

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME:DARRIGO SOLARPROJECT NO.:19-24PROJECT LOCATION:SECTION 86, BLOCK 1, LOT 96REVIEW DATE:1 MARCH 2024MEETING DATE:7 MARCH 2024PROJECT REPRESENTATIVE:ARDEN CONSULTING

- 1. The applicants are requesting a phased approval for the solar facility. In addition, changes to the landscape plan are proposed subject to review by Karen Arent's office.
- 2. The application continues to have multiple uses including agriculture and a seasonal event area depicted.
- 3. Drainage improvements are identified on the project site. Timing of the drainage improvements should be discussed with the applicant's representative.
- 4. The applicants are requested to discuss the electrical interconnect for the Phase II Solar.
- 5. Keys for all gates should be provided to the jurisdictional emergency services. Coordination of this should be required.
- 6. The status of the variance for the solar farm should be updated.
- 7. Updated costs for installation of the solar facility have been provided. Security and inspection fee approval by the Town Board is required.
- 8. The project has coverage under the NYSDEC Stormwater SPDES Permit.

Respectfully submitted,

MHE Engineering, D.P.C.

Patrit & Afones

Patrick J. Hines Principal PJH/ltm

NEW YORK OFFICE

33 Airport Center Drive, Suite 202, New Windsor, NY 12553 845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

PENNSYLVANIA OFFICE

111 Wheatfield Drive, Suite 1, Milford, PA 18337 570-296-2765 | F: 570-296-2767 | mhepa@mhepc.com 22 January 2024

DECEIVE JAN 2 4 2024 MHE Engineering, D.P.C.

Town of Newburgh Planning Board John Ewasutyn, Chairperson & Planning Board Members 21 Hudson Valley Professional Plaza Newburgh, NY 12550

Jeffrey Lease, Representative Darrigo Solar Farm 5020 Route 9W Newburgh, NY 12550

> Re: Darrigo Solar Farm, 84 Lakeside Road, Newburgh, New York Town Planning Board Number 2019-2024

The former Landscape Architect for this project retired and so the revised landscape plans have been redrawn by a new office, ULS of Saratoga Springs, New York.

Because of New York State power regulations, the 5 MW project is in the NYSERDA database and Central Hudson que as a 4MW and two 0.50 MW projects. We learned after preliminary approval that Central Hudson could not take all the power to the substation at one time.

Since then the substation connector has been improved and has just become available, but approval for interconnection by Central Hudson will take up to three months. Once approved the two 0.5 MW projects will be built at the same time.

I request that the project be built in two parts, Phase I being the 4 MW project and Phase II being the two 0.5 MW projects. The completion of Phase II will occur no longer than 6 months after Phase I. All the site improvements will be completed with Phase I.

Respectfully,

Jeffrey Lease 845.542.0345

NEW YORK STATE DEPARTMENT OF ENVIRONMENT

Division of Water, Bureau of Water Permits 625 Broadway, Albany, New York 12233-3505 .P: (518) 402-8111 F: (518) 402-9029

www.dec.ny.gov

2/8/2022

JAN 24 2024 MHE Engineering, D.P.C.

Private Owner Jeffrey Lease 597 GRAND AVENUE NEWBURGH, NY 12550

RE: ACKNOWLEDGMENT of NOTICE OF INTENT for Coverage Under SPDES General Permit for Storm Water Discharges from CONSTRUCTION ACTIVITY – General Permit No. GP-0-20-001

Dear Prospective Permittee:

This is to acknowledge that the New York State Department of Environmental Conservation (Department) has received a complete Notice of Intent (NOI) for coverage under General Permit No. GP-0-20-001 for the construction activities located at:

Solar Farm Site Plan for Darrigo Farm 84 Lakeside Avenue Newburgh, NY 12550

County: ORANGE

Pursuant to Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and ECL Article 70, discharges in accordance with GP-0-20-001 from the above construction site will be authorized **5** business days from **2/7/2022**, which is the date we received your final NOI, unless notified differently by the Department.

The permit identification number for this site is: **NYR11J306**. Be sure to include this permit identification number on any forms or correspondence you send us. When coverage under the permit is no longer needed, you must submit a Notice of Termination to the Department.

This authorization is conditioned upon the following:

1. The information submitted in the NOI received by the Department on **2/7/2022** is accurate and complete.

2. You have developed a Stormwater Pollution Prevention Plan (SWPPP) that complies with GP-0-20 -001 which must be implemented as the first element of construction at the above-noted construction site.

3. Activities related to the above construction site comply with all other requirements of GP-0-20-001.



Department of Environmental Conservation 4. Payment of the annual \$110 regulatory fee, which is billed separately by the Department in the late fall. The regulatory fee covers a period of one calendar year. In addition, since September 1, 2004, construction stormwater permittees have been assessed an initial authorization fee which is now \$110 per acre of land disturbed and \$675 per acre of future impervious area. The initial authorization fee covers the duration of the authorized disturbance.

5. Your SWPPP has been reviewed by the regulated, traditional land use control MS4 where your project is located and has been determined to be in substantive conformance with the requirements in the SPDES General Permit for Stormwater Discharges from MS4s.

6. Before disturbing greater than 5 acres of soil at any one time, you have obtained written authorization from the regulated, traditional land use control MS4 that has jurisdiction over the project.

7. When applicable, project review pursuant to the State Environmental Quality Review Act (SEQRA) has been satisfied.

8. You have obtained all necessary Department permits subject to the Uniform Procedures Act (UPA). You should check with your Regional Permit Administrator for further information.

*Note: Construction activities cannot commence until project review pursuant to SEQRA has been satisfied, when SEQRA is applicable; and, where required, all necessary Department permits subject to the UPA have been obtained.

Please be advised that the Department may request a copy of your SWPPP for review.

Should you have any questions regarding any aspect of the requirements specified in GP-0-20-001, please contact Dave Gasper at (518) 402-8114.

Sincerely,

David Gasper Environmental Engineer

RWE - **3** SWPPP Preparer ARDEN CONSULTING ENGINEERS MORGANTE MICHAEL PO BOX 340 MONROE, NY 10949

CC:



Landscape Architecture + Environmental Services + Planning

Date:	January 23, 2024	DECEIVED
То:	Karen Arent Karen Arent Landscape Architect 12 Old Minisink Trail Goshen, New York 10924 Phone: 845-294-9958 Email: KALA@hve.rr.com	MHE Engineering, D.P.C.
From:	Erin Maciel, RLA Principal- Urban Landscape Studio Landscap	_
Subject:	Darrigo Solar Farm Landscape Plan Comment Response Men Comments Received by Email (Town Project Number 2019-1	

Dear Ms. Arent,

The following is a list of outstanding comments received from your office on January 6, 2022 and our corresponding responses (in red) that have been addressed in the latest plan set submittal (January 23, 2024).

- 4. Screen planting along the southern and easter property lines include some larger trees at the time of planting. However, the planting should include some evergreens such as Red Cedar Juniper (which will look very natural as it is commonly found along the highway). Also include more plants. This area should look like a forest. The Oak trees are shown 100' wide. This may never happen and if it grows that large, it will take decades. Please mimic nature but at an accelerated pace. Maybe show 9 Oaks. Show a forest in this area. Additional tree and shrub plantings have been included for the restoration area along I84. The plant list for this area has been updated to include more evergreen trees (Eastern Red Cedar and White Pine).
- 5. No fence details were included. Please include a detail for the proposed fencing at the lakeside road entrance. Fence and gate details have been added on Sheet L-502.
- 6. Please forward the enlarged planting plan so we can make sure this comment was addressed. Enlarged planting plans have been included in the updated plan set.
- 7. -----
- 8. This comment was not addressed. Please show many more plants, several of which are larger in size at time of planting, to provide screening of the access drive that runs between the two residential properties off Lakeside Dr. Consider a thickly planted hedge of Bottlebrush Buckeye, Aesculus parviflora. It grows in both sun and shade and grows 12'+ in height. The planting plan has been updated accordingly.
- 9. Please forward the enlarged planting plan so we can make sure this comment was addressed. Taxus x media has been removed from the planting plan and replaced with llex glabra. Enlarged planting plan has also been included in the updated plan set.
- 10. Red cedars are pioneer species that require full sun and Gray Dogwood is not deer resistant. Instead propose layers of shade and deer-tolerant species such as Hamamelis virginiana (Witchhazel) and Aesculus parviflora, Bottlebrush Buckeye. Eastern Red Cedar has been replaced with thuja occidentalis 'Techny' due to its tolerance of partial shade. Bridal wreath spirea, winterberry and red-twig dogwood has been included as understory plantings.

URBAN LANDSCAPE STUDIO Landscape Architecture PLLC

153 Van Dam Street | Saratoga Springs, New York | Phone: 347.541.0281 | Email: erin.maciel@uls-ny.com

Darrigo Solar Farm- Landscape Comment Responses January 23, 2024 Page 2

Additional items that must be addressed:

1. Another concern that we discussed is the sloped area between the solar arrays. Please take off the word top. Trees should never be topped! Please remove the Red Maples or show them only at the bottom of the slope as they will get too tall. Consider replacing with 100 Bottlebrush Buckeye, Aesculus parviflora. Note removed. Planting plan amended.

2. Please remove note 23 on the planting notes. regarding tree topping. NO trees should be topped. Note removed.

3. Amend note 20 to read that the guarantee is for a two year period. Note amended.

4. Amend note 21 to include that the plants will be inspected each growing season and those deemed 25% or more dead or otherwise unfit are to be replaced every growing season as well. Note amended.

We look forward to scheduling a virtual plan review with you to address any further comments to the landscape plans. Please let us know a date and time that is convenient for you.

Kindly,

Fin Maciel, RLA

Erin Maciel, RLA, Principal URBAN LANDSCAPE STUDIO Landscape Architecture PLLC

Attachments:

Landscape Comments (January 27, 2021) Landscape Comments (January 6, 2022)

- Building Greener Communities -

KALA

Karen Arent Landscape Architect

Memorandum

To: Chairman John Ewasutyn and the Town of Newburgh Planning Board
From: Karen Arent, Landscape Architect
Date: January 27, 2021
Subject: Darrigo Solar Farm Landscape Plan Dated November 5, 2020
Town Project Number: 2019-14
Consultant: Jeff Lease
Cc: Pat Hines, Dominick Cordisco, Gerald Canfield, Scott Manley, Jeff Lease

COMMENTS:

We reviewed the latest proposed landscape plan for Darrigo Solar Farm and found that significant changes were made to the plans that provide better screening than previously issued plans. The surrounding buffer area of existing vegetation and wooded areas has been expanded. Formerly the buffer was 50' wide in many areas and at the northwest part of the property it was expanded to 150'. Along the northern property line adjacent to residences along Meadow Hill Road the buffer was increased to 120' and more area along the proposed driveway was preserved. Along the eastern property line, the buffer was increased to 100'. This provides screening of the solar arrays as most areas inside the buffer are densely wooded.

The following comments are listed for discussion with the planning board:

- 1. Please include notes on the drawing that existing topsoil will remain and will not be trucked off site.
- 2. The proposed screening planting technique along the southern and eastern property lines may be beneficial in the future as smaller plants need less care after planting and have less risk of shock than larger plants. However, neighbors may voice screening concerns due to the small size of plants. Perhaps a few plants should be specified that are larger in size?

12 Old Minisink Trail, Goshen, New York 10924 Phone (845) 294-9958, Fax (845) 294-6546, Email: KALA@hvc.rr.com

<u>Comments for Darrigo Solar Farm</u> <u>Dated January 27, 2021</u>

- 3. Please consider planting native shrubs that form thick masses such as Cornus amomum, Silky Dogwood, to block grade level views of the solar arrays in various locations.
- 4. Deciduous screen planting is proposed along the property line adjacent to Interstate 84 as these plantings will blend in better with existing plants in the area. However, screening will be lacking come winter when the leaves have fallen so this should be discussed with the planning board. The size of the trees for proposed screening should also be discussed as all plants are small in size and will not be visible for quite some time.
- 5. Please include a detail for the proposed fencing at the Lakeside road entrance. This fence will be highly visible from the road and it should be aesthetically pleasing.
- 6. *Erianthus ravennae* has been proposed at the Lakeside Road entrance. It is a nonnative plant which spreads from ornamental plantings along roadsides and other disturbed edge habitats and has been reported as invasive in Western, Midwestern, and Southern states, as near as Ohio and Maryland. Please consider using a native grass, or other grass without reported invasive tendencies.
- 7. Additional screening has not been provided for residences that border the site and are on Lakeside road per previous comment 6.
- 8. Utility poles, remain proposed off Meadow Hill Road, across from Monarch Drive, and will have a negative visual impact on the neighborhood. Please consider screening with more low growing trees such as Shadblows. Also consider planting trees in larger sizes to provide more immediate screening to mitigate negative visual impacts of the proposed entrance drive and telephone poles. A gate is also recommended to keep people from hanging out in cars next to the neighboring residential properties. Please show an aesthetically pleasing gate and locate it 20-30' from Meadow Hill Road to allow a car or truck to pull in while opening the gate to get in.
- 9. *Taxus x media* 'Nigra' has been proposed at the Meadow Hill Road entrance. *Taxus* is very susceptible to deer browsing. It is nice to have well-spaced evergreens but it would take decades for the *Taxus* to grow to the approximate mature plant size illustrated on the plan. For these reasons we suggest replacing them with a different evergreen. Also, when proposing mature spacing for shrubs, low growing plants or groundcovers should be specified to fill in and help prevent

<u>Comments for Darrigo Solar Farm</u> <u>Dated January 27, 2021</u>

weeds from taking over while shrubs grow into their mature size. We recommend proposing some at the Meadow Hill Road entrance.

- 10. Additional screening has not been provided for the residence off Patton Road on the west side of the property or the residence off Meadow Hill Road at the intersection of Meadow Hill Road and Patton Drive per previous comment 7.
- 11. Please describe on the plan what is meant by "6-8" wattle of whips" as a planting size.
- 12. Scotch Pines are not native and may not grow well in this area. We suggest the use of a native evergreen tree better suited to the environment.
- 13. *Picea glauca* grow so slowly that they will not reach a size suitable for screening for decades. We recommend fast growing native shrubs that form dense thickets. Also please consider specifying Red Cedar Juniper or another native evergreen tree for winter interest.

Hello Jeff:

Here is a list of my concerns:

Most comments prepared Jan 27 were not addressed. Here's a brief synopsis of the comments and what we discussed yesterday along with some of the other comments that were not addressed. Comments correspond to comments dated Jan 27, 2021. I attach this comment letter for your reference.

- 1. Addressed.
- 2. Addressed.
- 3. Addressed.
- 4. Screen planting along the southern and easter property lines include some larger trees at the time of planting. However, the planting should include some evergreens such as Red Cedar Juniper (which will look very natural as it is commonly found along the highway). Also include more plants. This area should look like a forest. The Oak trees are shown 100' wide. This may never happen and if it grows that large, it will take decades. Please mimic nature but at an accelerated pace. Maybe show 9 Oaks. Show a forest in this area.
- 5. No fence details were included. Please include a detail for the proposed fencing at the lakeside road entrance.
- 6. Please forward the enlarged planting plan so we can make sure this comment was addressed.
- 7. -----
- 8. This comment was not addressed. Please show many more plants, several of which are larger in size at time of planting, to provide screening of the access drive that runs between the two residential properties off Lakeside Dr. Consider a thickly planted hedge of Bottlebrush Buckeye, Aesculus parviflora. It grows in both sun and shade and grows 12'+ in height.
- 9. Please forward the enlarged planting plan so we can make sure this comment was addressed.
- 10. Red cedars are pioneer species that require full sun and Gray Dogwood is not deer resistant. Instead propose layers of shade and deer-tolerant species such as Hamamelis virginiana (Witchhazel) and Aesculus parviflora, Bottlebrush Buckeye.
- 11. Addressed
- 12. Addressed
- 13. Addressed

Additional items that must be addressed:

1. Another concern that we discussed is the sloped area between the solar arrays. Please take off the word top. Trees should never be topped! Please remove the Red Maples or show them only at the bottom of the slope as they will get too tall. Consider replacing with 100 Bottlebrush Buckeye, Aesculus parviflora.

2. Please remove note 23 on the planting notes. regarding tree topping. NO trees should be topped.

3. Amend note 20 to read that the guarantee is for a two year period.

4. Amend note 21 to include that the plants will be inspected each growing season and those deemed 25% or more dead or otherwise unfit are to be replaced every growing season as well.

Please call with questions or concerns. Kind Regards,

Karen Arent

Karen Arent Landscape Architect Phone: (845) 294-9958 Follow me on Instagram: <u>https://www.instagram.com/karenarentdesigns</u>

From: Jeff Lease <jefflease@johnjleaserealtors.com> Sent: Wednesday, January 5, 2022 4:11 PM To: Karen Arent <karenarentdesign@frontier.com> Subject: Darrigo solar farm

ka,

as per our conversation of this afternoon, here are the points that need to be addressed.

on the slope between the two fields:

1. remove 'top' from hillside drawing.

2. do we really want acer rubrum, wattles or other wise when they may grow 75' tall and shadow the solar panels? sugest 100 bottle eye brush, asculaus carbaoforu in its stead.

at meadow and monarch:

3. there was a previous unmet request to screen both sides of the service road with something. there's not much room, but something is better than nothing at all. consider shadblow, bottle brush, or some smaller tree.

84 buffer:

4. that buffer is a bit jejuneplease beefup a bit, those red maples and white oaks will be underwhelming for a while. please consider some red cedars that provide year-round screening as this is a visual sore spot in the approval process.

patton road buffer:

5. i question the use of red cedar in this area. with the existing trees left i don't see them doing well as an under story tree. how about viburnum or... bottle brush and possibly something a bit more substantial like ...red maple. generally bef this up a bit as it also was a bit contentious in the approval process.

Project Name: 5MW Solar Farm Site I	lan for Darrigo	Mu	nicipality:		Newbu	rgh	
Planning Board No.:	0		Date		12/3/2021		
<u>PRIVATE_IMPROVEMENT</u> AND SITE PLAN UNIT PRICES							
(Interim Update Dec. 2018)							
Decemination	¥īn:+	TIn	t Cost	067	Total	Cost	
<u>Description</u> Roadway and Parking Lot	<u>Unit</u>	<u>Ua</u>	it Cost	<u>Qtv</u>	<u>Total</u>	COSL	
Erosion Control	AC	\$	2,455.00		33.35 \$	81,874.25	
Silt Fencing	LF	\$	4.85		8712 \$	42,253.20	
Grading	SY	\$	2.50		\$	-	
Paving & Base (regular construction)	SY	\$	26.75		\$	-	
Paving & Base (heavy-duty construction)	SY	\$	35.00		\$	-	
Tack Coat	SY	\$	0.75		\$	-	
Overlay Existing Pavement (1.5")	SY	\$	8.75		\$	-	
Double Surface Treatment	SY	\$	8.00		\$	-	
Asphalt Paving	TON	\$	166.75		\$	-	
Asphalt Pavement (1.5" top)	SY	\$	14.60		\$	-	
Asphalt Pavement (2" top)	SY	\$	18.70		\$	-	
Asphalt Pavement (3"course)	SY	\$	28.50		\$	-	
Asphalt Pavement (3.5"course)	SY	\$	33.00		\$	-	
Asphalt Pavement (4"course)	SY	\$	47.00		\$	-	
					\$	-	
Topsoil & Seeding	SY	\$	8.00		\$	-	
Street Signs (Traffic Control)	EA	\$	335.00		\$	-	
Parking Space Striping	EA	\$	13.80		\$	-	
Handicap symbol	EA	\$	72.50		\$	-	
Parking & Lane Striping	LF	\$	0.75		\$	-	
Painted Striped Island	EA	\$	53.50		\$	-	
Site Plan Stop Bar	EA	\$	115.00		\$	-	
Handicapped Sign & Striping	EA	\$	300.00		\$	-	
Traffic Control Sign	EA	\$	300.00		\$	-	
Concrete Curbing	LF	\$	24.15		\$	-	
Concrete Sidewalk	SY	\$	53.50		\$	-	
Timber Curbing	LF	\$	17.25		\$	-	
Curb (Precast) Bumpers	EA	\$	100.00		\$	-	
Shale Parking (Overflow) Area	SY	\$	12.10		\$	-	
Guiderail	LF	\$	53.50		\$	-	
Drainage							
Catch Basin	EA	\$	3,600.00		\$	-	
Connection to Existing Catch Basin	EA	\$	768.00		\$	-	
Stormwater Pipe (15") HDPE	LF	\$	42.25		\$	-	
Stormwater Pipe (18") HDPE	LF	\$	52.00		\$	-	
Stormwater Pipe (24")HDPE	LF	\$	57.50		\$	-	
Stormwater Pipe (30")HDPE	LF	\$	75.00		\$	-	
Stormwater Pipe (36") HDPE	LF	\$	105.00		\$	-	
Stormwater Pipe (48") HDPE	LF	\$	136.50		\$	-	
End Section	EA	\$	535.00		\$	-	
Stormwater Pipe (15") RCP	LF	\$	46.00		\$	-	
Stormwater Pipe (18") RCP	LF	\$	57.50		\$	-	
Stormwater Pipe (24") RCP	LF	\$	84.00		\$	-	
Stormwater Pipe (30") RCP	LF	\$	115.00		\$	-	
Stormwater Pipe (36") RCP	LF	\$	152.00		\$	-	

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Stormwater Pipe (48") RCP	LF	\$ 238.00	\$	-
Stormwater Pipe (15") CMP	LF	\$ 53.50	\$	-
Stormwater Pipe (18") CMP	LF	\$ 61.50	\$	-
Stormwater Pipe (24") CMP	LF	\$ 75.50	\$	-
Stormwater Pipe (30") CMP	LF	\$ 106.00	\$	-
Stormwater Pipe (36") CMP	LF	\$ 137.50	\$	-
Stormwater Pipe (48") CMP	LF	\$ 192.00	\$	-
Concrete Headwall	EA	\$ 5,348.00	\$	-
Rip Rap Drainage Channel	LF	\$ 22.00	\$	-
Non-lined Drainage Channel	LF	\$ 9.25	\$	-
<u>Utilities</u>				
Watermain (8")	LF	\$ 71.50	\$	-
Gate Valve (8")	EA	\$ 1,300.00	\$	-
Tapping Sleeve and Valve (8")	EA	\$ 4,615.00	\$	-
Watermain (12")	LF	\$ 88.00	\$	-
Gate Valve (12")	EA	\$ 3,932.50	\$	-
Hydrant Assembly	EA	\$ 5,070.00	\$	-
Sewer Main (8")	LF	\$ 52.00	\$	-
Sewer Main (12")	LF	\$ 65.00	\$	-
Sewer Manholes	EA	\$ 3,068.00	\$	-
Septic Tank	EA	\$ 3,450.00	\$	-
Utility Trench (elec, phone, cable)	LF	\$ 12.00	\$	-
Mise.				
Landscaping Trees	EA	\$ 333.50	253 \$	84,375.50
Landscaping Shrubs	EA	\$ 48.25	\$	-
Mulched surface	SY	\$ 4.15	\$	-
Chain link fence (4' black vinyl coated)	LF	\$ 27.15	5536 \$	150,302.40
Split Rail Fence	LF	\$ 21.25	\$	-
Short Masonry Landscape Walls	LF	\$ 27.15	\$	-
Retaining Walls (modular) 4' height	LF	\$ 107.00	\$	-
Lamppost	EA	\$ 2,000.00	\$	-
Building Mtd. Light	EA	\$ 670.00	\$	-
Waste Enclosure (small)	EA	\$ 1,095.00	\$	· -
Dumpster Enclosure (masonry/concrete)	EA	\$ 6,670.00	\$	-
Clear and Grub	AC	\$ 7,995.00	33.35 \$	266,633.25
Rock Excavation	CY	\$ 162.50	\$	-
Excavation	CY	\$ 16.15	\$	-
Erosion Control Matting	SY	\$ 2.25	\$	-
Bollards (Concrete filled)	EA	\$ 632.50	\$	-

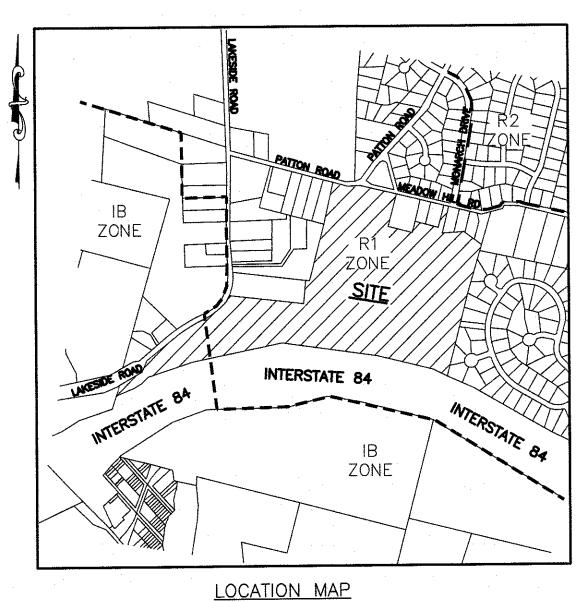
<u>Other</u>

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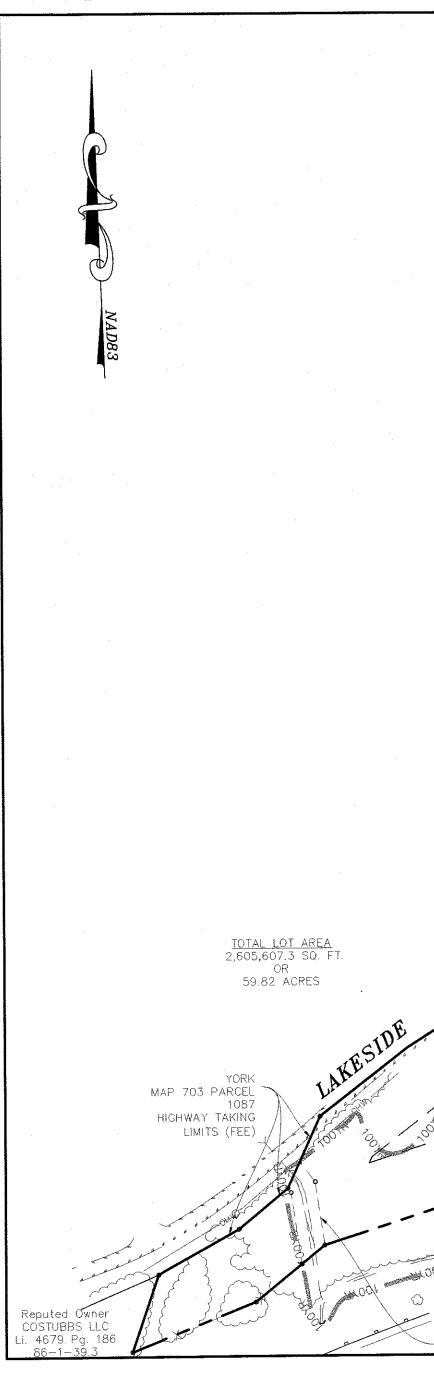
<u>o mini</u>				
Gravel Access Road	SY	2210	\$7.00	\$ 15,470.00
Wooden Guide Rail	LF		\$15.00	\$ -
Level Spreaders	LF		\$12.00	-
Seeding	SY		\$2.00	\$ -

Total \$ 640,908.60



SCALE: 1"=1000' SOURCE: OCWAGIS TAX MAPS

DRAWIN	G LIST	·
SHEET #	SHEET TITLE	ORIGINAL DATE/ LAST REVISED DATE
01 OF 09	TITLE SHEET	10-30-20/1-18-24
02 OF 09	EXISTING CONDITIONS PLAN	11-12-19/1-18-24
03 OF 09	SITE PLAN	11-12-19/1-18-24
04 OF 09	GRADING AND UTILITY PLAN	11-12-19/1-18-24
05 OF 09	EROSION CONTROL PLAN	11-12-19/1-18-24
06 OF 09	ACCESS ROAD PROFILES 01	11-12-19/1-18-24
07 OF 09	ACCESS ROAD PROFILES 02	11-12-19/1-18-24
08 OF 09	CONSTRUCTION DETAILS	12-16-19/1-18-24
09 OF 09	TURNING DIAGRAMS	11-12-19/1-18-24
L110	LANDSCAPE PLAN	1-22-24
L111	LANDSCAPE PLAN ENLARGEMENTS	1-22-24
L501	ENTRANCE PIER ELEVATIONS	1-22-24
L502	ENTRANCE FEATURE DETAILS	1-22-24



RECORD OWNER & APPLICANT OWNER: FRANK DARRIGO REVOCABLE TRUST 84 LAKESIDE RD NEWBURGH NY 12550

<u>APPLICANT</u> JEFFREY LEASE 597 GRAND AVENUE

NEWBURGH, NY 12550

WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

Dig_Safely. New York before you dig 2

AMENDED 5 MW AC SOLAR FARM SITE PLAN FOR DARRIGO 84 LAKESIDE AVENUE TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.

REFERENCES: 1. TOWN OF NEWBURGH TAX MAP SBL 86-1-96.

- 2. BOUNDARY AND PLANIMETRIC INFORMATION ON THIS PLAN HAS BEEN TAKEN FROM A SURVEY ENTITLED "SURVEY PREPARED FOR F&T DARRIGO" DATED MAY 13, 2012 AS PREPARED BY DJ SCALZO ASSOCIATES ENGINEERING and PLANNING, 57 FIFTH AVENUE, NEWBURGH, NEW YORK 12550.
- 3. SOLAR ARRAY DESIGN INFORMATION ON THIS PLAN HAS BEEN TAKEN FROM A PLAN ENTITLED "MOUNTAIN GARDENS, LLC" DATED JUNE 5, 2018 AS PREPARED BY ENTER SOLAR, 805 THIRD AVENUE, 20th FLOOR, NEW YORK, NY 1002.
- 4. TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM AN AERIAL SURVEY PREPARED BY GEODETIC ASSOCIATES IN 2005.
- TOPOGRAPHIC INFORMATION IN THE REMEDIATION AREA HAS BEEN TAKEN FROM A SURVEY PREPARED BY CHRISTOPHER M. COPPENS OF COPPENS LAND SURVEYING.

TITLE SHEET SCALE: 1"=150'

- REMOVE SHED

TENT FRAME TO BE

- REMOVED & --STORED ON-SITE

RAMED

AREA

150

SCALE

Reputed Owner PEEL Li. 6208 Pg. 137 86-1-54

FM #289-0

Lot 2 86-1-58

STORAC TRAILE TRAILE

REMOVE SHED

INTERSTATE 84

RELOCATED

TRAILERS (3)

AREA OF SEASONAL HALLOWEEN EVENT

SHED TO REMAIN

FM #289-06 Lot 1 86-1-58.11

FIELD #4 TILLED FIELD 7639.4 SQ. FT

STORAGE MATERIALS & EQUIPMENT

FIELD **#**5 HAY FIELD

144,246.8 SQ. FT.

OR

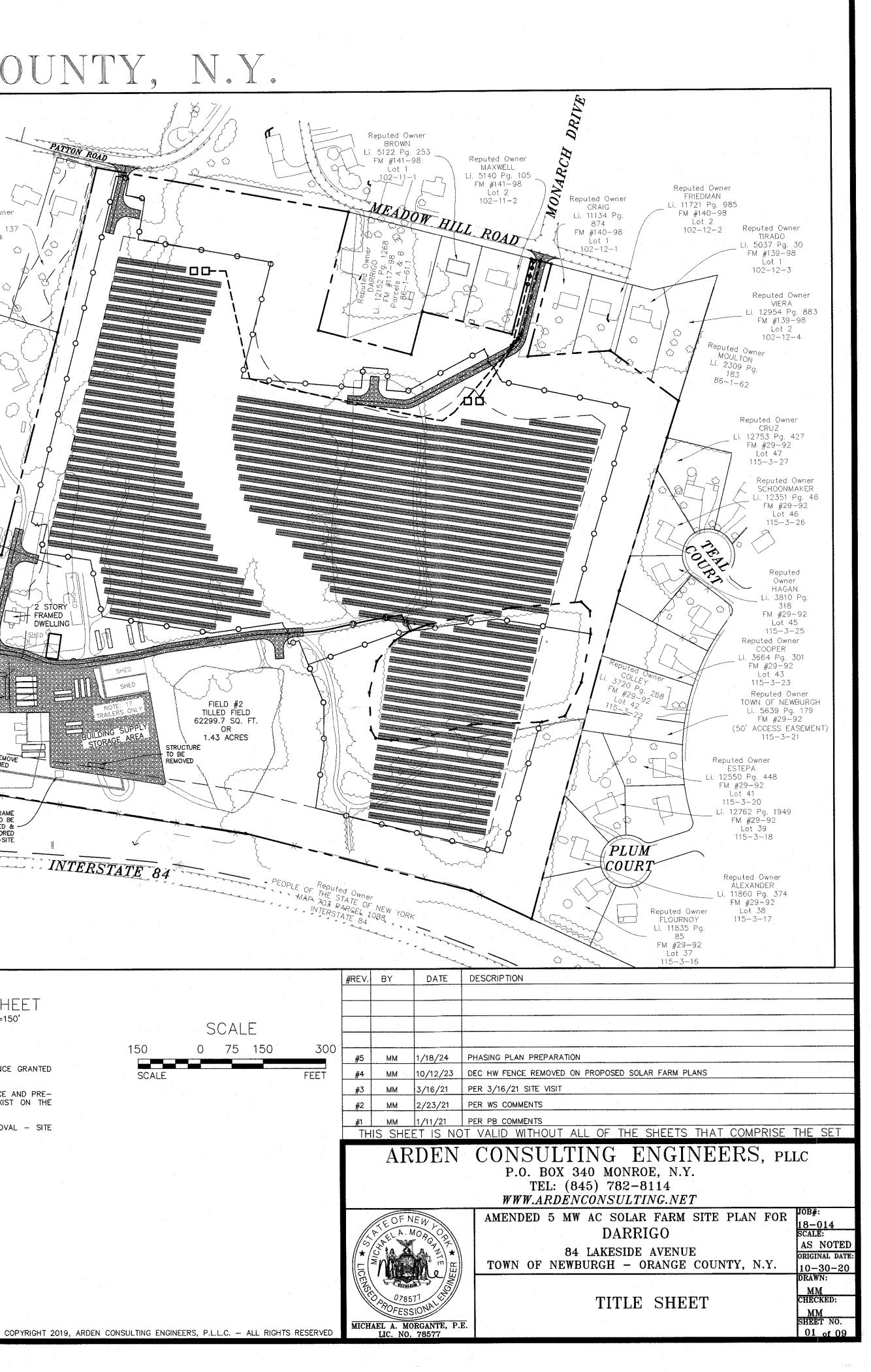
3.31 ACRES

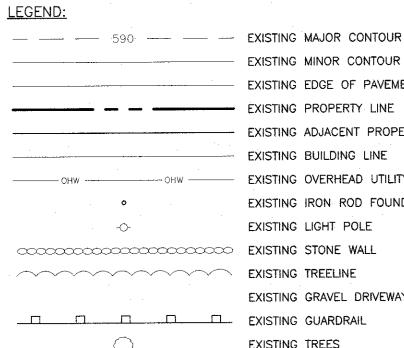
DARCE.

SITE PLAN APPROVAL NOTES:

1. ORIGINAL ZONING BOARD OF APPEALS USE VARIANCE GRANTED ON NOVEMBER 26, 2019. AMENDED ZONING BOARD OF APPEALS USE VARIANCE AND PRE-EXISTING NON-CONFORMING USES THAT CURRENTLY EXIST ON THE

SITE TO REMAIN ON SEPTEMBER 24, 2020. 3. PLANNING BOARD ORIGINAL RESOLUTION OF APPROVAL - SITE PLAN APPROVAL DATED APRIL 15, 2021.





EXISTING MINOR CONTOUR EXISTING EDGE OF PAVEMENT EXISTING PROPERTY LINE EXISTING ADJACENT PROPERTY LINE EXISTING BUILDING LINE OHW ----- EXISTING OVERHEAD UTILITY LINES EXISTING IRON ROD FOUND EXISTING LIGHT POLE EXISTING GRAVEL DRIVEWAY EXISTING TREES EXISTING SEWER MANHOLE EXISTING WETLAND EXISTING SOIL 100 YEAR FLOOD ZONE

TOTAL LOT AREA 2,605,607.3 SQ. F

OR

PEOPLE OF THE STATE

MAP 703 PARCEL 1087

N 19°28'36"

GRANITE MONS.

FOUND

HIGHWAY TAKING LIMITS

OF NEW YORK

(FEE)

59.82 ACRES

MON

GRANITE

MON. FOUND

FOUND

P.O.B.

ΈSΒ,

FOLLOWS:

100'

WETLAND.

NYSDEC

WETLAND

NB-21

BUFFER

RANITE

MON.

FOUNE

A=162.82'

R=334.70'

. M,dB∕

WETLAND BUFFER

NEW

🔨 100'

IOO YEAR

FLOOD ZONE

EL. 490.0

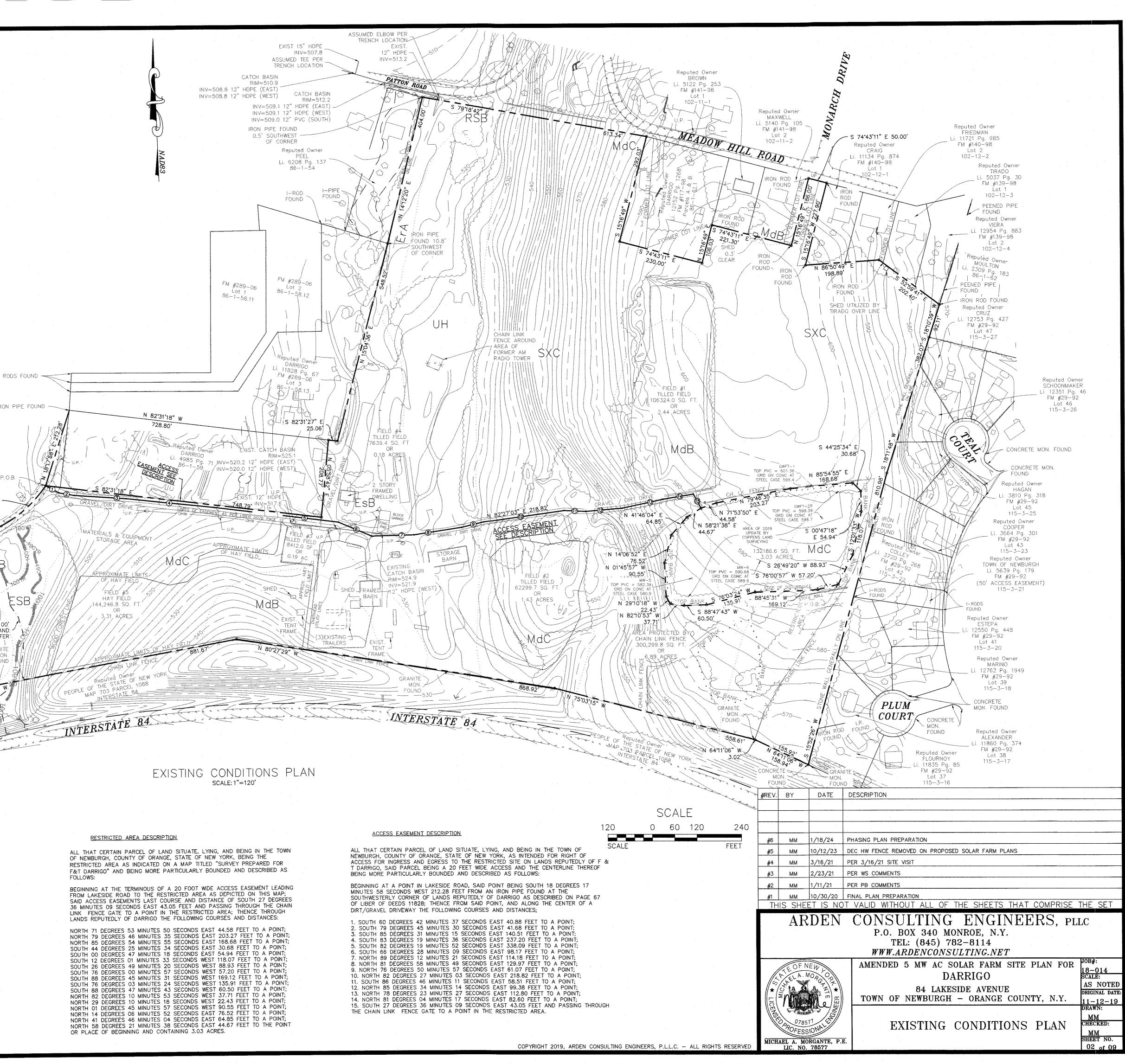
IRON PIPE FOUND -----

WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2 ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES

eputed Owne COSTUBBS LL Li. 4679 Pg. 86-1-39.3

OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.





1. SOUTH 60 DEGREES 42 MINUTES 37 SECONDS EAST 40.88 FEET TO A POINT;
2. SOUTH 79 DEGREES 45 MINUTES 30 SECONDS EAST 41.68 FEET TO A POINT;
3. SOUTH 85 DEGREES 31 MINUTES 15 SECONDS EAST 140.51 FEET TO A POINT;
4. SOUTH 83 DEGREES 19 MINUTES 36 SECONDS EAST 237.20 FEET TO A POINT;
5. SOUTH 82 DEGREES 19 MINUTES 52 SECONDS EAST 338.09 FEET TO A POINT;
6. SOUTH 66 DEGREES 28 MINUTES 09 SECONDS EAST 98.17 FEET TO A POINT;
7. NORTH 89 DEGREES 12 MINUTES 21 SECONDS EAST 114.18 FEET TO A POINT;
8. NORTH 81 DEGREES 58 MINUTES 49 SECONDS EAST 129.97 FEET TO A POINT;
9. NORTH 76 DEGREES 50 MINUTES 57 SECONDS EAST 61.07 FEET TO A POINT;
10. NORTH 82 DEGREES 27 MINUTES 03 SECONDS EAST 218.82 FEET TO A POINT;
11. SOUTH 86 DEGREES 46 MINUTES 11 SECONDS EAST 58.51 FEET TO A POINT;
12. NORTH 85 DEGREES 34 MINUTES 14 SECONDS EAST 99.38 FEET TO A POINT;
13. NORTH 78 DEGREES 23 MINUTES 27 SECONDS EAST 112.80 FEET TO A POINT;
14. NORTH 81 DEGREES 04 MINUTES 17 SECONDS EAST 82.60 FEET TO A POINT;
15. SOUTH 27 DEGREES 36 MINUTES 09 SECONDS EAST 43.05 FEET AND PASSING 1
THE CHAIN LINK FENCE GATE TO A POINT IN THE RESTRICTED AREA

ZONING NOTES:

- 1. NORTHERN & EASTERN ZONING SETBACKS WERE ESTABLISHED BY THE ZONING BOARD OF APPEALS.
- THE EXISTING 50' OF TREE LINE AT THE PROPERTY LINE SHALL REMAIN.
 PARCEL IS LOCATED WITHIN THE R1 ZONING DISTRICT.

SITE PLAN NOTES:

1. THE SEASONAL HALLOWEEN EVENT IS A MULTI-ATTRACTION EXPERIENCE WHICH OPERATES ON WEEKENDS ONLY BEGINNING THE SECOND WEEK OF SEPTEMBER AND RUNNING THROUGH MID NOVEMBER. HOURS OF OPERATION FOR THIS EVENT ARE 7PM TO MIDNIGHT. THE NYS DEPARTMENT OF LABOR REQUIRES AN ANNUAL PERMIT TO OPERATE EACH YEAR. THE TOWN OF NEWBURGH SHALL BE PROVIDED WITH A COPY OF THIS PERMIT EACH YEAR AND SHALL BE PERMITTED TO CONDUCT THEIR OWN INSPECTIONS AS REQUIRED. THE SEASONAL HALLOWEEN EVENT SHALL BE ERECTED AND SUBSEQUENTLY TAKEN DOWN FOR STORAGE EACH YEAR.

2. A DEMOLITION PERMIT MUST BE OBTAINED FORM THE TOWN OF NEWBURGH PRIOR TO THE DEMOLITION OF REMOVAL OF ANY STRUCTURE.

3. TRAILERS AND OTHER STORAGE STRUCTURES TO BE RELOCATED SHALL REMAIN IN USE EACH YEAR.

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EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER

THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED

AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

Dig Safely. New York

OWNER'S CONSENT NOTE:

THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS PLAN, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF ORANGE, IF SO REQUIRED.

DECORATIVE GATE

WETLAND

BUFFER

NÝSĎÉĆ

WETLAND

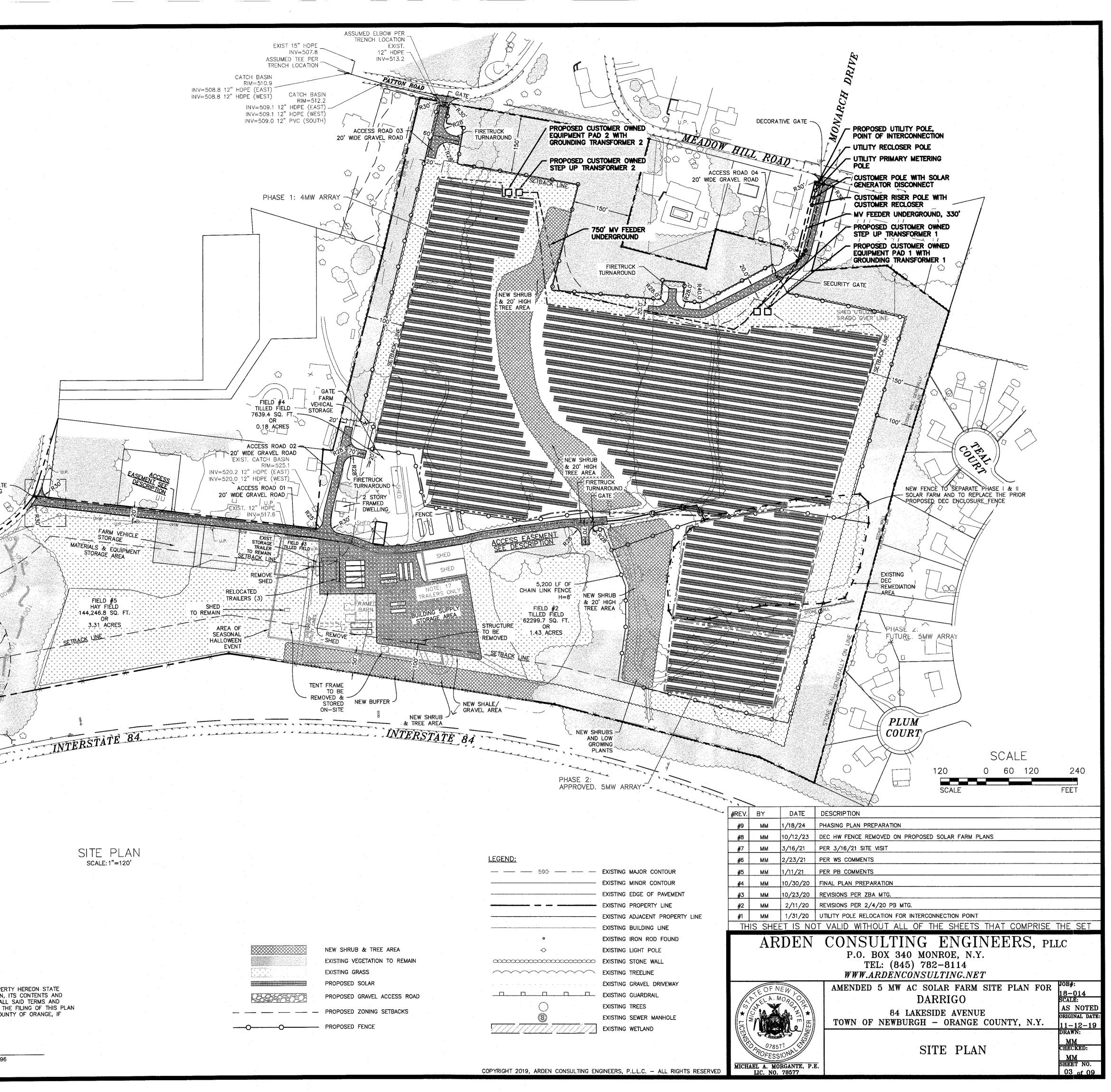
100' WETLAND BUFFER

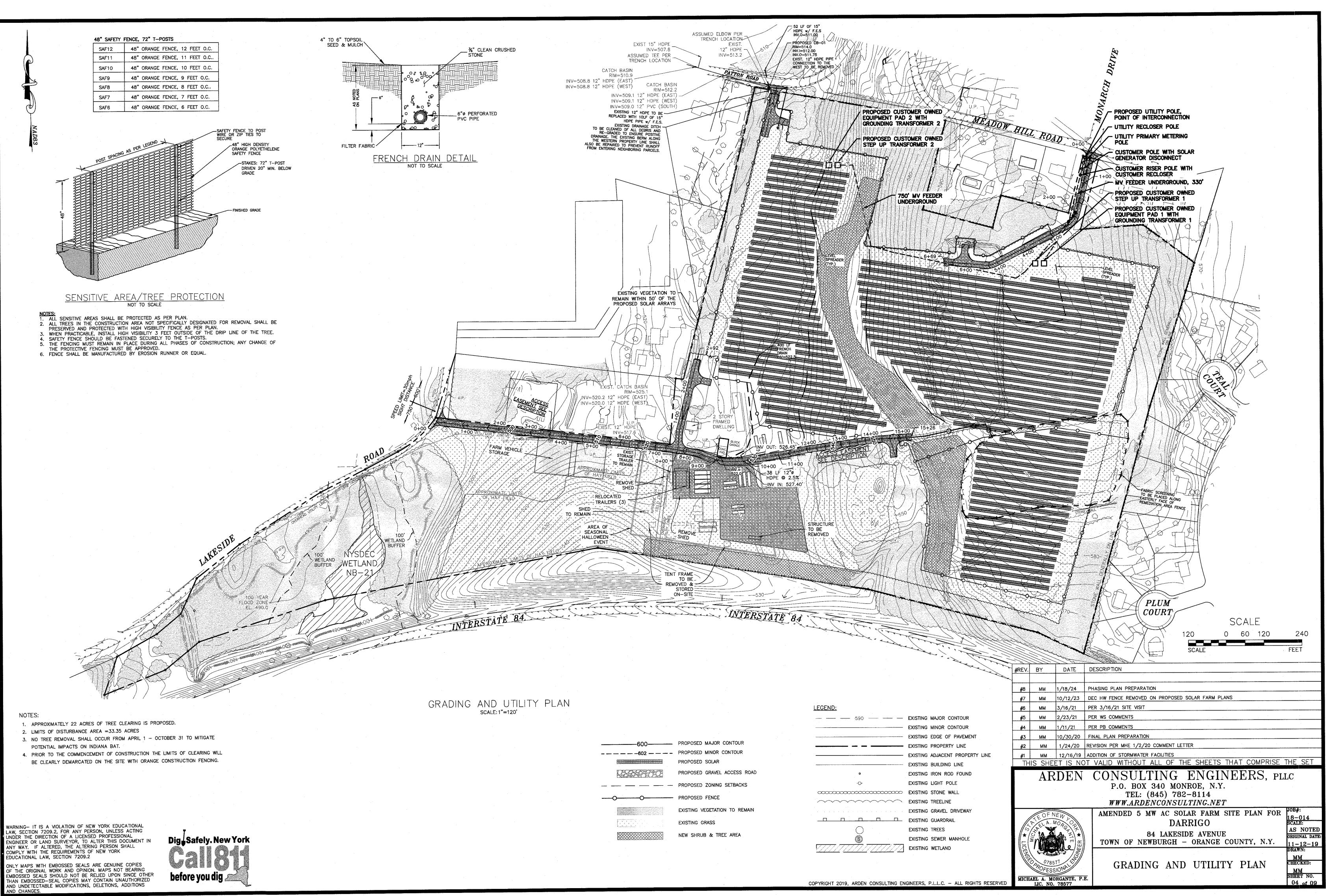
IOO YEAR

FLOOD ZONE-

EL. 490.0

& LANDSCAPING





1"=120'				
			<u> </u>	ΕX
			i	ΕX
				ΕX
	600	PROPOSED MAJOR CONTOUR		ΕX
		PROPOSED MINOR CONTOUR	 ·	ΕX
		PROPOSED SOLAR		EX
	23604250767	PROPOSED GRAVEL ACCESS ROAD	o	EX
		PROPOSED ZONING SETBACKS	-O-	ΕX
· .				ΕX
	O	PROPOSED FENCE		ΕX
		EXISTING VEGETATION TO REMAIN		ΕX
-	envision and a second	EXISTING GRASS		ΕX
				ΕX
		NEW SHRUB & TREE AREA	Ś	EX
			777777777777777777777777777777777777777	ΕX

SET TOP OF BLANKET -IN A 6"x6" TRENCH BACKFILL W/ SOIL SLOP STABILIZATION OVERLAP BLANKETS 4" MIN. STAPLE ALONG SEAMS AT 12" O.C. STABILIZED />> ึกไ AND WITHIN BLANKET @ 3' O.C. CONSTRUCTION ENTRANCE WITH 8" WIRE STAPLES SLOPE STABILIZATION DETAIL NOT TO SCALE STABILIZE PREPARED EARTHEN SLOPE WITH A BIODEGRADABLE NATURAL FIBER NETTING APPROVED TYPES ARE AS FOLLOWS: -C350 -NORTH AMERICAN GREEN #1-800-772-2040 -ECOCOIR 9000- EASTERN PRODUCTS, INC. #1-201-234-5050 -ERO-MAT V125C- EROSION CONTROL TECH. #1-800-245-0551 -ALL SLOPE RESTORATION TO GET 4" TOPSOIL SEED SLOPE PRIOR TO INSTALLING EROSION CONTROL NETTING. AFTER NETTING IS INSTALLED, PLANT GROUND-COVER THROUGH SLITS CUT IN FABRIC. STABILIZED CONSTRUCTION ENTRANCE FARM VEHICLE STORAGE REMOV SILT FENCE SHEE RELOCATED TRAILERS (SHED) REMAIN STRUCTURE AREA OF <u>
</u> TO BE SEASONAL REMOVE REMOVED HALLOWEEN SHED EVENT TENT FRAME TO BE REMOVED & ----STORED : ON-SITE INTERSTÀTE 84. INTERSTÀTE 84. EROSION CONTROL PLAN THIS EROSION CONTROL PLAN SHALL BE USED SCALE: 1"=120' FOR EROSION CONTROL METHODS AND LOCATIONS LIMITS OF DISTURBANCE AREA: 1,242,930 (28.53 ACRES) ONLY. DO NOT USE THIS PLAN FOR BUILDING, PAVED AREA, UTILITY LOCATIONS, etc. -36" MIN. FENCE POST — 10' MAX C. TO C. — WOVEN WIRE - WOVEN WIRE FENCE FENCE W/ FILTER-CLOTH COVER THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR THE CONSTRUCTION AND MAINTENANCE OF UNDISTURBED GROUND EMBED FILTER THE MEASURES AS DETAILED ON THIS PLAN AND CLOTH 6" MIN. ACCOMPANYING TECHNICAL SPECIFICATIONS INTO GROUND PERSPECTIVE VIEW SECTION SCALE CONSTRUCTION NOTES FOR FABRICATED SILT FENCE 120 120 240 60 WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES. 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE SCALE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING SHALL BE OVERLAPPED BY 6" AND FOLDED. UNDER THE DIRECTION OF A LICENSED PROFESSIONAL Dig_Safely. New York ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE. ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK POST: STEEL EITHER 'T' OR 'U' TYPE OR 2" HARDWOOD EDUCATIONAL LAW, SECTION 7209.2 FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING FILTER CLOTH: FILER X. MIRAFI 100X. STABILINKA T140N OR APPROVED EQUAL ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES PREFABRICATED UNIT: GEIOFAB, ENVIROFENCE, OR APPROVED EQUAL. OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER before you dig SILT FENCE DETAIL THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.



NOTES:

36" MIN. FENCE POST

DRIVEN 16" MIN. INTO

HEIGHT OF FILTER

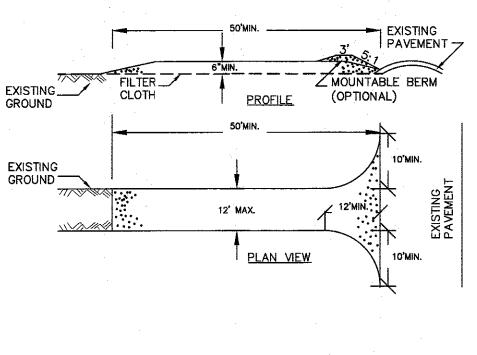
GROUND LINF

8" MINIMUM

16" MINIMUM

THE GROUND

- 1. APPROXIMATELY 22 ACRES OF TREE CLEARING IS PROPOSED.
- 2. LIMITS OF DISTURBANCE AREA =28.53 ACRES
- 3. NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT.
- 4. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE LIMITS OF CLEARING WILL BE CLEARLY DEMARCATED ON THE SITE WITH ORANGE CONSTRUCTION FENCING.



STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

E&SC MAINTENANCE NOTES:

- 1. SILT FENCE: MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES' DEVELOP IN THE SILT FENCE.
- 2. STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERCOURSES.
- 3. CONSTRUCTION ROAD STABILIZATION: INSPECT CONSTRUCTION ROADS AND PARKING AREAS
- BROOM SWEPT DAILY.
- SHOWN ON THE DRAWINGS.
- ONE TIME.
- INSTALLED IN #2 ABOVE AND MAINTAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION AND ALL PAVEMENTS ARE PAVED WITH A BASE COURSE.
- FOR VEGETATIVE ESTABLISHMENT. 9. IF CONSTRUCTION IS SUSPENDED OR COMPLETED, ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED
- AND SLOPE STABILIZATION MATTING.
- ESTABLISHMENT ON THIS SHEET. 11. INSTALL LEVEL SPREADERS AND FLOW DIFFUSERS AS SHOWN ON THE PLANS.
- 12. INSTALLATION OF GROUND MOUNTED SOLAR ARRAYS CAN COMMENCE AFTER CONSTRUCTION OF LEVEL REQUIRED DURING INSTALLATION OF SOLAR ARRAYS.
- NECESSARY TO PREVENT THEIR BEING CLOGGED UP WITH SEDIMENT.
- REMOVE SEDIMENT BARRIERS AND SEED THOSE DISTURBED AREAS.
- PERIODICALLY INSPECTED TO INSURE STRUCTURAL INTEGRITY, TO DETECT VANDALISM DAMAGE, AND FOR CLEANING AND REPAIR WHENEVER NECESSARY.
- INSPECTED AT LEAST SEMI-ANNUALLY AND AFTER EVERY RAIN.

PERMANENT SEEDING

PERMANENT SEEDING A. SEEDBED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS OF DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-20-20 FERTILIZER PER 1,000 HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER THAN 3:1.

- **B. PERMANENT SEEDING** MIXTURE - ERNST MIX#157 YELLOW BLOSSOM SWEET CLOVER 25%
- ALSIKE CLOVER 25% CRIMSON CLOVER 15% RED CLOVER 20%
- WHITE CLOVER 15%

A. MIX #157 TO BE APPLIED AT A RATE OF 10 LBS./ACRE B. PRIOR TO CLOVER MIX APPLICATION, A FESCUE SEED MIXTURE SHALL BE APPLIED AND ESTABLISHED.

<u>MULCHING:</u> MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING. MULCH SHALL BE UNROTTED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY, OR BY HAND TO A DEPTH OF 1-2 INCHES. D. SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATIONS TO MINIMIZE MOVEMENT OF WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED: USE A MULCH ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR FABRIC TYPE MULCH INTO THE SOIL

LIMITED TO RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY. WATER.

VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION. IV. LIGHTWEIGHT NETTING, MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURERS' RECOMMENDATIONS. 2. FILL: NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL TO BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH

LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL FILL IN ROADWAYS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 2 COMPACTED TO 90% DENSITY; COMPACTION TO BE DETERMINED BY ASTM D-1557-66T (MODIFIED PROCTOR) ANY FILL WITHIN THE BUILDING AREA IS TO BE COMPACTED TO A MINIMUM OF OF 95% AS DETERMINED BY METHODS PREVIOUSLY MENTIONED. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTED AS PER THE PROJECT ENGINEER'S SPECIFICATIONS. ALL OTHER FILLS SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAGE.

3. PERMANENT SOD: INSTALLATION OF SOD SHOULD FOLLOW THE P SOD; LIME AND FERTILIZER PER PERMANENT SEEDIN IS TO BE LAID ON THE CONTOUR WITH ALL ENDS AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOM TO BE PERMANENTLY SODDED OR PROTECTED WITH ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO TRANSPLANTED WHEN MOISTURE CONTENT (DRY OR

IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATIC

DEEP RIPPING & DECOMPACTION: AREAS OR TREE CLEARING AND SOLAR ARRAY INSTALLAT RIPPING & DECOMPACTION IN ORDER TO RETURN THESE PRE-DEVELOPMENT HYDROLOGIC CONDITIONS. SITE SOILS SOIL GROUP "C". DEEP RIPPING AND DECOMPACTION SH ACCORDANCE WITH THE NYSDEC DIVISION OF WATER "DE DECOMPACTION" GUIDANCE DOCUMENT DATED APRIL 2008

CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONC 2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE F POINTS WHERE INGRESS OR EGRESS OCCURS. THE NYCDEP WILL NO WIDTH WIDER THAN 12' DUE TO THE EXISTING WIDTH OF THE TRAV
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR OF STONE.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED STRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERM
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A COND PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC MUST BE REMOVED IMMEDIATELY.
- 8. WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON A AREA STAB STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVI
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WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL AGGREGATE. ALL SEDIMENT SPILLED, DROPPED OR WASHED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL

PERIODICALLY FOR CONDITION OF SURFACE. TOP-DRESS WITH NEW GRAVEL AS NEEDED. CHECK DITCHES FOR EROSION AND SEDIMENTATION AFTER RAINFALL EVENTS. MAINTAIN VEGETATION IN A HEALTHY, VIGOROUS CONDITION. AREAS PRODUCING SEDIMENT SHOULD BE TREATED IMMEDIATELY. SEDIMENT AND EROSION CONTROL NOTES & CONSTRUCTION SEQUENCING 1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES FOR ALL ROAD AND DRIVE ENTRANCES. STREETS SHALL BE

2. INSTALL SEDIMENT BARRIERS/SWALES/DITCHES/DIKES AT DOWN SLOPE AREAS FROM ALL PROPOSED GRADING OPERATIONS, AND INSTALL OTHER SEDIMENTATION AND EROSION CONTROL STRUCTURES OR MEASURES AS

3. LAND DISTURBANCE SHALL BE LIMITED TO ONLY THAT AREA NECESSARY FOR DEVELOPMENT. A WAIVER HAS BEEN RECEIVED FROM THE TOWN OF NEWBURGH TO DISTURB MORE THAN FIVE (5) ACRES OF UNPROTECTED SOIL AT

4. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, THEN STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED. SEED STOCKPILED TOPSOIL WITH TEMPORARY RYEGRASS COVER AS SPECIFIED BELOW (SEE NOTE 8), AND ERECT A SILT FENCE AROUND THE STOCKPILE. 5. PROTECT ALL TREES WHICH ARE TO REMAIN AND WHICH ARE IN OR NEAR CONSTRUCTION AREAS. 6. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE. 7. INSTALL SEDIMENT BARRIERS AROUND ALL STORM DRAIN INLETS, OR MODIFY SEDIMENT CONTROL MEASURES

8. TEMPORARILY SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OF 14 DAYS OR

MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 30 DAYS IN ACCORDANCE WITH SPECIFICATION

IMMEDIATELY. ALL SLOPES STEEPER THAN ONE ON THREE (V/H) AND PERIMETER TRENCHES AND TRAP EMBANKMENTS SHALL, ON COMPLETION, BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING

10. AFTER COMPLETION OF SITE CLEARING, FINE GRADE AND SPREAD TOPSOIL ON ALL AREAS NOT REQUIRED FOR CONSTRUCTION AND SEED WITH PERMANENT LAWN MIX AS DISCUSSED ON THE SPECIFICATIONS FOR VEGETATIVE

SPREADERS AND FLOW DIFFUSERS IS COMPLETE. SILT FENCE AND ADDITIONAL SEEDING AND MULCHING WILL BE 13. DURING THE PROGRESS OF CONSTRUCTION, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS

4. AFTER PAVEMENTS ARE INSTALLED AND PERMANENT VEGETATIVE COVER AND PLANTINGS ARE ESTABLISHED,

15. MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER. 16. STRUCTURAL MEASURES MUST BE MAINTAINED TO BE EFFECTIVE. IN GENERAL, THESE MEASURES MUST BE

DURING CONSTRUCTION, ALL STRUCTURES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAIN. REMOVE ACCUMULATED SEDIMENT AND STOCKPILE AND STABILIZE IN AN AREA NOT SUBJECT TO FURTHER EROSION. 18. AFTER CONSTRUCTION IS COMPLETED. PERMANENT SEDIMENT OR EROSION CONTROL STRUCTURES SHOULD BE

SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH, HOWEVER, IT IS II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT

OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF iii. LIQUID BINDERS MAY BE USED AND APPLIED HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN

- HAY BALES OR SILT FENCE -MIN. SLOPE INSTALLATION NOTES: 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE

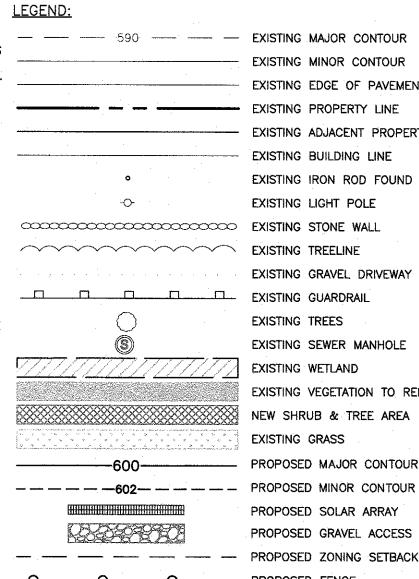
2. MAXIMUM SLOPE OF STOCKPILES SHALL BE 2:1.

STABILIZE ENTIRE PILE WITH

- COVER OR VEGETATION -

3. UPON COMPLETION OF SOIL STOCKPILING EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED. 4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILE DETAIL NOT TO SCALE



EXISTING MINOR CONTOUR EXISTING EDGE OF PAVEMENT EXISTING PROPERTY LINE EXISTING ADJACENT PROPERTY LINE EXISTING BUILDING LINE EXISTING IRON ROD FOUND EXISTING LIGHT POLE EXISTING GRAVEL DRIVEWAY EXISTING TREES EXISTING SEWER MANHOLE EXISTING WETLAND EXISTING VEGETATION TO REMAIN NEW SHRUB & TREE AREA EXISTING GRASS PROPOSED MAJOR CONTOUR PROPOSED SOLAR ARRAY PROPOSED GRAVEL ACCESS ROAD ----- --- PROPOSED ZONING SETBACKS -O-----O------O-------- PROPOSED FENCE LIMIT OF DISTURBANCE PROPOSED SILT FENCE

PERMANENT SEEDING DATES. PERMANENT SOD IS TO BE STATE APPROVED	
NG SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD	-
TIGHTLY ABUTTING. JOINTS ARE TO BE STAGGERED BETWEEN ROWS. WATER	
OT CONTACT WITH THE SOIL. ALL SLOPES STEEPER THAN 3:1, AS SHOWN, ARE	
APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR	
BE APPLIED ON FROZEN GROUND. SOD SHALL NOT BE HARVESTED OR	
WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL.	
ON SHOULD BE PERFORMED TO INSURE ESTABLISHED SOD.	

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	# 5	MM	3/16/21	PER 3/16/21 SITE VISIT	
	#4	MM	2/23/21	PER WS COMMENTS	
ICRETE EQUIVALENT.	#3	MM	1/11/21	PER PB COMMENTS	
DENCE LOT WHERE	#2	MM	10/30/20	FINAL PLAN PREPARATION	
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FULL WIDTH AT	TH	IS SHEE	ET IS NOT	VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE	THE SET
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TO PLACING				P.O. BOX 340 MONROE, N.Y.	
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C. – ALL RIGHTS RESERVED	MICHA	EL A. MO	RGANTE, P.E.		SHEET NO.
ALL MOITTS NEGERVED		LIC. NO.	78577		05 of 09

TEMPORARY SEEDING:

MULCHING AS REQUIRED ON SITES DIFFICULT TO VEGETATE (SANDS, SLOPES, OR HYDROSEEDINGS AND OFF-SEASON OPERATIONS).

A. MULCH MATERIALS SHALL BE UN-ROTTED SALT HAY, HAY OR SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE, OR 70 TO 90 POUNDS PER 1000 SQUARE FOOT. MULCH BLOWERS SHOULD NOT GRIND OR CHOP TILE MATERIAL. B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75 PERCENT TO 95 PERCENT OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

C. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING ON THE SIZE OF THE AREA, AND STEEPNESS OF SLOPES:

1. PEG AND TWINE: DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH, SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

2. MULCH NETTING: STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE TOP SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED 3. MULCH ANCHORING TOOL: (A TRACTOR DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE.) TOOL PENETRATION SHOULD BE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHALL BE DONE ON THE CONTOUR.

- 2:1 MAX. SLOPE

MIN. SLOPE

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 PROPOSED GRADE

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 1.5' COVER

 38 LF 12" CULVERT

 STA: 948.05

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 INV IN: 526.45

 INV OUT: 527.40

9-50 10+00 10+50

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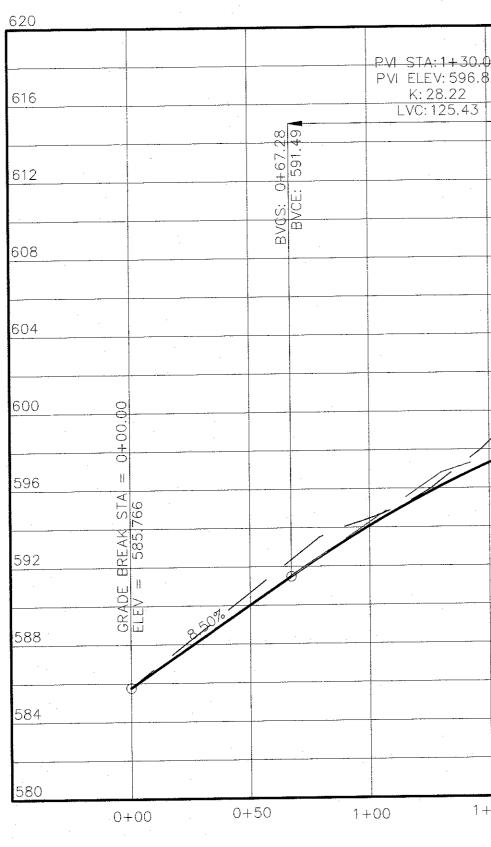
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#5	MM	10/12/23	DEC HW FENCE REMOVED ON PROPOSED SOLAR FARM PLANS
#4	MM	3/16/21	PER 3/16/21 SITE VISIT
# 3	MM	2/23/21	PER WS COMMENTS
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#1	MM	10/30/20	FINAL PLAN PREPARATION
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	AR	DEN	CONSULTING ENGINEERS, PLLC
	1 1 1		P.O. BOX 340 MONROE, N.Y.
			TEL: (845) 782-8114
	-		WWW.ARDÈNCÓNSULTING.NET
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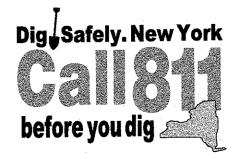
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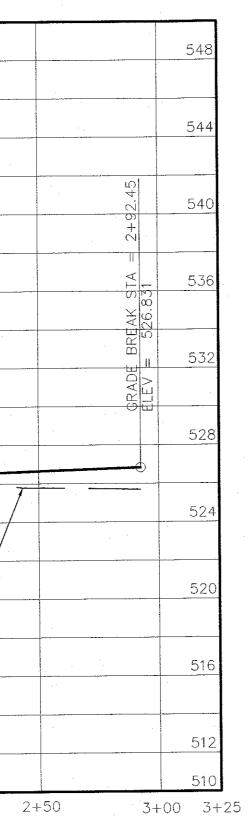
ACCESS ROAD 02 PROFILE HORIZONTAL: 1"=40' VERTICAL: 1"=5'



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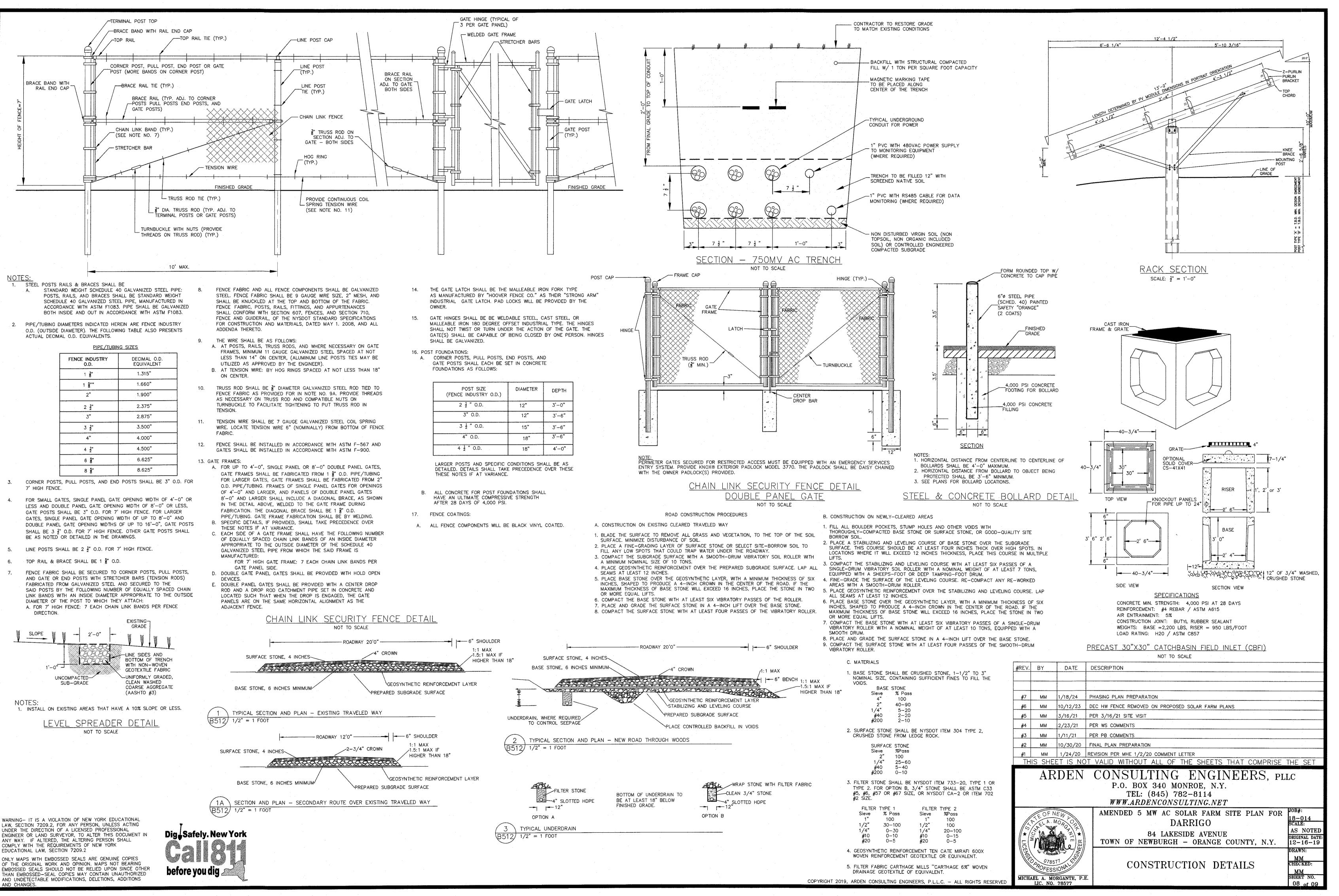
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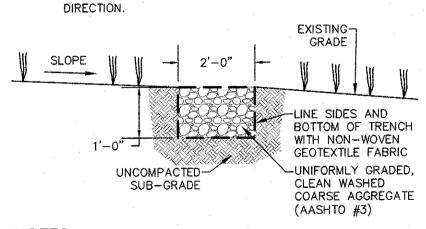
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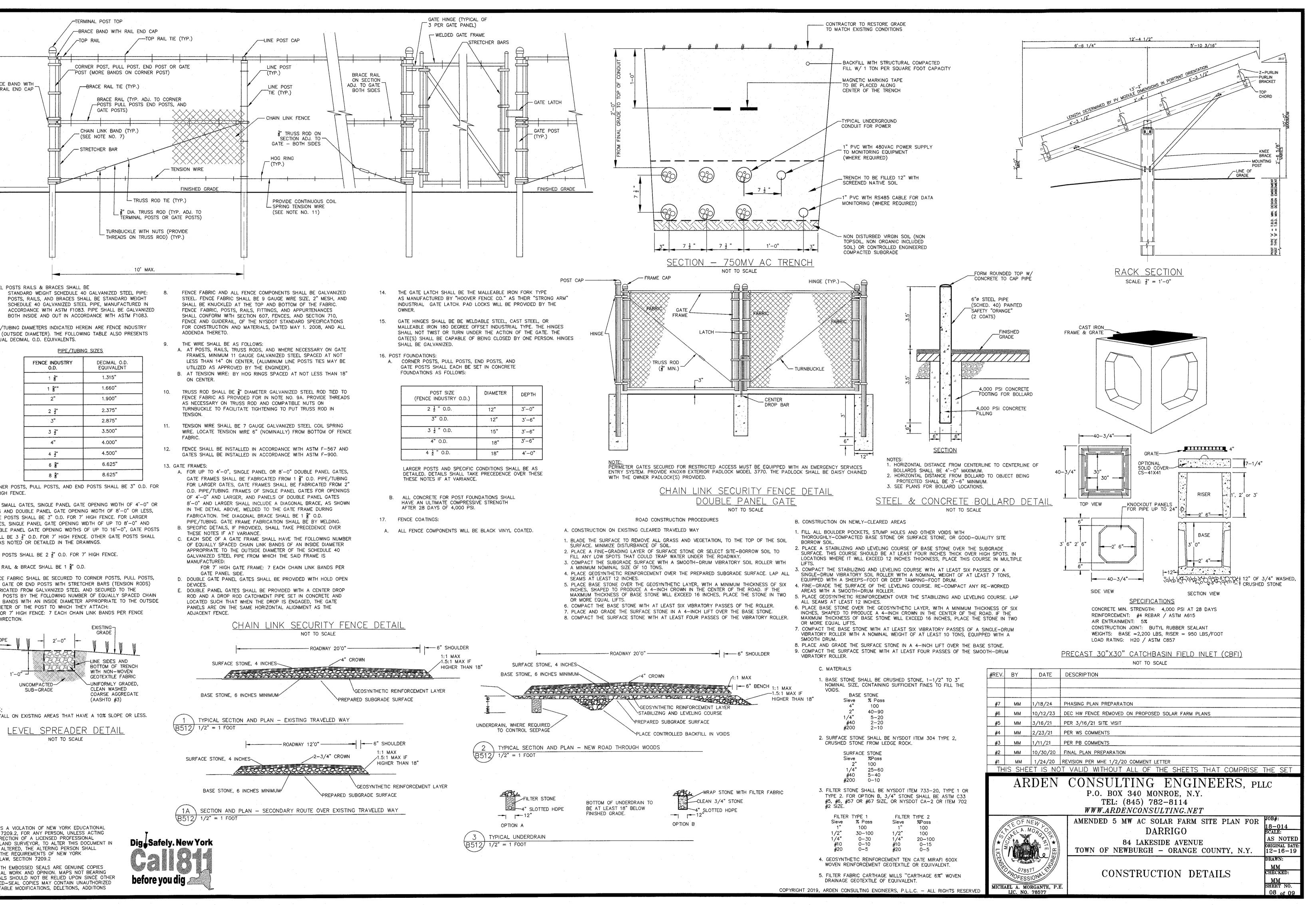
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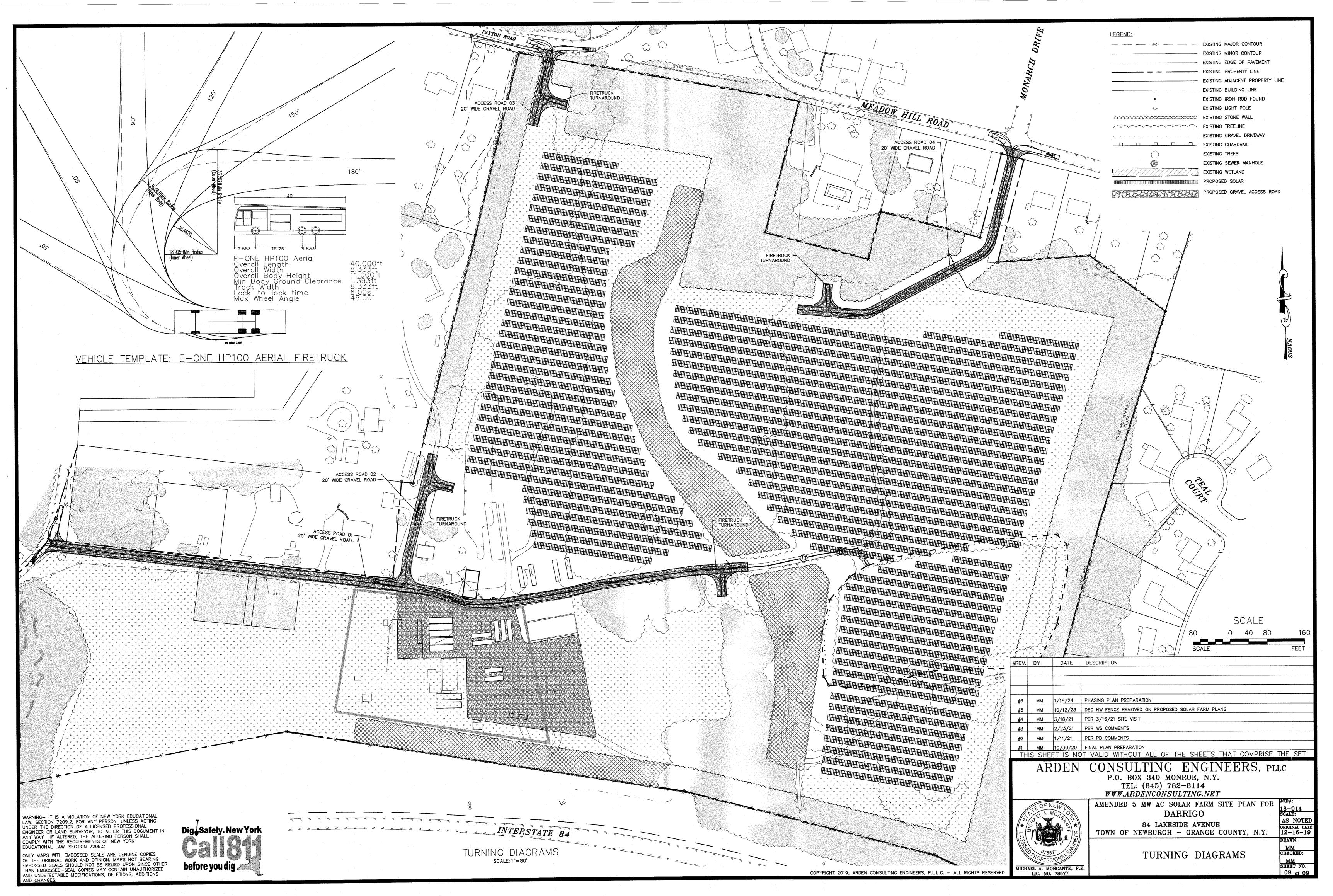
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		#3	MM	2/23/21	PER WS COMMENTS
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	PIPE/TUBI	NG SIZES
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	8 §"	8.625"







PLANTING NOTES:

- 1. ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMAL GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. PROVIDE QUALITY, SIZE, GENUS, SPECIES, VARIETY OF TREES AND SHRUBS INDICATED, AND ROOT BALL SIZE COMPLYING WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK." ALL PLANTS SHOULD BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
- 2. PLANT SIZES: MEASURE TREES AND SHRUBS ACCORDING TO ANSI Z60.1 WITH BRANCHES AND TRUNKS OR CANES IN THEIR NORMAL POSITION. TAKE CALIPER MEASUREMENTS 6 INCHES ABOVEGROUND FOR TREES UP TO 4-INCH CALIPER SIZE, MEASURE MAIN BODY OF TREE OR SHRUB FOR HEIGHT AND SPREAD; DO NOT MEASURE BRANCHES OR ROOTS TIP-TO-TIP.
- ALL CONTAINER GROWN PLANTS SHALL BE SIZED ACCORDING TO ANSI Z60.1 FOR TYPE AND SIZE OF PLANT REQUIRED. PLANTS SHALL BE PREMIUM QUALITY, APPEAR 'FULL', OR 'HEAVY' WITHIN THEIR CONTAINER, AND BE REPRESENTATIVE OF THE CONTAINER SIZE SPECIFIED. PLANTS DEEMED TO BE SUBSTANDARD IN SIZE BY THE LANDSCAPE ARCHITECT WILL BE REJECTED.
- ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN UNLESS OTHERWISE NOTED ON PLANT LIST.
- 5. TREES SHOULD BE FRESHLY DUG DURING THE SEASON OF PLANTING. PLANTS KNOWN AS FALL DIG HAZARDS SHALL BE DUG IN THE SPRING ONLY.
- 6. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- 7. IN GENERAL, PLANT SPECIES SUBSTITUTIONS WILL NOT BE ACCEPTED. IF SPECIFIED MATERIAL IS NOT OBTAINABLE, CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT ALONG WITH PROPOSED SUBSTITUTION. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, SIZE, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. CONTRACTOR SHALL REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.

TRUNK CALIPER SHALL MEET ANSI

Z60 CURRENT EDITION

SCALE: NTS

CROSS REFERENCE: NONE

L110

- 9. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- 10. THE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PROPOSED PLANT MATERIAL AND PLANT BEDS FOR APPROVAL BY THE DEVELOPER OR DEVELOPER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF PLANTING.
- 11. INSTALLED PLANTS SHALL BEAR THE SAME RELATIONSHIP TO PROPOSED GRADE AS THEY BORE TO PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- 12. CONTRACTOR SHALL PROVIDE LONG LASTING, SLOW RELEASE STARTER FERTILIZER IN EACH PLANTING PIT FOR TREES, SHRUBS AND PERENNIALS.
- 13. ALL PLANT BEDS SHALL RECEIVE THREE INCHES (3") OF SHREDDED BARK MULCH. MULCH SHALL BE FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS, CONSISTING OF DOUBLE HAMMERED SHREDDED BARK MULCH COMPRISED OF EITHER HARDWOOD OR SOFTWOOD SHREDDED BARK. SHREDDED BARK MULCH SHALL NOT EXCEED 3" IN GREATEST DIMENSION, AND SHALL BE DARK BROWN IN COLOR.
- 14. PLANTS SHALL BE DELIVERED ONLY AS THEY CAN BE INSTALLED IN REASONABLE TIME. ALL PLANTS ARE SUBJECTED TO INSPECTION AT DELIVERY BY THE LANDSCAPE ARCHITECT / OWNER'S REPRESENTATIVE.
- 15. IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- 16. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE FOR A MINIMUM 30-DAY MONITORING PERIOD AFTER NOTIFICATION OF SUBSTANTIAL COMPLETION, AND UNTIL FINAL ACCEPTANCE, WHICHEVER IS GREATER. MAINTENANCE INCLUDES PRUNING, WEEDING, WATERING, FERTILIZATION, AND RE-SEEDING AS NECESSARY.
- 17. PROTECT PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND OPERATIONS OF OTHER CONTRACT MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED ORS AND TRADES. MAINTAIN PROTECTION **DURING INSTALLATION AND PLANTINGS.**
- 18. FOLLOWING THE ISSUANCE OF THE CERTIFICATE OF SUBSTANTIAL COMPLETION TO THE CONTRACTOR, THE CONTRACTOR SHALL MAINTAIN THE PLANTS FOR THE MAINTENANCE PERIOD SPECIFIED IN THIS SECTION.

19. ACCEPTANCE STANDARDS AT END OF THE MAINTENANCE PERIOD:

- UNEVEN SETTLING OR LEANING.
- EXCEEDING 5"X5".
- 20. GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL TO REMAIN ALIVE AND BE IN A AGAINST DEFECTS INCLUDING DEATH AND AS SPECIFIED ON THE PLANTING LIST.
- 21. SEED MIXES TO BE BROADCAST SPREAD: FRESH, CLEAN, WEED SEED, AS FOLLOWS:

Erosion Control & Revegetation for Sloped Areas:

Ernst Seed Mix ERNMX-181 (Native Steep Slope Mix w/Annual Ryegrass) or approved equal Seeding Rate: 60 Ib per acre, or 1.5 lb per 1,000 sq ft

acre

22. ALL SOIL AND TOPSOIL SHALL REMAIN ON SITE AND WILL NOT BE TRUCKED OFF SITE. REFER TO THE SOIL MANAGEMENT PLAN FOR THE DEC REMEDIATION AREA REQUIREMENTS.

SEE DETAIL 3 ON SHEET L501 FOR LANDSCAPE PLAN ENLARGEMENT

L110

PROPOSED TREE **REMOVE ALL BURLAP & ROPES** AND GATE DETAILS 2" DIAMETER UNPEELED FROM TOP HALF OF ROOTBALL CEDAR STAKE REMOVE WIRE BASKET ENTIRELY, IF HT OF STAKE SHALL BE 3 HT FROM PRESENT. REMOVE FINISHED GRADE TO FIRST BRANCH NON-BIODEGRADABLE BURLAP ENTIRELY, IF PRESENT. **3 STAKES PER TREE** - FINISHED GRADE BOTTOM OF TRUNK FLARE SHALL FORM 6" HIGH X 12" WIDE SAUCER BE EXPOSED AND SET 2" ABOVE OF SOIL AT EDGE OF ROOT BALL. FINISHED GRADE BERM SHALL BEGIN AT ROOT BALL PERIPHERY. LOOSENED SOIL. DIG AND TURN SOIL TO REDUCE THE POTENTIAL COVER TOPSOIL WITH COMPOST, 4" FOR COMPACTION. DO NOT TAMP. SETTLED DEPTH. UNDISTURBED SUBGRADE BOTTOM OF ROOT BALL RESTS ON-EXISTING OR RECOMPACTED SOIL MINIMUM OF 8 INCHES 2X ROOT BALL DIA. **TREE PLANTING DETAIL** SCALE: NTS L110 CROSS REFERENCE: NONE TOPSOIL- MIN 4" DEPTH HYDROSEED AND MULCH-AS PER TECHNICAL SPECIFICATIONS MOUND TOPSOIL 1/2 TO 1 INCH HIGHER THAN ADJACENT GRADE FOR SETTLEMENT - ADJUST SUBGRADE TO ALLOW FOR **TOPSOIL THICKNESS** NOTES: 1. REFERENCE PLAN SHEET FOR LIMITS OF SEED MIX. SEED MIXES VARY BETWEEN LAWN AND WILDFLOWER ESTABLISHMENT. LAWN AND WILDFLOWER SEEDING DETAIL

19.1. PLANTS SHALL BE FREE OF FROST CRACKS; SUN SCALD; DAMAGE DUE TO INSECTS, PESTS, AND DISEASE; STRUCTURAL DEFECTS; AND DAMAGE RESULTING FROM MACHINERY OR TOOLS. ALL PLANTS REGARDLESS OF THE SEASON OF REVIEW SHALL HAVE A MINIMUM OF 75 PERCENT HEALTHY, BALANCED BRANCHING STRUCTURE WITH A HEALTHY TERMINAL LEADER(S) WITH VIABLE TERMINAL BUD(S). TREES SHALL BE PLUMB AND SHOW NO SIGNS OF

19.2. LAWN AREAS SHALL HAVE A HEALTHY, UNIFORM STAND OF GRASS FREE OF WEEDS, SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90% OVER ANY 10 SQ. FT. AND BARE SPOTS NOT

HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF TWO YEARS AFTER FINAL ACCEPTANCE OF PLANTING WORK, UNSATISFACTORY WORK. CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MORE THAN 25% DEAD OR, AS DETERMINED BY THE LANDSCAPE ARCHITECT, ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION. CONTRACTOR SHALL BEAR THE COST OF COMPLETE REPLACEMENT(S). REPLACEMENTS SHALL BE OF THE SAME SIZE AND SPECIES

DRY. NEW-CROP SEED COMPLYING WITH AOSA'S "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES. PROVIDE SEED MIXTURE COMPOSED OF SPECIES, PROPORTIONS AND MINIMUM PERCENTAGES OF PURITY, GERMINATION, AND MAXIMUM PERCENTAGE OF

Buffer Area along I-84 and East Property Boundary:

Ernst Seed Mix ERNMX-111 (Ernst Native Habitat for Strip Mines Mix) or approved equal Seeding Rate: 20 lb per

MORE THAN 1" OF MULCH OVER ROOTBALL

-FINISHED GRADE - AMEND SOIL TO A MINIMUM OF 12 INCHES - UNDISTURBED SUBGRADE

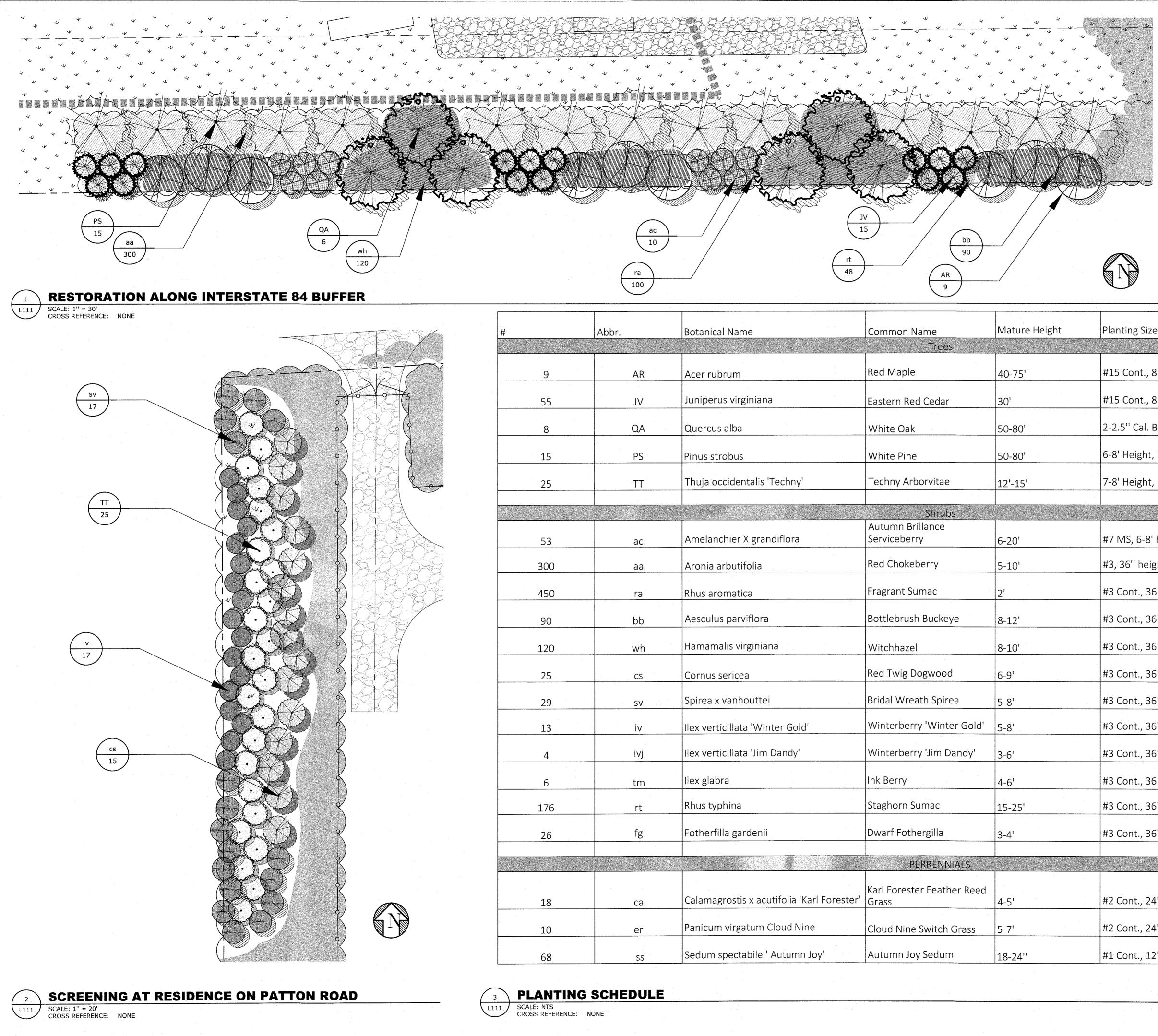
PRIOR TO PLACING MULCH, LIGHTLY TAMP SOIL AROUND ROOTBALL IN 6" LIFTS TO BRACE PLANT MATERIAL. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN

- ALL PLANTS TO BE PLANTED IN CONTINUOUS BEDS. NOT IN INDIVIDUAL PITS.
- LAWN EDGE, ALLOWING MULCH TO TAPER DOWN 2 TO 3 INCHES BELOW THE LAWN SURFACE.

SHRUB AND PERRENIAL PLANTING DETAIL

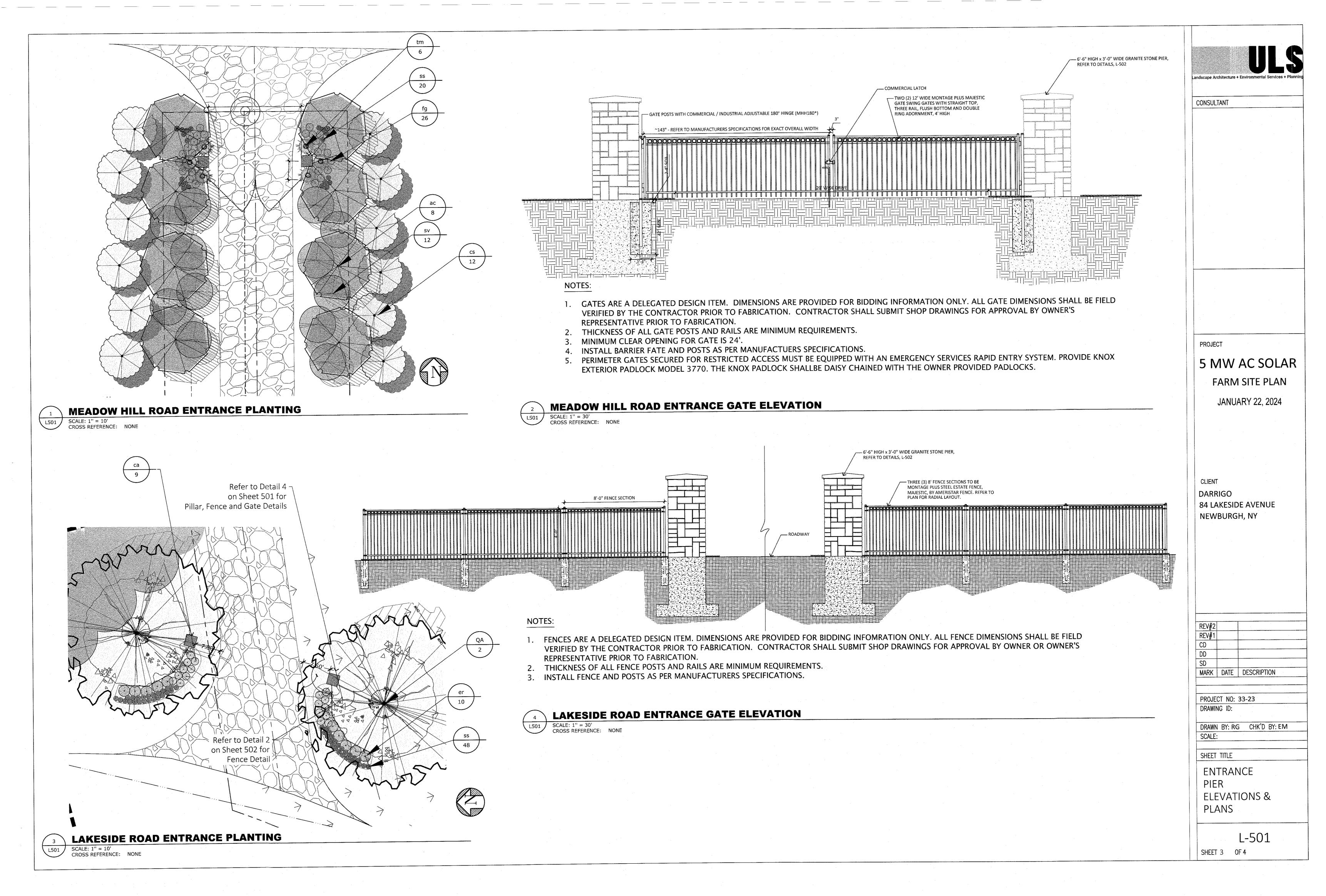
SCALE: NTS CROSS REFERENCE: NONE

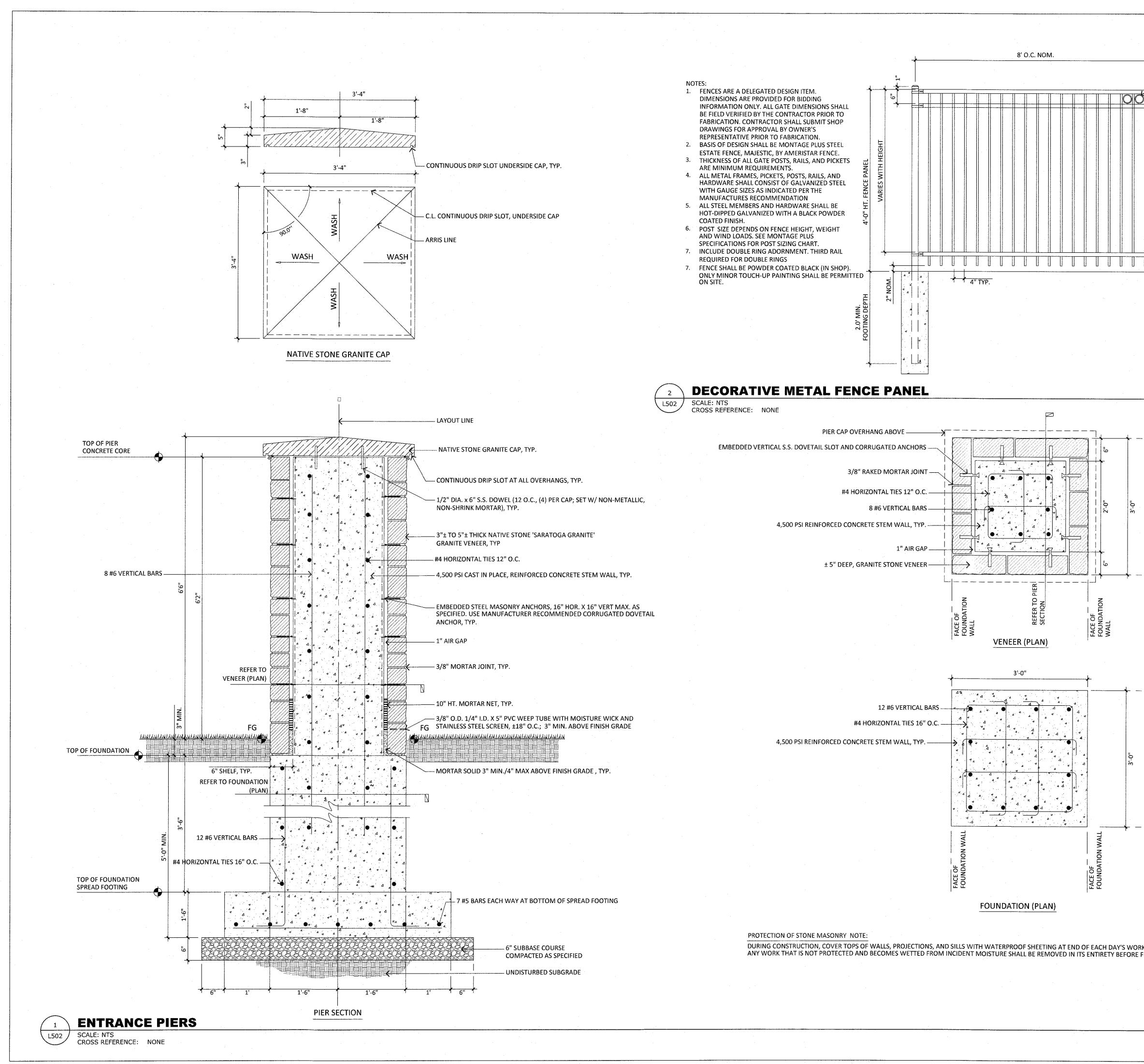




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	Abbr.	Botanical Name	Common Name	Mature Height	Planting Size	Spacing
			Trees			
9	AR	Acer rubrum	Red Maple	40-75'	#15 Cont., 8' height min.	As shown on plans
55	JV	Juniperus virginiana	Eastern Red Cedar	30'	#15 Cont., 8' height min.	As shown on plans
8	QA	Quercus alba	White Oak	50-80'	2-2.5" Cal. B&B, 12' hieght min.	As shown on plans
15	PS	Pinus strobus	White Pine	50-80'	6-8' Height, B&B	As shown on plans
25	TT	Thuja occidentalis 'Techny'	Techny Arborvitae	12'-15'	7-8' Height, B&B	As shown on plans
			Shrubs			
53	ac	Amelanchier X grandiflora	Autumn Brillance Serviceberry	6-20'	#7 MS, 6-8' height min.	As shown on plans
300	аа	Aronia arbutifolia	Red Chokeberry	5-10'	#3, 36'' height min.	5' O.C., As Shown
450	ra	Rhus aromatica	Fragrant Sumac	2'	#3 Cont., 36'' height min.	As shown on plans
90	bb	Aesculus parviflora	Bottlebrush Buckeye	8-12'	#3 Cont., 36" height min.	As shown on plans
120	wh	Hamamalis virginiana	Witchhazel	8-10'	#3 Cont., 36" height min.	As shown on plans
25	CS	Cornus sericea	Red Twig Dogwood	6-9'	#3 Cont., 36" height min.	5' O.C., As Shown
29	SV	Spirea x vanhouttei	Bridal Wreath Spirea	5-8'	#3 Cont., 36" height min.	5' O.C., As Shown
13	iv	Ilex verticillata 'Winter Gold'	Winterberry 'Winter Gold'	5-8'	#3 Cont., 36" height min.	5' O.C., As Shown
4	ivj	llex verticillata 'Jim Dandy'	Winterberry 'Jim Dandy'	3-6'	#3 Cont., 36" height min.	5' O.C., As Shown
6	tm	Ilex glabra	Ink Berry	4-6'	#3 Cont., 36 height min.	As shown on plans
176	rt	Rhus typhina	Staghorn Sumac	15-25'	#3 Cont., 36" height min.	8' O.C., As Shown
26	fg	Fotherfilla gardenii	Dwarf Fothergilla	3-4'	#3 Cont., 36'' height min.	As shown on plans
			PERRENNIALS			
			Karl Forester Feather Reed		#2 Cont. 2411 batabas	
18	Са	Calamagrostis x acutifolia 'Karl Forester'	Grass	4-5'	#2 Cont., 24" height min.	As shown on plans
10	er	Panicum virgatum Cloud Nine	Cloud Nine Switch Grass	5-7'	#2 Cont., 24" height min.	As shown on plans
68	SS	Sedum spectabile ' Autumn Joy'	Autumn Joy Sedum	18-24''	#1 Cont., 12'' height min.	As shown on plans

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INCLUDE DOUBLE RING ADORNMENT ON ALL FENCE PANELS	
	Landscape Architecture + Environmental Services + Planning
POST 2 $\frac{1}{2}$ X 16 GAUGE $\frac{3}{4}$ 18 GAUGE PICKET	CONSULTANT
BRACKET OPTIONS	
	PROJECT
-0- 	5 MW AC SOLAR FARM SITE PLAN JANUARY 22, 2024
	CLIENT DARRIGO 84 LAKESIDE AVENUE NEWBURGH, NY
NORK. JRE FURTHER WORK CONTINUES.	REV#2 REV#1 CD DD SD MARK DATE DESCRIPTION PROJECT NO: 33-23 DRAWING ID: DRAWN BY: RG CHK'D BY: EM SCALE: SHEET TITLE ENTRANCE
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	DETAILS
	L-502 SHEET 4 OF 4