

APPENDIX C

VISUAL SIMULATIONS

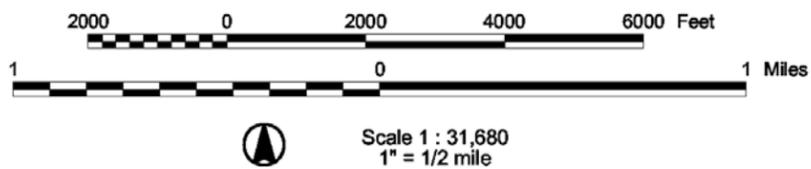


I.0 VISUAL SIMULATIONS

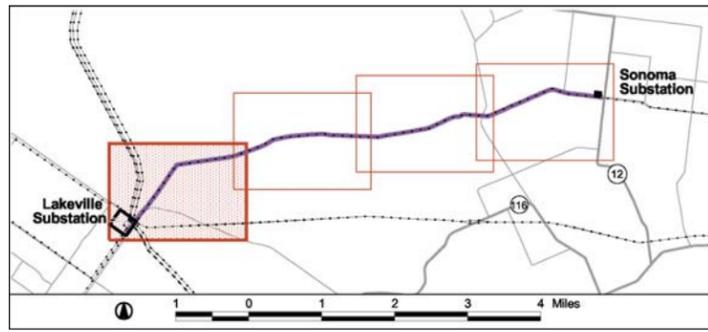
These computer-generated visual simulations of key observation points along the proposed transmission line route were produced by EDAW, Inc. and Field of Vision using the methodology described in Chapter 15 Visual Resources. The visual simulations are based on preliminary engineering, which is subject to change as a result of the CPUC permit process, final engineering, and any necessary adjustments during construction.



Source: AirPhotoUSA (April 2002) / PG&E / EDAW, Inc. 2004



Key Observation Points (KOP) for Visual Simulations



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 1 - Existing View

View looking south at Lakeville Substation along Adobe Road

Date of Photograph: 10/29/03

Time: 11:30 am

Arrows indicate pole/equipment locations



Source: Field of Vision, 2004

Visual Assessment Summary:

- Foreground view (substation is approximately 1/4-mile away from viewpoint location).
- Low contrast with existing landscape (taller poles and small amount of new substation equipment blend in with existing facilities in utility corridor).
- Compared to the existing transmission line, three additional poles will be “skylined” (extend above horizon line), but they will blend in with existing poles.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 1 - Visual Simulation

View looking south at Lakeville Substation along Adobe Road

Date of Photograph: 10/29/03

Time: 11:30 am



Magnified view represents real-world scale if page is held 10" from eye

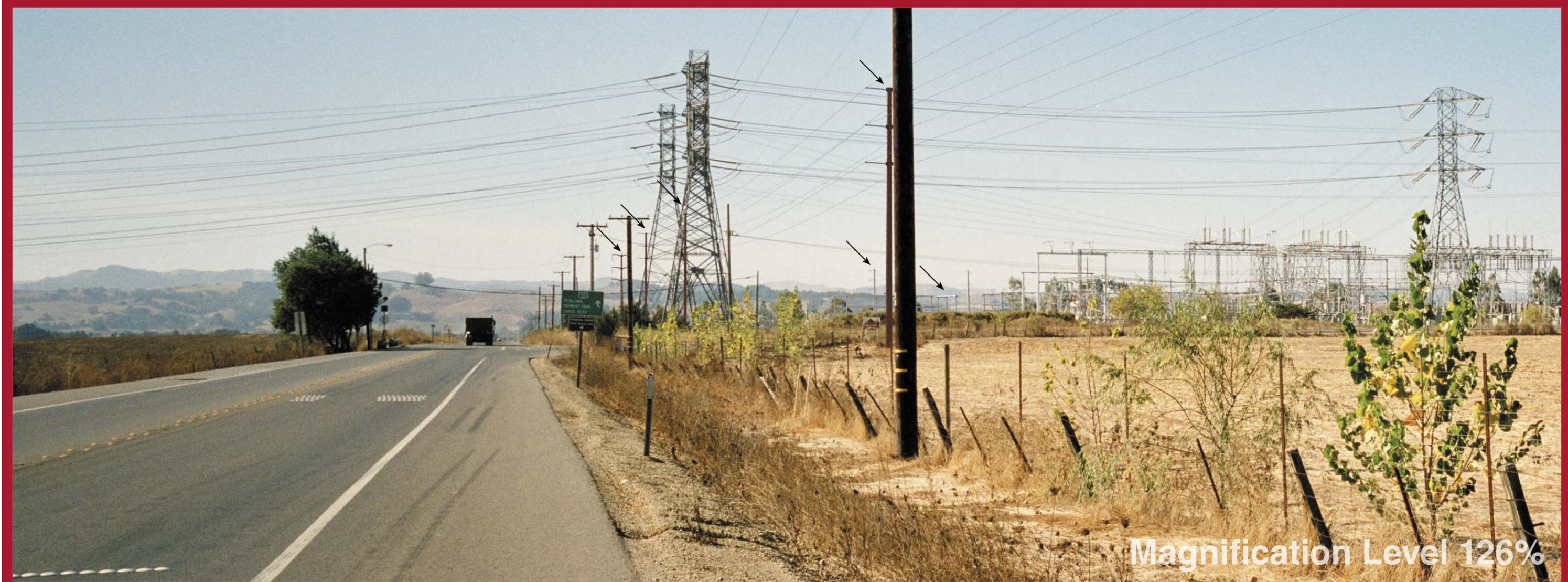
Source: Field of Vision, 2004

KOP 1 - Existing View - Magnified
View looking south at Lakeville Substation along Adobe Road

For standard view, please refer to page C-2 of Appendix C



Arrows indicate pole/equipment locations



Magnified view represents real-world scale if page is held 10" from eye

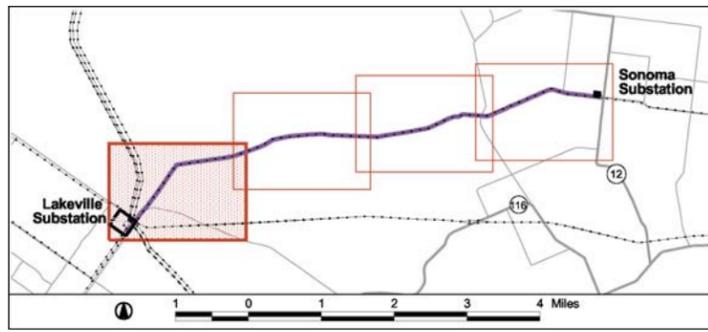
Source: Field of Vision, 2004

Visual Assessment Summary:

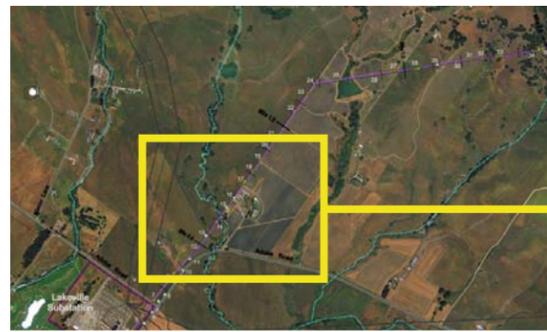
- Foreground view (substation is approximately 1/4-mile away from viewpoint location).
- Low contrast with existing landscape (taller poles and small amount of new substation equipment blend in with existing facilities in utility corridor).
- Compared to the existing transmission line, three additional poles will be "skylined" (extend above horizon line), but they will blend in with existing poles.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 1 - Visual Simulation - Magnified
View looking south at Lakeville Substation along Adobe Road

For standard view, please refer to page C-3 of Appendix C



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 2 - Existing View

View looking north at Segment 1 along Adobe Road

Date of Photograph: 10/29/03

Time: 11:37 am



Source: Field of Vision, 2004

Visual Assessment Summary:

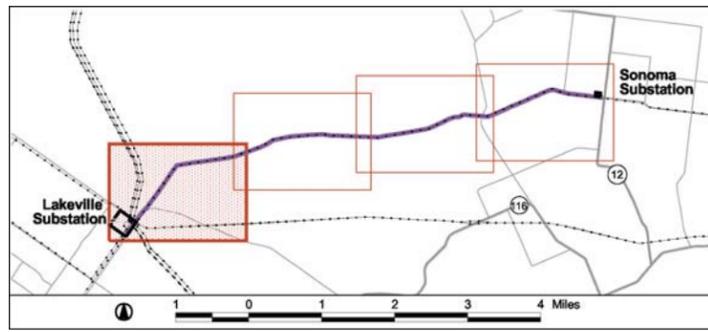
- Foreground to background view.
- Brown tubular steel poles are somewhat more visible than existing wood poles, but they begin to blend into hillside backdrop after the third pole. Only one additional pole will be “skylined” (extend above horizon line).
- Moderate contrast with existing landscape, as there are existing transmission and distribution lines in utility corridor.
- Heavily vegetated Sonoma Mountains are dominant feature in the landscape and provide backdrop to screen transmission line. Motorists have a short duration view before road turns east.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 2 - Visual Simulation

View looking north at Segment 1 along Adobe Road

Date of Photograph: 10/29/03

Time: 11:37 am



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 3 - Existing View

View looking northeast at Segment 1 from entrance to Petaluma Adobe State Park

Date of Photograph: 11/25/03

Arrows indicate pole locations



Source: Field of Vision, 2004

Visual Assessment Summary:

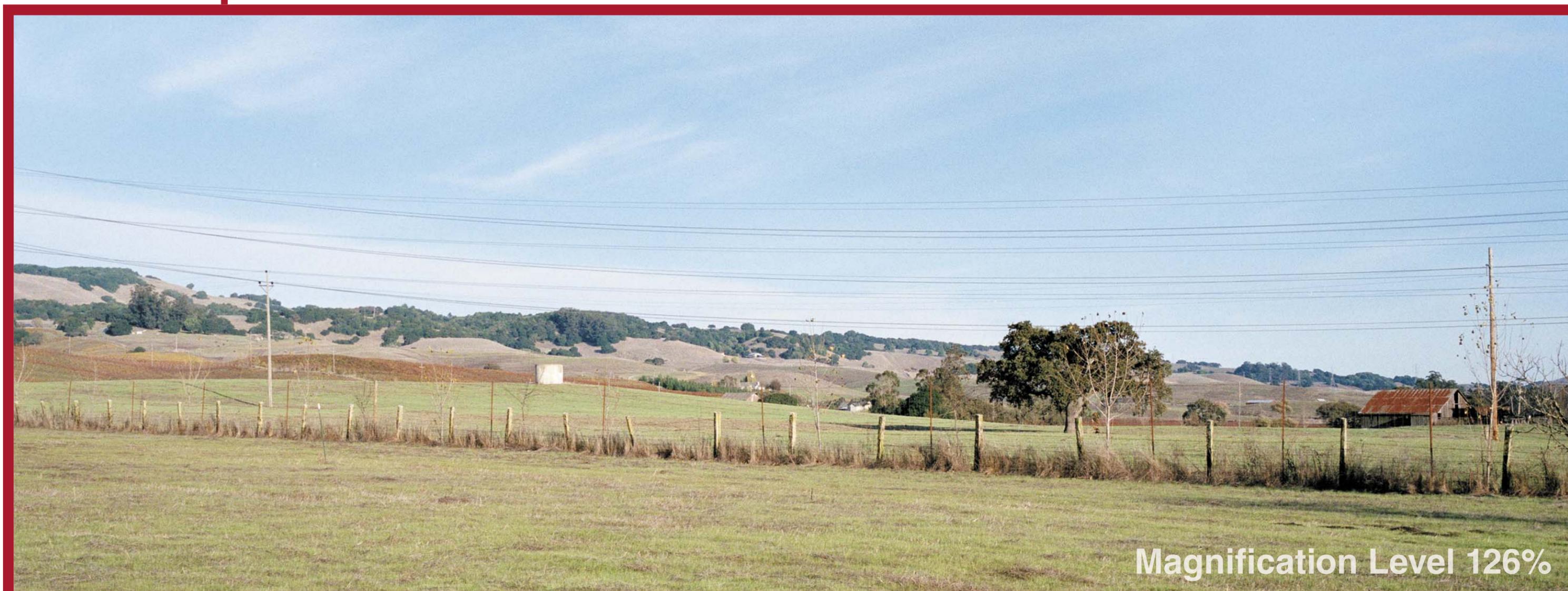
- Middleground to background view [closest poles are over 1/4-mile (approx. 1,675 feet) away from viewpoint].
- Relatively low number of viewers.
- Only one additional pole will be skylined above the horizon, and it will be lower than the wood distribution pole in front of it. Heavily vegetated Sonoma Mountains are dominant feature in the landscape and provide backdrop to screen transmission line. Low contrast with existing landscape, as there are existing transmission and distribution lines in utility corridor. Minor incremental change related to installing taller poles and "topping" (shortening) existing distribution poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 3 - Visual Simulation

View looking northeast at Segment 1 from entrance to Petaluma Adobe State Park

Date of Photograph: 11/25/03

Time: 3:15 pm

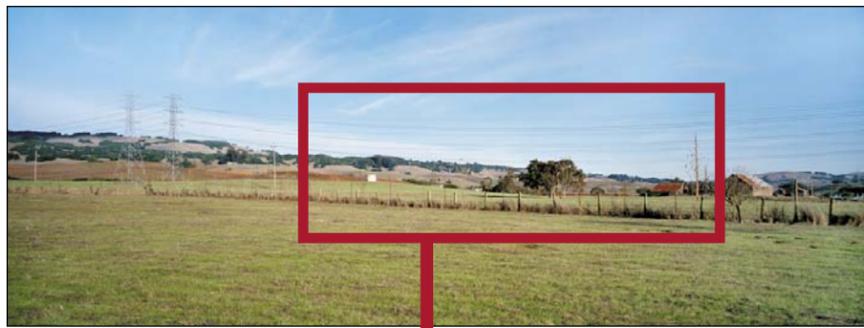


Magnified view represents real-world scale if page is held 10" from eye

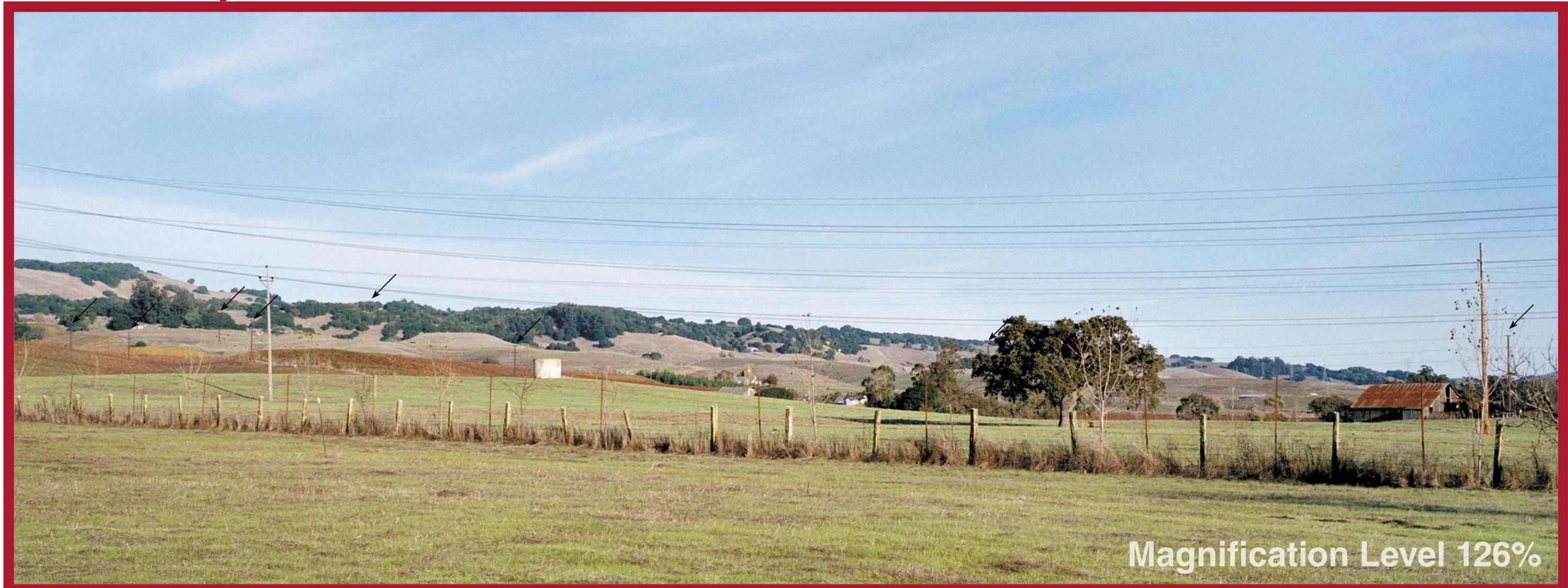
Source: Field of Vision, 2004

KOP 3 - Existing View - Magnified

View looking northeast at Segment 1 from entrance to Petaluma Adobe State Park



Arrows indicate pole locations



Magnified view represents real-world scale if page is held 10" from eye

Source: Field of Vision, 2004

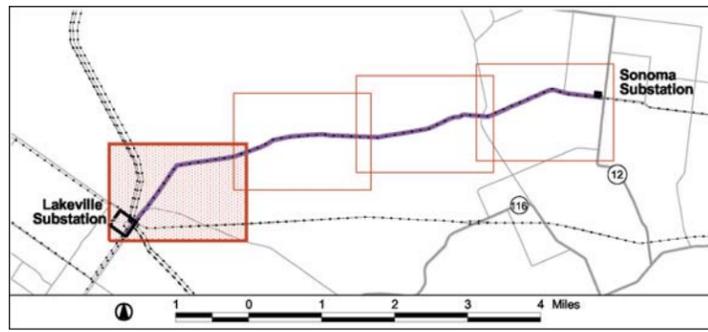
Visual Assessment Summary:

- Middleground to background view [closest poles are over 1/4-mile (approx. 1,675 feet) away from viewpoint].
- Relatively low number of viewers.
- Only one additional pole will be skylined above the horizon, and it will be lower than the wood distribution pole in front of it. Heavily vegetated Sonoma Mountains are dominant feature in the landscape and provide backdrop to screen transmission line. Low contrast with existing landscape, as there are existing transmission and distribution lines in utility corridor. Minor incremental change related to installing taller poles and "topping" (shortening) existing distribution poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 3 - Visual Simulation - Magnified

View looking northeast at Segment 1 from entrance to Petaluma Adobe State Park

For standard view, please refer to page C-9 of Appendix C



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 4 - Existing View

View looking east at Segment 1 from vineyard west of the line

Date of Photograph: 11/17/03

Time: 10:30 am



Source: Field of Vision, 2004

Visual Assessment Summary:

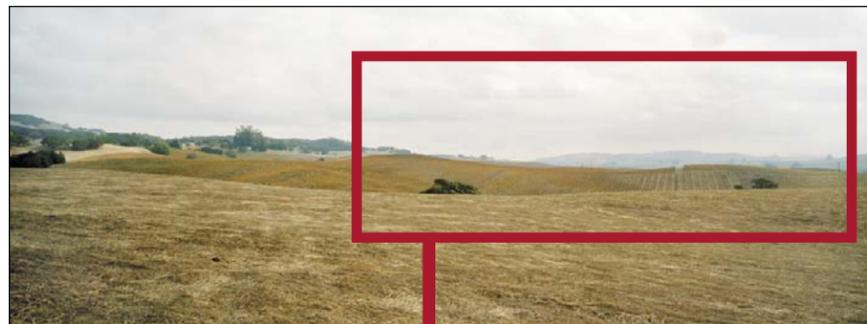
- Middleground to background view (closest poles are approx. 2,293 feet away from viewpoint).
- Two poles will be barely skylined above the horizon.
- Low contrast with existing landscape, as the poles are set back in the viewshed and the expansive stretch of vineyard, rolling hills and trees in the foreground, as well as heavily vegetated hills in the background, are the prominent features in landscape.
- Minor incremental change related to installing taller poles.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 4 - Visual Simulation

View looking east at Segment 1 from vineyard west of the line

Date of Photograph: 11/17/03

Time: 3:15 pm



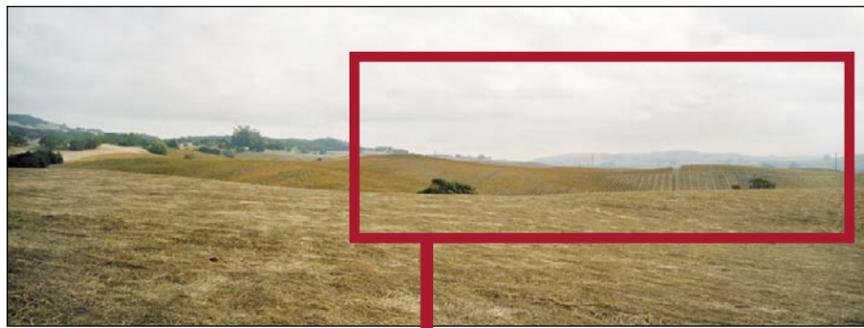
Magnified view represents real-world scale if page is held 10" from eye

Source: Field of Vision, 2004

KOP 4 - Existing View - Magnified

View looking east at Segment 1 from vineyard west of the line

For standard view, please refer to page C-12 of Appendix C



Magnified view represents real-world scale if page is held 10" from eye

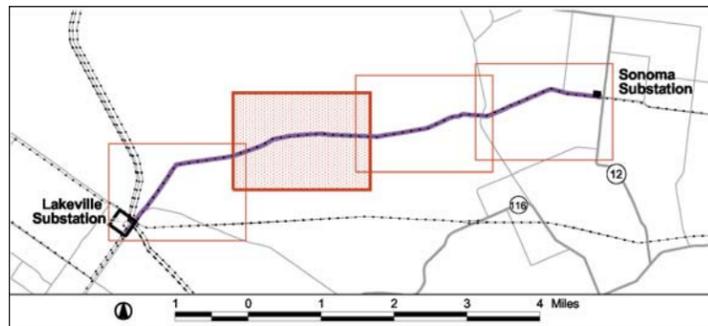
Source: Field of Vision, 2004

Visual Assessment Summary:

- Middleground to background view (closest poles are approx. 2,293 feet away from viewpoint).
- Two poles will be barely skylined above the horizon.
- Low contrast with existing landscape, as the poles are set back in the viewshed and the expansive stretch of vineyard, rolling hills and trees in the foreground, as well as heavily vegetated hills in the background, are the prominent features in landscape.
- Minor incremental change related to installing taller poles.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 4 - Visual Simulation - Magnified
View looking east at Segment 1 from vineyard west of the line

For standard view, please refer to page C-13 of Appendix C



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 5 - Existing View

View looking southeast at Segment 1 from hillside north of the line

Date of Photograph: 10/29/03

Time: 2:35 pm



Source: Field of Vision, 2004

Visual Assessment Summary:

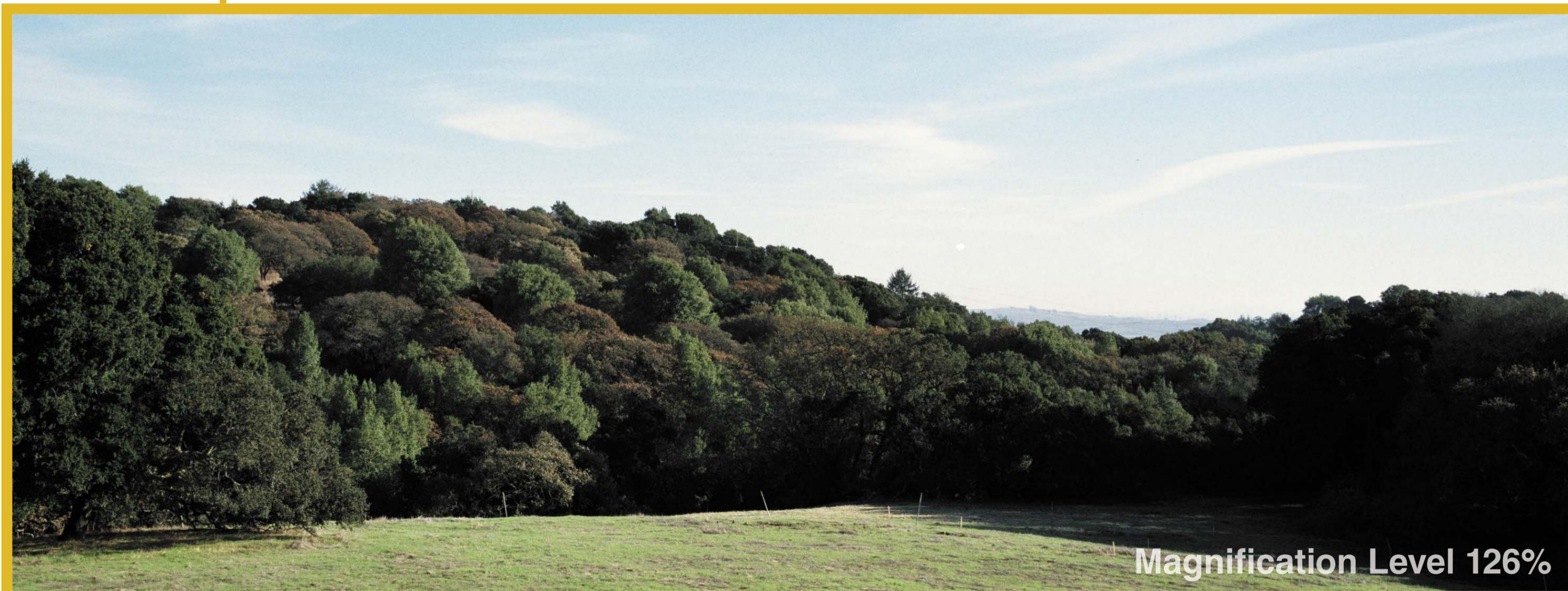
- Foreground view (pole is approx. 430 feet away from viewpoint).
- One pole will be skylined above the horizon (same as with the existing transmission line).
- Low contrast with existing landscape, heavy tree cover screens transmission line so only the top of one pole is visible.
- This site, like much of the land in this area, is in private ownership.
- There are few public views or public roads in this area.
- Minor incremental change related to installing taller poles.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 5 - Visual Simulation

View looking southeast at Segment 1 from hillside north of the line

Date of Photograph: 10/29/03

Time: 2:35 pm



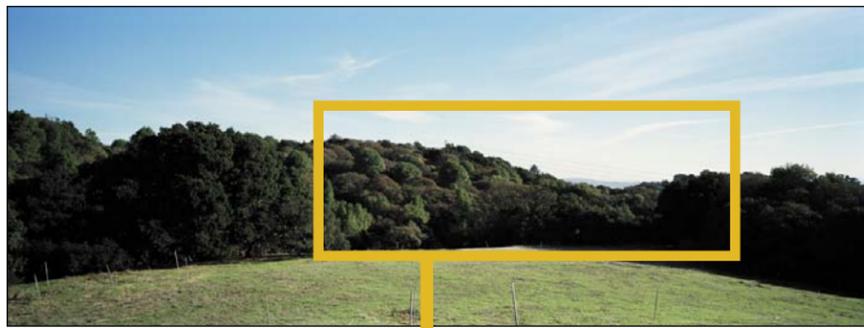
Magnified view represents real-world scale if page is held 10" from eye

Source: Field of Vision, 2004

KOP 5 - Existing View - Magnified

View looking southeast at Segment 1 from hillside north of the line

For standard view, please refer to page C-16 of Appendix C



Magnified view represents real-world scale if page is held 10" from eye

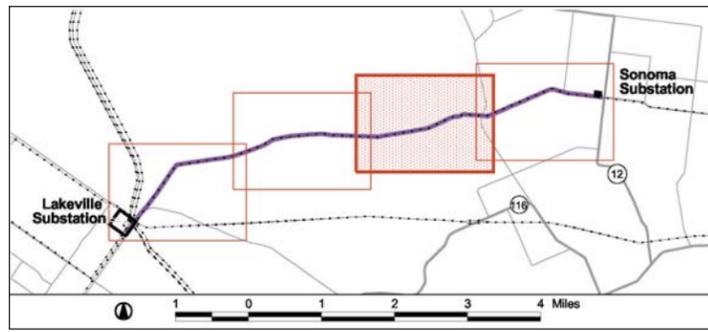
Source: Field of Vision, 2004

Visual Assessment Summary:

- Foreground view (pole is approx. 430 feet away from viewpoint).
- One pole will be skylined above the horizon (same as with the existing transmission line).
- Low contrast with existing landscape, heavy tree cover screens transmission line so only the top of one pole is visible.
- This site, like much of the land in this area, is in private ownership.
- There are few public views or public roads in this area.
- Minor incremental change related to installing taller poles.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 5 - Visual Simulation - Magnified
View looking southeast at Segment 1 from hillside north of the line

For standard view, please refer to page C-17 of Appendix C



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 6 - Existing View

View looking west at Segment 2 from Temelec residential development walkway

Date of Photograph: 11/17/03

Time: 11:00 am

Arrows indicate pole locations



Source: Field of Vision, 2004

Visual Assessment Summary:

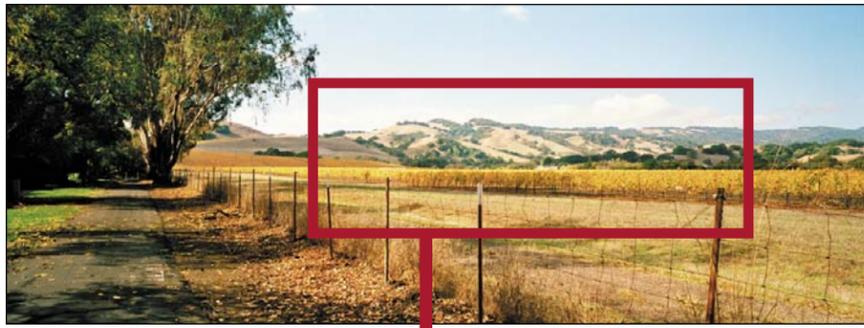
- Middleground to background view (poles shown are approx. 1/4 to 1-1/4 mile away from viewpoint).
- Two poles are “skylined” (extend above the horizon), but in the distance.
- Moderate contrast with existing landscape, as the brown tubular steel poles are somewhat more visible than the wood poles, but they are set back in the middleground - background of the viewshed. Expansive stretch of vineyard in foreground, dense tree cover along Felder Creek in middleground, and heavily vegetated hills in the background are the prominent features in the landscape. The rich variety of colors also adds to the complexity of the landscape.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 6 - Visual Simulation

View looking west at Segment 2 from Temelec residential development walkway

Date of Photograph: 11/17/03

Time: 11:00 am



Magnified view represents real-world scale if page is held 10" from eye

Source: Field of Vision, 2004

KOP 6 - Existing View - Magnified

View looking west at Segment 2 from Temelec residential development walkway



Magnified view represents real-world scale if page is held 10" from eye

Source: Field of Vision, 2004

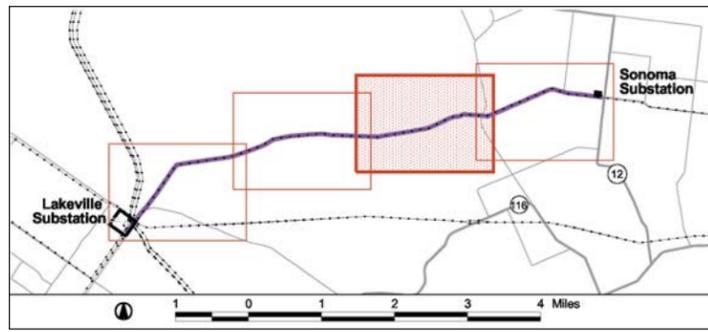
Visual Assessment Summary:

- Middleground to background view (poles shown are approx. 1/4 to 1-1/4 mile away from viewpoint).
- Two poles are "skylined" (extend above the horizon), but in the distance.
- Moderate contrast with existing landscape, as the brown tubular steel poles are somewhat more visible than the wood poles, but they are set back in the middleground - background of the viewshed. Expansive stretch of vineyard in foreground, dense tree cover along Felder Creek in middleground, and heavily vegetated hills in the background are the prominent features in the landscape. The rich variety of colors also adds to the complexity of the landscape.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 6 - Visual Simulation - Magnified

View looking west at Segment 2 from Temelec residential development walkway

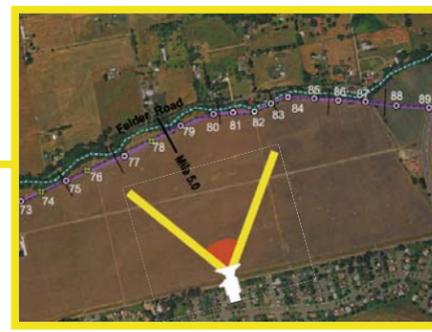
For standard view, please refer to page C-21 of Appendix C



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 7- Existing View

View looking north at Segment 2 from Temelec residential development walkway

Date of Photograph: 11/17/03

Time: 11:00 am



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC.

Source: Field of Vision, 2004

Visual Assessment Summary:

- Middleground view (poles are approx. 1/4 mile away from viewpoint).
- Two poles are barely "skylined" above the horizon.
- Moderate contrast with existing landscape, as the brown tubular steel poles are somewhat more visible than the wood poles, but they are set back in the middleground of the viewshed. Expansive stretch of vineyard in foreground, tree cover along Felder Creek in middleground, and heavily vegetated hills in the background are the prominent features in the landscape. The rich variety of colors also adds to the complexity of the landscape. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 7 - Visual Simulation

View looking north at Segment 2 from Temelec residential development walkway

Date of Photograph: 11/17/03
Time: 11:00 am



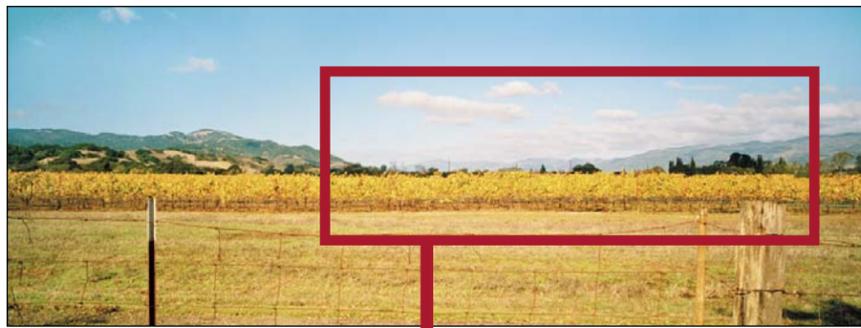
Magnified view represents real-world scale if page is held 10" from eye

Source: Field of Vision, 2004

KOP 7 - Existing View - Magnified

View looking north at Segment 2 from edge of Temelec residential development

For standard view, please refer to page C-24 of Appendix C



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC. Magnified view represents real-world scale if page is held 10" from eye.

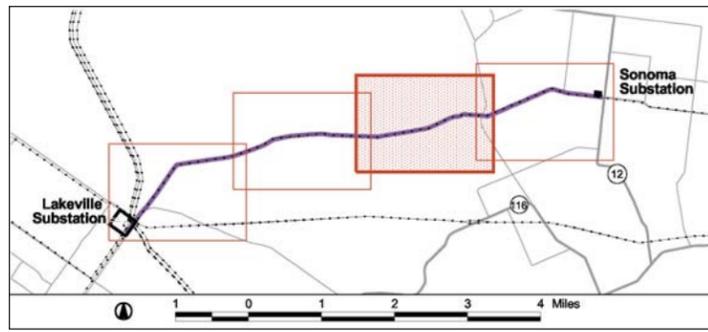
Source: Field of Vision, 2004

Visual Assessment Summary:

- Middleground view (poles are approx. 1/4 mile away from viewpoint).
- Two poles are barely "skylined" above the horizon.
- Moderate contrast with existing landscape, as the brown tubular steel poles are somewhat more visible than the wood poles, but they are set back in the middleground of the viewshed. Expansive stretch of vineyard in foreground, tree cover along Felder Creek in middleground, and heavily vegetated hills in the background are the prominent features in the landscape. The rich variety of colors also adds to the complexity of the landscape. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 7 - Visual Simulation - Magnified
View looking north at Segment 2 from Temelec residential development walkway

For standard view, please refer to page C-25 of Appendix C



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 8 - Existing View

View looking east at Segment 2 from edge of Temelec residential development

Date of Photograph: 11/17/03

Time: 11:00

Arrows indicate pole locations



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC.

Source: Field of Vision, 2004

Visual Assessment Summary:

- Middleground view (closest poles are approx. 1/3 mile away from viewpoint).
- No poles are "skylined" above the horizon.
- Moderate contrast with existing landscape, as the brown tubular steel poles are somewhat more visible than the wood poles, but they are set back in the middleground of the viewshed. Expansive stretch of vineyard in foreground, dense tree cover along Felder Creek in middleground, and heavily vegetated hills in the background are the prominent features in the landscape. The variety of colors also adds to complexity of the landscape. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 8 - Visual Simulation

View looking east at Segment 2 from edge of Temelec residential development

Date of Photograph: 11/17/03
Time: 11:00 am



Magnified view represents real-world scale if page is held 10" from eye

Source: Field of Vision, 2004

KOP 8 - Existing View - Magnified

View looking east at Segment 2 from edge of Temelec residential development

For standard view, please refer to page C-28 of Appendix C



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC. Magnified view represents real-world scale if page is held 10" from eye.

Source: Field of Vision, 2004

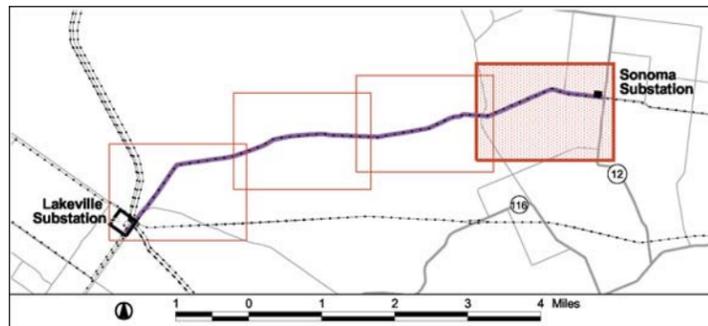
Visual Assessment Summary:

- Middleground view (closest poles are approx. 1/3 mile away from viewpoint).
- No poles are "skylined" above the horizon.
- Moderate contrast with existing landscape, as the brown tubular steel poles are somewhat more visible than the wood poles, but they are set back in the middleground of the viewshed. Expansive stretch of vineyard in foreground, dense tree cover along Felder Creek in middleground, and heavily vegetated hills in the background are the prominent features in the landscape. The variety of colors also adds to complexity of the landscape. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 8 - Visual Simulation - Magnified

View looking east at Segment 2 from edge of Temelec residential development

For standard view, please refer to page C-29 of Appendix C



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 9 - Existing View

View looking east at Segment 17 along Leveroni Road

Date of Photograph: 11/17/03

Time: 11:30 am



Source: Field of Vision, 2004

Visual Assessment Summary:

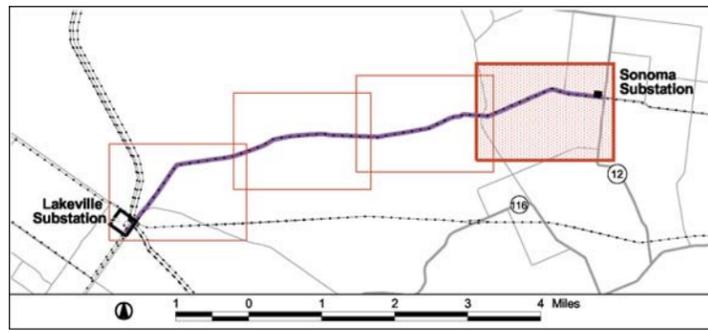
- Foreground view.
- Two additional poles will be “skylined” above the horizon (one just barely).
- Moderate contrast with existing landscape, as the taller poles and extra sidearms for the new circuit are somewhat more prominent than the existing poles when seen against the sky. Expansive stretch of vineyards in foreground, dense tree cover along Sonoma Creek in middleground, and heavily vegetated hills in the background are equally prominent features in the landscape. Motorists are accustomed to driving this road looking down the site line at existing poles. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 9 - Visual Simulation

View looking east at Segment 17 along Leveroni Road

Date of Photograph: 11/17/03

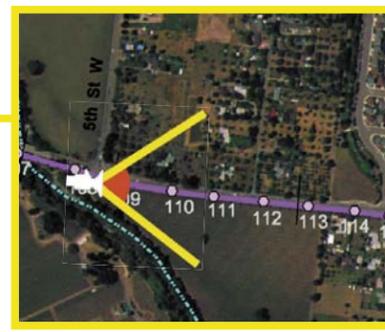
Time: 11:30 am



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 10 - Existing View

View looking east at Segment 17 along Leveroni Road

Date of Photograph: 10/29/03

Time: 2:26 pm



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC.

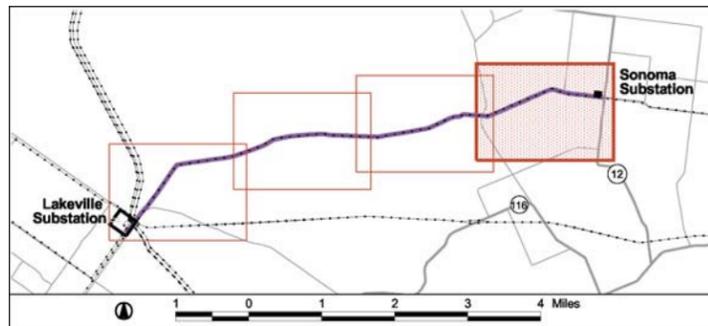
Source: Field of Vision, 2004

Visual Assessment Summary:

- Foreground view.
- Only additional pole will be “skylined” above the horizon.
- Moderate contrast with existing landscape, as the taller poles and extra sidearms for the new circuit are somewhat more prominent than the existing poles when seen against the sky. The vineyard and tall dense tree cover in foreground and middleground are equally prominent features in the landscape. Existing transmission line is already a prominent visual feature in existing view. Motorists are accustomed to driving this road looking down the site line at existing poles. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 10 - Visual Simulation
View looking east at Segment 17 along Leveroni Road

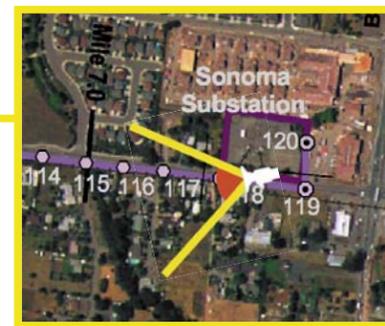
Date of Photograph: 10/29/03
Time: 2:26 pm



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 11 - Existing View

View looking west at Segment 17 along Leveroni Road

Date of Photograph: 10/29/03

Time: 1:48 pm



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC.

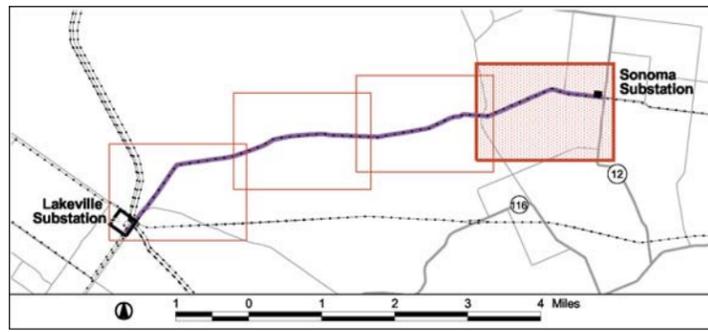
Source: Field of Vision, 2004

Visual Assessment Summary:

- Foreground view. Three additional poles will be “skylined” above the horizon (one just barely).
- Moderate contrast with existing landscape, as the taller poles and extra sidearms for the new circuit are somewhat more prominent than the existing poles when seen against the sky. Residences, fences, and dense tree cover in foreground and middleground are equally prominent features in the landscape. Existing transmission line is already a prominent visual feature in existing view. Motorists are accustomed to driving this road looking down the site line at existing poles. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 11 - Visual Simulation
View looking west at Segment 17 along Leveroni Road

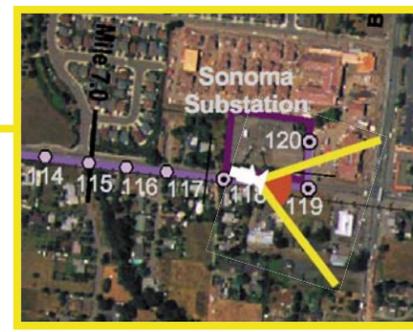
Date of Photograph: 10/29/03
Time: 1:48 pm



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 12 - Existing View

View looking east at Segment 17 along Leveroni Road

Date of Photograph: 10/29/03

Time: 1:41 pm



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC.

Source: Field of Vision, 2004

Visual Assessment Summary:

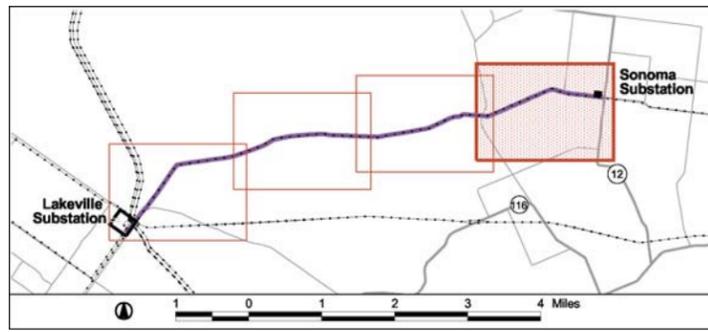
- Foreground view.
- Replacement pole, like existing pole, is “skylined” above the horizon.
- Installation of taller pole creates only minor incremental change.
- Low contrast with existing landscape, as the existing wood pole is visible and there are other existing distribution and transmission lines in the viewshed. Trees in foreground create visual texture.
- Project will not substantially degrade existing visual quality or character of the site and its surroundings.
- Less than significant visual impact.

KOP 12 - Visual Simulation

View looking east at Segment 17 along Leveroni Road

Date of Photograph: 10/29/03

Time: 1:41 pm



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 13 - Existing View

View looking south at Segment 17 from intersection of Fryer Creek Rd. and Todd St. (in residential subdivision)

Date of Photograph: 11/17/03

Time: 3:49 pm



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC.

Source: Field of Vision, 2004

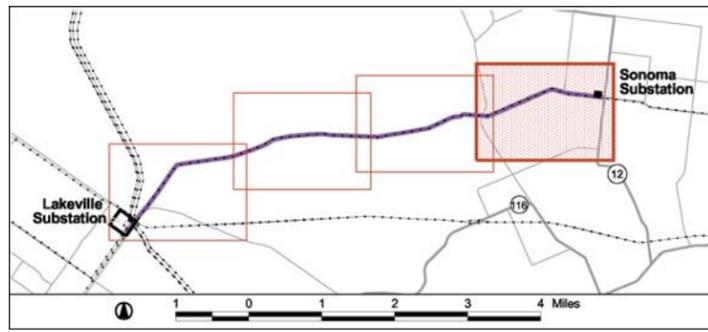
Visual Assessment Summary:

- Foreground view. Poles are approximately 520 feet (about 1/10-mile) from viewpoint.
- Number of poles "skylined" above the horizon remains the same (two).
- Moderate contrast with existing landscape, as the taller poles and extra sidearms for the new circuit are somewhat more prominent than the existing poles when seen against the sky. Residences, fences, and trees in foreground are equally prominent features in the landscape. Existing transmission line is already a prominent visual feature in existing view. Moderate incremental change with taller poles. Project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 13 - Visual Simulation

View looking south at Segment 17 from intersection of Fryer Creek Rd. and Todd St. (in residential subdivision)

Date of Photograph: 11/17/03
Time: 3:49 pm



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 14 - Existing View

View looking north at Sonoma substation from Leveroni Road

Date of Photograph: 11/19/03

Time: 3:30 pm



Source: Field of Vision, 2004

Visual Assessment Summary:

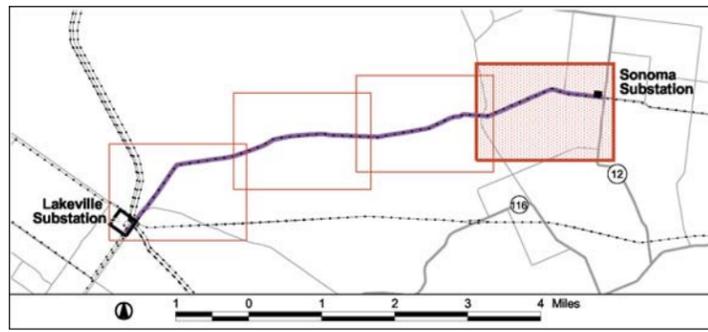
- Foreground view.
- Number of poles “skylined” above the horizon remains the same (two). One additional substation end structure will be skylined. Additional landscaping (not shown in simulation) will help screen views of the substation.
- Moderate contrast with existing landscape, as the taller poles and extra sidearms for the new circuit are somewhat more prominent than the existing poles when seen against the sky. Commercial and residential developments, trees and other transmission and distribution lines are equally prominent features in the landscape. Moderate incremental change with project will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant visual impact.

KOP 14 - Visual Simulation

View looking north at Sonoma substation from Leveroni Road

Date of Photograph: 11/19/03

Time: 3:30 pm



Study Area



Vicinity Map



Viewpoint Location



Source: Field of Vision, 2004

KOP 15 - Existing View

View looking northwest at Sonoma substation from mini-mart parking lot

Date of Photograph: 11/25/03

Time: 2:51 pm



*Note: This visual simulation shows the poles with an additional 10-foot height increase pursuant to the CPUC's policies on low-cost measures to reduce electric and magnetic fields (EMF). Pole heights may be more or less depending on final EMF mitigation measures by the CPUC.

Source: Field of Vision, 2004

Visual Assessment Summary:

- Foreground view. Two additional poles will be “skylined” above the horizon. One additional substation end structure will be skylined, but existing trees provide screening from this viewpoint. Additional landscaping (not shown in simulation) will partially screen views of the substation.
- Moderate contrast with existing landscape, as the taller poles and extra sidearms for the new circuit are somewhat more prominent than the existing poles when seen against the sky. Sonoma Mountains, commercial and residential developments, trees and other transmission and distribution lines are equally prominent features in the landscape. Northbound motorists on Hwy 12 have only a short duration view of substation, which is set back 300 feet from intersection. Moderate incremental change will not substantially degrade existing visual quality or character of the site and its surroundings. Less than significant impact.

KOP 15 - Visual Simulation

View looking northwest at Sonoma substation from mini-mart parking lot

Date of Photograph: 11/25/03
Time: 2:51 pm