FINAL ENVIRONMENTAL IMPACT STATEMENT
APPENDIX J
VISUAL CONTRAST RATING WORKSHEETS
- VISUAL CONTRAST RATING WORKSHELTS



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		Section	A: Project Inforn	nation							
	Project Name	Viewpoint /		e / Longitude		Laie Hawaii	ocation				
	Na Pua Makani	Photo Point 01	21.04	78 ,-157.9290		Lale Hawaii	теттріе				
	Se	ction B: Chara	cteristic Landsca	ape Descript	tion						
	Land / Water		VEGETATION		-	Struc	CTURES				
	Clear and clean prominent water in fountain structure	Jagged domed	Jagged domed and flat vegetation in the foreground			ectangular buildings an					
Form	Flat and gently sloping landform in the foreground		Rolling vegetation in the background								
R.	Rolling to rugged landform partially visible in the backgrou	ınd									
	Horizontal smooth (reflecting pool) and vertical geometric	Flat lawn and s	shrubs. Regular to round shrubs	and trees. Angular	Simple vert	tical columns and flag	pole, horizontal fountains				
LINE	(fountain) water	and irregular p		ana 110001711194141	opio voit	ioai colamilo ana mag j	oolo, nonzonal rounalio				
٥	Horizontal landform - foreground Curving mountains - background										
OR.	Cool blues reflection	light to dark gre grays	eens		whites, gra	ys, tans					
Color	light to dark greens	browns reds									
RE	smooth and glossy (reflecting pool) medium directional (fo	ountain) smooth to roug	<b>jh</b>		smooth						
Texture	gradational landform										
<u> </u>											
		Section C: Pi	roposed Activity	Description							
	Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:										
	Land / Water		VEGETATION			Struc	CTURES				
_	same as above	same as above	9		same as ab	pove					
Form											
	same as above	same as above	same as above			oove					
LINE											
_											
	same as above	same as above	same as above			same as above					
Color											
ပိ											
	same as above	same as above	9		same as ab	oove					
TUR											
Texture											
	Section D: Contrast Rat	ing		Section E	: Viewe	er Response					
	Features		Viewer Sensitivity	DURATION OF V	$\overline{}$	/iewer Use	Overall Response				
_	LAND/WATER VEGETATION	STRUCTURES	High	Moderate		High	High				
DE	GREE OF USE SEE SEE	GRATE									
Co	STRONG WEAK WEAK WEAK WOOFERATE WOOFFATE WANTE	Strong Moderate Weak	ADDITIONAL COMMENTS	ha Vieumaint O4 Drais	مطالمان مدينا	nortially to fully acres	and by your station. It is nearly la				
	0 ≥ 5 2 0 ≥ 5 2   FORM     √     √	(	that portions of some turbines casual observer.				ned by vegetation. It is possible would not be noticed by the				
TS	I <del>I I I I I I I I</del>	<del>, - - - -</del>  -									
ELEMENTS	LINE V	, <del>      '</del> ,									
	Color V	,	Evaluator(s)			DATE					
	TEXTURE	<b> </b>	Jennifer D'Avanzo Chris Lawson	Updated Jar	2016	Picture Taken - Ma 2013					
	OVERALL LEVEL OF CONTRAST: None		Cillis Lawsoll	opualeu Jai	12010	Evaluated - May 2	PAGE 1 / 1				



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		Section	A: Project Inforn	nation							
	Project Name	Viewpoint /		e / Longitude	I	cation					
	Na Pua Makani	Photo Point	21.639200000	00, -157.9200000	0000 Polynesian Ci	ultural Center					
	Se	ction B: Chara	cteristic Landsca	ape Description	n						
	Land / Water		VEGETATION		Struct	URES					
_	No water	Rounded and i	rregular, columnar	Fla	t, blocky parking lot, regular squa	are building`					
FORM	Flat										
ш											
	Horizontal	Angular and sn	nooth		rizontal parking lot and curbs and	I vertical light poles and					
LINE				fen	cing						
_											
	NA (no landform color evident)	light to dark gre		do	dra light grove topo vehitos hiv						
Color	INA (No fandioffit color evident)	browns tans	BEIIS	uai	k to light grays, tans, whites, blu	25					
S											
Æ	Smooth	Smooth to roug	gh	sm	ooth						
Texture											
1											
	Section C: Proposed Activity Description										
	HAS PHOTO SIMULATION BEEN CREATED? ☐ YES ✓ NO IF YES, FIGURE NUMBER:										
	Land / Water		VEGETATION		Struct	URES					
5	same as above	same as above	9	sar	ne as above						
Form											
	same as above	same as above	9	sar	ne as above						
LINE											
_											
	same as above	same as above	9	sar	same as above						
Color											
ပိ											
	same as above	same as above	9	sar	same as above						
URE											
Texture											
•	Santiam D. Comtract Dat	ind		Continue F. Vi	iowar Doomana						
	Section D: Contrast Rat Features		Viewer Sensitivity	DURATION OF VIEW	ewer Response Use Volume	Overall Response					
	LAND/WATER VEGETATION		High	Moderate	High	Moderate					
DEG			g	Woderate	i ligit	Moderate					
Co	STRONG WEAK NONE MODERATE WEAK WEAK NONE	Strong Moderate Weak	ADDITIONAL COMMENTS								
	MODE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MODE TO NONE MOD TO NONE	STRONG MODEF WEAK None			02. Views northwest toward Pro						
ည	FORM ✓ ✓	<b>′</b>	through the trees; if so, they w								
EN	Line 🗸 🔻	<b>′</b>									
ELEMENTS	Color 🗸 🗸		EVALUATOR(S)		DATE						
Щ	TEXTURE		Jennifer D'Avanzo		Picture Taken - May	1,					
	Overall Level of Contrast: none		Chris Lawson	Updated Jan 2	2013 O16 Evaluated - May 5 20	14 <b>Page 1 / 1</b>					



		Section	A: Project Inforn	nation								
	<b>Project Name</b> Na Pua Makani	Viewpoint / Photo Point	• • • • • • • • • • • • • • • • • • •	e / <b>Longitude</b> 62, -157.9040	LOS Church, Ha	cation <sub>uula</sub>						
	Se	ction B: Chara	ncteristic Landsca	ape Description	on							
	Land / Water		VEGETATION		STRUCT	URES						
<b>Г</b> оям	Prominent flat ocean Flat beach Rugged mountains, rolling to flat land	Rounded and i	irregular		at and curving road oxy building							
LINE	Horizontal ocean Flat beach Rugged sloping mountains in middle ground Rolling to flat hills in background	Bold and rugge	ed to parallel	Bo	orizontal and curving conductor lin old building ertical utility poles, fencing	es						
Color	Cool to medium blues Tans, browns	Light to dark gi Browns Tans Reds	reens	В	rowns, blacks, grays, tans, yellow							
Texture	Smooth water Stippled beach and landform - foreground Medium middle ground Striated background	Medium and g	radational	sr	nooth and directional							
		Section C: P	roposed Activity	Description								
	HAS PHOTO SIMULATION BEEN	CREATED FOR KO	P? Yes V	lo If Yes, Fi	GURE NUMBER:							
	Land / Water		VEGETATION		STRUCT	URES						
<b>F</b> оRм	same as above	same as above	е	sa	ame as above							
LINE	same as above	same as above	е	Sé	same as above							
Color	same as above	same as above	е	Sé	same as above							
Texture	same as above	same as above	е	SE	ame as above							
	Section D: Contrast Rat				/iewer Response							
PERTURES  LAND/WATER VEGETATION STRUCTURES  DEGREE OF CONTRAST  FORM WODE BY A WAND ON WOOD BY A WAND			possible that the tips of turbin	e blades might be visible	Moderate  Moderate  on view from the highway, rather the above the low ground across the lect turbines might also be screene	pay. The existing Kahuku						
ELEMENTS	COLOR		EVALUATOR(s)  Jennifer D'Avanzo Chris Lawson  DATE  Picture Taken - May 1, 2013 Evaluated - May 2014  P									



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			Secti	on A:	Project Inforn	nation					
		roject Name a Pua Makani	Viewpoint / Photo Poin			e / <b>Longitude</b> 57, -157.9580		I	cation Intial Community		
		Se	ection B: Cha	aracte	eristic Landsca	pe Descrip	tion				
		Land / Water			VEGETATION			STRUCTU	JRES		
Fоrм	No water Flat in foregroun	nd to hilly in middleground	Flat and r Angular a	olling nd rugged			Vertical po	lar boxy homes oles and fences and curving conductor lines ind farm are visible among			
LINE					cal		Bold, geor Vertical converging	metric g and diverging			
Color	Browns			ns to dark ( grays, brow			Browns, you Grays and Whites	ellows, blues, greens, pinks d blacks.	i, tans.		
Texture	Smooth to medium				Smooth to rough			nd medium			
			Section C	Prop	osed Activity I	Description					
	Has	PHOTO SIMULATION BEEN	CREATED?		Yes ✓ N	o If Yes, F	IGURE N	Number:			
		Land / Water			VEGETATION	•		STRUCTU	JRES		
FORM	same as above Same a							above, with additional vertic n much of the view.			
LINE	same as above		Same as	Same as above			Same as a	above			
Color	same as above		same as	same as above			Same as above				
Texture	same as above		same as	same as above sai			same as a	above			
	Se	ection D: Contrast Ra	ting			Section E	: Viewe	er Response			
DEGREE OF CONTRAST  Now Weak Management of the contrast Structures			AD The	High  DITIONAL COMMENTS Project turbines would be sting view is highly modified		est about 0.5	User Volume High 5 mile away. The contrast welements.	Overall Response High			
ELEMENTS	FORM LINE COLOR TEXTURE	EVEL OF CONTRAST: Wea		] Je	ALUATOR(s) ennifer D'Avanzo nris Lawson	Updated Ja	n 2016	DATE Picture Taken - May 1, 2013 Evaluated - May 5, 201			



l											
		Section	A: Project Inforn	nation							
	<b>Project Name</b> Na Pua Makani	Viewpoint / Photo Point		e / <b>Longitude</b> 56, - 157.958	<b>Lo</b> Kahuku Suga	<b>cation</b> r Mill Site					
	Se	ction B: Chara	cteristic Landsca	ape Description	on						
	Land / Water		VEGETATION		Struct	TURES					
<b>F</b> orm	No water Flat in foreground to hilly in middleground	Flat and rolling Angular and ru		Ve	ectangular buildings, curving road rtical poles and signs agonal and curving conductor line						
LINE	Horizontal to undulating	Horizontal and rounded, rugge	l vertical and whispy ed and jagged	Ve	old, geometric ortical orving lines						
Color	Browns	light greens to Yellows, grays		da	owns, yellows, blues, greens, tan rk grays and blacks oranges reds nites						
Texture	Smooth to medium	Smooth to roug	gh	Sn	nooth and medium						
	Section C: Proposed Activity Description										
	Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:										
	Land / Water		VEGETATION		STRUCT	TURES					
FоRM	same as above	Same as abov	е	Sa	me as above, with additional turb	ines					
LINE	same as above	Same as above	е	Ad	Additional vertical elements with Project wind turbines						
Согов	same as above	same as above	е	Sa	Same as above						
Техтияе	same as above	same as above	е	sa	me as above						
	Section D: Contrast Rat	ing		Section E: V	iewer Response						
	Features		<u>Viewer Sensitivity</u>	DURATION OF VIEW	v U <u>ser Volum</u> e	Overall Response					
Degree of H H H		Strong Moderate Weak None	ADDITIONAL COMMENTS  Project is 0.6 mile from the Project nearest turbine. Weak contrast within a modified landscape. Viewers are en and customers of commercial uses at the site.			Low-Moderate					
ELEMENTS	FORM         ✓           LINE         ✓           COLOR         ✓										
Ш	TEXTURE	<b>/</b>	Evaluator(s) Jennifer D'Avanzo		DATE Picture Taken - May	1,					
	OVERALL LEVEL OF CONTRAST: Weak	(	Jennifer D'Avanzo Chris Lawson Updated Jan 2016 Evaluated - May 5, 2014 PAGE 1 / 1								



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		Section	A: Project Information									
	Project Name	Viewpoint /	Latitude / Long	itude	1	ation						
	Na Pua Makani	Photo Point 06 (SIM)	21.6756, - 157	7.958	Kahuku Commi	unity Center						
	50		acteristic Landscape De	corintion								
	LAND / WATER	CHOILD. CHAIR	Vegetation	Scription	Structu	IDEC						
	No water	Flat and rolling		Poetangula	ar buildings	JRES						
Form	Flat in foreground to rolling in middleground and backgrou			Vertical ligh Diagonal a	ht poles, utility poles and fe and curving conductor lines.	Few turbines						
Fo				Sports field	d light standards create stro	ong vertical form.						
	Horizontal to undulating	Horizontal		Bold geom	netric horizontal and vertica	ıl						
LINE	Tronzoniar o driddialing		ed and jagged	Curving line		u						
	Browns	light greens to	n dark greens	Browns ar	reens, tans, beiges							
Color	Johns	Yellows, grays		light grays, Whites								
ပိ												
	Smooth to medium	Smooth to rou	ıah	Smooth an	nd medium							
Texture			<b>5</b> .									
Tex												
		Section C: P	roposed Activity Descrip	otion								
	Has Photo Simulation Been			Yes, Figure N	JUMBER: 4.16-5							
	LAND / WATER	OKEAIED I	VEGETATION	120, 1100112 11	STRUCTU							
	same as above	Same as above		Same as a	bove, with additional wind							
Form												
ш												
	same as above	Same as above	/e	Same as a	bove, with additional vertic	al wind turbines						
LINE												
_												
~	same as above	same as abov	re	Same as a	Same as above							
Color												
S												
3E	same as above	same as abov	re	same as at	bove							
Texture												
ı												
	Section D: Contrast Rati				er Response							
	FEATURES		Viewer Sensitivity DURATION	ON OF VIEW	U <u>ser Volume</u>	Overall Response						
DF	LAND/WATER VEGETATION  GREE OF	STRUCTURES	Moderate (active   Brief/in recreation)	termittent	Moderate	Moderate						
	R G R	Strong Moderate Weak None	Additional Comments									
		STRONG MODEF WEAK NONE	Closest turbine would be 0.6 mile from Vie visual context.	wpoint 06. Scenic qua	ality is moderate. Moderate	contrast, based on existing						
IS	FORM											
1EN	LINE V											
ELEMENTS	Color V		EVALUATOR(S) DATE									
Ш	Texture	<b>´</b>	Jennifer D'Avanzo		Picture Taken - May 1, 2013							
	Overall Level of Contrast: Weak	(	Chris Lawson Updat	ted Jan 2016	Evaluated - May 5, 201	4 PAGE 1 / 1						



			S	Section	A: Project Inforn	nation					
	Pr	oject Name	Viewpo	oint /	Latitude	e / Longitude		Loc	ation		
	Na	a Pua Makani	Photo		int 21.6756, - 157.958			Malaekahana Sta	te Recreation Area		
				07							
		So	ection B:	: Chara	cteristic Landsca	ape Descrip	tion				
		Land / Water			VEGETATION			Structu	IRES		
<b>Г</b> окм	No water Flat in foregroun background	nd to rolling in middleground and rugged		at and rounde gged	ed to rolling		Vertical	geometric buildings and turbir poles and fences conductor lines and roads	e blades		
LINE	Horizontal to undulating				ed and jagged		Bold bar Vertical	nds and curving conductors poles			
Color	Browns			ht greens to ellows, grays,	dark greens , browns, tans			, greens, tans, beiges ys, browns			
Texture	Smooth to medium				Smooth to rough			Smooth and medium			
			Sectio	n C: Pr	oposed Activity I	Description					
	Has Photo Simulation Been Created?  Ves No If Yes, Figure Number: 4.16-5										
		Land / Water			VEGETATION	<u> </u>		STRUCTU	JRES		
Fокм	same as above		Sa	Same as above			Addition	al triangular turbine blades			
LINE	same as above		Sa	Same as above			Addition	nal irregular turbine blades			
Color	same as above		sa	same as above			Same as above				
Texture	same as above						same as	s above			
	Se	ection D: Contrast Ra	ting			Section E	: Viev	ver Response			
		FEATURE	5		<u>Viewer Sensitivity</u>	DURATION OF \	<u>∕IEW</u>	U <u>ser Volume</u>	Overall Response		
DEGREE OF CONTRAST  WOODERATE WEAK WEAK WOODERATE WEAK WOODERATE WEAK WOODERATE WEAK WOODERATE WEAK WOODERATE WEAK WOODERATE WOODERATE WEAK WOODERATE WOODER		MEAK None		Short Moderate Moderate  5 mpletely screened by vegetation. Attributes for Viewpoint 07 are based on the view at							
ELEMENTS	FORM LINE COLOR	✓	<b>√</b>	entrance of the Park so users would be driving by and not stopping.  Scenic quality is moderate.  Project is 1.0 mile from Viewpoint 07							
ш	TEXTURE		1	EVALUATOR(S)  DATE  Picture Taken - May 1,							
		EVEL OF CONTRACT: Wes	<u> </u>	ĪŸ	Jennifer D'Avanzo Chris Lawson	Updated Ja	n 2016	2013			



			Section	n A: Project Inforr	mation							
	Pr	oject Name	Viewpoint /	Latitud	e / Longitude	Loc	ation					
	Na	a Pua Makani	Photo Point	21.6	937, - 157.98	Kamehameha H	ighway near Kahuku					
		Se	ection B: Char	acteristic Landsc	ape Descriptio	n						
		Land / Water		VEGETATION		Struct	URES					
<b>F</b> окм	No water Flat to rolling in	middleground. Rugged background.	Flat and rour Rolling and r		verti	ving road, horizontal fences, rect ical poles and non directional bla ving conductors						
LINE	Horizontal and r	ounded to undulating	Horizontal ar Vertical, ang Rugged	nd rounded ular and wispy	Geo	metric, vertical. Turbines, horizo	ntal, curving conductors.					
Color	Browns, tans an	d light greens		o dark greens rs, browns, tans, beiges	Whi	tes, browns, grays, blacks, tans,	greens, reds, yellows					
Smooth to medium			Smooth to co	varse	Smo	Smooth to medium						
			Section C: F	Proposed Activity	Description							
	Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:											
		Land / Water		VEGETATION		STRUCT	URES					
<b>F</b> окм	same as above		Same as abo	ove	Sam	ne as above, with additional verti	cal turbines					
LINE	same as above		Same as abo	ve	Sam	Same as above, with additional turbines						
Color	same as above		same as abo	ve	Sam	Same as above						
Texture	same as above			ve	sam	e as above						
	Se	ection D: Contrast Ra				ewer Response						
		FEATURES		<u>Viewer Sensitivity</u>	DURATION OF VIEW	U <u>ser Volum</u> e	Overall Response					
Degree of H H H		IG RATE			High	Moderate  . Highway viewpoint is 0.4						
ELEMENTS	FORM LINE COLOR	/ · · · · · · · · · · · · · · · · · · ·		mile from closest turbine.								
🗖	TEXTURE		7	EVALUATOR(S)  DATE  Picture Taken - May 1,								
		Level of Contrast: Wea	k	Jennifer D'Avanzo Chris Lawson	Updated Jan 20	2013						
I	OVERALL L	LEVEL OF CONTRASTVCa		1		• • •	· //~ - / -					



				Section	A: Project Inforn	nation		Ų.			
	Pr	oject Name	Viewp	, ,				1	ation		
	Na	a Pua Makani	Photo	Point 09	21.6763, -157.947			Kahuku High and	ntermediate School		
			ection B	: Charac	cteristic Landsca	ape Descrip	tion				
		Land / Water			VEGETATION		I	Structu	RES		
FORM	No water Flat in foregroun	nd to rugged and rolling background		Flat, vertical, and rounded Rugged background			Vertical pol Diagonal a	ar buildings, curving roads les and signs nd curving conductor lines nmunication tower			
LINE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			orizontal and v	vertical and wispy		Bold, geom Vertical Curving line	netric, and horizontal			
Color	Browns				dark greens browns			ellows, blues, greens, tans and blacks, oranges, reds d red			
Texture	Smooth to medium			Smooth to rough			Smooth and medium				
	Section C: Proposed Activity Description										
	Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:										
		Land / Water			VEGETATION	- /		STRUCTU	<del></del> RES		
	same as above sam			ame as above			Upper parts	s of vertical and angular wi			
FORM											
LINE	same as above		Sa	same as above			Upper parts of vertical wind turbines				
<u> </u>	same as above		sa	same as above			Same as above				
Color											
Texture	same as above		sa	same as above			same as ab	bove			
	Se	ection D: Contrast Ra			Viennes Cara III I			er Response	Ournay Deepers		
	1	FEATURE			Viewer Sensitivity	DURATION OF \	/IEW	U <u>ser Volum</u> e	Overall Response		
DEC	REE OF	LAND/WATER VEGETATION		TURES	Moderate	Short and Intermitter		High	Moderate		
	NTRAST	Strong Moderate Weak None Strong Moderate	None Strong Moderate	WEAK None	ADDITIONAL COMMENTS Scenic quality is low. Project i elements of modified landsca	s 0.5 mile from schoo		s of turbines would be visib	le but subordinate to other		
ELEMENTS	Form Line	<b>√</b>	<b>√</b>	S.S. Touribu Idiusta	<del>,</del>						
EM	E Color										
ಥ	Texture / / /				Evaluator(s) Jennifer D'Avanzo			<b>DATE</b> Picture Taken - May 2,			
		EVEL OF CONTRAST: Wea	ık		Chris Lawson-updat	ted Jan 2016		2013 Evaluated - May 5, 2014	PAGE 1 / 1		



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				Section	A: Project Inforn	nation					
		roject Name a Pua Makani		wpoint / oto Point		e / <b>Longitude</b> 022, -157.992			<b>cation</b> sort Golf Course		
			Section	B: Chara	acteristic Landsca	ape Descrip	tion				
		Land / Water			VEGETATION			Struct	URES		
Form	Wetland/Water - Flat to rolling for	curving reground to rugged background			Flat and rolling to vertical and rounded Angular and rugged			ind turbines aths ar buildings			
LINE	,			Horizontal Vertical, round	ded, rugged and jagged		Bold vertic Curving Geometric	cal and irregular			
Color	Browns, oranges, sienna, and greens				o dark greens s, browns		Whites, gre	eys, tans			
Texture	Smooth to media	um		Smooth to rou	gh		Smooth an	nd medium			
			Sec	tion C: P	roposed Activity	Description					
	Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:										
Land / Water					VEGETATION			Struct	URES		
FоRM	same as above			same as abov	е		Potentially	angular and vertical addit	ional turbines		
LINE	same as above			same as abov	е		Potentially	vertical and geometric ad	ditional turbines		
Color	same as above			same as abov	е		same as a	above			
Texture	same as above			same as abov	e		same as a	above			
	Se	ection D: Contrast F						er Response			
DEGREE OF CONTRAST  None Weak Moderate None Weak Moderate None None None None None None None Non			Moderate  Additional Comments			User Volume Moderate	Overall Response  Low-Moderate				
ELEMENTS	FORM LINE COLOR TEXTURE		√		EVALUATOR(s) Jennifer D'Avanzo Chris Lawson-upda		closer to vie	DATE Picture Taken - April 2 2013 Evaluated - May 5, 20	3,		



		Section	A: Project Inforn	nation								
	Project Name	Viewpoint /	Latitude	e / Longitude	I	ation						
	Na Pua Makani	Photo Point	21.57	771, -157.882	Punaluu	Beach Park						
		ction B: Chara	ncteristic Landsca	ape Description								
	Land / Water		VEGETATION		Structi	JRES						
Σ	Prominent flat ocean Flat beach	Irregular and re	ugged		ngular buildings al poles							
FORM	Rugged mountains, rolling to flat land											
	Horizontal ocean Flat beach	Vertical and cu	urving	Geom	etric and vertical							
L E	Rugged mountains in middleground Rolling to flat hills in background											
<sub>K</sub>	Cool to medium and dark blues with tans and whites Tans, browns	Light to dark g Browns	reens, yellows	Tans,	light grays, greens, browns							
Color		Tans										
뿔	Smooth water Stippled beach and landform - foreground	Medium and g	radational	Smoo	th							
Texture	Medium middleground and background											
	Section C: Proposed Activity Description											
	HAS PHOTO SIMULATION BEEN CREATED ? Yes ✓ NO IF YES, FIGURE NUMBER:											
-	LAND / WATER	same as above	VEGETATION	Likoh	STRUCTI	JRES						
FORM				Likely	Same as above							
<u>R</u>												
	same as above	same as above	e	Likoh	same as above							
LINE				Likely	same as above							
<u>-</u>												
	same as above	same as above	e	same	same as above							
COLOR		Journa de de la constant		Came	same as above							
ပြ												
	same as above	same as above	Δ	same	same as above							
l RE		Same as above		Same	as above							
Texture												
	Section D: Contrast Rat	ing		Soction F. Vic	wer Response							
	FEATURES		Viewer Sensitivity	DURATION OF VIEW	User Volume	Overall Response						
	LAND/WATER VEGETATION		High	Moderate	Moderate	Moderate						
DE					Woderate	Woderate						
Co	STRONG  WEAK NONE MADERATE  MODERATE  MODERATE  MODERATE  MODERATE		ADDITIONAL COMMENTS									
	S   S   S   S   S   S   S   S   S   S	Moder Weak			ghway but likely blocked or scre at ocean mostly likely not towa							
VTS	LINE V	/	<u>                                      </u>									
ELEMENTS	Color V	/										
🖫	Texture	<del>                                     </del>	EVALUATOR(S)		DATE Picture Taken - May 1,							
		, , , , , , , , , , , , , , , , , , ,	Jennifer D'Avanzo Chris Lawson-upda	ted Jan 2016	2013 Evaluated - May 2014							
1	Overall Level of Contrast: none		1		a.aatoa may 2014	I AGE I / I						



			A: Project Inforr									
	Project Name	Viewpoint /	Latitud	e / Longitude		cation						
	Na Pua Makani	Photo Point	21.5	569, -157.853	Ahupua'a O'Kahana	a Valley State Park Beach						
	Section B: Characteristic Landscape Description											
	Land / Water		VEGETATION		Struct	URES						
	Flat clear water	Rugged to vertice	cal	ι	Distant geometric buildings							
FORM	Rocky and flat to rugged landform											
<u>K</u>												
	Horizontal	Undulating and	vortical		Geometric							
 	Rugged	Horizontal edge			Seometric							
LINE												
<u>~</u>	Cool light blues to medium and dark blues Tans, blacks, browns, beiges, and whites	Light to dark gre	eens, tans, browns, yellows	\	Whites							
Color												
0												
ш	Coarse to medium	Medium and rou	ugh	\$	Scattered fine							
Texture												
≝												
		Continu C. Du	opposed Astivity	Description								
Section C: Proposed Activity Description												
	Has Photo Simulation Been Created? ☐ Yes ✓ No If Yes, Figure Number:											
<u> </u>	LAND / WATER	same as above	VEGETATION		STRUCT	URES						
≥ ≈		same as assis			same as above							
FORM												
l	same as above	same as above		5	same as above							
L												
_												
	same as above	same as above		5	same as above							
Color												
ပြိ												
	same as above	same as above		5	same as above							
l ä												
Texture												
ᄕ												
	Section D: Contrast Rat				Viewer Response	Domena Domena						
	FEATURES		SCENIC QUALITY	DURATION OF VI	User Volume	OVERALL Response						
DE	LAND/WATER VEGETATION  GREE OF # #	STRUCTURES	High	Moderate	Moderate	Moderate						
l	<u> </u>	ERATI	Additional Comments									
60	STRONG NONERATE NONERATE NONERATE NONERATE NONERATE NONERATE	STRONG MODERATE WEAK NONE			or screened, not noticeable if partia	ally visible.						
,_	FORM / /											
K	LINE V	<del>/                                    </del>										
ELEMENTS	COLOR	<del>/                                    </del>										
🖫		<del>/                                    </del>	Evaluator(s)		DATE Bigture Token Move							
	TEXTURE     ✓     ✓		Jennifer D'Avanzo	ted Ian 2016	Picture Taken - May 2013							
Overall Level of Contrast: none Chris Lawson-updated Jan 2016 Evaluated - May 5, 2014												



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	Section A: Project Information										
	Project Name	Viewpoint /	wpoint / Latitude / Longitude				Loc	ation			
	Na Pua Makani	Photo Point		21.68	339, -157.955		James Campbell Na	ational Wildlife Refuge			
		ection B: Char			ape Descrip	tion	_				
	Land / Water		VE	GETATION		ı	Structu	RES			
FоRM	No water Flat in foreground to rolling in middleground and rugged background	Flat and rolli Angular and	and rolling ular and rugged			Vertical ut	lar sign, scattered rectangul: ility and fence poles, wind tu fences Diagonal and curvin	urbines, and			
LINE	Horizontal to undulating	Horizontal Rounded, ru	gged, and jag	ged		Geometric Bold vertic Curving lin					
Color	Browns	Light greens Yellows, gra	to dark green ys, browns	s		Browns, gr Light grays Whites	reens, tans, beiges s, browns				
Texture	Smooth to medium	Smooth to ro	Smooth to rough			Smooth and coarse					
	Section C: Proposed Activity Description										
HAS PHOTO SIMULATION BEEN CREATED? Ves No IF YES, FIGURE NUMBER: 4.16-6											
	Land / Water		VE	GETATION			Structu	RES			
<b>F</b> окм	Same as above	Same as abo	Same as above			Same as a	above, with additional vertica	al and angular turbine blades			
Line	same as above	Same as abo	Same as above			Additional vertical and angular wind turbines					
Согов	same as above	same as abo	same as above			same as above					
Texture	same as above	same as abo	same as above sam			same as a	above				
	Section D: Contrast Rat						er Response				
	FEATURES		<u>Viewe</u>	r Sensitivity	Duration of \		U <u>ser Volume</u>	Overall Response			
Dec	LAND/WATER VEGETATION			High	Moderate	9	Low	Moderate			
STRONG WEAK WEAK NONE STRONG MODERATE WEAK NONE STRONG MODERATE						lity is moder	rate. Project turbines would	be co-dominant with the			
ELEMENTS	FORM		evisuità M	ma ranti.							
	Color		EVALUAT	ror(s)			DATE				
ш	Texture	/		er D'Avanzo			Picture Taken - May 2, 2013				
	Overall Level of Contrast: Mode										



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		Section	A: Project Inforn	nation							
	Project Name	Viewpoint /	Latitude	e / Longitude	Location						
	Na Pua Makani	Photo Point	21.60	27, -157-9050	North Windwa	ard Baptist Church					
	Section B: Characteristic Landscape Description										
	Land / Water		VEGETATION		Structi	URES					
FоRM	Flat	Flat to rounded	d and angular	Veri	tangular building ical utility poles ving conductors						
LINE	Horizontal	Horizontal und	ulating and jagged	Ang	led rooflines, geometric, vertical,	and partially curving					
Color	Tans, browns	Light to dark go Browns Tans	reens and yellows	Bro	wns, grays, tans, whites						
Техтике	Smooth to medium	Smooth to med	dium to coarse	Smo	Smooth						
	Section C: Proposed Activity Description										
	Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:										
	LAND / WATER VEGETATION STRUCTURES										
	same as above	same as above		sam	e as above	-					
<b>F</b> оRм											
LINE	same as above	same as above	e	sam	same as above						
Color	same as above	same as above	е	San	Same as above						
Texture	same as above	same as above	е	sam	e as above						
	Section D: Contrast Ra	ting			ewer Response						
	FEATURES	S	Viewer Sensitivity	DURATION OF VIEW	U <u>ser Volum</u> e	Overall Response					
DEGREE OF  NONE WEAK WEAK WODERATE STRONG WEAK WEAK WEAK WEAK WEAK WEAK WEAK WEAK			Moderate Moderate  ADDITIONAL COMMENTS Project is 5 miles from Church. Grounds are enclosed by vegetation and			Moderate  ews of Project from Church or					
ELEMENTS		/	EVALUATOR(S)		Date						
Ш	Texture /	/ /	Jennifer D'Avanzo		Picture Taken - May 1						
	OVERALL LEVEL OF CONTRAST: NON	e	Chris Lawson-upda	ted Jan 2016	2013 Evaluated - May 2014 <b>PAGE 1 / 1</b>						



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		Section	A: Project Inforn	nation						
	Project Name	Viewpoint /	Latitud	e / Longitude	1	ation				
	Na Pua Makani	Photo Point	21.64	189, -157.914	Laie Point Coa	stal Residences				
		0								
	Section B: Characteristic Landscape Description									
	Land / Water	<u> </u>	VEGETATION	1	STRUCT	-				
Σ	Prominent flat ocean Flat beach Rugged hills	Irregular and r	rugged		ngular buildings in foreground a ar and irregular turbine blades					
Form	Rugged Hills									
ш	Horizontal undulating ocean Flat beach	Vertical and ru	ugged	Geom	etric and vertical					
LINE	Rugged mountains in middleground Rolling to flat hills in background									
R	Cool to medium and dark blues with tans and whites Beiges, tans, browns	Light to dark g Browns	reen, yellows	White	s, tans, light grays, greens, bro	wns				
Color		Tans								
RE	Smooth water Stippled beach and landform - foreground	Medium and g	radational	Smoo	th					
Texture	Medium middleground and background									
F										
Section C: Proposed Activity Description										
Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:										
	Land / Water	<del> </del>	VEGETATION		Structi					
Σ	same as above	same as abov	e	Same	as above, with additional turbing	nes				
Form										
ш	same as above	same as abov	e	Same	as above, with additional vertice	al and irregular turbines				
LINE										
N.	same as above	same as abov	e	same	same as above					
Color										
IRE	same as above	same as abov	e	same	as above					
Texture										
_										
	Section D: Contrast Rat		Viewer Consistivity		wer Response User Volume	Overall Response				
	FEATURES  LAND/WATER VEGETATION	STRUCTURES	Viewer Sensitivity High	DURATION OF VIEW		-				
DEC		ш	Tilgit	Long	Low-Moderate	High				
Co	STRONG WEAK WEAK WODERATE MODERATE NONE	STRONG MODERATE WEAK NONE	ADDITIONAL COMMENTS		<u>I</u>					
		S S S S			Lower parts of project turbines Project turbines would be more					
TS	FORM V									
ELEMENTS	LINE									
	Color		Evaluator(s)		DATE					
ш	Texture	<b>′</b>	Jennifer D'Avanzo	to d . lon. 0040	Picture Taken - May 1, 2013					
	Overall Level of Contrast: Mode	erate	Unris Lawson-upda	-updated Jan 2016 Evaluated - May 2014 PAGE 1						



Section A: Project Information											
	Project Name	Viewpoint /	Latitud	e / Longitude		cation					
	Na Pua Makani	Photo Point	21.5	569, -157.853	Swanzy	Beach Park					
	Section B: Characteristic Landscape Description										
	Land / Water		VEGETATION		Structi	URES					
Fокм	Flat clear water Rocky and flat to rugged landform	Flat Vertical and r Rugged	ounded		metric buildings ring path and wall						
LINE	Horizontal Rugged	Horizontal Vertical Undulating		Geo	metric and curving						
Color	Cool and light blues to medium and dark blues Tans, blacks, browns, beiges, and whites	Light to dark (	greens, tans, browns, yellows	Gray	/s, blues, whites, browns						
Texture	Coarse and smooth to medium	Smooth, med	ium, and rough	Coal	Coarse to smooth						
	Section C: Proposed Activity Description										
Has Photo Simulation Been Created? Yes V No If Yes, Figure Number:											
	Land / Water		Vegetation		STRUCT	URES					
Fокм	same as above	same as abov	ve	sam	e as above						
LINE	same as above	same as abov	ve	sam	same as above						
Color	same as above	same as abov	ve	sam	same as above						
Texture	same as above	same as abov	ve	sam	e as above						
	Section D: Contrast Rat	ting		Section E: Vi	ewer Response						
	Features		<u>Viewer Sensitvity</u>	DURATION OF VIEW	U <u>ser Volum</u> e	Overall Response					
Dec	LAND/WATER VEGETATION GREE OF H H		High	Moderate	Moderate	Moderate					
Co	FORM WEAK WODERA WOODERA WOODERA WOODERA WEAK WEAK WEAK WEAK WEAK WEAK WEAK WOODERA WO	STRONG MODERATE WEAK	ADDITIONAL COMMENTS Project is 9.5 miles from park are not evident when viewed	. 5-6 Kahuku Wind Farm tur	bines can be detected if photos for casual observer.	rom site are enlarged; they					
WE	LINE										
ELEMENTS	Color ✓	/ /	Evaluator(s) Jennifer D'Avanzo		DATE Picture Taken - May 1	,					
	Overall Level of Contrast: None Sevaluated - May 5, 2014 Page 1, 2013 Evaluated - May 5, 2014 Page 1, 2013										



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		Section	A: Project Inforn	nation							
	<b>Project Name</b> Na Pua Makani	Viewpoint / Photo Point		e / Longitude 759, -157.954	I	cation Hospital and Medical Center					
	Section B: Characteristic Landscape Description										
	Land / Water		VEGETATION		Structu	JRES					
<b>F</b> окм	No water Flat and rolling in foreground and middleground Rugged background	Flat, irregular a	and rounded	Verti	angular buildings and fences. Fla cal poles, turbines, and signs. No onal and curving conductor lines	on-directional turbine blades					
LINE	Horizontal to undulating	Horizontal and	vertical and wispy	Verti	geometric, and horizontal cal ing lines						
Color	Browns, siennas	Light greens to Yellows, grays		Brow Dark White	ns, yellows, blues, greens, tans grays and blacks, oranges, reds es	s					
Texture	Smooth to medium	Smooth to roug	gh	Smo	Smooth and medium						
Section C: Proposed Activity Description											
HAS PHOTO SIMULATION BEEN CREATED? Yes V NO IF YES, FIGURE NUMBER:											
	Land / Water		VEGETATION		Structu	JRES					
Form	same as above	Same as above	е	Sam	e as above, with additional vertic	al and angular turbines					
LINE	same as above	Same as above	е	Sam	Same as above, with additional vertical and angular wind turbines						
Color	same as above	same as above	9	same	same as above						
Texture	same as above	same as above		same	same as above						
	Section D: Contrast R	ating		Section E: Vie	ewer Response						
DEGREE OF CONTRAST  CONTRA					User Volume  Moderate  Oject is 0.5 mile from viewpoint.	OVERALL Response  Moderate  Project turbines would be					
ELEMENTS	FORM LINE COLOR TEXTURE  OVERALL LEVEL OF CONTRAST: We	√	partially screened or blocked. Weak contrast, based on view context.  EVALUATOR(S)  Jennifer D'Avanzo Chris Lawson-updated Jan 2016  DATE Picture Taken - May 2, 2013 Evaluated - May 5, 2014								



Section A: Project Information													
	Pr	oject Name	3		- 1		point /	, ,			Location		
	Na	a Pua Makar	ni			Pho	to Point	21.6745, -157.952				Kahuku Eler	nentary School
					Ш			_					
	Section B: Characteristic Landscape Description												
		LAND / W	ATER						VEGETATION			Structu	IRES
FоRM	No water Flat and rolling in foreground and middleground Rugged background Flat, irregula						Flat, irregular	\			Vertical	gular buildings and fences. Cu poles, turbines and signs. No al and curving conductor lines	
LINE						Horizontal and	ıd v	rertical and wispy		Bold, ge Vertical Curving			
Color	Browns, siennas					Light greens t Yellows, grays					, yellows, blues, greens, tans ays and blacks, oranges, reds		
Texture	Smooth to coarse					Smooth to rough			Smooth and medium				
	Section C: Proposed Activity Description												
HAS PHOTO SIMULATION BEEN CREATED? Yes V NO IF YES, FIGURE NUMBER:													
		LAND / W	ATER						VEGETATION			Structu	IRES
FORM						Same as above	Cal				is above, with additional angul screened	ar and vertical turbines	
Line					Same as above			Same as above, with additional vertical and angular wind turbines					
Color	same as above						same as above			same as above			
Texture	same as above same					same as abov	same as above same a			s above			
	Se	ection D: 0				g						wer Response	
	ı	-		EATUR					Viewer Sensitivity	DURATION OF \	/IEW	U <u>ser Volume</u>	Overall Response
DEGREE OF SATE SATE			Moderate Short High  ADDITIONAL COMMENTS  Existing scenic quality is low. Contrast is weak due to dominance of constructed features and particular to the contract of the cont			Moderate  and partial screening/blocking							
ELEMENTS	FORM LINE COLOR		√		- √ √		✓ ✓ ✓		of Project turbines.				
Ш			<del>,</del>	+		+	+   '		Evaluator(s)			DATE  Ricture Taken - May 2	
	TEXTURE	<u>`</u>	<u> </u>	\	23k   <b>▼</b>		<b>  Y</b>		Jennifer D'Avanzo Chris Lawson-updat	ted Jan 2016		Picture Taken - May 2, 2013 Evaluated - May 5, 201	4 Page 1 / 1
	UVERALL L	EVEL OF CO	INTRAS	1. vve	Jan							a.aa.oa iviay 5, 201	· AGE I/ I



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	Section A: Project Information										
	Pr	oject Name		wpoint / Latitude / Longitude				I	ation		
	Na	a Pua Makani	Phot	o Point	21.68	332, -157.945		Kahuku G	Golf Course		
	Section B: Characteristic Landscape Description										
		Land / Water			VEGETATION			STRUCTU			
Form	No water Flat and rolling f background	oreground to vertical in middleground ar		Flat and rolling Angular and rugged				oles, turbines, non-directional tice communication tower	al blades		
LINE	Horizontal to jag	ged to undulating		Horizontal and i Rugged and jag			Bold vertic	cal lines			
Color	Browns, tans, ar	nd light greens		Light greens to Yellows, grays,			Whites, bro	owns, grays, red			
Texture	Smooth and rou	gh to medium		Smooth to rough			Smooth				
	Section C: Proposed Activity Description										
Has Photo Simulation Been Created? Ves No If Yes, Figure Number: 4.16-7											
		Land / Water			Vegetation			STRUCTU	JRES		
FоRM	same as above				same as above			above, with increased numb	er of irregular turbine blades		
LINE	same as above			same as above			Same as above, with increased number vertical wind turbines				
Color	same as above			same as above			same as above				
Texture	same as above			same as above			same as a	bove			
	Se	ection D: Contrast Ra	ting			Section E		er Response			
FORM // // //					- Moderate Chort Wodera				OVERALL Response  Moderate  h turbines partially screened		
ELEMENTS	LINE COLOR TEXTURE OVERALL L	EVEL OF CONTRAST: Mod	/ / / erate	<b>√</b>	EVALUATOR(s)  Jennifer D'Avanzo Chris Lawson-updated Jan 2016  Date Picture Taken - May 2, 2013 Evaluated - May 5 2014						



l											
	Section A: Project Information										
	<b>Project Name</b> Na Pua Makani	Viewpoint / Photo Point		<b>e / Longitude</b> 596, -157.933			ation and Pedestrian Path				
	Section B: Characteristic Landscape Description										
	Land / Water		VEGETATION			STRUCTU	IRES				
FоRM	No water Flat in foreground to rolling in middleground and rugged background	Flat and round Rolling and rug Columnar			Linear, flat path, horizontal fences, vertical turbines, non-directional blades, highway Rectangular scattered buildings Vertical rows of utility poles						
LINE	Horizontal and rounded to undulating	Horizontal and Rugged	rounded	,	Vertical, horizo	ntal, curving geometric					
COLOR	Browns, tans, and light greens	Light greens to Yellows, grays,	dark greens , browns, tans, beiges	,	Whites, browns	s, grays, reds					
Texture	Smooth to medium	Smooth to med	Smooth to medium			Smooth paved surfaces and pastures, coarse vegetation					
	Section C: Proposed Activity Description										
HAS PHOTO SIMULATION BEEN CREATED? Ves No IF Yes, FIGURE NUMBER: 4.16-8											
	Land / Water		VEGETATION			Structu	IRES				
<b>F</b> orm	same as above	same as above	9	;	Same as above	e, with increased numb	er of turbines				
LINE	same as above	same as above	same as above			Same as above, with increased number of vertical turbines					
Согов	same as above	same as above	same as above			Same as above, with more white from turbines					
Техтияе	same as above	same as above	same as above same a			9					
	Section D: Contrast Rat	ing		Section E:							
	FEATURES		VIEWER Sensitvity	DURATION OF VI	EW US	ser Volume	OVERALL Response				
	MATER NOOPERATE NOON WEAK WEAK WEAK WEAK WOOD END WATER NOON WEAK WEAK WEAK WOOD END WATER NOOPERATE NOON WOOD END WATER NOOPERATE NOOPE	Strocare Moderate Weak None	ADDITIONAL COMMENTS  Path viewpoint location is 1.2 miles from Project. Scenic quality in view toward Project is moderate, but low in			Moderate  oderate, but low in view  t reduced to moderate in this					
ELEMENTS	FORM         ✓         ✓           LINE         ✓         ✓           COLOR         ✓         ✓	/ / / / / / / / / / / / / / / / / / /	context.		, In surround		and the second of the second o				
Щ	Texture		Evaluator(s) Jennifer D'Avanzo		Р	DATE Picture Taken - April 22					
	OVERALL LEVEL OF CONTRAST: Mode	erate	Jennier D Avanzo				PAGE 1 / 1				



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Section A: Project Information											
	Project Name	Viewpoint /	Latitude	e / Longitude	Loc	ation					
	Na Pua Makani	Photo Point	21.6	937, -157.98	Kamehameha Hig	hway near Turtle Bay					
		ction B: Chara	cteristic Landsca	ape Descriptio							
	Land / Water		VEGETATION		Structi						
FоRM	No water Flat to rolling in middleground. Rugged background	Flat and round Rolling and ru		vert	ving road, horizontal fences, recta ical poles and non-directional bla ving conductors						
LINE	Horizontal and rounded to undulating	Horizontal and Vertical, angul Rugged		Geo	metric, vertical turbines, horizont	al, curving conductros					
Color	Browns, tans, and light greens	Light greens to Yellows, grays	o dark greens , browns, tans, beiges	Whi	tes, browns, grays, blacks, tans,	greens, reds, yellows					
Texture	Smooth to medium	Smooth to coa	rse	Smo	Smooth to medium						
	Section C: Proposed Activity Description										
HAS PHOTO SIMULATION BEEN CREATED? Yes V NO IF YES, FIGURE NUMBER:											
	Land / Water		VEGETATION		Structi	URES					
<b>F</b> окм	same as above	same as above	9		ne as above, with additional verticidge	cal turbines partially blocked					
LINE	same as above	same as above	е	San	Same as above, with additional turbines						
Согоя	same as above	same as above	е	sam	same as above						
Texture	same as above	same as above	9	sam	e as above						
	Section D: Contrast Rat				ewer Response						
	FEATURES		<u>Viewer Sensitivity</u>	DURATION OF VIEW		Overall Response					
	FORM LINE LAND/WATER VEGETATION  LAND/WATER VEGETATION  LAND/WATER VEGETATION  LAND/WATER VEGETATION  VEGETATION	G	Moderate  Additional Comments  From highway. 1.6 miles from farm. Low ridge would partiall	the Project. Scenic quality	High is low due to constructed feature pines.	Moderate s, including an existing wind					
LEN	Color 🗸 🗸		EVALUATOR(S) DATE								
ш	Texture	′	Jennifer D'Avanzo		Picture Taken - April 22	2,					
Overall Level of Contrast: Moderate Chris Lawson-updated Jan 2016 Evaluated - May 5 2014 P.											