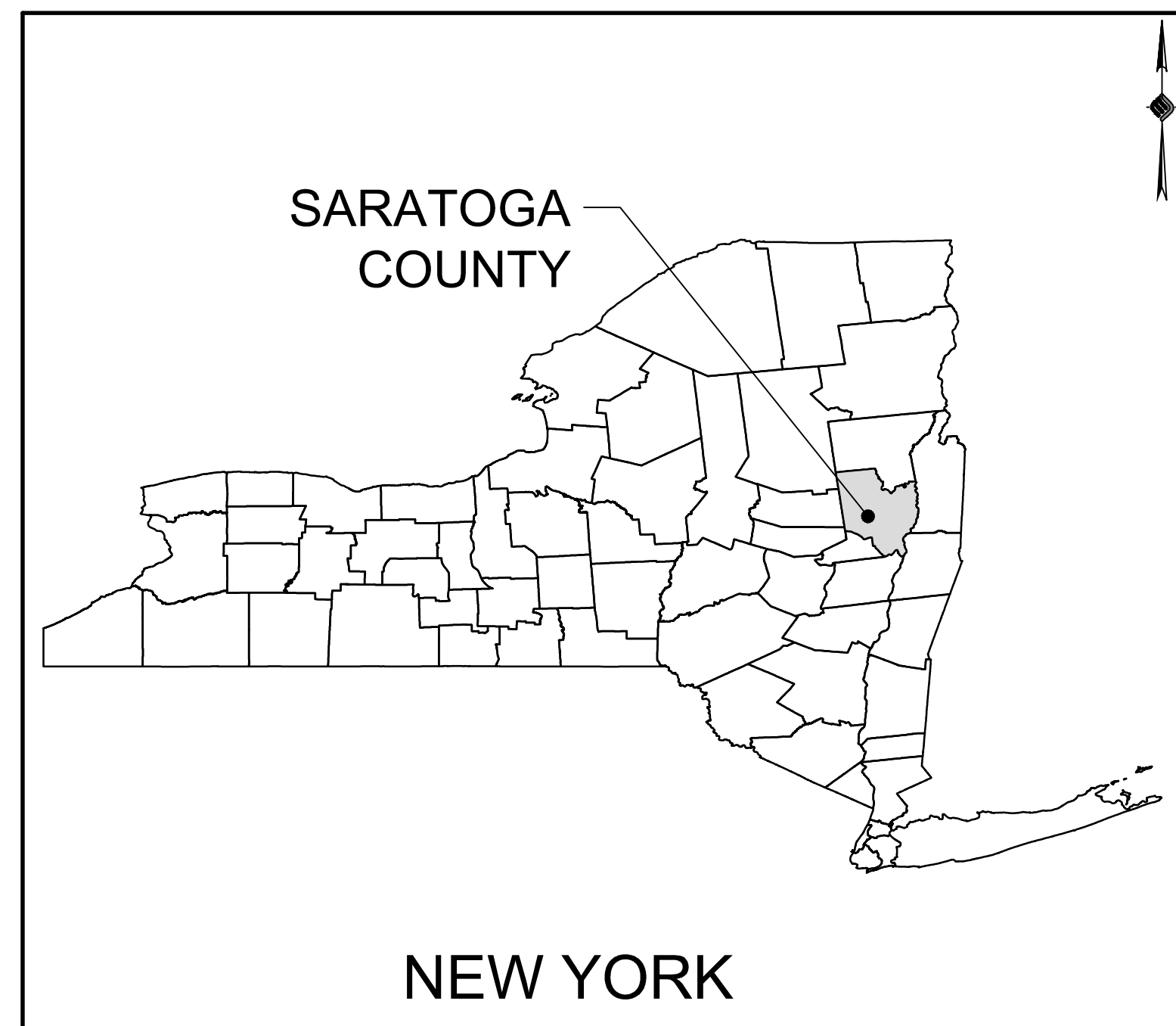


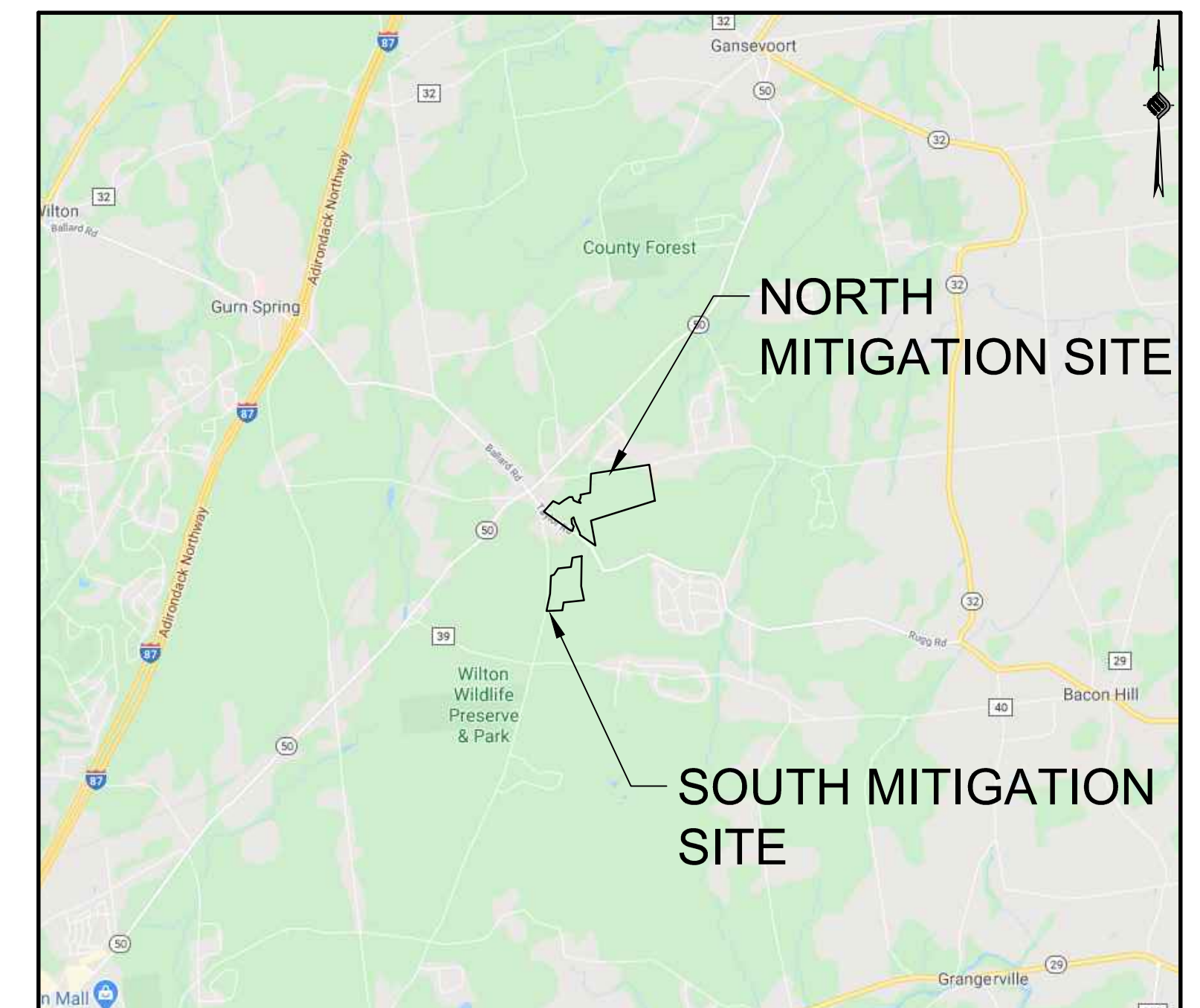
SARATOGA COUNTY OFF-AIRPORT HABITAT MITIGATION



LOCATION MAP

**CONSTRUCTION BID
APRIL 2020**
**WILTON / NORTHUMBERLAND
COUNTY OF SARATOGA
NEW YORK**

FAA A.I.P. 3-36-0004-036-2019
NYS DOT P.I.N. 1902.56
COUNTY BID # 20-PWOAHM-7



VICINITY MAP

PREPARED FOR:




SARATOGA COUNTY
40 MCMASTER STREET
BALLSTON SPA, NEW YORK
(518) 885-2213
WWW.SARATOGACOUNTYNY.GOV

PREPARED BY:

 **McFarland Johnson**
60 RAILROAD PLACE, SUITE 402
SARATOGA SPRINGS, NEW YORK 12866

DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
CV-00	COVER SHEET
GN-01	GENERAL NOTES
CS-01	CONSTRUCTION PHASING PLAN
MT-01	SOUTH SITE
MT-02	NORTH SITE
MT-03	MITIGATION DETAILS

SEALED	TURNER C. BRADFORD	
PE_NO	088939	
PE_DATE	APRIL 6, 2020	

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GENERAL NOTES:

1. THE UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM A SURVEY PREPARED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, PC, 88 DURYEA ROAD, MELVILLE, NY 11747, DATED JANUARY 27, 2020 AND AVAILABLE SURVEYS AND RECORD MAPS BY OTHERS. MCFARLAND JOHNSON DOES NOT CERTIFY TO THE ACCURACY OF THEIR LOCATION AND/OR COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND EXTENT OF ALL UNDERGROUND STRUCTURES AND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION ACTIVITIES IN THEIR VICINITY. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES FIELD STAKED BEFORE STARTING WORK BY CALLING 1-800-962-7962.
2. THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH TITLE 29 OF FEDERAL REGULATIONS, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA).
3. HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC. AT ALL TIMES. ALL CATCH BASINS AND STORM SEWER MANHOLES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY THE TOWN.
4. THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER BEFORE DEVIATING FROM THESE PLANS.
5. EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
6. AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECT'S CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
7. UNLESS COVERED BY THE CONTRACT SPECIFICATIONS OR AS NOTED ON THE PLANS, ALL WORK SHALL CONFORM TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 8, 2015 AND ANY SUBSEQUENT REVISIONS.
8. MAINTENANCE AND PROTECTION OF TRAFFIC ALONG WITH SECURING THE WORK AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR SHALL LOCATE, MAKE, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND ROW MONUMENTS IN THE AREAS OF CONSTRUCTION.
10. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SAFETY PROCEDURES. THE OWNER AND/OR ARCHITECT/ ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB CONTRACTOR OR THEIR AGENTS, EMPLOYEES OR ANY OTHER PERSON PERFORMING ANY OF THE WORK.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATION ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATION OR APPLICABLE CODES, IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS REP. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE OWNERS REP. SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
12. THE CONTRACTOR SHALL CONTACT THE ENGINEER IF THEY DISCOVER ANY UTILITY LINE NOT NOTED ON THE SURVEY, TO DETERMINE IF THE LINE IS ACTIVE.
13. MCFARLAND-JOHNSON, INC. PERFORMED SITE RECONNAISSANCE AND DELINEATED WETLANDS IN OCTOBER 2019.
14. MITIGATION CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE MITIGATION MANAGEMENT AND PROTECTION PLAN, USFWS BIOLOGICAL OPINION, AND NYSDEC INCIDENTAL TAKE PERMIT.
15. CONTRACTORS SHALL USE CONSTRUCTION ENTRANCES WITH A SWING GATE AS INDICATED ON THE PLANS. SWING GATE SHALL BE KEPT CLOSED AT ALL TIMES OUTSIDE OF NORMAL WORKING HOURS.
16. WORK HOURS SHALL COMPLY WITH LOCAL NOISE ORDINANCES.
17. CONSTRUCTION VEHICLES AND EQUIPMENT SHALL NOT BE PARKED ON TOWN ROADWAYS.
18. ALL EQUIPMENT AND VEHICLES USED ON SITE WILL BE CLEANED OF ALL VISIBLE SOIL OR PLANT MATTER BEFORE ENTERING THE SITE TO PREVENT THE SPREAD OF INVASIVE PLANT SPECIES.
19. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE
20. CONSTRUCTION FENCING SHALL BE PLACED AT THE DRIP LINE (EDGE OF CANOPY) OF SAVE TREES TO PRESERVE THE MAJORITY OF THE ROOT MASS AND PREVENT ANY MECHANICAL DAMAGE TO THE TRUNK.
21. TREE STUMPS, ROOT BALLS, AND HEAVY ROOT MATERIAL SHALL BE REMOVED AND EITHER BE HAULED OFF-SITE OR CHIPPED ON-SITE AND HAULED AWAY. UNDER NO CIRCUMSTANCES SHALL THIS MATERIAL BE BURIED ON THE SITE.
22. TOPSOIL SHALL BE STRIPPED AND REMOVED OFF-SITE TO BE DETERMINED BY THE CONTRACTOR. TOPSOIL CAN BE BURIED IN SHALLOW PITS OR TRENCHES (NO DEEPER THAN 8") AND COMPACTED TO AVOID FUTURE SUBSIDENCE.
23. FOLLOWING TOPSOIL REMOVAL, LOW-ELEVATION AREAS CLOSE TO THE WATER TABLE SHALL BE LEFT UNDISTURBED.
24. IF TOPSOIL LAYER IS SEVERAL FEET DEEP (I.E. >2'), REMOVAL MAY BE INEFFICIENT. SUCH AN AREA CAN BE COVERED WITH A MINIMUM DEPTH OF 18" OF ADJACENT MINERAL SAND AS DIRECTED BY ENGINEER.
25. SURROUNDING LOWER GRADES SHALL BE BLENDED TO THE DRIP LINE GRADE OF THE SAVE TREES TO AVOID SHEER CUTS.
26. STUMPS REMAINING WITHIN THE DRIP LINE OF SAVE TREES MAY BE LEFT BY THE CONTRACTOR IF REMOVING THEM WOULD DAMAGE THE ROOTS OF THE SAVE TREES.
27. GRADING SHALL BE MOSTLY RESTRICTED TO CREATING A SMOOTH SEED BED AND FILLING POTENTIAL POTHOLES FROM ROOT BALL REMOVAL AND RUTS FROM EQUIPMENT TRACKS.
28. COMPACTION GENERATED ON THE LOGGING ROADS/SKID TRAILS AND LOADING OR STOCKPILE AREAS WILL BE AMENDED AT THE COMPLETION OF CONSTRUCTION BY DEEP TILLAGE AND/OR SOIL RESTORATION.
29. CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR COVER CROP SEEDING.
30. RESTORATION NATIVE SEEDING SHALL BE CONDUCTED BY ENVIRONMENTAL PROFESSIONAL AS DIRECTED BY THE ENGINEER.
31. WOODY PLANTING MAY NOT BE REQUIRED AND SHALL BE NECESSARY ONLY TO PROVIDE ADDITIONAL CANOPY COVER. PLANTING SHALL BE CONDUCTED BY ENVIRONMENTAL PROFESSIONAL AS DIRECTED BY THE ENGINEER.
32. INTERIOR WALKING TRAILS ON SITE SHALL BE RESTORED TO 8" WIDE WITH A MINIMUM 8" LAYER OF MULCH, LEAF LITTER, ETC. TRAIL SURFACE.
33. WORK COMMENCEMENT AND COMPLETION NOTIFICATION TO NYSDEC BASED ON PERMIT CONDITION.
34. INTERIOR 8" WIDE WALKING TRAIL/MAINTENANCE ACCESS LOCATION MAY ADJUST DEPENDING ON CONSTRUCTION OPERATIONS.

GRADING NOTES:

1. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS, INCLUDING SILT FENCE. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE VEGETATION HAS OCCURRED COMPLETELY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
4. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, SARATOGA COUNTY HEALTH DEPARTMENT, AND THE COUNTY OF SARATOGA REQUIREMENTS.
6. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
7. ALL GRADING AND EARTHWORK SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

SEQUENCE OF CONSTRUCTION

1. HOLD A PRE-CONSTRUCTION MEETING WITH PROJECT MANAGER, OPERATOR'S ENGINEER, CONTRACTORS & SUB-CONTRACTORS, AND REPRESENTATIVES OF SARATOGA COUNTY PRIOR TO LAND DISTURBING ACTIVITIES.
2. HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS DESCRIBED IN THE SWPPP AS REQUIRED BY THE GP-0-20-001 HAVE BEEN ADEQUATELY INSTALLED OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR THE COMMENCEMENT OF CONSTRUCTION.
3. CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN ON THE DRAWINGS.
4. INSTALL PERIMETER CONTROLS AT THE LOCATIONS SHOWN ON THE DRAWINGS.
5. CONSULT A QUALIFIED PROFESSIONAL TO PERFORM A SITE INSPECTION AND VERIFY THAT THE INITIAL PHASE OF EROSION CONTROL DEVICES HAVE BEEN INSTALLED PER THE DRAWINGS PRIOR TO COMMENCEMENT OF GROUND DISTURBANCE.
6. BEGIN EARTHWORK OPERATIONS.
7. COMMENCE EARTHWORK. WORK SHALL BE PROGRESSED TO ALLOW A REASONABLE ROUGH GRADING AND EARTH MOVING FOR BULK SITE GRADING.
8. STABILIZE ALL AREAS IDLE IN EXCESS OF 7 DAYS IN WHICH CONSTRUCTION WILL NOT COMMENCE WITHIN 7 DAYS.
9. ADJUST THE EROSION AND SEDIMENT CONTROL PRACTICES AS REQUIRED FOR CONTINUING CONSTRUCTION AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN. THIS SHALL BE A PHASED ADJUSTMENT IN ORDER TO ENSURE THAT RUNOFF FROM ALL DISTURBED AREAS IS TREATED BY APPROPRIATE EROSION AND SEDIMENT CONTROL DEVICES.
10. AS AREAS ARE BROUGHT TO GRADE, STABILIZE WITH TOPSOIL, SEED AND MULCH PER SPECIFICATIONS.
11. A QUALIFIED PROFESSIONAL SHALL PERFORM A SITE ASSESSMENT TO CONFIRM THAT 80% UNIFORM GERMINATION/STABILIZATION HAS BEEN ACHIEVED PRIOR TO THE REMOVAL OF ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROLS.
12. WEEKLY INSPECTIONS SHALL BE PERFORMED BY A QUALIFIED PROFESSIONAL DURING ACTIVE CONSTRUCTION TO VERIFY ADHERENCE TO MITIGATION MANAGEMENT AND PROTECTION PLAN.

QUANTITY TABLES:

Mitigation - Base Bid - South Site			
Item No.	Description Of Item	Unit	Quantity
M-110-5.1	ENGINEER'S FIELD OFFICE	LS	1
M-120-3.1	MAINTENANCE AND PROTECTION OF TRAFFIC	LS	1
M-150-5.1	PROJECT SURVEY AND STAKEOUT	LS	1
C-102-5.1	TEMPORARY SEEDING AND MULCHING	SY	130700
C-102-5.2	CONSTRUCTION ENTRANCE	EA	1
C-102-5.3	INSTALLATION AND REMOVAL OF SILT FENCE	LF	700
C-105-6.1	MOBILIZATION (5% MAX.)	LS	1
P-151-4.1	CLEARING AND GRUBBING	AC	30
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	43600
S-600-5.1	RESTORATION PLANTING	LS	1

Mitigation - Add Alt - North Site			
Item No.	Description Of Item	Unit	Quantity
M-110-5.1	ENGINEER'S FIELD OFFICE	LS	1
M-120-3.1	MAINTENANCE AND PROTECTION OF TRAFFIC	LS	1
M-150-5.1	PROJECT SURVEY AND STAKEOUT	LS	1
C-102-5.1	TEMPORARY SEEDING AND MULCHING	SY	398600
C-102-5.2	CONSTRUCTION ENTRANCE	EA	2
C-102-5.3	INSTALLATION AND REMOVAL OF SILT FENCE	LF	3900
C-105-6.1	MOBILIZATION (5% MAX.)	LS	1
P-151-4.1	CLEARING AND GRUBBING	AC	90
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	132900
S-600-5.1	RESTORATION PLANTING	LS	1



McFarland Johnson
Engineers, Planning & Construction Administration

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P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE

CONSTRUCTION BID

NO.	DATE	DESCRIPTION

CLIENT: **SARATOGA COUNTY**

PROJECT: **WILTON / NORTHUMBERLAND, NEW YORK OFF-AIRPORT HABITAT MITIGATION**

DRAWN	NSO
DESIGNED	ANR
CHECKED	TCB
SCALE	N.T.S.
DATE	APRIL 2020
PROJECT	18139.02



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE

GENERAL NOTES

DRAWING NUMBER

GN-01

02 OF 06

PHASE REQUIREMENTS:

PHASE	CALENDAR TIME	WORK AREA	REQUIREMENTS TO BEGIN	WORK RESTRICTIONS/ REQUIREMENTS	LIQUIDATED DAMAGES	NOTES
BASE BID	120 CALENDAR DAYS	B1	NOTICE TO PROCEED	NONE	\$1,500/ CALENDAR DAY OR PORTION THEREOF	MAY RUN CONCURRENT WITH AREA B2
ADD ALT.	160 CALENDAR DAYS	B2	NOTICE TO PROCEED	NONE	\$1,500/ CALENDAR DAY OR PORTION THEREOF	MAY RUN CONCURRENT WITH AREA B1

WORK ITEMS/SEQUENCE OF CONSTRUCTION:

SEQUENCE	WORK ITEM
1	GRUB EXISTING STUMPS
2	STRIP AND REMOVE EXISTING TOP SOIL
3	ROUGH GRADE TERRAIN
4	PLANT HABITAT SEEDS

WORK ITEMS:

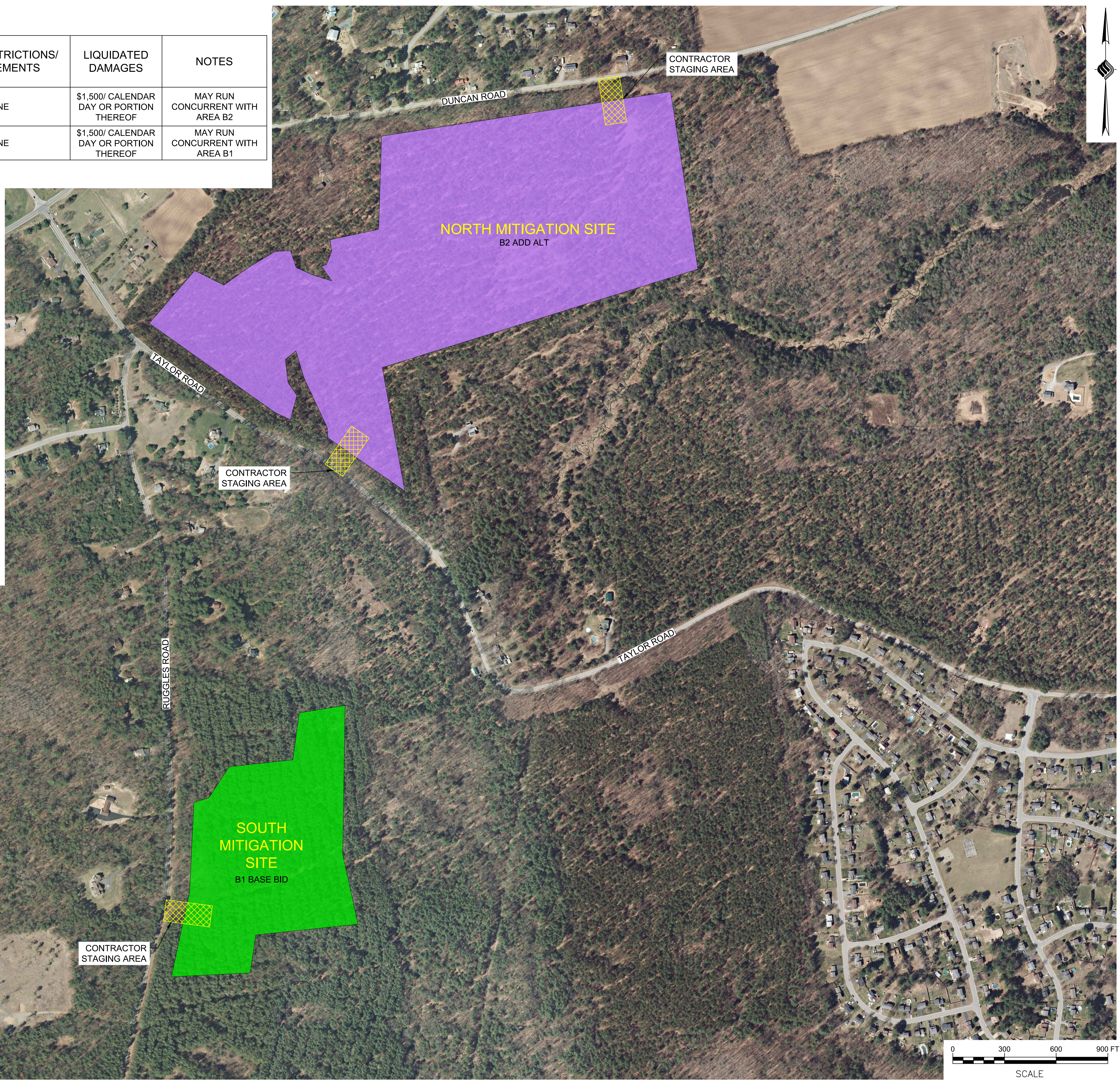
- GRUB EXISTING TREE STUMPS
- STRIP AND REMOVE EXISTING TOP SOIL
- ROUGH GRADE TERRAIN
- PLANT HABITAT SEEDS

NOTE:

WORK AREA B1 REPRESENTS THE BASE BID. WORK AREA B2 REPRESENTS THE ADD ALTERNATE.

LEGEND:

- WORK AREA B1
- WORK AREA B2




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SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P: 518-580-9380 F: 518-580-9383
mjinc.com

PROJECT MILESTONE

CONSTRUCTION BID		
NO.	DATE	DESCRIPTION

CLIENT: SARATOGA COUNTY
WILTON / NORTHUMBERLAND, NEW YORK

PROJECT: OFF-AIRPORT HABITAT MITIGATION

DRAWN	NSO
DESIGNED	ANR
CHECKED	TCB
SCALE	1" = 300'
DATE	APRIL 2020
PROJECT	18139.02



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DRAWING TITLE
CONSTRUCTION SAFETY AND PHASING PLAN

DRAWING NUMBER
CS-01
03 OF 06

SOUTH SITE 25 ACRES

ALL WORK SHOWN ON THIS PLAN IS INCLUSIVE TO THE BASE BID

129.-1-62
COUNTY OF SARATOGA
103.15 ACRES

129.-1-26
COUNTY OF SARATOGA
100.14 ACRES

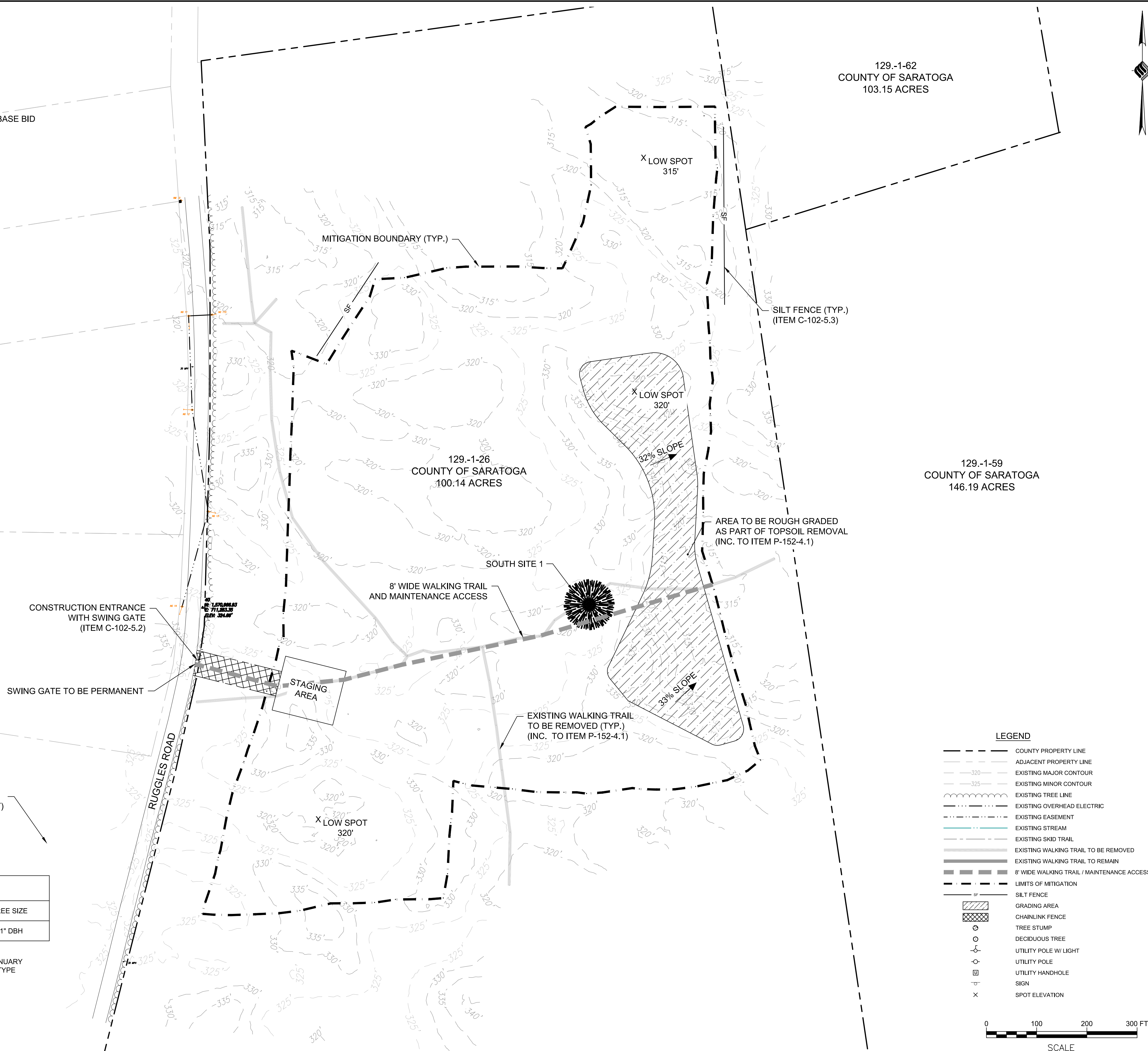
129.-1-59
COUNTY OF SARATOGA
146.19 ACRES

129.-1-116
NYSDEC
157.26 ACRES

NYSDEC FOX TRACT
(BUTTERFLY HABITAT)

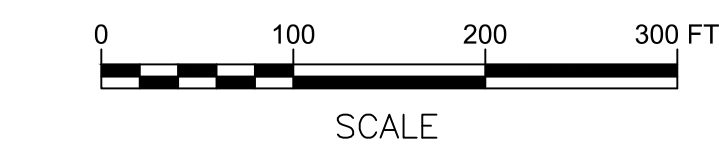
SAVE TREE REPRESENTATIVE PLOT		
REPRESENTATIVE PLOT DESCRIPTION	TREE SPECIES	TREE SIZE
SOUTH SITE 1	BLACK OAK	11" DBH

NOTE:
REPRESENTATIVE PLOTS, LOCATED IN THE FIELD IN DECEMBER 2019/JANUARY 2020, ARE APPROXIMATELY 1/2 ACRE. PLOT REPRESENTS THE TYPICAL TYPE AND SIZE OF TREES TO REMAIN ONSITE WITHIN THE MITIGATION AREA.



LEGEND

- COUNTY PROPERTY LINE
- ADJACENT PROPERTY LINE
- 320- EXISTING MAJOR CONTOUR
- 325- EXISTING MINOR CONTOUR
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING SKID TRAIL
- EXISTING WALKING TRAIL TO BE REMOVED
- EXISTING WALKING TRAIL TO REMAIN
- 8' WIDE WALKING TRAIL / MAINTENANCE ACCESS
- LIMITS OF MITIGATION
- SF SILT FENCE
- GRADING AREA
- CHAINLINK FENCE
- ⊙ TREE STUMP
- DECIDUOUS TREE
- ⊕ UTILITY POLE W/ LIGHT
- ⊖ UTILITY POLE
- ⊙ UTILITY HANDHOLE
- ⊙ SIGN
- x SPOT ELEVATION



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SaratogaROM@mjinc.com

PROJECT MILESTONE

CONSTRUCTION BID		
NO.	DATE	DESCRIPTION

CLIENT: SARATOGA COUNTY
WILTON / NORTHUMBERLAND, NEW YORK
PROJECT: OFF-AIRPORT HABITAT MITIGATION

DRAWN	NSO
DESIGNED	ANR
CHECKED	TCB
SCALE	1" = 100'
DATE	APRIL 2020
PROJECT	18139.02

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DRAWING TITLE
SOUTH SITE

DRAWING NUMBER
MT-01
04 OF 06



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 WILTON / NORTHUMBERLAND, NEW YORK
 PROJECT: **OFF-AIRPORT HABITAT MITIGATION**

DRAWN	NSO
DESIGNED	ANR
CHECKED	TCB
SCALE	1" = 150'
DATE	APRIL 2020
PROJECT	18139.02

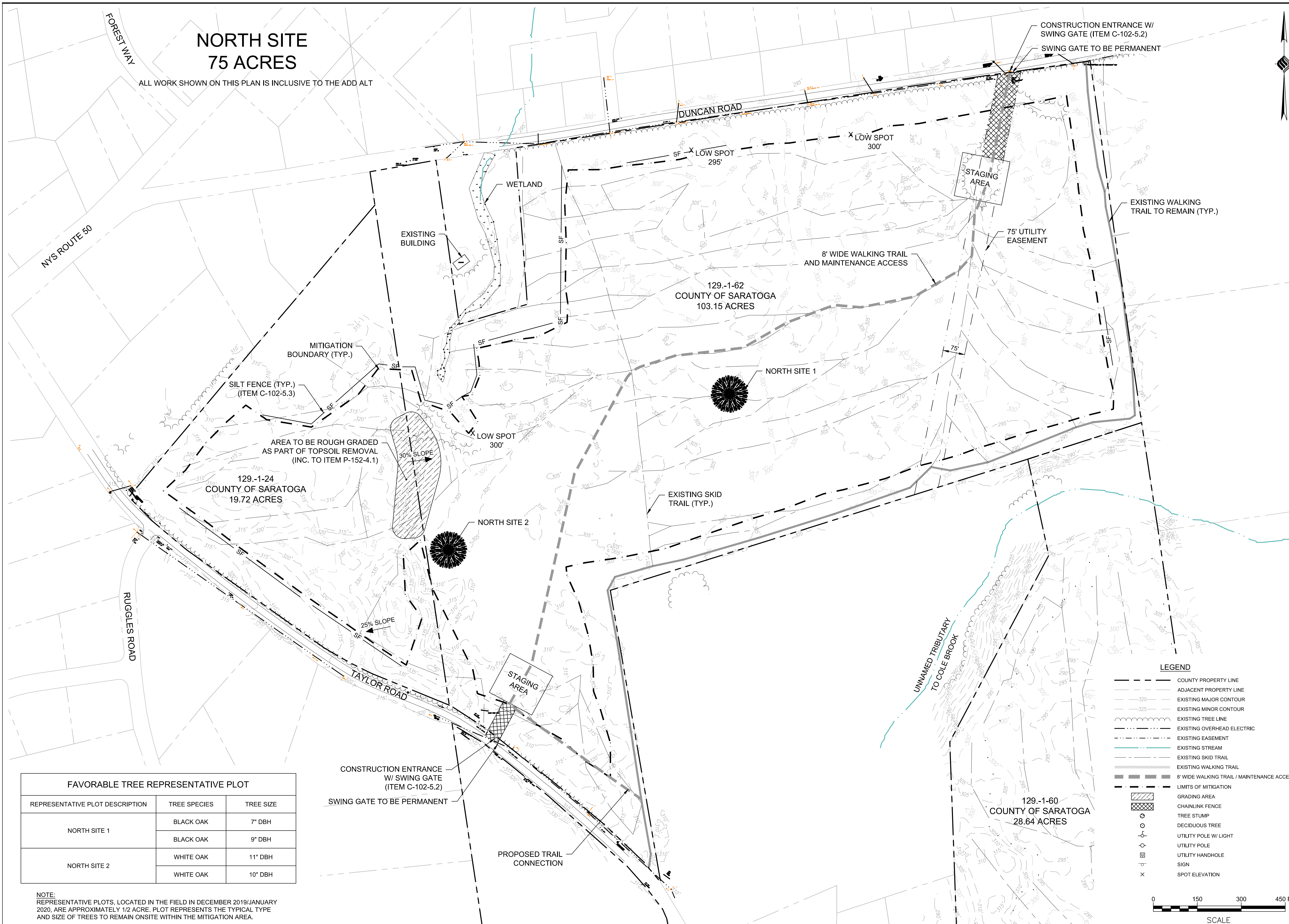


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DRAWING TITLE
NORTH SITE
 DRAWING NUMBER
MT-02
 05 OF 06

NORTH SITE 75 ACRES

ALL WORK SHOWN ON THIS PLAN IS INCLUSIVE TO THE ADD ALT



FAVORABLE TREE REPRESENTATIVE PLOT

REPRESENTATIVE PLOT DESCRIPTION	TREE SPECIES	TREE SIZE
NORTH SITE 1	BLACK OAK	7" DBH
	BLACK OAK	9" DBH
NORTH SITE 2	WHITE OAK	11" DBH
	WHITE OAK	10" DBH

NOTE:
 REPRESENTATIVE PLOTS, LOCATED IN THE FIELD IN DECEMBER 2019/JANUARY 2020, ARE APPROXIMATELY 1/2 ACRE. PLOT REPRESENTS THE TYPICAL TYPE AND SIZE OF TREES TO REMAIN ONSITE WITHIN THE MITIGATION AREA.

LEGEND

- COUNTY PROPERTY LINE
- ADJACENT PROPERTY LINE
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- EXISTING TREE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING SKID TRAIL
- EXISTING WALKING TRAIL
- 8' WIDE WALKING TRAIL / MAINTENANCE ACCESS
- LIMITS OF MITIGATION
- GRADING AREA
- CHAINLINK FENCE
- ⊙ TREE STUMP
- ⊙ DECIDUOUS TREE
- ⊙ UTILITY POLE W/ LIGHT
- ⊙ UTILITY POLE
- ⊙ UTILITY HANDHOLE
- ⊙ SIGN
- X SPOT ELEVATION

0 150 300 450 FT
 SCALE



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PROJECT MILESTONE

CONSTRUCTION BID

NO.	DATE	DESCRIPTION

CLIENT: SARATOGA COUNTY
 WILTON / NORTHUMBERLAND, NEW YORK
 PROJECT: OFF-AIRPORT HABITAT MITIGATION

DRAWN	NSO
DESIGNED	ANR
CHECKED	TCB
SCALE	N.T.S.
DATE	APRIL 2020
PROJECT	18139.02



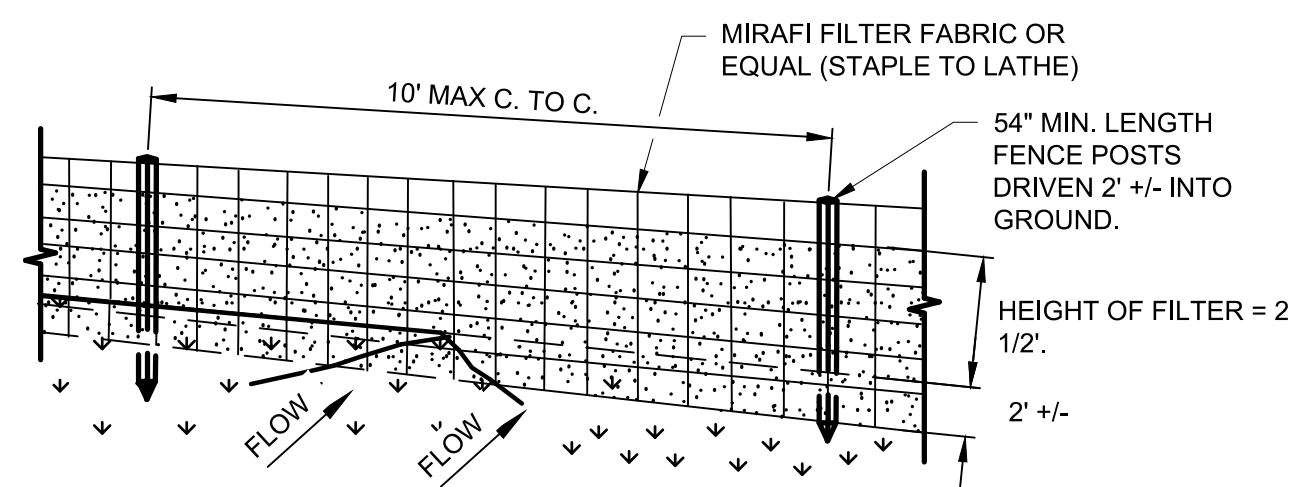
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DRAWING TITLE
MITIGATION DETAILS

DRAWING NUMBER

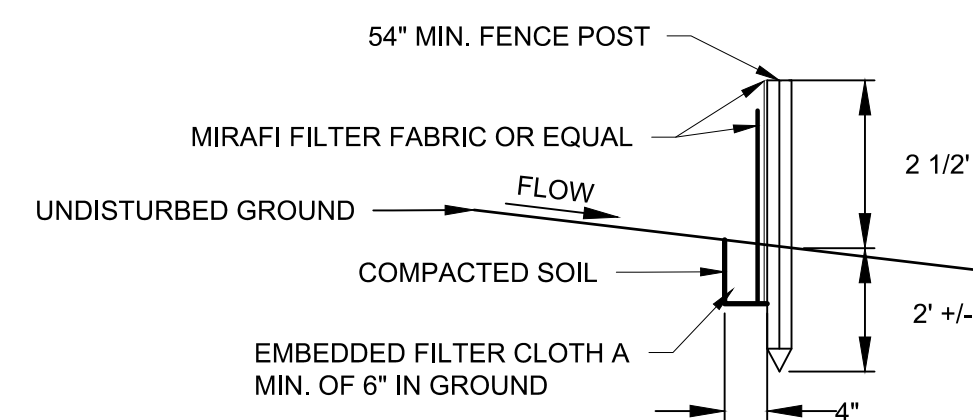
MT-03

06 OF 06



PERSPECTIVE VIEW

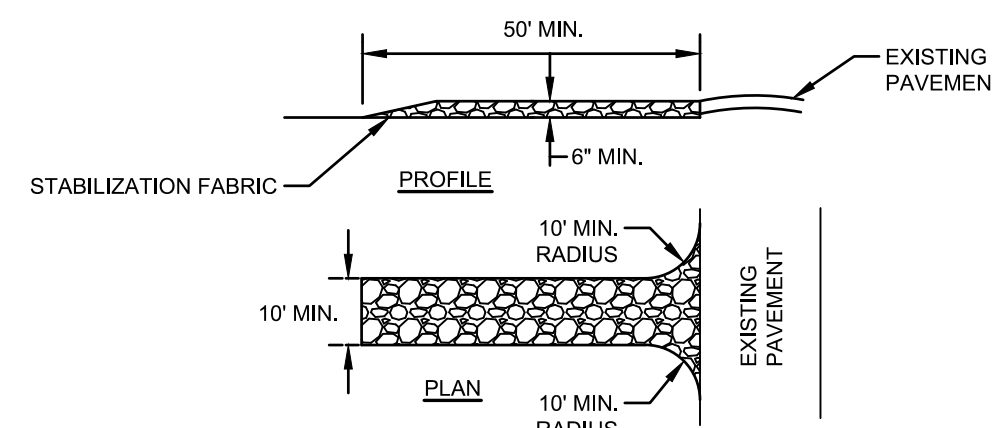
- NOTES:
- MIRAFI FILTER FABRIC TO BE SECURED TO FENCE POSTS WITH STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



SECTION VIEW

SILT FENCE

(ITEM C-102-5.3)

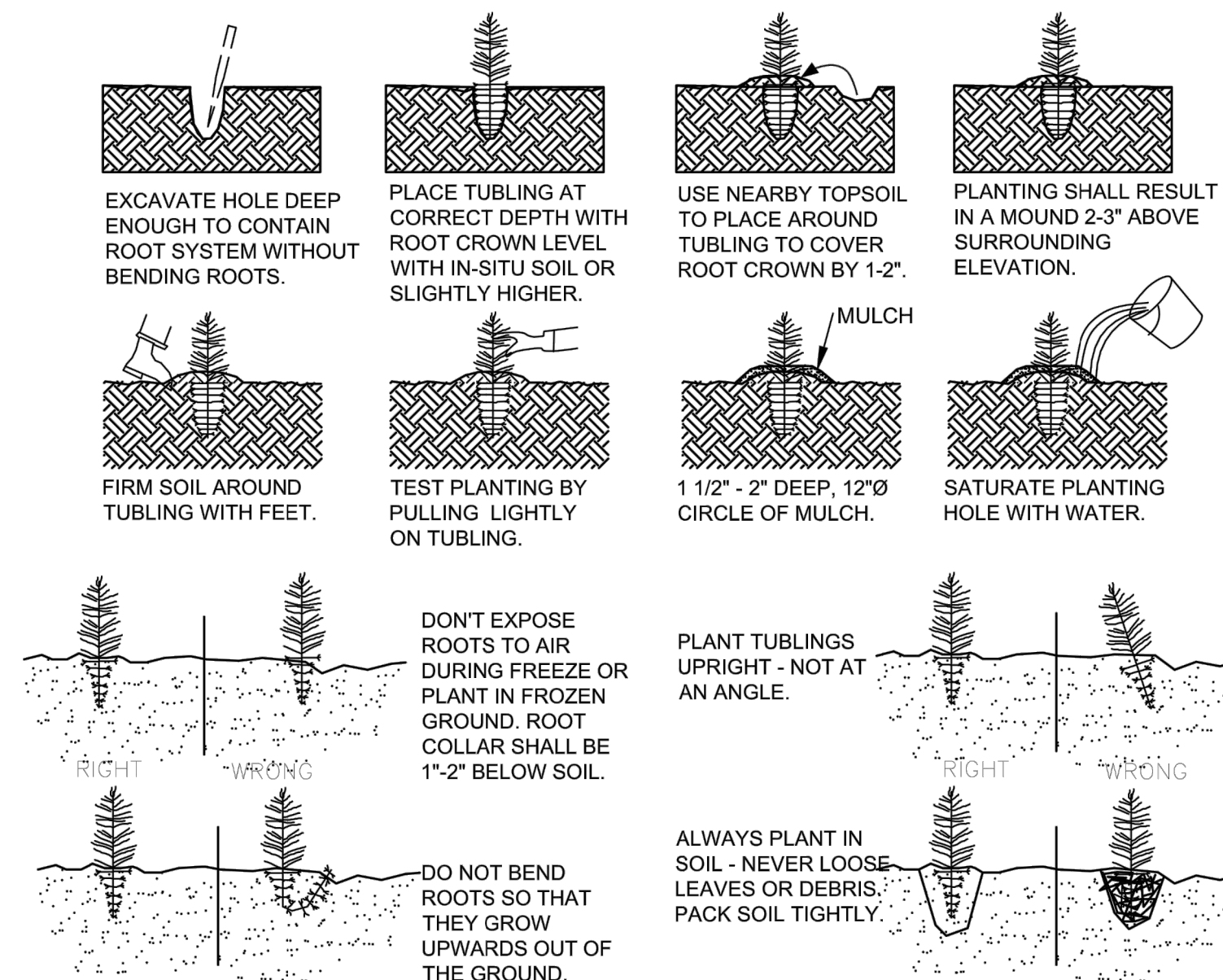


NOTES:

- STONE SIZE - USE #3 CRUSHED STONE OR GRAVEL (PER NYS DOT SECTION 209).
- LENGTH - NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

(ITEM C-102-5.2)



PLANTING TUBELINGS

(INCIDENTAL TO ITEM S-600-5.1)

SITE MANAGED BY COUNTY OF SARATOGA FOR KARNER BLUE BUTTERFLY AND FROSTED ELFIN IN COOPERATION WITH NYSDEC AND USFWS
NO MOTORIZED VEHICLES
PLEASE RESPECT HABITAT AND STAY ON TRAILS

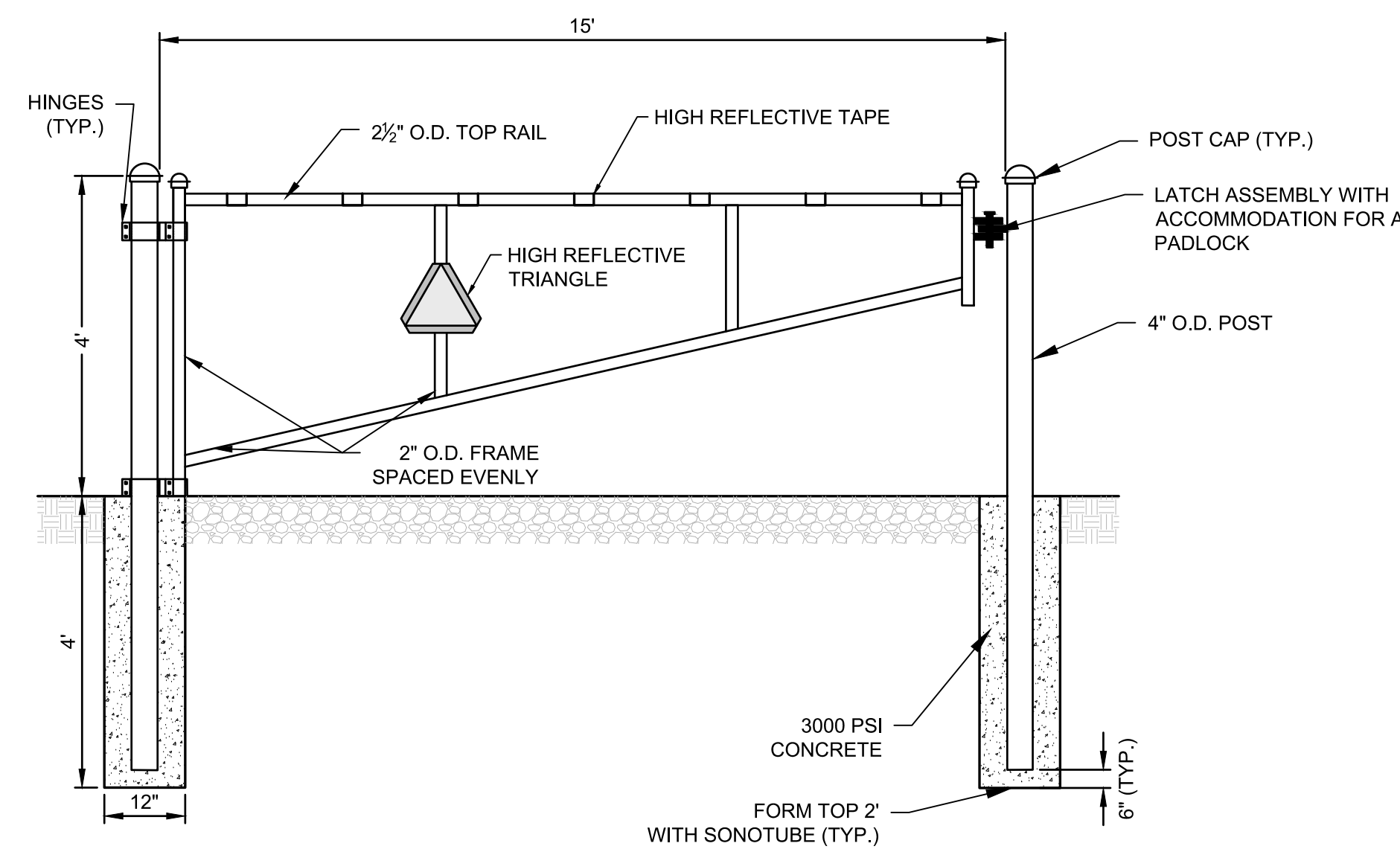
PLEASE STAY ON TRAIL

- NOTES:
- SIGN FOR PERMANENT INSTALLATION AT CONSTRUCTION ENTRANCES. SIGN FACE TO BE PROVIDED BY SARATOGA COUNTY.
 - SIGN TO BE INSTALLED AT EACH CONSTRUCTION ENTRANCE OR AS DIRECTED BY THE ENGINEER.
 - SIGN INSTALLATION SHALL BE ON A DOUBLE STRUT AND SHALL CONFORM TO NYS DOT SPECIFICATIONS SECTION 645.

SIGNAGE

(INCIDENTAL TO ITEM M-120-3.1)

- NOTES:
- SIGN FOR PERMANENT INSTALLATION ALONG WALKING TRAILS. SIGN FACE TO BE PROVIDED BY SARATOGA COUNTY.
 - SIGN TO BE INSTALLED ALONG THE INTERIOR TRAIL EVERY 100 FT. AND ALONG THE EXTERIOR TRAIL EVERY 200 FT. OR AS DIRECTED BY THE ENGINEER.
 - SIGN INSTALLATION SHALL BE ON A SINGLE STRUT AND SHALL CONFORM TO NYS DOT SPECIFICATIONS SECTION 645.



NOTES:

- ALL STEEL PIPE TO BE GALVANIZED STEEL.
- CONCRETE INCLUSIVE TO ITEM M-120-3.1.
- A COMMERCIAL GRADE COMBINATION PADLOCK WITH THE SAME COMBINATION SHALL BE INSTALLED ON ALL MAINTENANCE GATES, AN ADDITIONAL TWO (2) PADLOCKS SHALL BE FURNISHED TO THE OWNER INCLUSIVE TO ITEM M-120-3.1.

MANUAL SINGLE SWING BARRIER GATE

(INC. TO ITEM M-120-3.1)

SEED AND PLANTING TABLES:

COVER CROP (INC. TO ITEM C-102-5.1)					
BOTANICAL NAME	COMMON NAME	SPRING	SUMMER	FALL	LBS./AC
LOLIUM MULTIFLORUM	ANNUAL RYE	X	X		30
AVENA SATIVA	COMMON OAT		X		40
SECALE CERALE	WINTER RYE			X	40

RESTORATION NATIVE SEED MIX (INC. TO ITEM S-600-5.1)				
BOTANICAL NAME	COMMON NAME	OZ/ACRE	LBS/AC	SEEDS PSF
ANEMONE VIRGINIANA	TALL ANEMONE	3	0.19	1.93
APOCYNUM CANNABINUM	INDIAN HEMP	1.8	0.11	0.83
ASCLEPIAS SYRIACA	COMMON MILKWEED	4	0.25	0.39
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	8	0.5	0.79
CEANOTHUS AMERICANUS	NEW JERSEY TEA	2.9	0.18	0.51
LUPINUS PERENNIS	BLUE LUPINE	56	3.5	1.27
MONARDA PUNCTATA	HORSE MINT	1.95	0.12	4.03
SCHIZACHYRIUM SCOPARIUS	LITTLE BLUESTEM	11.61	0.73	4.0
SOLIDAGO NEMORALIS	OLD-FIELD GOLDENROD	0.05	0.0	0.34
		89.31	5.58	14.09

WOODY ENHANCEMENT SPECIES (INC. TO ITEM S-600-5.1)			
BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY/AC
AMELANCHIER SPICATA	DWARF SERVICEBERRY	TUBELING 12-18"	12
CORYLUS AMERICANA	AMERICAN HAZELNUT	TUBELING 12-18"	6
PINUS RIGIDA	PITCH PINE	TUBELING 12-18"	5
SALIX HUMILIS	PRAIRIE WILLOW	TUBELING 12-18"	12