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TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT:

U.S. CRANE & RIGGING

PROJECT NO.:

2016-14

PROJECT LOCATION:

SECTION 97, BLOCK 1, LOT 21.2

REVIEW DATE:

15 MAY 2017

MEETING DATE:

18 MAY 2017

PROJECT REPRESENTATIVE: MASER CONSULTING

- 1. A Noise Impact Evaluation has been submitted for the Boards use. Noise Impact Study is under review.
- 2. Details of the noise attenuating fence/barrier should be added to the plans.
- 3. Details of the retaining wall which has been incorporated to the rear of the properties fronting on Route 17K should be added to the plans.
- 4. Notes should be added to the plans identifying the architectural sound attenuating features of the building proposed.
- 5. Notes should be added to the plans restricting loading and unloading of equipment and materials. Noise Study identifies that all loading and unloading will occur within structures.
- 6. Notes regarding other management practices to attenuate sound should be added as requirements. The summary of recommended mitigation measures proposes examples and possible building wall attenuation treatments. The report should identify actual materials to be utilized. Notes and other measures identified that are to be implemented should be added to the plans so they are enforceable by the Building Department.
- 7. We would recommend extending the landscaping along the entire length of the sound barrier walls.
- 8. City of Newburgh Flow Acceptance Letter must be received prior to the Planning Board taking any action on the project.
- 9. Hydrant location should be confirmed with Gerry Canfield's office.
 - Regional Office 111 Wheatfield Drive Suite 1 Milford, Pennsylvania 18337 570-296-2765 •

- 10. A Stormwater Facilities Control Maintenance Agreement must be executed.
- 11. Three parking spaces are located in the "front yard" on the emergency access road from Stewart Avenue. Design guidelines suggest no parking in front yard setbacks. The Applicant's representative has stated this is not a conventional front yard as access to the site is restricted to emergency vehicles from this location. We would recommend the Board consider a waiver of the design guidelines at this location for the parking within the front yard setback. The reason for the waiver would be the emergency access only and appropriate landscaping provided at the emergency access drive.

Respectfully submitted,

McGoey, Hauser and Edsall Consulting Engineers, D.P.C.

Patrick J. Hines Principal

PJH/kbw



Noise Impact Evaluation

18 Route 17K

Stewart Avenue and NYS Route 17k Town of Newburgh, Orange County, NY

May 4, 2017

Prepared For

18 Route 17K, LLC

Prepared By

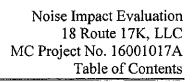
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MC Project No. 16001017A

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A. PROJECT DESCRIPTION AND LOCATION (Figure No. 1)

18 Route 17K, LLC proposes an approximately 62,000 square foot steel fabrication facility with additional ancillary office space of 4,000 square feet on the property known as the Newburgh Auto Auction located at 18 Route 17K in the Town of Newburgh, New York. The portion of the property which would be dedicated to this facility is located in the southwest corner of the site generally east of Stewart Avenue in proximity of the Putnam Street intersection and north of NYS Route 17K. The location of the site is show on Figure No. 1. Under current conditions, the primary noise sources in the area are associated with the traffic generated on Route 17K and Stewart Avenue and noise generated by the current use of the site.

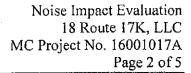
B. SCOPE OF EVALUATION

This evaluation has been prepared to identify existing noise levels in the area and analyze future conditions with the proposed operations to identify any potential impacts due to increased noise generated by the project due to increased traffic, onsite equipment movement and assembly operations. In addition, to evaluate future conditions with the operation, site plan information regarding the building placement, level of traffic, and other activities to be occurring on the site were identified. The existing sound levels were measured to obtain ambient background noise levels along the south and west perimeter of the site including along Stewart Avenue. Traffic volume data on both Stewart Avenue and on Route 17 K were also identified. A description of the noise receptors, noise guidelines, and the analysis methodology utilizing and evaluating the noise levels is described in the following sections.

C. <u>CHARACTERISTICS OF ENVIRONMENTAL NOISE</u> (Tables No. 1 and 2)

A single value of broad band noise levels is established using a frequency weighting that simulates human perception to characterize the noise environment and to asses any impact on noise sensitive areas. Governmental noise criteria generally specify noise level guidelines in the units of A-weighted noise or decibels (dBA). The A-weighted noise measurement has been found to correlate well with the response of the human ear which is relatively insensitive to low frequencies. Table No. 1 provides a summary of some typical A-weighted noise levels. Governmental guidelines typically stipulate that noise impacts be evaluated in terms of noise levels designated Leq or L10. The Leq (Equivalent Sound Level) is an equivalent level "energy averaged" over a specified period of time. This measure is useful for characterizing environmental noise including highway/roadway traffic noise since it specifically accounts for both the duration and magnitude of sound. Other descriptors include Lmax and L90. The Lmax represents the maximum level observed for a specific time period of observation while the L90 represents the noise level which is exceeded 90% of the time.

Community noise guidelines are specified by several agencies including the Environmental Protection Agency (EPA), the Federal Highway Administration (FHWA),





and the Department of Housing and Urban Development (HUD). These agencies have established certain criteria for acceptable noise levels for various land uses and development types. The FHWA guidelines summarized in Table No. 2 recommend an exterior noise level of 57 dBA expressed in terms of L_{eq} for activity Category A or activity Category B and the FHWA recommends an exterior level of 67 dBA and for Category C, a level of 72 dBA.

The NYSDEC publication, Assessing and Mitigating Noise Impacts, revised February 2, 2001, provides guidance for evaluating noise impact assessments. It identifies typical thresholds for establishing significant impacts, and discusses potential methods of avoidance and measures to reduce or mitigate noise impacts. This publication sets forth thresholds that are recommended to be used in determining whether a noise increase due to a project may constitute a significant adverse impact. The guidelines summarize the following:

- Increases in noise of under 3 dBA should have no appreciable effect on receptors;
- Increases of between 3 to 6 dBA may have the potential for impacts where the sensitive receptors such as hospitals or schools are present;
- Increases of more than 6 dBA may require a more detailed analysis of potential impacts depending on the ambient noise levels under existing conditions and the character of surrounding receptors; and
- Increases of 10 dBA are very significant and mitigation measures should be implemented to avoid impacts in such cases.

The NYSDEC document also suggests that the addition of a noise source should generally not result in the L_{eq} noise level exceeding 65 dBA near residential receptors.

Also, Chapter 125 of the Town of Newburgh Code deals with noise regulations. The code addresses maximum permitted sound levels, which are set forth in section 125-5. Based on that portion of the code, noises occurring from 10:00 PM to 8:00 AM are limited to 70 decibels for B, 1B, and I Zoning districts and 56 decibels for various R-Districts.

D. EXISTING NOISE LEVELS (Figure No. 1)

A noise measurement survey was conducted at locations (receptors) surrounding the property to provide a representative sampling of existing noise levels. The receptor locations were chosen to include representative residential and commercial receptors within close proximity to the site and included areas to the south and west of the site.

Noise measurements were taken to identify ambient noise levels in the area. Traffic volumes were also observed along Stewart Avenue and Route 17K. Hourly historical traffic data for Route 17K was also obtained from the NYSDOT. The noise measurements were taken with Bruel and Kjaer Type 1-Precision Integrating Sound Level Meter-Type 2236. The meter was calibrated prior to actual measurements utilizing a standard Bruel and Kjaer Acoustical Calibrator Model No.' 4231. The actual measurements and calibration procedures followed were completed in conformance with the American National Standards Institute (ANSI) criteria.



The microphones used in the measurements were located without obstruction from stationary objects at a height of five feet above a ground surface. Measurements taken included a L_{eq} level, a L_{10} level, and a L_{max} level. The measurements were taken during on Wednesday, April 5, 2017. Weather conditions were clear on the day of the measurements. Existing measured noise levels represented in terms of L_{eq} (dBA) during the peak periods ranged from the mid 60's to mid 70's along Route 17K and mid 50's to mid 60's along Stewart Avenue. At certain times during the measurements, L_{max} levels closer to Route 17K were observed exceeding 85 dBA during daytime hours. Also, the noise from the Auto Auction on-site equipment's back up alarms was noticeable along Stewart Avenue. The receptor locations considered are shown on Figure No. 1 was considered.

E. NOISE ANALYSIS METHODOLOGY

In order to evaluate the potential noise impacts, two criteria are generally utilized:

- 1. Will the predicted noise levels exceed the recommended guidelines for a particular area?
- 2. Will there be a significant increase above the existing levels (i.e. 3 dBA or greater).

As indicated previously, community noise guidelines are published by several Federal Agencies including the Environmental Protection Agency (EPA), the Federal Highway Administration (FHWA), and the Department of Housing and Urban Development (HUD). These guidelines establish recommended design noise levels for specific land uses. With respect to roadway and traffic noise, FHWA has established certain guidelines for various land use categories. The FHWA recommends a Leq design level of 72 dBA for commercial areas, 67 dBA for residential areas, and 57 dBA for other more noise sensitive areas. Table No. 2 summarizes the design level/land use relationships for various land use categories. Additional discussion of how the existing and future noise levels compare to the various noise guidelines is presented in the next section.

Table No. 3 summarizes the relationship between noise increases and significance of impacts. It is important to note that in order to produce a 3-dBA increase in the sound pressure level, which represents a perceptible change relative to human response, a doubling of the noise source (i.e. traffic volume) must occur. Furthermore, with regard to sound propagation in the air, as distance doubles from the sound source the amplitude drops by half. This is a drop of approximately 6 dBA for a point source. For a line source such as mobile sources, reductions of 3 dBA for doubling distances are encountered under typical field conditions. For example, if a highway has an hourly volume of 2,000 vehicles and a L_{eq} of 62 dBA and the volume increases to 4,000 vehicles with similar speeds and vehicle mix, the L_{eq} would increase to 65 dBA. To evaluate potential sound level impacts with respect to the proposed assembly operation, the existing measured noise levels were summarized and projected to future conditions.



F. PROPOSED OPERATIONS AND FUTURE SOUND LEVELS

Traffic to and from the site will be from the site onto Route 17K west to Route 300 north to enter the New York State Thruway. No truck traffic on local roads is proposed. The access connection to Stewart Avenue will be a gated emergency access only. Traffic from the site would be periodic or sporadic and not a constant flow of vehicles. Typical hours of operation for the steel fabrication facility is 7:00 AM to 5:00 PM with possible peak days extended from 6:00 AM to 6:00 PM. Raw steel deliveries occur in the morning where a delivery truck would enter the site from Route 17K and enter the proposed 62,000 square foot building to be offloaded by building mounted cranes. All steel fabrication takes place inside the building. The unloaded truck then leaves the building and exiting the site onto Route 17K.

Jockey tractors move these trailers into the building where the trailers are loaded and then the loaded trailers are parked in the yard for pick up. Tractor trailer drivers hook up these loaded trailers and deliver steel to the job for assembly.

Typically trailers may enter and leave the yard at 5:00 AM and return at 5:00 or 6:00 PM. Tractor trailers may enter and leave the site 24 hours a day. Loading and unloading of these trailers is done inside the fabrication building.

The area adjacent to the site is characterized by a mix of residential and commercial uses. Immediately west of the proposed building is an existing industrial building and an existing multi-family residence on Stewart Avenue. On the west side of Stewart Avenue there are single family residences. Along Route 17K and south of the site, the former residential buildings have been converted to a mix of office, residential, and other commercial uses. It should also be noted that the existing commercial buildings are located less than 50 feet of NYS Route 17K and traffic noise levels are predominant with L_{max} levels exceeding 85 dBA during daytime hours.

The vehicle movements, to and from the two bays on the north side of the building, are in an area where the proposed grade provides an earth barrier. In the southeastern area, where traffic movements will occur entering to and from the building, the line of sight from that area looking south will result in sound propagating from this area of the site (see below for recommended improvements).

The proposed activities on the site, including tractor movements, are expected to have sound levels of between 75 to 85 dBA at a 50' reference distance. This would result in Leq levels of between 65 to 75 dBA at the southern and southwestern property lines. Therefore, as summarized below, several mitigation measures were identified to bring the levels in compliance with Town requirements.

G. SUMMARY OF RECOMMENDED MITIGATION MEASURES

Based on the results of the evaluation, several mitigation measures are recommended to minimize potential noise impacts as a result of the proposed steel fabrication facility. These include the following:

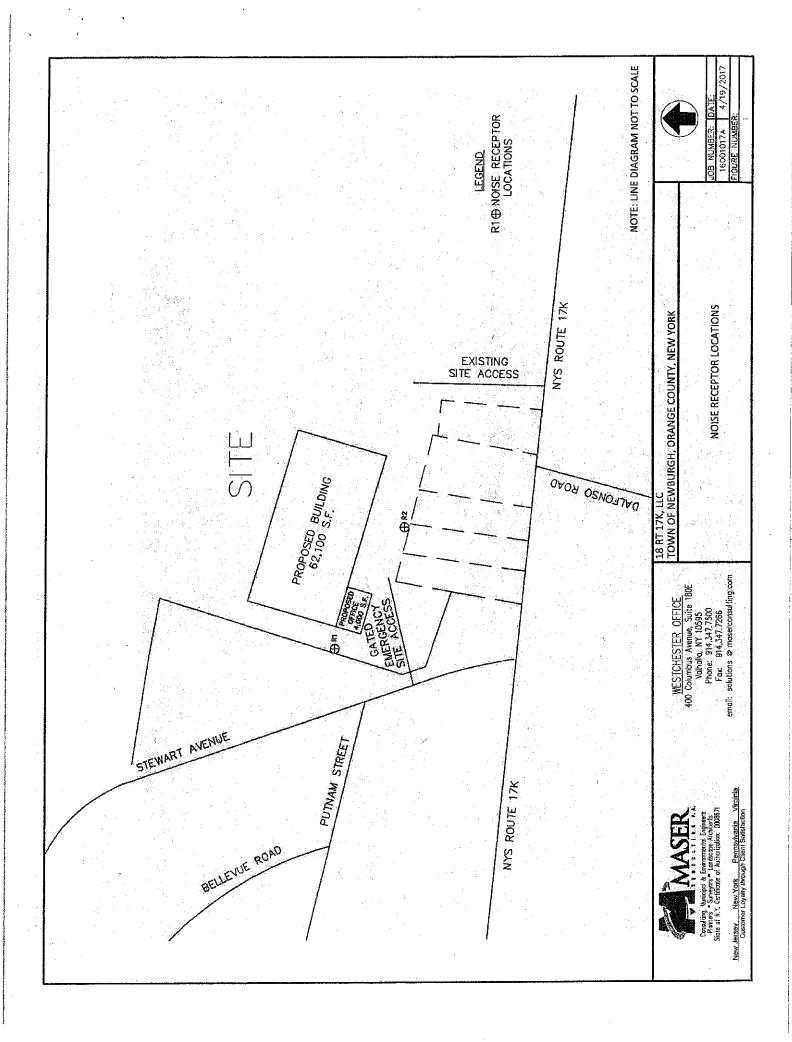


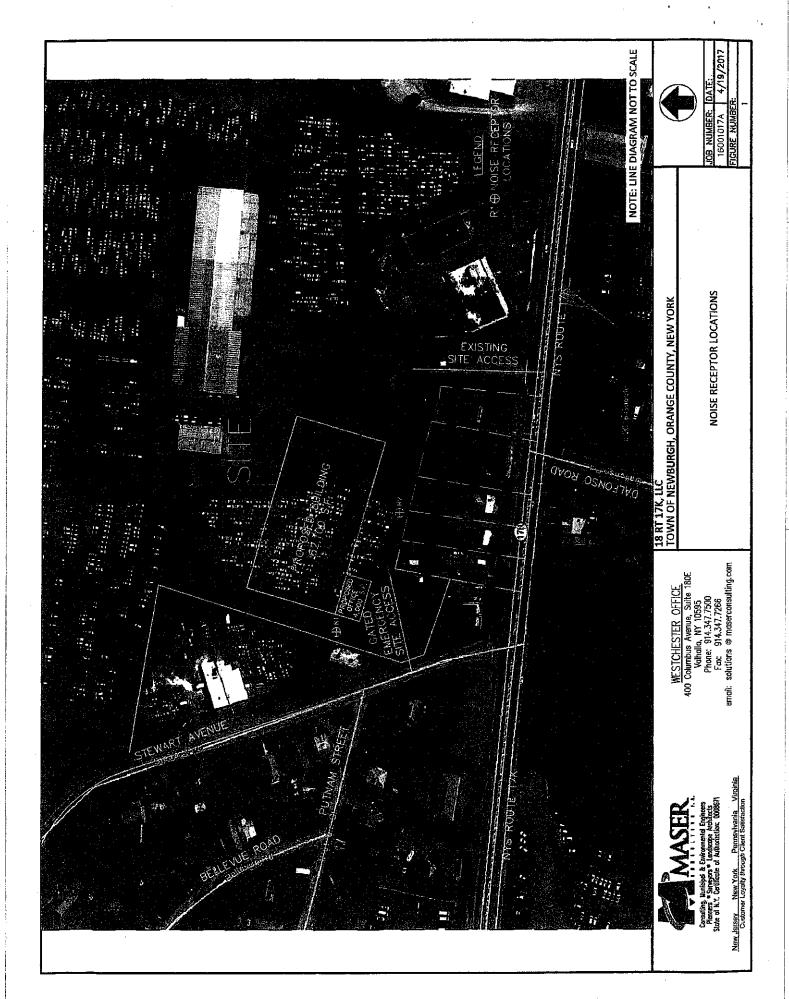
- 1. Sound Transmission Class (STC) is a single number classification used to rate the sound transmission loss of a wall. A higher STC value indicates a more efficient wall type in reducing sound transmission. Data was supplied for possible building wall attenuation treatments. Included in Appendix C are the data sheets summarizing the results for the Thermal Safe Panel, which had an STC rating of 31. This is recommended as the minimum for the site.
- 2. The difference in grade and presence of the new building will provide attenuation between the residential areas on Stewart Avenue and the sound levels from the proposed activities on the site. In fact, the new building should also act as a partial sound barrier from the existing activities on the eastern portion of the site. In addition to the provision of the Thermal Safe Panels or equivalent as part of the building construction, it is also recommended that along the south and southwest property lines that a sound barrier treatment be provided. This would extend along the south of the proposed internal site connector road as well as along the southwest area near the parking area for the office building. This will reduce the propagation of sound resulting from vehicle movements to and from the eastern building entrances by cutting off the line of sight to the adjacent properties.
- 3. The equipment used on-site will have to be inspected periodically to ensure that properly functioning muffler systems are used on all equipment.
- 4. While on the site, all equipment should not idle unnecessarily.
- 5. Alternative safety alarm systems should be utilized on the loading equipment. For example, in lieu of continuous backup beepers, infrared backup alarms or the equivalent should be used to minimize the use of the backup beepers.
- 6. In addition to the recommended building construction/insulation, sound attenuation measures, and the provision of baffling/enclosures around any HVAC equipment, should also be implemented. The HVAC equipment should also be positioned to face away from the residential areas.
- 7. As summarized in Table N-1, the provision of the above improvements will result in future levels at the adjacent property lines that will be in compliance with the Town Code and NYS DEC guidelines for avoiding adverse impacts.

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APPENDIX "A"

FIGURES





APPENDIX "B"

TABLES

TABLE NO. 1

RANGE OF TYPICAL ENVIRONMENTAL A-WEIGHTED NOISE LEVELS

SITUATION	NOISE LEVEL (Dba) (1.2)
Discotheque/Rock Band at 5m	110
Jet Flyover at 1000 ft.	105
Gas Lawn Mower at 3 ft.	98
Inside Subway Train	95
Shouting at 3 ft.	78
Gas Lawn Mower at 100 ft.	70
Normal Speech at 3 ft.	65
Background Office Noise	50
Library	35 - 40
Optimum Sleeping Level	35 or less
Threshold of Hearing	5

Sources:

The Audible Landscape: Manual for Highway Noise and Land Use, Table A-16, Page 91, USDOT, 1974
 Transportation Planning Handbook, Institute of Transportation Engineers, Figure 8-2, 2nd Edition, 1999

TABLE NO. 2

FHWA DESIGN LEVELS

Activity	Design Noise	e Level (dBA)	Description of Activity
Category	$L_{\rm eq}$	L_{10}	Category (2)
A	57 (EXTERIOR)	60 (EXTERIOR)	Tracts where serenity and quiet are especially important.
В	67 (EXTERIOR)	70 (EXTERIOR)	Residences, motels, schools, churches, hospital, etc.
C	72 (EXTERIOR)	75 (EXTERIOR)	Developed lands other than those above.
Е	52 (INTERIOR)	55 (INTERIOR)	Building interiors.

- (1) Source: Federal Highway Administration, Procedures for the Abatement of Highway Traffic Noise and Construction Noise, Federal Register 41 (80), Washington, D.C.
- (2) Either L_{eq} or L₁₀ can be used not both and an hourly measure applies. The land-use descriptions are further qualified in the reference, and a category D is also reserved for undeveloped land. The interior noise levels may be established by subtracting from outdoor levels the attenuation expected of the particular wall and window constructions involved.

TABLE NO. 3

HUMAN REACTION TO INCREASES IN SOUND PRESSURE LEVEL

INCREASE IN SOUND PRESSURE (dBA)	HUMAN REACTION
2 – 3	Barely Perceptible
3-5	Noticeable
10	Somewhat Intrusive - Doubling of Loudness
10 – 15	Very Noticeable
15 – 20	Objectionable
Over 20	Very Objectionable to Intolerable

Source:

¹⁾ Fundamentals and Abatement of Highway Traffic Noise, FHWA, 1973

Table N-1 Summary of Projected Future Noise Levels (Leq-dBA)

Receptor	Build	Build w/Building Insulation	Build w/BI & Sound Barrier
RI	68.5	60.5	53.9
R2	71.0	64.7	56.7

Notes:

- 1) Levels shown are at site property line at receptor locations identified on Figure 1.
- 2) Future Levels shown are based on internal building sound sources and external mobile sources.
- 3) Levels for "with Building Insulation" are based on installation of Thermal Safe Insulated Panels (Thickness 4") or equivalent.
- 4) Levels for "with South Barrier" include an 8' high AIL-PVC Soundwall or equivalent in addition to the building insulation treatment.



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New York State Department of Transportation Traffic Count Hourly Report

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New York State Department of Transportation Traffic Count Hourly Report

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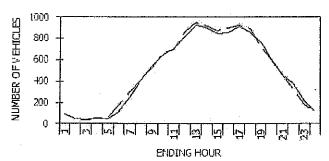
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New York State Department of Transportation Classification Count Average Weekday Data Report

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 F10 6 or More Double Unit Vehicles, One Unit is a Truck
 F11 5 or Less Axie Multi-Unit Trucks
 F12 6 Axie Multi-Unit Trucks
 F13 7 or More Axie Multi-Unit Trucks

• INCLUDING THOSE HAULING TRAILERS

FUNCTIONAL CLASS CODES:

RURAL URBAN

11 PRINCIPAL ARTERIAL-INTERSTATE
12 PRINCIPAL ARTERIAL-EXPRESSWAY
14 PRINCIPAL ARTERIAL-OTHER
16 MINOR ARTERIAL
17 MAJOR COLLECTOR
17 MINOR COLLECTOR
19 LOCAL SYSTEM

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ACOUSTIC SYSTEMS ACOUSTICAL RESEARCH FACILITY OFFICIAL LABORATORY REPORT AS-TL2912

Subject:

Sound Transmission Loss Test

Date:

15 April 2006

Contents:

Transmission Loss Data, One-third Octave Bands

Transmission Loss Data, Octave Bands

Sound Transmission Class Rating

Outdoor / Indoor Transmission Class Rating

Airborne Sound Reduction Index

on

ThermalSafeTM Insulated Panels - Nominal Thickness 4"

for

Metl-Span i Ltd.

ACOUSTIC SYSTEMS ACOUSTICAL RESEARCH FACILITY is NVLAP-Accredited for this and other test procedures.

National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program

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- Results apply only to the unit tested and do not extend to other same or similar items.
- The term NVLAP or the NVLAP logo does not denote product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

INTRODUCTION

Sound Transmission Loss of a partition in a specified frequency band is defined as ten times the common logarithm of the airborne sound power incident on the partition to the sound power transmitted by the partition and radiated on the other side. The quantity so obtained is expressed in decibels.

APPLICABLE STANDARDS

ASTM E 90-04

"Standard Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements"

ASTM E 413-04

"Standard Classification for Rating Sound Insulation"

ASTM E 1332-90 (2003) ASTM E 2235-04e1 "Classification for Determination of Outdoor-Indoor Transmission Class"

"Standard Test Method for Determination of Decay Rates for Use in

ISO 717-1:1996

Sound Insulation Test Methods"
"Acoustics - Rating of sound insulation in buildings and of building elements
Part 1: Airborne sound insulation"

SPECIMEN DESCRIPTION

The test specimen was a symmetrical wall construction whose nominal overall dimensions were 2438 mm in length by 2438 mm in width by 102 mm in depth [96 by 96 by 1 inches]. The test specimen was designed, manufactured, submitted for test, and designated "ThermalSafeTM Insulated Panels – Nominal Thickness 4²³⁰ by Metl-Span 1 Ltd. of Lewisville, Texas. Three (3) ThermalSafeTM insulated metal panels were utilized in the construction of this specimen – one (1) panel of the nominal plan dimension 305 mm in width by 2438 mm in height [12 by 96 inches]; and, two (2) panels of the nominal plan dimensions 1067 mm in width by 2438 mm in height [42 by 96 inches]. Actual thickness of these panels was 97 mm [3.8 inches]. Panels utilized double tongue and groove joints. The exterior and interior panel faces were 0.55 mm [26 gal] galvanized sheet metal with a baked finish. The insulation material was mineral fiber of density 136 kg/m³ [8.5 lbs/ft³]. Exterior panel joints were sealed with cured bead of 5 mm [3/16 inch] silicone sealant.

The surface area of the specimen was 5.9 square meters [64.0 square feet]. The weight of the test specimen was measured as 129.3 kg [285.0 pounds], giving a weight per unit area of 21.7 kg/m² [4.5 pounds/ft²].

TEST SPECIMEN MOUNTING

The specimen was mounted in the 2440 nm by 2440 mm transmission loss test opening. The face of the specimen was sealed to the edge of the test aperture with dense mastic putty. The calculated transmission loss of the test specimen was evaluated against facility flanking limits to determine any affects on specimen performance.

DESCRIPTION OF TEST

Two (2) loudspeakers in a 200 cubic meter reverberation chamber, designated as the "Source Room", produced broadband pink noise. A 255.6 cubic meter reverberation chamber, designated as the "Receive Room", is coupled to the Source Room through the transmission loss opening. The steady-state space-time average sound pressure levels in the Source and Receive Room were determined using rotating microphone booms and a Norsonic Dual-Channel Real-Time Analyzer Nor-840. Sound absorption in the Receive Room was determined by performing decay rate measurements. Measurements are made in the ISO-preferred one-third octave bands from 50 Hz to 10000 Hz. Sound Transmission Class (STC) is the single number rating that is calculated from Sound Transmission Loss values to provide a performance estimate of a partition in certain interior sound insulation situations. Airborne Sound Reduction Index (R_w), defined in ISO 717-1, is used internationally and is a similar rating to Sound Transmission Class (STC). Outdoor-Indoor Transmission Class (OITC) is the single number rating that is intended to rate effectiveness of building façade elements at reducing transportation noise intrusion.

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Precision of calculated Sound Transmission Loss values varies with frequency band and is included in the table within this document. The test was performed in strict accordance with ASTM E90-04. Data for laboratory flanking limit and reference specimen tests are available on request.

This test took place at ACOUSTIC SYSTEMS ACOUSTICAL RESEARCH FACILITY, Austin, Texas, on March 31, 2006.

ENVIRONMENTAL CONDITIONS

During the test, environmental conditions in the Receive Room were 21.9C with 68.0% relative humidity. Conditions in the Source Room were 22.6C with 69.6% relative humidity. Environmental conditions remained within strict limits imposed by the laboratory.

Respectfully Submitted,

Michael C. Black Laboratory Technical Director

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TRANSMISSION LOSS DATA

Sound Transmission Loss of the test specimen at the preferred one-third octave band center frequencies is tabulated below and then presented graphically. Octave-band Transmission Loss values are calculated as described in Section 12.3 of ASTM E90.

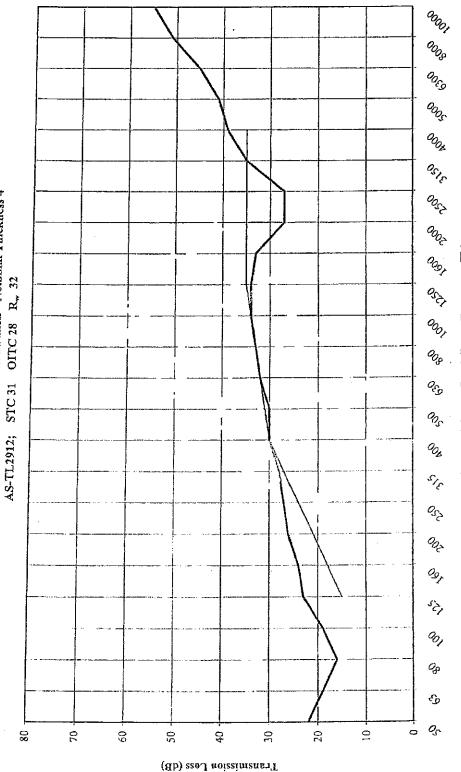
Metl-Sp	an 1 Ltd	- ThermalS:	afe TM Insul	ated Panels	- Nominal	Thickness 4"
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1/3 Octave Band	Transmission	Uncertainty		Octave Band	STC	R_w
Center Freq (Hz)	Loss (dB)	(+/- dB)	Notes	TL (dB)	Deficiencies	Deviations >8dl
50	22		[b](f]			
63	19		[f]	18		
80	16	3.0				
100	19	2.9]		· - · · ·
125	23	2.1		21		
160	24	1.8				
200	26	1.4				
250	27	0.7		27		
315	28	0.5				
400	30	0.5				
500	30	0.5		j 51	1	
630	. 32	0.3				
800	33	0.3				
1000	34	0,3		34		1,7
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2000	27	0.2		28	8	9.5
2500	27	0.2			8	9.2
3150	35	0.2				
4000	39	0.2		38		
5000	41	0.3				
6300	45	0.4				
8000	51	સ્ત		48		
10000	55	0.6				
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OITC	28			÷		
Rw	32					

Note: [3]: Sound Pressure Level in Receive Room less than 5 dB above ambient, Correction of 2 dB applied. Value represents lower bound for specimen TL in this band; [b]: Specimen TL within 10 dB of facility flanking limits. No correction applied. Value represents lower bound for specimen TL in this band; [c]: Specimen TL corrected for sound transmission through laboratory filler wall per ASTM E90-04 Section 7.3.1.6; [d]: Specimen TL too close to laboratory filler wall. Values represents lower bound for specimen TL in this band; [c]: Uncertainty in this band exceeds limits of ASTM E90-04 Section A2.2.; [f] Insufficient number of independent microphone samples to determine test uncertainty.

Method Precision, Bias, 95% Confidence Interval – Precision: Repeatability depends on the specimen tested. Round robin testing on ASTM E1289 reference specimen produced reproducibility standard deviation of 2 dB or less at all test frequencies 125 Hz to 4000 Hz. Bias: No bias in this method as true value defined by the test method. 95% Confidence Interval: Facilities and microphone systems produce one-third octave band Transmission Loss measurement uncertainties less than: 80 Hz - 6 dB; 100 Hz - 4 dB; 125 Hz, 160 Hz - 3 dB; 200 Hz, 250 Hz - 2 dB; 315 Hz to 4000 Hz - 1 dB.

Metl-Span I Ltd. ThermalSafe^{rM} Insulated Panels - Nominal Thickness 4" AS-TI 2012. STC 31 OTTC 30 30 30



One-third Octave Band Center Frequency (Hz)



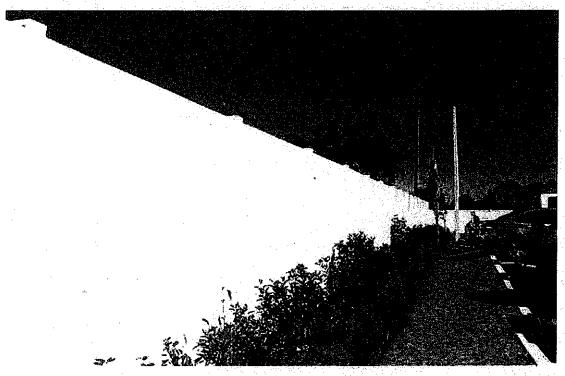


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Sound wall blends in with PVC fencing around Florida body shop

April 18, 2017



The recently constructed Foggy Ridge Body Shop had a pretty clear idea about what they wanted in a sound barrier wall to mitigate unwanted noise for their residential neighbors on one side of their shop.

They wanted a system that would blend in aesthetically with the white PVC perimeter fencing they were installing around t rest of their property. They wanted a lightweight, economical system that would install easily in this high water table area suburban Tampa.

They found everything they were looking for in AIL Sound Walls.

First served as a construction sound barrier

Often on new construction sites like this, we recommend that our AIL Sound Walls go in first so they can also protect the neighbors against unwanted construction noise. That's how it went on this project.

Operations Narrative 18 Route 17K, LLC

This narrative describes the uses and processes conducted within the proposed structural steel fabrication facility ("fabrication facility").

The fabrication facility will include cutting, bending and assembling processes. The fabrication facility will bid on a job, usually based on engineering drawings, and if awarded the contract, will fabricate the product. There are various processes utilized in production including welding, cutting, forming and machining. Typical projects include columns, beams, loose parts and structural frames for buildings and heavy equipment and stairs and railings for buildings.

Cutting is done by sawing, shearing, or chiseling (all with manual or powered variants): torching with hand held torches (such as oxy-fuel torches or plasma torches with manual or powered variants); and via numerical control (CNC) cutters (using laser, mill bits, or water jet).

Bending is done by hammering (manual or powered) or via press brakes and similar tools. Press brakes will be used to bend metal into form. CNC-controlled back gauges use hard stops to position cut parts in order to place bend lines in the correct position. Off-line programming software makes programming the CNC-controlled press brakes seamless and efficient.

Assembling (joining of pieces) is done by welding, binding with adhesives, riveting, threaded fasteners, or even yet more bending in the form of a crimped seam. Structural steel is the usual starting material for the fabrication along with welding wire, flux and fasteners that will join the cut pieces if called for in the shop drawings. Both human labor and automation are used.

Fabrications for structural work begin as prefabricated segments in the fabrication facility and then moved to the construction site by truck, rail, or barge and finally installed by erectors at the construction site.

All work is conducted inside the facility. Outside, there will be a designated staging area (designated on the site plan) where the finished product will be placed on trailers for delivery.

Machines and equipment for the line and staging areas will include trailer jockeys, forklifts and tractor trailers.

Cutting and burning include special band saws designed for cutting metal and have hardened blades and a feed mechanism for even cutting. Abrasive cut-off saws, also known as chop saws are similar to miter saws but with a steel cutting abrasive disk. Cutting torches can cut very large sections of steel with little effort.

Burn tables are CNC cutting torches, usually natural gas powered. Plasma and laser cutting tables, and water jet cutters are also utilized for this process. Steel is loaded on a table and the parts are cut as programmed. This may also include CNC punch capability, with a carousel of different punches and taps. Fabrication of structural steel by plasma and laser cutting will be done with computerized machines.

Machining to remove unwanted material from the block of metal to get the desired shape is done as well. The steel fabrication facility will entail machining capability including metal lathes, magnetic based drills along with other portable working tools. Waste steel will be periodically removed from the site for recycling in a 30 yd. dumpster. Reusable pieces of steel will be stored in designated areas (as depicted on the site plan) away from residences and abutting businesses.

Formed and machined steel will be assembled and tack welded into place then re-checked for accuracy. The welder then completes welding as per the engineering drawings.

The fabrication facility contains office area for the administrative support of the fabrication facility business.



Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

555 Hudson Valley Ave., Suite 101 New Windsor, NY 12553 T: 845.564.4495 F: 845.567.1025 www.maserconsulting.com

May 5, 2017

VIA HAND DELIVERY

John Ewasutyn, Chairman Town of Newburgh Planning Board 308 Gardnertown Road Newburgh, New York 12550

Re:

18 Route 17K, LLC

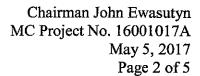
Town of Newburgh, Orange County, New York MC Project No. 16001017A, PB#2016-14

Dear Chairman Ewasutyn:

Below please find our responses to comment letters received from Creighton Manning dated March 14, 2017; and McGoey, Hauser & Edsall (MHE), dated March 10, 2017 and April 6, 2017; the comments have been repeated here for clarity.

Creighton Manning, March 14, 2017

- Comment 1. Based on the operations of the site, it does not appear that a significant volume of traffic will be generated. Proportionally, a large percentage may be heavy vehicles but relatively minor compared to the volumes on Route 17K.
- Response 1. Statement is correct.
- Comment 2. We expect Route 17K to accommodate the volume and type of traffic expected, particularly when cranes and deliveries occur outside the peak hours.
- Response 2. There will be no cranes accessing the site. Traffic volume to and from the site will therefore be reduced compared to our prior application.
- Comment 3. The Route 17K entrance is proposed to be narrowed, reducing the amount of impervious surface, and the Dollar General sidewalk extended west to the US Crane property line. We support the intent of these plan modifications and the applicant will need to review with NYSDOT.
- Response 3. Maser Consulting met with the NYSDOT Eastern Orange County Regional Permit Engineer on April 25. We discussed the locations of the proposed sidewalk extensions, that the existing guiderail separating the two driveway lanes accessing the site would be cut back, the new reduced width of the driveway, the proposed



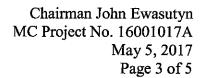


radii and minor adjustments to the rim of a drainage inlet in the driveway. Our traffic group is currently preparing plans for a permit application to the NYSDOT.

- Comment 4. The truck turning movements should be checked at the Route 17K entrance as they may off-track on the driveway shoulder or hit the driveway guiderail.
- Response 4. The existing guiderail has been cut back to allow for access to the site for tractor trailers.

McGoey, Hauser & Edsall (MHE) March 10, 2017

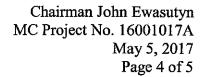
- Comment 5. The site has been redesigned to provide an emergency access only from Stewart Ave. This access will be gated. Comments from Jurisdictional Fire Department regarding the access road should be received.
- Response 5. Statement is correct.
- Comment 6. City of Newburgh Flow Acceptance letter for the new building must be received. Planning Board can take no action on the project until City of Newburgh Flow Acceptance letter is received. Proposed hydraulic loading from the structure should be identified in a narrative report submitted to the Town Engineer for processing with the City of Newburgh.
- Response 6. Maser Consulting has been following up with the Town Engineer diligently towards our obtaining this flow acceptance letter. It should be noted with that the flow projected from this facility is only 450 gallons per day.
- Comment 7. Crane and truck parking areas have been delineated on the site. The balance of the site will be utilized for storage of passenger vehicles by the current site operator. Expansion of the contractor yard/ LHI use beyond those depicted on the site plan would require review and approval by the Planning Board for future expansions.
- Response 7. The Applicant has rescinded their request for LHI Overlay. Trailer staging and storage are shown on the plan and outlined in the Operations Narrative provided by 18 Route 17 K, LLC.
- Comment 8. Future submissions should incorporate architectural renderings for architectural review by the Planning Board.
- Response 8. Comment noted.
- Comment 9. A review of the proposed sanitary sewer lateral serving the new structure identifies





that only the proposed office portion of the building will be served by the sanitary sewer line. It is unclear if restroom facilities and or other water uses are proposed in the larger portion of the structure. It is noted that the finished floor elevations between the office and the proposed building are approximately 11 ft. elevation difference.

- Response 9. A second sewer lateral has been added for the rest room in the fabrication building.
- Comment 10. The Water Main Wet Tap detail identifies thrust blocks to be utilized. Town of Newburgh requires all piping be restrain joint pipe without the use of thrust blocks.
- Response 10. Thrust blocks have been removed from the detail.
- Comment 11. Sanitary sewer connection to an existing Town manhole must be by core drilling only; any other method is not acceptable to the Town. This must be noted on detail.
- Response 11. Sanitary connection is proposed to 8" main that runs through the site. A Detail Connection has been provided.
- Comment 12. Gerald Canfield's comments regarding location of any proposed hydrants on the site should be received.
- Response 12. There are three existing fire hydrants serving the site: one at our emergency entrance off Stewart Avenue, one at the entrance at Route 17 K and the third is on the site at the south-west corner of the existing auto auction building. We have received no request for any additional hydrants on the site either from the fire department official or from Mr. Canfield.
- Comment 13. Stormwater Pollution Prevention Plan is under review by this office. The majority of the site is existing impervious cover. A slight reduction in impervious cover is proposed though implementation of landscaping and green areas. Water quality controls are proposed utilizing proprietary treatment products. A stormwater facilities control maintenance agreement is required to be executed.
- Response 13. This agreement will be coordinated with the Town of Newburgh. Maintenance requirements for the devices on the site are provided in the Stormwater Pollution Prevention Plan.
- Comment 14. The proposed structure is located at the side yard setback. Standard note requiring submission of surveyed plot plan prior to issuance of Building Permit should be added to the plan.
- Response 14. The building has been relocated and a note added to the Plan.





- Comment 15. Previous comments regarding parking in front yard setback with regard to compliance with design guidelines still exist. The Applicants representatives have stated that landscaping is proposed to request a waiver for the design guideline requirement of no parking in front of structures. Planning Board should evaluate proposed landscape with regard to the need to grant the design guideline waiver.
- Response 15. This 'front' access along Stewart Avenue does not propose typical 'front' access. The 'front' access at this location is only for emergency vehicles. Typical 'front' access will be utilized at the 17K entrance.
- Comment 16. A more detailed survey has been submitted with the plans. This office withdraws the comment requiring delineation of the NYSDEC Wetlands as topography on the site clearly indicates no work is proposed within wetland areas. Flood plain boundary has been depicted based on 2009 mapping and site topography.
- Response 16. We agree with the statement.
- Comment 17. Project requires Town Board approval for an overlay district.
- Response 17. No approvals are required from the Town Board. No variances are required from the zoning code.
- Comment 18. Based on additional information submitted along with the detailed plans and Stormwater Pollution Prevention Plan identifying water quality control methodology this office would take no exception to the Planning Board issuing a Negative Declaration for the proposed project with the current scope of the project as indicated in the submitted narratives and plans.
- Response 18. A Negative Declaration was declared by the Planning Board at an earlier meeting.

 The applicant request a copy of this Negative Declaration for their files. Thank you
- Comment 19. It is requested the Applicants discuss with the Planning Board the storage of the cranes on the site. Visual impacts may result if numerous cranes are stored on the site in the operational mode for the cranes. Currently this office envisions the cranes being stored in a stowed condition and not with booms extended.
- Response 19. LHI Overlay District is no longer proposed. No cranes will be proposed on site.



McGoey, Hauser & Edsall (MHE) April 6, 2017

Comment 20: This office has reviewed a Stormwater Pollution Prevention Plan received 7 March 2017 for the subject project. The project is covered under the redevelopment portions of the NYSDEC Stormwater Regulations, as it is an existing site and proposing to reduce impervious surfaces on the site in the vicinity of the project by approximately 4%. The project has instituted water quality controls utilizing a proprietary hydrodynamic separator system.

Response 20: Comment Noted.

Comment 21: The plans must be coordinated with the Stormwater Pollution Prevention Report with regard to the hydrodynamic separators proposed. Six-foot diameter separators are proposed in the report while four-foot separator is detailed on the plans. Pipe sizing should be coordinated between the plan details and the Stormwater Management Report.

Response 21: The Plans have been revised to match the Stormwater Pollution Prevention Plan.

Comment 22: A Stormwater Facilities Control Agreement must be executed by the site owner for long-term maintenance of the Stormwater Management system.

Response 22: Comment Noted.

Very truly yours,

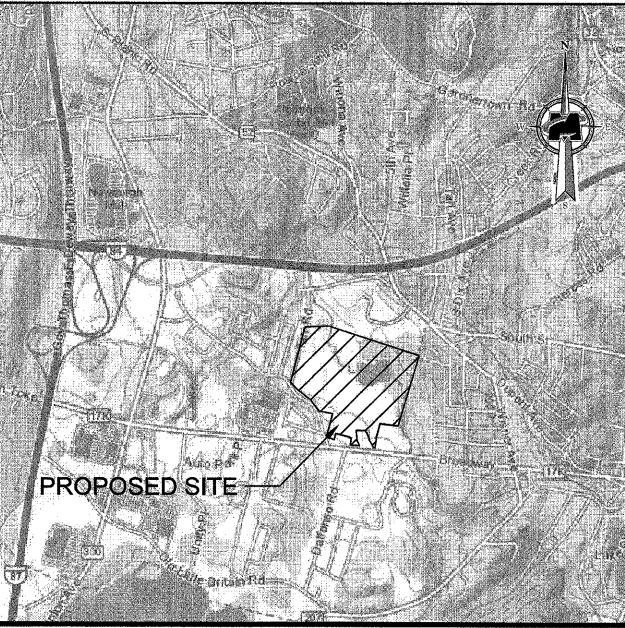
MASER CONSULTING P.A.

Andrew B. Fetherston, P.E. Principal Associate

ABF/jm Enclosure

cc:

Tom Auringer, w/enclosures Tim McColgan, w/enclosures Verticon, LTD, w/enclosures File. w/enclosures

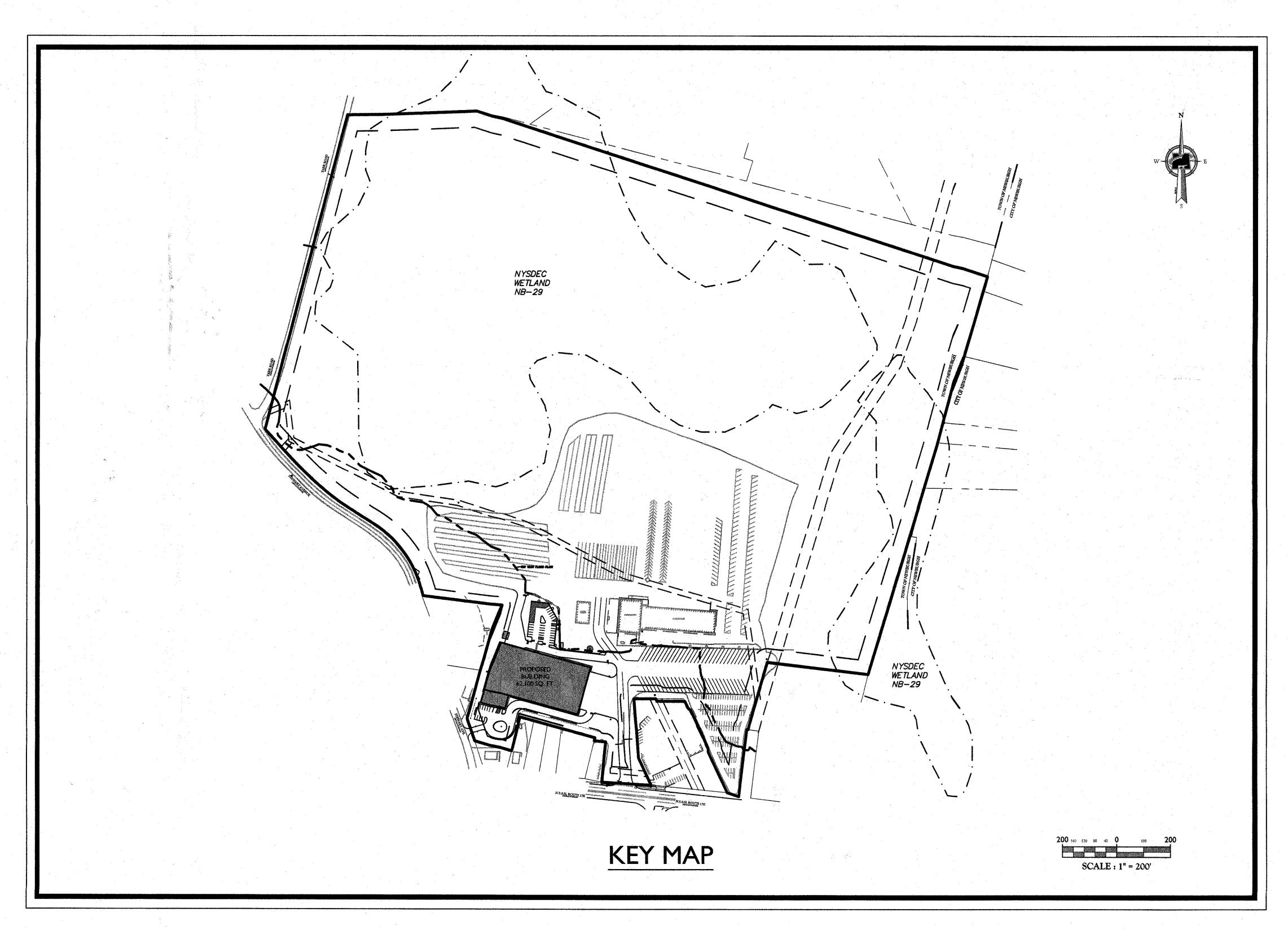


TAX MAP 1"=2000'

SITE PLAN FOR

18 ROUTE 17K, LLC SECTION 97, BLOCK 1, LOT 21.2

TOWN OF NEWBURGH COUNTY OF ORANGE, STATE OF NEW YORK,



GENERAL INFORMATION

- I. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS TAKEN FROM A FIVE PAGE PLAN ENTITLED "BOUNDARY AND PARTIAL TOPOGRAPHIC SURVEY" PREPARED BY MASER CONSULTING, P.A. AND PREPARED FOR 18 ROUTE 17K, LLC, DATED JANUARY 19,
- 2. THE HORIZONTAL DATUM IS RELATIVE TO THE NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE AND ADJUSTED TO NAD 1983. THE VERTICAL DATUM IS RELATIVE TO
- 3. THE 100 YEAR FLOOD PLAIN THAT IS ON SITE IS PER THE FLOOD INSURANCE RATE MAP 3607 I CO 143E, DATED AUGUST, 2009 PREPARED BY THE FEDERAL EMERGENCY
- 4. MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
 - A. NEW YORK STATE DEPARTMENT OF TRANSPORTATION "STANDARD
 - SPECIFICATIONS", 2002; AS SUPPLEMENTED.

 B. CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY
- SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.

 C. CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
- D. CURRENT MANUFACT URER SPECIFICATIONS, STANDARDS, AND REQUIREMEN
- STEWART AVENUE. WATER MAIN SIZE IS REFERENCED FROM INFORMATION PROVIDED BY THE TOWN OF NEWBURGH WATER DEPARTMENT. PROPOSED WATER MAIN EXTENSION AND FIRE HYDRANT LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL, AND AMERICAN WATERWORKS ASSOCIATION STANDARDS. PIPE MATERIALS SHALL BE CEMENT LINED DUCTILE IR ON PIPE, CLASS 52, WITH ASPHALTIC EPOXY TYPE COATING. WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM 4 FEET OF COVER FROM THIS TOP OF PIPE TO THE PROPOSED GRADE.
- 7. SANITARY SEWER SERVICE SHALL BE PROVIDED BY GRAVITY EXISTING SEWER MAINS ON-SITE. THE GRAVITY MAIN WILL TIE INTO THE SEWER OWNED AN OPERATED BY THE TOWN SEWER DEPARTMENT. PROPOSED SEWER MAIN EXTENSIONS AND MANHOLE LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL, ACCORDING TO MUNICIPAL AND ORANGE COUNTY COUNTY HEALTH DEPARTMENT REGULATIONS. PIP MATERIALS SHALL BE PVC SDR-35, EXCEPT AS NOTED OTHERWISE ON THE PLANS. EXCEP WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE MUNICIPALITY OR UTILITY AUTHORITY, SEWER LINES, INCLUDING FORCE MAINS AND LATERALS, SHALL BE INSTALL
- 8. SANITARY SEWERS AND STORM DRAINAGE PIPES SHALL BE SEPARATED FROM WATER MAINS BY AT LEAST 10 FEET HORIZONTALLY. IF SUCH SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SANITARY SEWER AT LEAST 18 INCHE BELOW THE BOTTOM OF THE WATER MAIN. WHERE APPROPRIATE SEPARATION IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE-IRON-PIPE USING MECHANICAL OR SLIP ON JOINTS, FOR A DISTANCE OF 10 FEI ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS ARE AS FAR AWAY AS POSSIBLE FROM THE WAT
- GAS, ELECTRIC, LIGHTING, CABLE TELEVISION, AND ELECTRICAL SERVICE PLANS, IF
 REQUIRED, SHALL BE PREPARED BY THE RESPECTIVE UTILITY COMPANIES THAT SERVICE
 THE AREA PRIOR TO SITE CONSTRUCTION AND SHALL BE INSTALLED PER ORDINANCE
 REQUIREMENTS.
- 10. TELEPHONE, ELECTRIC, AND GAS LINES WILL BE INSTALLED UNDERGROUND. CROSSIN OF PROPOSED PAVEMENTS WILL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT BASE COURSE.
- 11. UTILITY RELOCATIONS SHOWN HEREON, IF ANY, ARE FOR INFORMATIONAL PURPOSE ONLY AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANY/AUTHORITIES.
- 12. STORM SEWERS SHALL BE CLASS III (OR HIGHER IF NOTED) REINFORCED CONCRETE PIPE (RCP) WITH "O" RING GASICETS, HIGH DENSITY POLYEHTYLENE PIPE (HDPE) OR APPROVED EQUAL AS NOTED. PROPER, PIPE COVERAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE
- 13. REFUSE AND RECYCLABLES SHALL BE AS SHOWN OF THE PLAN AND AS DEEMED ACCEPTABLE BY THE TOWN OF NEWBURGH.
- 14. TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 15. THIS IS A SITE DEVELOPMENT PLAN AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON IS NOT A SURVEY
- 6. BUILDING FOOTPRINT DIMENSIONS SHOWN HERON ARE APPROXIMATE. FINAL BUILDING FOOTPRINT DIMENSIONS FOR EACH BUILDING SHALL BE FURNISHED ON THE INDIVIDUAL PLOT PLANS/ARCHITECTURAL PLANS AT THE TIME OF APPLICATION FOR A BUILDING PERMIT. ALL STRUCTURES SHALL CONFORM TO THE APPROVED BULK ZONING REQUIREMENTS.
- 17. DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
- 18. THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED, ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER AND/OR MUNICIPALITY. CONSTRUCTION ON SITE SHALL BE IN COMPLIANCE WITH SITE PLANS APPROVED BY THE TOWN PLANNING BOARD.
- 9. EXISTING UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTIONS, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS, AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE UNDER SIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENIDER THE DESIGNS HEREON INAPPROPRIATE OR
- 20. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.
- 21. THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS IN THIS SET.
- 22. INFORMATION SHOWN HEREON IS INCORPORATED WITH THE CONTENTS OF THE FOLLOWING REPORTS":
 "STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR 18 ROUTE 17K
- LLC, PREPARED BY MASER CONSULTING, P.A. DATED MAY 2017.

 "LIMITED PHASE II REPORT/BUILDING B" PREPARED BY MASER CONSULTING P.A. FOR 18
- ROUTE 17 K LLC, DATED OCTOBER 27, 2016.

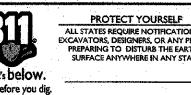
 "NOISE IMPACT EVALUATION" PREPARED BY MASER CONSULTING DATED APRIL 28,
- 24. PROPERTY DESCRIPTION:
 TAX LOT: 97-1-21.2
- LOT SIZE: 97.8 ACRES
 ZONE: IB (INTERCHANCE BUSINESS)
- ZONE: IB (INTERCHANGE BUSINESS);
 PROPERTY LOCATION: 18 ROUTE 17K, NEWBURGH NY, 12550



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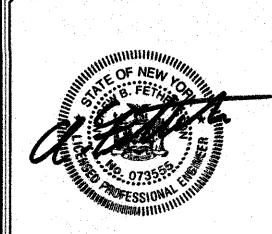
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ANDREW B. FETHERSTON
NEW YORK LICENSED PROFESSIONAL
ENGINEER - LICENSE NUMBER: 073555-1

SITE PLAN

FOR 18 ROUTE 17K, LLC

SECTION 97 BLOCK 1

TOWN OF NEWBURGH COUNTY OF ORANGE STATE OF NEW YORK



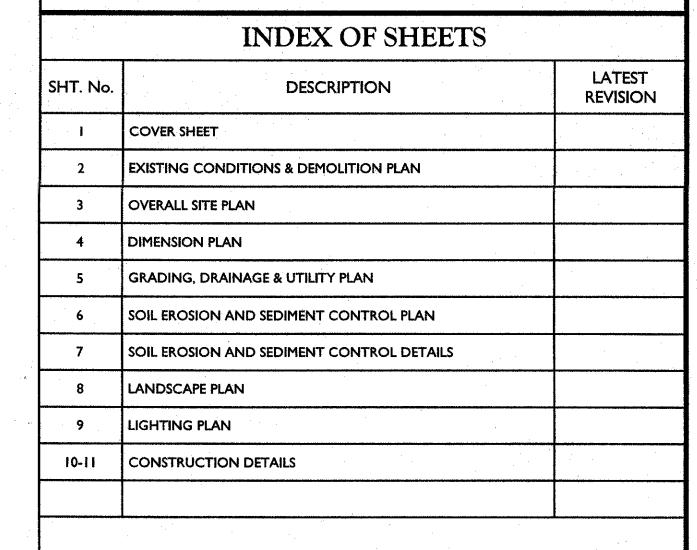
NEW WINDSOR OFFICE
555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553
Phone: 845.564.4495
Fax: 845.567.1025

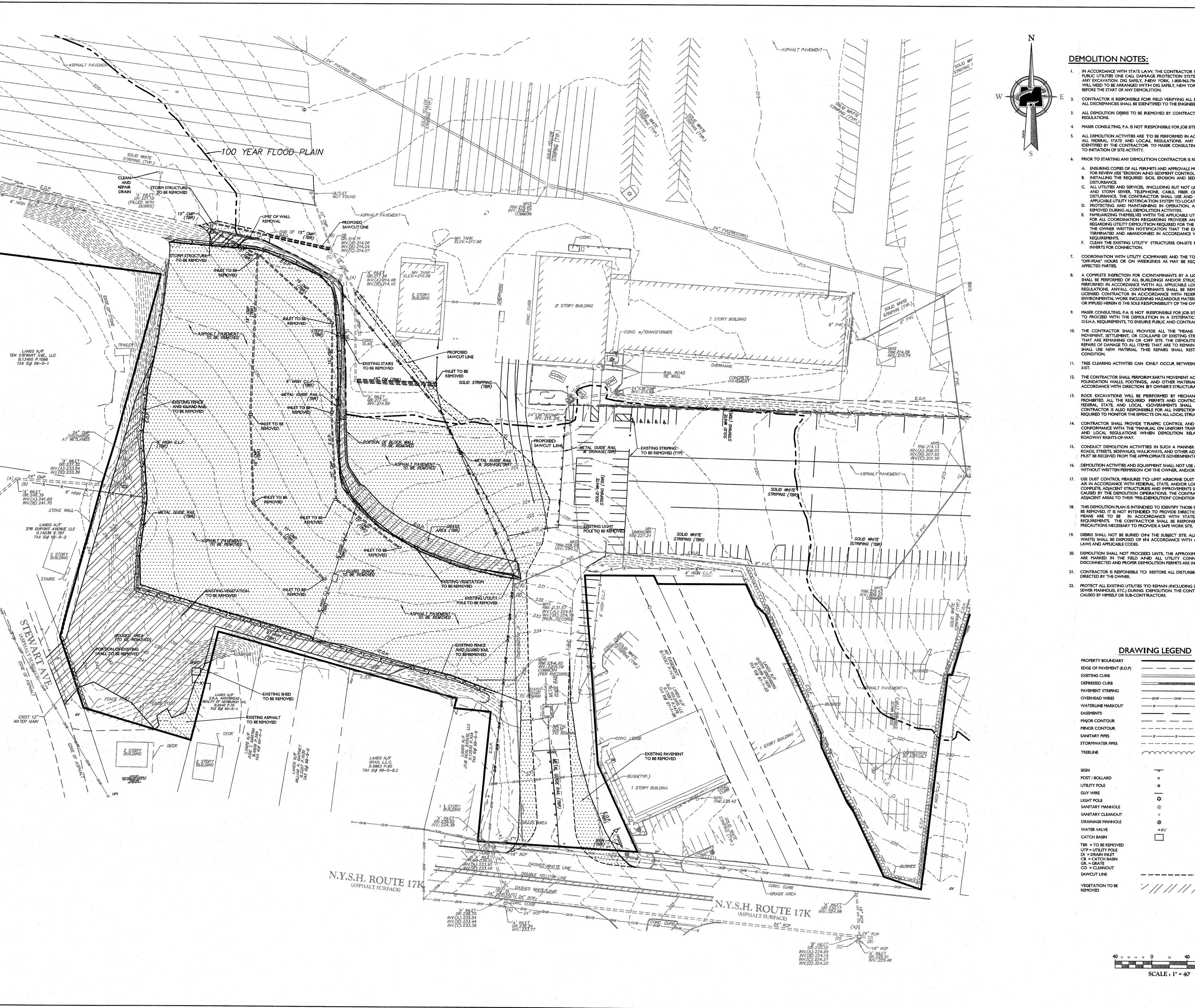
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COVER SHEET

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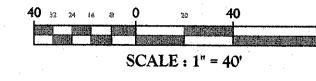


DEMOLITION NOTES:

- I. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION. DIG SAFELY, NEW YORK, 1-800-962-7962 OR 811. A PRE-DEMOLITION CONFERENCE WILL NEED TO BE ARRANGED WITH DIG SAFELY, NEW YORK AND MUST BE HELD A MINIMUM OF 7 DAYS BEFORE THE START OF ANY DEMOLITION.
 - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
 - ALL DEMOLITION DEBRIS TO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- 4. MASER CONSULTING, P.A. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION.
- ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS, AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO MASER CONSULTING, P.A. IN WRITING FOR RESOLUTION PRIOR
- 6. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:
- A. ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW (SEE "EROSION AND SEDIMENT CONTROL PLAN," THIS DRAWING SET). B. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE
- C. ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
- D. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES. E. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION
- REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY
- F. CLEAN THE EXISTING UTILITY STRUCTURES ON-SITE PRIOR TO CONSTRUCTION AND VERIFY THE INVERTS FOR CONNECTION
- 7. COORDINATION WITH UTILITY COMPANIES AND THE TOWN OF NEWBURGH REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE
- 8. A COMPLETE INSPECTION FOR CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY, SHALL BE PERFORMED OF ALL BUILDINGS AND/OR STRUCTURES PRIOR TO REMOVAL. SAME SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ANY/ALL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK INCLUDING HAZARDOUS MATERIAL, SOILS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS THE SOLE RESPONSIBILITY OF THE OWNER'S ENVIRONMENTAL CONSULTANT.
- MASER CONSULTING, P.A. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION, CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE O.S.H.A. REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- 10. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION
- 11. TREE CLEARING ACTIVITIES CAN ONLY OCCUR BETWEEN THE DATES OF OCTOBER 1ST AND MARCH
- 12. THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
- 13. ROCK EXCAVATIONS WILL BE PERFORMED BY MECHANICAL MEANS ONLY. USE OF EXPLOSIVES IS PROHIBITED. ALL THE REQUIRED PERMITS AND CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING, THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES, AS APPLICABLE.
- 14. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
- 15. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
- 16. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
- 17. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS, AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADIACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
- 18. THIS DEMOLITION PLAN IS INTENIDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL O.S.H.A. AND OTHER SAFETY
- 19. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
- 20. DEMOLITION SHALL NOT PROCEED UNTIL THE APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE MARKED IN THE FIELD AND ALL UTILITY CONNECTIONS ARE SUITABLY SHUT OFF AND DISCONNECTED AND PROPER DEMOLITION PERMITS ARE IN PLACE WITH THE TOWN.
- 21. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DISTURBED SITE AREAS TO ORIGINAL CONDITION AS
- 22. PROTECT ALL EXISTING UTILITIES TO REMAIN (INCLUDING DRAINAGE STRUCTURES, HYDRANTS, VALVES, SEWER MANHOLES, ETC.) DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIMSELF OR SUB-CONTRACTORS.

DRAWING LEGEND

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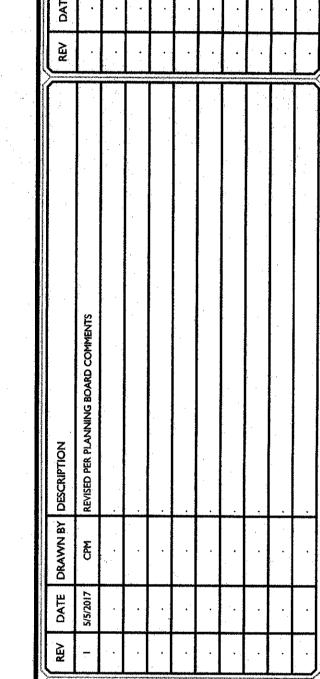
Office Locations: ■ Albany, NY
■ Chestnut Ridge, NY
■ New Windsor, NY ■ Hamilton, N■ Marmora, N ■ Hawthorne, NY ■ Lehigh Valley, PA■ Exton, PA Mt. Arlington, Mt. Laurel, NJ ■ Philadelphia, PA ■ Sterling, VA ■ Norfolk, VA ■ Albuquerque, NM

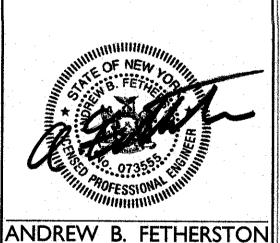
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NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER: 073555-1

SITE PLAN

18 ROUTE 17K, LLC

SECTION 97 BLOCK 1 LOT 21.2

TOWN OF NEWBURGH COUNTY OF ORANGE STATE OF NEW YORK

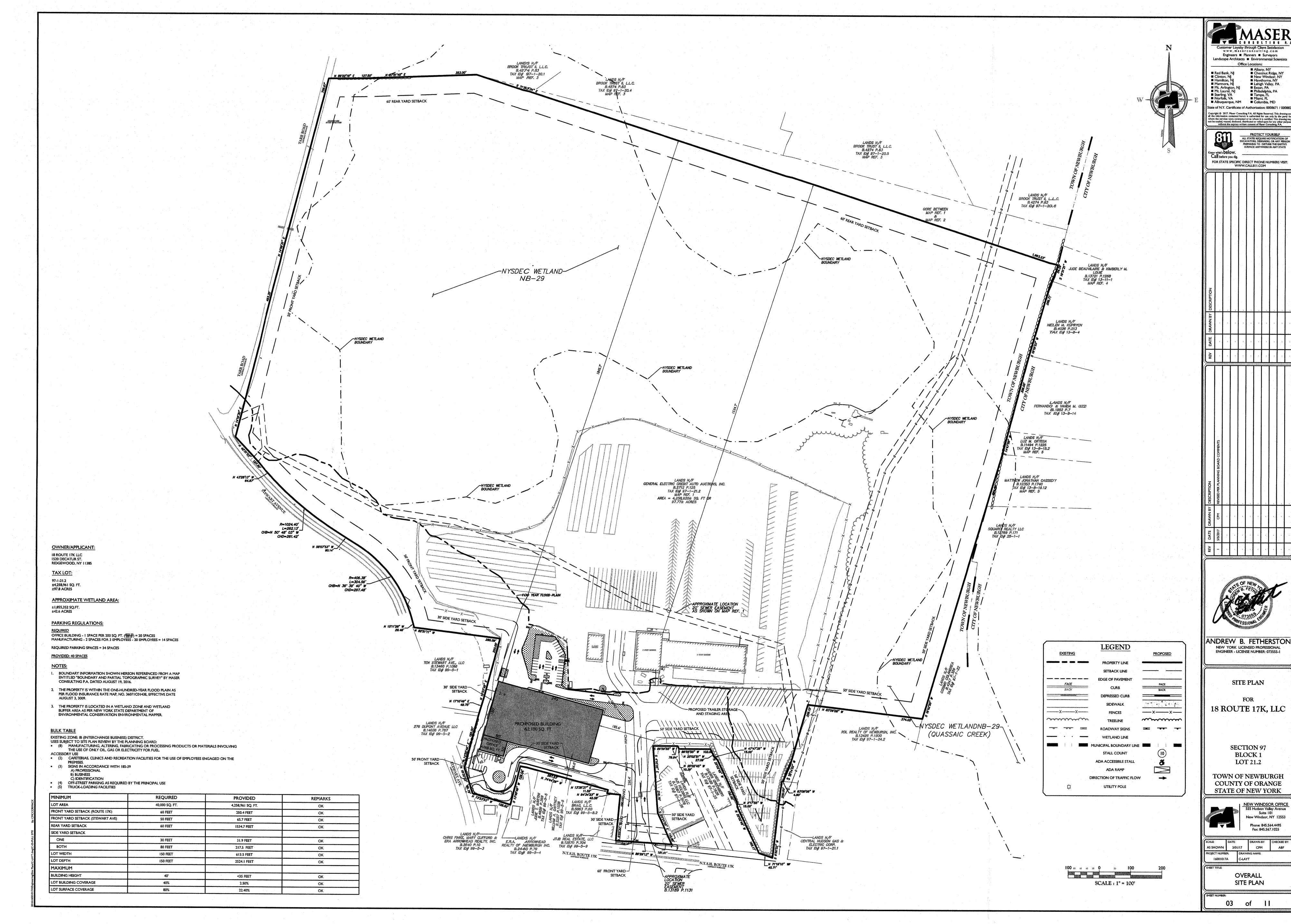


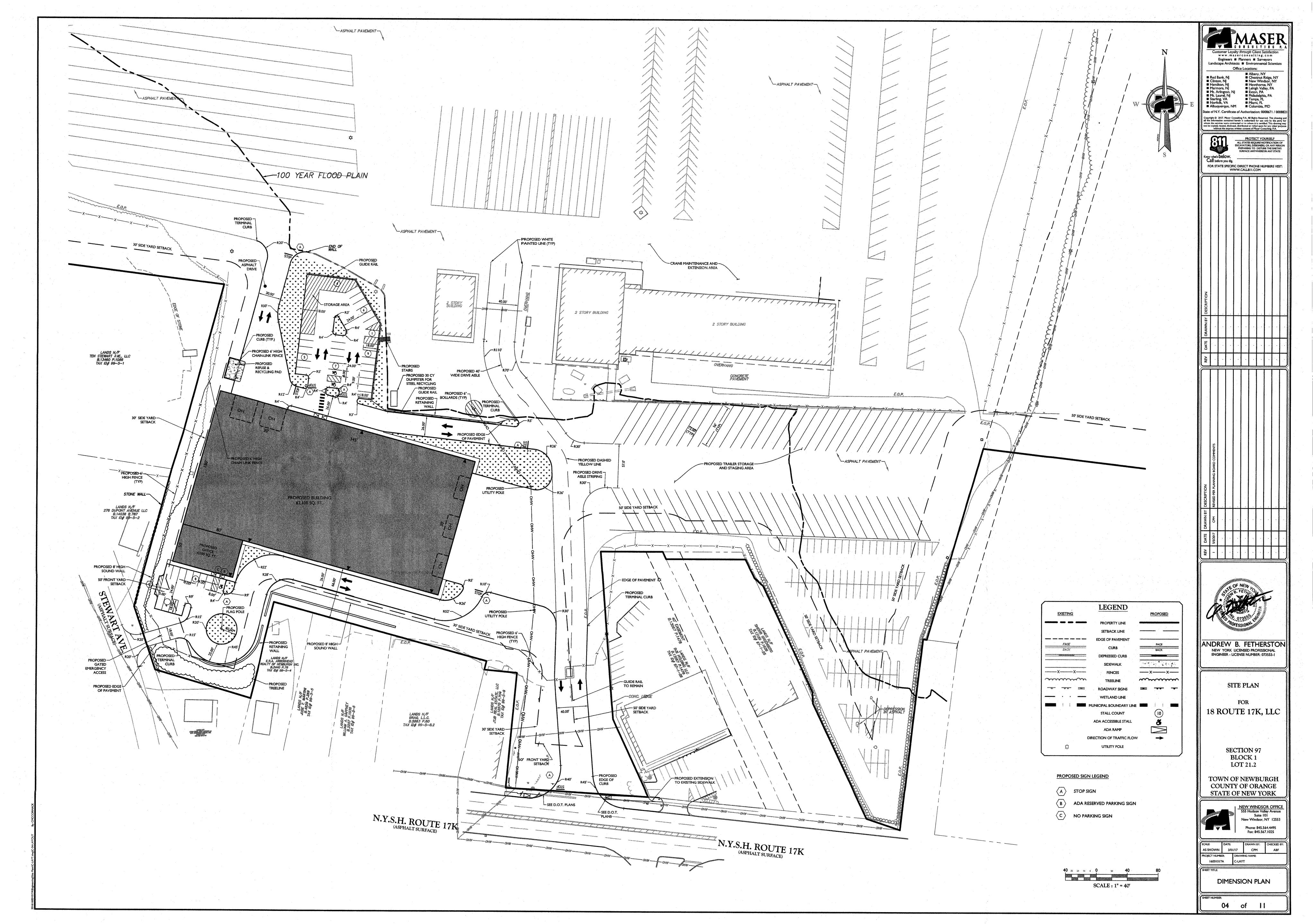
Suite 101 New Windsor, NY 12553 Phone: 845.564.4495 Fax: 845.567.1025

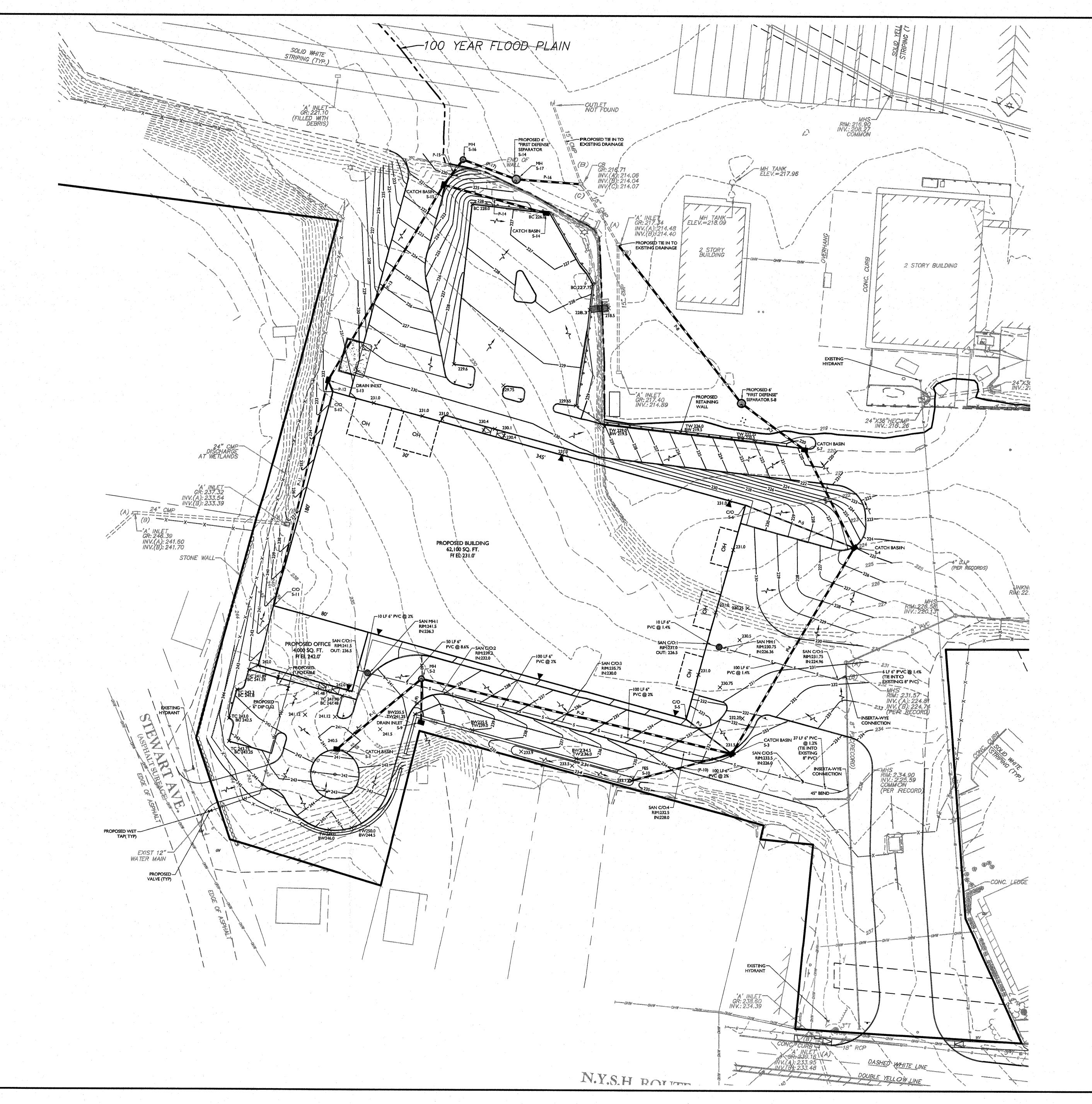
AS SHOWN 3/01/17 CPM
PROJECT NUMBER: DRAWING NAME: 16001017A

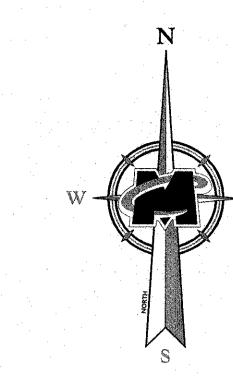
EXISTING CONDITIONS & DEMOLITION PLAN

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		EAST Dr Structure				
Structure I.D.	Description	Rim/Grate	Pipes (In)	Inverts (In)	Pipes (Out)	Inverts (Out
S-I	30 in. x 48 in. Catch Basin	240.50			15" HDPE	237.00
S-2	48 in. dia. CYLINDER MH	240.00	15" HDPE 12" HDPE	235.00 232.00	I5" HDPE	232.75
S-3	30 in. x 48 in. Catch Basin	231.50	15" HDPE 8" HDPE 12" HDPE	226.00 224.00 224.00	15" HDPE	224.00
S-4	30 in. x 48 in. Catch Basin	225.25	15" HDPE 8" HDPE	219.00 222.75	15" HDPE	218.75
S-5	8 in. Clean Out	229.72			8" HDPE	228.00
S-6	8 in. Clean Out	230.72			8" HDPE	229.00
S-7	30 in. x 48 in. Catch Basin	219.50	15" HDPE	216.25	15" HDPE	216.25
S-8	72 in. dia. CYLINDER MH	219.36	15" HDPE	215.25	15" HDPE	215,25
S-9	30 in. x 48 in. Drain Inlet	235.60			12" HDPE	233.50
S-10	18 inch Flared End Section 48 × 98	230.90			12" HDPE	230.10

	e de la companya de l	Structure Table									
	Description	Rim/Grate	Pipes (In)	Inverts (In)	Pipes (Out)	ln					
_	12 in. Clean Out	241.22			12" HDPE						
	12 in. Clean Out	231.72			12" HDPE						
						_					

Structure I.D.	Description	Rim/Grate	Pipes (In)	Inverts (In)	Pipes (Out)	inverts (Out)
S-11	12 in. Clean Out	241.22			12" HDPE	239.50
S-12	12 in. Clean Out	231.72			12" HDPE	229.00
S-13	30 in. × 48 in. Drain Inlet	231.50	12" HDPE 12" HDPE	227.00 227.75	15" HDPE	227.00
S-14	30 in. x 48 in. Catch Basin	226.00			15" HDPE	221.50
S-15	30 in. x 48 in. Catch Basin	220.50	15" HDPE 15" HDPE	217.20 217.25	15" HDPE	217.00
S-16	48 in. dia. CYLINDER MH	219.00	15" HDPE	215.75	15" HDPE	215.75
S-17	72 in. dia, CYLINDER MH	218.61	15" HDPE	215.25	15" HDPE	215.25

	EAST Drainage Pipe Table							
Pipe I.D.	Description	Length	Invert Up	Invert Dn	Slope			
P-1	15"HDPE	89'	237.00	235.00	2.24%			
P-2	15"HDPE	256'	232.75	226,00	2.63%			
P-3	8"HDPE	46'	228.00	224.00	8.63%			
P-4	15"HIDPE	194'	224.00	219.00	2.58%			
P-5	8"HDPE	94'	229.00	222.75	6.62%			
P-6	15"HDPE	89'	218.75	216.25	2.82%			
P-7	15"HDPE	64'	216.25	215.25	1.57%			
P-8	15"HDPE	161'	215.25	214.40	0.53%			
P-9	12"HDPE	35'	233.50	232.00	4.25%			
P-10	12"HDPE	84'	230.10	224.00	7.30%			

Pipe Table										
Pipe I.D.	Description	Length	Invert Up	Invert Dn	Slope					
P-11	12*HDPE	188'	239.50	227.75	6.25%					
P-12	12"HDPE	10'	229.00	227.00	19.77%					
P-13	15"HDPE	184'	227.00	217.20	5.33%					
P-14	15"HDPE	86'	221.50	217.25	4.93%					
P-15	15"HDPE	26'	217.00	215.75	4.83%					
P-16	15"HDPE	50'	215.25	214.10	2.29%					
P-17	15"HDPE	46'	215.75	215.25	1.09%					

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ANDREW B. FETHERSTON

NEW YORK LICENSED PROFESSIONAL
ENGINEER - LICENSE NUMBER: 073555-1

SITE PLAN

18 ROUTE 17K, LLC

SECTION 97 BLOCK 1

LOT 21.2 TOWN OF NEWBURGH COUNTY OF ORANGE

STATE OF NEW YORK NEW WINDSOR OFFICE

555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553

Phone: 845.564.4495 Fax: 845.567.1025

GRADING, DRAINAGE AND UTILITY PLAN

5 of 11

SCALE: 1" = 30'

TOP OF DEPRESSED CURB ELEVATION × TDC 29.0

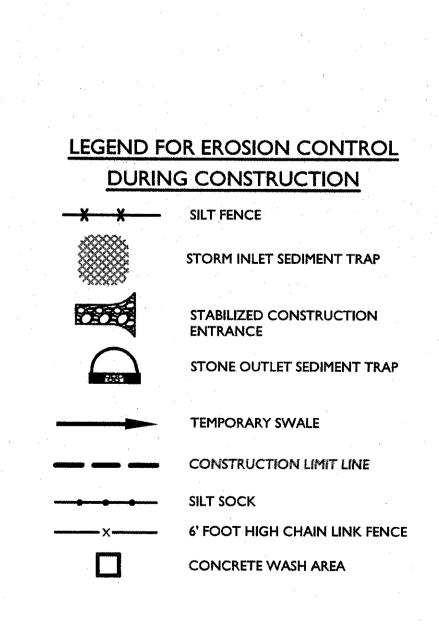
- I. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES AND SEVEN (7) DAYS FOR DISTURBANCES GREATER THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED.
- 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- 5. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY GRADING.
- 6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
- 8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT ALL CONSTRUCTION DRIVEWAYS, BEFORE INITIAL SITE DISTURBANCE.
- 9. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- 10. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- 11. CONDUIT OUTLET PROTECTION MUST BE REVIEWED & SUPPLEMENTED AT ALL OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- 12. UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- 13. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- 14. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
- 15. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- 16. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN.
- 17. CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCTION MEETING. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXITING THE PROJECT SITE. THE LOCATION SHALL BE IN A PRACTICAL, CLEARLY DELINEATED, AREA AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 18. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE LATEST VERSION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 19. IF SOIL ACTIVITIES HAVE BEEN TEMPORARILY SUSPENDED, ie. WINTER SHUTDOWN, ALL DISTURBED AREAS MUST BE TEMPORARILY STABILIZED AND ONCE A MONTH INSPECTIONS CAN OCCUR. THE GENERAL PERMIT CAN BE REFERENCED FOR FURTHER INFORMATION.
- 20. ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY.
- 21. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.
- 22. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THESE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE PROJECT ENGINEER.
- 23. ALL TEMPORARY, STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED, WHEN ALL CONSTRUCTION ACTIVITY IDENTIFIED IN THE SWPPP HAS BEEN COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION** AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE SWPPP AND ARE OPERATIONAL.

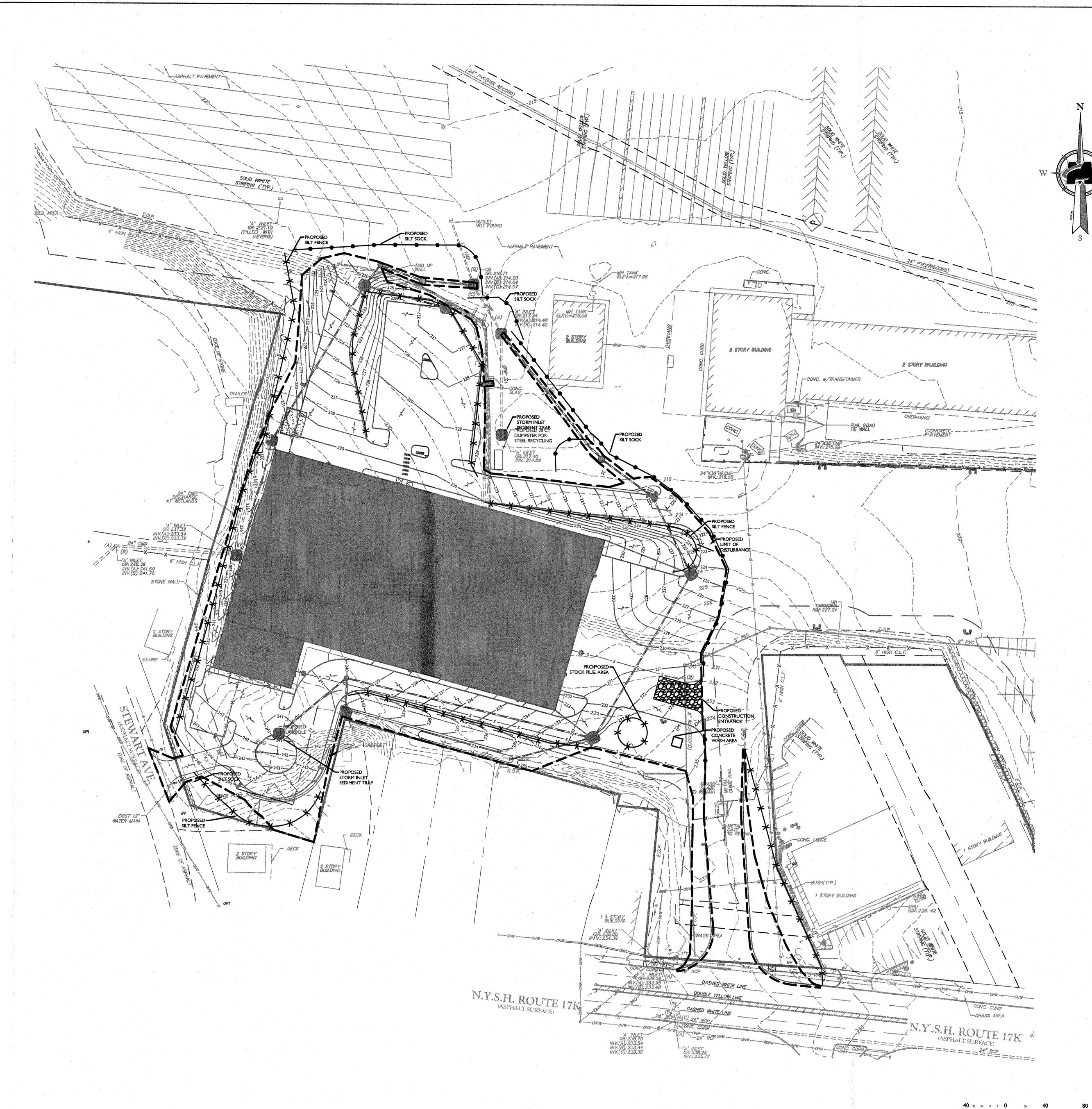
**FINAL STABILIZATION - MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.

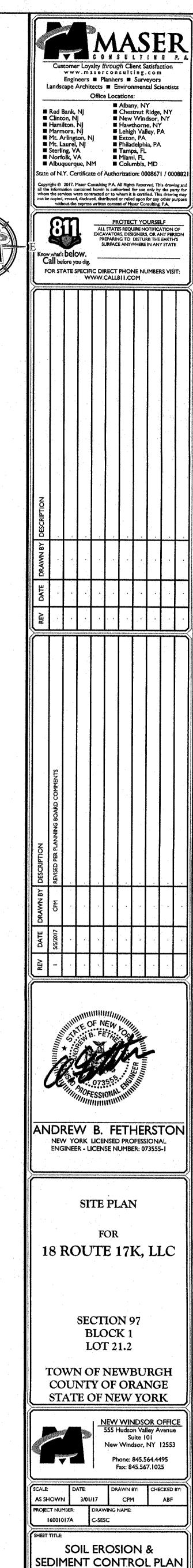
MAINTENANCE PLAN DURING CONSTRUCTION:

INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN CONFORMANCE WITH GP-0-15-002. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THE PROJECT. THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 25% OF ITS' CAPACITY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 6" DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE LANDSCAPE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

NOTE: DURING THE CONSTRUCTION OF A PHASE, EACH SUBSEQUENT PHASE WILL HAVE BEEN CAPPED AND STABILIZED WITH DENSE GRASS COVER.







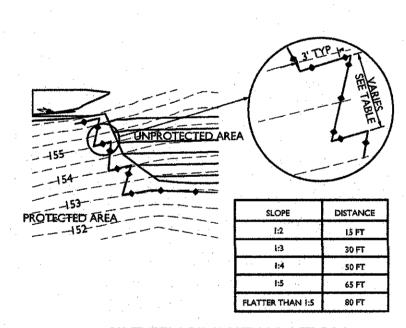
6 of 11

SCALE: 1" = 40'

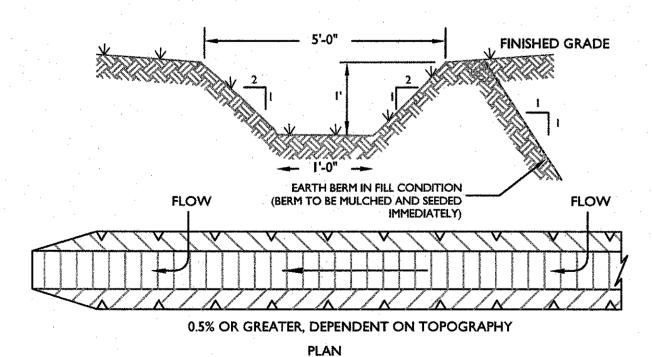
PHASE I (INCLUDES CONSTRUCTION OF A 66,100 SQ. FT. BUILDING AND ASSOCIATED SITE WORK IN THE SOUTHWEST CORNER OF THE EXISTING PARKING AREA):

DISTURBANCE AREA = 4.572 ACRES NOTE REGARDING TEMPORARY STORAGE: AS THIS PHASE OF CONSTRUCTION IS GENERALLY ENCOMPASSED BY IMPERVIOUS PARKING AREAS, TEMPORARY SEDIMENT BASIN STORAGE IS NEITHER PRACTICAL NOR APPLICABLE AS DISTURBANCE WILL BE AT GRADES BELOW THE SURROUNDING IMPERVIOUS AREAS. CARE SHOULD BE GIVEN TO GOOD HOUSEKEEPING TECHNIQUES AND LIMIT SEDIMENT TRACKING AS MUCH AS POSSIBLE.

- I. CONSTRUCT AND MAINTAIN THE CONSTRUCTION ENTRANCE AND STAGING AREAS AS SHOWN WITHIN THIS PHASE AS SHOWN ON THE PLANS, USING CRUSHED STONE IN KIND WITH CONSTRUCTION ENTRANCE BEDDING AS SHOWN ON THE DETAIL.
- 2. CONTRACTOR SHALL INSTALL SILT SOCK AND SILT FENCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
- 3. SILT FENCE AND/OR SILT SOCK SHALL BE INSTALLED ALONG THE PROPOSED CONSTRUCTION LIMITS; SILT FENCE SHALL BE USED IN GRASS AREAS WHILE THE SILT SOCK SHALL BE USED ON IMPERVIOUS SURFACES.
- 4. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT ALONG CONSTRUCTION LIMIT AND REMOVE PAVEMENT AND SUBBASE AS APPLICABLE TO THE IMMEDIATE SCOPE, CAREFUL TO LIMIT EXPOSED SEDIMENT BELOW THE PAVEMENT SUBBASE.
- 5. CONTRACTOR SHALL EXCAVATE FOR BUILDING FOUNDATION, DRIVE AISLE, PARKING AREA AS SHOWN.
- 6. CONTRACTOR SHALL INSTALL PROPOSED UTILITIES INCLUDING STORM SEWER, WATER MAIN AND SERVICES, SANITARY SEWER SERVICES, DRAIN INLETS/CATCH BASINS. AND ANY SUBSURFACE UTILITIES IN ADVANCE OF INSTALLING CONCRETE CURB, SIDEWALK AND CURB ISLANDS.
- 7. CONTRACTOR SHALL IMPORT/EXPORT NECESSARY MATERIAL TO ROUGH GRADE SITE AND CONSTRUCT BUILDING PAD. NO FILL IS TO BE PLACED WITHIN THE LIMITS OF THE FLOODPLAIN. THE CONTRACTOR SHOULD CONTINUE WORK ON PROPOSED BUILDING AND AFTER COMPLETION OF BUILDING EXTERIOR, GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED. MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
- 8. THE PROJECT SITE MUST MEET FINAL STABILIZATION CRITERIA PRIOR TO REMOVING ALL EROSION AND SEDIMENT CONTROL DEVICES AND CLOSING OUT THE PROJECT. LITTER AND CONSTRUCTION DEBRIS SHALL BE REMOVED AS PRACTICAL THROUGHOUT THE LIFE OF THE PROJECT.
- a. <u>FINAL STABILIZATION</u> MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED: OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.
- 9. THE GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES STATES THAT IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS.
- 10.ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AS MAY BE NECESSARY, REQUIRED AND/OR REQUESTED BY AUTHORITIES, TO PREVENT THE INCIDENTAL DISCHARGE OF SILT LADEN RUNOFF FROM ENTERING A WATER COURSE OR A DRAINAGE SYSTEM. THE GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES STATES THAT IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS.
- II.PHASE I MUST BE STABILIZED PRIOR TO REMOVING ALL EROSION AND SEDIMENT CONTROL DEVICES AND PROGRESSING TO NEXT PHASE. LITTER AND CONSTRUCTION DEBRIS SHALL BE REMOVED AS PRACTICABLE PRIOR TO



SILT FENCE INSTALLATION (WHEN NOT PARALLEL TO CONTOURS)



EROSION; INTERMITTENTLY ACROSS DISTURBED AREAS, TO SHORTEN OVERLAND FLOW DISTANCES; BELOW DISTURBED AREAS. TO DIVERT SEDIMENT-LADEN WATER TO A SEDIMENT TRAPPING DEVICE: AND TO SAFELY TRANSPORT RUNOFF ALONG ROADWAYS. * WHERE SWALE TRAVERSES CONSTRUCTION VEHICLE PATH, DEPTH TO BE 6". SEE PLAN FOR

LOCATION

INSTALLATION NOTES

- ALL SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY
- 4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE. 5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE. INSPECTION AND MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
- 9. STABILIZATION SHALL BE SEED AND STRAW MULCH.

TEMPORARY SWALE

GENERAL SEEDING NOTES

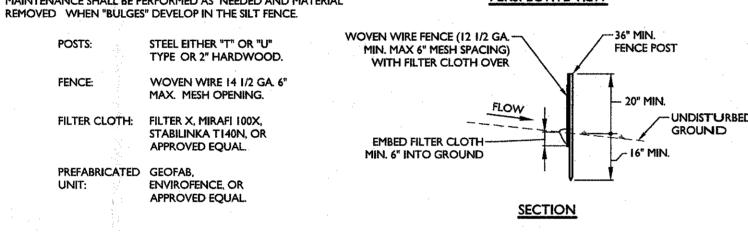
I. TEMPORARY SEEDING SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED AT A RATE OF I.O LBS. PER 1000 SF OR SPRING OATS APPLIED AT A RATE OF 2.0 LBS. PER 1000 SF. TEMPORARY SEEDING SHALL BE MULCHED AND MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH PERMANENT SEEDING.

2. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL - OPTIMUM SEEDING DATES ARE BETWEEN APRIL I AND MAY 31: AND AUGUST 16 AND OCTOBER 15.

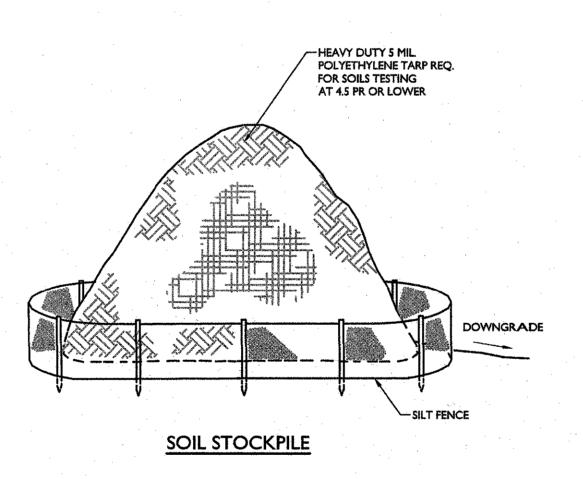
> MIXTURE - HARD FESCUE 120 LBS/ACRE PERENNIAL RYE GRASS 30 LBS/ACRE KENTUCKY BLUE GRASS (BLEND) 40 LBS/ACRE MIXTURE - TALL FESCUE 160 LBS/ACRE PERENNIAL RYE GRASS (BLEND) 20 LBS/ACRE KENTUCKY BLUE GRASS (BLEND) 20 LBS/ACRE

- 3. PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT A RATE OF 150# PER ACRE, SLOPED AREA TO BE COVERED WITH MULCH AS INDICATED IN NOTE 5.
- 4. FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE IN COMPLIAN CE WITH THE LATEST NYSDEC REGULATIONS. A SOIL TEST PRIOR TO FERTILIZER APPLICATION IS RECOMMENDED.
- 5. IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6.
- 6. MULCH TO CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL. MULCH WILL BE SPREAD AT RATES OF 90 TO 115 LBS, PER 1000 SF AND ANCHORED WITH A MULCH ANCHORING TOOL OR LIQUID MULCH BINDER, AND SHALL BE PROVIDED ON ALL SEEDINGS. HYDROMULCH SHALL ONLY BE USED DURING OPTIMUM GROWING SEASONS.
- 7. WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC. SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTILL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
- 8. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
- 9. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

10' MAX. C. TO C. -36" MIN. FENCE POSTS, DRIVEN MIN. 16" INTO GROUND CONSTRUCTION NOTES FOR FABRICATED SILT FENCE HEIGHT OF FILTER I. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. 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. PERSPECTIVE VIEW 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL

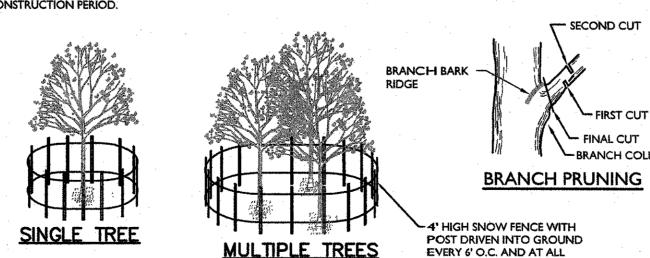


WIRE REINFORCED SILT FENCE



TREE PROTECTION NOTES:

- TREE PROTECTION FENCING TO BE INSTALLED ALONG THE DISTURBANCE LIMIT LINE HEREVER EROSION CONTROL FENCING IS NOT PROPOSED.
- THERE SHALL BE NO STORAGE OF EQUIPMENT OR MATERIALS OUTSIDE CLEARING LIMITS. NO EQUIPMENT IS PERMITTED OUTSIDE CLEARING LIMITS.
- THE FENCING SHOULD REMAIN IN GOOD CONDITION FOR THE DURATION OF THE CONSTRUCTION PERIOD.



CHANGES OF DIRECTION.

EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY

AFTER EXCAVATION IS COMPLETE, ROOTS SHALL BE PRUNED TO GIVE A

TREE INJURY. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A

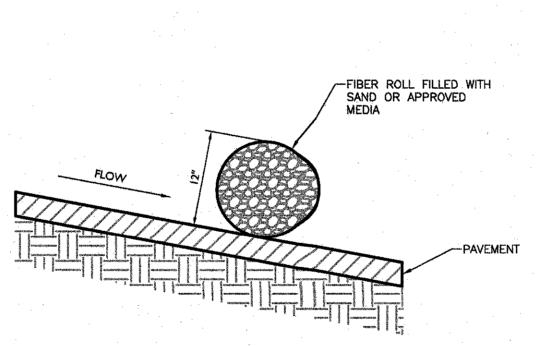
DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT

I. PROTECTIVE FENCING IS TO BE ERECTED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION 8. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE DRIP LINE OF THE TREE BRANCHES. AS DIRECTED BY THE LANDSCAPE ARCHITECT, SOIL CONSERVATION DISTRICT AND/OR MUNICIPAL ENGINEER. 9. DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. 2. NO CONSTRUCTION ACTIVITY IS PERMITTED WITHIN THE PROTECTIVE FENCING. 3. AS CONSTRUCTION NEARS COMPLETION THE FENCING CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED WILL BE REMOVED AS DIRECTED. 4. AT THE COMPLETION OF CONSTRUCTION ALL TREES

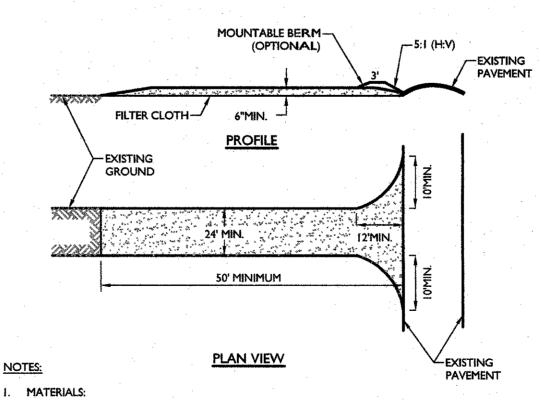
BUILDING OPERATIONS.

PROFESSIONAL FORESTER OR CERTIFIED TREE EXPERT. WILL BE PRUNED AS NECESSARY TO CORRECT ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY. D. TREE LIMB REMOVAL WHERE NECESSARY, WILL BE DONE AS NATURAL 5. GENERAL MECHANICAL DAMAGE - SEE DETAIL ABOVE FOR TARGET PRUNING TO REMOVE THE DESIRED BRANCH COLLAR. THERE SHOULD CORRECT PLACEMENT OF TREE PROTECTION. BE NO FLUSH CUTS. FLUSH CUTS DESTROY A MAJOR DEFENSE SYSTEM OF THE 6. BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO TREE, NO TREE PAINT SHALL, BE APPLIED, ALL CUTS SHALL BE MADE AT THE PREVENT MECHANICAL INJURY, FENCING OR OTHER BARRIER OUTSIDE EDGE OF THE BRAINCH COLLAR, CUTS MADE TOO FAR BEYOND THE BRANCH COLLAR MAY LEAD TO EXCESS SPROUTING, CRACKS AND ROT. SHOULD BE INSTALLED AT THE DRIP LINE OF THE TREE REMOVAL OF A "V" CROTCH SHOULD BE CONSIDERED FOR FREE STANDING SPECIMEN TREES TO AVOID FUTURE SPLITTING DAMAGE. 7. BOARDS WILL NOT BE NAILED TO TREES DURING

TEMPORARY TREE PROTECTION DETAIL



SILT SOCK INSTALLATION ON PAVEMENT



- STONE SIZE USE 2" STONE, OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT LENGTH - NOT LESS THAN 50 FEET • THICKNESS - NOT LESS THAN (6) INCHES.
- 2. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. 3. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTING
- BERM WITH 5:1 SLOPES WILL BE PERMITTED. 4. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED,
- DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND
- WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. 6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

STABILIZED CONSTRUCTION ENTRANCE

THIS PLAN IS FOR EROSION CONTRO **PURPOSES ONLY**

3/4" STONE

INSTALLATION NOTES

1. EXCAVATE A 6 INCH x 6 INCH TRENCH, OFFSET APPROXIMATELY 2 FEET FROM THE INLET

3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES

4. LAY THE TOE-IN FLAP OF FABRIC ON TO THE UNDISTURBED BOTTOM OF THE TRENCH,

6. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS

7. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.

WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).

FROM THE TRENCH BOTTOM.

USE SHORELOCK STAPLES -3.4 STAPLES PER S.Y. (SEE STAPLE PATTERN

BALE CONFIGURATION

DETAIL NOTES:

I. FACE SIGN TOWARDS NEAREST STREET OR

CONCRETE WASHOUT SHALL BE LOCATED

FROM DRAINAGE INLETS OR WATERCOURSES

BEHIND THE CURB AND 50 FT. MINIMUM

ACCESS POINT.

2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM)

BACKFILL THE TRENCH AND TAMP TIME SOIL, STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.

STORM INLET SEDIMENT TRAP

3.4 STAPLES PER SQ YD USING 6 IN, 11 GA. WIRE "U" STAPLES. 8 IN STAPLES AND LONGER MAY BE USED FOR LOOSE SOILS, 9 GA. STAPLES OR

HEAVIER MAY BE NECESSARY IN HARD

EROSION CONTROL

FERTILIZE

JUTE MATTING

PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF TOPSOIL, FERTILIZER,

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP x 6" WIDE TRENCH.

4. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP, USE A DOUBLE ROW OF

5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" (15 cm)

DEEP X 6" (15 cm) WIDE TRIENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED

THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" (15 cm) DEEP X 6" (15 cm)

WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

SLOPE STABILIZATION DETAIL

WASHOUT

SIGN

BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

STAGGERED STAPLES 4" APART TO SECURE BLANKETS.

8. EROSION CONTROL BLANKET SHALL BE JUTE MATTING.

3. ROLL BLANKETS IN DIRECTION OF WATER FLOW.

GRADED SIDE SLOPES

STRAW BALES

- 60 MIL POLYETHYLEN

STAKES OR #4 [-BARS

2-PER BALE TYP.

SECTION A-A

THIS SECTION REMOVED FOR

GRAPHICAL REPRESENTATION

CONTINUOUS

ONLY, STRAW BALE PERIMETER SHALL BE

OR ROCKY SOILS.

5. JOIN SECTIONS AS SHOWN ABOVE. SUPPLEMENT WITH GRAVEL, PILED AGAINST THE FENCE.

ROUGH GRADE

1:1 SLOPE

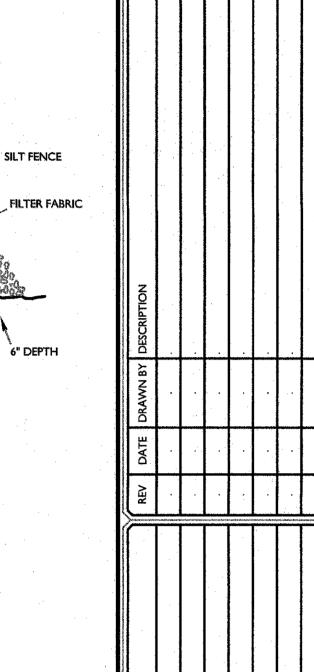
OR FLATTER

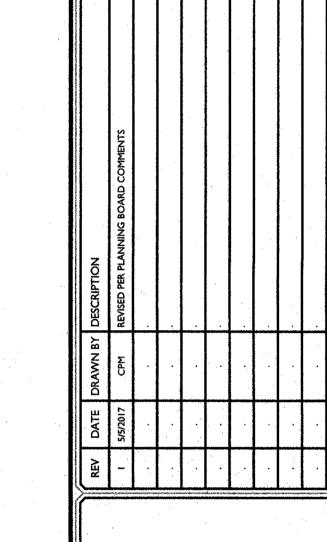


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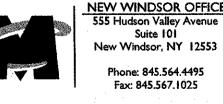
SITE PLAN

FOR 18 ROUTE 17K, LLC

> SECTION 97 BLOCK 1 LOT 21.2

TOWN OF NEWBURGH **COUNTY OF ORANGE**

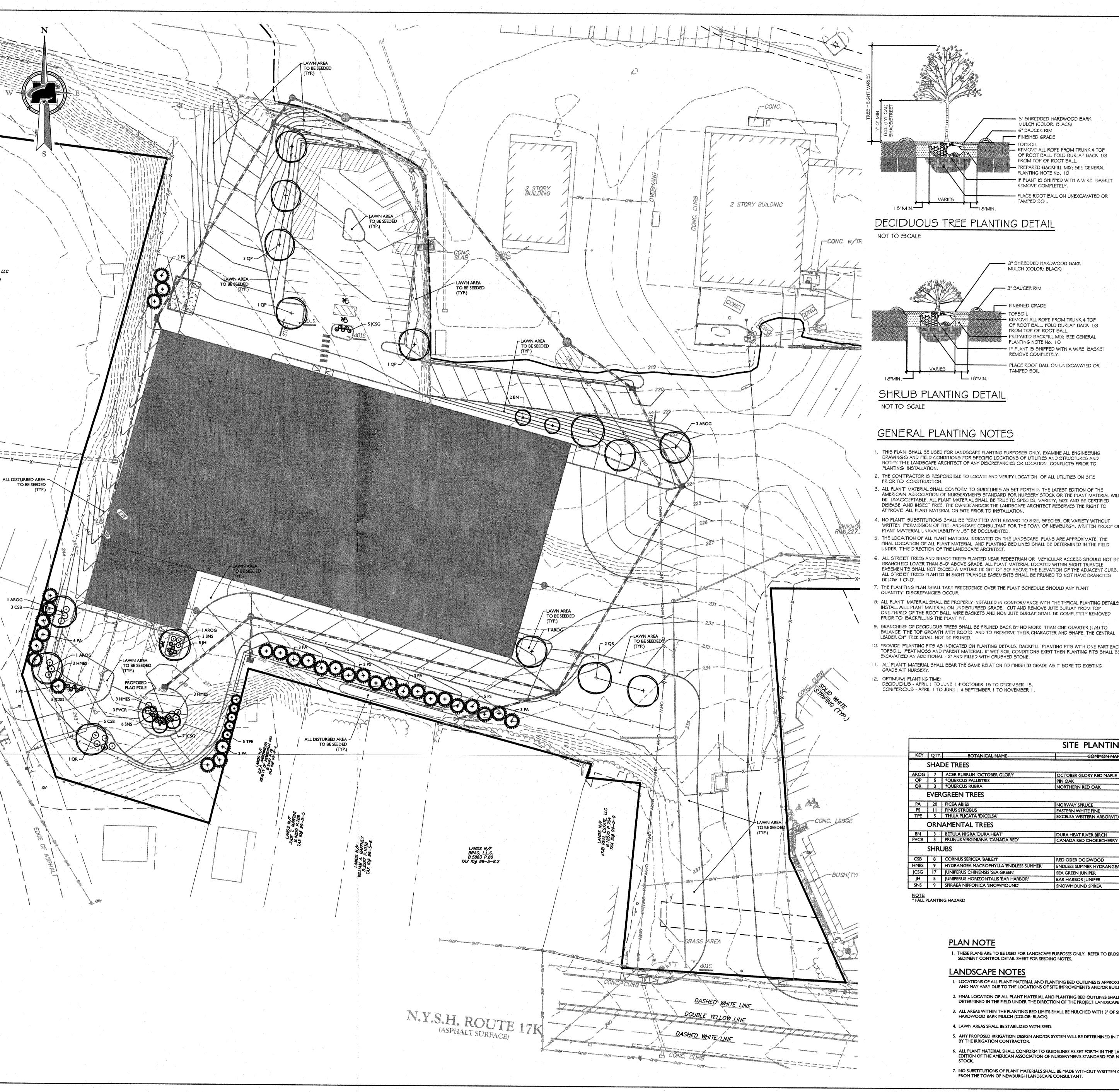
STATE OF NEW YORK Suite 101

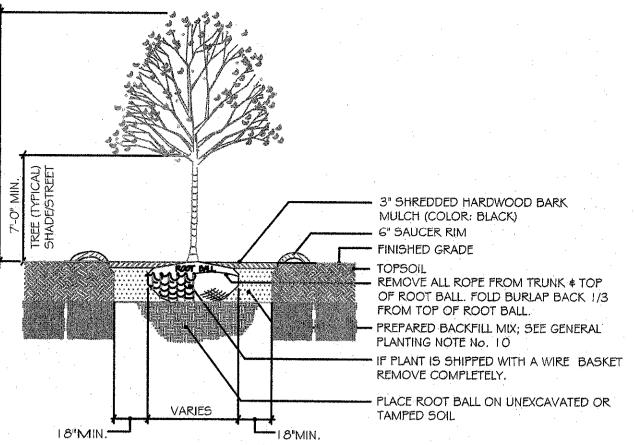


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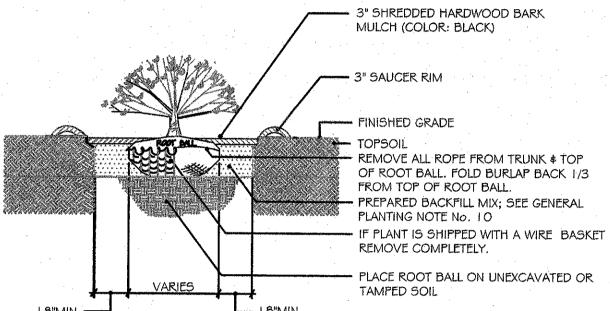
SOIL EROSION & SEDIMENT CONTROL DETAILS

CONCRETE WASHOUT





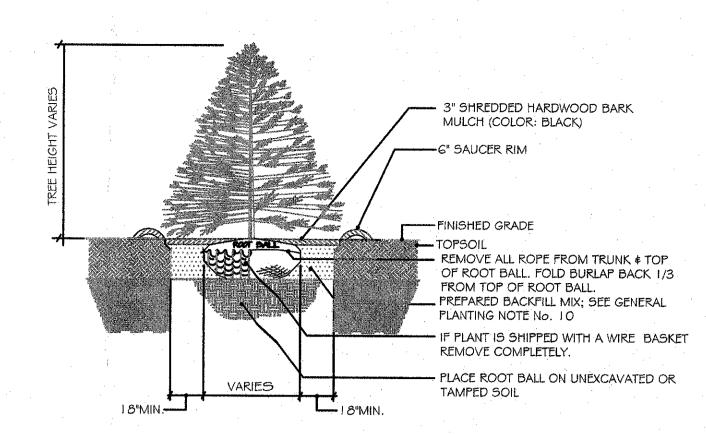
DECIDUOUS TREE PLANTING DETAIL



SHRUB PLANTING DETAIL

GENERAL PLANTING NOTES

- ! THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY. EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES AND STRUCTURES AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO
- 2. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY LOCATION OF ALL UTILITIES ON SITE
- 3. ALL PLANT MATERIAL SHALL CONFORM TO GUIDELINES AS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK OR THE PLANT MATERIAL WILL BE UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE. THE OWNER AND/OR THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIAL ON SITE PRIOR TO INSTALLATION.
- 4. NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARD TO SIZE, SPECIES, OR VARIETY WITHOUT WRITTEN PERMISSION OF THE LANDSCAPE CONSULTANT FOR THE TOWN OF NEWBURGH. WRITTEN PROOF OF PLANT MATERIAL UNAVAILABILITY MUST BE DOCUMENTED. 5. THE LOCATION OF ALL PLANT MATERIAL INDICATED ON THE LANDSCAPE PLANS ARE APPROXIMATE. THE
- FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED LINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT. S. ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 8'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN SIGHT TRIANGLE
- ALL STREET TREES PLANTED IN SIGHT TRIANGLE EASEMENTS SHALL BE PRUNED TO NOT HAVE BRANCHES
- THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
- 8. ALL PLANT MATERIAL SHALL BE PROPERLY INSTALLED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. CUT AND REMOVE JUTE BURLAP FROM TOP ONE-THIRD OF THE ROOT BALL. WIRE BASKETS AND NON JUTE BURLAP SHALL BE COMPLETELY REMOVED
- 9. BRANCHES OF DECIDUOUS TREES SHALL BE PRUNED BACK BY NO MORE THAN ONE QUARTER (1/4) TO BALANCE THE TOP GROWTH WITH ROOTS AND TO PRESERVE THEIR CHARACTER AND SHAPE. THE CENTRAL
- 10. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART EACH OF TOPSOIL, PEAT MOSS AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST THEN PLANTING PITS SHALL BE
- II. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING
- DECIDUOUS APRIL 1 TO JUNE 1 \$ OCTOBER 15 TO DECEMBER 15. CONIFEROUS - APRIL ! TO JUNE ! & SEPTEMBER ! TO NOVEMBER !



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EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

PLANT DETAIL NOTES

- I. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT, MULCH SHALL NOT TOUCH
- 2. PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.
- 3. WIRE BASKETS AND NON-JUTE BURLAP MUST BE ENTIRELY REMOVED FROM THE ROOT BALL. JUTE
- BURLAP MUST BE REMOVED FROM THE TOP 1/3 OF THE ROOT BALL. 4. DEPTH OF PLANT PIT SHALL BE INCREASED BY 12" WHEREVER POOR SOIL CONDITIONS OCCUR, WITH
- THE ADDITION OF LOOSE AGGREGATE. 5. CONTRACTOR SHALL PARTIALLY FILL WITH WATER A REPRESENTATIVE NUMBER OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT
- DOESN'T PERCOLATE, MEASURES MUST BE TAKEN TO ASSURE PROPER DRAINAGE BEFORE PLANTING. 6. PLANTING MUST BE GUARANTEED FOR TWO FULL GROWING SEASONS FROM THE TIME OF FINAL ACCEPTANCE BY THE TOWN LANDSCAPE CONSULTANT. CONTRACTOR SHALL REMOVE ALL WRAPPING AT
- THE END OF GUARANTEE PERIOD. 7. BACKFILL MIXTURE TO BE SPECIFIED BASED UPON SOIL TEST AND CULTURAL REQUIREMENTS OF PLANT
- 8. PRUNE DAMAGED AND CONFLICTING BRANCHES MAINTAINING NORMAL TREE SHAPE, NEVER CUT CENTRAL TRUNK OR LEADER.
- 13. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS
- 14. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWO YEARS AFTER THE DATE OF FINAL ACCEPTANCE. ANY PLANT MATERIAL THAT DIES WITHIN THAT TIME PERIOD SHALL BE REMOVED, INCLUDING THE STUMP, AND REPLACED BY A TREE OF SIMILAR SIZE AND SPECIES AT NO EXPENSE TO THE OWNER.
- 15. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM 4"-6" LAYER OF TOPSOIL IN ALL LAWN AREAS AND A MINIMUM OF 12" OF TOPSOIL IN ALL PLANTING AREAS. A FULL SOIL ANALYSIS SHALL BE CONDUCTED AFTER CONSTRUCTION AND PRIOR TO PLANTING TO DETERMINE THE EXTENT OF SOIL AMENDMENT REQUIRED. SOIL PH SHOULD BE 5.5-6.5.
- 16. ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH SEED AS INDICATED ON THE LANDSCAPE PLANS. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN, WHILE PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH THE SEEDING NOTES ON THE EROSION CONTROL SHEET. ALL DISTURBED LAWN AREAS SHALL BE TOPSOILED, LIMED, FERTILIZED AND FINE GRADED PRIOR TO LAWN INSTALLATION.
- 17. ALL PLANTING BEDS SHALL RECEIVE 3" OF SHREDDED HARDWOOD BARK MULCH (COLOR: BLACK).
- 18. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS. 19. ALL EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST
- CONSTRUCTION DAMAGE BY SNOW FENCING. ALL FENCING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY, ALL TREES TO REMAIN SHALL BE IDENTIFIED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION, TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION, GRADING OR CLEARING. ALL EXISTING VEGETATION BEING PRESERVED AND LOCATED AT THE EDGE OF THE NEW TREELINE, SHALL BE PRUNED AND TRIMMED TO REMOVE ALL DEAD, DISEASED, OR DAMAGED BRANCHES.
- 20. ALL PLANTING DEBRIS (WIRE, TWINE, RUBBER HOSE, BACKFILL ETC.) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE. PROPERTY IS TO BE LEFT IN A NEAT ORDERLY CONDITION IN ACCORDANCE WITH ACCEPTED PLANTING PRACTICES.

KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	SPREAD	ROOT	REMARKS
	SHA	DE TREES	•					
AROG	7	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE		2" - 2-1/2"		B&B	STRAIGHT LEADER/SYM. BRANCHIN
QP .	5	*QUERCUS PALUSTRIS	PIN OAK		2" - 2-1/2"		B&B	STRAIGHT LEADER/SYM, BRANCHIN
QR	3	*QUERCUS RUBRA	NORTHERN RED OAK		2" - 2-1/2"		B&B	STRAIGHT LEADER/SYM. BRANCHIN
	EVER	GREEN TREES						
PA	20	PICEA ABIES	NORWAY SPRUCE	10' - 12'		[B & B	STRAIGHT LEADER/TYP. SPECIES HAB
PS	- 11	PINUS STROBUS	EASTERN WHITE PINE	10' - 12'			B&B	STRAIGHT LEADER/TYP, SPECIES HAB
TPE	5	THUJA PLICATA 'EXCELSA'	EXCELSA WESTERN ARBORVITAE	8' - 10'			B & B	STRAIGHT LEADER/TYP. SPECIES HAR
	ORN	IAMENTAL TREES						
BN	ORN 3	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	8' - 10'			CONT.	
BN	ORN 3 3		DURA HEAT RIVER BIRCH CANADA RED CHOKECHERRY	8' - 10'	I-3/4" - 2"		CONT. B&B	CLUMP/TYP. SPECIES HABIT
BN PVCR	ORN 3 3 SHRI	BETULA NIGRA 'DURA HEAT' PRUNUS VIRGINIANA 'CANADA RED' UBS	CANADA RED CHOKECHERRY	8' - 10'	I-3/4" - 2"			
BN PVCR CSB	3	BETULA NIGRA 'DURA HEAT' PRUNUS VIRGINIANA 'CANADA RED' JBS CORNUS SERICEA 'BAILEYI'		8' - 10'	I-3/4" - 2"			CLUMP/TYP. SPECIES HABIT
BN PVCR CSB	3	BETULA NIGRA 'DURA HEAT' PRUNUS VIRGINIANA 'CANADA RED' UBS	CANADA RED CHOKECHERRY		1-3/4" - 2"		B&B	CLUMP/TYP, SPECIES HABIT STRAIGHT LEADER/TYP, SPECIES HAE
BN PVCR CSB IMES JCSG	3 3 SHRI 8	BETULA NIGRA 'DURA HEAT' PRUNUS VIRGINIANA 'CANADA RED' JBS CORNUS SERICEA 'BAILEYI'	CANADA RED CHOKECHERRY RED OSIER DOGWOOD	24"-30"	I-3/4" - 2"	24"-30"	B&B CONT.	CLUMP/TYP. SPECIES HABIT STRAIGHT LEADER/TYP. SPECIES HAE TYPICAL SPECIES HABIT
BN PVCR CSB	3 3 SHRI 8 9	BETULA NIGRA 'DURA HEAT' PRUNUS VIRGINIANA 'CANADA RED' JBS CORNUS SERICEA 'BAILEYI' HYDRANGEA MACROPHYLLA 'ENDLESS SUMMER'	RED OSIER DOGWOOD ENDLESS SUMMER HYDRANGEA	24"-30"	1-3/4" - 2"	24"-30" 24"-30"	B&B CONT. CONT.	CLUMP/TYP. SPECIES HABIT STRAIGHT LEADER/TYP. SPECIES HAE TYPICAL SPECIES HABIT TYPICAL SPECIES HABIT

SITE PLANTING SCHEDULE

NOTE: * FALL PLANTING HAZARD

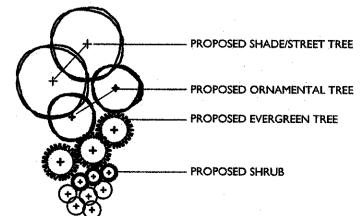
PLAN NOTE

1. THESE PLANS ARE TO BE USED FOR LANDSCAPE PURPOSES ONLY. REFER TO EROSION ANS SEDIMENT CONTROL DETAIL SHEET FOR SEEDING NOTES.

LANDSCAPE NOTES

- I. LOCATIONS OF ALL PLANT MATERIAL AND PLANTING BED OUTLINES IS APPROXIMATE. AND MAY VARY DUE TO THE LOCATIONS OF SITE IMPROVEMENTS AND/OR BUILDINGS.
- 2. FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED OUTLINES SHALL BE
- DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE PROJECT LANDSCAPE ARCHITECT. 3. ALL AREAS WITHIN THE PLANTING BED LIMITS SHALL BE MULCHED WITH 3" OF SHREDDED
- HARDWOOD BARK MULCH (COLOR: BLACK). 4. LAWN AREAS SHALL BE STABILIZED WITH SEED.
- 5. ANY PROPOSED IRRIGATION DESIGN AND/OR SYSTEM WILL BE DETERMINED IN THE FIELD BY THE IRRIGATION CONTRACTOR.
- 6. ALL PLANT MATERIAL SHALL CONFORM TO GUIDELINES AS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY
- 7. NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE MADE WITHOUT WRITTEN CONSENT FROM THE TOWN OF NEWBURGH LANDSCAPE CONSULTANT.





30 24 18 12 6 0 15 30 SCALE: 1" = 30'

LANDSCAPE PLAN

JUSTIN E. DATES NEW YORK REGISTERED ANDSCAPE ARCHITECT - LICENSE NUMBER: 001964

SITE PLAN

18 ROUTE 17K, LLC

SECTION 97

BLOCK 1 LOT 21.2

TOWN OF NEWBURGH **COUNTY OF ORANGE**

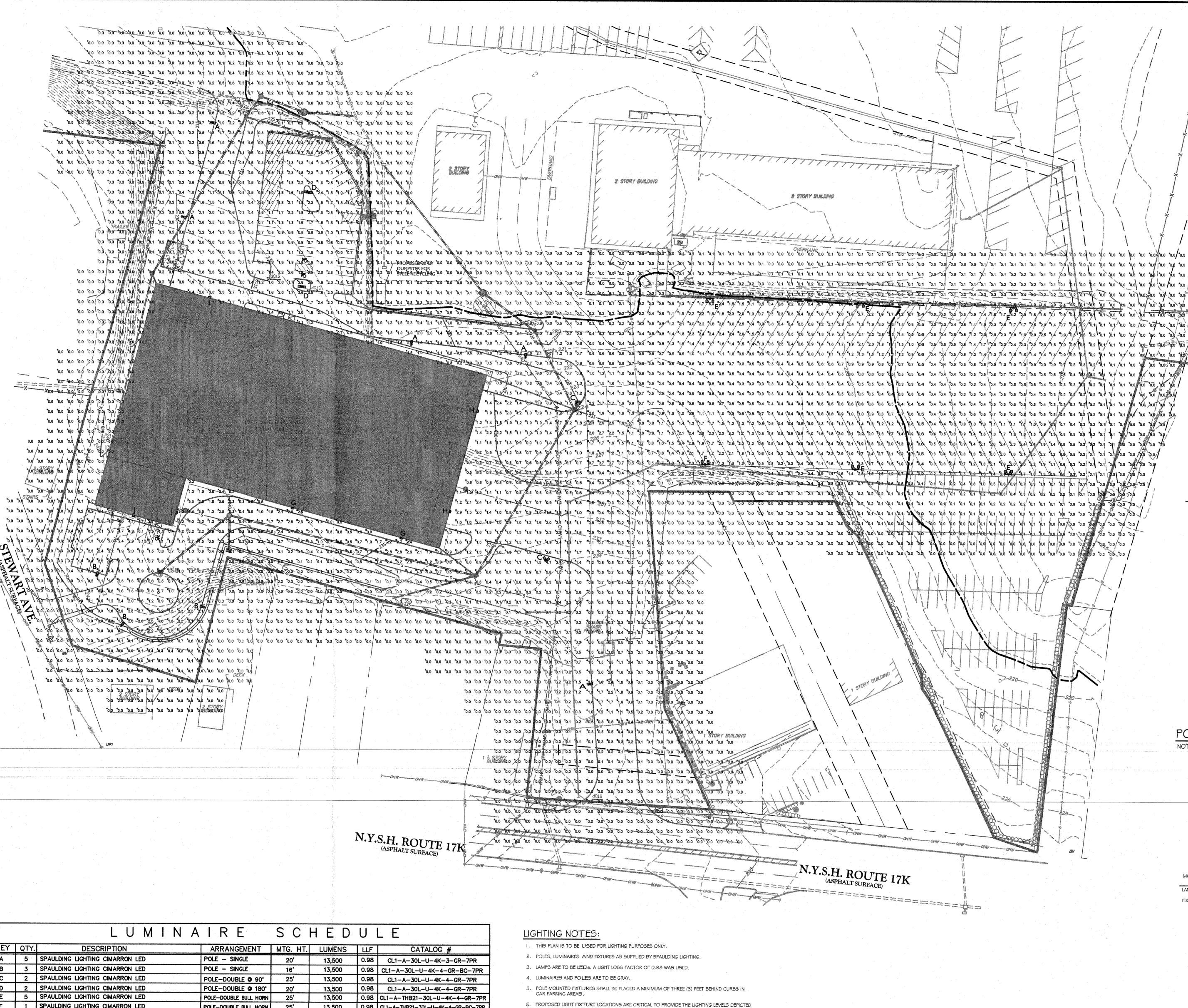
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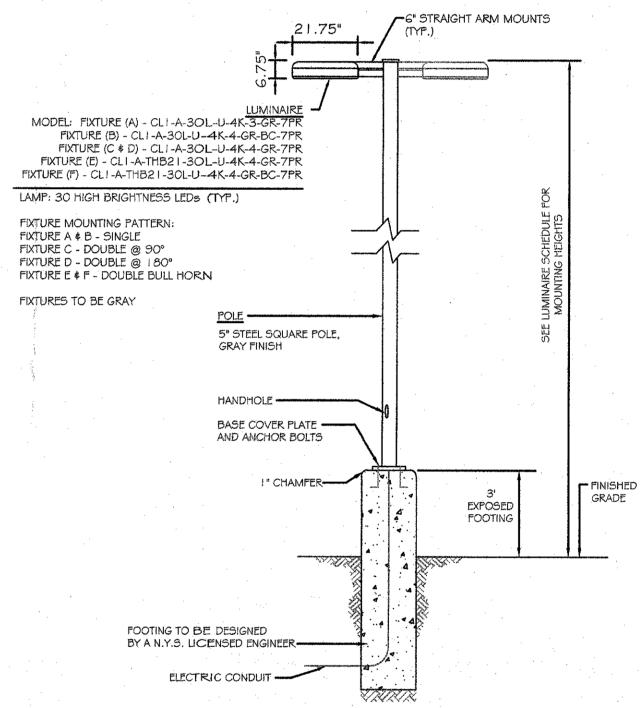
08 of 11



		LUMINA	IRE	SCI	H E D	U	LE
KEY	QTY.	DESCRIPTION	ARRANGEMENT	MTG. HT.	LUMENS	LLF	CATALOG #
· A	5	SPAULDING LIGHTING CIMARRON LED	POLE - SINGLE	20'	13,500	0.98	CL1-A-30L-U-4K-3-GR-7PR
8	3	SPAULDING LIGHTING CIMARRON LED	POLE - SINGLE	16'	13,500	0.98	CL1-A-30L-U-4K-4-GR-BC-7PR
С	2	SPAULDING LIGHTING CIMARRON LED	POLE-DOUBLE @ 90°	25'	13,500	0.98	CL1-A-30L-U-4K-4-GR-7PR
D	2	SPAULDING LIGHTING CIMARRON LED	POLE-DOUBLE @ 180'	20'	13,500	0.98	CL1-A-30L-U-4K-4-GR-7PR
E	5	SPAULDING LIGHTING CIMARRON LED	POLE-DOUBLE BULL HORN	25'	13,500	0.98	CL1-A-THB21-30L-U-4K-4-GR-7PR
F	11	SPAULDING LIGHTING CIMARRON LED	POLE-DOUBLE BULL HORN	25'	13,500	0.98	CL1-A-THB21-30L-U-4K-4-GR-BC-7PR
G	2	SPAULDING LIGHTING CIMARRON LED	WALL MOUNT-SINGLE	17'	13,500	0.98	CL1-A-30L-U-4K-3-GR-WB-7PR
Н	2	SPAULDING LIGHTING CIMARRON LED	WALL MOUNT-SINGLE	20'	13,500	0.98	CL1-A-30L-U-4K-4-GR-WB-7PR
1	1	SPAULDING LIGHTING CIMARRON LED	WALL MOUNT-SINGLE	17'	13,500	0.98	CL1-A-30L-U-4K-4-GR-WB-7PR
J	2	SPAULDING LIGHTING CIMARRON LED	WALL MOUNT-SINGLE	12'	13,500	0.98	CL1-A-30L-U-4K-4-GR-WB-7PR

CALCULATION SUMMARY					
AREA	CALC TYPE	UNITS	AVG	MAX	MIN
PARKING/DRIVES/WALKS	ILLUMINANCE	Fc	1.1	6.4	0.1

- ON THIS PLAN. THE LIGHTING CONTRACTOR SHALL FIELD VERIFY FIXTURE LOCATIONS PRIOR TO INSTALLATION. IF ADJUSTMENT TO ANY LIGHT FIXTURE LOCATION IS REQUIRED DUE TO FINAL CONSTRUCTION OF UTILITIES AND SITE IMPROVEMENTS. THE LIGHTING CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
- 7. POLE SIZES TO BE CONFIRMED WITH MANUFACTURER.
- 8. LIGHTING SHOWN ON PLAN DEPICTS AVERAGE MAINTAINED FOOTCANDLE LEVELS AT GRADE.
- 9. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE PROJECT LANDS CAPE ARCHITECT.
- 10. ELECTRICAL PLANS FOR WIRING LAYOUT BY OTHERS.
- 11. POLE BASE INSTALLATION SHALL INCLUDE A SUPPLEMENTARY GROUND ROD AND WIRE LEAD TO BASE FOR POWER CONNECTION. DETAILS PER PROJECT ELECTRICAL ENGINEER.

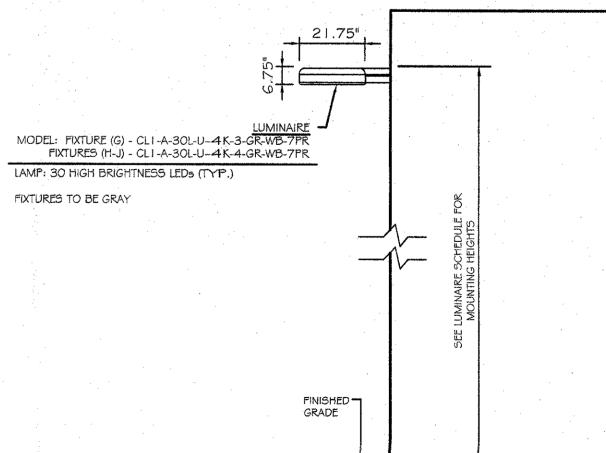


POLE MOUNTED FIXTURE DETAIL (FIXTURES: A-F

I. LUMINAIRES AND POLE TO BE MANUFACTURED BY SPAULDING LIGHTING.

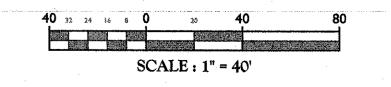
4. VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR

- 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT
- 3. FOOTING TO BE DESIGNED, SIGNED, AND SEALED BY A N.Y.S. LICENSED ENGINEER



WALL MOUNTED FIXTURE DETAIL (FIXTURES:G-J

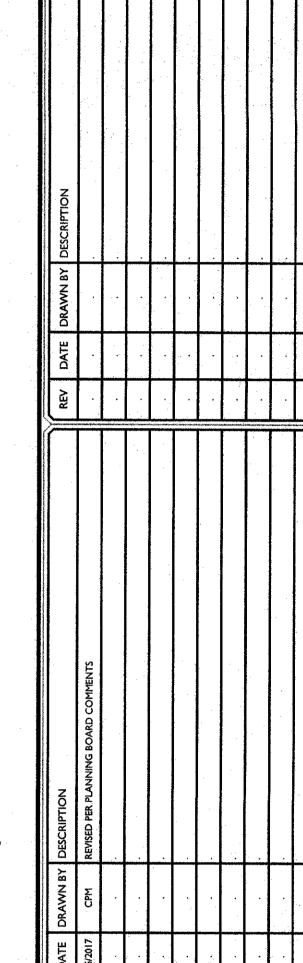
- NOTES: 1. LUMINAIRES AND WALL BRACKET TO BE MANUFACTURED BY SPAULDING LIGHTING.
- 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
- 3. WALL BRACKET CATALOG NUMBER: WB-AREA-DB 4. VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.

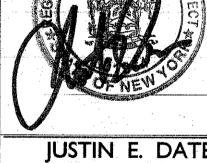


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Marmora, NJ
Mt. Arlington,
Mt. Laurel, NJ Echigh Valley, PA
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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT





JUSTIN E. DATES NEW YORK REGISTERED NDSCAPE ARCHITECT - LICENSE NUMBER: 00196

SITE PLAN

18 ROUTE 17K, LLC

SECTION 97 BLOCK 1

LOT 21.2 TOWN OF NEWBURGH **COUNTY OF ORANGE**

STATE OF NEW YORK

NEW WINDSOR OFFICE Suite 101 New Windsor, NY 12553 Phone: 845.564.4495

Fax: 845.567.1025

AS SHOWN OJECT NUMBER: RAWING NAME 16001017A

LIGHTING PLAN

