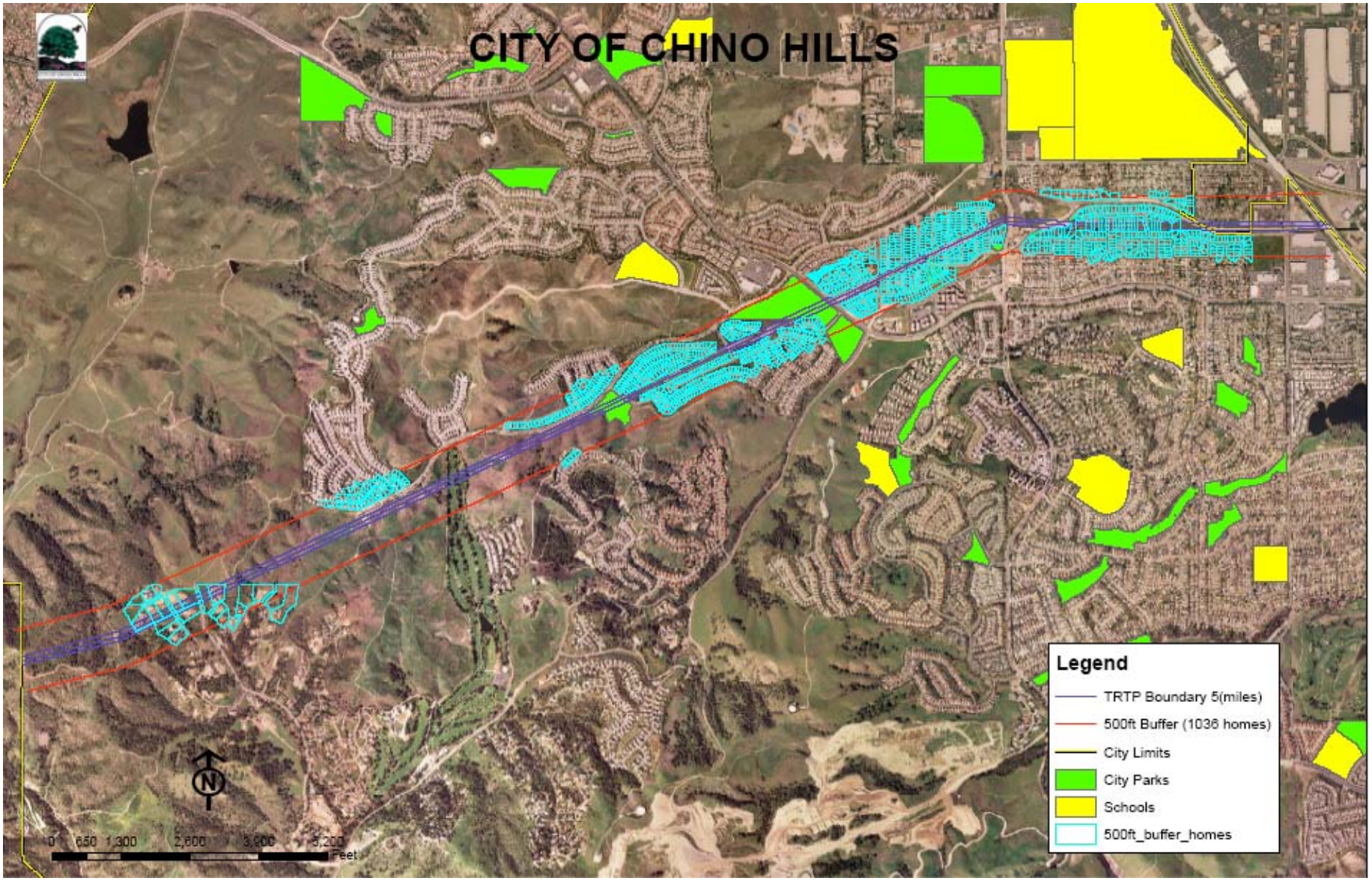
Tehachapi Renewable Transmission Line Update

City Council Meeting

12/11/07

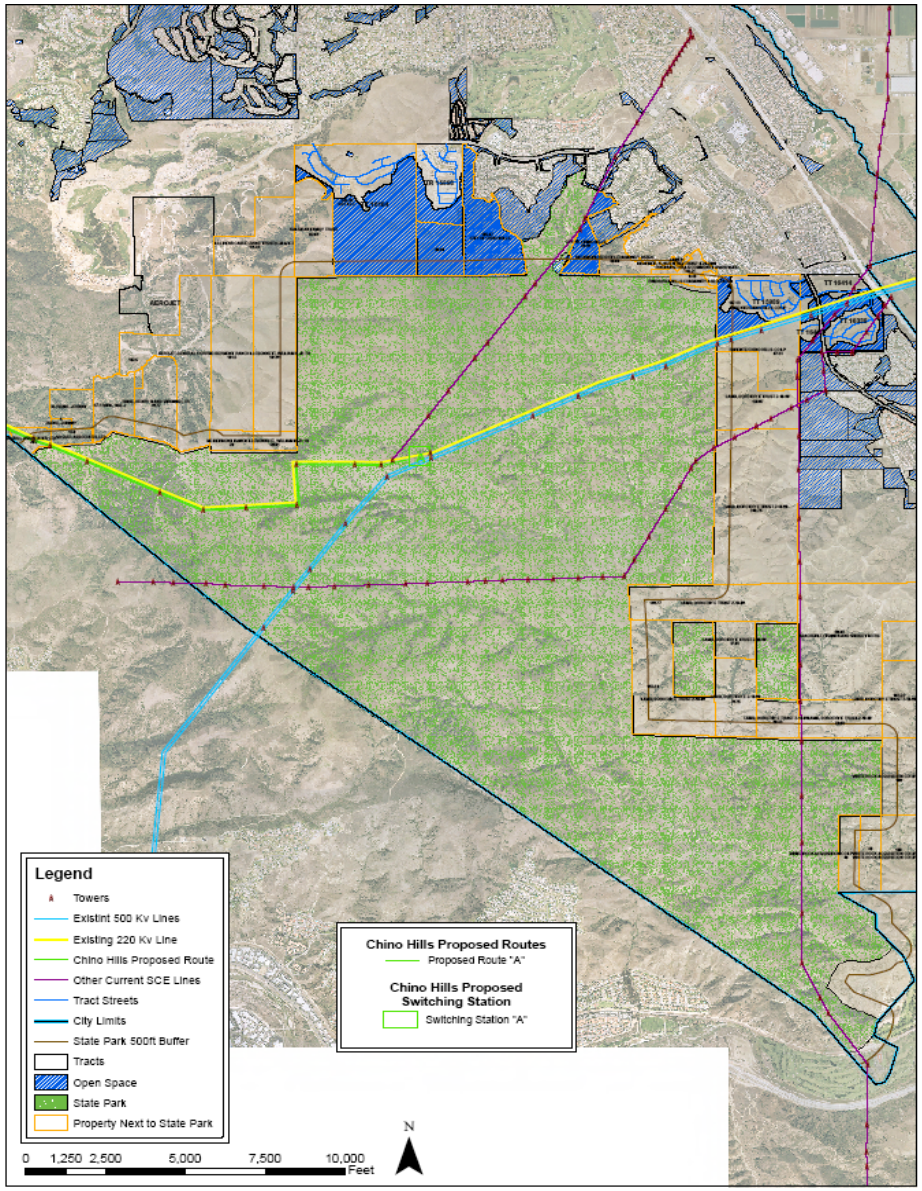
TRTP Segment 8A as Currently Proposed



Currently Proposed Project Facts

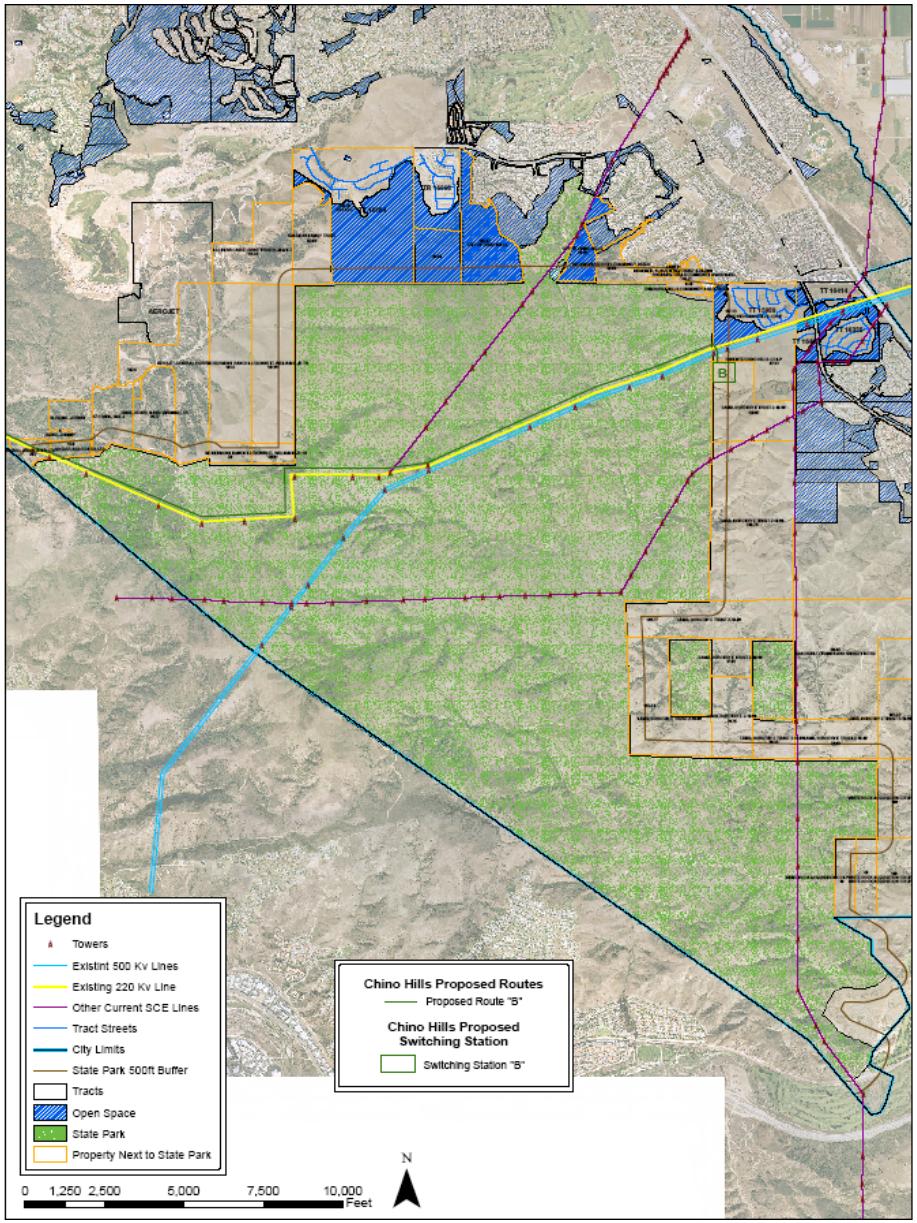
- Route would utilize 150 foot ROW of single circuit 220kv line to house double circuit 500kv line
- Currently de-energized 220 kv 98 foot towers would be replaced with 195 foot towers energized with 500kv
- 5 miles of double circuit 500kv transmission line through Chino Hills 3.5 miles of which would be adjacent to residential property
- 1036 homes sheltering an estimated 3,500 residents within 500 feet of the proposed line within Chino Hills

Chino Hills Alternative “A”



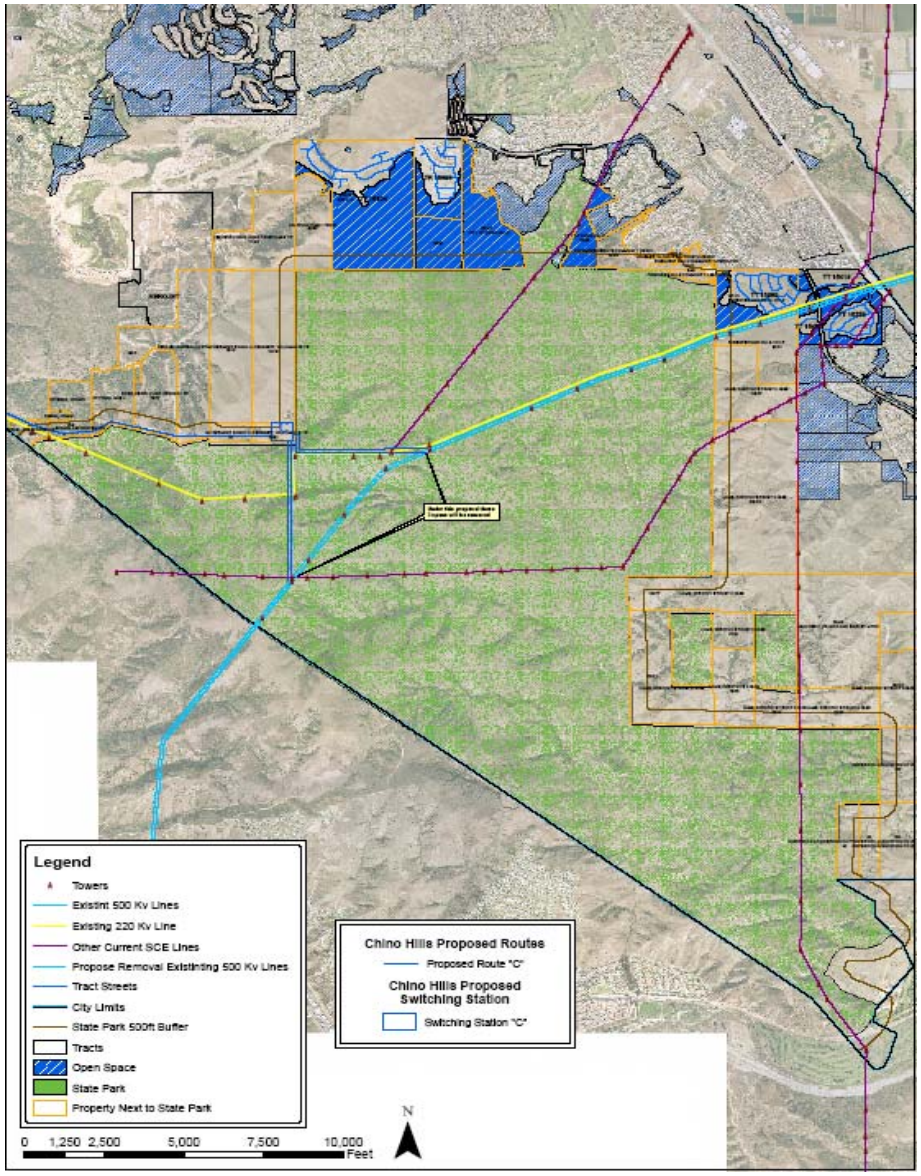
- Eliminates the need for building about 15 miles of double circuit 500kV transmission lines in populated areas of Chino Hills and in two other neighboring communities - considered the most costly and troubling part of the entire TRTP project
- Technically acceptable
- Adds an estimated 2.5 miles of double circuit 500kV transmission lines in the State Park
- Places a new line and a switching station inside the State Park
- Requires 7 new double circuit 500kV transmission towers and est. 30 acres of added transmission ROW in the State Park

Chino Hills Alternative “B”



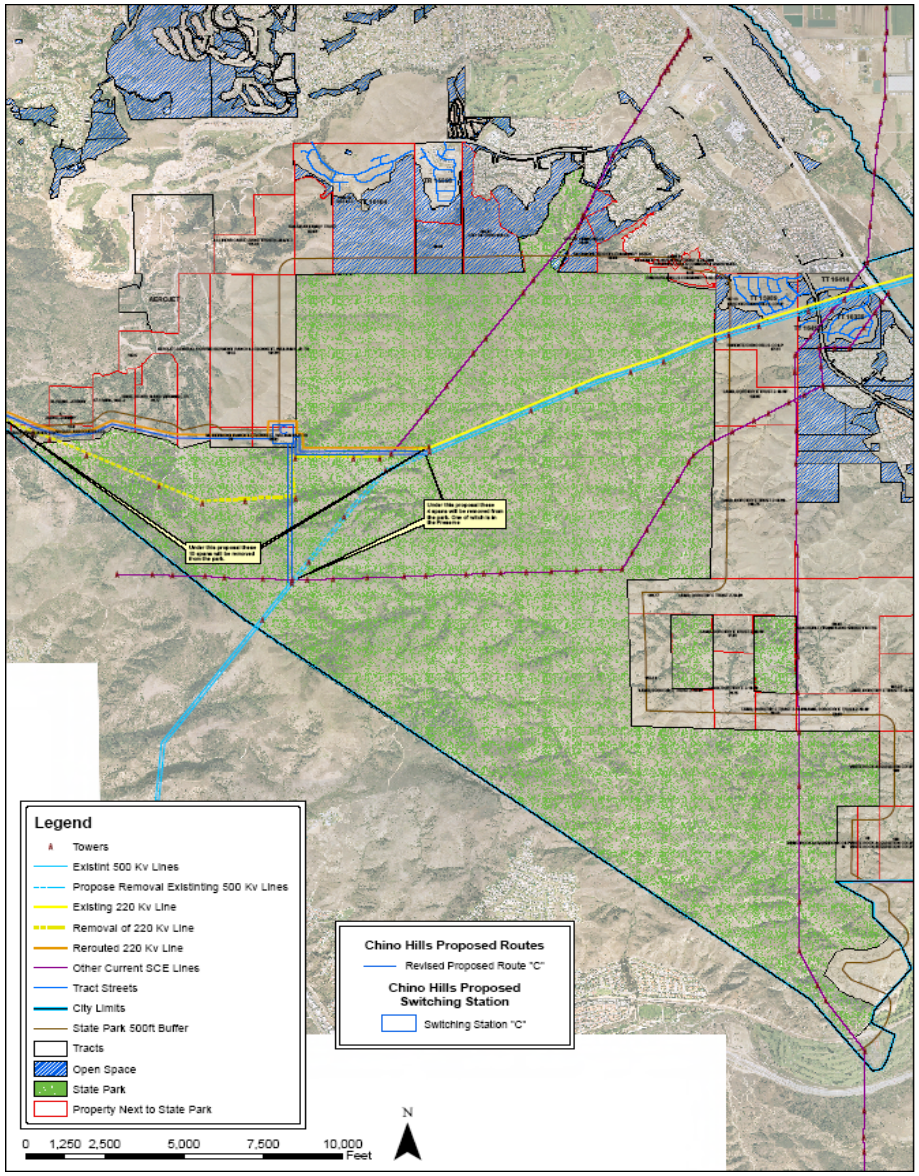
- Extends the Chino Hills Alternative A Line east through the State Park along the Serrano-Mira Loma transmission corridor until it leaves the State Park and connects into the switching station located on Vila Borba
- Technically acceptable
- Eliminates transmission lines from current or proposed residential areas
- Removes the switching station from inside the State Park
- More costly than Alternative A since the line will be extended by est. 2.5 miles inside and outside the State Park
- SCE does not believe that switching station location is suitable

Chino Hills Alternative “C”



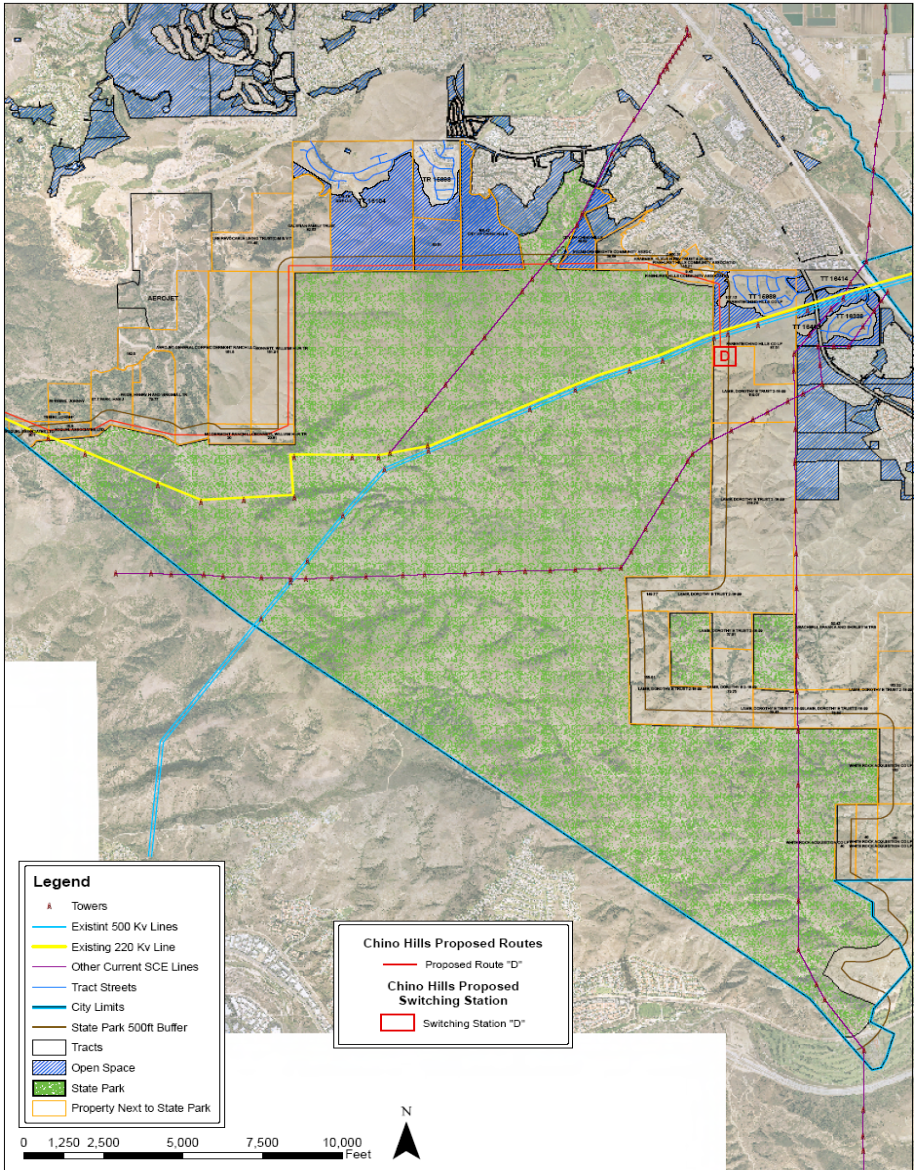
- The Chino Hills Alternative A Line does not enter the State Park and instead travels the northern edge of Park to McDermott Ranch/Bonnett area where the switching station would be located
- Two existing Serrano-Mira Loma lines would be diverted inside the State Park into the switching station
- Technically acceptable
- Eliminates transmission lines from current or proposed residential areas
- No new line or switching station inside the State Park
- Removes existing 500kV transmission structure from Water Canyon State Park Preserve

Chino Hills Revised Alternative “C”



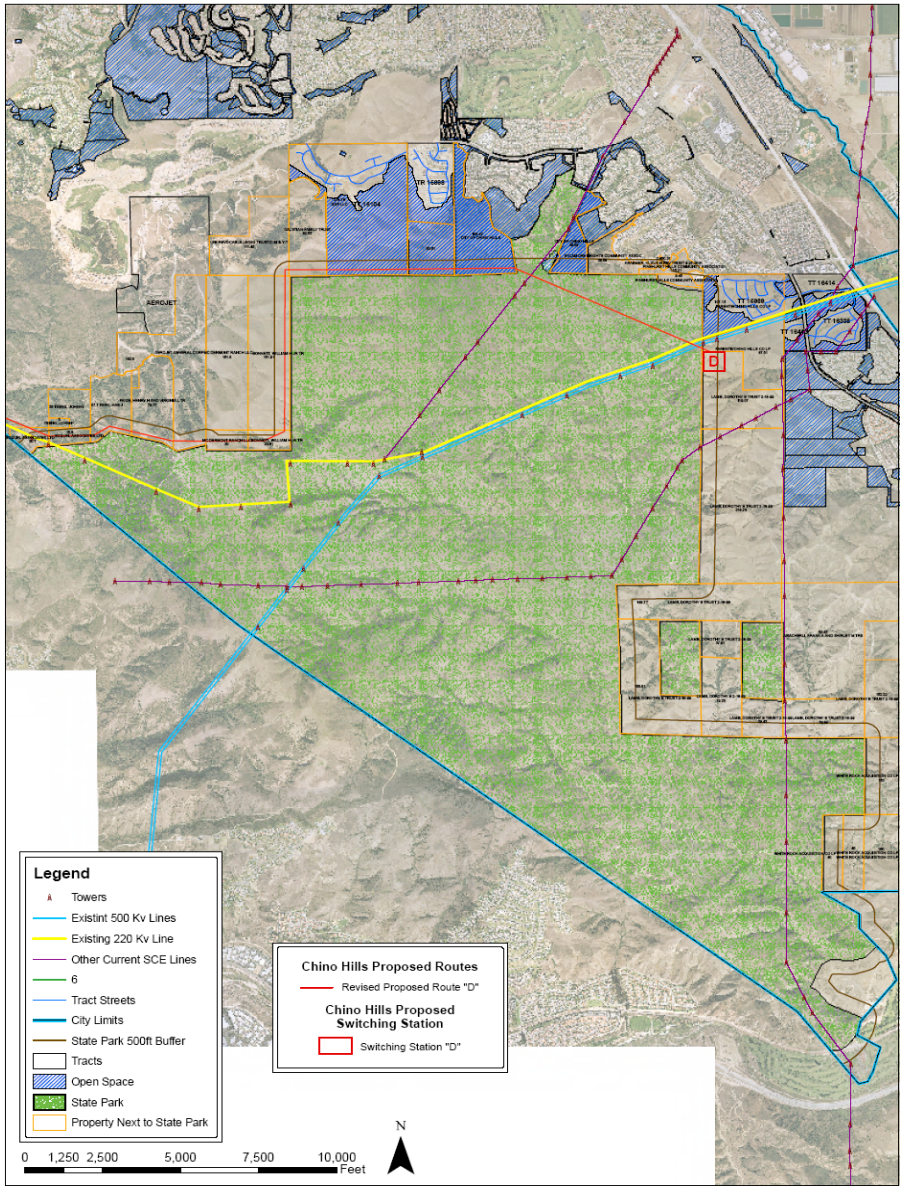
- Similar to Alternative C except it also moves an existing 220kV transmission structure outside the State Park
- Technically acceptable
- Eliminates transmission lines from current or proposed residential areas
- Impact on the State Park: A NET reduction of 1.5 miles of transmission line and 4 transmission towers from the State Park and returns est. 14 acres of ROW to Park.
- Takes all existing energized transmission structure (towers & lines) outside the WCS Preserve.
- Removes est. 2.4 miles of existing 500 kV single circuit lines and six (6) 500kV towers from the State Park - about 48 acres of transmission ROW returned to the Park
- Removes est. 2.3 miles of 220kV existing transmission and nine (9) 220kV double circuit towers from the State Park - about 29 acres of ROW returned to the Park
- Adds est. 2.8 miles (2X1.4 miles) of single circuit 500kV transmission line and 8 towers to the State Park - adds about 57 acres of ROW inside the Park (none within the WCS Preserve and practically all within existing transmission corridors)
- Adds est. .5 mile of double circuit 220kV transmission line and 3 towers in the State Park - adds about 6 acres of ROW inside the Park (none within the Preserve and practically all within existing transmission corridors).
- Removes 2/3rd mile of existing 500 kV single circuit transmission line and two (2) 500kV towers from the WCS Preserve - about 13 acres of transmission ROW returned to the WCS Preserve

Chino Hills Alternative “D”



- The Chino Hills Alternative A line travels east along the entire northern edge of State Park (never enters the Park) and then south along the eastern edge of the Park until it reaches the switching station in Vila Borba
- Technically acceptable
- No new transmission structures (line or substation) inside the State Park (Park entrance area excepted)
- The most expensive alternative
- Will have adverse impacts on Chino Hills residents
- State Park would consider this alternative subject to “mitigation measures”
- SCE does not believe that switching station location is suitable

Chino Hills Revised Alternative “D”



- Line travels east along the entire northern edge of State Park and then cuts south through the eastern edge of the Park until it reaches the switching station in Vila Borba area
- Technically acceptable
- Eliminates transmission lines from current or proposed residential areas
- Some transmission structures inside the State Park
- Practically as expensive as the Alternative D
- Will have adverse impacts on Chino Hills residents
- State Park would considers this alternative subject to “mitigation measures”
- SCE does not believe that switching station location is suitable