



DRYDEN RD 3.75 MW AC (Aggregate)  
SOLAR PROJECT VIEWSHED STUDY

Prepared for:  
TOWN OF DRYDEN  
TOMPKINS COUNTY, NEW YORK

Prepared by:  
Delaware River Solar, LLC

SEPTEMBER 28<sup>th</sup> 2017



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## TABLE OF CONTENTS

1. SOLAR FACILITY SUMMARY DATA .....	4
1.1. Location.....	5
1.2. Nearest Residential Structures .....	6
1.3. Road Side Views .....	8
1.4. Proposed Vegetative Screening .....	8
2. SITE TOPOGRAPHY .....	9
3. VIEWSHED GRAPHICS .....	10
4. SUMMARY .....	15
5. PROPOSED SCREENING .....	15

# 1. SOLAR FACILITY SUMMARY DATA

This view shed study (“**Study**”) will consider the views from the buildings and roads near the “**Solar Facility**” in order to ensure the views of the Solar Facility are minimized through the use of existing natural barriers and topography and any proposed screening to be added.

The proposed Solar Facility will be located on the following site (“**Facility Site**”).

<b>Address:</b>	Dryden Road
<b>State:</b>	New York
<b>Town:</b>	Dryden
<b>County:</b>	Tompkins
<b>Tax ID:</b>	47.-1-7.3
<b>Acres:</b>	Total: 113.78
<b>Latitude, Longitude:</b>	42.489873, -76.309275

*Table 1: Site Summary*

### 1.1. Location

The Facility Site for the proposed Solar Facility is located south of Dryden Road, north of Ferguson Road, east of Irish Settlement and west of Hilton Road.



Figure 1: Facility Site



Figure 2: Facility Site

## 1.2. Nearest Residential Structures

There are some residential structures near the Facility Site that may have direct visual contact of the Solar Facility. Some of these residential structures have existing vegetation that would impede views of the Solar Facility and others may require screening to impede the views. The residential structures with direct visual contact of the Solar Facility are indicated below

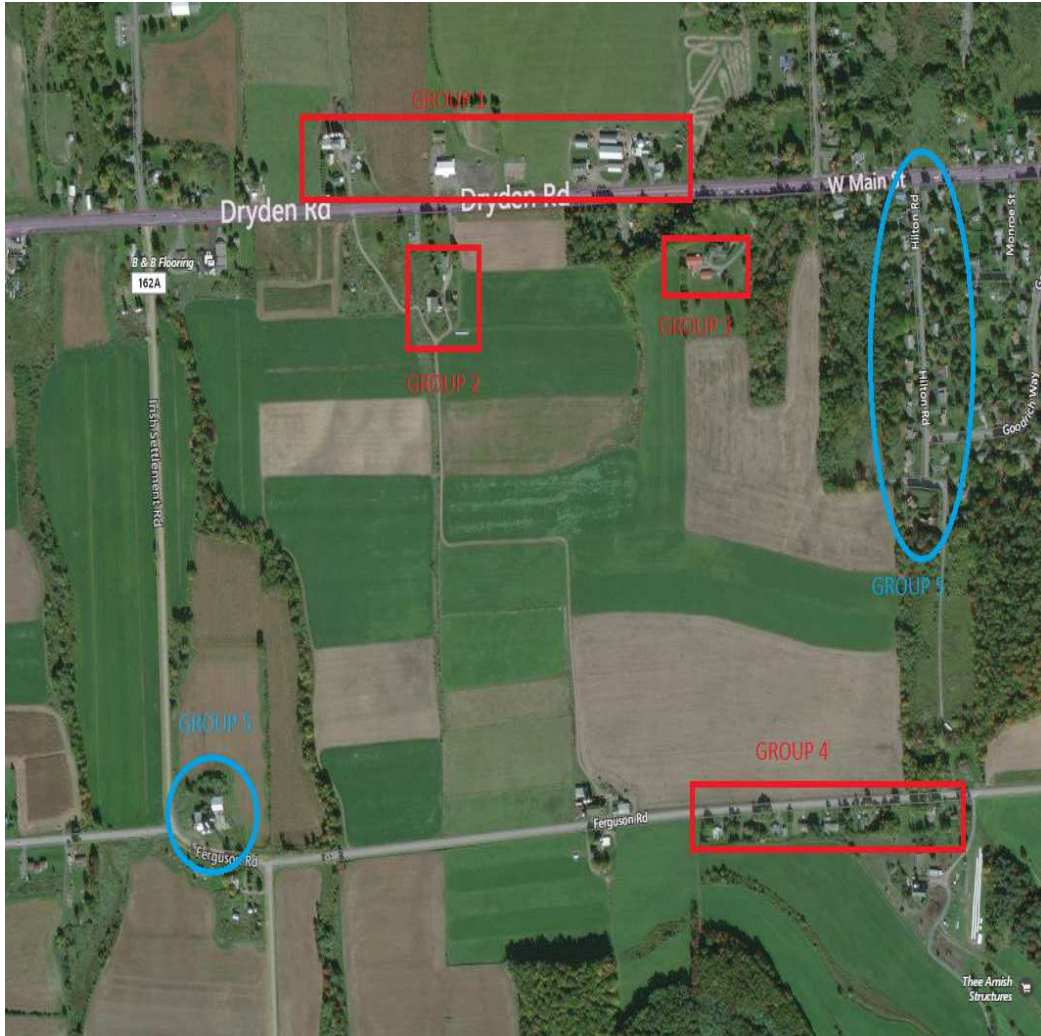


Figure 3: Nearby Residential Structures with Views the of the proposed Solar Facility

Group 1: This group is located on the north side of the Facility north of Dryden Road and has direct visual contact with the Solar Facility.

- There is minimal existing vegetation to impede the view of the Solar Facility.
- At the closet residence the distance to the Solar Facility is 2,710 feet
- Screening should be considered either along Dryden Road or along the north perimeter of the Solar Facility to minimize views.

Group 2: This group is located north west of the Solar Facility on the south side of Dryden Road and has direct visual contact with the Solar Facility. There is minimal existing vegetation to impede the view of the Solar Facility. This group of structures is owned by the landowner that is leasing the Facility Site to the Solar Facility.

- At the closet residence the distance to the Solar Facility is 2,224 feet
- Screening should be considered along the north perimeter of the Solar Facility to minimize views.

Group 3: This group is located north east of the Solar Facility on the south side of Dryden Road and has direct visual contact with the Solar Facility.

- There is minimal existing vegetation to impede the view of the Solar Facility.
- At the closet residence the distance to the Solar Facility is 2,746 feet
- Screening should be considered along the north perimeter of the Solar Facility to minimize views.

Group 4: This group is located south east of the Solar Facility on the south side of Ferguson Road and has direct visual contact with the Solar Facility.

- There is minimal existing vegetation to impede the view of the Solar Facility.
- At the closet residence the distance to the Solar Facility is 1,417 feet
- Screening should be considered along the east perimeter of the Solar Facility to minimize views.

Group 5: These groups are located south east and north east of the Solar Facility and have limited direct visual contact with the Solar Facility due to existing natural barriers.

- At the closet residence the distance to the Solar Facility is 3,077 feet for the residences north east of the Solar Facility and 1,373 feet for the residences on the south west of the Solar Facility
- Screening may be considered however the distance and existing natural barriers currently minimize views of the Solar Facility.

### 1.3. Road Side Views

Dryden Road: Dryden Road runs along the north side of the Solar Facility. There is some existing natural vegetation, along with some residences, that will impede the views of the Solar Facility from certain portions of Dryden Road. For the portion of Dryden Road immediately to the north of the Solar Facility the screening proposed along the north perimeter of the Solar Facility to minimize views to residential groups 1, 2 and 3 above will also minimize views from those traveling along Dryden Road immediately north of the Facility Site.

Ferguson Road: Ferguson Road runs along the south side of the Solar Facility. There is some existing natural vegetation, along with some structures, that will impede the views of the Solar Facility from certain portions of Ferguson Road. The screening proposed along the east perimeter of the Solar Facility to minimize views to residential groups 3 and 4 above will also minimize views for those traveling west along Ferguson Road. Along the portion of Ferguson Road immediately south of the Solar Facility it is proposed that screening should be considered along the road as the Solar Facility is lower in elevation than Ferguson Road and placement of screening near Ferguson Road would minimize views of the Solar Facility.

Hilton Road: Hilton Road runs along the east side of the Solar Facility. There is existing vegetation, along with some structures, that will impede the views of the Solar Facility. The screening proposed along the east perimeter of the Solar Facility to minimize views to residential groups 3 and 4 above will also impede the views of the Solar Facility from Hilton Road.

Irish Settlement Road: Irish Settlement Road runs along the west side of the Solar Facility. There is existing vegetation, along with some structures, that will impede the views of the Solar Facility from Irish Settlement Road. It is not expected that screening will be required on the west side of the Solar Facility as the distance from Irish Settlement Road and natural screening will minimize views of the Solar Facility.

### 1.4. Proposed Vegetative Screening

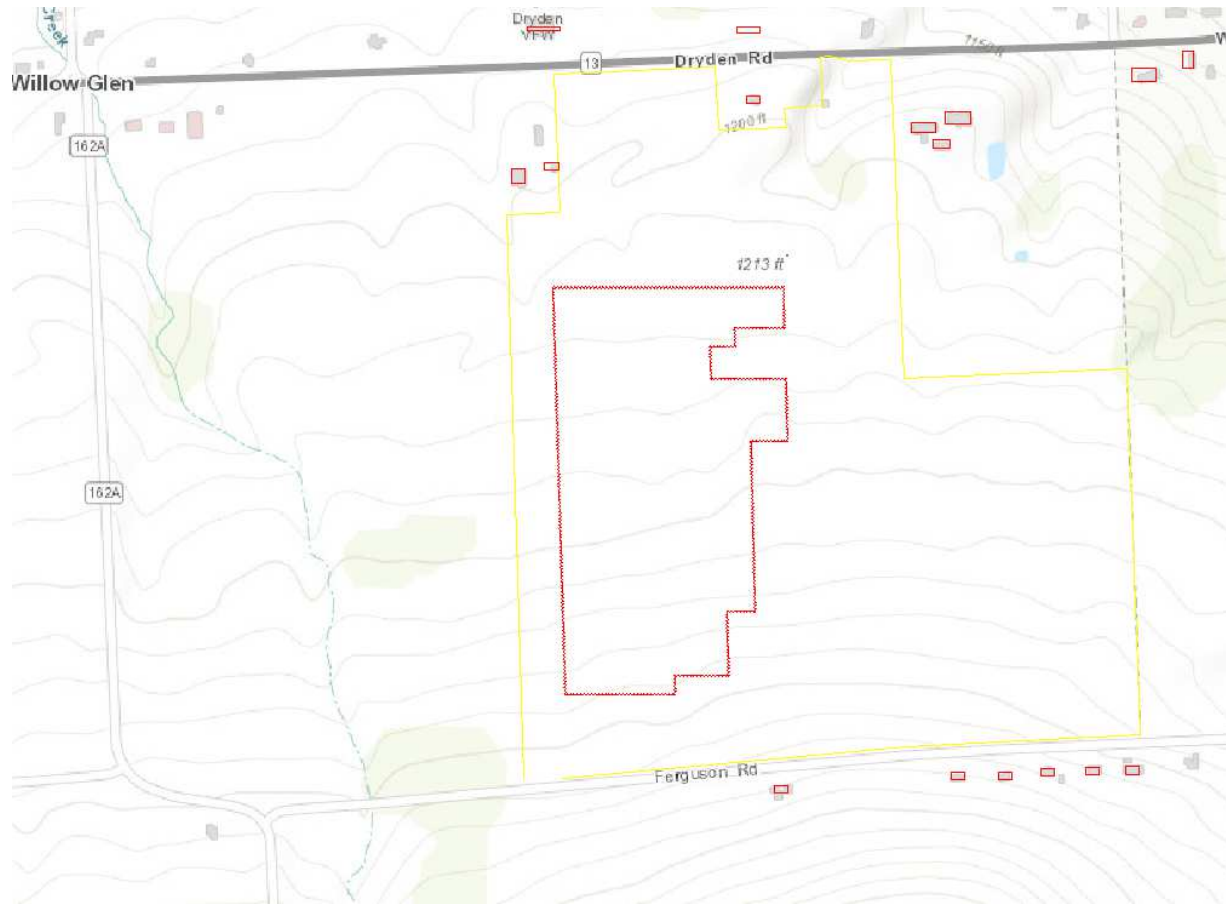
Where necessary, screening of the Solar Facility shall include a naturalized mix of indigenous trees spaced in a design to minimize views of the Solar Facility year round.

Proposed Plants for Screening

ABREVIATURE	BOTANICAL NAME	COMMON NAME	SIZE
PG	Picea Pungens	Colorado White Spruce	15'-20' ft.
WP	Pinus Strobus	Eastern White Pine	15'-20' ft.
PA	Picea Abies	Norway Spruce	15'-20' ft.



## 2. SITE TOPOGRAPHY



*Figure 4. Solar Facility Contour and Orography*

### 3. VIEWSHED GRAPHICS

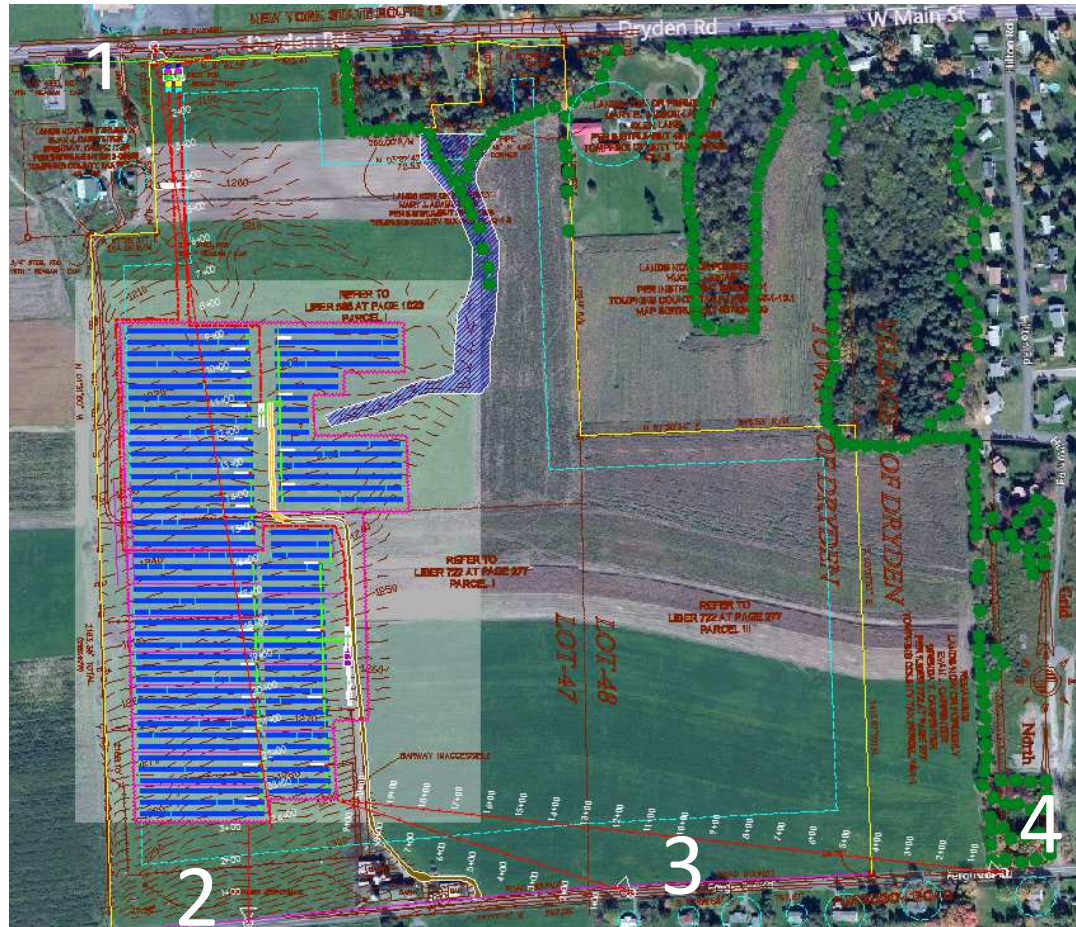
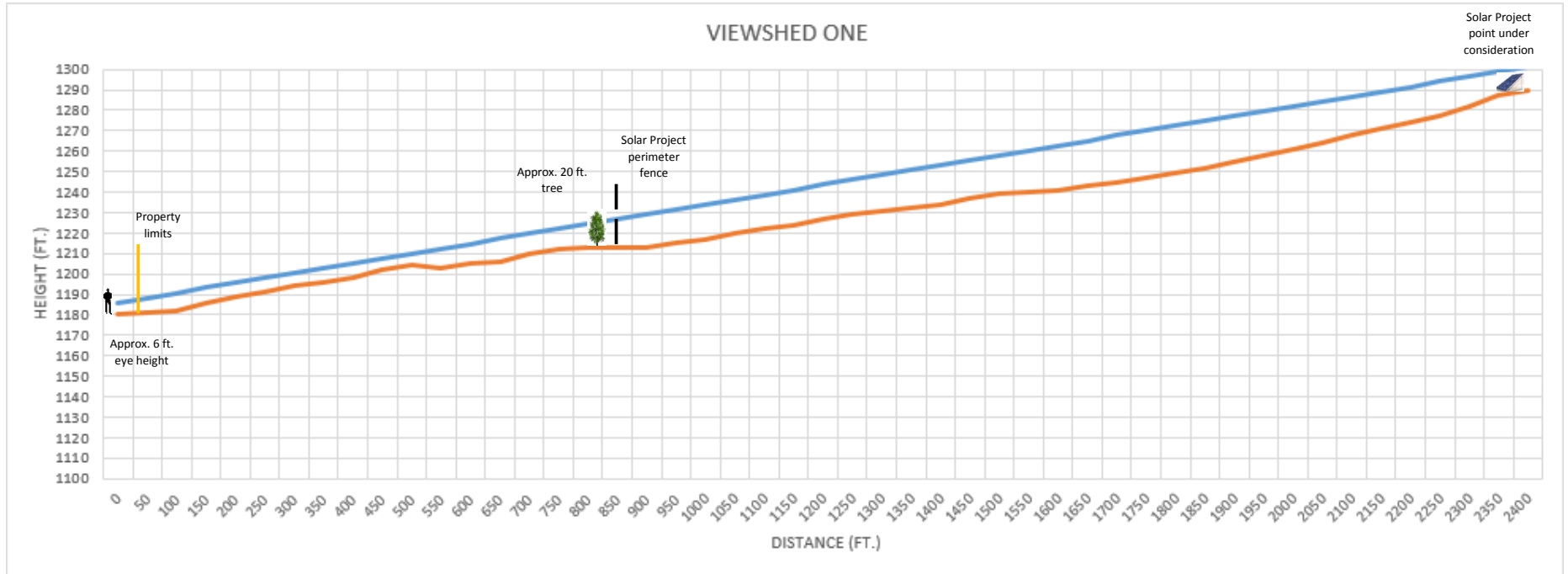
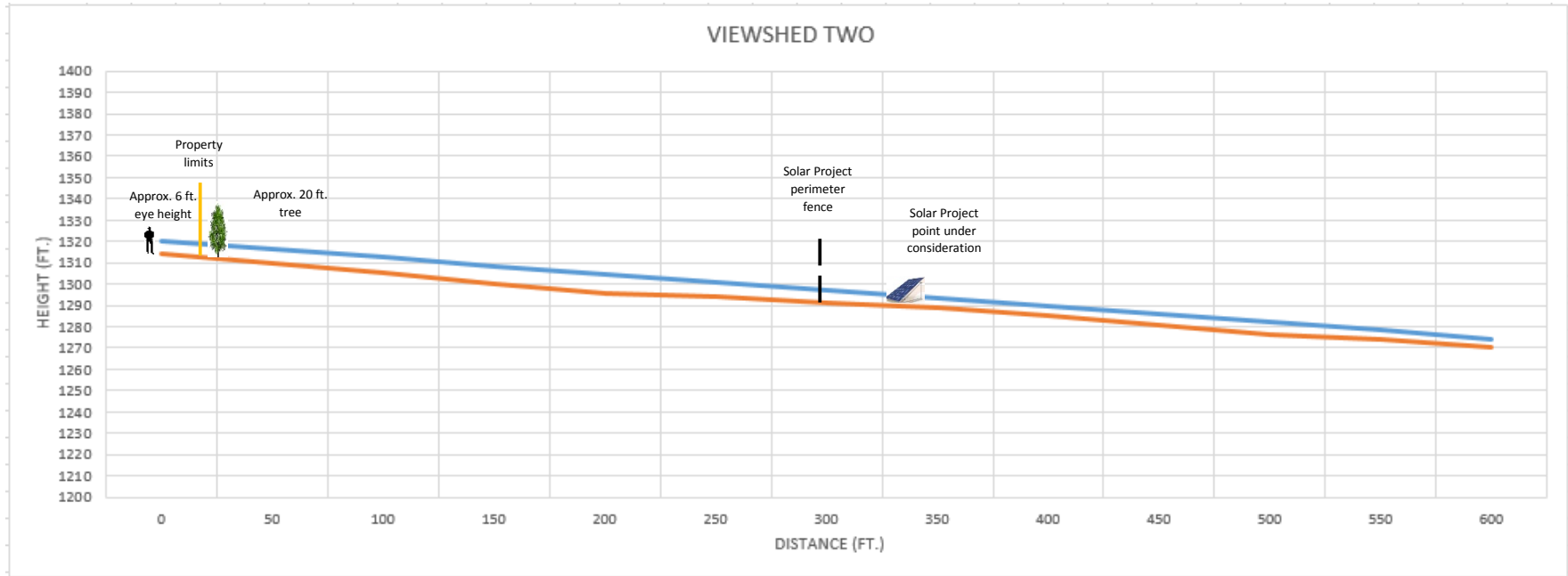


Figure 5: Viewsheds Under Study

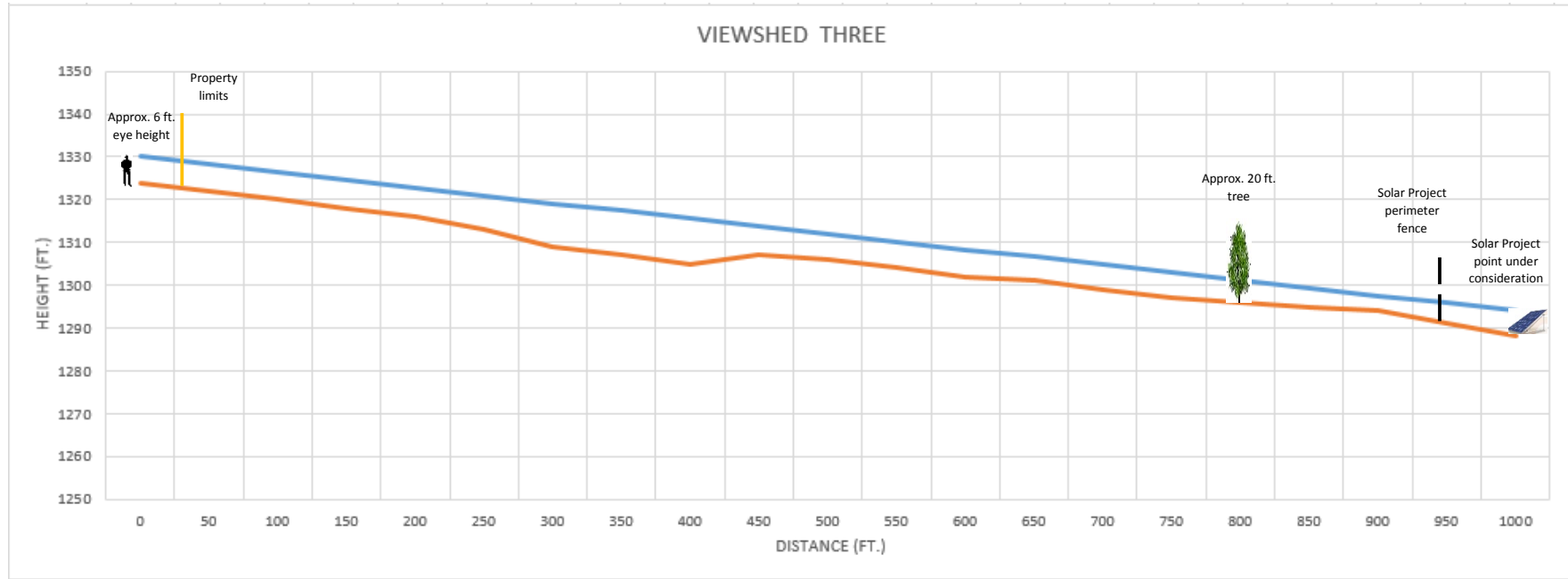


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
<b>Distance</b>	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
<b>Height</b>	1180	1181	1182	1186	1189	1191	1194	1196	1198	1202	1204	1203	1205	1206	1210	1212	1213	1213	1213	1215	1217	1220	1222	1224	1227	1229	1231	1232	1234	1237	1239	1240	1241	1243	1245	1247	1249	1252	1255	1258	1261	1264	1268	1271	1274	1277	1282	1287	1290

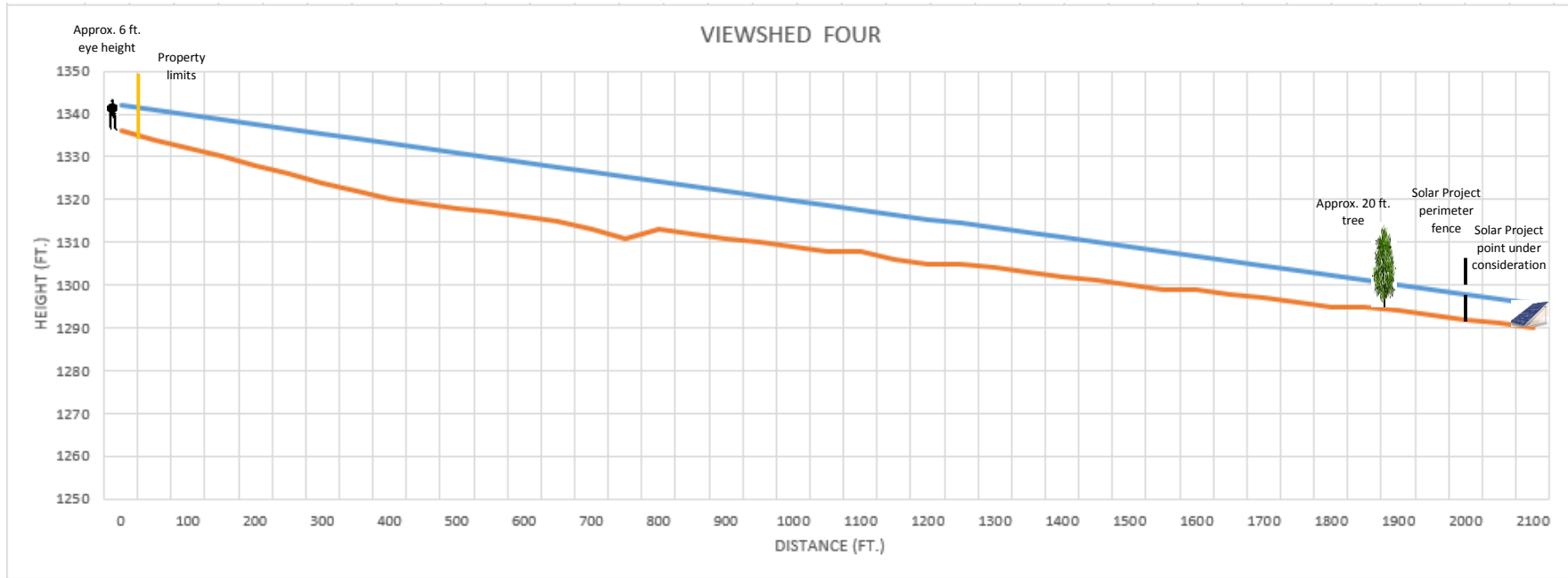
VIEWSHED TWO



	1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Distance</b>	0	50	100	150	200	250	300	350	400	450	500	550	600
<b>Height</b>	1314	1310	1305	1300	1296	1294	1291	1289	1285	1281	1276	1274	1270



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<b>Distance</b>	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
<b>Height</b>	1324	1322	1320	1318	1316	1313	1309	1307	1305	1307	1306	1304	1302	1301	1299	1297	1296	1295	1294	1291	1288



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	32	33	34	35	36	37	38	39	40	41	42	43	44	
<b>Distance</b>	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	
<b>Height</b>	1336	1334	1332	1330	1328	1326	1324	1322	1320	1319	1318	1317	1316	1315	1313	1311	1313	1312	1311	1310	1309	1308	1308	1306	1305	1305	1304	1303	1302	1301	1300	1299	1299	1298	1298	1297	1296	1295	1295	1294	1293	1292	1291	1290

## 4. SUMMARY

The proposed screening of the Solar Facility is set forth in Figure 6 below. Please note:

- The proposed screening is intended to minimize views of the Solar Facility to nearby residences and roads, however, will not eliminate all views of the Solar Facility.
- There is adequate areas and space to plant the proposed additional vegetation.
- The proposed vegetation may be of different height as considered in accordance with the elevation profile graphs.

## 5. PROPOSED SCREENING

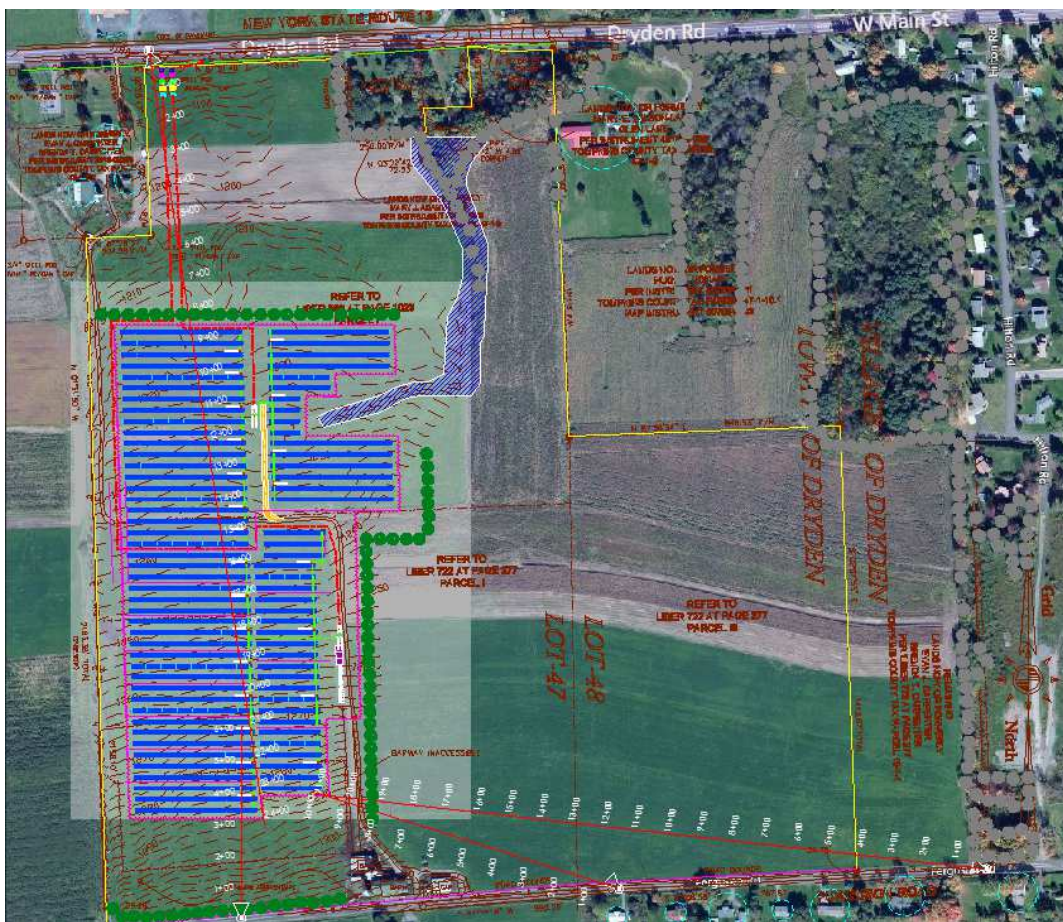


Figure 6: Proposed Screening of the Solar Facility

NOTE: The appropriate areas are based on this preliminary study. Therefore, they may be subject to changes and future modifications when additional topographic studies are carried out.