

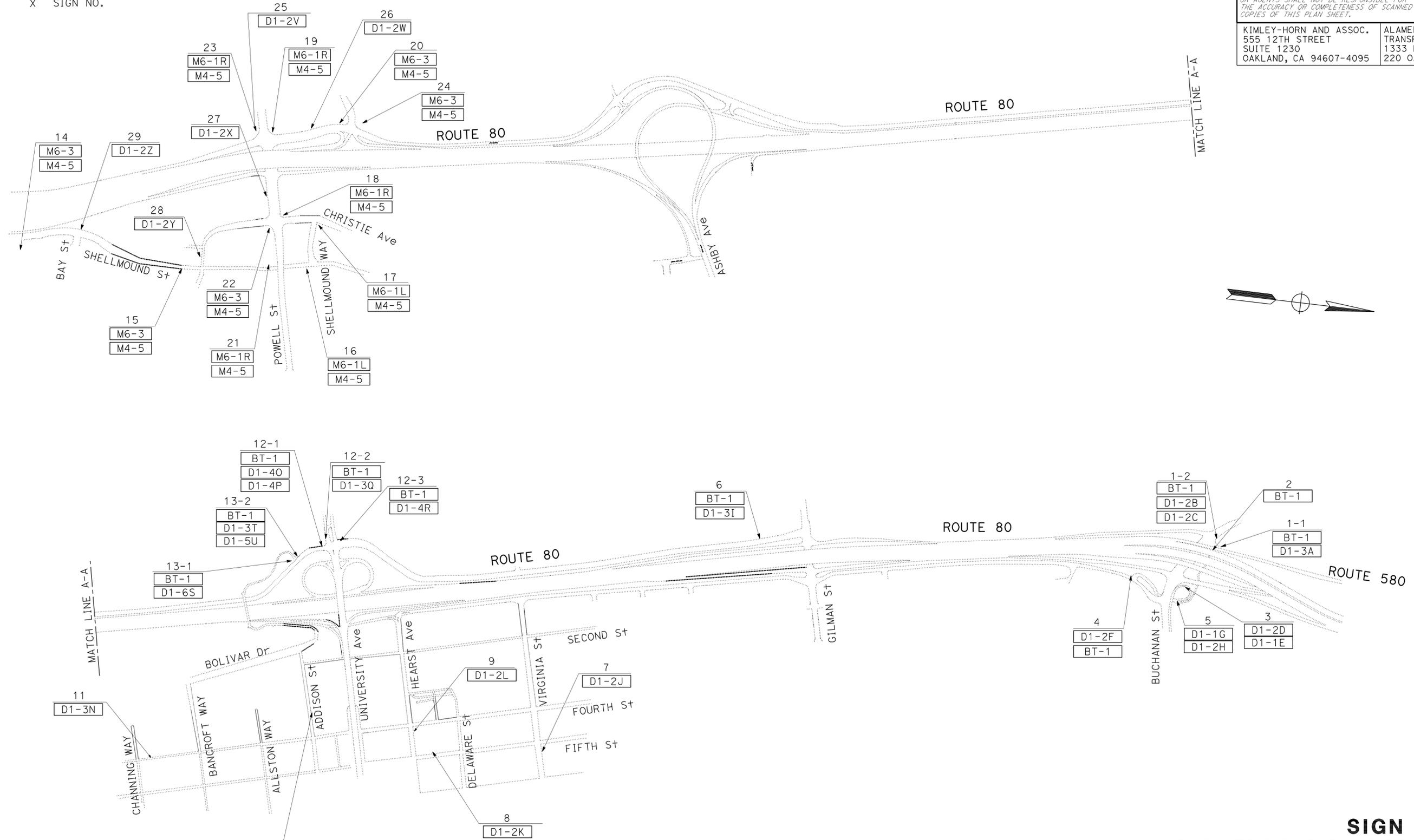
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: RANDAL DURRENBERGER
 SUPERVISOR: SHAWN RAINEY
 DESIGNED BY: SHAWN RAINEY
 CHECKED BY: KWASI AKWABI
 REVISED BY: SAR
 DATE REVISED: 9/12/12

NOTES:

1. LOCATIONS OF BAY TRAIL SIGNS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.

LEGENDS AND ABBREVIATIONS:

- [X] SIGN CODE
- X SIGN NO.



| | | | | | |
|------|---------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala, CC | 80 | 2.3/8.0, 0.0/13.1 | 167A | 319 |

REGISTERED CIVIL ENGINEER: *[Signature]* DATE: 9/12/12

PLANS APPROVAL DATE: 4-9-12

REGISTERED PROFESSIONAL ENGINEER: **KENNETH CHAN**
 No. 68443
 Exp. 9/30/13
 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.

KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095

ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612

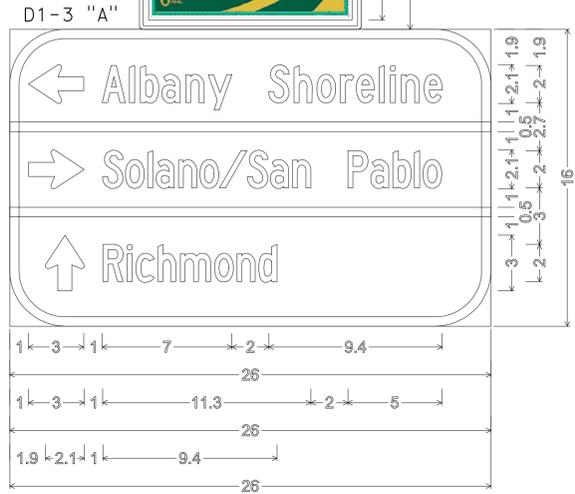
SIGN PLAN
BAY TRAIL SIGN LOCATIONS
S-1

3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR: RANDAL DURRENBARGER
 SHAWN RAINEY / KWAST AKWABI
 REVISOR: SAR / DATE: 9/12/12

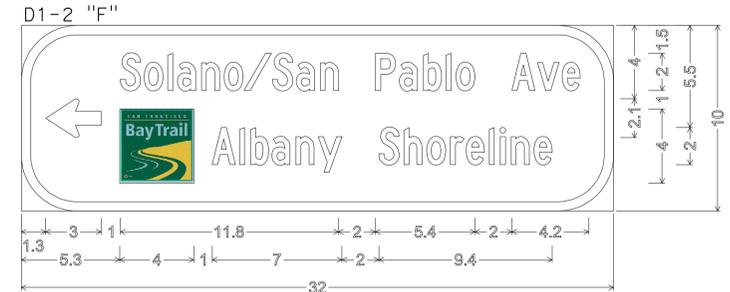


| | | | | | |
|--|---------|-------|--|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala, CC | 80 | 3.8/8.0, 0.0/13.5 | 185A | 319 |
| REGISTERED CIVIL ENGINEER | | | 9/12/12 DATE | | |
| 4-9-12 PLANS APPROVAL DATE | | | | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |
| KIMLEY-HORN AND ASSOC. 555 12TH STREET SUITE 1230 OAKLAND, CA 94607-4095 | | | ALAMEDA COUNTY TRANSPORTATION COMMISSION 1333 BROADWAY, SUITE 220 OAKLAND, CA 94612 | | |



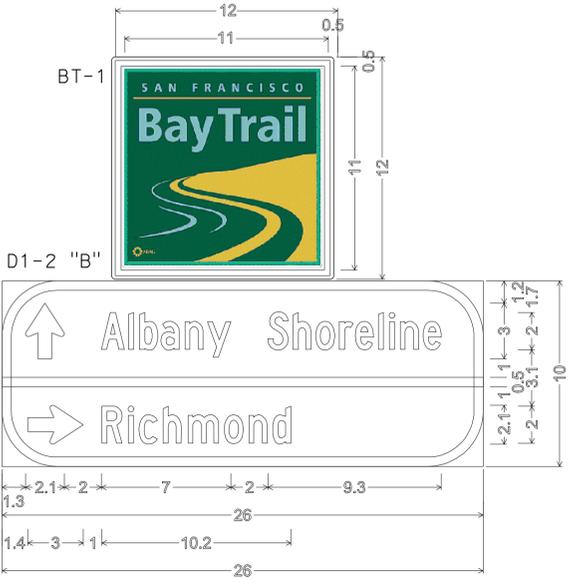
3.0" Radius, 0.5" Border, White on Green; [Albany Shoreline] C; [Solano/San Pablo] C; [Richmond] C;

SIGN 1-1 SOUTH FACING



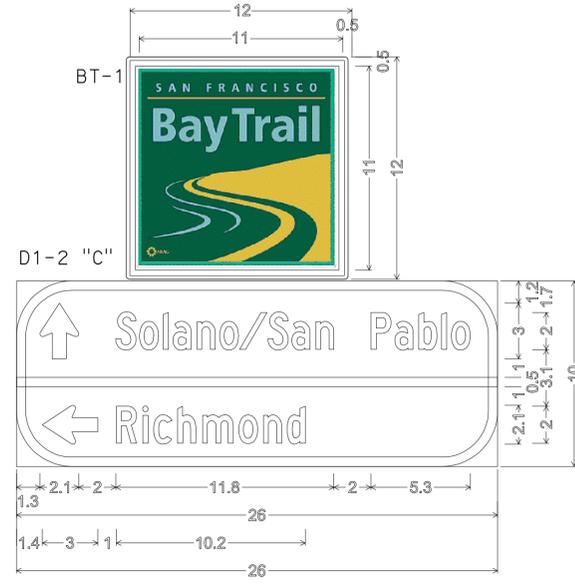
3.0" Radius, 0.5" Border, White on Green; [Solano/San Pablo] C; [Albany Shoreline] C;

SIGN 4 SOUTH FACING



3.0" Radius, 0.5" Border, White on Green; [Albany Shoreline] C; [Richmond] C;

SIGN 1-2 EAST FACING



3.0" Radius, 0.5" Border, White on Green; [Solano/San Pablo] C; [Richmond] C;

SIGN 1-2 WEST FACING



3.0" Radius, 0.5" Border, White on Green; [Shoreline] C;

SIGN 5 NORTH FACING

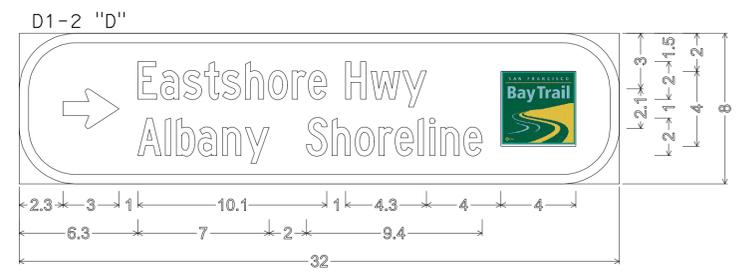


3.0" Radius, 0.5" Border, White on Green; [Solano/San Pablo Ave] C; [Albany Shoreline] C;

SIGN 5 SOUTH FACING



SIGN 2 EAST FACING



3.0" Radius, 0.5" Border, White on Green; [Eastshore Hwy] C; [Albany Shoreline] C;

SIGN 3 SOUTH FACING



3.0" Radius, 0.5" Border, White on Green; [Solano/San Pablo] C;

SIGN 3 NORTH FACING

**SIGN DETAILS
 BAY TRAIL SIGNAGE
 SD-19**

3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: RANDAL DURRENBERGER
 SUPERVISOR: SHAWN RAINEY
 DESIGNED BY: SHAWN RAINEY
 CHECKED BY: KWASI AKWABI
 REVISED BY: SAR
 DATE REVISED: 9/12/12

| | | | | | |
|------|---------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala, CC | 80 | 3.8/8.0, 0.0/13.5 | 185B | 319 |

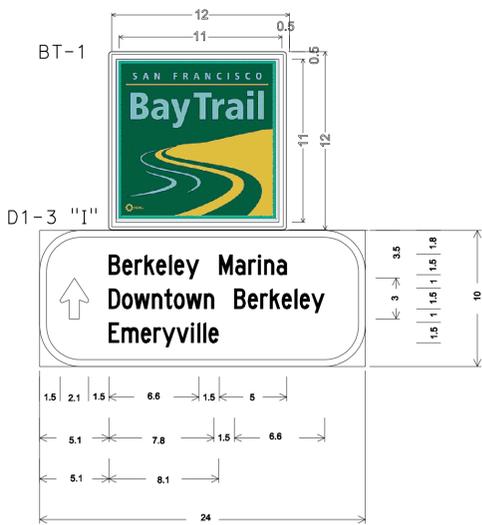
9/12/12
 REGISTERED CIVIL ENGINEER DATE
 4-9-12
 PLANS APPROVAL DATE

KENNETH CHAN
 No. 68443
 Exp. 9/30/13
 CIVIL
 STATE OF CALIFORNIA

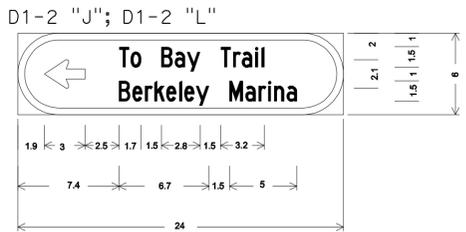
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095

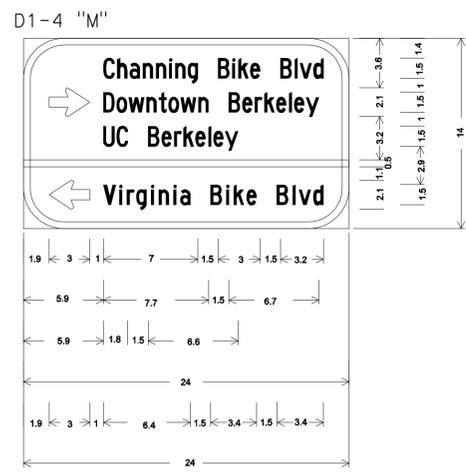
ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612



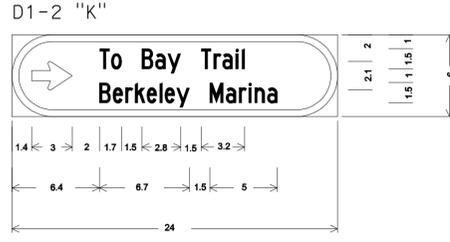
**SIGN 6
 NORTH FACING**



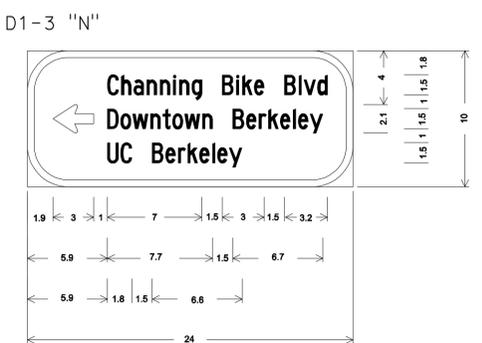
**SIGNS 7 & 9
 EAST FACING**



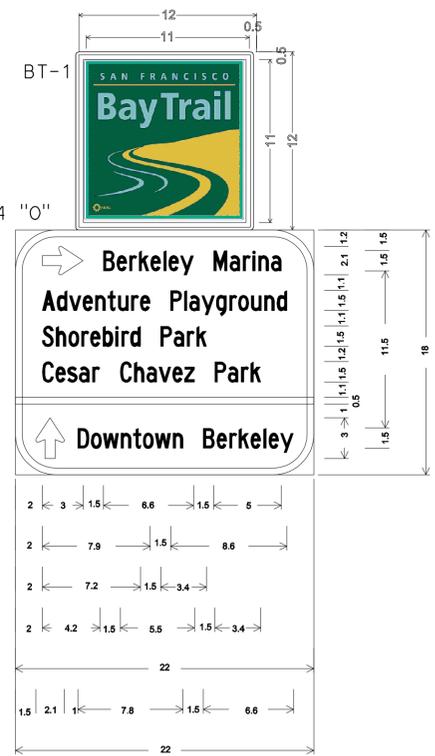
**SIGN 10
 WEST FACING**



**SIGN 8
 NORTH FACING**



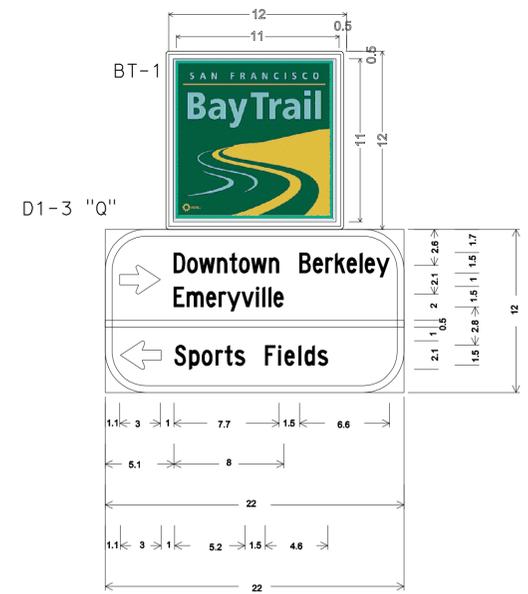
**SIGN 11
 NORTH FACING**



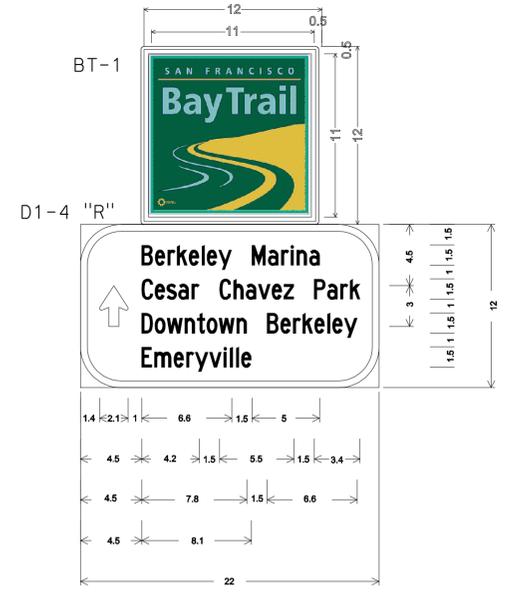
**SIGN 12-1
 NORTH FACING**



**SIGN 12-1
 SOUTH FACING**



**SIGN 12-2
 WEST FACING**



**SIGN 12-3
 NORTH FACING**



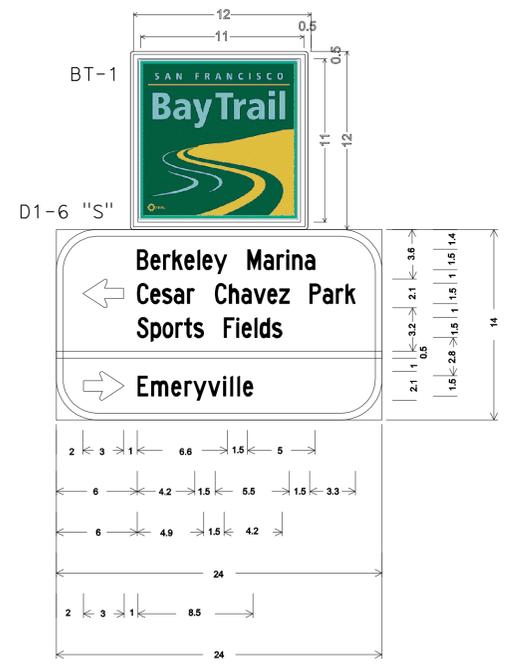
ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

**SIGN DETAILS
 BAY TRAIL SIGNAGE
 SD-20**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR: RANDAL DURRENBARGER
 CALCULATED/DESIGNED BY: SHAWN RAINEY
 CHECKED BY: KWASI AKWABI
 REVISED BY: SAR
 DATE REVISED: 9/12/12

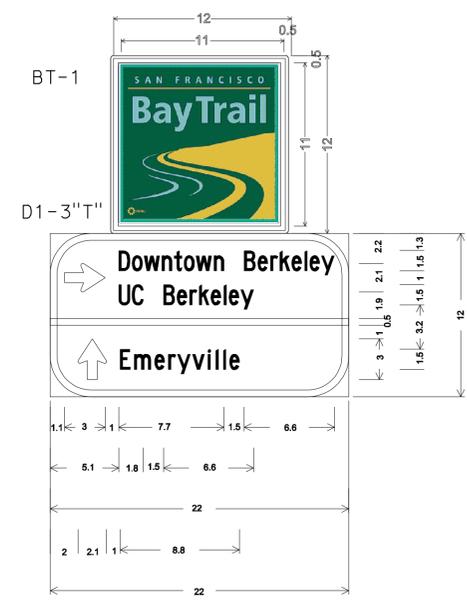
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|---------|-------|--------------------------|-----------|--------------|
| 04 | Ala, CC | 80 | 3.8/8.0, 0.0/13.5 | 185C | 319 |

REGISTERED CIVIL ENGINEER: *Kenneth Chan* DATE: 9/12/12
 PLANS APPROVAL DATE: 4-9-12
 REGISTERED PROFESSIONAL ENGINEER: KENNETH CHAN No. 68443 Exp. 9/30/13 CIVIL
 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.
 KIMLEY-HORN AND ASSOC. 555 12TH STREET SUITE 1230 OAKLAND, CA 94607-4095
 ALAMEDA COUNTY TRANSPORTATION COMMISSION 1333 BROADWAY, SUITE 220 OAKLAND, CA 94612



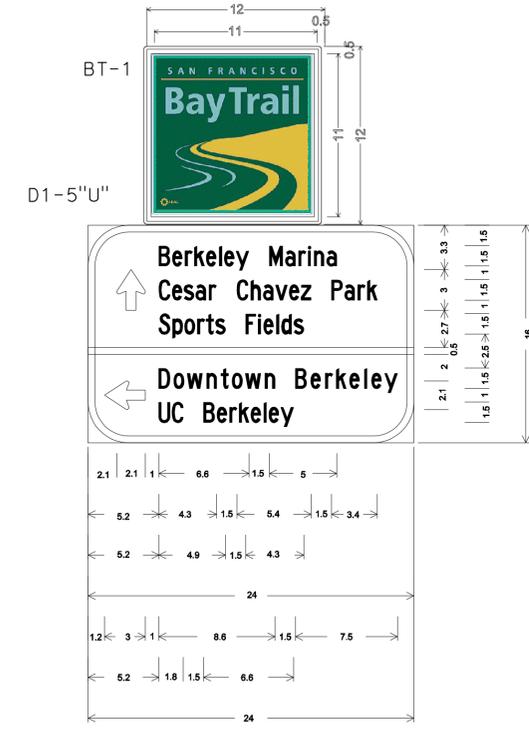
3.0" Radius, 0.5" Border,
 White Text on Bay Trail Green with Bay Trail Goldenrod Border;
 [Berkeley Marina] C; [Cesar Chavez Park] C;
 [Sports Fields] C; [Emeryville] C;

**SIGN 13-1
 WEST FACING**



3.0" Radius, 0.5" Border,
 White Text on Bay Trail Green with Bay Trail Goldenrod Border;
 [Downtown Berkeley] C; [UC Berkeley] C; [Emeryville] C;

**SIGN 13-2
 NORTH FACING**



3.0" Radius, 0.5" Border,
 White Text on Bay Trail Green with Bay Trail Goldenrod Border;
 [Berkeley Marina] C; [Cesar Chavez Park] C; [Sports Fields];
 [Downtown Berkeley] C; [UC Berkeley] C;

**SIGN 13-2
 SOUTH FACING**

3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

**SIGN DETAILS
 BAY TRAIL SIGNAGE
 SD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 RANDAL DURRENBARGER
 CALCULATED-DESIGNED BY
 CHECKED BY
 SHAWN RAINEY
 KWAST AKWABI
 REVISED BY
 DATE REVISED
 SAR
 9/12/12

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala,CC | 80 | 2.3/8.0, 0.0/13.1 | 185E | 319 |

9/12/12
 REGISTERED CIVIL ENGINEER DATE

4-9-12
 PLANS APPROVAL DATE

KENNETH CHAN
 No. 68443
 Exp. 9/30/13
 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.

KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095

ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612

BAY TRAIL SIGN LOCATIONS TABLE

| LOCATION NO. | LOCATION DESCRIPTION* | ARROW CONFIG | DETAIL SHEET |
|--------------|---|--------------|--------------|
| 1-1 | AT ENTRANCE OF BAY TRAIL, AT THE NORTHWEST CORNER OF THE INTERSECTION OF BUCHANAN ST AND I-580 EB OFF-RAMP. | | SD-1 |
| 1-2 | NORTHWEST CORNER OF THE INTERSECTION OF BUCHANAN ST AND I-580 EB OFF-RAMP, APPROXIMATELY 25' WEST OF INTERSECTION. | | SD-1 |
| 3 | NEAR NORTHEAST CORNER OF INTERSECTION OF BUCHANAN ST AND I-80 WB ON-RAMP, INSTALL SIGN POST ON NORTHWEST CORNER OF WHERE SIDEWALK MEETS BIKE PATH LOOP. | | SD-1 |
| 4 | AT ENTRANCE OF BAY TRAIL, AT THE SOUTHWEST CORNER OF THE INTERSECTION BAYSHORE FRONTAGE RD AND BAY TRAIL PATH. | | SD-1 |
| 5 | AT THE INTERSECTION OF THE BAY TRAIL AND THE BUCHANAN ST BIKE PATH LOOP, UNDER THE BUCHANAN ST RAILROAD OVERCROSSING. | | SD-1 |
| 6 | ON BAY TRAIL, APPROXIMATELY 75' SOUTH OF SOUTHWEST CORNER OF THE INTERSECTION OF GILMAN ST AND W. FRONTAGE RD, | | SD-2 |
| 7 | NORTHEAST CORNER OF THE INTERSECTION OF VIRGINIA ST AND 5TH ST, APPROXIMATELY 50' EAST OF INTERSECTION ALONG VIRGINIA ST. | | SD-2 |
| 8 | NORTHWEST CORNER OF THE INTERSECTION OF 5TH ST AND HEARST AVE, APPROXIMATELY 90' NORTH OF INTERSECTION ALONG 5TH ST. | | SD-2 |
| 9 | NORTHEAST CORNER OF THE INTERSECTION OF 4TH ST AND HEARST AVE, APPROXIMATELY 10' EAST OF INTERSECTION ALONG HEARST AVE. | | SD-2 |
| 10 | SOUTHWEST CORNER OF THE INTERSECTION OF 4TH ST AND ADDISON ST, APPROXIMATELY 50' WEST OF INTERSECTION ALONG ADDISON ST. | | SD-2 |
| 11 | NORTHWEST CORNER OF THE INTERSECTION OF 4TH ST AND CHANNING WAY, APPROXIMATELY 40' NORTH OF INTERSECTION ALONG 4TH ST. | | SD-2 |
| 12-1 | SOUTHWEST CORNER OF THE INTERSECTION OF UNIVERSITY AVE AND W. FRONTAGE RD. | | SD-2 |
| 12-2 | SOUTHWEST CORNER OF THE INTERSECTION OF UNIVERSITY AVE AND W. FRONTAGE RD, APPROXIMATELY 25' WEST OF INTERSECTION. | | SD-2 |
| 12-3 | AT ENTRANCE OF BAY TRAIL, NORTHWEST CORNER OF THE INTERSECTION OF UNIVERSITY AVE AND W. FRONTAGE RD. | | SD-2 |
| 13-1 | SOUTHEAST CORNER OF W. FRONTAGE RD AND UNIVERSITY AVENUE BIKE BRIDGE | | SD-3 |
| 13-2 | IN CENTER DIVIDE OF W. FRONTAGE RD AT UNIVERSITY AVENUE BIKE BRIDGE | | SD-3 |
| 14 | SOUTHEAST CORNER OF THE INTERSECTION OF SHELLMOUND ST AND THE IKEA ENTRANCE, APPROXIMATELY 50' SOUTH OF INTERSECTION. | UP | SD-4 |
| 15 | SOUTHEAST CORNER OF THE INTERSECTION OF SHELLMOUND ST AND CHRISTIE AVE, APPROXIMATELY 50' SOUTH OF INTERSECTION. | UP | SD-4 |
| 16 | SOUTHEAST CORNER OF THE INTERSECTION OF SHELLMOUND ST AND SHELLMOUND WAY, APPROXIMATELY 50' SOUTH OF INTERSECTION. | LEFT | SD-4 |
| 17 | NORTHEAST CORNER OF THE INTERSECTION OF SHELLMOUND WAY AND CHRISTIE AVE, APPROXIMATELY 10' EAST OF INTERSECTION. | LEFT | SD-4 |
| 18 | NORTHWEST CORNER OF THE INTERSECTION OF CHRISTIE AVE AND POWELL ST, APPROXIMATELY 10' NORTH OF INTERSECTION. | RIGHT | SD-4 |
| 19 | NORTHWEST CORNER OF THE INTERSECTION OF POWELL ST AND W. FRONTAGE RD. | RIGHT | SD-4 |
| 20 | SOUTHWEST CORNER OF THE INTERSECTION OF W. FRONTAGE RD AND I-80 EB RAMPS, APPROXIMATELY 25' SOUTH OF INTERSECTION. | UP | SD-4 |
| 21 | NORTHWEST CORNER OF THE INTERSECTION OF SHELLMOUND ST AND BAY TRAIL, APPROXIMATELY 25' NORTH OF INTERSECTION. | RIGHT | SD-4 |
| 22 | AT ENTRANCE TO BAY TRAIL, AT THE SOUTHEAST CORNER OF THE INTERSECTION OF POWELL ST AND CHRISTIE AVE. | UP | SD-4 |
| 23 | SOUTHWEST CORNER OF THE INTERSECTION OF POWELL ST AND W. FRONTAGE RD. | RIGHT | SD-4 |
| 24 | NORTHWEST CORNER OF THE INTERSECTION OF W. FRONTAGE RD AND I-80 WB ON-RAMP, APPROXIMATELY 20' NORTH OF INTERSECTION. | UP | SD-4 |
| 25 | ON SAME POST AS LOCATION 23. | LEFT | SD-4 |
| 26 | NORTHWEST CORNER OF THE INTERSECTION OF POWELL ST AND W. FRONTAGE RD, APPROXIMATELY 100' NORTH OF INTERSECTION. | LEFT | SD-4 |
| 27 | SOUTHWEST CORNER OF THE INTERSECTION OF POWELL ST AND CHRISTIE AVE, APPROXIMATELY 50' WEST OF INTERSECTION. | RIGHT | SD-4 |
| 28 | SOUTHWEST CORNER OF THE INTERSECTION OF SHELLMOUND ST AND CHRISTIE AVE, APPROXIMATELY 25' WEST OF INTERSECTION. | RIGHT | SD-4 |
| 29 | NORTHWEST CORNER OF THE INTERSECTION OF SHELLMOUND ST AND BAY ST, APPROXIMATELY 20' NORTH OF INTERSECTION. | UP | SD-4 |

*PRIOR TO INSTALLATION, FINAL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

**SIGN DETAILS
 BAY TRAIL SIGNAGE**

SD-23

LAST REVISION DATE PLOTTED => 17-SEP-2012 09-12-12 TIME PLOTTED => 14:21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 RANDAL DURRENBERGER
 CALCULATED/DESIGNED BY
 CHECKED BY
 SHAWN RAINEY
 KWASI AKWABI
 REVISED BY
 DATE REVISED
 SAR
 9/12/12

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala,CC | 80 | 2.3/8.0, 0.0/13.1 | 188A | 319 |

9/12/12
 REGISTERED CIVIL ENGINEER DATE
 4-9-12
 PLANS APPROVAL DATE

KENNETH CHAN
 No. 68443
 Exp. 9/30/13
 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.

KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095

ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612

BAY TRAIL SIGN QUANTITIES

3

| LOCATION NO. | SIGN CODE | POST SIZE (N) | INSTALL SIGN | INSTALL SIGN ON EXISTING POLE | REMOVE ROADSIDE SIGN | VERTICAL CLEARANCE | REMARKS |
|--------------|--------------------|---------------|--------------|-------------------------------|----------------------|--------------------|--|
| | | 4"X4" | EA | EA | EA | FT | |
| 1-1 | BT-1; D1-3A | 1 | 1 | | | | |
| 1-2 | BT-1; D1-2B; D1-2C | 1 | 1 | | | | |
| 2 | BT-1 | 1 | 1 | | | | |
| 3 | D1-2D; D1-1E | 1 | 1 | | | | |
| 4 | D1-2F | 1 | 1 | | | | |
| 5 | D1-1G; D1-2H | 1 | 1 | | | | |
| 6 | BT-1; D1-3I | | | 1 | 1 | 5 | REMOVE Exist. D11-1 AND Exist. M4-12. INSTALL NEW SIGN BELOW Exist. BAY TRAIL SIGN. |
| 7 | D1-2J | | | 1 | | 8 | INSTALL NEW SIGN BELOW Exist. D11-1. PROVIDE 8FT VERTICAL CLEARANCE FROM BOTTOM OF PANEL. |
| 8 | D1-2K | | | 1 | 1 | 8 | REMOVE Exist. WAYFINDING SIGN. INSTALL NEW SIGN BELOW Exist. D11-1. PROVIDE 8FT VERTICAL CLEARANCE FROM BOTTOM OF PANEL. |
| 9 | D1-2L | | | 1 | | 8 | INSTALL NEW SIGN PANEL ABOVE Exist. R1-1 AND BELOW Exist. D11-1. |
| 10 | D1-4M | | | 1 | 1 | 8 | REMOVE Exist. WAYFINDING SIGN. INSTALL NEW SIGN BELOW Exist. D11-1. PROVIDE 8FT VERTICAL CLEARANCE FROM BOTTOM OF PANEL. |
| 11 | D1-3N | | | 1 | 1 | 8 | REMOVE Exist. WAYFINDING SIGN. INSTALL NEW SIGN BELOW Exist. D11-1. PROVIDE 8FT VERTICAL CLEARANCE FROM BOTTOM OF PANEL. |
| 12-1 | BT-1; D1-4O; D1-4P | | | 2 | | 7/5 | INSTALL D1-4 BELOW Exist. BAY TRAIL SIGN. |
| 12-2 | BT-1; D1-3Q | 1 | 1 | | | 5 | |
| 12-3 | D1-4R | 1 | 1 | | | 5 | |
| 13-1 | BT-1; D1-6S | 1 | 1 | | | 5 | |
| 13-2 | BT-1; D1-3T; D1-5U | 1 | 1 | | | 7 | |
| 14 | M4-5; M6-3 | 1 | 1 | | | | |
| 15 | M4-5; M6-3 | 1 | 1 | | | | |
| 16 | M4-5; M6-1L | 1 | 1 | | | | |
| 17 | M4-5; M6-1L | 1 | 1 | | | | |
| 18 | M4-5; M6-1R | 1 | 1 | | | | |
| 19 | M4-5; M6-1R | 1 | 1 | | | | |
| 20 | M4-5; M6-3 | 1 | 1 | | | | |
| 21 | M4-5; M6-1R | 1 | 1 | | | | |
| 22 | M4-5; M6-3 | 1 | 1 | | | | |
| 23 | M4-5; M6-1R | 1 | 1 | | | | |
| 24 | M4-5; M6-3 | 1 | 1 | | | | |
| 25 | D1-2V | | | | | | INSTALL SIGN ON SAME POST AS LOCATION 23 |
| 26 | D1-2W | 1 | 1 | | | | |
| 27 | D1-2X | 1 | 1 | | | | |
| 28 | D1-2Y | 1 | 1 | | | | |
| 29 | D1-2Z | 1 | 1 | | | | |
| TOTAL | | | 25 | 8 | 4 | | |

(N) NOT A BID ITEM. FOR INFORMATION ONLY.

3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

**SIGN QUANTITIES
 BAY TRAIL SIGNS
 SQ-4**

LAST REVISION DATE PLOTTED => 17-SEP-2012 09-12-12 TIME PLOTTED => 14:21

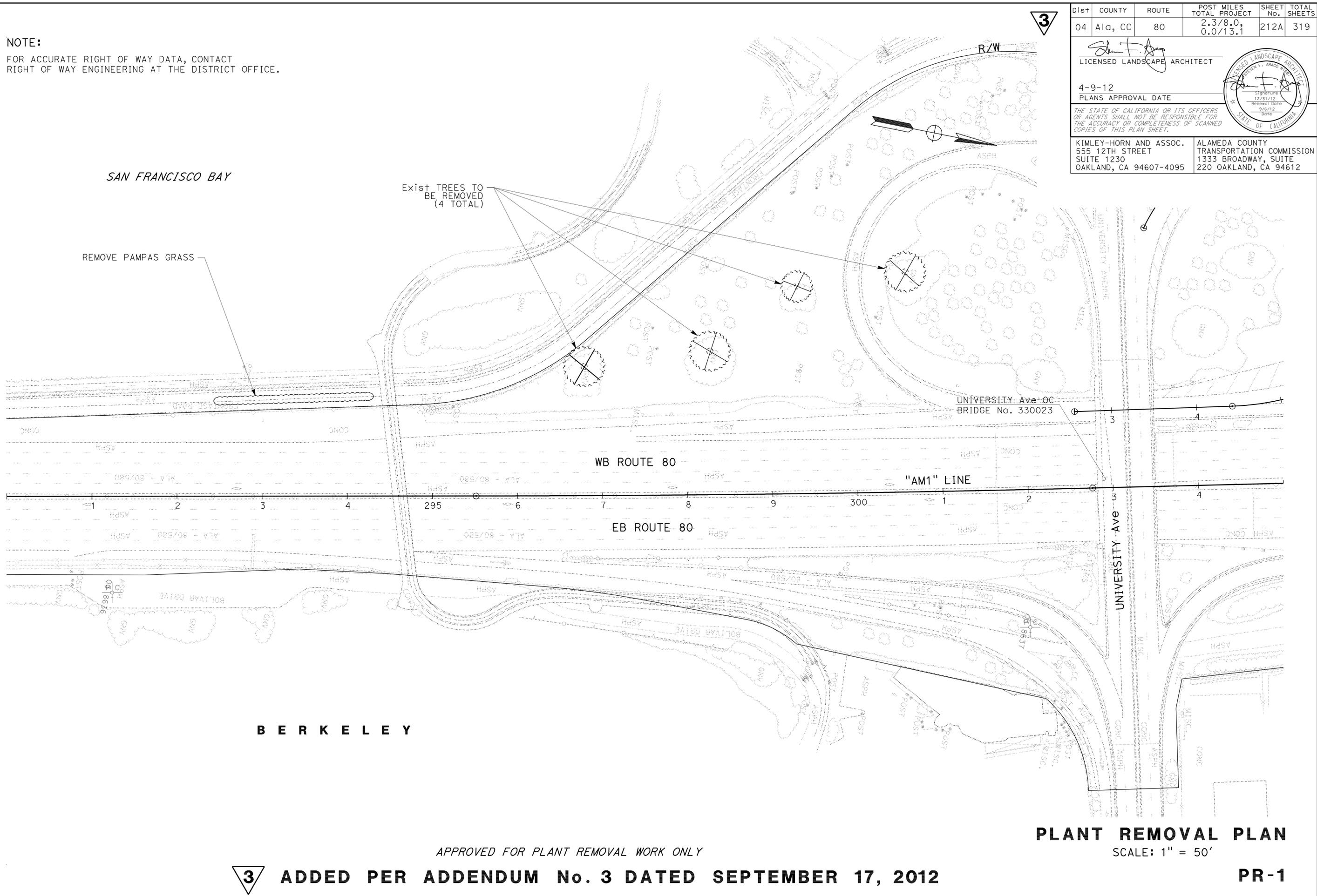
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - SENIOR LANDSCAPE ARCHITECT
 RANDAL DURRENBARGER
 CALCULATED/DESIGNED BY
 SHAWN RAINEY
 CHECKED BY
 STEVEN ARAGO
 REVISED BY
 SAR
 DATE REVISED
 9/12/12

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

| | | | | | |
|------|---------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala, CC | 80 | 2.3/8.0, 0.0/13.1 | 212A | 319 |


 LICENSED LANDSCAPE ARCHITECT
 4-9-12
 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.

 KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095
 ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612



3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

PLANT REMOVAL PLAN
 SCALE: 1" = 50'

PR-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - SENIOR LANDSCAPE ARCHITECT
 RANDAL DURRENBARGER
 CALCULATED/DESIGNED BY
 SHAWN RAINEY
 CHECKED BY
 STEVEN ARAGO
 REVISED BY
 SAR
 DATE REVISED
 9/12/12

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

3

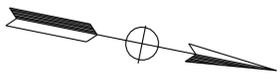
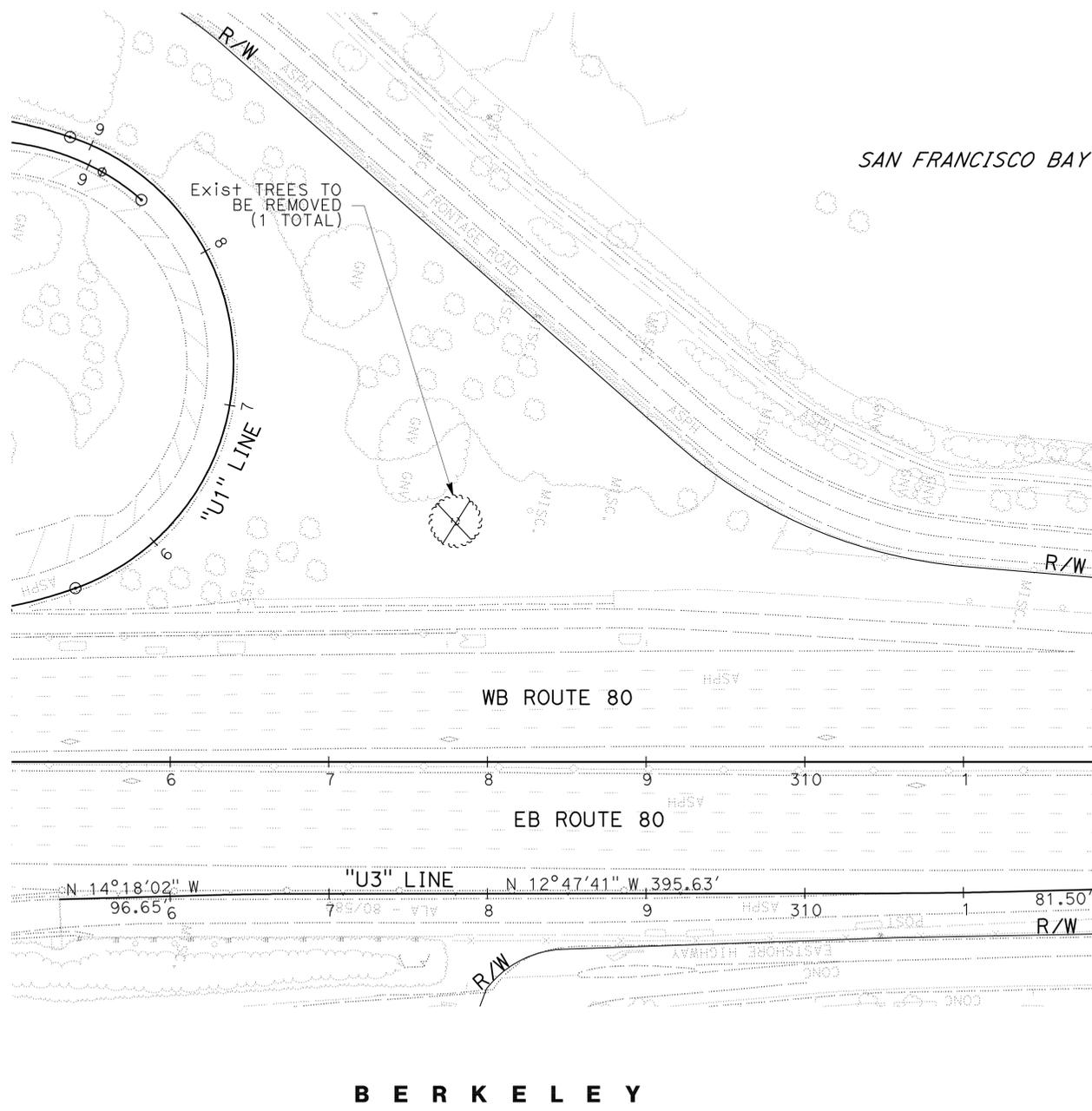
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|---------|-------|--------------------------|-----------|--------------|
| 04 | Ala, CC | 80 | 2.3/8.0, 0.0/13.1 | 212B | 319 |

LICENSED LANDSCAPE ARCHITECT
 4-9-12
 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.

KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095

ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612



APPROVED FOR PLANT REMOVAL WORK ONLY

3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

PLANT REMOVAL PLAN
 SCALE: 1" = 50'
PR-2

LAST REVISION DATE PLOTTED => 17-SEP-2012 09-12-12 TIME PLOTTED => 14:47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - SENIOR LANDSCAPE ARCHITECT
 RANDAL DURRENBARGER
 CALCULATED-DESIGNED BY
 SHAWN RAINEY
 CHECKED BY
 STEVEN ARAGO
 REVISED BY
 SAR
 DATE REVISED
 9/12/12

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

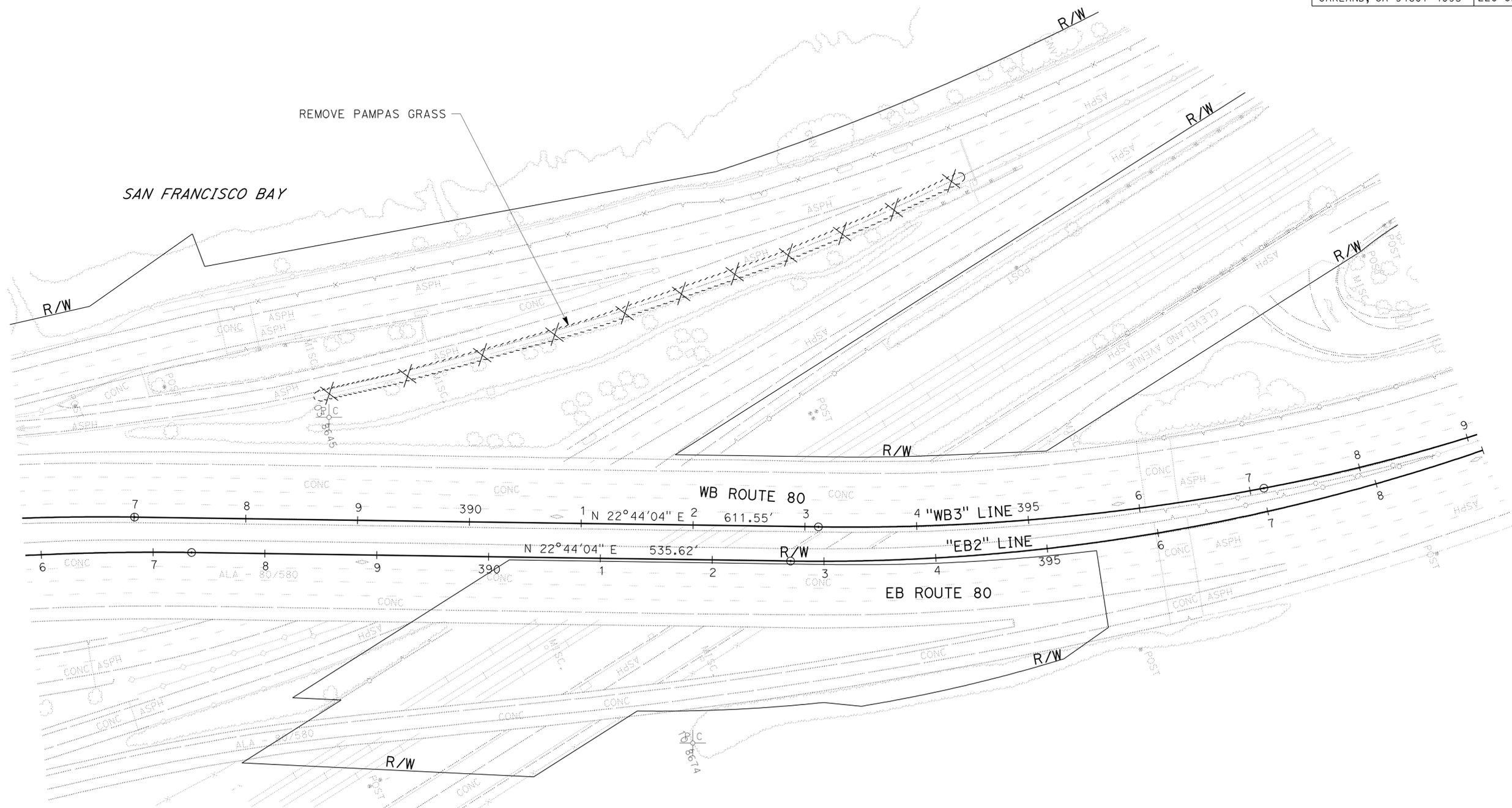
| | | | | | |
|------|---------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala, CC | 80 | 2.3/8.0, 0.0/13.1 | 212C | 319 |

4-9-12
 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.

KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095

ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612



ALBANY

PLANT REMOVAL PLAN
 SCALE: 1" = 50'

3 ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

PR-3

LAST REVISION DATE PLOTTED => 17-SEP-2012 09-12-12 TIME PLOTTED => 14:47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - SENIOR LANDSCAPE ARCHITECT
 RANDAL DURRENBERGER
 SHAWN RAINEY
 STEVEN ARAGO
 REVISOR BY
 DATE REVISED
 9/12/12
 SAR

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEER AT THE DISTRICT OFFICE.
 - REMOVE AND DISPOSE OF ALL EXISTING LATER LINES NOT RE-USED FOR RELOCATED ROTOR HEADS.
 - CONNECT RELOCATED SPRINKLER HEADS TO NEW LATERAL LINES AND TO EXISTING VALVES.

3

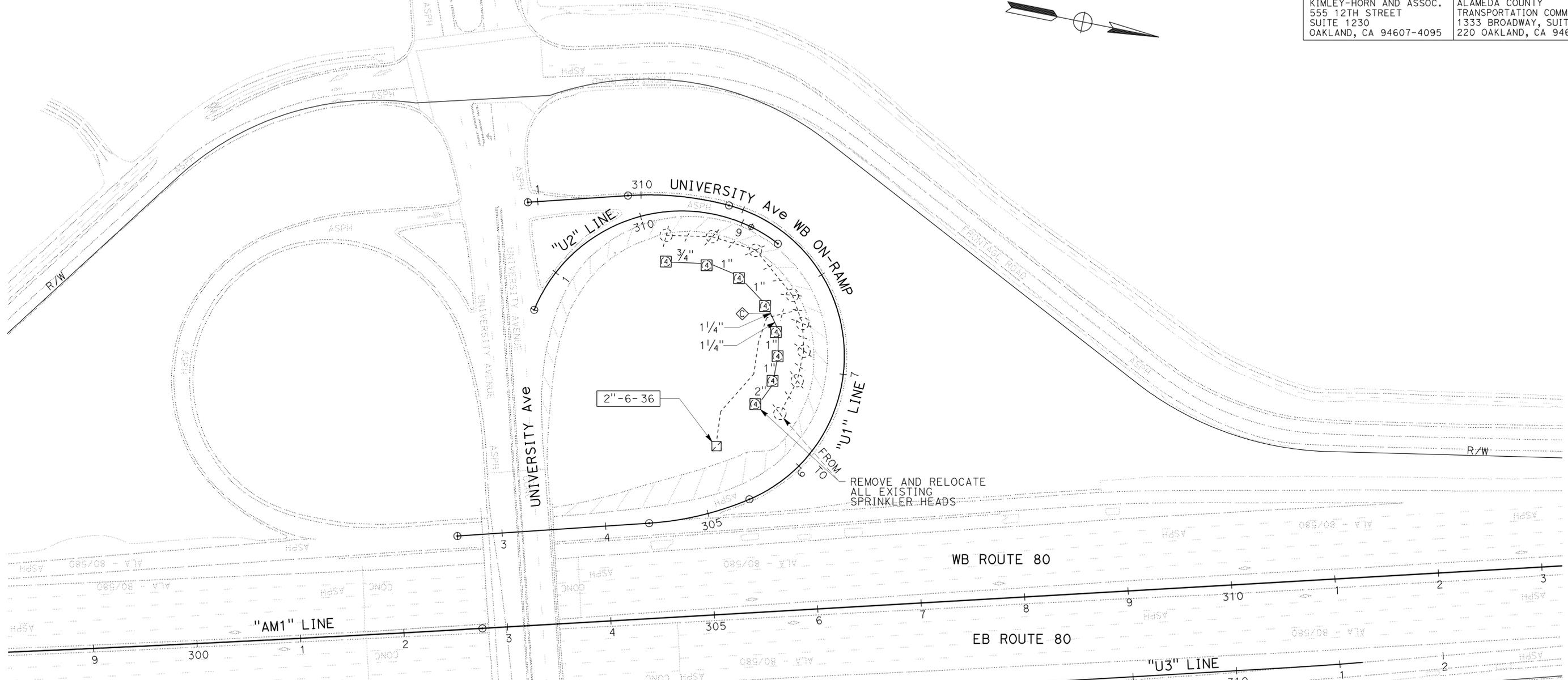
| | | | | | |
|------|---------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala, CC | 80 | 2.3/8.0, 0.0/13.1 | 212G | 319 |

LICENSED LANDSCAPE ARCHITECT
 4-9-12
 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.

KIMLEY-HORN AND ASSOC.
 555 12TH STREET
 SUITE 1230
 OAKLAND, CA 94607-4095

ALAMEDA COUNTY
 TRANSPORTATION COMMISSION
 1333 BROADWAY, SUITE
 220 OAKLAND, CA 94612



| SYMBOL | TYPE | DESCRIPTION | SPRAY PATTERN | OPERATING PRESSURE (PSI) | PLUS/MINUS 5% | | | | MATERIAL | NOZZLE SIZE (IN) | INLET CONNECTION (NPT IN) | POSITIVE-LOCKING ADJ ARC STOP (1) | BACKSPASH PREVENTER | DIFFUSER PIN | DISTANCE CONTROL FLAP | ADJ DISCHARGE | RISER | | | | REMARKS | | | | |
|--------|------|-------------|---------------|--------------------------|---------------|-----|-------------|------------|----------|------------------|---------------------------|-----------------------------------|---------------------|--------------|-----------------------|---------------|-------|----------|------------|--------------------|---------|----------------------------|---------------|-------------|--------------------------|
| | | | | | DISCHARGE | | RADIUS (FT) | W X L (FT) | | | | | | | | | TYPE | MATERIAL | | SWING JOINT (TYPE) | | SPRINKLER PROTECTOR (TYPE) | | | |
| | | | | | GPM | GPH | | | | | | | | | | | | PLASTIC | GALVANIZED | | | | SIZE (IPS IN) | HEIGHT (IN) | |
| 4 | A4 | SIDE IMPACT | P | 40 | 4.4 | --- | 43 | --- | B/B | 5/32 | 1 | --- | X | -- | X | -- | VI | X | --- | 1 | -- | --- | -- | --- | POP-UP HEIGHT 2 5/6" (2) |

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-2

3 APPROVED FOR IRRIGATION WORK ONLY **ADDED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012**

| | | | | | | | | | | | | |
|---|-----|----------|------------|--------------|---------------|---------------|------------------------|------------|----------------------------------|---------------------|--|---|
| x | DCC | 10-13-11 | REVISED BY | DATE REVISED | DANIEL CARLEY | KAREN GEMMILL | CALCULATED-DESIGNED BY | CHECKED BY | CONSULTANT FUNCTIONAL SUPERVISOR | RANDAL DURRENBERGER | STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION |  |
| | | | | | | | | | | | | |
| x | | | | | | | | | | | | |
| x | | | | | | | | | | | | |
| x | | | | | | | | | | | | |

GENERAL NOTES

- ALL PULL BOXES NOT TO BECOME PART OF THE PERMANENT SYSTEM SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- ALL EXISTING EQUIPMENT SHOWN ON THE PLAN SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- NEW PULL BOXES SHALL BE No. 5 UNLESS OTHERWISE NOTED. SEE STD PLAN NSP ES-8A AND NSP ES-8B FOR PULL BOX INSTALLATION DETAILS.
- SEE E-56 FOR No. 9 PULL BOX INSTALLATION DETAILS IN EXISTING CONCRETE BARRIER.
- MULTIPLE CONDUIT CROSSING A ROADWAY SHALL BE INSTALLED IN A SINGLE DIRECTIONAL DRILLING OPERATION.
- ALL STEP-UP/STEP-DOWN TRANSFORMER SYSTEMS MUST HAVE A DISCONNECT WITHIN SIGHT, OR IF IN A REMOTE LOCATION, THE TRANSFORMER MUST BE MARKED/LABELED WITH THE LOCATION OF THE DISCONNECT PER 2011 NEC 450.14 (pg 352). SEE E-67 FOR MORE DETAIL.
- INSTALLATION OF VASS, ATM, AND IDB SIGNS AND STRUCTURES NOT PART OF TRAFFIC OPERATION SYSTEM BID ITEMS. ATTENTION DIRECTED TO L-1 THROUGH L-60 FOR SIGN STRUCTURE AND SIGN INSTALLATION INFORMATION.
- NO ABOVE GROUND ELECTRICAL WORK SHALL BE PERFORMED ON ANY SYSTEM WITHIN THE PROJECT SITE UNTIL ALL CONTRACTOR-FURNISHED MATERIALS FOR THAT INDIVIDUAL SYSTEM HAVE BEEN TESTED AND DELIVERED TO THE CONTRACTOR.
- THE CLEARANCE BETWEEN THE BOTTOM OF THE LOWEST CIRCUIT BREAKER AND THE BOTTOM OF THE SERVICE EQUIPMENT ENCLOSURE FOR A TYPE III-A SERIES SHALL BE 24 INCHES MINIMUM.
- AT LEAST THREE WORKING DAYS PRIOR TO PERFORMING ANY WORK ON EACH EXISTING SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE DEPARTMENT OF TRANSPORTATION, ELECTRICAL AND SIGNAL MAINTENANCE SUPERINTENDENT, PHONE (415) 330-6500.
- SLEEVE NUTS SHALL BE USED ON TYPE 1-B STANDARD. FOUNDATIONS FOR TYPE 1-B STANDARDS SHALL CONFORM TO THE DETAILS ON STANDARD PLANN ES-7B, "ANCHOR BOLTS WITH SLEEVE NUTS", EXCEPT THAT THE BOTTOM OF THE BASE PLATE SHALL BE FLUSH WITH THE FINISHED GRADE.

PROJECT NOTES

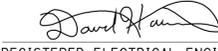
- INSTALL CABINET MINIMUM 30' FROM EDGE OF TRAVELED WAY OR 4' MINIMUM BEHIND FACE OF MBGR. SEE RSP ES-3C FOR FOUNDATION DETAILS.
- INSTALL STATE-FURNISHED SIGN CONTROLLER AND CABINET ASSEMBLY FOR VARIABLE ADVISORY SPEED SIGNS.
- COORDINATE WITH TELEPHONE COMPANY TO ADD T1 SERVICE TO EXISTING TELEPHONE SERVICE. ADD SINE AND ROUTER TO EXISTING TELEPHONE DEMARCATION CABINET AND INSTALL CABLING TO CONTROLLER CABINET. COORDINATE WITH TELEPHONE COMPANY FOR LOCATION OF SINE AND ROUTER. FINAL LOCATION OF SINE AND ROUTER SHALL BE APPROVED BY THE ENGINEER. SEE SHEET E-60 FOR FURTHER DETAIL.
- COORDINATE WITH PG&E FOR ELECTRICAL CONNECTION.
- INSTALL STATE-FURNISHED SIGN CONTROLLER AND CABINET ASSEMBLY FOR VARIABLE MESSAGE SIGN.
- INSTALL STATE-FURNISHED SIGN CONTROLLER AND CABINET ASSEMBLY FOR LANE USE SIGNS AND VARIABLE ADVISORY SPEED SIGNS.
- INSTALL TYPE 1-B SIGNAL FOUNDATION FOR FUTURE USE. INSTALL FOUNDATION 3' FROM EDGE OF SHOULDER AND 1' DOWNSTREAM OF LIMIT LINE. INSTALL RAMP METER DETECTOR LOOPS PER DETAIL "RM", E-57.
- INSTALL STATE-FURNISHED MODEL 2070L CONTROLLER ASSEMBLY AT MINIMUM 30' FROM EDGE OF TRAVELED WAY AND/OR 4' MINIMUM BEHIND FACE OF MBGR. SEE RSP ES-3C FOR FOUNDATION DETAILS. INSTALL NEW GPRS MODEM AND ANTENNA, SEE E-59 FOR INSTALLATION DETAIL.
- INSTALL POWER AND COMMUNICATION CABLES TO VASS SIGN. SEE SHEET SD-10 FOR SIGN INSTALLATION DETAILS.
- INSTALL POWER AND COMMUNICATION CABLE TO STATE-FURNISHED IDB SIGN.
- INSTALL TYPE 1-B STANDARD WITH "METER-ON" SIGN. SEE E-58 FOR INSTALLATION DETAIL.
- INSTALL GPRS WIRELESS RADIO MODEM AND ANTENNA IN CABINET. SEE E-59 FOR INSTALLATION DETAILS.

- INSTALL 25 KVA STEP-DOWN (480 V-120/240 V) TRANSFORMER, ENCLOSURE, AND FOUNDATION/PAD PER E-67 AND E-68. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- INSTALL 25 KVA STEP-UP (240 V-600 V) TRANSFORMER, ENCLOSURE, AND FOUNDATION/PAD PER E-67 AND E-68. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- INSTALL 25 KVA STEP-UP (240 V-480 V) TRANSFORMER, ENCLOSURE, AND FOUNDATION/PAD PER E-67 AND E-68. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- INSTALL STATE-FURNISHED IDB SIGN CONTROLLER ASSEMBLY AND STATE-FURNISHED VARIABLE ADVISORY SPEED SIGN CONTROLLER AND CABINET ASSEMBLY.
- REMOVE AND SALVAGE EXISTING SERVICE CABINET.
- INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE FOR DISTRIBUTION CABINET. SEE E-62 FOR ENCLOSURE AND BASE DETAILS. REFER TO DISTRIBUTION CABINET WIRING DIAGRAM ON E-62 AND PROVIDE ALL EQUIPMENT ITEMS INDICATED ON PLANS. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- INSTALL STATE-FURNISHED SIGN CONTROLLER AND CABINET ASSEMBLY FOR INFORMATION DISPLAY BOARD CONTROLLER.
- INSTALL MODEL 334T CABINET AT MINIMUM 30' FROM EDGE OF TRAVELED WAY OR 4' MINIMUM BEHIND FACE OF MBGR. SEE RSP ES-3C FOR FOUNDATION DETAIL.
- INSTALL TYPE CCTV 40 POLE 30' FROM EDGE OF TRAVELED WAY OR 4' MINIMUM BEHIND FACE OF MBGR. SEE RSP ES-16A FOR DETAILS. INSTALL PTZ CAMERA ON POLE. SEE DETAIL ON E-55 FOR CAMERA MOUNTING.
- INSTALL CAMERA CONTROL UNIT, VIDEO ENCODER UNIT, AND SINE IN CABINET. SEE E-53 AND E-60 FOR DETAILS.
- INSTALL 25 A, 120 V, 1P CIRCUIT BREAKER.
- INSTALL CONDUIT, PULL BOX, AND RISER AS REQUIRED BY PG&E. FOR PULL BOX INSTALLATION SEE E-61. INSTALL CONDUIT FROM SERVICE POINT TO PULL BOX PER PG&E REQUIREMENTS. THE CONTRACTOR SHALL CONTACT PG&E FOR SERVICE CONDUCTOR CONNECTION TO SERVICE POINT.
- INSTALL STATE-FURNISHED 2070L CONTROLLER IN CONTRACTOR FURNISHED MODEL 334 CABINET FOR TRAFFIC MONITORING SYSTEM.
- COIL 50' OF SIGNAL CONDUCTORS IN PULL BOX FOR FUTURE RAMP METER SIGNAL.
- INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH "TIME OF USE" METER. COORDINATE WITH PG&E FOR SERVICE CONDUCTOR CONNECTION TO SERVICE POINT. SEE E-62 FOR ENCLOSURE AND BASE DETAILS, AND SERVICE CABINET WIRING DIAGRAM. PROVIDE ALL EQUIPMENT ITEMS INDICATED ON PLANS. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH "TIME OF USE" METER. COORDINATE WITH PG&E FOR SERVICE CONDUCTOR CONNECTION TO SERVICE POINT. SEE RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. REFER TO E-66, AND PROVIDE ALL EQUIPMENT ITEMS INDICATED ON PLANS. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- NOT ALL EXISTING EQUIPMENT CONNECTED MAY BE SHOWN.
- INSTALL TYPE III-D SERVICE ENCLOSURE PER ES-2G. THE CONTRACTOR TO COORDINATE WITH PG&E FOR SERVICE CONDUCTOR CONNECTION TO SERVICE POINT. PROVIDE ALL EQUIPMENT ITEMS INDICATED ON PLANS.
- INSTALL TYPE 1-B STANDARD WITH TWO "METER-ON" SIGNS. SEE E-58 FOR INSTALLATION DETAIL.
- INSTALL NEW 18-4-100 (SEE RSP ES-7F) SIGNAL STANDARD WITH 30'-0" SIGNAL MAST ARM WITH MINIMUM 2'-3" BETWEEN FACE OF MBGR AND EDGE OF FOUNDATION. SEE E-58 FOR SIGNAL HEAD INSTALLATION DETAILS.
- INSTALL 25 KVA STEP-DOWN (600 V-120/240 V) TRANSFORMER, ENCLOSURE, AND FOUNDATION/PAD PER E-67 AND E-68. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS3-2 ON SHEET C-1 FOR NUMBER OF STATE-FURNISHED SIGNS.

ELECTRICAL INDEX



| DRAWING No. | TITLE |
|--------------|----------------------------|
| E-1 | ELECTRICAL INDEX AND NOTES |
| E-2 TO E-52 | TRAFFIC OPERATIONS SYSTEM |
| E-53 TO E-68 | ELECTRICAL DETAILS |

| | | | | | |
|--|--------|-------|--|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala,CC | 80 | 2.3/8.0, 0.0/13.1 | 213 | 319 |
|  | | | 10/14/11 | | |
| REGISTERED ELECTRICAL ENGINEER | | | DATE | | |
| 4-9-12 | | | PLANS APPROVAL DATE | | |
| <small>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.</small> | | | | | |
| KIMLEY-HORN AND ASSOC. 555 12TH STREET SUITE 1230 OAKLAND, CA 94607-4095 | | | ALAMEDA COUNTY TRANSPORTATION COMMISSION 1333 BROADWAY, SUITE 220 OAKLAND, CA 94612 | | |



- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS6-2 ON SHEET C-1 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS8-1 ON SHEET C-2 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS9-2 ON SHEET C-2 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS12-1 ON SHEET C-3 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED IDB SIGN AND STATE-FURNISHED VASS SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS13-2 ON SHEET C-3 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS16-1 ON SHEET C-4 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS18-1 ON SHEET C-4 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS21-1 ON SHEET C-5 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS23-1 ON SHEET C-5 FOR NUMBER OF STATE-FURNISHED SIGNS.
- INSTALL AND ATTACH 2-3" GRS CONDUITS TO SIGN STRUCTURE PER E-65. INSTALL POWER AND COMMUNICATION CABLES TO STATE-FURNISHED SIGNS. SEE DETAIL SS25-1 ON SHEET C-6 FOR NUMBER OF STATE-FURNISHED SIGNS.
- SEE DETAIL "RM", E-57 FOR RAMP METER DETECTOR INSTALLATION.
- EXISTING MODEL 170 CONTROLLER AND 334 CABINET. REMOVE SALVAGE AND REPLACE EXISTING SENSOR UNITS, WITH LONG LOOP LEAD-IN DETECTOR SENSOR UNITS.
- INSTALL ONE LONG LOOP LEAD-IN DETECTOR SENSOR UNIT FOR EACH LANE. MAKE ALL NECESSARY CONNECTIONS.
- ADD NEW CONDUCTORS TO RE-ROUTE EXISTING CIRCUITS TO NEW SERVICE EQUIPMENT ENCLOSURE. SIZE OF CONDUCTORS SHALL MATCH EXISTING CONDUCTOR SIZES.
- EXISTING MODEL 170 CONTROLLER AND 334 CABINET. REMOVE EXISTING dlc AND CONNECT NEW DLC AS REQUIRED.
- INSTALL 10 KVA STEP-DOWN (480 V-120/240 V) TRANSFORMER, ENCLOSURE, AND FOUNDATION/PAD PER E-67 AND E-68. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.
- INSTALL 10 KVA STEP-UP (240 V-480 V) TRANSFORMER, ENCLOSURE, AND FOUNDATION/PAD PER E-67 AND E-68. INSTALL WITH 30' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF ENCLOSURE.

ELECTRICAL INDEX AND NOTES

E-1



REVISED PER ADDENDUM No. 3 DATED SEPTEMBER 17, 2012

