

# SITE USE PERMIT SET

## SOUTH HILL ROAD, CHERRY CREEK, NY 14723 13.50 MWAC RATED WIND + ENERGY STORAGE ELECTRIC SYSTEM

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.

**new leaf energy**  
30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 538-4273  
FAX: (518) 843-6178  
WWW.NEWLEAFENERGY.COM

**ERDMAN ANTHONY**  
145 CULVER ROAD, SUITE 200  
ROCHESTER, NY 14623  
PHONE: (585) 427-0888  
WWW.ERDMANANTHONY.COM

NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	BY	CHKD	APP'D	RELEASE LEVEL
1	10/24/23	RO	DAK		PRELIMINARY SUP SET
	8/30/23	SEF	MDK		PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**T-1**  
TITLE PAGE

**GENERAL NOTES**

- AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM/PROJECT OWNER.
- WHEN THERE IS A CONFLICT BETWEEN THESE GENERAL NOTES AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS.
- THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A CONSTRUCTION LEVEL DESIGN AND ASSOCIATED DRAWINGS AND DETAILS.
- COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS.
- UNLESS OTHERWISE NOTED, THE DESIGN REPRESENTED ON THESE PLANS IS BASED ON THE INFORMATION AND CRITERIA LISTED IN THE "BASIS OF DESIGN" SECTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH INFORMATION IN PREPARATION OF THE CONSTRUCTION DESIGN.
- THE EXISTING CONDITIONS REPRESENTED ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE INFORMATION AND THE SITE DISCOVERY SUMMARIZED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF SUCH INFORMATION AND SUPPLEMENT WITH ANY ADDITIONAL REQUIRED INFORMATION.
- UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT SHALL BE CONSIDERED TO BE NEW.
- ALL EQUIPMENT AND COMPONENTS SHALL BE MOUNTED IN COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS, CONSTRUCTION DETAILS, AND/OR PRUDENT INDUSTRY STANDARDS.

**PROJECT SCOPE**

THE FACILITY IS A PROPOSED WIND-POWERED ELECTRIC GENERATION PROJECT CONSISTING OF 3 WIND TURBINES GENERATING UP TO 13.5 MEGAWATTS (MWAC) OF ELECTRICITY. THE PROJECT WILL INCLUDE WIND TURBINES, ACCESS ROADS, ELECTRICAL COLLECTION LINES, AND TEMPORARY CONSTRUCTION STAGING AND STORAGE AREAS. THE PROJECT WILL BE INTERCONNECTED TO THE EXISTING ELECTRICAL SYSTEM UPON COMPLETION.

THIS PROJECT CONSISTS OF THE INSTALLATION OF ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION, BELOW. THE ENERGY STORAGE MODULES WILL BE INSTALLED IN A PURPOSE BUILT UNIT(S), AND FIRE SUPPRESSION SYSTEMS. THE ENERGY STORAGE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED THROUGH DC/DC CONVERTERS, WHICH WILL CONVERT DC TO AC WHILE THE BATTERIES ARE DISCHARGING.

**SYSTEM DESCRIPTION**

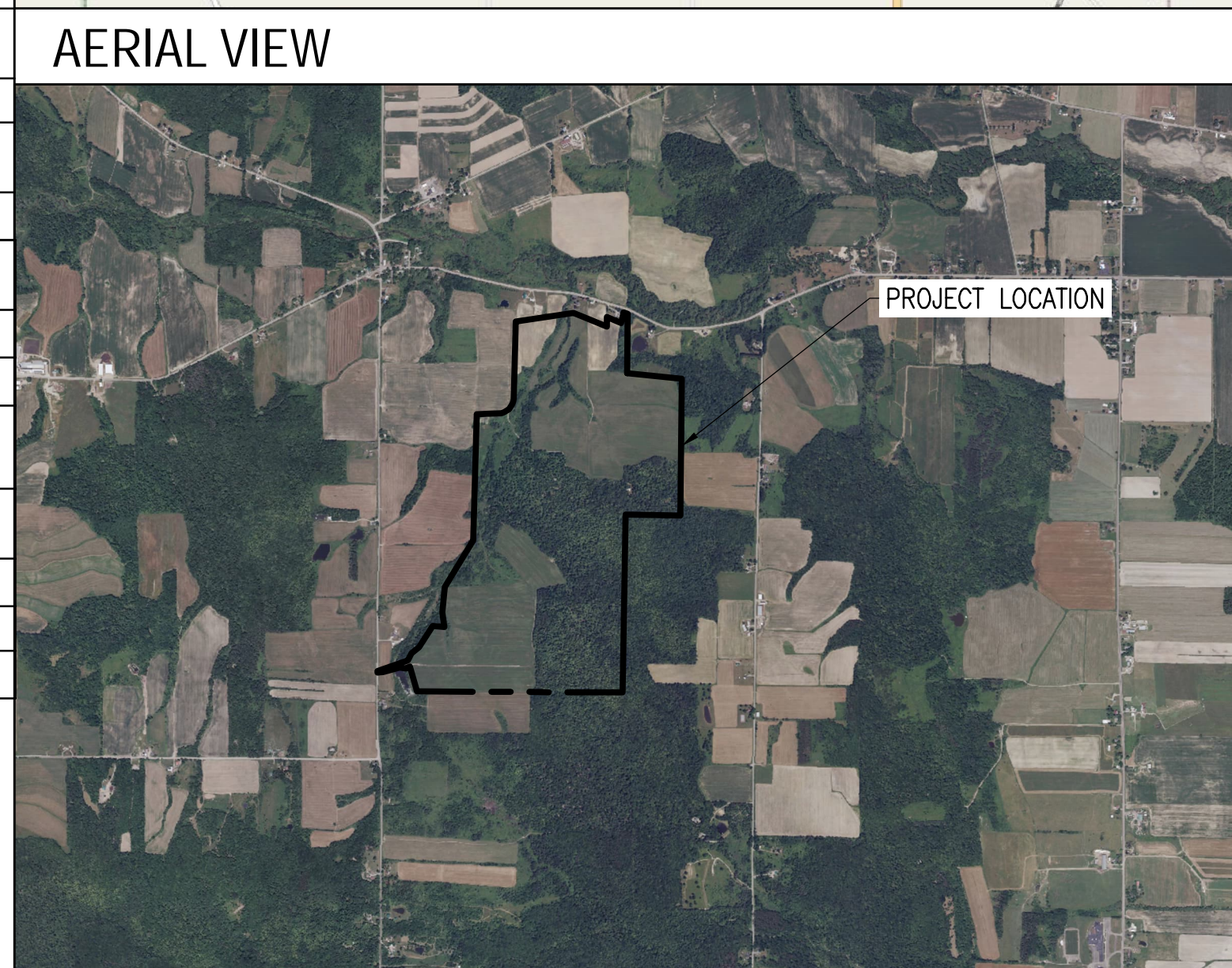
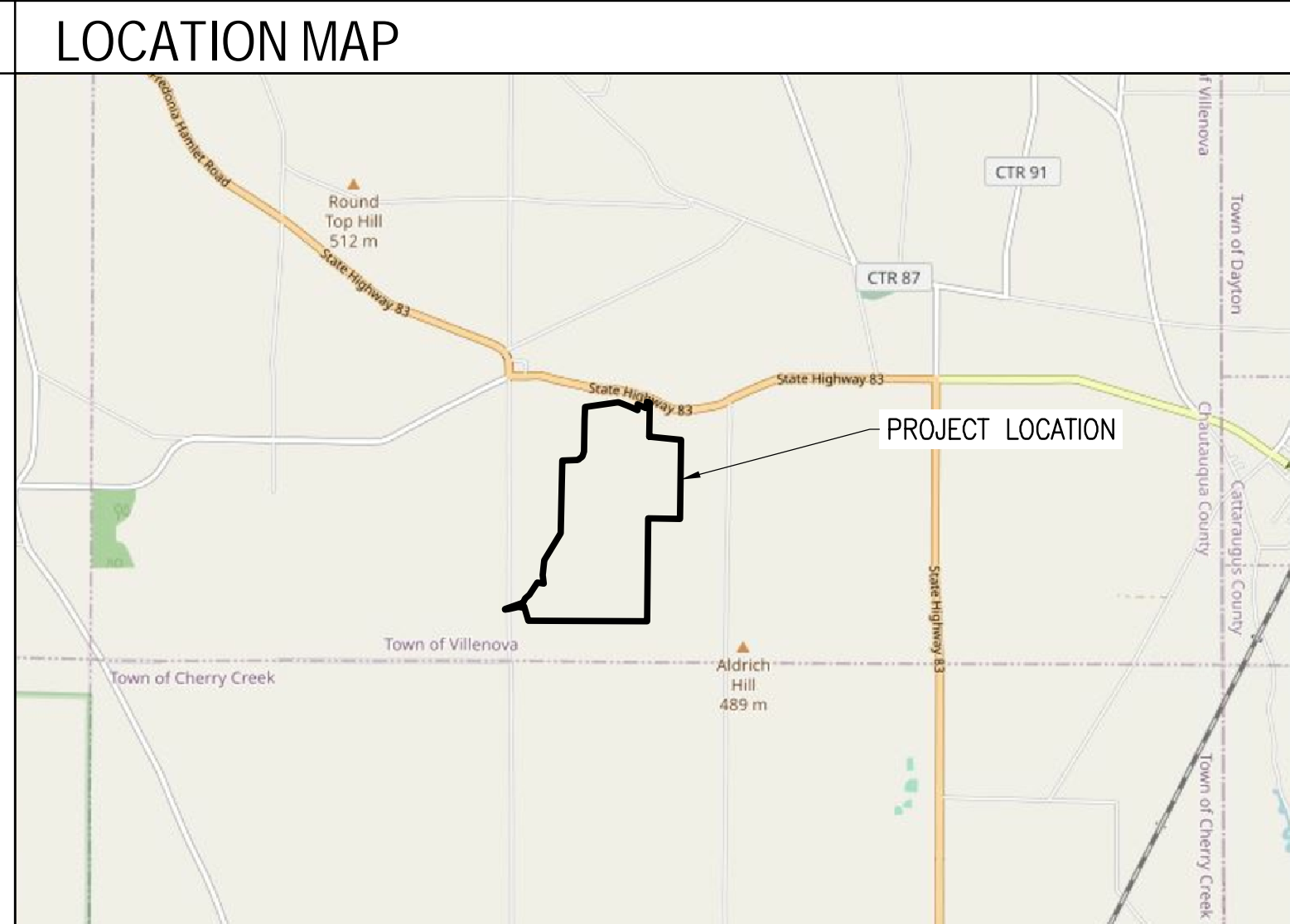
SYSTEM SIZE	13.5 MWAC	TURBINE MODEL	VESTAS V150
NUMBER OF TURBINES	3	ROTOR DIAMETER (FT)	493
HUB HEIGHT (FT)	394	TIP HEIGHT (FT)	650

**ENERGY STORAGE SYSTEM DESCRIPTION**

SYSTEM POWER CAPACITY	4500 X 3 KWAC (13500 KWAC TOTAL)
SYSTEM ENERGY CAPACITY	4 HOURS AT RATED POWER CAPACITY
POWER CONVERSION SYSTEM / INVERTER	SMA SC-3450-UP-US

**TOTAL SYSTEM DESCRIPTION**

TOTAL WIND+STORAGE POWER CAPACITY	4500 X 3 KWAC (13500 KWAC TOTAL)
MAXIMUM EXPORT TO UTILITY	13500 KWAC
STORAGE CHARGING MODE	WIND + GRID



**APPLICABLE CODES AND STANDARDS**

2017 NATIONAL ELECTRICAL CODE  
2020 BUILDING CODE OF NEW YORK STATE  
UL-1741 - INVERTERS  
UL-1642 - STANDARD FOR LITHIUM BATTERIES  
UL-1973 - STANDARD FOR BATTERIES FOR USE IN LIGHT ELECTRIC RAIL (LER) APPLICATIONS AND STATIONARY APPLICATION  
UL-9540 - STANDARD FOR ENERGY STORAGE SYSTEM AND EQUIPMENT

**PROJECT DIRECTORY**

<p><b>SYSTEM / PROJECT OWNER</b> VILLENOVA WIND 3, LLC VILLENOVA WIND 4, LLC VILLENOVA WIND 5, LLC 800-818-5249 55 TECHNOLOGY DR, SUITE 102 LOWELL, MA 01851</p> <p><b>LAND OWNER / HOST</b> NELSON B.S. NOBLES (716) 490-4707 7690 ROUTE 83, SOUTH DAYTON NY 14138</p> <p><b>AUTHORITY HAVING JURISDICTION</b> TOWN OF VILLENOVA 1094 BUTCHER ROAD VILLENOVA, NY 14138</p> <p><b>UTILITY</b> NYSEG</p>	<p><b>CIVIL ENGINEER</b> FIRM: ERDMAN ANTHONY CONTACT: MARC KENWARD PHONE: (585) 427-8888</p> <p><b>DESIGN ENGINEER</b> FIRM: NEW LEAF ENERGY, INC. CONTACT: RYAN QUINN PHONE: (949) 668-1140</p>
---	---

**GENERAL ABBREVIATIONS**

(E) EXISTING	NS NORTH-SOUTH
AHJ AUTHORITY HAVING JURISDICTION	NTS NOT TO SCALE
AL ALUMINUM	OAE OR APPROVED EQUAL
APPROX APPROXIMATE	OC ON CENTER
ARY ARRAY	OD OUTSIDE DIAMETER
BLDG BUILDING	OF/CI OWNER FURNISHED CONTRACTOR INSTALLED
NLE NEW LEAF ENERGY	PV PHOTOVOLTAIC
CL CENTERLINE	PVC POLY VINYL CHLORIDE
DAS DATA ACQUISITION SYSTEM	SCH SCHEDULE
DIA DIAMETER	SS STAINLESS STEEL
DO DITTO	SSS SOLAR SUPPORT STRUCTURE
EW EAST-WEST	STC STANDARD TEST CONDITIONS
FBO FURNISHED BY OTHERS	TBD TO BE DETERMINED
FF FORWARD FACING	TP TAMPER PROOF
GALV GALVANIZED	TYP TYPICAL
HDC HOT DIP GALVANIZED	UON UNLESS OTHERWISE NOTED
HVAC HEATING VENTILATION AND AIR CONDITIONING	VIF VERIFY IN FIELD
ID INSIDE DIAMETER	WP WEATHER PROOF
MFR MANUFACTURER	
MOD SOLAR MODULE	

REV 1.0

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 538-4273  
FAX: (518) 843-6778  
WWW.NEWEAFENERGY.COM



145 Currier Road, Suite 200  
Rochester, NY 14623  
Telephone: 585-427-8888  
www.erdmananthony.com

NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

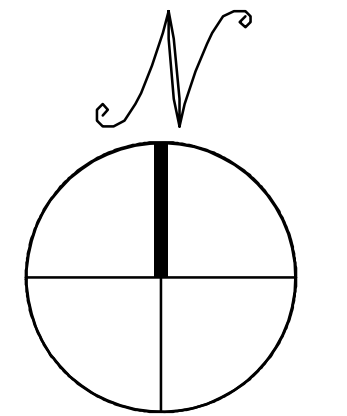
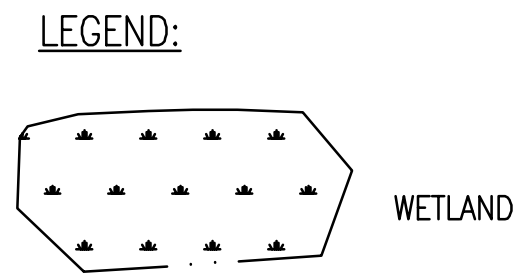
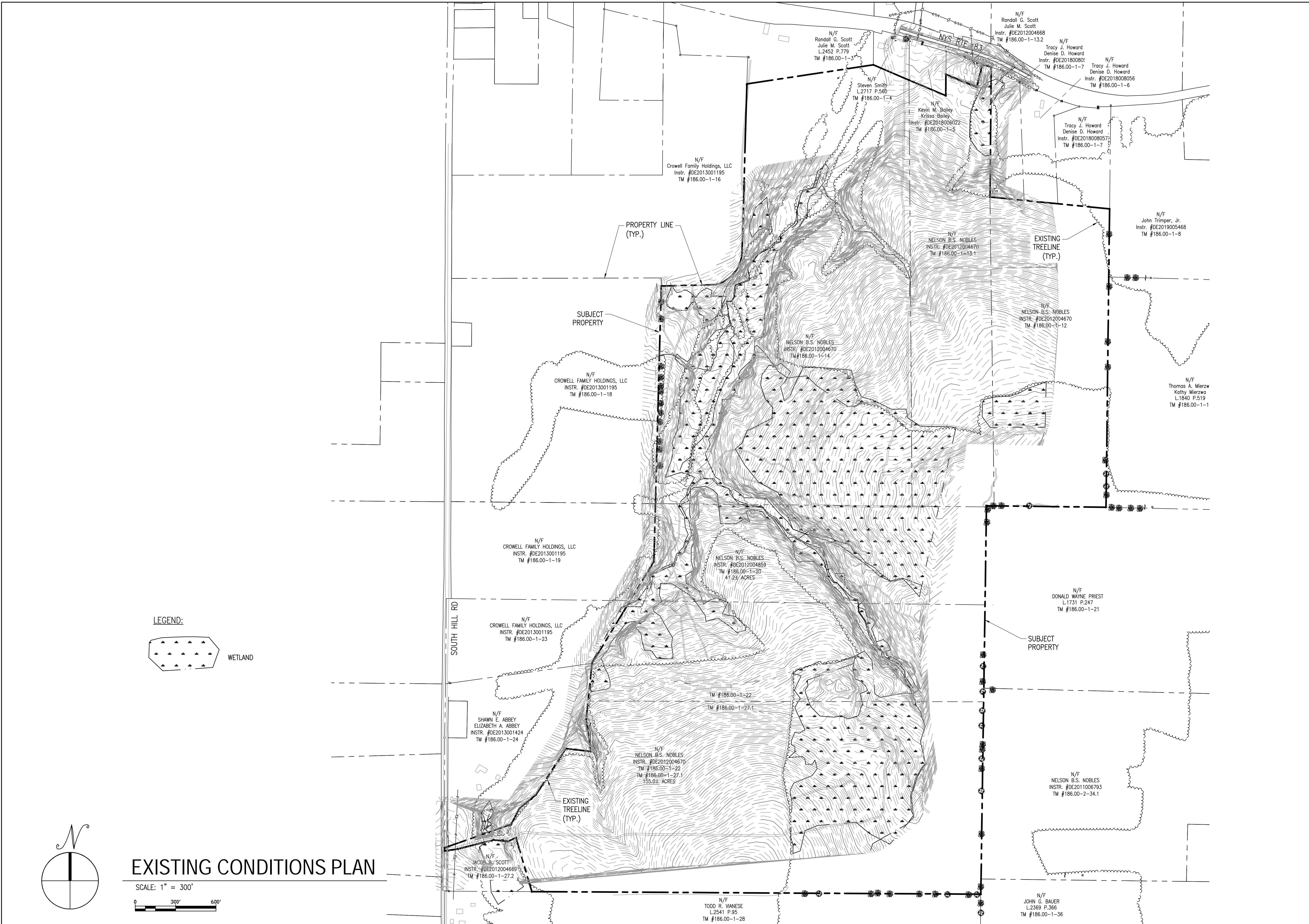
SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RO/DHK	MDK	PRELIMINARY SUP SET
2	8/30/23	SEF/DHK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-1.0  
EXISTING CONDITIONS PLAN



# EXISTING CONDITIONS PLAN

SCALE: 1" = 300'

SOUTH HILL RD

PROPERTY LINE (TYP.)

SUBJECT PROPERTY

EXISTING TREELINE (TYP.)

SUBJECT PROPERTY

EXISTING TREELINE (TYP.)

N/F  
TODD R. WANSE  
L.2541 P.95  
TM #186.00-1-28

N/F  
JOHN G. BAUER  
L.2369 P.366  
TM #186.00-1-36

N/F  
JACOB B. SCOTT  
INSTR. #DE2012004669  
TM #186.00-1-27.2

N/F  
SHAWN E. ABBEY  
ELIZABETH A. ABBEY  
INSTR. #DE2013001424  
TM #186.00-1-24

N/F  
NELSON B.S. NOBLES  
INSTR. #DE2012004670  
TM #186.00-1-22  
TM #186.00-1-27.1  
155.01 ACRES

N/F  
NELSON B.S. NOBLES  
INSTR. #DE2012004859  
TM #186.00-1-20  
47.25 ACRES

N/F  
CROWELL FAMILY HOLDINGS, LLC  
INSTR. #DE2013001195  
TM #186.00-1-19

N/F  
CROWELL FAMILY HOLDINGS, LLC  
INSTR. #DE2013001195  
TM #186.00-1-18

N/F  
NELSON B.S. NOBLES  
INSTR. #DE2012004670  
TM #186.00-1-14

N/F  
NELSON B.S. NOBLES  
INSTR. #DE2012004670  
TM #186.00-1-13.1

N/F  
NELSON B.S. NOBLES  
INSTR. #DE2012004670  
TM #186.00-1-12

N/F  
Thomas A. Mierzwo  
Kathy Mierzwo  
L.1840 P.519  
TM #186.00-1-1

N/F  
John Trimmer, Jr.  
Instr. #DE2019005468  
TM #186.00-1-8

N/F  
Tracy J. Howard  
Denise D. Howard  
Instr. #DE2018008057  
TM #186.00-1-7

N/F  
Tracy J. Howard  
Denise D. Howard  
Instr. #DE2018008056  
TM #186.00-1-6

N/F  
Randall G. Scott  
Julie M. Scott  
Instr. #DE2012004668  
TM #186.00-1-13.2

N/F  
Tracy J. Howard  
Denise D. Howard  
Instr. #DE2018008080  
TM #186.00-1-7

N/F  
Randall G. Scott  
Julie M. Scott  
L.2452 P.779  
TM #186.00-1-3

N/F  
Kevin M. Bailey  
Krisssa Bailey  
Instr. #DE2018008022  
TM #186.00-1-5

N/F  
Steven Smith  
L.2717 P.560  
TM #186.00-1-4

N/F  
Crowell Family Holdings, LLC  
Instr. #DE2013001195  
TM #186.00-1-16

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 538-4273  
FAX: (518) 843-6778  
WWW.NEWLEAFENERGY.COM

**ERDMAN ANTHONY**  
145 CULVER ROAD, SUITE 200  
ROCHESTER, NY 14623  
PH: 585.427.0888  
WWW.ERDMANANTHONY.COM



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

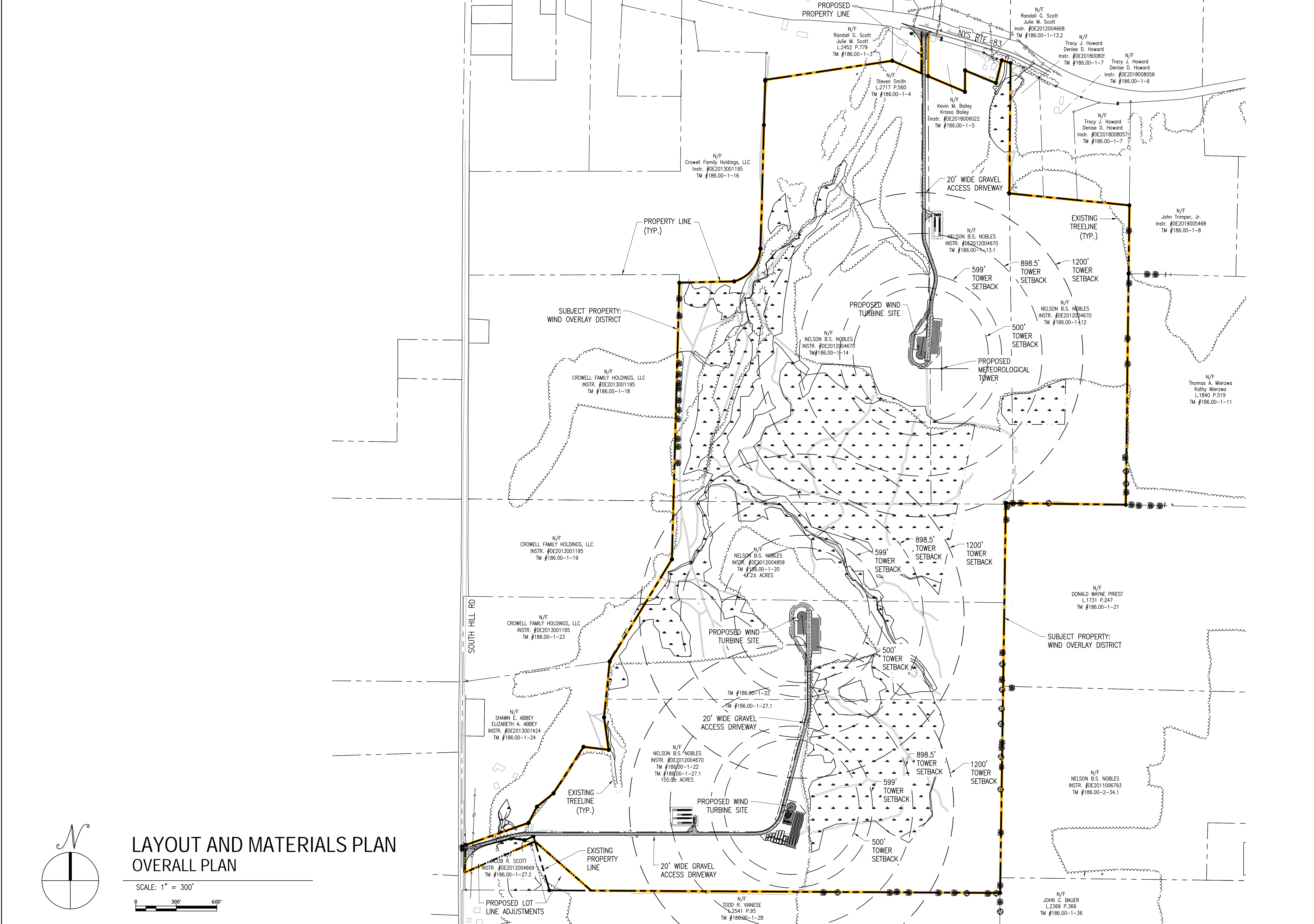
**SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723**

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

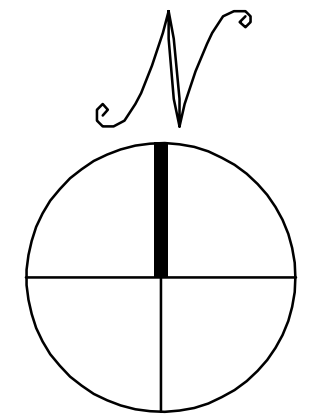
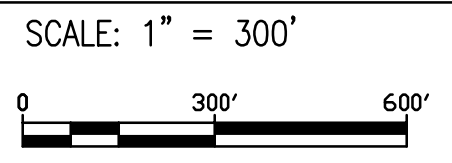
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RF/DJK	MDK	PRELIMINARY SUP SET
8	30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-3.0**  
LAYOUT AND MATERIALS PLAN



# LAYOUT AND MATERIALS PLAN OVERALL PLAN



PROPOSED LOT LINE ADJUSTMENTS

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 538-4273  
FAX: (518) 843-6178  
WWW.NEWLEAFENERGY.COM



145 CULVER ROAD, SUITE 200  
ROCHESTER, NY 14623  
PH: 716.243.2222  
WWW.ERDMANANTHONY.COM

NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

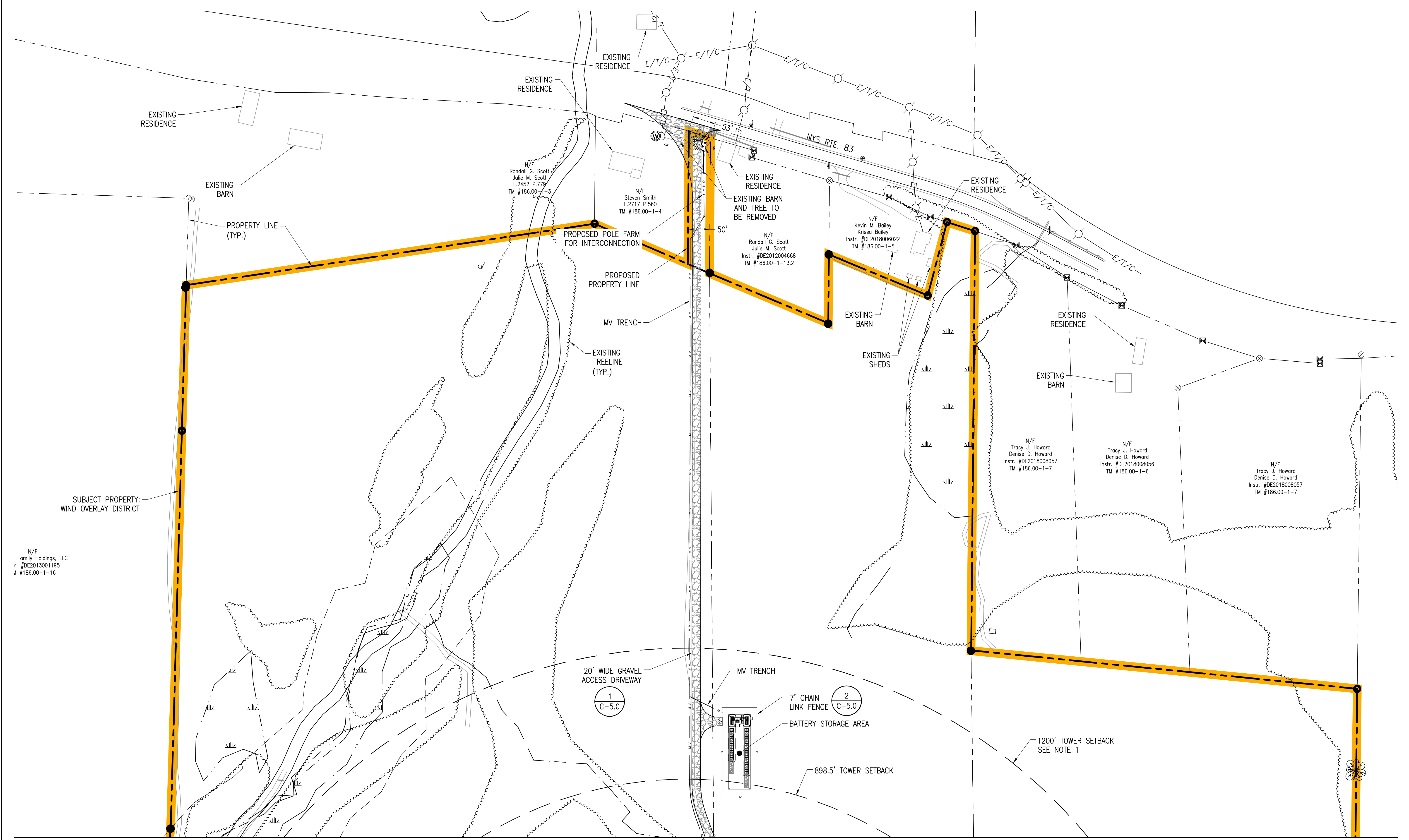
SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RF/DJK	MDK	PRELIMINARY SUP SET
2	8/30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

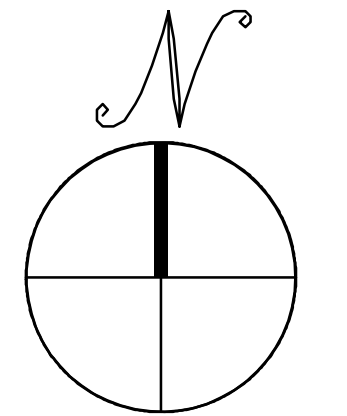
C-3.1  
LAYOUT AND MATERIALS PLAN



MATCH TO SHEET C-3.2

NOTES:

1. THERE ARE NO RESIDENTIAL STRUCTURES WITHIN A 1,200 FOOT RADIUS OF THE PROPOSED WECS.



# LAYOUT AND MATERIALS PLAN

SCALE: 1"=100'  
0 100' 200'

MATCH TO SHEET C-3.1

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



30 CENTURY HILL DRIVE, SUITE 501  
LATHAM, NY 12110  
PHONE: (518) 538-4273  
FAX: (518) 843-6178  
WWW.NEWLEAFENERGY.COM



145 CULVER ROAD, SUITE 200  
ROCHESTER, NY 14623  
PHONE: 585-427-8888  
WWW.ERDMANANTHONY.COM

NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

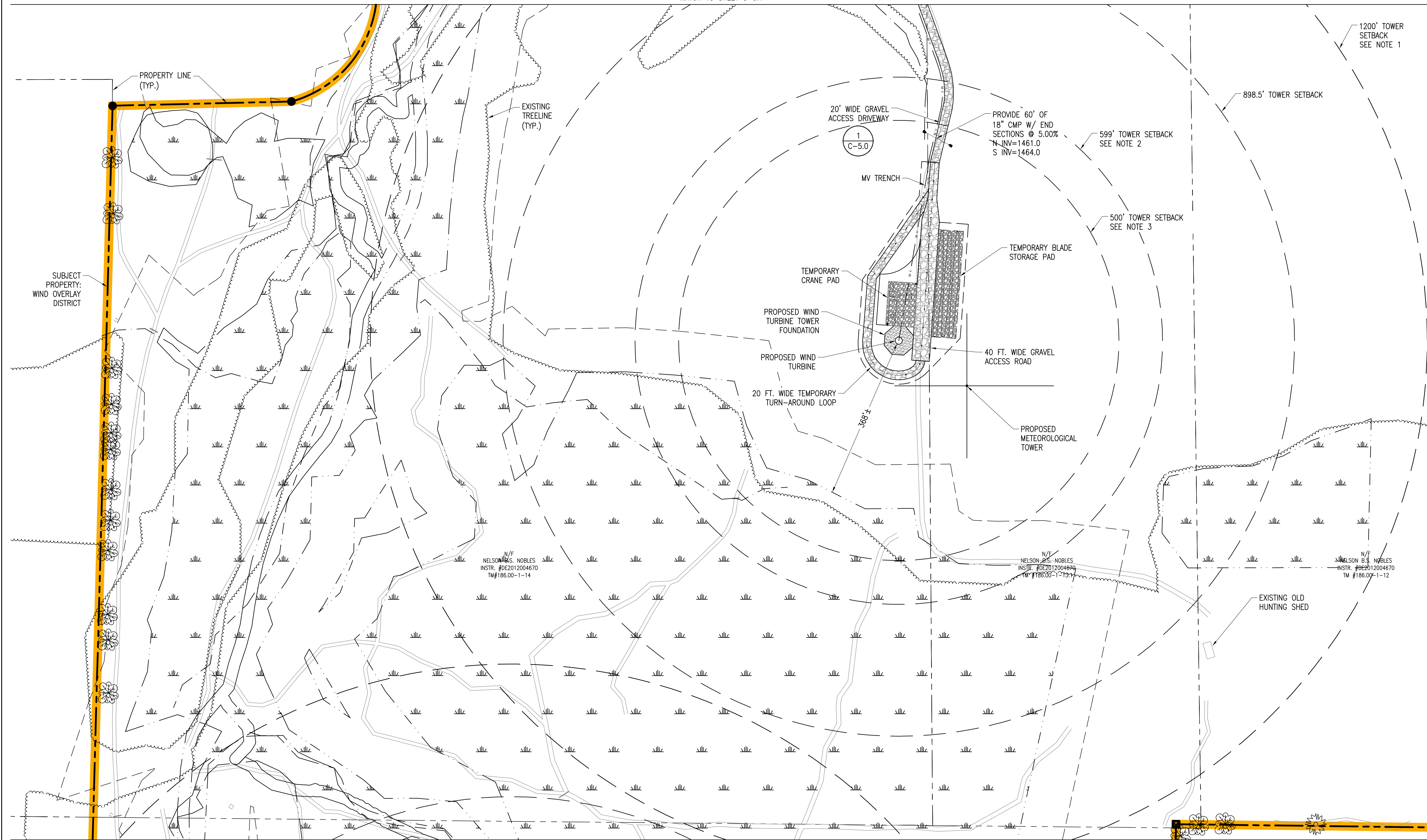
SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RO/DAK	MDK	PRELIMINARY SUP SET
2	8/30/23	SEF/DAK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

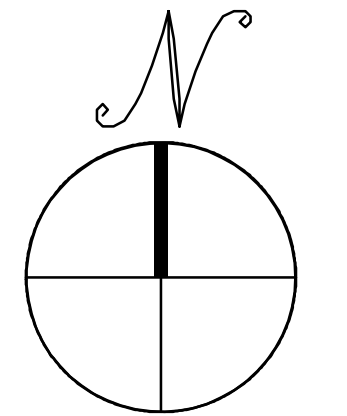
C-3.2  
LAYOUT AND MATERIALS PLAN



MATCH TO SHEET C-3.3

NOTES:

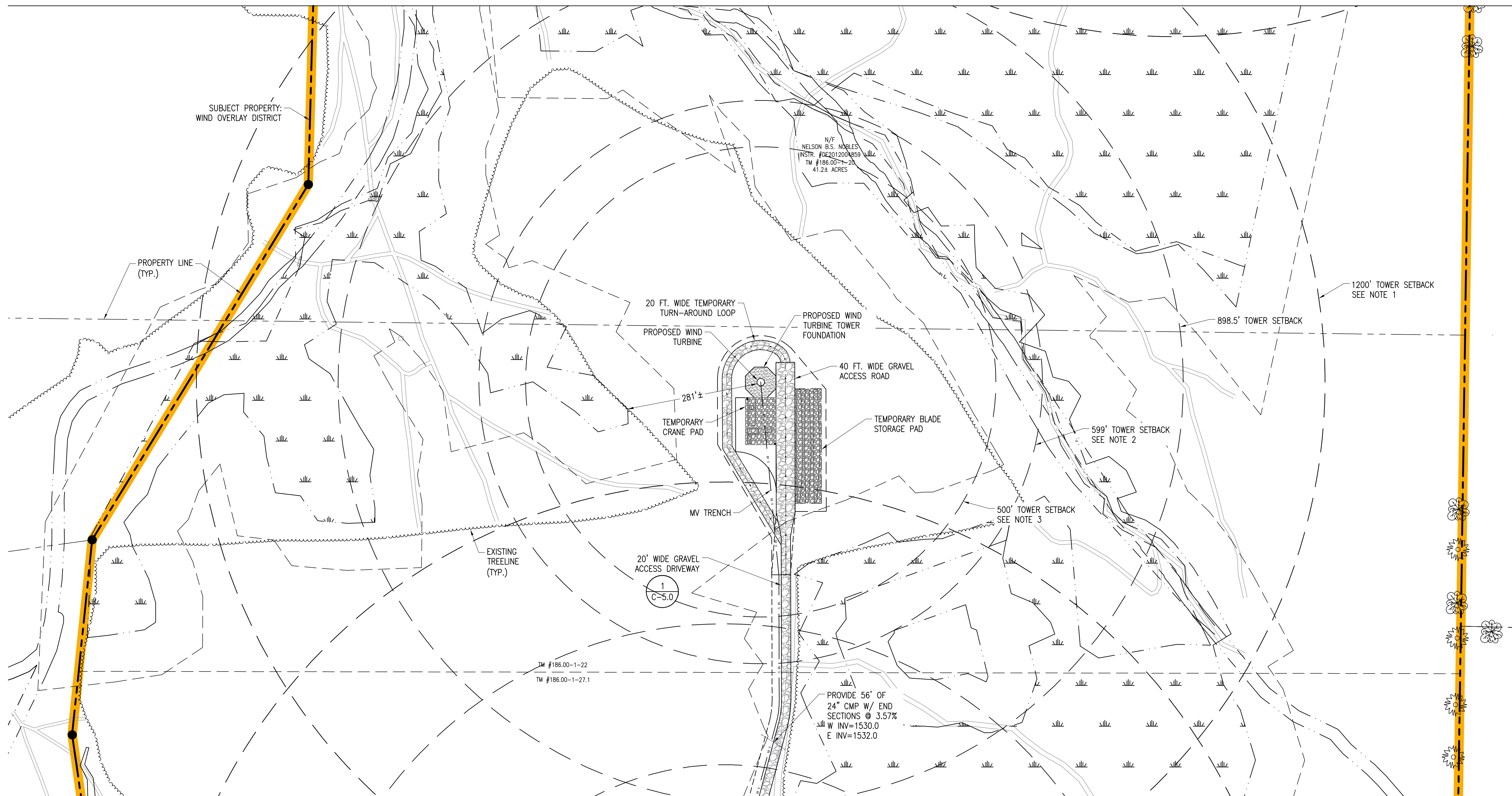
1. THERE ARE NO RESIDENTIAL STRUCTURES WITHIN A 1,200 FOOT RADIUS OF THE PROPOSED WECS.
2. THERE ARE NO ABOVE GROUND UTILITY/POWER LINES, TRANSFORMERS, INTERCONNECTION POINTS, OR OTHER ANCILLARY FACILITIES OR STRUCTURES WITHIN A 599 FOOT RADIUS (TOTAL HEIGHT) OF THE PROPOSED WECS.
3. THERE ARE NO STRUCTURES ABOVE 35 FEET WITHIN A 500 FOOT RADIUS OF THE PROPOSED WECS.



# LAYOUT AND MATERIALS PLAN

SCALE: 1"=100'  
0 100' 200'

MATCH TO SHEET C-3.2



MATCH TO SHEET C-3.4

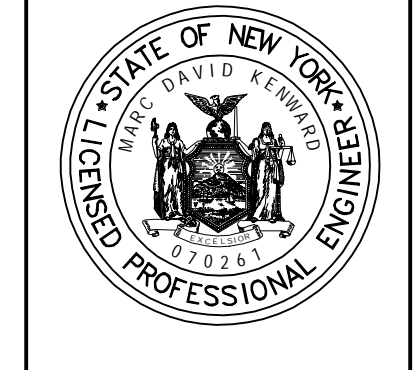
NOTES:

1. THERE ARE NO RESIDENTIAL STRUCTURES WITHIN A 1,200 FOOT RADIUS OF THE PROPOSED WECS.
2. THERE ARE NO ABOVE GROUND UTILITY/POWER LINES, TRANSFORMERS, INTERCONNECTION POINTS, OR OTHER ANCILLARY FACILITIES OR STRUCTURES WITHIN A 599 FOOT RADIUS (TOTAL HEIGHT) OF THE PROPOSED WECS.
3. THERE ARE NO STRUCTURES ABOVE 35 FEET WITHIN A 500 FOOT RADIUS OF THE PROPOSED WECS.

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

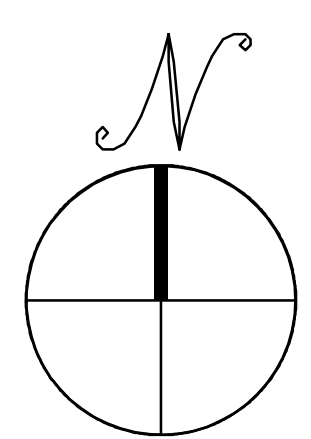
SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RF/DJK	MDK	PRELIMINARY SUP SET
	8/30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

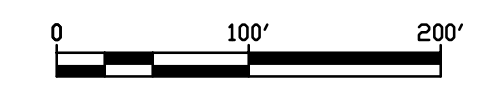
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.3  
LAYOUT AND MATERIALS PLAN



# LAYOUT AND MATERIALS PLAN

SCALE: 1"=100'



NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

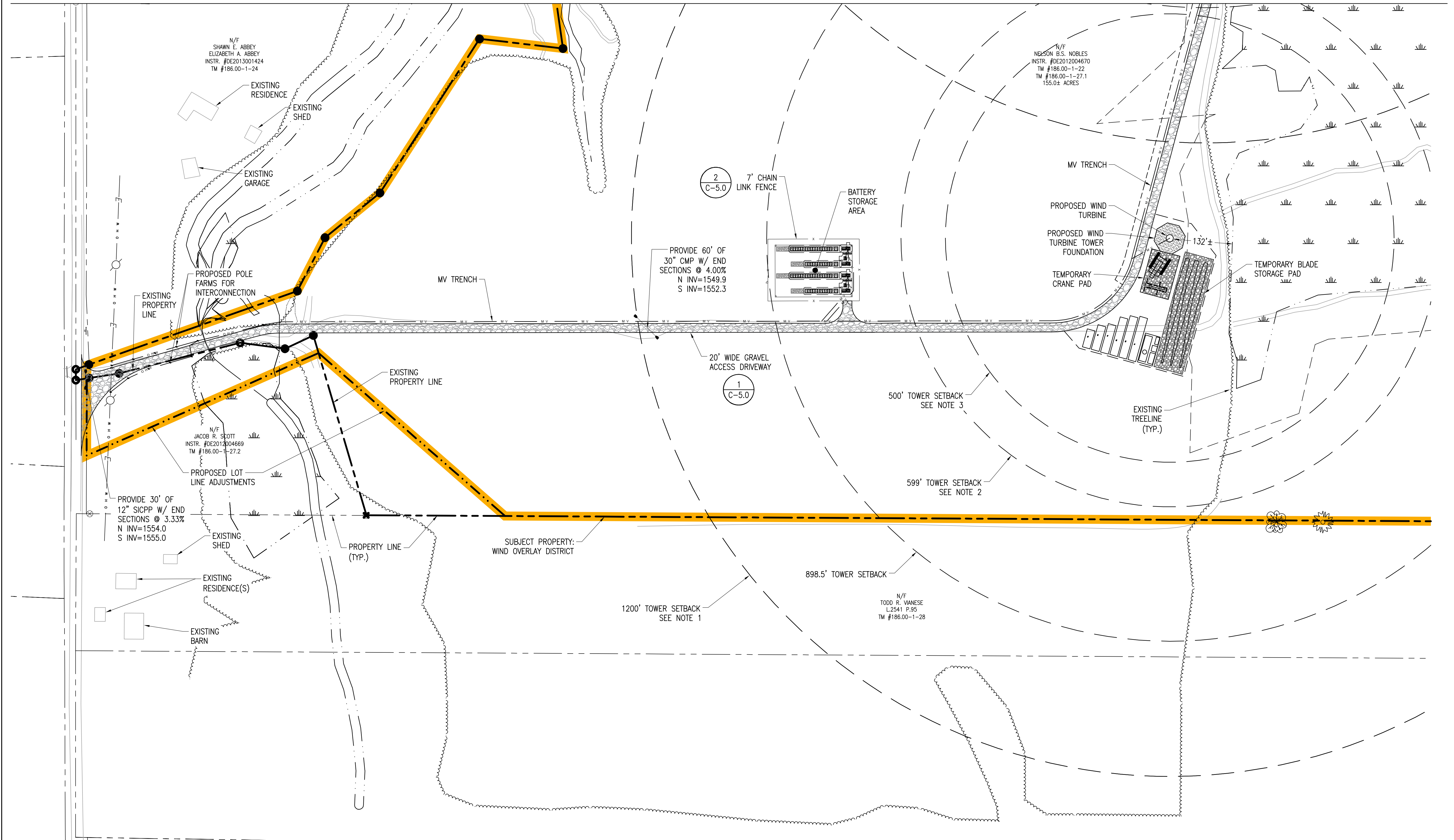
SOUTH HILL ROAD  
 SOUTH HILL ROAD  
 CHERRY CREEK, NY 14723

PROJECT NUMBER:  
 120-1118, 120-1119,  
 120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	SEF/DJK	MDK	PRELIMINARY SUP SET
2	8/30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

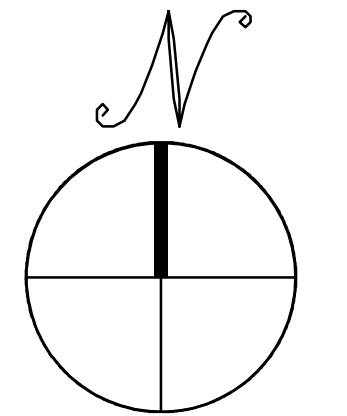
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

MATCH TO SHEET C-3.3



NOTES:

1. THERE ARE NO RESIDENTIAL STRUCTURES WITHIN A 1,200 FOOT RADIUS OF THE PROPOSED WECS.
2. THERE ARE NO ABOVE GROUND UTILITY/POWER LINES, TRANSFORMERS, INTERCONNECTION POINTS, OR OTHER ANCILLARY FACILITIES OR STRUCTURES WITHIN A 599 FOOT RADIUS (TOTAL HEIGHT) OF THE PROPOSED WECS.
3. THERE ARE NO STRUCTURES ABOVE 35 FEET WITHIN A 500 FOOT RADIUS OF THE PROPOSED WECS.



**LAYOUT AND MATERIALS PLAN**

SCALE: 1"=100'



NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

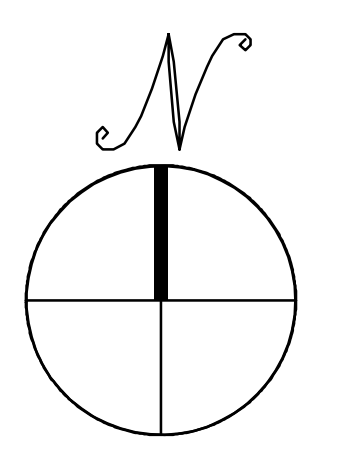
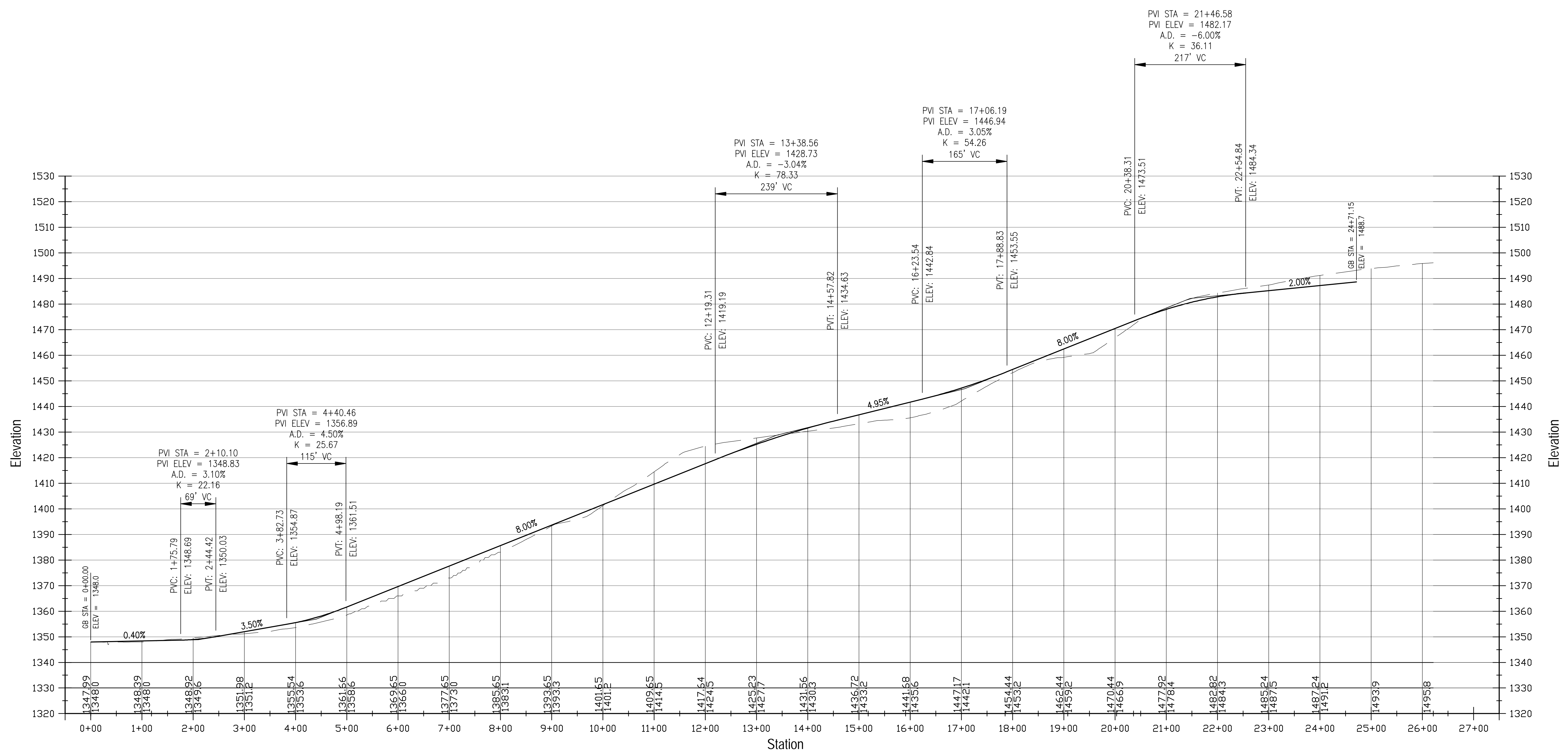
SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
8/30/23	SEF/DJK	MDK		PRELIMINARY SUP SET
1	10/24/23	RQ/DJK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.5  
DRIVEWAY PROFILES



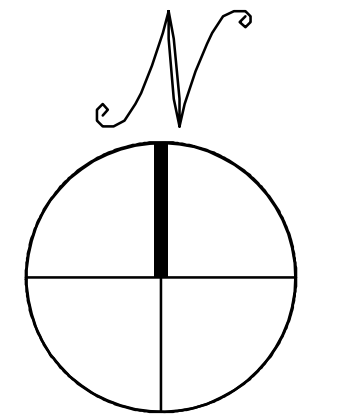
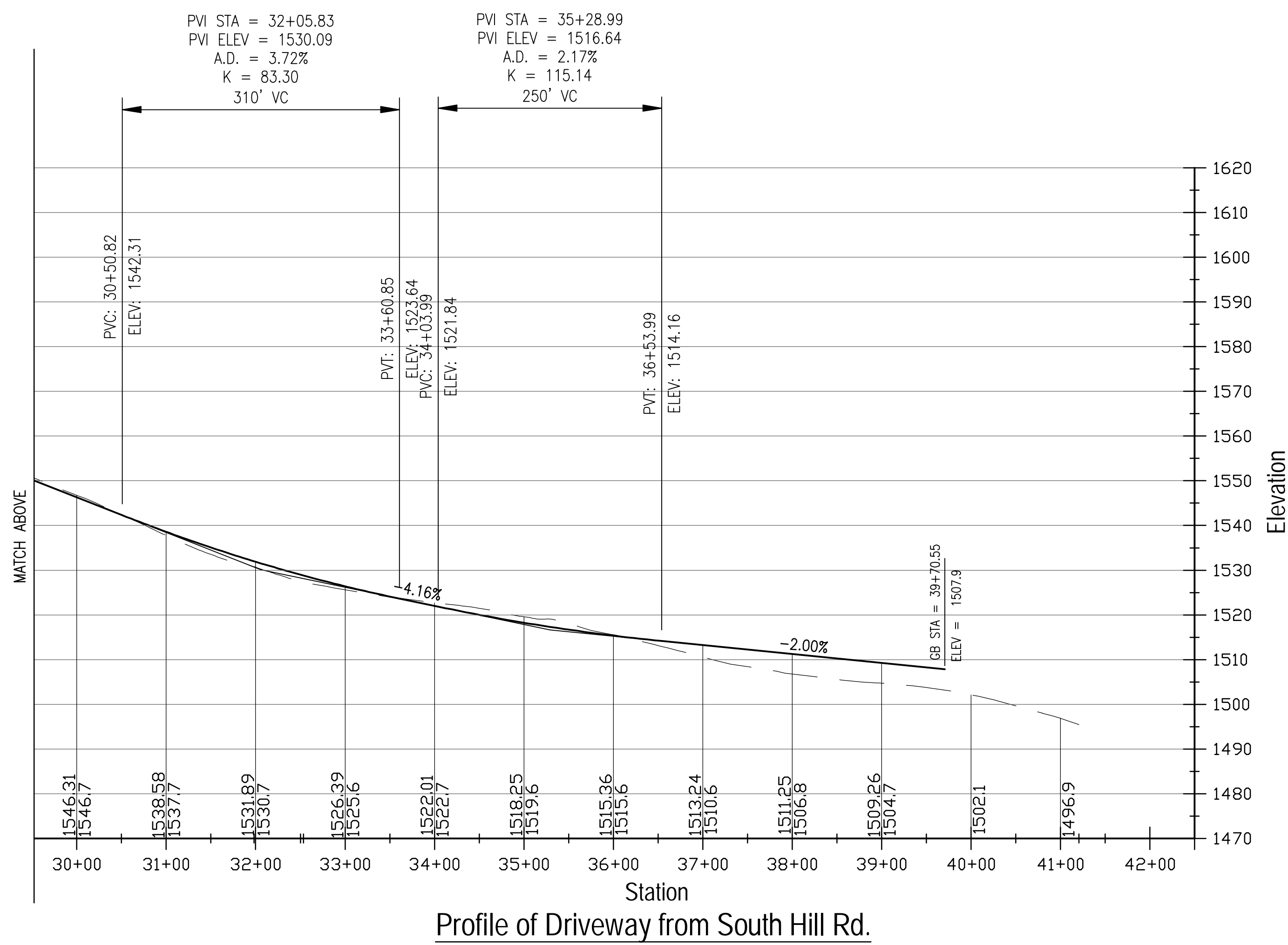
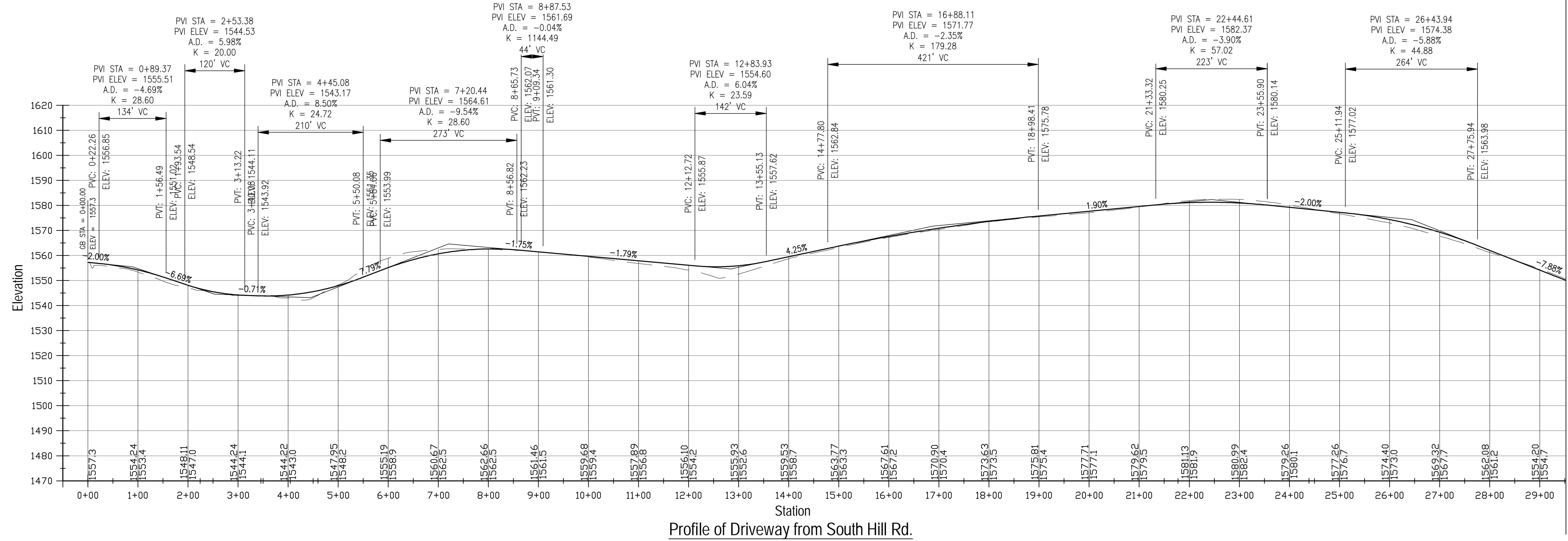
DRIVEWAY PROFILES

SCALE: 1"=100' HORIZ, 1"=20' VERT.



REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
8	30/23	SEF/DJK	MDK	PRELIMINARY SUP SET
1	10/24/23	RO/DJK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"



**DRIVEWAY PROFILES**  
 SCALE: 1"=100' HORIZ, 1"=20' VERT.

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 538-4273  
FAX: (518) 843-6178  
WWW.NEWEAFENERGY.COM



145 CULVER ROAD, SUITE 200  
ROCHESTER, NY 14623  
PHONENUMBER 585 427 0888  
WWW.ERDMANANTHONY.COM

NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

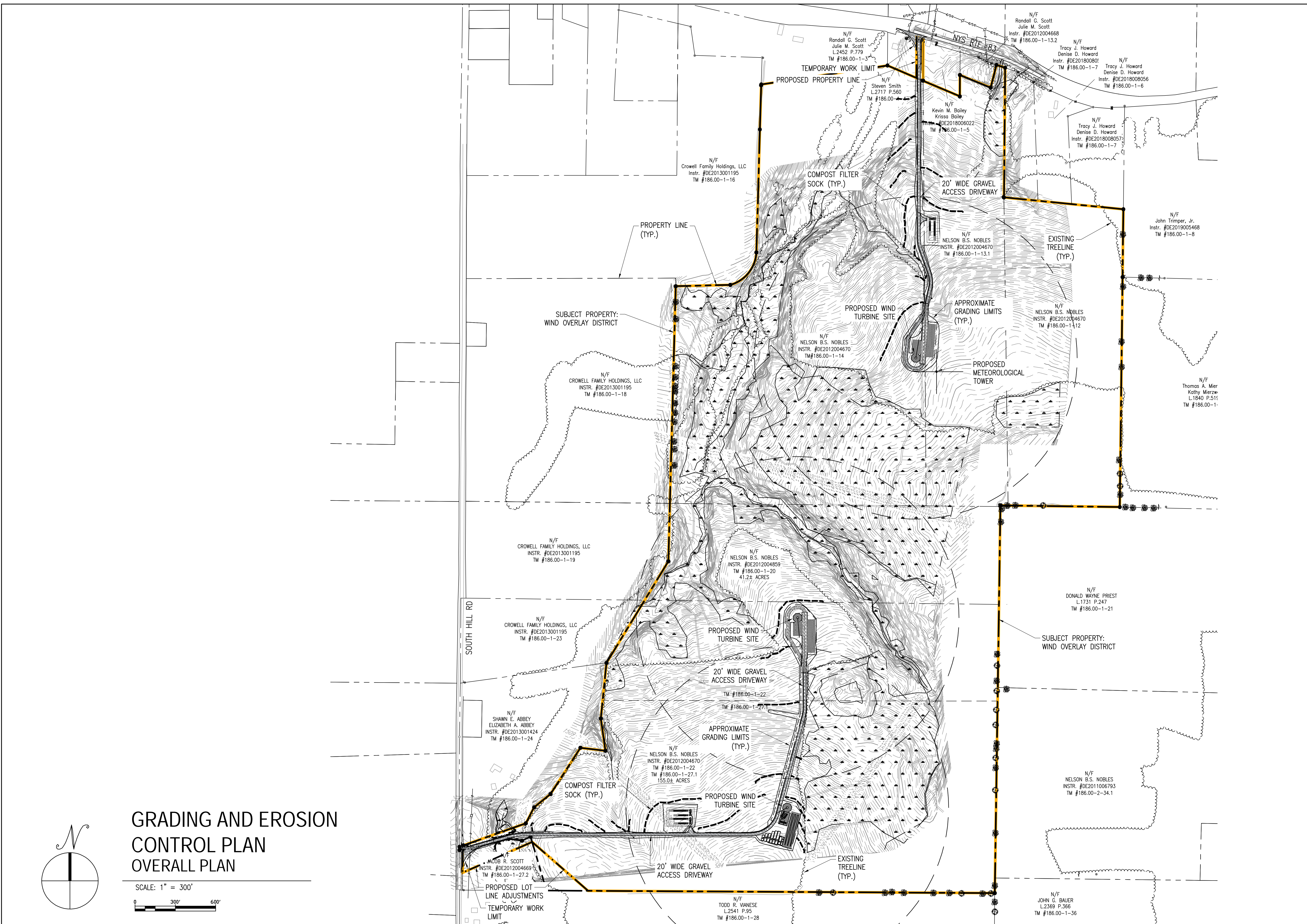
SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

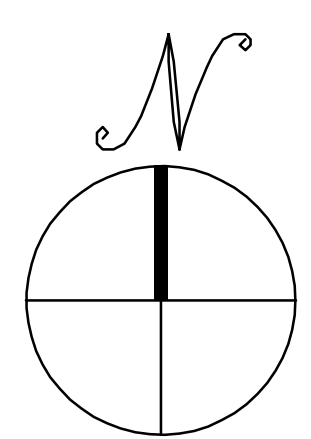
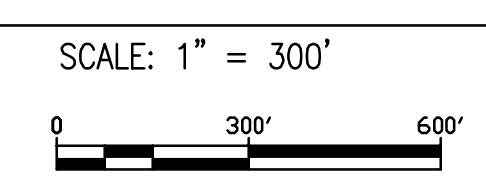
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RO/DJK	MDK	PRELIMINARY SUP SET
	8/30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

SCALE: 1" = 300'

C-4.0  
GRADING AND EROSION CONTROL PLAN



# GRADING AND EROSION CONTROL PLAN OVERALL PLAN

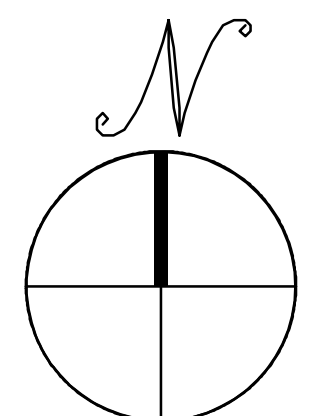


**EROSION AND SEDIMENT CONTROL NOTES:**

1. A SPDES PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBANCE. THE SPDES PERMIT # IS (TBD), AND WAS ISSUED ON (DD/MM/20YY).
2. EROSION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGED CONSTRUCTION PROVIDED IN THE SWPPP. A COPY OF THE APPROVED SWPPP SHALL BE MAINTAINED ON THE SITE.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
4. SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE CEOR BEFORE CONSTRUCTION CAN START.
5. STRAW AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
6. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED.
7. SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.
8. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION AND AS REQUESTED BY THE CEOR.
9. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE OR IN ACCORDANCE WITH SYSTEMS STANDARD SPECIFICATION.
10. THE "TRAINED CONTRACTOR" IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES.
11. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
12. PIPE OUTLETS (IF ANY) SHALL BE STABILIZED WITH STONE. REFER TO DETAILS.
13. TEMPORARY SEEDING (perennial RYE GRASS) SHALL BE AT A RATE OF 45 LBS PER ACRE. DISTURBED AREAS OUTSIDE AND DOWN SLOPE FROM THE CONSTRUCTION LIMITS SHALL BE SIMILARLY SEEDED.
14. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED. A DEWATERING PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CONTRACTOR TO THE CEOR AND ADDED TO THE SWPPP.
15. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION/SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE CEOR AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. A STABILIZED CONSTRUCTION EXIT SHALL BE PROVIDED. A VEHICLE WASH DOWN FACILITIES SHALL BE PROVIDED IF THE STABILIZED CONSTRUCTION ENTRANCE IS INEFFECTIVE IN PREVENTING SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED IMMEDIATELY.
17. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
18. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
19. EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
20. CONTRACTOR SHALL SPRAY WATER FROM A WATER TRUCK ON DRY AND WINDY DAYS TO PREVENT DUST FROM FORMING. OTHER ALLOWED FORMS OF DUST CONTROL INCLUDE: CALCIUM CHLORIDE.
21. 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.
22. AFTER ALL DISTURBED AREAS HAVE REACHED FINAL STABILIZATION, THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AT THE DIRECTION OF THE CEOR.
23. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE CONTRACTOR SHALL HAND RAKE AND SEED THE AREA OF THE TEMPORARY EROSION CONTROL MEASURE.
24. EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS ARE INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO ACCOMPLISH THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OBJECTIVES.
25. ACCESS ROADS/AISLES TO BE USED FOR DELIVERY & DISTRIBUTION OF MATERIALS THROUGH THE SITE. CONTRACTOR SHALL NOT PLACE ACCESS AISLES THROUGH WETLAND AREAS. ACCESS AISLES AND TEMPORARY STAGING, STORAGE & PARKING AREAS ARE TO BE DE-COMPACTED AND RESTORED PER SWPPP.
26. ALL EXCESS TOPSOIL IS TO REMAIN ON-SITE, STOCKPILED AND PERMANENTLY STABILIZED WITH SEEDING.

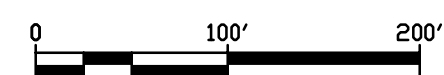


MATCH TO SHEET C-4.2



**GRADING AND EROSION CONTROL PLAN**

SCALE: 1"=100'



THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 538-4273  
FAX: (518) 843-6178  
WWW.NEWLEAFENERGY.COM



145 CULVER ROAD, SUITE 200  
ROCHESTER, NY 14620  
ROCHESTER 585-427-8888  
WWW.ERDMANANTHONY.COM

NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

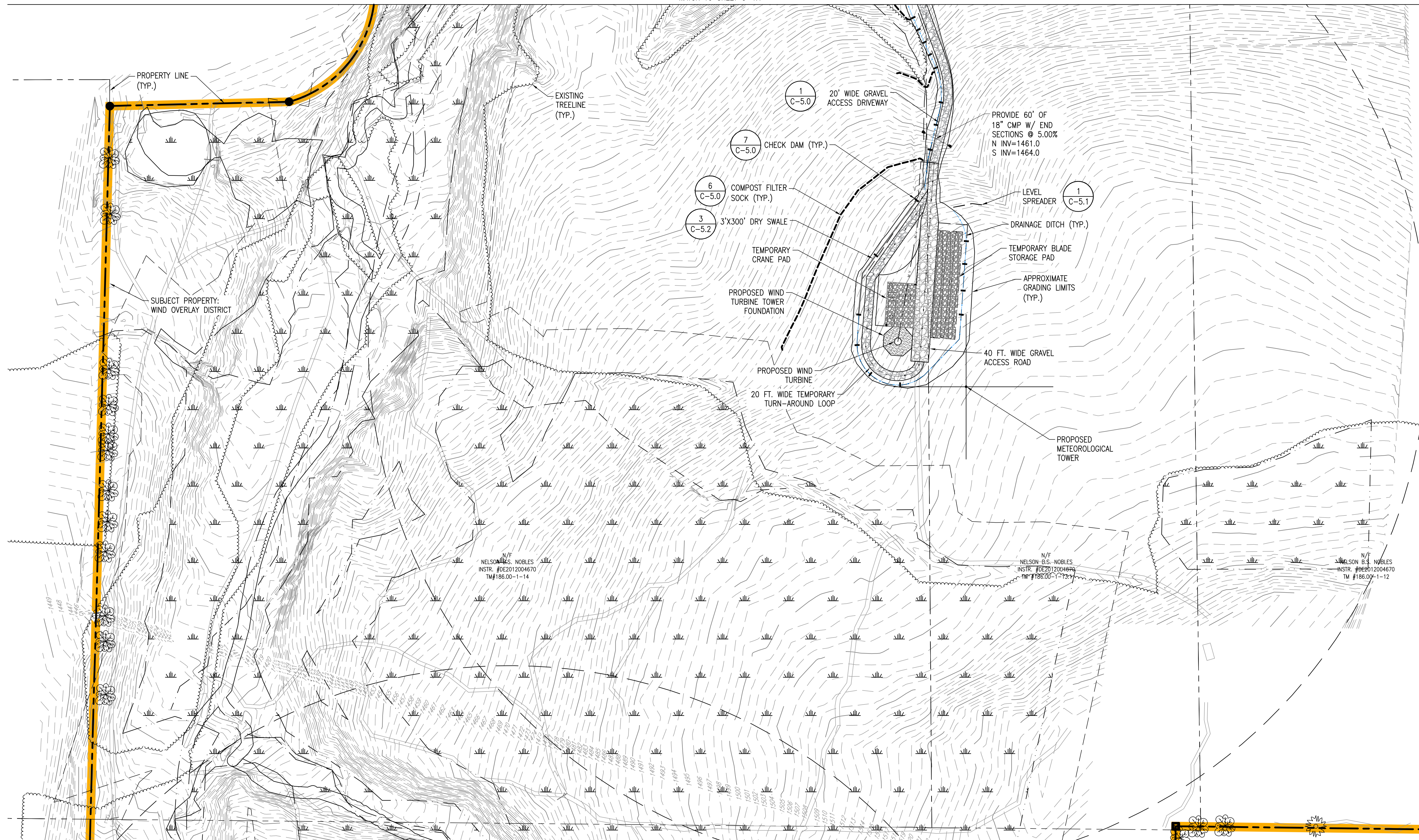
PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	SEF/DJK	MDK	PRELIMINARY SUP SET
	8/30/23	RO/DJK	MDK	PRELIMINARY SUP SET

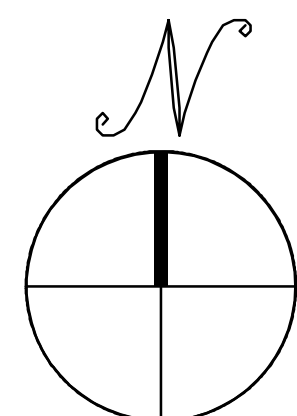
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-4.1**  
GRADING AND EROSION CONTROL PLAN

MATCH TO SHEET C-4.1

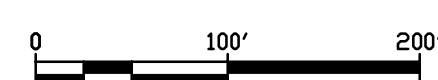


MATCH TO SHEET C-4.3



# GRADING AND EROSION CONTROL PLAN

SCALE: 1"=100'



THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.

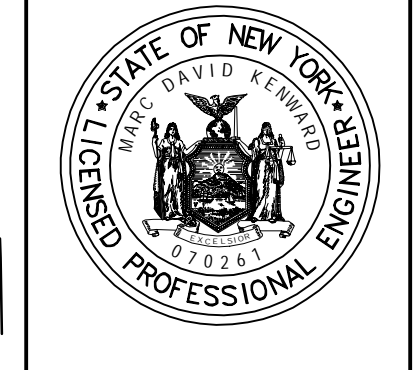


30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 838-4273  
FAX: (518) 843-6778  
WWW.NEWEAFENERGY.COM



145 CULVER ROAD, SUITE 200  
ROCHESTER, NY 14620  
PHONE: 585-427-0888  
WWW.ERDMANANTHONY.COM

NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

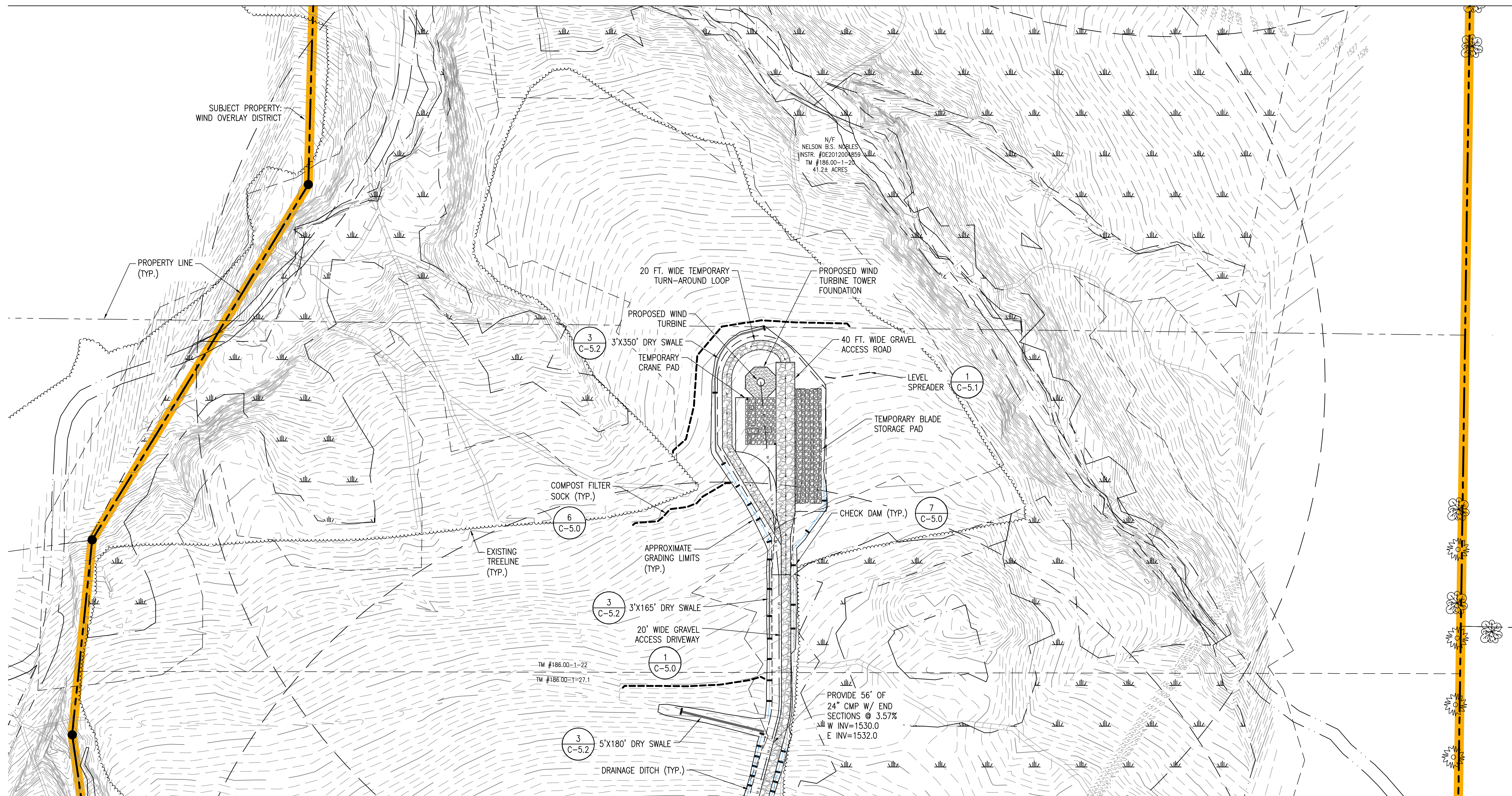
PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
8	8/30/23	SEF/DAK	MDK	PRELIMINARY SUP SET
1	10/24/23	RO/DAK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-4.2**  
GRADING AND EROSION CONTROL PLAN

MATCH TO SHEET C-4.2

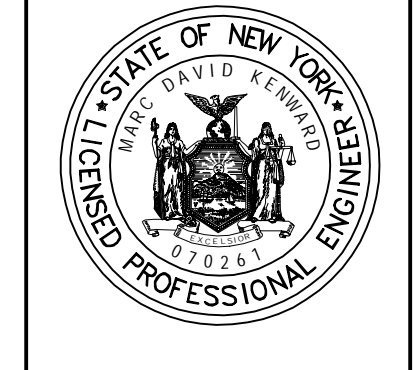


MATCH TO SHEET C-4.4

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



NOT FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

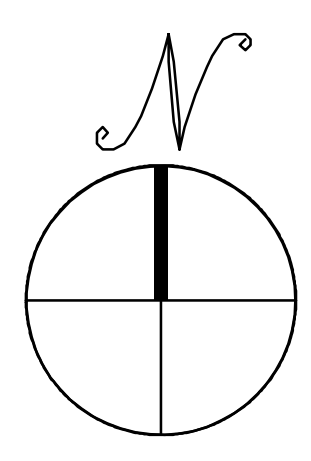
SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RF/DJK	MDK	PRELIMINARY SUP SET
	8/30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

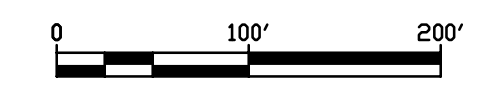
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-4.3**  
GRADING AND EROSION CONTROL PLAN



# GRADING AND EROSION CONTROL PLAN

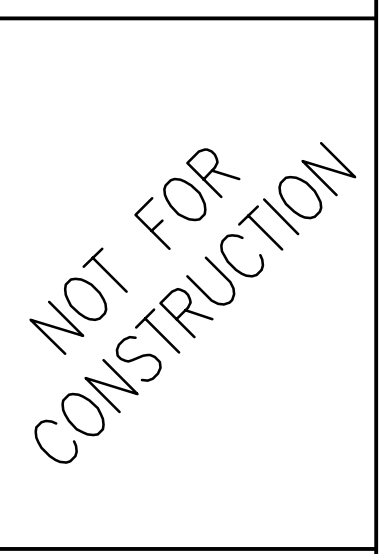
SCALE: 1"=100'



THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



30 CENTURY HILL DRIVE, SUITE 301  
LATHAM, NY 12110  
PHONE: (518) 838-4273  
FAX: (518) 843-6178  
WWW.NEWLEAFENERGY.COM



IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

**NOT FOR CONSTRUCTION**

SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

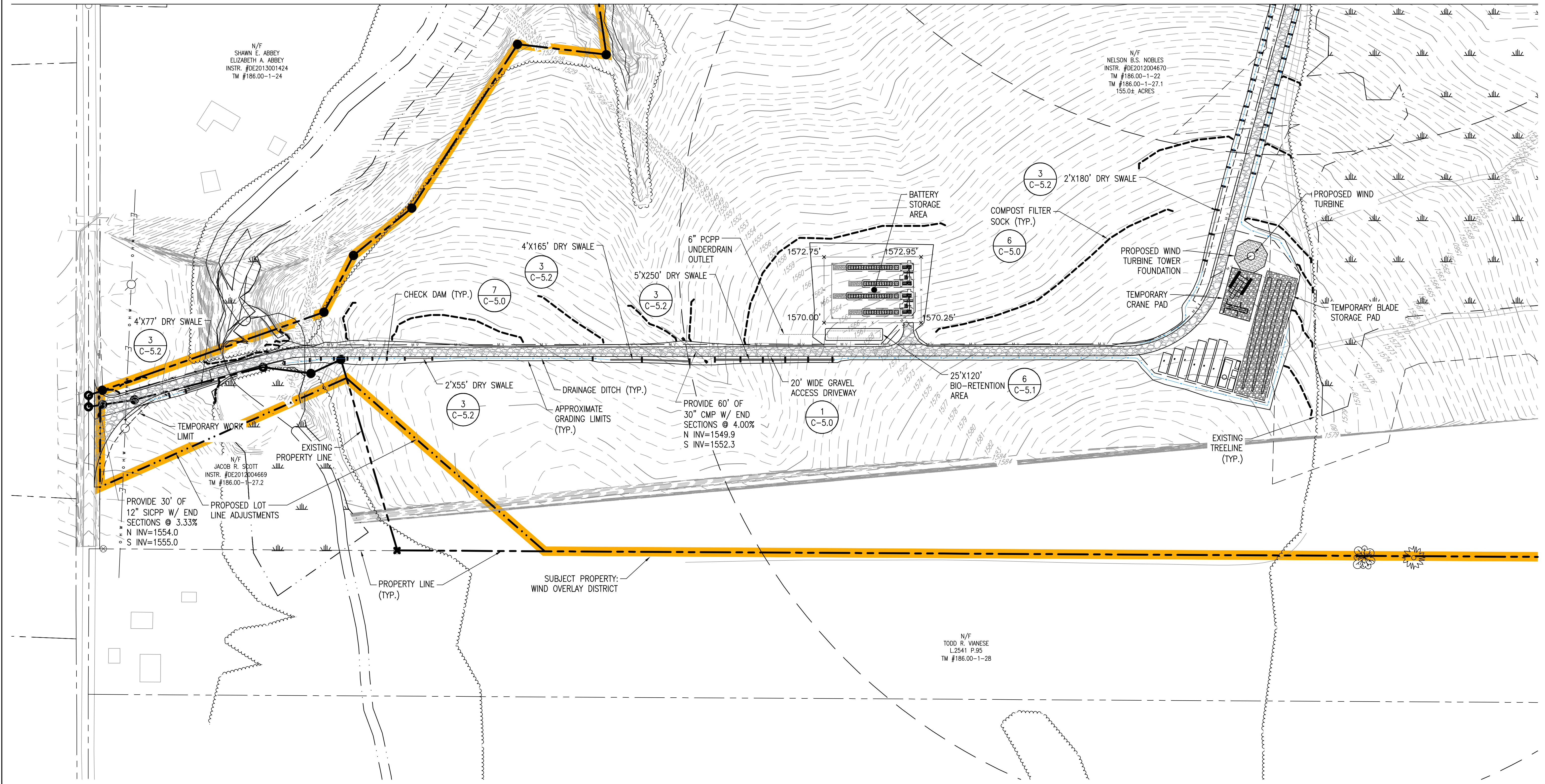
PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	SEF/DJK	MDK	PRELIMINARY SUP SET
	8/30/23	RO/DJK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-4.4**  
GRADING AND EROSION CONTROL PLAN

MATCH TO SHEET C-4.3

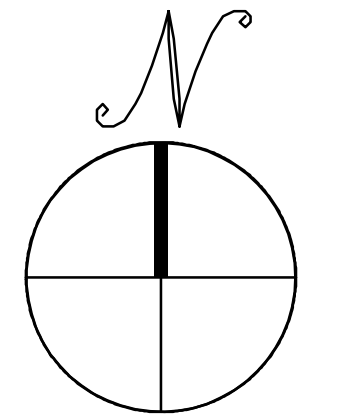


N/F  
SHAWN E. ABBEY  
ELIZABETH A. ABBEY  
INSTR. #DE2013001424  
TM #186.00-1-24

N/F  
NELSON B.S. NOBLES  
INSTR. #DE2012004670  
TM #186.00-1-22  
TM #186.00-1-27.1  
155.0± ACRES

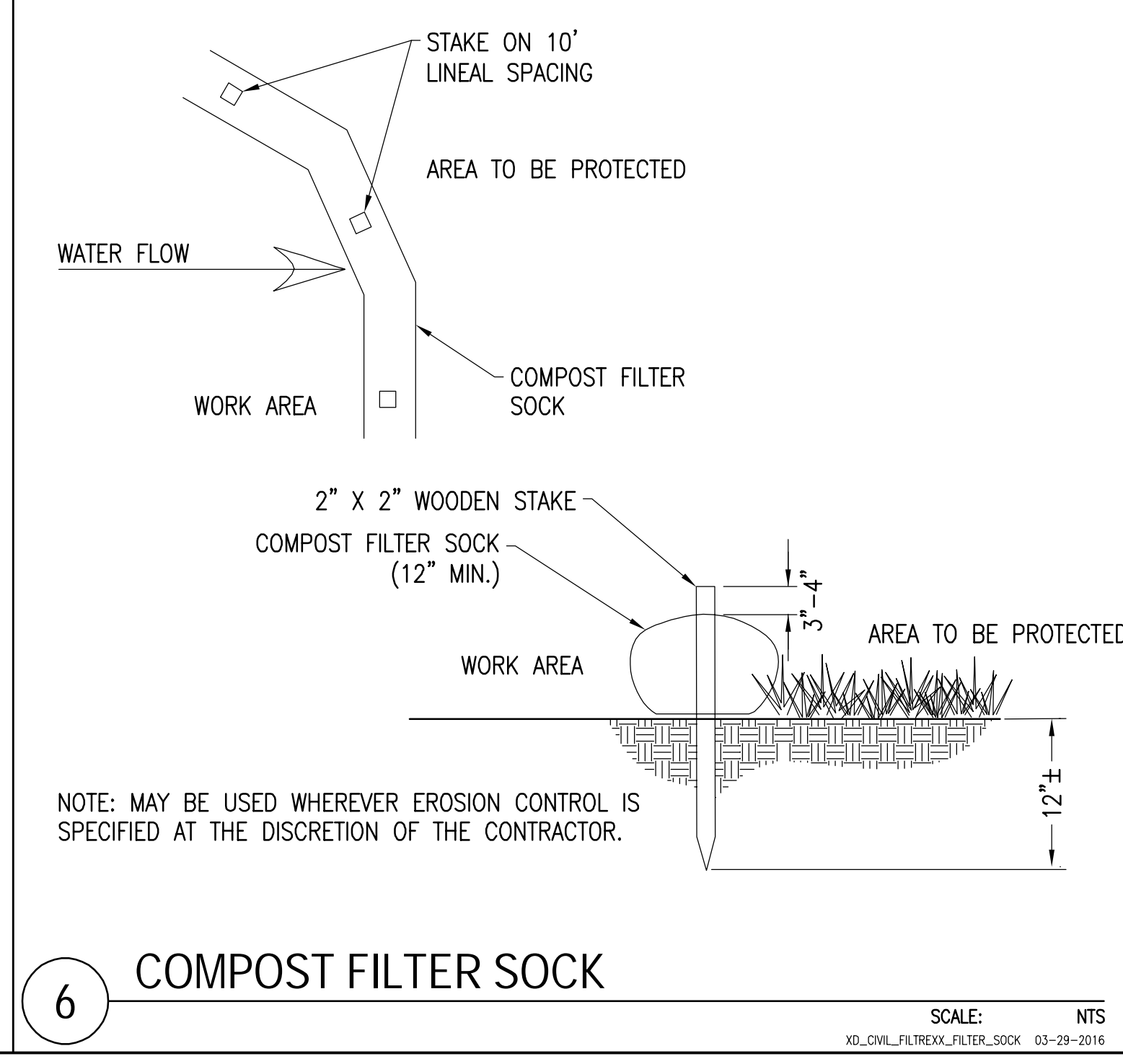
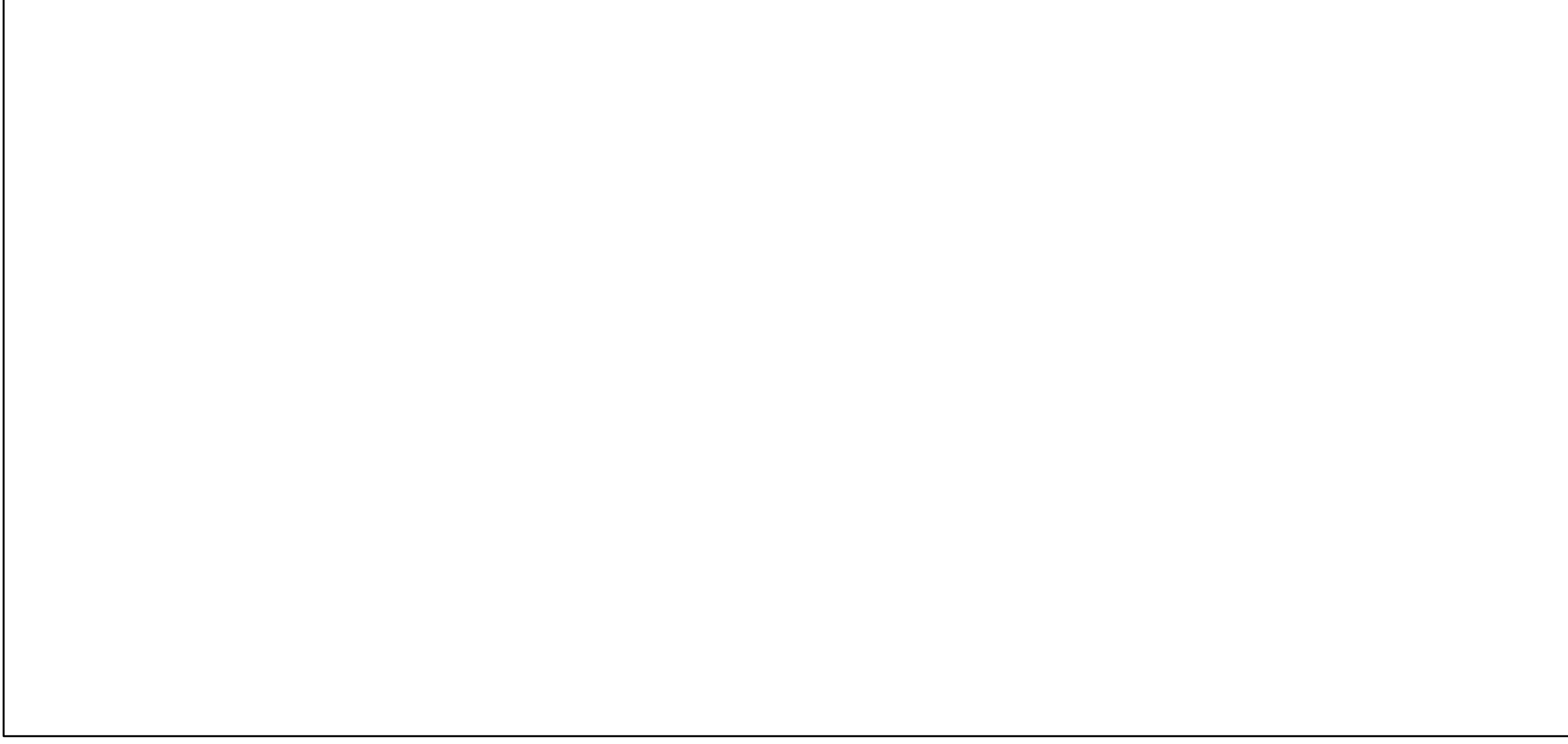
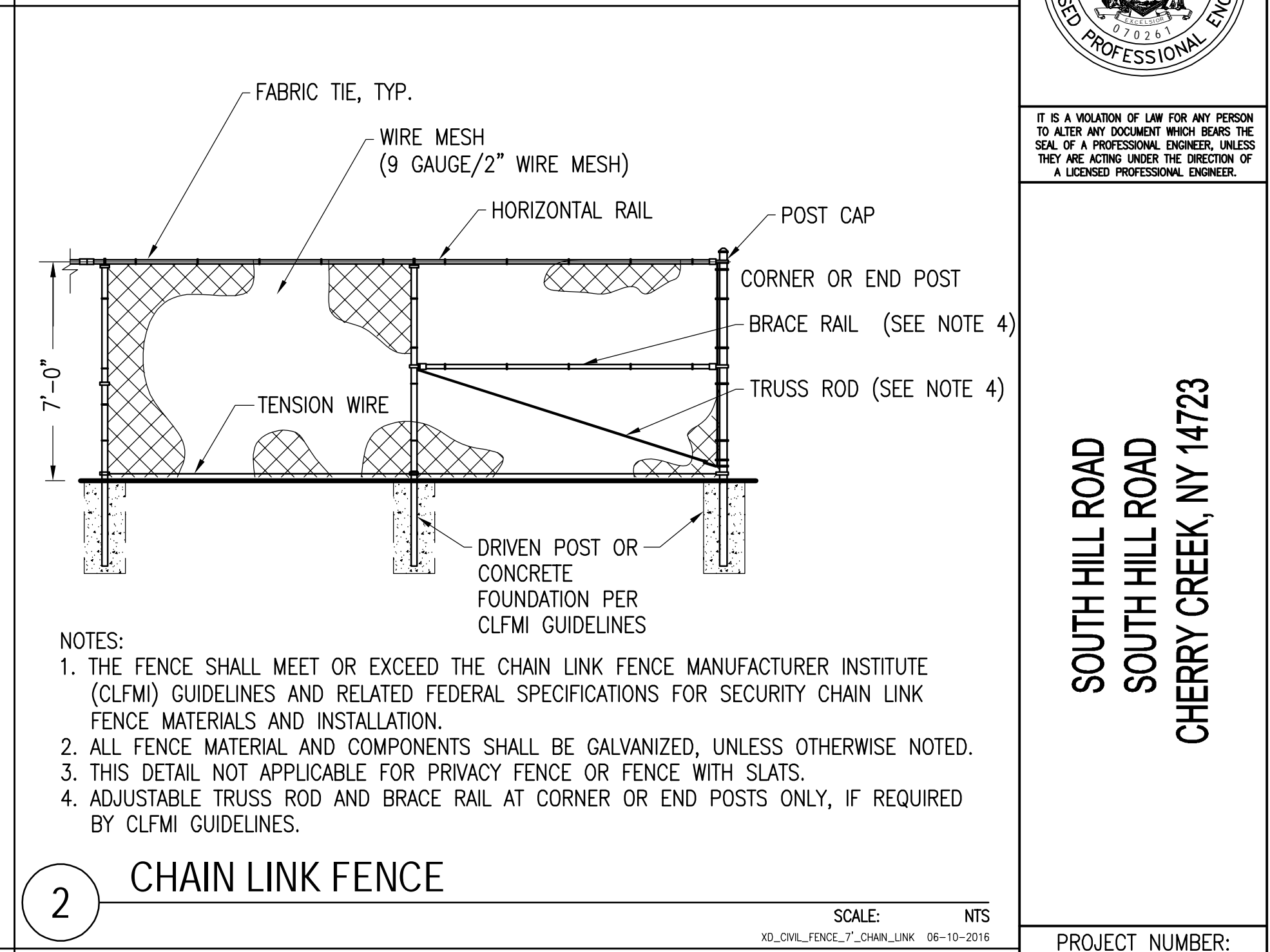
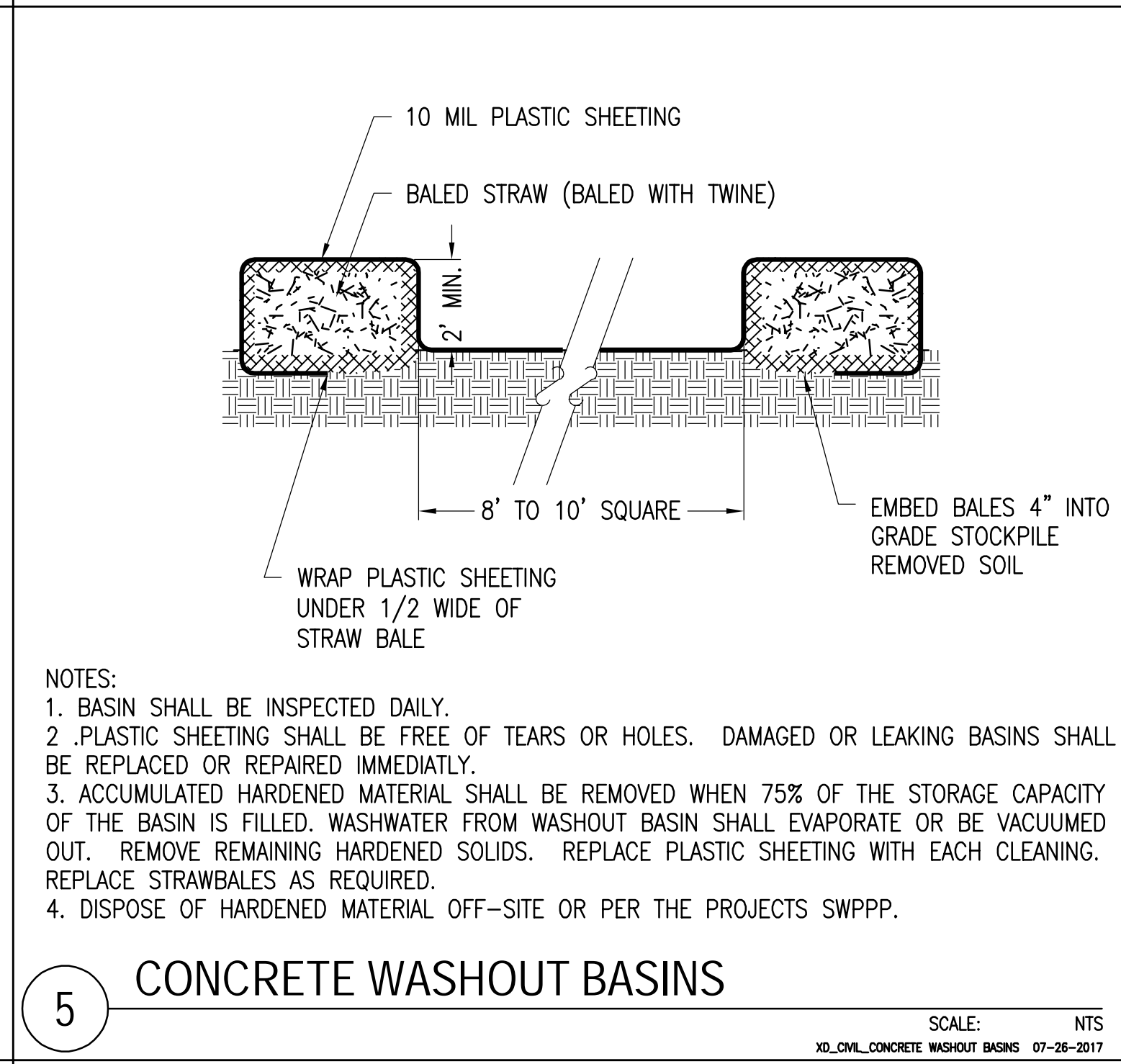
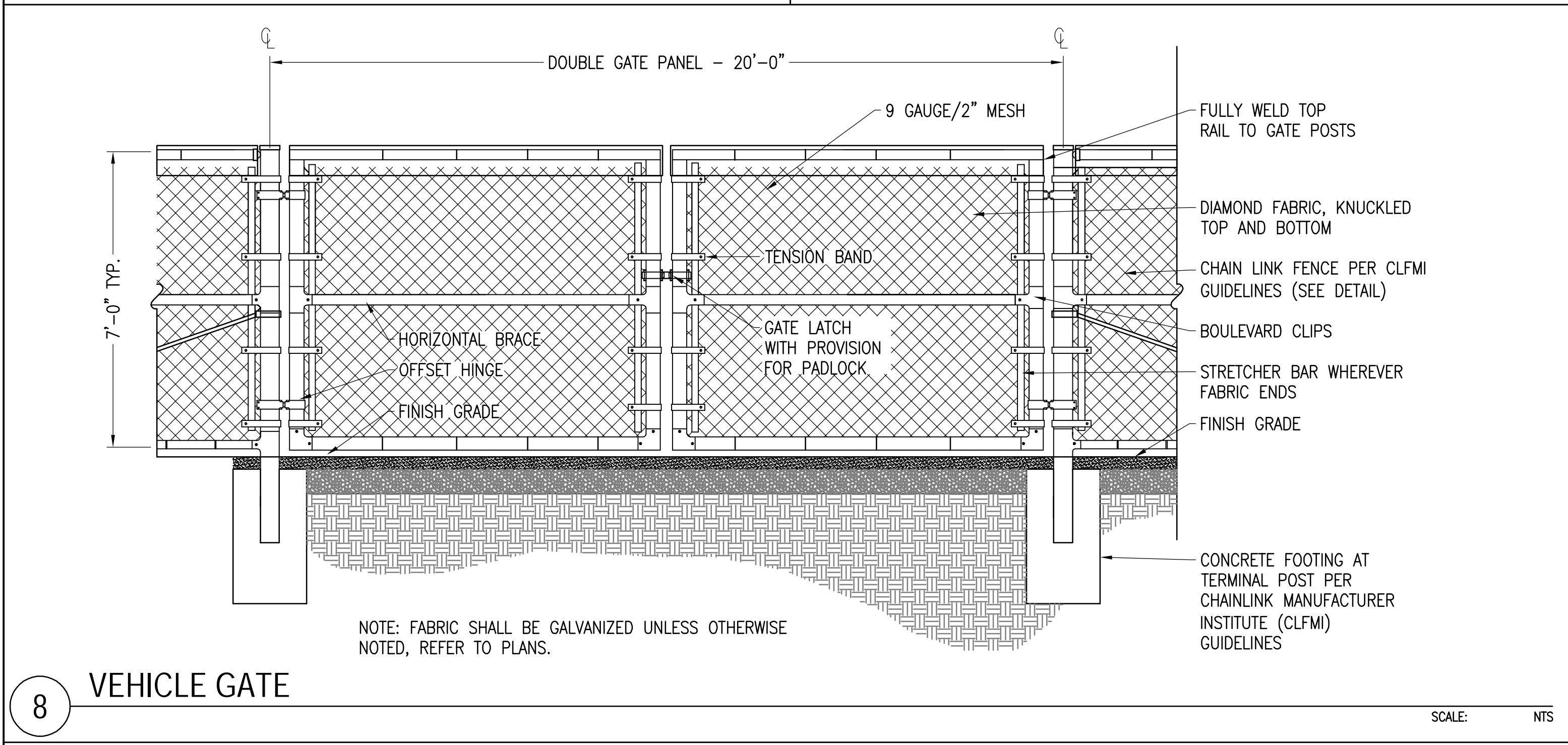
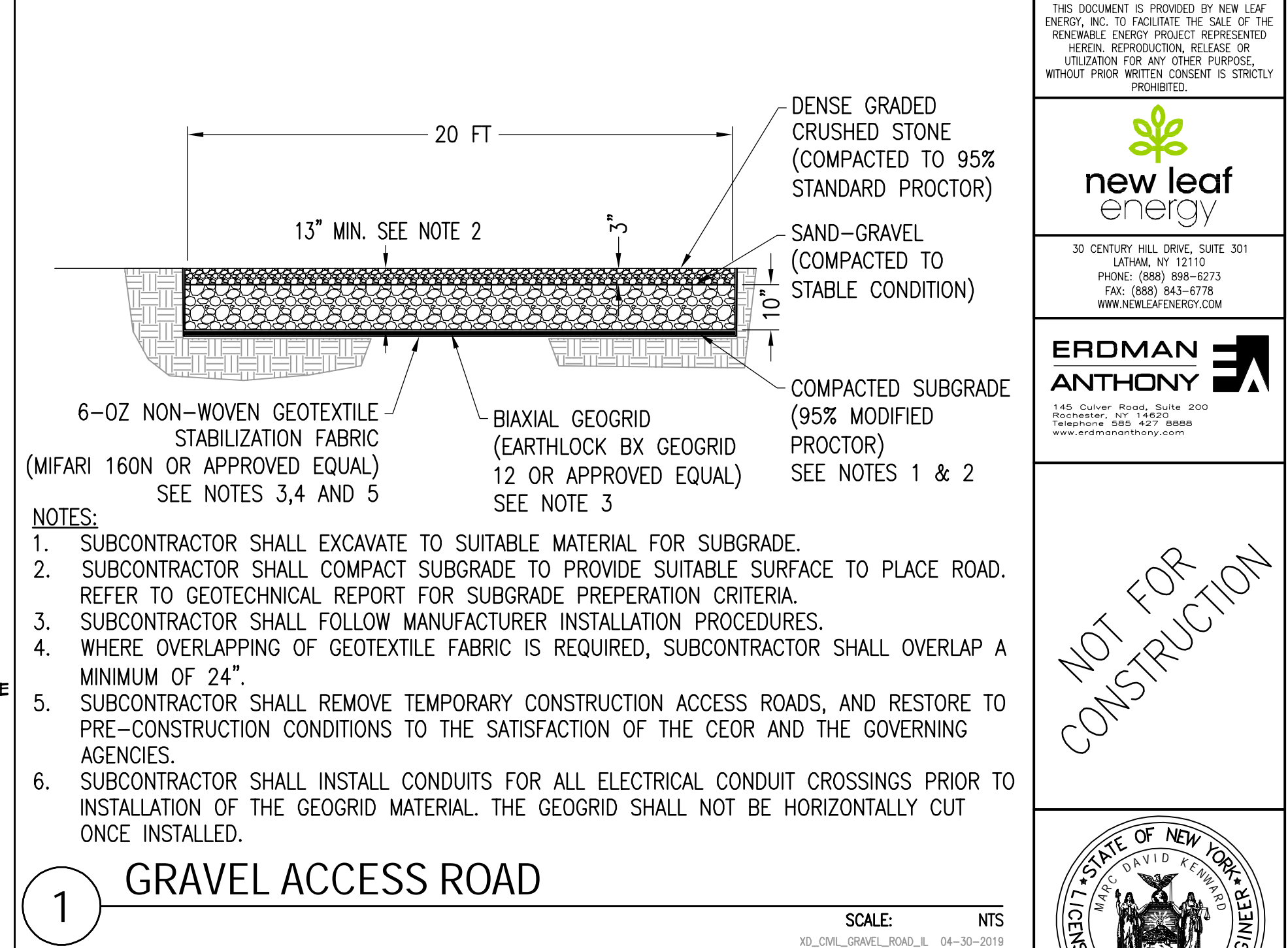
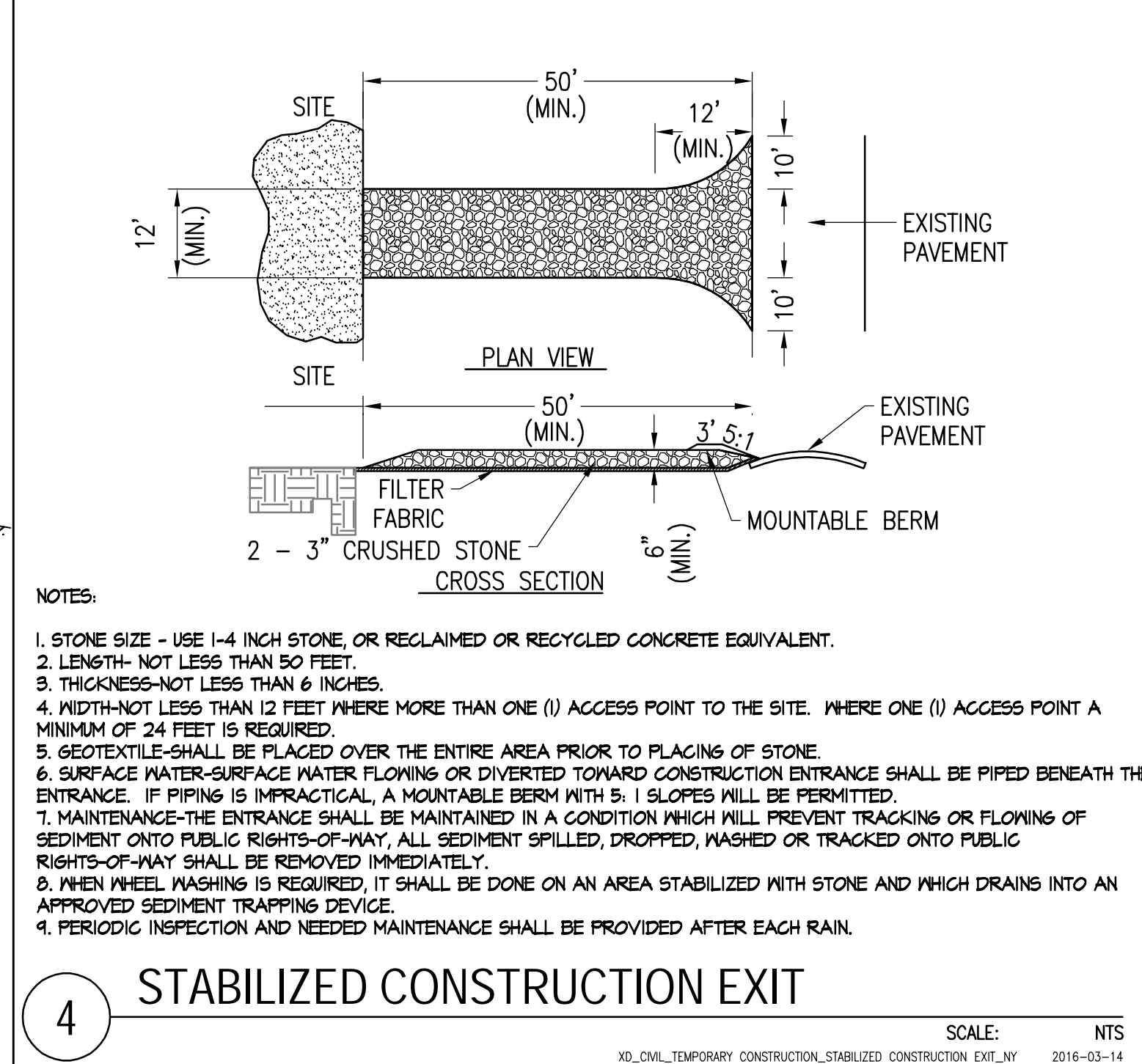
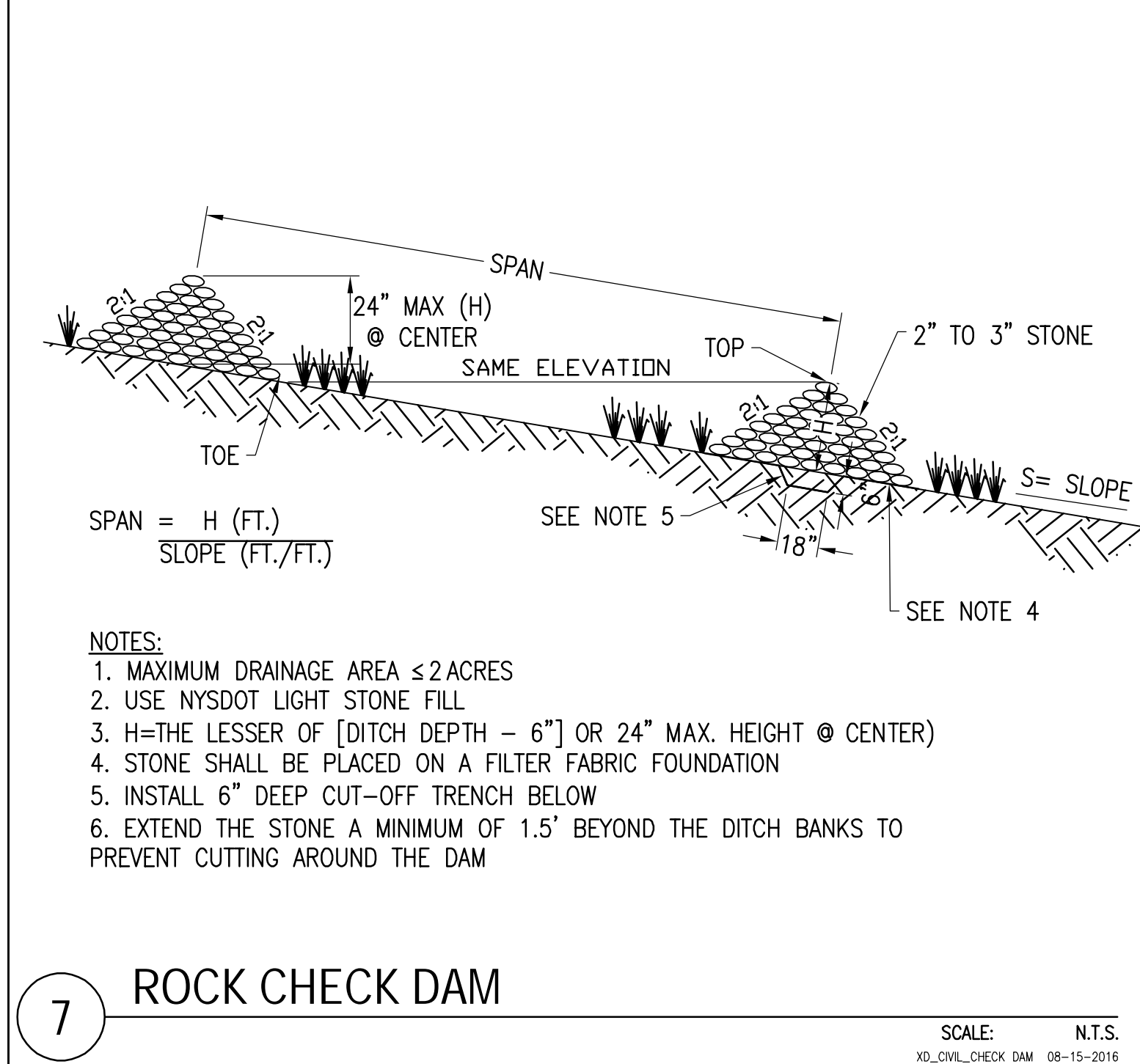
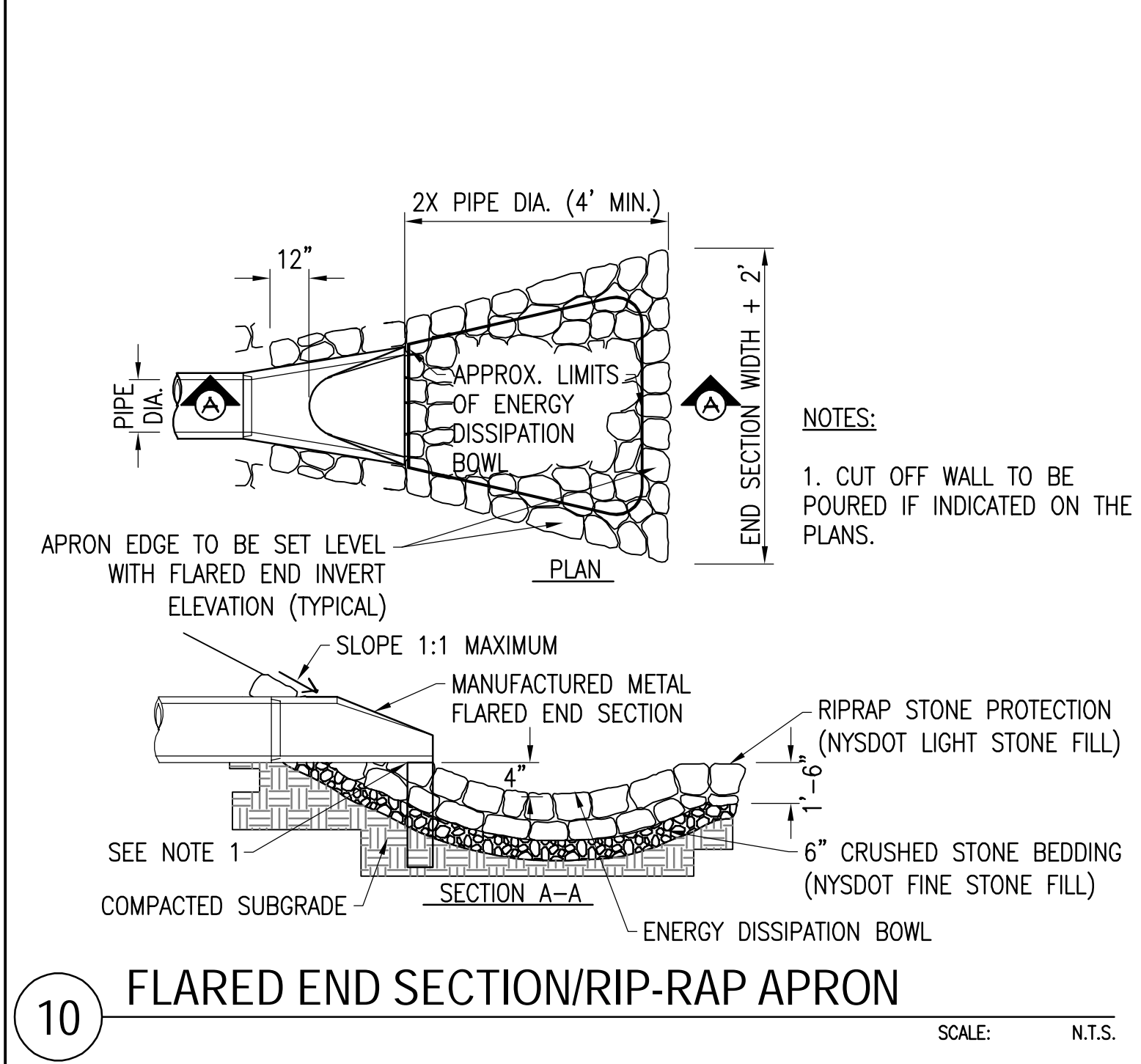
N/F  
JACOB R. SCOTT  
INSTR. #DE2012004669  
TM #186.00-1-27.2

N/F  
TODD R. VIANESE  
L.2541 P.95  
TM #186.00-1-28



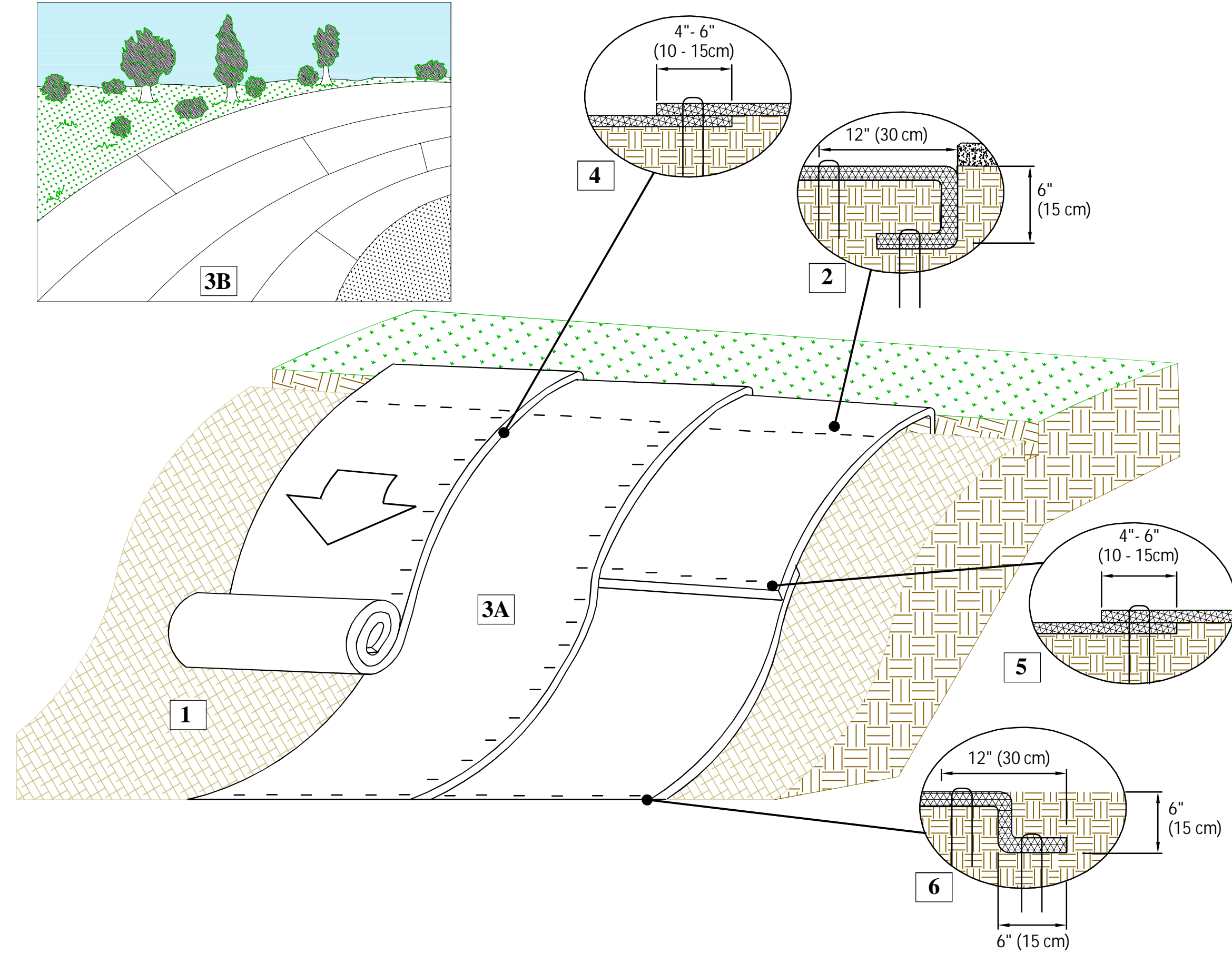
# GRADING AND EROSION CONTROL PLAN

SCALE: 1"=100'



REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RO/DAK	MDK	PRELIMINARY SUP SET
2	8/30/23	SEF/DAK	MDK	PRELIMINARY SUP SET

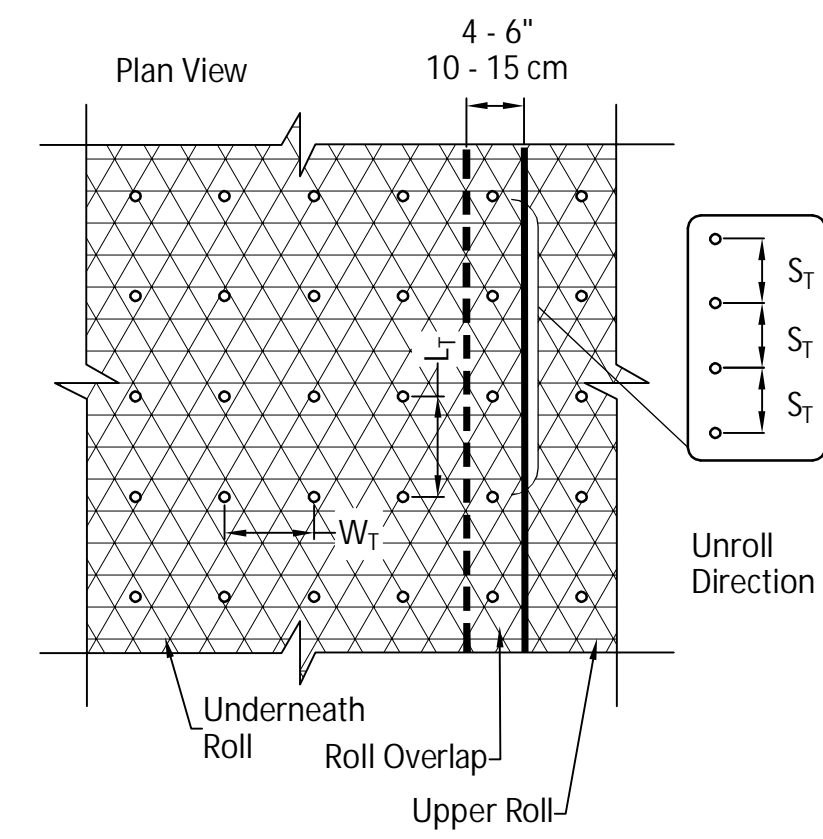
SCALE: 1/8" = 1'-0" (AS NOTED)  
SCALE: 1/4" = 1'-0" (AS NOTED)  
SCALE: 1/2" = 1'-0" (AS NOTED)  
SCALE: 3/4" = 1'-0" (AS NOTED)  
SCALE: 1" = 1'-0" (AS NOTED)



### Instructions

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
2. Begin at the top of the slope by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench. Anchor the RECPs with a row of staples/stakes/pins spaced at  $S_T$  apart in the bottom of the trench. Backfill and compact the trench after stapling and fold the roll over downslope. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced at  $S_T$  apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide. RollMax RECPs and ECBs should utilize Staple Pattern C, TRMs and VMax materials should utilize Staple Pattern D.
4. The edges of parallel RECPs must be stapled with approximately 4" - 6" (10 - 15 cm) overlap.
5. Consecutive RECPs spliced down the slope must overlapped with the upstream mat atop the downstream mat (shingle style). The overlap should be 4" - 6" (10 - 15 cm).
6. At the terminal end, secure each mat across the width with a row of staples/stakes/pins spaced at  $S_T$ . If exposed to flow, foot traffic, wind uplift or other disruption, trench the terminal end in as shown in detail.
7. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may be used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.

### Staple Pattern Guide



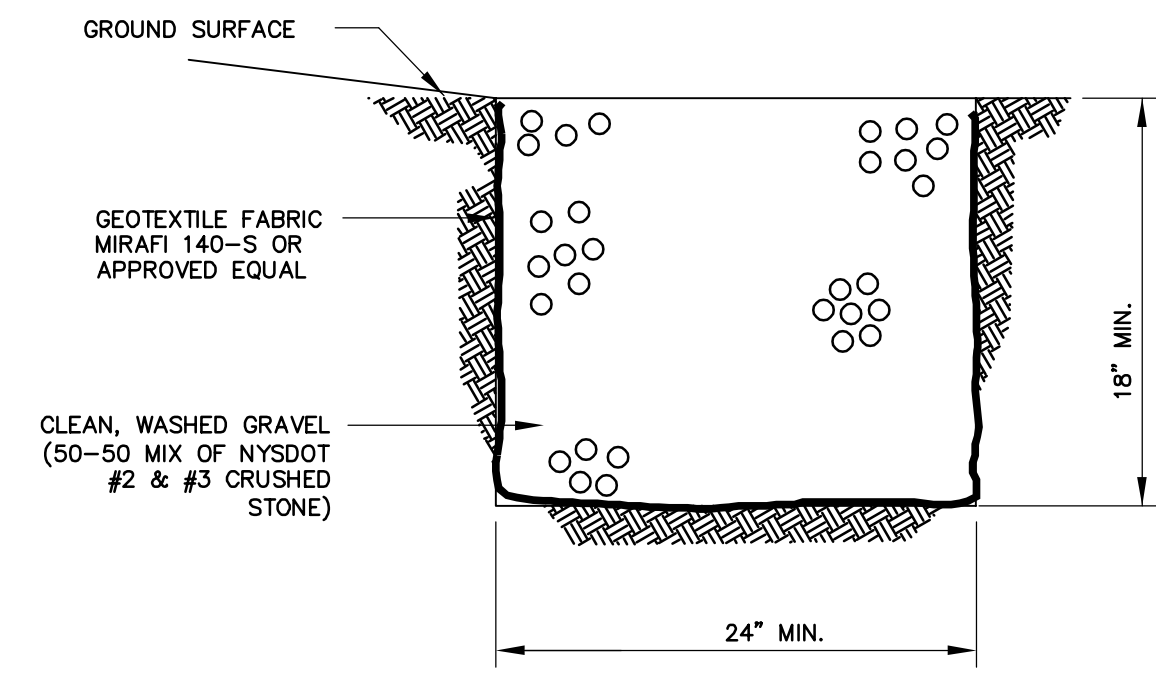
- Pin / Staple / Twist Pin, as appropriate for field conditions

Dimension	Staple Pattern	
	C	D
$W_T$	30" (75 cm)	24" (60 cm)
$L_T$	30" (75 cm)	20" (50 cm)
$S_T$	18" (45 cm)	18" (45 cm)
Nominal Frequency	1.7 / SY	3.0 / SY
Application	ECB (Degradable)	TRM (Permanent)

\*Note: Staple Pattern A and B used prior to 8/2019 have been discontinued.

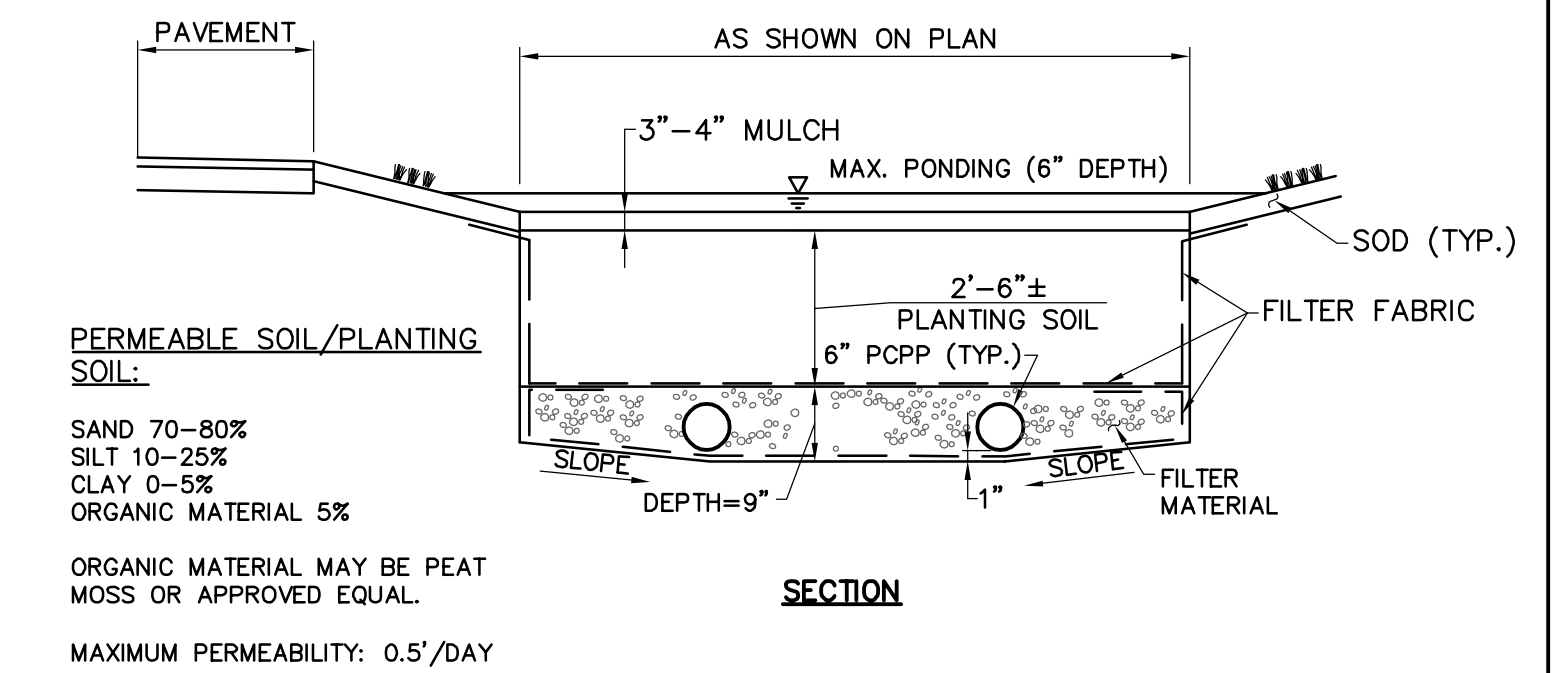
NOTES:  
1. STABILIZE ALL AREAS OF SOIL MATERIAL PLACEMENT WITH SEED AND ROLLED EROSION CONTROL BLANKET NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL.

SLOPE (%)	SPACING (FT.)
< 5	125
5-10	100
10-20	75
20-35	50
> 35	25



### STONE DIAPHRAGM / LEVEL SPREADER

1

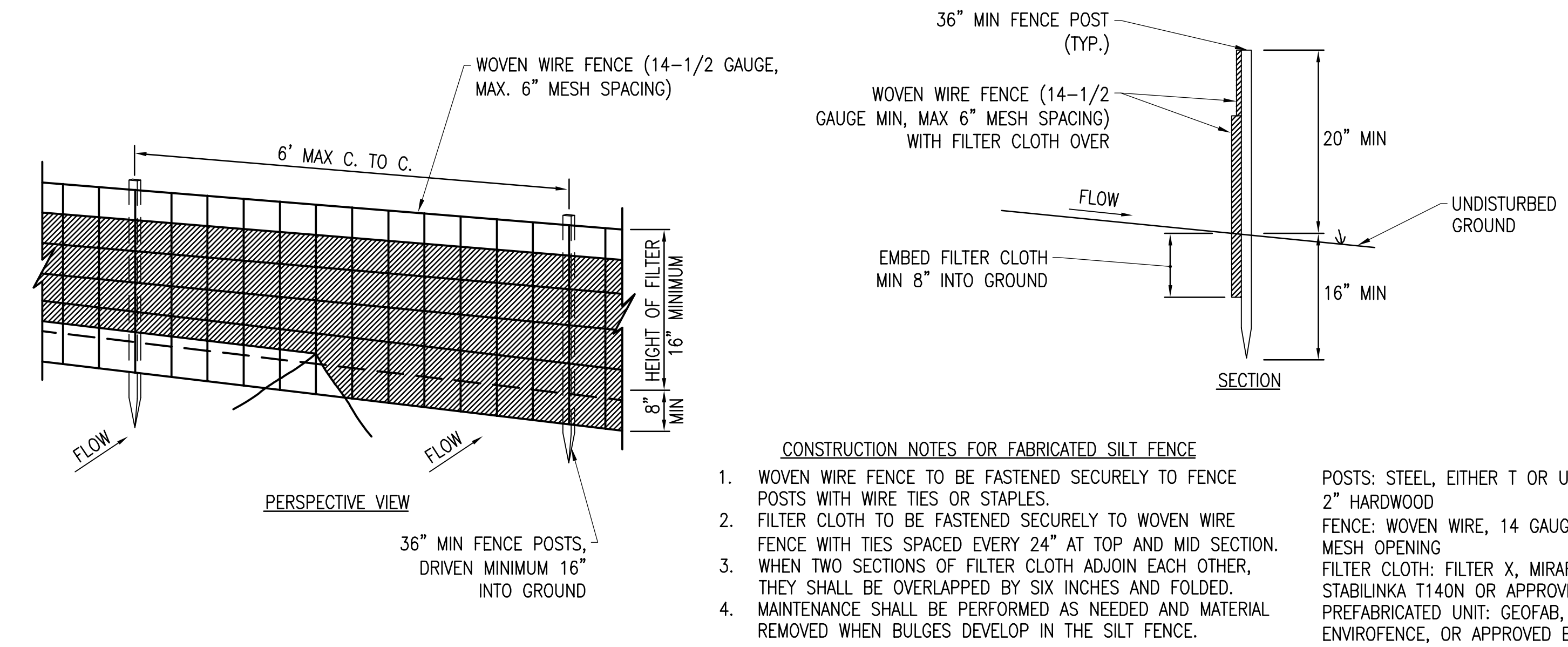


### BIO-RETENTION AREA

Scale: NTS

### EROSION CONTROL BLANKET

4



### CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. 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.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- POSTS: STEEL, EITHER T OR U TYPE OR 2" HARDWOOD  
FENCE: WOVEN WIRE, 14 GAUGE 6" MAX. MESH OPENING  
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL  
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

### SILT FENCE DETAIL

5

SCALE: NTS  
XD\_CIVL\_SILT-FENCE-DETAIL\_03-07-2016

NOT FOR CONSTRUCTION

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SOUTH HILL ROAD  
SOUTH HILL ROAD  
CHERRY CREEK, NY 14723

PROJECT NUMBER:  
120-1118, 120-1119,  
120-1120

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RO/DJK	MDK	PRELIMINARY SUP SET
2	8/30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

SCALE: NTS  
ARCH: 9" x 12" x 30"

C-5.1  
CIVIL DETAILS



NOT FOR CONSTRUCTION



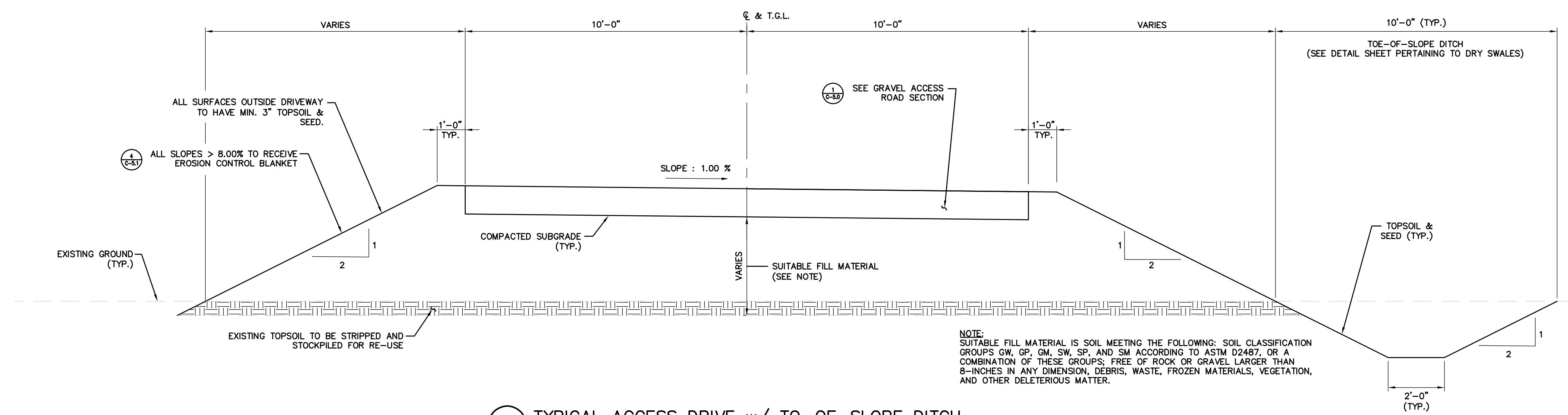
IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SOUTH HILL ROAD  
 SOUTH HILL ROAD  
 CHERRY CREEK, NY 14723

PROJECT NUMBER:  
 120-1118, 120-1119,  
 120-1120

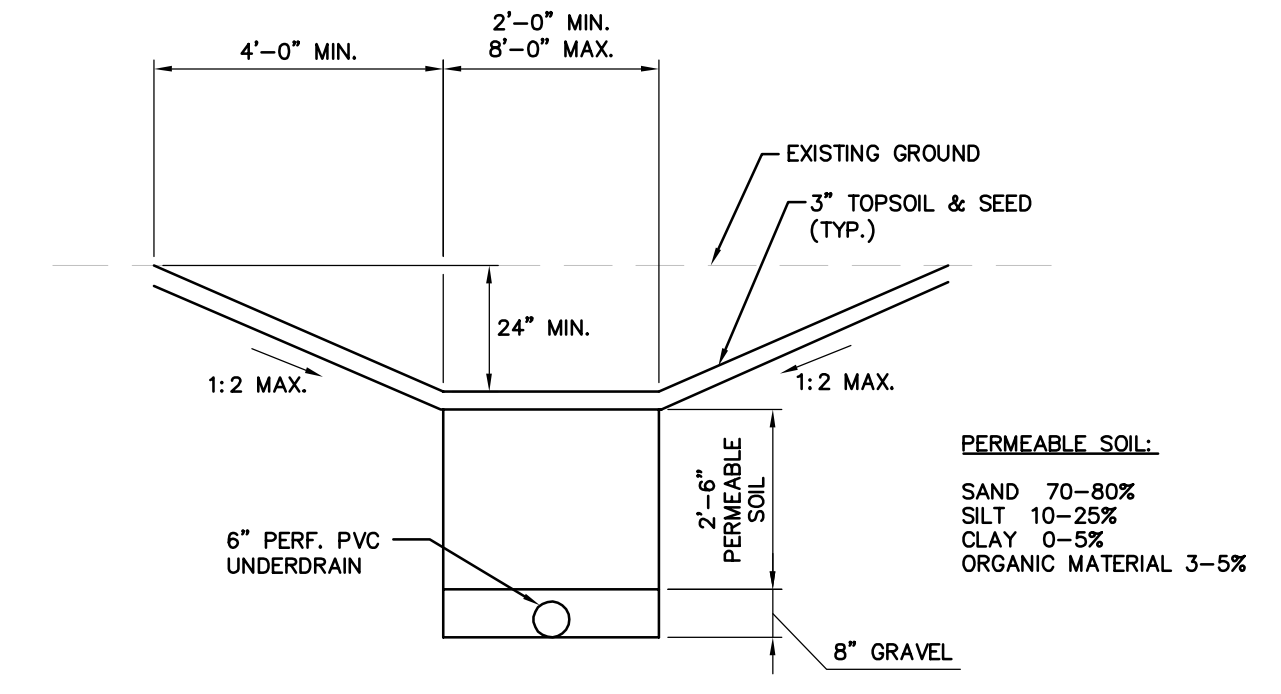
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	10/24/23	RF/DJK	MDK	PRELIMINARY SUP SET
	8/30/23	SEF/DJK	MDK	PRELIMINARY SUP SET

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" x 36"

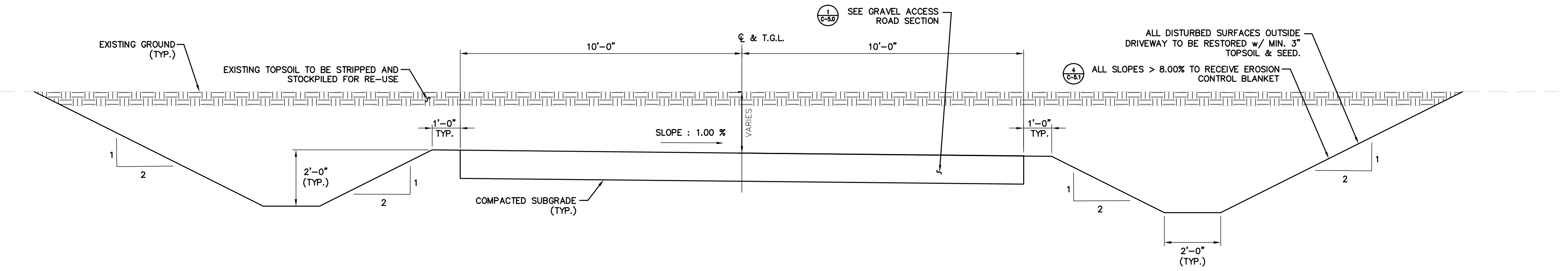


1 TYPICAL ACCESS DRIVE w/ TO-OF-SLOPE DITCH (FILL SECTION)  
 SCALE: 3/8"=1'-0"

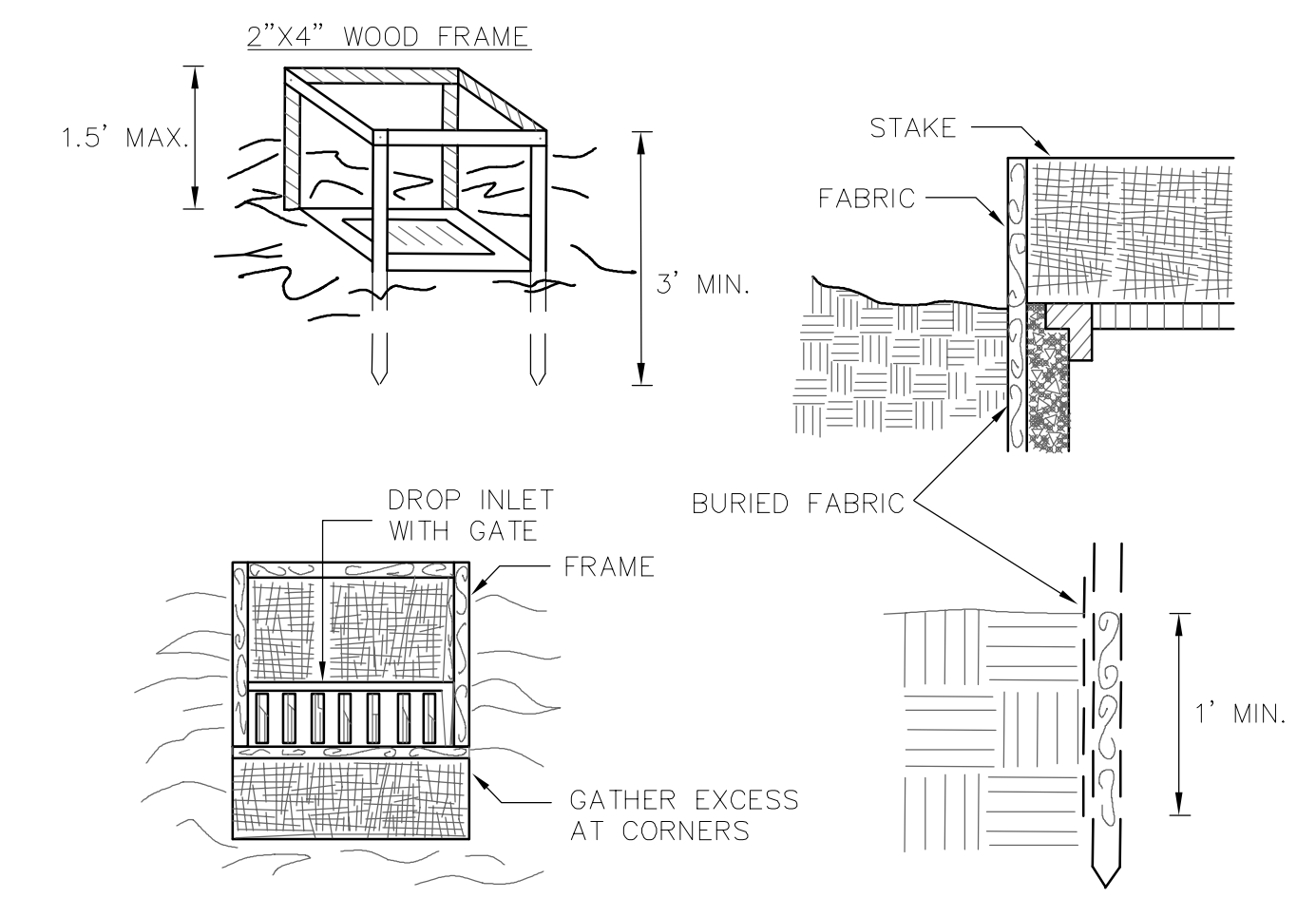
NOTE:  
 SUITABLE FILL MATERIAL IS SOIL MEETING THE FOLLOWING: SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D2487, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 8-INCHES IN ANY DIMENSION; DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.



3 TYPICAL DRY SWALE DESIGN  
 SCALE: 1/4"=1'-0"



2 TYPICAL ACCESS DRIVE w/ ROADSIDE DITCHES (CUT SECTION)  
 SCALE: 3/8"=1'-0"



**CONSTRUCTION SPECIFICATIONS:**

- FABRIC SHALL HAVE AN AOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
  - CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS, IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
  - STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
  - SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FABRIC FOR SUPPORT.
  - FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
  - A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
- MAXIMUM DRAINAGE AREA 1 ACRE

4 INLET PROTECTION DETAIL  
 N.T.S.