











BROAD-BASED DIP - Sediment Removal Efficiency: VERY LOW. This device by itself is not an ABACT for special protection watersheds, but like a waterbar can be used to make an ABACT BMP work more effectively. Broad-based dips may be used to direct runoff from active access roads to well-vegetated areas or sediment removal BMPs (e.g. sediment traps or sediment basins). Broadbased dips, unlike waterbars, are easily traversed by most construction equipment and typically require less maintenance to ensure their integrity. Due to the nature of broad-based dips, they should not be constructed on roads with grades exceeding 10%. Where access roads exceed 10% gradients, insloping or other deflection devices should be used to control runoff.

Discharges should be to the downslope side of access roads with a maximum gradient of 3% in the dip. For access roads with grades up to 5%, Standard Construction Detail # 3-6 should be used. Roadways with steeper grades should use Standard Construction Detail # 3-7.

TABLE 3.2 – Maximum Spacing of Broad-based Dips, Open-top Culverts and Deflectors

Road Grade (Percent)	Spacing Between Dips, Culverts, or Deflectors (feet)
<2	300
3	235
4	200
5	180
6	165
7	155
8	150
9	145
10	140

USDA Forest Service

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STANDARD CONSTRUCTION DETAIL #3-8

Open-top Culvert

USDA Forest Service

Culverts shall be inspected weekly and after runoff events.

Damaged or non-functioning culverts shall be repaired by the end of the workday. Accumulated sediment shall be removed within 24 hours of inspection. Maximum spacing of open-top culverts shall be as shown in Table 3.2.

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the workday.

Maine DEP

Broad-based dips shall be constructed to the dimensions shown and at the locations shown on the plan drawings.

Dips shall be oriented so as to discharge to the low side of the roadway.

Dips shall be inspected daily. Damaged or non-functioning dips shall be repaired by the end of

Maximum spacing of broad-based dips shall be as shown in Table 3.2

Broad-based dips shall be constructed to the dimensions shown and at the locations shown on the plan drawings.

Dips shall be oriented so as to discharge to the low side of the roadway.

Dips shall be inspected daily. Damaged or non-functioning dips shall be repaired by the end of the workday.

Maximum spacing of broad-based dips shall be as shown in Table 3.2.

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USDA Forest Service

Deflector shall be inspected weekly and after each runoff event.

Accumulated sediment shall be removed from deflector within 24 hours of inspection.

Belt shall be replaced when worn and no longer effective.

Maximum spacing of deflectors shall be as shown in Table 3.2.

Limit of clearing ____ 197 - 196 Silt fenc 192

INCORRECT Silt fence installed parallel to slope (perpendicular to contour) in one, long run

Purpose:

The proper operation of silt fence depends on the ability to temporarily pond runoff behind the fence, allowing time for sediments to settle. Silt fence is **not** a filter. If water flows around the end(s), the silt fence fails to function. It must be placed where it will store water - often times along a slope a '**smile**' or J-Hook shape is required to create a storage area. Long runs should be avoided, and broken up into smaller segments.

Slope Steepness	Maximum Space between silt fence rows or J-hooks (ft.)	-
2:1 (50%)	25	
3:1 (33%)	50	
4:1 (25%)	75	
5:1 or flatter (20%)	100	

Figure A7.2 Installation of "J-Hooks" on slopes (Adapted from CNMI DEQ, 2009)

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10 ft.

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90 State Street Albany, NY 12207

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CORRECT

Silt fence installed in shorter runs with "J-Hooks" to avoid concentration of flows at one location by trapping runoff at multiple points along a slope.

Typical J-Hook Dimensions Minimum width of J-Hook recommended at 20 ft with a depth of 10 ft. Where space is limited (e.g., along narrow rights of way), narrower hooks can be used with a higher spacing frequency.

Revision – May 2010 (Silt Fence)

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Cayuga County, New York

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		TOE OF FILL	M WIDTH	
RFLOW (EOF) ELEVATION			PLAN VIEW	OFFILL
DF ELEVATION	FLOW FLOW GEOTEXTILE FABRIC	RAINAGE SWALE E)	BERM WIDT	H TOP OF BI EMERGEN GEOTEXTILE FABRIC
KEY-IN FABRIC	D50=9" RIPRAP 18" DEPTH	RAP PAD -	SECTION A-A	EX DIST
TO NATIVE SOIL (TYP)			GEOTEXTILE FABR UNDERNEATH RIPRA	RM D50=9" RIPRAP EOF DEPTH 18" DEPTH RIPRAP IC AP P)EOF WIDTH
TROL FEATURES	NOTES: 1. REFER TO TABLE 4 ON SHEET C717 2. SEE PLANS FOR BASIN LOCATION 3. ALL GRADED SLOPES SHALL BE A 4. REFER TO PROJECT SWPPP AND E 5. IMMEDIATELY FOLLOWING BASIN SHALL REMAIN UNTIL PROJECT SI	7 FOR ELEVATIONS AND SIZES. IS. MAXIMUM 3:1 UNLESS SHOWN OTHERW SC PLAN FOR ADDITIONAL BASIN BMPS A I CONSTRUCTION, THE SIDE SLOPES OF TH ITE IS FULLY STABILIZED AND THE BASIN IS STO	'ISE. AND INSPECTION AND MAINTENANCE HE BASIN SHALL BE FULLY STABILIZED. S RESTORED OR CONVERTED TO PERM RMWATER INFILTRATION BASIN	EMERGENCY OVERFLOW PROCEDURES. TEMPORARY EROSION AND SEDIME ANENT CONDITIONS.
NOT TO SCALE				
↓ 12" MIN ↓	1.5" OPEN DRESSING BETWEEN PASSABL D50=6" R MIRAFI H OR APPR COMPACE STANDARD ARMORED SURFACE	N-GRADED AGGREGATE TOP G TO FILL SURFACE VOIDS N RIPRAP AND PRODUCE A E DRIVING SURFACE RIPRAP IP270 GEOTEXTILE OVED EQUAL ITED SUBGRADE		P Rion Rion
ES: HANNEL SIDE SLOPES MAY REQ EQUIREMENTS OF CONSTRUCTION HE ACCESS ROAD SHALL CROSS HE FINISHED ACCESS ROAD SUR INIMPEDED AND WITHOUT PON ARMORED SURFACE SHALL EXTEN OP OF BANK OF THE CHANNEL, ERIMETER SEDIMENT CONTROL APPROPRIATE DETAIL FOR INSTAL TABILIZE DISTURBED GROUND IN ROSSING MAY BE INSTALLED DU HE CROSSING FOR DAMAGE FRO	JIRE MODIFICATION TO CONSTRUCT THE ACC ON AND DELIVERY VEHICLES. THE CHANNEL AS CLOSE TO PERPENDICULAR FACE SHALL BE AT AN ELEVATION THAT ALLO DING UPSTREAM OF ROAD OR ON THE ROAD ID THROUGH THE CHANNEL BOTTOM AND UF UNLESS OTHERWISE NOTED. MAY CONSIST OF SILT FENCE, FIBERLOGS, WO LATION REQUIREMENTS. N ACCORDANCE WITH THE NPDES PERMIT. IRING THE PROJECT RESTORATION PHASE. IF DM CONSTRUCTION TRAFFIC. ADDITIONAL M	CESS ROAD THROUGH THE CHANNEL TO N AS POSSIBLE. WS WATER TO FLOW THROUGH THE CHA SURFACE. P THE CHANNEL SIDE SLOPES TO THE OBS OD MULCH BERMS, OR TOPSOIL BERMS. F INSTALLED DURING CONSTRUCTION, MO AINTENANCE OR REPAIRS MAY BE REQUIF	MEET MEET MEET MEET MEET MEET MEET MEET	HE MANUFACTURER OR SUPPLIER OF TATION, AND SPECIFICATION REQUIR ULICALLY APPLIED MATERIAL SHALL ITHORITY. RAULICALLY APPLIED MATERIAL TO E EXPOSED SOILS MAY INCLUDE ROU OPES, ETC. DIL SURFACES IN ACCORDANCE WITH R SPRAY ONTO ROADS AND INFRAS M TWO DIRECTIONS (90 DEGREES BE EQUATE TIME FOR HYDRAULICALLY A ALLY APPLIED MATERIAL SHOULD NO IMMEDIATELY AFTER RAINFALL OR I PRIOR TO HYDRAULICALLY APPLIED FALLY APPLIED MATERIAL PRIOR TO A
IG		NOT TO SCALE	N-01 Westwood SLO	PE STABILIZATION - HYDRAULICALLY

STREAM OR

- DISTURBANCE

LIMITS

CHANNEL EDGE

– STABILIZED DRAINAGE SWALE

RIPRAP PAD

TOP OF BERM

TOP OF CUT_

EMERGENCY

OVERFLOW

(IF APPLICABLE)

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FIGURE 3.1 STONE CHECK DAM DETAIL

FIGURE 3.2

CONSTRUCTION DITCH DETAIL

HAS BEEN REACHED

SURFACE.

FIGURE 12 TRENCH BREAKER DETAIL

FIGURE 2.2 TEMPORARY ACCESS BRIDGE

FIGURE 2.3 TEMPORARY ACCESS CULVERT

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FIGURE 3.6

A-SYMBOL DISCHARGE TO SEMI-CONFINED SECTION (MAXIMUM TAILWATER CONDITION) A-B-----PLANVIEW RISER -MIN. DEPTH = DISCHARGE OR TAILWATER DEPTH, WHICHEVER IS DEPTH DICTATED BY REATER CHANNEL SECTION AT END OF APRON 2 P/PE 6"MIN. ' MIN. GRADED AGGREGATE -----FILTER OR FILTER CLOTH PROFILE VIEW 1.0' w = d + 0.4 La GRADED AGGREGATE GRADED AGGREGATE FILTER OR FILTER CLOTH FILTER OR FILTER CLOTH <u>SECTION B-B</u> (AT END OF APRON) SECTION A-A (AT END OF CULVERT) NOTE: SEE RIPRAP STANDARDS AND SPECIFICATIONS MAXIMUM TAILWATER CONDITIONS ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, RIPRAP OUTLET NEW YORK STATE DEPARTMENT OF TRANSPORTATION, **PROTECTION EXAMPLE** NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

FIGURE 3.20 RIPRAP OUTLET PROTECTION DETAIL (3)

FIGURE 3.18

SCHEDULE FOR STORM DRAIN

AMETER (D)	LENGTH (L)	WIDTH (W)	STONE ^{ds} 50	
12"	8'	12'	6"	
18"	10'	12'	6"	
24"	12'	14'	6"	
30"	16'	20'	12"	
36"	20'	23'	12"	

D ₅₀ (inches)	d _{max} (inches)	Minimum Blanket Thick ness (inches)
4	6	9
6	9	14
9	14	20
12	18	27
15	22	32
18	27	32
21	32	38
24	36	43

FIGURE 3.22 WATER BAR DETAIL

FIGURE 3.19 RIPRAP OUTLET PROTECTION DETAIL (2)

FIGURE 4.8 FIBER ROLL

	SYMBOL	
SAME AS		
NOTE: DISCH CONFINED C	ARGE TO HANNEL SECTION	
DF CHANNEL -		
VNSTREAM C	HANNEL INVERT	
1		
Y FROM 2:1 A HANNEL SLO	T PIPE OUTLET PE AT END OF	
RIPR. PRC	AP OUTLET DTECTION	

EXAMPLE

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Figure 4.1 Angles of Repose of Riprap Stones (FHWA)

Figure 4.2 **Typical Riprap Slope Protection Detail**

FIGURE 4.9

FIGURE 4.10 LANDGRADING

FIGURE 4.18

EXISTING GROUND LINE RIPRAP DESIGN TABLE REACH CLASS THICKNESS LAYER HEIGHT D10 D50 D85 D100 FILTER CONSTRUCTION SPECIFICATIONS 1. SLOPE SHALL BE GRADED TO 2:1 OR FLATTER PRIOR TO PLACING FILTER, FILTER FABRIC, OR RIPRAP. 2. RIPRAP SHALL BE PLACED TO MAINTAIN A UNIFORM GRADATION. LARGER STONE SHALL BE PLACED AT THE TOE. 3. ENDS OF THE RIPRAP SHALL BE KEYED INTO A STABLE BANK. WHEN TYING INTO OTHER STRUCTURES, LARGER RIPRAP CAN BE LAID IN STEPS OR STACKED AS NEEDED TO FIT. STONES LARGER THAN THOSE DESIGNED FOR FLOW SHALL BE USED FOR THIS PURPOSE. 4. REMAINING DISTURBED AREAS SHALL BE GRADED AND PERMANENTLY SEEDED AND

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION,

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,

NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

FIGURE 4.3

RIPRAP CHANNEL STABILIZATION

EXISTING GROUND LINE

MULCHED.

SYMBOL

 \approx

RIPRAP STREAMBANK

PROTECTION

DETAILS

FIGURE 4.11 LANDGRADING - CONSTRUCTION SPECIFICATIONS

SURFACE ROUGHENING

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FIGURE 5.2 COMPOST FILTER SOCK

FIGURE 5.30

FIGURE 5.34 STRAW BALE DIKE

FIGURE 6.23 WET SWALE (O-2)

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TABLE 1: TURBINE TABLE

NEW YORK CENTRAL NSRS11 (2011) SPCS US FEET						
Name	Northing	Easting	Lattitude	Longitud		
T-1	1009795	825082	Q2 7738	726 549		
T-2	1010562	829298	0	3876 546		
T-3	1009034	830109	43.76931	$\frac{31}{76533}$		
T-4	1013228	833479	Q2 7767	<u>9</u> 0 _{6 533}		
T-5	1011699	833625	Q2 7752	$\frac{36}{524}$		
T-6	1011215	835927	2 7712	776 532		
T-7	1009709	833976	42 7659	$\frac{06}{530}$		
T-8	1007789	834291	12.7503	$\frac{89}{76531}$		
T-9	1005090	834249	⁴ 2 7653	42/6 519		
T-10	1007564	837268	22 7597	<u>8076 521</u>		
T-11	1005533	836730	8	<u>8</u> 1 _{76 499}		
T-12	1004814	842437	42.75881	476 543		
T-13	1003047	831045	27495	$\frac{08}{549}$		
T-14	1001791	829215	2 7454	<u>80,6 543</u>		
T-15	1000323	830998	9 42 7504	<u>1676 523</u>		
T-16	1002170	836154	92 7467	<u>4676 5181</u>		
T-17	1000773	837495	42 7452	1 76 494		
T-18	1000252	844089	42 7298	43/6 508		
T—19	994627	840504	27346	<u>64</u> 6476 514		
T-20	996375	838834	42 7298	00,6508		
T-21	994155	838511	27319	<u>64</u> 6476 525		
T-22	995396	835633	\$2,7306	<u>926 534</u>		
T-23	995053	833242	377298	72/6 508		
T-24	991302	831061	5	<u>64</u> 6476,496		
MET-1	998753	843556	43.74316	42/6.504		
MET-2	995503	841280	42,7395	<u>9076,494</u>		
ADLS-1	998166	844094	5	42		

TABLE 2: DRAINAGE CROSSINGS LWC Type Size HEAVY DUTY STANDARD DUTY HEAVY DUTY STANDARD DUTY STANDARD DUTY HEAVY DUTY STANDARD DUTY

Crossing Number	Storm Event	Culvert S
DC01	100	-
DC02	100	2-24"
DC03	100	3-60"
DC04	100	2-36"
DC05	100	3-30"
DC06	100	-
DC07	100	4-54"
DC08	100	4-42"
DC09	100	4-48"
DC10	100	3-36"
DC11	100	-
DC12	100	3-36"
DC13	100	-
DC14	100	-
DC15	100	3-42"
DC16	100	1-18"
DC17	100	3-42"

		_						TABLE 4: STORMW	TER BASIN TABLE								
					EMERGENCY C	VERFLOW		OUTLET C	ULVERT		RISE	R	SKIM	MER			
			BOTTOM ELEVATION	TOP ELEVATION			OUTLET			OUTLET CULVERT LENGTH	ELEVATION		SKIMMER	ORIFICE DIA. SIZE	TOTAL CONTRIBUTING	ASSUMED DISTURBED	PROVIDED STORAGE
BASIN ID	BASIN TYPE	PLAN SHEET	(F1)	(+1)	ELEVATION (FT)	WIDTH (FT)	CULVERT SIZE	ELEVATION (FT)	ELEVATION (FT)	(FT)	(F1)	SIZE (IN)	SIZE (IN)	(IN)	AREA (AC)	AREA (AC)	VOLUME (AC-FT)
Substation	Infiltration	EC309	1218.00	1220.50	1220.00	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.2	N/A	0.80
POI	Filtration	EC310	1244	1247	1246.5	10	6" draintile	1241	1240.5	N/A	N/A	N/A	N/A	N/A	4.2	N/A	0.75

TABLE 3: ENTRANCE CROSSINGS

Crossing Number	Storm Event	Culvert Size	Alternative Options
EC01	100	1-18"	SUMP CULVERT OR LWC
EC02	100	3-30"	-
EC03	100	1-18"	-
EC04	100	1-18" ; 1-12"	-
EC07	100	1-18"	SUMP CULVERT OR LWC
EC08	100	1-18" ; 1-12"	-
EC09	100	1-18" ; 1-12"	-
EC11	100	1-30"	-
EC12	100	1-30"	SUMP CULVERT OR LWC
EC13	100	1-18" ; 1-12"	SUMP CULVERT OR LWC
EC14	100	2-30"	SUMP CULVERT OR LWC
EC15	100	1-18"	-
EC16	100	2-30"	SUMP CULVERT OR LWC
EC17	100	1-18"	-
EC18	100	1-18"	-
EC19	100	2-36"	SUMP CULVERT OR LWC
EC20	100	1-18" ; 1-12"	SUMP CULVERT OR LWC
EC21	100	1-18" ; 1-12"	SUMP CULVERT OR LWC

TA	BL	E	5:	Т	U	R	BI	Ν	Ε	P	A	D

Turbine Name	Restoration Detail Reference					
T-1	RT-04					
T-2	RT-04					
T-3	RT-04					
T-4	RT-04					
T-5	RT-04					
T-6	RT-04					
T-7	RT-04					
T-8	RT-03					
T-9	RT-04					
T-10	RT-03					
T-11	RT-04					
T-12	RT-04					
T-13	RT-04					
T-14	RT-04					
T-15	RT-03					
T-16	RT-04					
T-17	RT-04					
T-18	RT-04					
T-19	RT-04					
T-20	RT-04					
T-21	RT-04					
T-22	RT-04					
T-23	RT-04					
T-24	RT-04					

DRESTORATION

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GENERAL NOTES

THE PLANIMETRIC FEATURES SHOWN ON THE PLANS ARE PROVIDED BY AGRICOLA WIND LLC BASED ON AERIAL PHOTOGRAPHY. GROUND SURFACE CONTOURS AND ELEVATIONS ARE PROVIDED BY AGRICOLA WIND LLC BASED ON AERIAL PHOTOGRAPHY. NOT ACTUAL FIELD SURVEYING. AS SUCH, THE ACCURACY OF THE ELEVATIONS AND CONTOURS ARE NOT AS HIGH AS INFORMATION GATHERED USING CONVENTIONAL FIELD SURVEYING PROCEDURES. THE CONTRACTOR MAY FIND THAT GROUND ELEVATIONS DETERMINED DURING FIELD VARY FROM THE GROUND ELEVATIONS SHOWN ON THE DRAWINGS. WHERE MAJOR DISCREPANCIES ARE FOUND, THE OWNER AND ENGINEER SHALL BE CONTACTED AND NOTIFIED.

PROPERTY LINES, RIGHT OF WAY (ROW) LINES, AND EASEMENTS ARE BASED ON ALTA SURVEY PREPARED BY WESTWOOD SURVEYING AND ENGINEERING, P.C. 3. . WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR

- AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. 4. THE CONTRACTOR SHALL NOTIFY STATE UTILITY LOCATE SERVICE (DIG SAFELY NEW YORK 811) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
- 5. UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON ALTA SURVEY PREPARED BY WESTWOOD SURVEYING AND ENGINEERING, P.C., CONTRACTOR AND OWNER ARE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES ARE DETERMINED TO EXIST THAT ARE NOT SHOWN ON THE PLANS THE ENGINEER SHALL BE CONTACTED IMMEDIATELY. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND RELOCATE AS REQUIRED IN COORDINATION WITH UTILITY AND LANDOWNER.
- 6. THE CONTRACTOR SHALL NOTIFY AND COORDINATE ALL WORK WITH THE UTILITY COMPANIES.
- 7. UTILITY CROSSING REQUIREMENTS HAVE NOT BEEN COMPLETED FOR THE PROJECT. CONTRACTOR SHALL VERIFY CROSSING DESIGNS WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION 8. CONTRACTOR TO VERIFY EXISTING CONDITIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY
- DISCREPANCIES 9. ANY FACILITIES REMOVED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, LIGHTING, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS EXISTING.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES CAUSING RAINWATER TO POND. DEPENDING ON FIELD CONDITIONS, ADDITIONAL CULVERTS IN EXCESS OF THOSE ON THE PLANS MAY BE REQUIRED
- 11. IF LOCALIZED LOW POINTS ARE ENCOUNTERED DURING TOPSOIL STRIPPING, MASSAGE SURROUNDING AREA TO MAINTAIN POSITIVE DIRECTION OF DRAINAGE TO MINIMIZE PONDING OF STORMWATER DURING RAINFALL EVENTS.
- 12. ROAD MAINTENANCE IS EXPECTED OVER THE LIFE OF THE FACILITY. ROADS SHALL BE MAINTAINED BY THE PROJECT OWNER. MAINTENANCE THROUGH CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 13. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CLEAN THE LOCATION OF THE WORK AND ALL GROUND IN THE PROJECT AREA OCCUPIED BY
- THE CONTRACTOR DURING THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL RUBBISH, EXCESS MATERIALS, TEMPORARY STRUCTURES, AND EQUIPMENT, LEAVING THE LOCATION OF THE WORK CLEANED TO THE SATISFACTION OF THE OWNER AND ENGINEER. 14. HAUL ROUTES SHOWN ON THE PLANS ARE PROVIDED BY AGRICOLA WIND LLC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE SUITABILITY OF
- THIS ROUTE, INCLUDING EXISTING BRIDGE AND CULVERT STRUCTURES, FOR CONSTRUCTION TRAFFIC. 15. CONTRACTOR SHALL MINIMIZE DISTURBANCE DURING CULVERT REPLACEMENT ACTIVITIES AND REVIEW ENVIRONMENTAL REPORTS PRIOR TO WORK IN STREAM/WETLAND AREAS.
- 16. WHILE BUILDING THE ROADS AND EXCAVATING THE TURBINE FOUNDATIONS, EXCESS SOIL WILL RESULT. THE CONTRACTOR SHALL DISPOSE OF THIS EXCESS SOIL IN AN APPROVED MANNER. NO TOPSOIL WILL BE ALLOWED TO LEAVE THE PROPERTY FROM WHICH IT WAS DUG WITHOUT APPROVAL OF AGRICOLA WIND LLC, THE LANDOWNER, AND THE ENVIRONMENTAL MONITOR. EXCESS TOPSOIL SHALL BE DISTRIBUTED INTO A THIN LAYER ON LAND IMMEDIATELY ADJACENT TO WHERE THE TOPSOIL ORIGINATED. WHILE DOING SO THE CONTRACTOR SHALL AVOID CAUSING RIDGES OR MOUNDS THAT WOULD MAKE IT DIFFICULT FOR STORM WATER RUNOFF TO DRAIN. THE FINAL SURFACE OF THE DISTURBED TOPSOIL SHALL BE SMOOTH AND FOLLOW THE NATURAL CONTOUR OF THE LAND.
- 17. FINALIZE GRADING AROUND THE BASE OF TURBINES IN ACCORDANCE WITH DETAIL TS03-A/TS03-B.
- 18. GRADE ALL PROPOSED ROADS TO A MAXIMUM SLOPE OF 8%. IF 8% SLOPE CANNOT BE ACHIEVED, THE CONTRACTOR MAY UTILIZE ASSIST VEHICLES FOR THE PURPOSE OF DELIVERIES UP TO 12% AS PER VESTAS SPEC.
- 19. TEMPORARY INTERSECTION WIDENINGS SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION ACTIVITIES OR UPON NOTIFICATION TO THE CONTRACTOR BY THE ENGINEER, BE REMOVED AND RESTORED TO ITS ORIGINAL LINES AND GRADES AND STABILIZED/SEEDED IN ACCORDANCE WITH THE PROJECT SWPPP.
- 20. CRANE PATHS ARE SHOWN ON THE CONSTRUCTION PLANS. IF THE CONTRACTOR PROPOSES ALTERNATE CRANE PATHS, THEY SHALL MAKE SURE THAT ENVIRONMENTAL SENSITIVE AREAS ARE NOT DISTURBED. FINAL CRANE PATH ALIGNMENTS SHALL BE DETERMINED BY THE CONTRACTOR BASED UPON FIELD CONDITIONS WITHIN THE CONSTRUCTION EASEMENTS, AND THE PROJECT BOUNDARY. ALL PROPOSED CRANE PATH MODIFICATIONS MUST BE APPROVED BY AGRICOLA WIND LLC AND THE ENVIRONMENTAL MONITOR
- 21. TURBINE SETBACKS ARE NOT IDENTIFIED ON THE CONSTRUCTION PLANS. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT ALL TURBINE SETBACKS MEET PROJECT REOUIREMENTS 22. THE CONTRACTOR SHALL BE FAMILIAR WITH THE REPORTS AND SHALL REVIEW ALL RECOMMENDATIONS.
- 23. REFER TO ELECTRICAL PLANS FOR LOCATIONS, CONSTRUCTION DETAILS AND SPECIFICATIONS FOR THE UNDERGROUND/OVERHEAD POWER COLLECTION SYSTEM, CONTROL BUILDING, SUBSTATION, AND PERMANENT & TEMPORARY FIBER OPTIC LINES.
- 24. WIND TURBINE TOWER DOOR ORIENTATION SHALL BE CONFIRMED WITH THE OWNER PRIOR TO CONSTRUCTION.
- 25. ISOLATED GRADING FOR CRANE PATHS MAY BE REQUIRED. CONTRACTOR TO GRADE ACCORDING TO CRANE MANUFACTURER'S SPECIFICATIONS
- 26. NO IMPACTS TO THESE ENVIRONMENTAL SENSITIVE AREAS ARE ALLOWED EXCEPT IN THE LOCATIONS SHOWN ON THE PLANS.
- 27. CONTRACTOR SHALL PROVIDE STAKING WHERE APPROPRIATE TO ENSURE ALL CONSTRUCTION ACTIVITIES STAY WITHIN THE PROJECT BOUNDARY.
- 28. TIMBER MATTING REQUIRED WHEN CROSSING AGRICULTURAL LAND. 29. SENSITIVE AREAS WILL REQUIRE SILT FENCING TO BE INSTALLED ALONG THE BORDER WHERE THESE FEATURES EXIST WITHIN 100' OF ACCESS ROADS AND OTHER FACILITIES.
- 30. REFER TO EROSION CONTROL PLANS FOR EROSION AND SEDIMENTATION CONTROL CONTINUATION.
- 31. EROSION AND SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN THE FIELD DURING VARIOUS PHASES OF THE PROJECT
- 32. NO GROUND DISTURBANCE OR CONSTRUCTION RELATED ACTIVITIES WITHIN OCCUPIED WINTERING AND BREEDING HABITAT IDENTIFIED IN THE APPROVED NET CONSERVATION BENEIT PLAN SHALL BE CONDUCTED DURING THE RESTRICTED PERIODS IDENTIFIED IN 19 NYCRR 900-6.4(0). IF ACTIVITIES MUST OCCUR WITHIN THIS TIME WINDOW, THE OCCUPIED HABITAT AREAS PROPOSED FOR ACTIVE CONSTRUCTION SHALL BE ASSESSED WEEKLY BY THE ON-SITE ENVIRONMENTAL MONITOR OR BIOLOGIST.
- 33. CONTRACTOR SHALL REPAIR CRUSHED OR SEVERED DRAIN TILE IN ACCORDANCE WITH THE DRAIN TILE REPAIR DETAIL UT-41. THE ENVIRONMENTAL MONITOR SHALL COORDINATE WITH NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (NYSAGM) TO ENSURE COMPLIANCE WITH THE APPROVED DRAINAGE REMEDIATION PLAN.
- 34. A THIRD-PARTY ENVIRONMENTAL MONITOR SHALL BE HIRED TO OVERSEE CONSTRUCTION, RESTORATION, AND FOLLOW-UP MONITORING IN AGRICULTURAL AREAS. THE ENVIRONMENTAL MONITOR SHALL BE ON-SITE WHENEVER CONSTRUCTION OR RESTORATION WORK IS OCCURRING IN AGRICULTURAL LANDS AND SHALL COORDINATE WITH THE NYSAGM TO ENSURE THAT THE GOALS OF THE NYSAGM GUIDELINES ARE BEING MET TO THE FULLEST EXTENT PRACTICABLE.
- 35. ALL DISTURBED AREAS ARE TO BE RESTORED TO PRE-EXISTING OR BETTER CONDITIONS. THE CONTRACTOR IS TO ENSURE RESTORATION OF THE ENTIRE WORK SITE IS IN COMPLIANCE WITH THE ARTICLE VIII PERMIT AND NYSAGM GUIDELINES FOR WIND ENERGY PROJECTS.
- 36. CONSTRUCTION WORK SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 8:00 P.M. MONDAY THROUGH SATURDAY AND 8:00 A.M. TO 8:00 P.M. SUNDAYS AND NATIONAL HOLIDAYS. FOR CERTAIN CONSTRUCTION PHASES AND ACTIVITIES, ADDITIONAL WORK HOURS MAY BE NECESSARY AND SHALL BE NOTIFIED IN ACCORDANCE WITH THE ARTICLE VIII PERMIT. ACCESS IS RESTRICTED IN ENVIRONMENTALLY SENSITIVE AREAS IDENTIFIED ON THE PLANS BETWEEN THE PERIOD OF DECEMBER THROUGH MARCH. THE ENVIRONMENTAL MONITOR SHALL MONITOR ACTIVITIES WITHIN THE ENVIRONMENTALLY SENSITIVE AREA DURING APPROVED TIME FRAMES

ROAD DESIGN PARAMETERS

- 1. THE ROAD SECTION HAS BEEN DESIGNED TO ACCOMMODATE WIND TURBINE COMPONENT DELIVERY DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
- 2. ROAD MAINTENANCE CAN BE EXPECTED OVER THE LIFE OF THE PERMANENT FACILITY AND MAY INCLUDE BLADING AND REPLACEMENT OF AGGREGATE MATERIAI
- 3. CONTRACTOR SHALL CONFIRM ROAD DESIGN MEETS THE REQUIREMENTS OF THE TURBINE MANUFACTURER ACCESS ROAD MANUAL.
- STORM WATER DESIGN PARAMETERS
- 1. ANTICIPATED DRAINAGE CROSSINGS ARE SHOWN ON THE CONSTRUCTION PLANS BASED LARGELY ON OBSERVATION OF DRAINAGE CHANNELS/DRAINAGE EROSION FROM THE AERIAL IMAGERY, GIS STREAM LINEWORK AND EXISTING TOPOGRAPHY DATA AVAILABLE. ADDITIONAL CULVERTS/LOW WATER CROSSINGS MAY NEED TO BE INSTALLED IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED DUE TO THE CONSTRUCTION ACTIVITIES.
- 2. FOR FEDERAL ONLY STREAMS CULVERT SIZE TO BE DETERMINED IN COORDINATION WITH THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE). 3. FOR FEDERAL AND STATE STREAMS CULVERT SIZE TO BE DETERMINED IN COORDINATION WITH THE USACE AND IN ACCORDANCE WITH THE16 NYCRR SECTION 1100-2.3(3)(R)(6).
- 4. CULVERTS WITHIN THE ROWS HAVE BEEN SIZED BY WESTWOOD. INSTALLED CULVERTS SHALL BE SIZED TO MATCH THE DOWNSTREAM CULVERT SIZE WHERE AVAILABLE. WHERE THERE IS NO DOWNSTREAM CULVERT, COUNTY ROAD CULVERTS HAVE BEEN SIZED BASED ON A 10 YEAR STORM EVENT, AND STATE ROAD CULVERTS HAVE BEEN SIZED BY NYSDOT OR THE 10 YEAR STORM EVENT. IN-FIELD CULVERTS HAVE BEEN SIZED BASED UPON A 10 YEAR STORM EVENT. FOR NON-JURISDICTIONAL CROSSINGS. CULVERTS FOR JURISDICTIONAL CROSSINGS HAVE BEEN SIZED BASED ON STREAM TYPE DESIGNATED BY WESTWOOD AND USACOE GENERAL GUIDELINES FOR STREAM CROSSINGS REGIONAL CONDITION 1. THE MINIMUM TYPICAL CULVERT SIZE IS 18". IT IS EXPECTED THAT CULVERTS WILL BE OVERTOPPED DURING SOME STORMS AND MAINTENANCE WILL BE REQUIRED THROUGH THE LIFE OF THE PROJECT.
- ALL CULVERTS SHALL BE INSTALLED PER NEW YORK STATE DEPARTMENT OF TRANSPORTATION AND/OR CAYUGA COUNTY STANDARD SPECIFICATIONS. CULVERTS WITHIN THE NYSDOT ROW REQUIRE DOUBLE-WALLED HDPE PIPE WITH SMOOTH INTERIOR WALLS WITH FLARED END SECTIONS ON PERMANENT INSTALLATIONS IN ACCORDANCE WITH NYSDOT PERMITS. CULVERTS WITHIN THE NYSDOT ROW REQUIRE FLARED END SECTIONS IN ACCORDANCE WITH NYSDOT PERMITS. ALL TEMPORARY PORTIONS OF THE INSTALLED CULVERTS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- WHEN INSTALLING DRAINAGE CULVERTS THE CONTRACTOR SHALL USE JUDGMENT IN SETTING THE FLOW LINE ELEVATIONS AND CULVERT LONGITUDINAL SLOPE. TYPICALLY, THE FLOW LINE ELEVATIONS AND LONGITUDINAL SLOPE OF THE CULVERT SHOULD MATCH THE NATURAL GROUND ELEVATIONS AND SLOPE TO ENSURE POSITIVE DRAINAGE. CULVERTS SHALL BE SUMPED 2.5" BELOW THE EXISTING CHANNEL FLOW LINE. CULVERTS LARGER THAN 48" SHALL BE EMBEDDED 1 FOOT BELOW THE GRADE OF THE STREAM. MINIMUM COVER SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL CULVERTS SHOULD BE PLACED AT A MINIMUM 0.5% GRADE. CULVERTS PERCHED ABOVE THE GRADE OF THE STREAM ARE NOT ALLOWED. CULVERTS IN JURISDICTIONAL STREAMS REQUIRE 20% EMBEDMENT.
- 7. LOW WATER CROSSINGS HAVE BEEN DESIGNED TO ALLOW NATURAL DRAINAGE TO OCCUR POST CONSTRUCTION OF THE ACCESS ROADS. IT IS ANTICIPATED THAT DURING "HEAVY" RAIN STORM EVENTS AND DURING THE FREEZE/THAW CYCLE SOME ACCESS ROADS MAY BE DIFFICULT TO TRAVERSE DUE TO THE SEASONAL ENVIRONMENTAL CONDITIONS. MAINTENANCE OF THE ACCESS ROADS MAY BE REQUIRED DUE TO NATURAL DRAINAGE

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY EROSION CONTROL MEASURES IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT. THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED BY WESTWOOD. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SWPPP AND THE NEW YORK STATE GENERAL PERMIT GP-0-25-001 REFER TO THE SWPPP FOR EROSION CONTROL AND RESTORATION SPECIFICATIONS, SEDIMENT AND EROSION CONTROL PROCEDURES, LOCATIONS OF BMPs, DETAILS, AND INSPECTION INFORMATION
- 2. NON-STORM WATER POLLUTANTS SUCH AS CONCRETE, FLY ASH, LIME, ASPHALT MATERIALS, OILS, AND OTHER MATERIALS SHALL BE CONTAINED AND NOT ALLOWED TO BE DISCHARGED FROM THE PROJECT AREA.

TREE CLEARING:

- TREES WITHIN OR ADJACENT WETLANDS ARE TO BE HAND CUT. WETLANDS ARE NOT TO BE ENCROACHED WITH MACHINERY AND WETLANDS ARE
- TO BE PROTECTED.
- TREE CLEARING PERMIT IS TO BE OBTAINED BY THE OWNER.
- 6. ALL PERMITS FEES ARE TO BE PAID BY THE OWNER.

EXECUTION

- 1. CLEARING AND GRUBBING TO BE SAVED.
- 2. TOPSOIL STRIPPING
- DISTURBANCE AREAS
- 3. EMBANKMENT CONSTRUCTION

TABLE 1: MATERIAL TESTING SCHEDULE

	Location	Required Test	ASTM Standard	Frequency	Specified Criteria
	Access Roads	Standard Proctor	ASTM D-698	1 per soil type as determined by independent testing agency	N/A
	Spur Roads Met Tower Roads	Nuclear Density	Nuclear DensityASTM D-6938Roads: 1 test per 2,500 LF Areas: 1 test per 5,000 SF		95% of Standard Proctor Maximum Dry Density +/- 2% of Optimum Moisture Content
Subgrade	Public Road Improvements Substation Area O&M Area	Proof Roll	N/A	Entire Length / Area	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loader truck. See testing requirements for additional information.
(Non-cement Stabilized)	Temporary Roads Temporary Intersection Improvements Laydown Yard Batch Plant Turbine Pads (Staging Areas)	Proof Roll N/A		Entire Length / Area	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loade truck. See testing requirements for additional information.
	Crane Walks ¹ Crane Pads ¹	EXCLUDED ¹	EXCLUDED ¹	EXCLUDED ¹	EXCLUDED ¹
	Source	Standard Proctor	ASTM D-698		NI/A
	(On -Site Borrow) (Imported Fill)	Moisture Content	ASTM D-2216	1 per soil type/source as determined by independent testing agency	
	(Common Excavation)	Atterberg Limits	ASTM D-4318		LL < 45 and PI < 20
General Fill (for Mass Grading)	Embankments Turbine Pads (Staging Areas) Intersection Improvements Access Roads Spur Roads	Nuclear Density	ASTM D-6938	1 test per 5,000 SF per lift 1 test per 30,000 SF per lift (Turbine Pads only)	95% of Standard Proctor Maximum Dry Density +/- 2% of Optimum Moisture Content
	Met Tower Roads Public Road Improvements Substation Area O&M Area Laydown/Batch Plant	Proof Roll	N/A	Entire Length / Area (Final Surface)	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loader truck. See earthwork specifications for additional information.
		Grain Size Analysis	ASTM C-136		See Table 2
		Standard Proctor	ASTM D-698		N/A
	(Pre-Placement)	Moisture Content	ASTM D-2216	Sample from site every 5,000CY.	
		Atterberg Limits	ASTM D-4318		See Table 2
		Los Angeles Abrasion	ASTM C-131		See Table 2
Aggregate Material	Access Roads Spur Roads Met Tower Roads Public Road Improvements Substation (Base Aggregate Only) O&M Area Aggregate Rings Intersection Improvements Laydown/Batch Plant	Proof Roll	N/A	Entire Length / Area	No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loader truck. See earthwork specifications for additional information.

PRELIMINARY CONTRACTOR NOTES:

- 1. THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR.
- DETERMINE WHETHER STOP WORK AUTHORITY WILL BE EXERCISED, OR WHETHER TO DIRECT THE APPLICANT TO TAKE ACTION TO FURTHER MINIMIZE IMPACTS TO STREAMS AND WETLANDS.
- SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS:
- B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS;
- D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS.
- E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.
- DRAWINGS.
- EXISTING TREES TO BE SAVED
- CONTRACTOR. BOUNDARIES SHALL BE RE-MARKED AS NECESSARY FOLLOWING CLEARING.

- CAYUGA COUNTY POSTING STANDARDS FOR FURTHER DETAIL ON THE SIGNAGE

1 TREES WILL BE FELLED AND CUT TO APPROPRIATE LENGTHS WITHIN THE LIMITS OF DISTURBANCE IN PROXIMITY TO THE PROPOSED LOG STORAGE AREA. FELLED TIMBER WILL BE STACKED IN PLACE UNTIL SUFFICIENT SPACE HAS BEEN CLEARED TO ESTABLISH IDENTIFIED LOG STORAGE AREAS. APPROXIMATE LOG STORAGE AREAS WILL BE FINALIZED BASED ON FIELD CONDITIONS.

ONCE PERMIT HAS BEEN OBTAINED THE CONTRACTOR MAY CUT TREES WITHIN WETLANDS MECHANICALLY, WITH THE INSTALLATION OF TIMBER MATS, AND REMOVE TREE STUBS. WETLAND ENCROACHMENT WILL BE MINIMIZED TO THE EXTENT PRACTICABLE WHEN REMOVING TREE STUMPS. CONTRACTOR IS TO PROPERLY REMOVE AND DISPOSE OF THE TIMBER. COORDINATE WITH THE DEVELOPER.

AREAS DENOTED AS "PROPOSED BLADE SWING AREA" NEED TO BE FREE OF OBJECTS. WHICH INCLUDES BUT IS NOT LIMITED TO TREES AND SIGNS. ADDITIONAL AGGREGATE OR GRUBBING IS NOT NEEDED IN THESE AREAS

A. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES

A. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AND FOUNDATION AREAS THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED

B. ANY TOPSOIL, THAT HAS BEEN STRIPPED, SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS. ALL TOPSOIL SHALL BE REDISTRIBUTED TO THE LAND OWNER'S PROPERTY OF WHERE IT ORIGINATED FROM AND NOT IMPEDE NATURAL DRAINAGE FLOW.

A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FOOT HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED FROM THE O+M SITE/ACCESS ROAD/TURBINE EXCAVATION (SEE GEOTECHNICAL REPORT FOR RESTRICTIONS), OR ANY SUITABLE, APPROVED SOIL OBTAINED ONSITE/OFFSITE BY CONTRACTOR, AS DIRECTED OR APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" B. SIDE SLOPES GREATER THAN 3:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.

INSPECTIONS AND TESTING 1. SUBGRADE

A. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY

- B. FOR PASSING CRITERIA, REFER TO GEOTECH INFORMATION. C. TESTING AND INSPECTION RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE ACCESSIBLE TO THE CIVIL EOR AT THEIR REQUEST C.1. THE ENGINEER MAY REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK. D. REFER TO TABLE 1 FOR PROJECT TESTING SPECIFICATIONS
- E. PROOF ROLLING: PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE E.1. UNSTABILIZED SUBGRADE AND AGGREGATE BASE SHALL BE PROOF ROLLED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 20 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING
- F. IF THE PROOF ROLL REQUIREMENTS CANNOT BE ACHIEVED, THE FOLLOWING ALTERNATES MAY BE IMPLEMENTED: F.1. SCARIFY, DRY, AND RECOMPACT SUBGRADE AND PERFORM ADDITIONAL PROOFROLL AND DCP.

F.2. REMOVE UNSUITABLE MATERIAL AND REPLACE WITH CRUSHED AGGREGATE BASE. 2. AGGREGATE BASE: IF THE PROOF ROLL REQUIREMENTS CANNOT BE ACHIEVED, THE FOLLOWING ALTERNATES MAY BE IMPLEMENTED: A. ADD ADDITIONAL 2 INCHES OF AGGREGATE.

TABLE 2: NYSDOT TYPE 2 SUBB	ASE COURSE AGGREGATE	Γ	TABLE 4: IMPORTED STRUCTURAL FILL			
SIEVE SIZE	PERCENT PASSING		SIEVE SIZE	PERCENT PASSING		
2"	100		3"	100		
3⁄4"	50-90	_	#200	10-100		
3⁄8"	70-35	L		10 100		
1/4"	25-60	*	MPORTED STRUCTURAL	FILL SHOULD CONTAIN NO PARTICL		
#40	5-40	3	INCHES AND LESS THAN	10 PERCENT, BY WEIGHT, OF MATER		
#200	0-10	A	NO. 200 MESH SIEVE.			
LIQUID LIMIT (MAX) = 45		В	RICKS. GLASS AND PYRITI	C SHALE ROCK.		
PLASTICITY INDEX = 0-15		*:	**ADDITIONAL LABORATO	DRY TESTING WILL BE REQUIRED TO		
L.A ABRASION (% MAX) = 40%		ON-SITE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL ON S				
		TI	IS NOT EXPECTED TO MI	EET THE CRITERIA FOR STRUCTURAL		

PRODUCTS

1. ROAD AGGREGATE SHALL BE CRUSHED AGGREGATE MEETING NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION (DATE: JULY 9, 2020) PROVIDED IN TABLE 7.1.1, OR AN APPROVED EQUAL.

2. ROAD SHOULDERS, AND CRANE PATHS SHALL CONSIST OF COMPACTED NATIVE SOILS. 3. CULVERTS: SEE PLAN FOR CULVERT LOCATIONS. ACCESS ROAD CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE NEW YORK STATE DEPARTMENT OF

TRANSPORTATION AND/OR THE COUNTY. ALL CULVERTS SHALL BE MANUFACTURED OF CORRUGATED METAL PIPES. 4. GEOTEXTILE FABRIC SHALL BE MIRAFI HP570 OR APPROVED EQUAL IF REQUIRED.

5. STRUCTURAL FILL: CLEAN SOIL THAT IS FREE OF SIGNIFICANT ORGANIC OR DELETERIOUS MATTER, OR IMPORTED SOIL AS APPROVED BY THE ENGINEER.

PRELIMINARY GENERAL ENVIRONMENTAL RESTRICTIONS:

OPERATION OF THE FACILITY.

STABILIZED IN ACCORDANCE WITH THE SWPPP

ALL EQUIPMENT ACCESS, STORAGE OF EQUIPMENT AND MATERIALS, AND OTHER CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE ACCESS ROADS, LAYDOWN AREAS, AND THE COLLECTION LINE AND TRANSMISSION LINE ROUTES AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS. EQUIPMENT WILL UTILIZE THE INTERSECTION OF ACCESS ROADS AND EXISTING ROADS FOR TURNING. WORK AREAS, SUCH AS TURBINE SITES AND LAYDOWN AREAS, WILL ALSO PROVIDE AREAS FOR EQUIPMENT TURNING AND PARKING, IN ADDITION TO DESIGNATED TURNING LOCATIONS.

2. THE BOUNDARIES OF ALL AREAS OF TREES TO BE CLEARED AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR. ANY DISRUPTION TO ORES REGULATED WETLANDS WILL BE MINIMIZED. THE NEW YORK OFFICE OF RENEWABLE ENERGY SITING'S (ORES) FIELD REPRESENTATIVE WILL NOTIFY THE ORES REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE OF ANY ACTIVITIES THAT VIOLATE OR MAY VIOLATE EITHER THE TERMS OF THE ARTICLE 10 CERTIFICATE OR THE ENVIRONMENTAL CONSERVATION LAW. ORES STAFFS' FIELD REPRESENTATIVES WILL WORK COOPERATIVELY TO

RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 300 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS, WETLANDS,

A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;

C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS;

F. REFUELING OR CHEMICAL STORAGE CAN NOT OCCUR WITHIN 300 FEET OF WETLANDS OR STREAMS.

"AVOID, DO NOT CROSS" INDICATES THAT AN AREA DOES NOT HAVE A DESIGNATED ACCESS ROUTE AND THAT EQUIPMENT IS RESTRICTED FROM CROSSING OR OPERATING IN THAT AREA. THIS DESIGNATION IS APPLIED TO ALL WETLANDS, STREAMS, AND ASSOCIATED BUFFERS THAT DO NOT HAVE APPROVED EQUIPMENT ACCESS, AS DEPICTED ON THE WETLAND IMPACT DRAWINGS. THESE RESTRICTIONS SHALL ALSO BE INDICATED ON THE FINAL CONSTRUCTION

THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND

THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO TREE CLEARING BY THE TREE CLEARING

CONCRETE WASHOUT LOCATIONS TO BE INDENTIFIED BY THE CONTRACTOR AS FOLLOWS:

WASTE CONCRETE OR CONCRETE FROM THE TRUCK CLEAN OUT ACTIVITY AND/OR ANY WASH WATER FORM TRUCKS. EQUIPMENT OR TOOLS IF DONE ON SITE. MUST BE CONTAINED IN A MANNER THAT WILL PREVENT IT FROM ESCAPING INTO THE STREAMBANK OR INTO THE STREAM CHANNEL AND ENTERING THE STREAM, OR ENTERING WETLAND, OR ANY OTHER WATERBODY. IF A DISCHARGE OCCURS, ORES REGION 9 SUPERVISOR OF NATURAL RESOURCES SHALL BE CONTACTED WITHIN 2 HOURS. DISPOSAL OF WASTE CONCRETE OR WASH WATER MUST OCCUR GREATER THAN 100 FEET FROM ANY WATERBODY. 911 ADDRESS SIGNAGE WILL BE POSTED AT THE ENTRANCE OF EVERY ROAD AND NEAR EACH TURBINE. GENERAL LOCATION FOR THE SIGNS ARE SHOWN ON THE PLANS. ADDRESS NUMBERS AND LETTERS SHALL BE NO LESS THAN 4 INCHES IN HEIGHT. THE SIGN POST SHALL BE 3 FEET FROM THE EDGE OF THE BRIM OF THE ROAD TO INSURE IT IS NOT STRUCK BY SNOWPLOWS OR BURIED IN DEPOSITS OF SNOW DURING THE WINTER. POST TOPS SHALL BE FIVE FEET ABOVE GRADE AND BE INSTALLED ON THE FAR SIDE OF THE DRIVE AS APPROACHED FROM THE DIRECTION OF TRAVEL ON THE SIDE OF THE ROADWAY. REVIEW

SEEDS AND OTHER VIABLE PLANT PARTS CANNOT ESCAPE IN RUNOFF OR THROUGH OTHER MEANS.

GRADING MORE THAN 6 INCHES DEEP, GRUBBING OR STUMP REMOVAL, AND TRENCHING WIDER THAN 3 FEET.

CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE.

7. NO REFILLING OR CHEMICAL STORAGE WITHIN 300 FT OF WETLANDS OR STREAMS.

PRELIMINARY SPECIFIC STREAM CROSSING RESTRICTIONS 2. A BUFFER ZONE OF 300 FEET, REFERRED TO AS "RESTRICTED ACTIVITIES AREA" OR SIMILAR ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, SHALL BE ESTABLISHED WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS. WETLANDS AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE:NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATERBODY; NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA; HERBICIDE RESTRICTIONS WITHIN 300 FEET OF A STREAM OR WETLAND(OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS); NO DEGRADATION OF STREAM BANKS; NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA; NO STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL; AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER. EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS SHALL BE DESIGNATED "NO EQUIPMENT ACCESS" OR SIMILAR ON THE FINAL FACILITY CONSTRUCTION DRAWINGS.

ABLE 4: IMPORTED STRUCTURAL FILL					
SIEVE SIZE PERCENT PASSING					
3" 100					
#200	10-100				

DRTED STRUCTURAL FILL SHOULD CONTAIN NO PARTICLES LARGER THAN HES AND LESS THAN 10 PERCENT, BY WEIGHT, OF MATERIAL FINER THAN 200 MESH SIEVE

IMPORTED MATERIALS SHALL BE FREE OF RECYCLED CONCRETE, ASPHALT, S, GLASS AND PYRITIC SHALE ROCK. DITIONAL LABORATORY TESTING WILL BE REQUIRED TO DETERMINE IF THE TE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL ON SITE, HOWEVER

FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL BY IMPLEMENTING APPROPRIATE CONTROL MEASURES. THESE MEASURES INCLUDE THE APPLICATION OF MULCH, WATER, OR STONE ON ACCESS ROADS, EXPOSED SOILS, STOCKPILED SOILS, OR UNPAVED PUBLIC ROADS WHEN DRY AND WINDY CONDITIONS EXIST. A WATERING VEHICLE WILL BE AVAILABLE ON AN AS-NEEDED BASIS. REFER TO DUST CONTROL PLAN PREPARED BY WESTWOOD.

WITHIN 100 FEET OF STATE REGULATED WETLANDS AND 50 FEET OF OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION AND

STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLAND BOUNDARIES. 6. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE, IN ACCORDANCE WITH THE SWPPP. EROSION

8. THE SEEDING MIXTURE WILL BE IN ACCORDANCE TO THE BLUEBOOK AND THE DISCRETION OF THE ENVIRONMENTAL MONITOR.

9. THE BOP CONTRACTOR WILL LOCATE AND DISTRIBUTE EXCESS EXCAVATION MATERIAL IN NON-AGRICULTURE UPLAND AREAS (I.E., OUTSIDE OF WETLANDS, STREAMS, AND AGRICULTURAL FIELDS). WHERE PRACTICAL, SUCH MATERIAL WILL BE USED AS ROAD FILL OR BACKFILL AROUND STRUCTURES. EROSION CONTROL PRACTICES WILL BE INSTALLED, AND EXPOSED SOILS

10. CONSTRUCTION EQUIPMENT SANITATION: THE INTRODUCTION OF NON-NATIVE INVASIVE PLANT SPECIES WILL BE CONTROLLED BY ASSURING THAT ALL CONSTRUCTION EQUIPMENT IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES WILL BE CLEANED PRIOR TO MOVING TO ANOTHER SITE. THE INTENT IS THAT EQUIPMENT SHOULD ARRIVE AT THE SITE CLEAN AND LEAVE THE SITE CLEAN. EQUIPMENT/CLOTHING CLEANING STATIONS WILL BE ESTABLISHED TO ENSURE THAT INVASIVE SPECIES

11. NO GRADING OR SIGNIFICANT GROUND DISTURBANCE IS ALLOWED WITHIN ENVIRONMENTALLY SENSITIVE AREAS. SIGNIFICANT GROUND DISTURBANCE IS DEFINED AS EXCAVATION OR

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Agricola Wind LLC

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Agricola Wind Project

Cayuga County, New York

General Notes - ²

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COMPLIANCE GENERAL NOTES

- THE CONTRACTOR SHALL CONSTRUCT THE FACILITY CONSISTENT WITH THE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (AGM) GUIDELINES FOR AGRICULTURAL MITIGATION FOR WIND POWER PROJECTS, TO THE MAXIMUM EXTENT PRACTICABLE.
 EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS ARE DESIGNATED "NO
- EQUIPMENT ACCESS" ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, AND MUST BE MARKED IN THE FIELD. THE USE OF MOTORIZED EQUIPMENT IS PROHIBITED IN THESE AREAS. 3. A BUFFER ZONE OF 300 FEET IS REFERRED TO AS "RESTRICTED ACTIVITIES AREA" ON THE CONSTRUCTION DRAWINGS AND ROW
- CLEARING PLANS WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE: NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATER BODY; NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA; HERBICIDE RESTRICTIONS WITHIN 100 FEET OF A STREAM OR WETLAND (OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS); NO DEGRADATION OF STREAM BANKS; NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA; NO STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL; AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER. NO REFILLING OR CHEMICAL STORAGE WITHIN 300 FEET.
- 4. TREE AND VEGETATION CLEARING SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR FACILITY CONSTRUCTION. SURROUNDING TREES AND VEGETATION WILL NOT BE CUT DOWN ON ANY PROPERTY SOLELY TO REDUCE TURBULENCE OR INCREASE WIND FLOW TO THE FACILITY. TO REDUCE MORTALITY TO NESTING/ROOSTING BIRDS AND BATS, ALL TREE CLEARING ACTIVITIES (EXCEPT FOR HAZARD TREE REMOVAL) SHALL BE CONDUCTED BETWEEN NOVEMBER 1 AND APRIL 1 AND DOES NOT INCLUDE TREES LESS THAN OR EQUAL TO 3 INCHES IN DIAMETER AT BREAST HEIGHT (DBH).
- 5. ALL EQUIPMENT ACCESS, STORAGE OF EQUIPMENT AND MATERIALS, AND OTHER CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE LIMITS OF DISTURBANCE AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS.
- 6. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL BY IMPLEMENTING APPROPRIATE CONTROL MEASURES. THESE MEASURES INCLUDE THE APPLICATION OF MULCH, WATER, OR STONE ON EXPOSED SOILS OR UNPAVED PUBLIC ROADS WHEN DRY AND WINDY CONDITIONS EXIST. A WATERING VEHICLE WILL BE AVAILABLE ON AN AS-NEEDED BASIS. REFER TO DUST CONTROL PLAN BY AGRICOLA WIND LLC.
- 7. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE, IN ACCORDANCE WITH THE SWPPP. EROSION CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE OR VEHICULAR TRAFFIC.
- 8. WOOD CHIP DEPTH SHALL NOT BE GREATER THAN THREE (3) INCHES. WOOD CHIPS SHALL NOT BE STORED OR DISPOSED OF IN WETLANDS, WITHIN STREAM BANKS, DELINEATED FLOODWAYS, OR ACTIVE AGRICULTURAL FIELDS.
- 9. AREAS DENOTED AS "PROPOSED BLADE SWING AREA" NEED TO BE FREE OF OBJECTS. WHICH INCLUDES BUT IS NOT LIMITED TO TREES AND SIGNS. ADDITIONAL AGGREGATE OR GRUBBING IS NOT NEEDED IN THESE AREAS

THREATENED AND ENDANGERED SPECIES

- 1. EXCLUDING BALD EAGLES (HALIAEETUS LEUCOCEPHALUS), IF AT ANY TIME AN ACTIVE NEST OF ANY FEDERALLY, OR STATE, LISTED THREATENED OR ENDANGERED (TE) BIRD SPECIES IS DISCOVERED WITHIN AN ACTIVE CLEARING SITE, THE REGIONAL NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) NATURAL RESOURCE SUPERVISOR (607-622-8273) WILL BE NOTIFIED WITHIN FORTY-EIGHT (48) HOURS OF DISCOVERY, AND THE NEST SITE WILL BE MARKED. AN AREA FIVE HUNDRED (500) FEET IN RADIUS AROUND THE NEST WILL BE AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION AT THAT SITE IS GRANTED BY THE REGIONAL ORES NATURAL RESOURCE SUPERVISOR.
- 2. IF AT ANY TIME A BALD EAGLE NEST OR COMMUNAL ROOST (DEFINED AS A CLOSE CLUSTER OF TREES WITH 4 OR MORE EAGLES OBSERVED PERCHED) IS LOCATED, THE REGIONAL ORES NATURAL RESOURCE SUPERVISOR WILL BE NOTIFIED WITHIN FORTY-EIGHT (48) HOURS OF DISCOVERY, AND PRIOR TO ANY DISTURBANCE OF THE NEST OR IMMEDIATE AREA. AN AREA OF AT LEAST 0.25 MILES (1,320 FEET) IF THERE IS NOT VISUAL BUFFER OR IF THERE IS A VISUAL BUFFER AN AREA OF AT LEAST SIX HUNDRED SIXTY (660) FEET IN RADIUS FROM THE NEST TREE OR COMMUNAL ROOST WILL BE POSTED AND AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION WITHIN THE BUFFER IS GRANTED BY THE REGIONAL ORES NATURAL RESOURCES SUPERVISOR. THE NEST TREE OR COMMUNAL ROOST WILL NOT BE APPROACHED UNDER ANY CIRCUMSTANCES UNLESS AUTHORIZED BY THE REGIONAL ORES NATURAL RESOURCE SUPERVISOR.
- 3. REPORT ALL OCCURRENCES OF TE AVIAN SPECIES TO THE ENVIRONMENTAL MONITOR. IF AN AVIATION SPECIES IS OBSERVED DEMONSTRATING BREEDING BEHAVIOR IT SHOULD BE REPORTED TO THE NATURAL RESOURCES SUPERVISOR WITHIN TWENTY-FOUR (24) HOURS.
- 4. IF ANY DEAD, INJURED OR DAMAGED STATE-LISTED TE SPECIES, OR THEIR PARTS, EGGS, OR NESTS ARE DISCOVERED WITHIN THE PROJECT AREA THE REGIONAL DEC REGION 7 NATURAL RESOURCE SUPERVISOR AND UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) (607-753-9334) MUST BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS TO ARRANGE FOR RECOVERY AND TRANSFER OF THE SPECIMEN(S).
- 5. LEAVE ALL KNOWN AND DOCUMENTED MATERNITY ROOST TREES OF LISTED BAT SPECIES AND ANY TREES WITHIN A 150-FOOT RADIUS OF DOCUMENTED SUMMER OCCURRENCE.
- 6. IF ANY BAT IS OBSERVED FLYING FROM A TREE OR A TREE THAT HAS BEEN CUT, TREE CLEARING ACTIVITIES WITHIN 150-FEET OF THE TREE SHALL BE SUSPENDED AND THE ORES WILDLIFE STAFF SHALL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS. A STOP WORK ORDER SHALL IMMEDIATELY BE ISSUED AND THE ORES STAFF CONSULTED BEFORE RESUMPTION OF WORK.

WETLANDS AND STREAMS, VEGETATION AND INVASIVE SPECIES

- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
- 2. ALL CONSTRUCTION ACTIVITY, INCLUDING CLEARING OF VEGETATION, IS TO TAKE PLACE WITHIN THE PROJECT SITE AS DEPICTED ON PROJECT PLANS. NO CONSTRUCTION ACTIVITY IS TO TAKE PLACE WITHIN AREAS TO BE LEFT IN A NATURAL CONDITION. STAKING AND/OR FLAGGING CONSTRUCTION LIMITS SHALL OCCUR PRIOR TO ANY SITE DISTURBANCE.
- 3. ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY CONTAINED MORE THAN 300 FEET LANDWARD OF THE REGULATED WETLAND OR WATER BODY AT THE END OF EACH WORK DAY. THIS WILL SERVE TO AVOID THE INADVERTENT LEAKAGE OF DELETERIOUS SUBSTANCES INTO THE REGULATED AREA.
- 4. FUEL OR OTHER CHEMICAL STORAGE TANKS SHALL BE CONTAINED AND LOCATED AT ALL TIMES IN AN AREA MORE THAN 300 FEET LANDWARD OF ANY REGULATED WETLAND OR WATER BODY. IF THE ABOVE REQUIREMENT CANNOT BE MET, THEN THE STORAGE AREAS MUST BE DESIGNED TO COMPLETELY CONTAIN ANY AND ALL POTENTIAL LEAKAGE. SUCH A CONTAINMENT SYSTEM MUST BE APPROVED BY ORES STAFF IN WRITING PRIOR TO EQUIPMENT, MACHINERY OR TANK STORAGE.
- 5. ALL MOBILE EQUIPMENT, EXCLUDING DEWATERING PUMPS, MUST BE FUELED IN A LOCATION AT LEAST 300 FEET FROM THE TOP OF STREAM BANK, WETLAND, OR OTHER WATER BODY. DEWATERING PUMPS OPERATED CLOSER THAN 100 FEET FROM THE STREAM BANK, WETLAND, OR WATER BODY, MUST BE ON AN IMPERVIOUS SURFACE AND ABSORBENTS CAPABLE OF CONTAINING ANY LEAKAGE OF PETROLEUM PRODUCTS.
- 6. SPILLAGE OF FUELS, WASTE OILS, OTHER PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS SHALL BE REPORTED TO THE DEC' SPILL HOTLINE (1-800-457-7362) WITHIN TWO HOURS ACCORDING TO THE ORES SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS TECHNICAL FIELD GUIDANCE.
- 7. ALL EQUIPMENT USED WITHIN THE BED OR BANKS OF STREAMS, OR IN WETLANDS AND ADJACENT AREAS, MUST BE INSPECTED DAILY FOR LEAKS OF PETROLEUM, OTHER FLUIDS, OR CONTAMINANTS AND MAY ONLY ENTER A STREAM CHANNEL IF FOUND TO BE FREE OF ANY LEAKAGE. A SPILL KIT MUST BE ON SITE AND ANY LEAKS MUST BE STOPPED AND CLEANED UP IMMEDIATELY.
- 8. VISIBLY TURBID DISCHARGES FROM LAND CLEARING, SHALL NOT ENTER ANY SURFACE WATER BODY. ALL NECESSARY MEASURES SHALL BE IMPLEMENTED TO PREVENT ANY VISIBLE INCREASE IN TURBIDITY OR SEDIMENTATION DOWNSTREAM OF THE WORK SITE, INCLUDING BUT NOT LIMITED TO THE USE OF:
- 8.1. APPROPRIATELY MAINTAINED UPLAND SETTLING BASINS;
- 8.2. CRUSHED STONE, SAND, OR SILT SCREENING (MAXIMUM OPENING SIZE OF U.S. SIEVE NUMBER 20) TO FILTER TURBID WATERS;
 8.3. SILT-BAGS OR SIMILAR PRE-CONSTRUCTED STRUCTURE DESIGNED TO REMOVE SILT AND SEDIMENT PARTICLES BEFORE THEY ARE DISCHARGED, OR;
- 8.4. GRASSY UPLAND AREAS AT A SUFFICIENT DISTANCE FROM THE RECEIVING WATER BODY TO PREVENT A VISUALLY DISCERNIBLE TURBID DISCHARGE TO THE RECEIVING WATER.
- 9. AT LOCATIONS WHERE TEMPORARY WETLAND CROSSINGS ARE NECESSARY IMPACTS WILL BE AVOIDED THROUGH THE USE OF TIMBER MATS.
- 10. ALL DISTURBED SOILS WITHIN REGULATED FRESHWATER WETLANDS AND THE ASSOCIATED ADJACENT AREAS MUST BE SEEDED WITH A NATIVE SEED MIX OR CROPS CONSISTENT WITH EXISTING AGRICULTURAL USES. MULCH SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. ADDITIONAL SEEDING SHALL BE COMPLETED AS NECESSARY TO ACHIEVE AN 80% VEGETATIVE COVER ACROSS ALL DISTURBED AREAS.
- 11. ANY DEBRIS OR EXCESS MATERIAL FROM CONSTRUCTION OF THE PROJECT SHALL BE COMPLETELY REMOVED FROM WETLANDS OR ADJACENT AREAS (UPLAND) AND RELOCATED TO A FACILITY DULY AUTHORIZED TO RECEIVE SUCH MATERIAL.
- 12. CLEARED VEGETATION AND SLASH FROM WETLANDS AND ADJACENT AREAS WILL NOT BE BURNED OR BURIED WITHIN THE WETLAND OR ADJACENT AREA. THE VEGETATION MUST BE DISPOSED OF OUTSIDE OF THE WETLAND AND ADJACENT AREA, BUT SLASH THAT IS CUT MAY BE LEFT IN PLACE (DROP AND LOP OR PILED IN DRY OR SEASONALLY SATURATED PORTIONS OF FRESHWATER WETLANDS AND 100-FOOT ADJACENT AREAS TO CREATE WILDLIFE BRUSH PILES).
- 13. TO CONTROL THE SPREAD OF INVASIVE INSECTS, THE CONTRACTOR WILL:
- 13.1. ENSURE THAT ALL CONSTRUCTION EQUIPMENT (INCLUDING TIMBER MATS) IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES ARE CLEANED PRIOR TO MOVING TO ANOTHER SITE.
 13.2. COORDINATE FOR SALE AND USE OF THE MERCHANTABLE TIMBER; AND PROVIDE UNMERCHANTABLE TIMBER AS FIREWOOD TO ADJACENT LANDOWNERS OR THE GENERAL PUBLIC PURSUANT TO THE ORES' FIREWOOD RESTRICTIONS TO PROTECT FORESTS
- FROM INVASIVE SPECIES FOUND IN 6 NYCRR PART 192.5;
 13.3. MAKE SURE CREWS ARE TRAINED TO IDENTIFY THE ASIAN LONGHORNED BEETLE AND THE EMERALD ASH BORER AND ANY OTHER INSECTS THAT THE ORES IDENTIFIES AS A POTENTIAL PROBLEM. IF THESE INSPECTS ARE ROUND, THEY MUST BE REPORTED TO THE ORES REGIONAL FORESTER, AND
- 13.4. COMPLY WITH SITE-SPECIFIC PLANS FOR MANAGEMENT OF JAPANESE KNOTWEED AND SPECIES AS DESCRIBED IN THE INVASIVE SPECIES CONTROL PLAN (ISCP).14. IF A ONE-TIME CROSSING OF A STREAM OCCURS AS PART OF AN INSTALLATION OF A TEMPORARY BRIDGE AND A TIRE MAT IS USED,
- THE FOLLOWING RESTRICTIONS APPLY:
 14.1. THE MAT MUST FOLLOW THE CONTOUR OF THE STREAMBED AND ALLOW FOR A LOW FLOW CHANNEL AND NOT CHANGE THE FLOW PATH OF THE STREAM.
- 14.2. THE MAT SHALL BE REMOVED IMMEDIATELY AFTER THE CROSSING OF THE STREAM OCCURS.
- 15. IF ANY TREES AND SHRUBS GROWING WITHIN 50 FEET OF STREAMS NEED TO BE CUT IN THE PROCESS OF CONSTRUCTING OVERHEAD POWER LINE CROSSINGS, THEY SHALL BE CUT OFF WITH AT LEAST TWO FEET OF THE STUMP REMAINING. STUMPS AND ROOT SYSTEMS

SHALL NOT BE DAMAGED TO FACILITATE STUMP SPROUTING. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK. ALL TREES AND SHRUBS CUT WITHIN THE 50 FOOT BUFFER AREA SHALL BE LEFT ON THE GROUND.

- 16. CLEARING OF NATURAL VEGETATION ALONG STREAMS AND WITHIN WETLANDS SHALL BE LIMITED TO THAT MATERIAL WHICH POSES A HAZARD OR HINDRANCE TO THE CONSTRUCTION ACTIVITY. SNAGS WHICH PROVIDE SHELTER IN STREAMS FOR FISH SHALL NOT BE DISTURBED UNLESS THEY CAUSE SERIOUS OBSTRUCTIONS, SCOURING OR EROSION. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK.
- 17. WITHIN 100 FEET OF STATE REGULATED WETLANDS AND 50 FEET OF OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION AND OPERATION OF THE FACILITY.
- 18. STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLAND BOUNDARIES.
- 19. ANY DISRUPTION TO NYS REGULATED WETLANDS WILL BE MINIMIZED.
- 20. RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 300 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS, WETLANDS, SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS:
- A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS;
- C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS;
- D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS.
- E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.

CLEARING METHODS

- TYPE I CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ALL WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES.)
- 2. TYPE II CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ANY WOODY PLANTS SPECIES WHICH HAVE THE POTENTIAL TO VIOLATE MINIMUM CLEARANCE DISTANCE. ALL GROWTH WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, BUT IN NO CASE WILL AFTER-CUTTING HEIGHT EXCEED SIX (6) INCHES ABOVE GROUND LINE, UNLESS OTHERWISE DIRECTED BY THE ENVIRONMENTAL MONITOR (EM).
- 3. REASONABLE CARE WILL BE TAKEN, INSOFAR AS IS PRACTICAL, TO RETAIN DESIRABLE SPECIES FOUND WITHIN TYPE II CLEARING ZONES. THE ENVIRONMENTAL MONITOR (EM) WILL MAKE A FIELD DETERMINATION AS TO WHETHER SUCH RETENTION WOULD IMPOSE AN UNREASONABLE BURDEN ON CLEARING OR CONSTRUCTION ACTIVITIES.

WOOD/SLASH DISPOSAL METHODS

- 1. TYPE A CONSISTS OF REMOVING ALL WOODY DEBRIS FROM THE PROPERTY.
- 2. TYPE B CONSISTS OF THE REMOVAL OF ALL LOGS FROM THE PROPERTY. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN THE LIMITS OF DISTURBANCE.
- 3. TYPE C LOGS SHALL BE PLACED IN PILES IN DESIGNATED STORAGE AREAS AS SHOWN, OR AT THE EDGE OF THE LIMITS OF
- DISTURBANCE. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN THE LIMITS OF DISTURBANCE.
 4. TYPE D CONSISTS OF DROPPING LOPPING TREES SO THAT THE SLASH LIES AS CLOSE TO THE GROUND AS PRACTICABLE, WITH BRANCHES AND LIMB WOOD NOT EXCEEDING AN AVERAGE DEPTH OF TWENTY-FOUR (24) INCHES. INCLUDING WETLAND AND
- BRANCHES AND LIMB WOOD NOT EXCEEDING AN AVERAGE DEPTH OF TWENTY-FOUR (24) INCHES. INCLUDING WEITAND AND STREAMS AREAS, TYPE D WOOD DISPOSAL WILL ADHERE TO THE FOLLOWING ADDITIONAL CONDITIONS INCLUDED:
 4.1. ONLY A SELECTIVE PORTION OF VEGETATION, AS NEEDED TO PREVENT THE BLOCKING OF FLOW AND THE TRAPPING OF DEBRIS, IS TO BE REMOVED FROM THE WATER COURSE AND FLOODWAY, ALL CUTTINGS (REGARDLESS OF LOCATIONS) ARE TO BE CUT AND BUCKED TO LIE NEAR GROUND LEVEL. HOWEVER WHERE TREE ROOT BASES ARE ATTACHED TO THE STREAM BANK, THEY WILL BE
- LEFT IN PLACES. THE REMAINDER OF THE TREE WILL BE CUT FROM THE BASE PRIOR TO REMOVAL.

DANGER TREES

- A DANGER TREE IS ANY TREE ROOTED OUTSIDE OF A ROW THAT DUE TO ITS PROXIMITY AND PHYSICAL CONDITION (I.E., MORALITY, LEAN, DECAY, CAVITIES, CRACKS, WEAK BRANCHING, ROOT LIFTING, OR OTHER INSTABILITY), POSES A PARTICULAR DANGER TO A CONDUCTOR OR OTHER KEY COMPONENT OF THE FACILITY.
- 2. ALL DANGER TREES WILL BE REMOVED AT THE TIME OF THE INITIAL CLEARING AND AS PART OF THE NORMAL CLEARING ACTIVITIES. THE SLASH FROM THESE DANGER TREES WILL BE DISPOSED OF IN ACCORDANCE WITH THE SLASH DISPOSAL METHOD DESIGNATED FOR THE WORK AREA ADJOINING THE AREA FROM WHICH THE DANGER TREES HAVE BEEN REMOVED.

PROCEDURE FOR OFF-SITE REMOVAL OF STUMPS, CHIPS, AND SLASH

- WHERE OFF-SITE REMOVAL OF STUMPS, CHIPS, OR SLASH IS NECESSARY, ALL MATERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR. IN ALL CASES, ALL MATERIAL THAT IS REMOVED FROM THE SITE WILL BE DISPOSED ON IN AN ENVIRONMENTALLY-ACCEPTABLE MANNER AND IN COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS INCLUDING 6 NYCRR PART 192 AND ALL OTHER INVASIVE SPECIES REGULATIONS.
- 2. THE CONTRACTOR WILL PROVIDE AGRICOLA WIND LLC WITH A DESCRIPTION AND THE LOCATION OF ALL PROPOSED OFF-SITE DISPOSAL SITES PRIOR TO THE START OF THE PROJECT. THE ENVIRONMENTAL MONITOR (EM) WILL INSPECT ALL PROPOSED OFF-SITE DISPOSAL SITES TO ENSURE THAT THEY ARE SUITABLE AND WILL NOTIFY ORES.

CULTURAL RESOURCE PROTECTION

- 1. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE CONTRACTOR TO DISCUSS THE AREAS OF SENSITIVITY, AVOIDANCE MEASURES AND THE EXTENT OF THE PROTECTION MEASURES.
- 2. IMPACTS TO ARCHEOLOGICAL AND HISTORIC RESOURCES SHALL BE AVOIDED OR MINIMIZED TO THE EXTENT PRACTICABLE. CONSTRUCTION, INCLUDING SITE CLEARING OR OTHER DISTURBANCE, SHALL NOT BE ALLOWED IN ANY AREAS THAT HAVE NOT BEEN REVIEWED AND APPROVED FOR THE PRESENCE OF CULTURAL RESOURCES.
- CONTRACTOR MUST COMPLY WITH THE PROJECT UNANTICIPATED DISCOVERY PLAN, WHICH ESTABLISHES PROCEDURES IN THE EVENT THAT RESOURCES OF CULTURAL, HISTORICAL, OR ARCHAEOLOGICAL IMPORTANCE ARE ENCOUNTERED DURING FACILITY CONSTRUCTION.

TRENCHLESS CROSSING NOTES

- THE CONTRACTOR SHALL ADHERE TO APPROVED CONTINGENCY PLAN/INADVERTENT RELEASE PLAN PRIOR TO COMMENCING ANY TRENCHLESS DRILLING OPERATIONS. IN THE EVENT OF AN INADVERTENT DRILLING MUD RETURN THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING THE EVENT IN ACCORDANCE WITH THE ARTICLE VIII PERMIT.
- TRENCHLESS CROSSINGS ARE TO BE COMPLETED BY HORIZONTAL DIRECTIONAL DRILLING (HDD) OR BORE
- 3. CONTRACTOR SHALL LIMIT TREE CLEARING OVER HDDS AND BORES.
- 4. THE CONTRACTOR SHALL COMPLETE THE HDD IN GENERAL ACCORDANCE WITH THE CONCEPTUAL DRILL PATH SHOWN ON THE
- DRAWINGS. THE MINIMUM CLEARANCES FROM UTILITIES, STREAMS, WETLANDS, AND PAVED AREAS ARE SHOWN ON THE PLANS.
 5. CONCEPTUAL ALIGNMENT SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN EVALUATION BASED UPON AVAILABLE TOOLS, EQUIPMENT, AND MATERIALS PROPOSED FOR USE IN BID PRICE AND GIVEN THE AVAILABLE SUBSURFACE CONDITIONS

Westwood Surveying and Engineering, P.C.

REDACTED - Matter No. 23-03002

EOR: Allison Leach, PE

PREPARED FO

Agricola Wind LLC

90 State Street Albany, NY 12207

REVISIONS:									
#	DATE	COMMENT	В	Y (СНК	APR			
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Agricola Wind Project

Cayuga County, New York

General Notes - 2

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