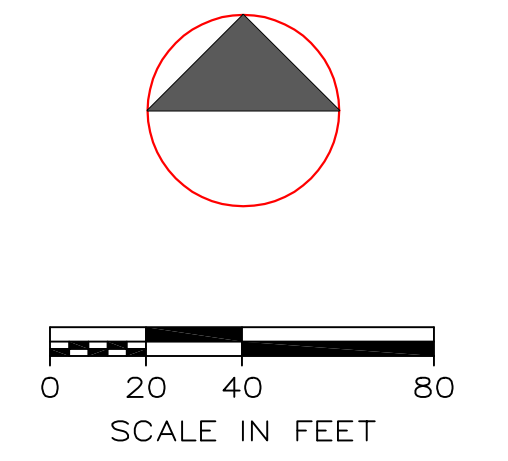


VICINITY MAP



- LEGEND**
- |  |  |                |
|--|--|----------------|
|  |  | CATCH BASIN    |
|  |  | DRAIN MANHOLE  |
|  |  | HEADWALL       |
|  |  | SEWER MANHOLE  |
|  |  | MONUMENT       |
|  |  | O.W.T.A.       |
|  |  | CONTOUR LINE   |
|  |  | SPOT ELEVATION |
|  |  | DRILLED WELL   |
|  |  | BOLLARD LIGHT  |
|  |  | LIGHT POLE     |

**Parking Schedule**

EMPLOYEE PARKING	52
VISITOR PARKING	13
<b>TOTAL PARKING</b>	<b>65</b>

- TREE LEGEND**
- EX. TREE - TO BE REMOVED
  - EX. TREE - TO BE SAVED
  - EX. TREE - TO BE PROTECTED

AS SPECIFIED IN CONSULTING ARBORIST'S REPORT DATED APRIL 30, 2018.  
 NOTE: ALL OTHER EXISTING TREES NOT INCLUDED IN THE ABOVE CLASSIFICATION SHALL BE LEFT IN THEIR PRESENT STATE.

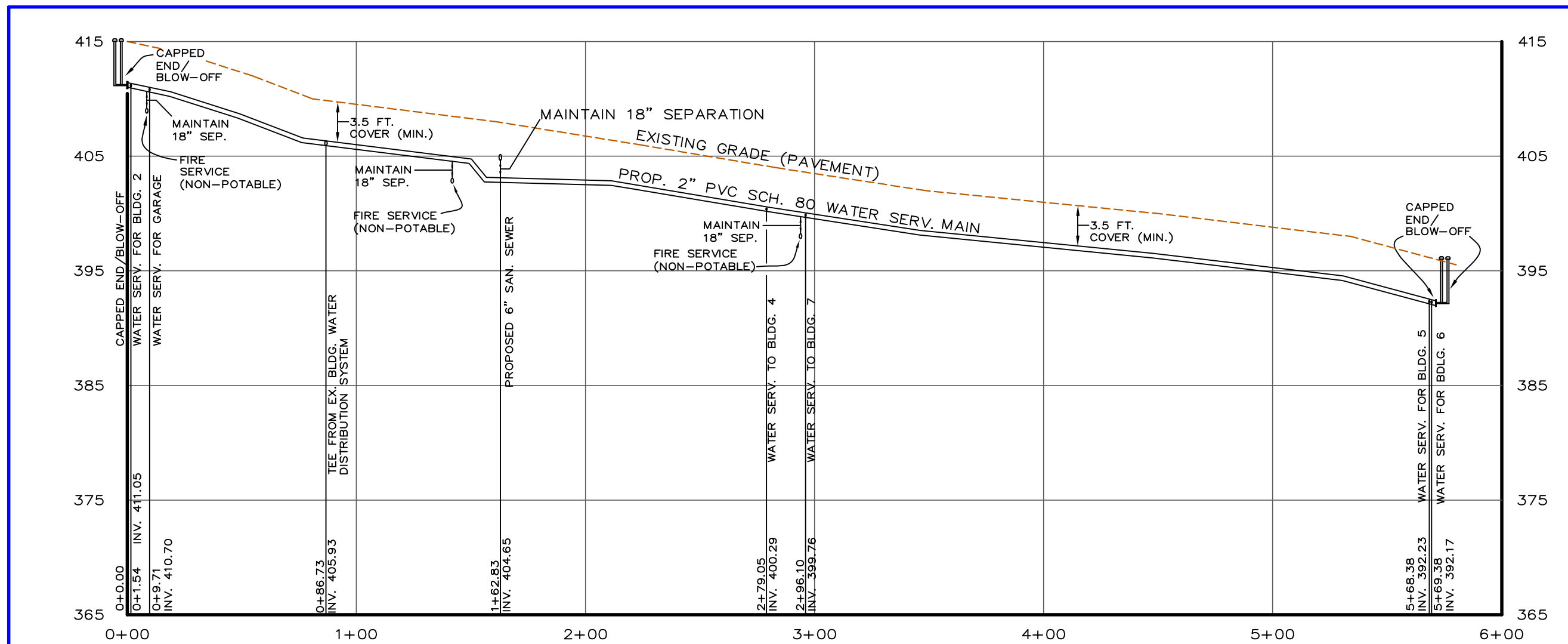
RALPH G. MASTROMONACO, P.E., P.C.  
 Consulting Engineers  
 13 Dove Court, Croton-on-Hudson, New York 10520  
 (914) 271-4762 (914) 271-2820 Fax

**SITE PLAN/  
 GRADING PLAN/TREE PLAN  
 1.3% MAX. GRADE**  
 PREPARED FOR  
**HUDSON RIDGE  
 WELLNESS CENTER**  
 LOCATED AT  
**2016 QUAKER RIDGE RD  
 TOWN OF CORTLANDT  
 WESTCHESTER CO. NY  
 JANUARY 8, 2018**  
 SHEET 1 OF 7 SHEETS

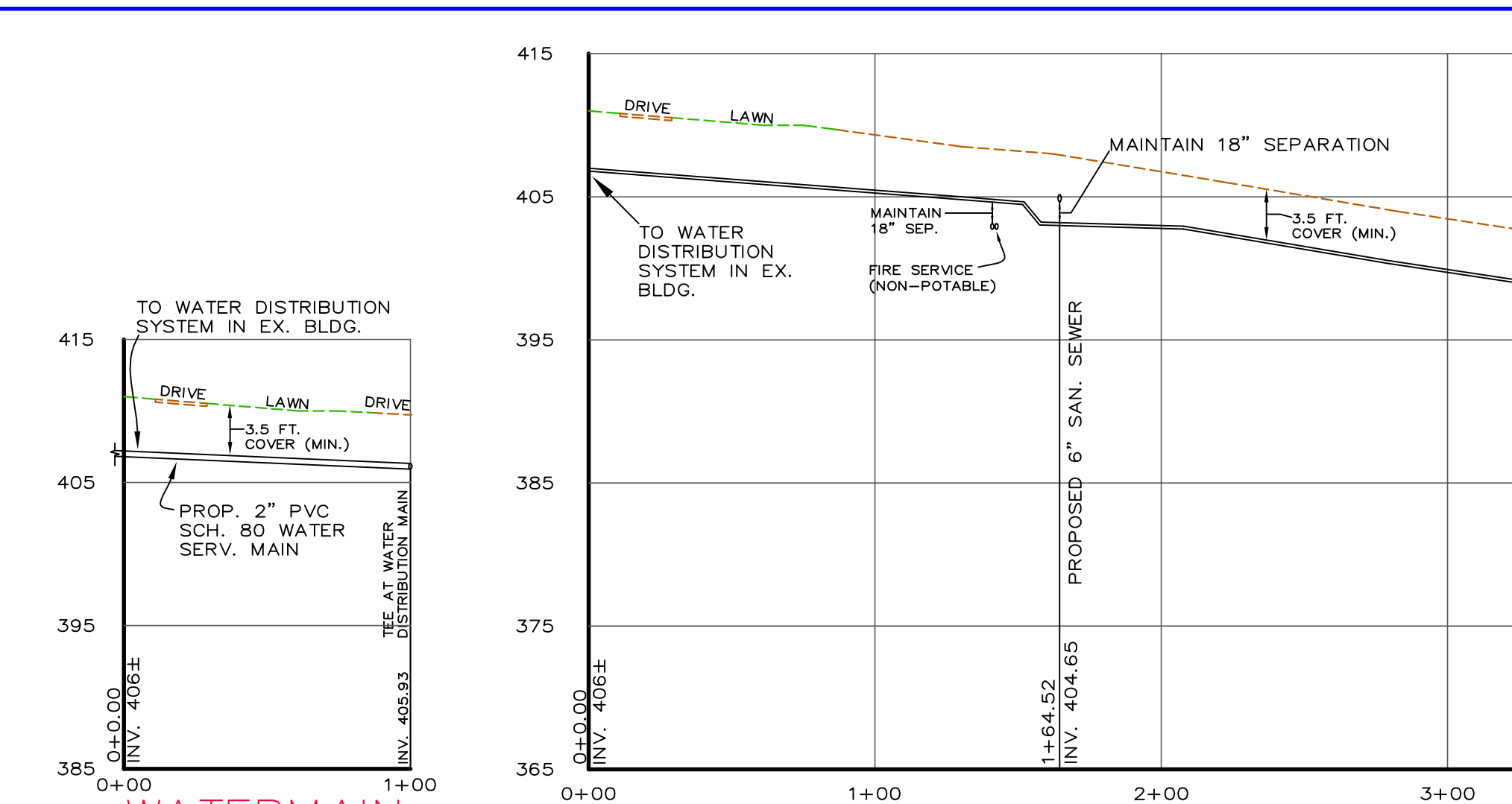
TOPOGRAPHICAL INFORMATION UPDATED BY TC MERRITTS LAND SURVEYORS, OCTOBER 18, 2018.  
 Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.

REVISED: NOVEMBER 5, 2018  
 REVISED: AUGUST 8, 2018  
 REVISED: JUNE 21, 2018  
 REVISED: MAY 16, 2018

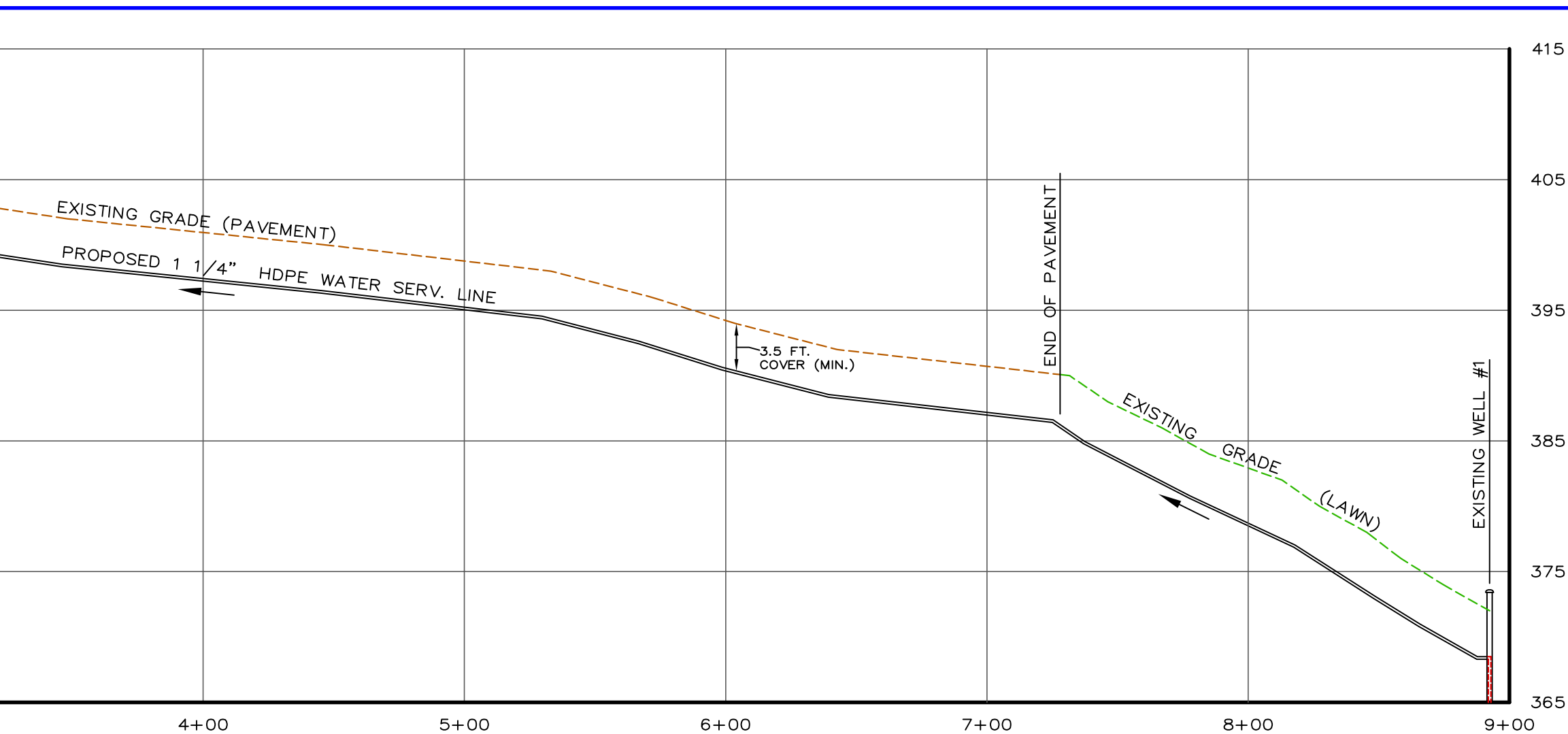




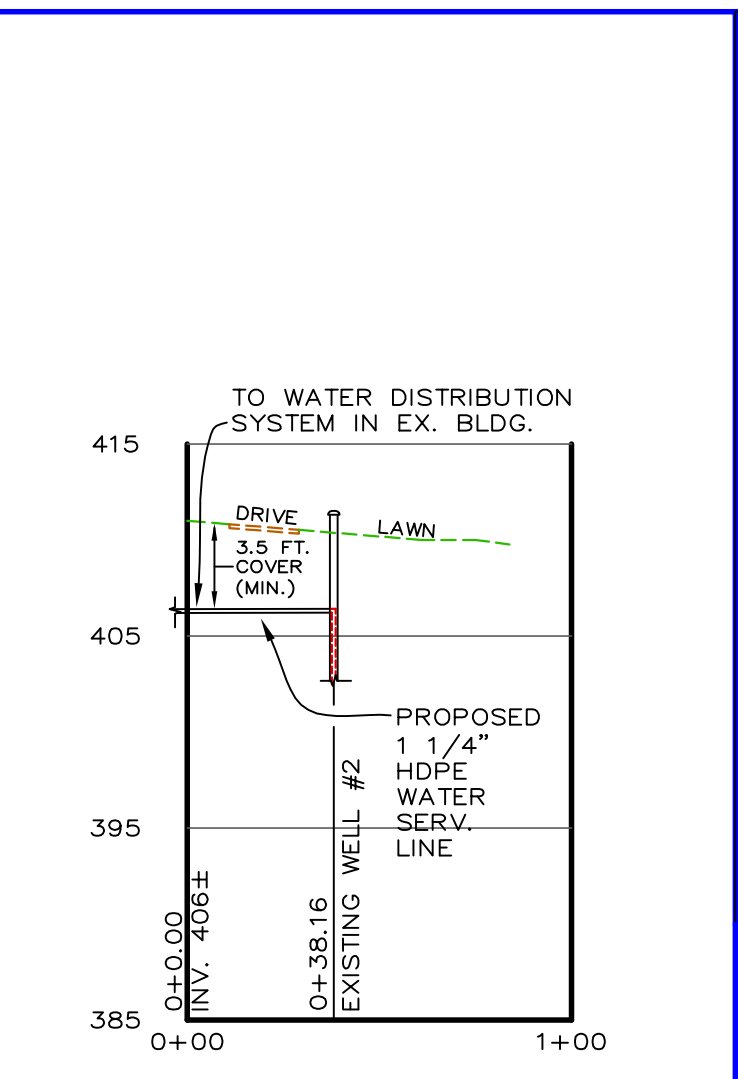
**WATERMAIN PROFILE**  
FROM END TO END IN EX. ROAD  
SCALE: HOR. 1" = 50'  
VER. 1" = 10'



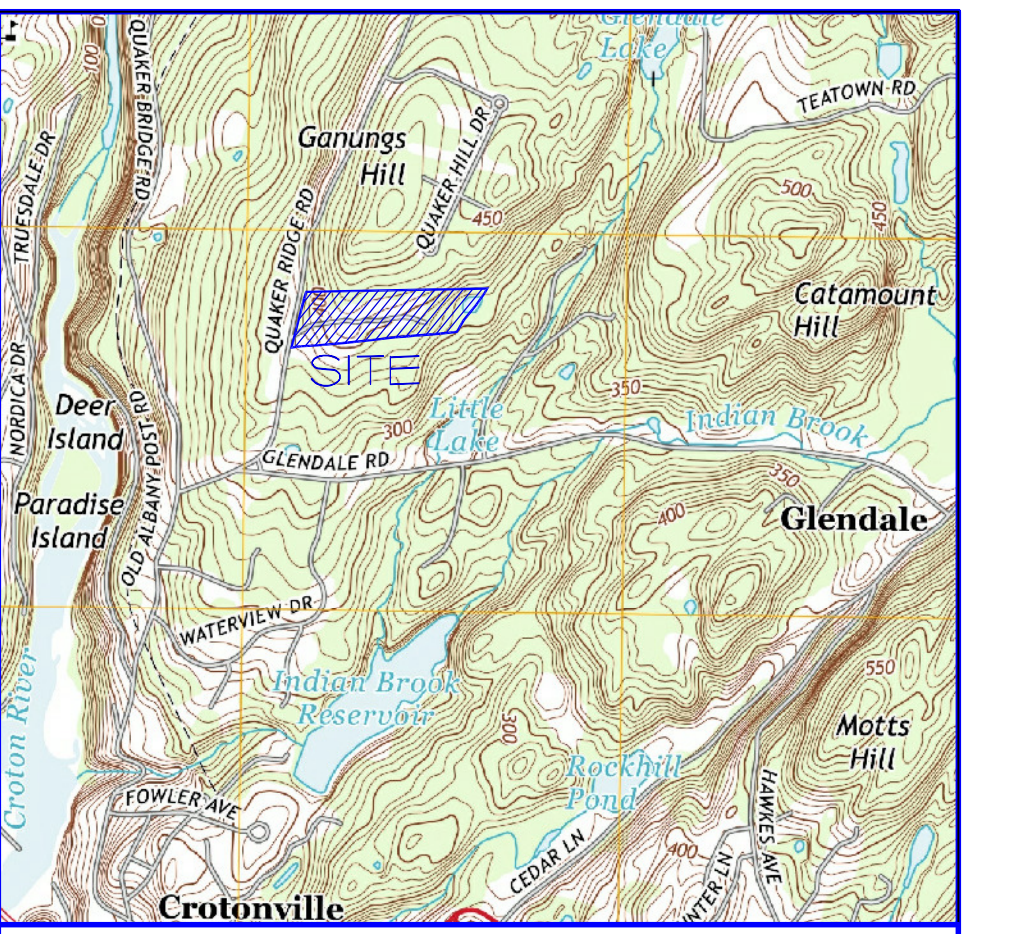
**WATERMAIN PROFILE**  
EX. BLDG TO WATER SERVICE MAIN  
SCALE: HOR. 1" = 50'  
VER. 1" = 10'



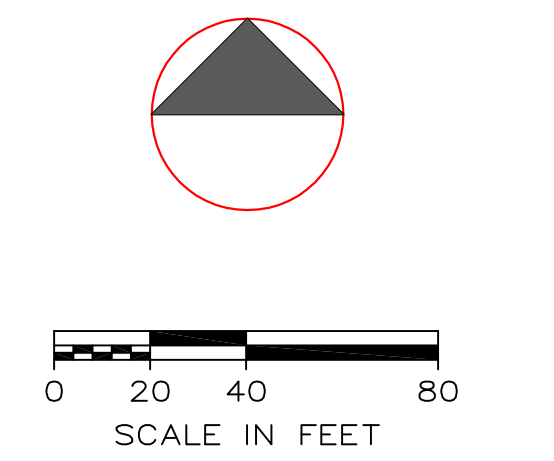
**WELL SERVICE LINE PROFILE**  
FROM EX. BLDG. TO WELL #1  
SCALE: HOR. 1" = 50'  
VER. 1" = 10'



**WELL SERVICE LINE PROFILE**  
FROM EX. BLDG. TO WELL #2  
SCALE: HOR. 1" = 50'  
VER. 1" = 10'

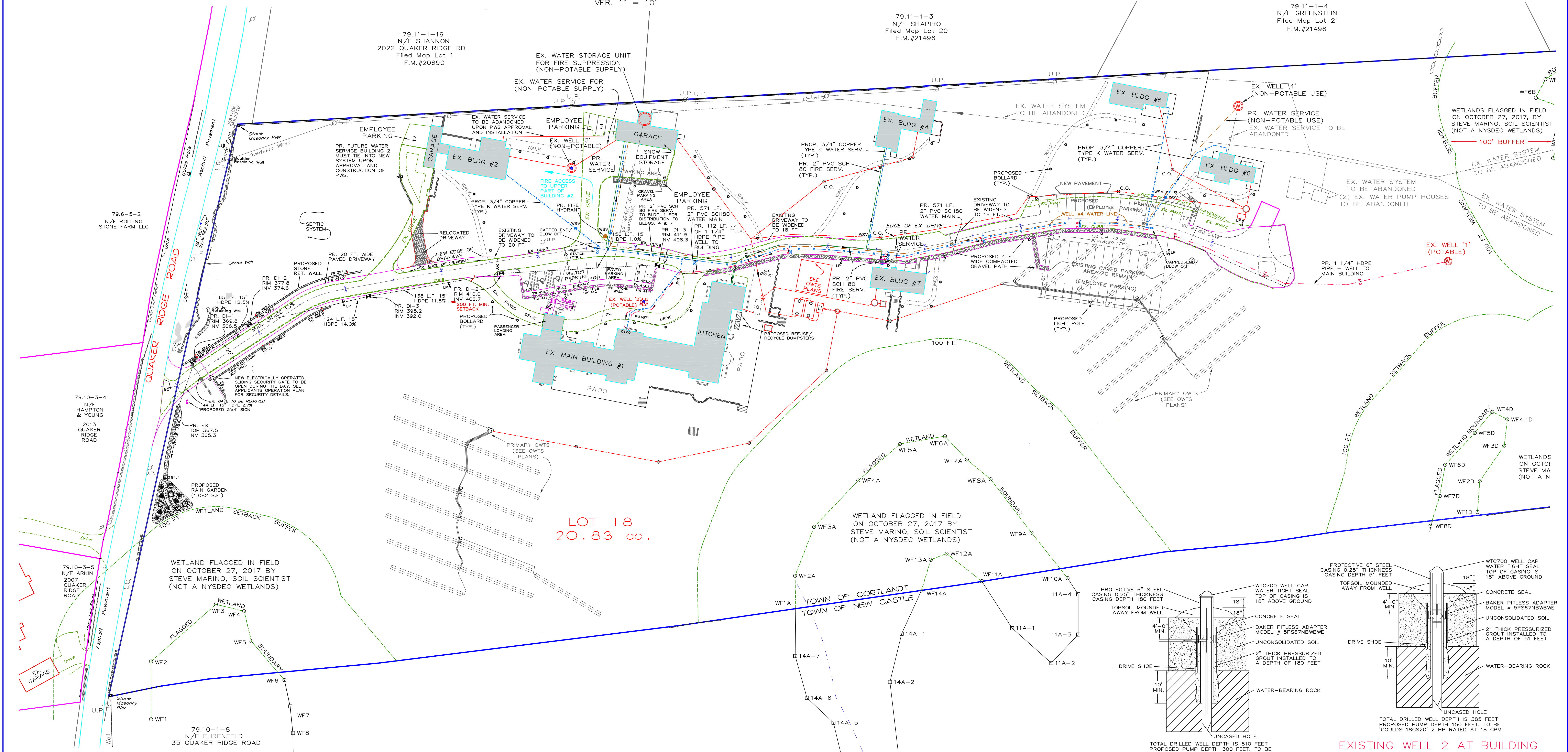


VICINITY MAP

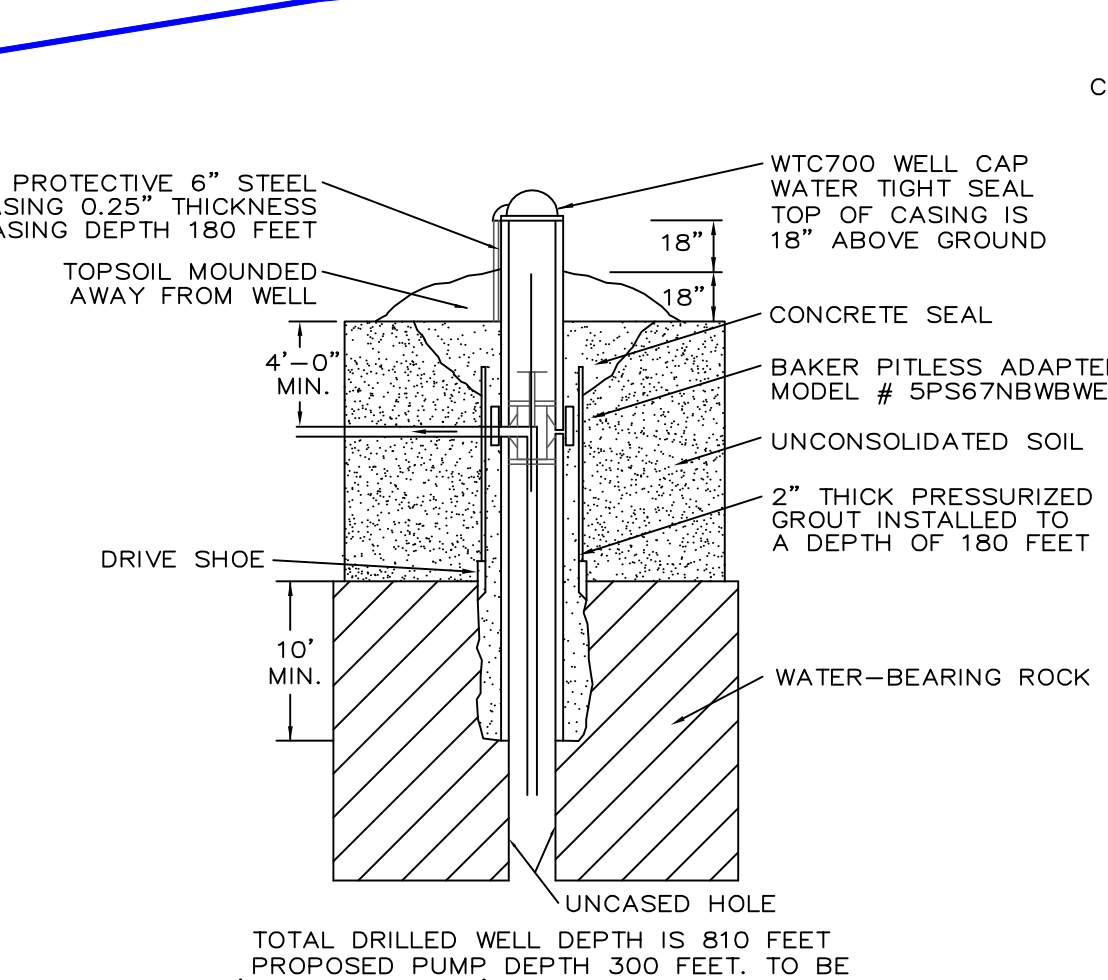


**LEGEND**

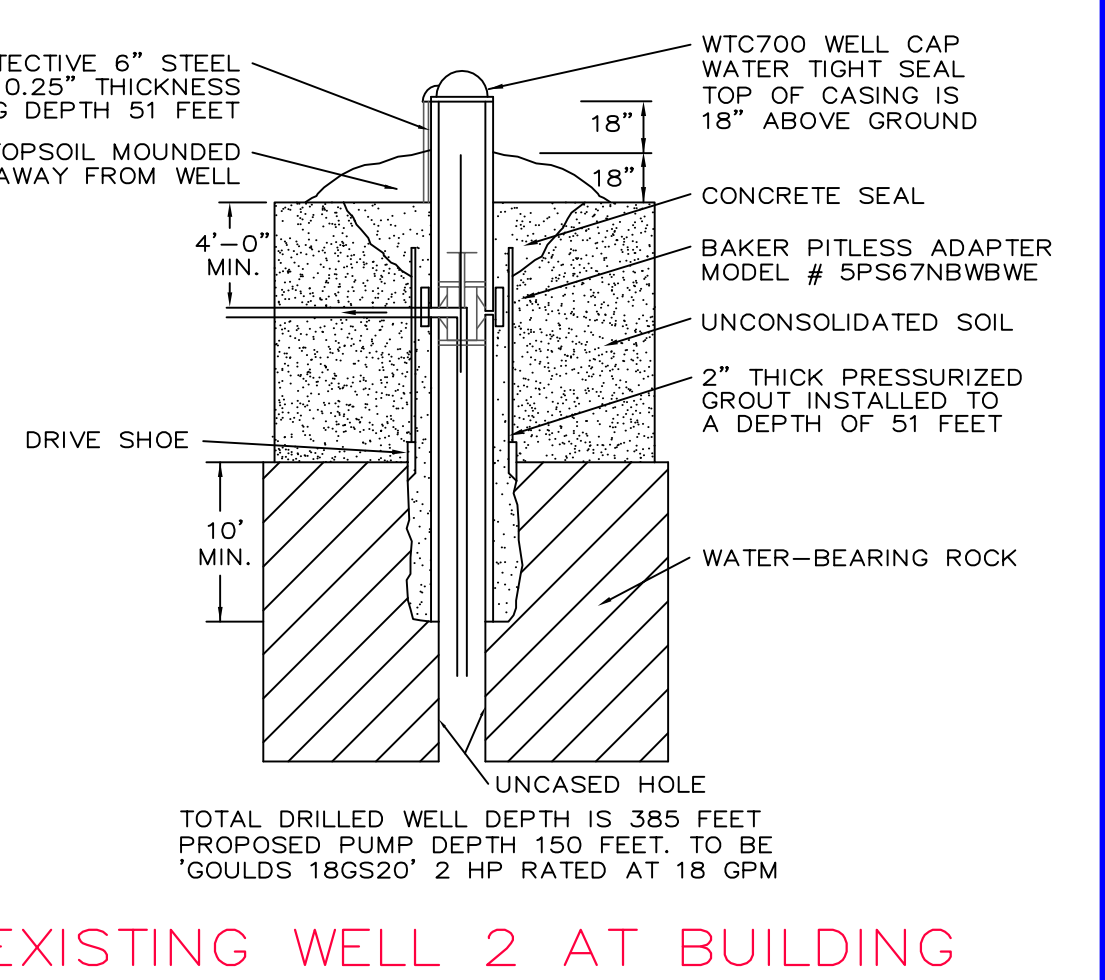
EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	CATCH BASIN
[Symbol]	[Symbol]	DRAIN MANHOLE
[Symbol]	[Symbol]	HEADWALL
[Symbol]	[Symbol]	SEWER MANHOLE
[Symbol]	[Symbol]	MONUMENT
[Symbol]	[Symbol]	O.W.T.A.
[Symbol]	[Symbol]	CONTOUR LINE
[Symbol]	[Symbol]	SPOT ELEVATION
[Symbol]	[Symbol]	DRIED WELL
[Symbol]	[Symbol]	BOLLARD LIGHT
[Symbol]	[Symbol]	LIGHT POLE



**LOT 18**  
20.83 ac.



**EXISTING WELL 1 AT POND**  
N.T.S.



**EXISTING WELL 2 AT BUILDING**  
N.T.S.

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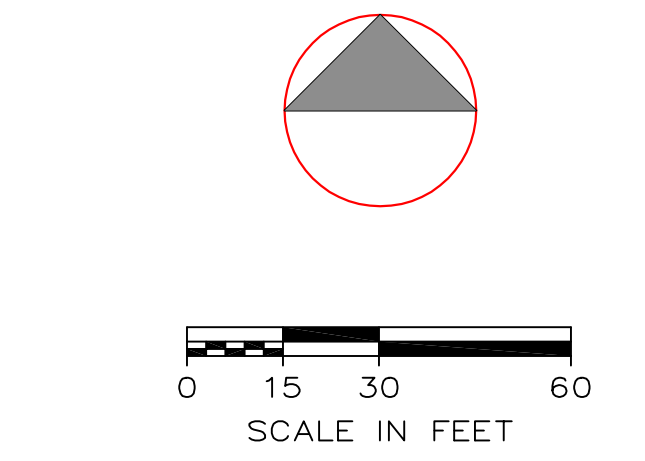
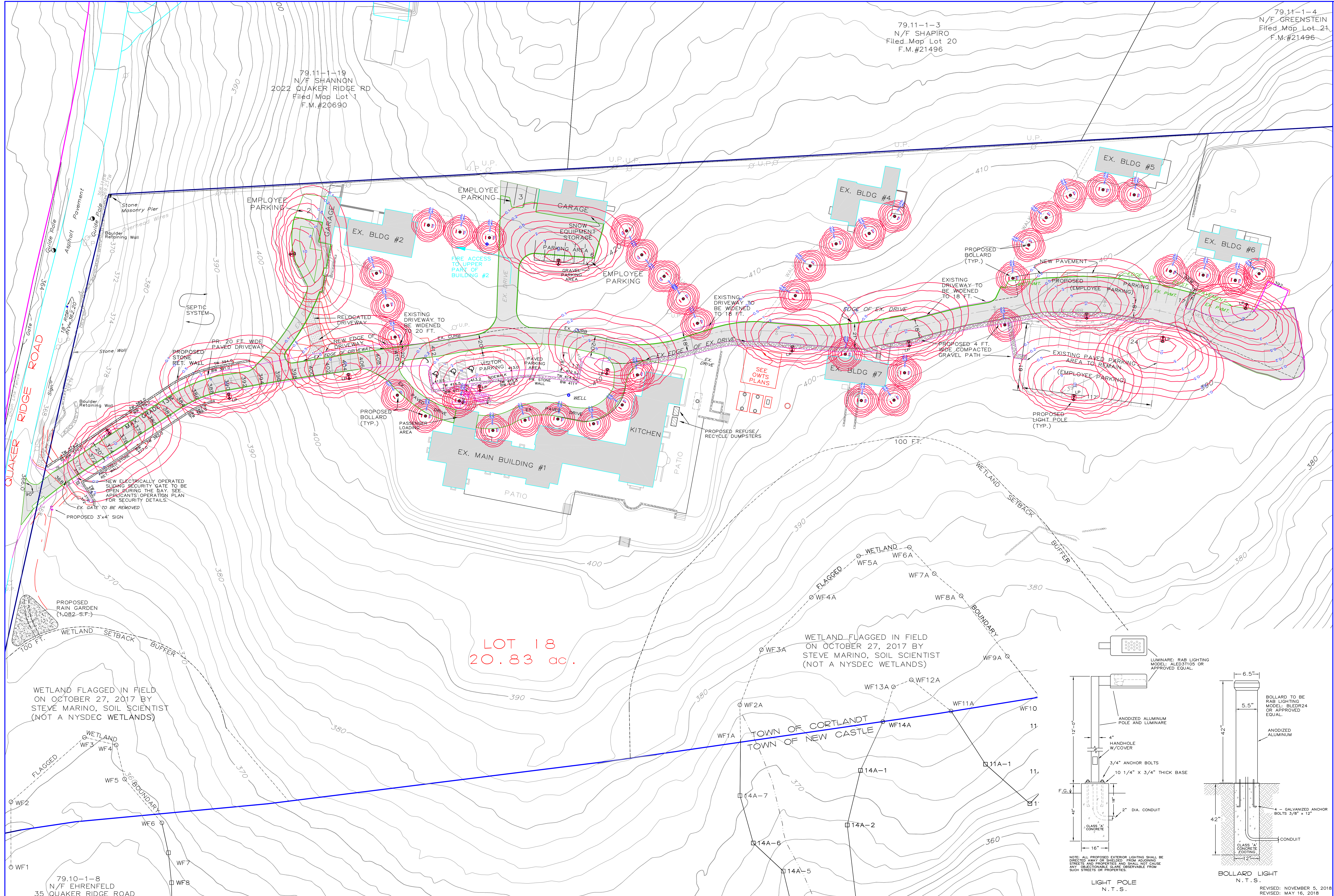
**SITE PLAN/  
UTILITY PLAN**  
PREPARED FOR  
**HUDSON RIDGE  
WELLNESS CENTER**  
LOCATED AT  
**2016 QUAKER RIDGE RD**  
TOWN OF CORTLANDT  
WESTCHESTER CO., NY  
JANUARY 8, 2018  
SHEET 2 OF 7 SHEETS

REVISIONS:  
NOVEMBER 30, 2018  
NOVEMBER 5, 2018  
JUNE 8, 2018  
MAY 16, 2018



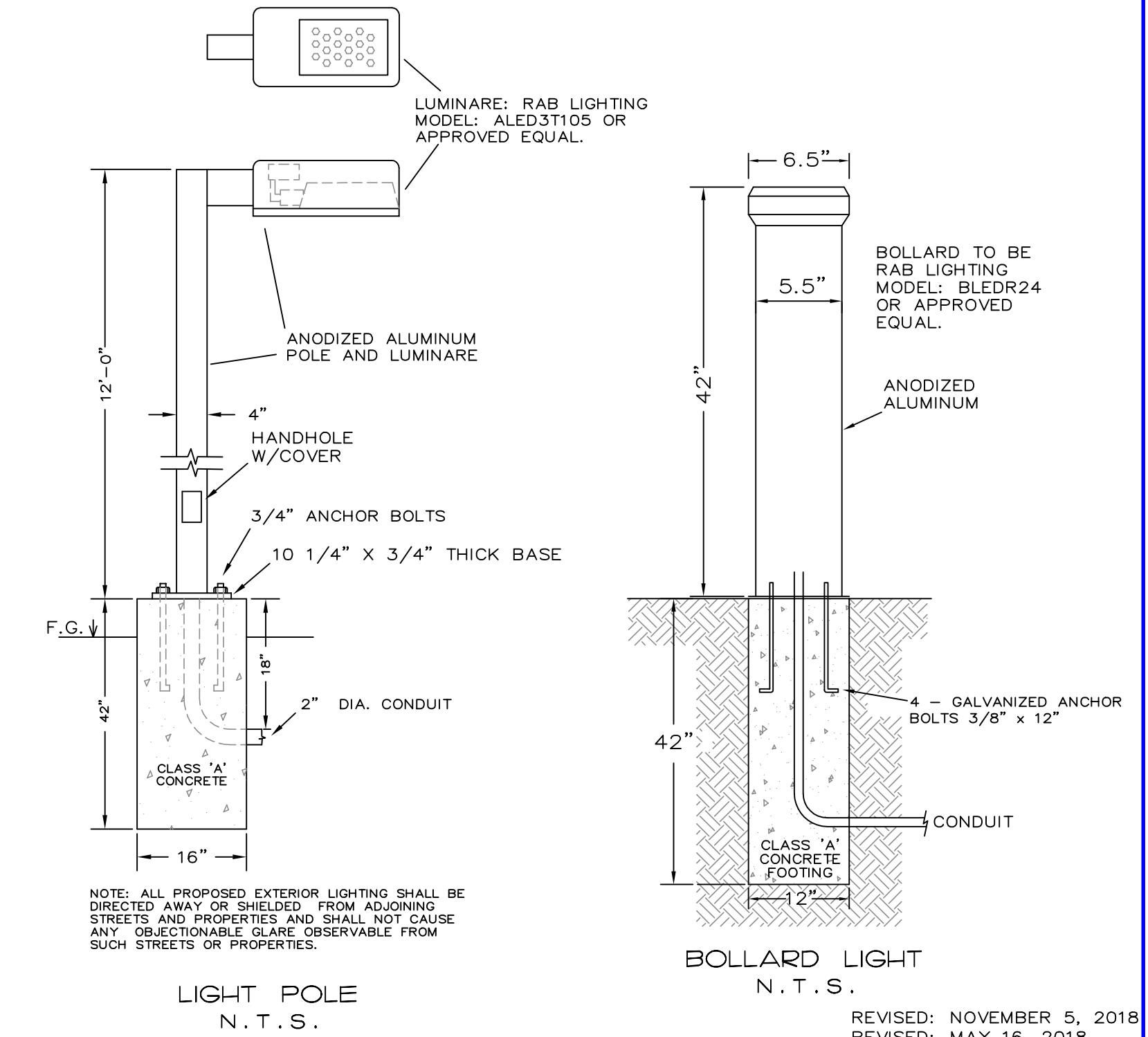
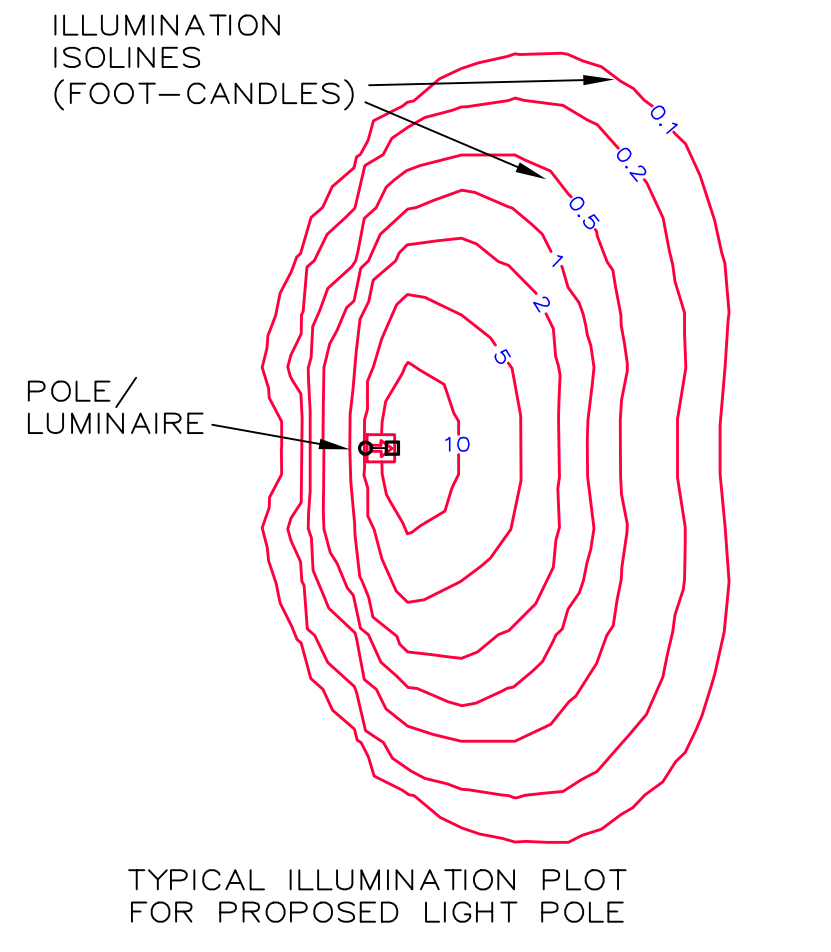






**LEGEND**

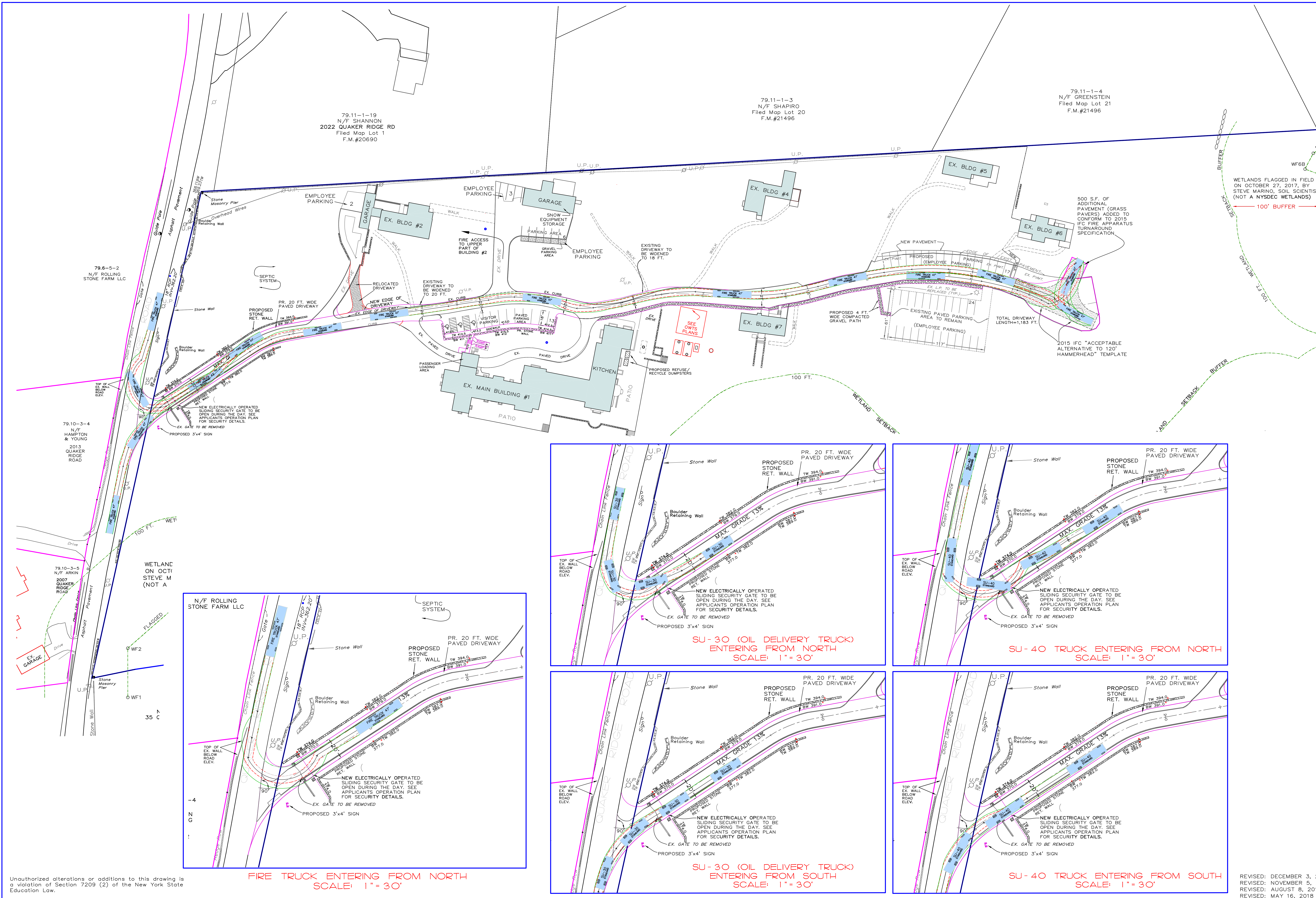
EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	CATCH BASIN
[Symbol]	[Symbol]	DRAIN MANHOLE
[Symbol]	[Symbol]	HEADWALL
[Symbol]	[Symbol]	SEWER MANHOLE
[Symbol]	[Symbol]	MONUMENT
[Symbol]	[Symbol]	O.W.T.A.
[Symbol]	[Symbol]	CONTOUR LINE
[Symbol]	[Symbol]	SPOT ELEVATION
[Symbol]	[Symbol]	DRILLED WELL
[Symbol]	[Symbol]	BOLLARD LIGHT
[Symbol]	[Symbol]	LIGHT POLE



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**SITE PLAN/  
LIGHTING PLAN**  
PREPARED FOR  
**HUDSON RIDGE  
WELLNESS CENTER**  
LOCATED AT  
**2016 QUAKER RIDGE RD  
TOWN OF CORTLANDT  
WESTCHESTER CO. NY  
JANUARY 8, 2018**  
SHEET 4 OF 7 SHEETS





**LEGEND**

EXISTING	PROPOSED	
		CATCH BASIN
		DRAIN MANHOLE
		DRAIN INLET
		HEADWALL
		SEWER MANHOLE
		MONUMENT
		O.W.T.A.
		CONTOUR LINE
		SPOT ELEVATION
		DRILLED WELL

NOTE: PROPOSED LIGHT, POLES AND OR VEGETATION SHOULD NOT BE LOCATED, OR SHOULD BE SUFFICIENTLY SET BACK FROM EDGE OF PAVEMENT, ESPECIALLY WHERE SHARP TURNS ARE MADE, TO ALLOW FOR UNIMPEDED FIRE TRUCK ACCESS.

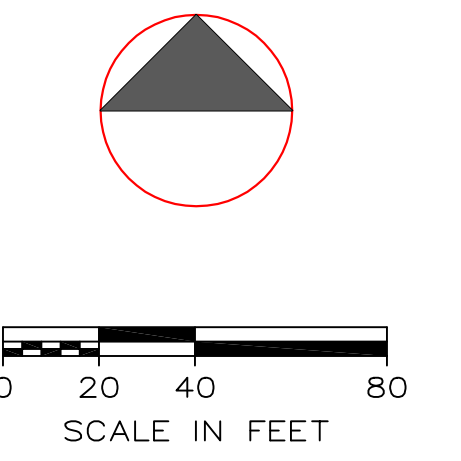
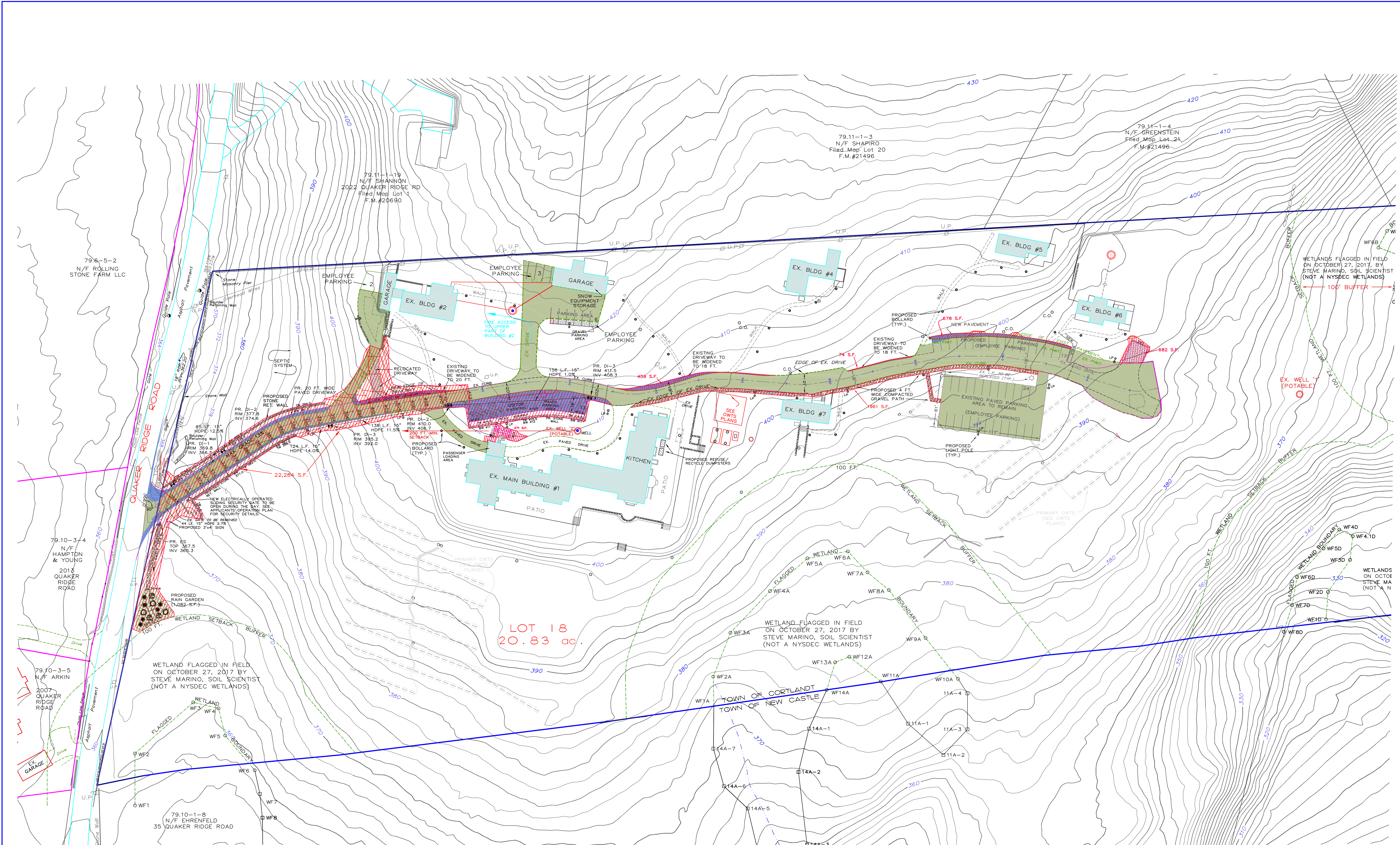
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 13 Dove Court, Croton-on-Hudson, New York 10520  
 (914) 271-4762 (914) 271-2820 Fax

**SITE PLAN/  
 FIRE ACCESS PLAN**  
 PREPARED FOR  
**HUDSON RIDGE  
 WELLNESS CENTER**  
 LOCATED AT  
**2016 QUAKER RIDGE RD  
 TOWN OF CORTLANDT  
 WESTCHESTER CO. NY**  
**JANUARY 8, 2018**  
 SHEET 5 OF 7 SHEETS

REVISED: DECEMBER 3, 2018  
 REVISED: NOVEMBER 5, 2018  
 REVISED: AUGUST 8, 2018  
 REVISED: MAY 16, 2018

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.





**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	CATCH BASIN
[Symbol]	[Symbol]	DRAIN MANHOLE
[Symbol]	[Symbol]	DRAIN INLET
[Symbol]	[Symbol]	HEADWALL
[Symbol]	[Symbol]	SEWER MANHOLE
[Symbol]	[Symbol]	MONUMENT
[Symbol]	[Symbol]	O.W.T.A.
[Symbol]	[Symbol]	CONTOUR LINE
[Symbol]	[Symbol]	SPOT ELEVATION
[Symbol]	[Symbol]	DRILLED WELL
[Symbol]	[Symbol]	BOLLARD LIGHT
[Symbol]	[Symbol]	LIGHT POLE
[Symbol]	[Symbol]	DISTURBANCE AREAS

Hudson Institute Disturbance Schedule

DESCRIPTION	DISTURBANCE S.F.	ACRES
ROADS/PARKING/WALKS/SWALE	26,609	0.610
<b>TOTAL DISTURBANCE</b>	<b>26,609</b>	<b>0.610</b>

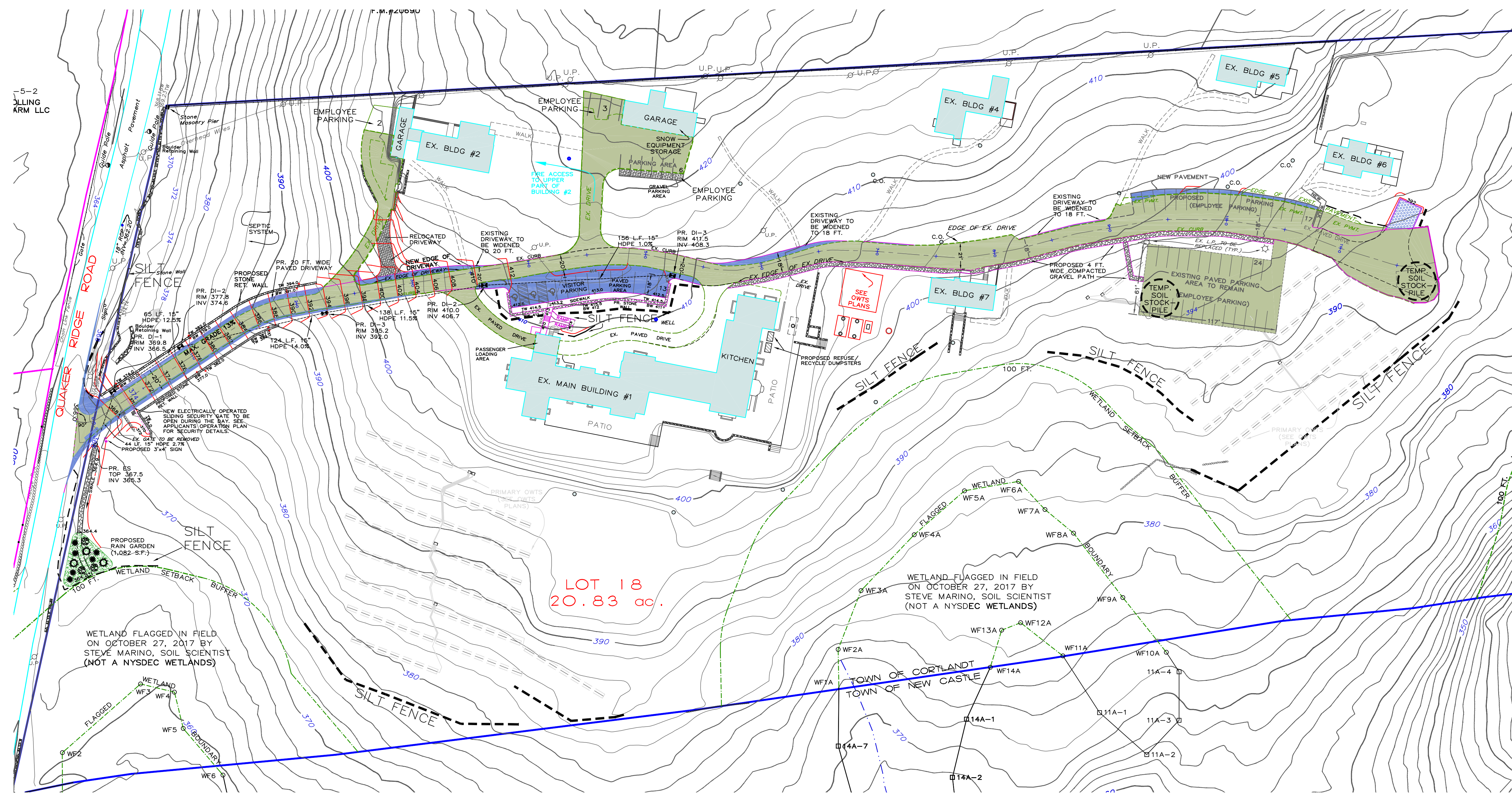
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 Consulting Engineers  
 13 Dove Court, Croton-on-Hudson, New York 10520  
 (914) 271-4762 (914) 271-2820 Fax

**SITE PLAN/  
 PROPOSED  
 DISTURBANCE PLAN**  
 PREPARED FOR  
**HUDSON RIDGE  
 WELLNESS CENTER**  
 LOCATED AT  
**2016 QUAKER RIDGE RD  
 TOWN OF CORTLANDT  
 WESTCHESTER CO. NY**  
**JANUARY 8, 2018**  
 SHEET 6 OF 7 SHEETS

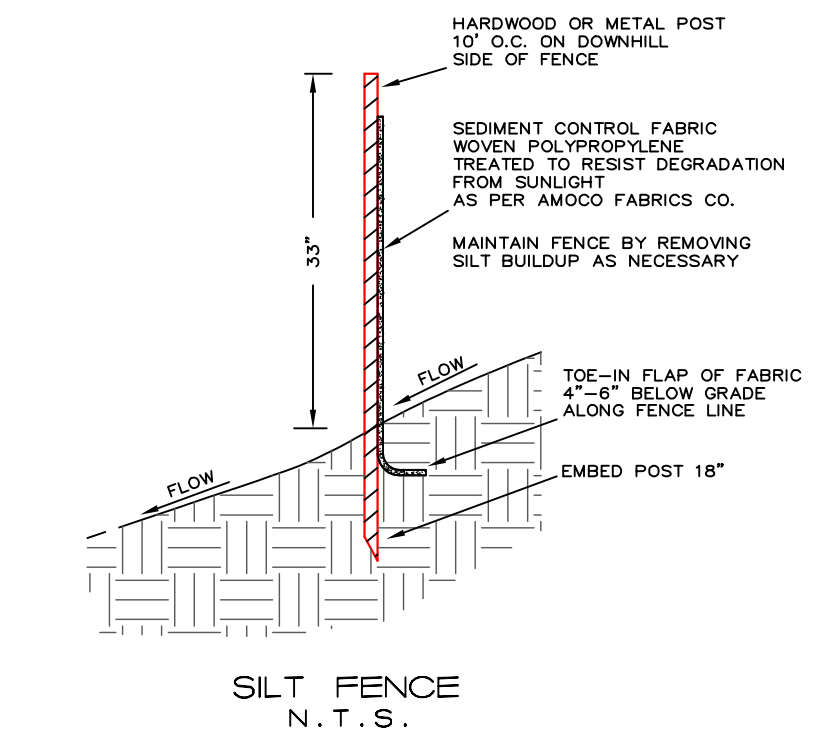
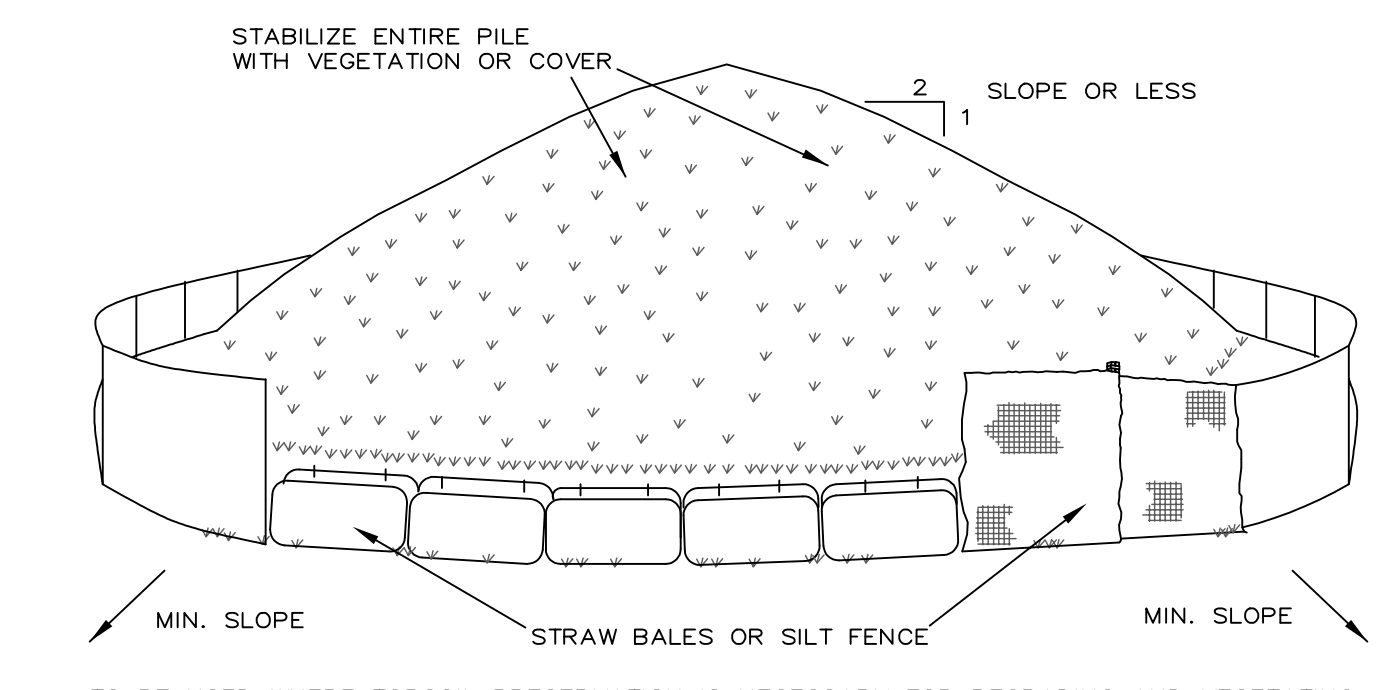
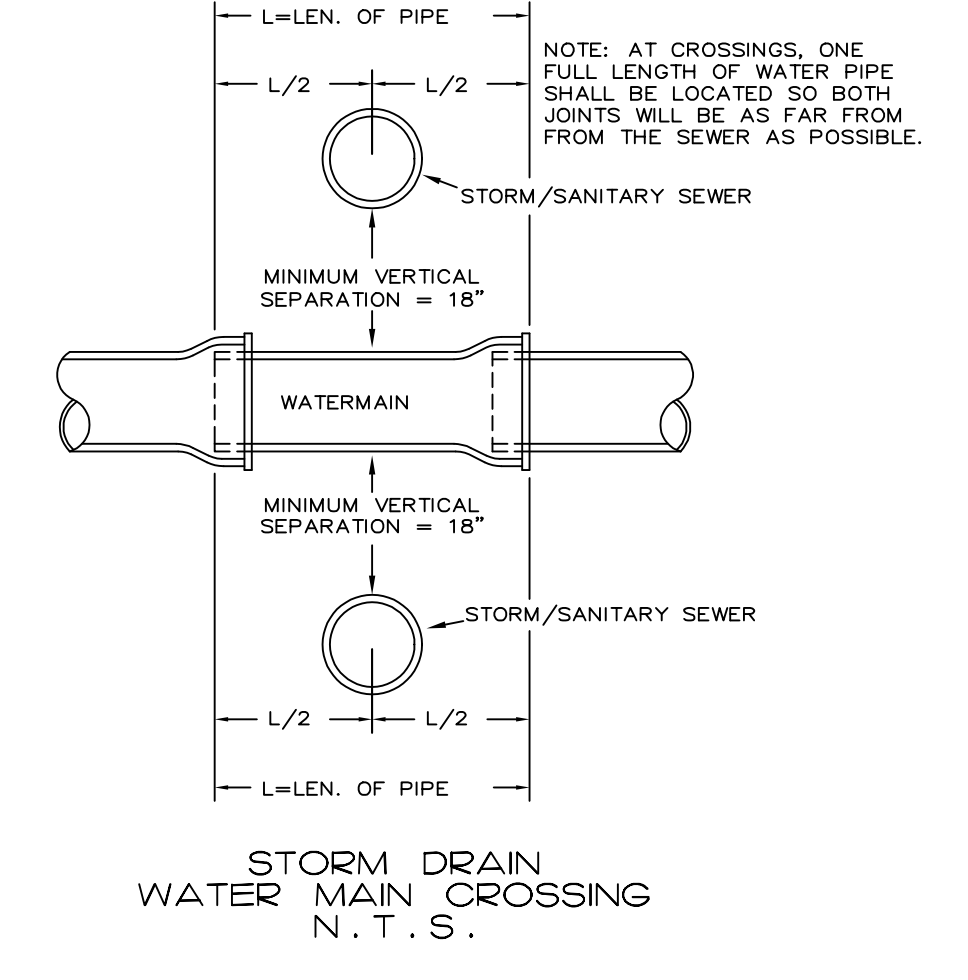
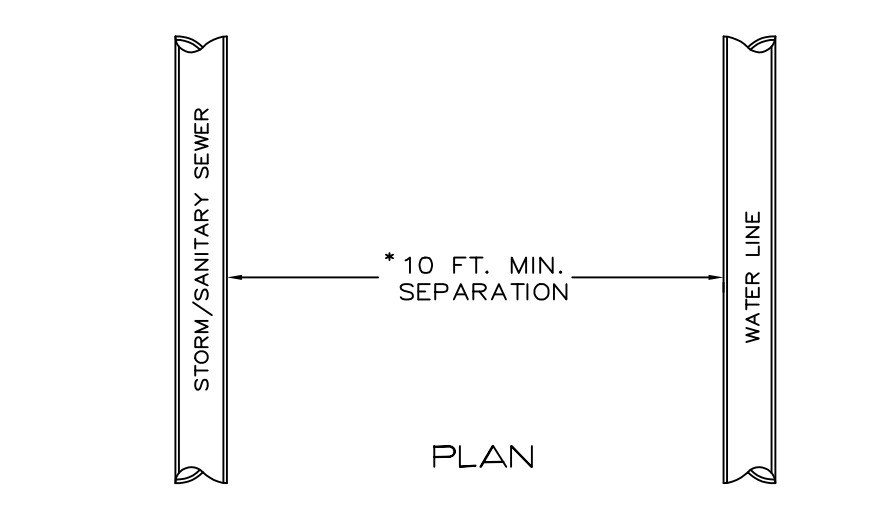
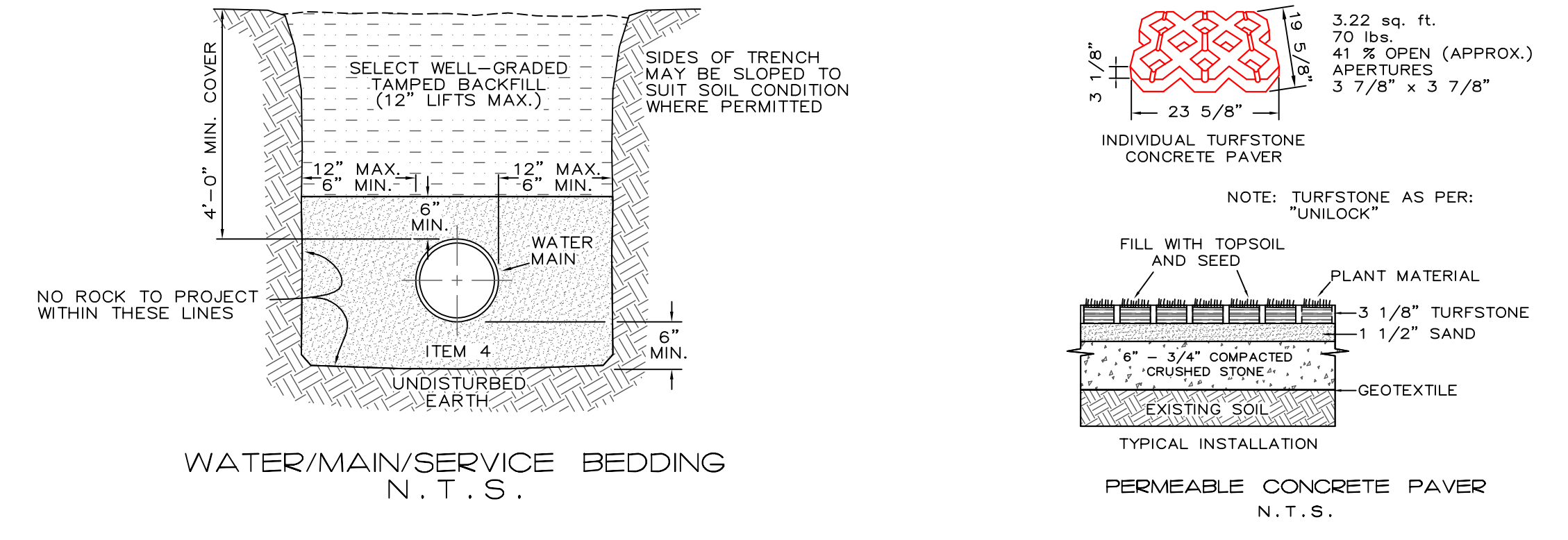
REVISED: NOVEMBER 5, 2018  
 REVISED: AUGUST 8, 2018  
 REVISED: JUNE 18, 2018  
 REVISED: JUNE 8, 2018  
 REVISED: MAY 30, 2018  
 REVISED: MAY 16, 2018

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**EROSION CONTROL PLAN**  
SCALE: 1" = 50'



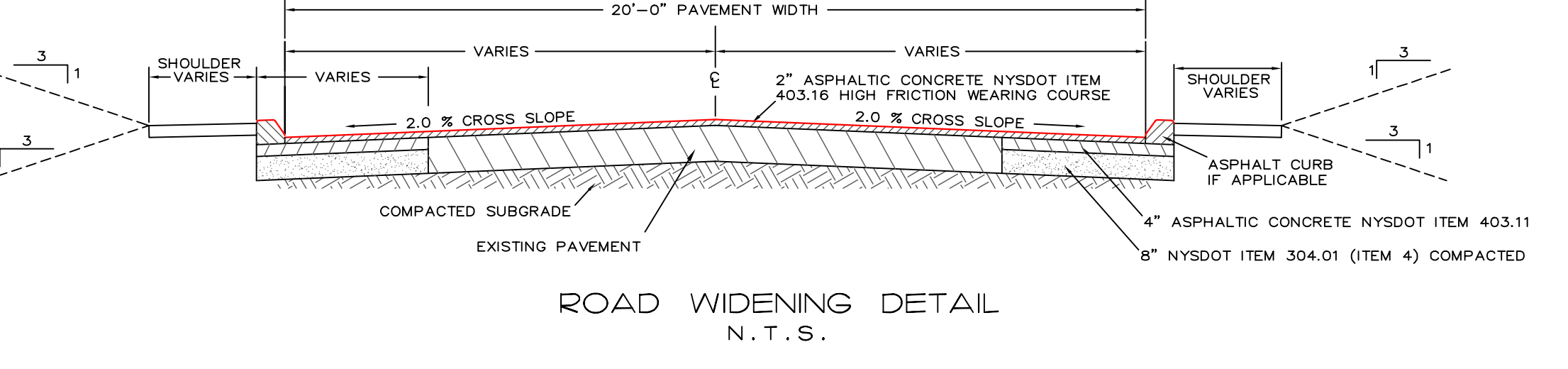
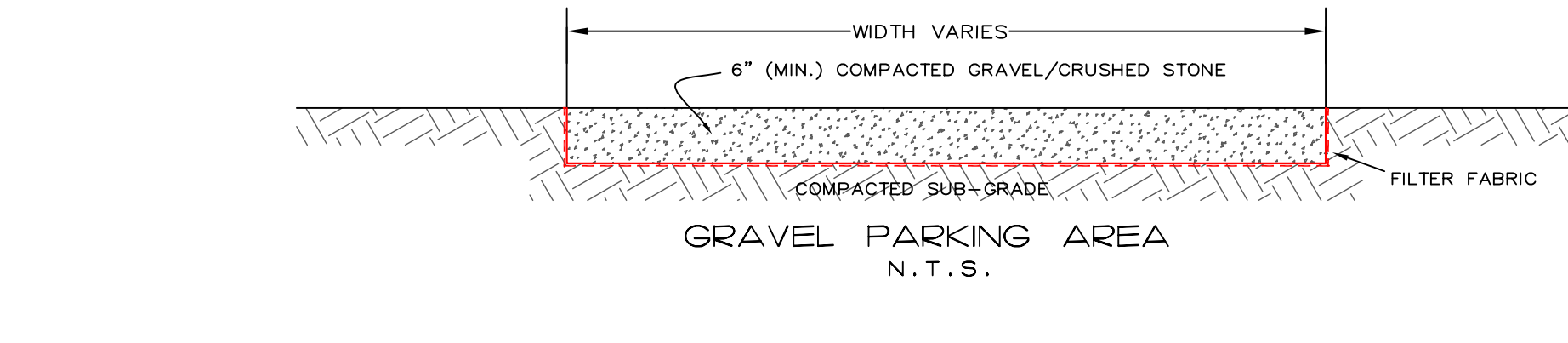
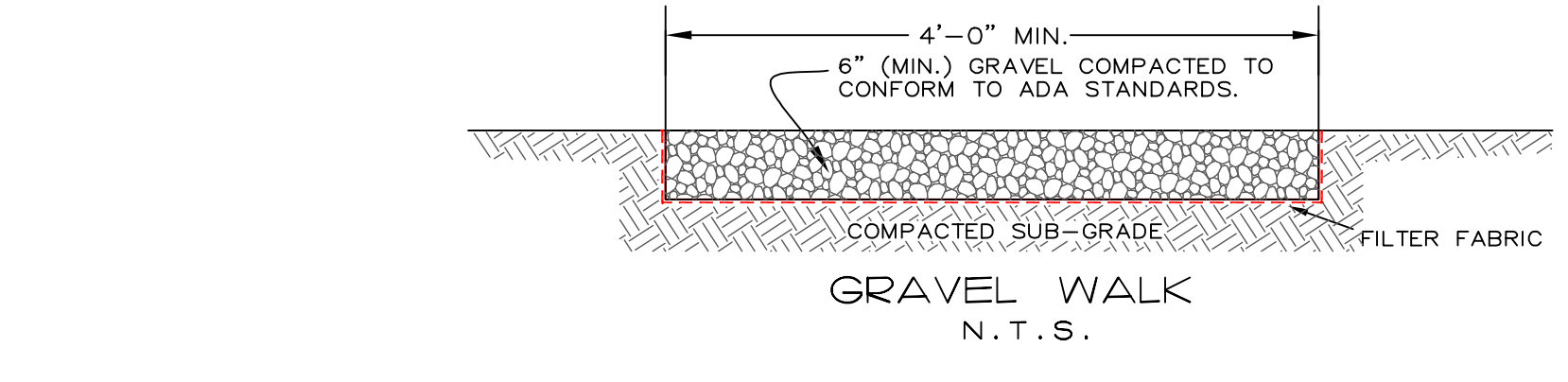
TO BE USED WHERE TOPSOIL PRESERVATION IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DROUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON-VEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED DURATION OF USE.

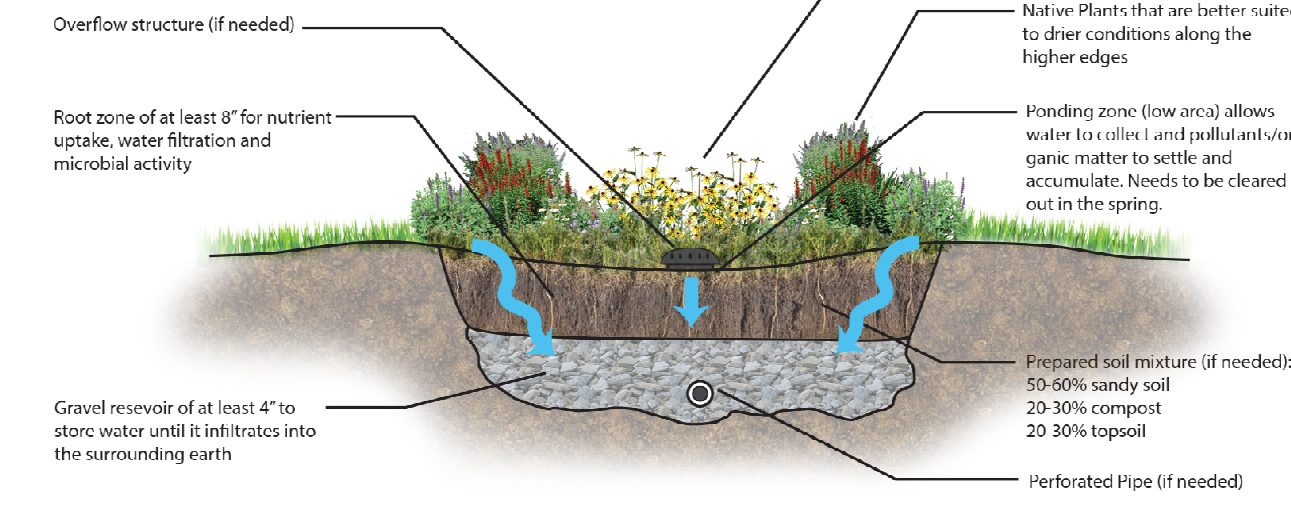
SEE EROSION CONTROL PLAN FOR LOCATIONS.

**INSTALLATION NOTES**

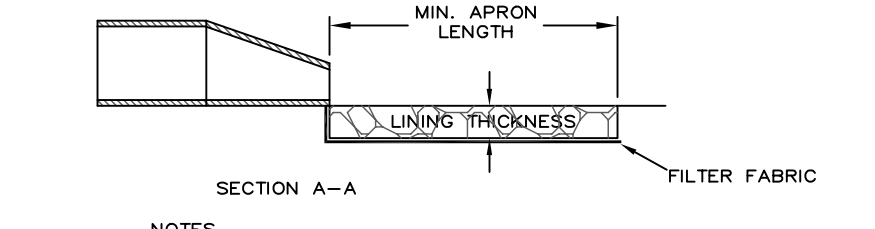
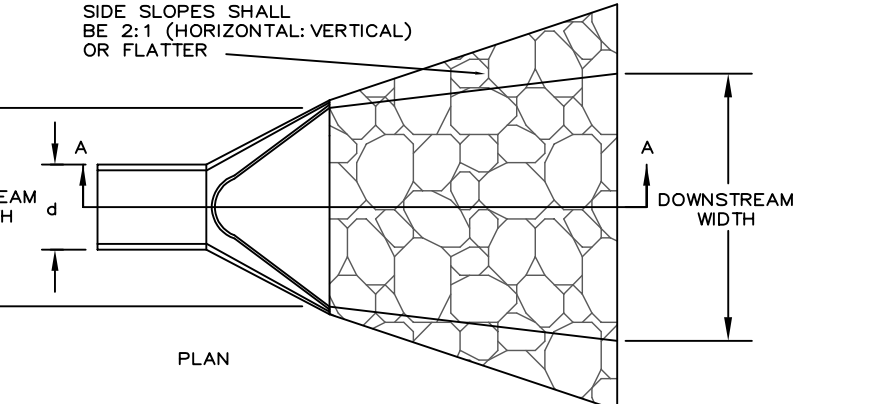
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.



**RAIN GARDEN DESIGN:**  
NEW IMPERVIOUS AREA TO BE CAPTURED: 6,568 S.F.  
CAPTURE 1.5" = (0.125") OF RAINFALL  
STORAGE VOL. REQUIRED: 821 C.F.  
AREA PROVIDED: 1,082 S.F.  
AVERAGE DEPTH PROVIDED: 1.0 FT.  
VOLUME PROVIDED: 1,082 C.F.



**TYPICAL RAIN GARDEN**  
N.T.S.



NOTE: END OF PAVEMENT VELOCITY DISSIPATOR SHALL FOLLOW DESIGN FOR 24" PIPE SIZE TO BE USED BELOW ROAD CURVES, WHERE THE CHANNEL GRADE OF THE RECEIVING EARTHEN OR VEGETATED WATERCOURSE IS STEEP, AND/OR CHANNELS ARE EMBEDDED IN HIGHLY ERODIBLE SOILS. BELOW 200 S.D. 10 INCHES IN DIAMETER THAT DISCHARGE WATER FROM EXISTING DRAINAGE CHANNELS OR STANDING OR FLOWING WATER WHERE CHANNEL SCOUR WILL CAUSE SIDE SLOPE EROSION.

PIPE SIZE (INCH)	RIP RAP SIZE (INCH)	MIN. APRON LENGTH (FEET)	UPSTREAM WIDTH (FEET)	DOWNSTREAM WIDTH (FEET)
8	6	4	1.5	1.5
12	8	4	2	2
18	12	7.0	3.75	3.75
24	18	12	6	6
36	24	18	9	9

**WALL DIMENSIONS**

HEIGHT AT BASE	WIDTH AT TOP
8'-0"	5'-0"
6'-0"	4'-0"
4'-0"	3'-0"
2'-0"	2'-0"

NOTE: TO BE USED BELOW ROAD CURVES, WHERE THE CHANNEL GRADE OF THE RECEIVING EARTHEN OR VEGETATED WATERCOURSE IS STEEP, AND/OR CHANNELS ARE EMBEDDED IN HIGHLY ERODIBLE SOILS. BELOW 200 S.D. 10 INCHES IN DIAMETER THAT DISCHARGE WATER FROM EXISTING DRAINAGE CHANNELS OR STANDING OR FLOWING WATER WHERE CHANNEL SCOUR WILL CAUSE SIDE SLOPE EROSION.

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL LOCATE AND VERIFY IN THE FIELD ALL UTILITIES - GAS, WATER, ELECTRICAL BEFORE THE START OF CONSTRUCTION. CONTRACTOR SHALL CALL CODE 703 (FORMERLY CODE 03).
2. THE INSTALLATION OF WATER AND SEWER SHALL BE UNDER THE DIRECTION OF A N.Y. STATE LICENSED PROFESSIONAL ENGINEER.
3. AS BUILT PLANS SHALL BE REQUIRED AND CERTIFIED BY A N.Y. STATE LICENSED PROFESSIONAL ENGINEER OR SURVEYOR.
4. ALL PROPERTY DISTURBED IN THE R.O.W. OR ON PRIVATE LANDS, SHALL BE RESTORED TO NEW CONDITIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION.
6. THE ROAD AND UTILITIES SHALL BE STAKED IN THE FIELD BY A N.Y. STATE LICENSED SURVEYOR OR ENGINEER.
7. UNDERGROUND GAS AND ELECTRIC SHALL BE AS REQUIRED BY THE TOWN AND CON EDISON.
8. TELEPHONE AND CABLE LINES TO BE UNDERGROUND.
9. ALL DRAINAGE PIPE TO BE HOPE UNLESS OTHERWISE NOTED.
10. GRADED SLOPES SHALL NOT EXCEED 1 VERTICAL ON 2 HORIZONTAL UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
11. ALL STRUCTURES TO BE PLACED IN PAVED AREAS SHALL BE DESIGNED FOR H-20 LOADING.

**EROSION AND SEDIMENT CONTROL NOTES**

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PROCEDURES SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION "EROSION AND SEDIMENT CONTROL GUIDELINES FOR NEW DEVELOPMENT".
3. PRIOR TO ANY EXCAVATION, SILT FENCE SHALL BE INSTALLED AT THE APPROPRIATE LOCATIONS NOTED ON EROSION CONTROL PLAN. SILT FENCING SHALL BE INSTALLED AS DIRECTED BY THE OWNER'S REPRESENTATIVE IN THE FIELD AND INSTALLED AS PER THE INSTRUCTIONS OF THE MANUFACTURER. ADDITIONAL SILT FENCE MAY BE PLACED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. SILT FENCING SHALL BE MAINTAINED IN OPERABLE CONDITION AND SHALL NOT BE REMOVED UNTIL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
4. IMMEDIATELY TOPSOIL IS SEED WITH A MIXTURE OF PERENNIAL RYE GRASS, ANNUAL RYE GRASS AND WINTER RYE AND MULCH WITH 4" OF HAY ALL FINISHED SLOPES AND ALL ROUGH OUT SLOPES TO REMAIN OPEN FOR EXTENDED PERIODS.
5. ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED, SEED, MULCHED AND STABILIZED WITH STAKED TOBACCO NETTING UNLESS OTHERWISE NOTED.
6. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED, IN ADDITION TO ALL SPECIFIED AND LOCATED EROSION CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL STEPS DEEMED NECESSARY TO STABILIZE THE SITE AT ALL TIMES.
7. DO NOT STOCKPILE MATERIALS ON STEEP SLOPES. IN DRAINAGE SWALES OR IN WETLAND AREAS, SURROUND ALL STOCKPILE AREAS WITH STAKED HAYBALES OR SILT SCREEN MATERIALS.
8. UTILITY LINE EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED ON HIGH SIDE OF EXCAVATION AND ROUNDED TO DIRECTED AWAY FROM TRENCH. AFTER BACK-FILLING, AREA IS TO BE TOPSOILED, SEED, AND MULCHED.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
10. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SEDIMENT POSSIBLE. BLASTING WILL OCCUR IN ACCORDANCE WITH REGULATIONS AND STANDARDS PRESCRIBED BY THE TOWN OF CORTLANDT.
11. BLASTING AREAS - ROCK RIPPING WILL BE USED WHEREVER POSSIBLE. BLASTING WILL OCCUR IN ACCORDANCE WITH REGULATIONS AND STANDARDS PRESCRIBED BY THE TOWN OF CORTLANDT.

RALPH G. MASTROMONACO, P.E., P.C.  
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13 Dove Court, Croton-on-Hudson, New York 10520  
(914) 271-4762 (914) 271-2820 Fax

**SITE PLAN/  
EROSION CONTROL PLAN/  
DETAILS/NOTES**  
PREPARED FOR  
**HUDSON RIDGE  
WELLNESS CENTER**  
LOCATED AT  
**2016 QUAKER RIDGE RD  
TOWN OF CORTLANDT  
WESTCHESTER CO. NY**  
JANUARY 8, 2018  
**SHEET 7 OF 7 SHEETS**

REVISED: NOVEMBER 5, 2018  
REVISED: OCTOBER 1, 2018  
REVISED: AUGUST 8, 2018  
REVISED: MAY 16, 2018

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.