DAY | STOKOSA
ENGINEERING P.C.

3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
Phone: 845-223-3202

March 12, 2021

Town of Wappinger Planning Board
20 Middlebush Road
Wappingers Falls, NY 12590
Sent via email and hand delivery

Re: Hudson Valley Lighting
Grid #6256-02-841673
M.A. Day Job No. 2020.077

Chairman Flowers and Planning Board members,

In response to the various review letters received by this office, we offer the following responses. Original comments from each letter are italicized. Our responses are in bold.

Per the CPL January 20, 2021 letter:

1. *The applicant is proposing to obtain approval for tree cutting to be able to have the trees cut within the allowable season to avoid impacts to Indiana Bats. Our office has no objection to this, given the limited area and relatively small number of trees proposed to be cut. We understand that, for this to be permitted, the SEQRA determination will need to be made by the lead agency and no earth disturbances will be permitted until the stormwater SPDES permit is in place. We understand that the Town will also require a restoration bond. Our office proposes a restoration bond of $7,200 to cover 16-new trees to replace the ones cut plus $4,000 to cover the cost of the removal and disposal of the cut trees.*
   The applicant has provided a certified check and . Town Board appoval was granted for the felling on March 8, 2021.
2. *In prior reviews, it was requested to provide all correspondence with the NYSDEC review and approval of the proposed plans.*
   The Town is copied on or forwarded all DEC submissions.
3. *Based on the provided DCDBCH approval letter dated February 4, 2020, a note should be added to the General Site Notes stating the requirements of said approval letter, "The proposed addition increases the number of employees from 102 to a maximum of 166. The total flow will be 1500 gallons per day, which is within the existing septic system capacity of 1600 gallons per day." Any further expansion of employees over the maximum of 166 will require approval by the DCDBCH.*
   The note has been added to the plan.
4. *The details of the retaining walls are noted, please specify the location and height of the proposed retaining walls. Please revise the plans to clearly show the full extent of the wall including spot*

elevations and locations of varying heights as shown in the details (i.e., 4' wall, 6' wall, etc.). If the wall is over 4' high, then a note should be placed on the plans stating that retaining walls over 4' high shall be designed by a New York State Licensed Professional Engineer and plans shall be submitted as part of the building permit application.

The location and top/bottom wall elevations can be seen on the grading and utility plans. The wall is on all proposed site plan sheets.

5. *Response to previous comment is noted, upon final design please address the following comments to the Sheet GD.1:*
    a. *Provide construction details for all stormwater management features.*
    b. *Show the location of the proposed temporary swale to corelate with the construction detail.*
    c. *Provide protection around the infiltration chambers throughout the duration of construction.*
    d. *Please label the proposed roof leader locations for clarity; and*
    e. *Please clarify the proposed grading contours in the driveway area around the truck loading and infiltration chambers.*

    These items will be provided as appropriate.
6. *Response to prior comment is noted. As previously stated, provide a construction detail for the proposed porous pavement.*

    The porous pavement detail has been provided.
7. *The Construction Sequencing notes on Sheet D.2 identifies Phase 1 notes. It is unclear if there are additional phases proposed, please clarify.*

    For the purposes of ground disturbance and keeping it under 5 acres at time, there is phasing. Of the 7.41 acres being disturbed, much is currently paved. The stormwater pond will be installed in "phase" I along with a construction entrance, silt fence and silt sac. Once installed the pond will be seeded and the proposed development areas within the impervious will be in "phase" II. The plantings adjacent to the paved areas will be installed last; in phase III.
8. Construction staging needs to be considered per the following comments:
    a. Given the site constraints with the wetlands, where will the existing parking be relocated during construction?

        There is currently an abundance of parking in the front of, and along the west side, of the building for the site (COVID aside). There is no need to relocate parking.
    b. Where will construction vehicles park?

        All construction vehicles will be parked to the north and east of the proposed building.
    c. Staging area for construction trailers and materials need to be shown.

        They have been added to the plan.
    d. Given the construction access from Maloney Road was eliminated, a construction access plan and employee safety plan should be developed.

        Construction access has been added to the plan. The eastern site entrance will be used for construction and the west for employees.
9. *The existing facility is currently connected to the DCWWA water line in Airport Drive for potable water. The existing on-site well is used to supply fire protection to the facility. Show the existing DCWWA main line and the service connection location. The EAF should be revised accordingly. If the*

fire protection storage is located outside, does the tank need to be enlarged to accommodate the building expansion?
The EAF is revised and attached herein.

The revised SWPPP is being submitted under separate cover.

Per the Hardesty and Hanover letter dated January 27, 2021 we offer the following:
REVIEW COMMENTS

1. - 3. **Comments noted**
4. *Lighting. There are two poles proposed at the north east corner of the parking area. These two poles are a different fixture than the other poles lining the periphery of the parking area. These two poles are proposed at a lower height than the other lights on the property (15' compared to 25' poles along the parking area and 20' wall mounted lights lining the building) and at significantly higher level of illumination than the other lights (12 footcandles compared to 3-4 footcandles on the other poles and 1-1.5 along the building). We question if this is done with intention and if the proposed lighting can be reduced without disruption to proposed activities. Additionally, the applicant should confirm the color temperature of the proposed lighting. In general, we do not recommend color temperatures exceed 3000K. In instances where wildlife, particularly the endangered Indiana Bat, is at risk of impact, a lower color temperature may be desirable.*
   The lighting has been modified. The specs are included. Lighting is shown for the banked spaces to the north.
   To the west the grade drops substantially and the tree line is not impacted by spillage. Being the fixtures are type III distribution, spillage to the east tree line is also minimal. The temperature of all fixtures is 3000K and will have dimming and timing control.
5. *Wetlands. According to the plans and Full EAF, there are Federal and State regulated wetlands on and adjacent to the property. A wetland functional analysis report concerning the on-site wetlands was submitted by the applicant to the New York State Department of Environmental Conservation (NYSDEC). It appears from the NYSDEC response letter that they deem the application submitted to be incomplete. The applicant should address this.*
   A number of the items noted in the NOIA (dated December 17, attached) from the DEC were addressed in the January 19 submission to the DEC. The Town was copied on that submission and a copy is included herein. A Phase 1A/1B Is recommended by SHPO. A Phase 1B requires soil samples be taken so this work is obviously weather dependent. However, when that report is complete, the Town will be copied on the submission to SHPO.
6. Floodplain. A portion of the property is located within the 100-year floodplain. It appears that the Project does not include development within the 100-year floodplain and may not require a Floodplain Development Permit pursuant to Section 240-33 of the Zoning Law and Chapter 133 of the Town Code. We defer to the Zoning Administrator and Town Engineer with regard to this matter.
   Comment noted.

Per the Town of Wappinger Fire Prevention Bureau, we offer the following:

- **The northwest hydrant has been relocated to the opposite side of the drive aisle and is now 52 feet from the building. A hydrant has been relocated from where it currently resides at the northeast side of the existing building to the north eastern side of the proposed addition.**
- **Currently there are two - 100,000-gallon water storage tanks on the property. One is offline, empty and not in use. The other is used for the fire suppression system. There is a diesel fire pump located in a building at the base of the water storage tank. The tank not in use can be retrofitted to feed the additional sprinkler system. The fire suppression system will be included in the building plans which will be submitted as a component of the building permit application.**

We look forward to discussing this project with the Board at the upcoming Planning Board meeting. If you have any questions or require any additional information, I can be reached at 845.223.3202.

Very truly yours,

Amy Bombardieri
Day and Stokosa Engineering, P.C.

Cc: CPL, H&H, Client, file

ALED3T78Y

Color: Bronze

Weight: 31.4 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.66A
208V	0.41A
240V	0.35A
277V	0.30A
Input Watts	76.8W

LED Info

Watts	78W
Color Temp	3000K (Warm)
Color Accuracy	70 CRI
L70 Lifespan	100,000 Hours
Lumens	8,765
Efficacy	114.1 lm/W

Technical Specifications

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Compliance

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. DLC Product Code: P0000179T

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

UL Listed:

Suitable for wet locations as a downlight

Dark Sky Conformance:

Conforms to (allows for conformance to) the requirements for the IDA's "Fixture Seal of Approval" as of March 1, 2016.

Construction

IES Classification:

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

IP Rating:

Ingress Protection rating of IP66 for dust and water

Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Thermal Management:

Superior heat sinking with external Air-Flow fins

Effective Projected Area:

EPA = 0.75

Lens:

Tempered glass lens

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Mounting:

Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

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Technical Specifications (continued)

Construction

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:

Six (6) multi-chip, 13W, high-output, long-life LEDs

Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Electrical

Driver:

Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%

THD:

4.4% at 120V, 12.4% at 277V

Power Factor:

99.5% at 120V, 93.5% at 277V

Surge Protection:

4kV

Other

Patents:

The ALED design is protected by patents in the U.S. Pat. 668,370, Canada Pat. 144956, China ZL201230100154.X, and Mexico Pat. 38423. Pending patents in Taiwan.

BAA Compliance:

Click here for BAA compliance.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Equivalency:

Equivalent to 250W Metal Halide

Buy American Act Compliance:

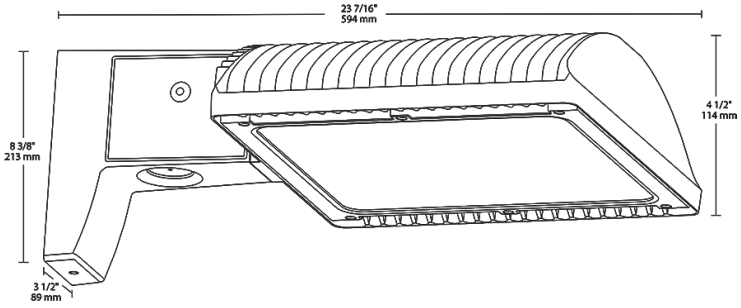
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

BUG Rating:

B1 U0 G2

Dimensions



Features

- 66% energy cost savings vs. HID
- 100,000-hour LED lifespan
- 5-Year, No-Compromise Warranty

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ALED3T78Y

RAB

Ordering Matrix

Family	Optics	Wattage	Mounting	Color Temp	Finish	Driver Options	Options	Other Options
ALED	3T	78		Y				
	4T = Type IV **3T =** Type III **2T =** Type II	**50 =** 50W **78 =** 78W **105 =** 105W **125 =** 125W **150 =** 150W	**Blank =** Pole mount **SF =** Slipfitter	**Blank =** 5000K (Cool) **N =** 4000K (Neutral) **Y =** 3000K (Warm)	**Blank =** Bronze **RG =** Roadway Gray **W =** White **K =** Black	**Blank =** 120-277V **/480 =** 480V **/BL =** Bi-Level **/D10 =** 0-10V Dimming **/480/D10 =** 480V, 0-10V Dimming	**Blank =** No Option **/LC =** Lightcloud® Controller **/PCS =** 120V Swivel Photocell **/PCS2 =** 277V Swivel Photocell **/PCT =** 120-277V Twistlock Photocell **/PCS4 =** 480V Swivel Photocell **/PCT4 =** 480V Twistlock Photocell **/WS2 =** Multi-Level Motion Sensor 20 ft. **/WS4 =** Multi-Level Motion Sensor 40 ft.	**Blank =** Standard **USA =** BAA Compliant

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WP1LED39L-730U

Color: Bronze

Weight: 4.4 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.22A
208V	0.13A
240V	0.12A
277V	0.10A
Input Watts	26.4W

LED Info

Watts	26W
Color Temp	3000K (Warm)
Color Accuracy	71 CRI
L70 Lifespan	100,000 Hours
Lumens	3,826
Efficacy	144.9 lm/W

Technical Specifications

Compliance

UL Listed:

Suitable for wet locations

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. DLC Product Code: PLA9DPTU

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

LED Characteristics

LEDs:

Multip-chip, high-output, long-life LEDs

Construction

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

40°C (104°F)

Housing:

Die-cast aluminum

Reflector:

Aluminum Alloy

Lens:

Acrylic lens

Gaskets:

High-temperature silicone gaskets

Mounting:

Surface mount

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

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Technical Specifications (continued)

Electrical

Drivers:

Constant Current, 120-277V, 50/60 Hz, 120V: 0.22A, 208V: 0.13A, 240V: 0.12A, 277V: 0.10A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

9.3% at 120V, 17.7% at 277V

Power Factor:

99% at 120V, 89% at 277V

Surge Protection:

2kV

Note:

All values are typical (tolerance +/- 10%)

Other

Equivalency:

Equivalent to 100W Metal Halide

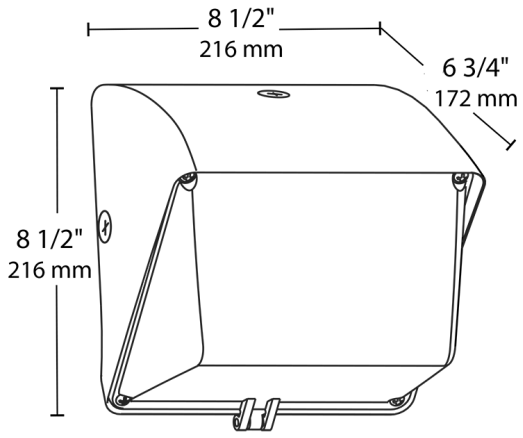
Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- Affordable wall pack with traditional look
- Ultra-high efficacy
- Covers footprint of small HID wall packs
- 100,000-Hour LED lifespan

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WP1LED39L-730U

Ordering Matrix

Family	Lumen Pack Wattage		CRI/Color Temp	Finish	Voltage	Options
WP1LED	39L	–	730		U	
	39L = 3900lumens, 26W		**750 =** 70 CRI, 5000K **740 =** 70 CRI, 4000K **730 =** 70 CRI, 3000K	**Blank =** Bronze **W =** White	**U =** 120-277V, 0-10V Dimmimg **H =** 480V, 0-10V Dimming	**Blank =** No Options **/PCU =** 120-277V Button Photocell **/PCS =** 120V Swivel Photocell **/PCS2 =** 208V-277V Swivel Photocell **/PCS4 =** 480V Swivel Photocell **/MVS =** 120-277V Microwave Sensor **/LC =** Lightcloud® Controller **/E2 =** Battery Backup

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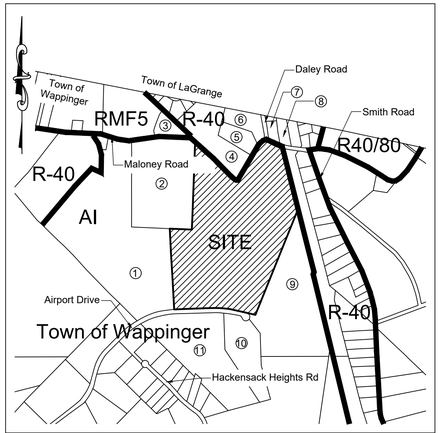
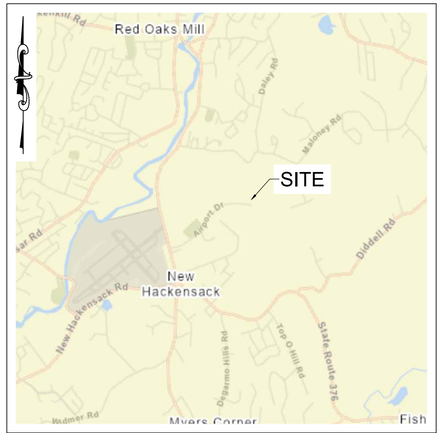


LOCATION MAP SCALE: 1" = 1,000'



AREA MAP SCALE: 1" = 1,000'

1. HP Coolidge Maloney Road
   4 W Red Oak Lane
   White Plains, NY 10640
   For Property:135689-6259-02-681675
2. HP Coolidge Maloney Road
   4 W Red Oak Lane
   White Plains, NY 10640
   For Property:135689-6259-02-753743
3. Robert Quaranto
   909 Beekman Road
   Hopewell Junction, NY 12533
   For Property:135689-6259-02-760823
4. Robert Hammond
   450 Maloney Road
   Poughkeepsie, NY 12603
   For Property:135689-6259-02-818820
5. Nicola Mastrantuono
   410 Maloney Road
   Wappingers Falls, NY 125900
   For Property:135689-6259-02-858806
6. Pier DiCamillo
   162 Daley Road
   Poughkeepsie, NY 12603
   For Property:135689-6259-02-865829
7. Thomas Lasko
   404 Maloney Road
   Poughkeepsie, NY 12603
   For Property:135689-6259-02-903818
8. Dutchess County
   22 Market Street
   Poughkeepsie, NY 12601
   For Property:135689-6359-03-075290
9. Global Satellite, LLC
   3 Nancy Court
   Wappinger Falls, NY 12590
   For Property:135689-6259-02-908414
10. Alfred Rabasco
    478 Rossway Road
    Pleasant Valley, NY 12569
    For Property:135689-6259-04-870494
11. N.A.C. Industries Inc.
    154 East Boston Post Road
    Mamaroneck, NY 10543
    For Property: 135689-6259-04-815490

Zoning & Bulk Regulations

Zone Classification	AI - Airport Industry
Use	Warehouse
Tax Map Parcel No	135689-6259-02-841673
Topographic Datum	NAVD 88
Total Acreage:	67.00 +/- Ac.
Water Supply:	Private Water Supply
Sewage Disposal:	Private Sewage Disposal System

240 Attachment 4

Schedule of Dimensional Regulation - Nonresidential Districts

Bulk Regulations:	Required	Existing	Proposed
Minimum Area	2 Ac	67 Ac.	67 Ac.
Minimum Lot Width (feet)	200'	1354'	1354'
Minimum Depth (feet)	200'	1135.33'	1135.33'
Minimum street frontage (feet)	150'	2115.58'	2115.58'
Minimum Front Yard (feet) from:			
County/State Highway	75'	N/A	N/A
Front Lot Line of other Street	100	199.6'	199.6'
Minimum Side Yard[3](feet)	50'	245.5'	245.5'
Side Yard R-40	25'	1132.1'	1127'
Accessory Building <15 feet high	50'	N/A	N/A
Minimum Rear Yard[4](feet)	50'	1153.8'	802.6'
Rear Yard R-40	50'	1153.8'	802.6'
Accessory Building <15 feet high	50'	N/A	N/A
Maximum Building Height (stories/feet)	2.5/35'	2/<35'	2/<35'
Maximum Building Coverage (percent)	20%	8.3%	13.3%
Maximum Floor Area Ratio	0.3	0.083	0.13
Maximum Impervious Surface (%)	75%	14.59%	22.1%
Minimum Landscaped Open Space	25%	44.16%*	38.7%*
Minimum parking setback (feet) From:			
Front Lot Line	--	--	--
Side and rear lot line	--	--	--

[3] Where a lot abuts land in a residential district, the most restrictive side yard setback requirement of either district shall govern.

[4] Where a lot abuts land in a residential district, the most restrictive rear yard setback requirement of either district shall govern.

*Percentage of area of development.

Off-street Parking Calculations

§240-97 Off-Street Parking and Loading

Use	Minimum Off-street Parking
Wholesale, storage, utility or other similar commercial use	1 per employee but not less than 1 per 1000 square feet of gross floor area

Use	Square Feet Existing	Square Feet Proposed	Existing	Required	Proposed
Warehouse	244,393 S.F.		227	244	
		142,500 S.F.		143	
		386,893 S.F.Total			200
Landbanked spaces					187
		Total:		387	387

AMENDED SITE PLAN
FOR
HUDSON VALLEY LIGHTING
Tax Map No. 135689-6259-02-841673
151 Airport Drive
Town of Wappinger

PREPARED FOR
Jaleli, LLC
151 Airport Drive
Wappingers Falls, NY 12590

Know what's below. Call before you dig.

GENERAL SITE NOTES

1. THE CONTRACTOR IS TO VISIT THE SITE AND THOROUGHLY ACQUAINT HIMSELF WITH ALL EXISTING CONDITIONS. TO CHECK AND VERIFY ALL CONDITIONS, DIMENSIONS, ETC. AND REPORT TO THE ARCHITECT ANY ERRORS, OMISSIONS, OR VARIATION FROM INTENT OF THE PLANS, PRIOR TO THE START OF WORK.
2. DRAWINGS ARE NOT TO BE SCALED: USE DIMENSIONS ONLY.
3. CONTRACTOR TO OBTAIN AND PAY FOR ALL REQUIRED LOCAL PERMITS. NO WORK IS TO COMMENCE UNTIL ALL PERMITS ARE OBTAINED.
4. THOSE ITEMS NOT NOTED, BUT IMPLIED AS NECESSARY FOR THE PERFORMANCE OF THE CONTRACT ARE CONSIDERED PART OF THE WORK.
5. ALL MATERIAL AND WORKMANSHIP IS TO BE GUARANTEED BY THE CONTRACTOR TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR. THE CONTRACTOR AGREES TO CORRECT, WITHOUT CHARGE, SUCH CONDITIONS AS MAY OCCUR DURING THE GUARANTEE PERIOD.
6. ALL WORK IS TO BE EXECUTED BY MECHANICS SKILLED IN THEIR TRADES.
7. ALL CHANGES AND/OR SUBSTITUTIONS ARE TO BE APPROVED IN WRITING BEFORE BEING INCORPORATED INTO THE WORK.
8. ALL TRADES TO COOPERATE WITH EACH OTHER TO FACILITATE THE PROGRESS OF THE ENTIRE JOB.
9. CONTRACTOR SHALL VERIFY WITH LOCAL UTILITY COMPANY THE POSSIBILITY OF ANY UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
10. CONTRACTOR IS TO REMOVE ALL RUBBISH FROM THE SITE RESULTING FROM HIS WORK DURING THE PROGRESS OF CONSTRUCTION AND SHALL LEAVE THE PREMISES IN A CONDITION SATISFACTORY TO THE OWNER PRIOR TO THE FINAL PAYMENT.
11. ALL MATERIALS, ASSEMBLIES, CONSTRUCTION AND EQUIPMENT SHALL CONFORM TO THE REGULATIONS OF THE BUILDING CODE OF NEW YORK STATE AND SHALL CONFORM TO GENERALLY ACCEPTED STANDARDS.
12. THE PROPOSED ADDITION INCREASES THE NUMBER OF EMPLOYEES FROM 102 TO A MAXIMUM OF 166. THE TOTAL FLOW WILL BE 1500 GALLONS PER DAY, WHICH IS WITHIN THE EXISTING SEPTIC SYSTEM CAPACITY OF 1600 GALLONS PER DAY. ANY FURTHER EXPANSION OF EMPLOYEES OVER THE MAXIMUM OF 166 WILL REQUIRE APPROVAL BY THE DCDBCH.

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

EMPLOYEES ARE LIMITED TO 166 TOTAL. IN THE EVENT EMPLOYMENT EXCEEDS 166, PORTIONS OF BANKED PARKING SHALL BE INSTALLED.

BOUNDARY AND TOPOGRAPHICAL INFORMATION PER SURVEY PREPARED BY MILLMAN NATIONAL LAND SERVICES, PROJECT NUMBER 27481.

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EC.1	6 of 13	Erosion & Sediment Control Plan
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LP.1	9 of 13	Lighting Plan
VM.1	10 of 13	Vehicle Manuvering Plan
TCP.1	11 of 13	Tree Clearing Plan
DT.1	12 of 13	Detail Sheet
DT.1	13 of 13	Detail Sheet

Dutchess County Dept. of Health

Owner/Applicant

Hudson Valley Lighting
151 Airport Road
Wappinger Falls, NY 12590

Owner's Consent Note

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

Authorized Agent of Hudson Valley Lighting DATE

Town of Wappinger Planning Board

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF WAPPINGER, NEW YORK ON THE _____ DAY OF_____, 2020 SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED SHALL VOID THIS APPROVAL.

TOWN OF WAPPINGER PLANNING BOARD

SIGNED THIS_____ DAY OF _____, 2020

Bruce Flower, TOWN OF WAPPINGER PLANNING BOARD CHAIR

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

	Mark A. Day, PE
March 12, 2021	
February 16, 2021	
January 15, 2021	
January 6, 2021	
November 20, 2020	
Revisions: August 03, 2020	
Project No: 2020:077	License No. 069646

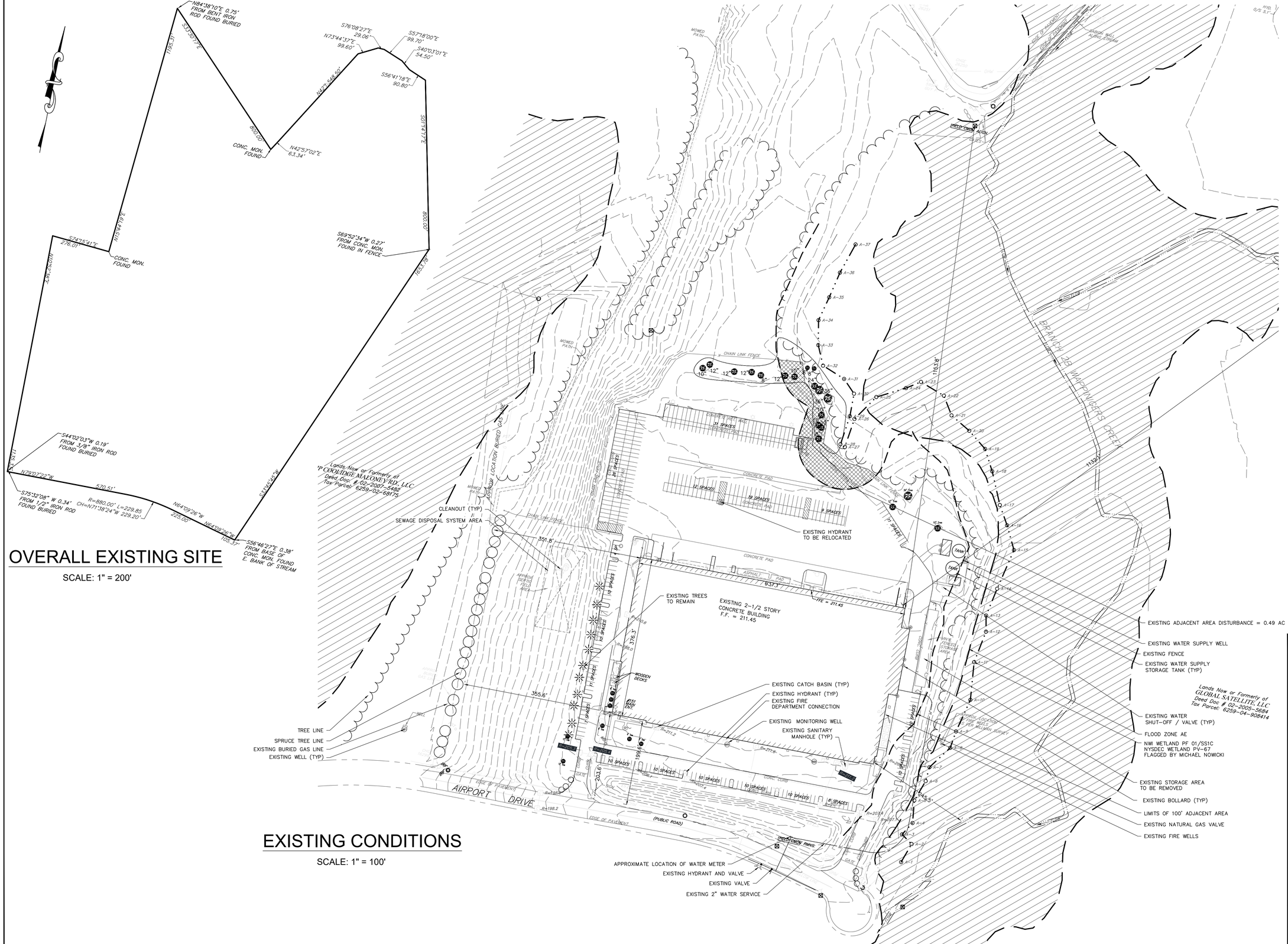
STATE OF NEW YORK · MARK A. DAY · LICENSED PROFESSIONAL ENGINEER · No. 069646

DAY | STOKOSA ENGINEERING P.C.
3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

PROJECT
Hudson Valley Lighting
Town of Wappinger Dutchess County, New York

DRAWING
Title Sheet

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	TB-1
DATE	CHECKED BY	1 of 14
03-09-2020	MAD	



OVERALL EXISTING SITE

SCALE: 1" = 200'

EXISTING CONDITIONS

SCALE: 1" = 100'

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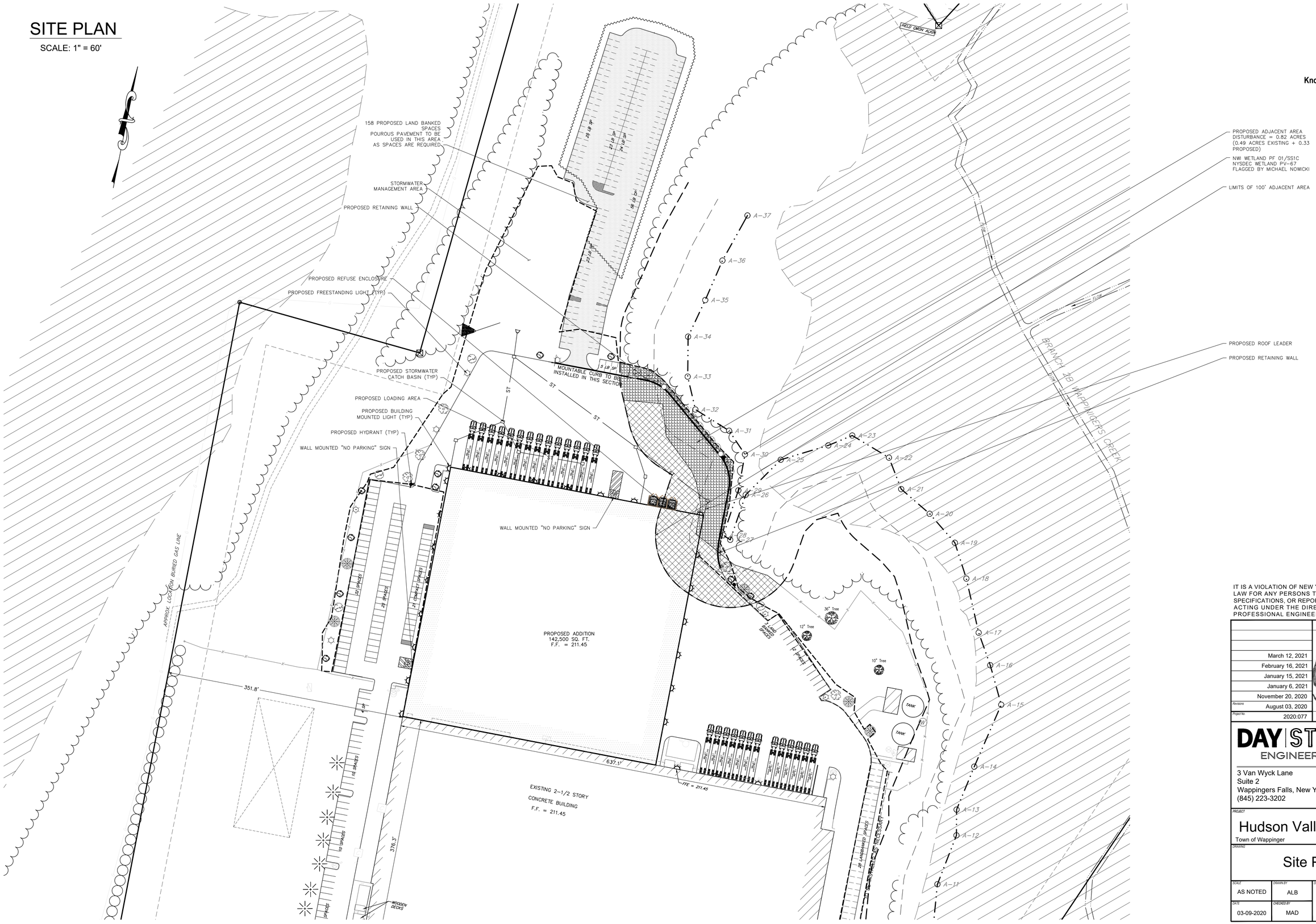
PROJECT
Hudson Valley Lighting
Town of Wappinger — Dutchess County, New York

DRAWING
Existing Conditions

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	EC-1
DATE	CHECKED BY	2 of 14
03-09-2020	MAD	

SITE PLAN

SCALE: 1" = 60'



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PROJECT

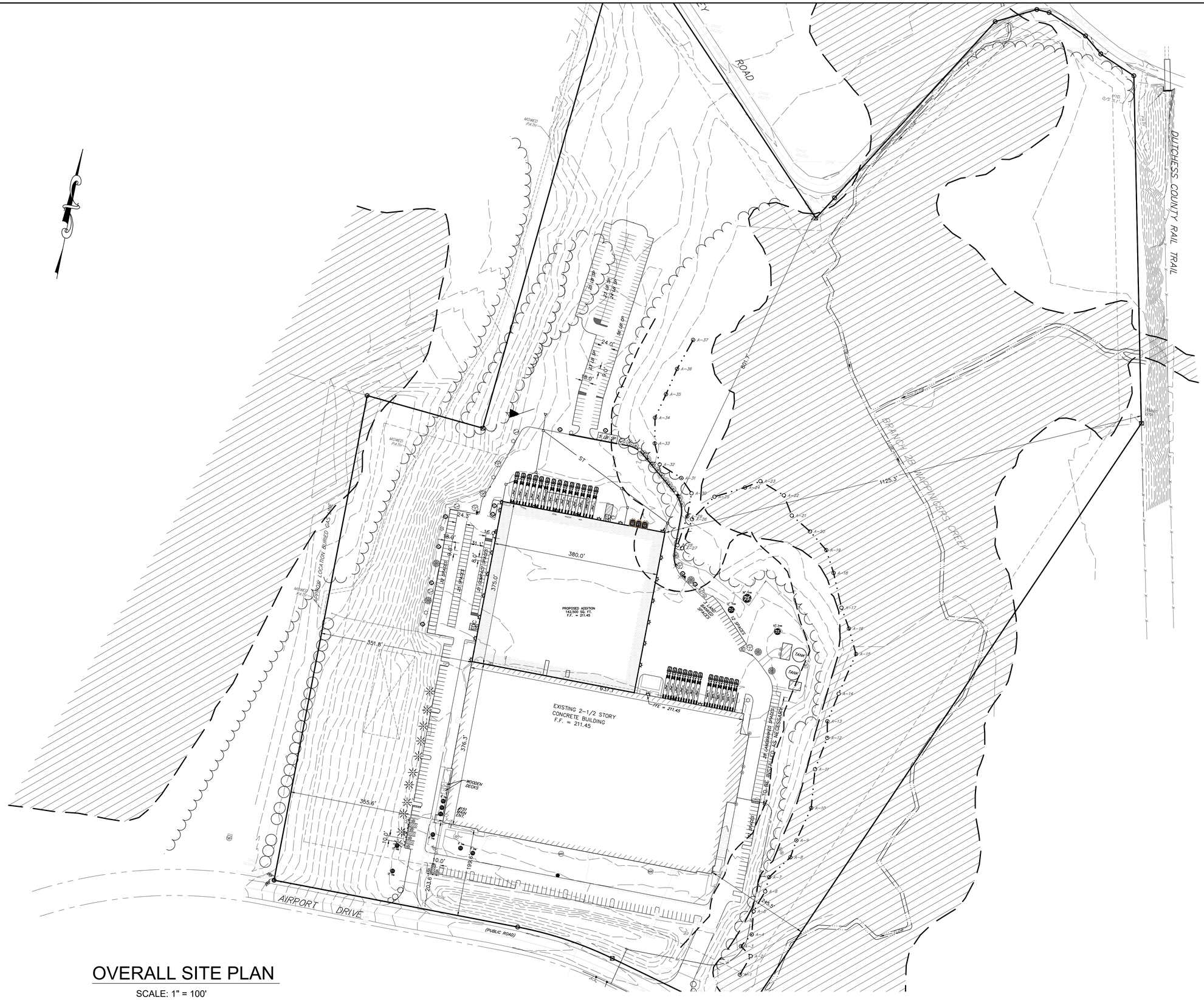
Hudson Valley Lighting

Town of Wappinger — Dutchess County, New York

DRAWING

Site Plan

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	SP.1
DATE 03-09-2020	CHECKED BY MAD	3 of 14



OVERALL SITE PLAN

SCALE: 1" = 100'

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PROJECT

Hudson Valley Lighting

Town of Wappinger — Dutchess County, New York

DRAWING

Overall Site Plan

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	SP.2
DATE	CHECKED BY	4 of 14
03-09-2020	MAD	

EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 60'

Know what's **below.**
Call before you dig.

EMPLOYEE ENTRANCE
INSTALL TEMPORARY SIGN

CONSTRUCTION TRAFFIC
INSTALL TEMPORARY SIGN

PROPOSED SILT FENCE (TYP)

PROPOSED
INFILTRATION AREA

AREA OF BANKED PARKING DISTURBANCE = 1.01 ACRES

PROPOSED FLARED END SECTION TO RIPRAP

PROPOSED TEMP. SEDIMENT TRAP (TYP)

SOIL STOCKPILE (TYP)

CONCRETE WASHOUT

TOTAL LIMIT OF DISTURBANCE – 7.41 ACRES
6.40 ACRES – NOT INCLUDING BANKED PARKING
1.01 COMPLETE LANDBANK PARKING DISTURBANCE
(0.82 ACRES OF DISTURBANCE ARE IN
ADJACENT AREA – DEPICTED WITH HATCHING)

COMPOST FILTER SOCK EROSION CONTROL

TEMPORARY CONSTRUCTION ROAD

STABILIZED CONSTRUCTION ENTRANCE

PROPOSED
STAGING AREA

PROPOSED ADDITION
142,500 SQ. FT.
F.F. = 211.45

EXISTING BUILDING

EXISTING 2–1/2 STORY
CONCRETE BUILDING
F.F. = 211.45

FFE = 211.45

637.1'

351.8'

60'

40'

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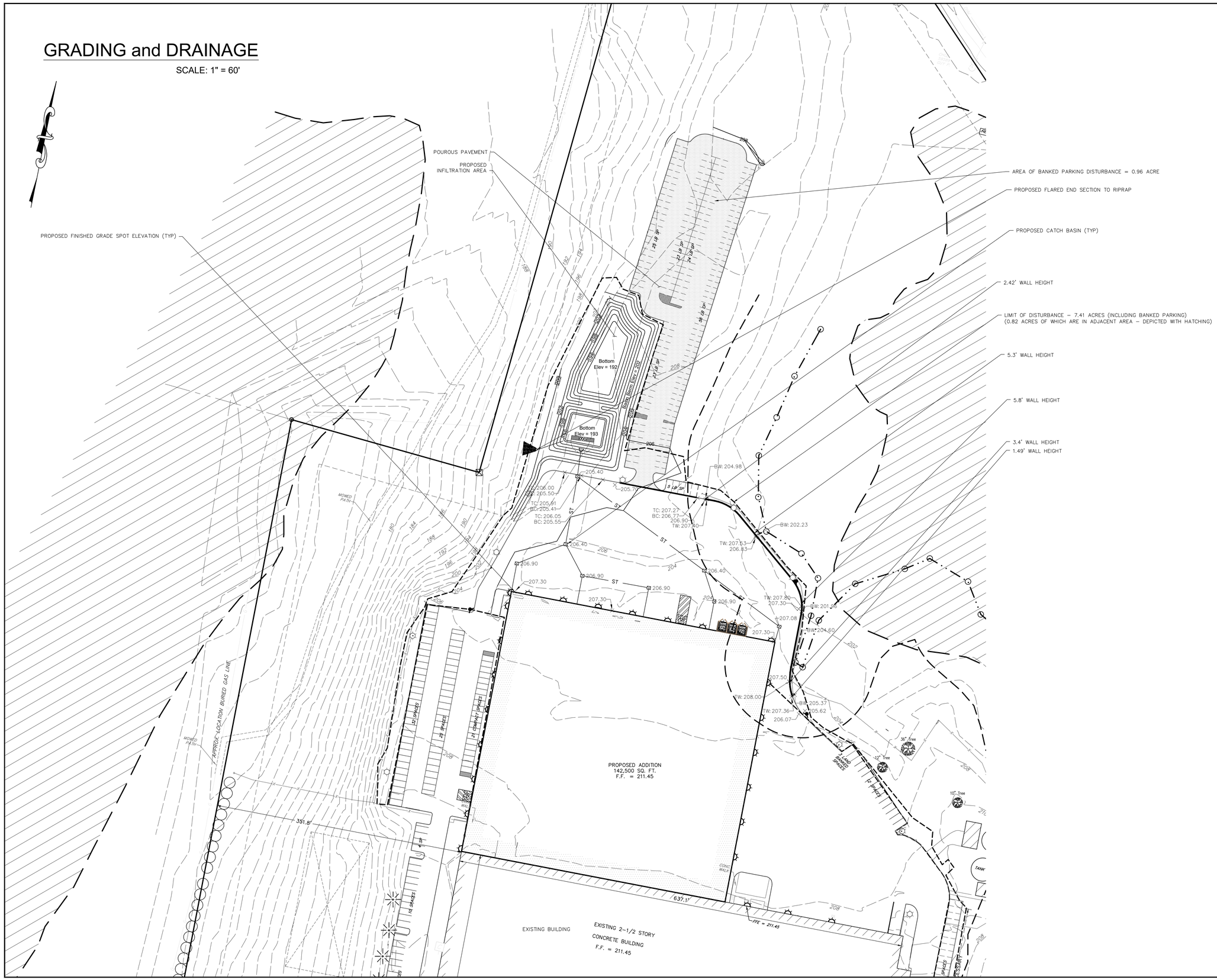
PROJECT
Hudson Valley Lighting
Town of Wappinger — Dutchess County, New York

DRAWING
Erosion & Sediment Control Plan

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	ESC.1
DATE	CHECKED BY	6 of 14
03-09-2020	MAD	

GRADING and DRAINAGE

SCALE: 1" = 60'



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PROJECT

Hudson Valley Lighting

Town of Wappinger — Dutchess County, New York

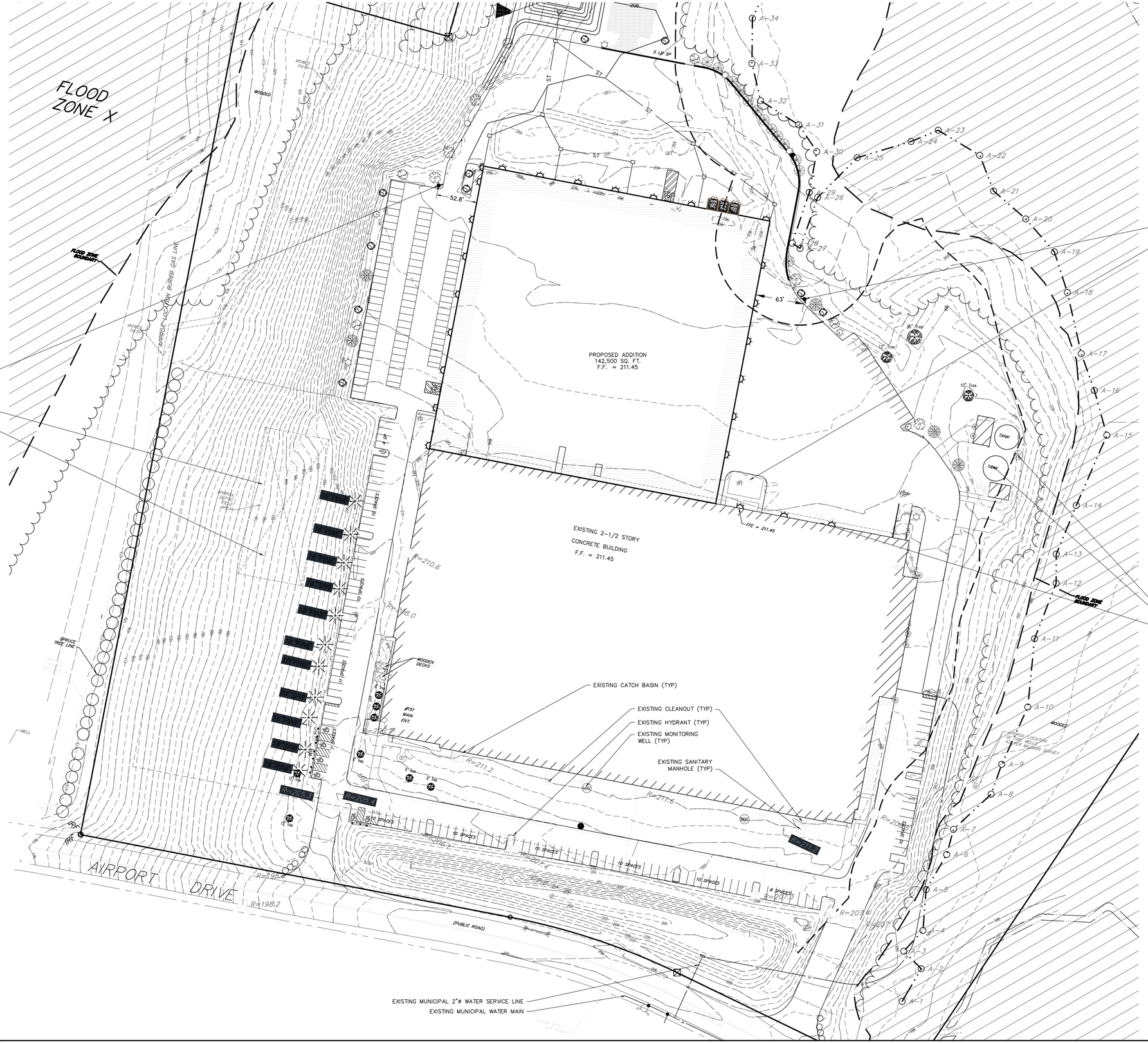
DRAWING

Grading and Drainage Plan

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	GD.1
DATE 03-09-2020	CHECKED BY MAD	5 of 14

UTILITY PLAN

SCALE: 1" = 60'



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PROJECT

Hudson Valley Lighting

Town of Wappinger — Dutchess County, New York

DRAWING

Utility Plan

SCALE	DRAWN BY	DRAWING No.
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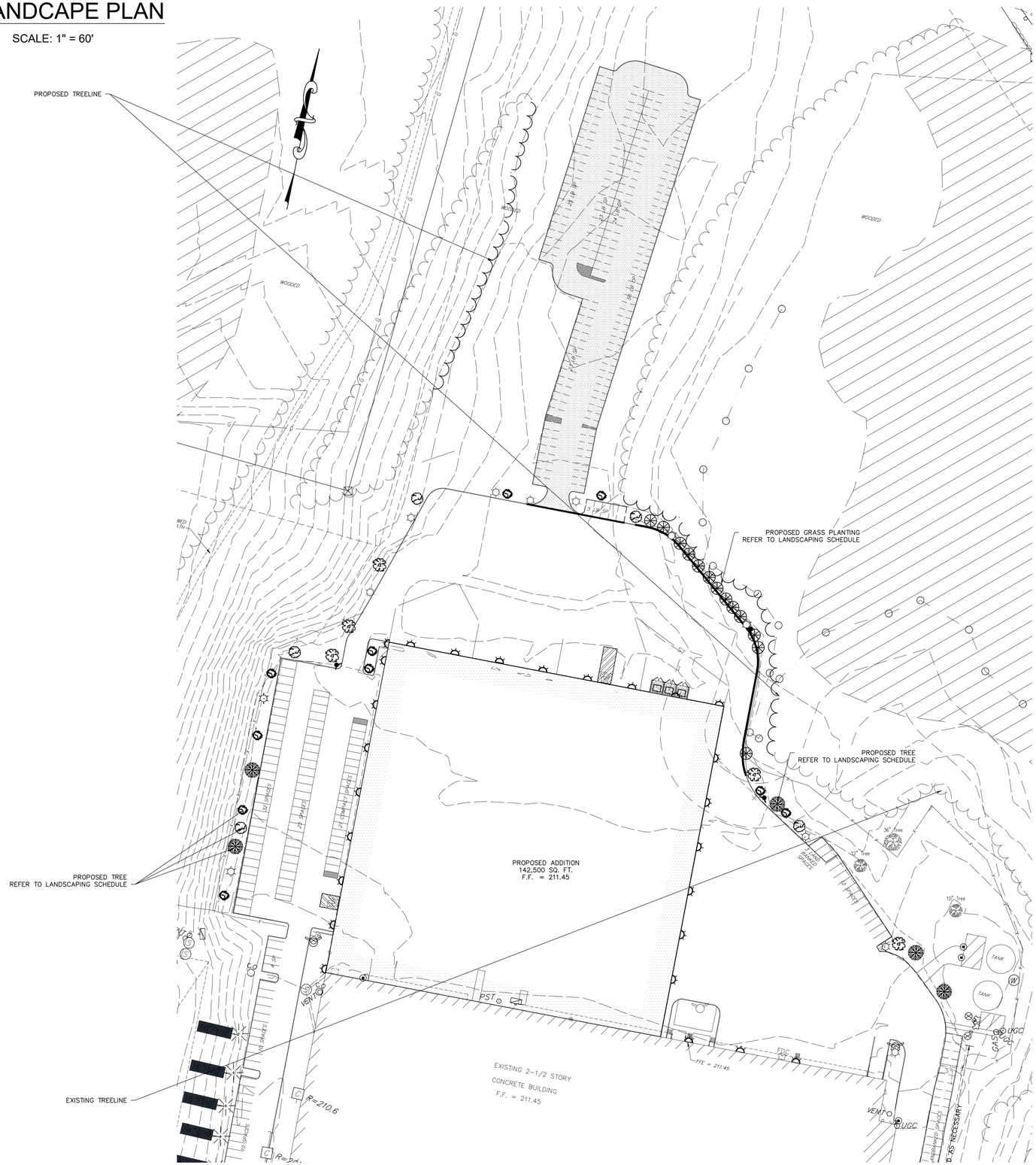
03-09-2020	MAD	

TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT INDIANA BATS.

LANDCAPE PLAN

SCALE: 1" = 60'



LANDSCAPE NOTES:

NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES

THE OWNER IS RESPONSIBLE FOR MAINTAINING THE SITE LANDSCAPING AS SHOWN ON THE APPROVED SITE PLAN THROUGHOUT THE DURATION OF USE.

THE LANDSCAPE CONTRACTOR SHALL CAREFULLY CORRELATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.

THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.

THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR . THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.

THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE. ALL LANDSCAPED AREAS MULCHED UNLESS OTHERWISE NOTED.

WARRANTY:
ALL PLANT MATERIAL (LAWNS, TREES, SHRUBS, ETC.) AND PLANTING SUPPLIES (EDGING, BARK, MULCH, ETC.) SHALL BE WARRANTED FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF COMPLETION OF THE LANDSCAPING INSTALLATION. ALL REPLACEMENT STOCK SHALL BE SUBJECT TO THE SAME WARRANTY REQUIREMENTS AS THE ORIGINAL STOCK. ANY DAMAGE DUE TO REPLACEMENT OPERATIONS SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR. AT THE END OF THE WARRANTY PERIOD, INSPECTIONS SHALL BE MADE JOINTLY BY LANDSCAPE ARCHITECT, OWNER, TENANT AND LANDSCAPE CONTRACTOR. ALL PLANT AND LAWN AREAS NOT IN A HEALTHY GROWING CONDITION SHALL BE REMOVED AND REPLACED WITH PLANTS AND TURF COVER OF A LIKE KIND AND SIZE BEFORE THE CLOSE OF THE NEXT PLANTING SEASON.

SPECIES AND VARIETY AS SPECIFIED ON THE DRAWINGS AND DELIVERED TO THE SITE SHALL BE CERTIFIED TRUE TO THEIR GENUS, SPECIES AND VARIETY AND AS DEFINED WITHIN THE CURRENT EDITION OF INTERNATIONAL CODE OF NOMENCLATURE FOR CULTIVATED PLANTS, ISSUED BY THE INTERNATIONAL UNION OF BIOLOGICAL SCIENCES. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT TENANT'S LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.

PLANTING STOCK SHALL BE WELL-BRANCHED AND WELL-FORMED, SOUND, VIGOROUS, HEALTHY, FREE FROM DISEASE, SUN-SCALD, WINDBURN, ABRASION, AND HARMFUL INSECTS AND INSECT EGGS; AND SHALL HAVE HEALTHY, NORMAL, UNBROKEN ROOT SYSTEMS. DECIDUOUS TREES AND SHRUBS SHALL BE SYMMETRICALLY DEVELOPED, OF UNIFORM HABIT OF GROWTH, WITH STRAIGHT TRUNKS AR STEMS, AND FREE FROM OBJECTIONABLE DISFIGUREMENTS. EVERGREEN TREES AND SHRUBS SHALL HAVE WELL-DEVELOPED SYMMETRICAL TOPS WITH TYPICAL SPREAD OF BRANCHES FOR EACH PARTICULAR SPECIES OR VARIETY. ONLY VINES AND GROUND COVER PLANTS WELL ESTABLISHED SHALL BE USED. PLANTS BUDDING INTO LEAF OR HAVING SOFT GROWTH SHALL BE SPRAYED WITH AND ANTI-DESICCANT AT THE NURSERY BEFORE DIGGING.

ALL STOCK SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN STOCK. BARE ROOT STOCK OF ANY KIND IS UNACCEPTABLE.

SEED:

EXPOSED SLOPES AND ALL GRADED AREAS SHALL BE SEEDED WITH THE FOLLOWING GRASS SEED MIX IMMEDIATELY UPON COMPLETION OF ITS CONSTRUCTION, OR IF PLANNED TO BE LEFT UNDISTURBED FOR MORE THAN 14 DAYS. GRASS SEED MIX TO BE APPLIED AT A RATE OF 50 POUNDS PER ACRE IN THE FOLLOWING PROPORTIONS:

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

GRASS SEED MIX MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, SECTION 610-3.02, METHOD No. 1.

SEEDED AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS PER ACRE, OR 90 LBS. PER 1,000 SQUARE FEET, SUCH THAT IT FORMS A CONTINUOUS BLANKET.

SEED SHALL BE A BLEND OF CERTIFIED LAWN GRASS AND/OR GROUND COVER PLANT SEEDS COMMON TO THE SITE LOCATION.

PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH ESTABLISHED TOLERANCES FOR GERMINATION AND PURITY IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE LATEST EDITION OF THE FEDERAL SEED ACT. SEED SHALL BE MIXED BY THE DEALER AND SHALL BE DELIVERED TO THE SITE IN SEALED CONTAINERS WHICH SHALL BEAR THE DEALER'S GUARANTEED ANALYSIS.

MULCHES FOR PLANTINGS:
SHREDDED BARK MULCH, MEDIUM SIZE, FROM HARDWOOD TREES. NO PIECES OVER TWO INCHES (2") IN GREATEST DIMENSION. FREE FROM SAWDUST, STONES, DEBRIS, AND DELETERIOUS MATERIALS.

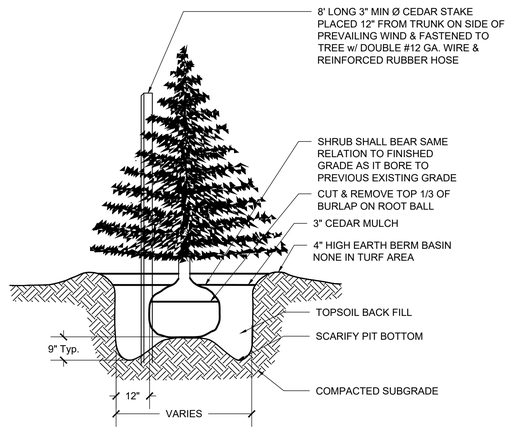
ALL VEGETATION SHOWN ON THIS PLAN SHALL BE MAINTAINED IN A HEALTHY AND VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF THE PROPOSED USE. ALL VEGETATION NOT SO MAINTAINED SHALL BE REPLACED WITH NEW VEGETATION AT THE BEGINNING OF THE NEXT GROWING SEASON.
ALL AREAS OF SITE NOT OCCUPIED BY BUILDINGS OR PAVEMENT AND NOT SPECIFIED AS BEING PLANTED WITH TREES, SHRUBS OR GROUND COVER SHALL BE SEEDED.

NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.

LONGTERM PLANTING MAINTENANCE NOTES
THE OWNER/OPERATOR SHALL BE RESPONSIBLE FOR THE LONG-TERM MONITORING AND MAINTENANCE OF THE PLANTINGS WITHIN THE THE SITE IN PERPETUITY AND TO THE SATISFACTION OF THE VILLAGE.

THE COVERAGE OF THE SEEDED AREAS SHALL BE UNIFORM WITH NO BARE AREAS LARGER THAN ONE-HALF SQUARE FEET.

THE ACCEPTABLE DENSITY OF COVERAGE SHALL BE A MINIMUM OF EIGHTY-FIVE PERCENT (85%) OF LANDSCAPE QUANTITY PLANTS SHOWN ON THE APPROVED PLANTING PLAN. IF LESS THAN EIGHTY-FIVE (85%) OF A PARTICULAR PLANT SPECIES SURVIVES, REPLACEMENT WITH SAME AND/OR ALTERNATIVE PLANT SPECIES ACCEPTABLE TO THE TOWN PLANNING BOARD SHALL OCCUR, SERVING THE INTENDED FUNCTION OF THE ORIGINALLY PROPOSED PLANTINGS.



3 EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

LANDSCAPING SCHEDULE

SYMBOL	QTY.	COMMON NAME	SCIENTIFIC NAME	SIZING	NOTES
	5	Eastern White Pine	Pinus Strobus	Minimum of 8' height, 30' Spacing	Nursery Grown, Plant in Spring of Year
	5	Red Maple	Acre Rubrum	6'-8' height, 50' spacing	Nursery Grown, Plant in Spring of Year
	10	Winterberry	Ilex Verticillata	15"-18" height, 5' spacing	Nursery Grown, Plant in Spring of Year
	5	Silky Dogwood	Miscanthus Zebrinus	15"-18" height, 5' spacing	Nursery Grown, Plant in Spring of Year
	13	Dwarf Hamlen Grass	Pennisetum Alopercuroids	#2 Can	Nursery Grown, Plant in Spring of Year

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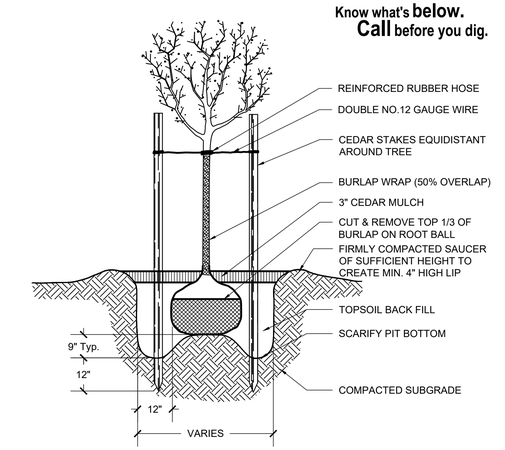
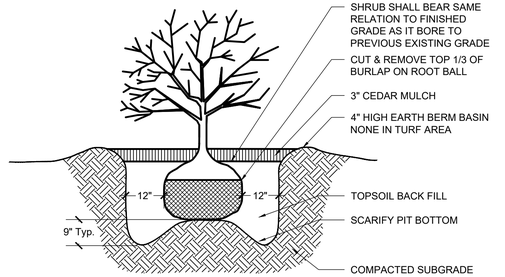


1 DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



NOTES:
1. IF CONTAINERS ARE USED CAREFULLY REMOVE TOP 1/3 OF CONTAINER (IF CONTAINER IS NON-ORGANIC, REMOVE COMPLETELY). CUT VARIOUS SLITS IN ORGANIC CONTAINER TO FACILITATE ROOT PENETRATION (OR REMOVE CONTAINER BOTTOM).
2. DO NOT ALLOW ANY PORTION OF CONTAINER TO REMAIN EXPOSED.
3. WATER THOROUGHLY SUBSEQUENT TO INSTALLATION.

2 SHRUB PLANTING DETAIL

NOT TO SCALE

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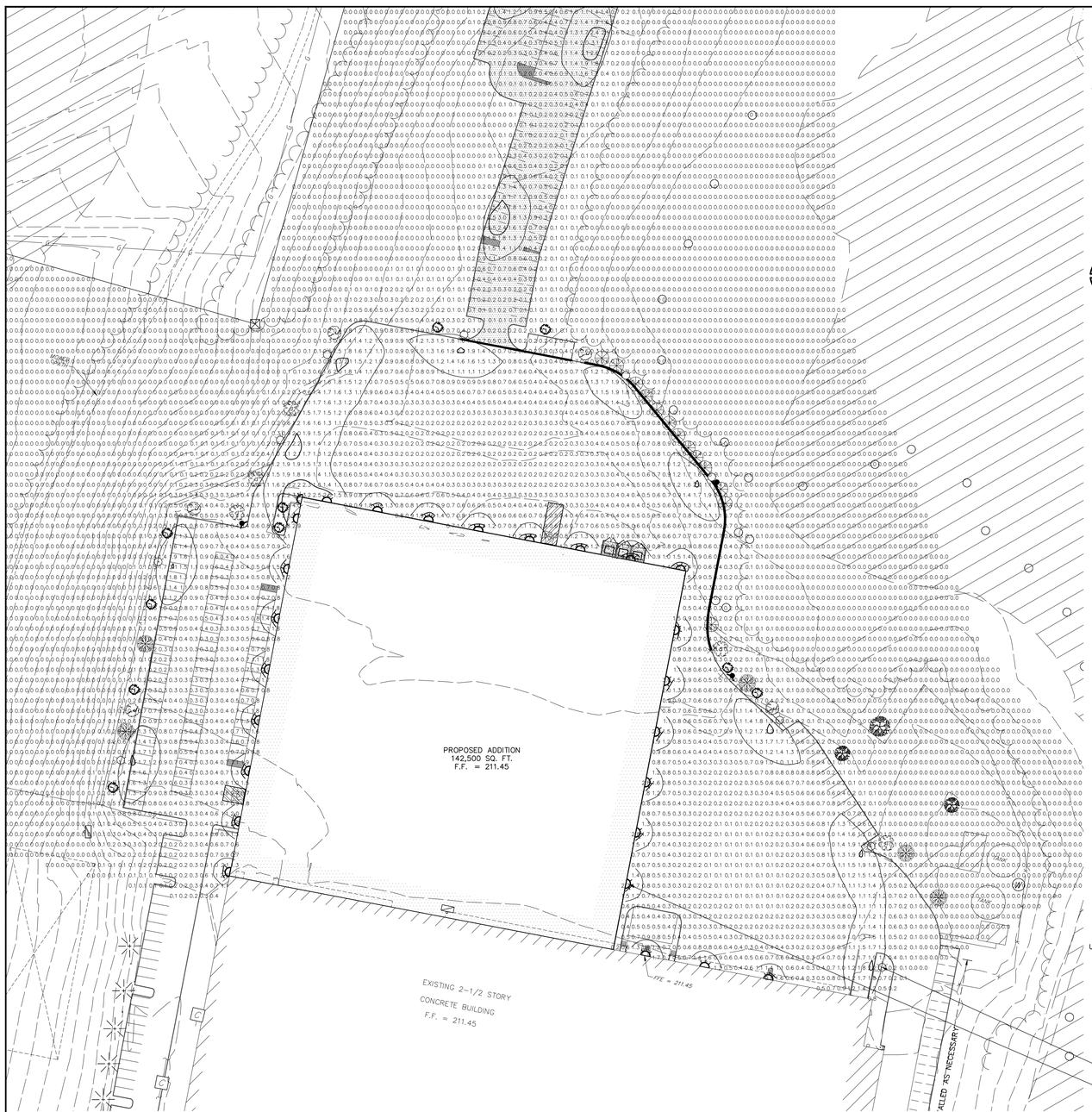
PROJECT
Hudson Valley Lighting
Town of Wappinger — Dutchess County, New York

DRAWING
Landscape Plan

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	LSP.1
DATE: 03-09-2020	CHECKED BY: MAD	8 of 14

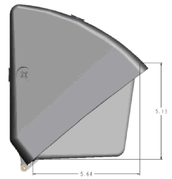
LIGHTING PLAN

SCALE: 1" = 60'



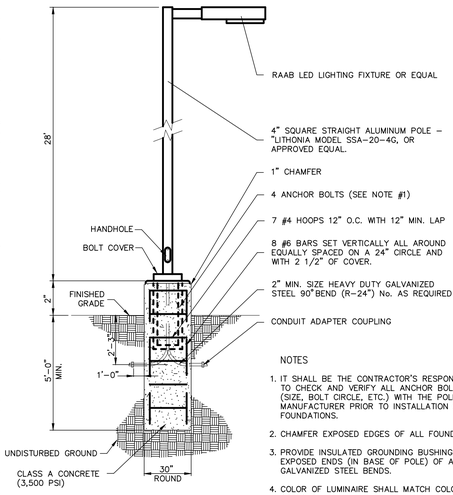
2 ALED3T78Y RAAB AREA LUMINAIRE – MOUNTING HEIGHT 25'

LP.1 SCALE: NOT TO SCALE



3 WALLPACK LIGHTING DETAIL – MOUNTING HEIGHT 25'

LP.1 SCALE: N.T.S.



NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE POLE MANUFACTURER PRIOR TO INSTALLATION OF THE FOUNDATIONS.
2. CHAMFER EXPOSED EDGES OF ALL FOUNDATIONS.
3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED ENDS (IN BASE OF POLE) OF ALL GALVANIZED STEEL BENDS.
4. COLOR OF LUMINAIRE SHALL MATCH COLOR OF POLE.

1 LIGHT POLE DETAIL

LP.1 SCALE: N.T.S.

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	QUANTITY	DEFAULT ELEVATION	IES FILE
Pole		(6) SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS), 2 LEDSTILTED 63-DEGREES FROM VERTICAL BASE-UP POS	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND TAPERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTEDMETAL LENS FRAME.	PREMIUM EFFICIENCY	POLE	RAB LIGHTING INC., ALED3T78Y – RWLED3T78Y – RWLED3T78SFY – WPLED3T78Y (TYPE III)	120V 1P 2W	14	25'-0"	RAB02125
WP		(78) SEVENTY EIGHT WHITE LIGHT EMITTING DIODES (LEDS).	COMPACT WALLPACK WITH VANDAL RESISTANT PRISMATIC ACRYLICREFRACTOR.	ELECTRONIC	WALL	RAB LIGHTING INC., WP1LED-39L-730	120V 1P 2W	26	25'-0"	RAB04834

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DRAWING
Lighting Plan

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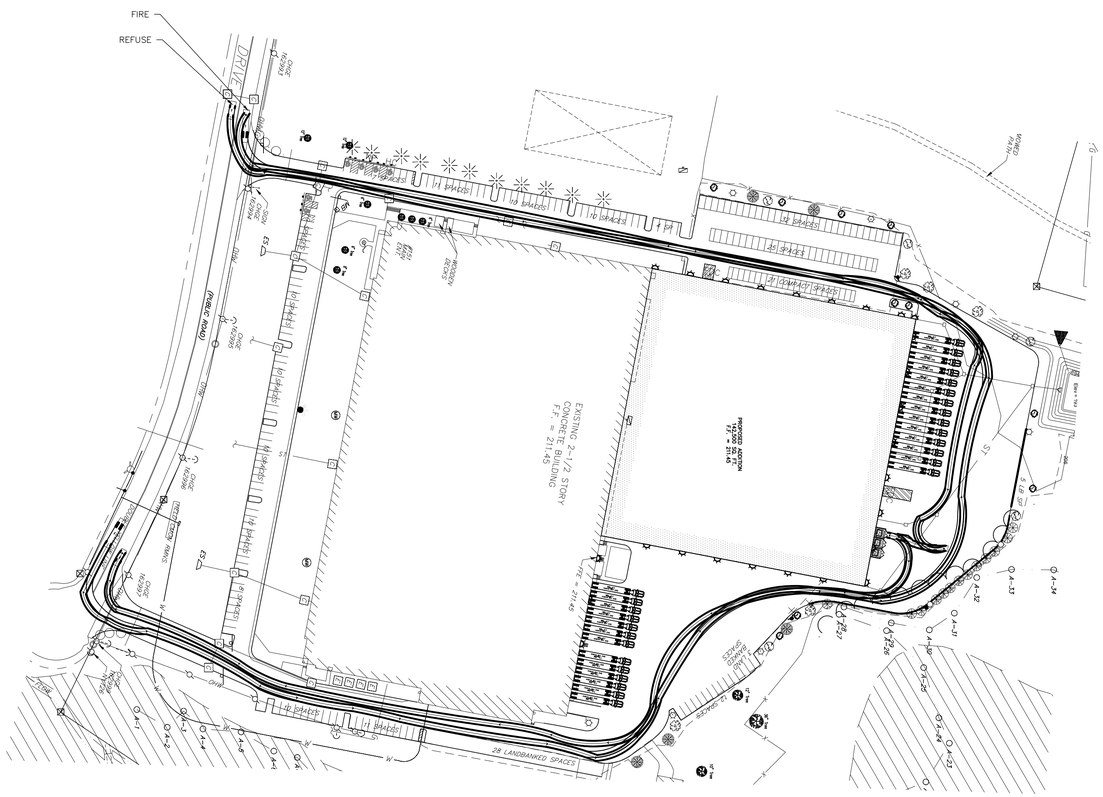
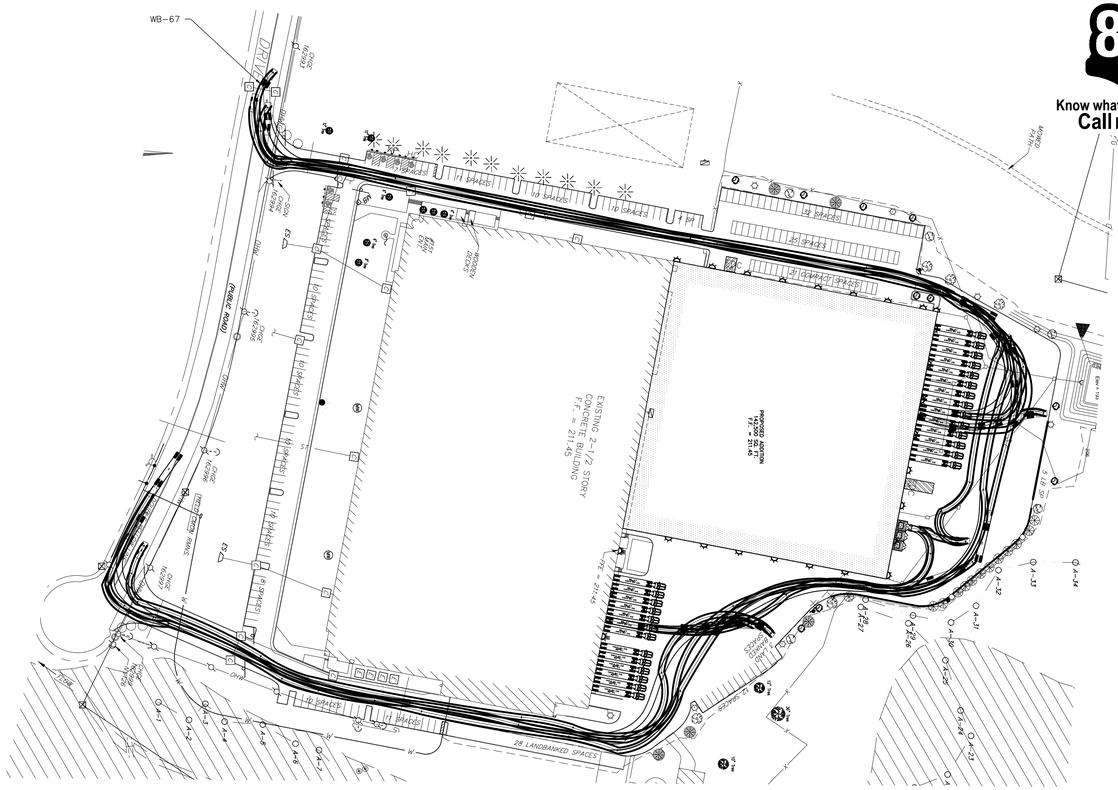
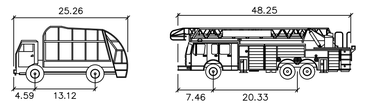
VEHICLE MANEUVERING PLAN

SCALE: 1" = 100'





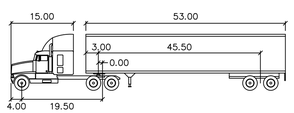


REFUSE

	feet
Width	: 7.87
Track	: 7.87
Lock to Lock Time	: 6.0
Steering Angle	: 28.1

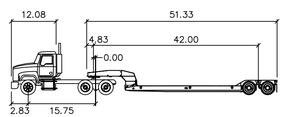
FIRE

	feet
Width	: 8.33
Track	: 8.29
Lock to Lock Time	: 6.0
Steering Angle	: 53.0



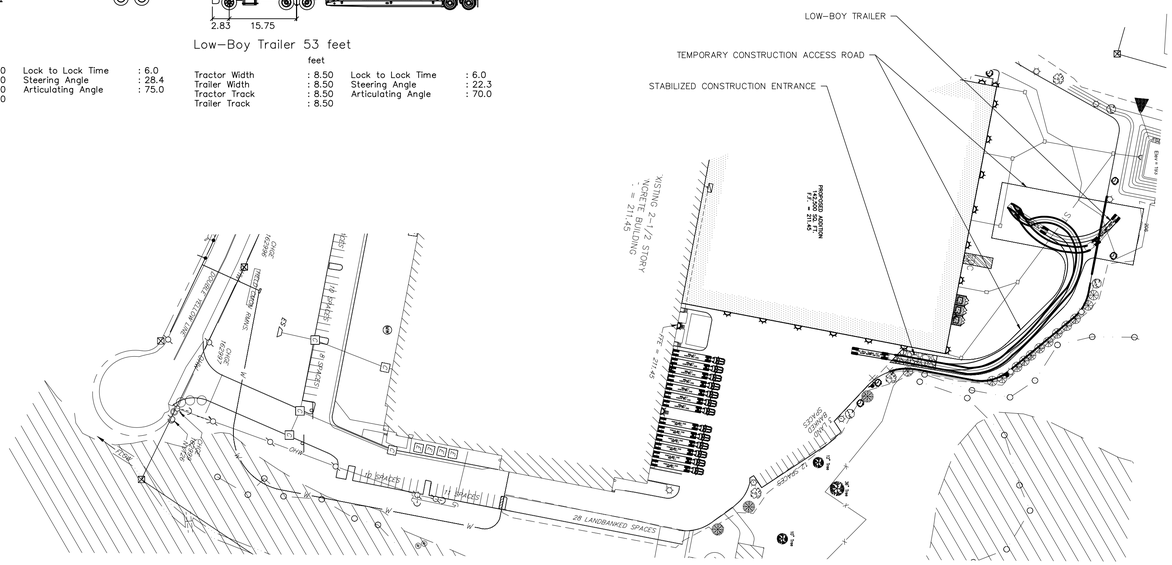
WB-67

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		



Low-Boy Trailer 53 feet

	feet		
Tractor Width	: 8.50	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 22.3
Tractor Track	: 8.50	Articulating Angle	: 70.0
Trailer Track	: 8.50		



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	Mark A. Day, PE
March 12, 2021	
February 16, 2021	
January 15, 2021	
January 6, 2021	
November 20, 2020	
Revisions August 03, 2020	
Project No. 2020:077	License No. 069646

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

DAY | STOKOSA ENGINEERING P.C.
3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

PROJECT
Hudson Valley Lighting
Town of Wappinger — Dutchess County, New York

DRAWING
Vehicle Maneuvering Plan

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	VM.1
DATE	CHECKED BY	10 of 14
03-09-2020	MAD	

SEEDING NOTES:

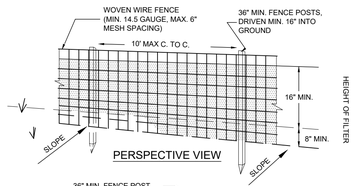
DISTURBED AREAS SHALL BE SEEDED WITH THE FOLLOWING GRASS SEED MIX IMMEDIATELY UPON COMPLETION OF TREE FELLING. GRASS SEED MIX TO BE APPLIED AT A RATE OF 50 POUNDS PER ACRE IN THE FOLLOWING PROPORTIONS:

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

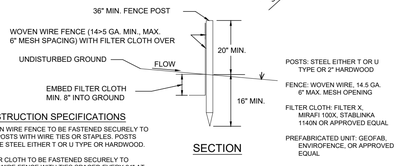
GRASS SEED MIX MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, SECTION 610-3.02, METHOD No. 1.

SEEDED AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS PER ACRE, OR 90 LBS. PER 1,000 SQUARE FEET, SUCH THAT IT FORMS A CONTINUOUS BLANKET.

SEED SHALL BE A BLEND OF CERTIFIED LAWN GRASS AND/OR GROUND COVER PLANT SEEDS COMMON TO THE SITE LOCATION.
PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH ESTABLISHED TOLERANCES FOR GERMINATION AND PURITY IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE LATEST EDITION OF THE FEDERAL SEED ACT, SEED SHALL BE MIXED BY THE DEALER AND SHALL BE DELIVERED TO THE SITE IN SEALED CONTAINERS WHICH SHALL BEAR THE DEALER'S GUARANTEED ANALYSIS.



PERSPECTIVE VIEW



SECTION

CONSTRUCTION SPECIFICATIONS

1) WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER T OR U TYPE OR HARDWOOD.

2) FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.

3) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

4) PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

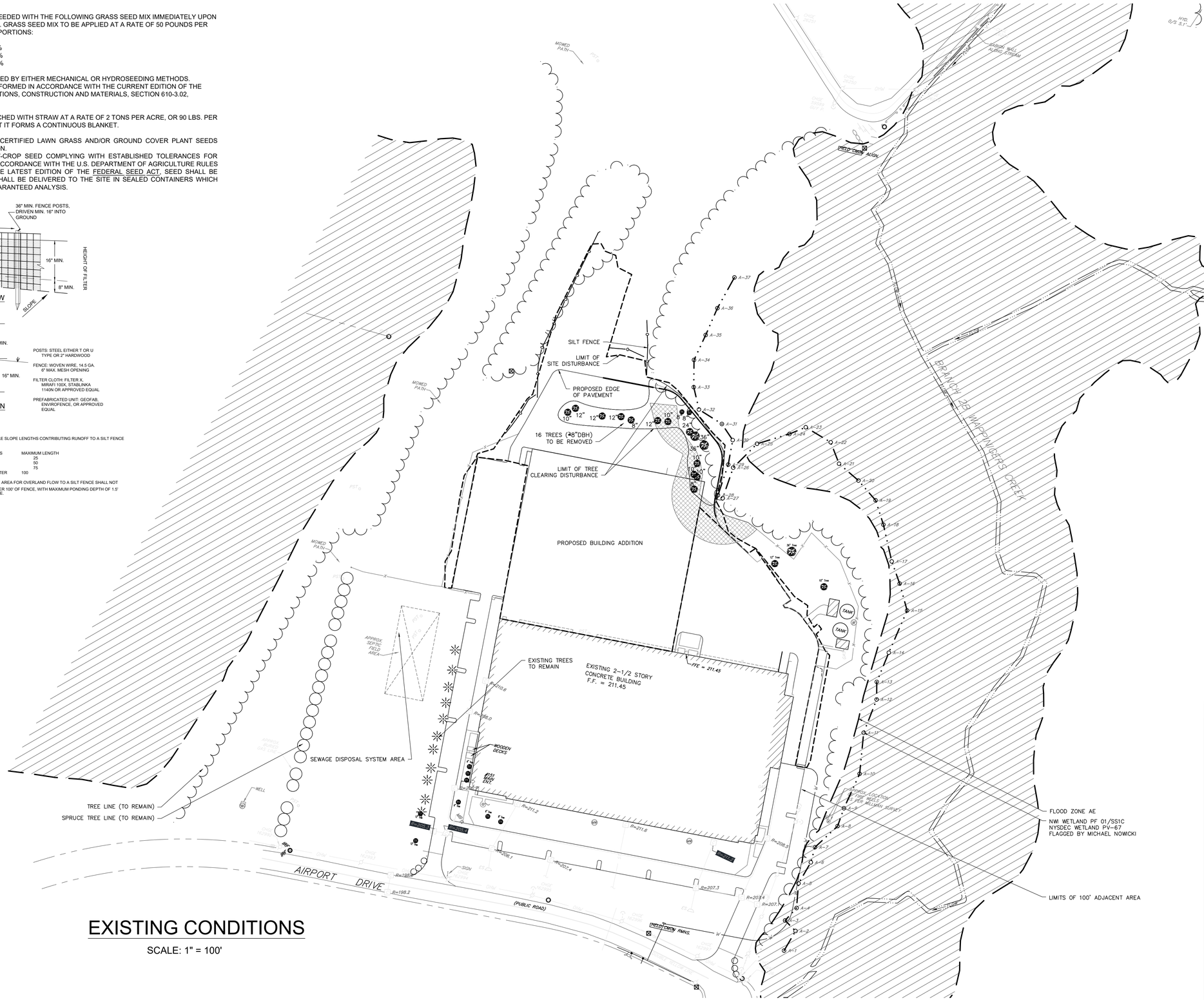
5) MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

1. MAX. ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE IN A SLOPE ARE:

SLOPE STEEPNESS	MAXIMUM LENGTH
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

2. MAX. DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ½ ACRE PER 100' OF FENCE, WITH MAXIMUM PONDING DEPTH OF 1.5' BEHIND THE FENCE.

SILT FENCING DETAIL
NOT TO SCALE



EXISTING CONDITIONS

SCALE: 1" = 100'

TREE REMOVAL SHALL OCCUR BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT INDIANA BATS.

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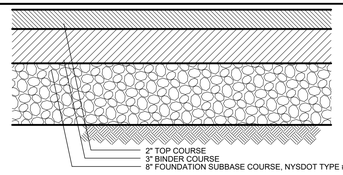
3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

PROJECT
Hudson Valley Lighting
Town of Wappinger — Dutchess County, New York

DRAWING
Tree Clearing Plan

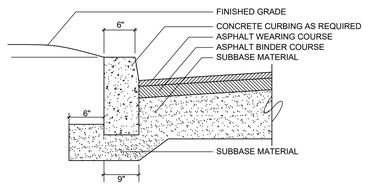
SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	TCP
DATE: 03-09-2020	CHECKED BY: MAD	11of 14



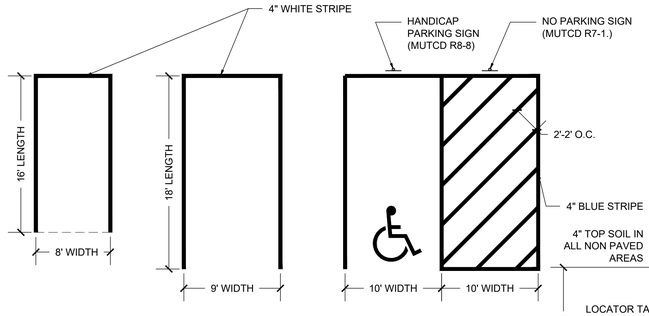
1. THICKNESS INDICATED REFER TO COMPACTED MEASURE.
2. ALL NEW PAVEMENT SECTIONS TO CONFORM TO THE ABOVE CROSS-SECTION.

1 INTERNAL PAVEMENT SECTION

NOT TO SCALE



INTERNAL CONCRETE CURBING



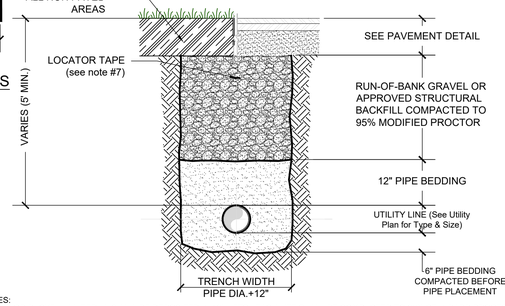
COMPACT STANDARD HANDICAP PARKING SPACES

SIGN SCHEDULE

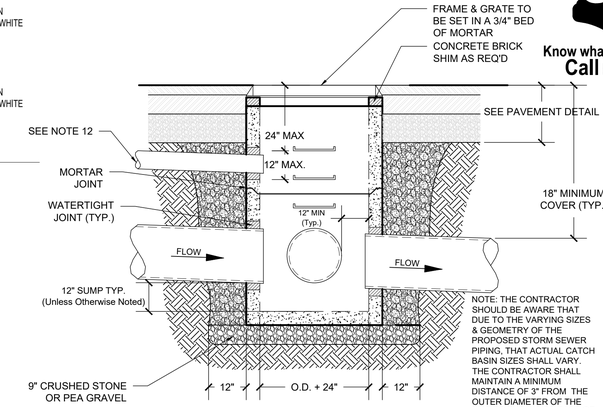
DWG. SYMBOL		
HC	RESERVED PARKING	SIGN SIZE = 12"x18" MARGIN = 3/8" BORDER = 5/8" SYMBOL COLOR = WHITE ON BLUE BACKGROUND COLOR = WHITE TEXT COLOR =GREEN
	MUTCD R7-8	
NP	No Parking ANY TIME	SIGN SIZE = 18"x24" MARGIN = 3/8" BORDER = 5/8" SYMBOL COLOR = RED BACKGROUND COLOR = WHITE
	MUTCD R7-1	
	Employee Entrance Only	SIGN SIZE = 18"x24" MARGIN = 3/8" BORDER = 5/8" SYMBOL COLOR = GREEN BACKGROUND COLOR = WHITE
	Construction Entrance Only	SIGN SIZE = 18"x24" MARGIN = 3/8" BORDER = 5/8" SYMBOL COLOR = GREEN BACKGROUND COLOR = WHITE

4 PARKING SIGN DETAIL

NOT TO SCALE



NOTES:
1. FILL OR BACKFILL MATERIAL SHALL BE DEPOSITED IN 12" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% STANDARD PROCTOR PRIOR TO THE PLACEMENT OF THE NEXT LIFT.
2. BACKFILLING AROUND PIPES SHALL BE DONE UNIFORMLY ON EACH SIDE OF THE PIPE.BACKFILL MATERIAL SHALL BE 2" MINUS GRADATION.
3. ALL SITE UTILITIES ARE TO BE INSTALLED BY A QUALIFIED CONTRACTOR & INSPECTED BY THE DESIGN ENGINEER PRIOR TO BACKFILLING.
4. THOROUGHLY CLEAN ALL PIPES PRIOR TO ACCEPTANCE TESTING.
5. IN THE EVENT THAT THE CONDUIT IS BEING INSTALLED IN WET CONDITIONS, THE CONTRACTOR SHALL LINE THE TRENCH WITH FILTER FABRIC & BED THE PIPE IN 3/4" CRUSHED STONE INSIDE THE FILTER FABRIC AT THE DISCRETION OF THE SUPERINTENDENT OF SEWERS.
6. BACKFILL MATERIAL SHALL BE FREE FROM ORGANICS, BOULDERS, FROZEN SOILS OR OTHER DELETERIOUS MATERIAL.
7. THE CONTRACTOR SHALL PROVIDE A METAL WARNING TAPE 2' BELOW FINISHED GRADE. THE TAPE SHALL BE BLUE WITH "WARNING WATER LINE BELOW" WRITTEN IN BLACK LETTERING ALONG ITS ENTIRE LENGTH.



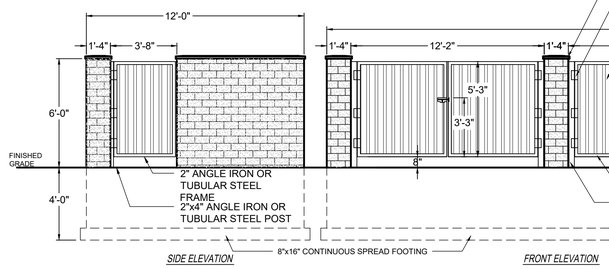
NOTE: THE CONTRACTOR SHOULD BE AWARE THAT DUE TO THE VARYING SIZES & GEOMETRY OF THE PROPOSED STORM SEWER PIPING, THAT ACTUAL CATCH BASIN SIZES SHALL VARY. THE CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE OF 3" FROM THE OUTER DIAMETER OF THE PIPE TO THE INSIDE FACE OF THE CATCH BASIN WALL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ACTUAL CATCH BASIN SIZES.

Know what's below. Call before you dig.

CONSTRUCTION NOTES:
1. THE TOP OF THE PIPES TO BE SET AT EQUAL ELEVATIONS WHEN INLET PIPE IS SMALLER THAN OUTLET PIPE.
2. POLYPROPYLENE STEEL REINFORCED PLASTIC STEPS AS SUPPLIED BY M.A. INDUSTRIES, OR EQUAL, TO BE SET EVERY 12" TO BOTTOM OF CATCH BASIN.
3. FRAME AND GRATE TO MEET OR EXCEED H-20 LOADING.
4. ALL PIPES SHALL BE INSTALLED FLUSH WITH THE INSIDE WALL OF THE CATCH BASIN AND GROUTED IN PLACE ON BOTH THE INSIDE AND OUTSIDE FACE OF THE BASIN.
5. BRICK FRAME AND GRATE TO GRADE MATCH BOTH CROWN OF ROAD AND SLOPE OF ROAD. A MAXIMUM OF TWO TIERS OF CONCRETE BRICKS OR ONE 6" SOLID CONCRETE BLOCK SHALL BE PERMITTED. RISERS SHALL BE PARGED BOTH INSIDE AND OUTSIDE.
6. BASE AND RISER SECTIONS SHALL BE INTEGRALLY CAST.
7. INSIDE DIMENSIONS SHALL REMAIN CONSTANT FROM TOP TO BOTTOM AND SHALL MATCH THE FRAME OPENING OF THE GRATE.
8. THE BASINS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS AND SHALL HAVE A MIN. 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
9. PROVIDE PROPER ANCHORING IN CASES OF HIGH GROUNDWATER TO PREVENT FLOATATION.
10. ALL BASINS WITH A TOTAL DEPTH OF GREATER THAN 8'-0" SHALL HAVE A MIN. WALL THICKNESS OF 8".
11. LADDER RUNGS TO BE PROVIDED FOR CATCH BASINS IN EXCESS OF 4'-0" TOTAL DEPTH (TOP TO BOTTOM OF SUMP).
12. ROOF LEADERS OR FOOTING DRAINS TO CONNECT TO STORM SEWER SYSTEM WHENEVER POSSIBLE.
13. SHOP DRAWINGS TO REFLECT KNOCKOUTS OR OPENING SIZES INDICATIVE OF OUTSIDE PIPE DIAMETER FOR VARIOUS PIPE SIZES AND LOCATIONS WHERE PIPE(S) DO NOT MEET BASIN AT RIGHT ANGLES.

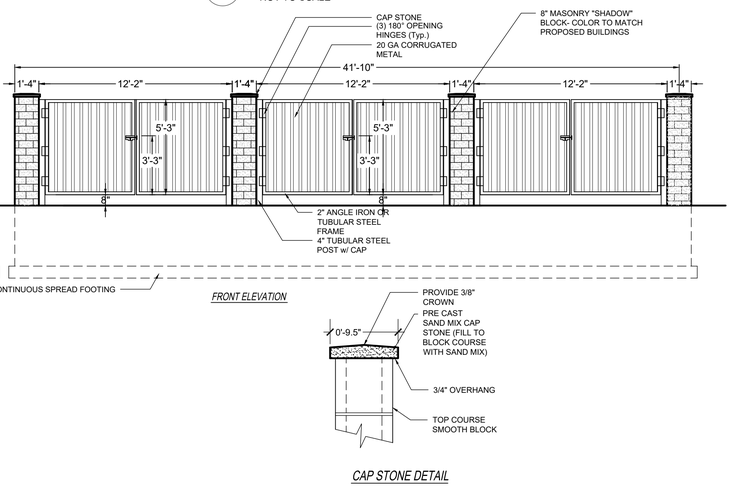
2 CURB DETAIL

NOT TO SCALE



3 PARKING STALL DETAIL

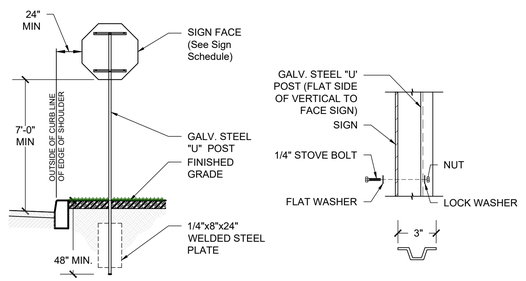
NOT TO SCALE



CAP STONE DETAIL

10 UTILITY TRENCH DETAIL

NOT TO SCALE

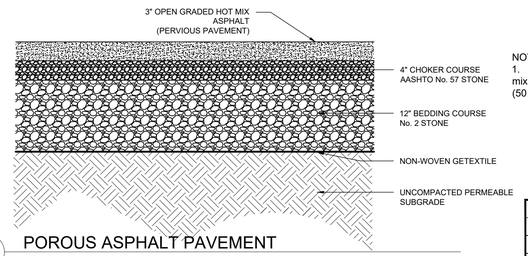


6 TYPICAL SIGN DETAIL

NOT TO SCALE

5 PRE CAST CONCRETE CATCH BASIN

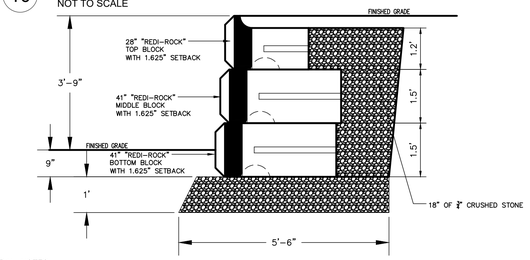
NOT TO SCALE



NOTES
1. Porous Asphalt Pavement shall be a Bituminous mix 1/2" Nominal Maximum Aggregate Size >18% Air Voids (50 gyrations) Driandown < 0.3%

10 POROUS ASPHALT PAVEMENT

NOT TO SCALE



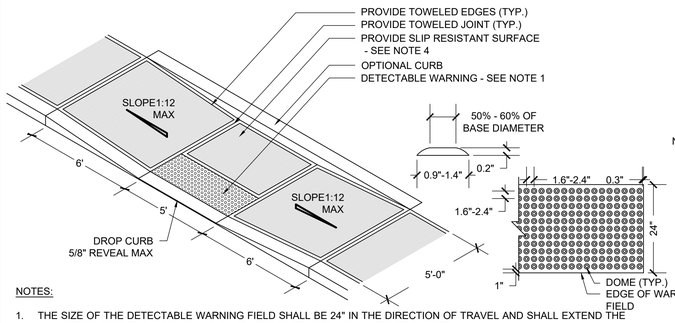
GENERAL NOTES:
1. THE CONTRACTOR SHALL EXCAVATE TO THE LINES & GRADES SHOWN HEREON WHILE NOT DISTURBING THE EXISTING EMBANKMENT. THE EXISTING WOODEN RETAINING WALL SHALL BE REMOVED AND DISCARDED IN AN APPROPRIATE LANDFILL.
2. UNSUITABLE SOILS IN THE FOUNDATION SHALL BE REMOVED AND REPLACED WITH ¾" CRUSHED STONE.
3. THE REDI-ROCK WALL UNITS SHALL HAVE A MIN. 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
4. THE RETAINED BACKFILL SHALL BE AS FOLLOWS:

SIEVE SIZE	% PASSING
2"	100
¾"	100–75
NO. 4	20–100
NO. 200	0–35

5. THE BASE STONE SHALL BE A 12" THICK BED OF ¾" CRUSHED STONE. THE BASE STONE SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698).
6. THE FIRST COURSE OF BOTTOM BLOCK SHALL BE PLACED ON THE STONE BASE AND CHECKED FOR LEVEL AND ALIGNMENT PRIOR TO INSTALLING SUBSEQUENT LAYERS OF BLOCK.
7. SWEEP ALL EXCESS MATERIAL FROM THE TOP OF THE BLOCK PRIOR TO INSTALLING THE NEXT LAYER OF BLOCK.
8. ENSURE THAT EACH COURSE IS COMPLETELY INSTALLED, BACKFILLED AND COMPACTED PRIOR TO INSTALLING SUBSEQUENT LAYERS OF BLOCK.
9. BACKFILL SHALL BE PLACED WITH A MAXIMUM DEPTH OF 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698).
10. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITH 3' OF THE BACK SURFACE OF THE CONCRETE BLOCK.

7 REFUSE ENCLOSURE DETAIL

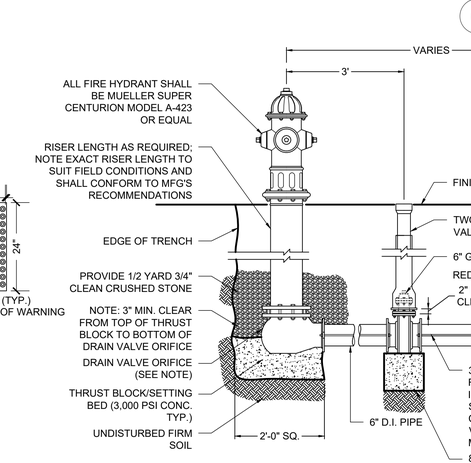
NOT TO SCALE



NOTES:
1. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUSIVE OF SIDE FLARES.
2. THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP LANDING OR CURB RAMP AND THE STREET.
3. WHERE DOMES ARE ARRAYED RADIALLY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET.
4. THE SURFACE OS ALL CURB RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT, A COARSE BROOM FINISH RUNNING PERPENDICULAR TO THE SLOPE IS RECOMMENDED ON CONCRETE RAMP SURFACE, EXCLUSIVE OF THE DETECTABLE WARNING FIELDS.
5. ALL DETAILS, NOTES AND SPECIFICATIONS NOTED ON THE " CAST-IN=PLACE CONCRETE SIDEWALK" DETAILS SHALL APPLY UNLESS OTHERWISE NOTED

8 ADA MID-BLOCK CURB RAMP DETAIL

NOT TO SCALE



NOTES:
1. HYDRANT SHALL BE DRY-BARREL HYDRANT, TYPE MUELLER SUPER CENTURION, IN ACCORDANCE WITH AWWA C502. HYDRANTS SHALL HAVE A MAIN VALVE SIZE OPENING OF FIVE INCHES NOMINAL, ONE FOUR-AND-ONW-HALF INCH NST PUMPER NOZZLE, TWO TWO-AND-ONE-HALD-INCH NST HOSE NOZZLES, A ONE-AND-ONE-HALF-INCH PENTAGON OPERATING NUT AND A SIX-INCH MECHANICAL JOINT INLET SHOW CONNECTION WITH ACCESSORIES. THE HYDRANT DIRECTION OF OPENING SHALL BE LEFT (COUNTERCLOCKWISE).
2. ALL TEES, VALVES AND FITTING TO INCLUDE RESTRAINT IN THE FORM OF MEGA-LUG RETAINER GLANDS AND RODS.

9 FIRE HYDRANT INSTALLATION DETAILS

NOT TO SCALE

11 RETAINING WALL DETAIL

NOT TO SCALE

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STATE OF NEW YORK · MARK A. DAY · 069846 · LICENSED PROFESSIONAL ENGINEER

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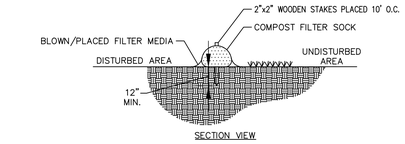
PROJECT
Hudson Valley Lighting
Town of Wappinger Dutchess County, New York

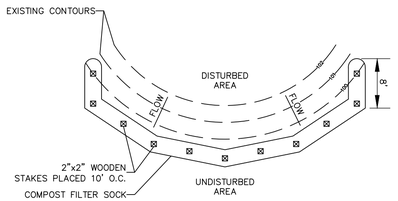
DRAWING
Partial Site Plan

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	D.1
DATE	CHECKED BY	12of 14
03-09-2020	MAD	

SYMBOL



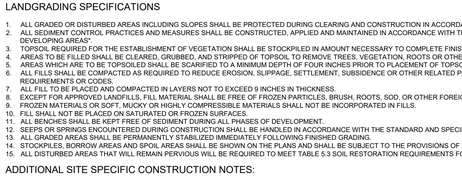
SECTION VIEW



PLAN VIEW

COMPOST FILTER SOCK

NOT TO SCALE



CROSS SECTION A-A

OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP INPLACE OF THE EMBEDDED FILTER CLOTH.

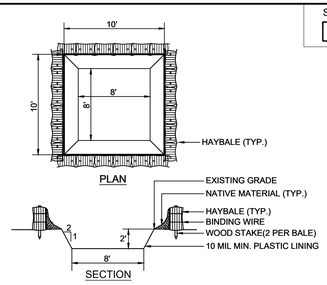
CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

MAXIMUM DRAINAGE AREA 5 ACRES

SYMBOL

CWS



CONSTRUCTION SPECIFICATIONS

1) THE LINER SHALL BE PLASTIC SHEETING WITH A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS, AND ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM. SAND BAGS, STONE, OR OTHER STRUCTURAL APPURTENANCE EXCEPT AT THE ACCESS POINT.

2) LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD. PROVIDE APPROPRIATE ACCESS WITH A GRAVEL ACCESS ROAD SLOPED DOWN TO THE STRUCTURE. SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED..

3) ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. EXCESS RAINWATER THAT HAS ACCUMULATED OVER HARDENED CONCRETE SHOULD BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP.

4) ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE..

5) DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL. ON-SITE DISPOSAL MAY BE ALLOWED IF THIS HAS BEEN APPROVED AND ACCEPTED AS PART OF THE PROJECTS SWPPP. IN THAT CASE, THE MATERIAL SHOULD BE RECYCLED AS SPECIFIED, OR BURIED AND COVERED WITH A MINIMUM OF 2 FEET OF CLEAN COMPACTED EARTHFILL THAT IS PERMANENTLY STABILIZED TO PREVENT EROSION.

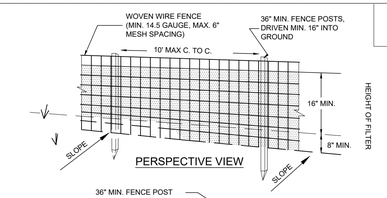
6) THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

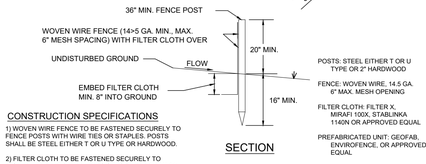
7) INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

TYPICAL CONCRETE TRUCK WASHOUT DETAIL

NOT TO SCALE

SYMBOL





CONSTRUCTION SPECIFICATIONS

1) WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER T OR U TYPE OR HARDWOOD.

2) FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.

3) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

4) PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

5) MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

1. MAX. ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE IN A SLOPE ARE:

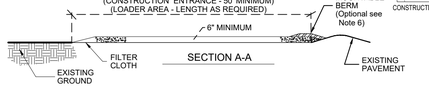
SLOPE STEEPNESS	MAXIMUM LENGTH
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

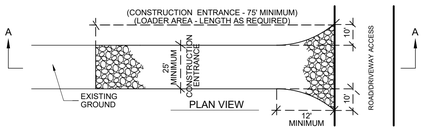
2. MAX. DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ½ ACRE PER 100' OF FENCE, WITH MAXIMUM PONDING DEPTH OF 1.5' BEHIND THE FENCE.

CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

CONSTRUCTION ENTRANCE



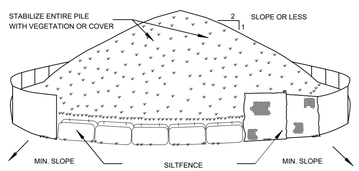


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" min. STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 25 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STOCKPILE & FENCING DETAIL

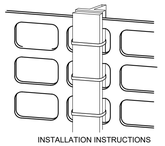
NOT TO SCALE



INSTALLATION NOTES

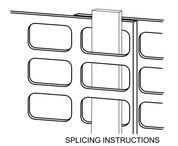
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION

TOPSOIL STOCKPILE DETAIL



INSTALLATION INSTRUCTIONS

1. T-POST SHOULD BE PLACED A MAXIMUM OF 10 FEET APART
2. VERTICAL STRAND OF FENCE SHOULD BE SANDWICHED BETWEEN FLAT SIDE OF T-POST AND 1"X2" WOOD SLAT
3. WIRE TIES OR PLASTIC CABLE TIES CAN THEN BE USED TO SECURE THE SLAT AND FENCE STRAND TO THE T-POST.



SPLICING INSTRUCTIONS

1. TO CONNECT FENCE SECTIONS, OVERLAP 2 STRAND SECTION FROM EACH END END WEAVE A 1"X2" SLAT THROUGH THE OVERLAPPED STRANDS
2. FENCE SHOULD BE TENSIONED BY HAND ONLY DO NOT USE MECHANICAL TENSIONERS.

ORANGE CONSTRUCTION FENCE DETAIL

CONSTRUCTION SEQUENCE

THE APPLICANT PROPOSES TO DISTURB LESS THAN 5.0 AC., SITE INSPECTIONS SHALL ONE TIME PER WEEK.

TOTAL APPROXIMATE AREA OF DISTURBANCE 7.41 ACRES

1. FILE NOI WITH THE N.Y.S.D.E.C., OBTAIN ALL APPROVALS FROM THE TOWN OF WAPPINGER AND INVOLVED AGENCIES. THE APPROVED SEDIMENT AND EROSION CONTROL PLAN SHALL BE FOLLOWED AS REQUIRED, NO DEVIATION IS ALLOWED WITHOUT APPROVAL FROM THE TOWN OF WAPPINGER. COORDINATE ALL ACTIONS WITH THE TOWN OF WAPPINGER.

2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ALL SITE EROSION AND SEDIMENT CONTROLS UNTIL THE SITE NOT IS FILED WITH THE NYSDEC.

3. THE PARCEL OWNER IS RESPONSIBLE FOR RETAINING A QUALIFIED INDIVIDUAL TO PERFORM ONSITE INSPECTIONS AS REQUIRED BY THE GP-0-15-002 PERMIT. SINCE DISTURBANCE IS LESS THAN 5.0 AC AT ONE TIME (AND IN TOTAL), ONE SWPPP INSPECTION PER WEEK IS REQUIRED. THE TOWN OF WAPPINGER ENGINEERING DEPARTMENT SHALL BE PROVIDED COPIES OF INSPECTIONS VIA EMAIL DELIVERY.

PHASE I (APPROXIMATE AREA OF DISTURBANCE 1.32 ACRES) –

4. PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO CONSTRUCTION WITH THE TOWN ENGINEER, CONTRACTOR, OWNER, AND SWPPP INSPECTOR FOR THE OWNER.

5. A NYSLS SHALL FIELD IDENTIFY THE LIMIT OF DISTURBANCE SURROUNDING THE SITE, STORMWATER MANAGEMENT AREAS AND BUILDING INFRASTRUCTURE POINTS AS IDENTIFIED ON THE PLAN SET.

6 CONSTRUCT SITE FROM THE EASTERN EXISTING ACCESS ON AIRPORT DRIVE-
: CLEAR AND ROUGH GRADE FOR TEMPORARY CONSTRUCTION ACCESS AS REQUIRED.
: STABILIZE SITE ACCESS BY INSTALLING GRAVEL PER TEMPORARY ACCESS ROAD AND CONSTRUCTION ACCESS DETAIL. STABILIZE ADJACENT BARE AREAS WITH VEGETATION.

7. INSTALL STORMWATER MANAGEMENT POND AND SEDIMENT TRAP FOR CONSTRUCTION OF SITE –
: CLEAR AND GRUB PROPOSED STORMWATER MANAGEMENT AREAS.
: INSTALL SILT FENCE ALONG THE LOWER SIDE OF THE PROPOSED SEDIMENT TRAP AND POND.
: EXCAVATE AREA FOR SEDIMENT TRAP AND INFILTRATION BASIN,
: TEMPORARY STABILIZATION OF THE SEDIMENT TRAP, INFILTRATION BASIN AND ADJACENT DIVERSIONS SHALL BE PREFORMED.

PHASE II (APPROXIMATE AREA OF DISTURBANCE 3.27 ACRES) –

8. EXCAVATE FOR BUILDING FOUNDATION AND INSTALL BUILDING FOUNDATION.

PHASE III (APPROXIMATE AREA OF DISTURBANCE 2.81 ACRES) –

: INSTALL REQUIRED UTILITIES, INCLUDING DRAINAGE PIPING.
: INSTALL WATER MAIN, SEWER MAIN AND ELECTRICAL SERVICE (AS NECESSARY). COORDINATE WITH TOWN AND CENTRAL HUDSON.
: BRING SITE TO FINISHED GRADE AND STABLIZE EXPOSED AREAS.
: INSTALL SITE CURBING.
: CONSTRUCT BUILDING AS OUTLINED IN TOWN BUILDING PERMIT.
: SURVEYOR TO VERIFY SITE SUBBASE GRADE PRIOR TO BINDER INSTALLATION TO VERIFY SITE DRAINS AS PER PLAN INTENT.
: INSTALL BINDER COURSE, TOP COURSE, SIGNAGE, SIDEWALK, PARKING LOT STRIPPING, LANDSCAPING, LIGHTING, AND DUMPSTERS.

9. A DISTURBANCE PLAN SHALL CONSISTENTLY BE UPDATED (INCLUDED IN WEEKLY INSPECTION REPORTS) AS SITE DISTURBANCE CHANGES.

10. UPON COMPLETION OF SITE CONSTRUCTION AND STABILIZATION OF DISTURBED AREAS, THE NOT SHALL BE COORDINATED WITH THE TOWN STORMWATER MANAGEMENT OFFICE AND FILED WITH THE NYSDEC.

11. OBTAIN C.O. FROM THE TOWN OF WAPPINGER.

REFER TO EROSION CONTROL MAINTENANCE SCHEDULE FOR FURTHER INFORMATION
EROSION AND SEDIMENT CONTROL PLAN SUBJECT TO ANY IN FIELD MODIFICATIONS REQUIRED BY THE TOWN OF WAPPINGER INSPECTORS, NYSDEC, AND PROJECT ENGINEER. A DISTURBANCE PLAN SHALL CONSISTENTLY BE UPDATED (INCLUDED WEEKLY INSPECTION REPORTS) AS SITE DISTURBANCE CHANGES.

: VEGETATE DISTURBED AREAS NOT TO BE SUBJECT TO CONSTRUCTION WITHIN 14 DAYS.
: UPON INSTALLATION OF SITE SUBBASE AND STABILIZATION OF ALL DISTURBED AREAS, EROSION CONTROL MEASURES ASSOCIATED WITH THIS PHASE MAY BE REMOVED UNLESS OTHER WISE NOTED BY FIELD INSPECTIONS BY THE TOWN ENGINEER AND PROJECT ENGINEER.

CONSTRUCTION EROSION CONTROL MAINTENANCE SCHEDULE (ALL PHASES):

STRUCTURE	INSPECTION	MAINTENANCE REQUIRED	STRUCTURE TYPE
SILT FENCE	WEEKLY	REPAIR, REPLACE	TEMPORARY
STABILIZED CONSTRUCTION ENTRANCE	DAILY	REPAIR, REPLACE	TEMPORARY
LITTER	DAILY	PICK UP	--
DUST	DAILY	SPRAYING, SWEEPING	--
RIPRAP (STONE DIAPHRAGM)	WEEKLY	REPAIR	PERMANENT
VEGETATION ESTABLISHMENT	WEEKLY	WATERING, SEEDING	PERMANENT
SITE DISTURBANCE PLAN UPDATE	WEEKLY	UPDATE DISTURBANCE AREA	--

– REFER TO CONSTRUCTION SEQUENCE FOR ADDITIONAL INFORMATION

SWPPP PLAN ONSITE REQUIREMENTS

EACH CONTRACTOR AND SUBCONTRACTOR IDENTIFIED IN THE SWPPP WHO WILL BE INVOLVED IN SOIL DISTURBANCE AND/OR STORMWATER MANAGEMENT PRACTICE INSTALLATION SHALL SIGN AND DATE A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE UNDERTAKING ANY LAND DEVELOPMENT ACTIVITY:

"I HEREBY CERTIFY THAT I UNDERSTAND AND AGREE TO COMPLY WITH THE TERMS AND CONDITIONS OF THE SWPPP AND AGREE TO IMPLEMENT ANY CORRECTIVE ACTIONS IDENTIFIED BY THE QUALIFIED INSPECTOR DURING A SITE INSPECTION. I ALSO UNDERSTAND THAT THE OWNER OR OPERATOR MUST COMPLY WITH THE TERMS AND CONDITIONS OF THE MOST CURRENT VERSION OF THE NEW YORK STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM ("SPDES") GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND THAT IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS. FURTHERMORE, I UNDERSTAND THAT CERTIFYING FALSE, INCORRECT OR INACCURATE INFORMATION IS A VIOLATION OF THE REFERENCED PERMIT AND THE LAWS OF THE STATE OF NEW YORK AND COULD SUBJECT ME TO CRIMINAL, CIVIL AND/OR ADMINISTRATIVE PROCEEDINGS."

SITE CONSTRUCTION CONTRACTOR: _____

CONTRACTOR ADDRESS: _____

_____

CONTRACTOR PHONE #: _____

CONTRACTOR SIGNATURE: _____ *TITLE:* _____

DATE: _____

SEDIMENT TRAP & DEWATERING DETAIL

NOT TO SCALE

SEEDING NOTES:

1) EXPOSED SLOPES AND ALL GRADED AREAS SHALL BE SEEDED WITH THE FOLLOWING GRASS SEED MIX AS REQUIRED:

STEEP SLOPES (3:1)

TEMPORARY SEEDING -
SUMMER SEASON - GERMAN MILLET @ 40 LBS PER ACRE
WINTER SEASON - RYE GRAIN @ 120 LBS PER ACRE

PERMANENT SEEDING - SPRING/FALL
TALL FESCUE @ 100 LBS PER ACRE
KOBE LESPEDEZA @ 10 LBS PER ACRE
BAHIAGRASS @ 25 LBS PER ACRE
RYE GRAIN @ 40 LBS PER ACRE

4) GRASS SEED MIX MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF N.Y. STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

5) SEEDED AREAS SHALL BE MULCHED AS REQUIRED:

MID-SUMMER, LATE FALL OR WINTER
APPLY AT A RATE OF 100 LBS/1,000 SQ.FT. GRAIN STRAW, COVER WITH NETTING AND STAPLE TO THE SLOPE.

SPRING OR EARLY FALL
APPLY AT A RATE OF 45 LBS/1,000 SQ.FT. WOOD FIBER IN A HYDRO SEEDER SLURRY.

LANDGRADING SPECIFICATIONS

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.
15. ALL DISTURBED AREAS THAT WILL REMAIN PERVIOUS WILL BE REQUIRED TO MEET TABLE 5.3 SOIL RESTORATION REQUIREMENTS FOUND ON SHEET #8 OF THIS PLAN SET.

ADDITIONAL SITE SPECIFIC CONSTRUCTION NOTES:

1. ALL EROSION CONTROL MEASURES AS SHOWN ON THE ORIGINAL APPROVED PLAN SHALL BE CLOSELY FOLLOWED. ADDITIONAL SILT FENCE SHALL BE INSTALLED DOWNSTREAM OF THE SEDIMENT TRAP AREAS.
2. ALL SEDIMENT TRAP SPOIL SHALL BE STOCKPILED AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DETERIORATION OF THE STOCKPILES.
3. THE USE OF TEMPORARY CHAIN LINK FENCE IS ENCOURAGED TO PREVENT UNAUTHORIZED ACCESS TO THE CONSTRUCTION AREA.
4. ONE MEASURING POLE OF NON-DETERIORATING MATERIAL SHALL BE PROVIDED WITHIN EACH SEDIMENT TRAP. THE POLES SHALL BE INSTALLED SUCH THAT OVERTURNING/MOVEMENT DOES NOT OCCUR. A SWATH OF PAINT SHALL BE PROVIDED ON THE POLE TO THE FOLLOWING ELEVATION FOR EACH SEDIMENT TRAP: ACCUMULATION OF SEDIMENT TO THE TOP OF THE SWATH (ELEVATION SPECIFIED) SHALL SERVE TO INDICATE THAT THE SEDIMENT SHALL BE REMOVED AND THE TRAP SHALL BE RESTORED TO ITS ORIGINAL DIMENSIONS.
5. PRIOR TO THE START OF SITE CONSTRUCTION, THE SITE CONTRACTOR SHALL MEET WITH THE TOWN ENGINEER AND STATE HIGHWAY DEPARTMENT TO DISCUSS THE POSTING OF CONSTRUCTION WARNING SIGNS TO ALERT DRIVERS OF THE ACTIVITY NEAR THE CONSTRUCTION SITE. A MPT PLAN SHALL BE DEVELOPED AT THE TIME OF A NYSDOT PERMIT SUBMISSION.
6. ITEMS LOCATED IN THE SWPPP REPORT ON FILE WITH THE TOWN OF WAPPINGER PLANNING OFFICE:
   BACKGROUND INFORMATION ABOUT THE SCOPE OF THE PROJECT, INCLUDING LOCATION, TYPE AND SIZE OF PROJECT.
   - A DESCRIPTION OF PRE/POST DEVELOPMENT CONDITIONS FOR PROJECT SITE DRAINAGE AREA.
   - A DELINEATION OF PRE/POST DEVELOPMENT DRAINAGE BOUNDARIES.
   - HYDROLOGIC AND HYDRAULIC ANALYSIS OF ALL STRUCTURAL DETAILS FOR POST DEVELOPMENT PRACTICES.
   - A COMPARISON OF PRE/POST DEVELOPMENT RUNOFF VALUES
   - LONG TERM MAINTENANCE OF DRAINAGE FACILITIES.

SILT FENCING DETAIL

NOT TO SCALE

DESCRIPTION OF EROSION CONTROL PRACTICES

TEMPORARY SWALE - A TEMPORARY EXCAVATED DRAINAGE WAY. THE PURPOSE OF A TEMPORARY SWALE IS TO PREVENT RUNOFF FROM ENTERED DISTURBANCE AREAS BY INTERCEPTING AND DIVERTING IT TO A STABILIZED OUTLET OR TO INTERCEPT SEDIMENT LADEN WATER AND DIVERT IT TO A SEDIMENT TRAPPING DEVICE.

SILT FENCE - A TEMPORARY BARRIER OF GEOTEXTILE FABRIC (FILTER CLOTH) USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL. THE PURPOSE OF A SILT FENCE IS TO REDUCE RUNOFF VELOCITY AND EFFECT DEPOSITION OF TRANSPORTED SEDIMENT LOAD. LIMITS IMPOSED BY ULTRAVIOLET STABILITY OF THE FABRIC WILL DICTATE THE MAXIMUM PERIOD THE SILT FENCE MAY BE USED.

CHECK DAM - SMALL TEMPORARY STONE DAMS CONSTRUCTED ACROSS A DRAINAGE WAY. THE PURPOSE IS TO REDUCE EROSION IN A DRAINAGE CHANNEL BY RESTRICTING THE VELOCITY OF FLOW IN THE CHANNEL.

STABILIZED CONSTRUCTION ENTRANCE - A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER CLOTH LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET ALLEY, SIDEWALK OR PARKING. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS.

DUST CONTROL - THE CONTROL OF DUST RESULTING FROM LAND-DISTURBING ACTIVITIES. THE PURPOSE IS TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM DISTURBED SOIL SURFACES THAT MAY CAUSE OFF-SITE DAMAGE, HEALTH HAZARDS, AND TRAFFIC SAFETY PROBLEMS.

ROCK OUTLET PROTECTION - A SECTION OF ROCK PROTECTION PLACED AT THE OUTLET AND OF THE CULVERTS, CONDUITS, OR CHANNELS. THE PURPOSE OF THE ROCK OUTLET PROTECTION IS TO REDUCE THE DEPTH, VELOCITY, AND ENERGY OF THE WATER, SUCH THAT THE FLOW WILL NOT ERODE THE RECEIVING DOWNSTREAM REACH. SEE EROSION CONTROL PLAN FOR FURTHER DETAIL.

Know what's below. Call before you dig.

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

	Mark A. Day, PE
March 12, 2021	
February 16, 2021	
January 15, 2021	
January 6, 2021	
November 20, 2020	
Revisions: August 03, 2020	
Project No.: 2020:077	License No. 069646

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

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PROJECT

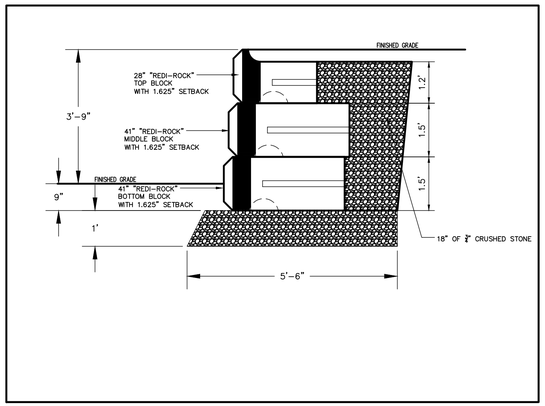
Hudson Valley Lighting

Town of Wappinger — Dutchess County, New York

DRAWING

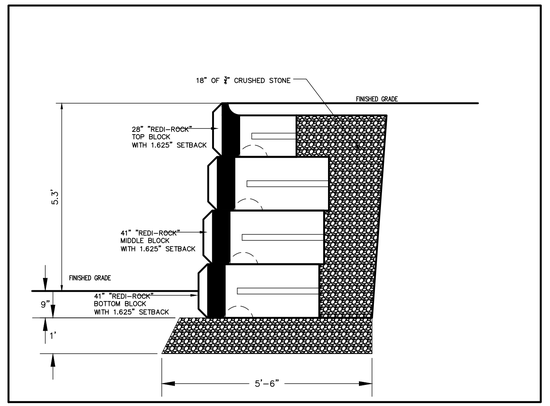
E & SC Details

SCALE	DRAWN BY	DRAWING No.
AS NOTED	ALB	D.2
DATE: 03-09-2020	CHECKED BY: MAD	13of 14



D.1 / S100 **4' RETAINING WALL DETAIL**

SCALE: NOT TO SCALE



D.2 / S100 **6' RETAINING WALL DETAIL**

SCALE: NOT TO SCALE

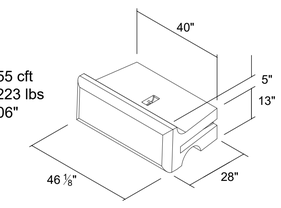
GENERAL NOTES:

1. THE CONTRACTOR SHALL EXCAVATE TO THE LINES & GRADES SHOWN HEREON WHILE NOT DISTURBING THE EXISTING EMBANKMENT. THE EXISTING WOODEN RETAINING WALL SHALL BE REMOVED AND DISCARDED IN AN APPROPRIATE LANDFILL.
2. UNSUITABLE SOILS IN THE FOUNDATION SHALL BE REMOVED AND REPLACED WITH ¾" CRUSHED STONE.
3. THE REDI-ROCK WALL UNITS SHALL HAVE A MIN. 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
4. THE RETAINED BACKFILL SHALL BE AS FOLLOWS:

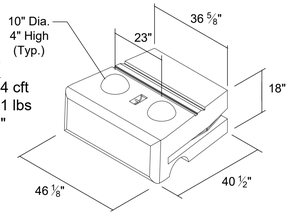
SIEVE SIZE	% PASSING
2"	100
¾"	100-75
No. 4	20-100
No. 200	0-35

5. THE BASE STONE SHALL BE A 12" THICK BED OF ¾" CRUSHED STONE. THE BASE STONE SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698).
6. THE FIRST COURSE OF BOTTOM BLOCK SHALL BE PLACED ON THE STONE BASE AND CHECKED FOR LEVEL AND ALIGNMENT PRIOR TO INSTALLING SUBSEQUENT LAYERS OF BLOCK.
7. SWEEP ALL EXCESS MATERIAL FROM THE TOP OF THE BLOCK PRIOR TO INSTALLING THE NEXT LAYER OF BLOCK.
8. ENSURE THAT EACH COURSE IS COMPLETELY INSTALLED, BACKFILLED AND COMPACTED PRIOR TO INSTALLING SUBSEQUENT LAYERS OF BLOCK.
9. BACKFILL SHALL BE PLACED WITH A MAXIMUM DEPTH OF 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698).
10. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITH 3' OF THE BACK SURFACE OF THE CONCRETE BLOCK.

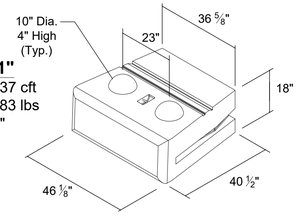
Top - 28"
Volume = 8.55 cft
Weight = ±1223 lbs
C of G = 15.06"



Middle - 41"
Volume = 16.44 cft
Weight = ±2351 lbs
C of G = 20.92"



Bottom - 41"
Volume = 17.37 cft
Weight = ±2483 lbs
C of G = 21.3"



3 / S100 **BLOCK DETAILS**

SCALE: NOT TO SCALE

Know what's **below.**
Call before you dig.

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	Mark A. Day, PE
March 12, 2021	
February 16, 2021	
January 15, 2021	
January 6, 2021	
November 20, 2020	
Revisions: August 03, 2020	
Project No.: 2020:077	License No. 069646

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

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Town of Wappinger — Dutchess County, New York

DRAWING
Retaining Wall Details

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