

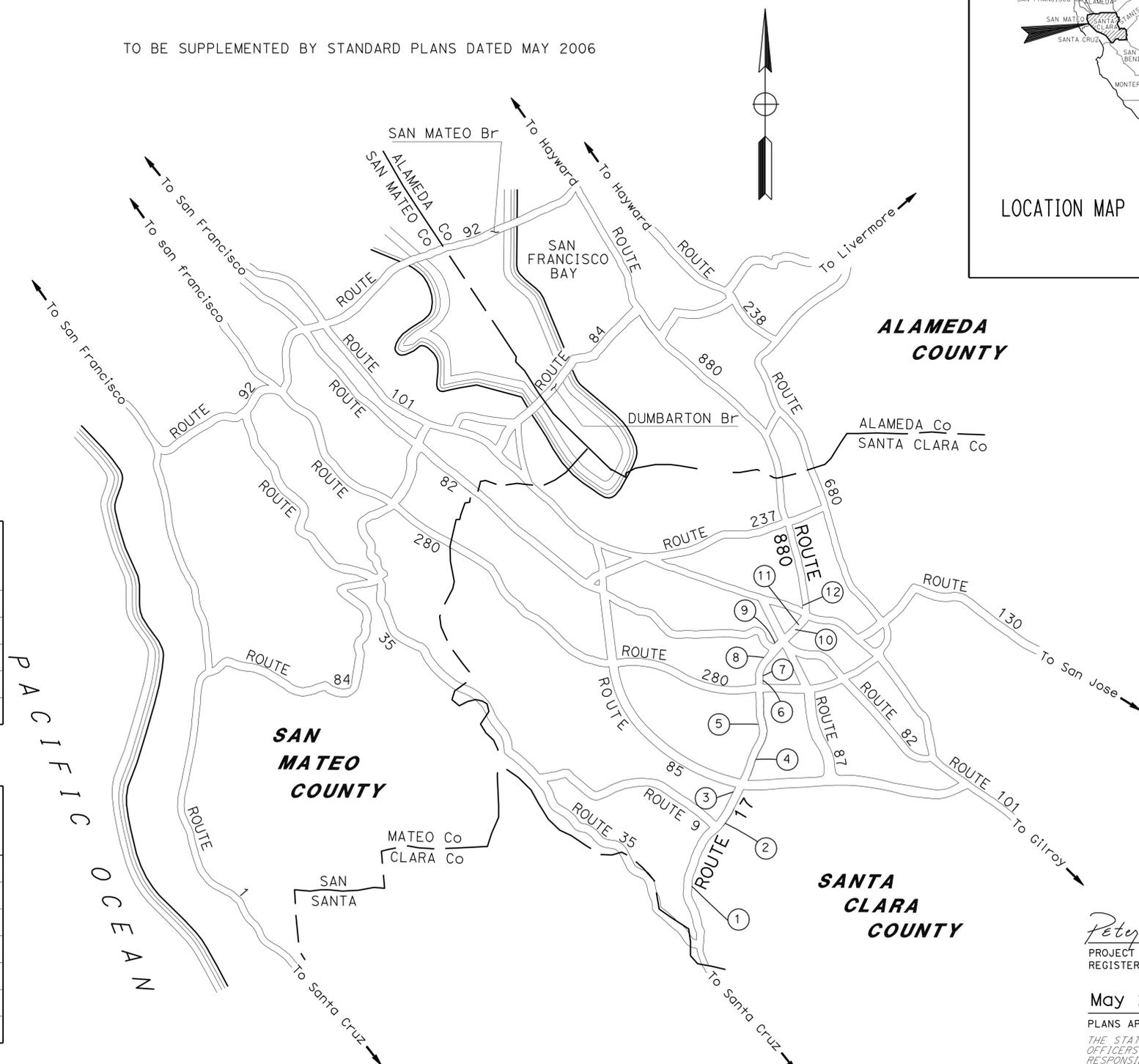
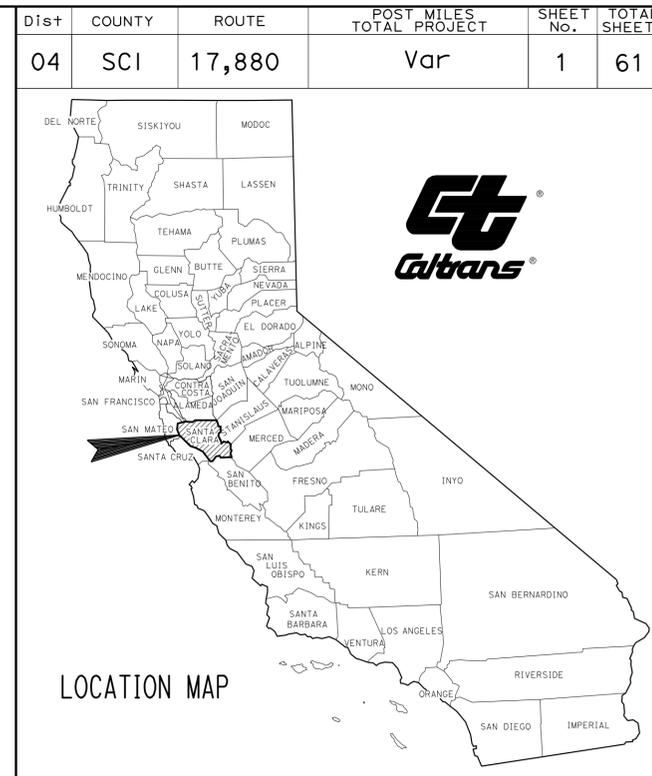
INDEX OF PLANS

| Sheet No. | Description |
|-----------|---------------------------------------|
| 1 | Title and Location Map |
| 2 | Layout |
| 3-16 | Utility Plans |
| 17-22 | Traffic Handling Plans and Quantities |
| 23-25 | Construction Area Signs |
| 26 | Summary of Quantities |
| 27-45 | Electrical Plans |
| 46-61 | Revised and New Standard Plans |

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO CONTRACTORS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA STP-X085(045)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SANTA CLARA COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION (ROUTE 17)

| LOCATION | PM | DESCRIPTION | | DIRECTION |
|----------|-------|---------------|--------------|-----------|
| | | INTERCHANGE | RAMP | |
| ① | 4.16 | BEAR CREEK Rd | LOOP OFF | NB |
| ② | 7.19 | SARATOGA Rd | LOOP OFF | NB |
| ③ | 8.92 | LARK Ave | DIAGONAL OFF | SB |
| ④ | 10.76 | CAMDEN Ave | DIAGONAL ON | NB |
| ⑤ | 12.39 | HAMILTON Ave | LOOP ON | SB |

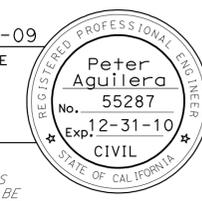
LOCATIONS OF CONSTRUCTION (ROUTE 880)

| LOCATION | PM | DESCRIPTION | | DIRECTION |
|----------|------|--------------------|----------|-----------|
| | | INTERCHANGE | RAMP | |
| ⑥ | 0.20 | ROUTE 880/17/280 | MAINLINE | NB |
| ⑦ | 0.51 | STEVENS CREEK Blvd | LOOP ON | NB |
| ⑧ | 1.28 | BASCOM Ave | LOOP ON | SB |
| ⑨ | 2.10 | THE ALAMEDA | LOOP ON | SB |
| ⑩ | 3.51 | N FIRST St | LOOP ON | NB |
| ⑪ | 3.64 | N FIRST St | LOOP ON | SB |
| ⑫ | 4.39 | OLD BAYSHORE Rd | LOOP ON | SB |

NO SCALE

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

Peter Aguilera 3-17-09
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 May 26, 2009
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No. **04-151364**



x
x
x
x
x
x

PROJECT MANAGER
 DINA EL-TAWANSY
 DESIGN ENGINEER
 PETER AGUILERA

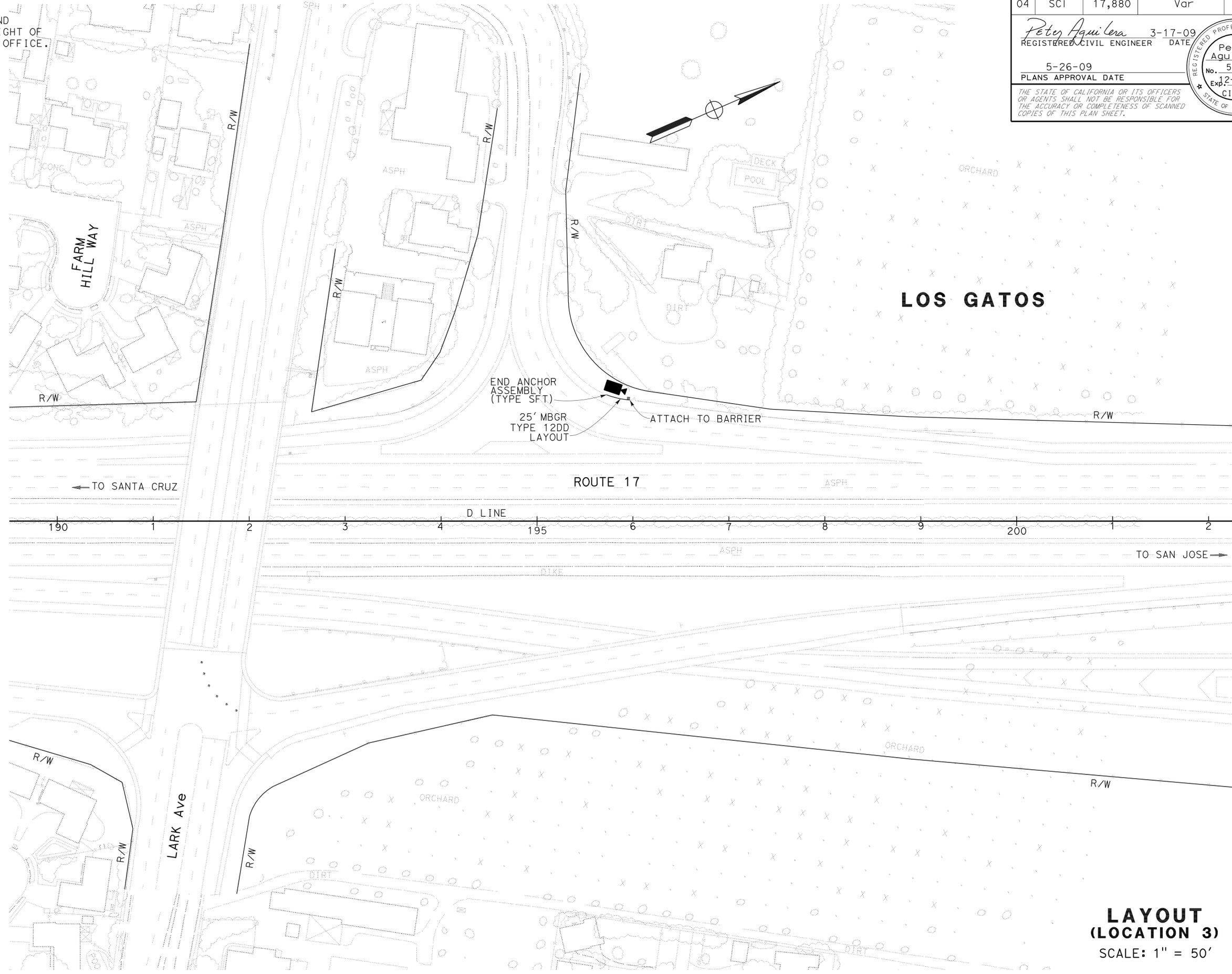
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 2 | 61 |

| | |
|---------------------------|---------|
| <i>Peter Aquilera</i> | 3-17-09 |
| REGISTERED CIVIL ENGINEER | DATE |
| 5-26-09 | |
| PLANS APPROVAL DATE | |

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



LOS GATOS

**LAYOUT
(LOCATION 3)**
SCALE: 1" = 50'

| | |
|--|-------------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN |
| Caltrans | |
| FUNCTIONAL SUPERVISOR | ULDARICO P. PEREZ |
| CALCULATED-DESIGNED BY | CHECKED BY |
| SUSANA ONATE | JIM LEM |
| REVISED BY | DATE REVISED |

REVISOR
 SUSANA ONATE
 JIM LEM

DESIGNER
 ULDARICO P. PEREZ

FUNCTIONAL SUPERVISOR
 ULDARICO P. PEREZ

CHECKED BY
 JIM LEM

DESIGNED BY
 ULDARICO P. PEREZ

DATE
 3-17-09

DATE
 3-17-09

ABBREVIATIONS:

- CCCL CEMENT COATED CEMENT LINE
- CSJ CITY OF SAN JOSE
- DICL DUCTILE IRON CEMENT LINE
- HP HIGH PRESSURE
- PG&E PACIFIC GAS & ELECTRIC COMPANY
- PL PLASTIC PIPE
- PMP PERFORATED METAL PIPE
- RMWC REDWOOD MUTUAL WATER COMPANY
- SCVWD SANTA CLARA VALLEY WATER DISTRICT
- SJWC SAN JOSE WATER COMPANY
- SOMCL SOMATIC COATED CEMENT LINE
- UGD UNDERGROUND DUCT
- VCD VITRIFIED CLAY DUCT
- WSCL WELDED STEEL COPPER LINE

LEGEND:

-  Exist DI DROP INLET
-  Exist JB JUNCTION BOX
-  Exist MH MANHOLE
-  Exist WATER LINE CROSSOVER
-  Exist STREET LIGHT (CITY OF OAKLAND)
-  Exist LIGHTRAIL OVERHEAD CONTACTWIRE
-  ABANDONED

NOTE:

LOCATIONS OF EXISTING UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 3 | 61 |

Peter Aguilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE

5-26-09
 PLANS APPROVAL DATE

Peter Aguilera
 No. 55287
 Exp. 12-31-10
 CIVIL

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

UTILITY PLAN

U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.



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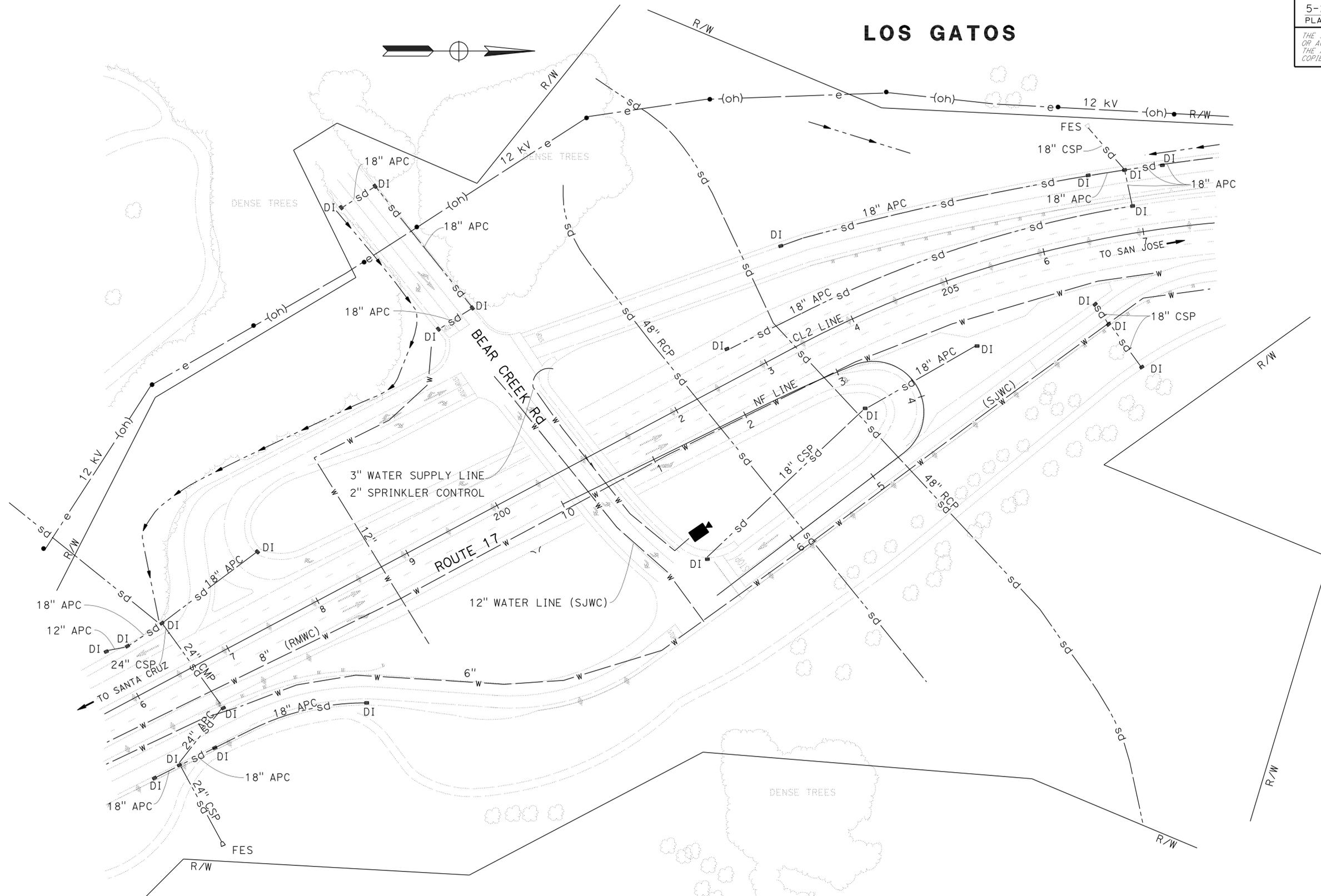
CU 04222

EA 151361

| | | | | | |
|---|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 4 | 61 |
| <i>Peter Aguilera</i> 3-17-09 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 5-26-09 | | | PLANS APPROVAL DATE | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.</small> | | | | | |

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

LOS GATOS



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| Caltrans | |
| FUNCTIONAL SUPERVISOR | ULDARICO P. PEREZ |
| CALCULATED-DESIGNED BY | CHECKED BY |
| SUSANA ONATE | JIM LEM |
| REVISED BY | DATE REVISED |

FOR NOTES, ABBREVIATIONS AND LEGENDS, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN (LOCATION 1)

SCALE: 1" = 50'

U-2



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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FUNCTIONAL SUPERVISOR
 ULDARICO P. PEREZ

CALCULATED-DESIGNED BY
 CHECKED BY

SUSANA ONATE
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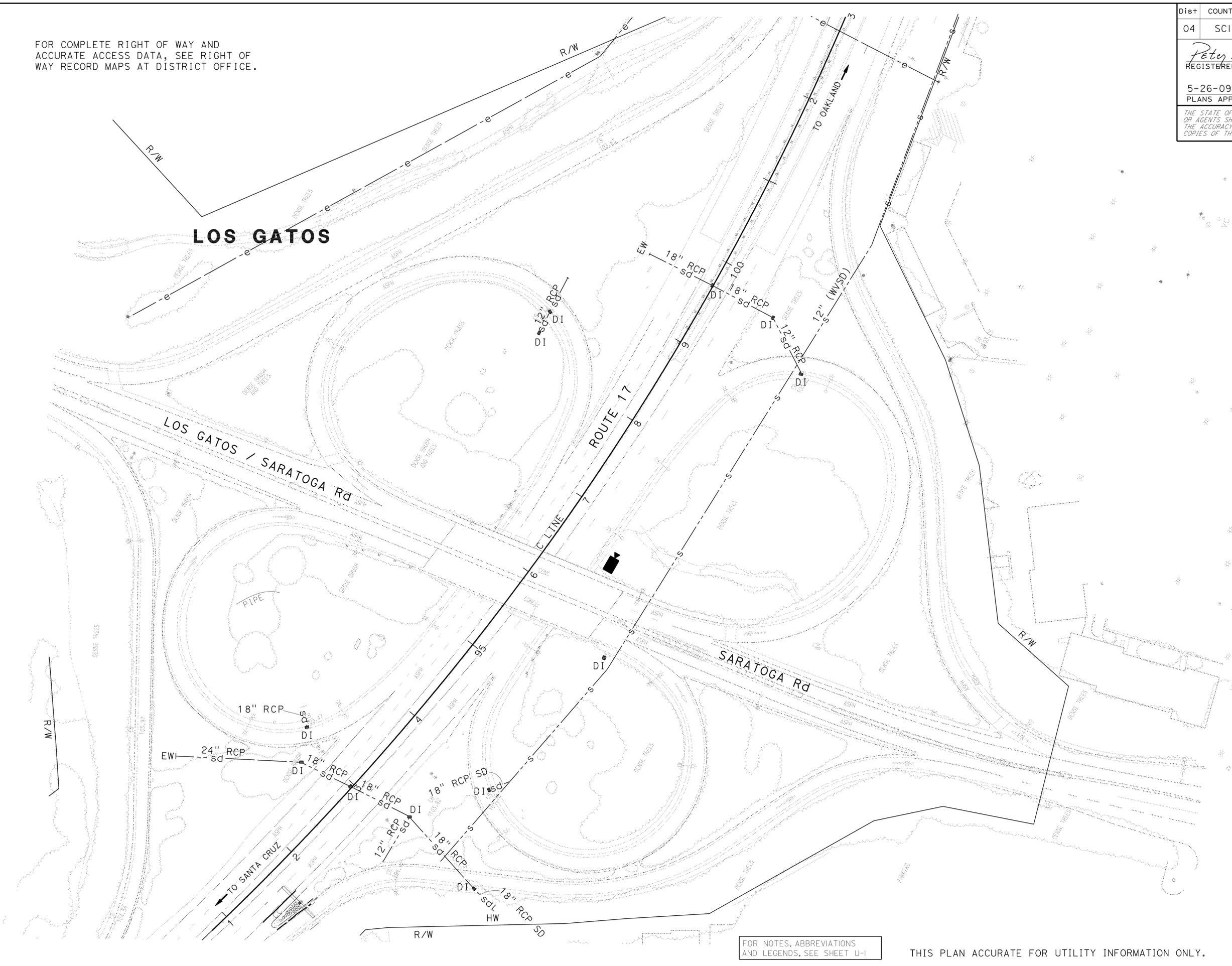
REVISED BY
 DATE REVISED

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 5 | 61 |

Peter Aguilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Peter Aguilera
 No. 55287
 Exp. 2-31-10
 CIVIL
 STATE OF CALIFORNIA



FOR NOTES, ABBREVIATIONS AND LEGENDS, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

**UTILITY PLAN
 (LOCATION 2)**
 SCALE: 1" = 50'

U-3

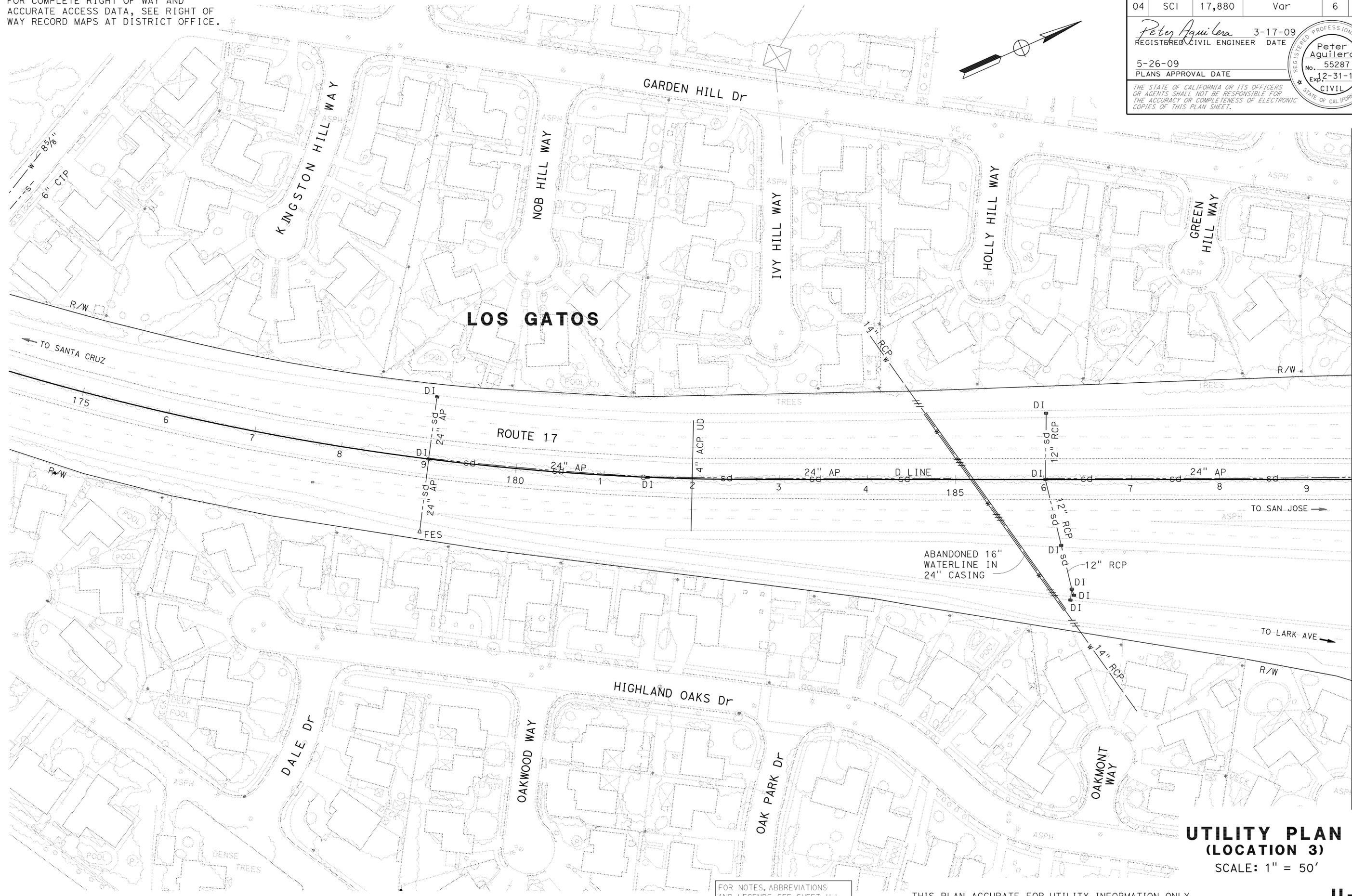
FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 6 | 61 |

Peter Aquilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Peter Aquilera
 No. 55287
 Exp. 2-31-10
 CIVIL
 STATE OF CALIFORNIA

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Caltrans
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 SUSANA ONATE
 JIM LEM
 REVISOR: SUSANA ONATE
 DATE: [REDACTED]
 CHECKED BY: [REDACTED]

FOR NOTES, ABBREVIATIONS AND LEGENDS, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN
(LOCATION 3)
 SCALE: 1" = 50'

U-4

SEE SHEET U-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

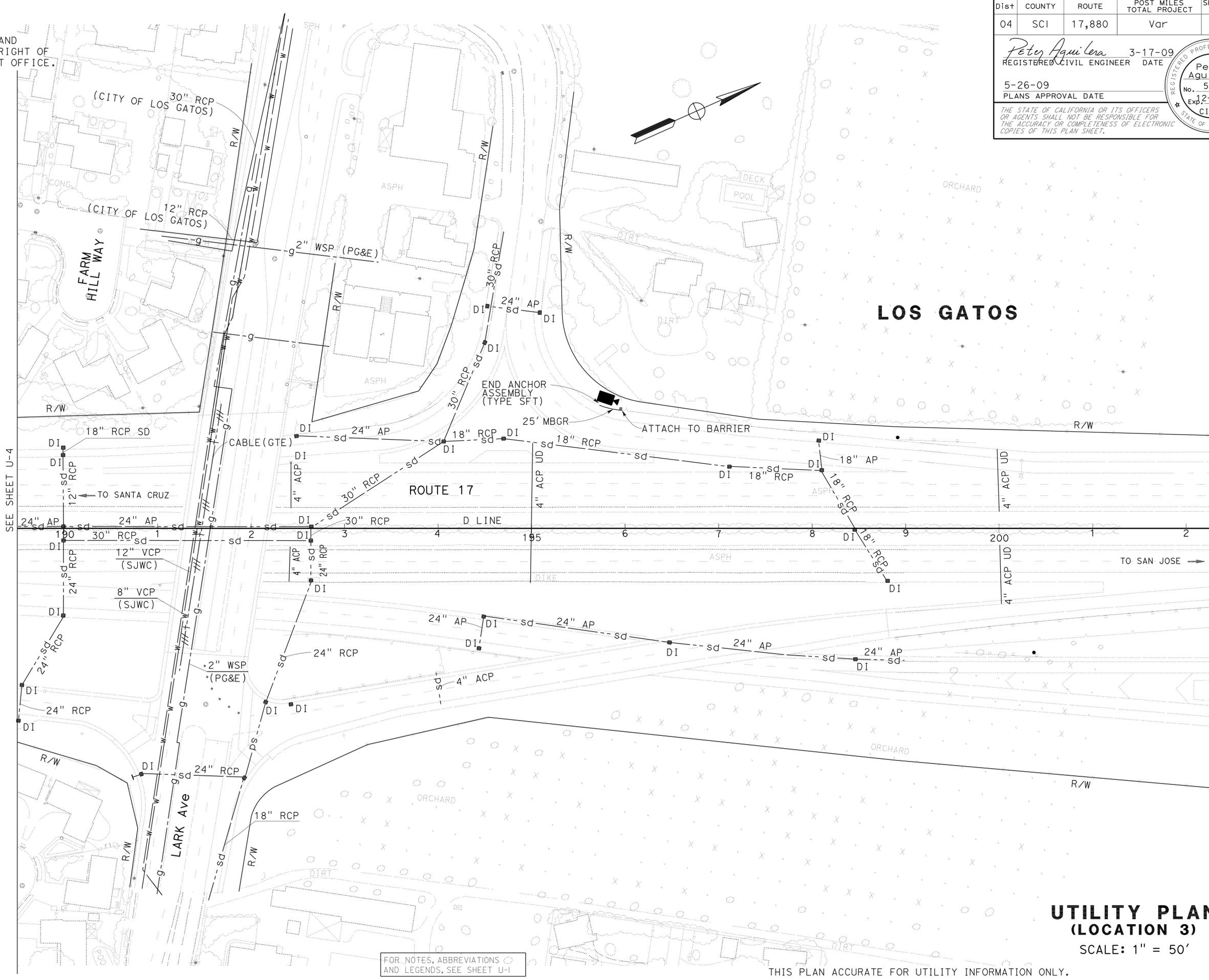
FUNCTIONAL SUPERVISOR
 ULDARICO P. PEREZ

CALCULATED-DESIGNED BY
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SUSANA ONATE
 JIM LEM

REVISED BY
 DATE REVISED

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 7 | 61 |

Peter Aguilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Peter Aguilera
 No. 55287
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

FOR NOTES, ABBREVIATIONS AND LEGENDS, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

**UTILITY PLAN
 (LOCATION 3)**
 SCALE: 1" = 50'

U-5

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 8 | 61 |

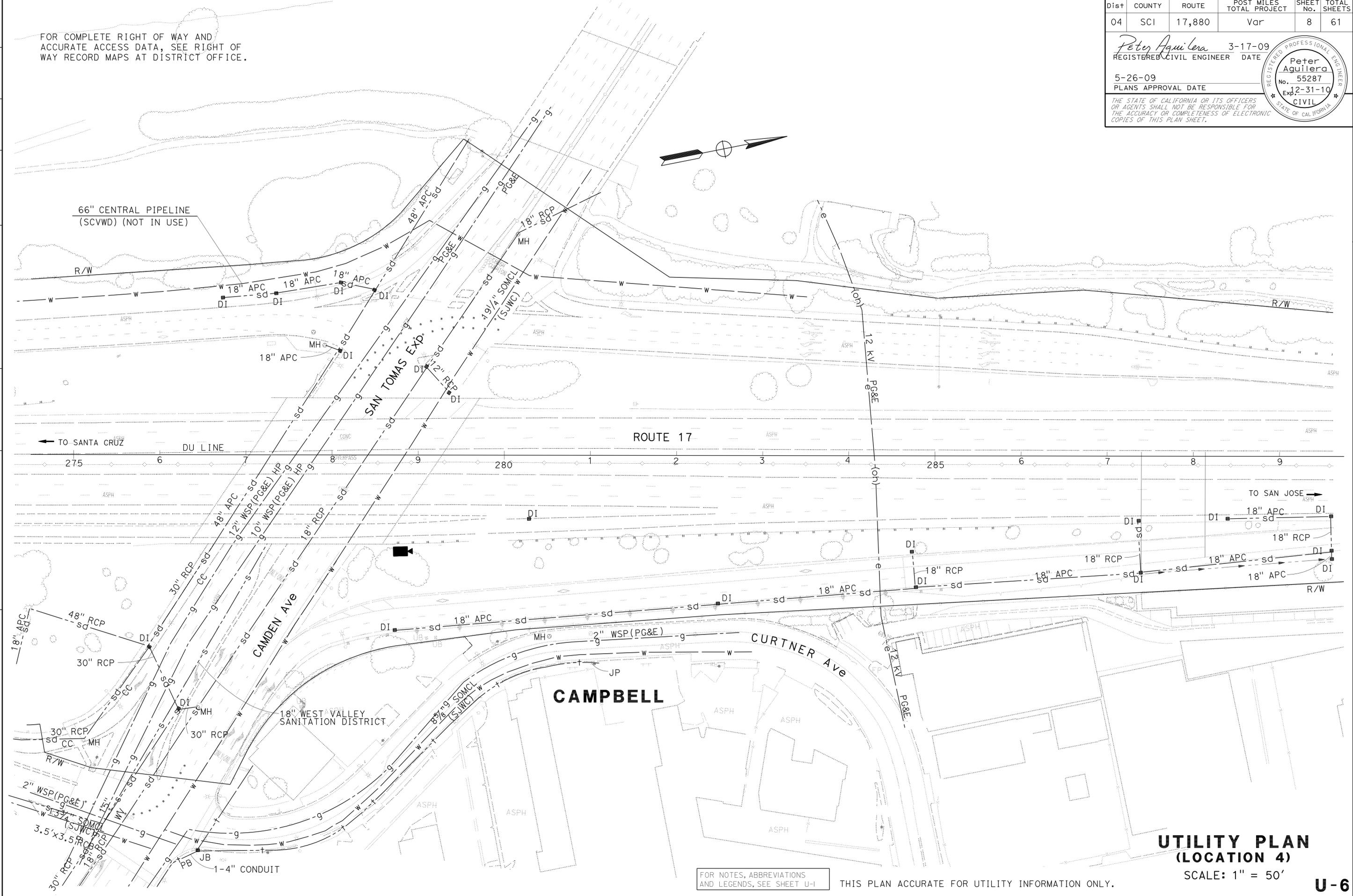
| | |
|---------------------------|---------|
| <i>Peter Aquilera</i> | 3-17-09 |
| REGISTERED CIVIL ENGINEER | DATE |
| 5-26-09 | |
| PLANS APPROVAL DATE | |

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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 SUSANA ONATE
 REVISED BY: JIM LEM
 DATE REVISED: [Blank]



FOR NOTES, ABBREVIATIONS AND LEGENDS, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN (LOCATION 4)

SCALE: 1" = 50'

U-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

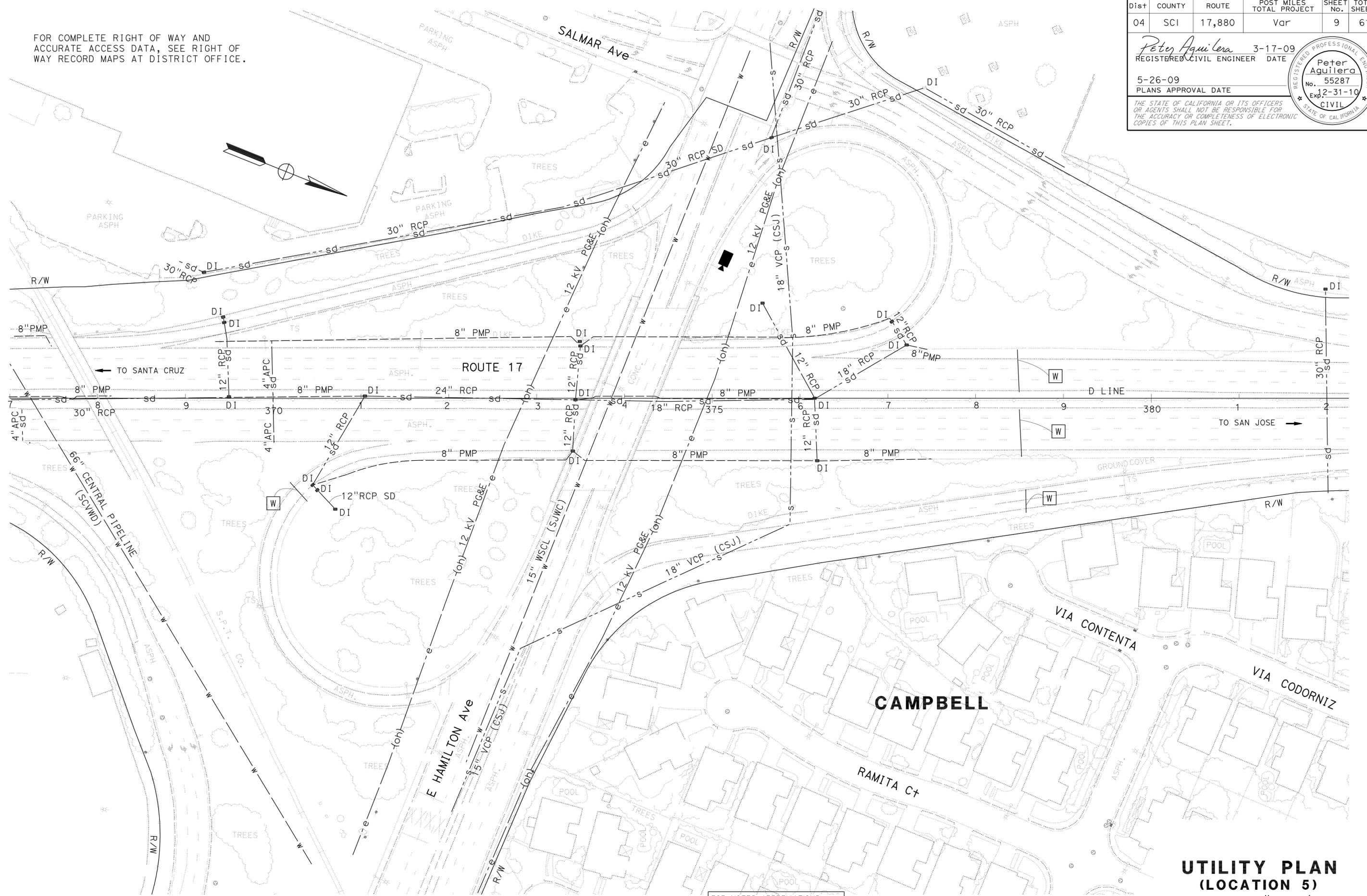
FUNCTIONAL SUPERVISOR
 ULDARICO P. PEREZ

CALCULATED-DESIGNED BY
 CHECKED BY

SUSANA ONATE
 JIM LEM

REVISED BY
 DATE REVISED

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



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|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 9 | 61 |

Peter Aguilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE

Peter Aguilera
 No. 55287
 Exp. 2-31-10
 CIVIL

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FOR NOTES, ABBREVIATIONS AND LEGENDS, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN
(LOCATION 5)
 SCALE: 1" = 50'

U-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Ed Cattrans DESIGN

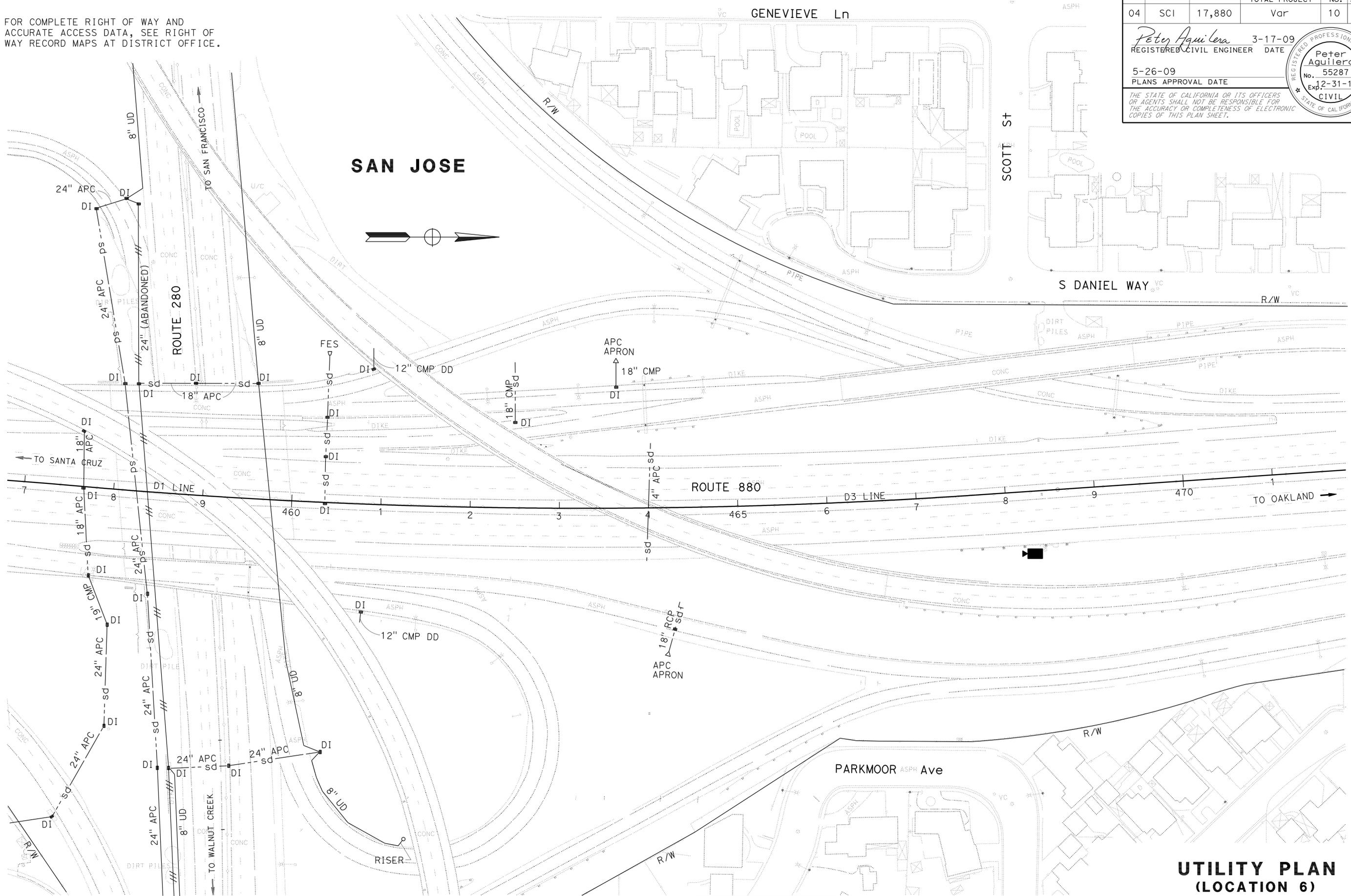
FUNCTIONAL SUPERVISOR
 ULDARICO P. PEREZ

CALCULATED-DESIGNED BY
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 JIM LEM

REVISED BY
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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



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|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 10 | 61 |

Peter Aguilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Peter Aguilera
 No. 55287
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

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FOR NOTES, ABBREVIATIONS AND LEGENDS, SEE SHEET U-1

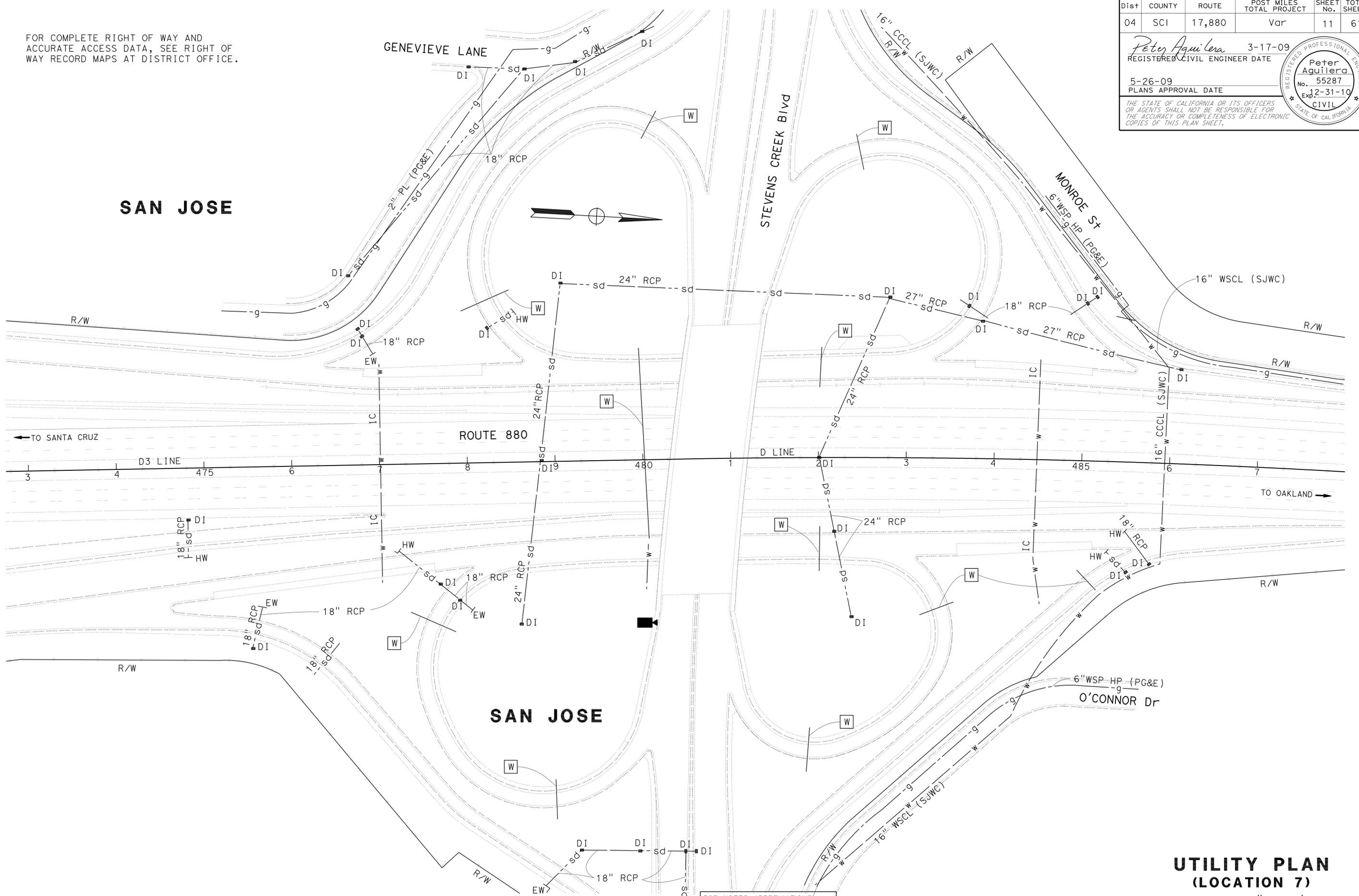
THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN
(LOCATION 6)
 SCALE: 1" = 50'

U-8

| | | | | | |
|---|--------|--------|---|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 11 | 61 |
| <i>Peter Aguilera</i> 3-17-09 REGISTERED CIVIL ENGINEER DATE | | | REGISTERED PROFESSIONAL ENGINEER Peter Aguilera No. 55287 Exp. 2-31-10 CIVIL STATE OF CALIFORNIA | | |
| 5-26-09 | | | PLANS APPROVAL DATE | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.</small> | | | | | |

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



SAN JOSE

SAN JOSE

ROUTE 880

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN (LOCATION 7)

SCALE: 1" = 50'

U-9

| | |
|--|-------------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN |
| Caltrans | |
| FUNCTIONAL SUPERVISOR | ULDARICO P. PEREZ |
| CALCULATED-DESIGNED BY | CHECKED BY |
| SUSANA ONATE | JIM LEM |
| REVISED BY | DATE REVISED |

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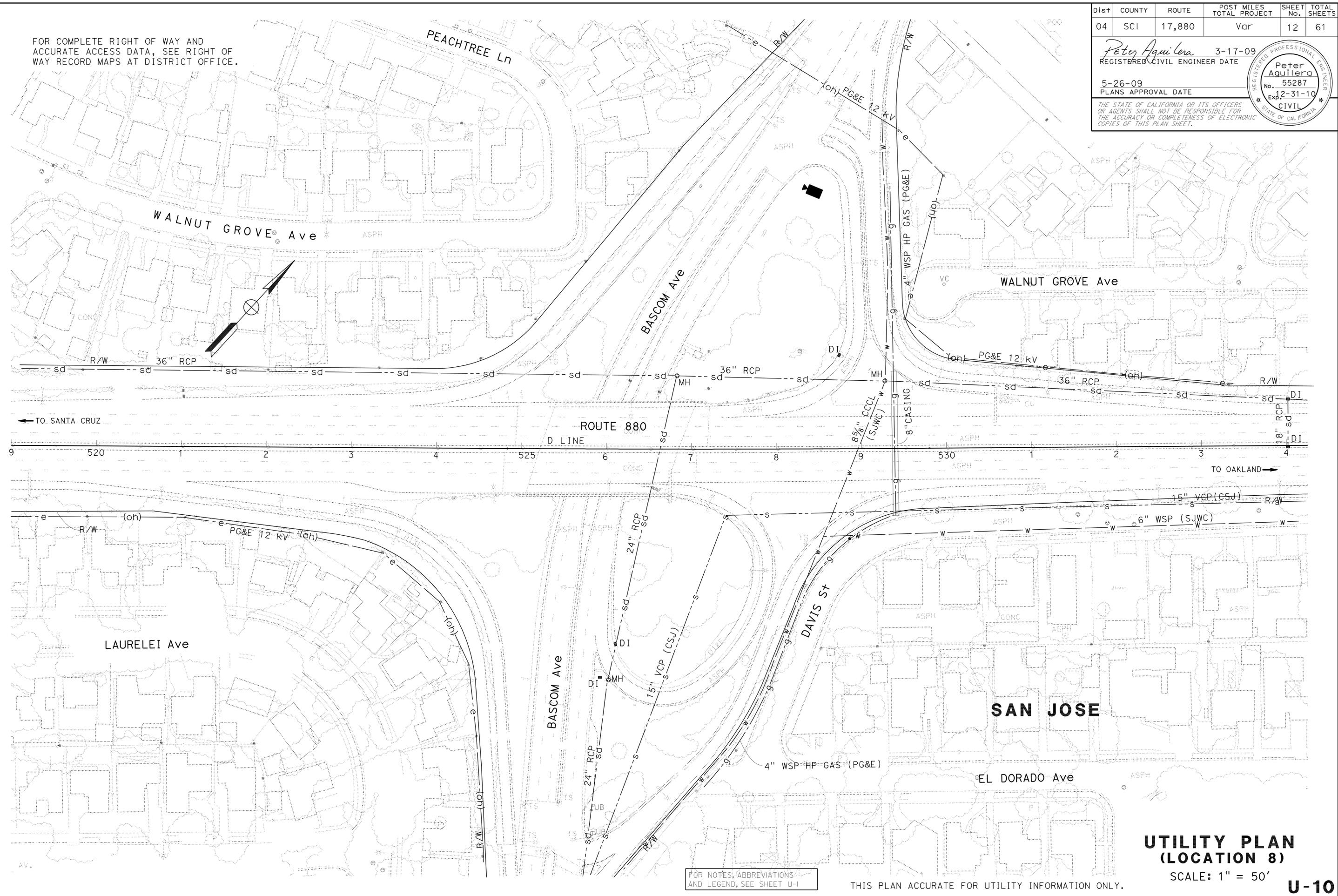
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 JIM LEM

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|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 12 | 61 |

Peter Aquilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Peter Aquilera
 No. 55287
 Exp. 2-31-10
 CIVIL
 STATE OF CALIFORNIA

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

**UTILITY PLAN
(LOCATION 8)**

SCALE: 1" = 50'

U-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Ed. Galtans
DESIGN

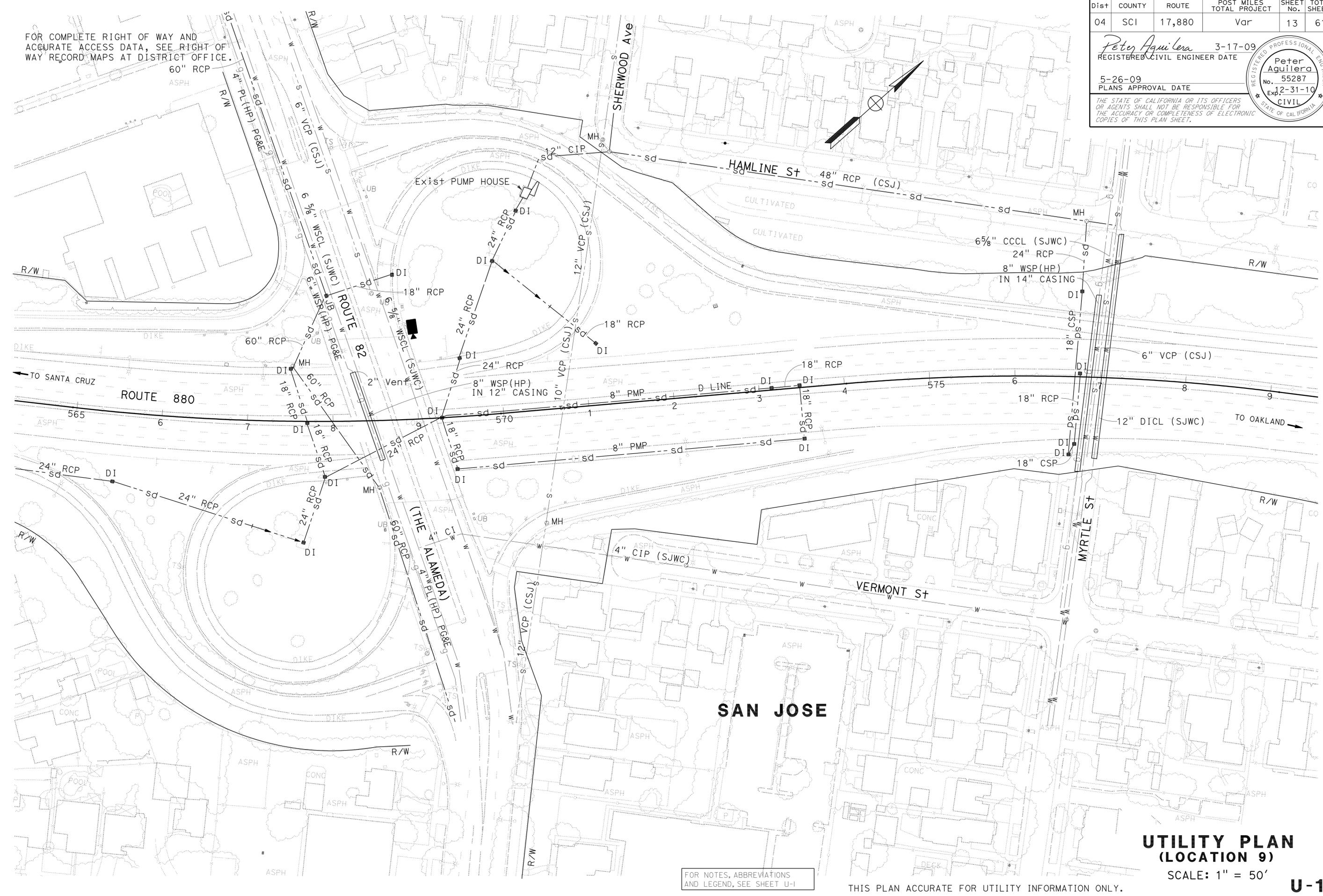
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 JIM LEM

REVISED BY
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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 13 | 61 |

Peter Aguilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE

5-26-09
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Peter Aguilera
 No. 55287
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

**UTILITY PLAN
 (LOCATION 9)**
 SCALE: 1" = 50'

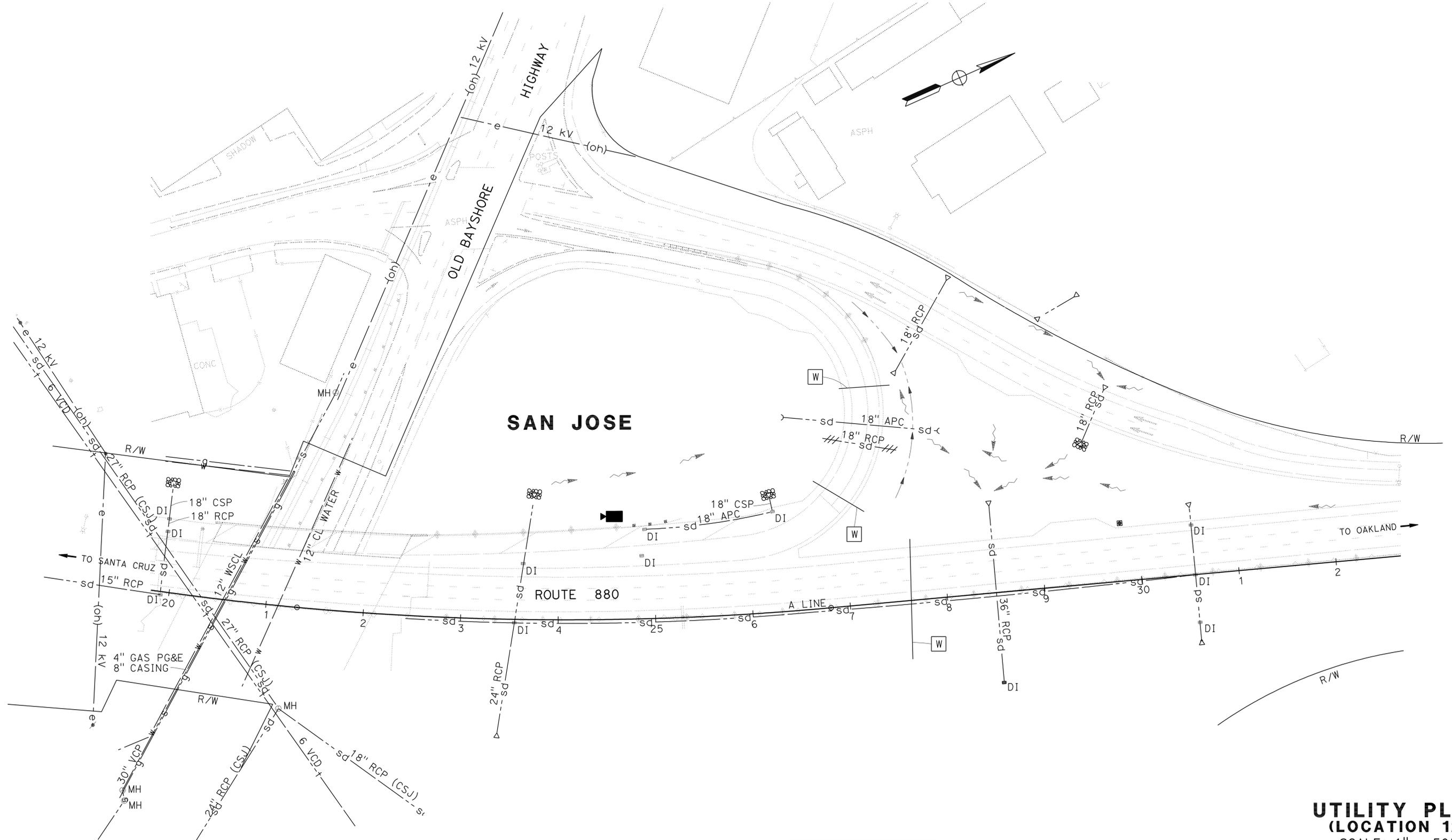
U-11

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 15 | 61 |

REGISTERED CIVIL ENGINEER DATE: *Peter Aguilera* 3-17-09
 REGISTERED CIVIL ENGINEER No. 55287
 Exp. 12-31-10
 CIVIL
 PLANS APPROVAL DATE: 5-26-09
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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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| ULDARICO P. PEREZ | FUNCTIONAL SUPERVISOR |
| CHECKED BY | CALCULATED-DESIGNED BY |
| JIM LEM | SUSANA ONATE |
| DATE REVISED | REVISED BY |



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN (LOCATION 12)
SCALE: 1" = 50'

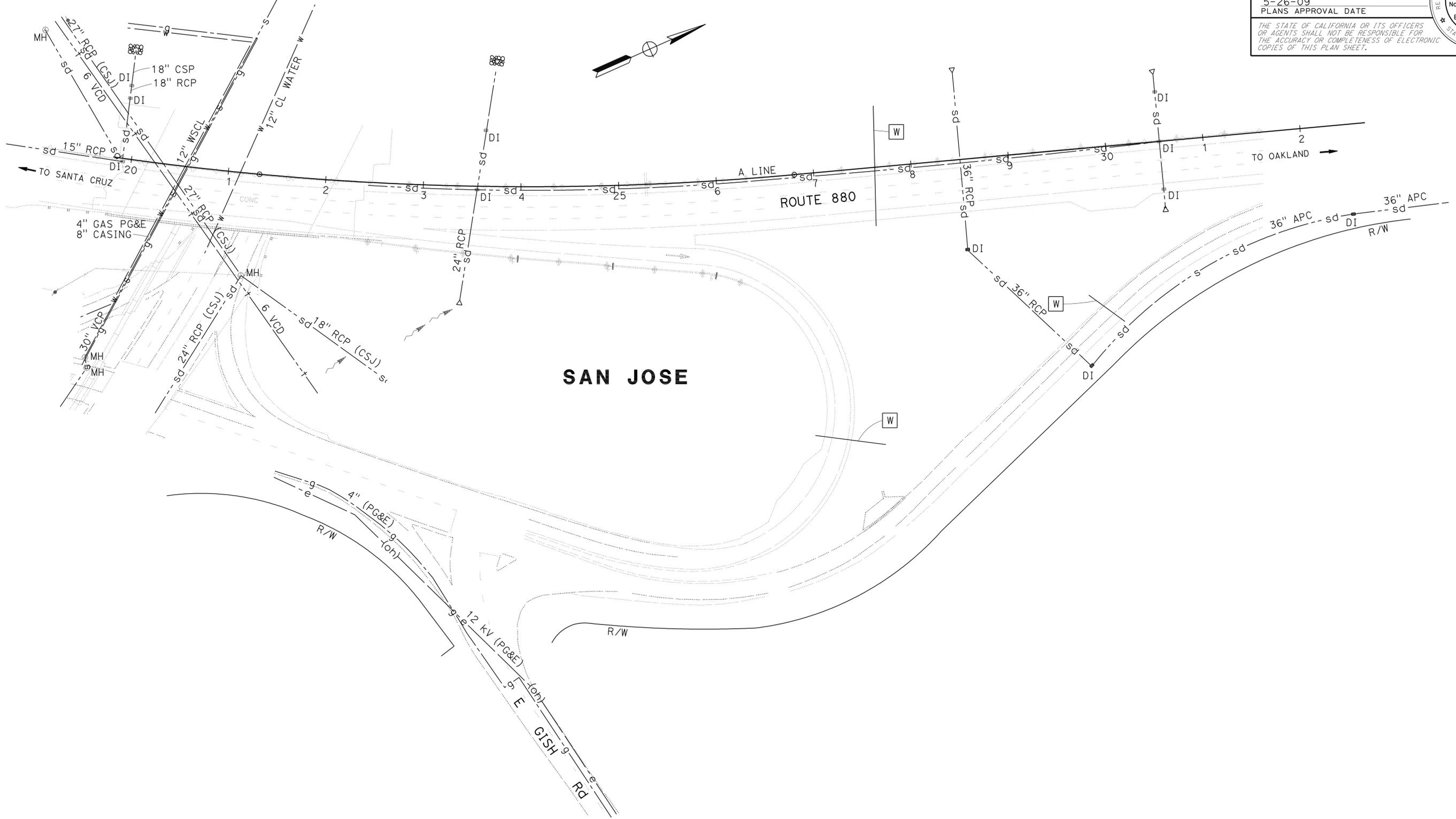
U-13

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 16 | 61 |

Peter Aguilera 3-17-09
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 5-26-09
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Peter Aguilera
 No. 55287
 Exp. 12-31-10
 CIVIL
STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
 ULDARICO P. PEREZ
 SUSANA ONATE
 JIM LEM
 SUSANA ONATE
 JIM LEM
 ULDARICO P. PEREZ
 SUSANA ONATE
 JIM LEM

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN
(LOCATION 12)
 SCALE: 1" = 50'

U-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 DUC VO: JERILYN STRUVEN
 REVISIONS: (Grid with 'x' marks)

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 17 | 61 |

3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
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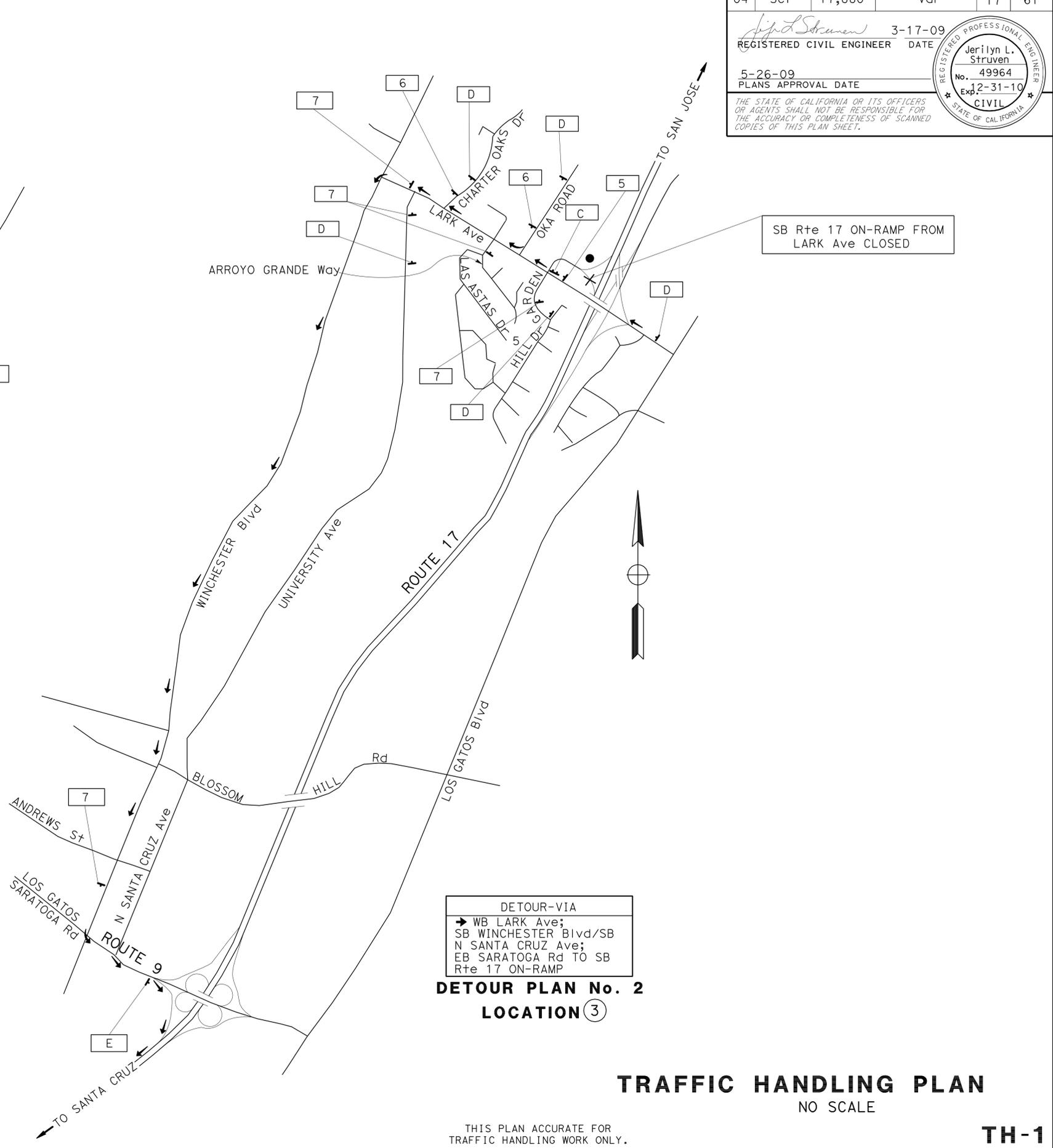
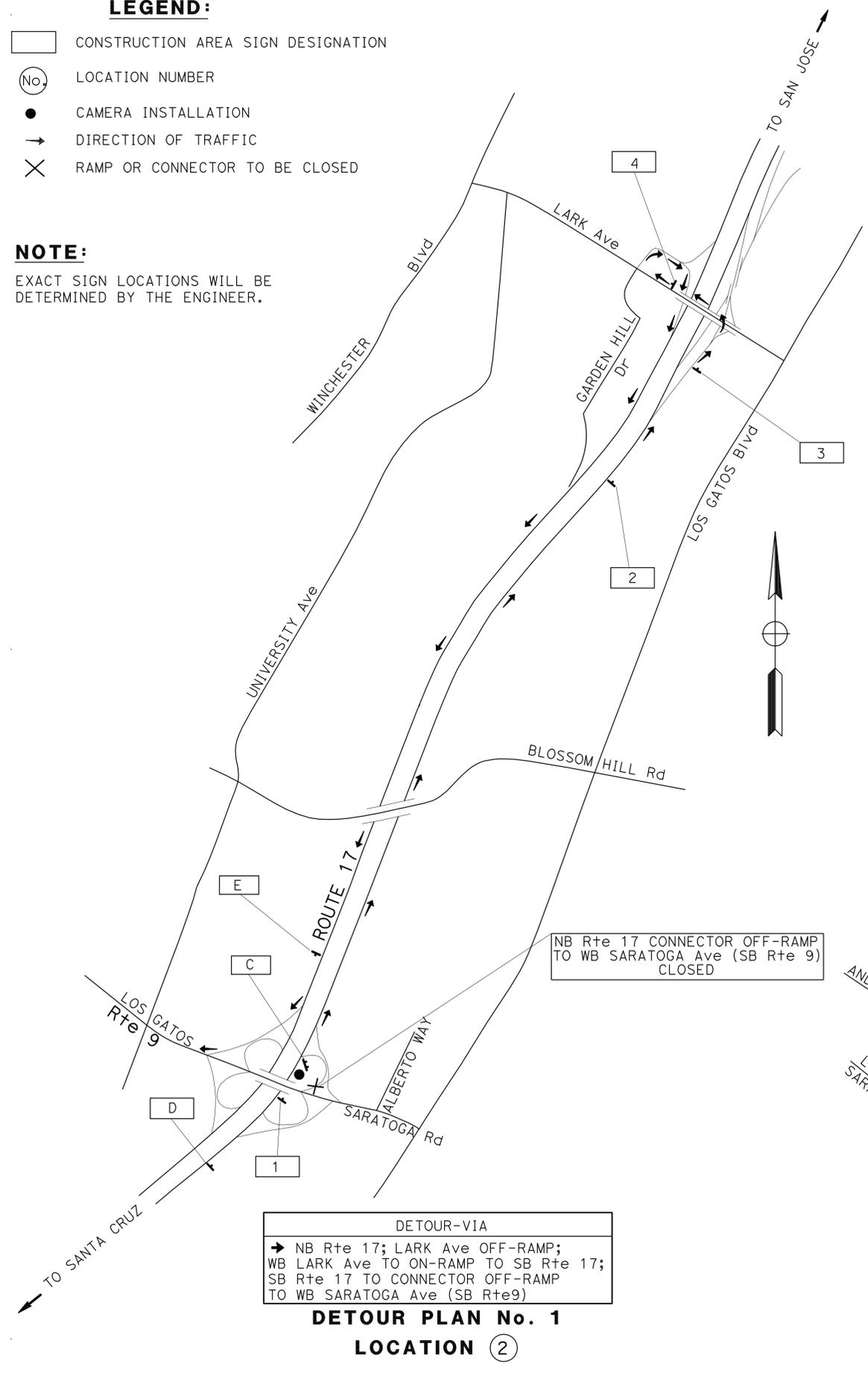
REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

LEGEND:

- CONSTRUCTION AREA SIGN DESIGNATION
- No. LOCATION NUMBER
- CAMERA INSTALLATION
- DIRECTION OF TRAFFIC
- ✕ RAMP OR CONNECTOR TO BE CLOSED

NOTE:

EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.



TRAFFIC HANDLING PLAN
 NO SCALE

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

TH-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 ROLAND AU-YEUNG

CALCULATED-DESIGNED BY
 CHECKED BY

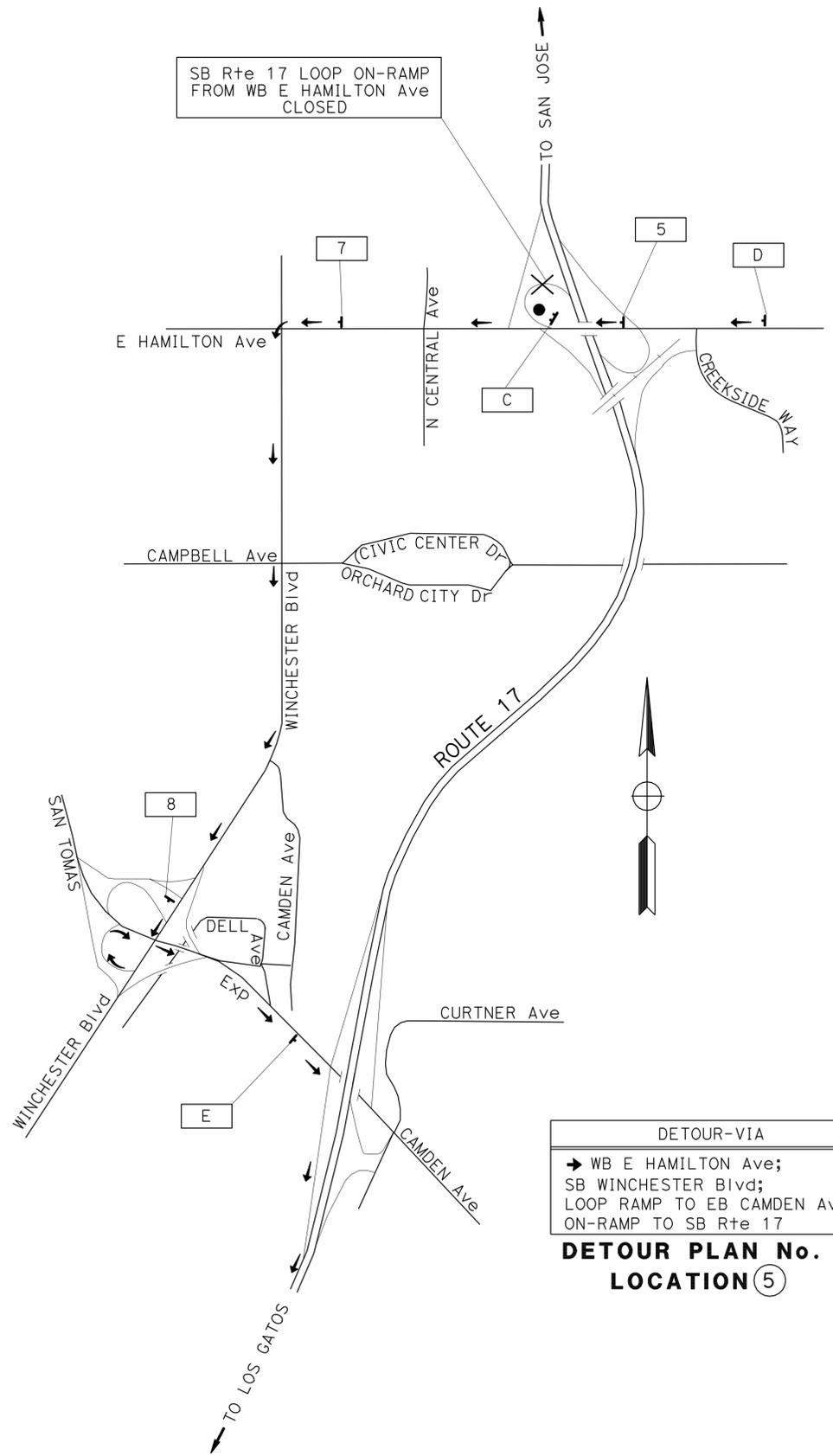
DUC VO
 JERILYN STRUVEN

REVISED BY
 DATE REVISED

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 18 | 61 |

Jerilyn L. Struven 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

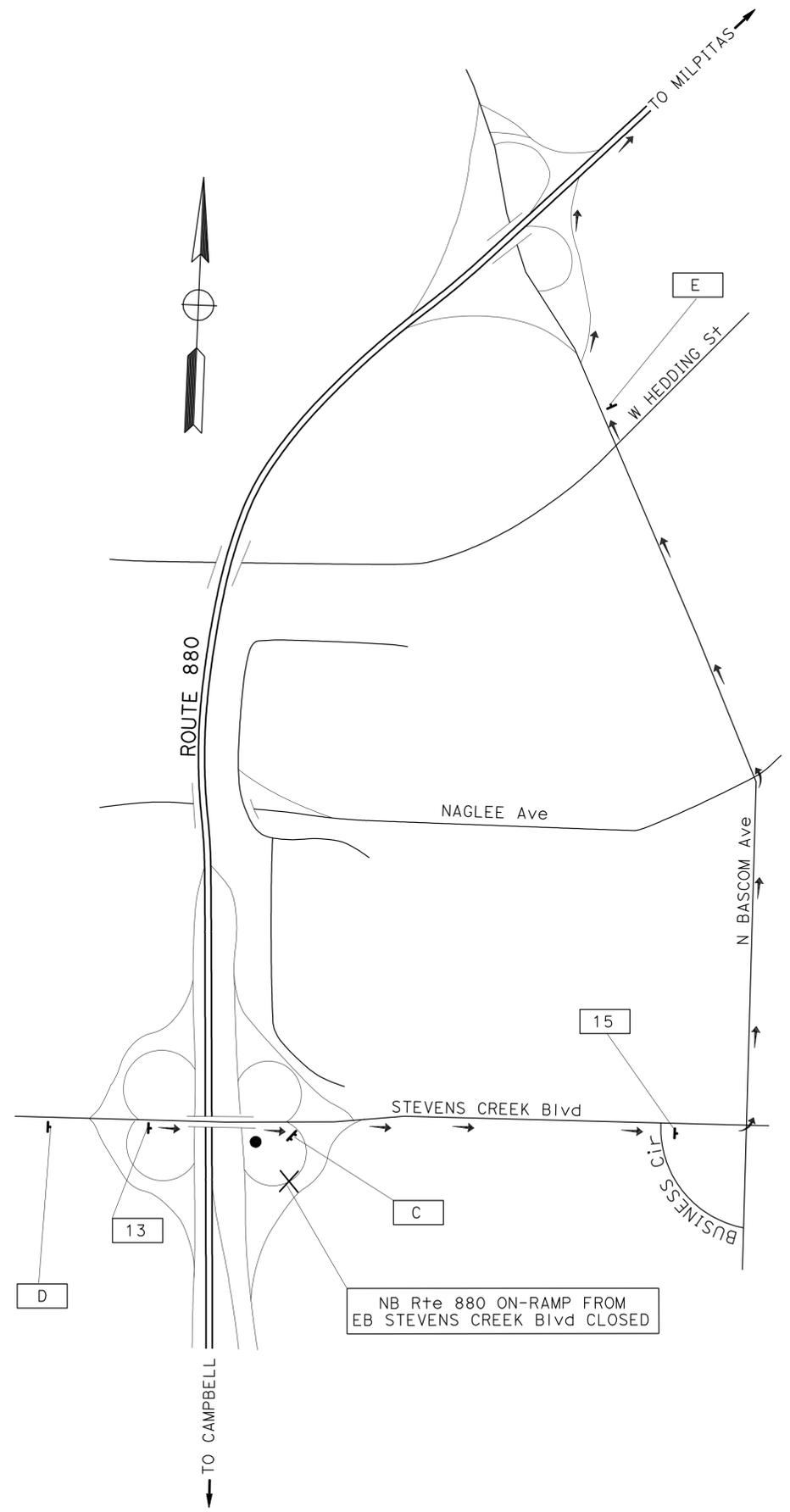
REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA



DETOUR-VIA

→ WB E HAMILTON Ave;
 SB WINCHESTER Blvd;
 LOOP RAMP TO EB CAMDEN Ave;
 ON-RAMP TO SB Rte 17

DETOUR PLAN No. 3
LOCATION ⑤



DETOUR-VIA

→ EB STEVENS CREEK Blvd;
 NB N BASCOM Ave;
 FROM N BASCOM Ave
 ON-RAMP TO NB Rte 880

DETOUR PLAN No. 4
LOCATION ⑦

NB Rte 880 ON-RAMP FROM
 EB STEVENS CREEK Blvd CLOSED

TRAFFIC HANDLING PLAN
 NO SCALE

TH-2

FOR NOTE AND LEGENDS,
 SEE SHEET TH-1

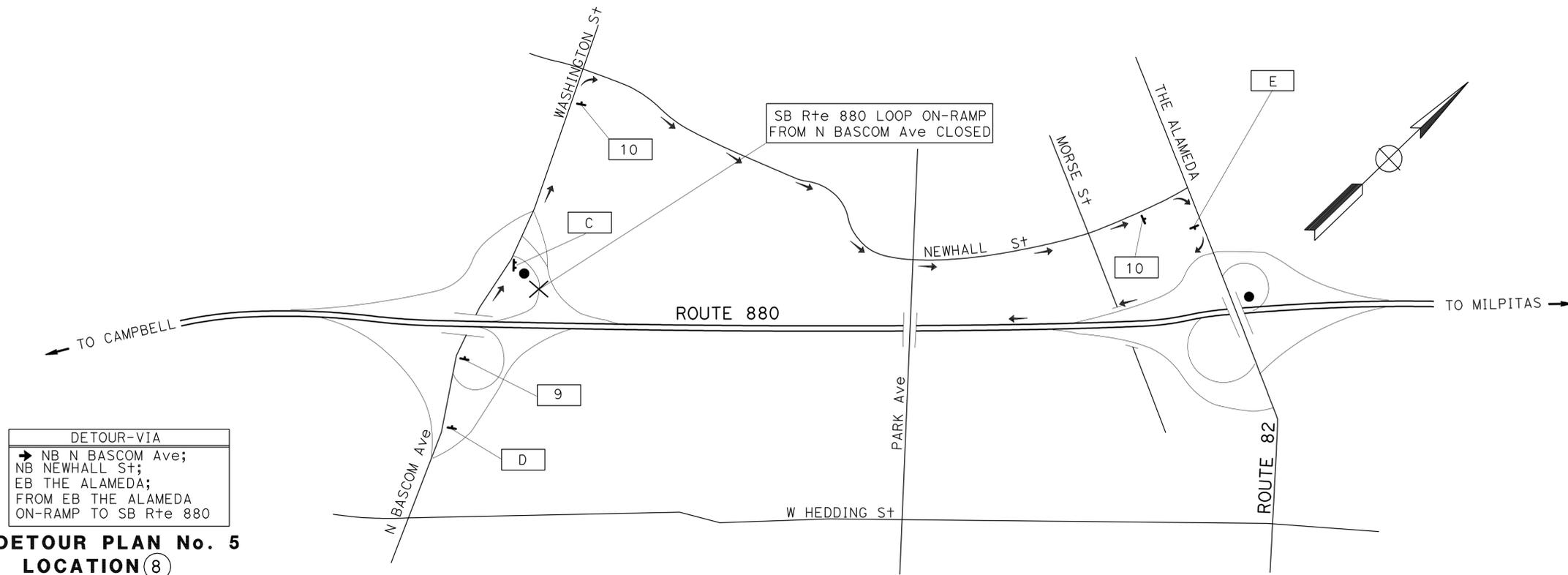
THIS PLAN ACCURATE FOR
 TRAFFIC HANDLING WORK ONLY.



| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 19 | 61 |

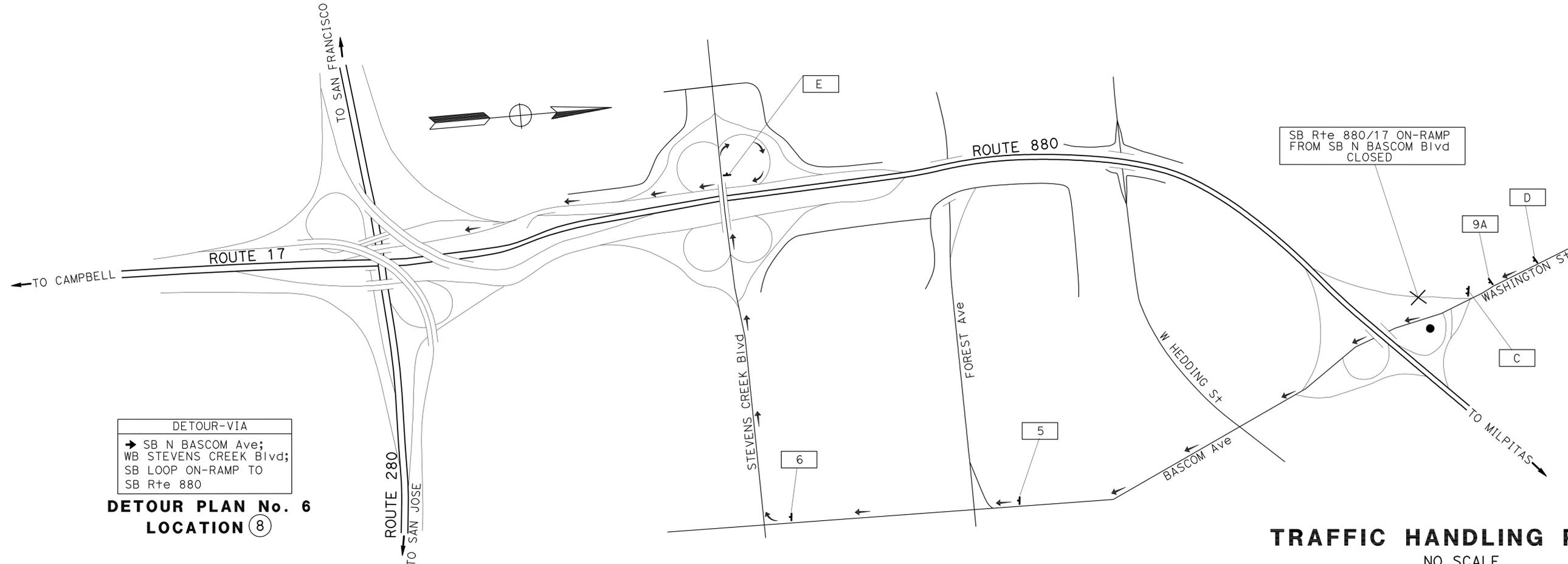
Jerilyn L. Struven 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-10
 CIVIL
STATE OF CALIFORNIA



DETOUR-VIA
 → NB N BASCOM Ave;
 NB NEWHALL St;
 EB THE ALAMEDA;
 FROM EB THE ALAMEDA
 ON-RAMP TO SB Rte 880

DETOUR PLAN No. 5
LOCATION ⑧



DETOUR-VIA
 → SB N BASCOM Ave;
 WB STEVENS CREEK Blvd;
 SB LOOP ON-RAMP TO
 SB Rte 880

DETOUR PLAN No. 6
LOCATION ⑧

TRAFFIC HANDLING PLAN
 NO SCALE

FOR NOTE AND LEGENDS,
 SEE SHEET TH-1

THIS PLAN ACCURATE FOR
 TRAFFIC HANDLING WORK ONLY.

TH-3

| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN |
| FUNCTIONAL SUPERVISOR | ROLAND AU-YEUNG |
| CALCULATED-DESIGNED BY | CHECKED BY |
| DUC VO | JERILYN STRUVEN |
| REVISED BY | DATE REVISED |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 ROLAND AU-YEUNG

CALCULATED-DESIGNED BY
 CHECKED BY

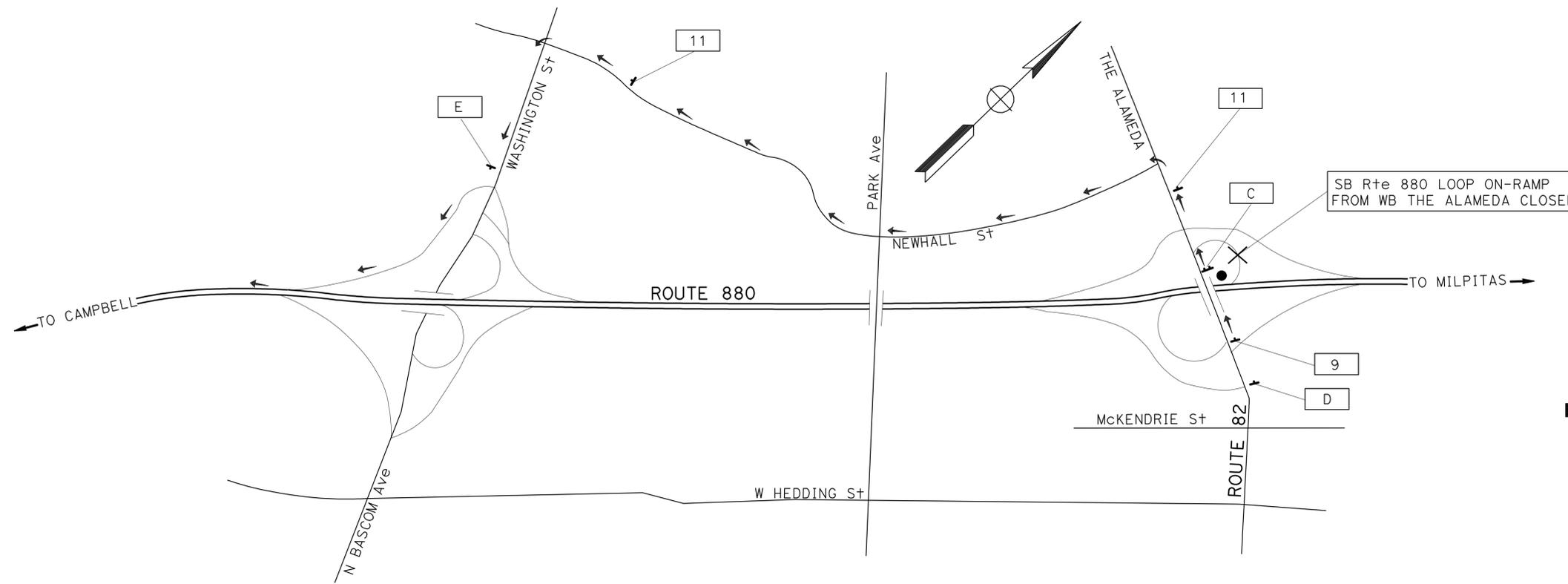
DUC VO
 JERILYN STRUVEN

REVISED BY
 DATE REVISED

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 20 | 61 |

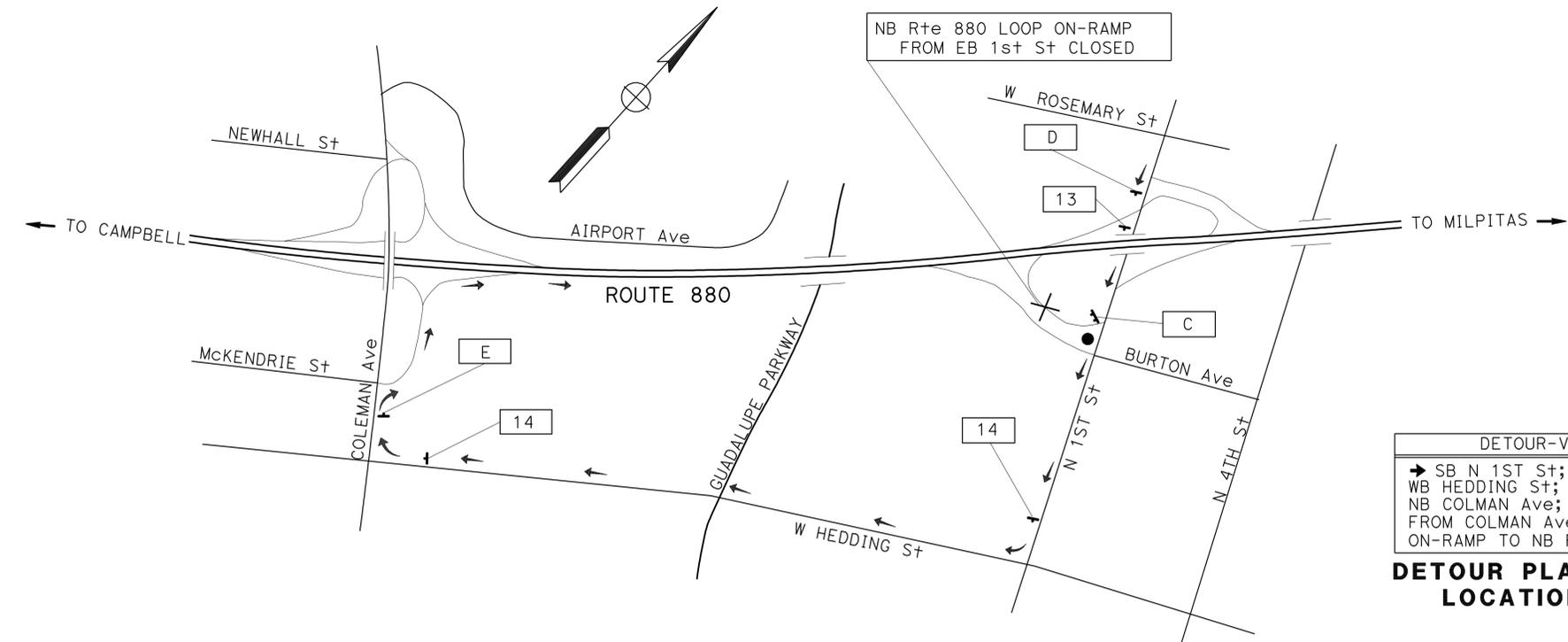
3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA



DETOUR-VIA
 → WB THE ALAMEDA;
 SB NEWHALL St;
 SB WASHINGTON St;
 FROM SB N BASCOM Ave
 ON-RAMP TO SB Rte 880

DETOUR PLAN No. 7
LOCATION 9



DETOUR-VIA
 → SB N 1ST St;
 WB HEDDING St;
 NB COLMAN Ave;
 FROM COLMAN Ave
 ON-RAMP TO NB Rte 880

DETOUR PLAN No. 8
LOCATION 10

FOR NOTE AND LEGENDS,
 SEE SHEET TH-1

THIS PLAN ACCURATE FOR
 TRAFFIC HANDLING WORK ONLY.

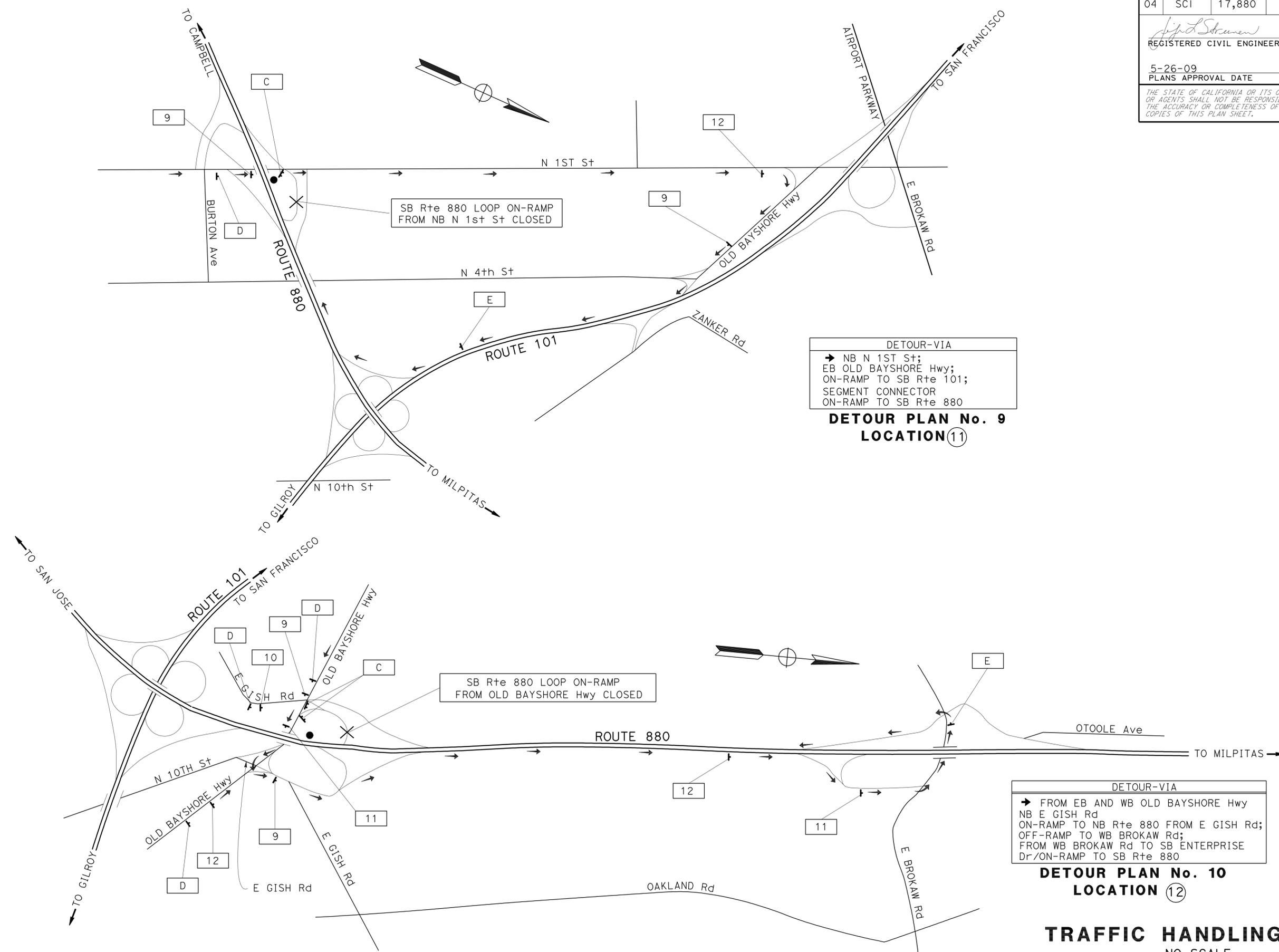
TRAFFIC HANDLING PLAN
 NO SCALE

TH-4

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 21 | 61 |

Jerilyn L. Struven 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

| |
|----------------------------------|
| REGISTERED PROFESSIONAL ENGINEER |
| Jerilyn L. Struven |
| No. 49964 |
| Exp. 12-31-10 |
| CIVIL |
| STATE OF CALIFORNIA |



DETOUR-VIA
 → NB N 1ST St;
 EB OLD BAYSHORE Hwy;
 ON-RAMP TO SB Rte 101;
 SEGMENT CONNECTOR
 ON-RAMP TO SB Rte 880
DETOUR PLAN No. 9
LOCATION 11

DETOUR-VIA
 → FROM EB AND WB OLD BAYSHORE Hwy
 NB E GISH Rd
 ON-RAMP TO NB Rte 880 FROM E GISH Rd;
 OFF-RAMP TO WB BROKAW Rd;
 FROM WB BROKAW Rd TO SB ENTERPRISE
 Dr/ON-RAMP TO SB Rte 880
DETOUR PLAN No. 10
LOCATION 12

TRAFFIC HANDLING PLAN
 NO SCALE

TH-5

| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN |
| FUNCTIONAL SUPERVISOR | ROLAND AU-YEUNG |
| CALCULATED-DESIGNED BY | CHECKED BY |
| DUC VO | JERILYN STRUVEN |
| REVISED BY | DATE REVISED |

FOR NOTE AND LEGENDS,
 SEE SHEET TH-1

THIS PLAN ACCURATE FOR
 TRAFFIC HANDLING WORK ONLY.

| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 22 | 61 |

Jerilyn L. Struven 3-17-09
 REGISTERED CIVIL ENGINEER DATE

5-26-09
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 No. 49964
 Exp. 2-31-10
 CIVIL
 STATE OF CALIFORNIA

TRAFFIC HANDLING SIGN QUANTITIES

| SIGN No. | CODE | MESSAGE | PANEL SIZE | | WOOD POST | QUANTITY | REMARKS |
|----------|----------------|----------------------------------|------------|-----------|-----------|----------|---------|
| | | | INCHES | EA-INCHES | | | |
| C | SC6-4(CA) | RAMP CLOSED (WITH DATE AND TIME) | 60 x 48 | 2-4 x 6 | | 11 | (S) |
| D | W20-2 | DETOUR AHEAD | 36 x 36 | 1-4 x 6 | | 16 | (S) |
| E | M4-8A | END DETOUR | 24 x 18 | 1-4 x 4 | | 10 | (S) |
| 1 | SC3(CA) | DETOUR (STRAIGHT AHEAD ARROW) | 48 x 18 | 1-4 x 6 | | 1 | (S) |
| | G48(CA) | SOUTH | 21 x 9 | | | | |
| | G28-2(CA)(9) | ROUTE SHIELD (9) | 24 x 25 | | | | |
| 2 | M4-8 | DETOUR | 24 x 12 | 1-4 x 6 | | 1 | (S) |
| | G48(CA) | SOUTH | 21 x 9 | | | | |
| | G28-2(CA)(9) | ROUTE SHIELD (9) | 24 x 25 | | | | |
| 3 | G44(↗)(CA) | UPRIGHT DIAGONAL ARROW | 21 x 15 | 1-4 x 6 | | 1 | (S) |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| | G48(CA) | SOUTH | 21 x 9 | | | | |
| 4 | G28-2(CA)(9) | ROUTE SHIELD (9) | 24 x 25 | 1-4 x 6 | | 1 | (S) |
| | G34(L+)(CA) | LEFT ARROW | 21 x 15 | | | | |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| 5 | G48(CA) | SOUTH | 21 x 9 | 1-4 x 6 | | 3 | (S) |
| | G28-2(CA)(17) | ROUTE SHIELD (17) | 24 x 25 | | | | |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| 6 | G48(CA) | SOUTH | 21 x 9 | 1-4 x 6 | | 3 | (S) |
| | G28-2(CA)(17) | ROUTE SHIELD (17) | 24 x 25 | | | | |
| | G34(R+)(CA) | RIGHT ARROW | 21 x 15 | | | | |
| 7 | M4-8 | DETOUR | 24 x 12 | 1-4 x 6 | | 6 | (S) |
| | G48(CA) | SOUTH | 21 x 9 | | | | |
| | G28-2(CA)(17) | ROUTE SHIELD (17) | 24 x 25 | | | | |
| 8 | G34(L+)(CA) | LEFT ARROW | 21 x 15 | 1-4 x 6 | | 1 | (S) |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| | G48(CA) | SOUTH | 21 x 9 | | | | |
| 9 | G28-2(CA)(17) | ROUTE SHIELD (17) | 24 x 25 | 1-4 x 6 | | 6 | (S) |
| | G44(↗)(CA) | UPRIGHT DIAGONAL ARROW | 21 x 15 | | | | |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| 9A | SC3(CA) | DETOUR (STRAIGHT AHEAD ARROW) | 48 x 18 | 1-4 x 6 | | 1 | (S) |
| | G48(CA) | SOUTH | 21 x 9 | | | | |
| | G27-2(CA)(880) | ROUTE SHIELD (880) | 30 x 25 | | | | |
| 10 | G27-2(CA)(17) | ROUTE SHIELD (17) | 24 x 25 | 1-4 x 6 | | 3 | (S) |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| | G48(CA) | SOUTH | 21 x 9 | | | | |
| 11 | G27-2(CA)(880) | ROUTE SHIELD (880) | 30 x 25 | 1-4 x 6 | | 4 | (S) |
| | G34(L+)(CA) | LEFT ARROW | 21 x 15 | | | | |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| 12 | G48(CA) | SOUTH | 21 x 9 | 1-4 x 6 | | 3 | (S) |
| | G28-2(CA)(880) | ROUTE SHIELD (880) | 30 x 25 | | | | |
| | G44(↗)(CA) | UPRIGHT DIAGONAL ARROW" | 21 x 15 | | | | |
| 13 | SC3(CA) | DETOUR (STRAIGHT AHEAD ARROW) | 48 x 18 | 1-4 x 6 | | 2 | (S) |
| | G47(CA) | NORTH | 21 x 9 | | | | |
| | G28-2(CA)(880) | ROUTE SHIELD (880) | 30 x 25 | | | | |

TRAFFIC HANDLING SIGN QUANTITIES

| SIGN No. | CODE | MESSAGE | PANEL SIZE | | WOOD POST | QUANTITY | REMARKS |
|----------|----------------|--------------------|------------|-----------|-----------|----------|---------|
| | | | INCHES | EA-INCHES | | | |
| 14 | M4-8 | DETOUR | 24 x 12 | 1-4 x 6 | | 2 | (S) |
| | G47(CA) | NORTH | 21 x 9 | | | | |
| | G28-2(CA)(880) | ROUTE SHIELD (880) | 30 x 25 | | | | |
| 15 | G34(R+)(CA) | RIGHT ARROW | 21 x 15 | 1-4 x 6 | | 1 | (S) |
| | M4-8 | DETOUR | 24 x 12 | | | | |
| | G47(CA) | NORTH | 21 x 9 | | | | |
| | | | | | | | |
| TOTAL | | | | | | 76 | |

(S) DENOTES STATIONARY MOUNTED SIGN
 EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

TRAFFIC HANDLING QUANTITIES
THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 DUC VO: JERILYN STRUVEN
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 REVISED BY: [Blank]
 DATE REVISED: [Blank]

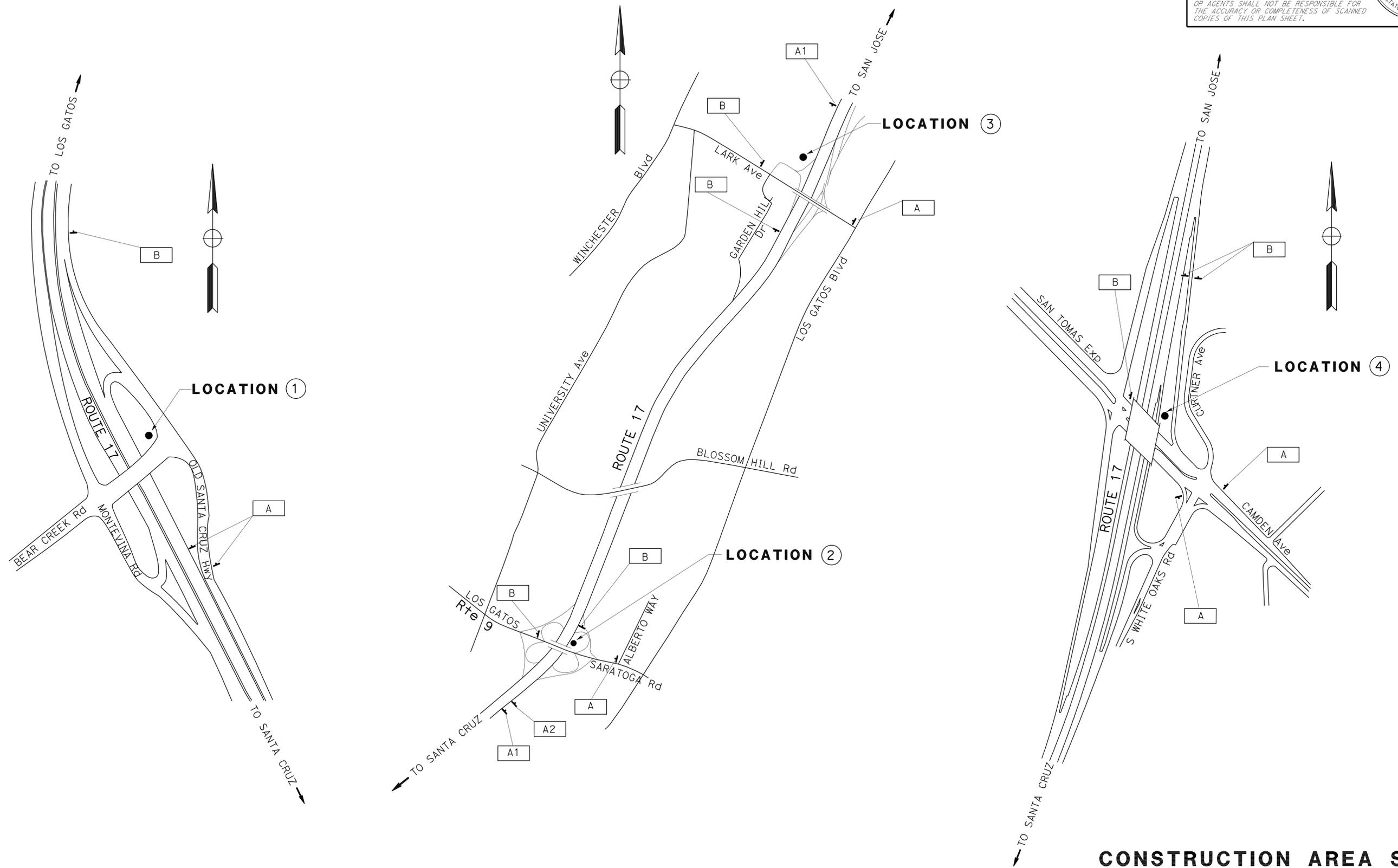
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 23 | 61 |

Jerilyn L. Struven 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
 No. 49964
 Exp. 2-31-10
 CIVIL
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:
 CONSTRUCTION AREA SIGN DESIGNATION
 LOCATION NUMBER
 CAMERA INSTALLATION

NOTE:
 EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS
 NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

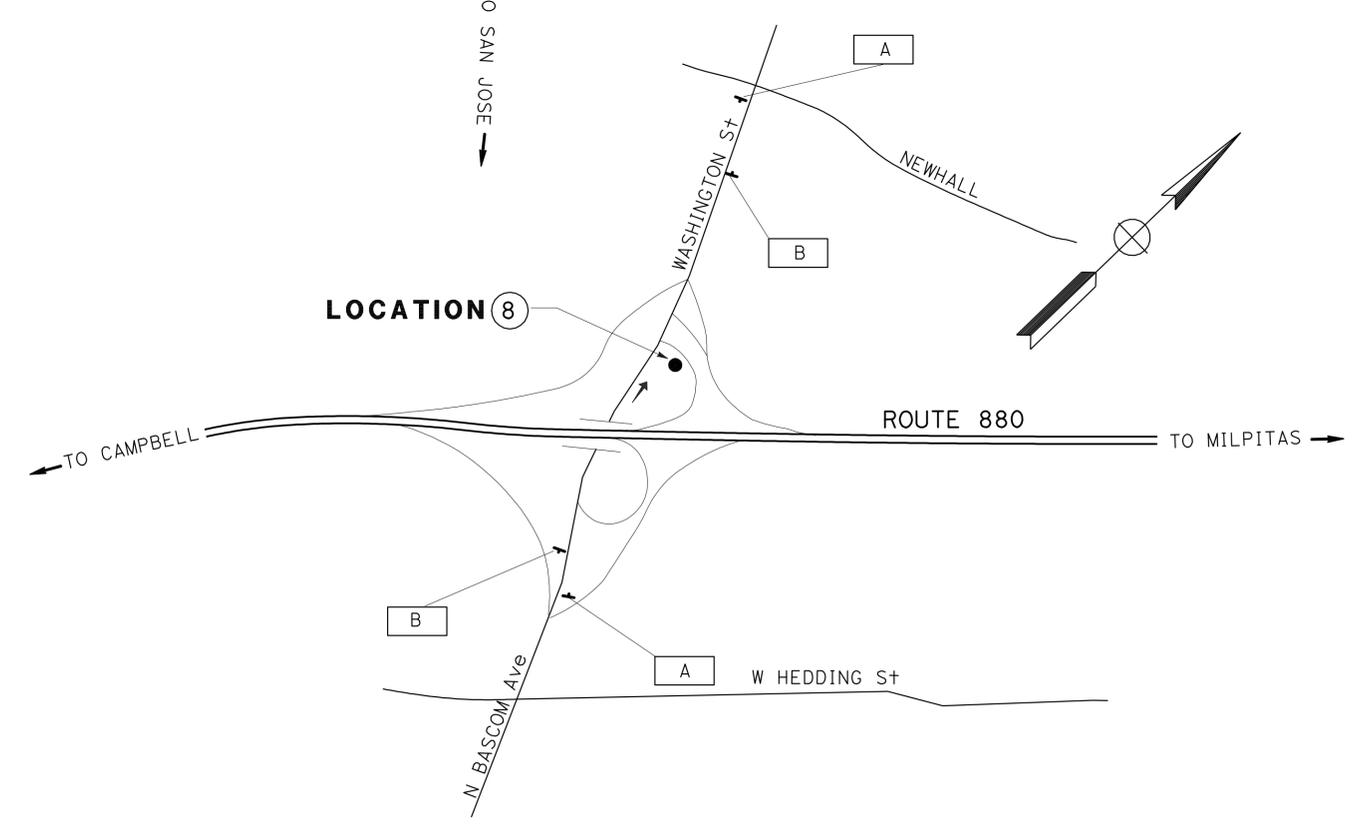
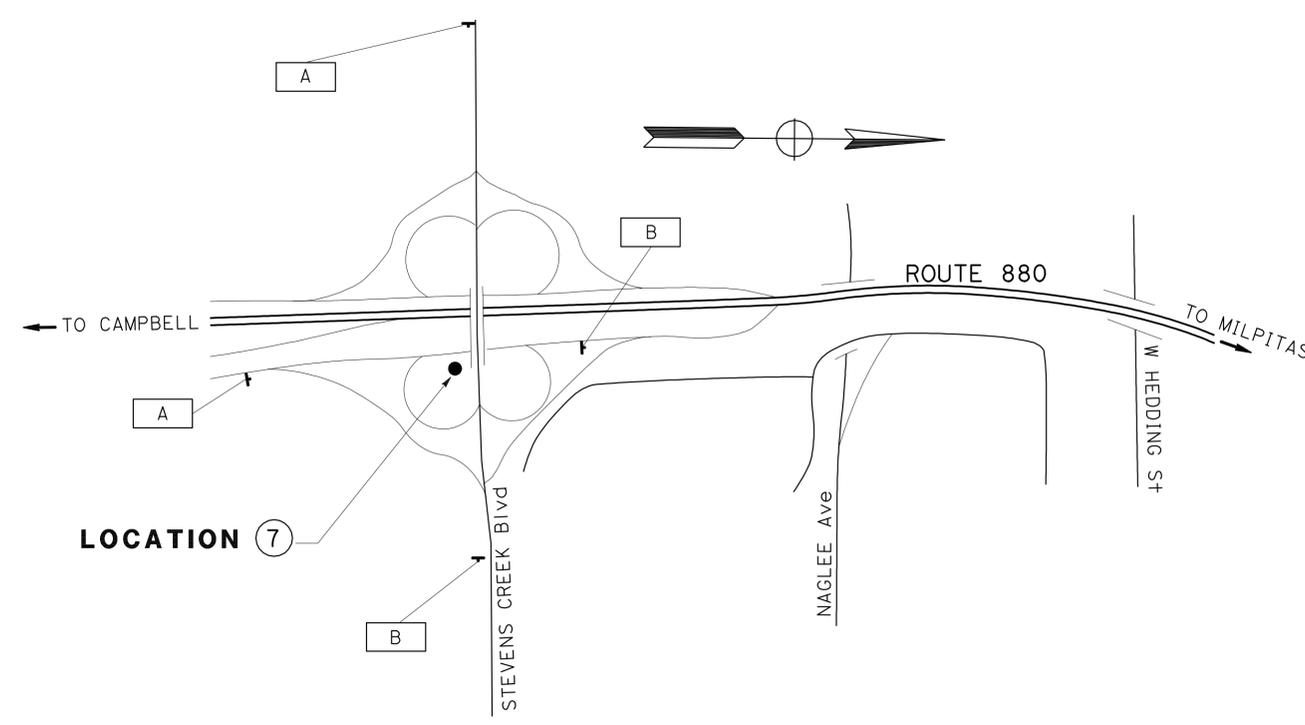
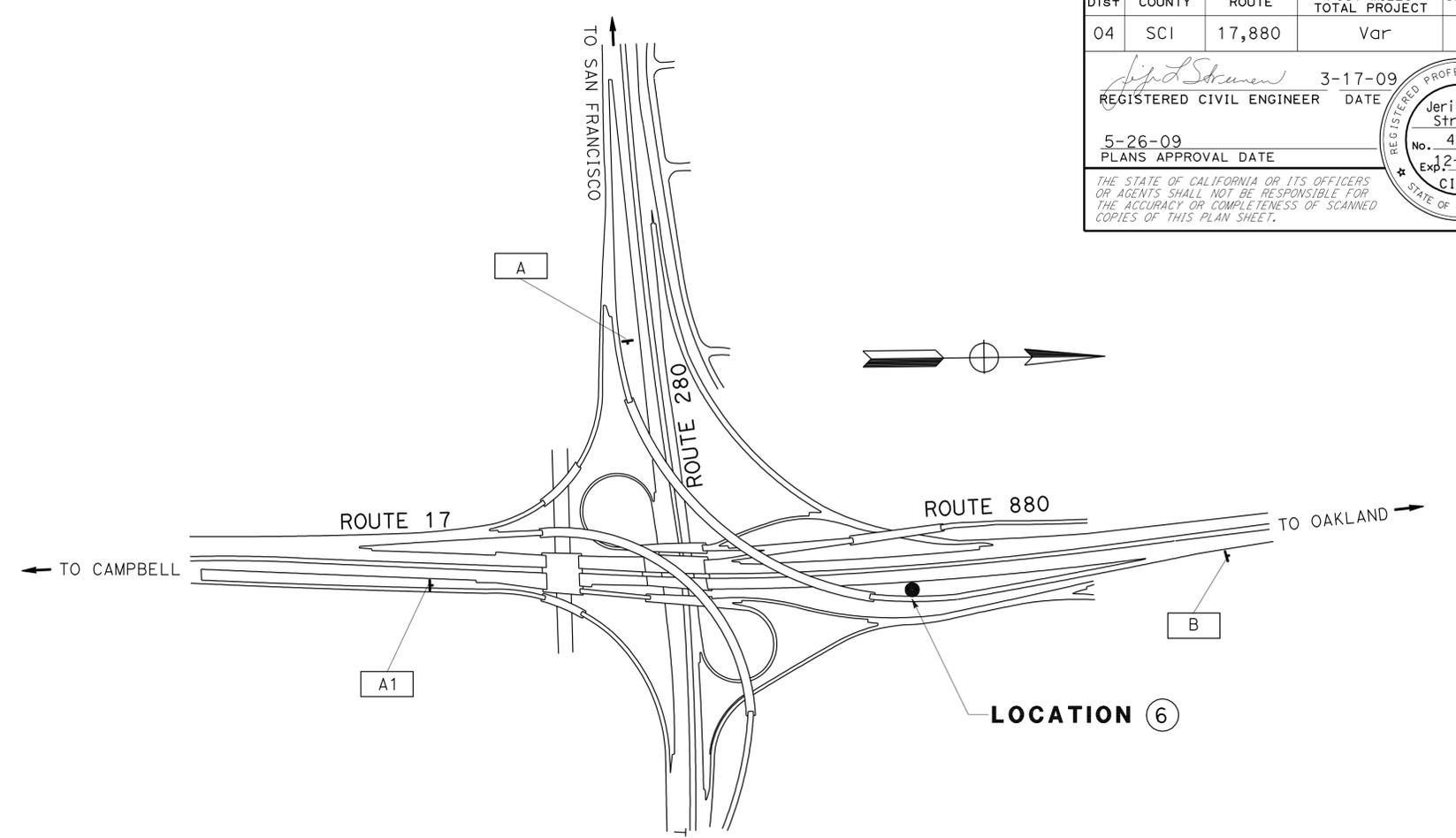
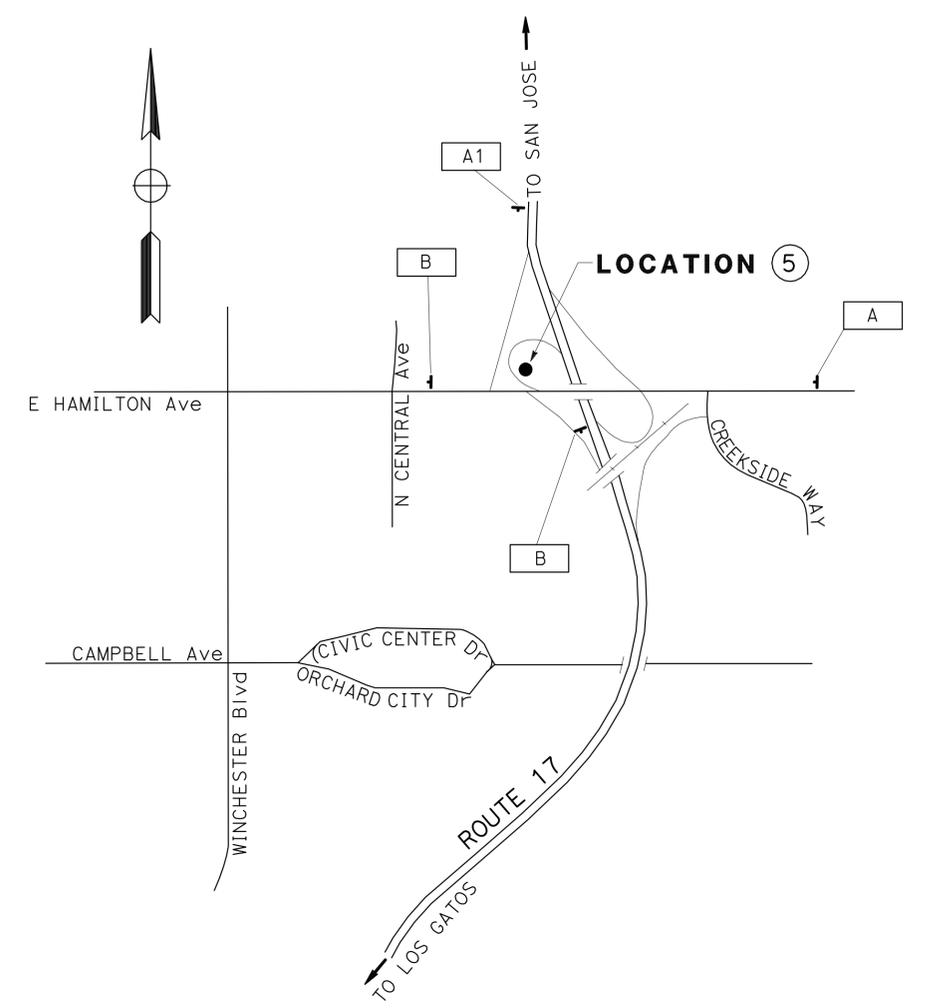
CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 TRAFFIC
 DUC VO: JERILYN STRUVEN
 REVISIONS: REVISED BY DATE REVISED
 CALCULATED/DESIGNED BY CHECKED BY
 x
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x
x

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 24 | 61 |

Jerilyn L. Struven 3-17-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE
 No. 49964
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



FOR NOTE AND LEGENDS, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

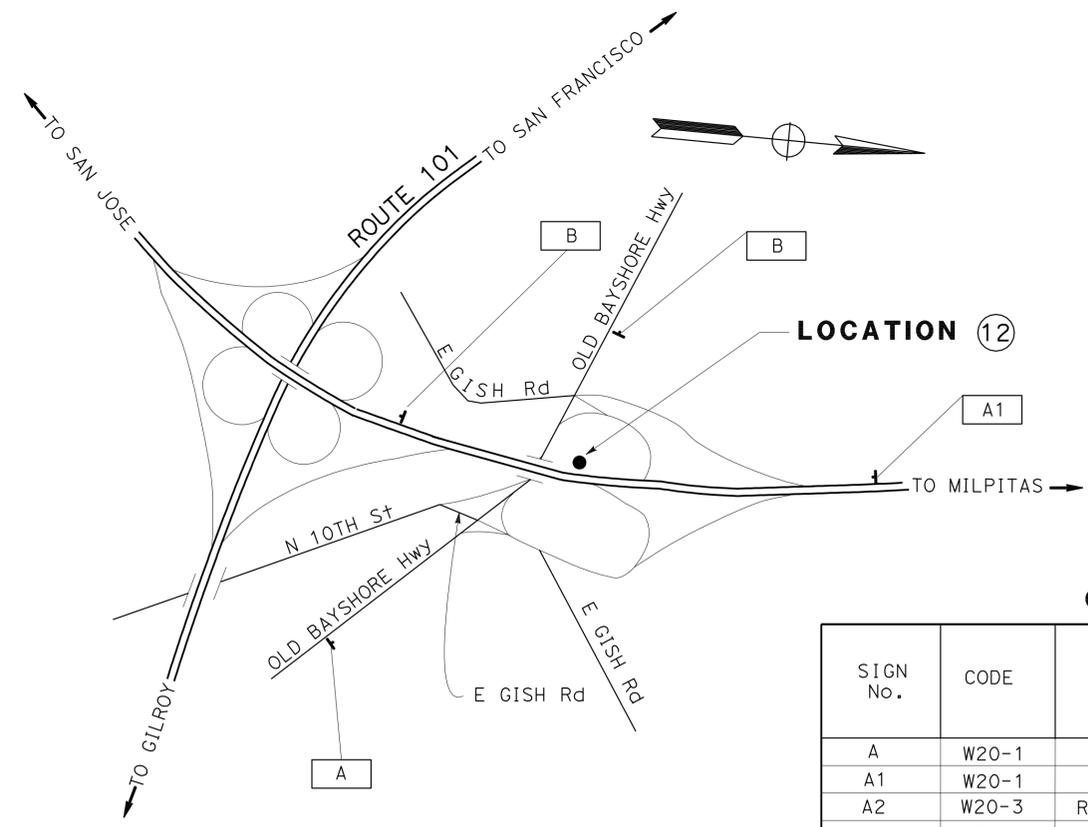
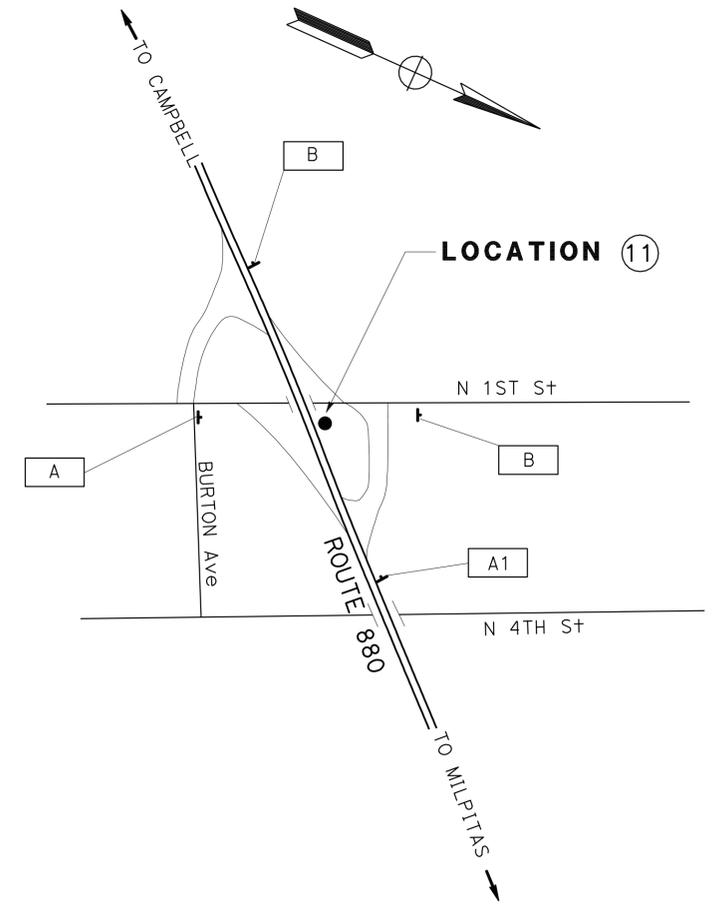
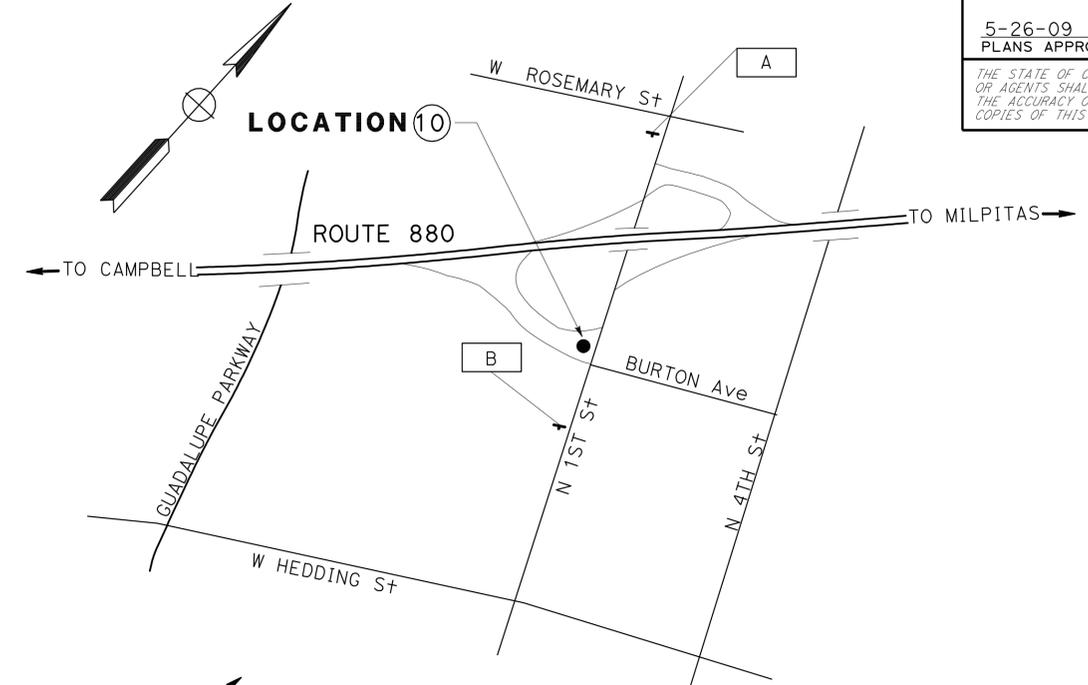
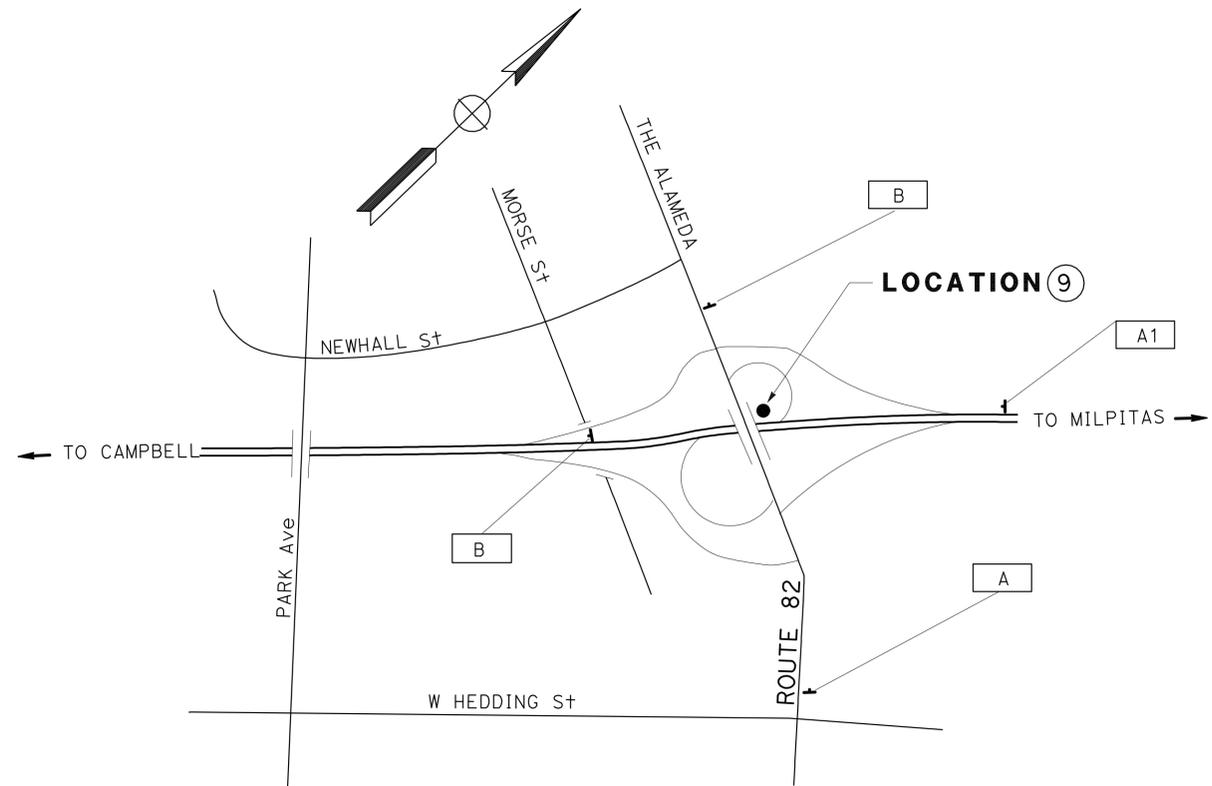
| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 25 | 61 |

Jerilyn L. Struven 3-17-09
 REGISTERED CIVIL ENGINEER DATE

5-26-09
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA



CONSTRUCTION AREA SIGNS

| SIGN No. | CODE | MESSAGE | PANEL SIZE | WOOD POST | QUANTITY | REMARKS |
|----------|-------|-------------------|------------|-----------|----------|---------|
| | | | INCHES | EA-INCHES | | |
| A | W20-1 | ROAD WORK AHEAD | 36 x 36 | 1-4 x 6 | 16 | (S) |
| A1 | W20-1 | ROAD WORK AHEAD | 48 x 48 | 1-4 x 6 | 7 | (S) |
| A2 | W20-3 | RAMP CLOSED AHEAD | 48 x 48 | 1-4 x 6 | 1 | (S) |
| B | G20-2 | END ROAD WORK | 36 x 18 | 1-4 x 4 | 22 | (S) |
| TOTAL | | | | | 46 | |

EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS

NO SCALE

FOR NOTE AND LEGENDS, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG

DUC VO: JERILYN STRUVEN

REVISOR: JERILYN STRUVEN

DATE: 3-17-09

DATE REVISOR: 5-26-09

DATE REVISION: 05-04-09

DATE PLOTTED: 05-04-09

TIME PLOTTED: 10:49

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

BORDER LAST REVISED 3/1/2007

FUNCTIONAL SUPERVISOR
 ULDARICO P. PEREZ

CALCULATED-DESIGNED BY
 CHECKED BY

SUSANA ONATE
 JIM LEM

REVISED BY
 DATE REVISED

ROADWAY QUANTITIES

| LOCATION | SHEET No. | MBGR | END | END CAP |
|------------|-----------|------|----------------------------|----------|
| | | | ANCHOR ASSEMBLY (TYPE SFT) | (TYPE A) |
| LOCATION 3 | L-1 | 25 | 1 | 1 |
| TOTAL | | 25 | 1 | 1 |

SUMMARY OF QUANTITIES

Q-1

| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 26 | 61 |

Peter Aquilera 3-17-09
 REGISTERED CIVIL ENGINEER DATE

5-26-09
 PLANS APPROVAL DATE

Peter Aquilera
 No. 55287
 Exp. 12-31-10
 CIVIL

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

RELATIVE BORDER SCALE IS IN INCHES

USERNAME => trmikesl
 DGN FILE => 415136pa001.dgn

CU 04222

EA 151361

LAST REVISION | DATE PLOTTED => 23-OCT-2009
 12-03-08 TIME PLOTTED => 10:49

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 27 | 61 |

| | |
|--------------------------------|---------|
| <i>Kenneth Y. Xu</i> | 3-17-09 |
| REGISTERED ELECTRICAL ENGINEER | DATE |

| | |
|---------|---------------------|
| 5-26-09 | PLANS APPROVAL DATE |
|---------|---------------------|

| | |
|------------|--------------|
| No. 15219 | Exp. 6-30-10 |
| ELECTRICAL | |

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

INDEX OF ELECTRICAL PLANS:

| SHEET No. | TITLE |
|-------------------|---|
| E-1 | MODIFY TRAFFIC OPERATIONS SYSTEM (ABBREVIATIONS, PROJECT NOTES, INDEX, AND LEGEND) |
| E-2 THROUGH E-12 | MODIFY TRAFFIC OPERATIONS SYSTEM (LOCATION 1 TO LOCATION 12) |
| E-13 | ELECTRICAL DETAILS (SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM TYPE III-A SERIES) |
| E-14 AND E-15 | ELECTRICAL DETAILS (TDC WIRING) |
| E-6 | ELECTRICAL DETAILS (CCTV WITH TELEPHONE SERVICE) |
| E-17 THROUGH E-18 | ELECTRICAL DETAILS (CCTV MOUNTING DETAILS) |
| E-19 | ELECTRICAL DETAILS (CCTV REPLACEMENT DETAILS) |

GENERAL NOTES:

- PARTIAL EXISTING ELECTRICAL SYSTEM RELATED TO PROPOSED WORK IS SHOWN ON THE PLANS FOR INFORMATION. LOCATIONS OF EXISTING EQUIPMENT ARE APPROXIMATE.
- NEW POLES AND CABINETS NOT PROTECTED BY EXISTING OR PROPOSED METAL BEAM GUARD RAIL SHALL BE PLACED A MINIMUM OF 30' FROM EDGE OF TRAVELED WAY, UNLESS OTHERWISE NOTED.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS:

(SEE ALSO RSP ES-1A, RSP ES-1B AND RSP ES-1C FOR OTHER SYMBOLS AND ABBREVIATIONS)

| PROPOSED | EXISTING | DESCRIPTION |
|----------|----------|-------------------------------------|
| TC | +c | TELEPHONE CABLE |
| TVL | +vl | TELEVISION VIDEO CABLE |
| TVC | +vc | TELEVISION CONTROL CABLE |
| TVP | +vp | TELEVISION POWER CONDUCTORS |
| TVCP | +vcp | TELEVISION CONTROL POWER CONDUCTORS |
| HCC | | HYBRID CAMERA CABLE |
| TOU | | TIME-OF-USE |
| CT ID | | CALTRANS IDENTIFICATION NUMBER |
| DIAG | | DIAGONAL |
| | mvds | MICROWAVE VEHICLE DETECTION SYSTEM |

LEGEND:

 EXISTING TELEPHONE SERVICE POINT

PROJECT NOTES:

- INSTALL 1 HCC.
-  Exist SERVICE EQUIPMENT ENCLOSURE, INSTALL NEW SERVICE EQUIPMENT ENCLOSURE ON Exist FOUNDATION WITH TOU METER. SEE SERVICE WIRING DIAGRAM ON E-13 (FOR 120/240 V SERVICES).
- Exist 1 1/2"C, 1 tc.
- Exist ELECTRICAL EQUIPMENT TO REMAIN IN PLACE.
- INSTALL 2"C, 1 HCC.
- INSTALL CAMERA CONTROL UNIT AND ALL ASSOCIATED EQUIPMENT IN Exist MODEL 334 CONTROLLER CABINET.
- INSTALL INTEGRATED CAMERA UNIT WITH TYPE CCTV 40 POLE.
- REMOVE 1 +vl, 1 +vc, 1 +vp, 1 +vcp AND INSTALL 1 HCC.
- REMOVE 1 +vl, 1 +vc.
- REMOVE 1 +vp, 1 +vcp.
- Exist 1 1/2"C, INSTALL 1 TC.
-  ALL Exist cctv EQUIPMENT. INSTALL ONE SET OF CAMERA CONTROL UNIT AND ALL ASSOCIATED EQUIPMENT IN Exist MODEL 334 CONTROLLER CABINET.
-  Exist cctv UNIT, CAMERA PAN AND TILT UNIT, JUNCTION BOX WITH STRAPS AND CONDUIT ON Exist cctv POLE. INSTALL INTEGRATED CAMERA UNIT WITH CAMERA MOUNTING ADAPTER ON Exist CCTV POLE. SEE SHEET E-19 FOR DETAILS.
- Exist 1 1/2"C, 3#2.
- METAL BEAM GUARD RAILING SEE L-1.
- INSTALL A PULL ROPE IN EXISTING CONDUIT.
- INSTALL TELEPHONE DEMARCATION CABINET, TYPE B. FOR WIRING DIAGRAM, SEE SHEET E-14 AND E-15.
- INSTALL 2"C, TYPE 3, SCHEDULE 80, MT.
- Exist TELEPHONE SERVICE CABLE IN EXISTING CONDUIT.

MODIFY TRAFFIC OPERATIONS SYSTEM (ABBREVIATIONS, PROJECT NOTES, INDEX, AND LEGEND)

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 HENRY HOANG
 DORIS YANG
 KENNETH XU
 ELECTRICAL

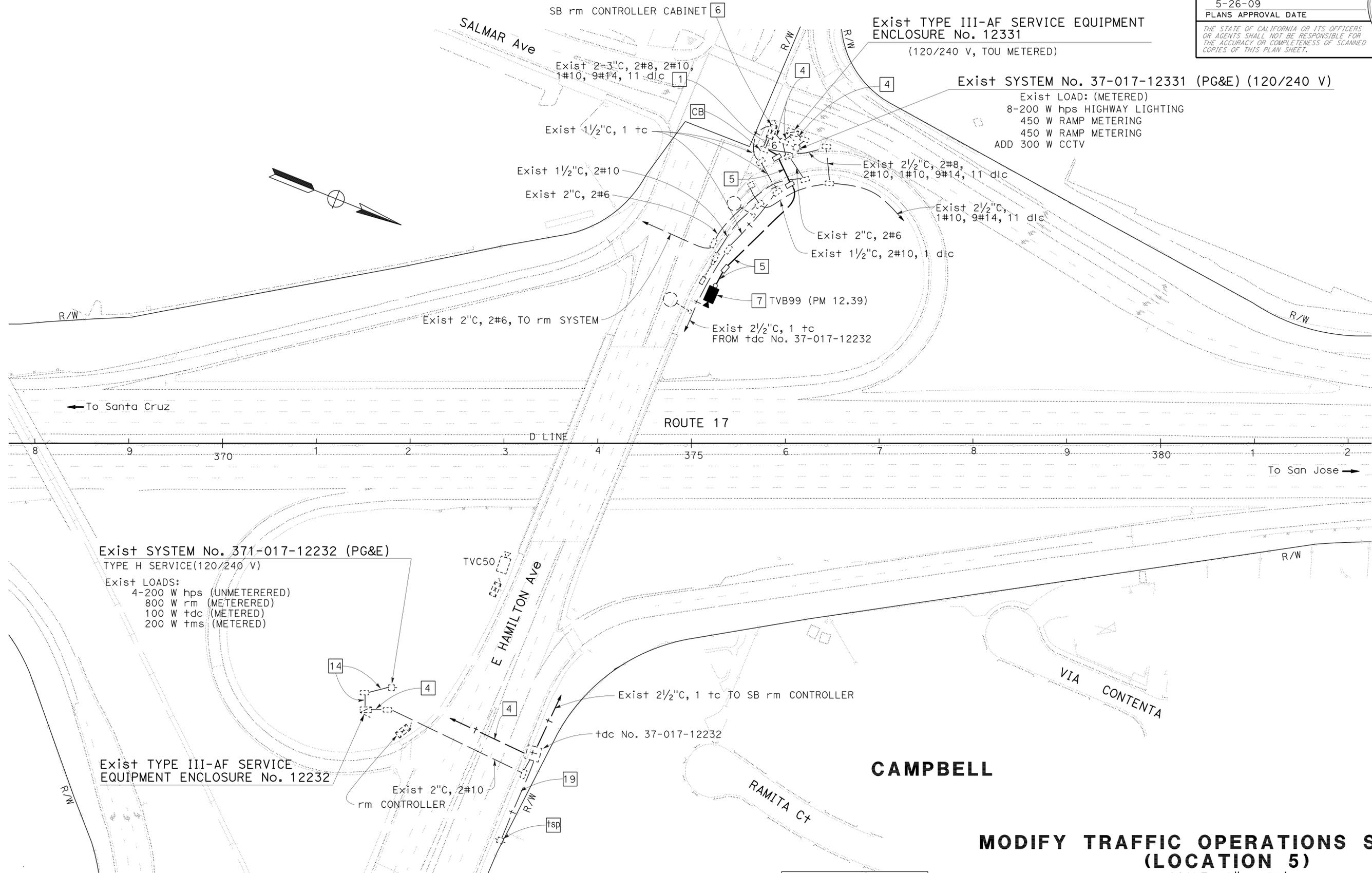
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|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 32 | 61 |

| | |
|--------------------------------|---------|
| <i>Kenneth Y. Xu</i> | 3-17-09 |
| REGISTERED ELECTRICAL ENGINEER | DATE |
| 5-26-09 | |
| PLANS APPROVAL DATE | |

REGISTERED PROFESSIONAL ENGINEER
 Kenneth Y. Xu
 No. 15219
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

MODIFY TRAFFIC OPERATIONS SYSTEM (LOCATION 5)

SCALE: 1" = 50'

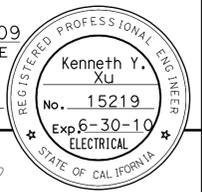
E-6

| | | | |
|--|-----------------------|-------------|------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | REVISOR | DATE |
| ELECTRICAL | KENNETH XU | HENRY HOANG | |
| <i>Caltrans</i> | | DORIS YANG | |
| | CHECKED BY | DESIGNED BY | |
| | | | |

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 33 | 61 |

| | |
|--------------------------------|---------|
| <i>Kenneth Y. Xu</i> | 3-17-09 |
| REGISTERED ELECTRICAL ENGINEER | DATE |
| 5-26-09 | |
| PLANS APPROVAL DATE | |

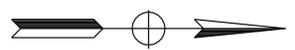
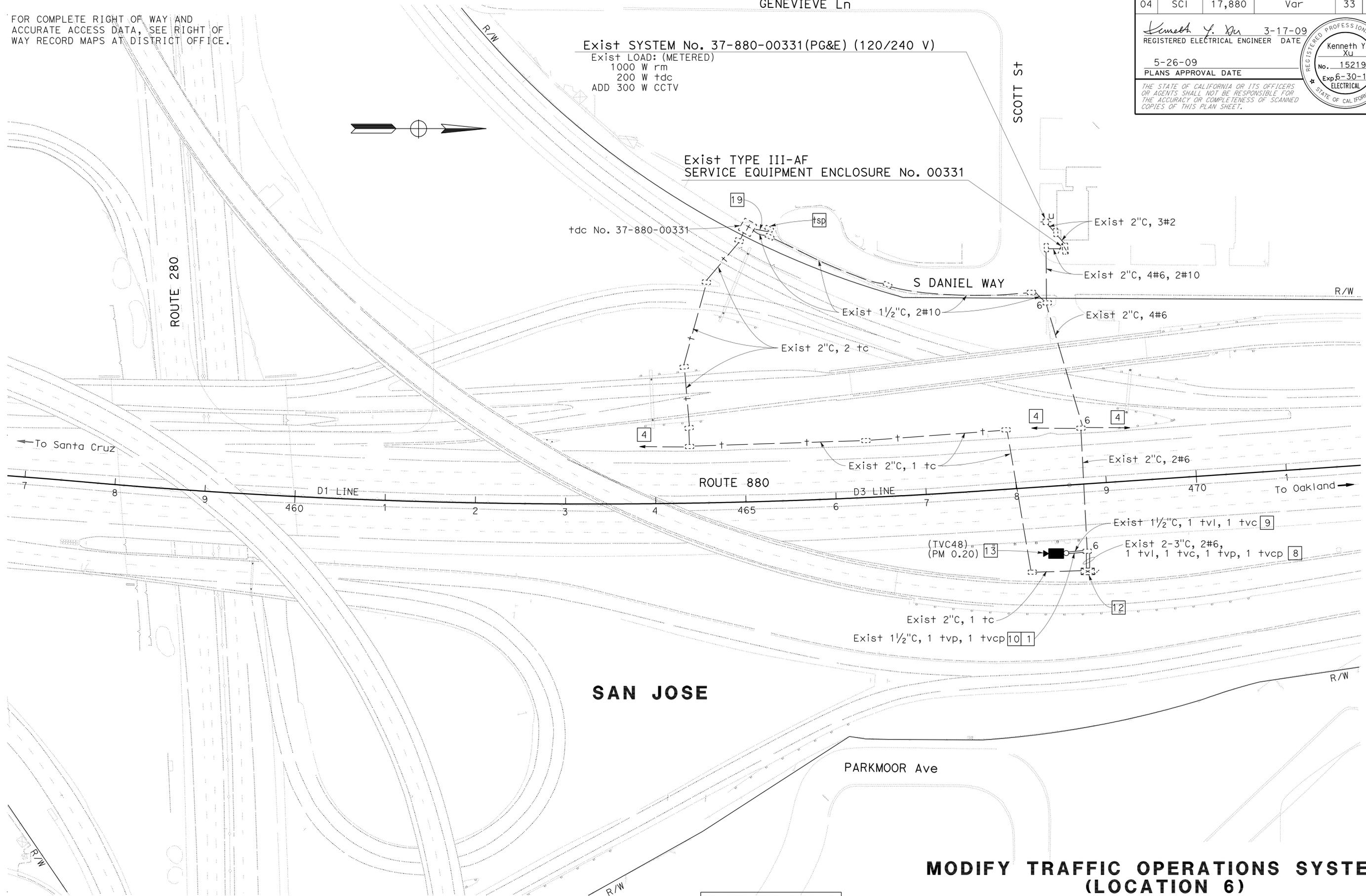
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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Exist SYSTEM No. 37-880-00331(PG&E) (120/240 V)
 Exist LOAD: (METERED)
 1000 W rm
 200 W tdc
 ADD 300 W CCTV

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 00331



| | |
|--|--------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | ELECTRICAL |
| Caltrans | |
| FUNCTIONAL SUPERVISOR | KENNETH XU |
| CALCULATED-DESIGNED BY | CHECKED BY |
| HENRY HOANG | DORIS YANG |
| REVISED BY | DATE REVISED |

MODIFY TRAFFIC OPERATIONS SYSTEM (LOCATION 6)

SCALE: 1" = 50'

E-7

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

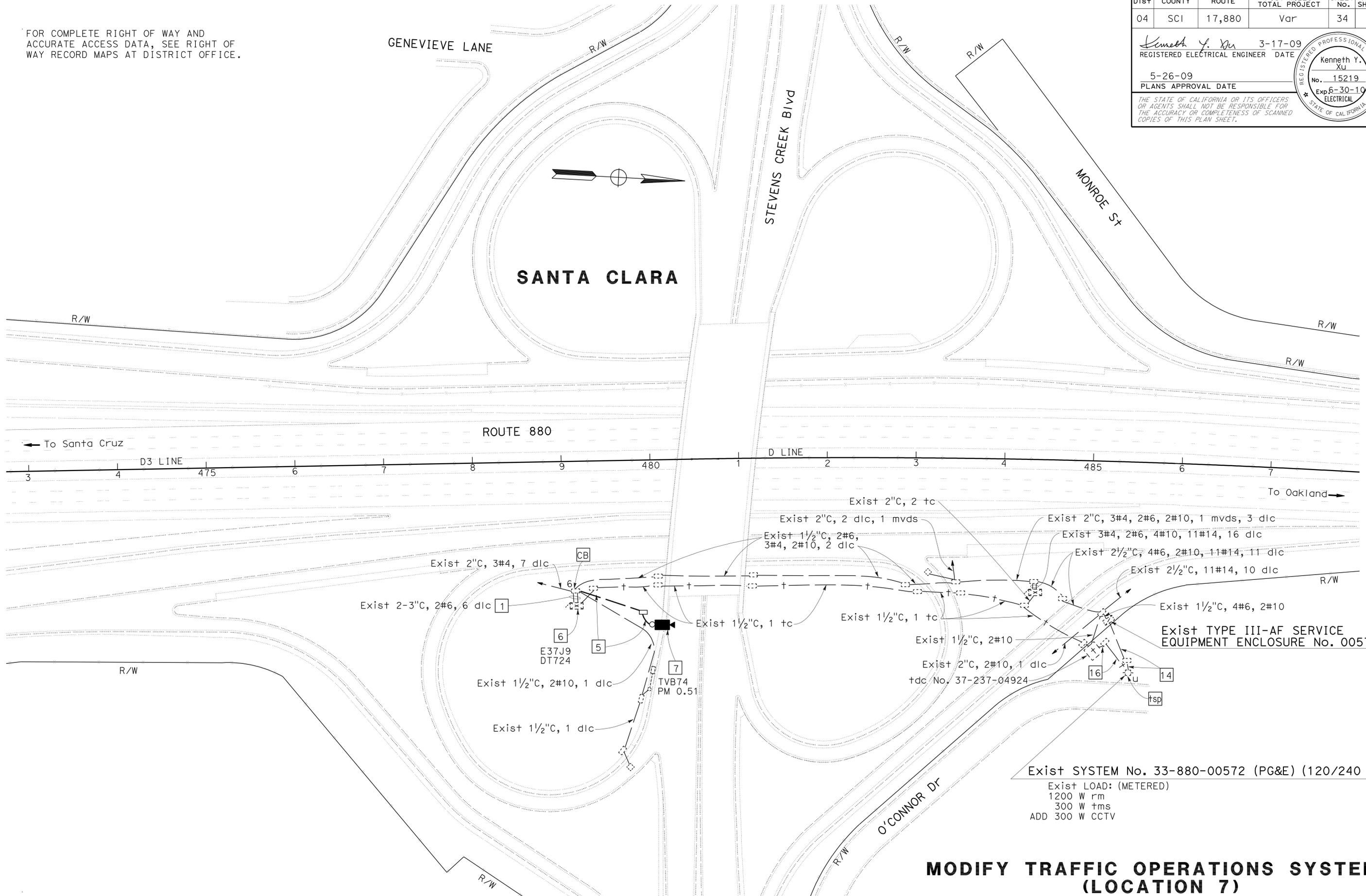
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 34 | 61 |

Kenneth Y. Xu 3-17-09
 REGISTERED ELECTRICAL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE

Kenneth Y. Xu
 No. 15219
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



Exist SYSTEM No. 33-880-00572 (PG&E) (120/240 V)
 Exist LOAD: (METERED)
 1200 W rm
 300 W tms
 ADD 300 W CCTV

MODIFY TRAFFIC OPERATIONS SYSTEM (LOCATION 7)
 SCALE: 1" = 50'

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Caltrans
 ELECTRICAL
 FUNCTIONAL SUPERVISOR: KENNETH XU
 CALCULATED/DESIGNED BY: HENRY HOANG
 CHECKED BY: DORIS YANG
 REVISED BY: HENRY HOANG
 DATE REVISED: DORIS YANG

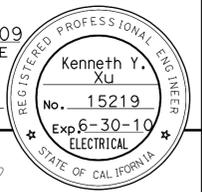
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

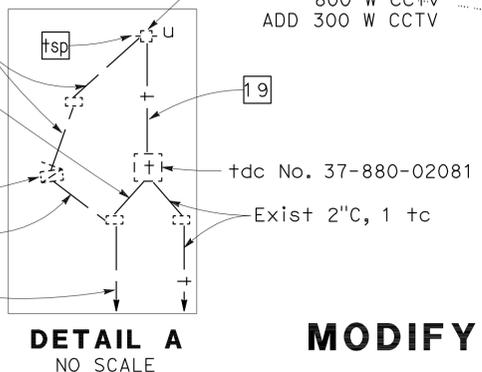
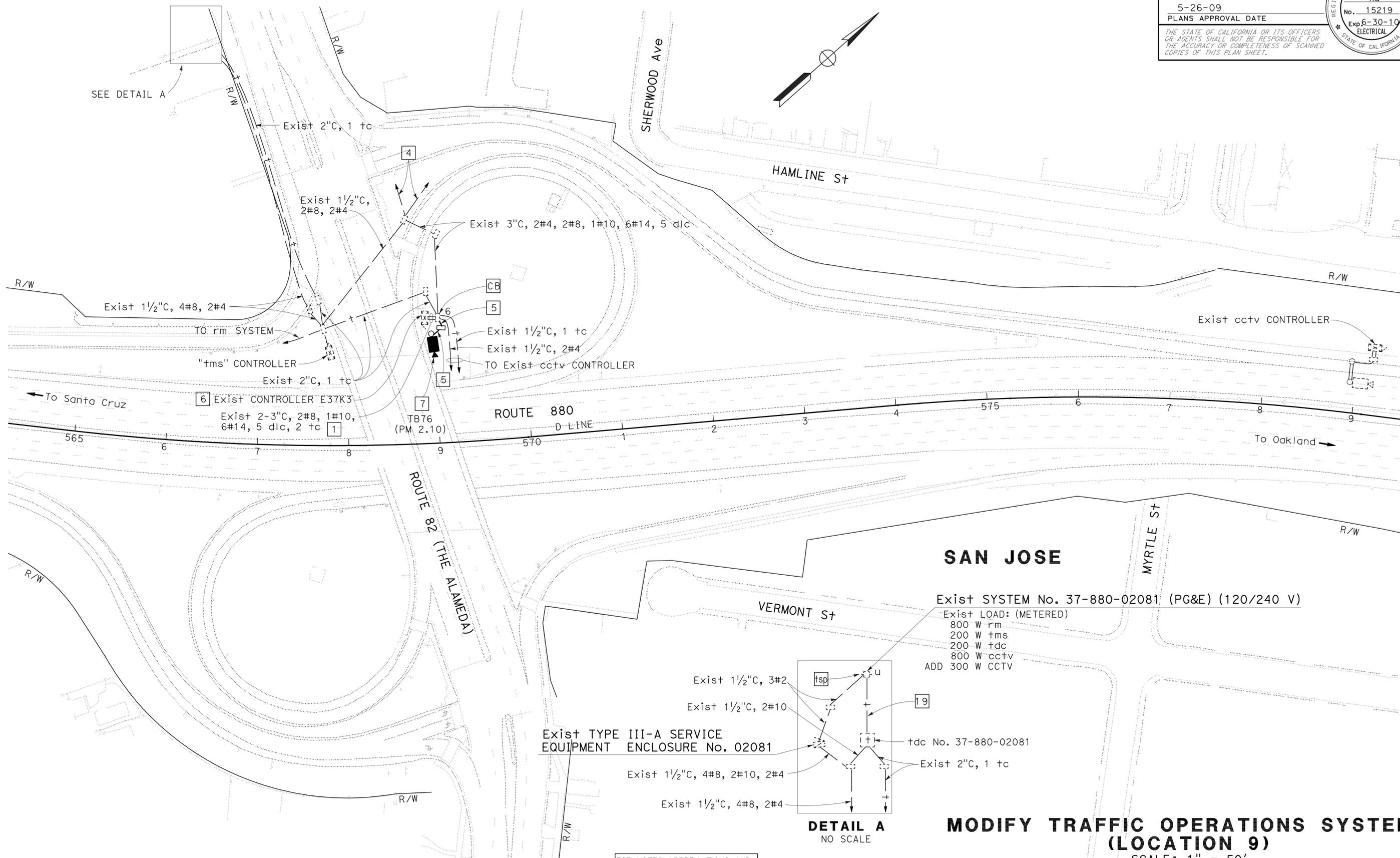
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 36 | 61 |

| | |
|--------------------------------|---------|
| <i>Kenneth Y. Xu</i> | 3-17-09 |
| REGISTERED ELECTRICAL ENGINEER | DATE |
| 5-26-09 | |
| PLANS APPROVAL DATE | |

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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



Exist SYSTEM No. 37-880-02081 (PG&E) (120/240 V)
 Exist LOAD: (METERED)
 800 W rm
 200 W tms
 200 W tdc
 800 W cctv
 ADD 300 W CCTV

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trmikesl
 DGN FILE => 415136u0010.dgn

CU 04222

EA 151361

E-10

| | | | |
|--|-----------------------|------------------------|--------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | REVISOR |
| Caltrans | KENNETH XU | HENRY HOANG | DORIS YANG |
| ELECTRICAL | CHECKED BY | DESIGNED BY | DATE REVISOR |
| | | | |

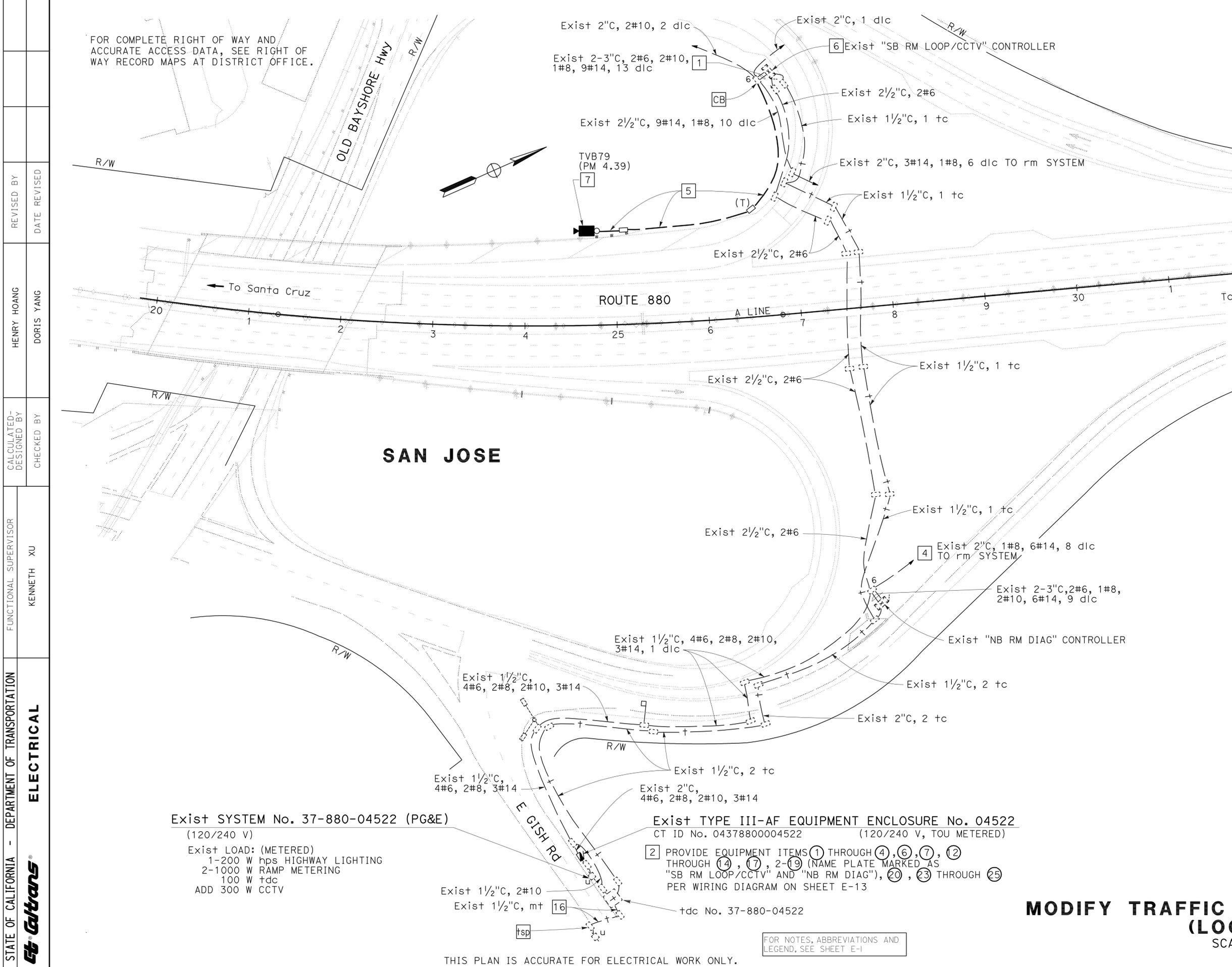
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 38 | 61 |

| | |
|--------------------------------|---------|
| <i>Kenneth Y. Xu</i> | 3-17-09 |
| REGISTERED ELECTRICAL ENGINEER | DATE |
| 5-26-09 | |
| PLANS APPROVAL DATE | |

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FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



Exist SYSTEM No. 37-880-04522 (PG&E)
 (120/240 V)
 Exist LOAD: (METERED)
 1-200 W hps HIGHWAY LIGHTING
 2-1000 W RAMP METERING
 100 W tdc
 ADD 300 W CCTV

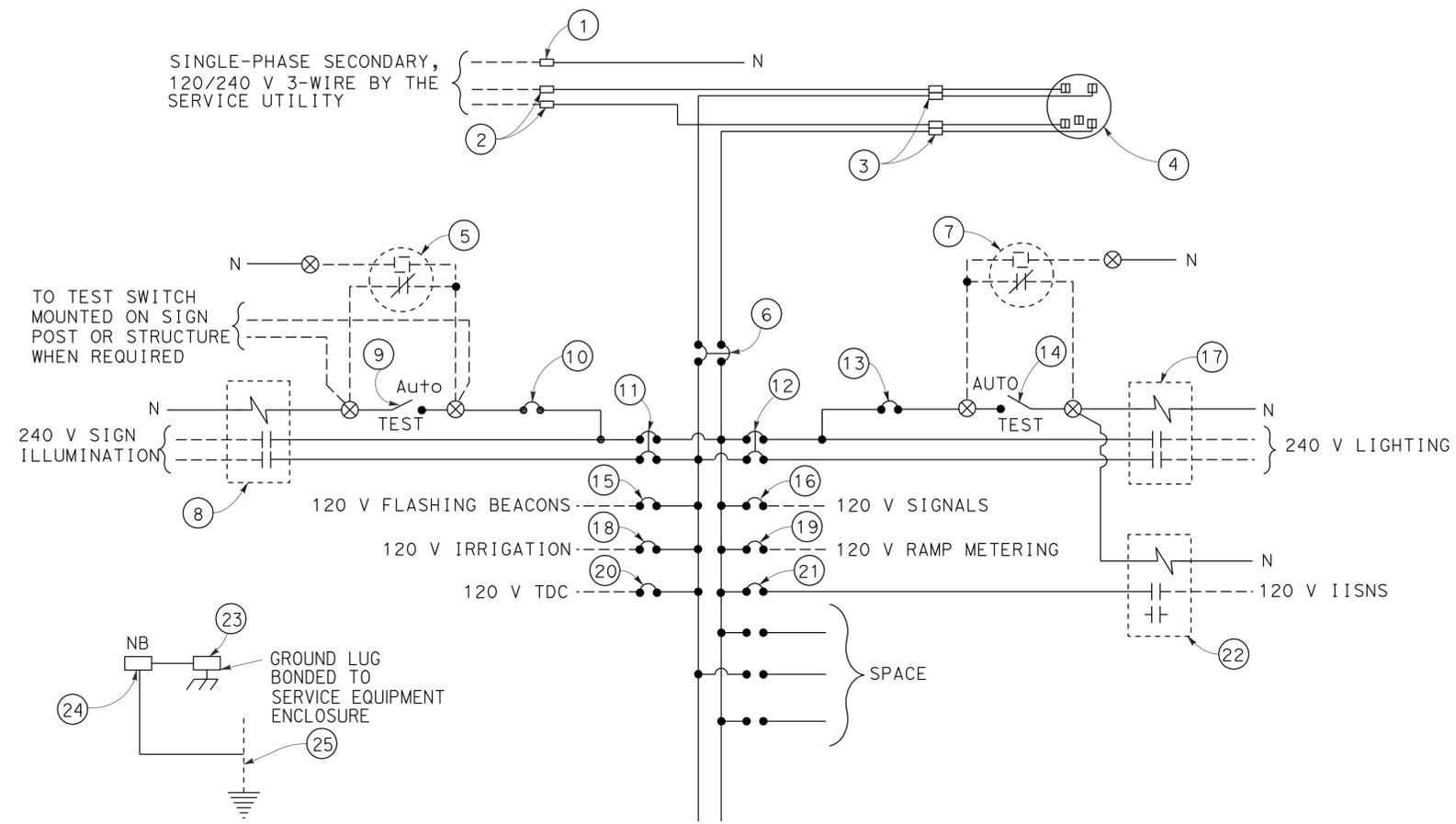
Exist TYPE III-AF EQUIPMENT ENCLOSURE No. 04522
 CT ID No. 04378800004522 (120/240 V, TOU METERED)
 [2] PROVIDE EQUIPMENT ITEMS [1] THROUGH [4], [6], [7], [12] THROUGH [14], [17], 2-[19] (NAME PLATE MARKED AS "SB RM LOOP/CCTV" AND "NB RM DIAG"), [20], [23] THROUGH [25] PER WIRING DIAGRAM ON SHEET E-13

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY TRAFFIC OPERATIONS SYSTEM (LOCATION 12)

SCALE: 1" = 50'



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

NOTES: (FOR SERVICE EQUIPMENT)

- ITEM No. (1) AND (24) SHALL BE ISOLATED FROM THE CABINET.
- PHOTOELECTRIC CONTROL SHALL BE TYPE II.

TYPE III-A SERVICE (120/240 V) EQUIPMENT LEGEND

| ITEM No. | COMPONENT | NAMEPLATE DESCRIPTION | ITEM No. | COMPONENT | NAMEPLATE DESCRIPTION |
|----------|--------------------------|-------------------------------|----------|------------------------------|-------------------------------|
| (1) | NEUTRAL LUG | | (14) | 15 A, 1P, TEST SWITCH | LIGHTING CONTROL TEST SWITCH |
| (2) | LANDING LUG | | (15) | 15 A, 120 V, 1P, CB | FLASHING BEACON |
| (3) | TEST BYPASS FACILITY | | (16) | 50 A, 120 V, 1P, CB | SIGNALS |
| (4) | METER SOCKET AND SUPPORT | | (17) | 30 A, 2PNO, CONTACTOR | LIGHTING |
| (5) | PHOTOELECTRIC UNIT | | (18) | 20 A, 120 V, 1P, CB | IRRIGATION |
| (6) | 100 A, 240 V, 2P, CB | MAIN BREAKER | (19) | 30 A, 120 V, 1P, CB | RAMP METERING |
| (7) | PHOTOELECTRIC UNIT | | (20) | 15 A, 120 V, 1P, CB | TELEPHONE DEMARCATION CABINET |
| (8) | 30 A, 2PNO, CONTACTOR | SIGN ILLUMINATION | (21) | 15 A, 120 V, 1P, CB | IISNS |
| (9) | 15 A, 1P, TEST SWITCH | SIGN ILLUMINATION TEST SWITCH | (22) | 30 A, 2PNO, CONTACTOR | IISNS |
| (10) | 15 A, 120 V, 1P, CB | SIGN ILLUMINATION CONTROL | (23) | GROUND LUG | |
| (11) | 30 A, 240 V, 2P, CB | SIGN ILLUMINATION | (24) | SOLID NEUTRAL TERMINAL STRIP | |
| (12) | 30 A, 240 V, 2P, CB | LIGHTING | (25) | GROUNDING ELECTRODE | |
| (13) | 15 A, 120 V, 1P, CB | LIGHTING CONTROL | | | |

**MODIFY TRAFFIC OPERATIONS SYSTEM
(SERVICE EQUIPMENT AND TYPICAL
WIRING DIAGRAM TYPE III-A SERIES)**

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1



USERNAME => trmikesl
DGN FILE => 415136u0013.dgn

CU 04222

EA 151361

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL
 FUNCTIONAL SUPERVISOR: KENNETH XU
 CALCULATED/DESIGNED BY: HENRY HOANG
 CHECKED BY: DORIS YANG
 REVISED BY: HENRY HOANG
 DATE REVISED:

LAST REVISION: 05-09-09
 DATE PLOTTED => 23-OCT-2009
 TIME PLOTTED => 10:52

ABBREVIATIONS (FOR THIS SHEET ONLY)

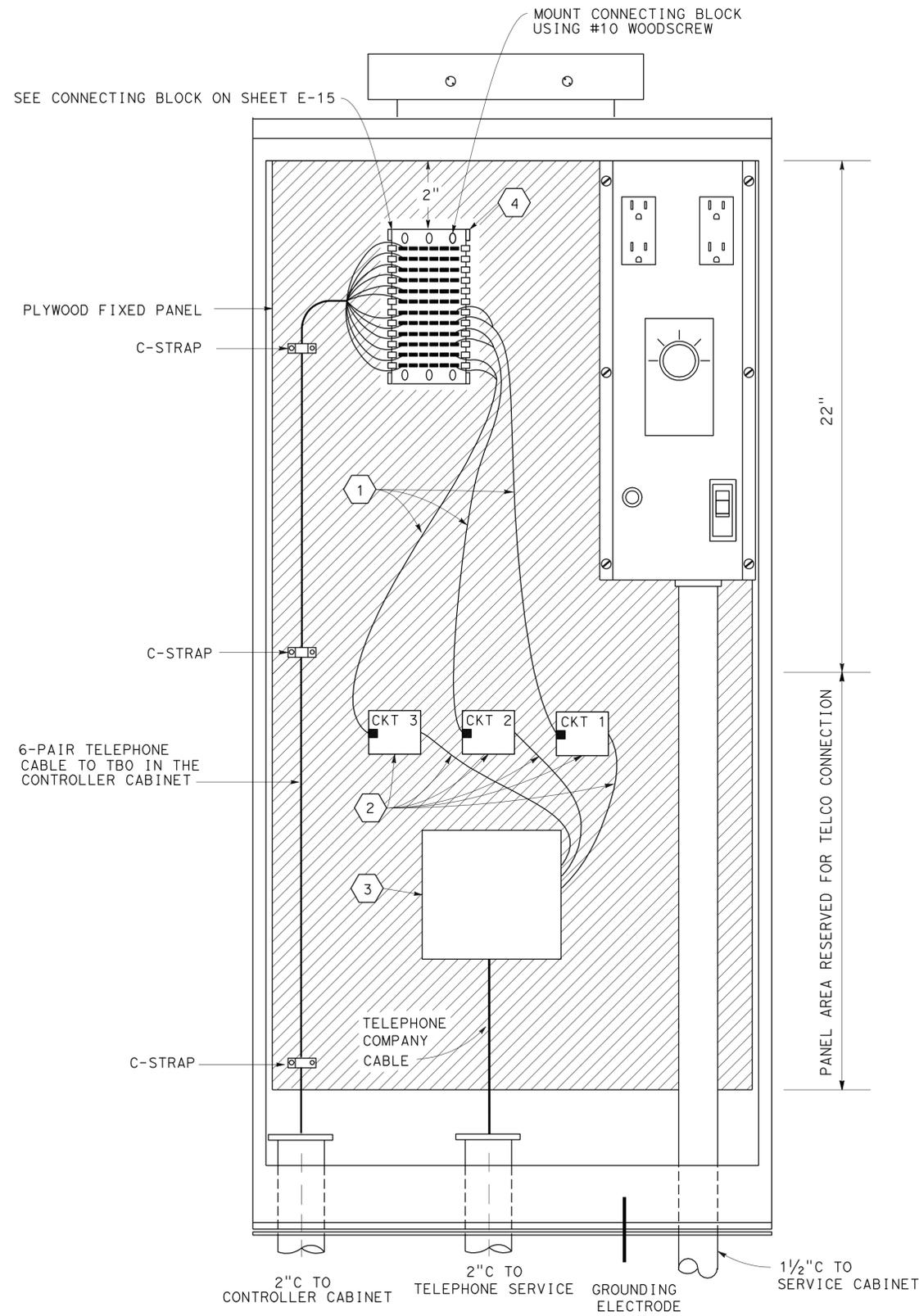
N/C NO CONNECTION
 TBO TERMINAL BLOCK OUTPUT
 TC TELEPHONE CABLE

CONDUCTOR LIST FOR DEMARCATION CABINET

| CABLE TYPE | FUNCTION | PAIR COLORS | 12 ROW PUNCH BLOCK |
|------------|-------------------------------|----------------|--------------------|
| TC | SPARE | WHITE & BLUE | ROW 1, ROW 2 |
| TC | SPARE | WHITE & ORANGE | ROW 3, ROW 4 |
| TC | SPARE | WHITE & GREEN | ROW 5, ROW 6 |
| TC | CIRCUIT 1 | WHITE & BROWN | ROW 7, ROW 8 |
| TC | CIRCUIT 2 | WHITE & GRAY | ROW 9, ROW 10 |
| TC | CIRCUIT 3 (DIAL-UP: T/R PAIR) | RED & BLUE | ROW 11, ROW 12 |

NOTES: (FOR THIS SHEET ONLY)

- ① 3' SINGLE ENDED 2-PAIR MODULAR CORD WITH RJ11 PLUG CONNECTOR. CONDUCTORS SHALL BE 22 AWG, SOLID.
- ② SERVICE CORD AND CONNECTION BLOCK FURNISHED AND INSTALLED BY TELEPHONE COMPANY.
- ③ TELEPHONE COMPANY STANDARD PROTECTOR EQUIPMENT FURNISHED AND INSTALLED BY TELEPHONE COMPANY.
- ④ CONNECTING BLOCK SHALL BE TYPE SIEMON S66B1-6 OR EQUIVALENT.



TELEPHONE DEMARCATION CABINET, TYPE B WIRING DETAIL

SEE RSP ES-3E

**ELECTRICAL DETAILS
(TDC WIRING)
NO SCALE**

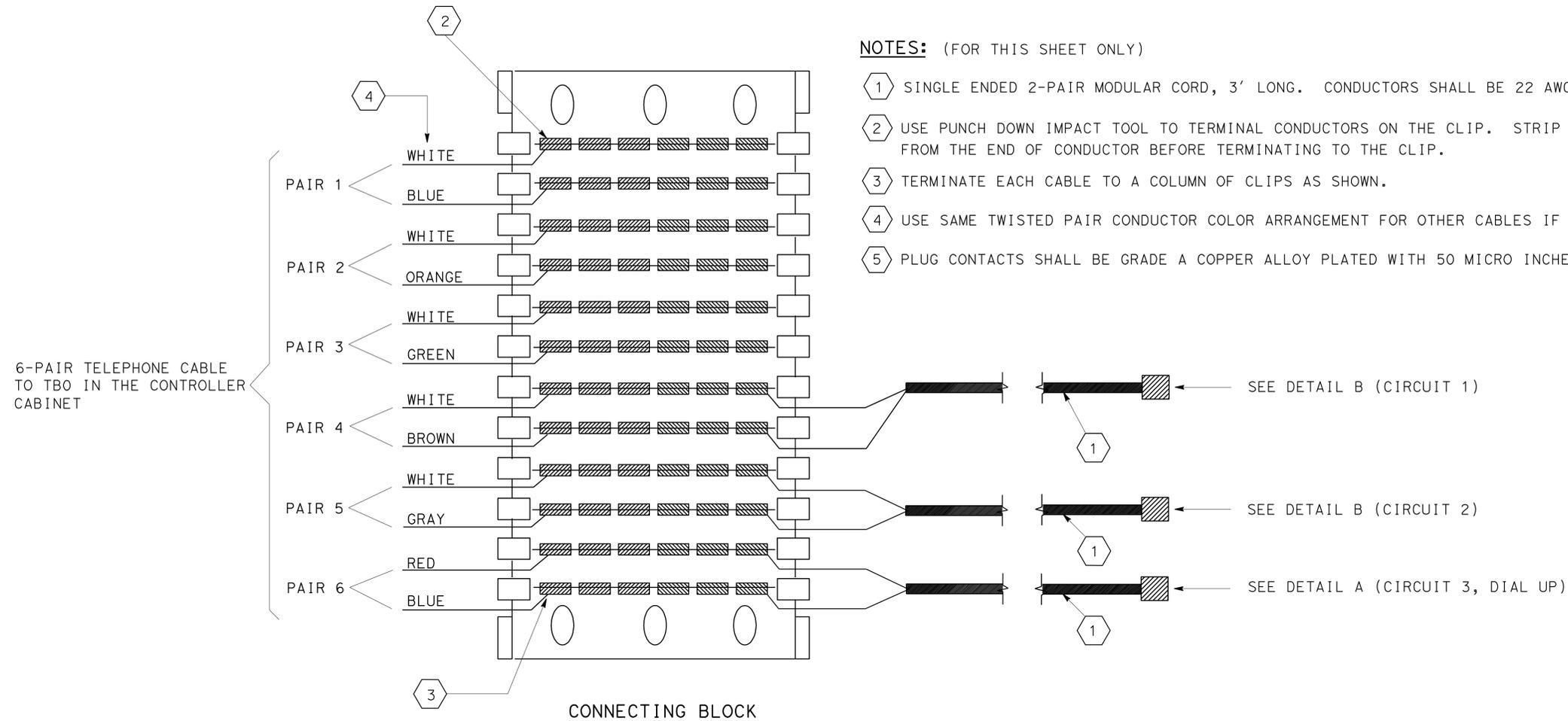
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL
 FUNCTIONAL SUPERVISOR: KENNETH XU
 CALCULATED-DESIGNED BY: HENRY HOANG
 CHECKED BY: DORIS YANG
 REVISED BY: HENRY HOANG
 DATE REVISED:

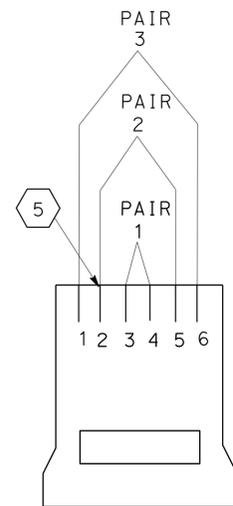
NOTES: (FOR THIS SHEET ONLY)

- ① SINGLE ENDED 2-PAIR MODULAR CORD, 3' LONG. CONDUCTORS SHALL BE 22 AWG, SOLID.
- ② USE PUNCH DOWN TOOL TO TERMINAL CONDUCTORS ON THE CLIP. STRIP INSULATION 1/4" FROM THE END OF CONDUCTOR BEFORE TERMINATING TO THE CLIP.
- ③ TERMINATE EACH CABLE TO A COLUMN OF CLIPS AS SHOWN.
- ④ USE SAME TWISTED PAIR CONDUCTOR COLOR ARRANGEMENT FOR OTHER CABLES IF REQUIRED.
- ⑤ PLUG CONTACTS SHALL BE GRADE A COPPER ALLOY PLATED WITH 50 MICRO INCHES GOLD OVER NICKEL.



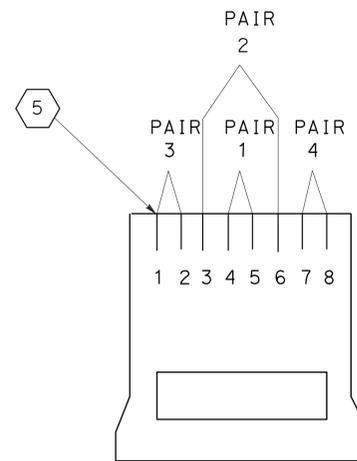
ABBREVIATIONS (FOR THIS SHEET ONLY)

- N/C NO CONNECTION
- TBO TERMINAL BLOCK OUTPUT
- TC TELEPHONE CABLE



DETAIL A
RJ-11 6P-4C MODULAR PLUG

| PAIR ID | PIN # | FUNCTION |
|---------|-------|---|
| T1 | 4 | TRANSMIT AND RECEIVE PAIR FOR DIAL-UP CIRCUIT |
| R1 | 3 | |
| T2 | 2 | N/C |
| R2 | 5 | N/C |
| T3 | 6 | N/C |
| R3 | 1 | N/C |



DETAIL B
RJ-45 8P-8C MODULAR PLUG

| PAIR ID | PIN # | FUNCTION |
|---------|-------|---------------------------|
| T1 | 5 | TRANSMIT AND RECEIVE PAIR |
| R1 | 4 | |
| T2 | 3 | N/C |
| R2 | 6 | N/C |
| T3 | 1 | N/C |
| R3 | 2 | N/C |
| T4 | 7 | N/C |
| R4 | 8 | N/C |

TELEPHONE DEMARCATION CABINET, TYPE B WIRING DETAIL

SEE ES-3E

**ELECTRICAL DETAILS
(TDC WIRING)**

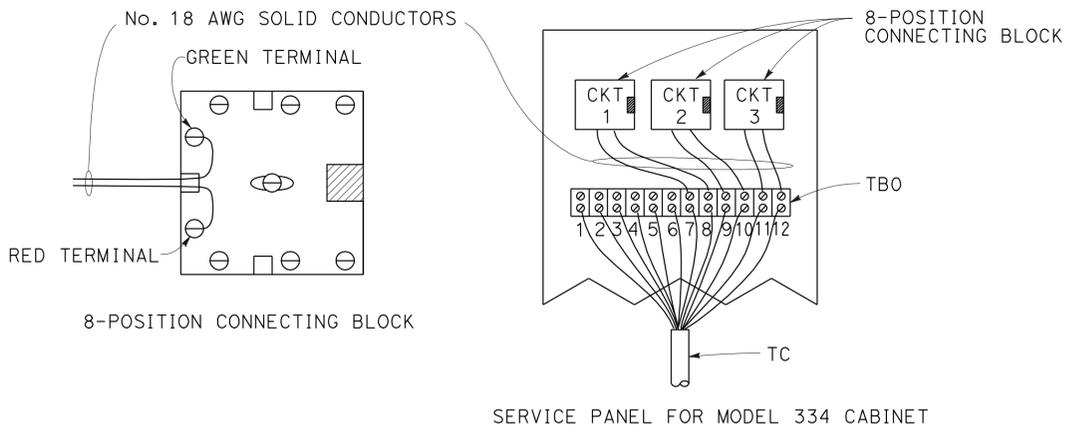
NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

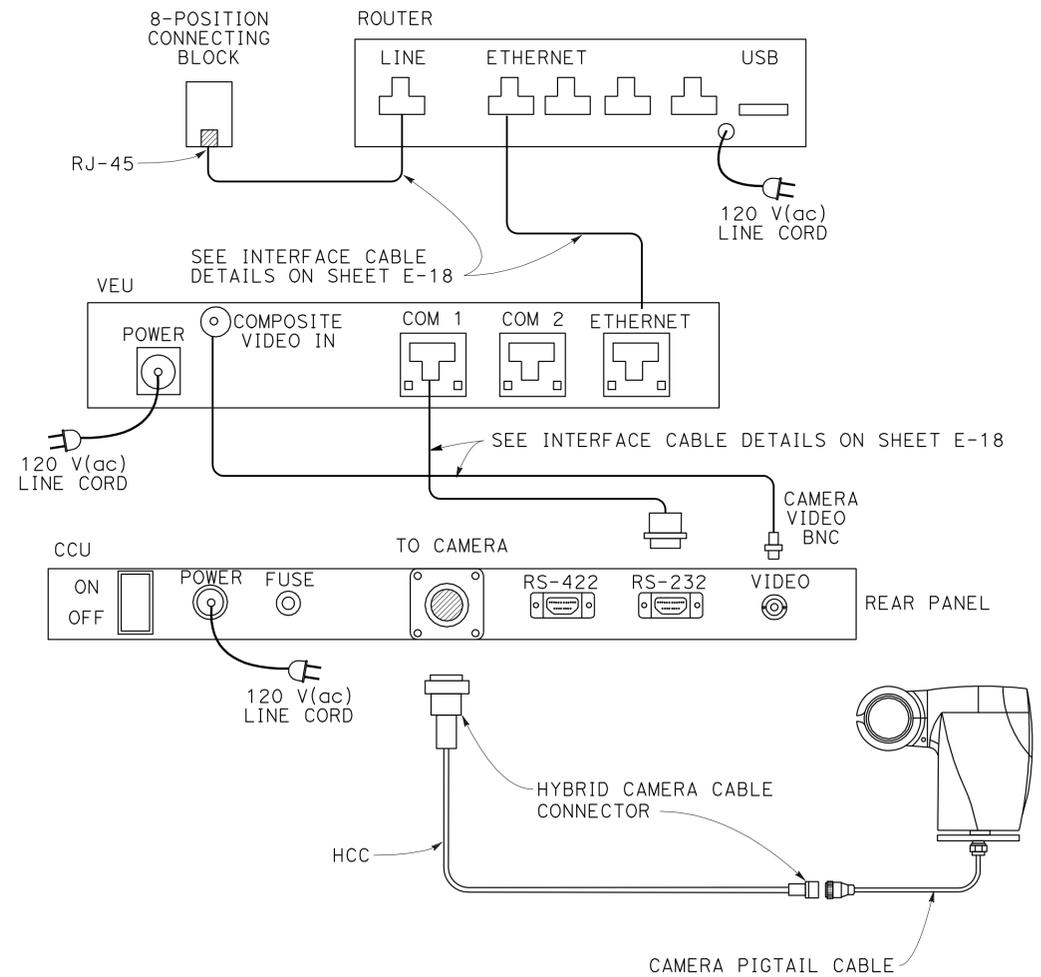
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

| 8-POSITION CONNECTING BLOCK | No. 18 AWG SOLID CONDUCTOR COLOR | TBO POSITION ASSIGNMENT |
|-----------------------------|----------------------------------|-------------------------|
| CIRCUIT 1 | GREEN TERMINAL | 7 |
| | RED TERMINAL | 8 |
| CIRCUIT 2 | GREEN TERMINAL | 9 |
| | RED TERMINAL | 10 |
| CIRCUIT 3 | GREEN TERMINAL | 11 |
| | RED TERMINAL | 12 |

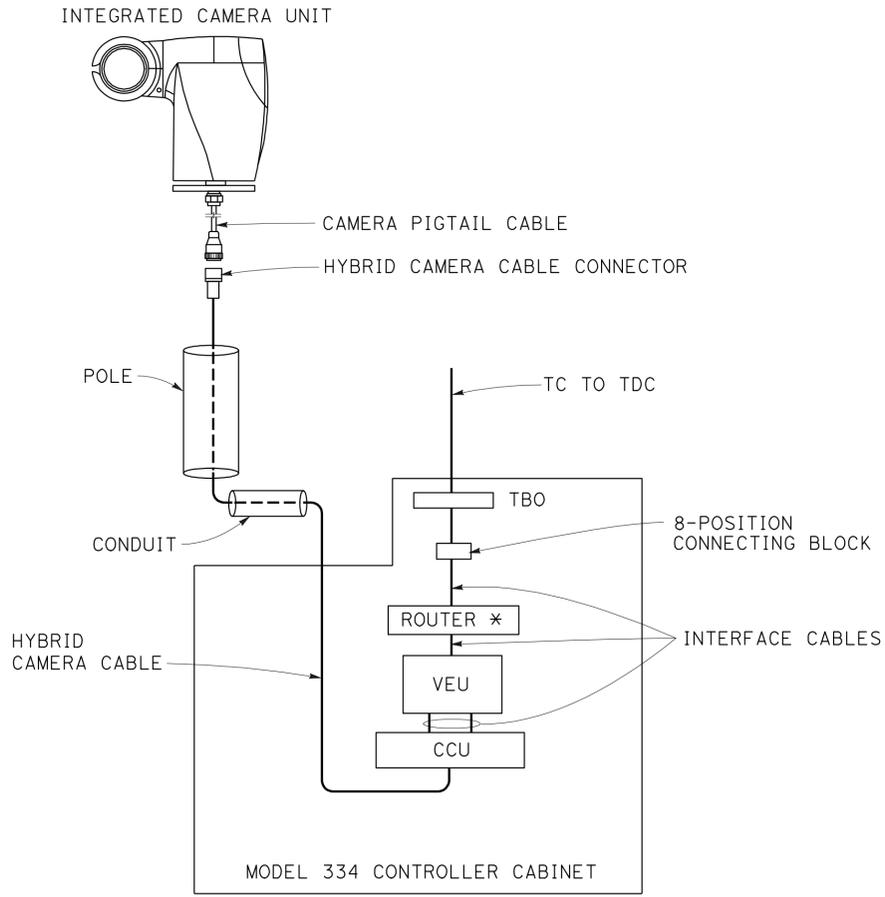
NOTE:
1. USE ONE CONNECTING BLOCK FOR EACH REQUIRED CIRCUIT FOR EACH LOCATION.



WIRING DETAIL FOR TELEPHONE CABLE INSIDE CONTROLLER CABINET

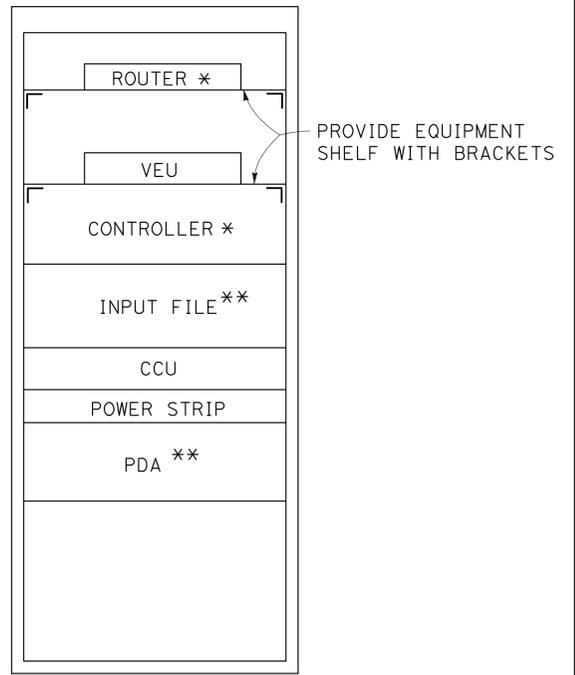


CCTV SYSTEM LAYOUT



CCTV SYSTEM BLOCK DIAGRAM

- TC - TELEPHONE CABLE
- HCC - HYBRID CAMERA CABLE
- TBO - TERMINAL BLOCK OUTPUT
- PDA - POWER DISTRIBUTION ASSEMBLY
- CCU - CAMERA CONTROL UNIT
- VEU - VIDEO ENCODER UNIT



MODEL 334 CONTROLLER CABINET LAYOUT (FRONT VIEW)

* STATE-FURNISHED
** PDA AND INPUT FILE WILL BE INCLUDED ONLY WITH STATE-FURNISHED CONTROLLER CABINET.

ELECTRICAL DETAILS (CCTV WITH TELEPHONE SERVICE)
NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1



USERNAME => trmikes1
DGN FILE => 415136u016.dgn

CU 04222

EA 151361

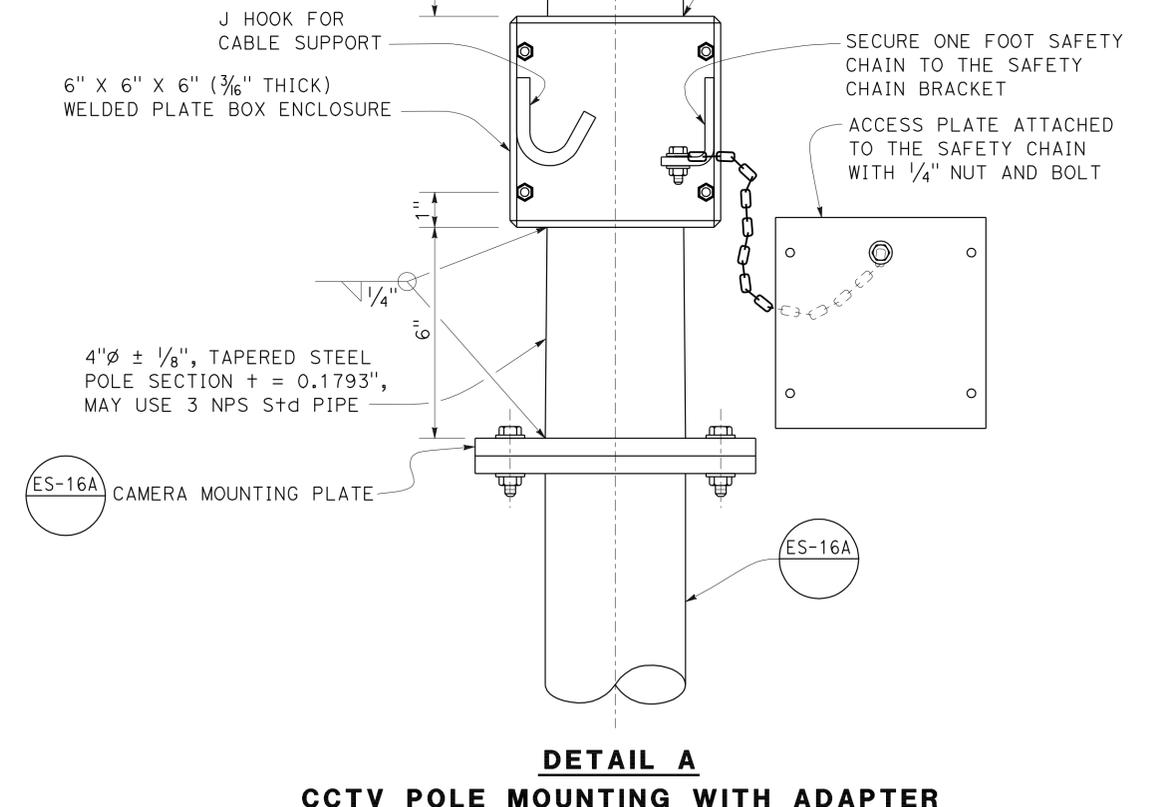
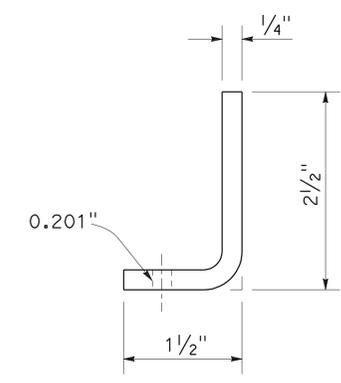
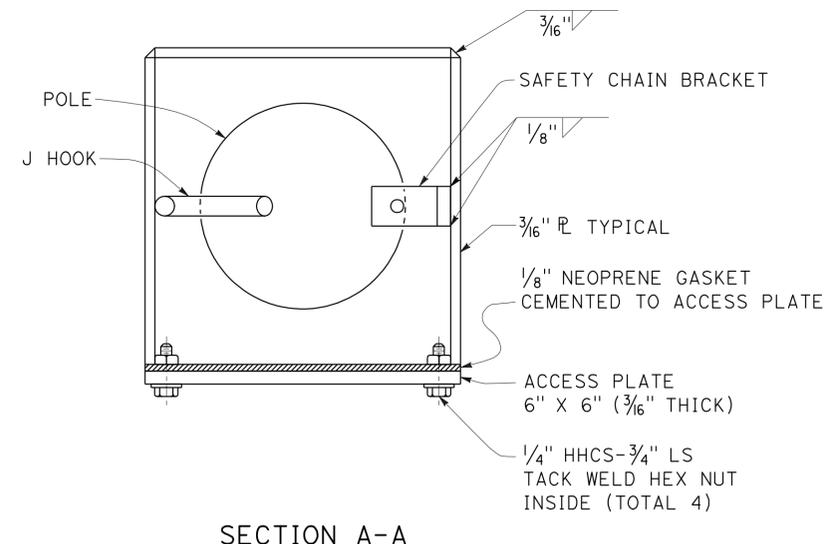
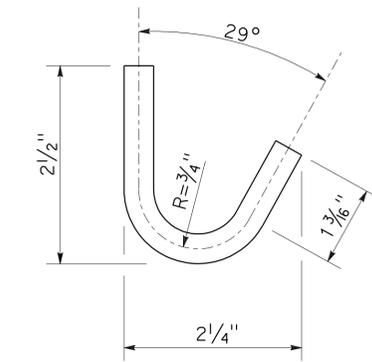
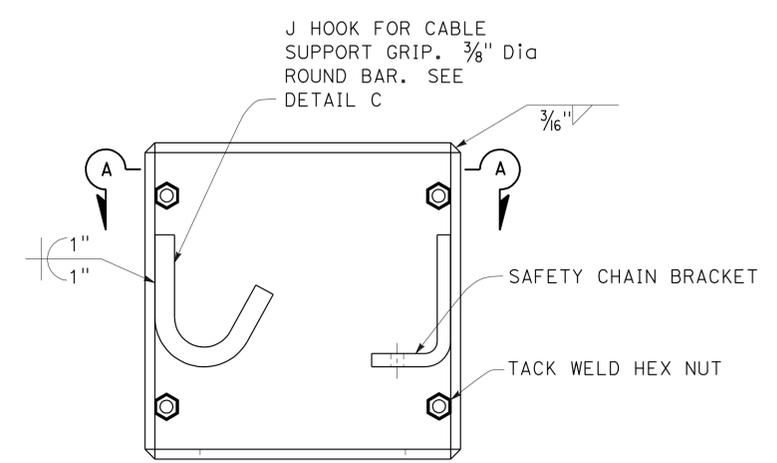
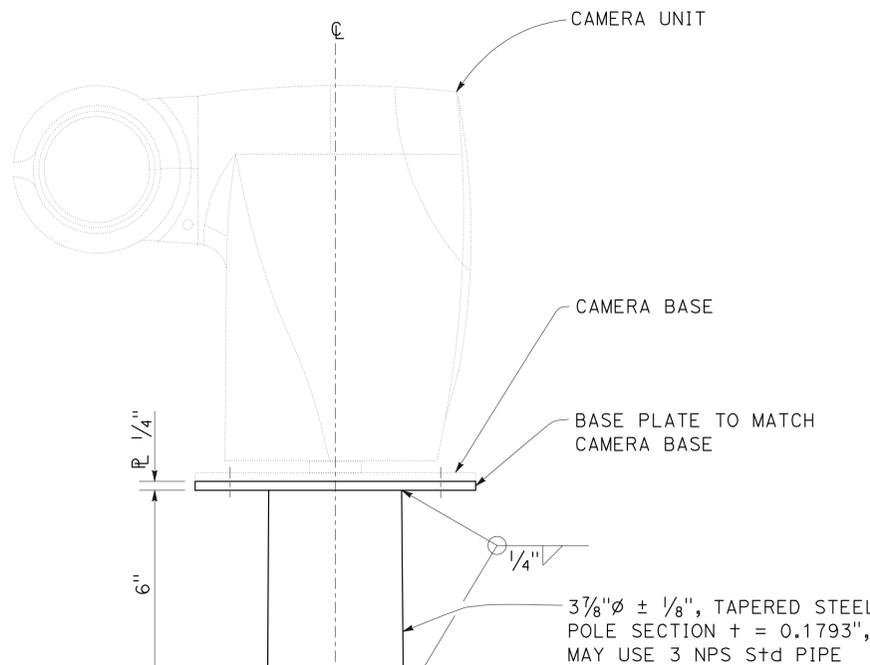
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 ELECTRICAL
 FUNCTIONAL SUPERVISOR: KENNETH XU
 CALCULATED/DESIGNED BY: HENRY HOANG
 CHECKED BY: DORIS YANG
 REVISED BY: HENRY HOANG
 DATE REVISED: DORIS YANG

LAST REVISION: 05-09-09
 DATE PLOTTED => 23-OCT-2009
 TIME PLOTTED => 10:52

| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 43 | 61 |

5-29-09
 REGISTERED CIVIL ENGINEER
 5-26-09
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 JEFFREY B. WOODY
 No. C41260
 Exp. 3/31/11
 CIVIL
 STATE OF CALIFORNIA



**DETAIL A
CCTV POLE MOUNTING WITH ADAPTER**

**DETAIL B
BOX ENCLOSURE**

**DETAIL C
J HOOK**

SECTION A-A

**DETAIL D
SAFETY CHAIN BRACKET**

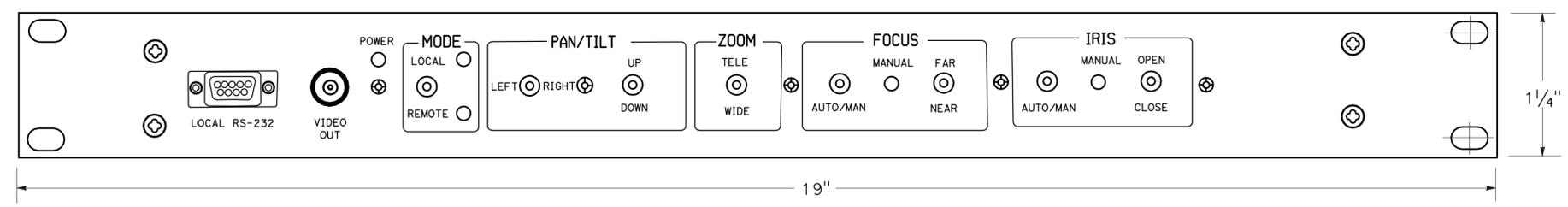
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL
 FUNCTIONAL SUPERVISOR: KENNETH XU
 CALCULATED/DESIGNED BY: JEFF WOODY
 CHECKED BY: DORIS YANG
 REVISED BY: JEFF WOODY
 DATE REVIS: DORIS YANG

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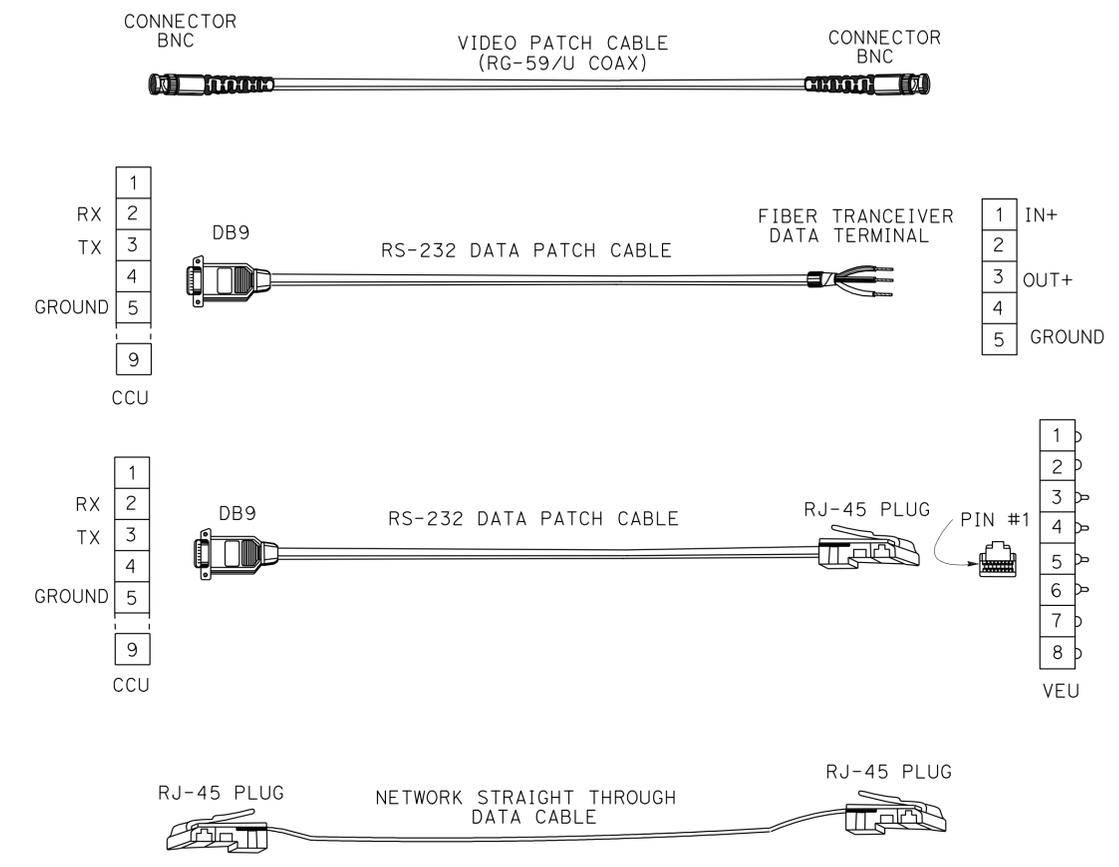
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

**ELECTRICAL DETAILS
(CAMERA MOUNTING DETAILS)**
NO SCALE

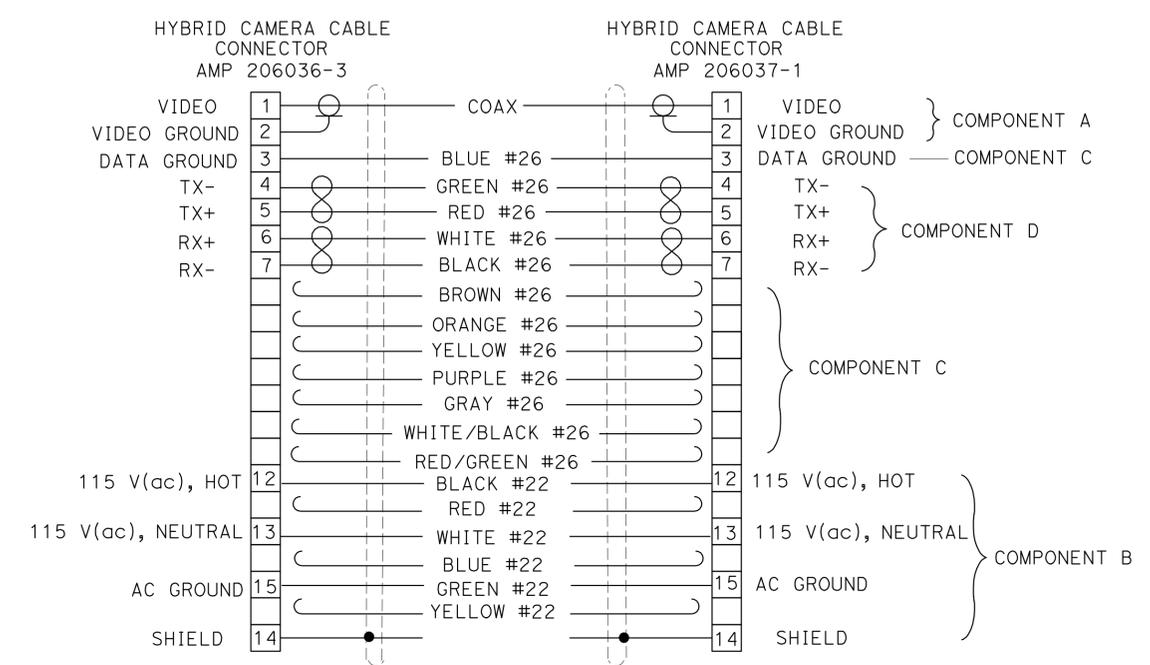
E-17



CCU FRONT PANEL LAYOUT

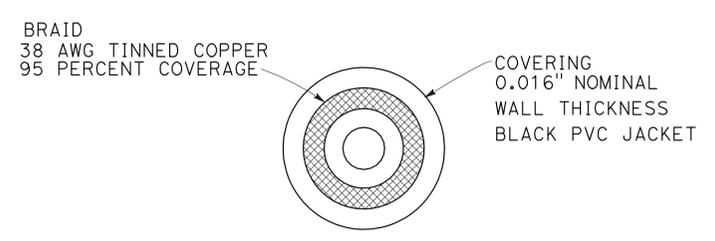


INTERFACE CABLE DETAILS

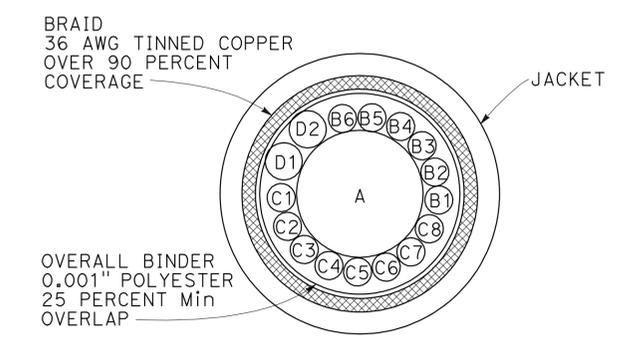


| COMPONENT | CONDUCTOR | DESCRIPTION |
|-----------|-------------|---|
| A | COAX | 75 OHM, RG-59/U TYPE, STANDARD ANALOG VIDEO CABLE, 0.242" NOMINAL DIAMETER |
| B | 6 CONDUCTOR | 22 AWG, COPPER INSULATED CONDUCTOR, 0.048" NOMINAL DIAMETER, COLOR CODED: B1-BLACK, B2-RED, B3-GREEN, B4-WHITE, B5-BLUE, B6-YELLOW |
| C | 8 CONDUCTOR | 26 AWG, COPPER INSULATED CONDUCTOR, 0.037" NOMINAL DIAMETER, COLOR CODED: C1-BROWN, C2-BLUE, C3-ORANGE, C4-YELLOW, C5-PURPLE, C6-GRAY, C7-WHITE/BLACK, C8-RED/GREEN |
| D | 4 CONDUCTOR | 26 AWG, COPPER INSULATED CONDUCTOR, 0.037" NOMINAL DIAMETER, COLOR CODED: D1-BLACK & WHITE, D2-RED & GREEN |

HYBRID CAMERA CABLE AND CONNECTORS DETAIL



COMPONENT A



HYBRID CAMERA CABLE CROSS SECTION

**ELECTRICAL DETAILS
(CCTV MOUNTING DETAILS)**
NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL
 Kenneth Xu
 Functional Supervisor
 Henry Hoang
 Doris Yang
 Revised By
 Date Revised
 Calculated/Designed By
 Checked By
 05-09-09
 DATE PLOTTED => 23-06T-2009
 TIME PLOTTED => 10:53

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

FUNCTIONAL SUPERVISOR
 KENNETH XU

CALCULATED-DESIGNED BY
 CHECKED BY

HENRY HOANG
 DORIS YANG

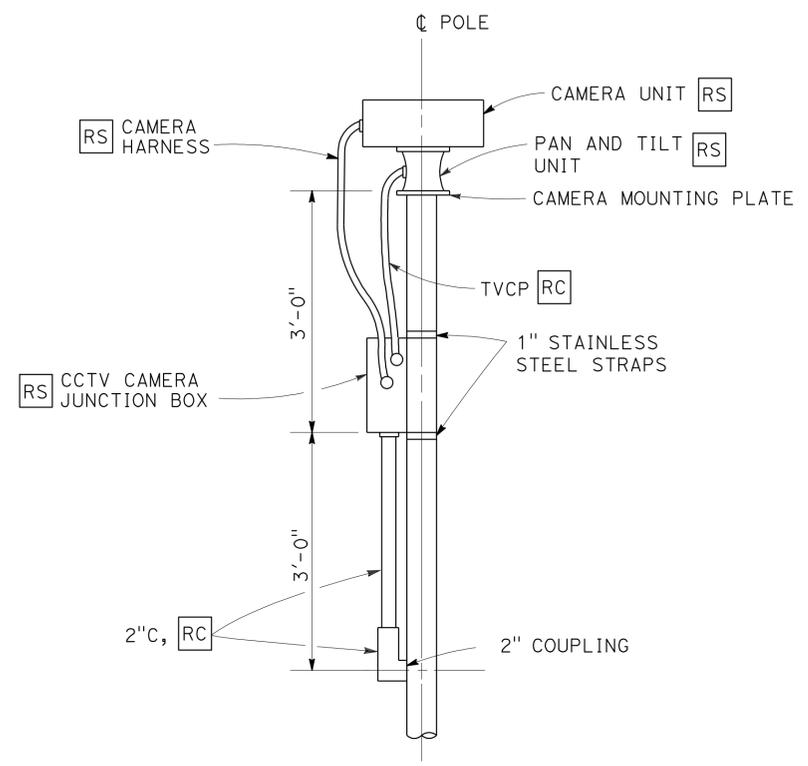
REVISED BY
 DATE REVISED

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 45 | 61 |

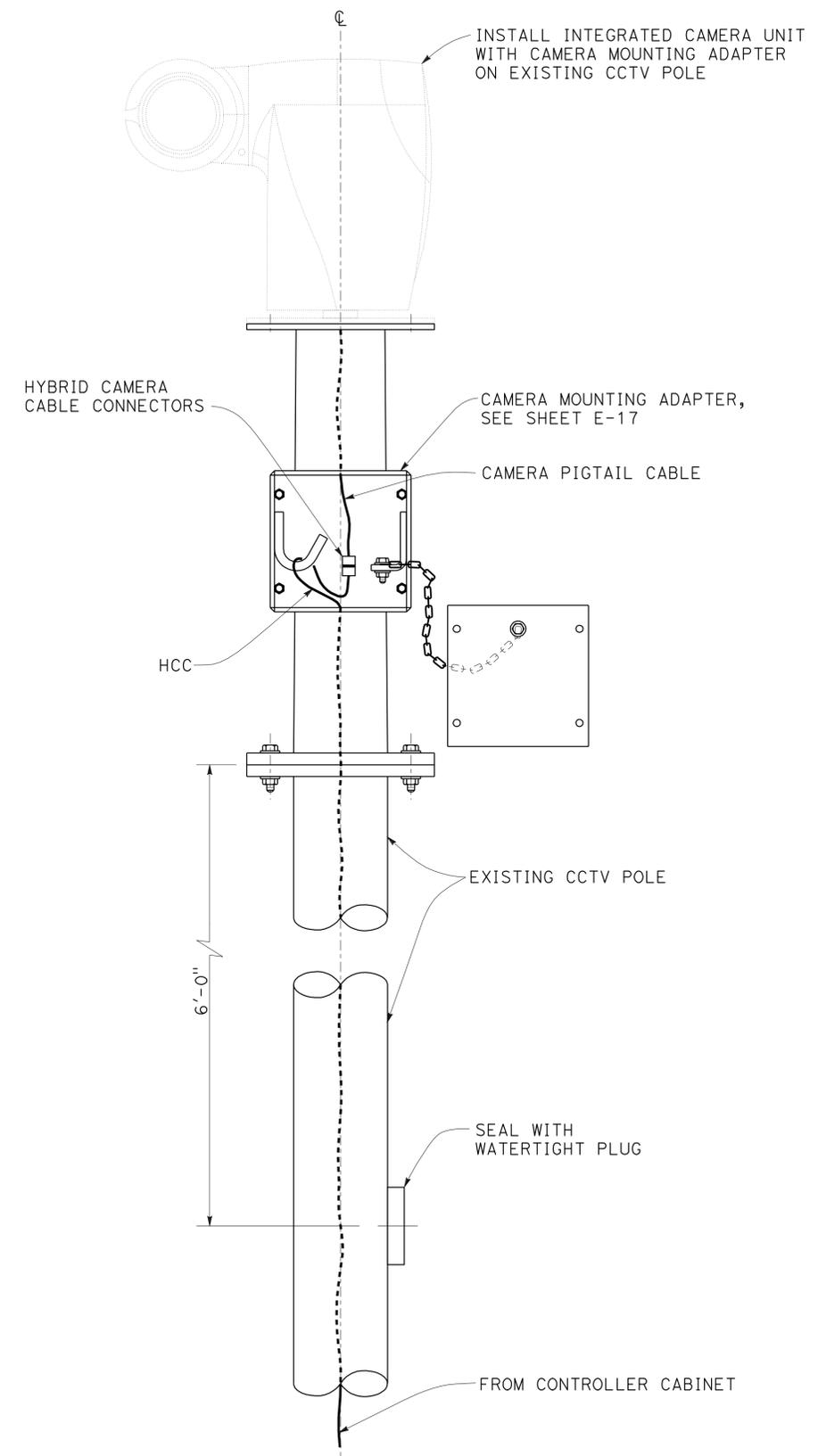
Jeffrey B. Woody 5-29-09
 REGISTERED CIVIL ENGINEER DATE
 5-26-09
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 JEFFREY B. WOODY
 No. C41260
 Exp. 3/31/11
 CIVIL
 STATE OF CALIFORNIA

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Exist EQUIPMENT REMOVAL DETAIL



EQUIPMENT INSTALLATION DETAIL

**ELECTRICAL DETAILS
 (CCTV REPLACEMENT DETAILS)**

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 46 | 61 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

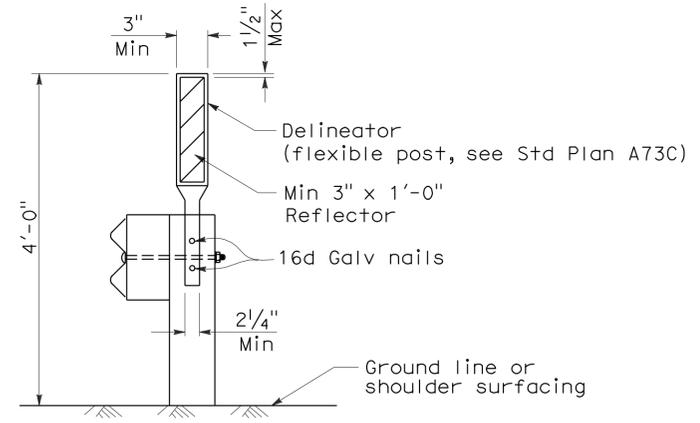
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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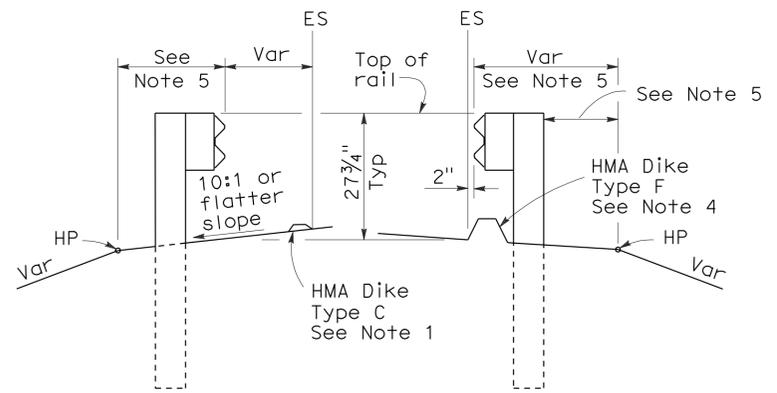
To accompany plans dated 5-26-09

NOTES:

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and Standard Plan A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.



GUARD RAILING DELINEATION
See Note 3



DIKE POSITIONING
See Note 1

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL RAILING DELINEATION
AND DIKE POSITIONING DETAILS**

NO SCALE

RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C4

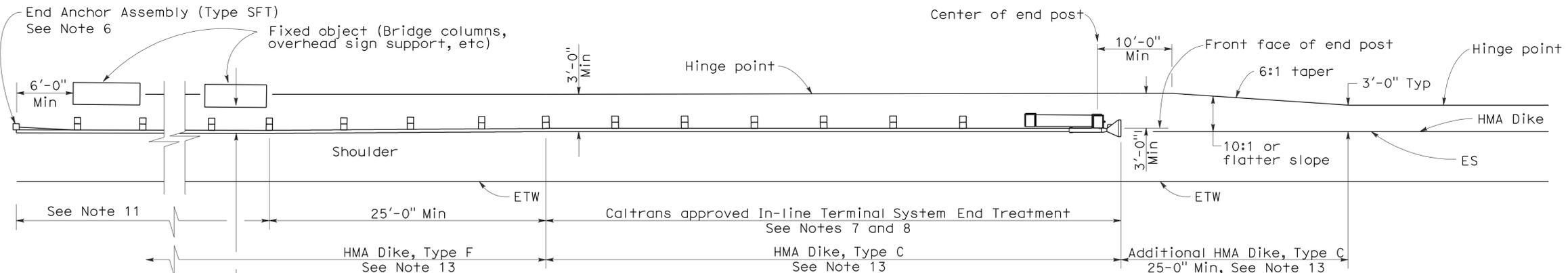
2006 REVISED STANDARD PLAN RSP A77C4

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 47 | 61 |

RANDALL D. HIATT
 REGISTERED CIVIL ENGINEER
 No. C50200
 Exp. 6-30-09
 CIVIL
 STATE OF CALIFORNIA

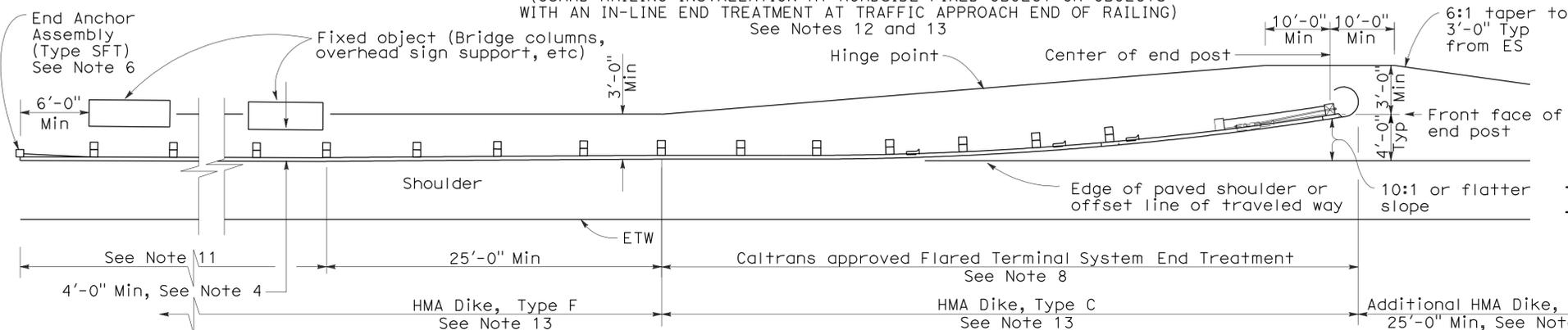
June 6, 2008
 PLANS APPROVAL DATE

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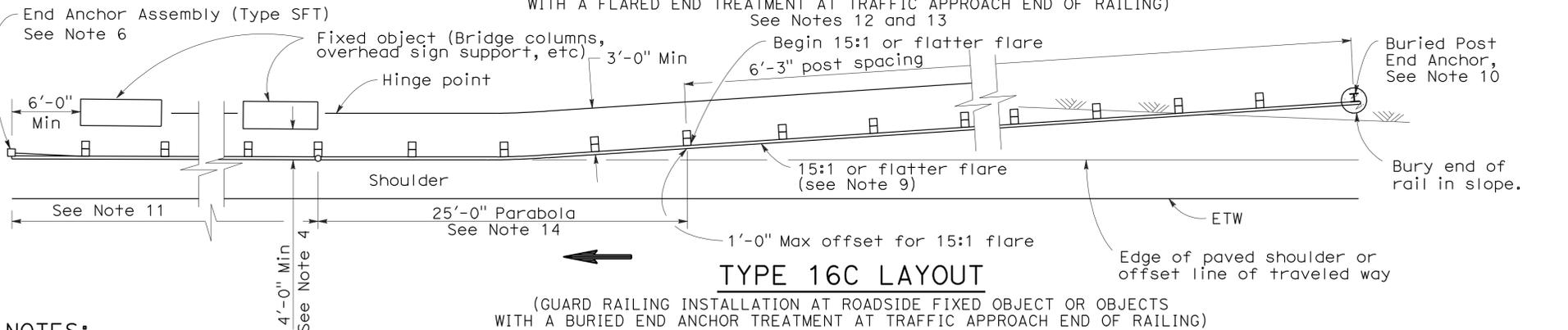
TYPE 16A LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 7 and 8



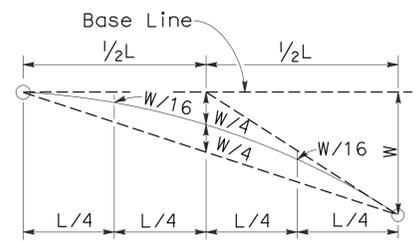
TYPE 16B LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13

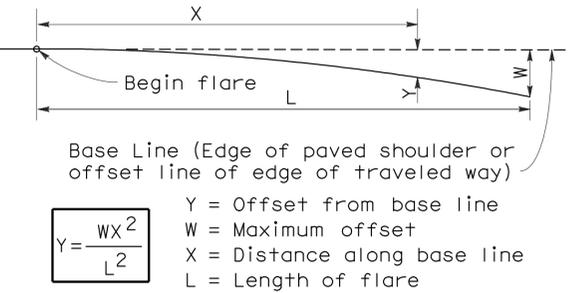


TYPE 16C LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A BURIED END ANCHOR TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13



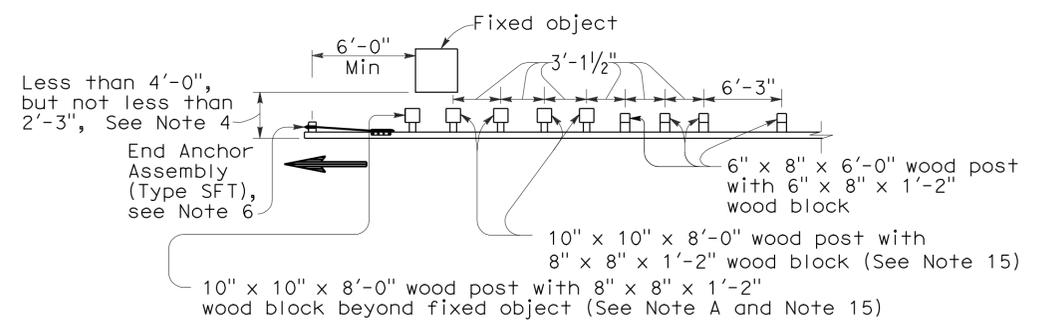
TYPICAL PARABOLIC LAYOUT



PARABOLIC FLARE OFFSETS

NOTES:

- Line post, blocks and hardware to be used are shown on Revised Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood line posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- A 4'-0" minimum clearance is required between the face of the railing and the face of a fixed object located directly behind standard guard railing sections with post spacing of 6'-3". Construct guard railing as shown in the detail "Strengthened Railing Sections for Fixed Objects" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 4'-0", but not less than 2'-3". Where the clearance is less than 2'-3", a concrete wall or barrier should be constructed to shield the fixed object(s).
- Direction of adjacent traffic indicated by \rightarrow .
- For End Anchor Assembly (Type SFT) details, see Standard Plan A77H1.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system to be used will be shown on the Project Plans.
- The 15:1 or flatter flare used with Type 16C Layout is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
- For details of the Buried Post End Anchor used with Type 16C Layout, see Standard Plan A77I2.
- As site conditions dictate, construct additional guard railing to shield fixed object(s). Additional guard railing length equal to multiples of 12'-6". Post spacing at 6'-3" except as specified in Note 4.
- Layout Types 16A, 16B or 16C are typically used where guard railing is recommended to shield roadside fixed object(s) and a crashworthy end treatment is required for only one direction of traffic.
- Where placement of dike is required with guard railing, see Revised Standard Plan RSP A77C4 for dike positioning details.
- For typical flare offsets for 25'-0" length parabola with maximum offset of 1'-0", see Revised Standard Plan RSP A77E1.
- W6 x 15 steel post, 8'-0" in length, with 8" x 8" x 1'-2" notched wood block or notched recycled plastic blocks may be used in place of the 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood block shown in the "Strengthened Railing Sections Detail".



NOTE A:

For a series of fixed objects (bridge columns, overhead sign supports, etc.) additional 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood blocks at 3'-1/2" center to center spacing are to be used between fixed objects.

STRENGTHENED RAILING SECTIONS FOR FIXED OBJECT

Use strengthened railing sections with Types 16A, 16B or 16C Layouts where minimum clearance between the face of the guard railing and fixed object(s) is less than 4'-0", but not less than 2'-3". See Note 4

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE
RSP A77G3 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77G3
DATED MAY 1, 2006 - PAGE 61 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77G3

2006 REVISED STANDARD PLAN RSP A77G3

| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 48 | 61 |

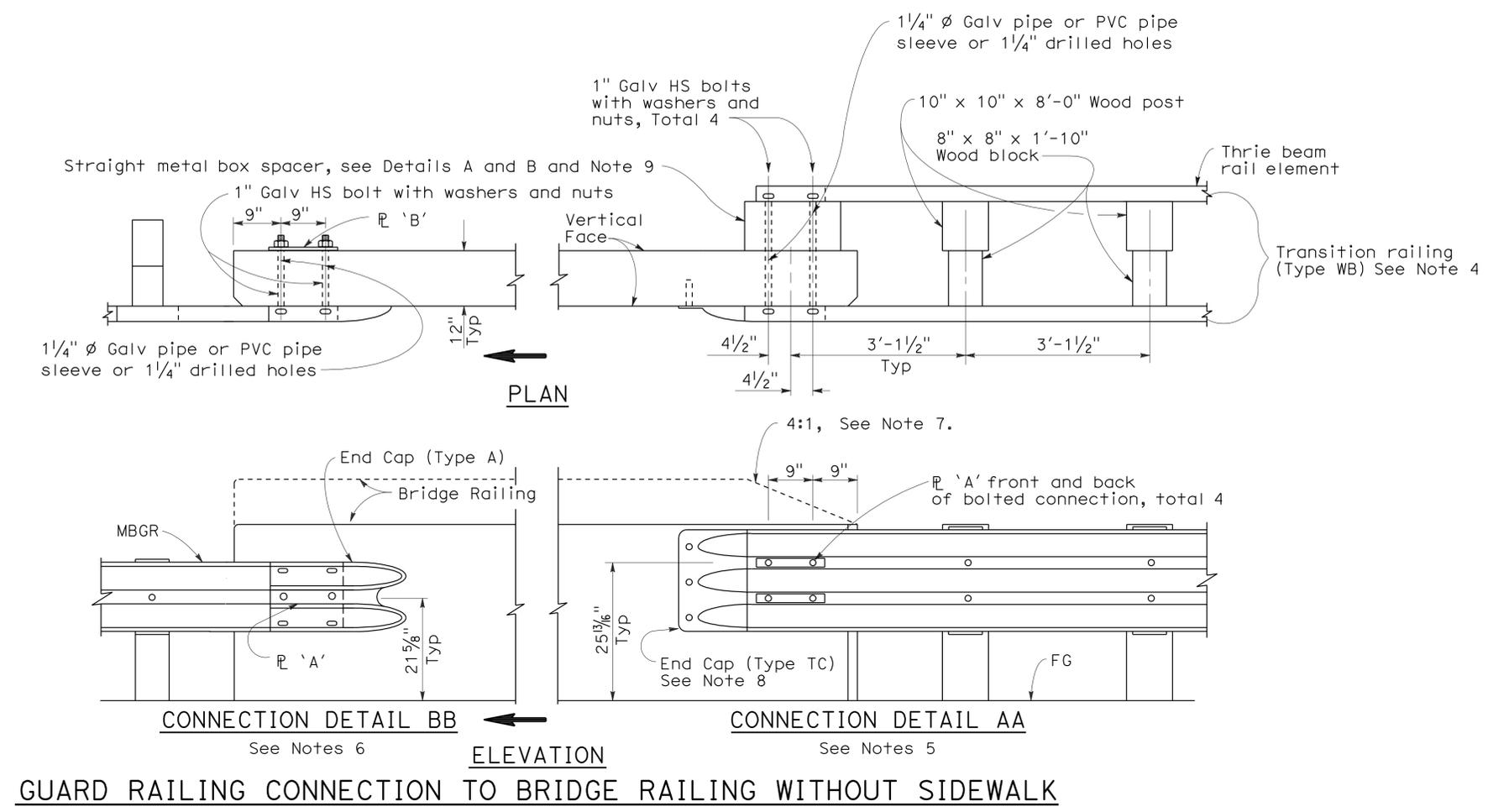
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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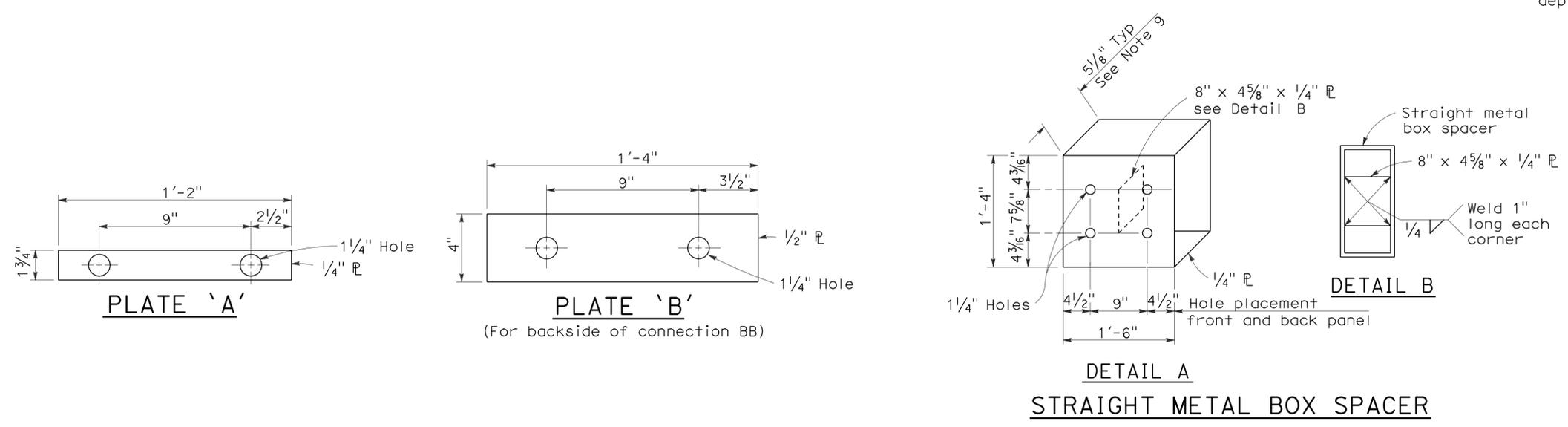
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 5-26-09



NOTES:

1. See Revised Standard Plan RSP A77J2 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Standard Plan A77B1, A77C1 and A77C2.
3. Direction of adjacent traffic indicated by \rightarrow .
4. For additional details of Transition Railing (Type WB), see Standard Plan A77J4. Transition Railing (Type WB) transitions the 12 gage w-beam standard railing section of guard railing to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
5. For typical use of Connection Detail AA, see Layout Types 12A and 12B on Revised Standard Plan RSP A77F1, Layout Types 12C and 12D on Standard Plan A77F2, and Layout Type 12E on Revised Standard Plan RSP A77F3.
6. For typical use of Connection Detail BB, see Layout Type 12D (structure departure railing connection) on Standard Plan A77F2 and Layout Type 12DD on Standard Plan A77F5.
7. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail AA, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam rail.
8. For details of End Cap (Type TC), see Standard Plan A77J4.
9. See Standard Plan A77J4 for additional details regarding depth dimension for straight metal box spacer.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
CONNECTIONS TO
BRIDGE RAILINGS
WITHOUT SIDEWALKS
DETAILS No.1**

NO SCALE

RSP A77J1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77J1
DATED MAY 1, 2006 - PAGE 72 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A77J1

| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 49 | 61 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

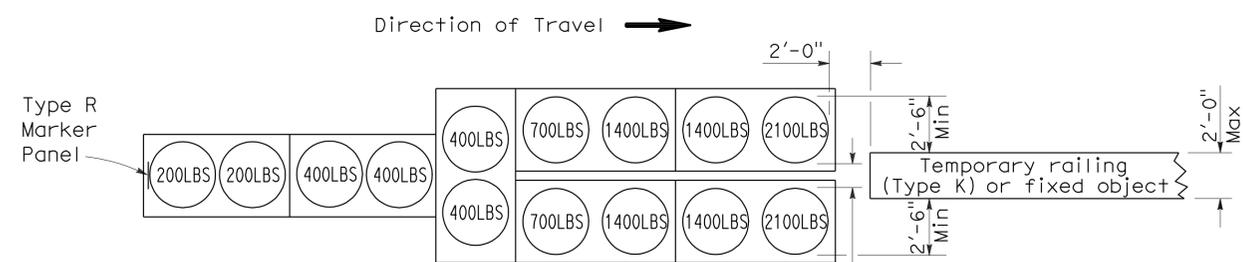
June 6, 2008
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

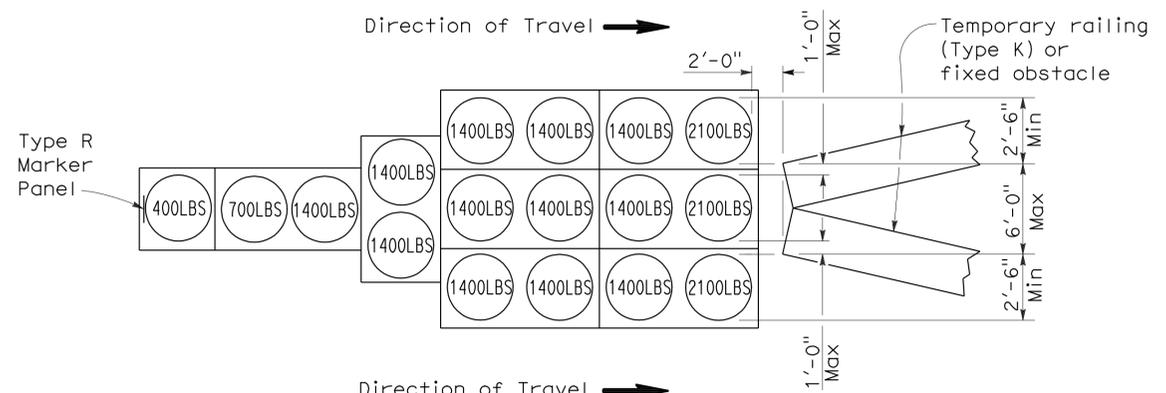
To accompany plans dated 5-26-09

2006 REVISED STANDARD PLAN RSP T1A



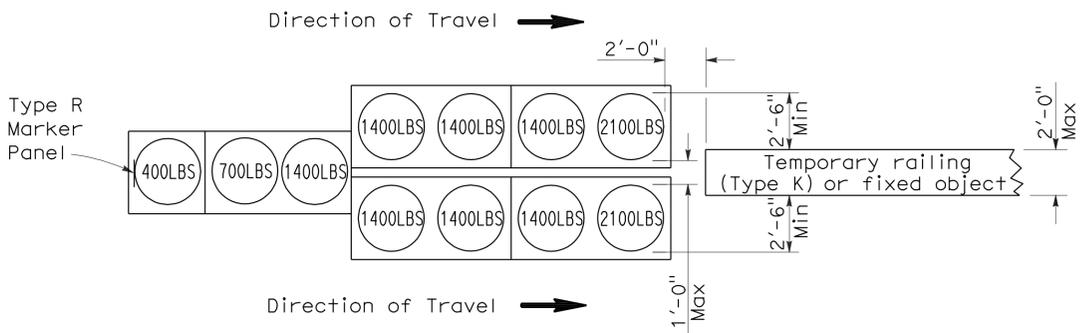
ARRAY 'TU14'

Approach speed 45 mph or more



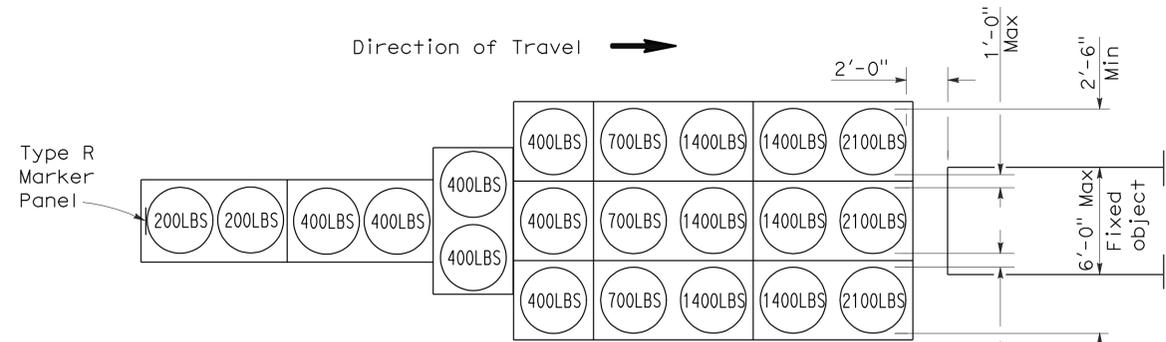
ARRAY 'TU17'

Approach speed less than 45 mph



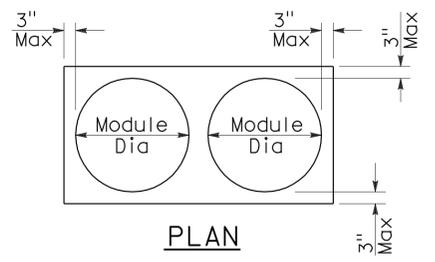
ARRAY 'TU11'

Approach speed less than 45 mph

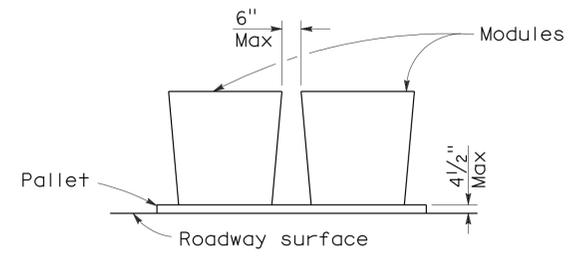


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 50 | 61 |

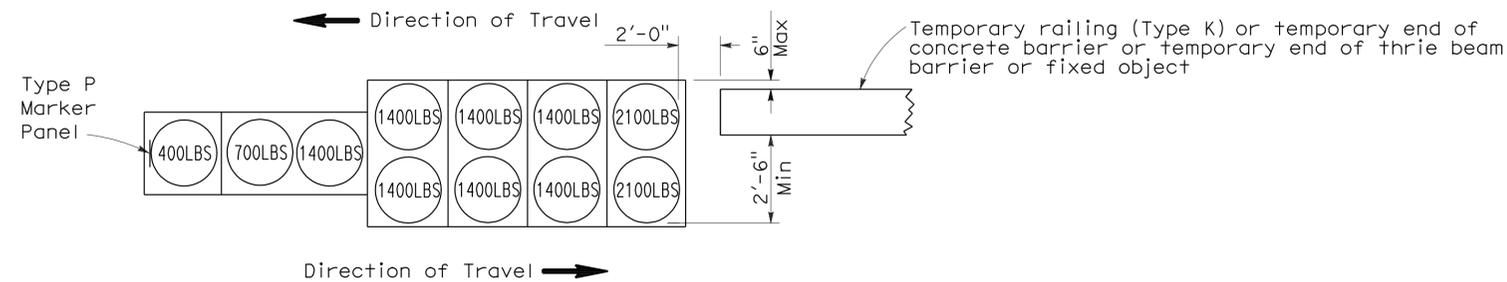
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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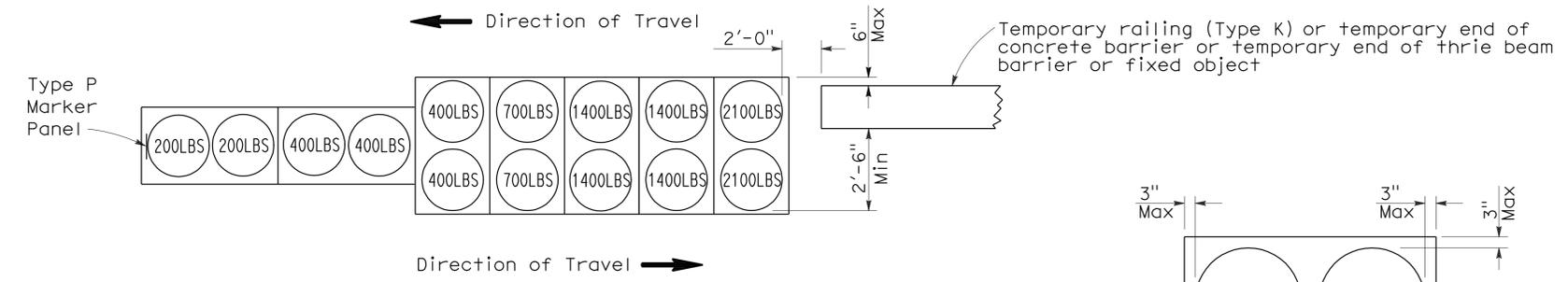
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 5-26-09



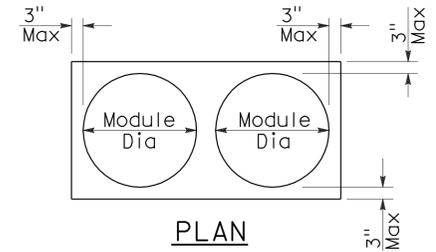
ARRAY 'TB11'

Approach speed less than 45 mph

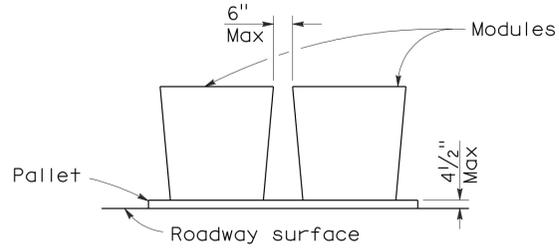


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 51 | 61 |

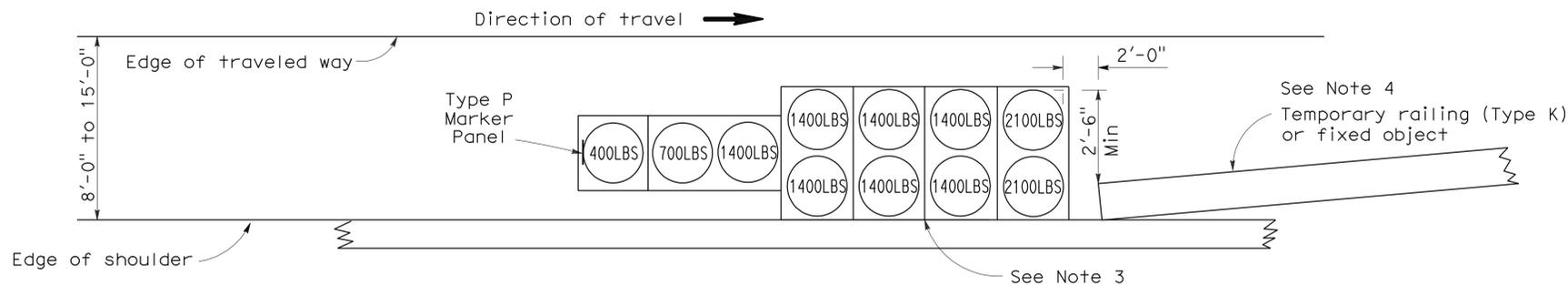
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

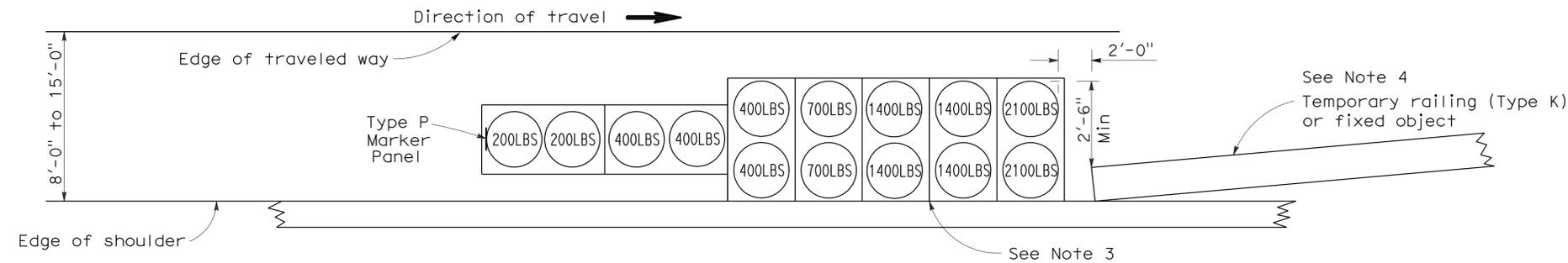
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 5-26-09



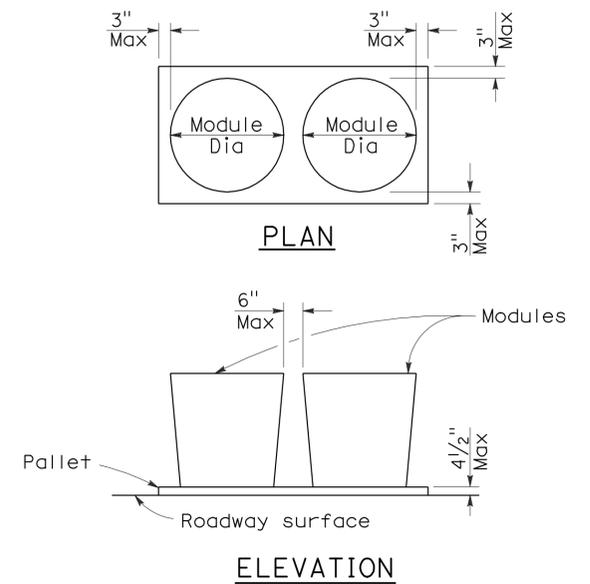
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

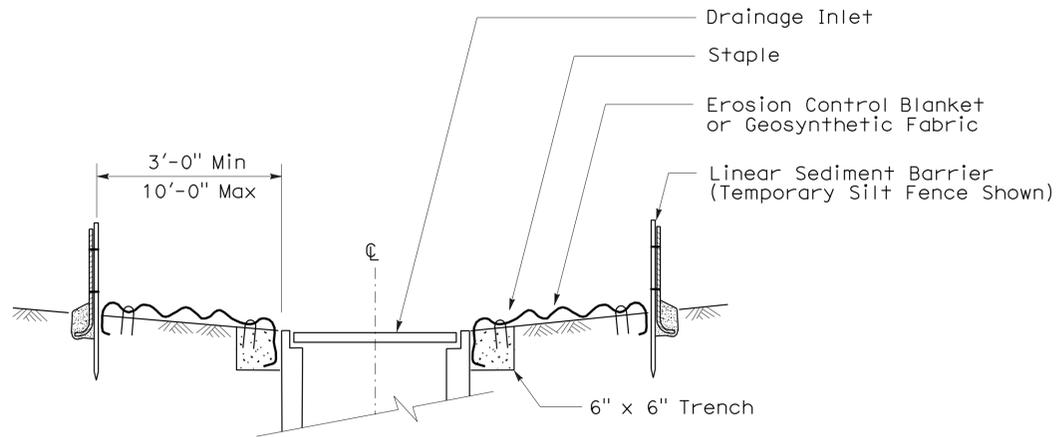
2006 REVISED STANDARD PLAN RSP T2

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 52 | 61 |

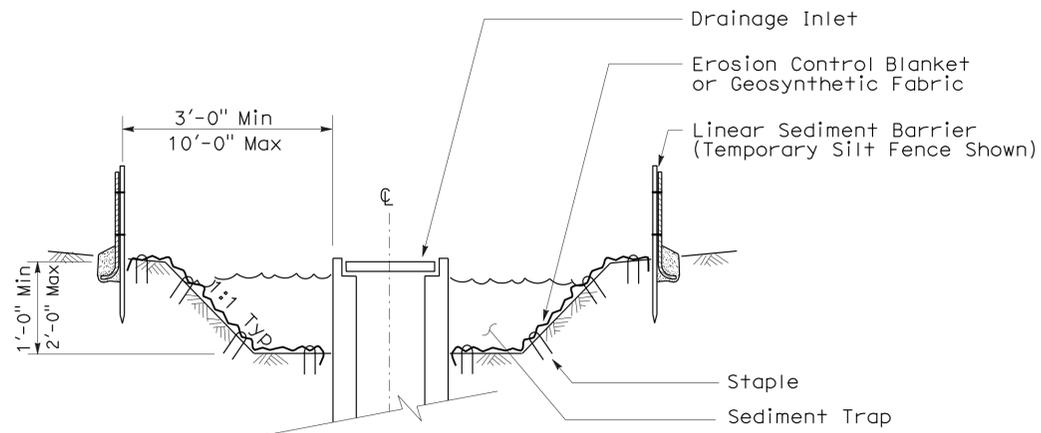
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE

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To accompany plans dated 5-26-09



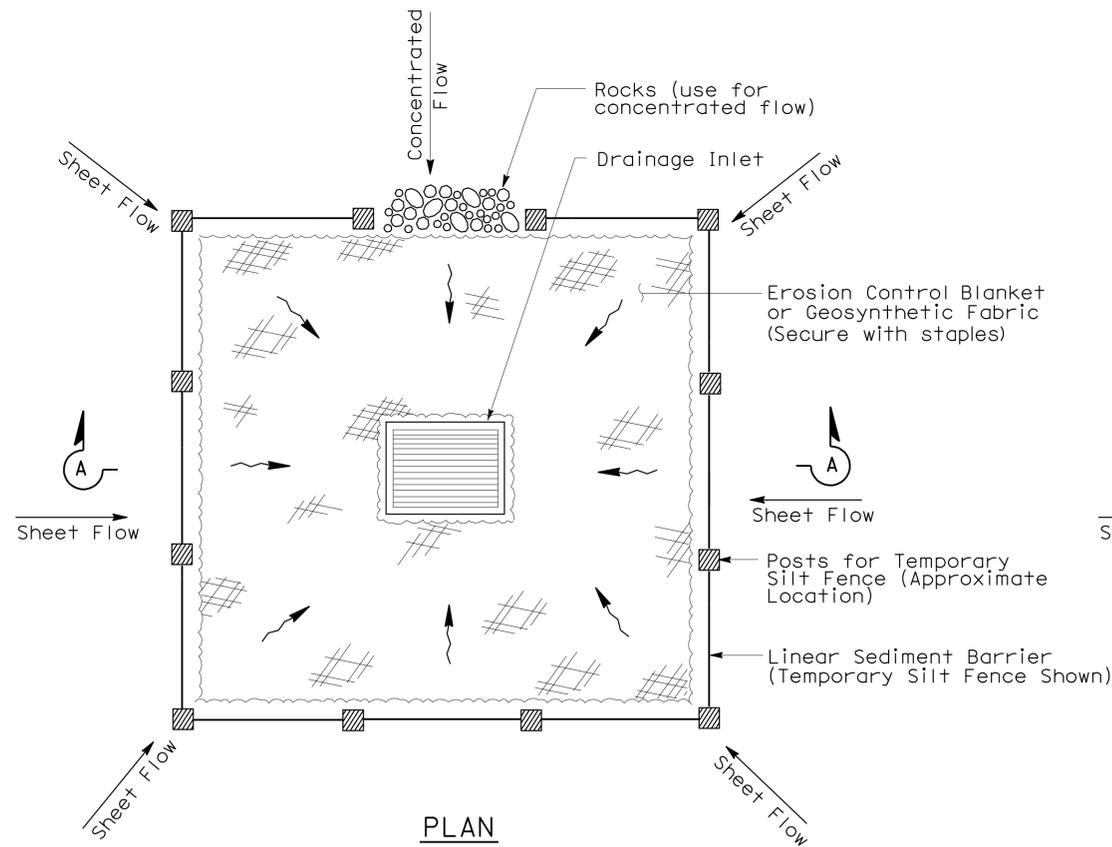
SECTION A-A



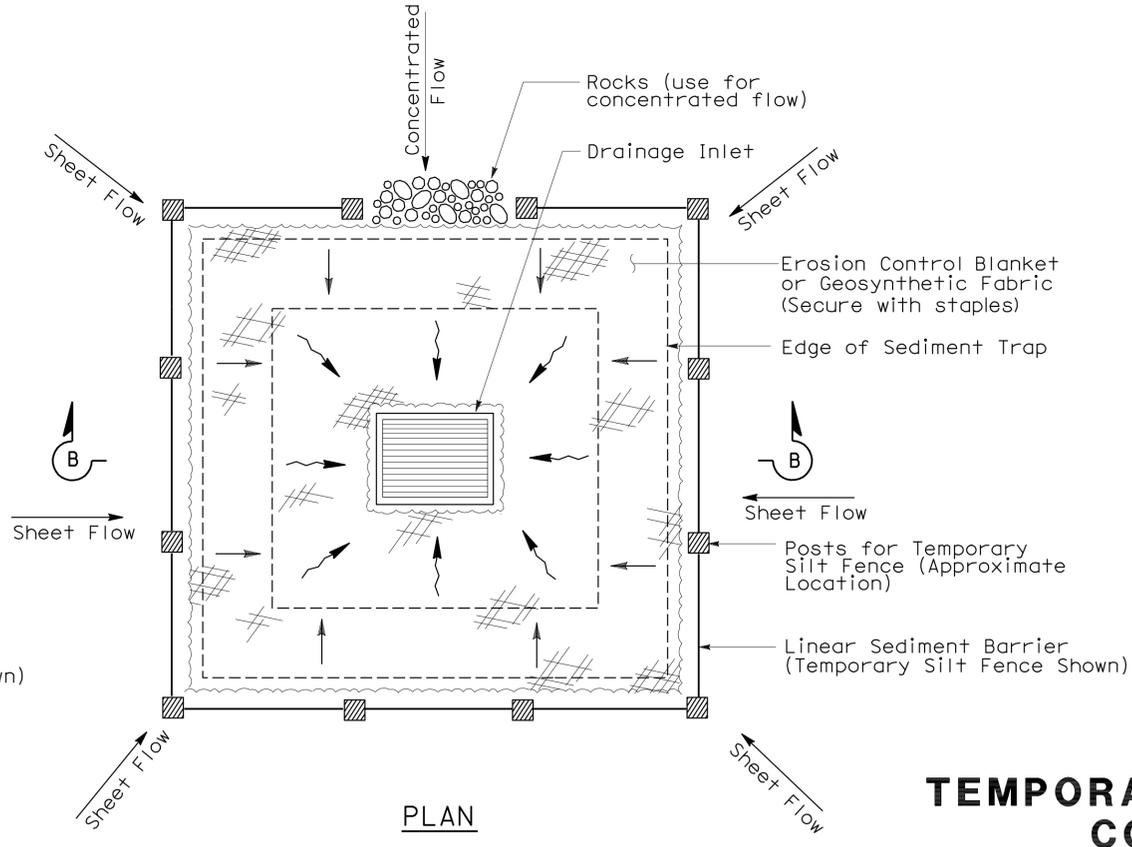
SECTION B-B

NOTES:

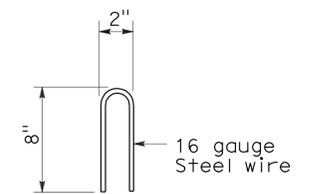
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

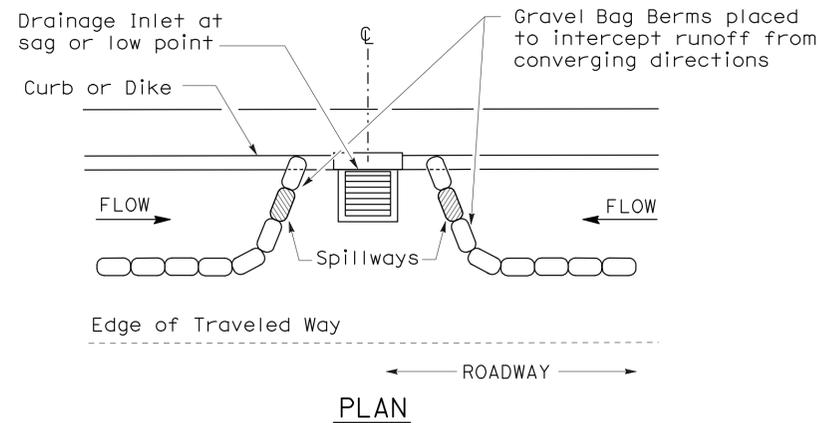


To accompany plans dated 5-26-09

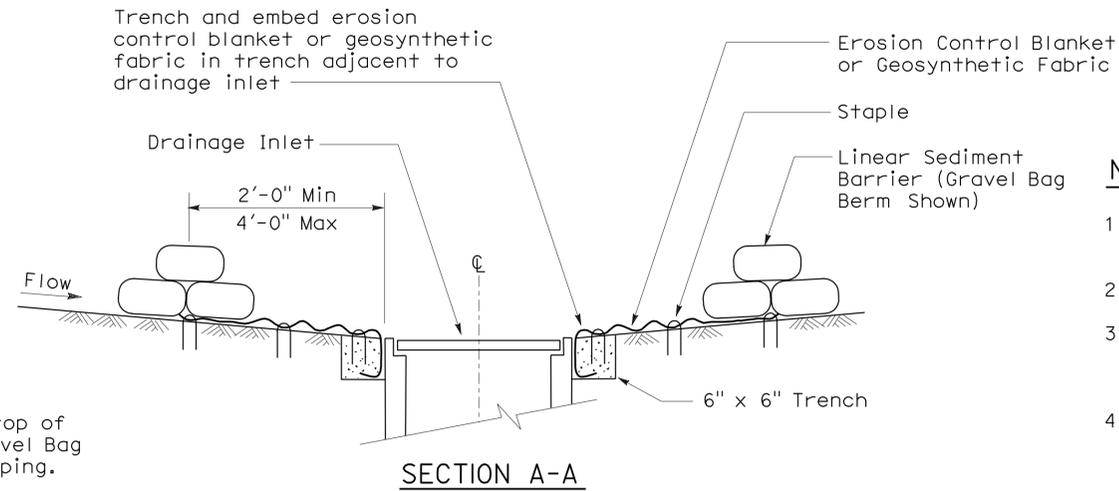
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

| | | | | | |
|----------------------------|----------|----------|----------|---------|-----|
| SLOPE OF ROADWAY (PERCENT) | 1 to 3.9 | 4 to 5.9 | 6 to 7.9 | 8 to 10 | 10+ |
| INTERVAL BETWEEN BERM | 100' | 75' | 50' | 25' | 12' |

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



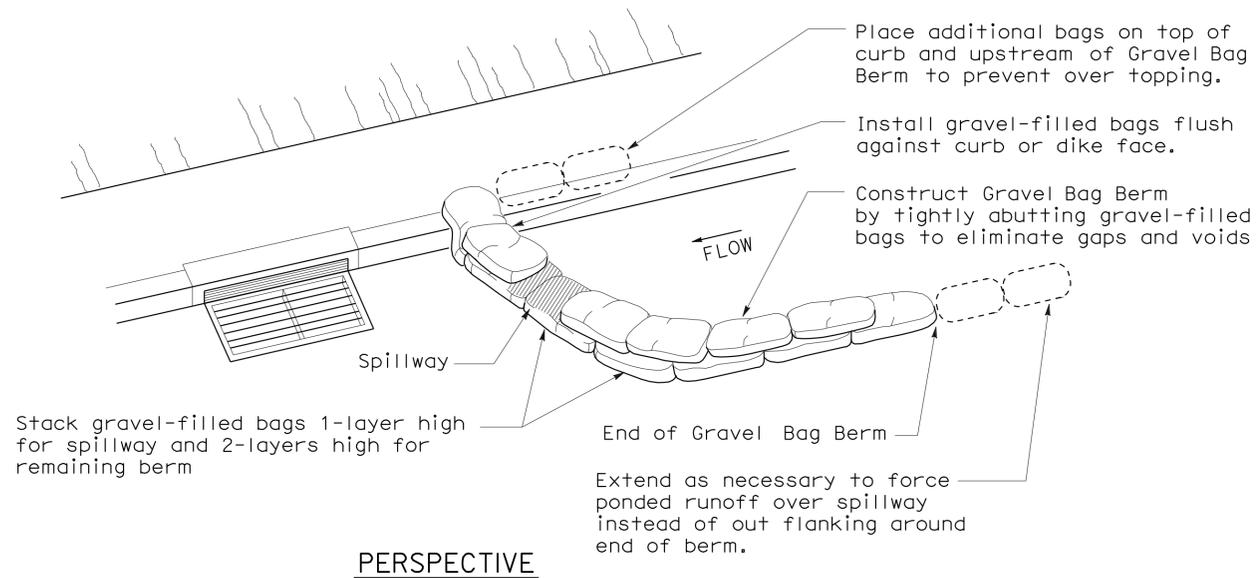
PLAN
CONFIGURATION FOR SAG POINT INLET
(GRAVEL BAG BERM)



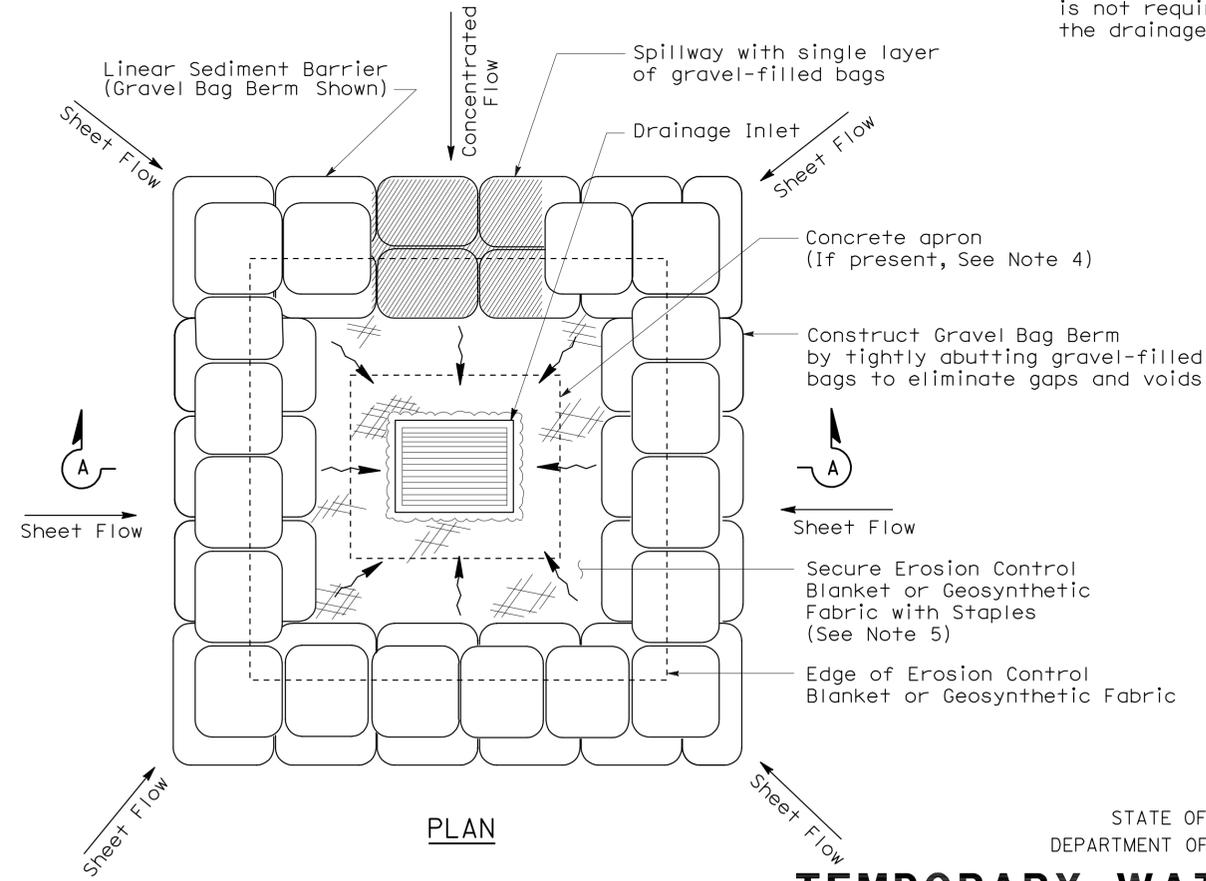
SECTION A-A

NOTES:

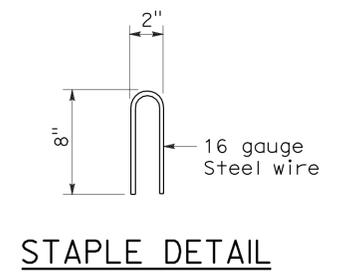
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



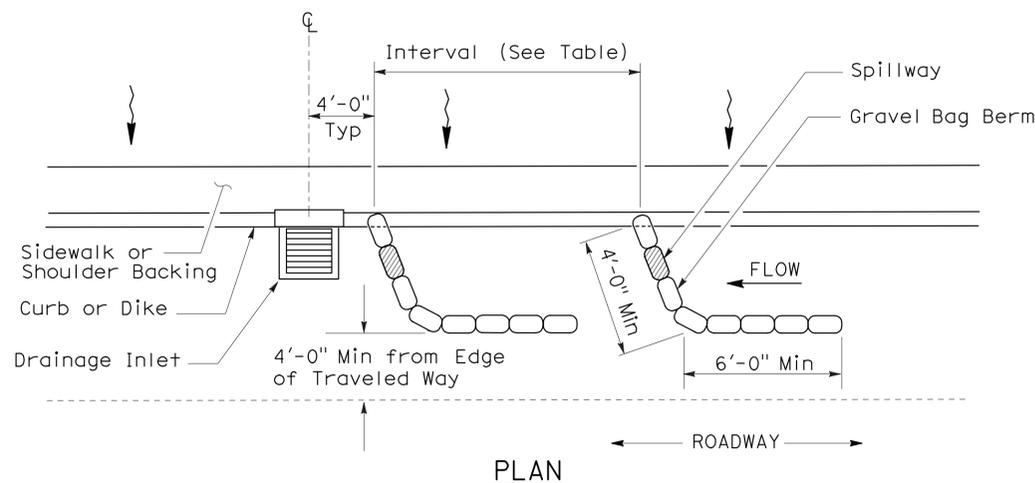
PERSPECTIVE



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



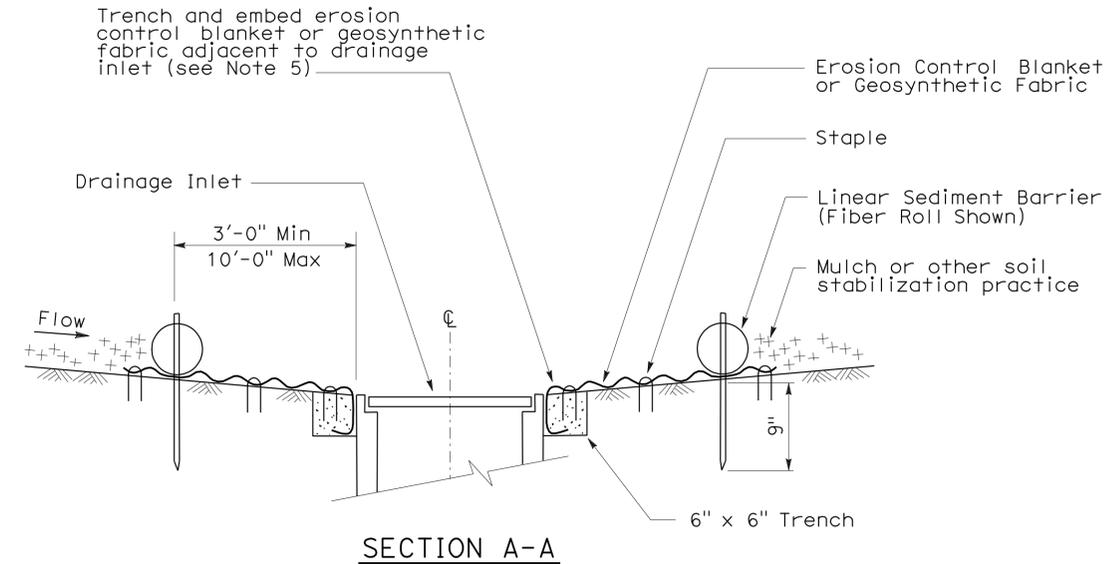
PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 3A)
(GRAVEL BAG BERM)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY DRAINAGE INLET PROTECTION)

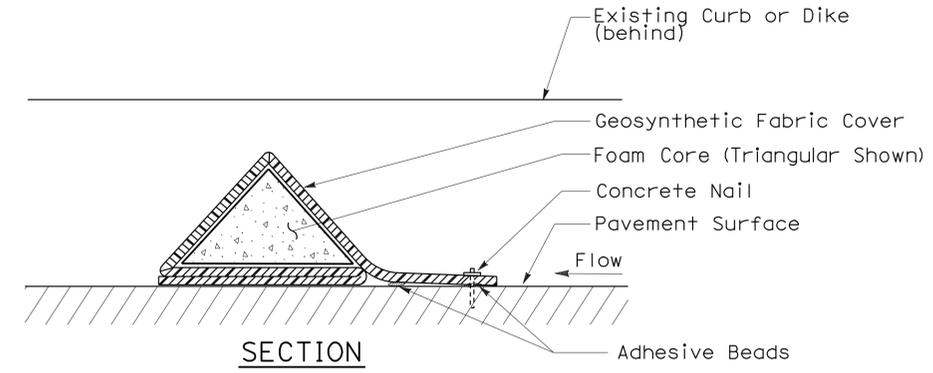
NO SCALE
 NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

| SLOPE OF ROADWAY (PERCENT) | 0 to 0.9 | 1 to 1.9 | 2 to 2.9 | 3 to 4 | 5+ |
|----------------------------|----------|----------|----------|--------|-----|
| INTERVAL BETWEEN BARRIERS | 50' | 35' | 30' | 25' | 20' |
| ANGLE FROM FACE OF CURB | 70° | 70° | 70° | 45° | 45° |
| SUGGESTED BARRIER LENGTH | 6' | 6' | 6' | 6' | 6' |



SECTION A-A

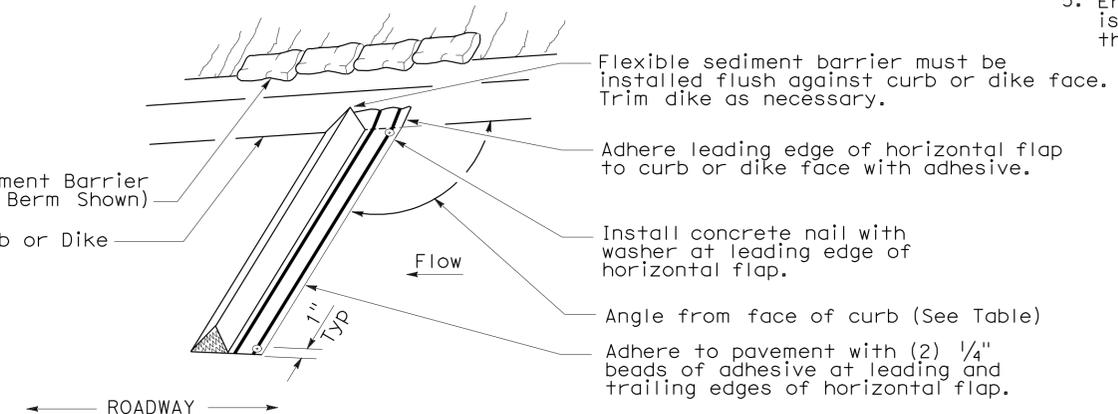


FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)

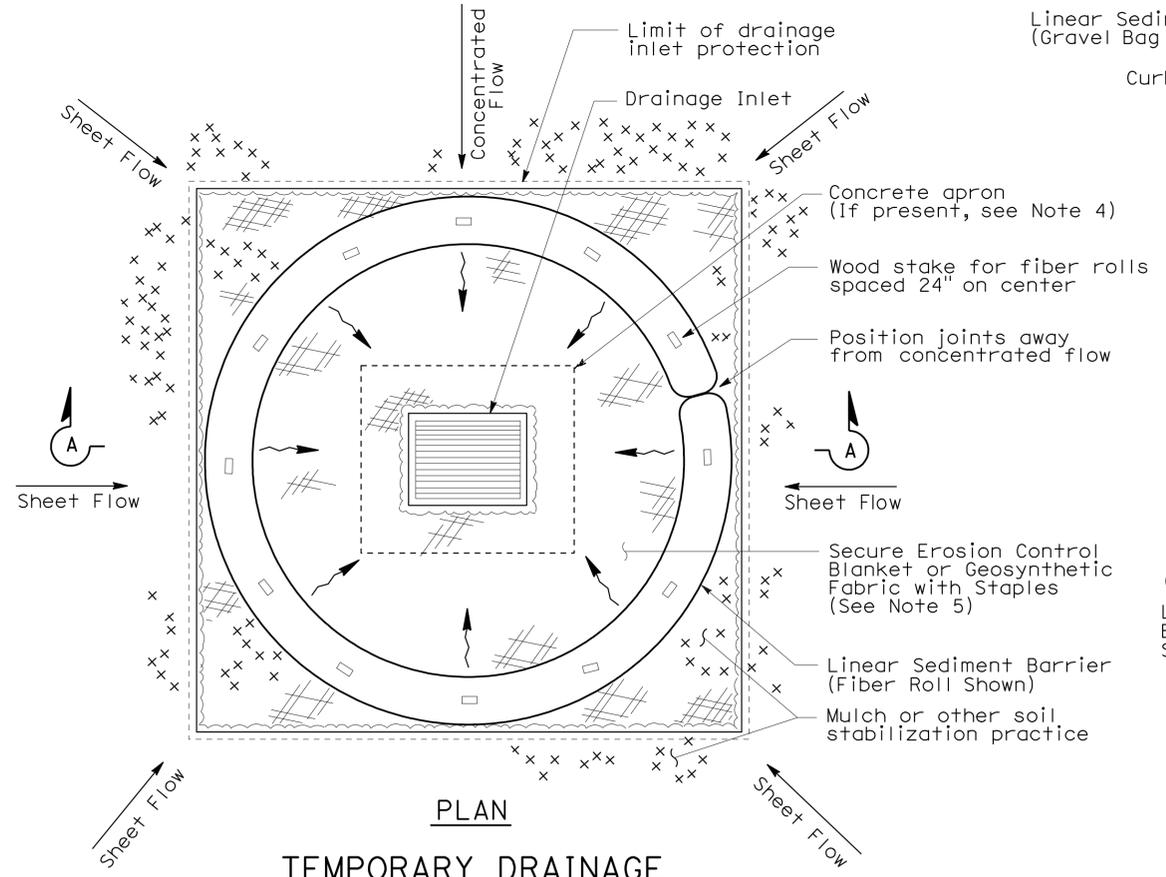
NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.

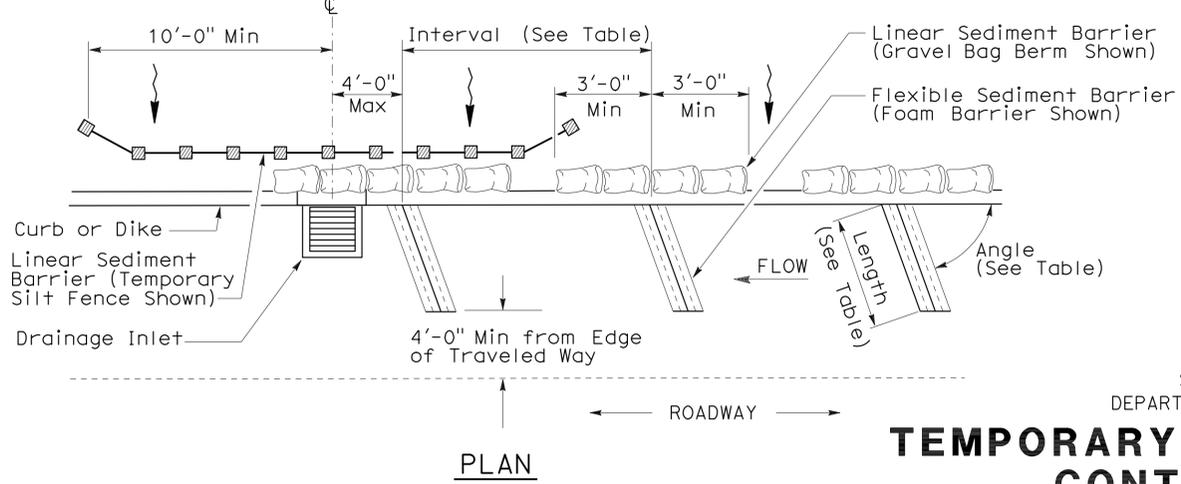
To accompany plans dated 5-26-09



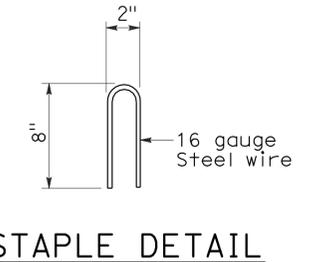
PERSPECTIVE



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
 NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

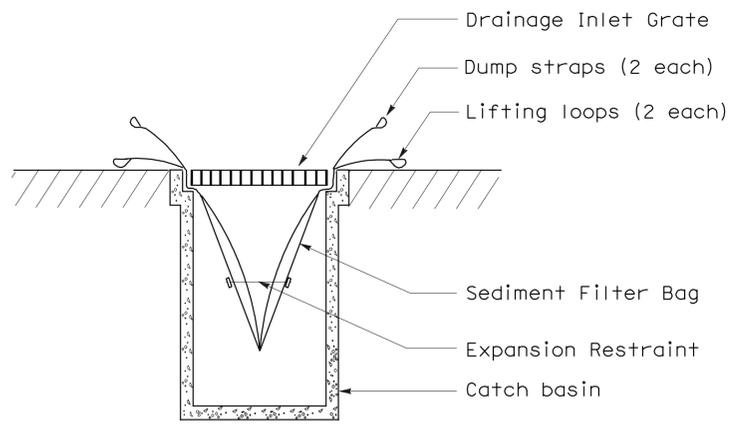
2006 NEW STANDARD PLAN NSP T63

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 55 | 61 |

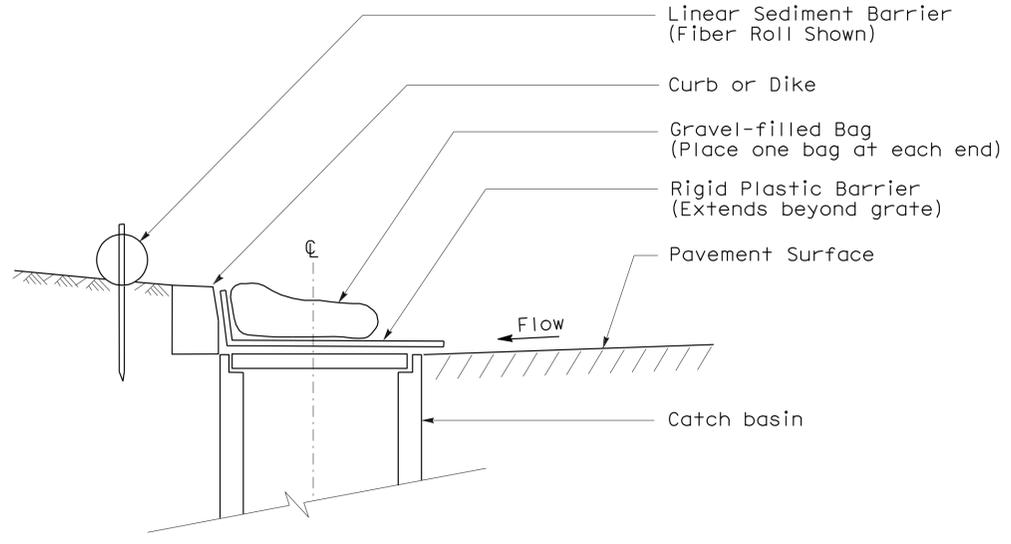
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
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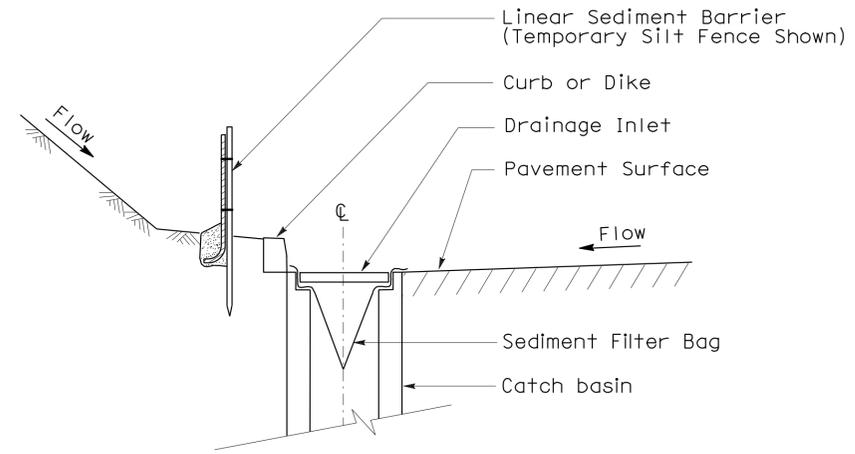
To accompany plans dated 5-26-09



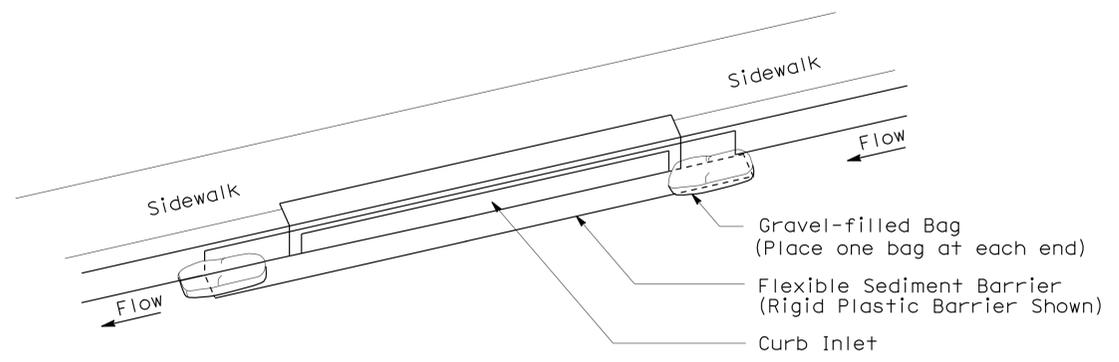
SECTION B-B
SEDIMENT FILTER BAG DETAIL



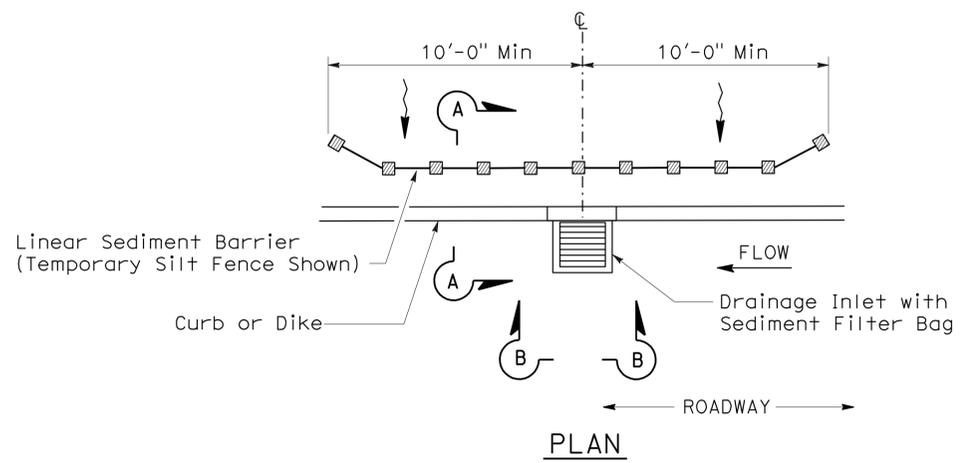
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

NOTES:

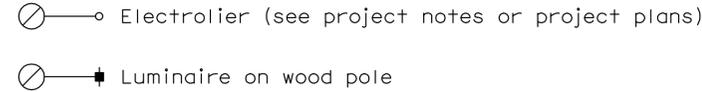
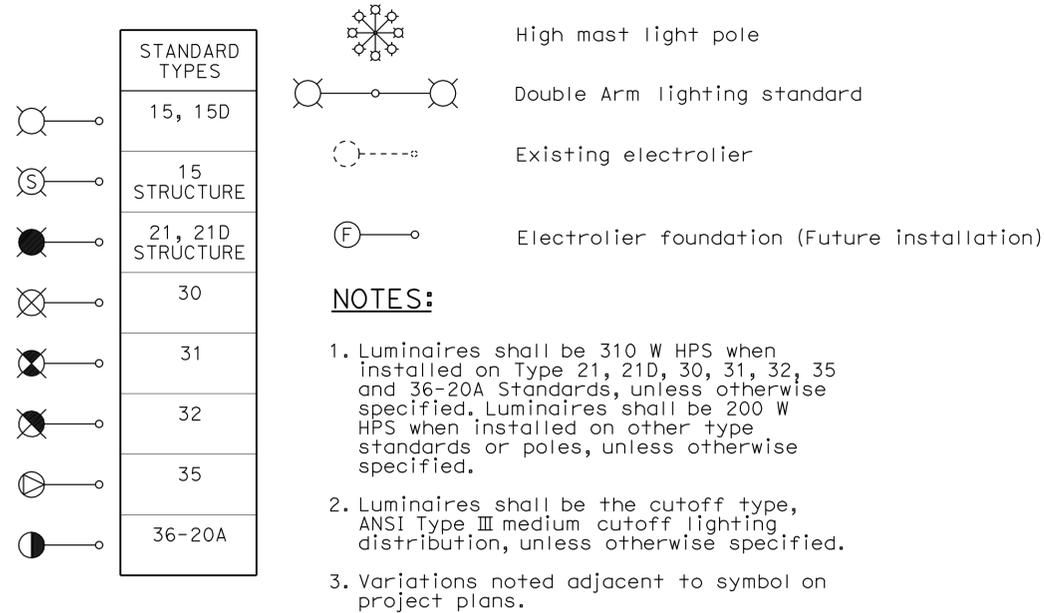
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T64

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

| | | |
|--------|--------|--|
| BBS | bbs | Battery backup system |
| BC | bc | Bolt circle |
| C | C | Conduit |
| CCTV | cctv | Closed circuit television |
| CKT | ckt | Circuit |
| CMS | cms | Changeable message sign |
| DLC | dlc | Loop detector lead-in cable |
| EMS | ems | Extinguishable message sign |
| EVC | evc | Emergency vehicle cable |
| EVD | evd | Emergency vehicle detector |
| FB | fb | Flashing beacon |
| FBCA | fbca | Flashing beacon control assembly |
| FBS | fbs | Flashing beacon with slip base |
| FO | fo | Fiber optic |
| G | G | Ground (Equipment Grounding Conductor) |
| GFCI | GFCI | Ground fault circuit interrupt |
| HAR | har | Highway advisory radio |
| HEX | hex | Hexagonal |
| HPS | hps | High pressure sodium |
| IISNS | iisns | Internally illuminated street name sign |
| ISL | isl | Induction sign lighting |
| LED | led | Light emitting diode |
| LMA | lma | Luminaire mast arm |
| LPS | lps | Low pressure sodium |
| LTG | ltg | Lighting |
| LUM | lum | Luminaire |
| MAT | mat | Mast arm mounting vehicle signal faces, top attachment |
| MAS | mas | Mast arm mounting vehicle signal faces, side attachment |
| MAS-4A | mas-4A | Mast arm mounting vehicle signal faces, side attachment - 4 signal section |
| MAS-4B | mas-4B | |
| MAS-4C | mas-4C | |
| MAS-5A | mas-5A | Mast arm mounting vehicle signal faces, side attachment - 5 signal section |
| MAS-5B | mas-5B | |
| MC | mc | Mercury contactor |
| M/M | m/m | Multiple to multiple transformer |
| MT | mt | Conduit with pull wire or rope only |
| MTG | mtg | Mounting |
| | mv | Mercury vapor lighting fixture |
| N | N | Neutral (Grounded Conductor) |
| NC | NC | Normally closed |
| NO | NO | Normally open |
| PB | pb | Pull box |
| PEC | pec | Photoelectric control (Type I, II, III, IV or V as shown) |
| PED | ped | Pedestrian |
| PEU | peu | Photoelectric unit |
| PPB | ppb | Pedestrian push button |
| RL | | Relocated equipment |
| RM | rm | Ramp metering |
| SB | sb | Slip base |
| SIC | sic | Signal interconnect cable |
| SIG | sig | Signal |
| SMA | sma | Signal mast arm |
| SNS | sns | Street name sign |
| SP | sp | Service point |
| TDC | tdc | Telephone demarcation cabinet |
| TMS | tms | Traffic monitoring station |
| TOS | tos | Traffic Operations System |
| VEH | veh | Vehicle |
| XFMR | xfmr | Transformer |
| COMM | comm | Communication |
| RWIS | rwis | Roadway weather information system |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 56 | 61 |

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

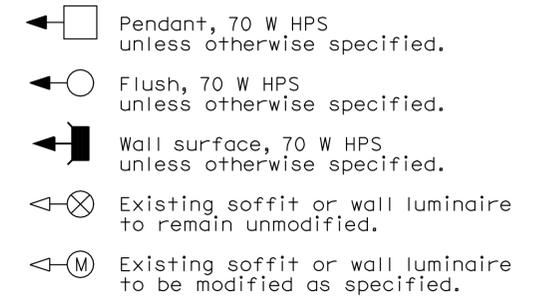
October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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To accompany plans dated 5-26-09

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

| | | | | | |
|------|--------|--------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 04 | SCI | 17,880 | Var | 57 | 61 |

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

CONDUIT

| PROPOSED | EXISTING | |
|----------|----------|---|
| --- | --- | Lighting Conduit, unless otherwise indicated or noted |
| --- | --- | Traffic signal conduit |
| -C- | -c- | Communication conduit |
| -T- | -t- | Telephone conduit |
| -F- | -f- | Fire alarm conduit |
| -FO- | -fo- | Fiber optic conduit |
| --- | --- | Conduit termination RSP ES-9A C |
| | | Conduit riser in/on structure or service pole |

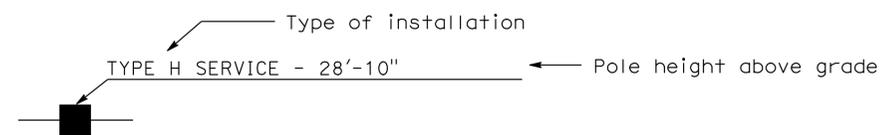
SIGNAL EQUIPMENT

| PROPOSED | EXISTING | |
|----------|----------|--|
| | | Pedestrian signal face |
| | | Pedestrian push button post |
| | | Pedestrian barricade |
| | | Vehicle signal face (with backplate, 3-Section: red, yellow and green) |
| | | Vehicle signal face with angle visors |
| | | Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified) |
| | | Type 15TS and Vehicle signal face |
| | | Vehicle signal face with red, yellow and green left arrow sections |
| | | Vehicle signal face with red and yellow sections and up green arrow |
| | | Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows |
| | | Type 1 Standard and attached vehicle signal faces |
| | | Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign |
| | | Type 33 Standard, Left-turn vehicle signal face and sign |
| | | Standard with luminaire and signal mast arms and attached vehicle signal faces |
| | | Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated |
| | | Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign |
| | | Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication |
| | | Controller assembly. Door indicates front of cabinet |

SERVICE EQUIPMENT

| PROPOSED | EXISTING | |
|----------|----------|---|
| ---OH | ---oh | Overhead lines |
| | | Wood pole "U" indicates utility owned |
| | | Pole guy with anchor |
| | | Utility transformer - ground mounted |
| | | Service equipment enclosure type |
| | | Service equipment enclosure door indicates front of enclosure |
| | | Telephone demarcation cabinet |

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

| PROPOSED | EXISTING | |
|----------|----------|--------------------------------------|
| | | Overhead sign - Single post |
| | | Overhead sign - Two post |
| | | Overhead sign - Mounted on structure |
| | | Overhead sign with electrolier |

SIGNAL EQUIPMENT Cont

| PROPOSED | EXISTING | |
|----------|----------|--------------------------------------|
| | | Guard post |
| | | Type 1 Standard with "Meter On" sign |
| | | Emergency Vehicle detector |

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

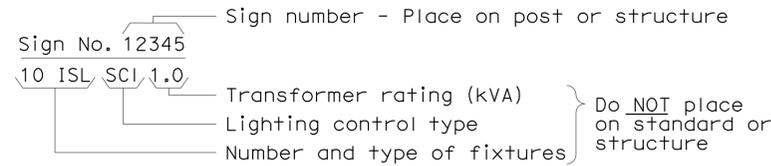
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

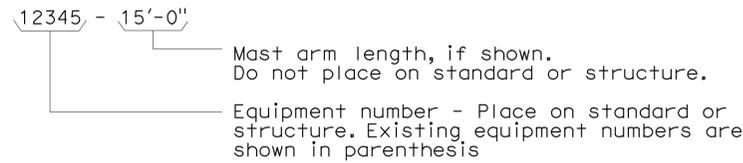
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

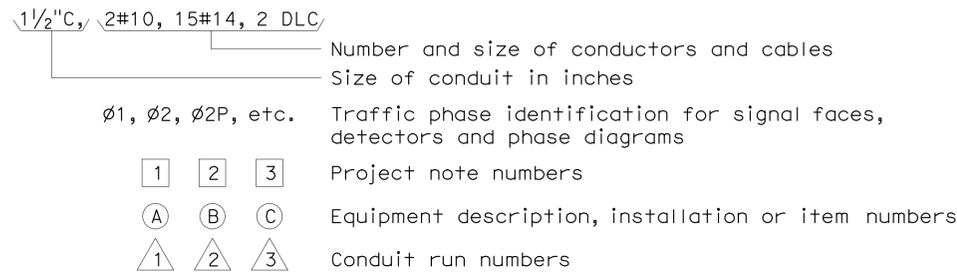
ILLUMINATED SIGN IDENTIFICATION NUMBER:



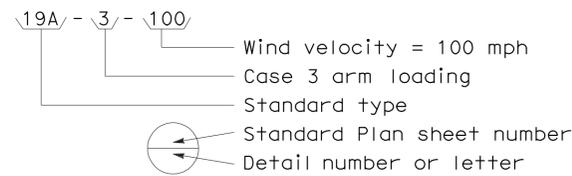
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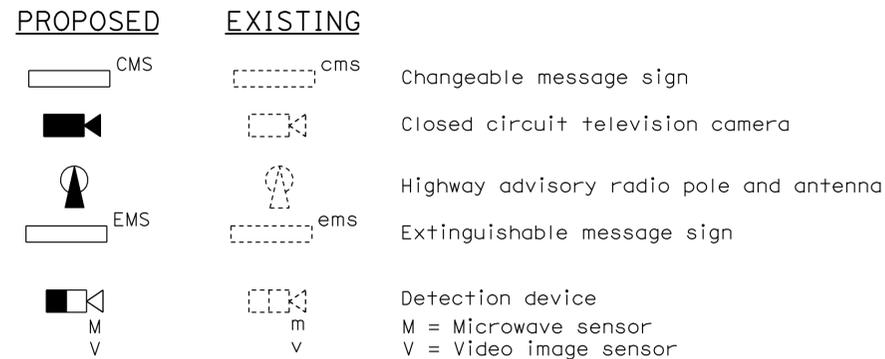
CONDUIT AND CONDUCTOR IDENTIFICATION:



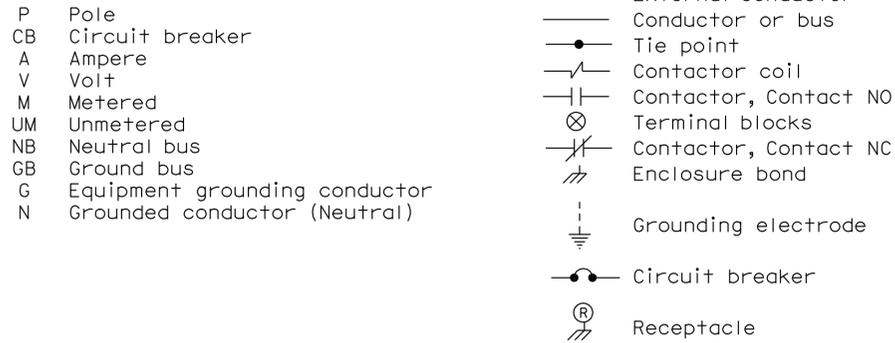
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



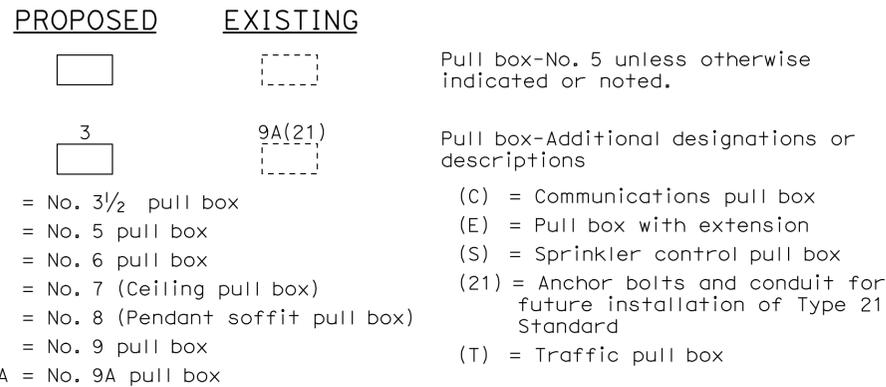
MISCELLANEOUS EQUIPMENT



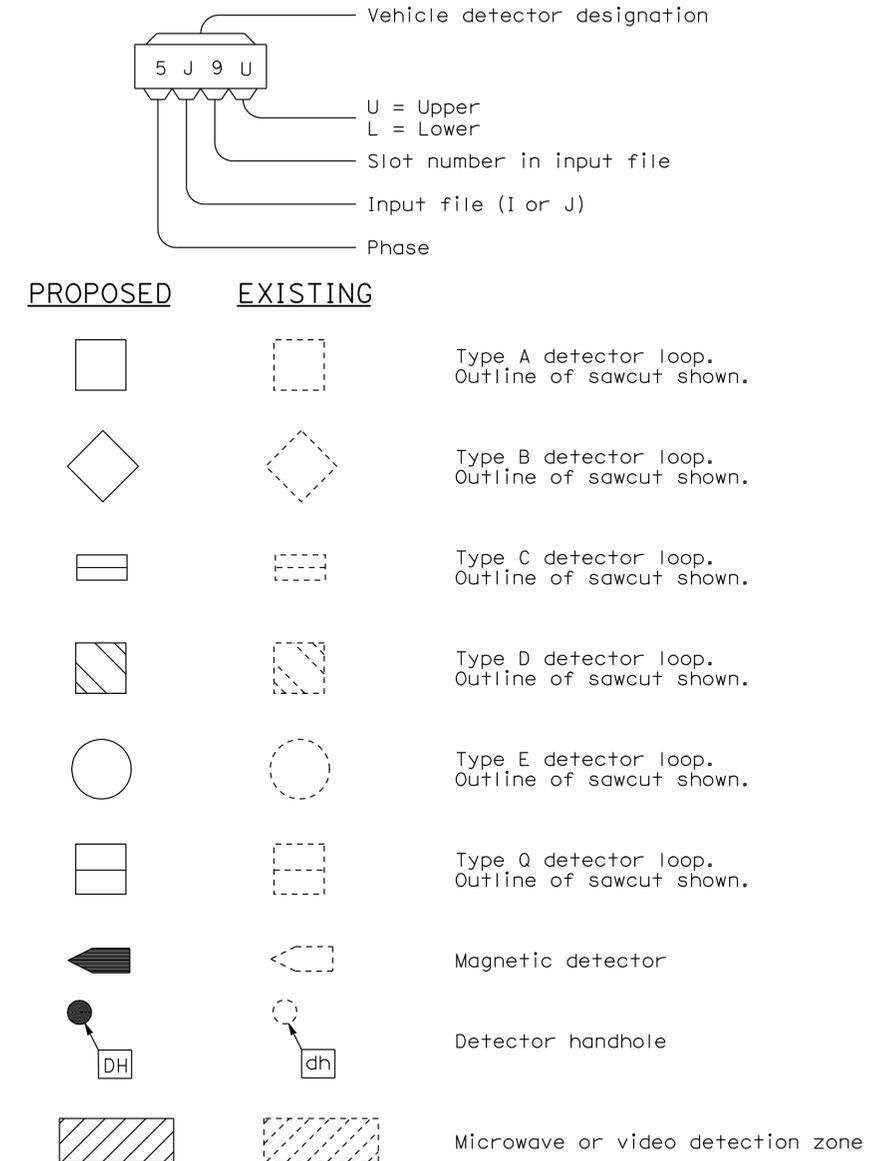
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 59 | 61 |

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER

October 5, 2007
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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NOTES-TYPE III SERVICE EQUIPMENT ENCLOSURES:

1. Service equipment enclosure and metering equipment shall meet the requirements of the service utility. The meter area shall have a sealable, lockable, weathertight cover that can be removed without the use of tools.
2. Service equipment enclosures shall be factory wired and conform to NEMA standards.
3. Dimensions of service equipment enclosures shall meet the requirements of the service utility.
4. The dead front panels on Type III service equipment enclosures shall have a continuous stainless steel or aluminum piano hinge. The panel in front of the breakers shall be secured with a latch or captive screws. No live parts shall be mounted on the dead front panel.
5. The exterior door shall have provisions for padlocking. The padlock hole shall be a minimum diameter of $\frac{1}{16}$ ".
6. Enclosures housing transformers of more than one kVA shall have effective screened ventilation louver of not less than 50 square inches. Screen shall be stainless steel No. 304, with a No. 10 size mesh. Framed screen shall be secured with at least four bolts.
7. Fasteners on the exterior of the enclosure shall be vandal-resistant and shall not be removable from the exterior. Exterior screws, nuts, bolts and washers shall be stainless steel.
8. Landing lugs for incoming service conductors shall be compatible with either copper or aluminum conductors sized to suit the conductors shown on the plan. Landing lugs shall be copper or tin-plated aluminum. Neutral bus shall be rated for 125 A and be suitable for copper or aluminum conductors unless otherwise specified. The terminal shall include but not be limited to:
 - a) Incoming terminals (landing lugs)
 - b) Neutral lugs
 - c) Solid neutral terminal strip
9. At least 6 standard single pole circuit breaker spaces, $\frac{3}{4}$ " nominal, shall be provided for branch circuits. Circuit breaker interiors shall be copper. Interiors of enclosure shall accept plug-in or cable-in/cable-out circuit breakers.
10. Control wiring shall be 600 V, 14 stranded machine tool wire. Where subject to flexing, 19 strand wire shall be used.
11. Main bus shall be rated for 125 A and shall be tin-plated copper.
12. A plastic laminated wiring diagram shall be provided with brass mounting eyelets and attached to the inside of the enclosure and the wiring diagram shall be affixed to the interior with a UL or ETL approved method.

13. An engraved phenolic nameplate on the dead front panel indicating the function of each circuit or device shall be installed with stainless steel rivets or stainless steel screws:
 - a) Adjacent to the breaker or device with character size a minimum of $\frac{1}{8}$ ".
 - b) At the top of the exterior door panel indicating State system number, voltage level and number of phases with character size a minimum of $\frac{3}{16}$ ".
14. The plan shows the approximate location of devices within the enclosure. Components may be rearranged, however, the "working" clearances within the service equipment enclosure shall be maintained.
15. In unpaved areas a raised portland cement concrete pad 2'-0" x 4" x width of foundation shall be constructed in front of new service equipment enclosure installation. Pad shall be set to elevation of foundation.
16. Foundation shall extend 2" minimum beyond edge of service equipment enclosure.
17. Internal bus, where shown, is typical only. Alternative design of proposed service equipment enclosure shall be submitted to the Engineer for approval.
18. Plug-in circuit breakers may be mounted in the vertical or horizontal position. Cable-in/cable-out circuit breakers shall be mounted in the vertical position.
19. Type III-AF and Type III-BF service equipment enclosures shall have the meter viewing windows located on the front side of the service equipment enclosures.
20. Type III-AR and Type III-BR service equipment enclosures shall be similarly constructed as Type III-AF and Type III-BF respectively, except the meter viewing windows shall be located on the back side of the service equipment enclosures.
21. Minimum clearance shall be required for front and back of service equipment enclosure per National Electrical Code, Article 110.26, "Spaces About Electric Equipment (600 Volts, Nominal, or Less)."

To accompany plans dated 5-26-09

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT NOTES
 TYPE III SERIES)**

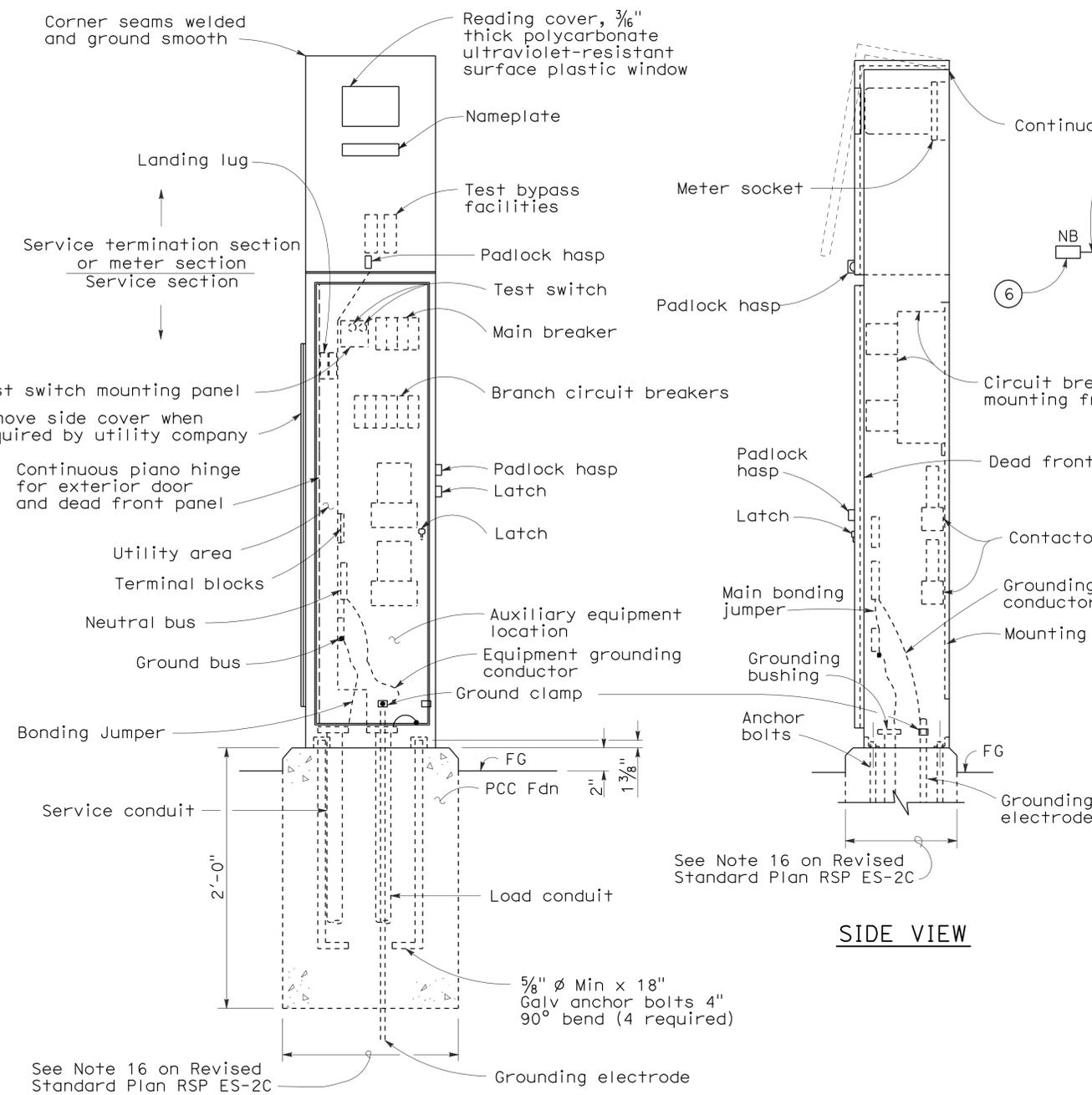
NO SCALE

RSP ES-2C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2C
 DATED MAY 1, 2006 - PAGE 405 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-2C

2006 REVISED STANDARD PLAN RSP ES-2C

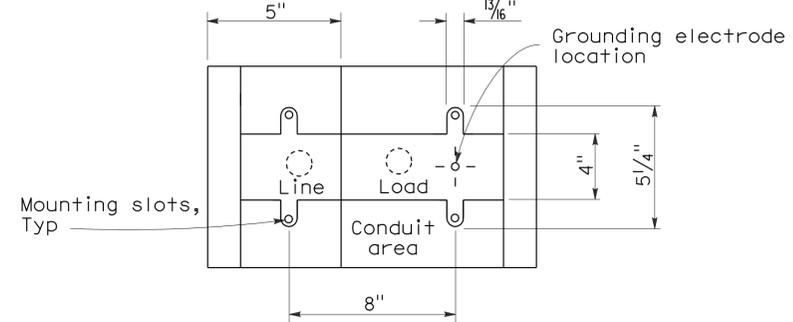
2006 REVISED STANDARD PLAN RSP ES-2D



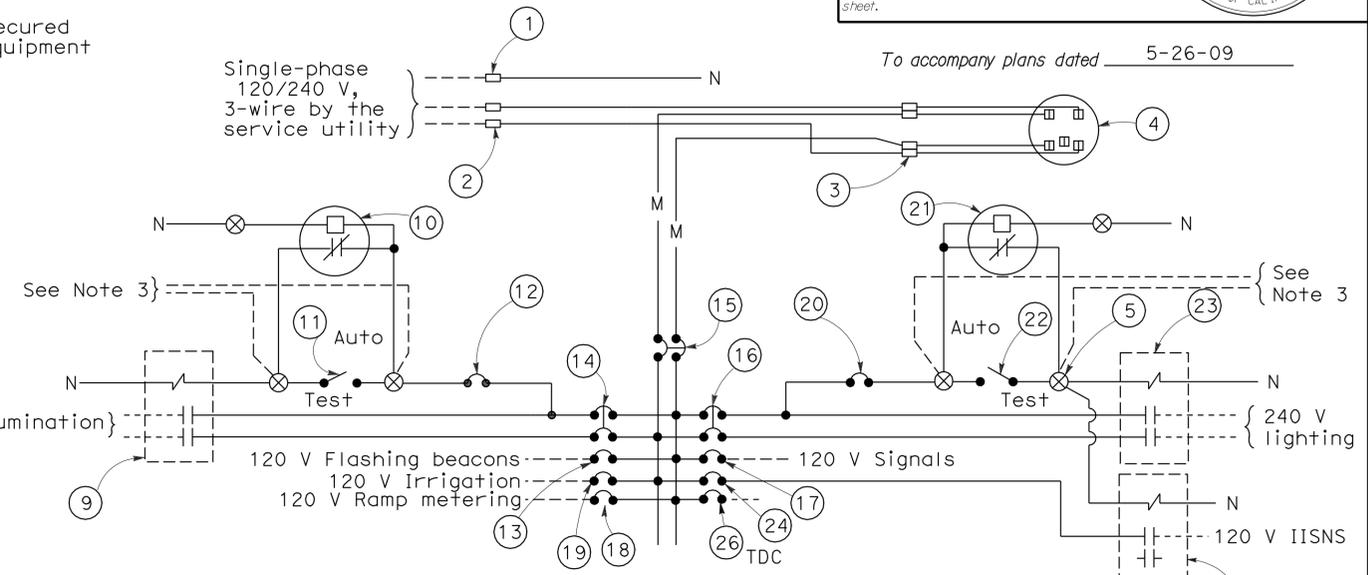
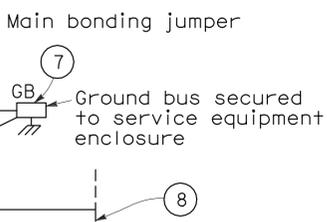
TYPE III-AF SERVICE EQUIPMENT ENCLOSURE (TYPICAL)

FRONT VIEW

SIDE VIEW



BASE FOR TYPE III-A SERVICE EQUIPMENT ENCLOSURE



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

| TYPE III-A SERVICE (120/240 V) EQUIPMENT LEGEND | | | | | |
|---|-----------------------------|-------------------------------|----------|-----------------------------|-------------------------------|
| ITEM No. | COMPONENT | NAME PLATE DESCRIPTION | ITEM No. | COMPONENT | NAME PLATE DESCRIPTION |
| 1 | Neutral lug | | 14 | 30 A, 240 V, 2P, CB | Sign Illumination |
| 2 | Landing lug (Note 6) | | 15 | 100 A, 240 V, 2P, CB | Main Breaker |
| 3 | Test bypass facility | | 16 | 30 A, 240 V, 2P, CB | Lighting |
| 4 | Meter socket and support | | 17 | 50 A, 120 V, 1P, CB | Signals |
| 5 | Terminal blocks | | 18 | 30 A, 120 V, 1P, CB | Ramp Metering |
| 6 | Neutral bus | | 19 | 20 A, 120 V, 1P, CB | Irrigation |
| 7 | Ground bus | | 20 | 15 A, 120 V, 1P, CB | Lighting Control |
| 8 | Grounding electrode | | 21 | Photoelectric unit (Note 7) | |
| 9 | 30 A, 2PNO Contactor | Sign Illumination | 22 | 15 A, 1P, Test switch | Lighting Test Switch |
| 10 | Photoelectric unit (Note 7) | | 23 | 60 A, 2PNO Contactor | Lighting |
| 11 | 15 A, 1P, Test switch | Sign Illumination Test Switch | 24 | 15 A, 120 V, 1P, CB | IISNS |
| 12 | 15 A, 120 V, 1P, CB | Sign Illumination Control | 25 | 30 A, 2PNO Contactor | IISNS |
| 13 | 15 A, 120 V, 1P, CB | Flashing Beacon | 26 | 20 A, 120 V, 1P, CB | Telephone Demarcation Cabinet |

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

- Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
- Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
- Connect to remote test switch mounted on lighting standards, sign post or structure when required.
- Items No. 1 and 6 shall be isolated from the service equipment enclosure.
- Meter sockets shall be 5 clip type.
- The landing lug shall be suitable for multiple conductors.
- Type I photoelectric control shall be used unless otherwise indicated on the plans.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM, TYPE III-A SERIES)

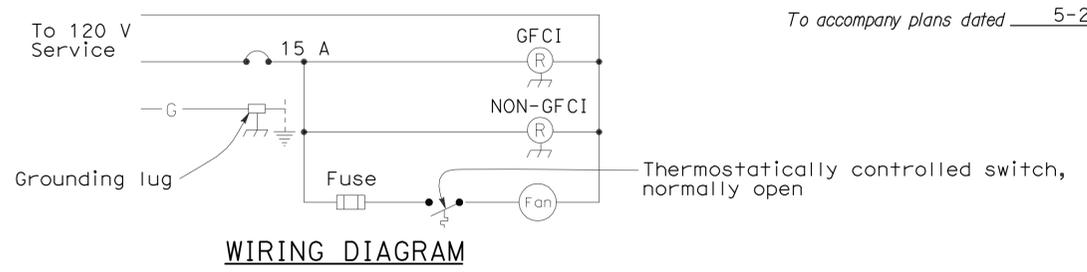
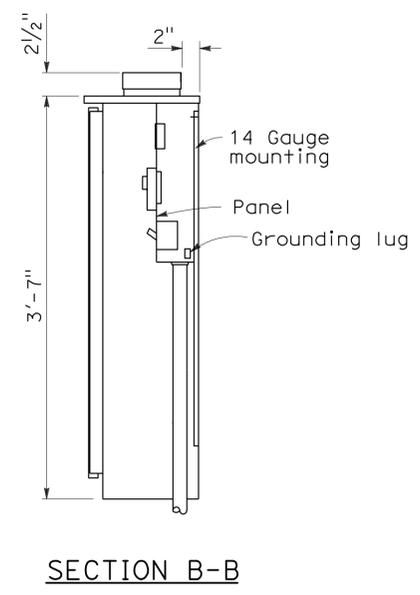
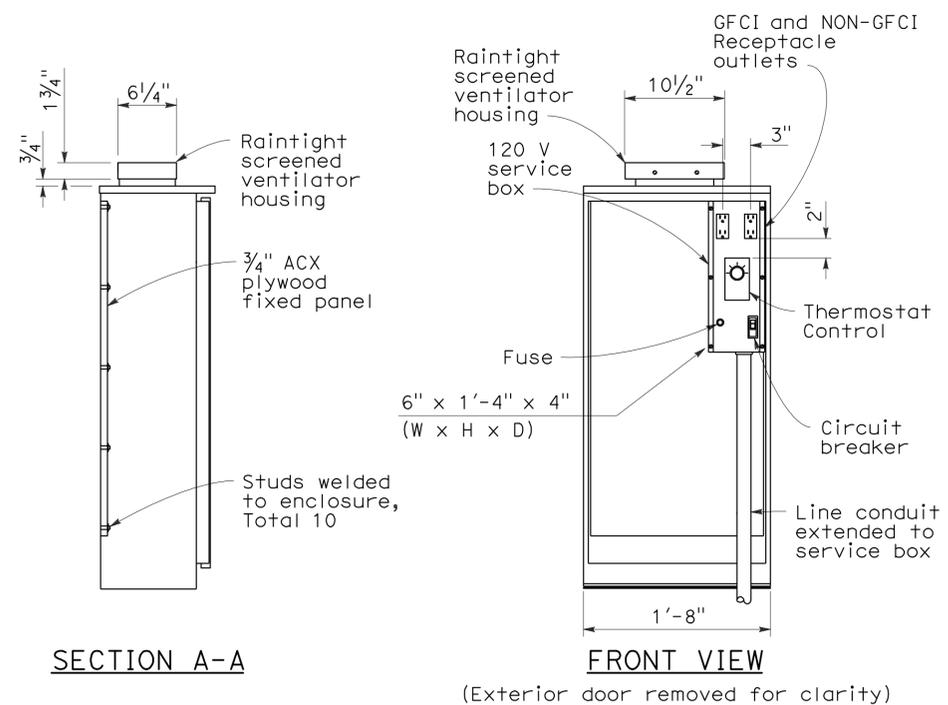
NO SCALE

RSP ES-2D DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2D DATED MAY 1, 2006 - PAGE 406 OF THE STANDARD PLANS BOOK DATED MAY 2006.

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|--------|--------------------------|-----------|--------------|
| 04 | SCI | 17,880 | Var | 61 | 61 |

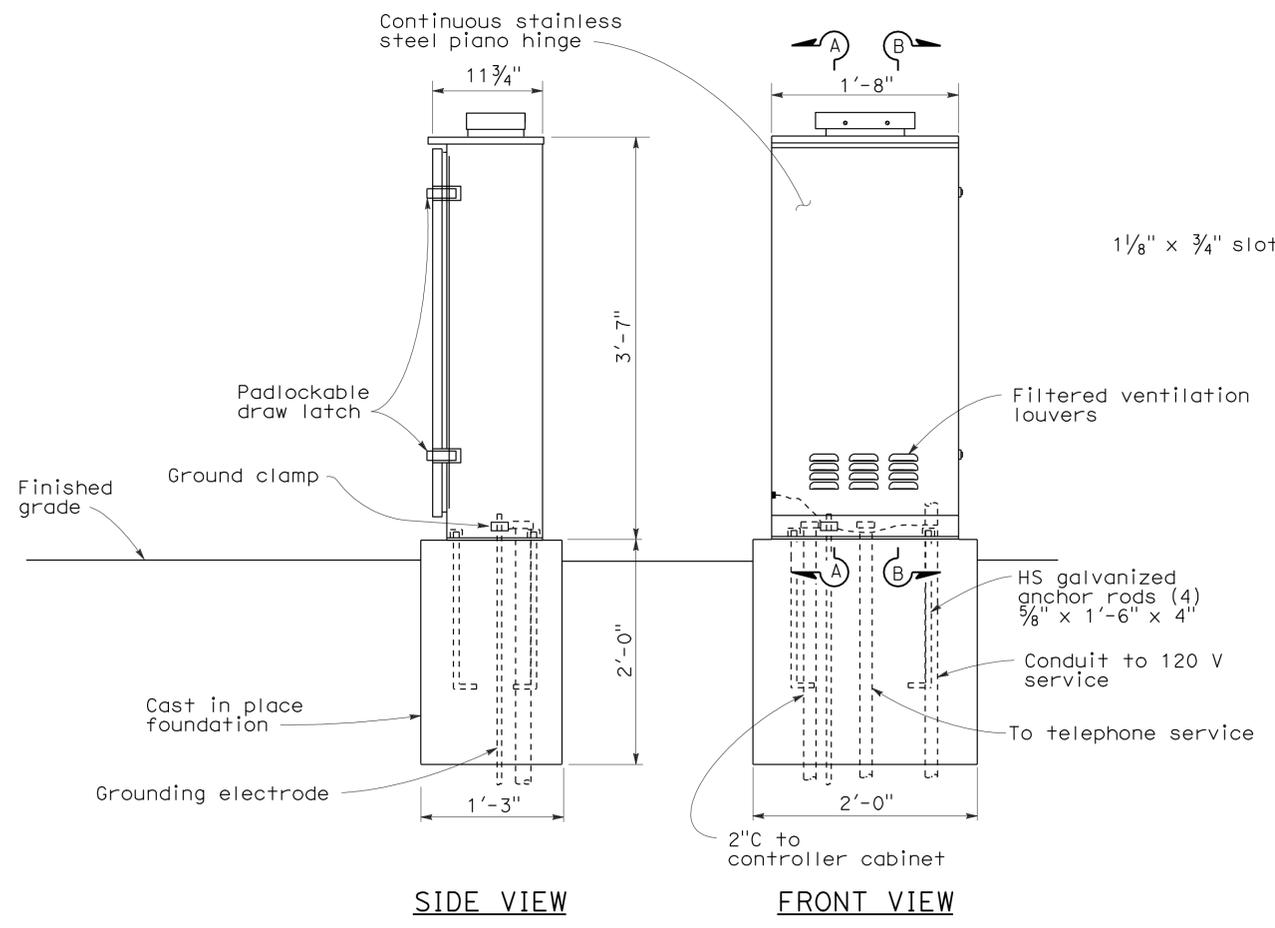
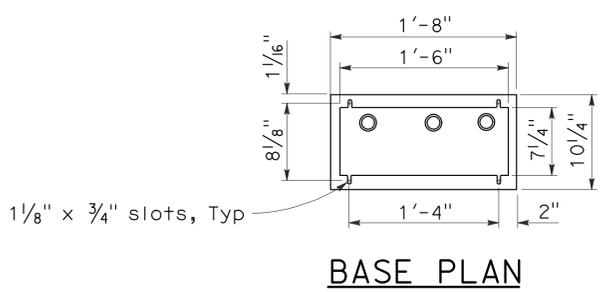
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA



NOTES:

- Telephone demarcation cabinet shall be furnished with a mounting panel, outlets, circuit breaker and deadfront plates in place. Dimensions are nominal.
- An approved mastic or caulking compound shall be placed on the foundation prior to placing the cabinet to seal openings between the bottom of the cabinet and the foundation.
- In unpaved areas, a raised PCC pad shall be placed in front of the telephone demarcation cabinet. Pad shall be 2'-0" x 1'-10" x 4" thick, with 2" above the finished grade.
- All conduits shall be bonded to the enclosure.
- Telephone demarcation cabinet:
 - Material shall be anodized aluminum (1/8" thick).
 - Fabrication shall conform to the requirements of the Standard Specifications.
 - The exterior door shall be side hung and secured with a padlockable draw latch, the padlock hole shall be a minimum diameter of 7/16" to receive a padlock.
 - Ventilation louvers shall be located on the door.
 - Fan shall be mounted in a ventilator housing.
 - Fan shall be thermostatically controlled and adjustable to turn on between 80°F and 130°F.
 - Fan circuit shall be fused at 175 percent of the fan motor capacity.
 - Fan capacity shall be at least 25 cubic feet per minute.
 - Fasten fixed mounting panels with nuts, lock and flat washers to 3/16" ø x 1" studs welded to enclosure.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(TELEPHONE DEMARCATION
CABINET, TYPE B)**

NO SCALE

RSP ES-3E DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-3E
DATED MAY 1, 2006 - PAGE 414 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-3E