONE FOR INFILTRATION BEDS SHALL BE 3/4 INCH UNIFORMLY GRADED COARSE AGGREGATE WITH A WASH LOSS OF NO MORE THAN 0.5% IN ACCORDANCE WITH PROJECT SPECIFICATIONS, VOID SPACE SHALL BE 40% AS MEASURED BY ASTM–C29.
2. NONWOVEN GEOTEXTILE SHALL CONSIST OF NEEDLED NONWOVEN POLYPROPYLENE FIBERS AND MEET THE FOLLOWING PROPERTIES: 3. GRAD TENSILE STRENGTH (ASTM–D4632) >=120 LBS, MULLEN BURST STRENGTH (ASTM–D3786) >=225 LBS, FLOW RATE (ASTM–D4491) >=95 GALLONS/MINUTE/SQUARE FOOT UV RESISTANCE AFTER 500 HRS (ASTM–D4355) >=70%. HEAT–SET OR HEAT–CALENDARED FABRICS ARE NOT PERMITTED. GEOTEXTILE FABRIC SHALL BE MIRAFI 140 N OR APPROVED EQUAL.
3. POROUS PAVEMENT SHALL NOT BE INSTALLED ON WET SURFACES OR WHEN THE AMBIENT AIR TEMPERATURE IS 50 DEGREES FAHRENHEIT OR LOWER.
4. FILTER FABRIC AND STONE SHOULD BE KEPT CLEAN OF SOIL/SEDIMENT DURING THE INSTALLATION PROCESS. IF INSPECTION INDICATES THAT SOIL SEDIMENT HAS ENTERED ANY OF THE INFILTRATION SEEPAGE BEDS, APPROPRIATE MEASURES (i.e. CLEANING THE SOIL/SEDIMENT FROM THE FABRIC, STONE, ETC. AND OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
5. ALL STONE FOR THE CONSTRUCTION OF THE PERMEABLE PAVEMENT SHOULD BE UNIFORMLY GRADED AND CLEAN WASHED AGGREGRATE.
6. THE BOTTOM OF THE PERMEABLE PAVEMENT SUBBASE BE UNDISTURBED OR UNCOMPACTED SUBGRADE.
7. PERVIOUS PAVEMENT SHOULD BE INSTALLED TOWARD THE END OF THE CONSTRUCTION PERIOD IF POSSIBLE. THIS WILL AVOID COMPACTION OF THE SUBGRADE AND SUBJECTION TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC.
8. GEOTEXTILE AND BED AGGREGATE FOR PERVIOUS PAVEMENT SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION AND INSTALLATION OF STRUCTURES. ADJACENT STRIPS OF GEOTEXTILE SHOULD OVERLAP A MINIMUM OF 16 INCHES, AND SHOULD BE SECURED AT LEAST 4 FEET OUTSIDE OF BED TO PREVENT ANY RUNOFF OR SEDIMENT FROM ENTERING THE STORAGE BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS OR DISTURBED AREAS CONTIGIOUS TO THE BED ARE STABILIZED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE ALONG BED EDGES CAN BE CUT BACK TO THE BED EDGE.
9. THE PERVIOUS PAVEMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS DATED SEPTEMBER 1, 2016.
10. THE FULL PERMEABILITY OF THE PAVEMENT SURFACE SHOULD BE TESTED BY APPLICATION OF CLEAN WATER AT THE RATE OF AT LEAST 5 GPM OVER THE SURFACE, USING A HOSE OR OTHER DISTRIBUTION DEVICE. ALL APPLIED WATER SHOULD INFILTRATE DIRECTLY WITHOUT FORMATION OR SURFACE RUNOFF.
11. PLANTED AREAS ADJACENT TO THE PERVIOUS PAVEMENT SHOULD BE MAINTAINED AND INSPECTED ON A SEMIANNUAL BASIS.
12. PERVIOUS PAVEMENT SHALL BE VACCUMED 2 TO 3 TIMES PER YEAR. PAVEMENT WASHING SYSTEMS OR COMPRESSED AIR UNITS ARE NOT RECOMMENDED. IMMEDIATELY CLEAN ANY SOIL DEPOSITED ON PAVEMENT.
13. FOR WINTER MAINTENANCE OPERATIONS, ABRASIVES SUCH AS SAND OR CINDERS SHOULD NOT BE APPLIED ON OR ADJACENT TO THE PERVIOUS PAVEMENT.
14. SNOW PLOWING IS ACCEPTABLE, PROVIDED IT IS DONE BY SETTING THE BLADE SLIGHTLY HIGHER THAN USUAL (APPROXIMATELY 1 INCH).
15. SALT IS ACCEPTABLE FOR USE AS A DEICER ON THE PERVIOUS PAVEMENT, THOUGH NONTOXIC, ORGANIC DEICERS APPLIED EITHER AS BLENDED MAGNESIUM CHLORIDE BASED LIQUID PRODUCTS, OR AS PRETREATED SALT ARE PREFERABLE.
16. IF PORTIONS OF THE PERVIOUS PAVEMENT EXPERIENCE SETTLING, FOR AREAS LESS THAN 50 SQUARE FEET, REPAIR CAN BE MADE WITH STANDARD PAVEMENT OR WITH THE PERVIOUS PAVEMENT MIX. IF THE AREA IS GREATER THAN 50 SQUARE FEET, THE CONTRACTOR SHALL RECEIVE APPROVAL OF THE PATCH TYPE FROM HUDSON ENGINEERING & CONSULTING, P.C.

PERMEABLE PAVEMENT



TYPICAL SOIL STOCKPILE DETAIL

N. T. S.



GRAVEL DRIVEWAY SECTION DETAIL

(NTS)

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE STALLED IN ACCORDANCE WITH THE NEW YORK GUIDELINES FOR EROSION AND SEDIMENT CONTROL (2005), AS PUBLISHED BY THE NEW YORK STATE SOIL AND WATER CONSERVATION SOCIETY AND RECOMMENDED BY THE U.S. DEPARTMENT OF AGRICULTURE – SOIL CONSERVATION SERVICE. (REFERRED TO IN REMAINING TEXT AS "THE NEW YORK GUIDELINES".

2. ANY DISTURBED AREA THAT WILL BE LEFT UNDISTURBED FOR MORE THAN 21 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL BE SEED AND MULCHED WITHIN 14 DAYS OF THE LAST DISTURBANCE WITH TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL. THE SEEDING SHALL BE DONE IN ACCORDANCE WITH THE NEW YORK GUIDELINES, AS FOLLOWS:

A) SEED: ANNUAL RYE GRASS APPLIED AT A RATE OF 30 LBS/ACRE OTHER SELECT MIXTURE AS DESCRIBED IN THE NEW YORK GUIDELINES.
IF: SPRING, SUMMER OR EARLY FALL SEED WITH RYE GRASS (ANNUAL OR PERENNIAL) AT 30 LBS PER ACRE
IF: LATE FALL OR EARLY WINTER SEED WITH CERTIFIED "ARUOSTOOK" WINTER RYE, AT 100 LBS (CEREAL RYE) PER ACRE.

B) MULCH: OLD HAY OR SMALL GRAIN STRAW APPLIED AT A RATE OF NINETY (90) POUNDS PER ONE THOUSAND SQUARE FT. OR TWO TONS PER ACRE. TO BE APPLIED AND ANCHORED ACCORDING TO THE NEW YORK GUIDELINES. WOOD FIBER HYDROMULEN OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

C) IN AREAS OF SLOPES STEEPER THAN ONE ON TWO, JUTE MATTING SHALL BE USED TO STABILIZED SEEDED AND / OR PLANTED AREAS. JUTE MATTING SHALL BE INSTALLED AND ANCHORED IN ACCORDANCE WITH THE NEW YORK GUIDELINES.

3. ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL, WITHIN FIVE (5) DAYS AFTER FINAL GRADING, RECEIVE PERMANENT VEGETATIVE COVER IN COMBINATION WITH A SUITABLE MULCH AS FOLLOWS:

A) STEEP SLOPES OR EROSION SLOPES GREATER THAN 2:1 (H:V) REFER TO PERMANENT CRITICAL AREA PLANTING NOTES.
B) RECREATIONAL AREAS AND LAWN REFER TO RECREATIONAL AREA IMPROVEMENT NOTES.

4. SLOPES STEEPER THAN ONE ON THREE SHALL BE STABILIZED IMMEDIATELY AFTER GRADING

5. PAVED ROADWAYS SHALL BE KEPT CLEAR AT ALL TIMES.

6. THE SITE SHALL AT ALL TIME'S BE GRADE AND MAINTAIN SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AR SEDIMENT CONTROL FACILITIES. EXCEPT FOR MINOR PERIMETER EMBANKMENT AREAS, ALL GRADE AREA SHALL BE DIRECTED THROUGH ONE OF THE SEDIMENTS BARRIERS. DIVERSION SWALES MAY BE USED TO DIRECT DRAINAGE RUNOFF UNTIL PERMANENT STORM DRAINAGE SYSTEM IS IN PLACED.

7. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS.

8. STOCKPILES SHALL NOT BE LOCATED WITHIN FIFTY FEET (50') OF ROAD WAYS OR DRAINAGE FACILITIES. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A SILT FENCE, HAY BALES BARRIERS OR A COMBINATION OF BOTH.

9. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR ON A DAILY BASIS TO ENSURE THAT TEMPORARY AND PERMANENT DITCHES, PIPES AND STRUCTURES ARE CLEAR OF DEBRIS, THAT EMBANKMENTS AND BERMS ARE NOT BREACHED, AND THAT ALL BARRIERS ARE INTACT,

10. MANDATORY STORMWATER INSPECTIONS SHALL BE PERFORMED WEEKLY AND WITHIN 24 HOURS OF ANY PRECIPITATION EVENT PRODUCING MORE THAN 1/2" OF PRECIPITATION OVER AND 24 HOUR PERIOD. INSPECTIONS ARE PERFORMED BY A LICENSED CERTIFIED PROFESSIONAL.

11. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE SITE WORK BY THE OWNER. UPON CERTIFICATION OF FINAL ACCEPTANCE, THE OWNER WILL ASSUME RESPONSIBILITY FOR THE CONTINUED MAINTENANCE OR PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.!

12. ALL DRAINAGE OUTLETS AND INLETS SHALL BE LINED WITH RIP–RAP AS SPECIFIED ON THE PLANS AND/OR PER ENGINEER.

13. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES.

Construction Notes for Subsurface Sewage Treatment Systems & Well Water Supples Serving Single–Family Residences

The following notes shall be provided on all plans for individual SSTS and well water supplies
Basic Required Notes
1. All trees within 10 feet of the proposed subsurface sewage treatment system (SSTS) shall be removed
2. SSTS to be inspected by the Licensed Design Professional and the Putnam County Health Department after construction and prior to backfill
3. The SSTS area shall be staked and roped off so that no trucks, machinery, building materials, nor excavated earth shall be allowed in the SSTS area.
4. All erosion control measures shall be installed prior to the start of any construction and must be maintained until construction is complete and stabilization has occurred.
5. Construction of SSTS to be in accordance with these plans, any revision thereto, and the rules and regulations of the permit issuing governmental agency
6. The well is to be a drilled well, constructed in accordance with New York State Health Department 10 NYCRR appendix 5B, standards for water wells, pump tested for a minimum of 6 hours and have a minimum safe yield of 5 gpm. Yields less than 5 gpm will be immediately reported to the Putnam County Department of Health.
7. The SSTS design shown hereon does not provide for installation of a garbage grinder. Such installation requires additional design and the approval of the Putnam County Department of Health
8. Putnam County Health Department approval is based on the location of the SSTS, well, building, setbacks, and driveways as shown on the approved drawing. Modifications are to have prior Putnam County Health Department approval. Unauthorized modifications made to this drawing after the date of Putnam County Health Department approval voids said approval.
9. All stonewalls in and within 10 feet of the SSTS area shall be removed to their entire depth and the resulting void replaced with similar on site soil.
10. Cut or fill is not permitted in the SSTS area, except if so specified on this plan.
11. After backfilling the system, the SSTS area shall be covered with a minimum of 6 inches of top soil, seeded and mulched.
12. Occupancy of this structure will not be permitted until the Construction Compliance Application has been received and approved by the Putnam County Health Department and forwarded to the Building Inspector of the respective municipality as part of the Certificate of Occupancy application.
13. This plan is approved for sewage treatment and/or water supply only, and all other required permits and/or approvals are the responsibility of the permitee.
14. The Putnam County Health Department approval expires two (2) years from the date on the approval stamp and is required to be renewed on or before the expiration date. The approval is revocable for cause or may be amended or modified when considered necessary by the Department
15. A copy of the house plans submitted to the building inspector of the local municipality, when filing for a building permit, must be submitted to the Putnam County Health Department to verify bedroom count.
16. The house, well and SSTS shall be survey located and staked by a NYS Licensed Land Surveyor prior to construction.
17. For all SSTS's which are subject to Joint Review and approval with NYCDEP the Design Professional is to notify PCHD and NYCDEP at least 24 hours prior to the commencement of the SSTS construction.
18. Datum based on NAVD 88.
19. Property outside FEMA 100 year wetland.

SURVEY OF LOT 3 AS SHOWN ON: FINAL LANDS OF MALTZ - PLAT II, COMEMERCIAL SUBDIVISION PLAT" FILED IN PUTNAM COUNTY CLERK'S OFFICE ON NOVEMBER 18, 1928 AS MAP No. 1731-B

WETLANDS FLAGGED BY TED KOZLOWSKI, 8-25-18 AND LOCATED BY RICHARD J. DOMATO L.S. DATED 9-15-18

SURVEY AND TOPOGRAPHY TAKEN FROM SURVEY PREPARED BY RICHARD J. DOMATO DATED AUGUST 30, 2018. DATUM IS NAVD88

ALTERATION OF THIS DRAWING EXCEPT BY A LICENSED P.E. OR ARCHITECT OR LICENSED LAND SURVEYOR IS ILLEGAL. ANY ALTERATION BY A P.E. OR ARCHITECT OR SURVEYOR MUST BE INDICATED AND BEAR HIS SEAL SIGNATURE AND DATE OF ALTERATION.

No.	DATE	
4	5-8-19	TOWN COMMENTS
3	3-27-19	TOWN COMMENTS
2	2-18-19	HD / DEP COMMENTS
1	11-18-18	HD / DEP COMMENTS

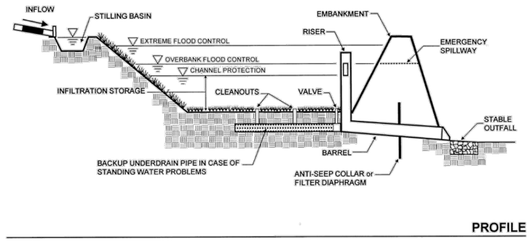
JOHN KARELL, JR. P.E.
121 CUSHMAN ROAD
PATTERSON, NEW YORK 12563
845-878-7894 phone
845-878-4939 fax
jack4911@yahoo.com

STATE OF NEW YORK · JOHN KARELL, JR. · No. 53277 · LICENSED PROFESSIONAL ENGINEER

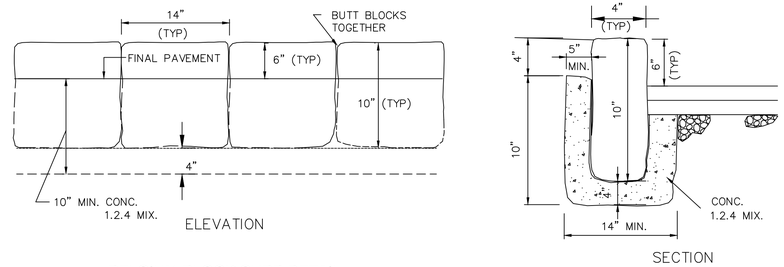
OWNER:
JOHN & JOSEPHINE MAFFEI
57 MILLTOWN ROAD
SOUTHEAST (T)

SCALE: AS SHOWN
LATEST REVISION:
DATED: SEPT. 27, 2018
SHEET No. D-1
TAX MAP 57-1-21

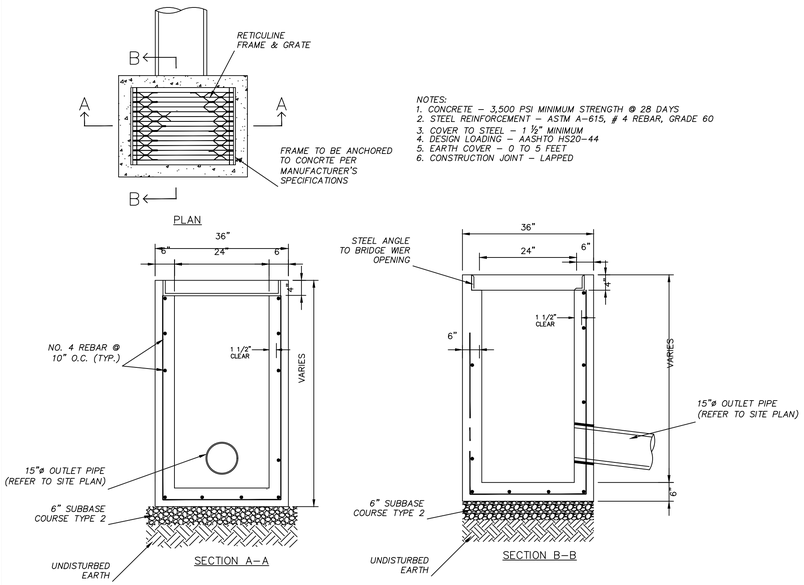
DETAILS



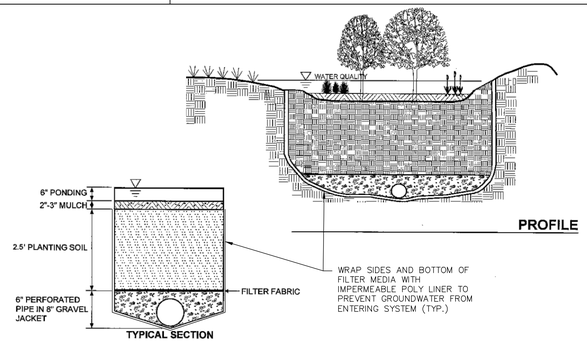
NYSDEC INFILTRATION BASIN (I-2)
TYPICAL CROSS SECTION



BELGIUM BLOCK CURB DETAIL



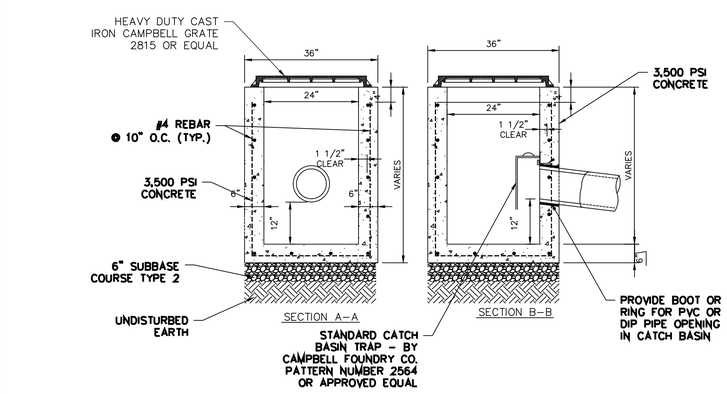
OUTLET STRUCTURE



NYSDEC BIORETENTION AREA (F-5)
TYPICAL CROSS SECTION

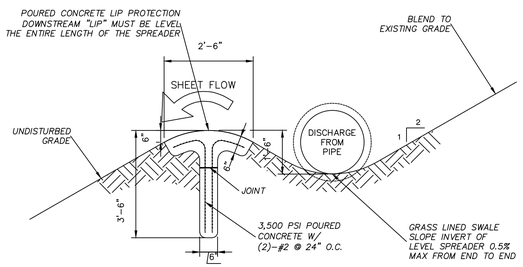
BOTANICAL NAME	COMMON NAME	INUNDATION TOLERANCE
TREES & SHRUBS		
LINDERA BENZOIN	COMMON SPICE BUSH	YES
SAMBUCUS CANADENSIS	ELDERBERRY	YES
PYRUS ARBUTIFOLIA	RED CHOKE BERRY	YES
AMELANCHIER CANADENSIS	SHADOWBUSH, SERVICEBERRY	YES
CORNUS AMOMUIM	SILKY DOGWOOD	YES
ALNUS RUGOSA	SPECKLED ALDER	YES
ROSA PALUSTRIC	SWAMP ROSE	IRREGULAR, SEASONAL, OR REGULARLY SATURATED
ILEX VERTICILLATA	WINTERBERRY	YES
HERBACEOUS PLANTS		
PELTANDRA VIRGINICA	ARROW ARUM	UP TO 1'
SAFFITARIA LATIFOJA	ARROWHEAD, DUCK POTATO	UP TO 1'
ANDROPOGON GERARDI	BIG BLUESTEM	IRREGULAR OR SEASONAL INNUNDATION
ANDROPOGON GLOMERATUS	BUSHY BEARDGRASS	UP TO 1'
LOBELIA CARDINALIS	CARDINAL FLOWER	SOME TOLERATES SATURATION UP TO 100% OF SEASON
TYPHA SP.	CATTAIL	UP TO 1'
GLYCERIA STRIATA	FOWL MANNAGRASS	IRREGULAR OR SEASONAL INUDATION
SPARGANIUM EURYCARPUM	GIANT BURREED	REGULAR TO PERMANENTLY INUDATED UP TO 1'
HBISCUS MOSCHEUTOS	MARSH HIBISCUS	UP TO 3'
PONTEDERIA CORDATA	PICKERELWEED	UP TO 1'
AGROSTIS ALBA	REDTOP	UP TO 25% OF THE SEASON
LEERSIA ORYZOIDES	RICE CUTGRASS	UP TO 3'
CAREX SPP.	SEDGES	UP TO 3'
DESCHAMPSIA CAESPITOSA	TUFTED HAIRGRASS	REGULAR TO IRREGULAR INUNDATION
SCIRPUS VALIDUS	SOFT-STEM BULRUSH	UP TO 1'
POLYGONUM SPP.	SMARTWEED	UP TO 1'
JUNCUS EFFUSUS	SOFT RUSH	UP TO 3"
PANICUM VIRGATUM	SWITCH GRASS	UP TO 3"
ACORUS CALAMUS	SWEET FLAG	UP TO 3'
SCIRPUS CYPERINUS	WOOL GRASS	IRREGULARLY TO SEASONALLY INUNDATED
-	ERNST CONSERVATION SEED ERNST 128	SEASONALLY FLOODED

BIORETENTION AREA
PLANTING LIST

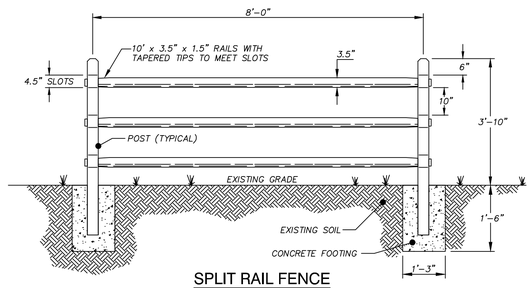


PRECAST DRAIN INLET

NOTES:
1. CONCRETE – 3,500 PSI MINIMUM STRENGTH @ 28 DAYS
2. STEEL REINFORCEMENT – ASTM A–615, # 4 REBAR, GRADE 60
3. COVER TO STEEL – 1 ½" MINIMUM
4. DESIGN LOADING – AASHTO HS20–44
5. EARTH COVER – 0 TO 5 FEET
6. CONSTRUCTION JOINT – LAPPED



CONCRETE LEVEL SPREADER



SPLIT RAIL FENCE

NOTES:
1) ALL WOOD FOR SPLIT RAIL FENCE TO BE PRESSURE TREATED.
2) END POST SHALL BE TERMINAL POST.

SURVEY OF LOT 3 AS SHOWN ON: FINAL LANDS OF MALTZ - PLAT II, COMEMERCIAL SUBDIVISION PLAT" FILED IN PUTNAM COUNTY CLERK'S OFFICE ON NOVEMBER 18, 1928 AS MAP No. 1731-B

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No.	DATE	
2	6-21-19	TOWN COMMENTS
1	5-8-19	TOWN COMMENTS

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STATE OF NEW YORK · JOHN KARELL, JR. · No. 53277 · LICENSED PROFESSIONAL ENGINEER

OWNER:
JOHN & JOSEPHINE MAFFEI
57 MILLTOWN ROAD
SOUTHEAST (T)

DETAILS

SCALE: AS SHOWN

LATEST REVISION:

DATED: MARCH. 27, 2019

SHEET No. D-2

TAX MAP 57-1-21