

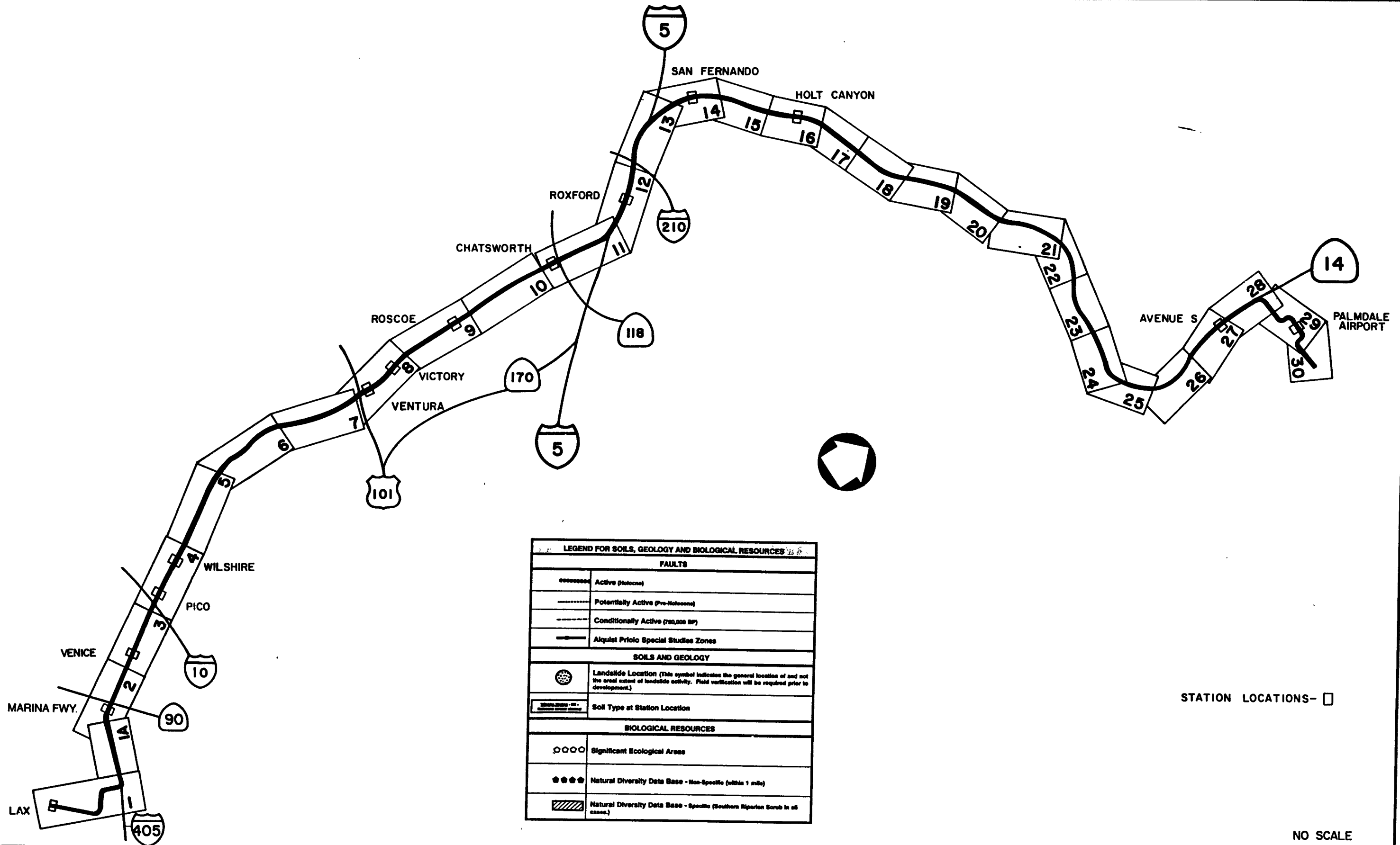
# **LAX TO PALMDALE ADVANCED TECHNOLOGY DEMONSTRATION PROJECT**

KEY INFORMATION ON SOILS, GEOLOGY, AND BIOLOGICAL RESOURCES

**PREPARED FOR:**



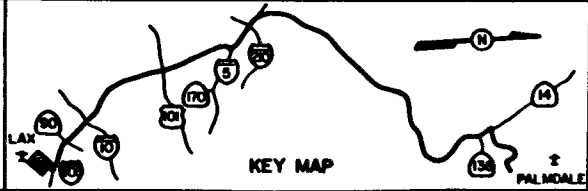
**LOS ANGELES COUNTY  
TRANSPORTATION COMMISSION**



LEGEND FOR SOILS, GEOLOGY AND BIOLOGICAL RESOURCES	
FAULTS	
	Active (Holocene)
	Potentially Active (Pre-Holocene)
	Conditionally Active (750,000 BP)
	Alquist Priolo Special Studies Zones
SOILS AND GEOLOGY	
	Landslide Location (This symbol indicates the general location of and not the areal extent of landslide activity. Field verification will be required prior to development.)
	Soil Type at Station Location
BIOLOGICAL RESOURCES	
	Significant Ecological Area
	Natural Diversity Data Base - Non-Specific (within 1 mile)
	Natural Diversity Data Base - Specific (Southern Riparian Scrub in all cases.)

STATION LOCATIONS- □

NO SCALE



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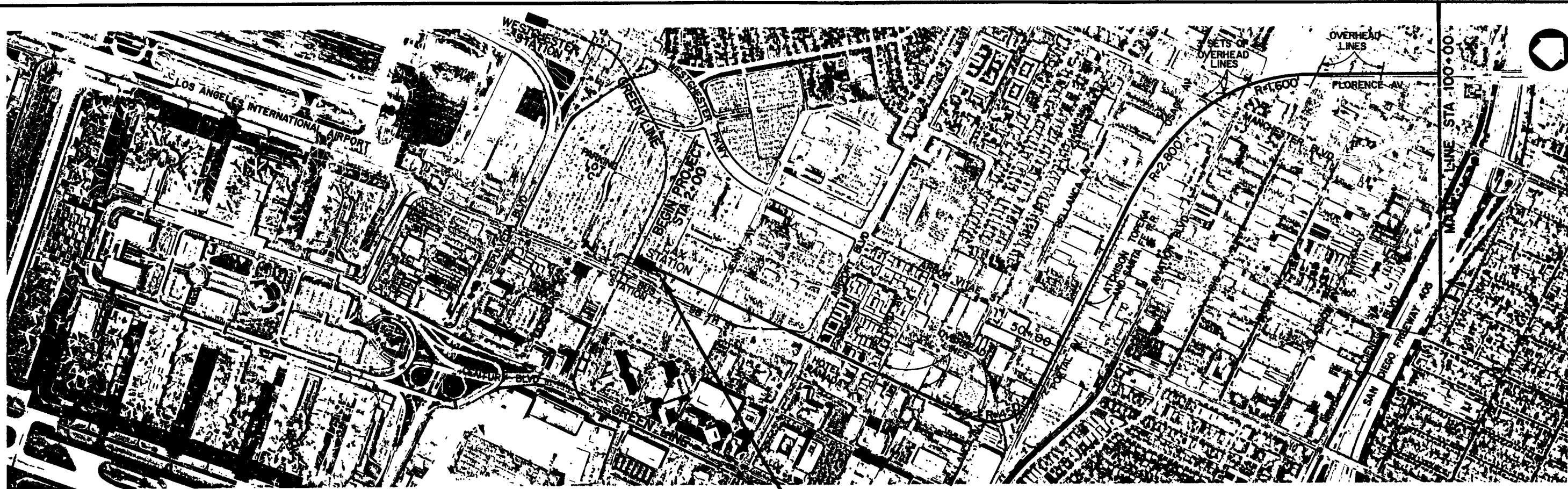
*Parsons  
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*Myra L.  
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KEY INFORMATION ON SOILS, GEOLOGY,  
 AND BIOLOGICAL RESOURCES

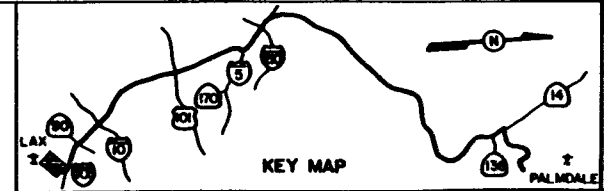
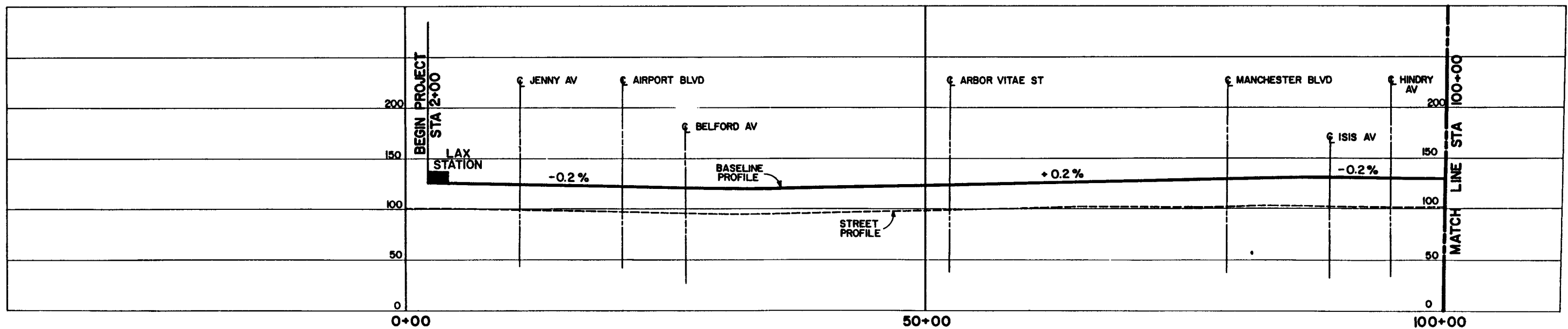
**BASILINE ALIGNMENT**

SHEET NO.



LAX Station - P1m - Pleistocene alluvium or marine terrace deposits, fine to medium grained.

NOTE:  
ELEVATION UNKNOWN  
FOR OVERHEAD LINES



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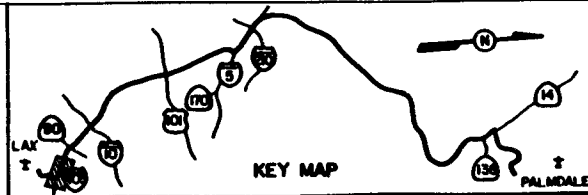
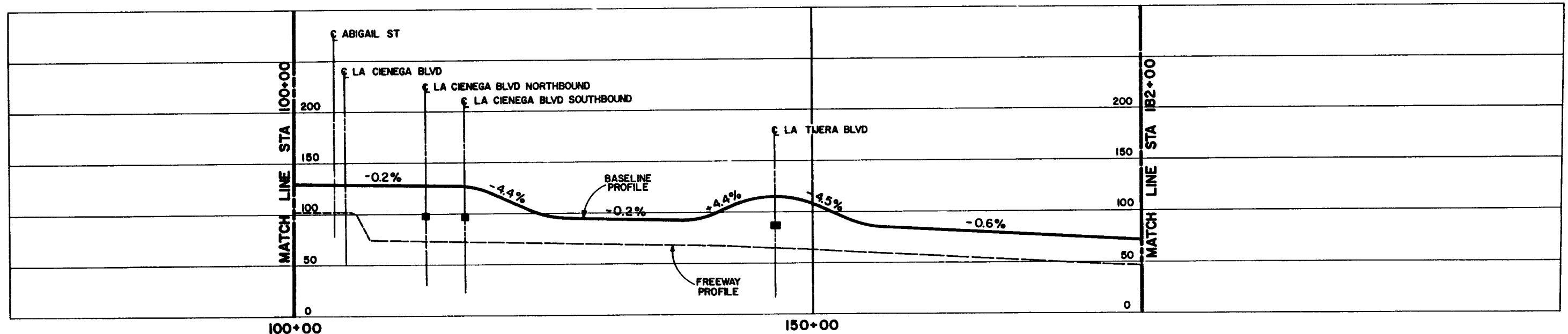
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KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 2+00 TO STA 100+00  
PLAN & PROFILE

SHEET NO. 1



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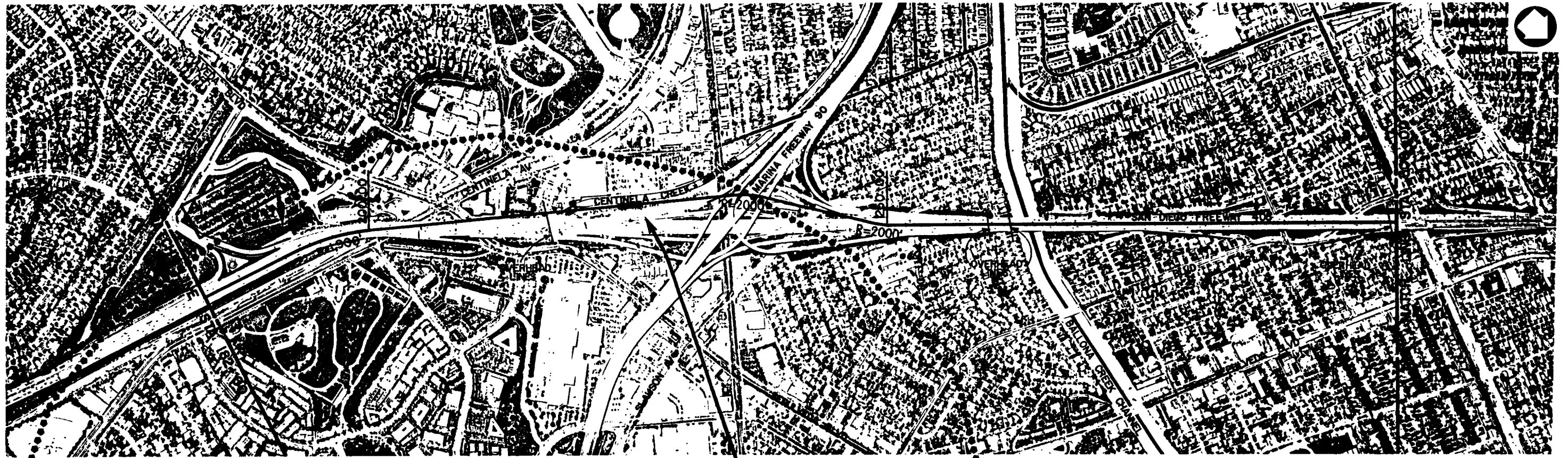
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KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

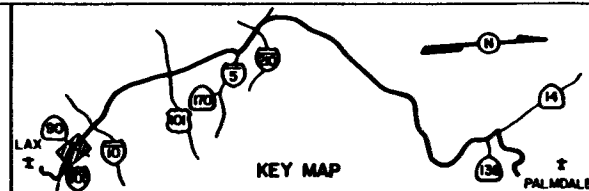
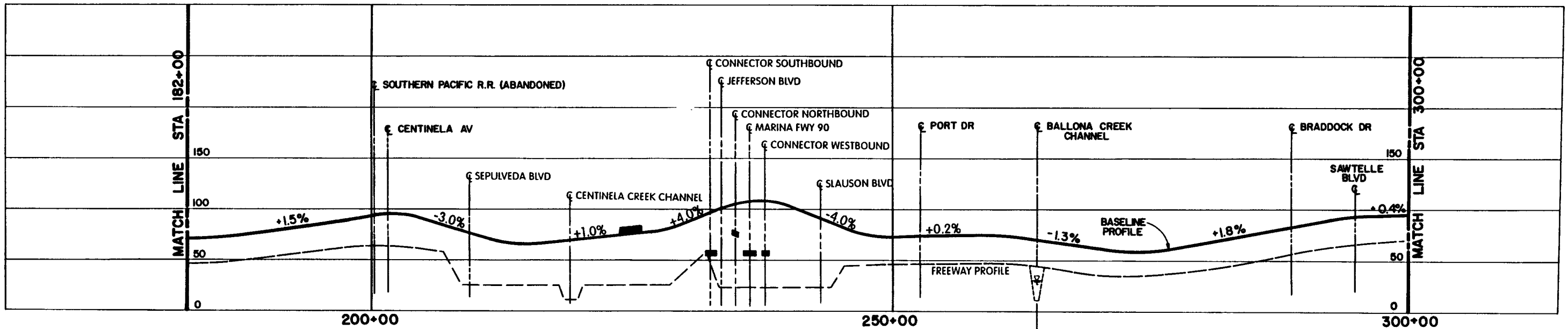
BASELINE ALIGNMENT  
STA 100+00 TO STA 182+00

SHEET NO. 1A



Centinela Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.

NOTE:  
ELEVATION UNKNOWN  
FOR OVERHEAD LINES



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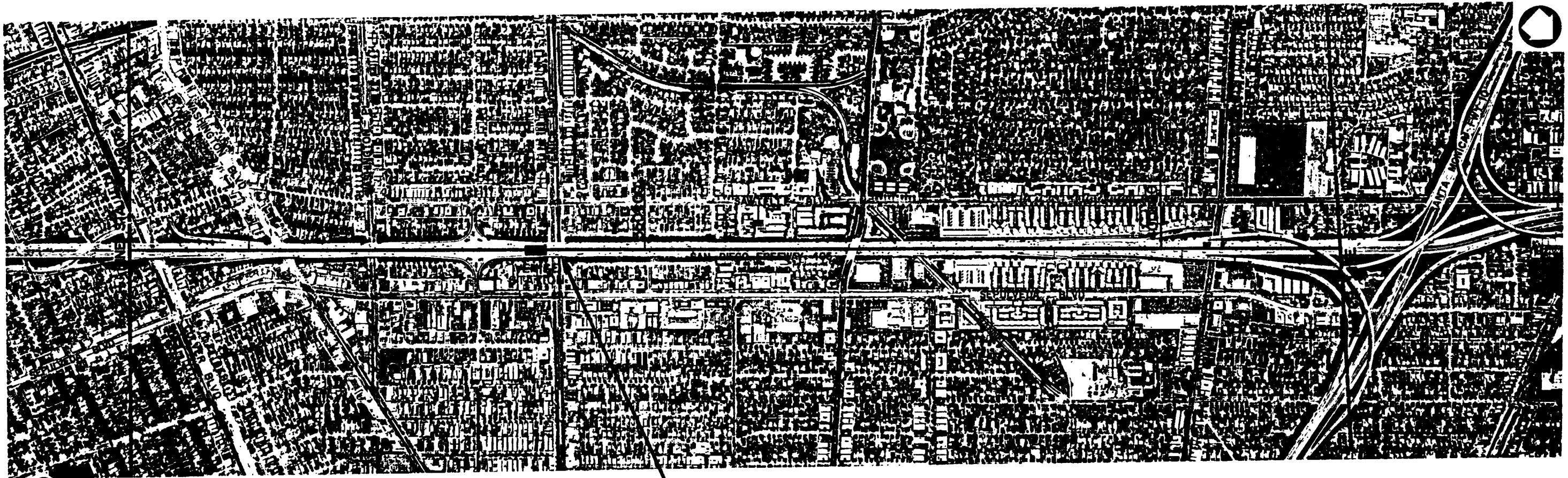
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KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

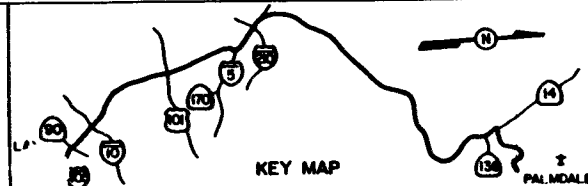
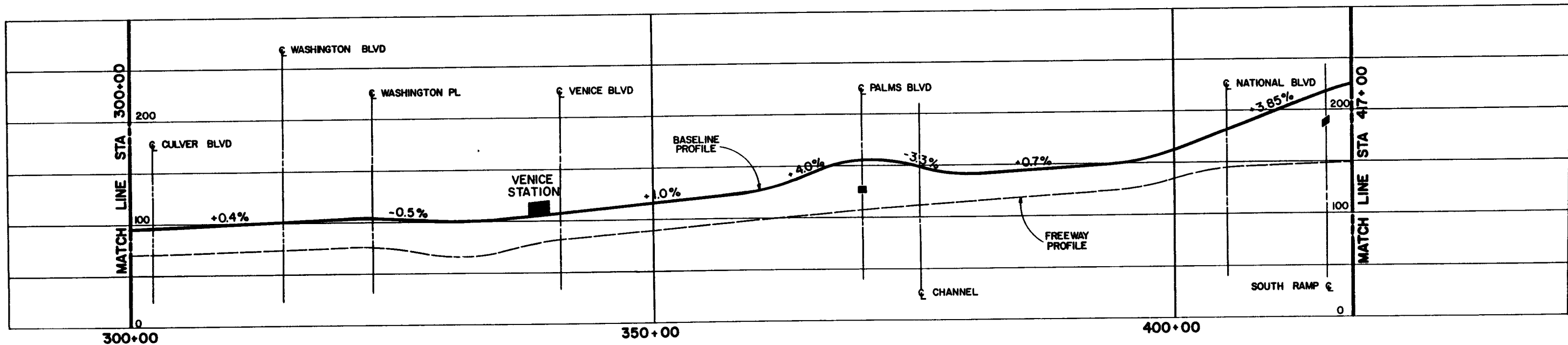
BASELINE ALIGNMENT  
STA 182+00 TO STA 300+00  
PLAN & PROFILE

SHEET NO. 2





Venice Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.



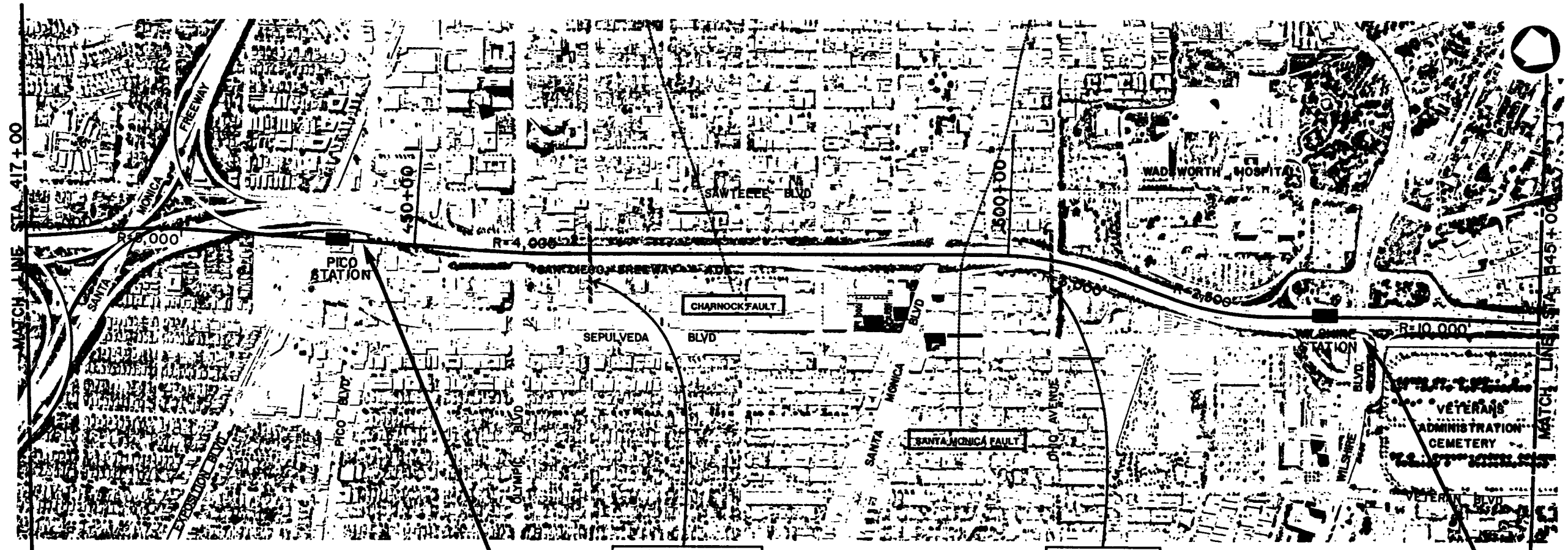
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KEY INFORMATION ON SOILS, GEOLOGY,  
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BASELINE ALIGNMENT  
 STA 300+00 TO STA 417+00

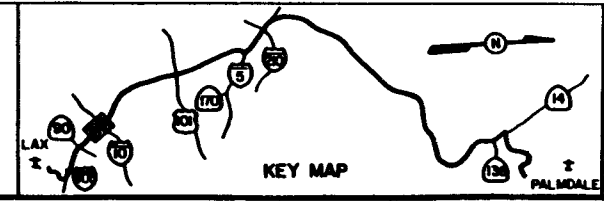
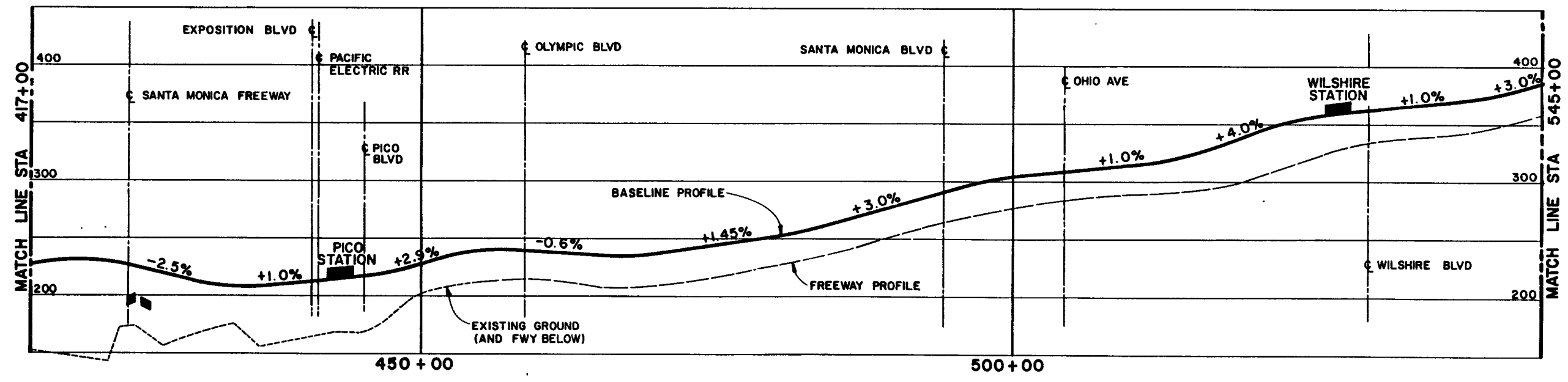


Pico Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.

66kV Above 16kV  
16kV Apx. 50' Above Freeway

16kV Apx. 30' Clearance Above Freeway

Wilshire Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.



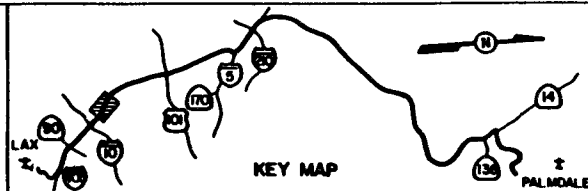
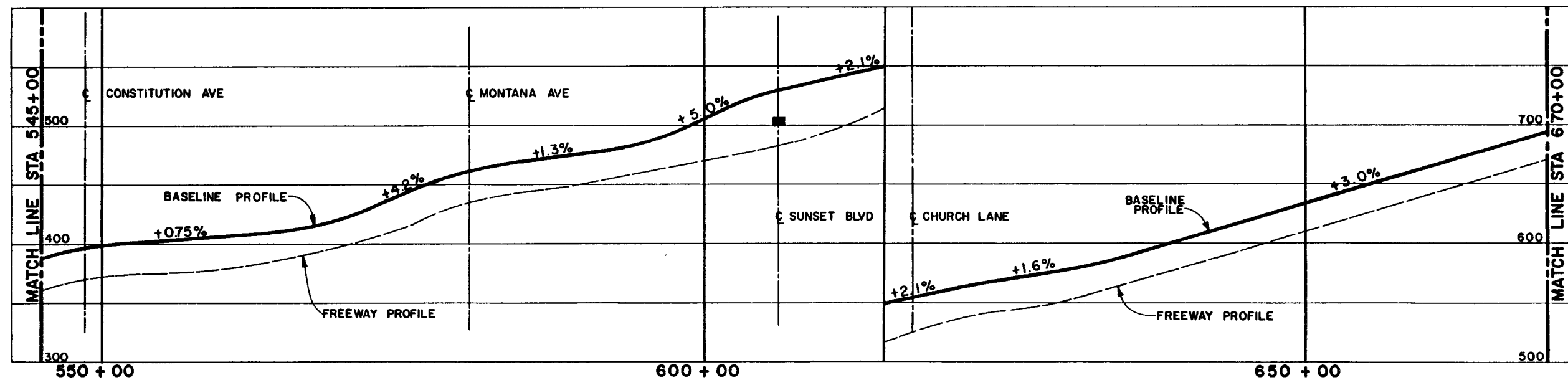
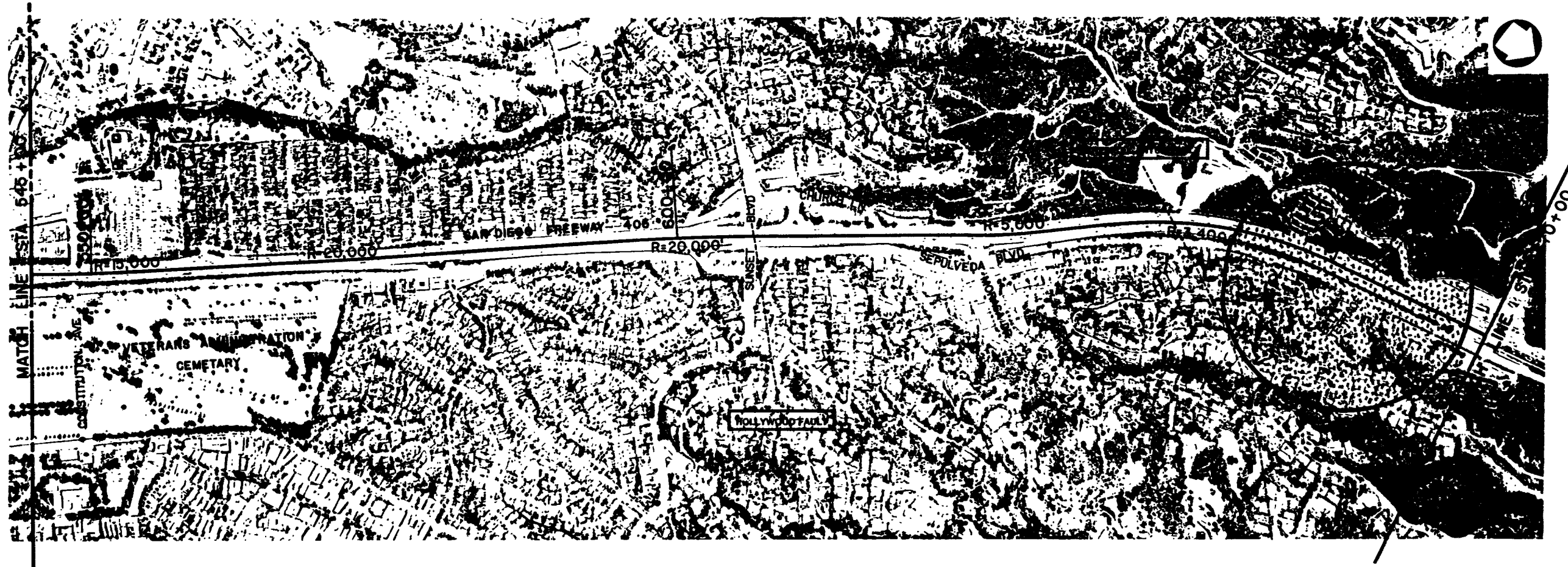
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KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 417+00 TO STA 545+00  
PLAN & PROFILE



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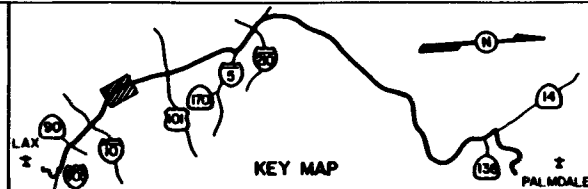
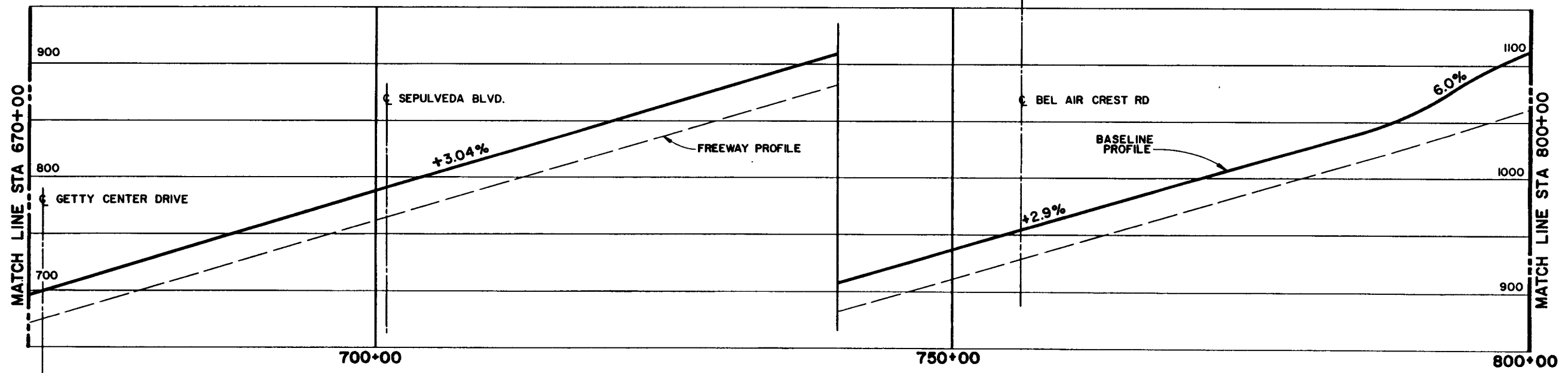
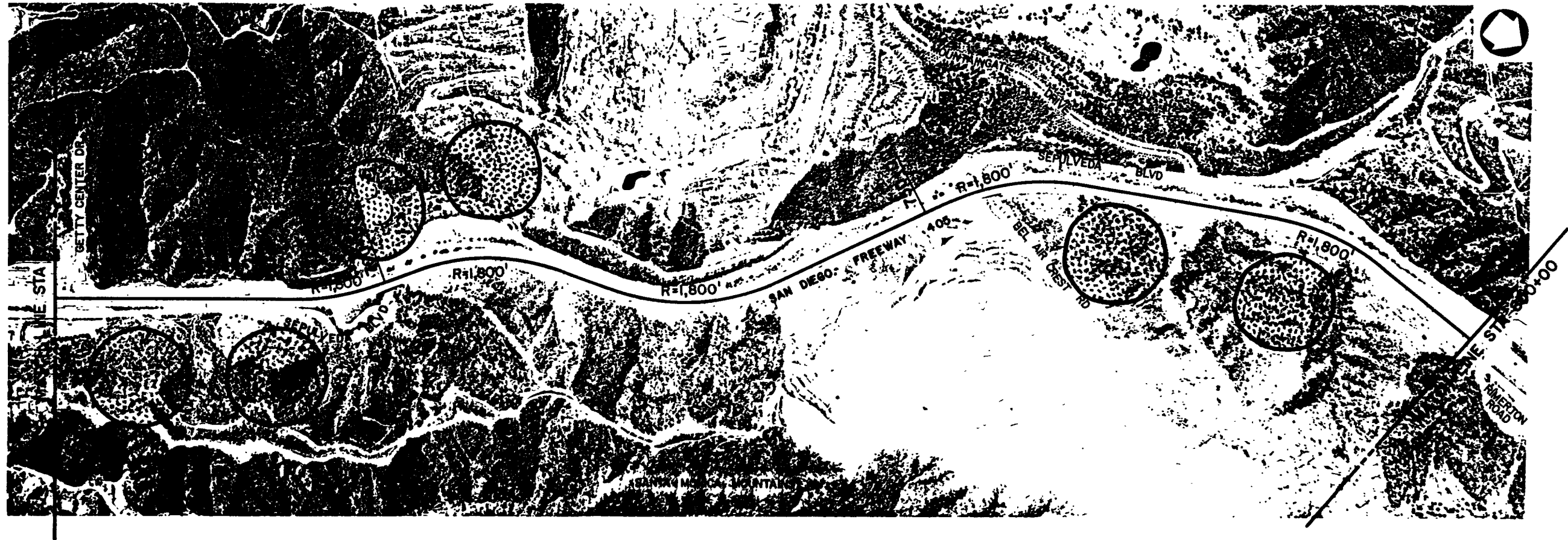
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KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 545+00 TO STA 670+00  
PLAN & PROFILE





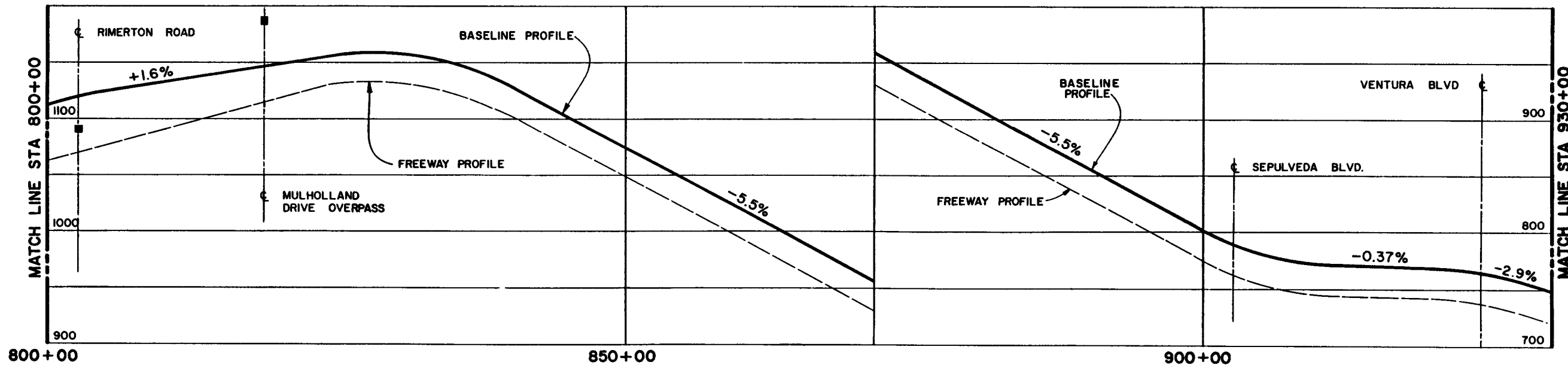
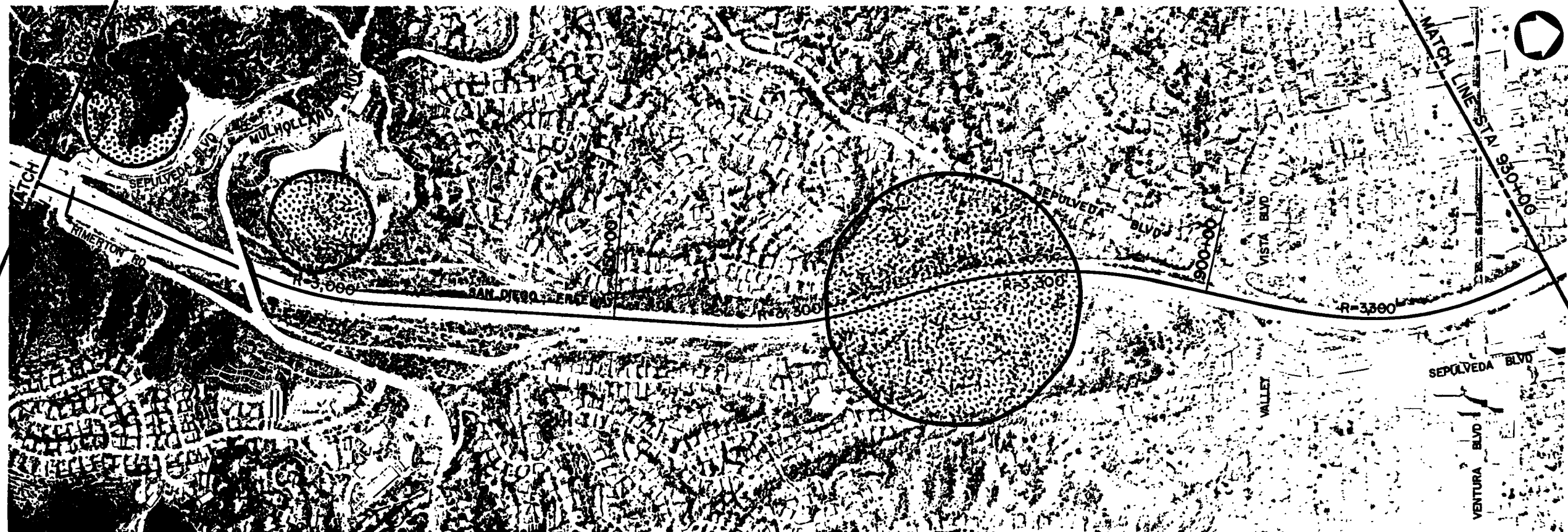
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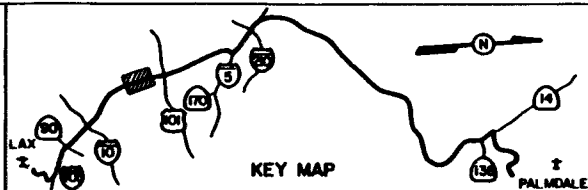
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KEY INFORMATION ON SOILS, GEOLOGY,  
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**BASELINE ALIGNMENT  
 STA 670+00 TO STA 800+00  
 PLAN & PROFILE**



GRAPHIC SCALE



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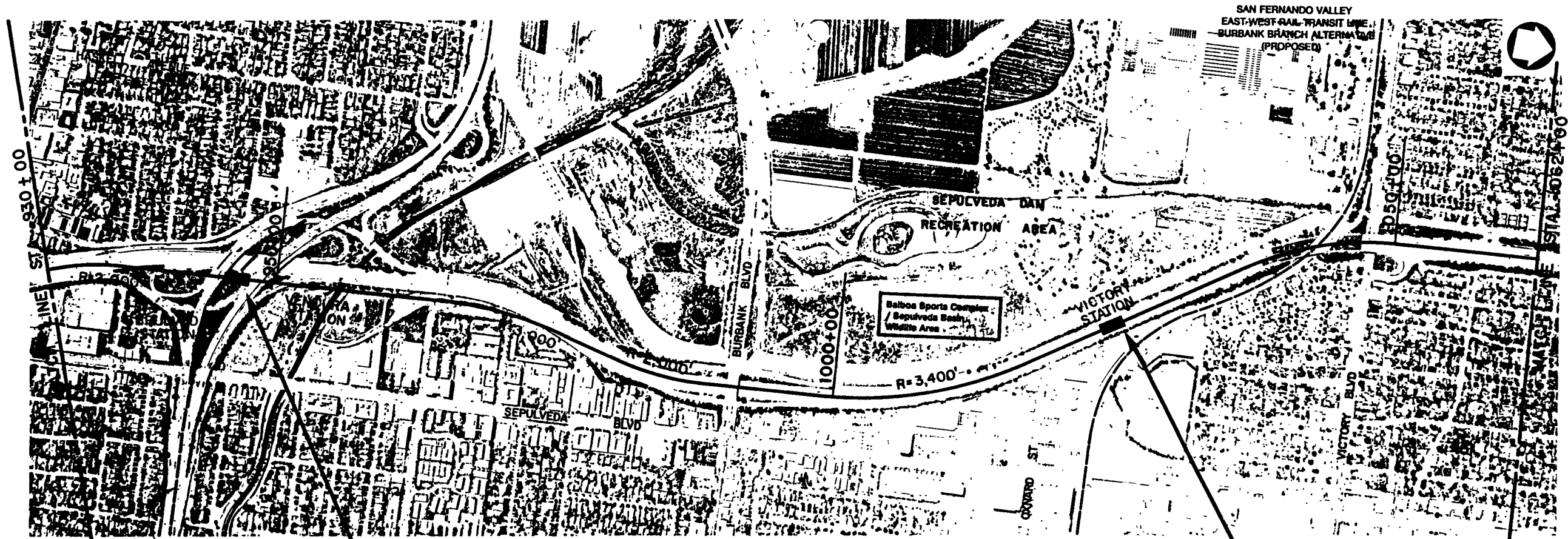
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KEY INFORMATION ON SOILS, GEOLOGY,  
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BASELINE ALIGNMENT  
STA 800+00 TO STA 930+00  
PLAN & PROFILE

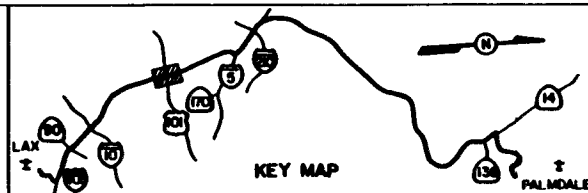
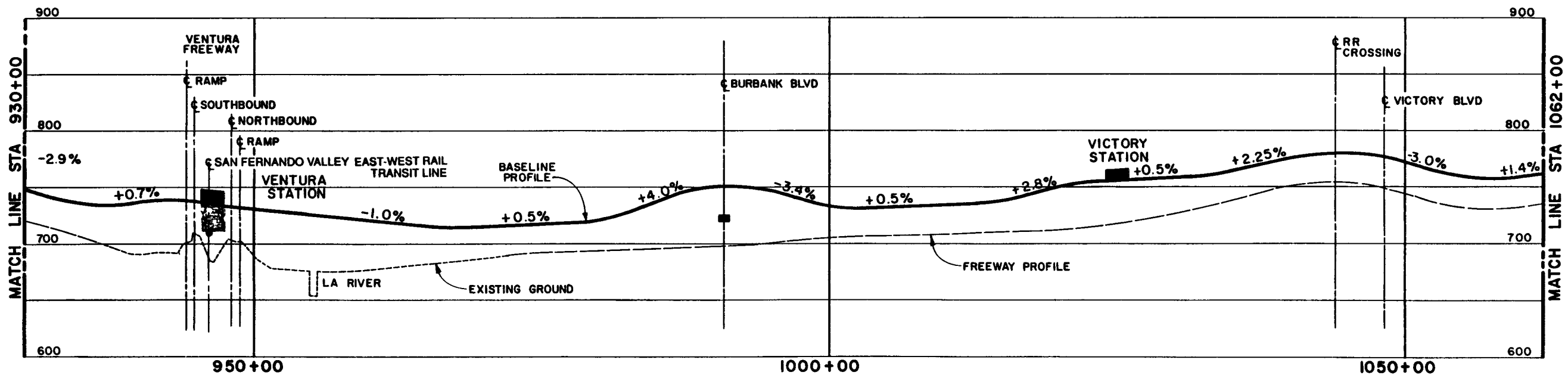
SHEET NO. 7



SAN FERNANDO VALLEY  
EAST-WEST RAIL TRANSIT LINE  
(PROPOSED)

Ventura Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.

Victory Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.



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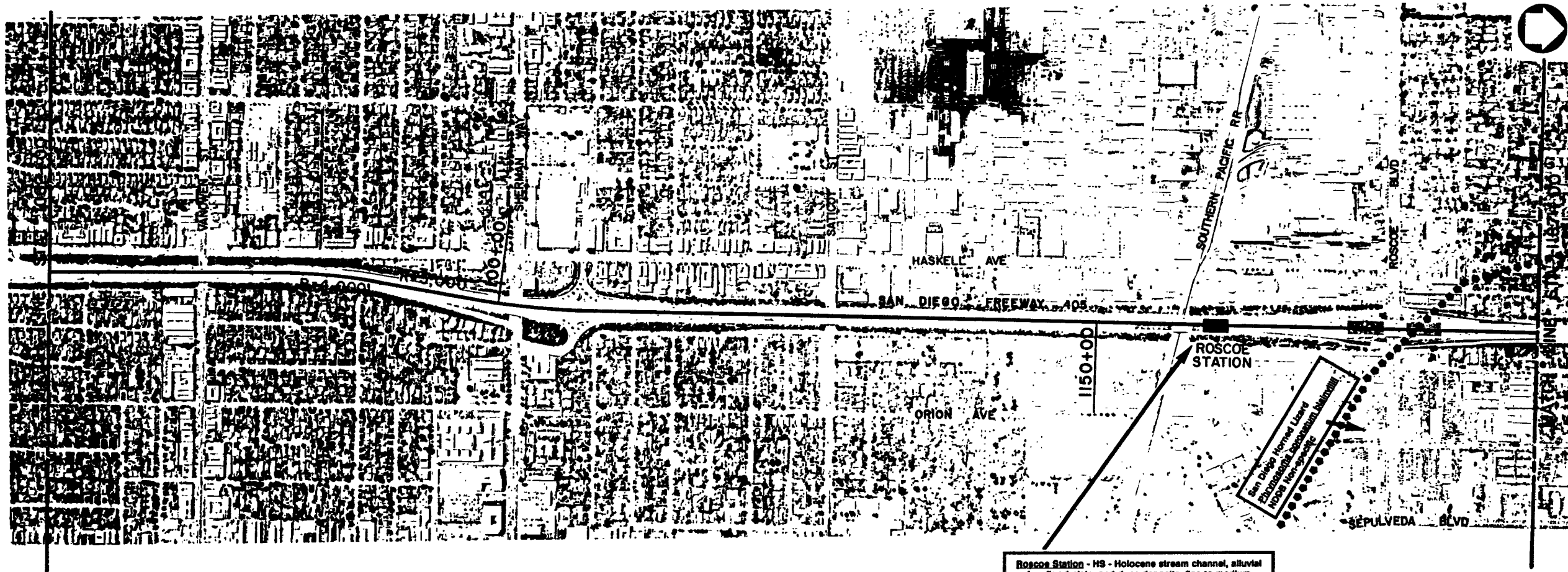
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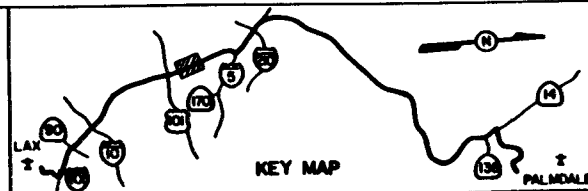
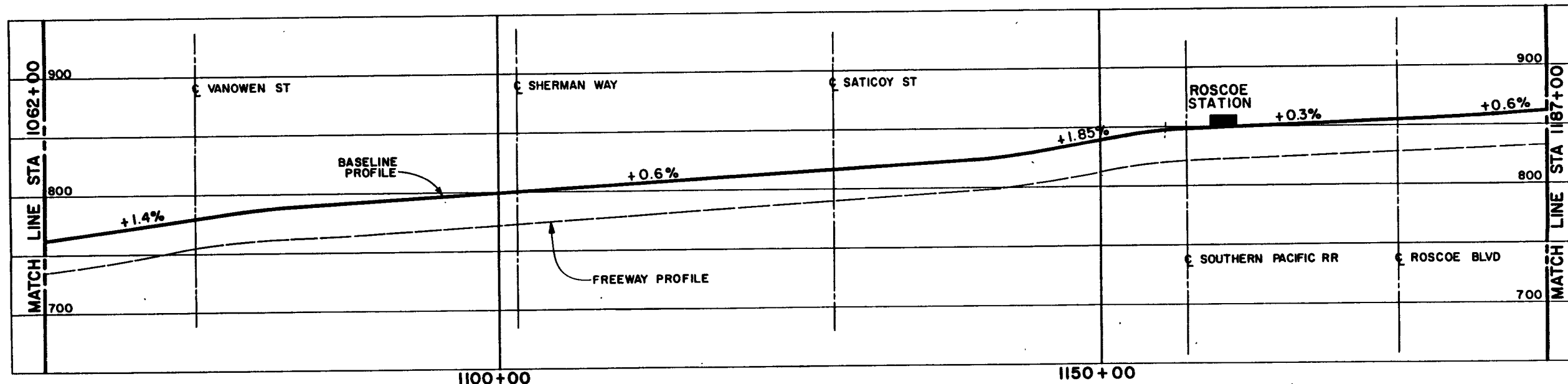
KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 930+00 TO STA 1062+00  
PLAN & PROFILE

SHEET NO. 8



Roscoe Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.



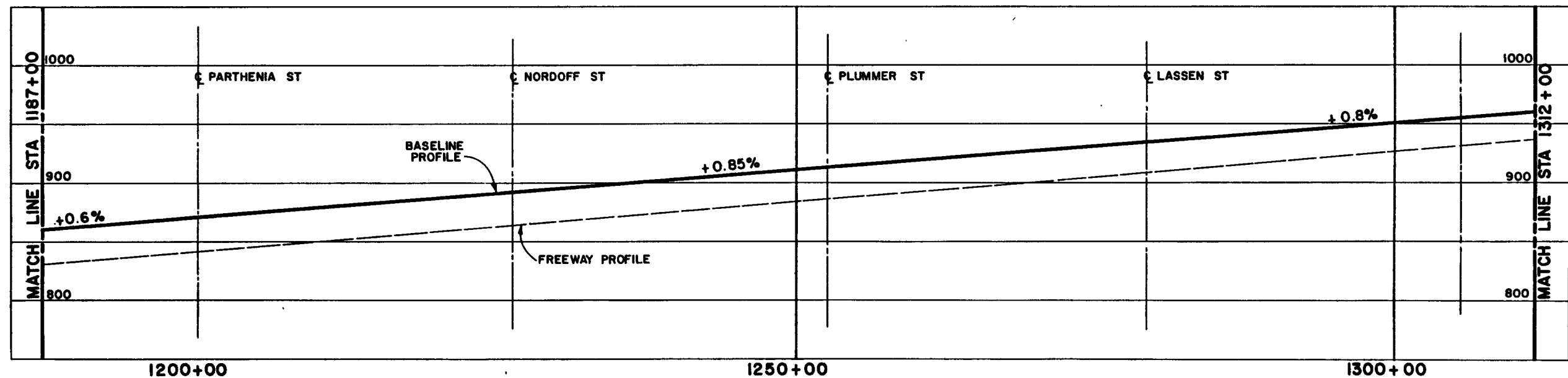
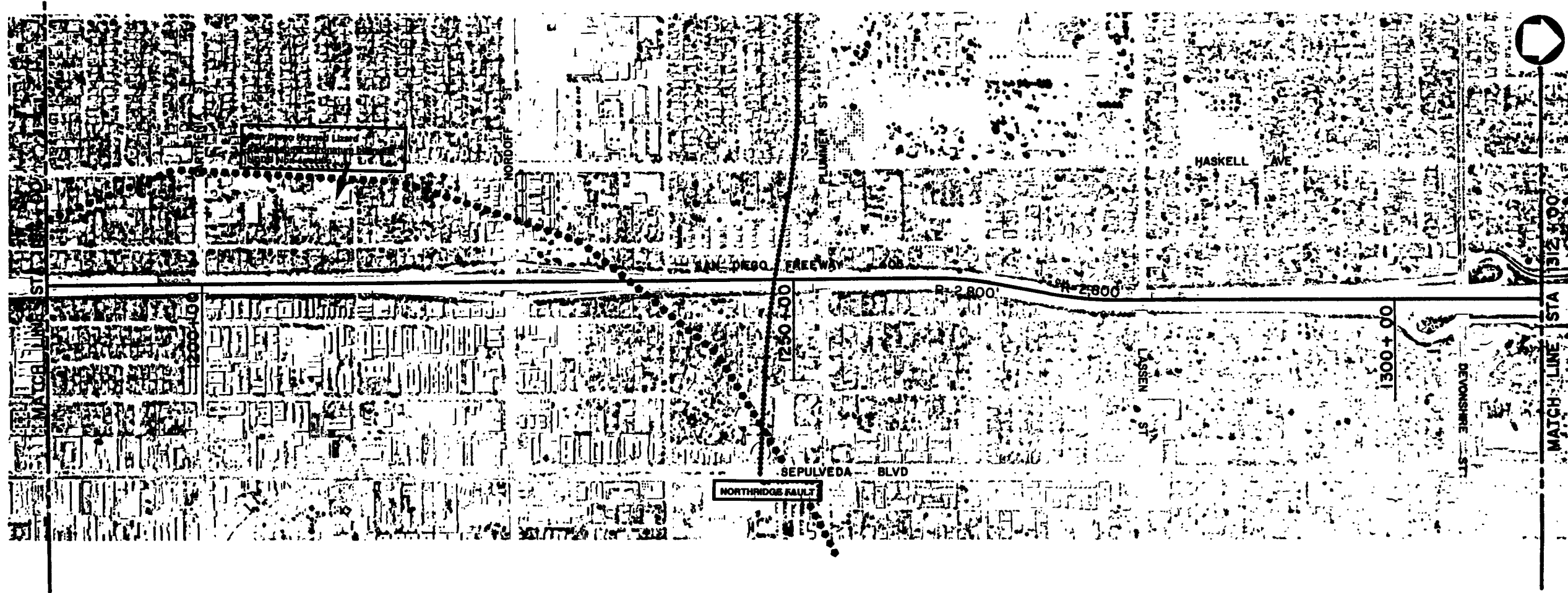
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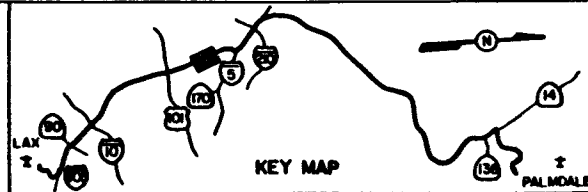
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KEY INFORMATION ON SOILS, GEOLOGY, AND BIOLOGICAL RESOURCES

**BASELINE ALIGNMENT  
 STA 1062+00 TO STA 1187+00  
 PLAN & PROFILE**



GRAPHIC SCALE



KEY MAP



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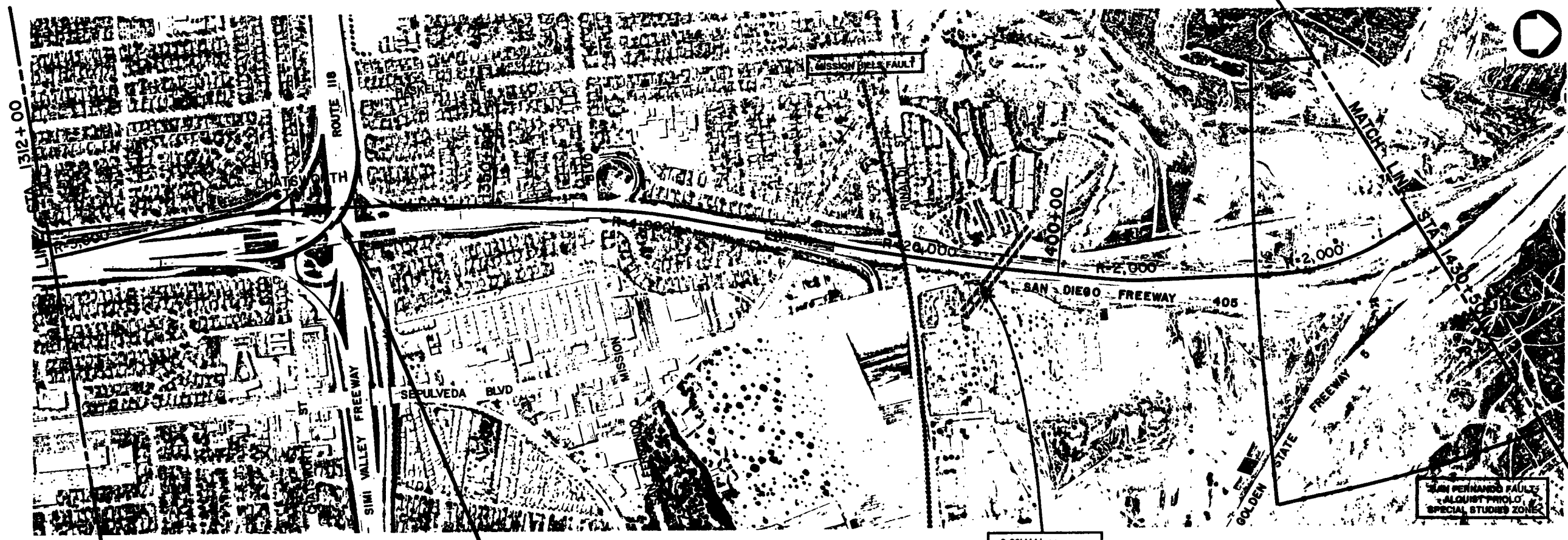
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KEY INFORMATION ON SOILS, GEOLOGY,  
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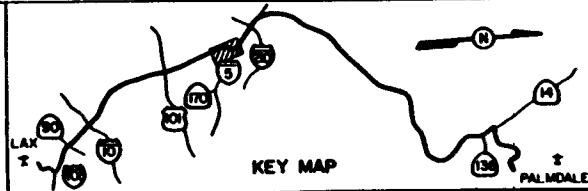
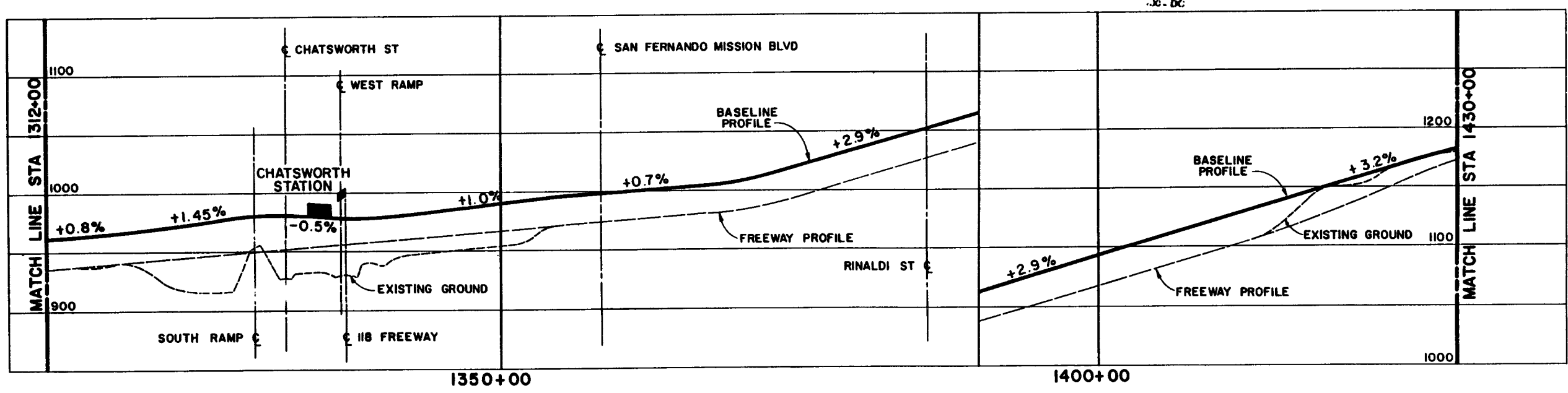
BASELINE ALIGNMENT  
STA 1187+00 TO STA 1312+00  
PLAN & PROFILE





Chatsworth Station - HS - Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained.

2-66kV Lines  
Clearance Unknown



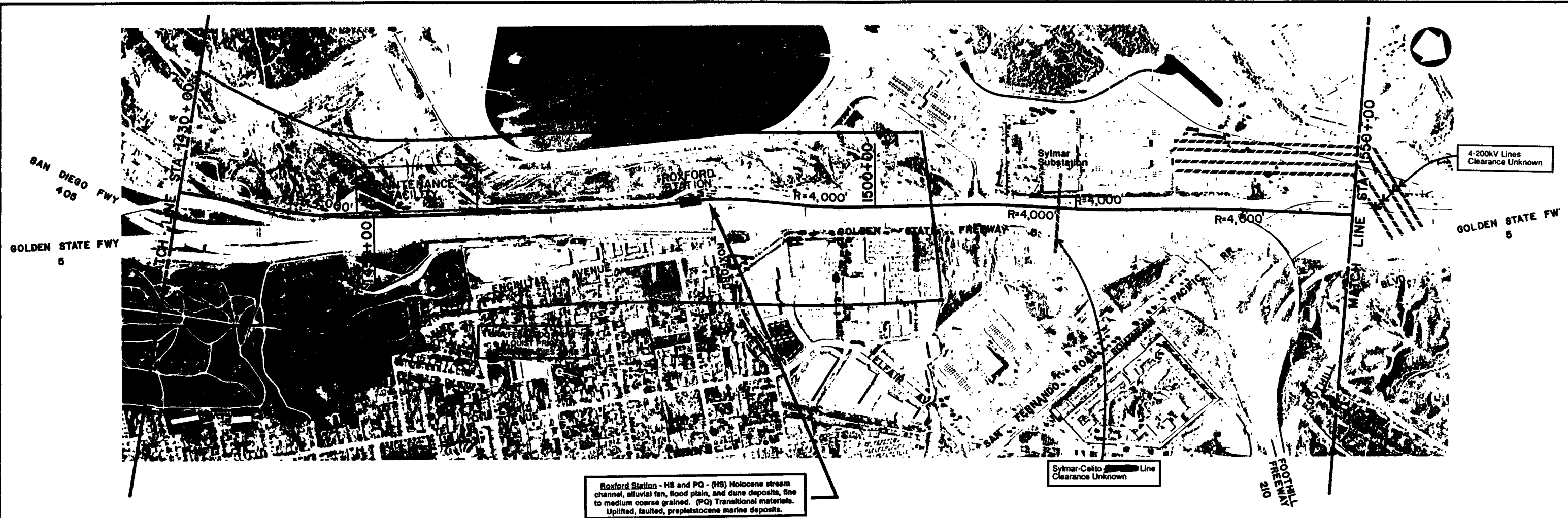
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KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

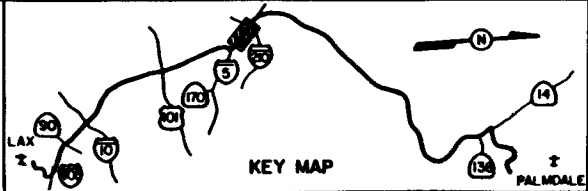
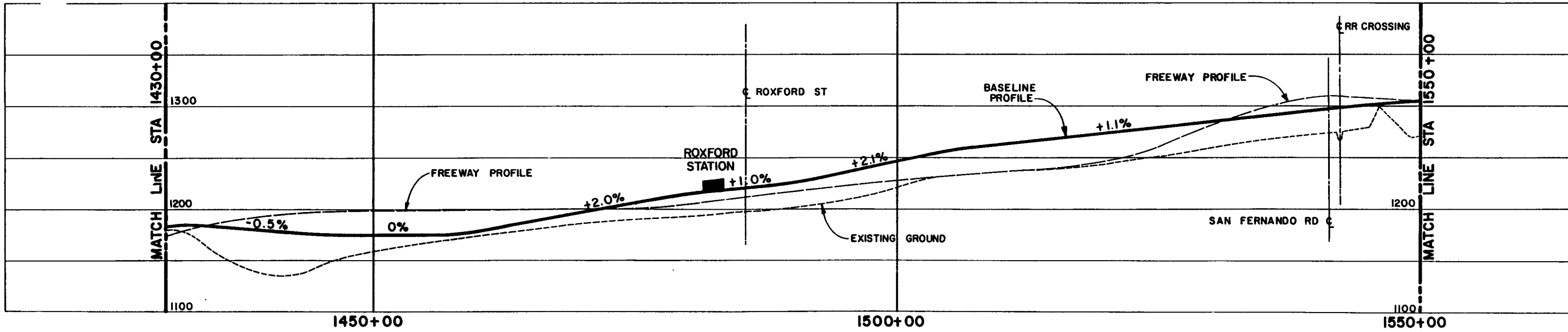
**BASLINE ALIGNMENT**  
STA 1312+00 TO STA 1430+00  
PLAN & PROFILE



Roxford Station - HS and PQ - (HS) Holocene stream channel, alluvial fan, flood plain, and dune deposits, fine to medium coarse grained. (PQ) Transitional materials. Uplifted, faulted, prepleistocene marine deposits.

Sylmar-Celito Line Clearance Unknown

4-200kV Lines Clearance Unknown



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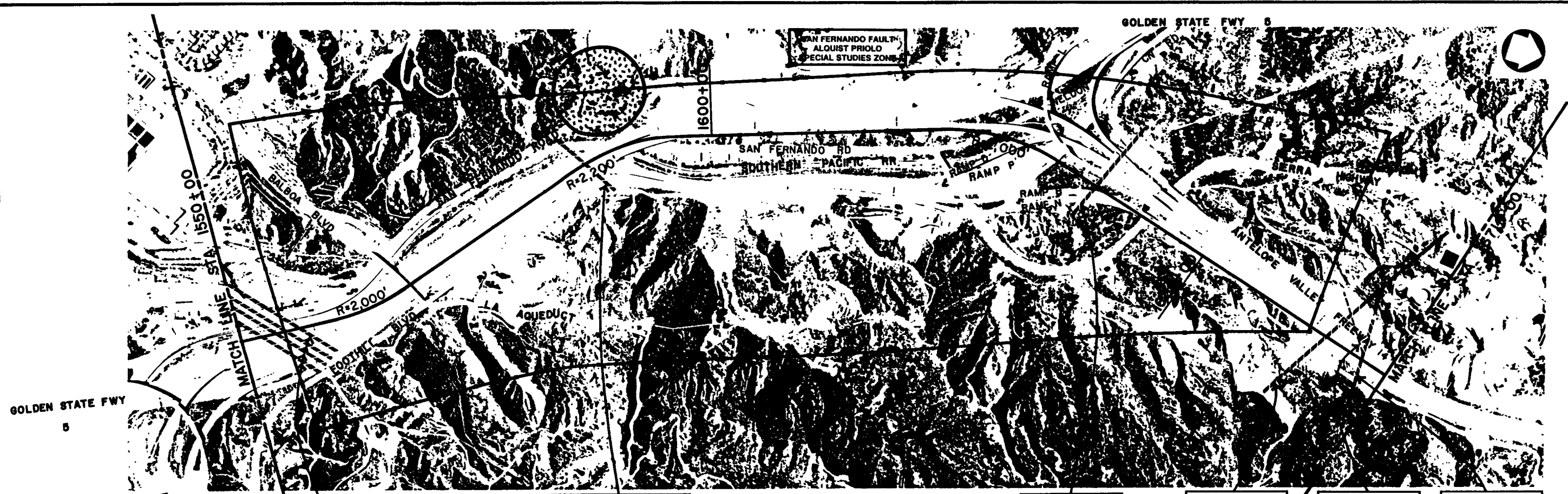
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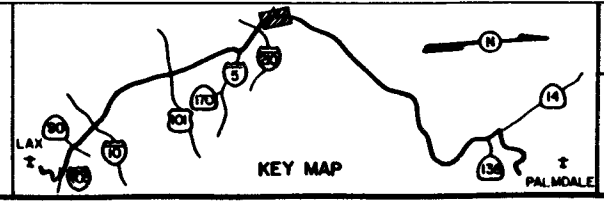
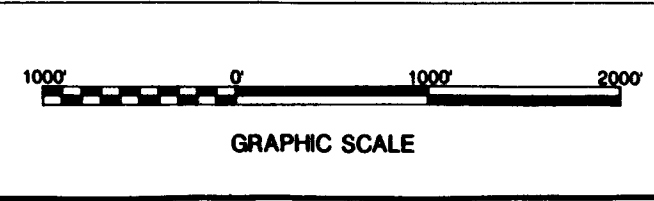
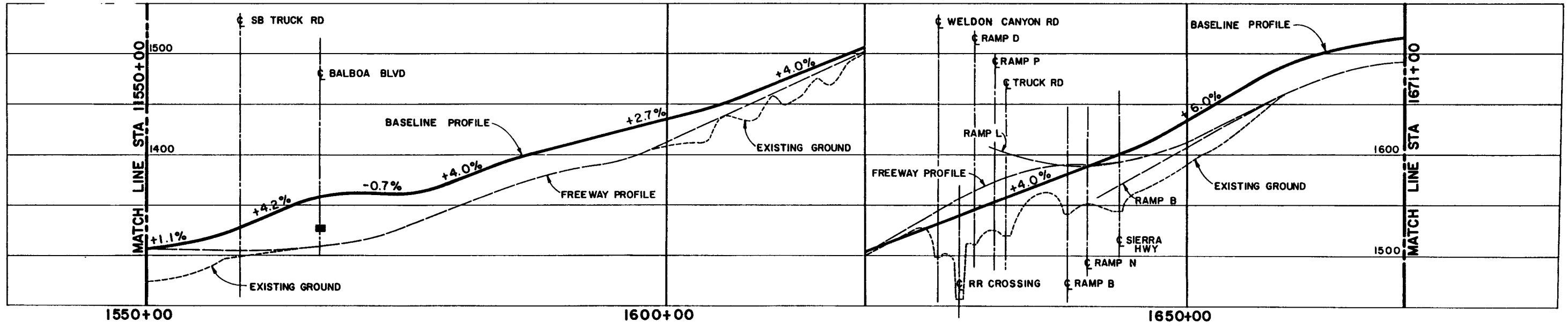
KEY INFORMATION ON SOILS, GEOLOGY,  
 AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
 STA 1430+00 TO STA 1550+00  
 PLAN & PROFILE

SHEET NO. 12



- 4-200kV Lines  
Clearance Unknown
- 2-66kV Apx. 80' Clearance  
Telephone Apx. 60' Clearance
- 2-66kV  
N/S Apx. 150' Clearance  
S/S Apx. 80' Clearance
- 3-220kV  
Apx. 24' Clearance
- Telephone  
Apx. 24' Clearance
- 16kV  
Apx. 28' Clearance



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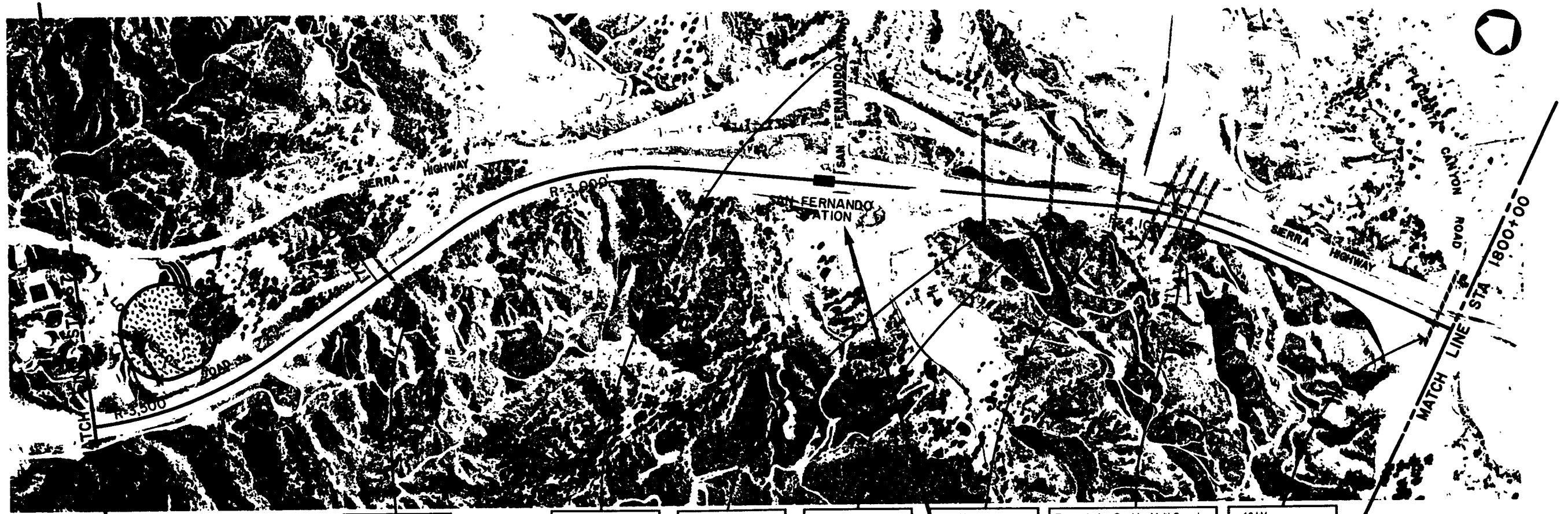
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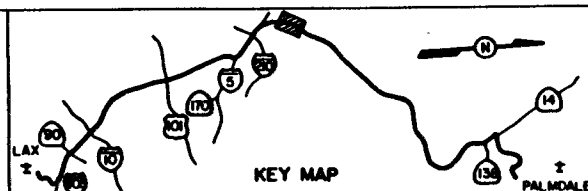
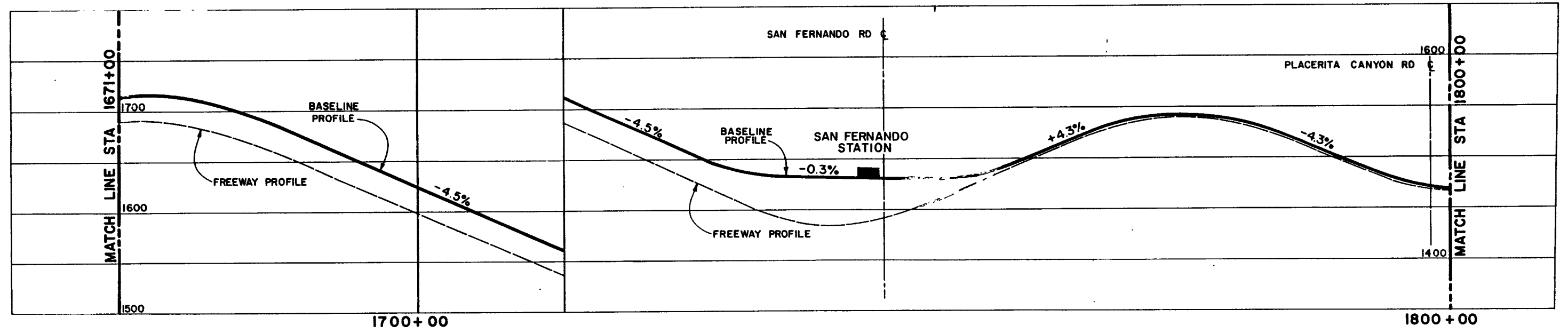
KEY INFORMATION ON SOILS, GEOLOGY, AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
 STA 1550+00 TO STA 1671+00  
 PLAN & PROFILE

SHEET NO. 13



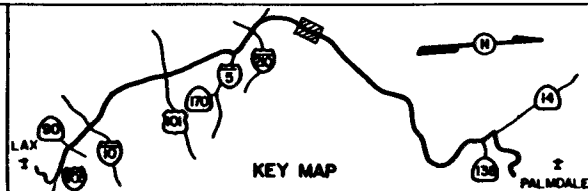
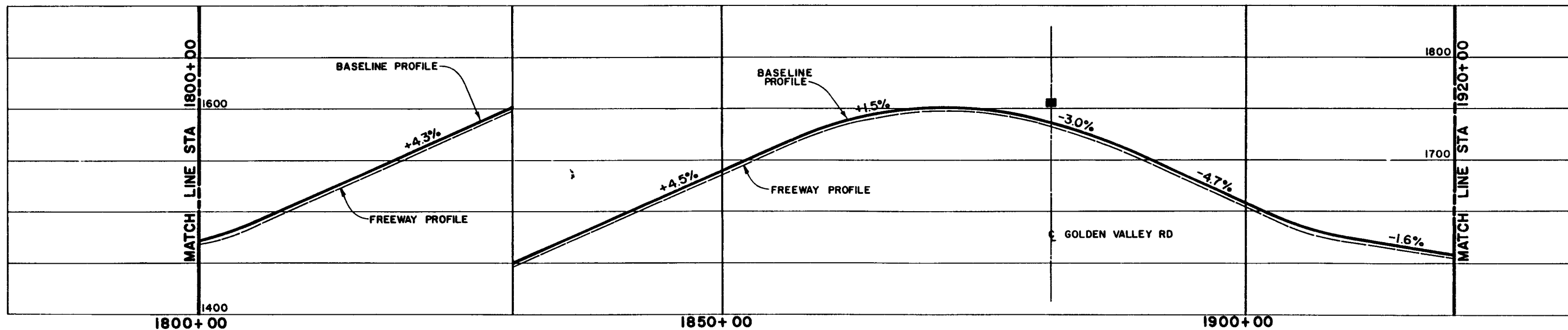
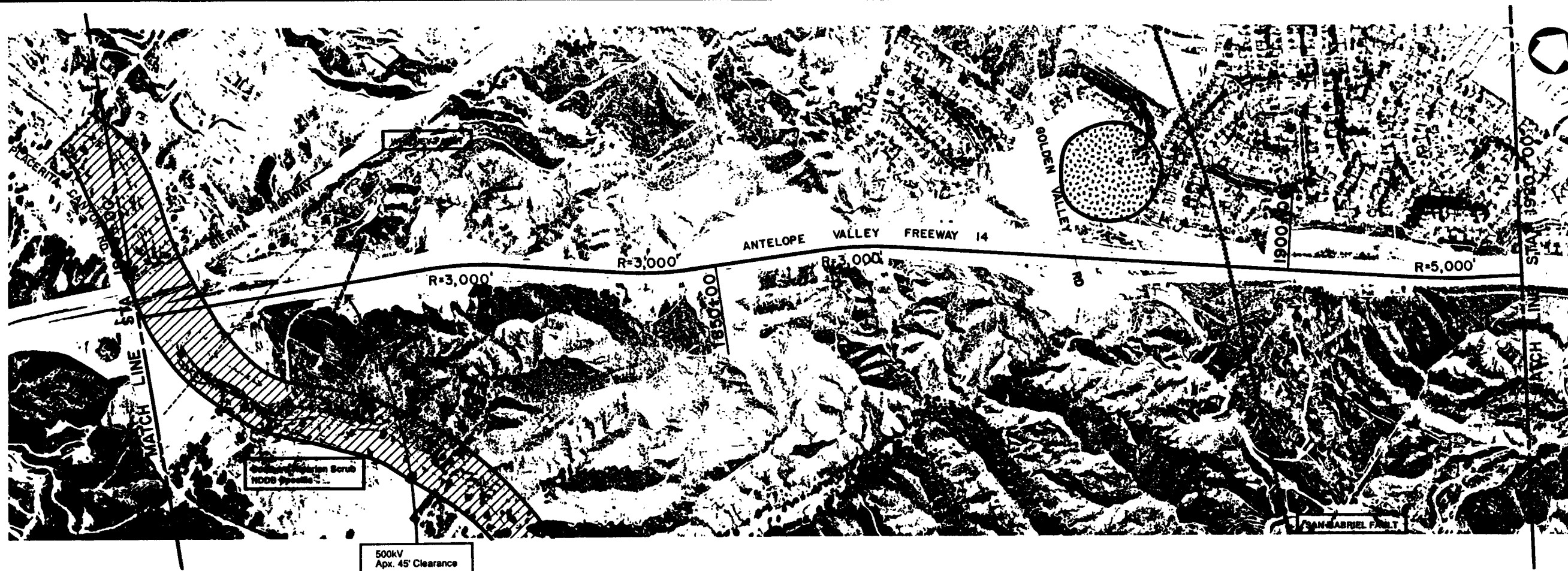
- 16kV  
Apx. 30' Clearance
  - 16kV  
Clearance Unknown
  - 16kV  
Apx. 55' Clearance
  - Telephone  
Apx. 30' Clearance
  - 16kV  
Apx. 25' Clearance
  - Transmission Corridor Multi-Crossing  
220kV & 750 DC Line  
Clearance Unknown
  - 16 kV  
Apx. 25' Clearance
- San Fernando Station - QS - Quaternary alluvium, coarse to fine grained.



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**KEY INFORMATION ON SOILS, GEOLOGY, AND BIOLOGICAL RESOURCES**  
**BASELINE ALIGNMENT**  
**STA 1671+00 TO STA 1800+00**  
**PLAN & PROFILE**

SHEET NO. 14



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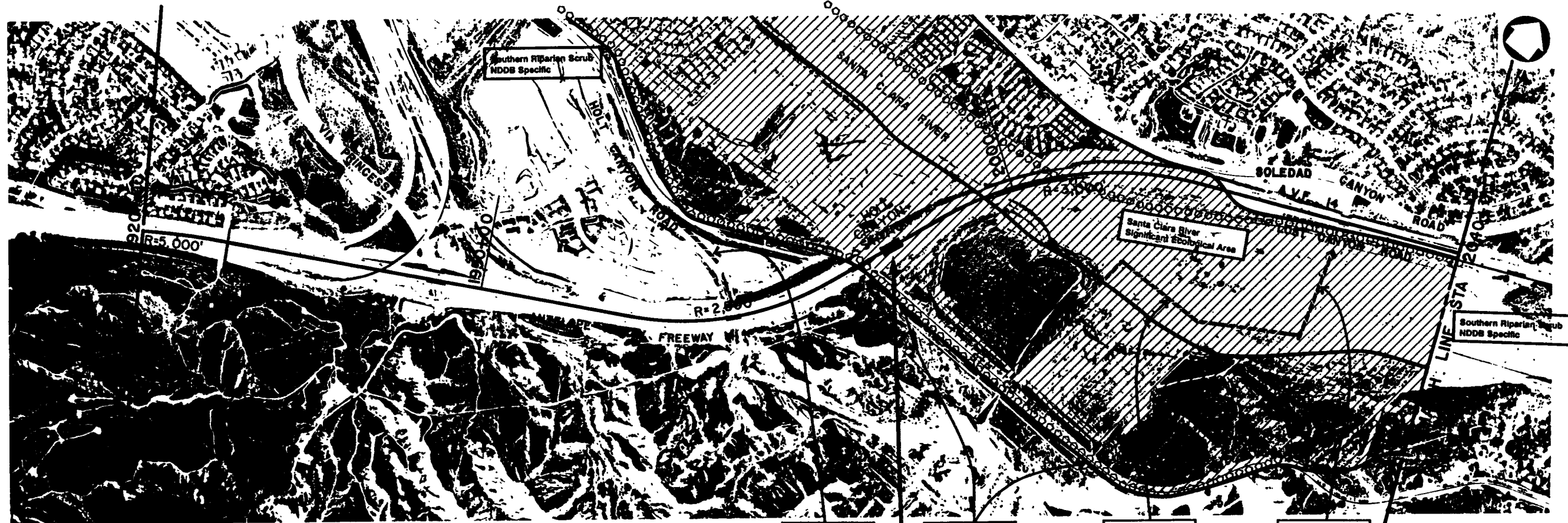
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KEY INFORMATION ON SOILS, GEOLOGY,  
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BASELINE ALIGNMENT  
ST. 1800+00 TO STA 1920+00  
PLAN & PROFILE

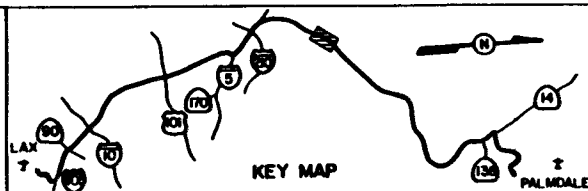
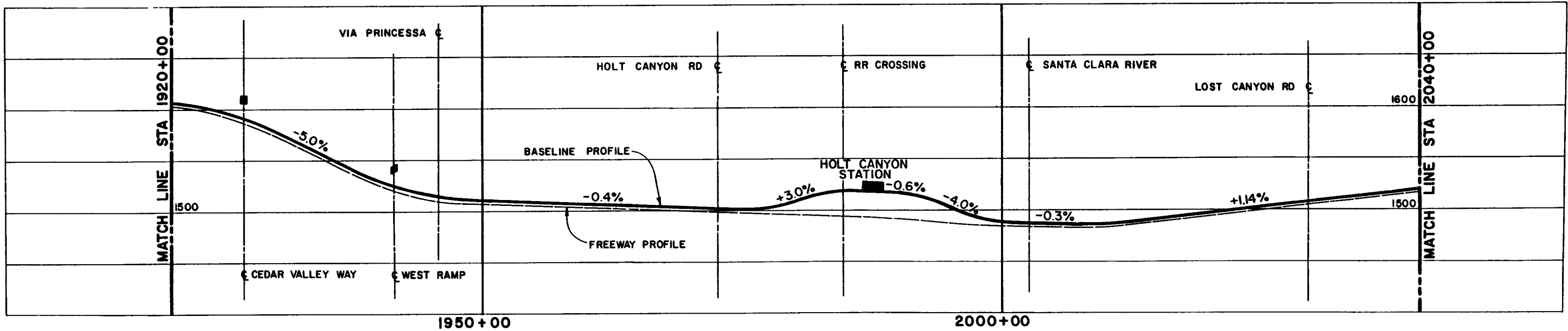
SHEET NO. 15





UG Conduit      Humphrey's Station      16kV OH      UG 16kV

Holt Canyon Station - Tah or QS - (TS) Tertiary shale.  
(GS) Quaternary alluvium.



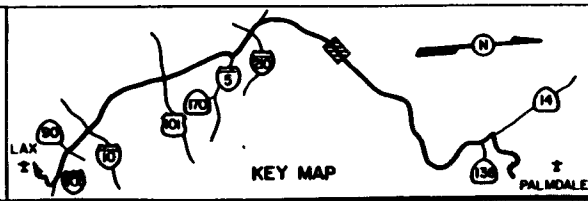
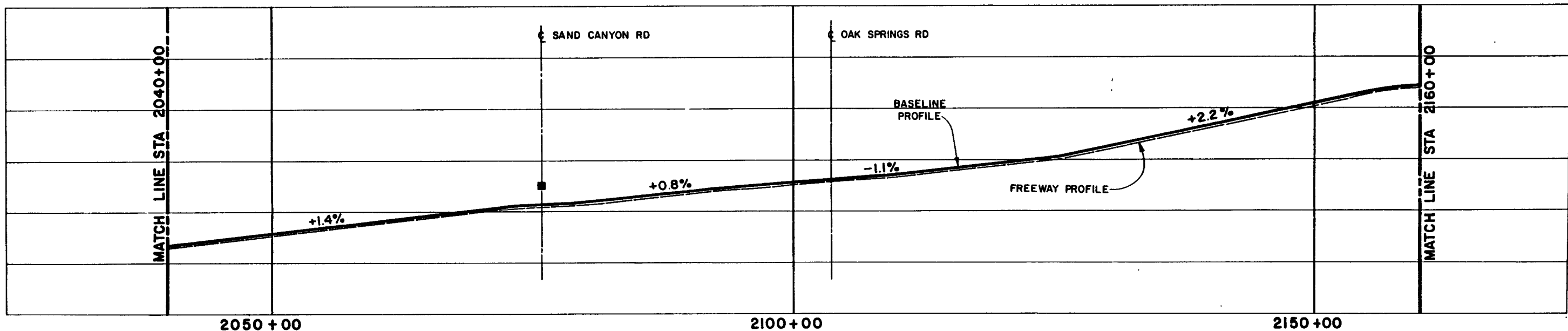
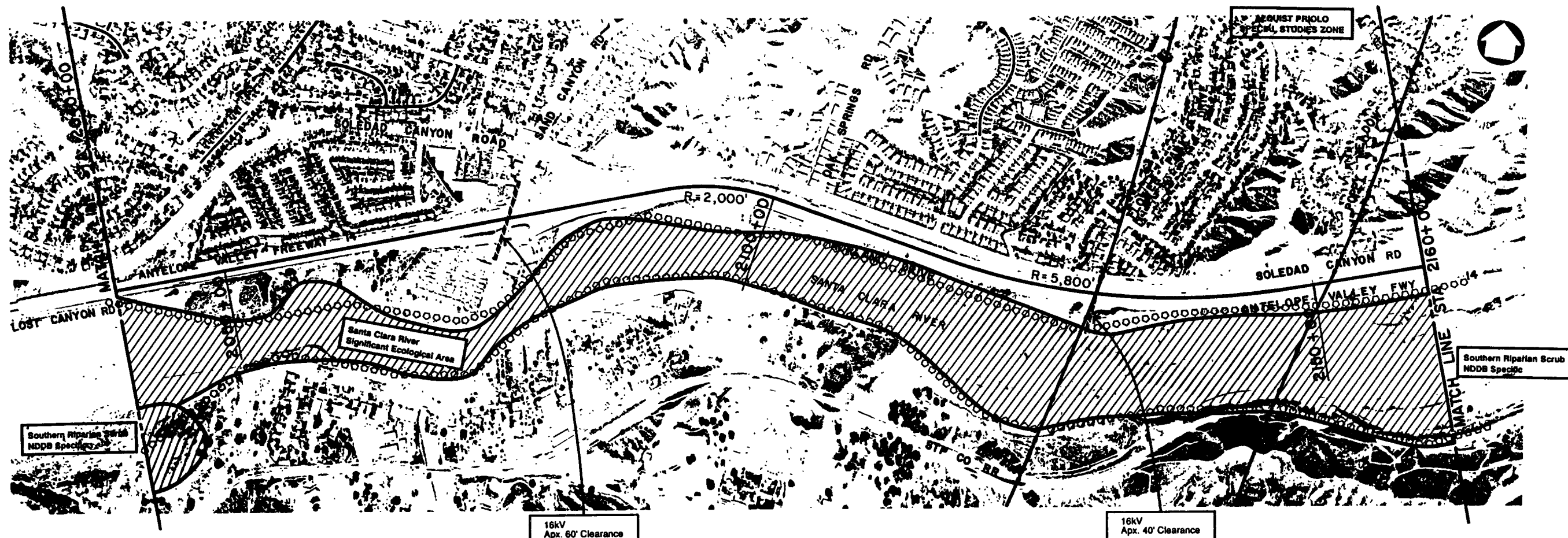
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KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 1920+00 TO STA 2040+00  
PLAN & PROFILE



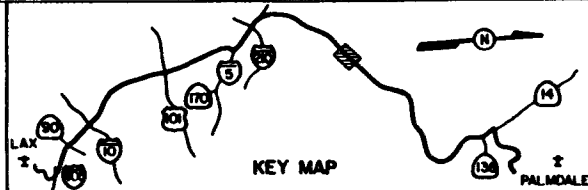
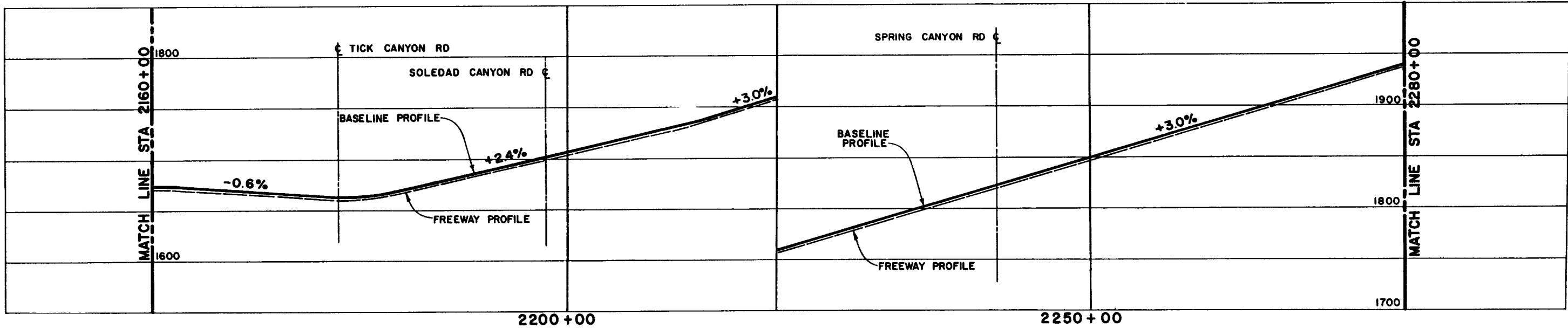
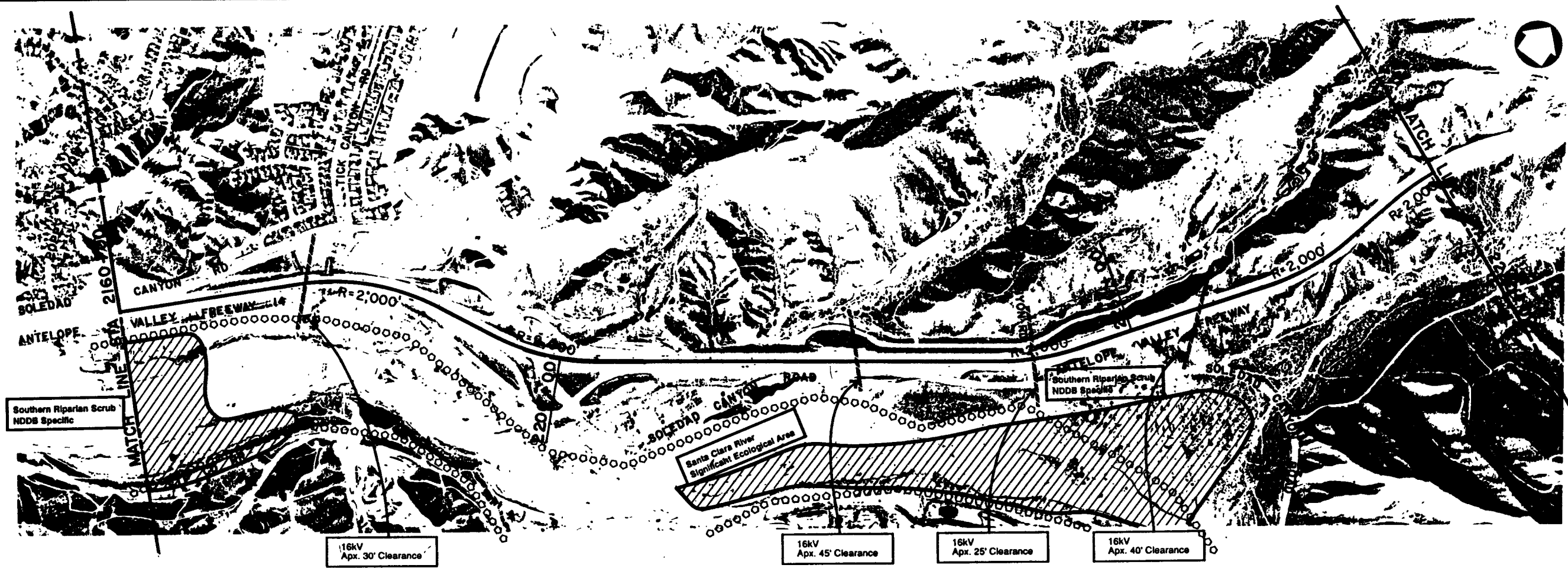
**M** LOS ANGELES COUNTY TRANSPORTATION COMMISSION  
 LAX - Palmdale Advanced Technology Demonstration Project


Parsons  
 Brinckerhoff  
 Quade &  
 Douglas, Inc.

Myra L.  
 Frank &  
 Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
 AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
 STA 2040+00 TO STA 2160+00  
 PLAN & PROFILE

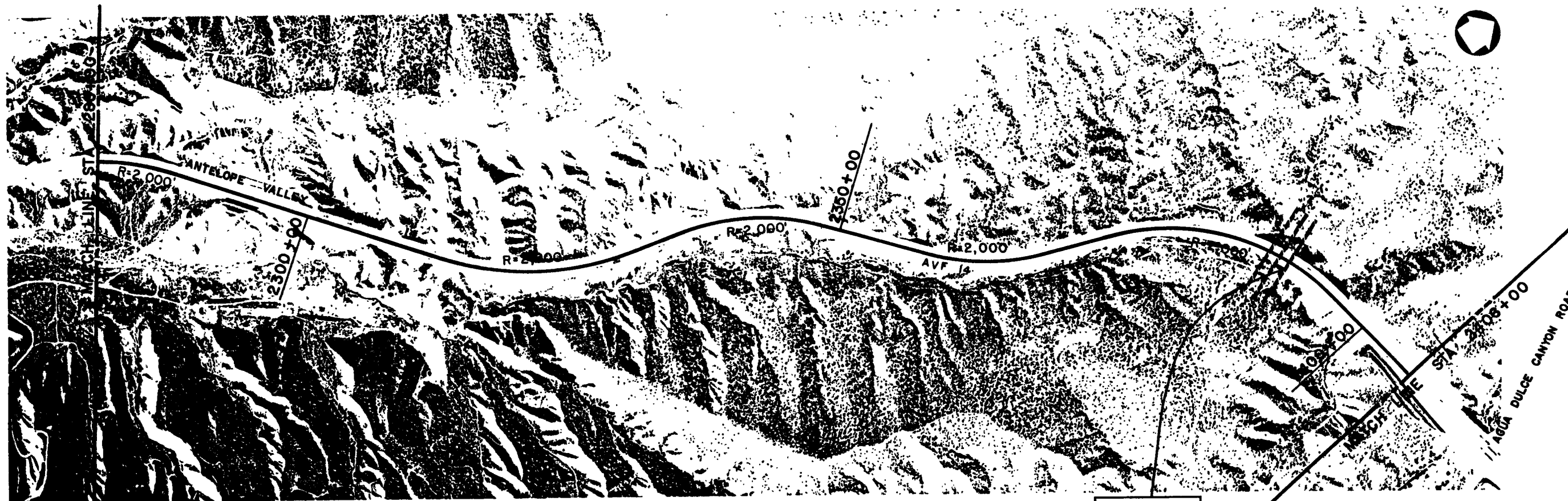



**LOS ANGELES COUNTY TRANSPORTATION COMMISSION**  
 LAX - Palmdale Advanced Technology Demonstration Project  
**Parsons Brinckerhoff Quade & Douglas, Inc.**

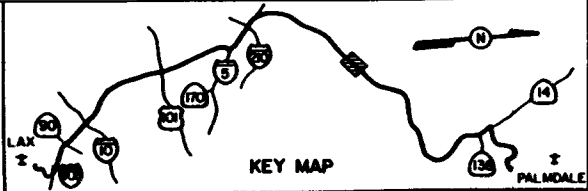
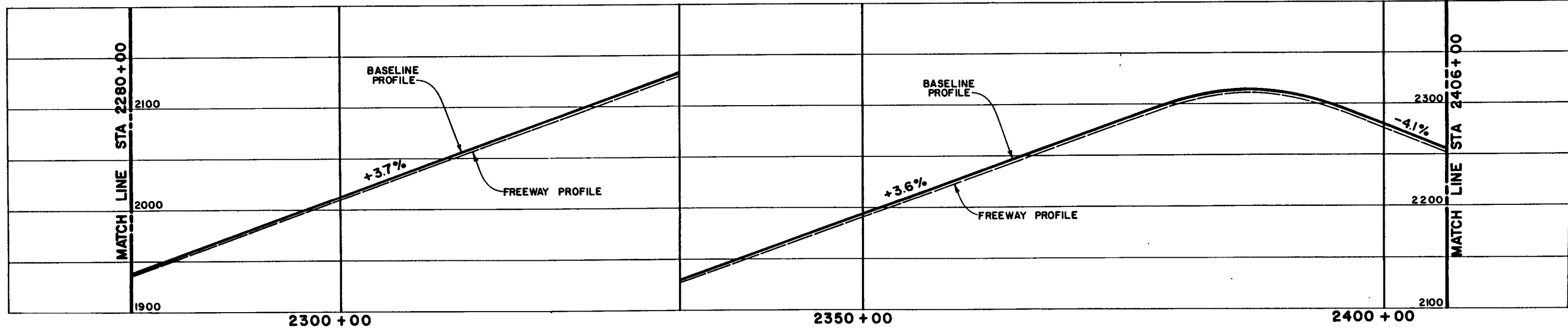
**Myra L. Frank & Associates, Inc.**

**KEY INFORMATION ON SOILS, GEOLOGY, AND BIOLOGICAL RESOURCES**

**BASELINE ALIGNMENT**  
**STA 2160+00 TO STA 2280+00**  
**PLAN & PROFILE**



2-220kV  
1-500kV Line  
Est. App. 60'



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Brinckerhoff  
Quade &  
Douglas, Inc.

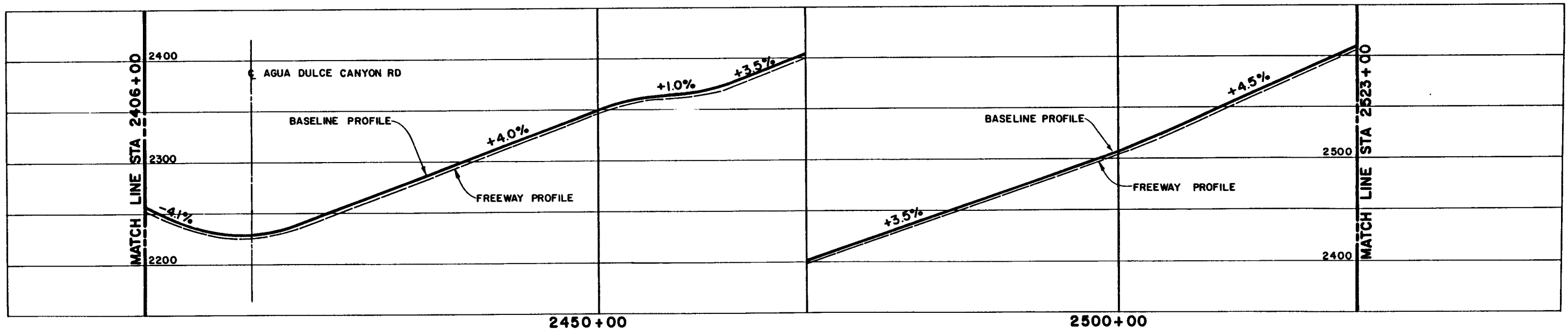
Myra L.  
Frank &  
Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

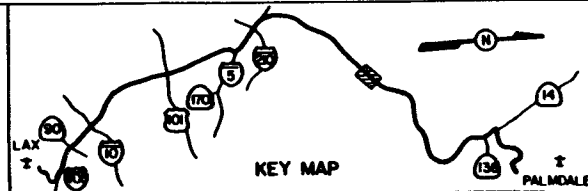
BASELINE ALIGNMENT  
STA 2280+00 TO STA 2406+00  
PLAN & PROFILE

Southern Riparian Scrub  
NDDB Specific

16kV  
Apr. 30' Clearance



GRAPHIC SCALE



KEY MAP



LOS ANGELES COUNTY TRANSPORTATION COMMISSION  
LAX- Palmdale Advanced Technology Demonstration Project

Parsons  
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Quade &  
Douglas, Inc.

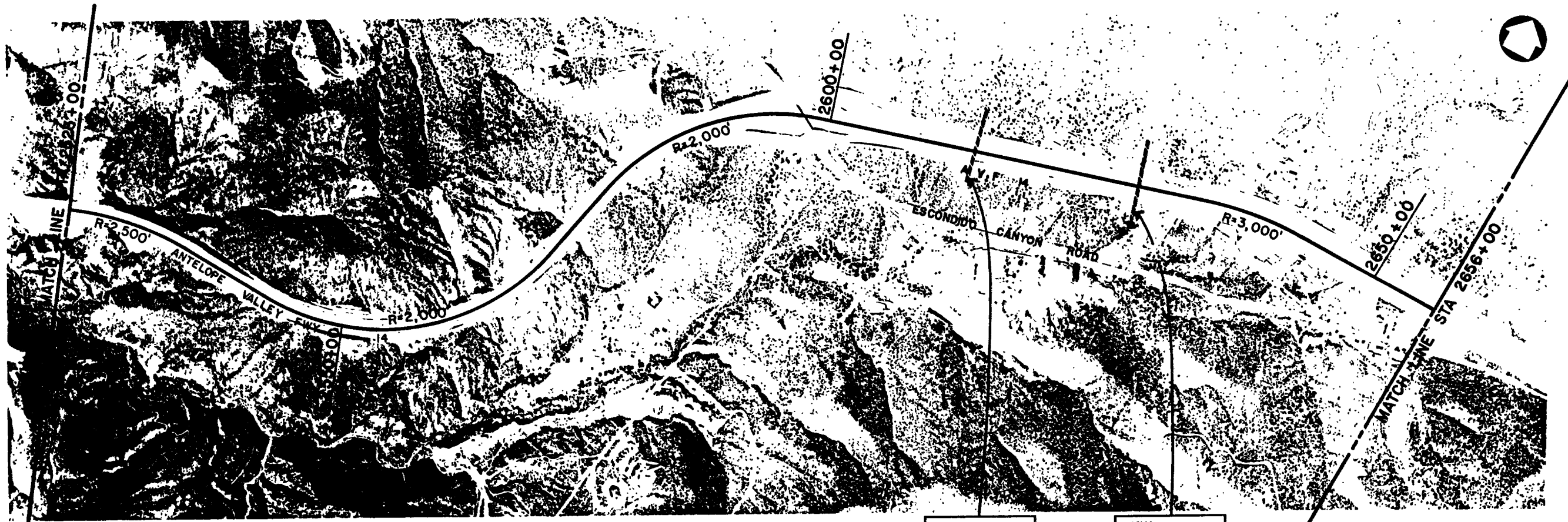
Myra L.  
Frank &  
Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 2406+00 TO STA 2523+00  
PLAN & PROFILE

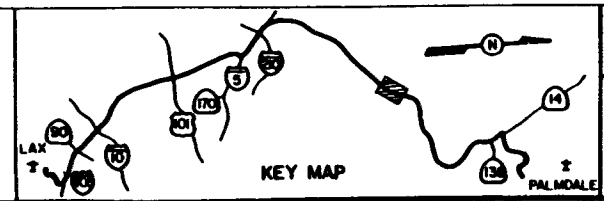
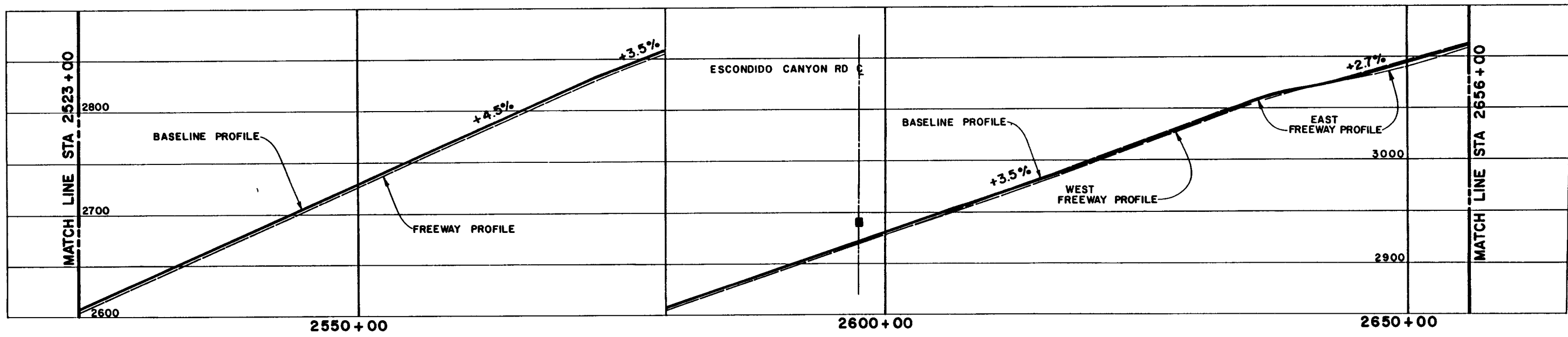
SHEET NO. 20





12kV  
Apr. 40' Clearance

12kV  
Apr. 30' Clearance



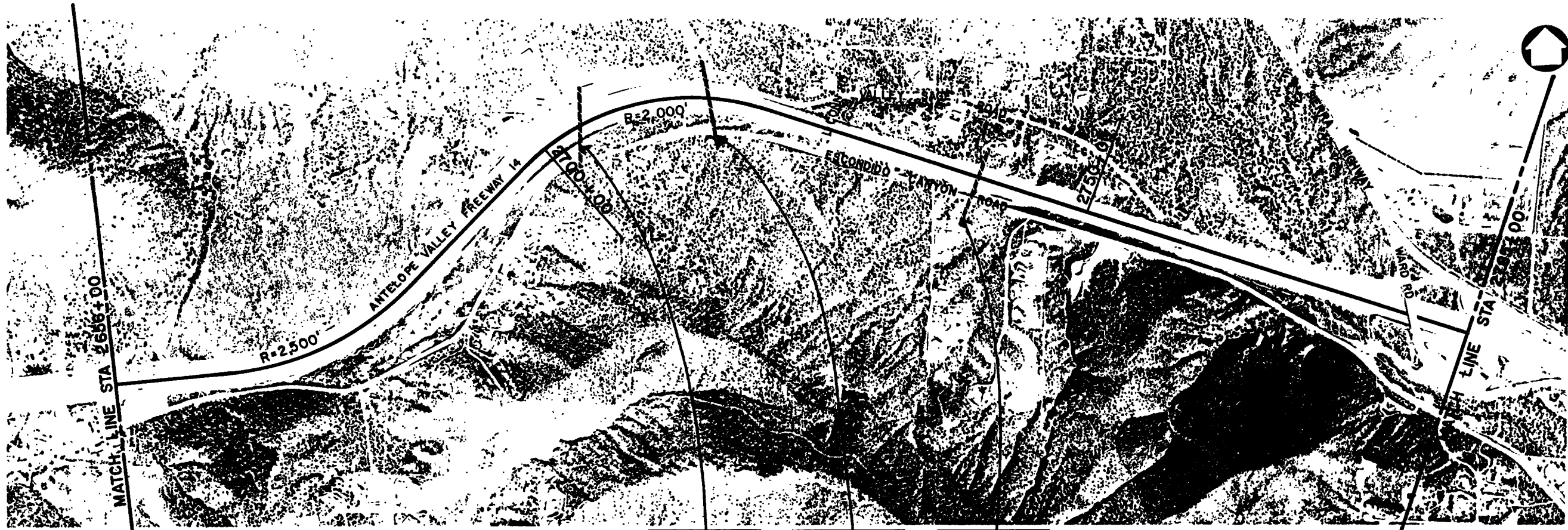
**M** LOS ANGELES COUNTY TRANSPORTATION COMMISSION  
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Parsons  
Brinckerhoff  
Quade &  
Douglas, Inc.

Myra L.  
Frank &  
Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

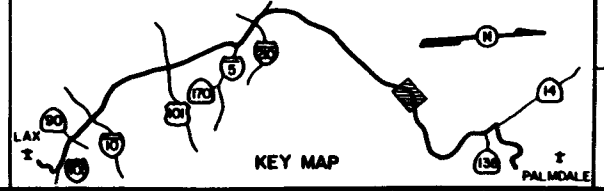
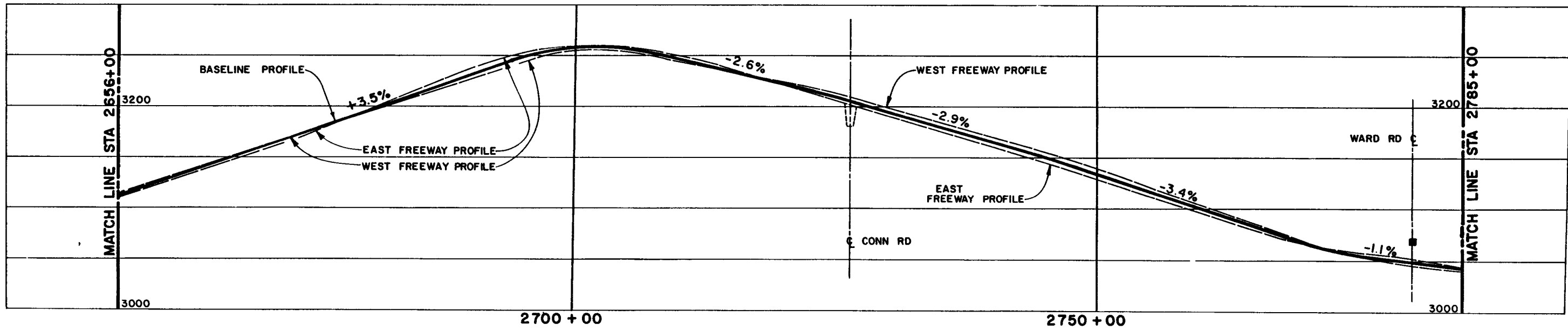
BASELINE ALIGNMENT  
STA 2523+00 TO STA 2656+00  
PLAN & PROFILE



12kV  
Apx. 40' Clearance

12kV  
Apx. 45' Clearance

12kV  
Apx. 35' Clearance



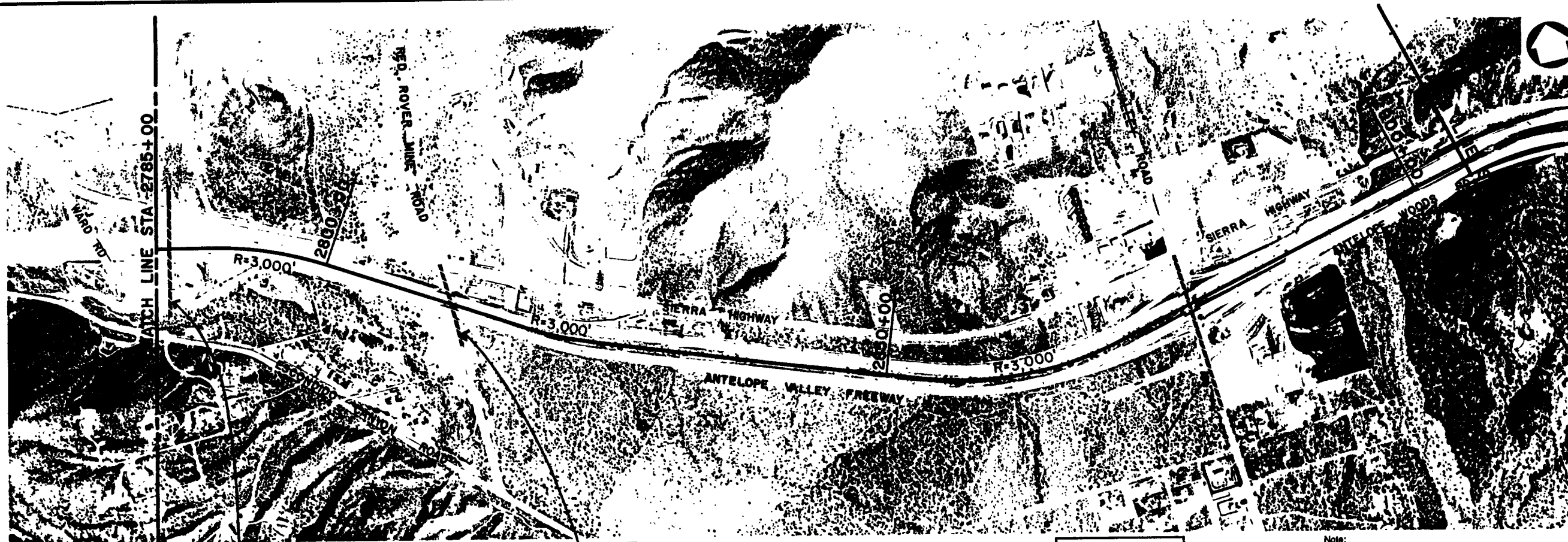
**M** LOS ANGELES COUNTY TRANSPORTATION COMMISSION  
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Brinckerhoff  
Quade &  
Douglas, Inc.*

*Myra L.  
Frank &  
Associates, Inc.*

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

**BASLINE ALIGNMENT  
STA 2656+00 TO STA 2785+00  
PLAN & PROFILE**

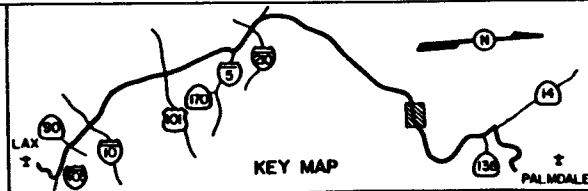
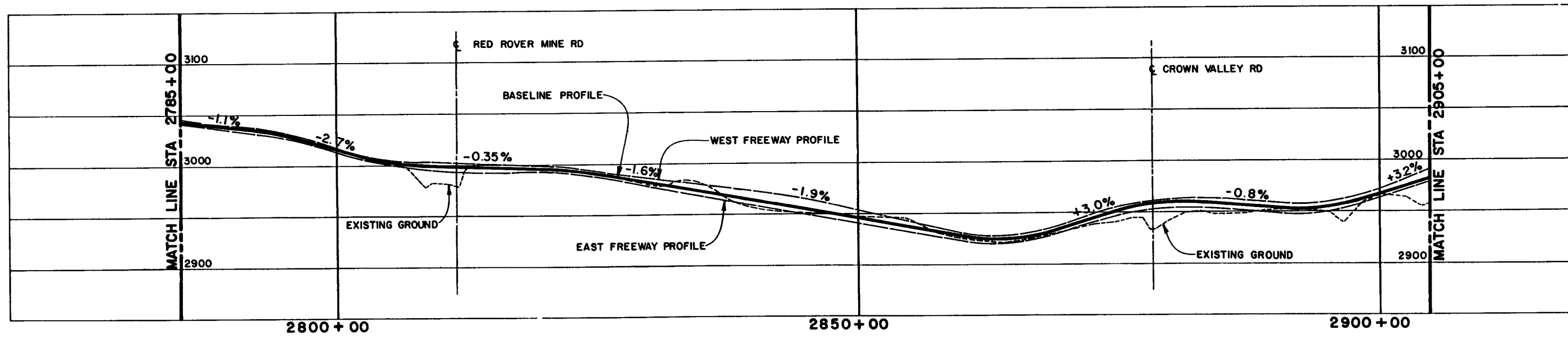


12kV  
Apx. 35' Clearance

12kV  
Apx. 30' Clearance

SCE 12kV Apx. Height 28'

Note:  
 • All approx. clearances are measured from existing grade.  
 • Information regarding utility locations and/or easements was provided by Southern California Edison Company without representation or warranty. LACTC does not represent or warrant the accuracy, completeness or correctness of utility relocations or easements noted herein.



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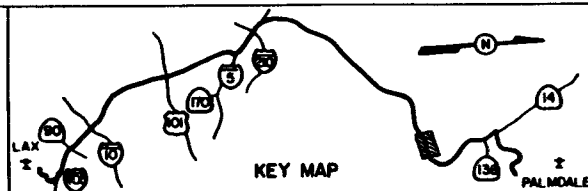
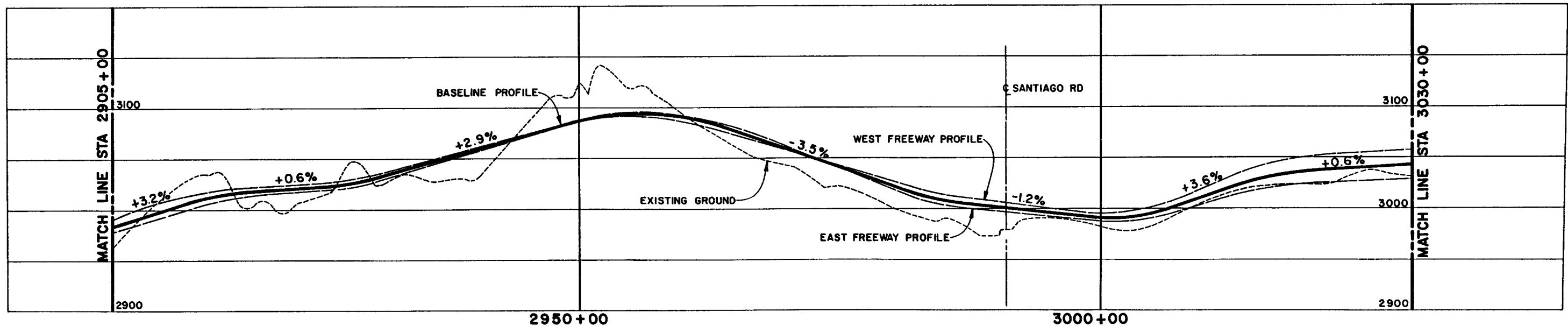
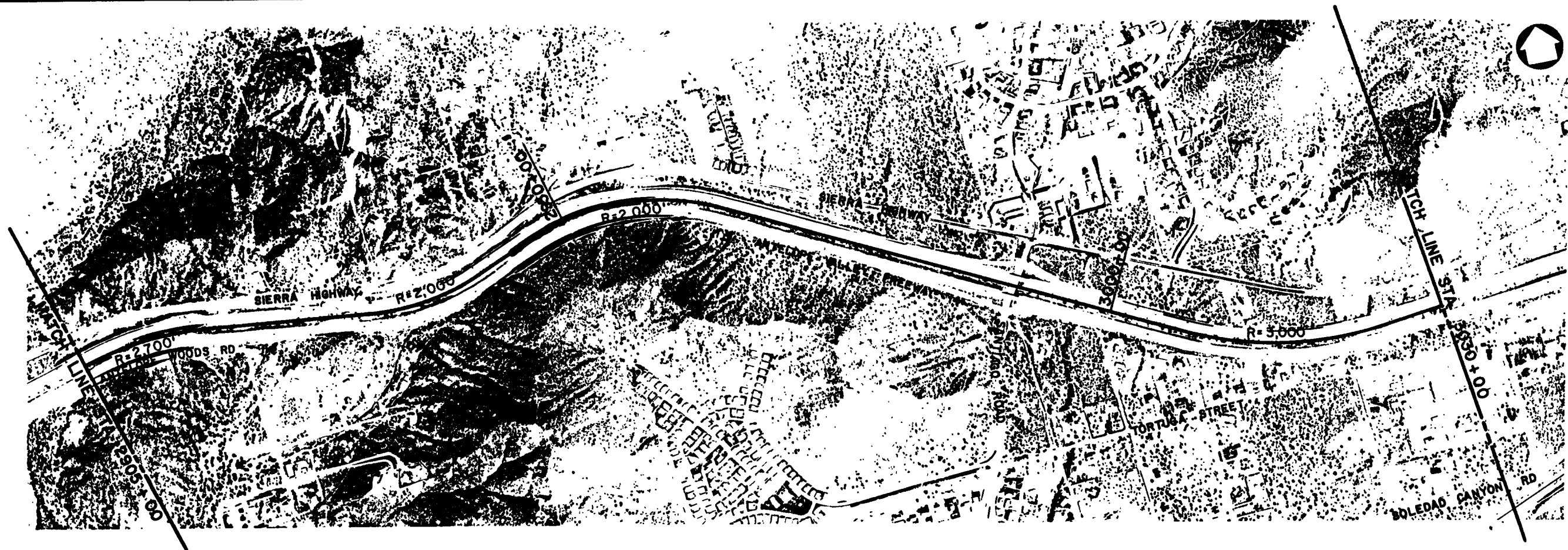
Parsons  
 Brinckerhoff  
 Quade &  
 Douglas, Inc.

Myra L.  
 Frank &  
 Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
 AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
 STA 2785+00 TO STA 2905+00  
 PLAN & PROFILE

SHEET NO. 23



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 LAX- Palmdale Advanced Technology Demonstration Project

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 Quade &  
 Douglas, Inc.

Myra L.  
 Frank &  
 Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
 AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
 STA 2905+00 TO STA 3030+00  
 PLAN & PROFILE





Note:  
 • All approx. clearances are measured from existing grade.  
 • Information regarding utility locations and/or easements was provided by Southern California Edison Company without representation or warranty. LACTC does not represent or warrant the accuracy, completeness or correctness of utility relocations or easements noted herein.

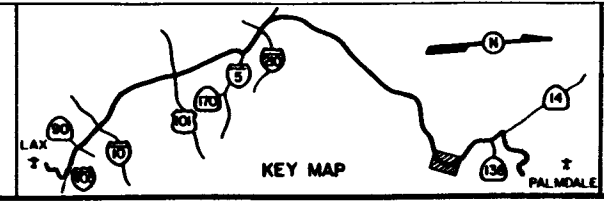
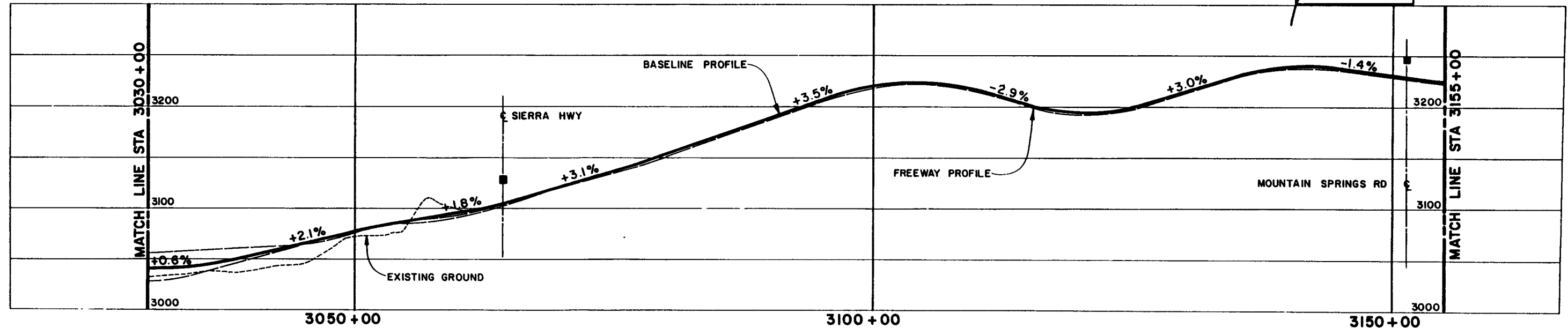
SCE 12kV (Spur 12kV)  
 Apx. 38' Clearance

SCE 12kV (Spur 12kV)  
 Apx. 43' Clearance

SCE Midway - Vincent #2  
 500kV Apx. Clearance

SCE Midway - Vincent #3  
 500kV Apx. Clearance  
 SCE Midway - Vincent #1  
 500kV Apx. Clearance  
 SCE 12kV (spur 12kV)  
 Apx. 35' Clearance

SCE 12kV (Spur 12kV)  
 Apx. 27' Clearance  
 SCE Seawest 220kV  
 Clearance Unknown  
 SCE Antelope-Mesa 220kV  
 Clearance Unknown  
 SCE Antelope-Vincent 220kV  
 Clearance Unknown



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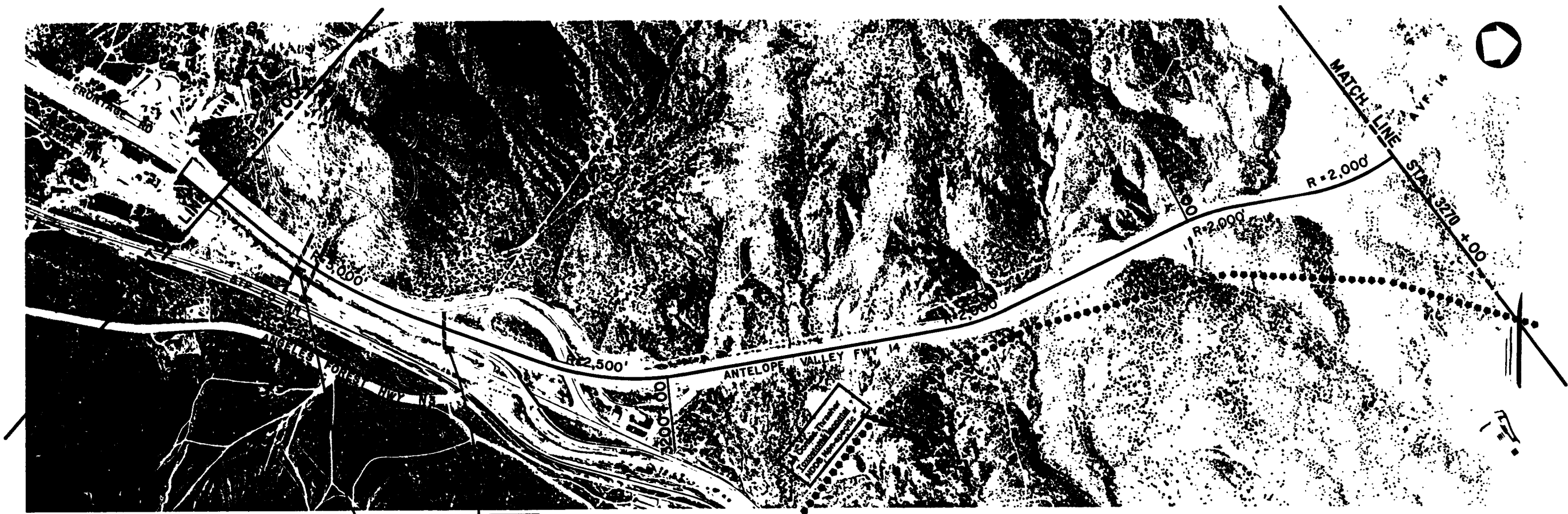
Parsons  
 Brinckerhoff  
 Quade &  
 Douglas, Inc.

Myra L.  
 Frank &  
 Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
 AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
 STA 3030+00 TO STA 3155+00  
 PLAN & PROFILE

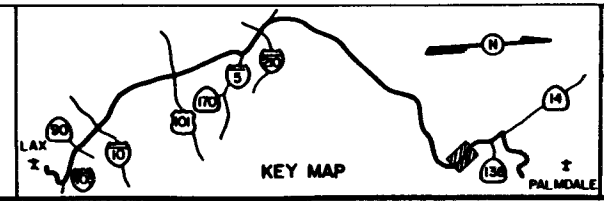
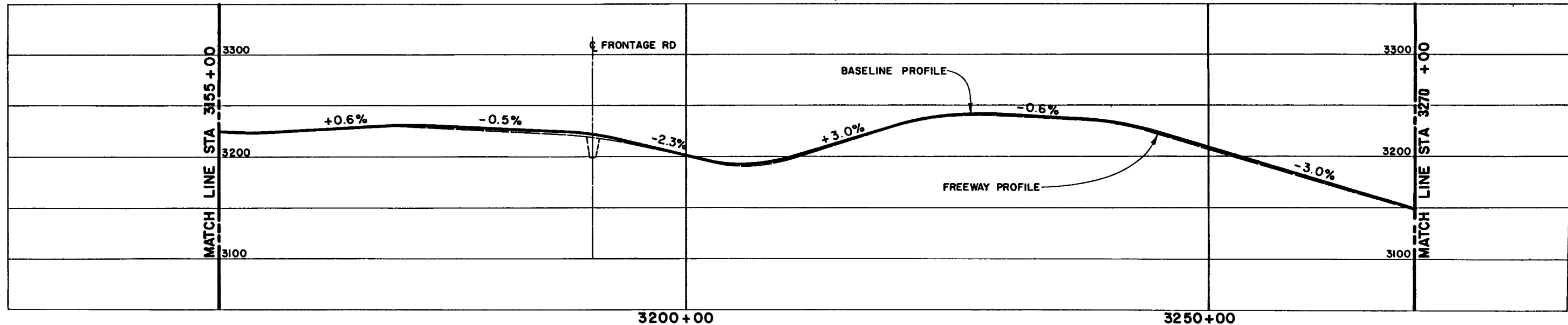




SCE 12kV (Spur 12kV)  
Apx. 23' Clearance

DWP 500kV Circuit  
Clearance Unknown

Note:  
 • All approx. clearances are measured from existing grade.  
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LAX - Palmdale Advanced Technology Demonstration Project

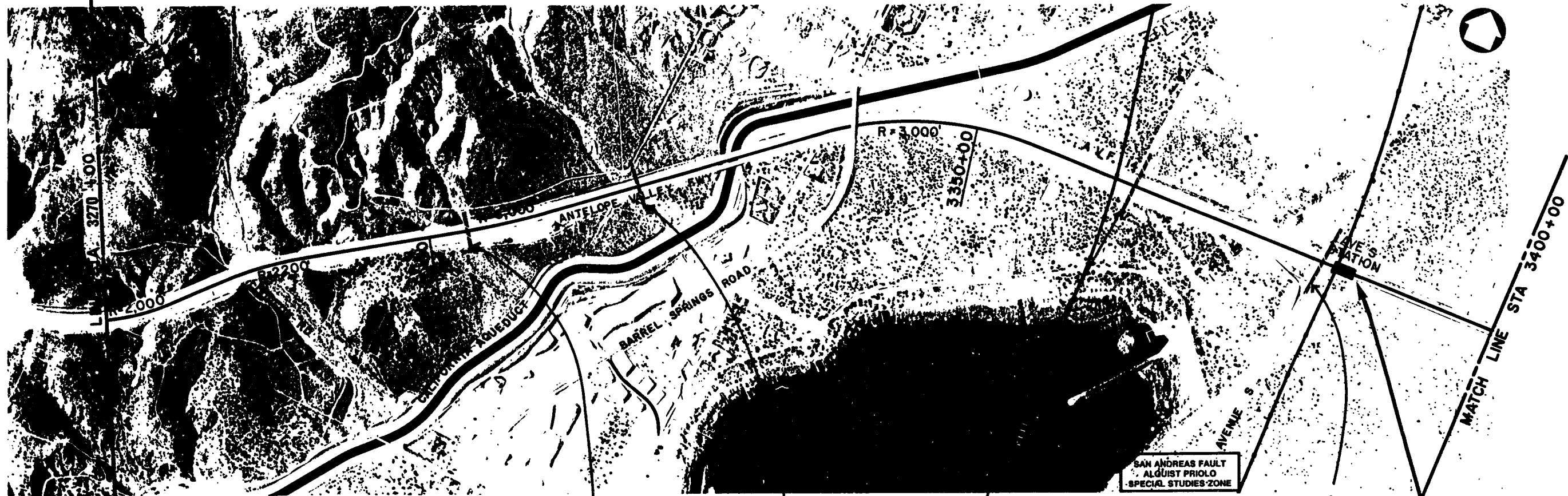
**Parsons  
Brinckerhoff  
Quade &  
Douglas, Inc.**

**Myra L.  
Frank &  
Associates, Inc.**

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

**BASELINE ALIGNMENT  
STA 3155+00 TO STA 3270  
PLAN & PROFILE**

SHEET NO. 26



Note:  
 • All approx. clearances are measured from existing grade.  
 • Information regarding utility locations and/or easements was provided by Southern California Edison Company without representation or warranty. LACTC does not represent or warrant the accuracy, completeness or correctness of utility relocations or easements noted herein.

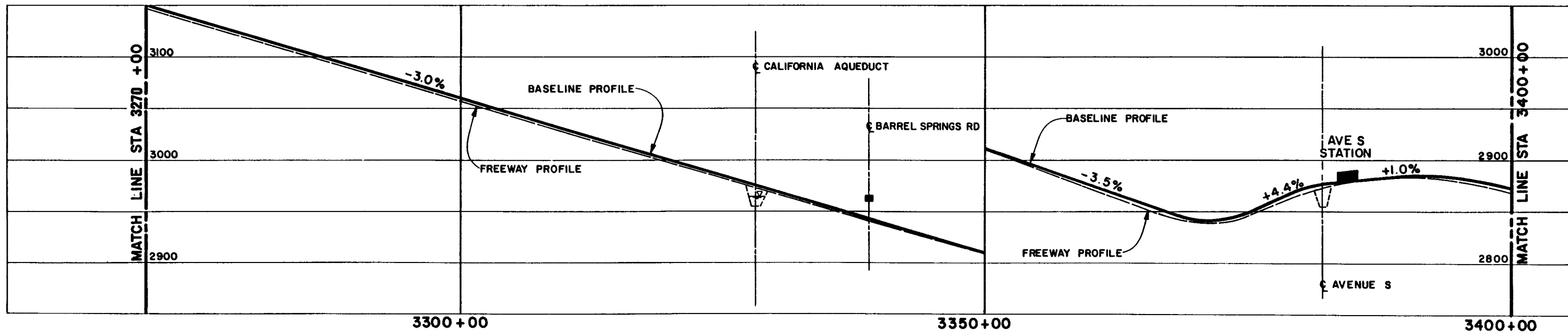
SCE Leona 12kV  
 Apr. 26' Clearance

SCE Leona 12kV  
 Apr. 35' Clearance

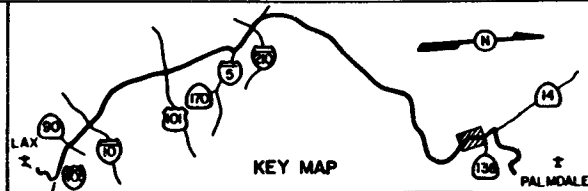
SCE Leona 12kV  
 Apr. 26' Clearance

SCE Leona 12kV  
 Apr. 32' Clearance

Avenue S Station - OS - Quaternary shale.



GRAPHIC SCALE



KEY MAP

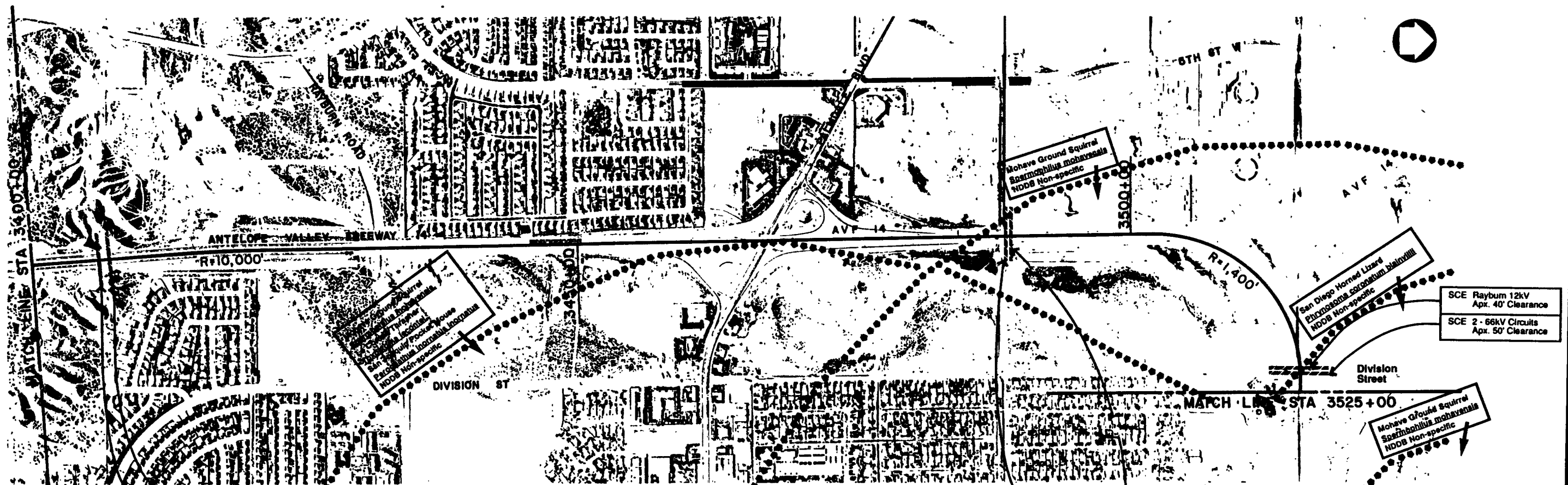
**M** LOS ANGELES COUNTY TRANSPORTATION COMMISSION  
 LAX- Palmdale Advanced Technology Demonstration Project

Parsons  
 Brinckerhoff  
 Quade &  
 Douglas, Inc.

Myra L.  
 Frank &  
 Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
 AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
 STA 3270 TO STA 3400+00  
 PLAN & PROFILE

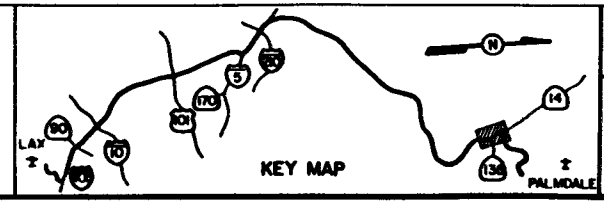
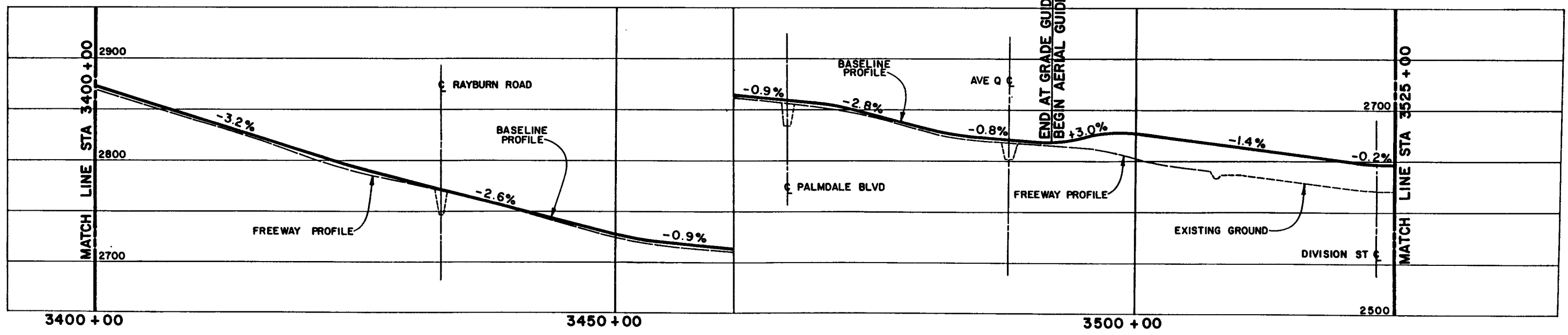


SCE Quinby 12kV, Apx. 80' Clearance  
Acton 12kV, Apx. 80' Clearance  
SCE 66kV  
Apx. 90' Clearance

SCE 66kV  
Apx. 36' Clearance  
SCE Rayburn 12kV  
Apx. 24' Clearance

SCE Rayburn 12kV  
Apx. 40' Clearance  
SCE 2 - 66kV Circuits  
Apx. 50' Clearance

Note:  
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• Information regarding utility locations and or easements was provided by Southern California Edison Company without representation or warranty. LACTC does not represent or warrant the accuracy, completeness or correctness of utility relocations or easements noted hereon.



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LAX- Palmdale Advanced Technology Demonstration Project

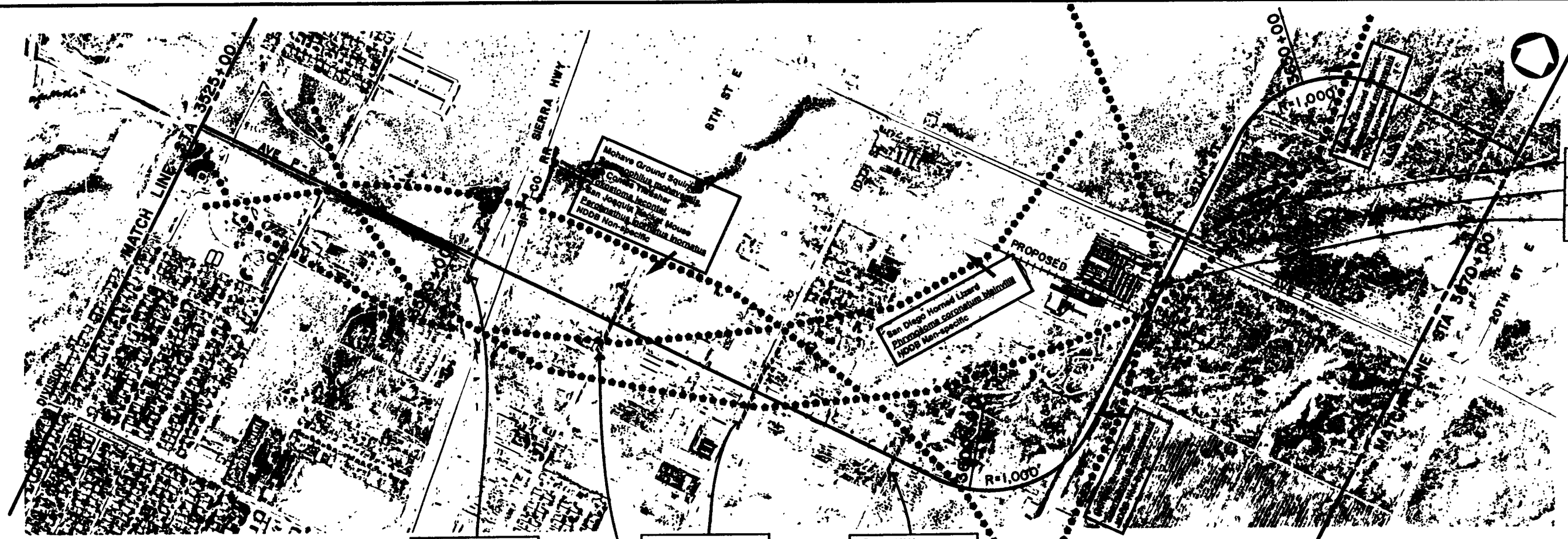
Parsons  
Brinckerhoff  
Quade &  
Douglas, Inc.

Myra L.  
Frank &  
Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 3400+00 TO STA 3525+00  
PLAN & PROFILE

SHEET NO. 28



66kV Circuit - Wood Poles  
Apx. 50' Clearance

Beone 12kV  
Apx. 38' Clearance

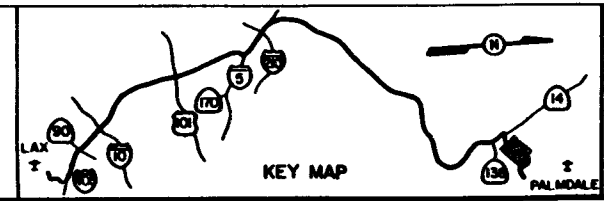
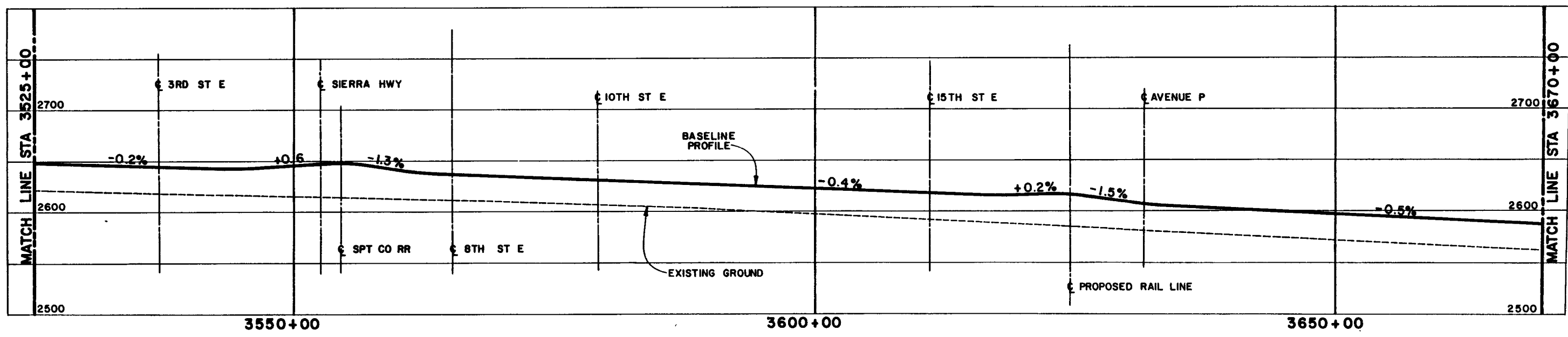
Beone 12kV  
Apx. 35' Clearance  
W/S of 15th St. East

Rayburn 12kV  
12kV Apx. 40' Clearance  
240V Apx. 34' Clearance

Beone 12kV  
Apx. 45' Clearance

Beone 12kV  
Apx. 38' Clearance

Beone 12kV  
12kV Apx. 39' Clearance  
240V Apx. 29' Clearance



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LAX- Palmdale Advanced Technology Demonstration Project

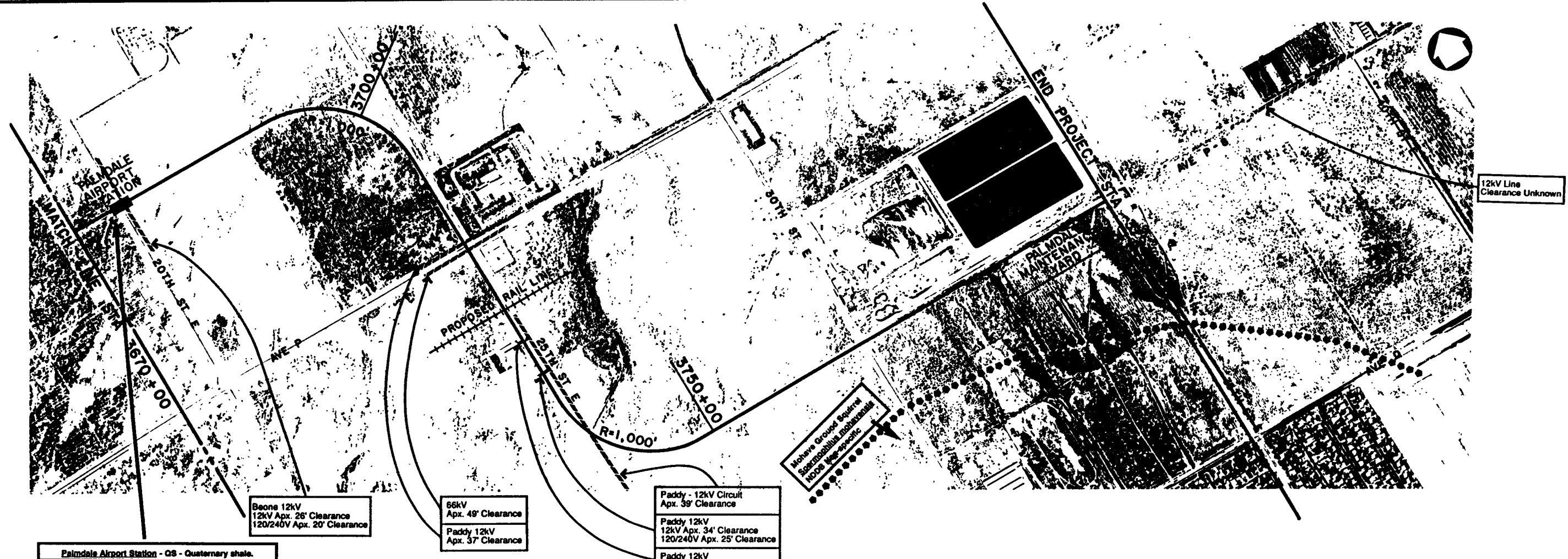
Parsons  
Brinckerhoff  
Quade &  
Douglas, Inc.

Myra L.  
Frank &  
Associates, Inc.

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 3525+00 TO STA 3670+00  
PLAN & PROFILE

SHEET NO. 29



Palmdale Airport Station - GS - Quaternary shale.

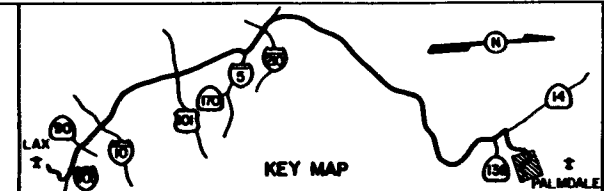
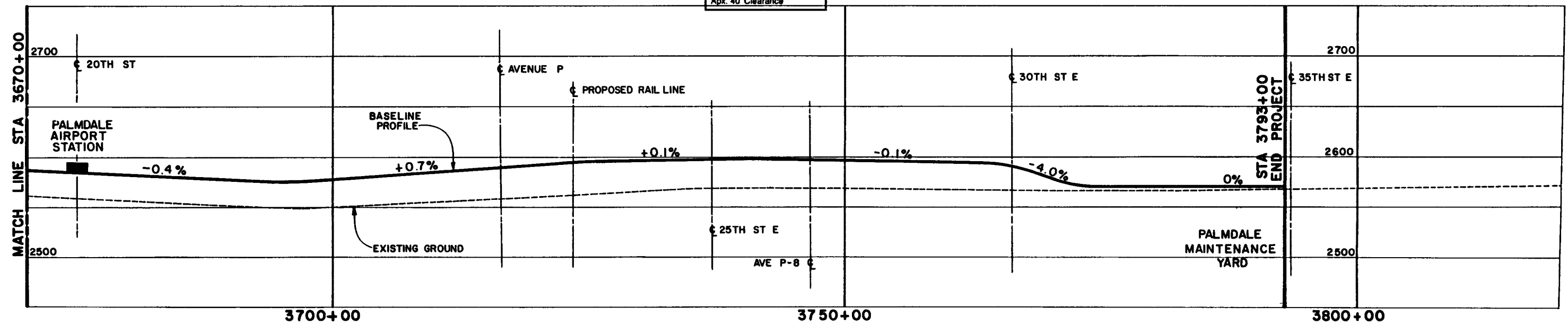
Beone 12kV  
12kV Apx. 28' Clearance  
120/240V Apx. 20' Clearance

66kV  
Apx. 49' Clearance  
Paddy 12kV  
Apx. 37' Clearance

Paddy - 12kV Circuit  
Apx. 39' Clearance  
Paddy 12kV  
12kV Apx. 34' Clearance  
120/240V Apx. 25' Clearance  
Paddy 12kV  
Apx. 40' Clearance

Mohave Group Sealed  
Sparrowbill Inhabitable  
NOB Non-specific

12kV Line  
Clearance Unknown



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Quade &  
Douglas, Inc.*

*Myra L.  
Frank &  
Associates, Inc.*

KEY INFORMATION ON SOILS, GEOLOGY,  
AND BIOLOGICAL RESOURCES

BASELINE ALIGNMENT  
STA 3670+00 TO STA 3793+00  
PLAN & PROFILE

SHEET NO. 30



