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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN FRESNO COUNTY
IN AND NEAR KINGSBURG AND SELMA
FROM ROUTE 99/201 SEPARATION
TO NORTH OF FLORAL AVENUE UNDERCROSSING

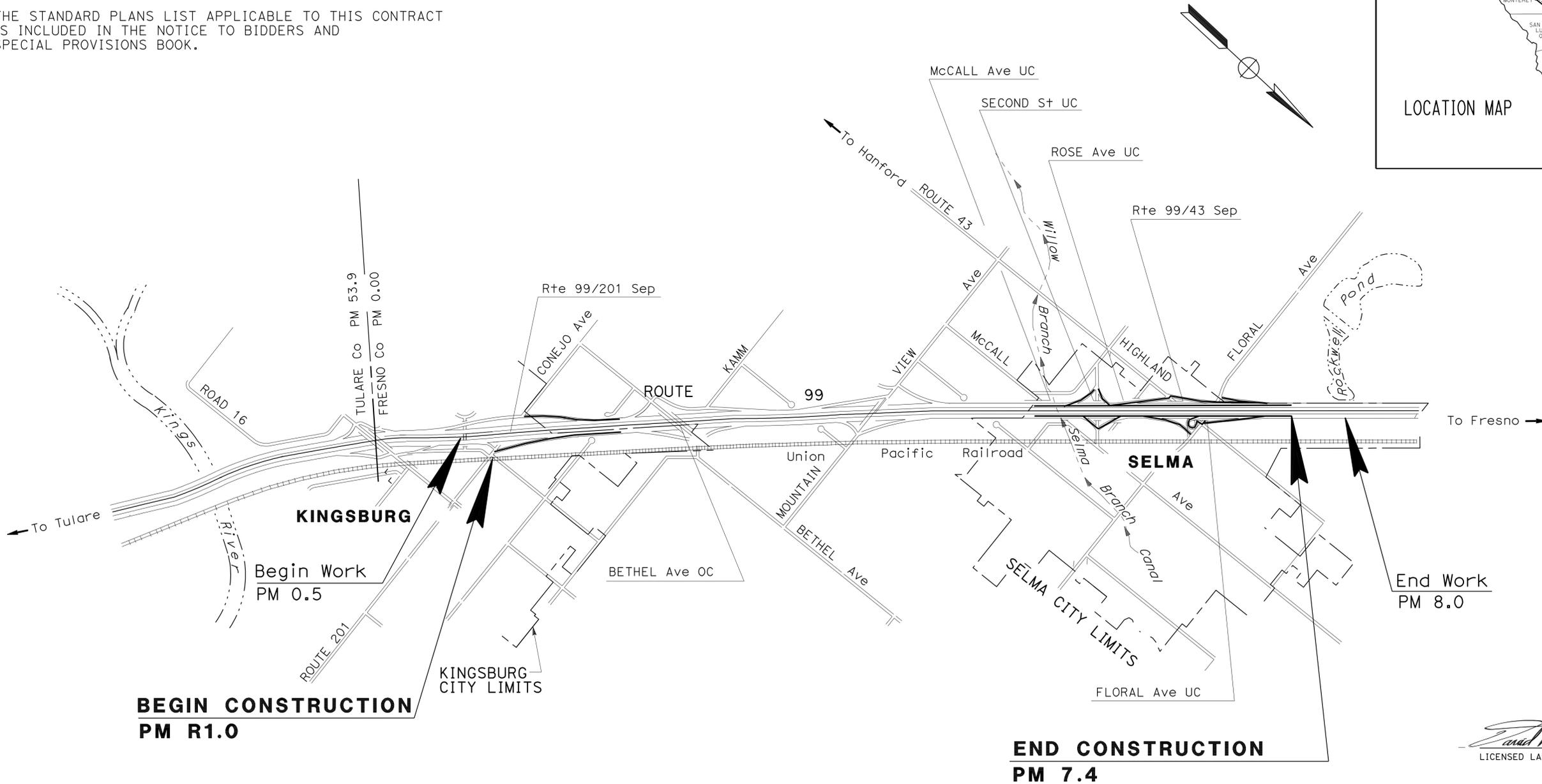
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	1	58





LOCATION MAP



BEGIN CONSTRUCTION
PM R1.0

END CONSTRUCTION
PM 7.4

NO SCALE



LICENSED LANDSCAPE ARCHITECT

LICENSED LANDSCAPE ARCHITECT
 DAVID R. MARTIN #50393
 Signature
 3/31/09
 Date
 10/16/08
 STATE OF CALIFORNIA

January 26, 2009
 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.

PROJECT MANAGER
JIM BANE
 SENIOR LANDSCAPE ARCHITECT
ELBERT COX

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	2	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
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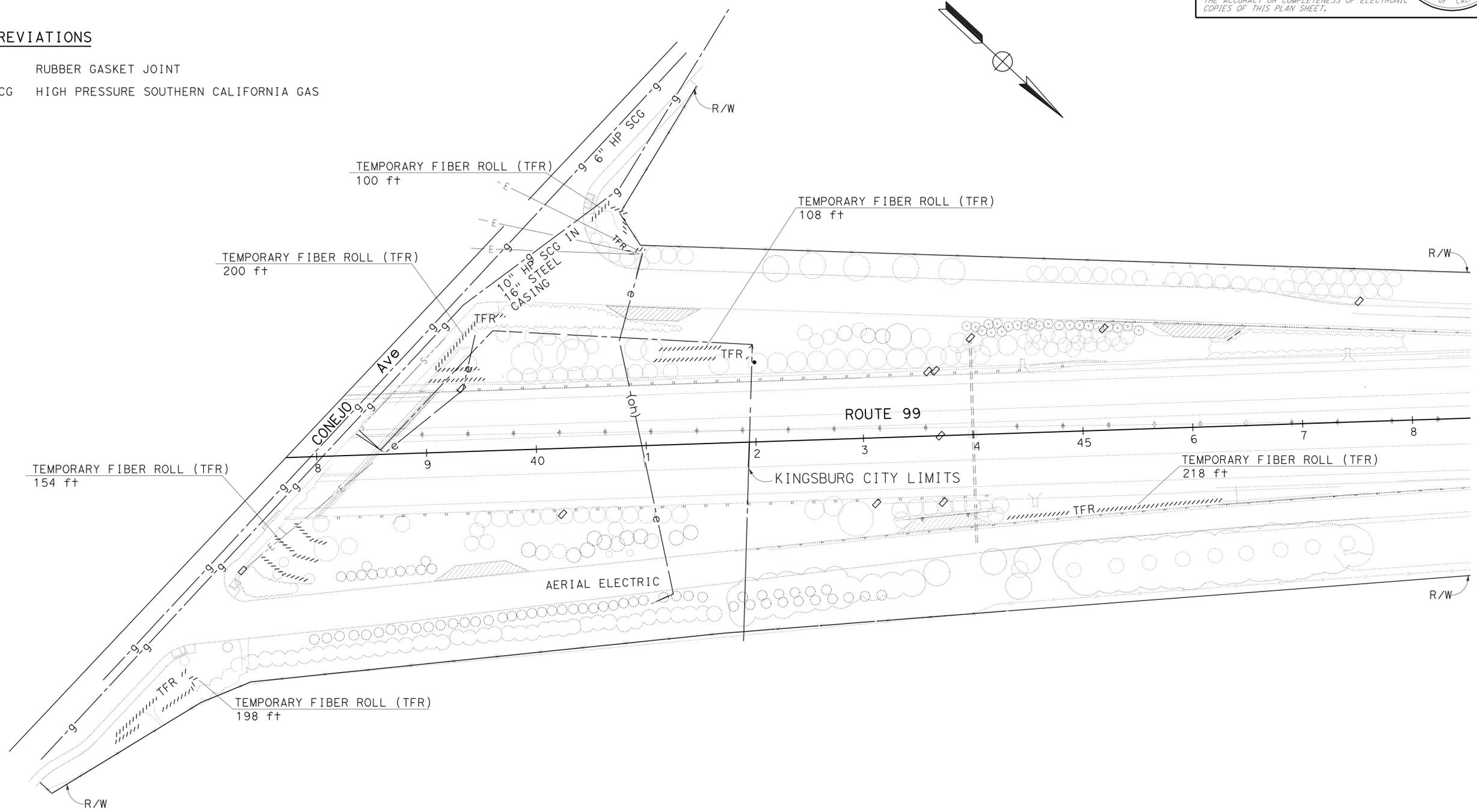
LEGEND

-  TFR TEMPORARY FIBER ROLL (TFR)
-  TEMPORARY DRAINAGE INLET PROTECTION (TYPE 5)

ABBREVIATIONS

- RGJ RUBBER GASKET JOINT
- HP SCG HIGH PRESSURE SOUTHERN CALIFORNIA GAS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT **ELBERT COX**
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISED



NOTES:

1. THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.
2. THIS PLAN ACCURATE FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY.

SCALE: 1"=50'

TEMPORARY WATER POLLUTION CONTROL AND UTILITY PLAN

WPC-1

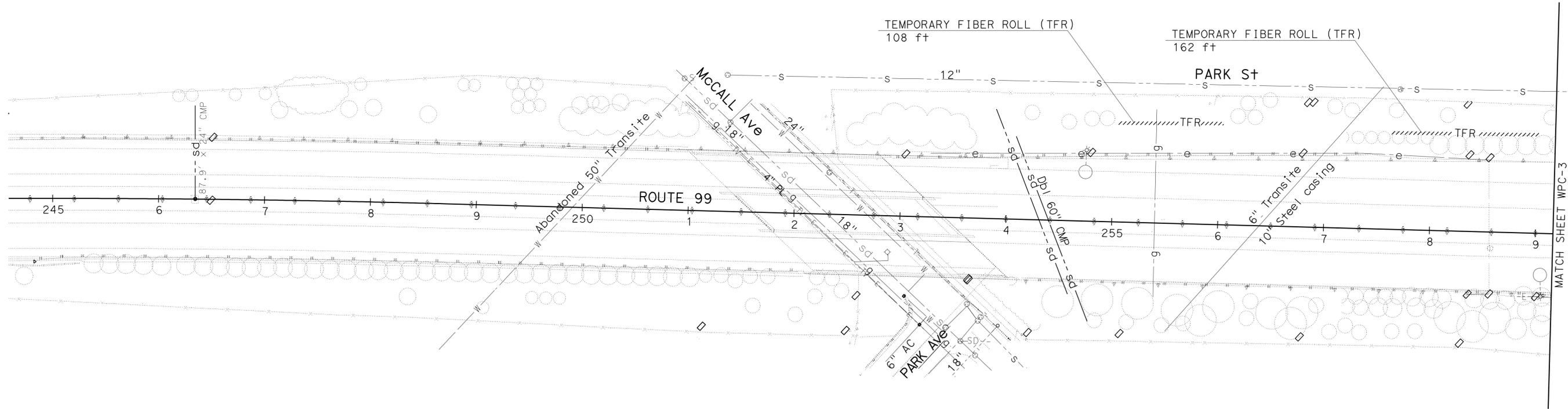


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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	REVISOR
Et <i>Caltrans</i> LANDSCAPE ARCHITECTURE	ELBERT COX	CHECKED BY	DATE
		DAVID MARTIN	DAVID MARTIN
		KEVIN GALLO	KEVIN GALLO



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TEMPORARY WATER POLLUTION CONTROL AND UTILITY PLAN

WPC-2

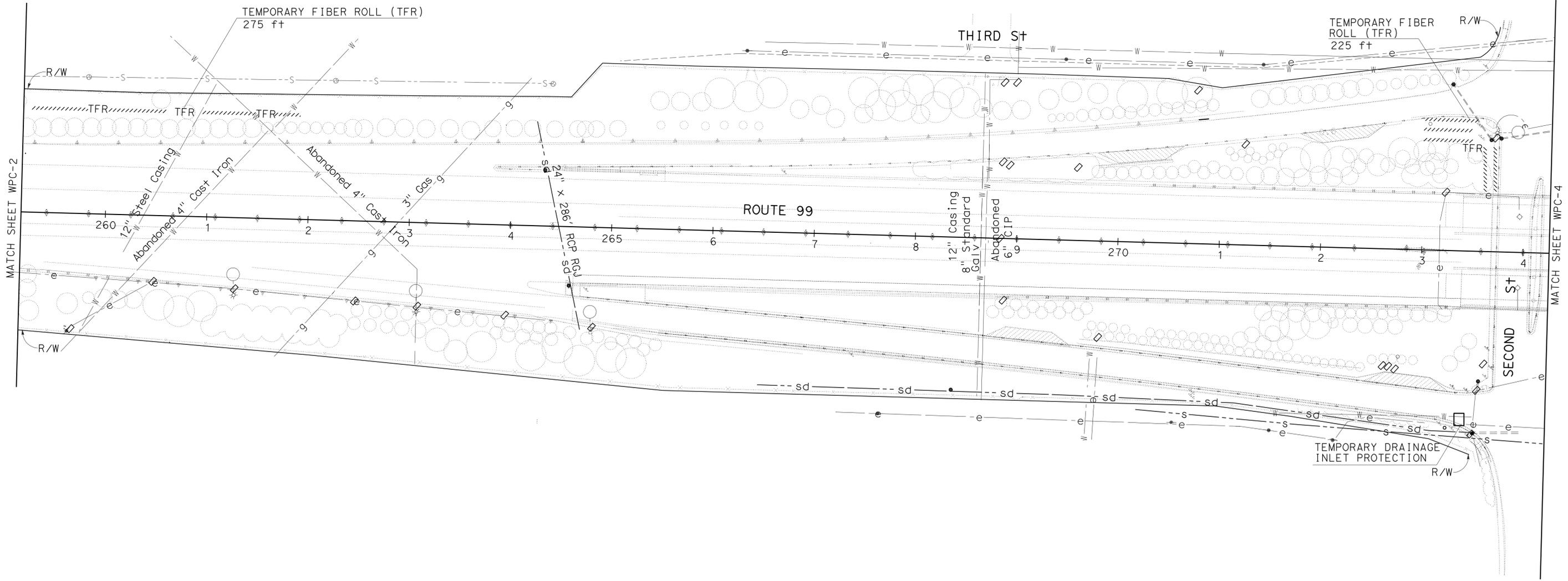
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	4	58


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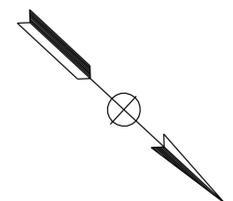
TEMPORARY WATER POLLUTION CONTROL AND UTILITY PLAN
WPC-3

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06	Fre	99	R1.0/7.4	5	58

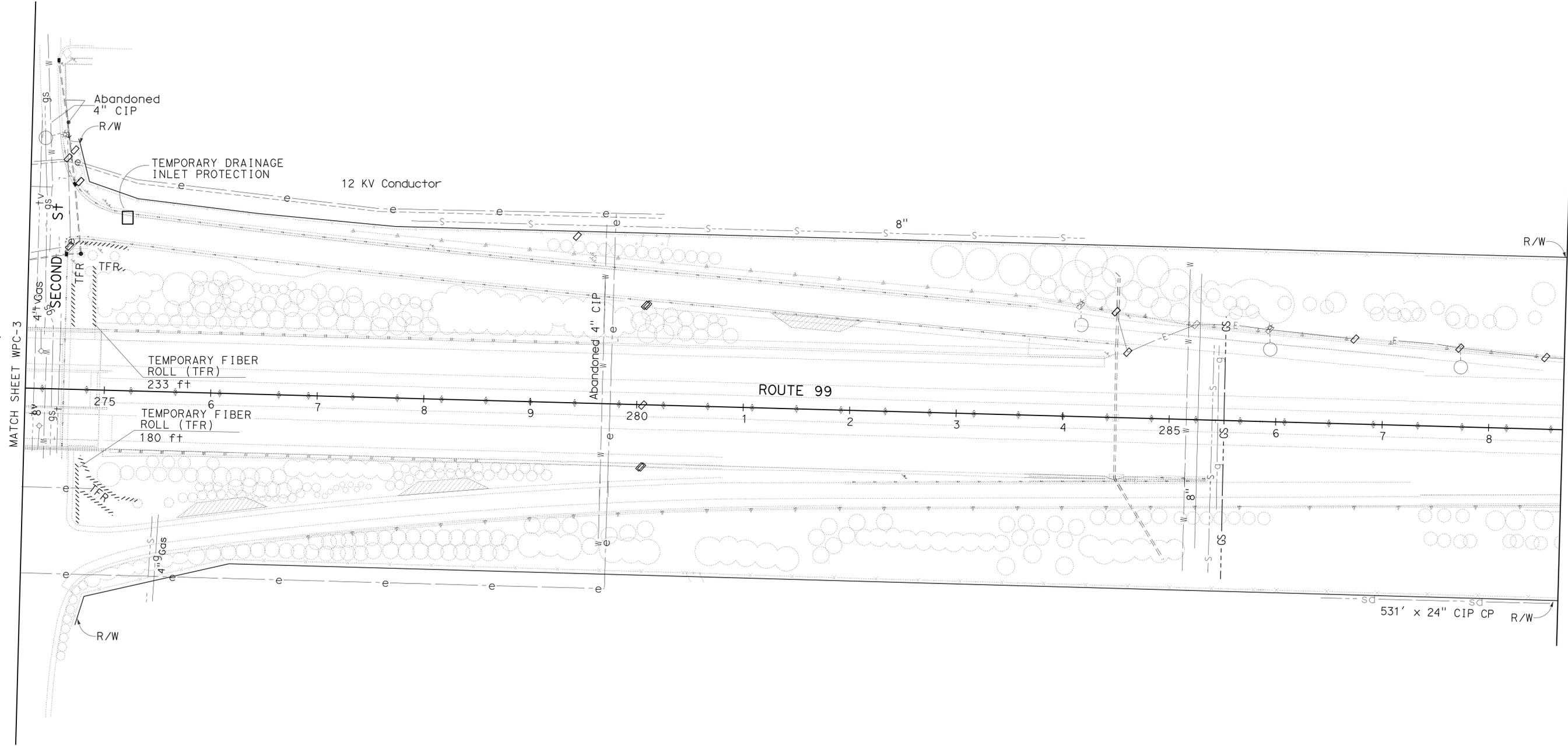

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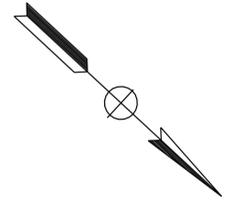
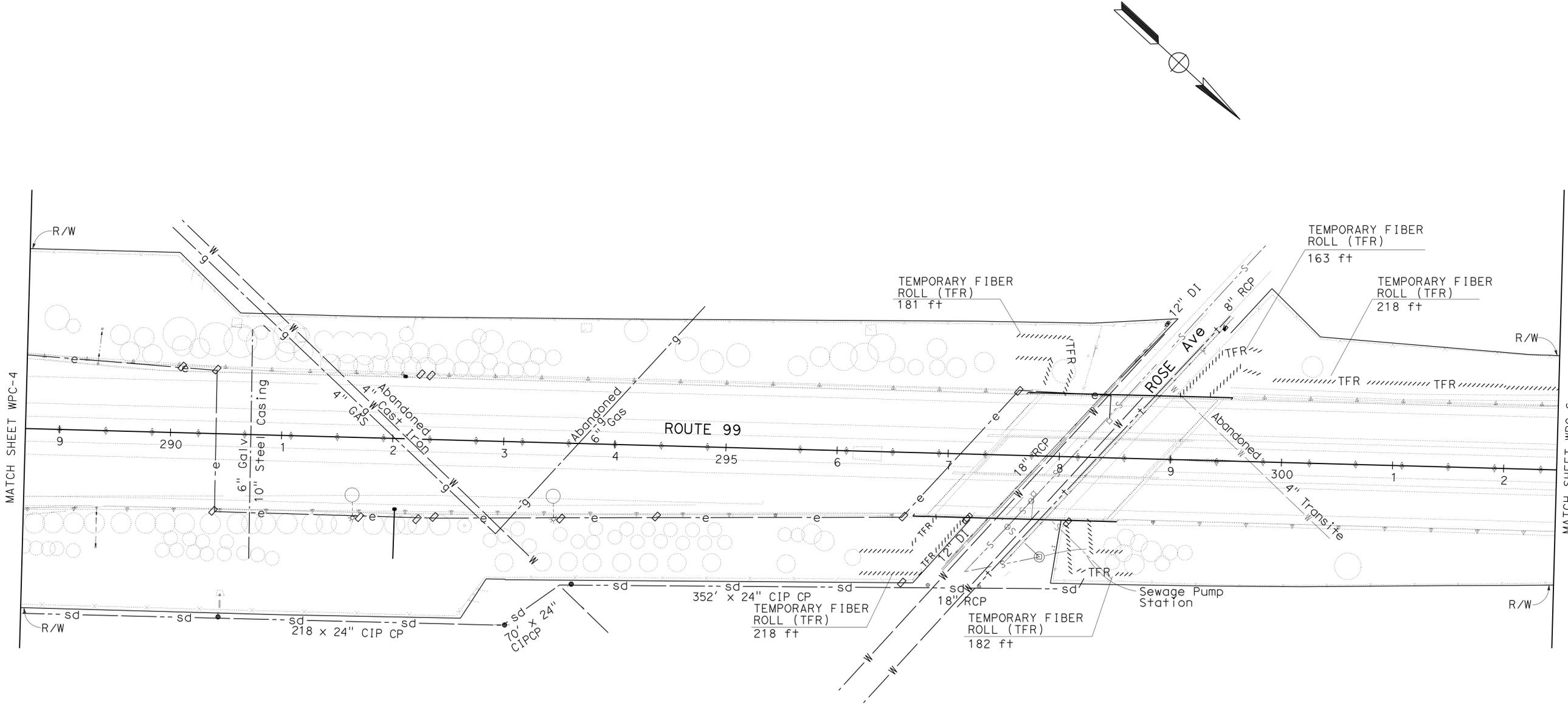
WPC-4

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LICENSED LANDSCAPE ARCHITECT
DAVID R. MARTIN
STRUCTURE
03/31/09
RENEWAL DATE
10/16/08
DATE
STATE OF CALIFORNIA

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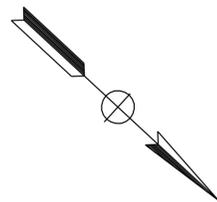
WPC-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	7	58

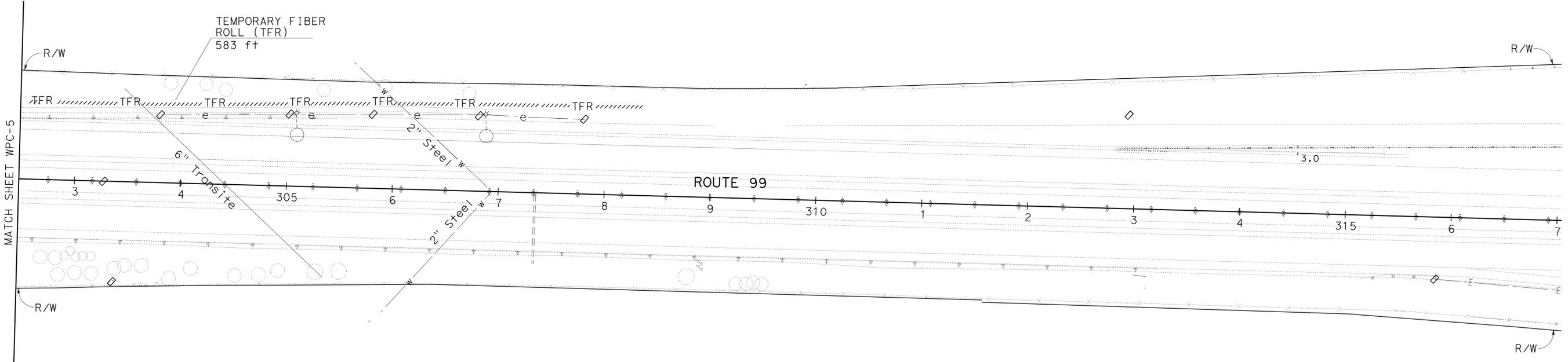

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ELBERT COX
 CALCULATED-DESIGNED BY
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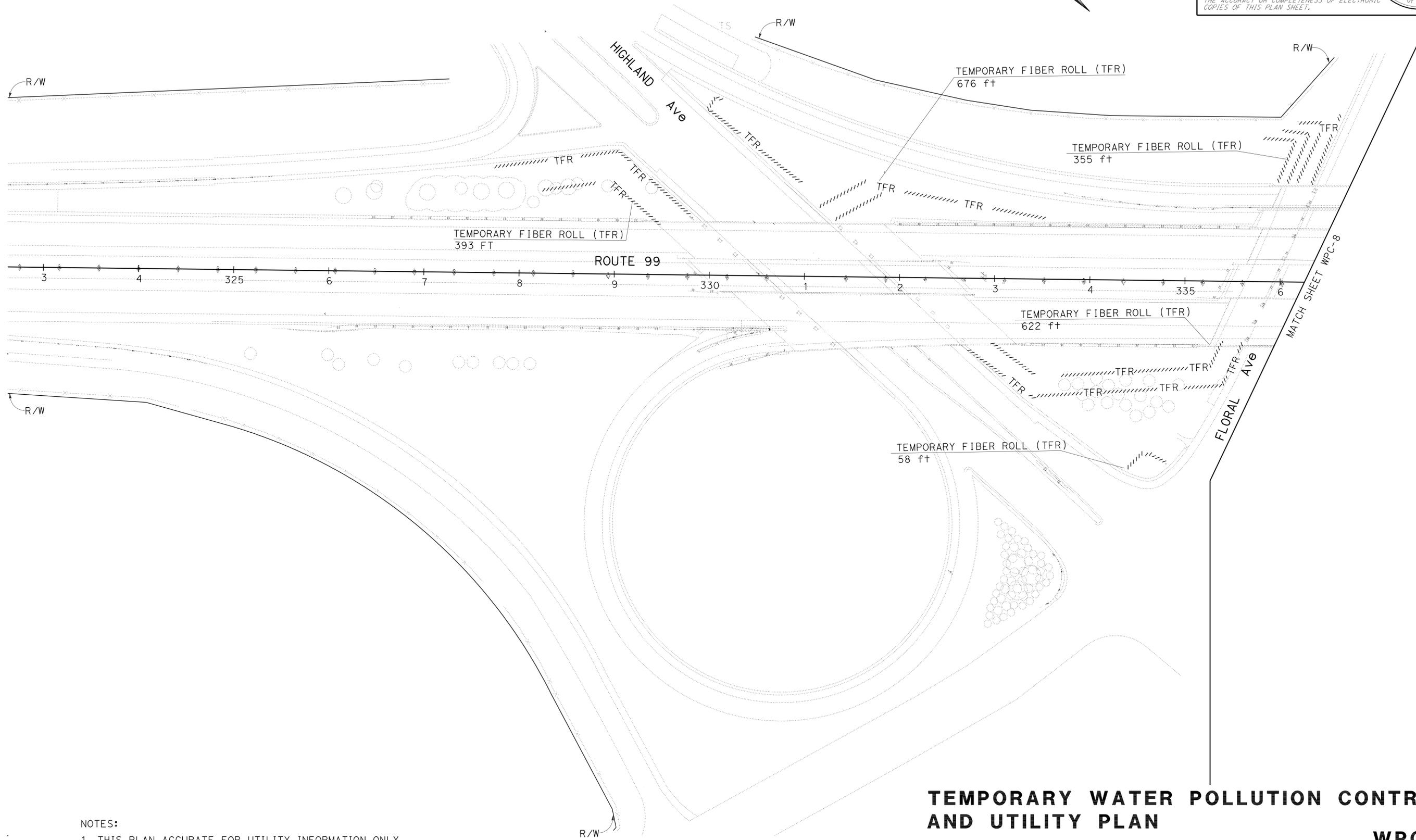
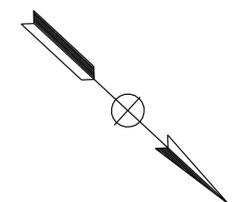
WPC-6

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TEMPORARY WATER POLLUTION CONTROL AND UTILITY PLAN

WPC-7

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NOTE: STATIONS SHOWN FOR THIS PROJECT ARE FOR CONSTRUCTION ONLY.

MAINTENANCE VEHICLE PULLOUT

PLAN SHEET	STATION	ROADSIDE PAVING (Misc AREA)	REMOVE AC DIKE	PLACE HMA DIKE (TYPE E)	HMA (N)	
		SQ YD	LF	LF	(Misc AREA) TON	DIKE (TYPE E) TON
PP-11	Route 99 339+10 Rt	113	86	76	17	2
	TOTAL	113	86	76	19	

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

TEMPORARY WATER POLLUTION CONTROL

SHEET	TEMPORARY FIBER ROLL	DRAIN INLET PROTECTION
	(LF)	(EA)
WPC-1	978	0
WPC-2	270	0
WPC-3	500	1
WPC-4	413	1
WPC-5	962	0
WPC-6	583	0
WPC-7	2,104	0
WPC-8	868	0
TOTAL	6,678	2

MULCH

SHEET	CY
PP-1	156
PP-2	0
PP-3	0
PP-4	0
PP-5	0
PP-6	27
PP-7	83
PP-8	106
PP-9	0
PP-10	127
PP-11	376
BASIN MULCH	22
TOTAL	897

WILDFLOWER SEEDING

SHEET	SQYD
PP-1	402
PP-2	7,191
PP-3	6,956
PP-4	3,536
PP-5 TO PP-11	0
TOTAL	18,085

LOCATIONS OF MAINTAIN EXISTING IRRIGATION

STATION	LOCATION
37+70 TO 48+00	Rt & Lt
244+60 TO 314+00	Rt & Lt
324+00 TO 350+20	Rt & Lt

NOTE: EXCLUDE 323+00 TO 329+00 Lt OF SB HIGHLAND ON-RAMP TO SB ROW (NON-RICS STAND-ALONE CONTROLLER & VALVE CIRCUITS MAINTAINED BY OTHERS)

SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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ELBERT COX
 CALCULATED-DESIGNED BY
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 DAVID MARTIN
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ABBREVIATIONS:

AMEND — amendment	Oz — ounce
B & B — balled and burlapped	Pkt — packet
CF — cubic feet	Pvmt — pavement
CY — cubic yard	PLT ESTB — plant establishment
Dia — diameter	LB — pound(s)
EA — each	R/W — right of way
Ft — foot/feet	SQFT — square feet
Max — maximum	SQYD — square yard
Min — minimum	SF — state furnished
NCN — no common name	TRVD — traveled
No. — number	

LEGEND

MULCH AREA		MAINTAIN EXISTING PLANTED AREAS	
EXISTING PLANTS		ROADSIDE CLEARING	
MAINTENANCE VEHICLE PULLOUT		WILDFLOWER SEEDING	

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06	Fre	99	R1.0/7.4	11	58

David R. Martin
 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE

3/31/09
 10/16/08
 DATE

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PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	IRON SULFATE ①	SOIL AMEND ①	COMMERCIAL FERTILIZER ①		BASIN MULCH	STAKING	PLANTING LIMITS							REMARKS
							Dia	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (Ft) FROM					ON CENTER (Ft)		
																TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH		EARTH DITCH	
A	1		CEANOTHUS 'JOYCE COULTER'	WILD LILAC	No. 1	15	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	10	8	8	8	10	④	SHRUB
	2		CERCIS OCCIDENTALIS	WESTERN REDBUD	No. 1	13	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	15	15	15	15	15	④	SHRUB
	3		CISTUS 'SUNSET'	SUNSET ROCKROSE	No. 1	91	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	6	6	6	6	6	6	SHRUB
	4		CISTUS 'SALVIIFOLIUS'	SAGELEAF ROCKROSE	No. 1	5	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	6	6	6	6	6	6	SHRUB
	5		CHILOPSIS LINEARIS 'BURGUNDY'	BURGUNDY DESERT WILLOW	No. 1	6	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	6	6	6	6	6	④	SHRUB
	6		GELSEMIUM SEMPERVIRENS	CAROLINA JESSAMINE	No. 1	20	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	—	—	—	10	—	④	VINE
	7		LANTANA MONTEVIDENSIS 'PURPLE'	PURPLE TRAILING LANTANA	No. 1	119	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	6	6	6	6	8	3	SHRUB
	8		LANTANA 'SPREADING SUNSHINE'	SPREADING YELLOW LANTANA	No. 1	34	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	8	6	6	6	8	6	SHRUB
	9		MYOPORUM PARVIFOLIUM 'PUTAH CREEK'	PUTAH CREEK MYOPORUM	No. 1	86	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	20	20	20	20	22	15	SHRUB
	10		ROSA MEIDILAND 'MEIVAHYN'	WHITE ICE MEIDILAND ROSE	No. 1	9	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	8	8	8	8	10	④	SHRUB
	11		ROSA MEIDILAND 'MEIPSIDUE'	RED FIRE MEIDILAND ROSE	No. 1	7	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	8	8	8	8	10	④	SHRUB
	12		ROSA BANKSIA 'LUTEA'	YELLOW LADY BANKS ROSE	No. 1	4	⑧	②	II	—	1/4 CF	1 Pkt	1/4 LB	1 CF	—	—	15	15	—	13	8	④	SHRUB
B	13		HETEROMELES ARBUTIFOLIA	TOYON	No. 5	18	⑧	②	II	—	1 CF	3 Pkt	3/8 LB	1 CF	—	—	15	15	10	10	12	④	SHRUB
	14		LAGERSTROMIA INDICA 'NATCHEZ'	WHITE CRAPE MYRTLE	No. 5	23	⑧	②	II	—	1 CF	3 Pkt	3/8 LB	1 CF	—	30	—	15	15	15	17	④	SHRUB
	15		LAGERSTROMIA INDICA 'PURPLE'	PURPLE CRAPE MYRTLE	No. 5	27	⑧	②	II	—	1 CF	3 Pkt	3/8 LB	1 CF	—	30	—	15	15	15	17	④	SHRUB
	16		NERIUM OLEANDER 'SINGLE PINK'	PINK OLEANDER	No. 5	7	⑧	②	II	—	1 CF	3 Pkt	3/8 LB	1 CF	—	—	12	12	10	10	12	④	SHRUB
	17		NERIUM OLEANDER 'RED'	RED OLEANDER	No. 5	9	⑧	②	II	—	1 CF	3 Pkt	3/8 LB	1 CF	—	—	12	12	10	10	12	④	SHRUB
	18		NERIUM OLEANDER 'WHITE SANDS'	WHITE SANDS OLEANDER	No. 5	5	⑧	②	II	—	1 CF	3 Pkt	3/8 LB	1 CF	—	—	12	12	10	10	12	④	SHRUB

APPLICABLE WHEN CIRCLED:

- | | |
|---|---------------------------------|
| ①- Quantities shown are "per plant" unless shown as SQFT or SQYD application rates. | ⑥- See detail |
| ②- Sufficient to receive root ball. | 7 - See Special Provisions. |
| 3 - Does not apply to mulch areas. | ⑧- Twice the Rootball Diameter. |
| ④- As shown on plans. | 9 - See Standard Detail. |
| 5 - Unless otherwise shown on plans. | |

NOTE:

Underlined portions of botanical name indicate abbreviations used on Planting Plans.

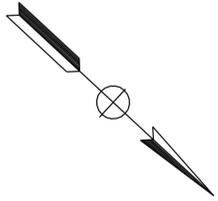
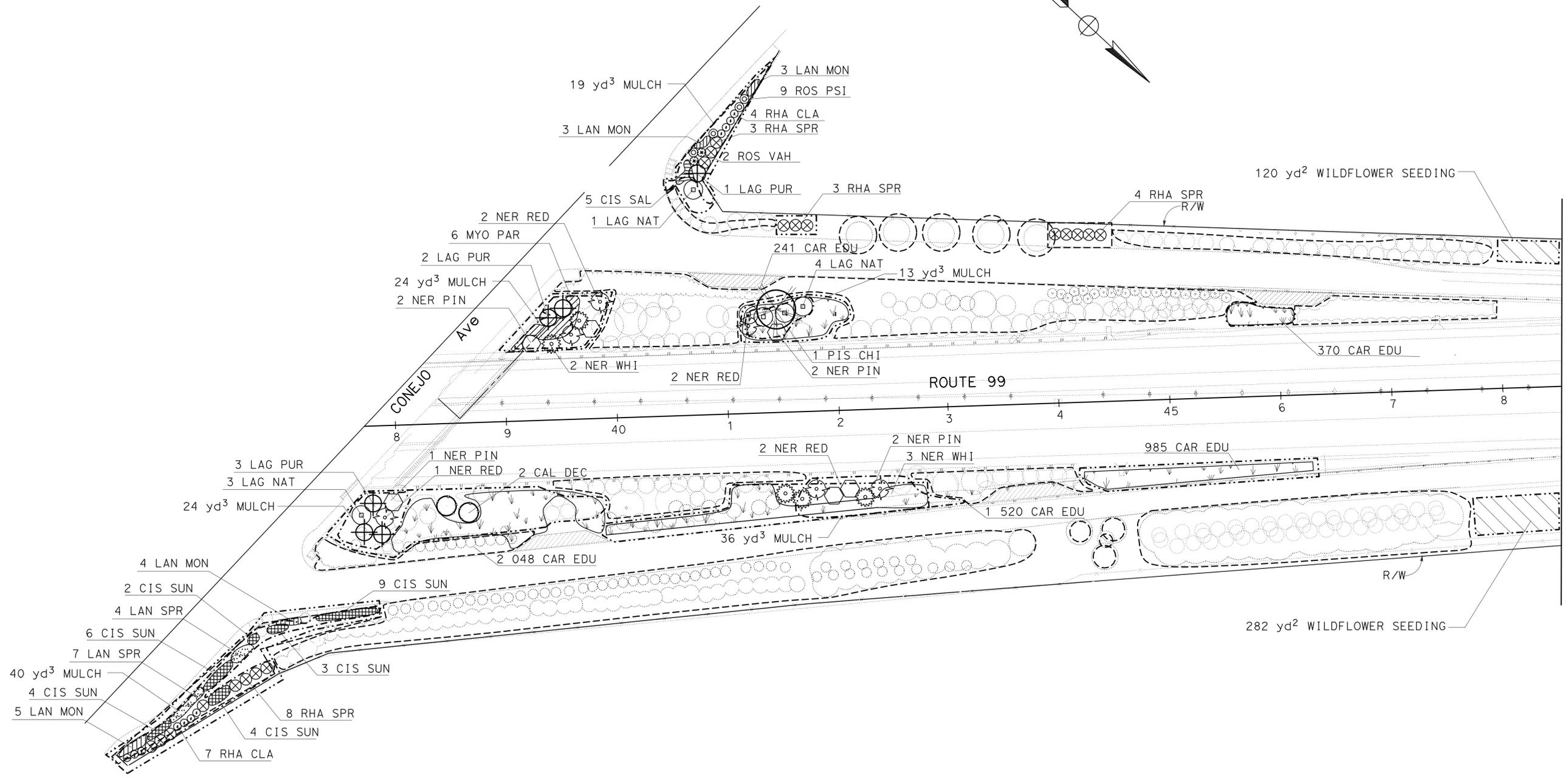
PLANT LIST PL-1

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 REVISOR BY
 DATE REVISOR
 DAVID MARTIN
 KEVIN GALLO



MATCH SHEET PP-2

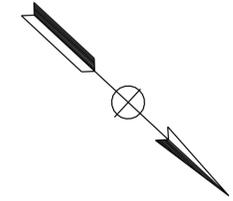
PLANTING PLAN
PP-1
 SCALE: 1"=50'

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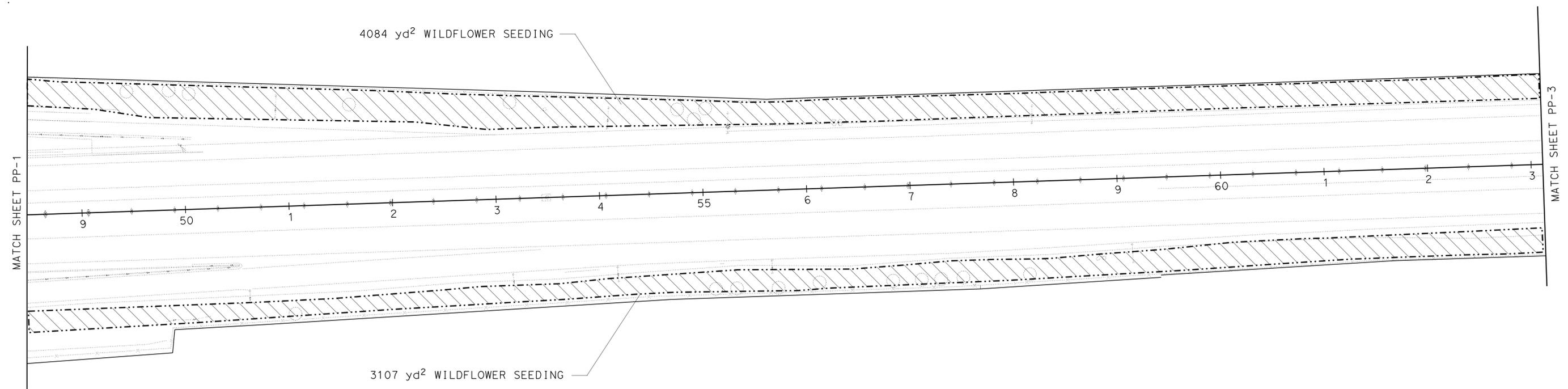

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Caltrans LANDSCAPE ARCHITECTURE	ELBERT COX	DAVID MARTIN	DAVID MARTIN
		CHECKED BY	DATE REVISED
		KEVIN GALLO	



PLANTING PLAN
PP-2

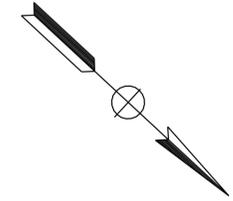
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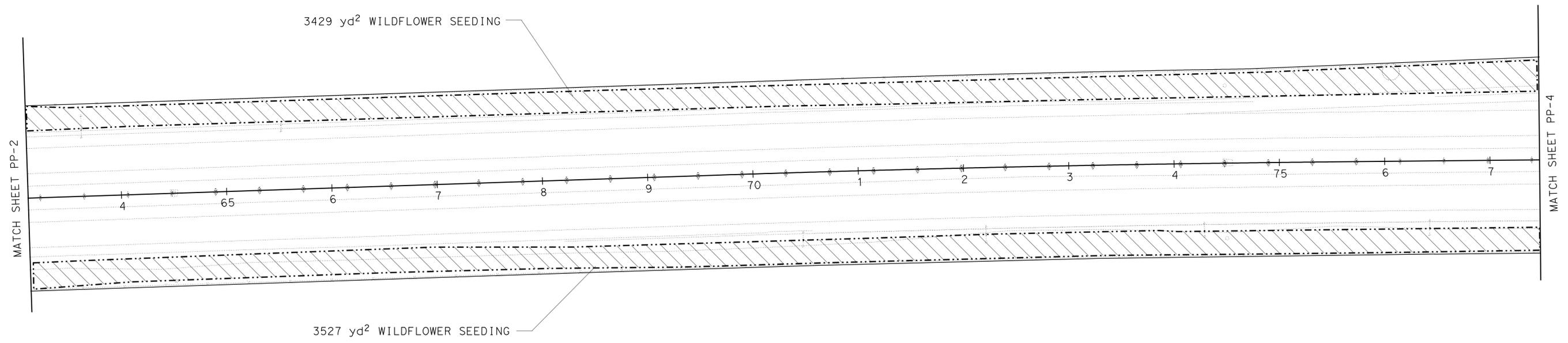

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Caltrans LANDSCAPE ARCHITECTURE			CHECKED BY	KEVIN GALLO	DATE REVISED	



PLANTING PLAN
PP-3

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
ELBERT COX

CALCULATED-DESIGNED BY
 CHECKED BY

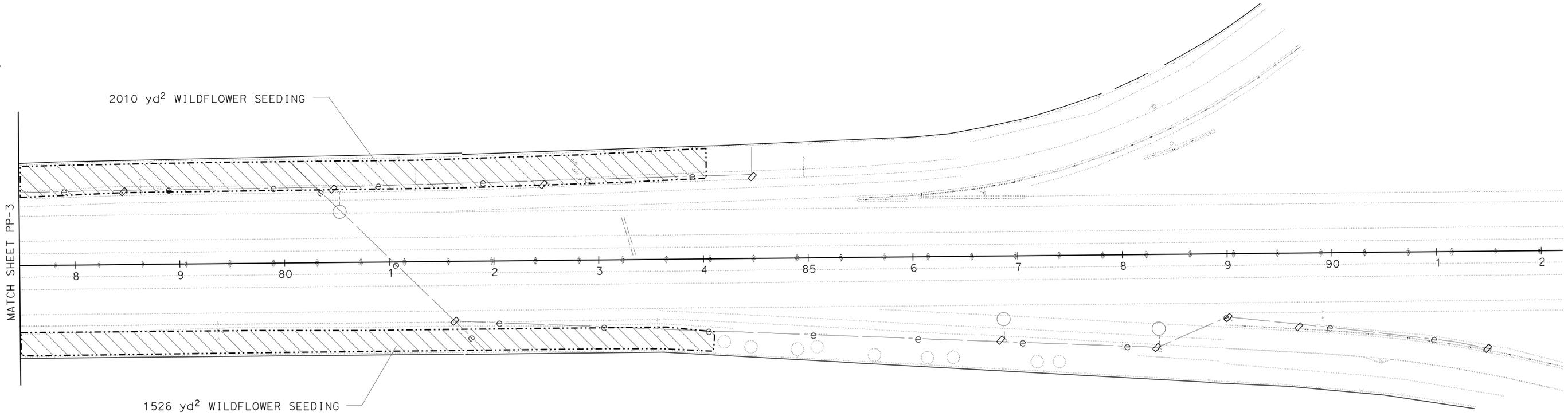
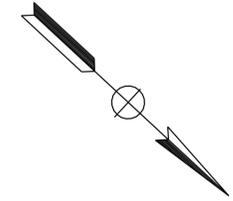
DAVID MARTIN
 KEVIN GALLO

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	16	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 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.



PLANTING PLAN
PP-4

SCALE: 1"=50'

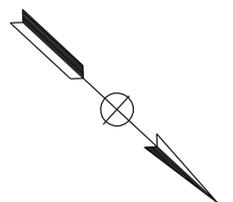
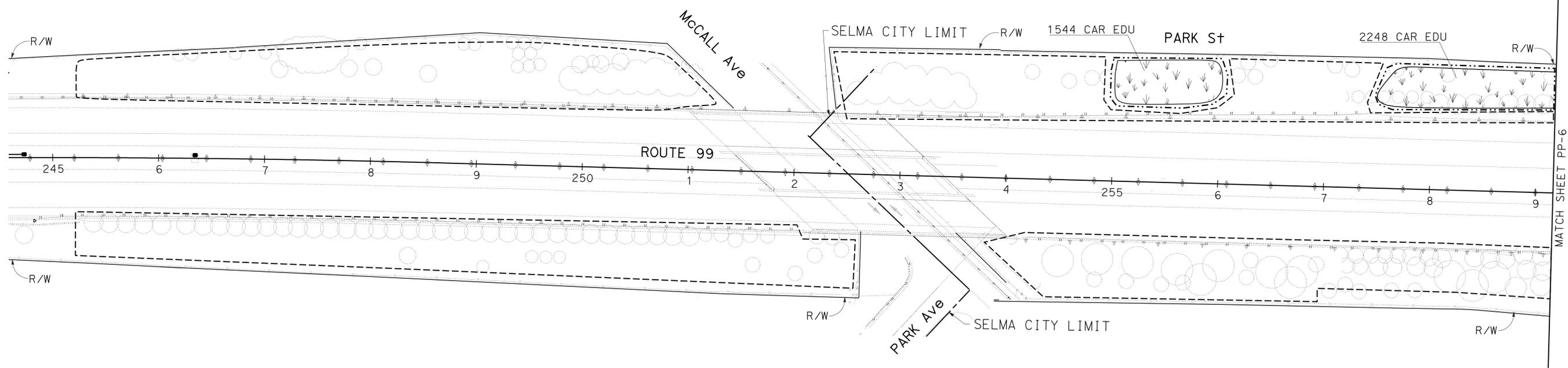
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	17	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
ELBERT COX
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISED



PLANTING PLAN
PP-5
 SCALE: 1"=50'

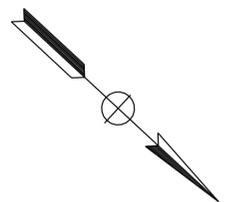
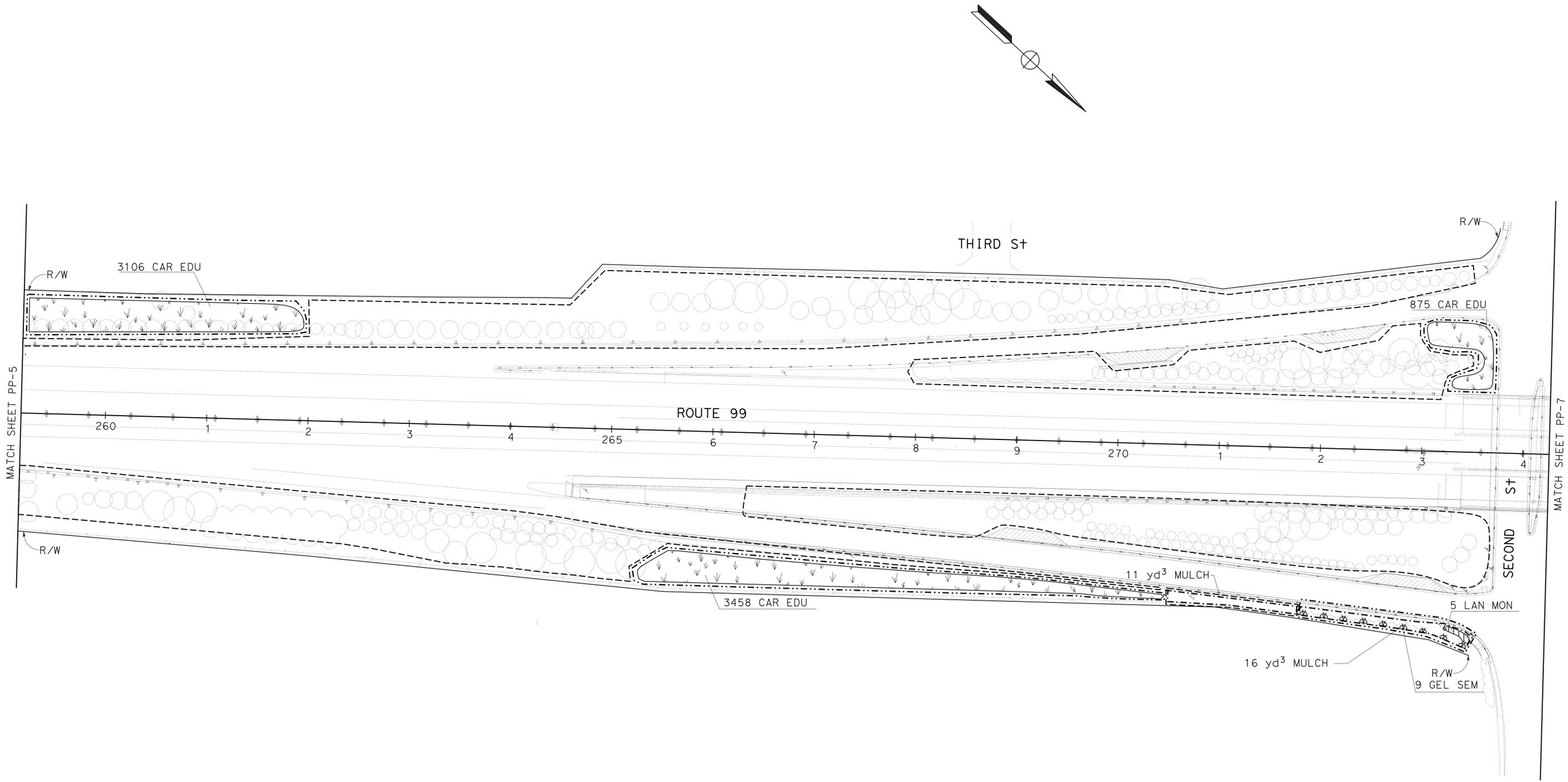
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	18	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 ELBERT COX SENIOR LANDSCAPE ARCHITECT
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISED



PLANTING PLAN
PP-6

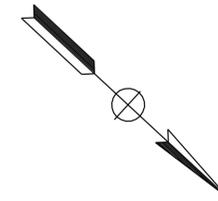
SCALE: 1"=50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	19	58

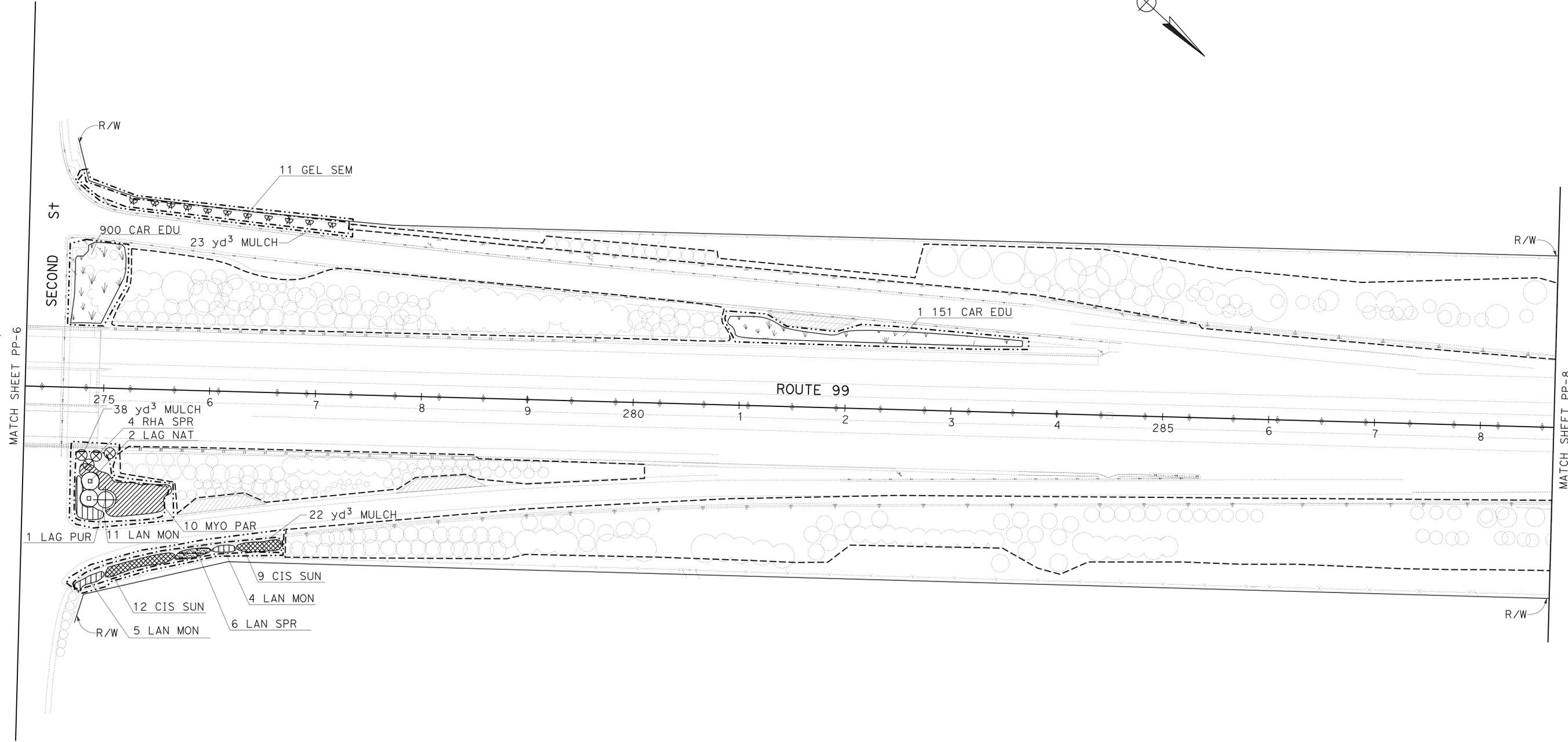

 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 ELBERT COX
 SENIOR LANDSCAPE ARCHITECT
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISED



PLANTING PLAN
PP-7

SCALE: 1"=50'

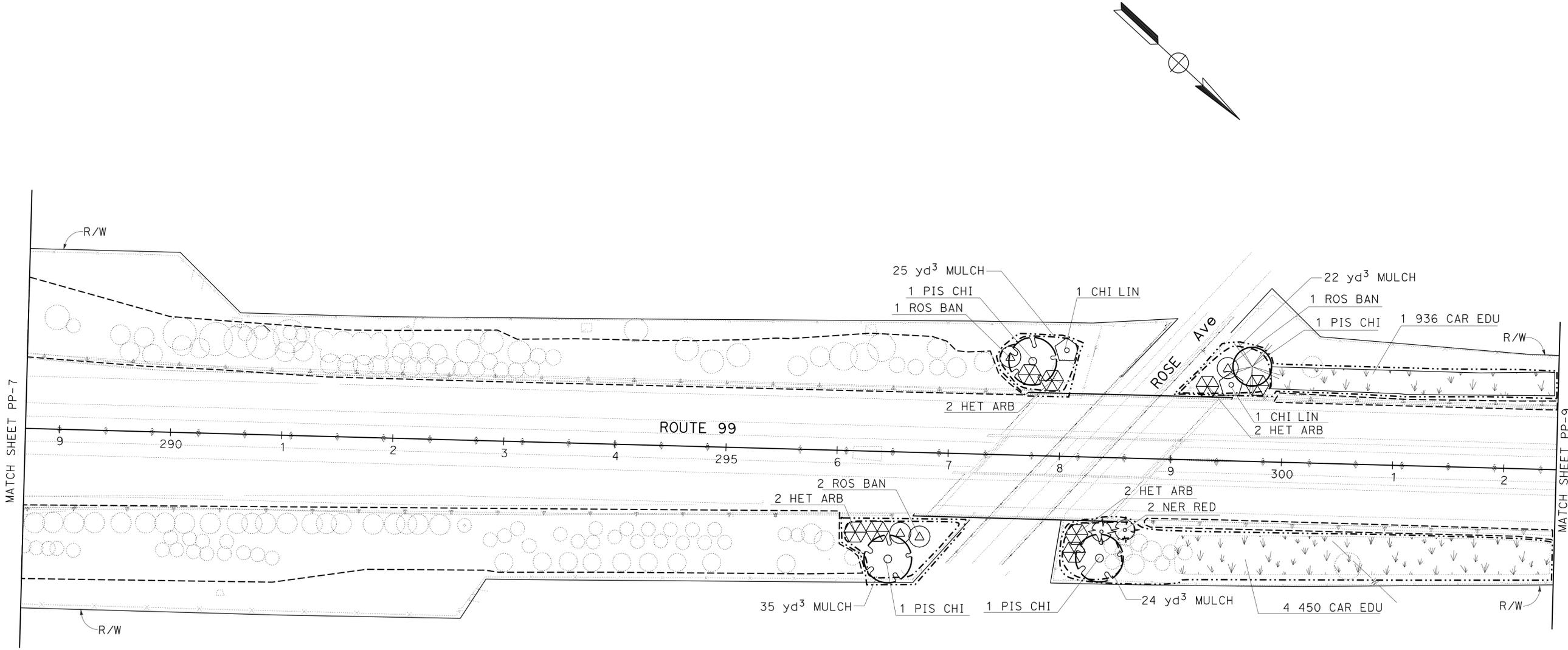
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	20	58

David R. Martin
 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 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.

LICENSED LANDSCAPE ARCHITECT
 DAVID R. MARTIN #30391
 SIGNATURE
 03/31/09
 EXPIRES DATE
 10/16/08
 STATE OF CALIFORNIA

DAVID MARTIN	REVISOR	DATE
KEVIN GALLO	REVISOR	DATE
ELBERT COX	DESIGNER	DATE



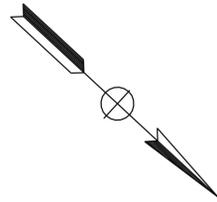
PLANTING PLAN
PP-8

SCALE: 1"=50'

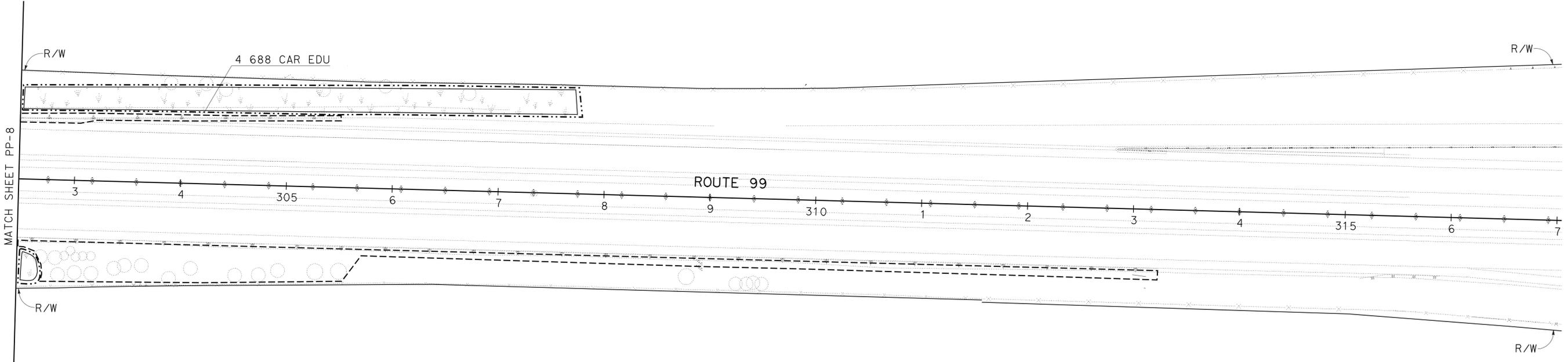
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	21	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 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.

LICENSED LANDSCAPE ARCHITECT
DAVID R. MARTIN #3039
STATE OF CALIFORNIA
RENEWAL DATE
03/31/09
DATE
10/16/08



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ELBERT COX	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	DAVID MARTIN	REVISOR BY	
Caltrans LANDSCAPE ARCHITECTURE			CHECKED BY	KEVIN GALLO	DATE REVISED	



PLANTING PLAN
PP-9

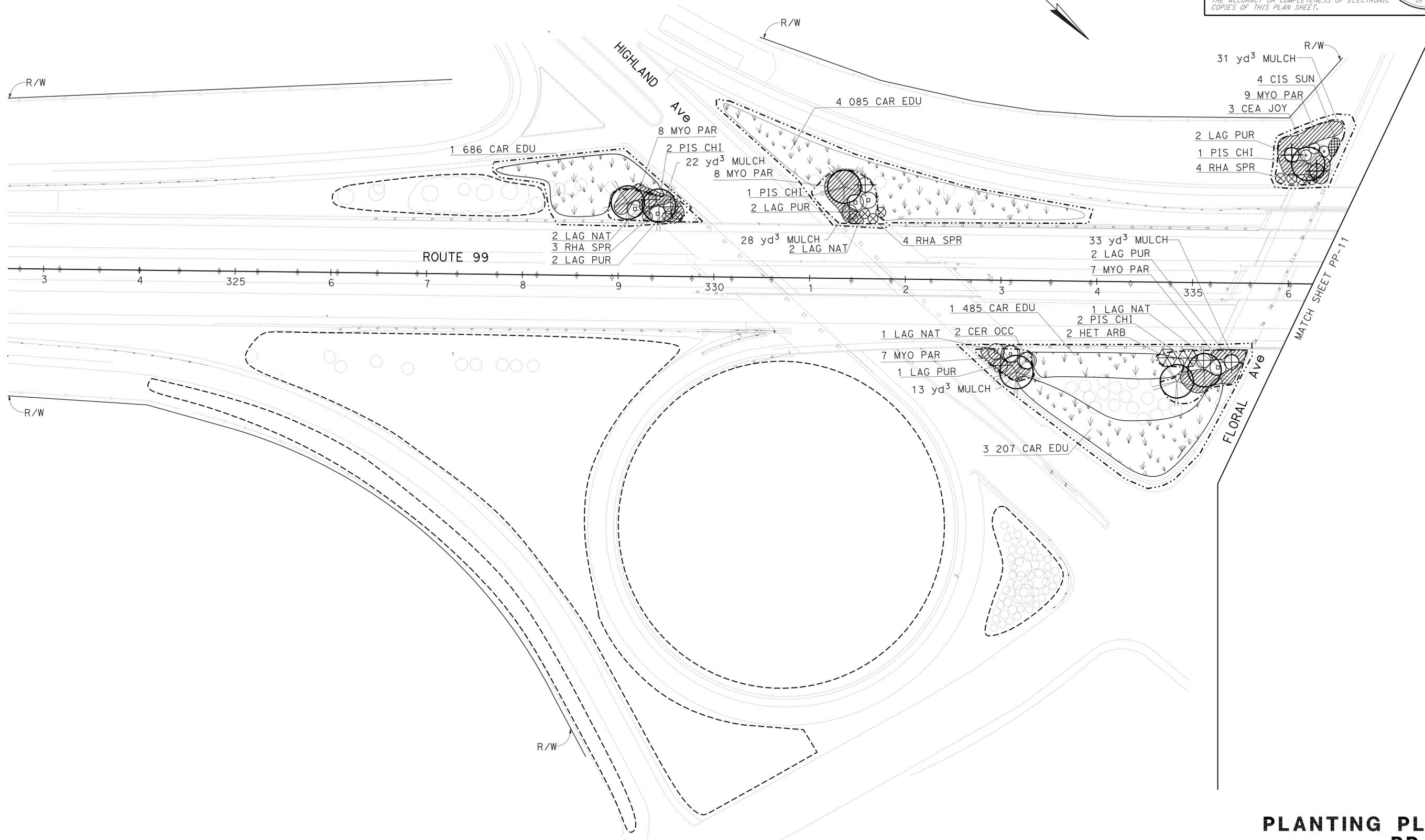
SCALE: 1"=50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	22	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT **ELBERT COX**
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISED

PLANTING PLAN
PP-10

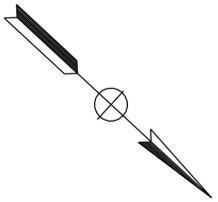
SCALE: 1"=50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	24	58

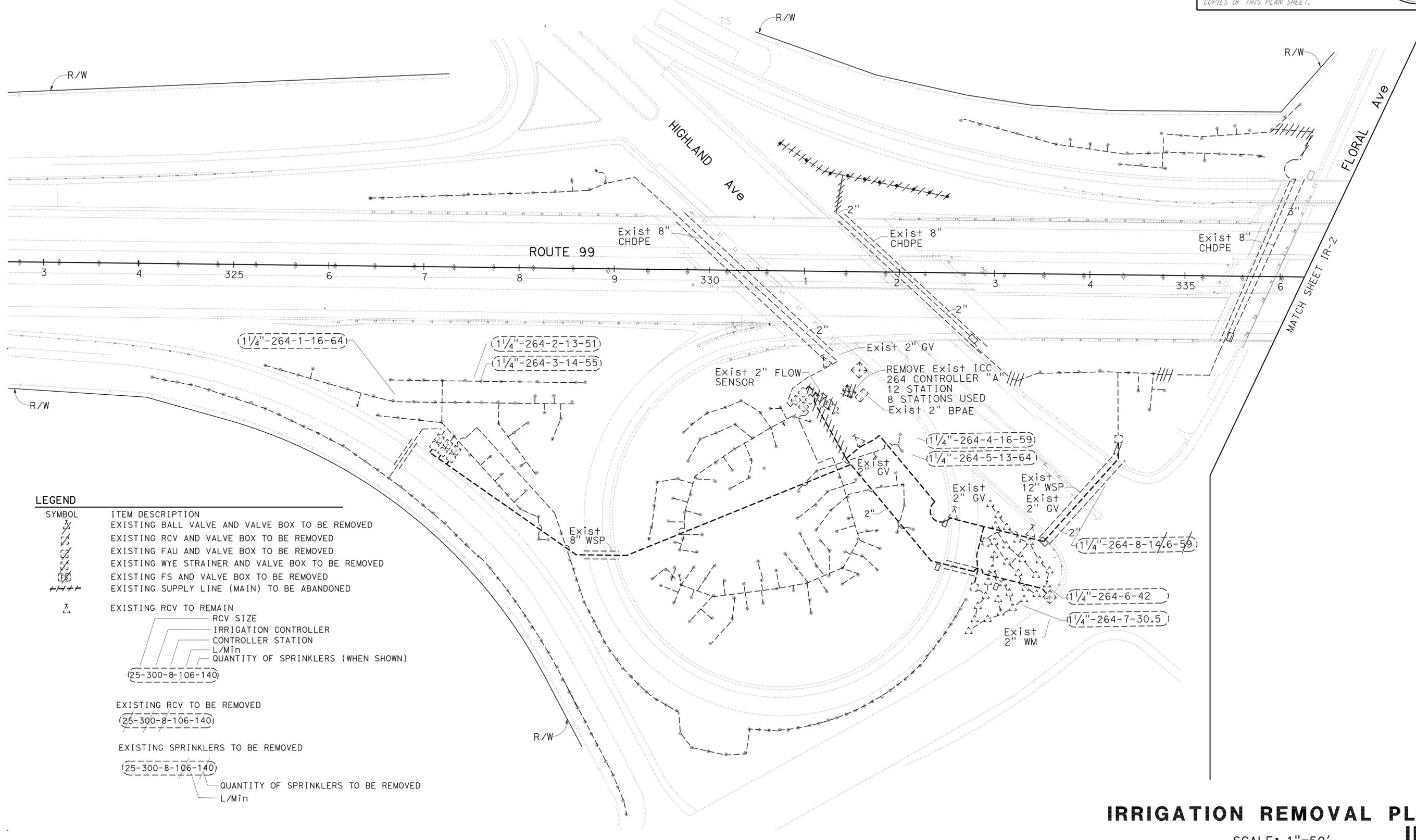

 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
ELBERT COX
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISD



LEGEND

SYMBOL	ITEM DESCRIPTION
	EXISTING BALL VALVE AND VALVE BOX TO BE REMOVED
	EXISTING RCV AND VALVE BOX TO BE REMOVED
	EXISTING FAU AND VALVE BOX TO BE REMOVED
	EXISTING WYE STRAINER AND VALVE BOX TO BE REMOVED
	EXISTING FS AND VALVE BOX TO BE REMOVED
	EXISTING SUPPLY LINE (MAIN) TO BE ABANDONED
	EXISTING RCV TO REMAIN
	RCV SIZE
	IRRIGATION CONTROLLER
	CONTROLLER STATION
	L/Min
	QUANTITY OF SPRINKLERS (WHEN SHOWN)
	EXISTING RCV TO BE REMOVED
	(25-300-8-106-140)
	EXISTING SPRINKLERS TO BE REMOVED
	(25-300-8-106-140)
	QUANTITY OF SPRINKLERS TO BE REMOVED
	L/Min

IRRIGATION REMOVAL PLAN
IR-1
 SCALE: 1"=50'

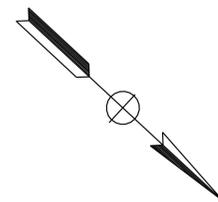
LAST REVISION DATE PLOTTED => 19-OCT-2009
 10-16-08 TIME PLOTTED => 14:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	25	58

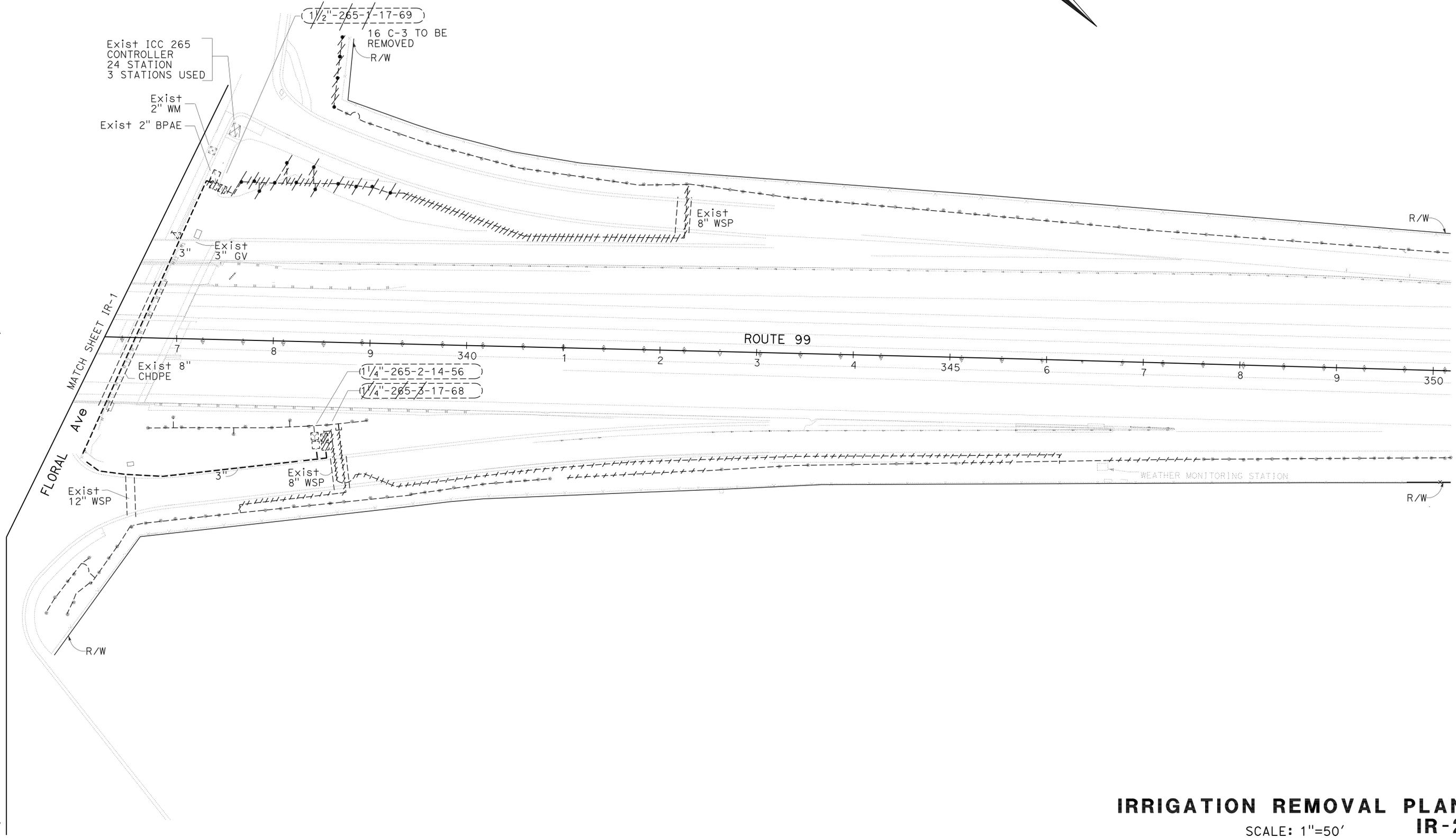

 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
ELBERT COX
 CHECKED BY
 CALCULATED-DESIGNED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISD



IRRIGATION REMOVAL PLAN
IR-2
 SCALE: 1"=50'

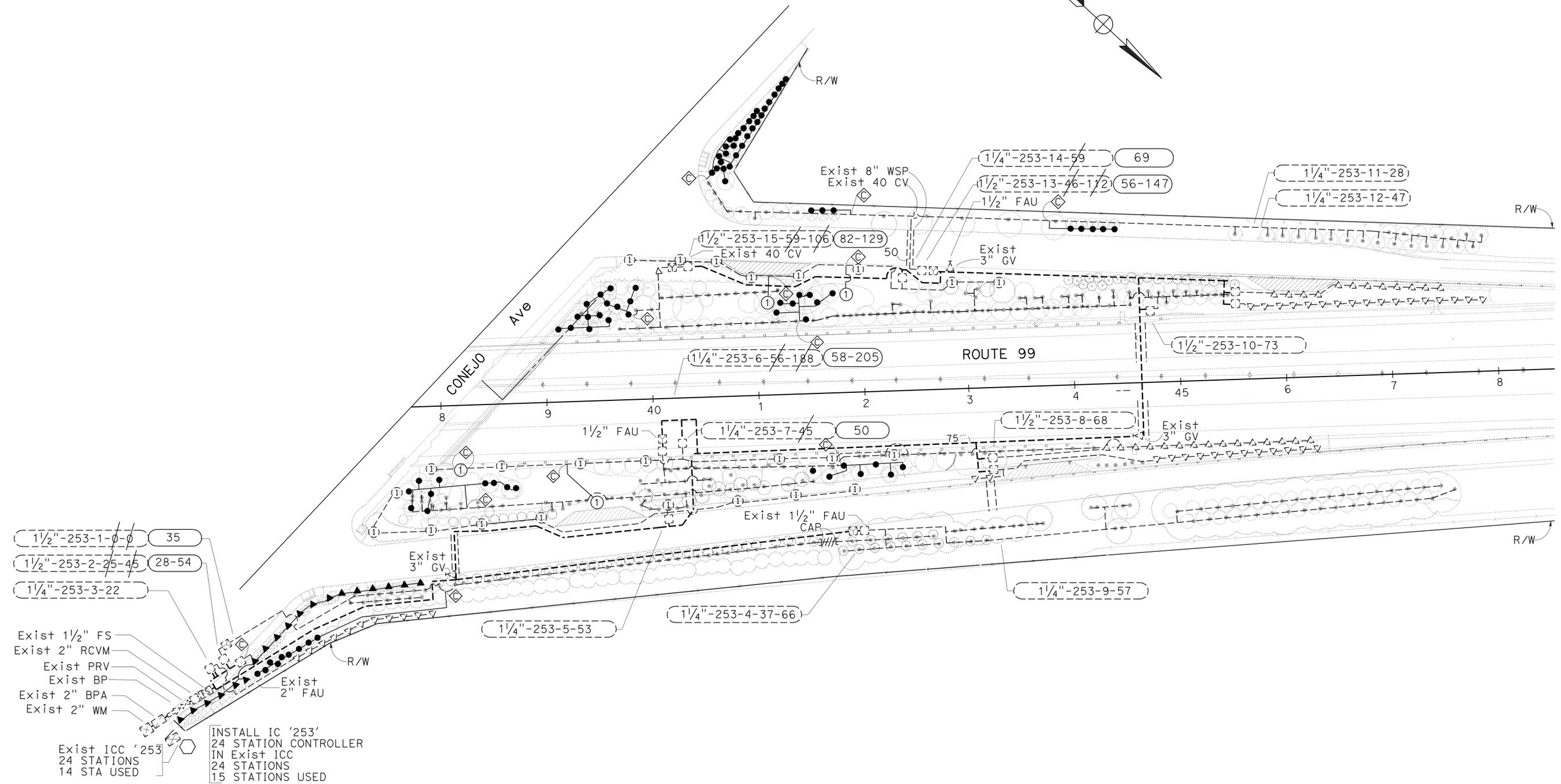
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	26	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
ELBERT COX
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISED



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

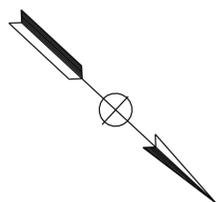
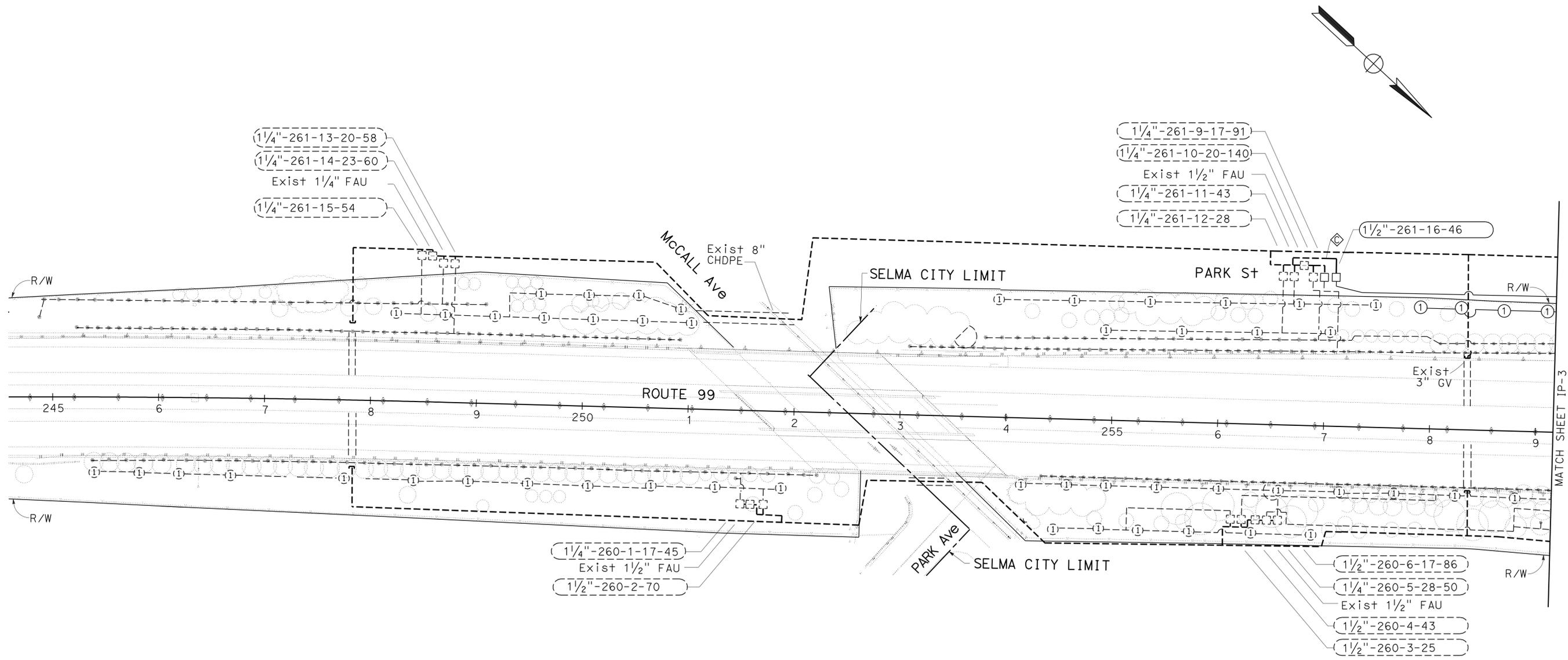
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	27	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
ELBERT COX
 CALCULATED-DESIGNED BY
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISED BY
 DATE REVISED



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

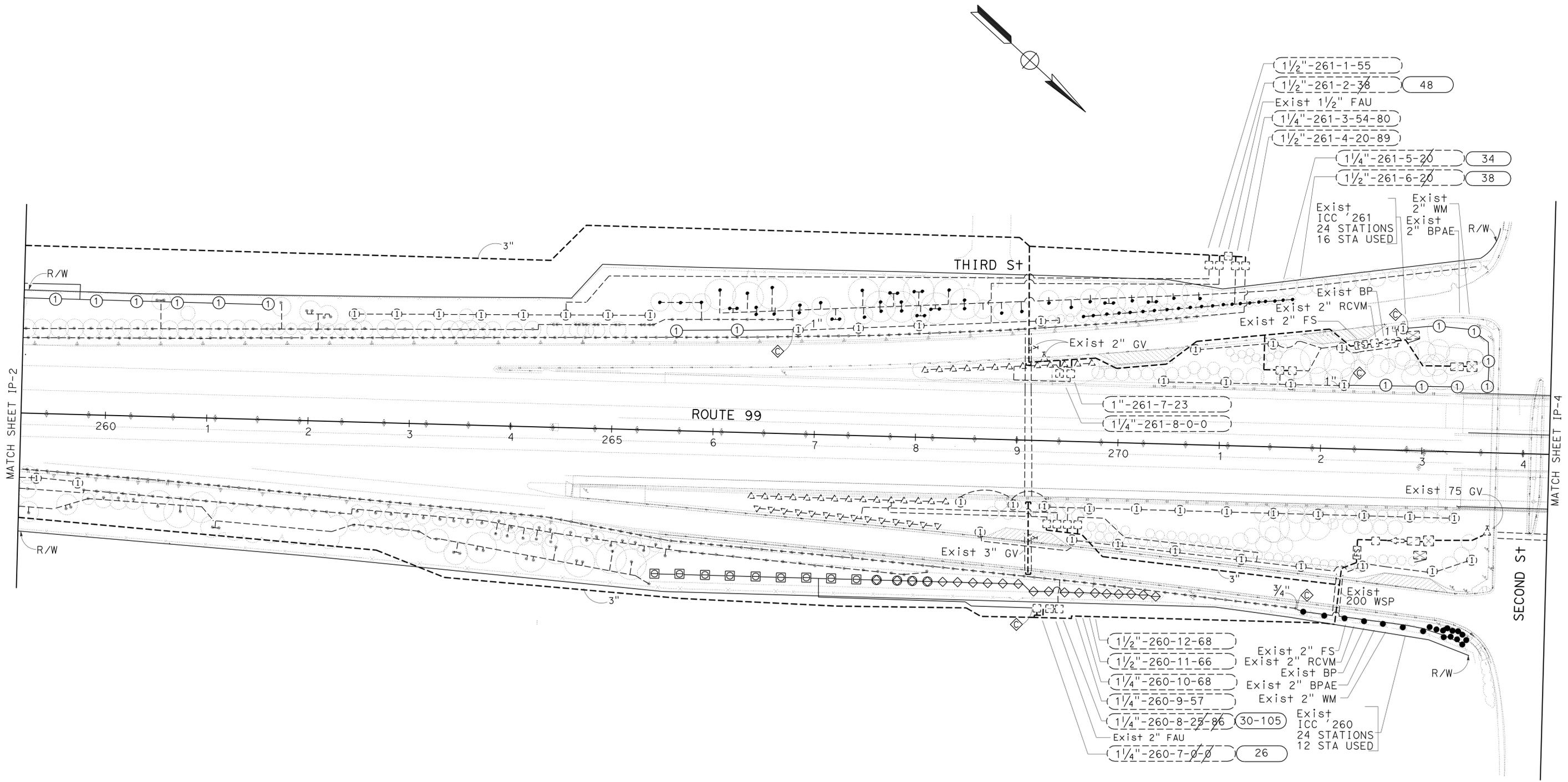
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	28	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ELBERT COX	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	DAVID MARTIN	REVISOR BY	
Caltrans LANDSCAPE ARCHITECTURE			CHECKED BY	KEVIN GALLO	DATE REVISED	



- 1 1/2" - 261-1-55
- 1 1/2" - 261-2-38 48
- Exist 1 1/2" FAU
- 1/4" - 261-3-54-80
- 1 1/2" - 261-4-20-89
- 1/4" - 261-5-20 34
- 1 1/2" - 261-6-20 38
- Exist ICC '261 24 STATIONS 16 STA USED
- Exist 2" WM
- Exist 2" BPAE R/W
- Exist BP
- Exist 2" RCVM
- Exist 2" FS
- Exist 2" GV
- 1" - 261-7-23
- 1/4" - 261-8-0-0
- Exist 75 GV
- Exist 3" GV
- Exist 200 WSP
- 1 1/2" - 260-12-68
- 1 1/2" - 260-11-66
- 1/4" - 260-10-68
- 1/4" - 260-9-57
- 1/4" - 260-8-25-86 30-105
- Exist 2" FS
- Exist 2" RCVM
- Exist BP
- Exist 2" BPAE
- Exist 2" WM
- Exist 2" FAU
- 1/4" - 260-7-0-0 26
- Exist ICC '260 24 STATIONS 12 STA USED

IRRIGATION PLAN IP-3
SCALE: 1"=50'

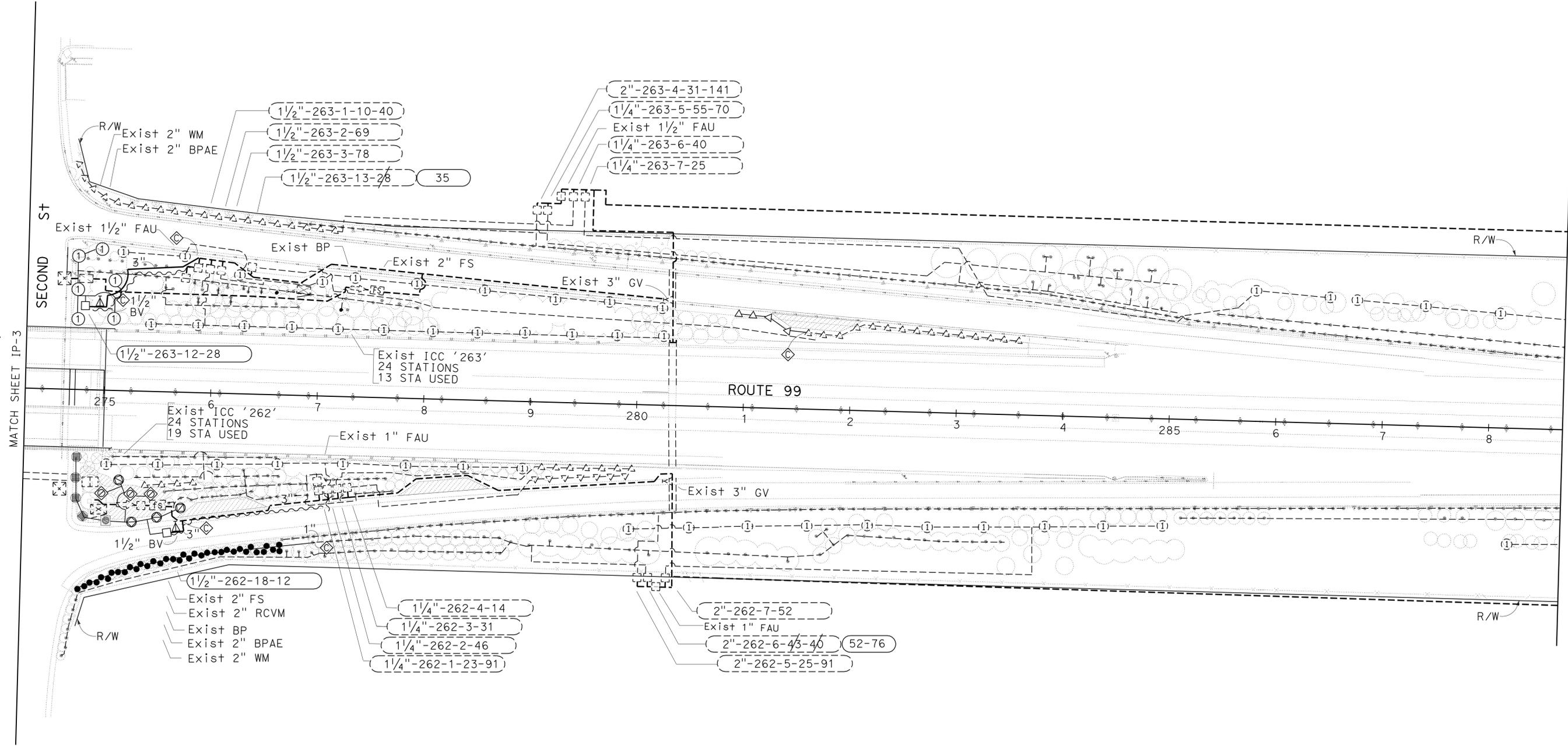
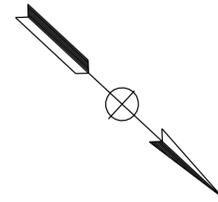
LAST REVISION DATE PLOTTED => 19-OCT-2009
 10-16-08 TIME PLOTTED => 14:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	29	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELBERT COX SENIOR LANDSCAPE ARCHITECT
 ELBERT COX LANDSCAPE ARCHITECTURE
 DAVID MARTIN
 KEVIN GALLO
 REVISOR BY DATE
 CHECKED BY
 CALCULATED/DESIGNED BY
 DATE REVISOR

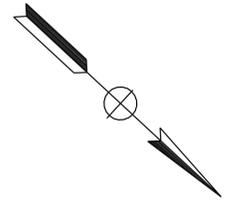
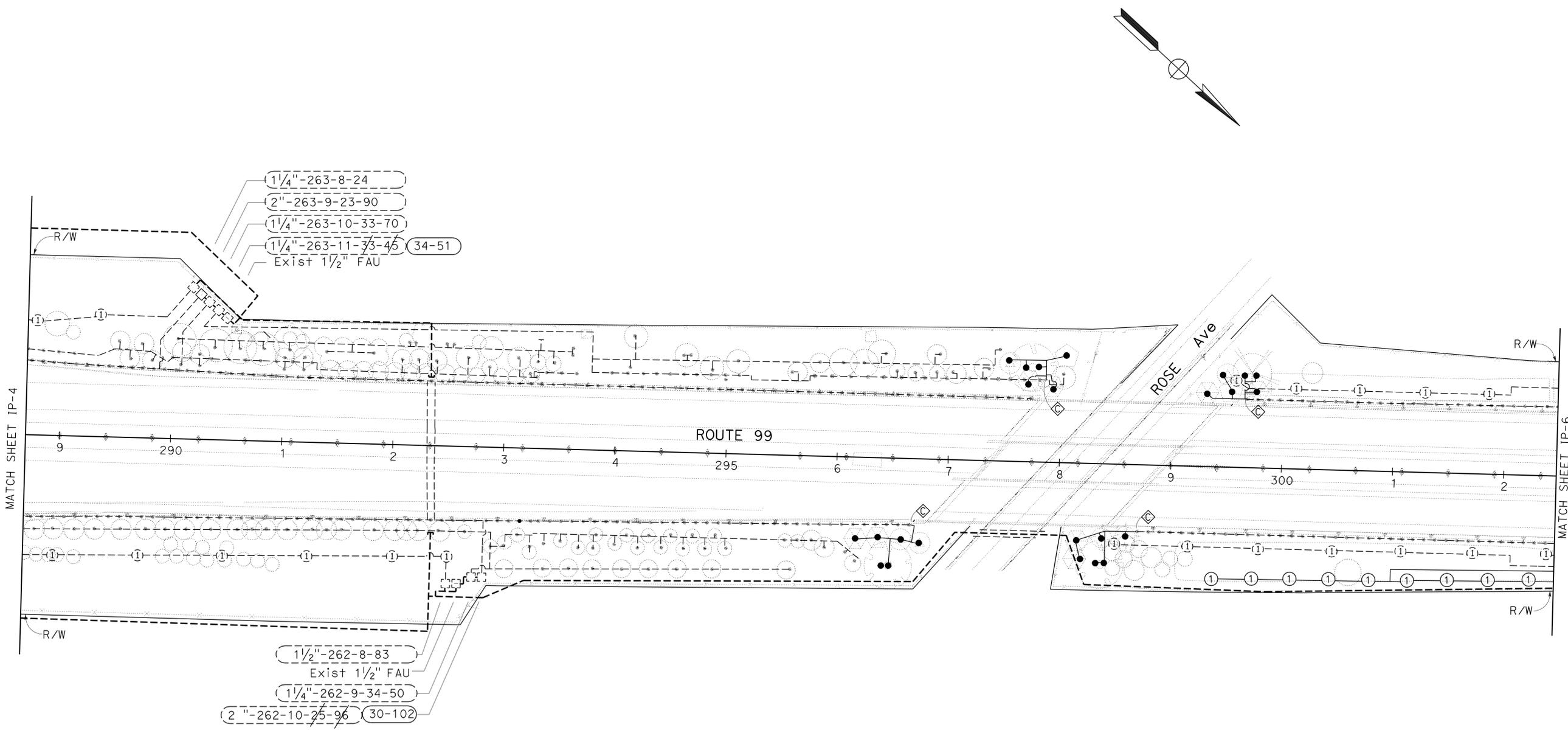
IRRIGATION PLAN
SCALE: 1"=50'
IP-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	30	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR
Caltrans LANDSCAPE ARCHITECTURE	ELBERT COX	CHECKED BY	DATE
		DAVID MARTIN	KEVIN GALLO



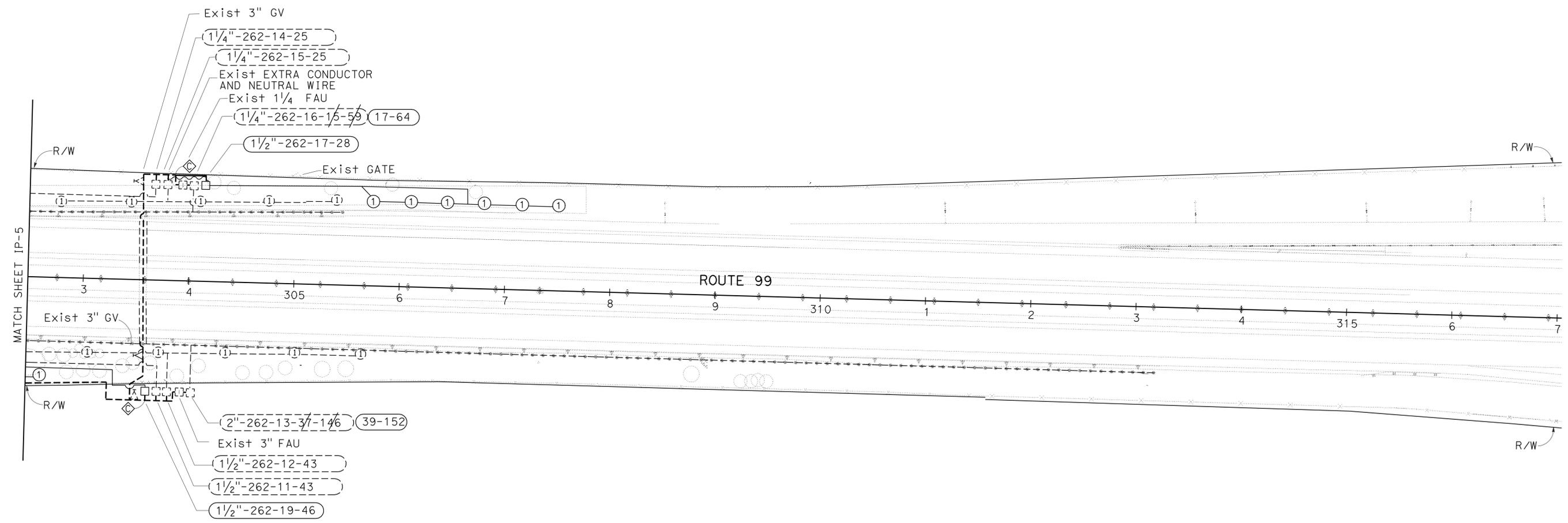
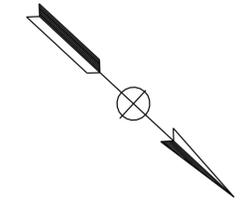
IRRIGATION PLAN
IP-5

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 ELBERT COX SENIOR LANDSCAPE ARCHITECT
 DAVID MARTIN REVISOR
 KEVIN GALLO CHECKER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	31	58

David R. Martin
 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE
 03/31/09
 10/16/08
 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.



IRRIGATION PLAN
IP-6
 SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
ELBERT COX

CALCULATED-DESIGNED BY
 CHECKED BY

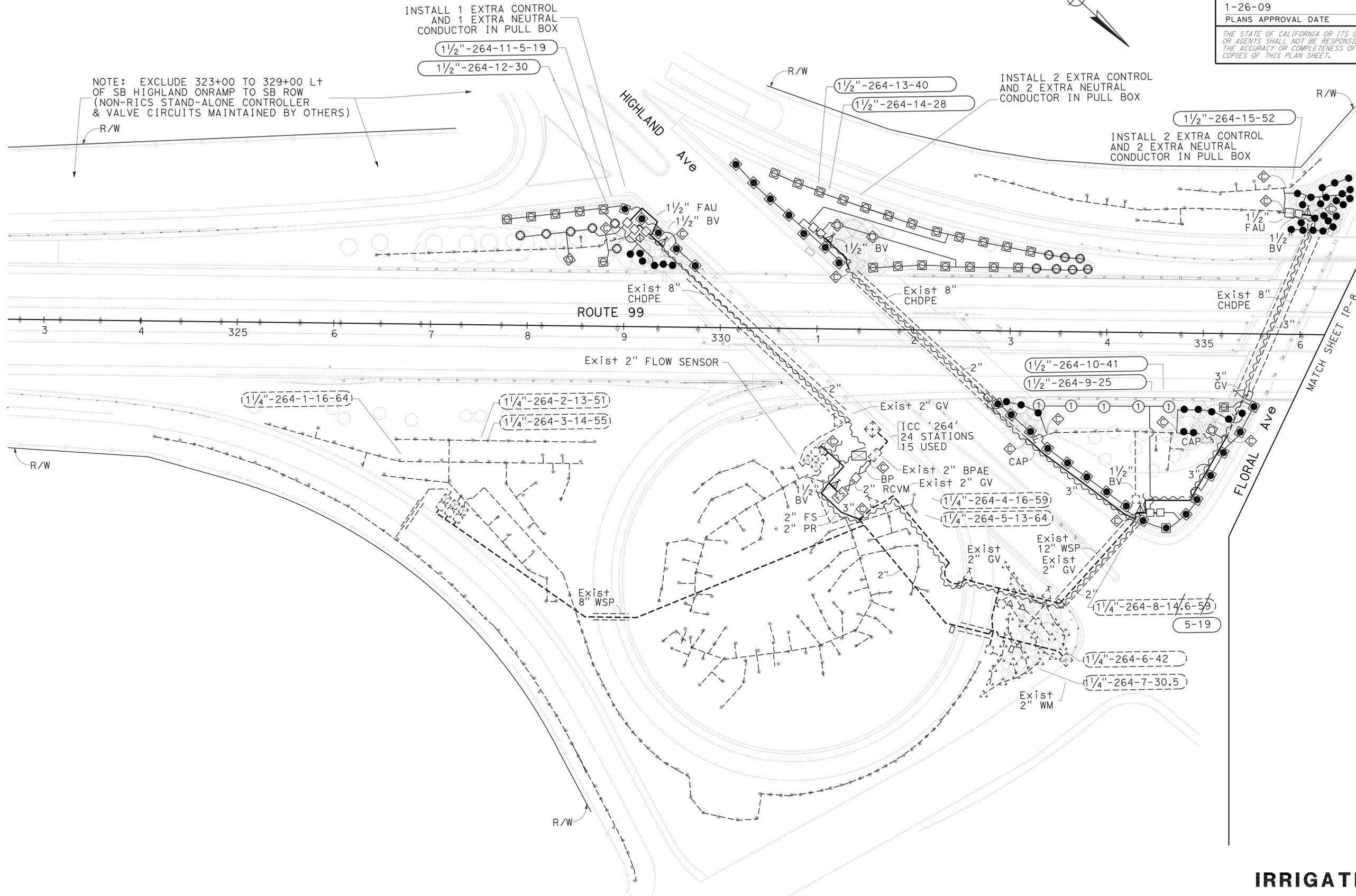
DAVID MARTIN
 KEVIN GALLO

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	32	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE
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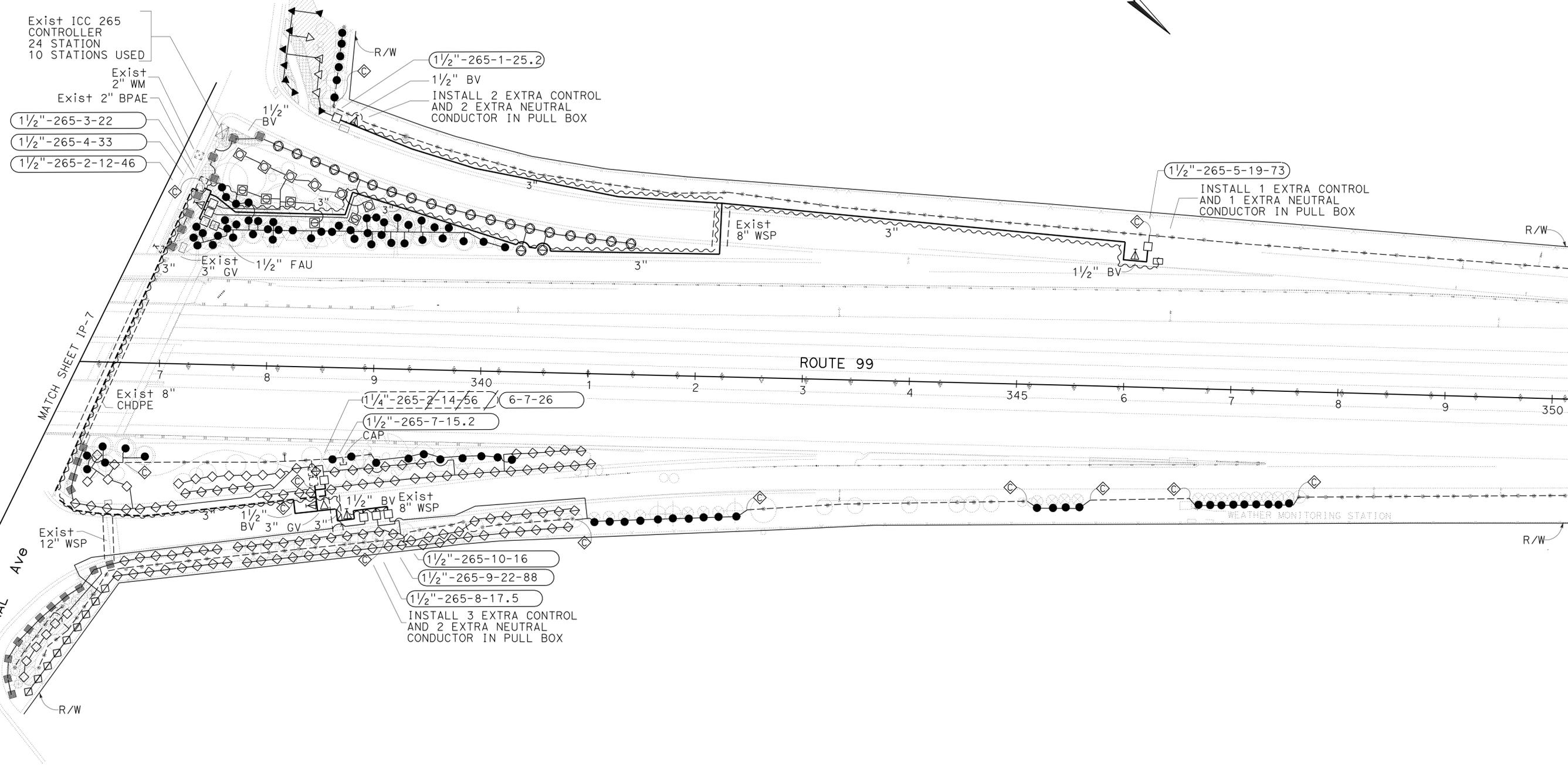
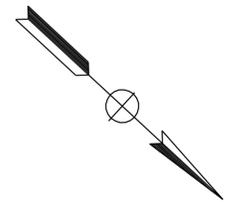
IRRIGATION PLAN
IP-7
 SCALE: 1"=50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	33	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 ELBERT COX
 SENIOR LANDSCAPE ARCHITECT
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISOR BY
 DATE REVISOR

IRRIGATION PLAN
IP-8
 SCALE: 1"=50'

LAST REVISION DATE PLOTTED => 19-OCT-2009
 10-16-08 TIME PLOTTED => 14:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	34	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 PLANS APPROVAL DATE

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SPRINKLER SCHEDULE

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS/MINUS 5% ②				MATERIAL	INLET CONNECTION (NPT INCH)	POSITIVE-LOCKING Adj ARC STOP	BACKSPLASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	Adj DISCHARGE	RISER					REMARKS				
						DISCHARGE		RADIUS (Ft)	WIDTH x LENGTH (Ft)								TYPE	MATERIAL		SIZE (IPS INCH)	HEIGHT (INCH)		FLOW SHUTOFF DEVICE			
						GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)											PLASTIC	GALVANIZED					SWING JOINT (TYPE)	RISER SUPPORT	SPRINKLER PROTECTOR (TYPE)
①	A-1	IMPACT	Adj	40	-	4.62	-	43	-	PL	1/2	-	-	-	-	X	IV	-	X	1/2	18	-	I	-	-	
◊	B-5	ROTATING MULTI-STREAM SPRAY	P	40	-	.37	-	12	-	PL	1/2	-	-	-	-	X	II	-	X	1/2	12	-	II	-	-	
◊	B-5	ROTATING MULTI-STREAM SPRAY	F	40	-	.74	-	12	-	PL	1/2	-	-	-	-	X	II	-	X	1/2	12	-	II	-	-	
◆	B-6	ROTATING MULTI-STREAM SPRAY	P	40	-	.37	-	12	-	PL	1/2	-	-	-	-	X	VI	-	-	-	-	-	-	-	-	6" POP-UP
⊙	B-5	ROTATING MULTI-STREAM SPRAY	P	40	-	.74	-	20	-	PL	1/2	-	-	-	-	X	II	-	X	1/2	12	-	II	-	-	
⊙	B-5	ROTATING MULTI-STREAM SPRAY	F	40	-	1.47	-	20	-	PL	1/2	-	-	-	-	X	II	-	X	1/2	12	-	II	-	-	
◆	B-6	ROTATING MULTI-STREAM SPRAY	P	40	-	.74	-	20	-	PL	1/2	-	-	-	-	X	VI	-	-	-	-	-	-	-	-	6" POP-UP
◊	B-5	ROTATING MULTI-STREAM SPRAY	P	40	-	1.82	-	30	-	PL	1/2	-	-	-	-	X	II	-	X	1/2	12	-	II	-	-	
◊	B-5	ROTATING MULTI-STREAM SPRAY	F	40	-	4.07	-	30	-	PL	1/2	-	-	-	-	X	II	-	X	1/2	12	-	II	-	-	
◆	B-6	ROTATING MULTI-STREAM SPRAY	P	40	-	1.82	-	30	-	PL	1/2	-	-	-	-	X	VI	-	-	-	-	-	-	-	-	6" POP-UP
△	B-1	SHRUB SPRAY	H/F	40	X	1.85/3.70	-	15	-	PL	1/2	-	-	-	-	X	II	-	X	1/2	12	-	II	-	-	
▲	B-2	SHRUB SPRAY	H/F	40	X	1.85/3.70	-	15	-	PL	1/2	-	-	-	-	X	VI	-	X	1/2	-	-	-	-	-	6" POP-UP
●	C-3	SPRAY	P	30	X	.25	-	-	-	PL	1/2	-	-	-	-	X	VIII	-	-	-	4	-	II	-	-	

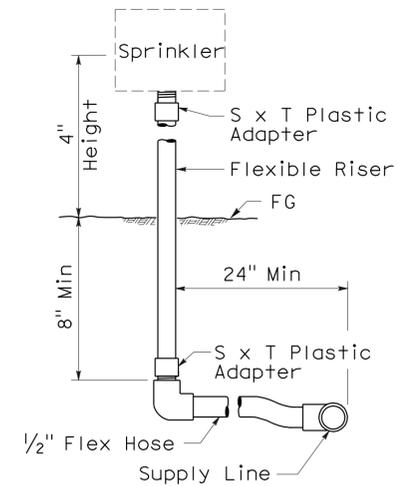
X IN BOX DENOTES REQUIREMENT

APPLICABLE WHEN CIRCLED BELOW:

- 1 - See Special Provisions.
- ② - If a pressure compensating device is specified, the discharge and radii shown reflect its use.
- 3 - Arc Stop shall be fitted with a nut and bolt.
- 4 - Vinyl-coated cast iron housing.
- ⑤ - Swing Joints required adjacent to shoulders, curbs, sidewalks, and dikes.
- 6 - Unless otherwise shown on plans.
- 7 - Check valve installed in riser.

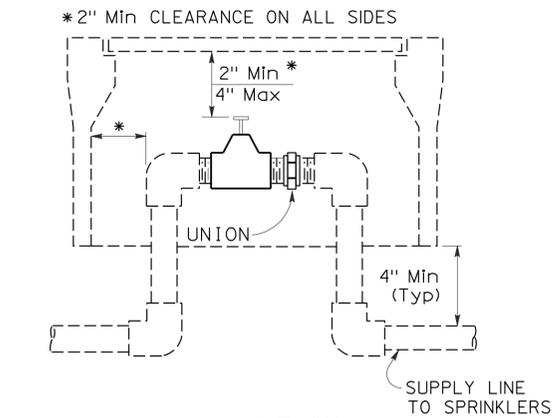
ABBREVIATIONS:

- | | |
|---------------------------|-------------------------------|
| F — full circle | Ft — feet/foot |
| P — part circle | GPM — gallons per minute |
| F/P — full/part circle | GPH — gallons per hour |
| Q — quarter circle | Adj — adjustable |
| T — third circle | PL — plastic |
| H — half circle | B/B — brass/bronze |
| TT — two third circle | B/PL — brass/plastic |
| TQ — three quarter circle | B/B/PL — brass/bronze/plastic |
| CST — center strip | NPT — national pipe thread |
| SST — side strip | IPS — iron pipe size |
| EST — end strip | PSI — pounds per square inch |

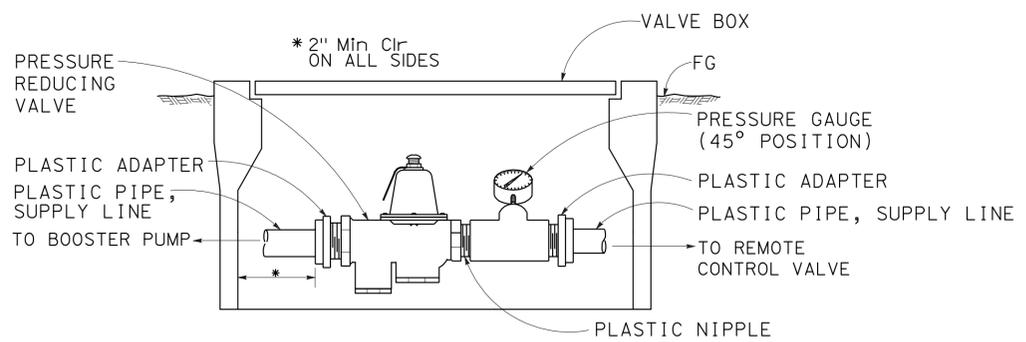


**RISER TYPE VIII
ELEVATION**

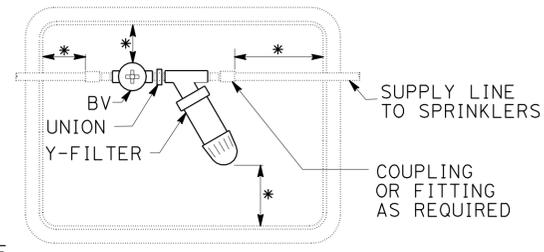
SPRINKLER SCHEDULE LD-1



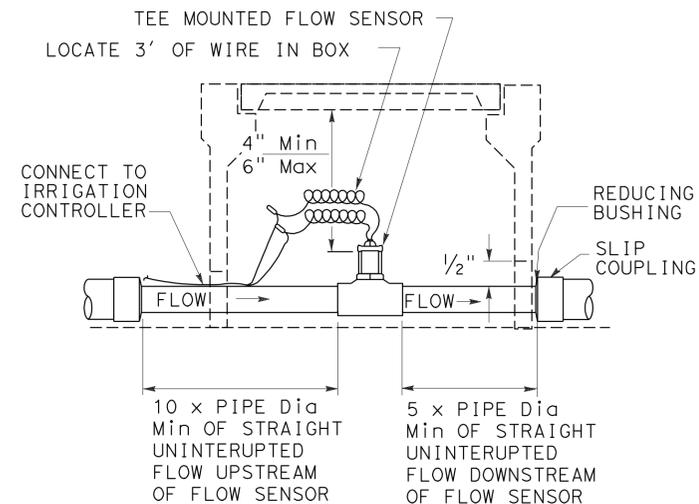
**ELEVATION
REMOTE CONTROL VALVE**



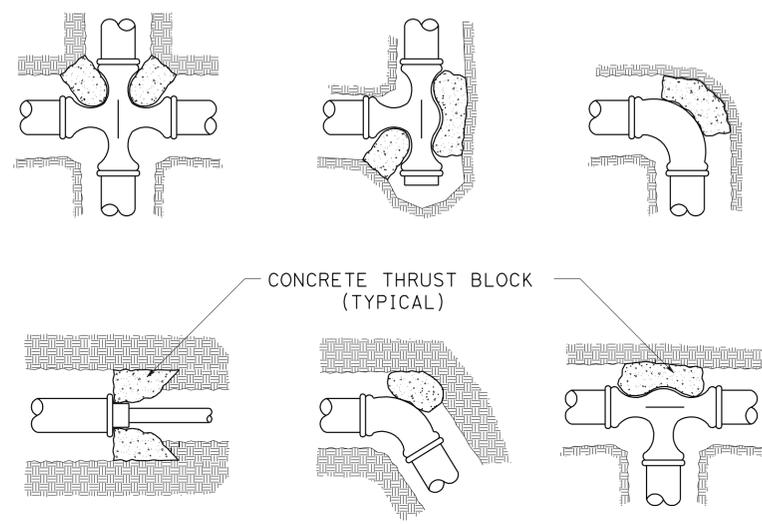
**ELEVATION
PRESSURE REDUCING VALVE**



**PLAN VIEW
FILTER ASSEMBLY UNIT**



**ELEVATION
FLOW SENSOR**



TYPICAL THRUST BLOCK

LATERAL PIPE SIZING CHART													Pipe Size
QUANTITY OF SPRINKLERS BY TYPE													
A-1	B-5	B-5	B-6	B-5	B-5	B-6	B-5	B-5	B-6	B-1&2 (HALF)	B-1&2 (FULL)	C-3	
1	1-21	1-10	1-21	1-10	1-5	1-10	1-4	1-2	1-4	1-4	1-2	1-16	3/4"
2	22-32	11-15	22-32	11-15	6-8	11-15	5-6	3	5-6	5-8	3-4	17-36	1"
3	33-59	16-28	33-59	16-28	9-14	16-28	7-12	4-5	7-12	9-13	5-6	37-64	1 1/4"
4-5	60-81	29-39	60-81	29-39	15-20	29-39	13-16	6-7	13-16	14-16	7-8	65-96	1 1/2"
6-8	82-129	40-66	82-129	40-66	21-34	40-66	17-27	8-12	17-27	17-27	9-13	97-160	2"
9-13	130-189	67-94	130-189	67-94	35-47	67-94	28-38	13-17	27-38	28-35	14-19	161-258	2 1/2"

**SPRINKLER SCHEDULE
LD-2**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 ELBERT COX
 SENIOR LANDSCAPE ARCHITECT
 CHECKED BY
 DAVID MARTIN
 KEVIN GALLO
 REVISOR BY
 DATE REVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	36	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 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.

SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER "253"															SUBTOTALS	UNIT	DESCRIPTION	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
PLASTIC PIPE SUPPLY LINE	3/4"	LF	120	210	-	-	-	180	-	-	-	-	-	-	272	54	315	1151	LF	3/4"
	1"	LF	90	-	-	-	-	-	53	-	-	-	-	-	25	-	-	168	LF	1"
	1 1/4"	LF	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	LF	1 1/4"
	1 1/2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LF	1 1/2"
	2"	LF	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	LF	2"
	2 1/2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LF	2 1/2"
SPRINKLER TYPE	⊙ A-1	EA	-	-	-	-	-	-	2	-	-	-	-	-	-	2	-	4	EA	⊙ A-1
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◇ B-5
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◇ B-5
	◆ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◆ B-6
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-6
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-6
	△ B-1	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	△ B-1
	▲ B-2	EA	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	EA	▲ B-2
	● C-3	EA	-	9	-	-	-	-	17	-	-	-	-	-	37	-	23	86	EA	● C-3

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER "260"												SUBTOTALS	UNIT	DESCRIPTION
		1	2	3	4	5	6	7	8	9	10	11	12			
PLASTIC PIPE SUPPLY LINE	3/4"	LF	-	-	-	-	-	325	150	-	-	-	-	475	LF	3/4"
	1"	LF	-	-	-	-	-	160	140	-	-	-	-	300	LF	1"
	1 1/4"	LF	-	-	-	-	-	12	-	-	-	-	-	12	LF	1 1/4"
	1 1/2"	LF	-	-	-	-	-	230	-	-	-	-	-	230	LF	1 1/2"
	2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	LF	2"
2 1/2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	LF	2 1/2"	
SPRINKLER TYPE	⊙ A-1	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊙ A-1
	◇ B-5	EA	-	-	-	-	-	16	-	-	-	-	-	16	EA	◇ B-5
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	◇ B-5
	◆ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	◆ B-6
	⊗ B-5	EA	-	-	-	-	-	4	-	-	-	-	-	4	EA	⊗ B-5
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-6
	⊗ B-5	EA	-	-	-	-	-	9	-	-	-	-	-	9	EA	⊗ B-5
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-6
	△ B-1	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	△ B-1
	▲ B-2	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	▲ B-2
	● C-3	EA	-	-	-	-	-	-	19	-	-	-	-	19	EA	● C-3

**IRRIGATION QUANTITIES
IQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ELBERT COX
 KEVIN GALLO
 DAVID MARTIN
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	37	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 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.

SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER "261"																SUBTOTALS	UNIT	DESCRIPTION
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
PLASTIC PIPE SUPPLY LINE	3/4"	LF	-	-	-	-	40	40	-	-	-	-	-	-	-	-	80	160	LF	3/4"
	1"	LF	-	-	-	-	40	40	-	-	-	-	-	-	-	-	80	160	LF	1"
	1 1/4"	LF	-	-	-	-	40	40	-	-	-	-	-	-	-	-	80	160	LF	1 1/4"
	1 1/2"	LF	-	-	-	-	-	40	-	-	-	-	-	-	-	-	120	160	LF	1 1/2"
	2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LF	2"
	2 1/2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290	290	LF	2 1/2"
SPRINKLER TYPE	⊙ A-1	EA	-	2	-	-	3	4	-	-	-	-	-	-	-	10	19	EA	⊙ A-1	
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◇ B-5	
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◇ B-5	
	◆ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◆ B-6	
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5	
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5	
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-6	
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5	
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5	
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-6	
	△ B-1	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	△ B-1	
	▲ B-2	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	▲ B-2	
● C-3	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	● C-3		

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER "262"																			SUBTOTALS	UNIT	DESCRIPTION	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
PLASTIC PIPE SUPPLY LINE	3/4"	LF	-	-	-	-	-	95	-	-	-	105	-	-	-	-	100	35	220	70	725	LF	3/4"	
	1"	LF	-	-	-	-	-	135	-	-	-	-	-	-	-	-	-	35	20	70	260	LF	1"	
	1 1/4"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	25	70	130	LF	1 1/4"	
	1 1/2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	105	175	LF	1 1/2"
	2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165	-	-	165	LF	2"	
	2 1/2"	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	230	230	LF	2 1/2"
SPRINKLER TYPE	⊙ A-1	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	10	16	EA	⊙ A-1		
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◇ B-5	
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◇ B-5	
	◆ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	◆ B-6	
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	EA	⊗ B-5	
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	EA	⊗ B-5
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	EA	⊗ B-6
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	EA	⊗ B-5
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	⊗ B-5
	⊗ B-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	EA	⊗ B-6
	△ B-1	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	△ B-1
	▲ B-2	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	▲ B-2
● C-3	EA	-	-	-	-	-	-	36	-	-	-	6	-	-	6	-	-	6	-	-	54	EA	● C-3	

**IRRIGATION QUANTITIES
IQ-2**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 ELBERT COX
 SENIOR LANDSCAPE ARCHITECT
 KEVIN GALLO
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	39	58


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ABBREVIATIONS:

- EA — each
- DIP — ductile iron pipe
- GSP — galvanized steel pipe
- F+ — foot/feet
- PR — pressure rated

SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER "265"										SUBTOTALS	UNIT	DESCRIPTION			
		1	2	3	4	5	6	7	8	9	10						
PLASTIC PIPE SUPPLY LINE PR 200	3/4"	LF	110	395	390	176	65	227	787	634	-	641			3425	LF	3/4"
	1"	LF	18	106	154	25	-	-	168	8	160	-			639	LF	1"
	1 1/4"	LF	46	50	170	25	-	-	7	295	350	20			963	LF	1 1/4"
	1 1/2"	LF	50	-	-	25	-	-	-	-	214	-			289	LF	1 1/2"
	2"	LF	-	-	-	70	-	-	-	-	-	-			70	LF	2"
	2 1/2"	LF	-	-	-	-	-	-	-	-	-	-			-	LF	2 1/2"
SPRINKLER TYPE	⊙ A-1	EA	-	-	-	-	-	-	-	-	-	-			-	EA	⊙ A-1
	◇ B-5	EA	-	-	-	-	-	-	44	24	-	43			111	EA	◇ B-5
	◇ B-5	EA	-	-	-	-	-	-	12	6	-	-			18	EA	◇ B-5
	◆ B-6	EA	-	-	-	6	-	-	4	11	-	-			21	EA	◆ B-6
	⊗ B-5	EA	-	-	21	-	-	-	-	-	-	-			21	EA	⊗ B-5
	⊗ B-5	EA	-	-	-	-	-	-	-	-	-	-			-	EA	⊗ B-5
	⊗ B-6	EA	-	-	8	-	-	-	-	-	-	-			8	EA	⊗ B-6
	◇ B-5	EA	-	-	-	5	-	-	-	-	-	-			5	EA	◇ B-5
	◇ B-5	EA	-	-	-	-	-	-	-	-	-	-			-	EA	◇ B-5
	◆ B-6	EA	-	-	-	-	-	-	-	-	-	-			-	EA	◆ B-6
	△ B-1	EA	4	-	-	-	-	-	-	-	-	-			4	EA	△ B-1
	▲ B-2	EA	8	-	-	-	-	-	-	-	-	-			8	EA	▲ B-2
● C-3	EA	-	46	-	-	6	16	-	-	-	24			92	EA	● C-3	

**IRRIGATION QUANTITIES
 IQ-4**

SUBTOTALS PER PLAN SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE

TOTAL QUANTITIES

DESCRIPTION	UNIT	SHEET NUMBER																SUBTOTALS
		IP-1	IP-2	IP-3	IP-4	IP-5	IP-6	IP-7	IP-8									
BPA																		
ENCLOSURE																		
BOOSTER PUMP	EA	-	-	-	-	-	-	1	-									
IRRI CONTROLLER																		
24 STATION	EA	1	-	-	-	-	-	1	-									
STATION																		
STATION																		
SINGLE		-	-	-	-	-	-	1	-									
DOUBLE																		
1 1/2"	EA	-	-	-	2	-	2	7	9									
2"	EA	-	-	-	-	-	-	1	-									
1 1/2"	EA	-	-	-	2	-	-	4	3									
3"	EA	-	-	-	-	-	-	1	1									
2"	EA	-	-	-	-	-	-	1	-									
1 1/2"	EA	-	-	-	-	-	-	2	1									
2"	EA	-	-	-	-	-	-	1	-									
3/4"	LF	-	-	-	-	-	-	-	-									
1"	LF	-	-	-	-	-	-	-	-									
1 1/4"	LF	-	-	-	-	-	-	-	-									
1 1/2"	LF	-	-	-	-	-	-	-	-									
2"	LF	-	-	-	-	-	-	-	-									
2 1/2"	LF	-	-	-	-	-	-	-	-									
3"	LF	-	-	-	130	-	35	480	1450									
3/4"	LF	-	-	-	-	-	-	-	-									
1"	LF	-	-	-	-	-	-	-	-									
1 1/4"	LF	-	-	-	-	-	-	-	-									
1 1/2"	LF	-	-	-	-	-	-	-	-									
2"	LF	-	-	-	-	-	-	-	-									
2 1/2"	LF	-	-	-	-	-	-	-	-									
3"	LF	-	-	-	-	-	-	-	60									

TOTALS	UNIT	DESCRIPTION	
			BPA
		ENCLOSURE	
1	EA	BOOSTER PUMP	
2	EA	24 STATION	IRRI CONTROLLER
		STATION	
		STATION	
1	EA	SINGLE	IRRI CONTROLLER
		DOUBLE	
20	EA	1 1/2"	RCV
		2"	RCVM
		1 1/2"	BV
		3"	GV
		2"	FS
		1 1/2"	FAU
		2"	PR
		3/4"	WSP
		1"	CSP
7576	LF	3/4"	PR 200
1922	LF	1"	PR 200
1660	LF	1 1/4"	PR 200
1063	LF	1 1/2"	PR 200
260	LF	2"	PR 200
520	LF	2 1/2"	PR 200
2095	LF	3"	PR 200
		3/4"	PR 315
		1"	PR 315
		1 1/4"	PR 315
		1 1/2"	PR 315
		2"	PR 315
		2 1/2"	PR 315
		3"	PR 315
60	LF	3"	DIP GSP
50	EA	⊙ A-1	SPRINKLER TYPE
128	EA	◇ B-5	
18	EA	◇ B-5	
21	EA	◇ B-6	
36	EA	⊕ B-5	
6	EA	⊕ B-5	
12	EA	⊕ B-6	
44	EA	⊕ B-5	
3	EA	⊕ B-5	
29	EA	⊕ B-6	
8	EA	△ B-1	
27	EA	▲ B-2	
296	EA	● C-3	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	40	58


 LICENSED LANDSCAPE ARCHITECT
 1-26-09
 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.



COMMUNICATION CABLE

SHEET	CONTROLLER	COMMUNICATION CABLE (ft)
IP-1	253	10
IP-7	264	10
	TOTAL	20

ABBREVIATIONS:

- | | | |
|----------------------------------|---------------------------|------------------------------------|
| BPA—backflow preventer assembly | FCV—flow control valve | PR—pressure rated |
| BV—ball valve | FS—flow sensor | PRV—pressure reducing valve |
| CV—check valve | FV—flush valve | PRLV—pressure relief valve |
| CEC—controller enclosure cabinet | GSP—galvanized steel pipe | QCV—quick coupling valve |
| CSP—corrugated steel pipe | GV—gate valve | RCV—remote control valve |
| DIP—ductile iron pipe | MCV—manual control valve | RCVM—remote control valve (master) |
| EA—each | Ft—foot/feet | VAU—valve assembly unit |
| FAU—filter assembly unit | | WSP—welded steel pipe |
| | | WS—wye strainer |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et Caltrans LANDSCAPE ARCHITECTURE
 ELBERT COX
 SENIOR LANDSCAPE ARCHITECT
 KEVIN GALLO
 DAVID MARTIN
 REVISOR BY
 DATE REVISOR



IRRIGATION QUANTITIES IQ-5

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS	POST SIZE	No. OF SIGNS
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	1	6" x 6"	4
(B)	G20-2	48" x 24"	END ROAD WORK	1	4" x 6"	4
(C)	W20-1	36" x 36"	ROAD WORK AHEAD	1	4" x 6"	8
(D)	G20-2	36" x 18"	END ROAD WORK	1	4" x 4"	6

NOTE: 1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER

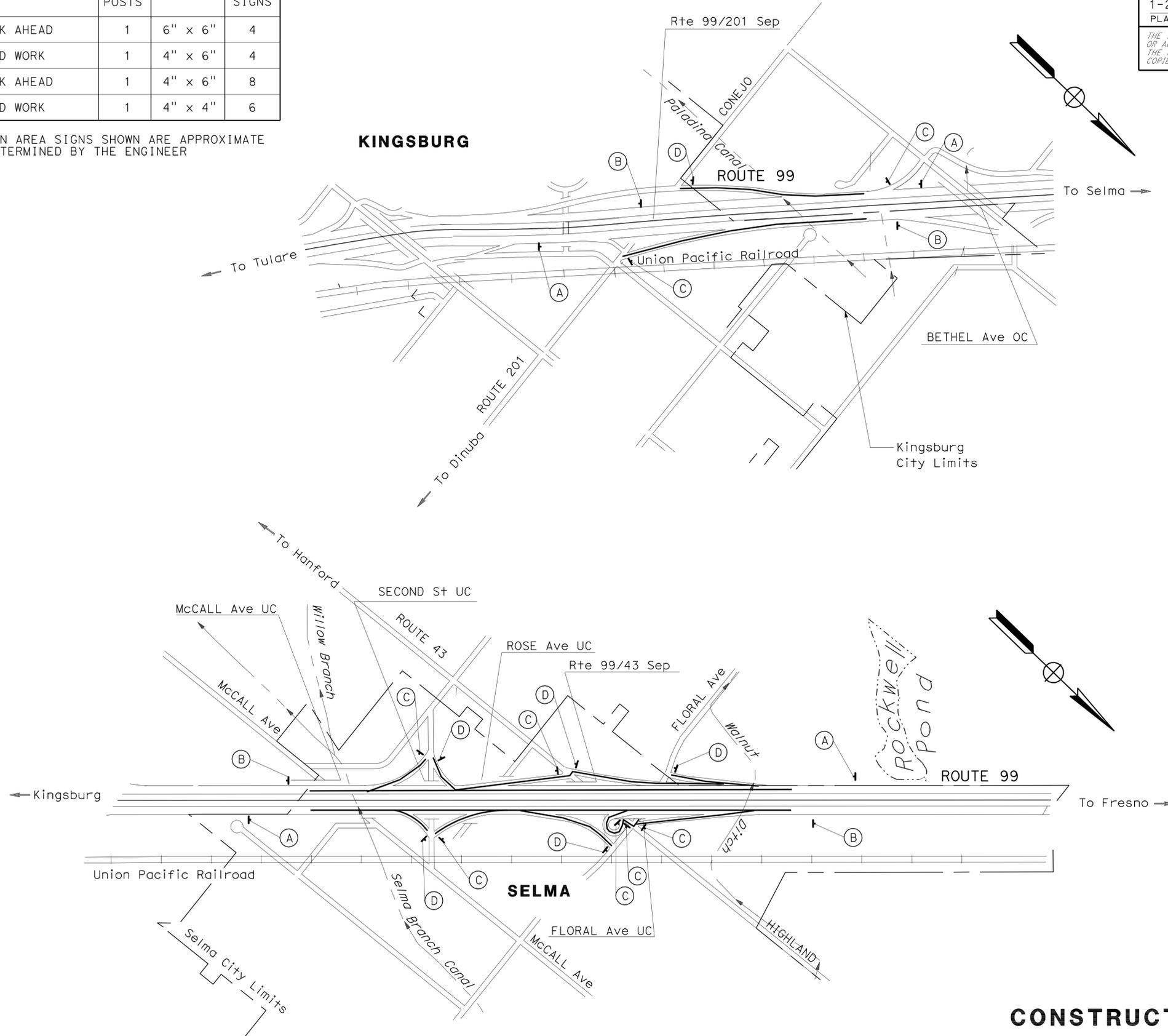
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	41	58

Andrey Chevychalov 08-07-08
 REGISTERED CIVIL ENGINEER DATE
 1-26-09
 PLANS APPROVAL DATE

ANDREY CHEVYCHALOV
 No. 68378
 Exp. 9-30-09
 CIVIL

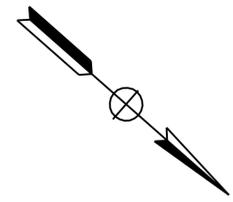
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 MOHAMMED QATAMI
 FUNCTIONAL SUPERVISOR
 ANDREY CHEVYCHALOV
 REGISTERED CIVIL ENGINEER
 D. PHENGDARA
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVIS

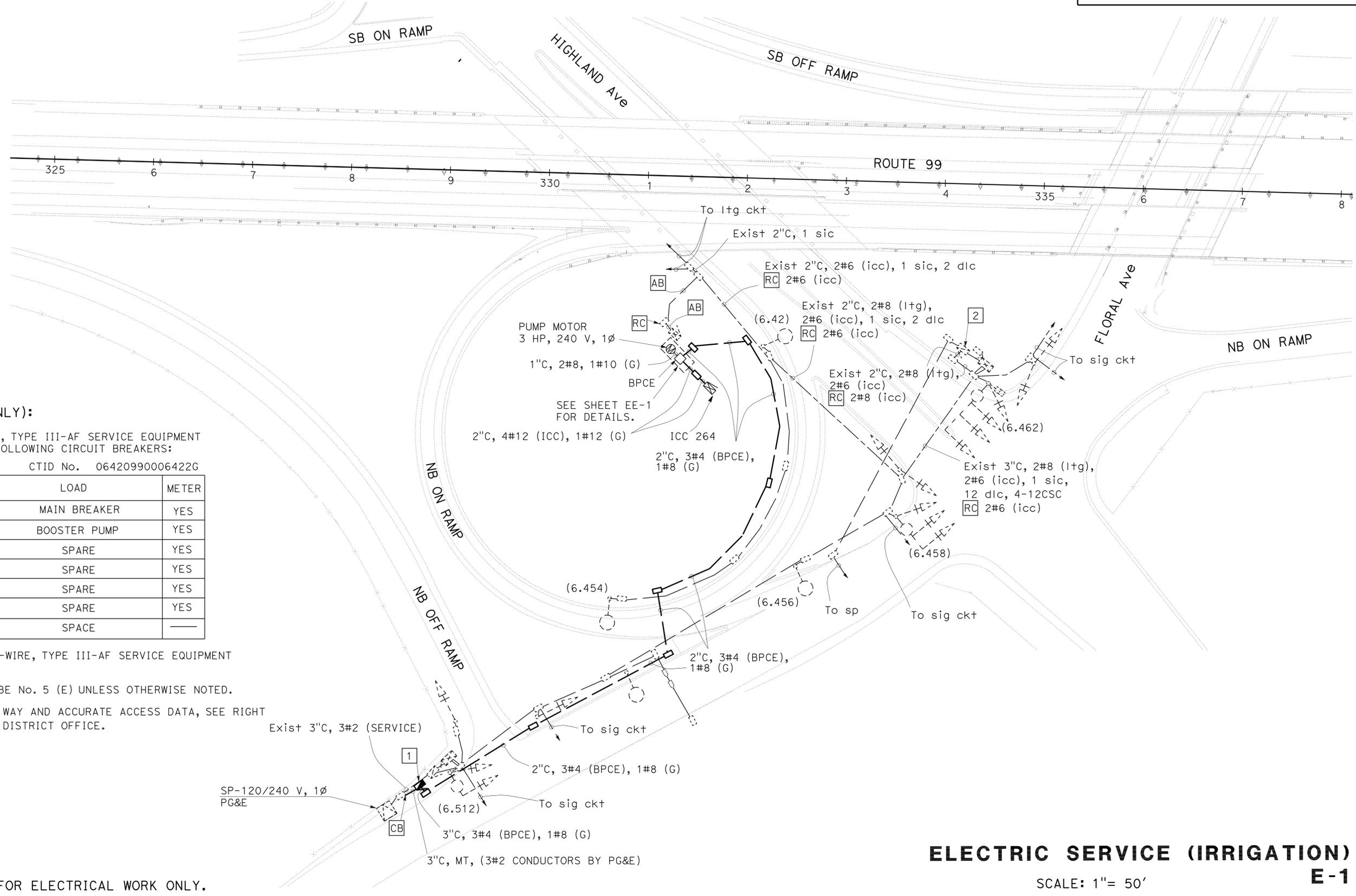


CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.



ABBREVIATIONS:
PG&E - PACIFIC GAS AND ELECTRIC COMPANY
CTID - CALTRANS IDENTIFICATION
BPCE - BOOSTER PUMP CONTROL ENCLOSURE



NOTES (THIS SHEET ONLY):

1 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:
CTID No. 06420990006422G

AMPERES	VOLTS	POLES	LOAD	METER
200	240	2	MAIN BREAKER	YES
60	240	2	BOOSTER PUMP	YES
20	120	1	SPARE	YES
60	240	2	SPARE	YES
20	120	1	SPARE	YES
60	240	2	SPARE	YES
—	—	6	SPACE	—

- 2 Exist 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE.
3. ALL PULL BOXES SHALL BE No. 5 (E) UNLESS OTHERWISE NOTED.
4. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

DESIGNED BY: OMAR MENDOZA
CHECKED BY: RAJPREET SINGH

REVISOR: OMAR MENDOZA
DATE: 10-17-08

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

ELECTRIC SERVICE (IRRIGATION)
E-1

SCALE: 1" = 50'

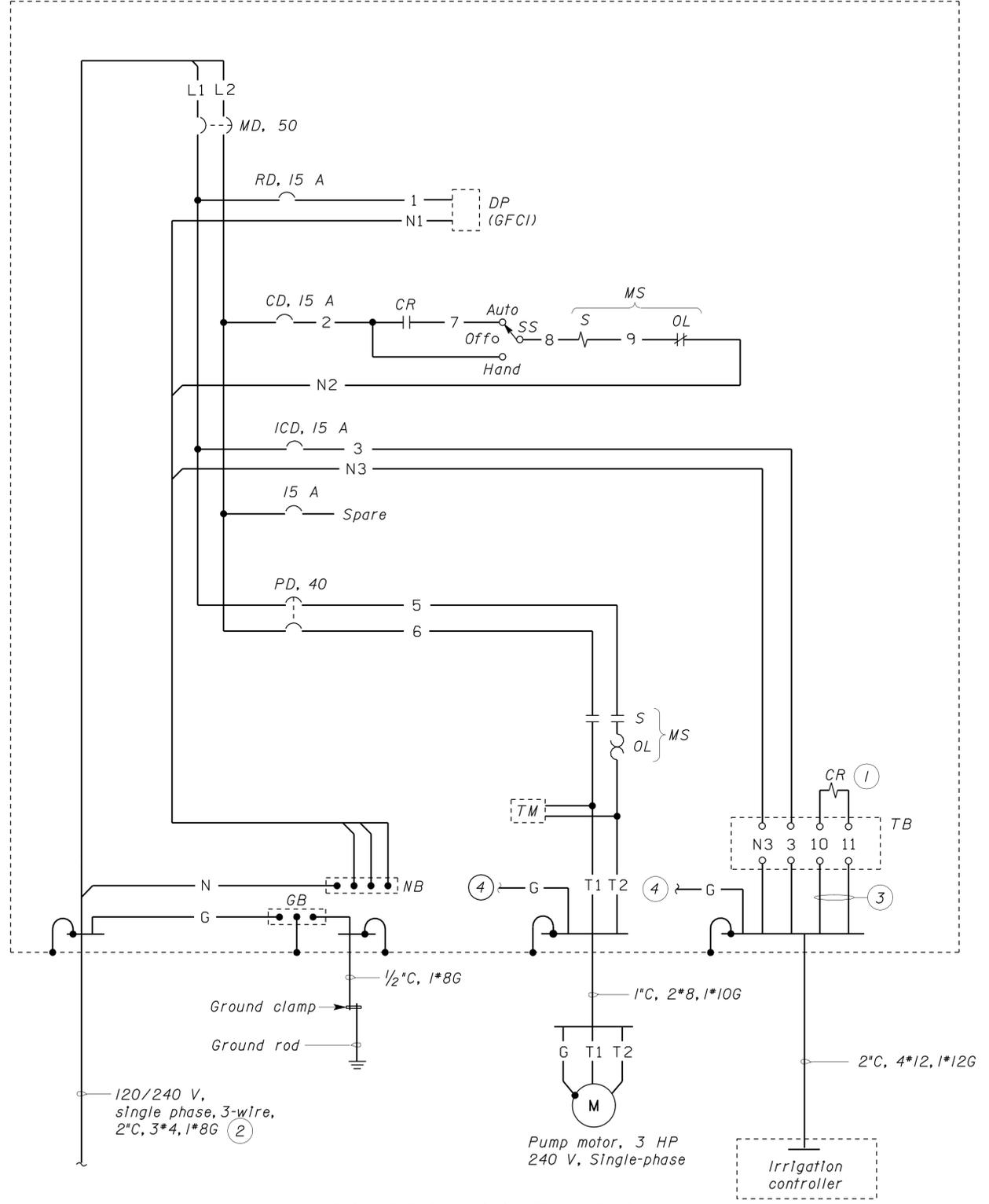
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	RI.0/7.4	43	58

Christine H. Mamaril
 REGISTERED ELECTRICAL ENGINEER DATE 8-21-08
 No. 12801
 Exp. 9-30-10
 ELEC
 STATE OF CALIFORNIA

1-26-09
 PLANS APPROVAL DATE

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Booster Pump Control Enclosure (BPCE)



CONTROL SCHEMATIC

General Notes:

- A. For exact location of pump, electrical equipment enclosure and irrigation controller, see Irrigation Plans and Mechanical Plan.
- B. Pull boxes in between the electrical equipment enclosure and irrigation controller are not shown. See Electrical "E" sheets.

Notes:

- ① Pump control relay, 24 Volts AC coil.
- ② To Service Equipment Enclosure. For continuation, see Electrical "E" sheets.
- ③ To master valve/pump start terminals in the Irrigation controller.
- ④ Connect to ground bar.

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
CD	CONTROL DISCONNECT
CR	CONTROL RELAY
DP	DUPLEX PLUG RECEPTACLE
G	GROUND
GB	GROUND BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
ICD	IRRIGATION CONTROLLER DISCONNECT
MD	MAIN DISCONNECT
MS	MOTOR STARTER
(N)	NEW
NB	NEUTRAL BAR
OL	OVERLOAD
PD	PUMP DISCONNECT
RD	RECEPTACLE DISCONNECT
S	STARTER COIL
SS	SELECTOR SWITCH
TB	TERMINAL BLOCK
TM	TIME METER
WP	WEATHERPROOF

LEGEND

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE POLE
	CIRCUIT BREAKER, DOUBLE POLE
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	SWITCH, SINGLE-POLE, 3-POSITION
	OPERATING COIL
	THERMAL OVERLOAD
	MOTOR
	GROUNDING ELECTRODE

DESIGN SUPERVISOR <i>J. S. Sandhu</i> DESIGN ENGINEER <i>Jaswinder K. Sandhu</i>	DESIGN	BY C. H. Mamaril	CHECKED J. S. Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	BOOSTER PUMP ELECTRICAL SYSTEM	SHEET OF					
	DETAILS	BY Ed D. Tapalla 4-08	CHECKED C. H. Mamaril			POST MILE			SCHEMATIC DIAGRAM I EE-1				
QUANTITIES	BY C. H. Mamaril	CHECKED J. S. Sandhu	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 06341 EA 350711		DISREGARD PRINTS BEARING EARLIER REVISION DATES	7/7/08	8/7/08	8/21/08

DOES SD Imperial Rev. 9/02

19-001-2009 14153

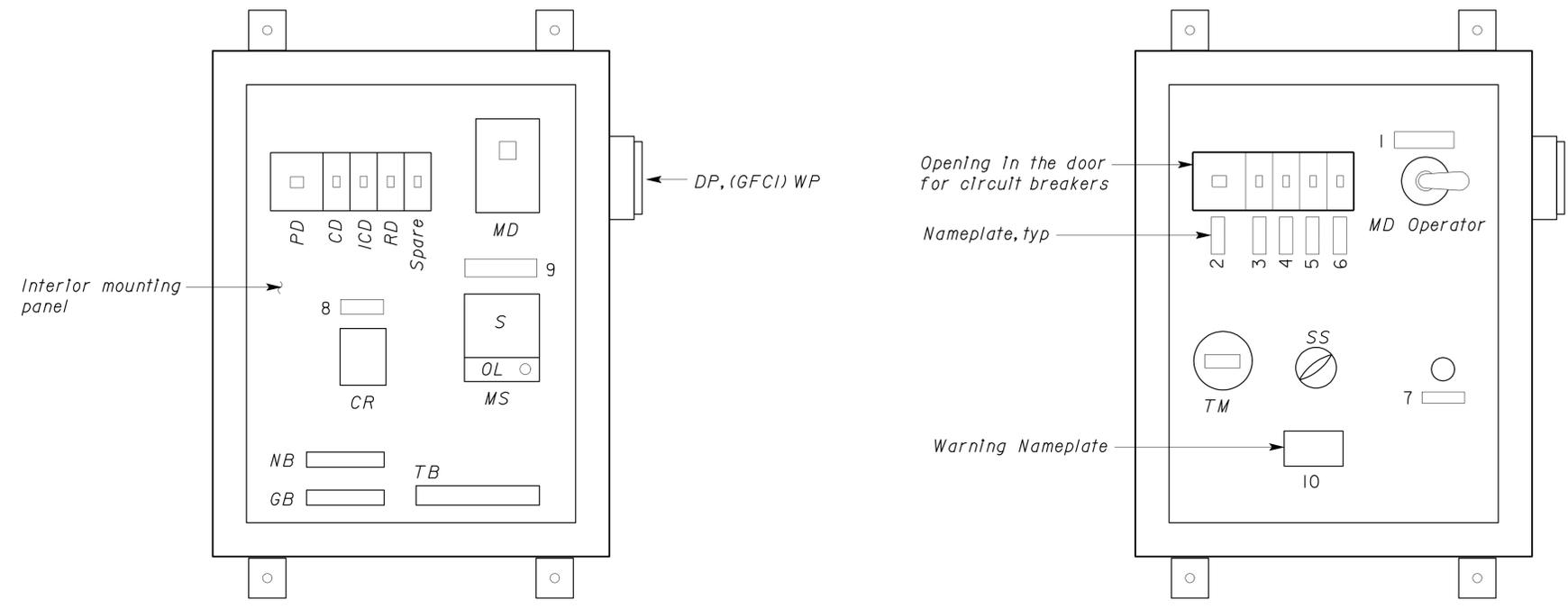
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	RI.0/7.4	44	58

Christine H. Mamaril
REGISTERED ELECTRICAL ENGINEER DATE 8-21-08

1-26-09
PLANS APPROVAL DATE

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(INTERIOR AND EXTERIOR DOOR NOT SHOWN)

(EXTERIOR DOOR NOT SHOWN)

ELEVATION
NO SCALE

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT (Inch)
1	MAIN DISC	1
2	PUMP	1/2
3	CONTROL	1/2
4	IRR CONT	1/2
5	RECEP	1/2
6	SPARE	1/2
7	OL RESET	1/2
8	CR	1/2
9	MOTOR STARTER	1/2

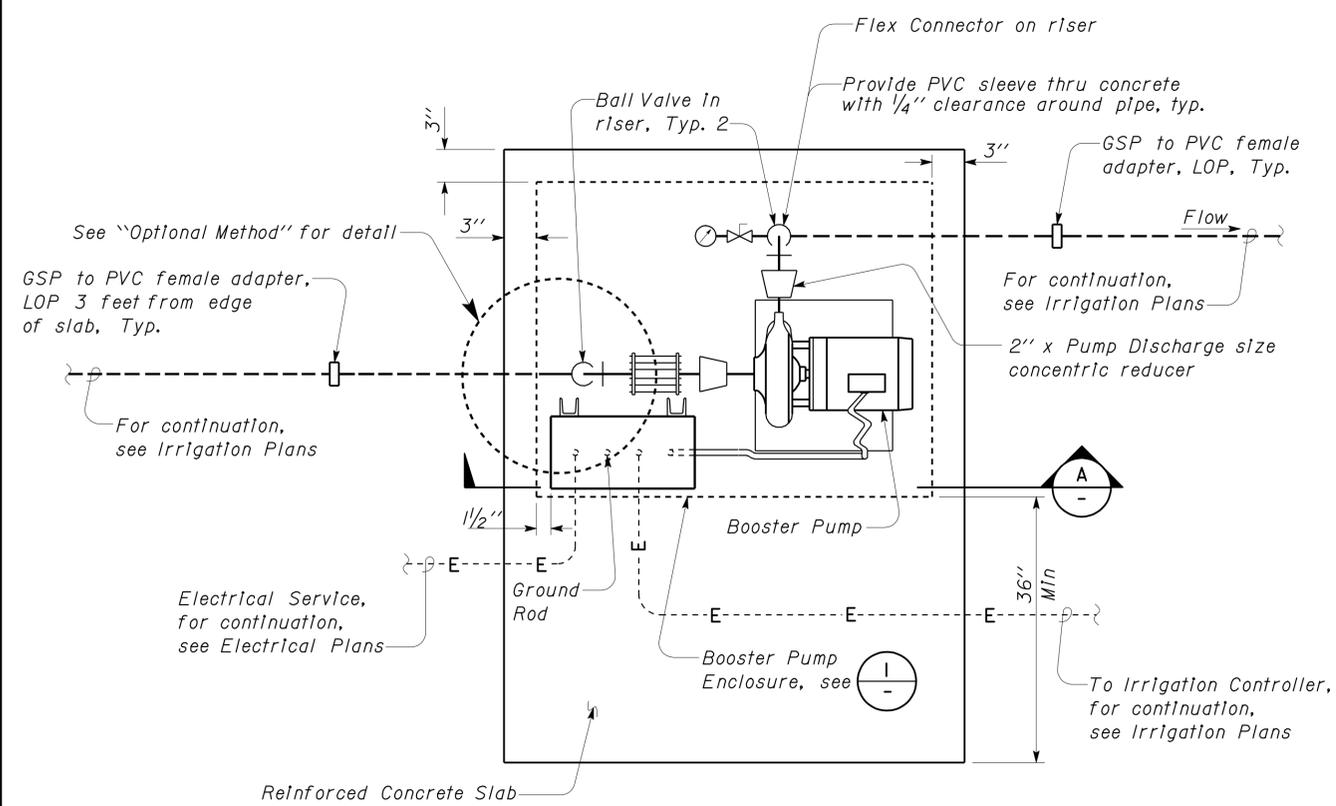
WARNING NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT (Inch)
	*	
10	PUMP DISCONNECT DOES NOT DE-ENERGIZE CONTROL CIRCUIT	1/2

* White letters against red background

DESIGN	BY <i>C. H. Mamaril</i>	CHECKED <i>J. S. Sandhu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	BOOSTER PUMP ELECTRICAL SYSTEM	SHEET EE-2		
	DETAILS	BY <i>Ed D. Tapalla 4-08</i>			CHECKED <i>C. H. Mamaril</i>			POST MILE	BOOSTER PUMP CONTROL ENCLOSURE
	QUANTITIES	BY <i>C. H. Mamaril</i>			CHECKED <i>J. S. Sandhu</i>				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	CU 06341 EA 350711	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

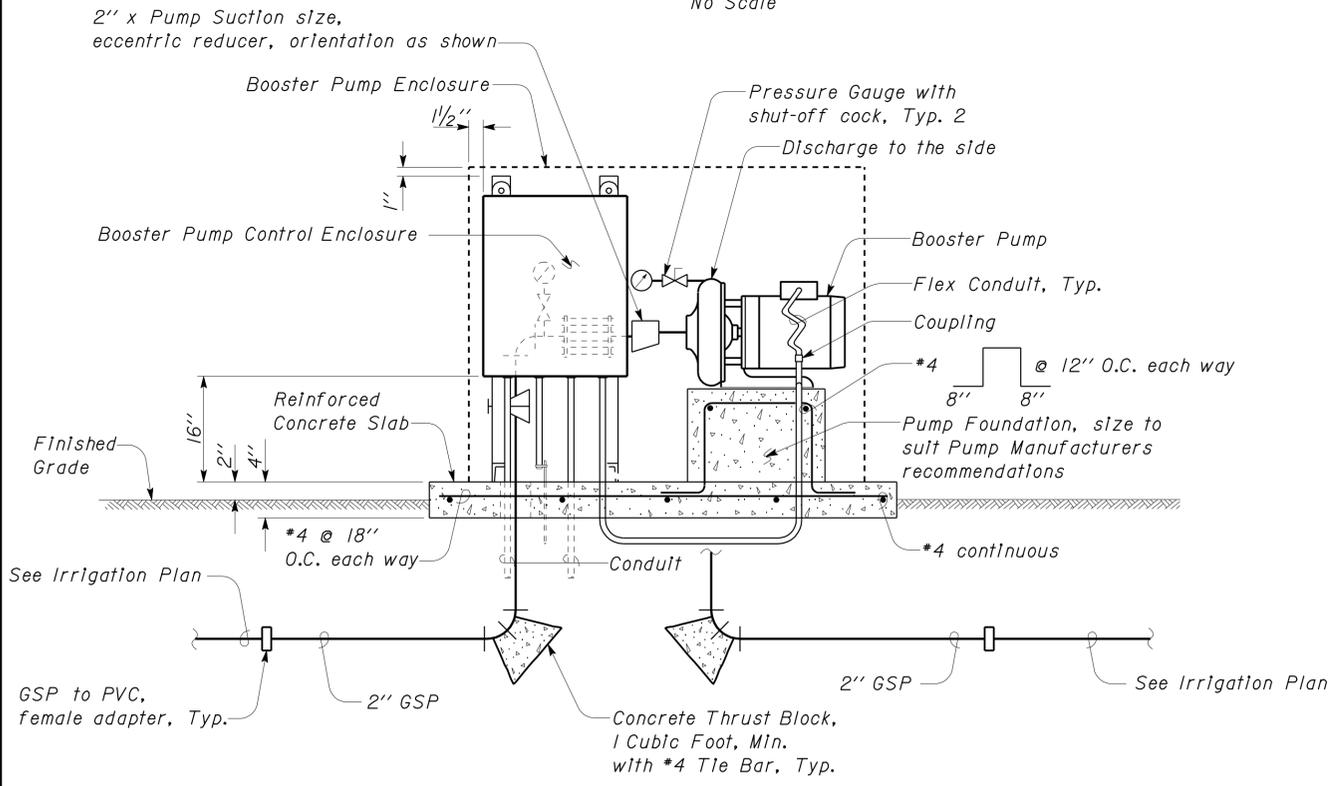
ABBREVIATIONS:

- GSP Galvanized Steel Pipe
- gpm gallons per minute
- HP horsepower
- LOP Limit of Payment
- Max Maximum
- Min Minimum
- O.C. On Center
- PVC Polyvinyl Chloride
- Typ Typical



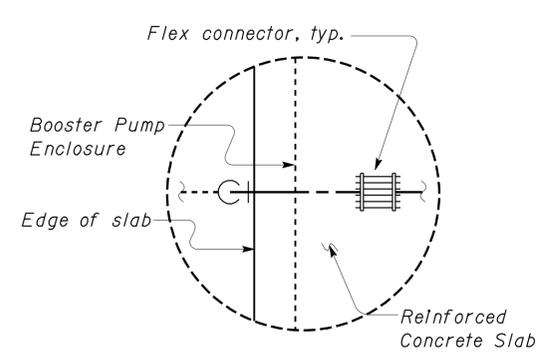
PLAN

No Scale



A SECTION

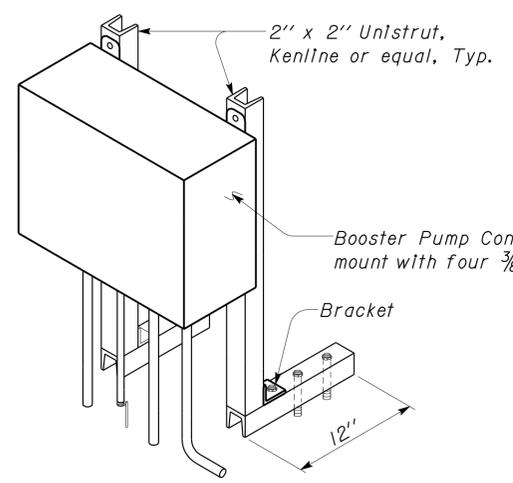
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"OPTIONAL METHOD"

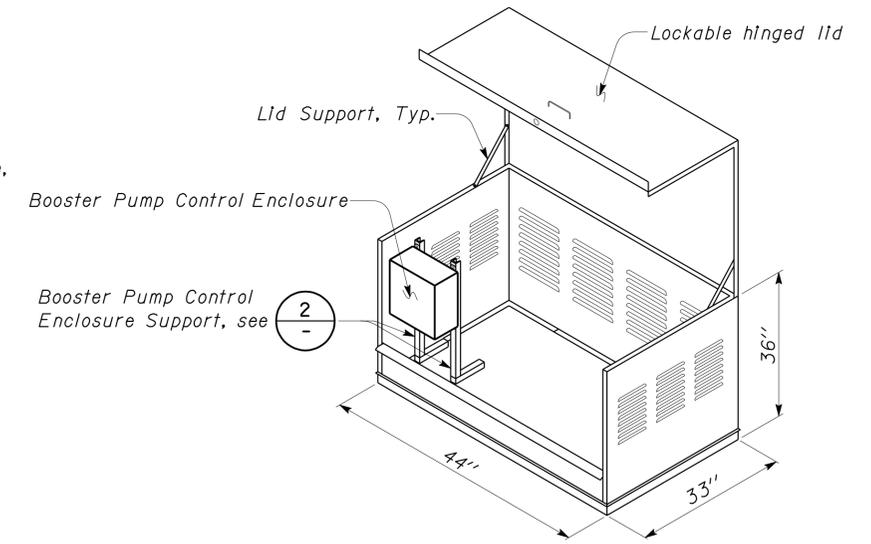
NO SCALE

Note: Typical at suction and discharge connection



2 BOOSTER PUMP CONTROL ENCLOSURE SUPPORT

NO SCALE



1 BOOSTER PUMP ENCLOSURE

No Scale

NOTES:

1. Install 4 Square Feet of louvers on enclosure.
2. For size of conduit and conductors, see "Electrical Plans"
3. Install six 3/8" diameter Stainless Steel Expansion Anchors to secure Booster Pump Enclosure to the concrete. Place two flat washers between box and concrete at each location.
4. Install four 1/2" diameter Stainless Steel Expansion Anchors to secure Electrical Equipment support to the concrete.

PUMP SCHEDULE				
PUMP LOCATION	PUMPING RATE gpm	TOTAL DYNAMIC HEAD ft. **	HP	VOLT/PHASE
Location 1	45	115	3	230/1

**If a pre-packaged Booster Pump System is being provided, see the specifications for possible modifications to the dynamic head requirement

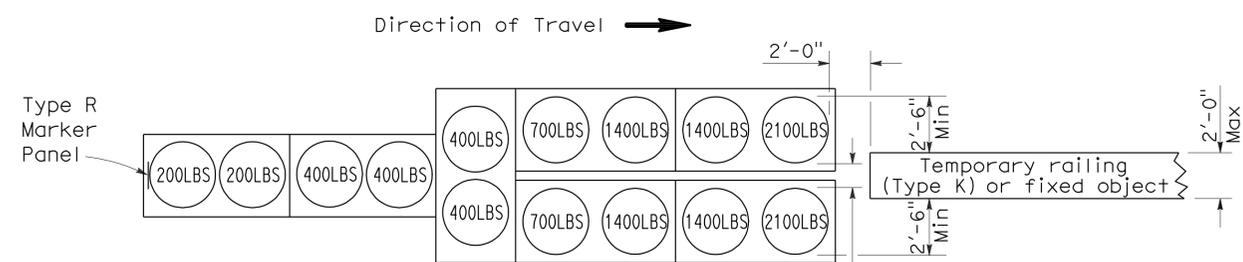
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN SUPERVISOR Alan M. Torres	DESIGN	BY Alan Torres	CHECKED Shahjahan Ali	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	BOOSTER PUMP SYSTEM BOOSTER PUMP DETAILS	SHEET
	DETAILS	BY Alan Torres	CHECKED Shahjahan Ali			KM POST		M-1
DESIGN ENGINEER	QUANTITIES	BY Alan Torres	CHECKED Shahjahan Ali	CU 06341 EA 350711	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF

DS OSD metric Rev. 11/98
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 DATE PLOTTED => 19-OCT-2009
 TIME PLOTTED => 14:29
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 0 1 2 3 4
 08-06-08 08-21-08
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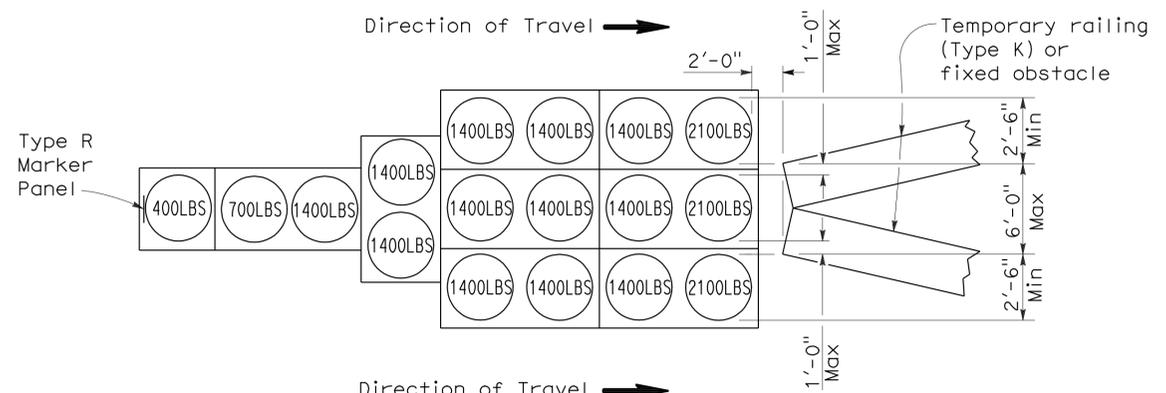
To accompany plans dated 1-26-09

2006 REVISED STANDARD PLAN RSP T1A



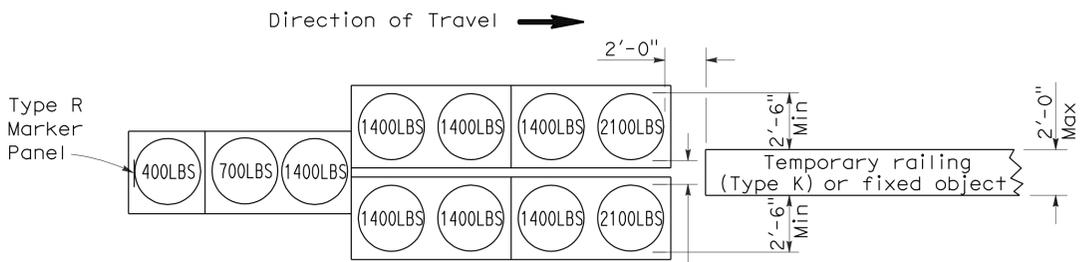
ARRAY 'TU14'

Approach speed 45 mph or more



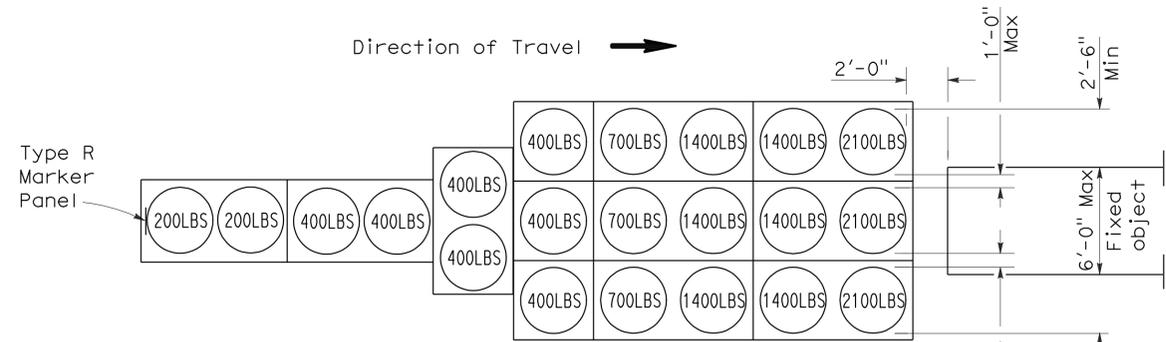
ARRAY 'TU17'

Approach speed less than 45 mph



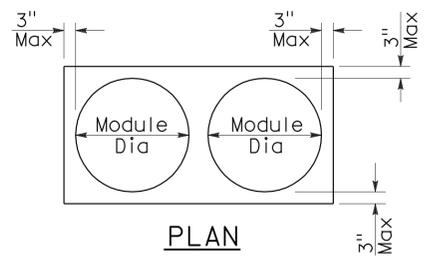
ARRAY 'TU11'

Approach speed less than 45 mph

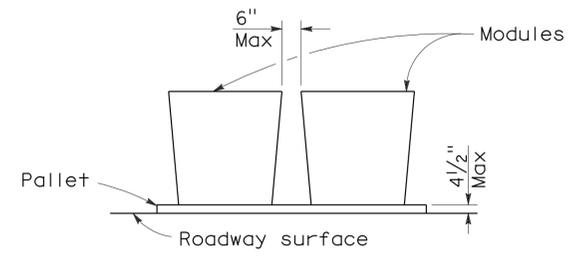


ARRAY 'TU21'

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
06	Fre	99	R1.0/7.4	47	58

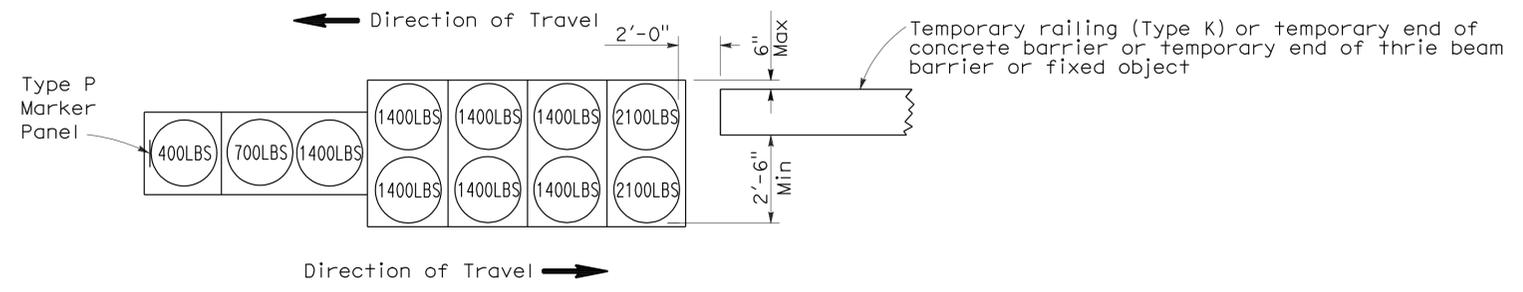
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

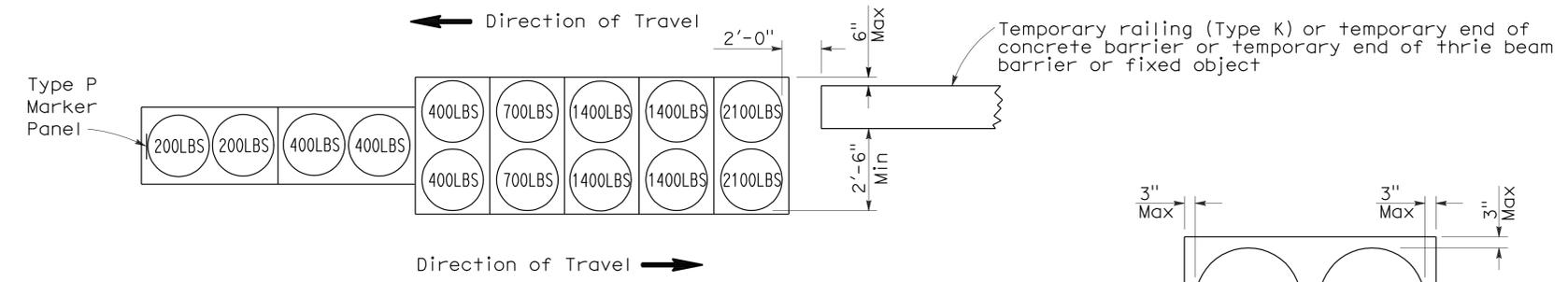
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To accompany plans dated 1-26-09



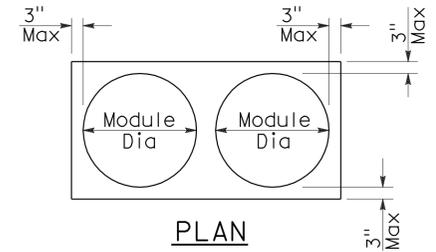
ARRAY 'TB11'

Approach speed less than 45 mph

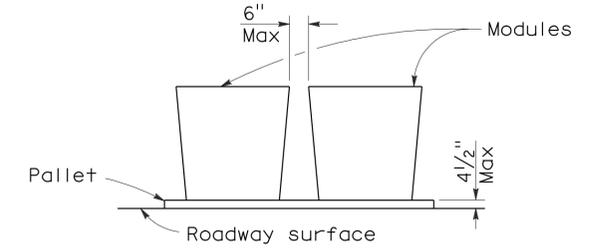


ARRAY 'TB14'

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
06	Fre	99	R1.0/7.4	48	58

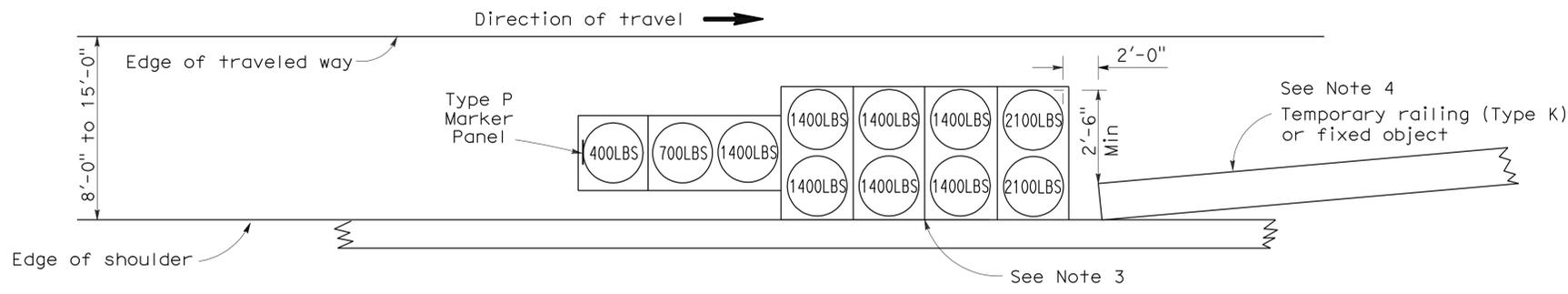
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

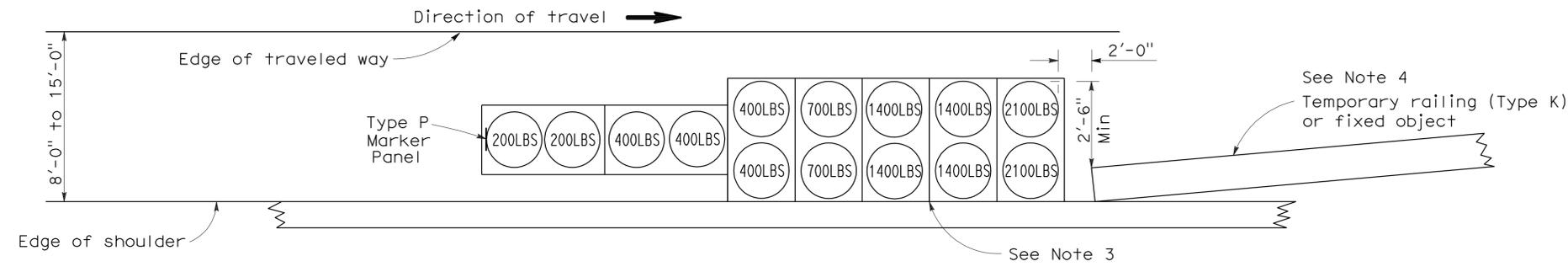
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 1-26-09



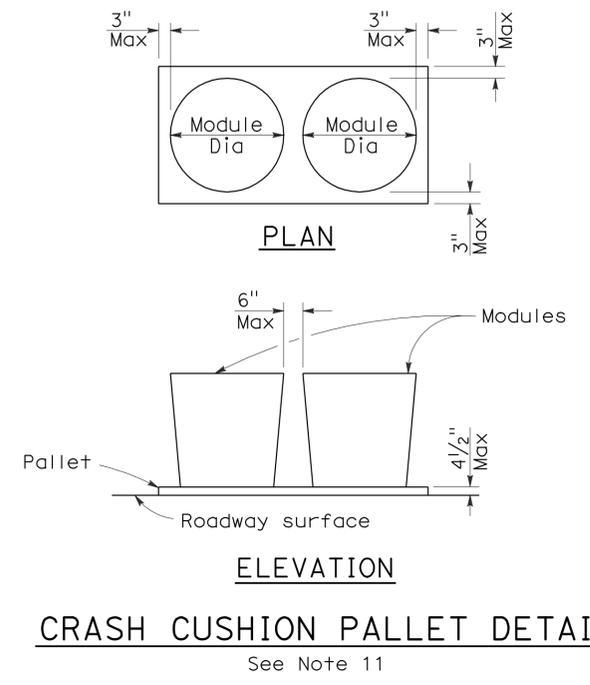
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

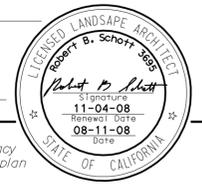
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

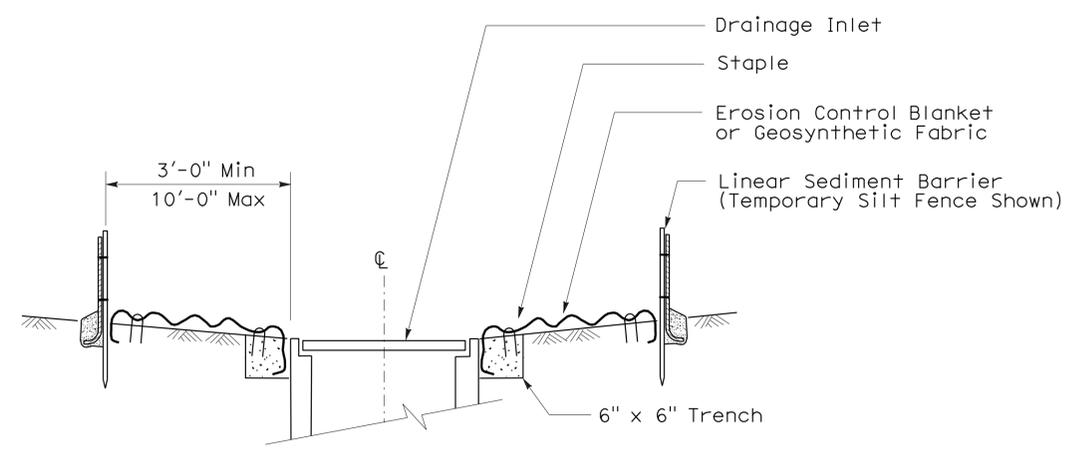
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	49	58

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 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.

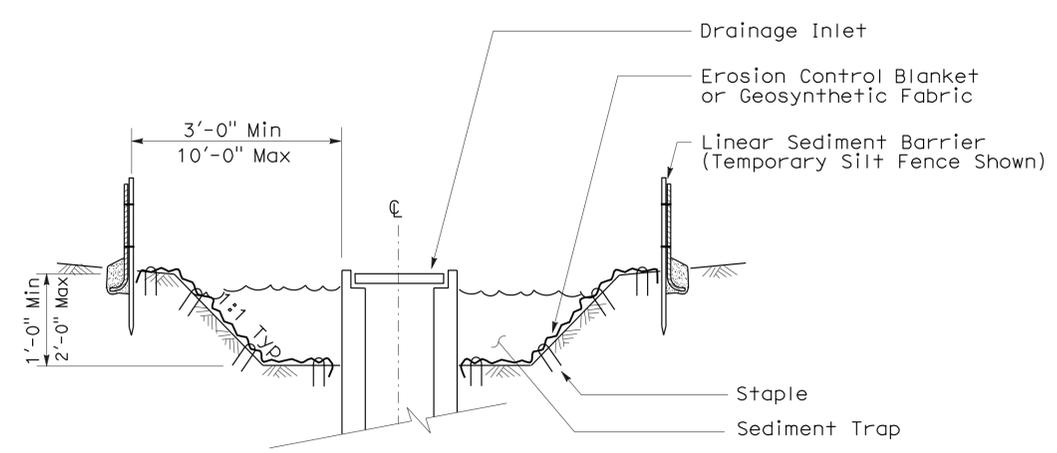


To accompany plans dated 1-26-09

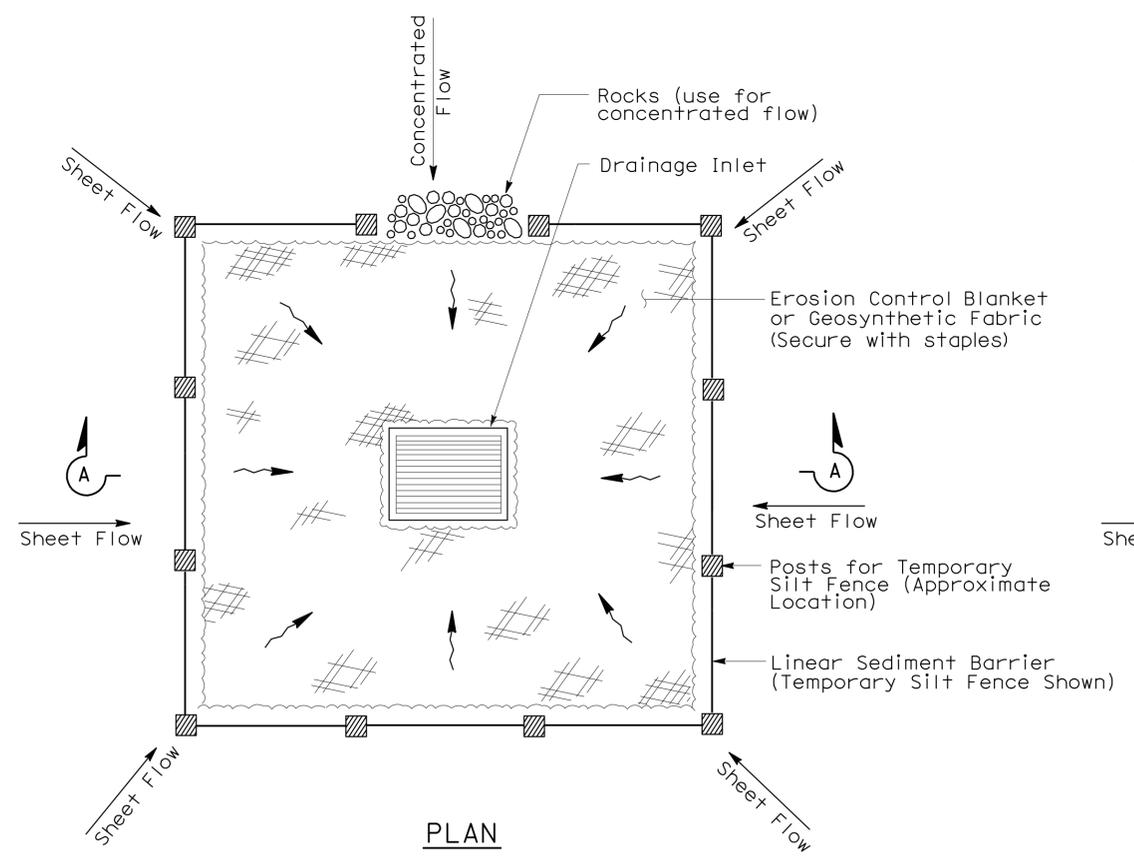
- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
 - Dimensions may vary to fit field conditions.



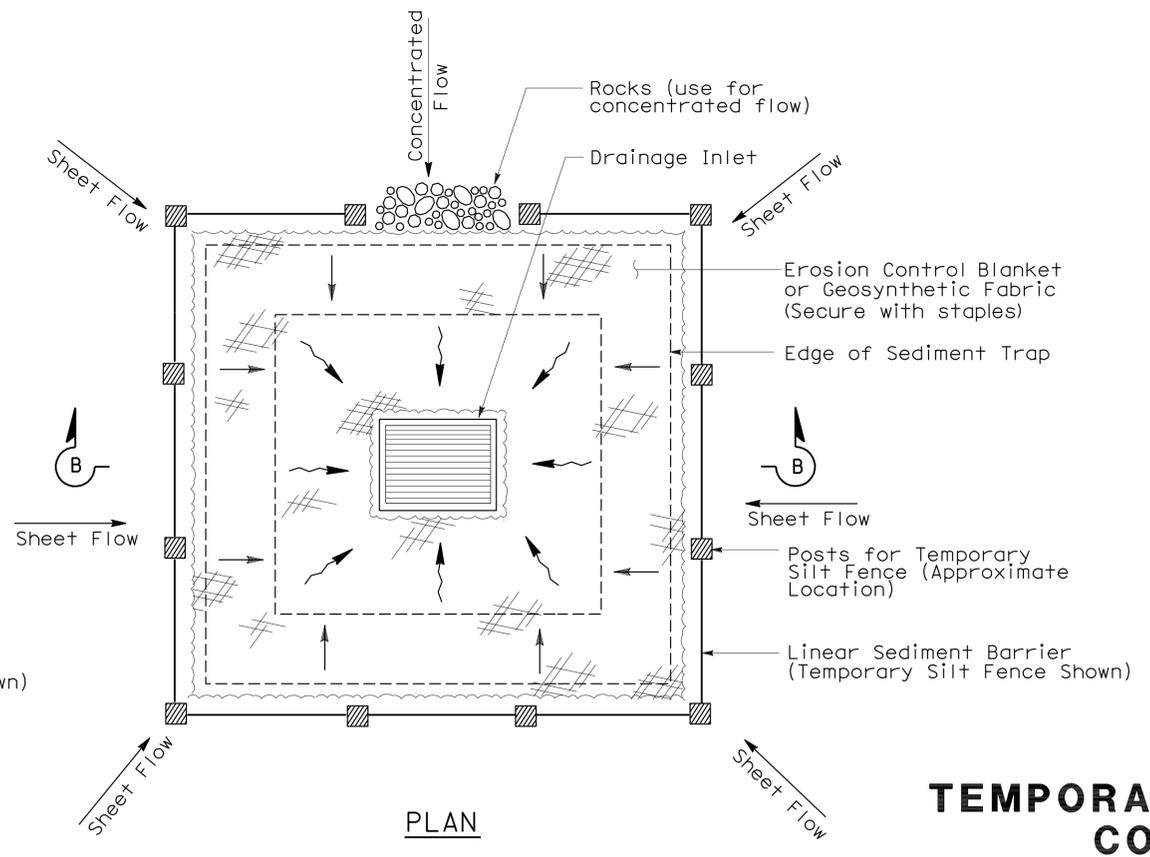
SECTION A-A



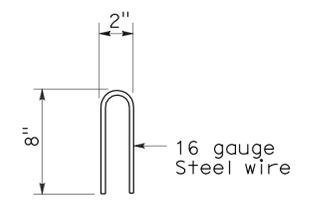
SECTION B-B



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.

2006 NEW STANDARD PLAN NSP T61

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	50	58

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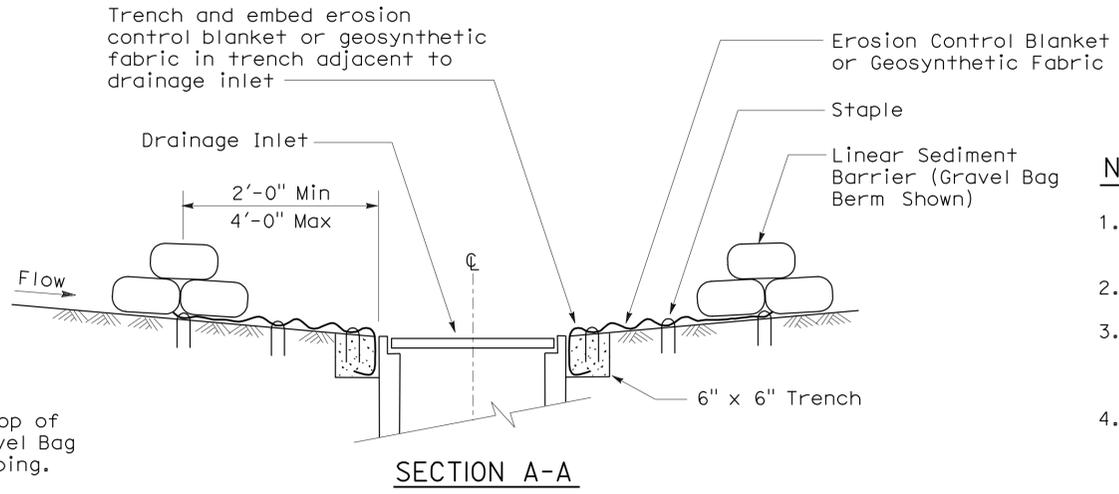
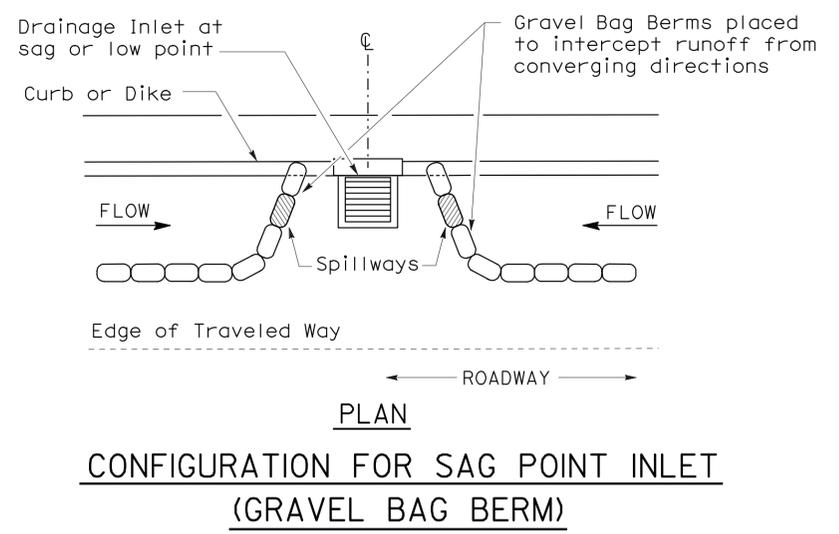


To accompany plans dated 1-26-09

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

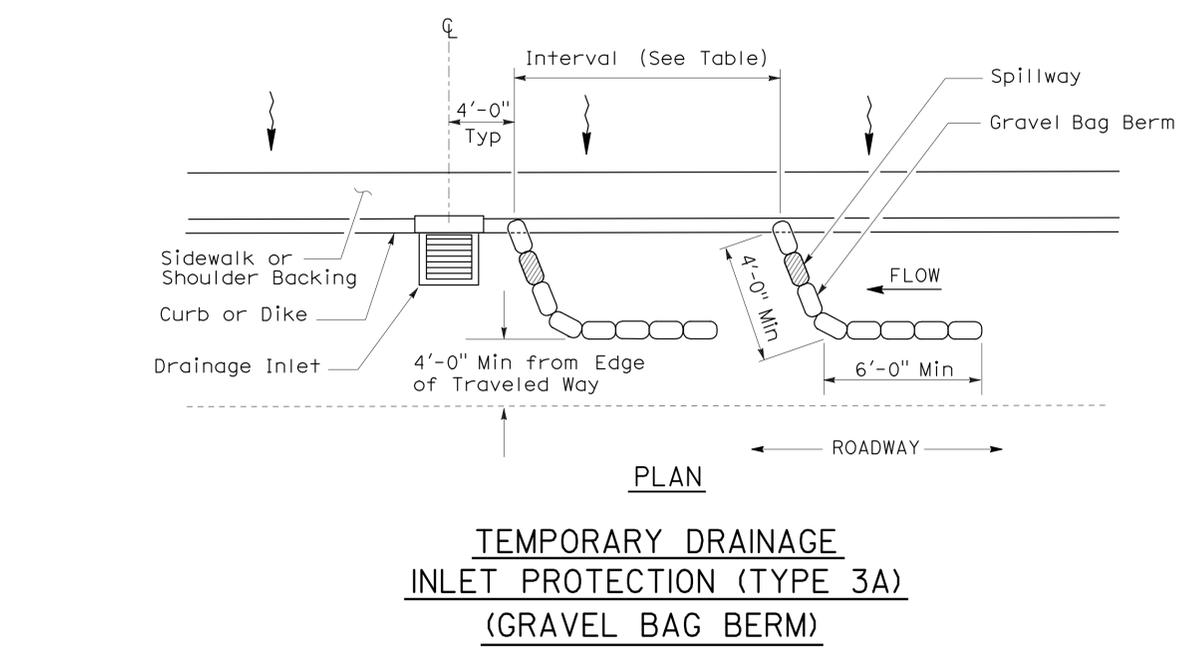
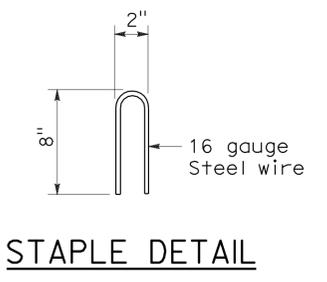
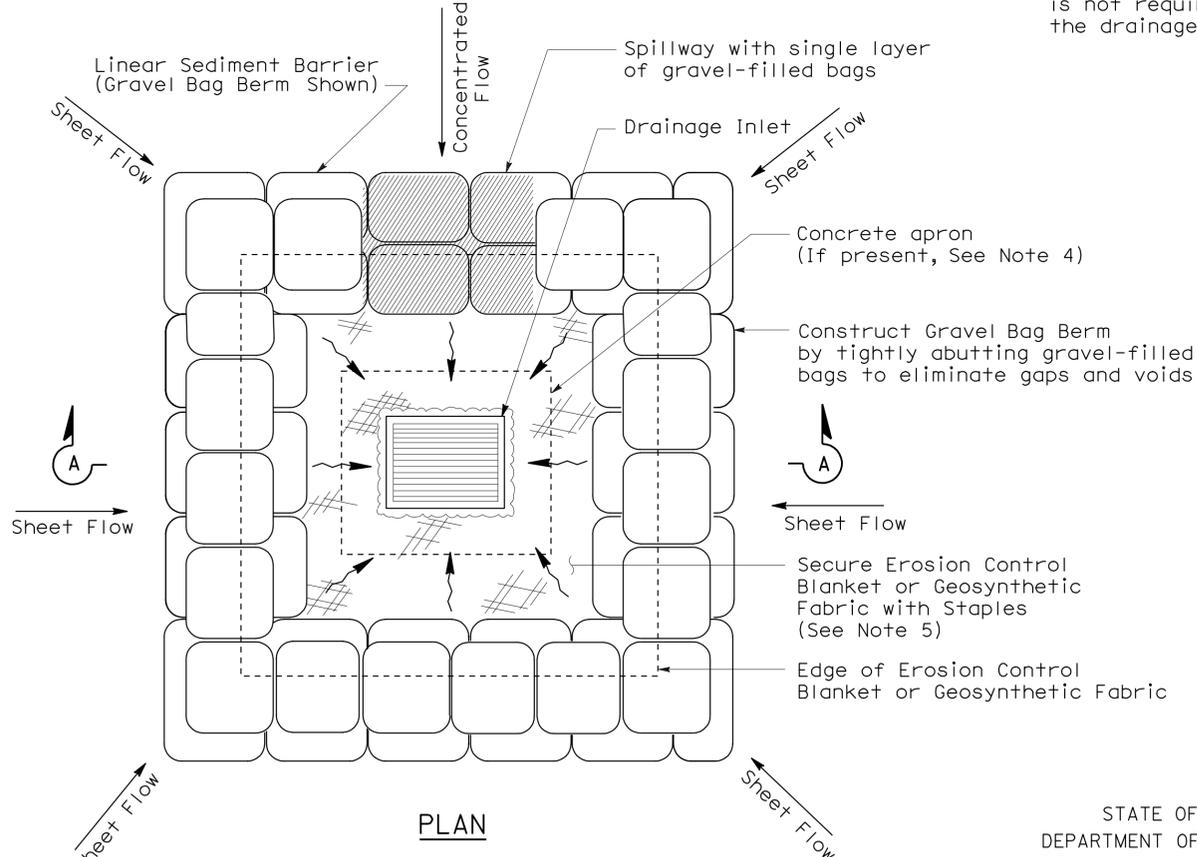
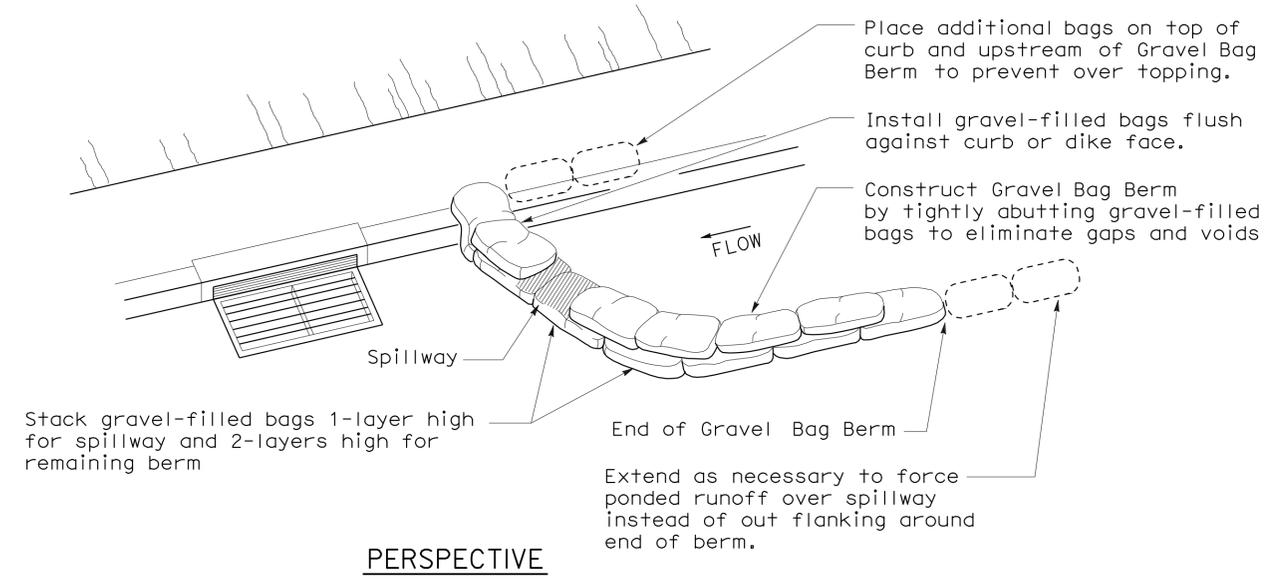
SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

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



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.



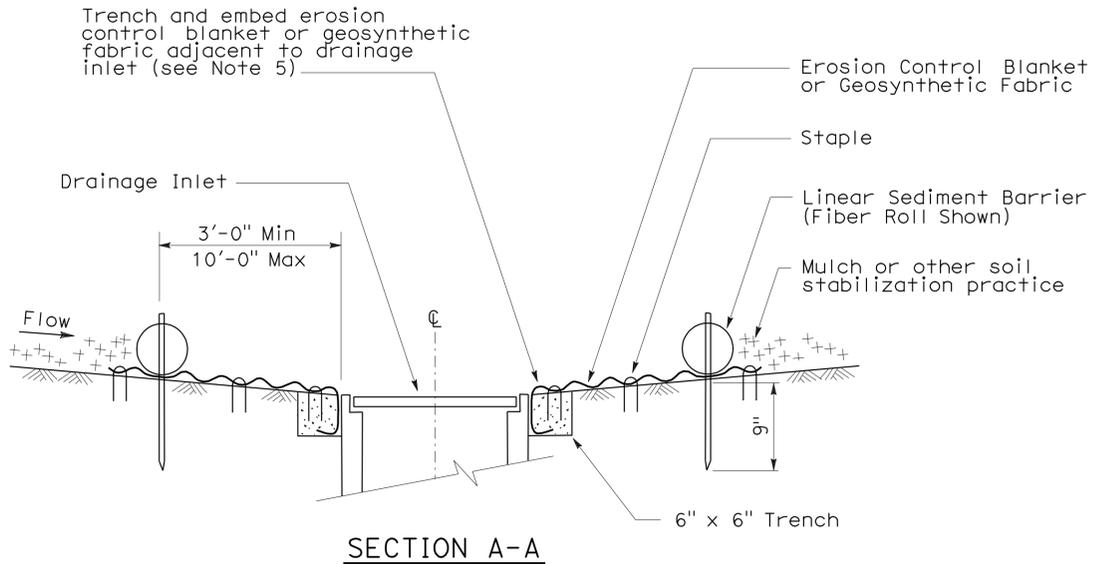
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

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

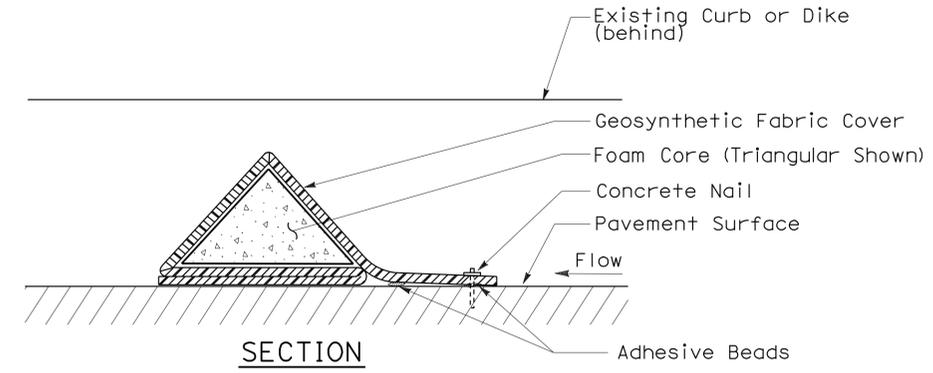
2006 NEW STANDARD PLAN NSP T62

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

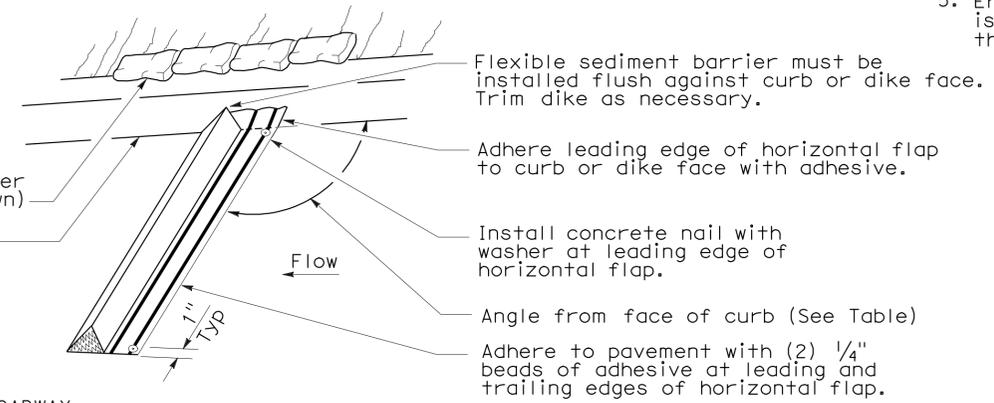
SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'



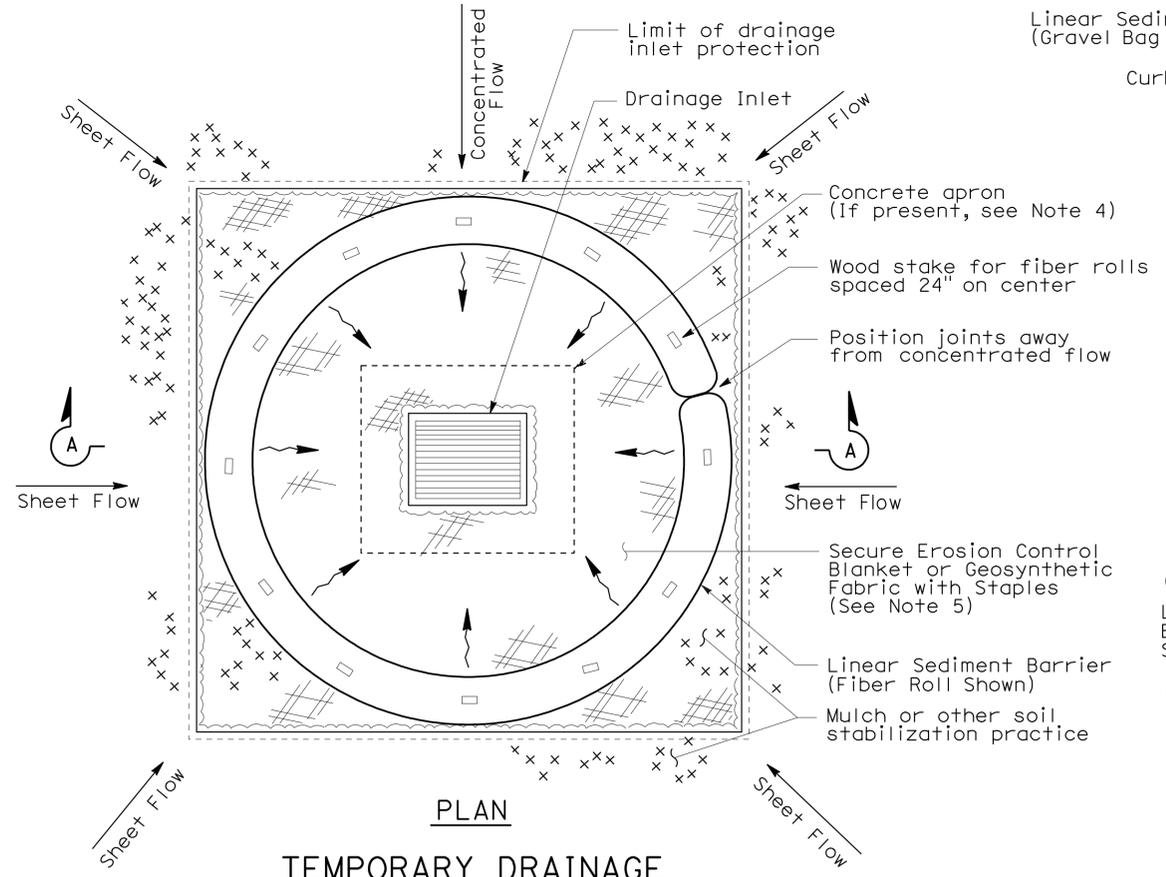
SECTION A-A



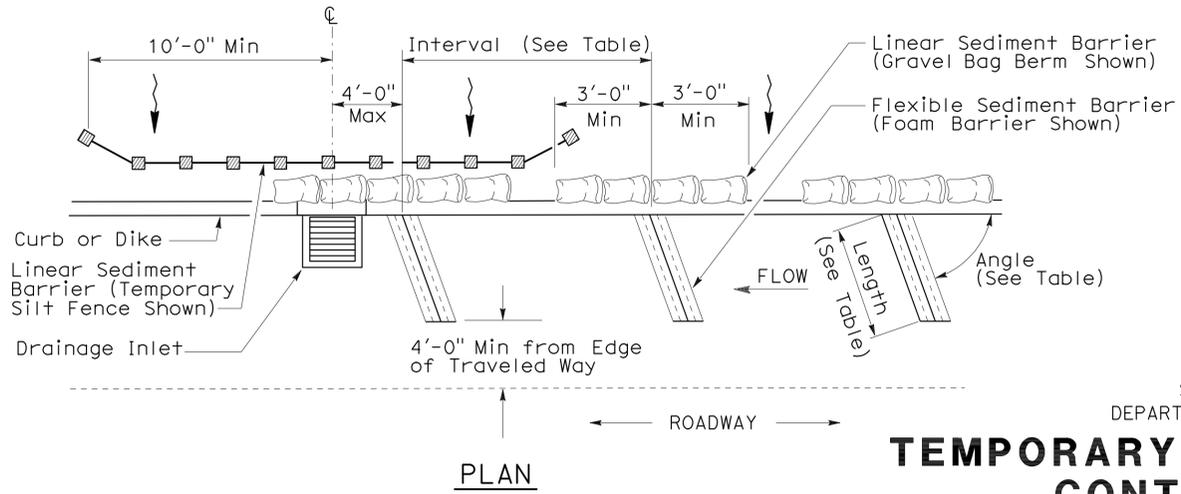
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



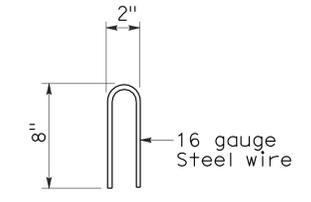
PERSPECTIVE



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



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



STAPLE DETAIL

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

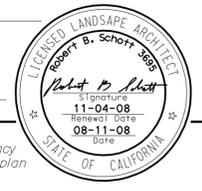
To accompany plans dated 1-26-09

NOTES:

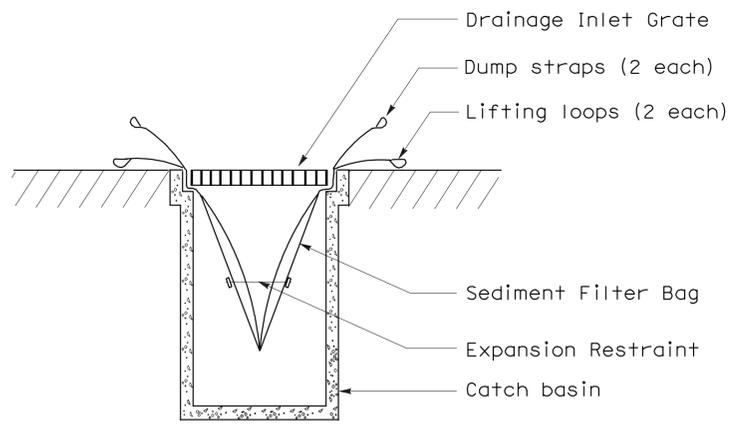
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	52	58

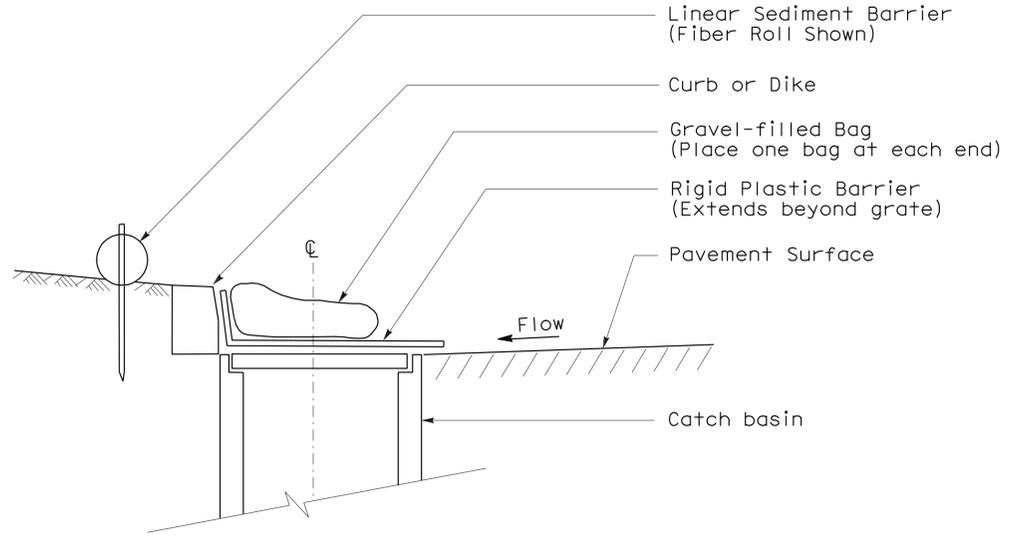
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
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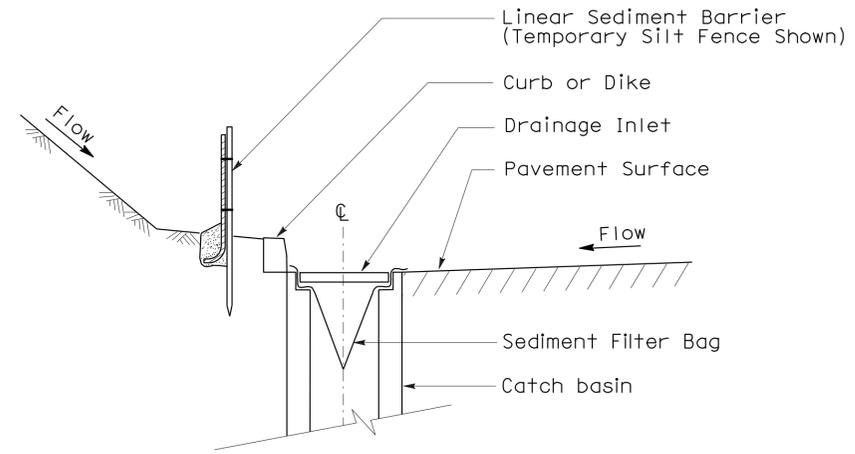
To accompany plans dated 1-26-09



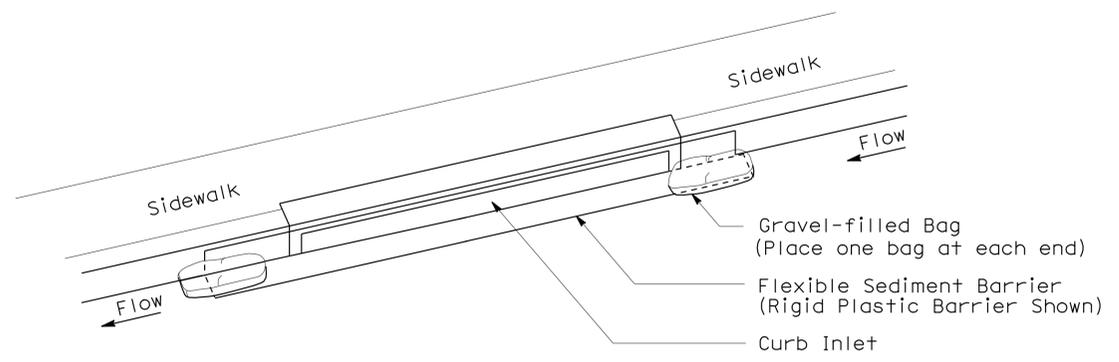
SECTION B-B
SEDIMENT FILTER BAG DETAIL



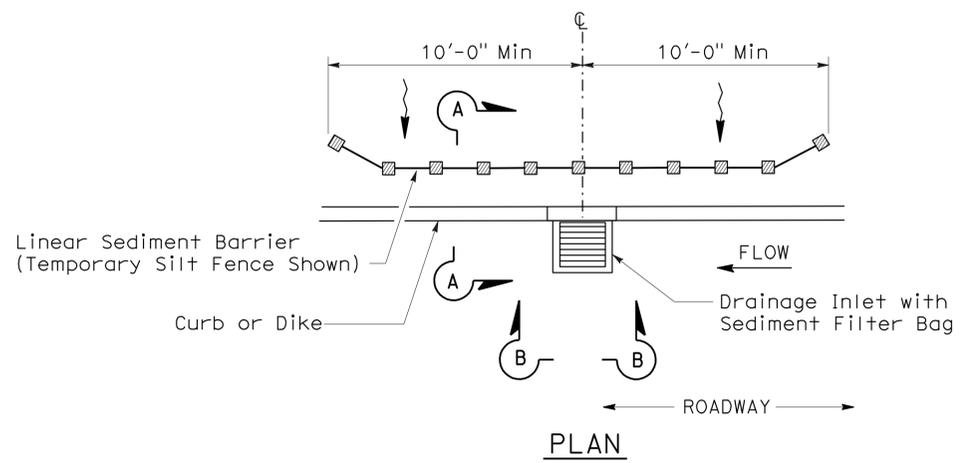
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



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:

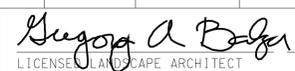
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	53	58


 LICENSED LANDSCAPE ARCHITECT
 March 7, 2008
 PLANS APPROVAL DATE
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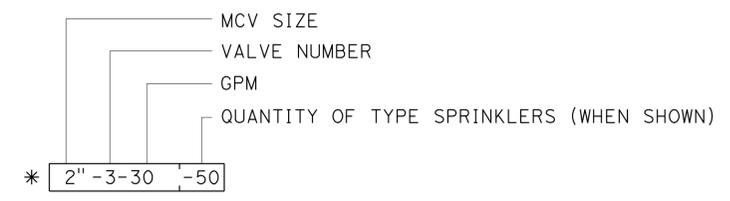
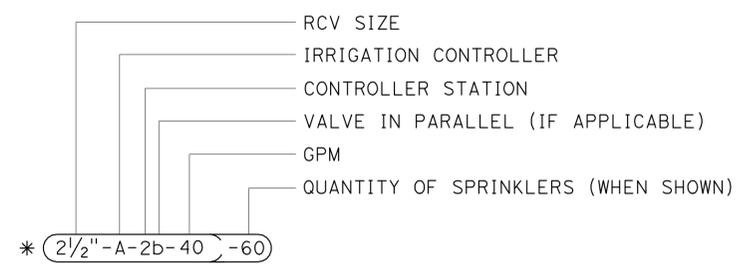


To accompany plans dated 1-26-09

EXISTING	PROPOSED	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (BPAE)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC) / IRRIGATION CONTROLLER (IC) (BATTERY)
		IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		SPRINKLER CONTROL CONDUIT (SCC)
		CONDUIT (COND)
		IRRIGATION SLEEVE
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (LATERAL)
		PLASTIC PIPE (IRRIGATION LINE)
		REMOTE CONTROL VALVE (RCV) / REMOTE CONTROL VALVE (MASTER) (RCVM)
		MANUAL CONTROL VALVE (MCV)
		VALVE ASSEMBLY UNIT (VAU)
		WYE STRAINER (WS)
		FILTER ASSEMBLY UNIT (FAU)
		GATE VALVE (GV)
		BALL VALVE (BV)

EXISTING	PROPOSED	ITEM DESCRIPTION
		QUICK COUPLER VALVE (QCV)
		CAM COUPLING ASSEMBLY (CCA)
		PRESSURE REDUCING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		NOZZLE LINE W/TURNING UNION
		IRRIGATION SYSTEM
		IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING

VALVE CODE



* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

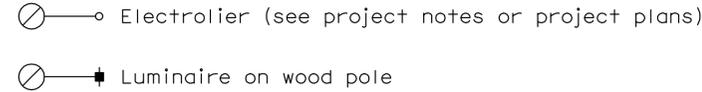
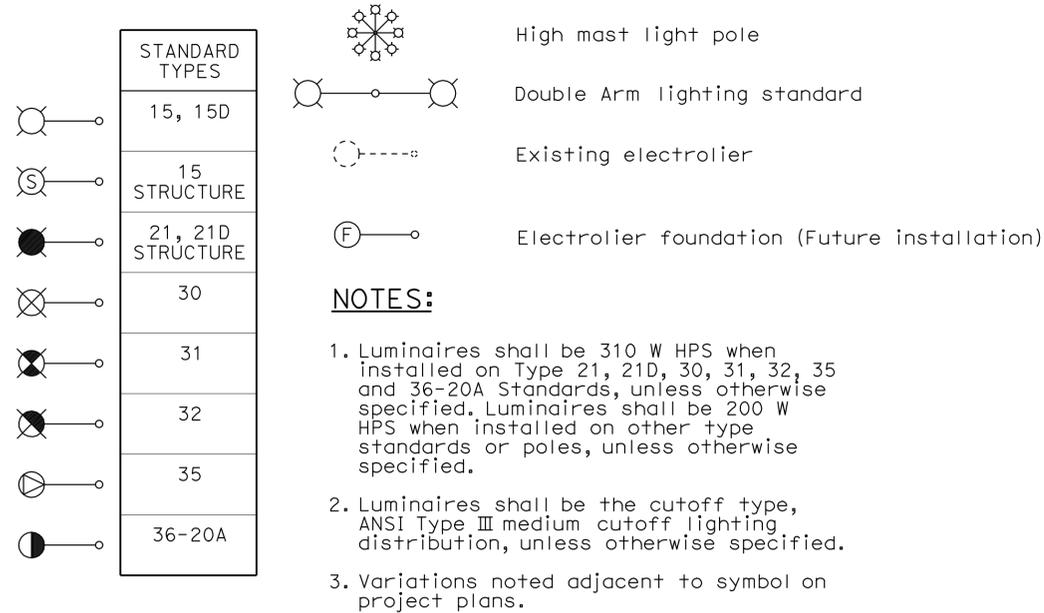
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PLANTING AND IRRIGATION SYMBOLS
NO SCALE

RSP H2 DATED MARCH 7, 2008 SUPERSEDES STANDARD PLAN H2
DATED MAY 1, 2006 - PAGE 202 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H2

2006 REVISED STANDARD PLAN RSP H2

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
06	Fre	99	R1.0/7.4	54	58

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

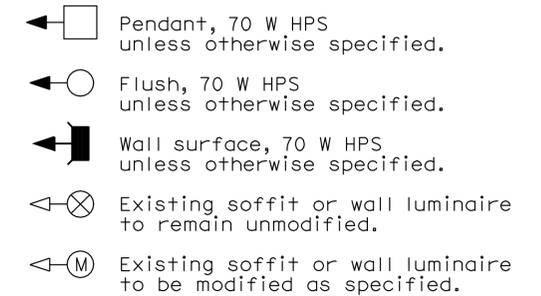
October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 1-26-09

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
06	Fre	99	R1.0/7.4	55	58

Jeffery 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
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

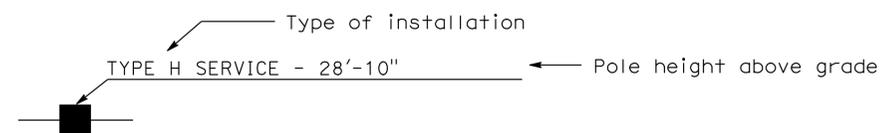
SIGNAL EQUIPMENT

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	
		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

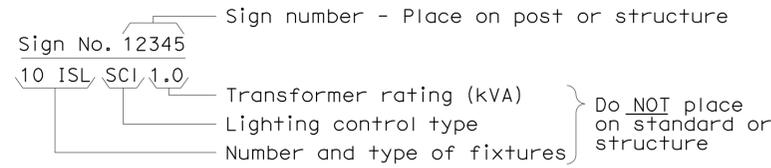
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

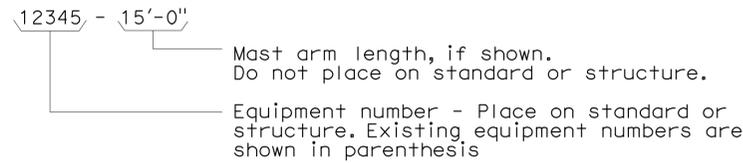
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

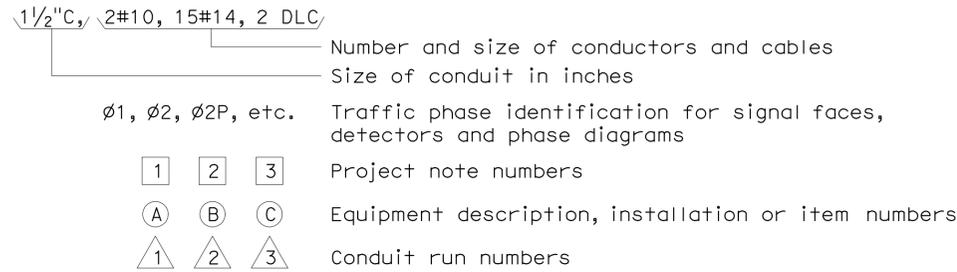
ILLUMINATED SIGN IDENTIFICATION NUMBER:



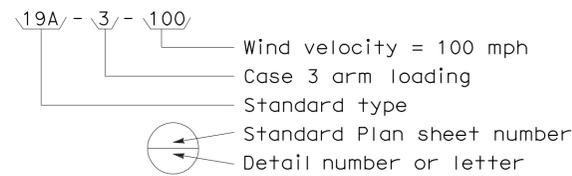
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



CONDUIT AND CONDUCTOR IDENTIFICATION:



SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
EMS	ems	Highway advisory radio pole and antenna
		Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

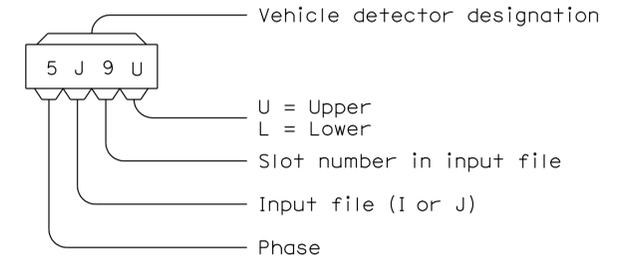
WIRING DIAGRAM LEGEND

P Pole	External conductor
CB Circuit breaker	Conductor or bus
A Ampere	Tie point
V Volt	Contactor coil
M Metered	Contactor, Contact NO
UM Unmetered	Terminal blocks
NB Neutral bus	Contactor, Contact NC
GB Ground bus	Enclosure bond
G Equipment grounding conductor	Grounding electrode
N Grounded conductor (Neutral)	Circuit breaker
	Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
		Pull box-Additional designations or descriptions
3 = No. 3 1/2 pull box		(C) = Communications pull box
5 = No. 5 pull box		(E) = Pull box with extension
6 = No. 6 pull box		(S) = Sprinkler control pull box
7 = No. 7 (Ceiling pull box)		(21) = Anchor bolts and conduit for future installation of Type 21 Standard
8 = No. 8 (Pendant soffit pull box)		(T) = Traffic pull box
9 = No. 9 pull box		
9A = No. 9A pull box		

VEHICLE DETECTORS



PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

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
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REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	R1.0/7.4	57	58

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

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.

To accompany plans dated 1-26-09

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)."

STATE OF CALIFORNIA
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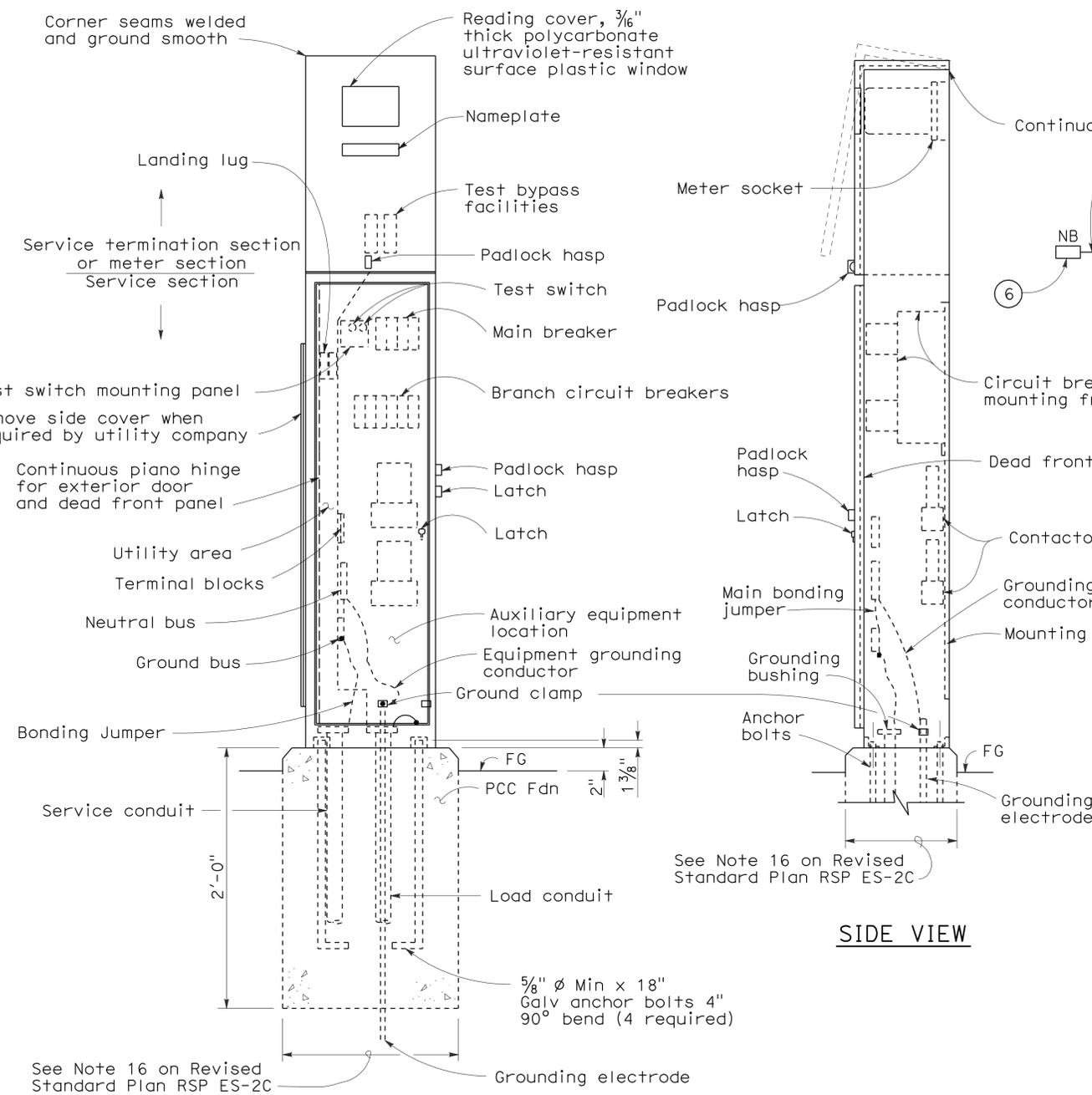
**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT NOTES
 TYPE III SERIES)**

NO SCALE

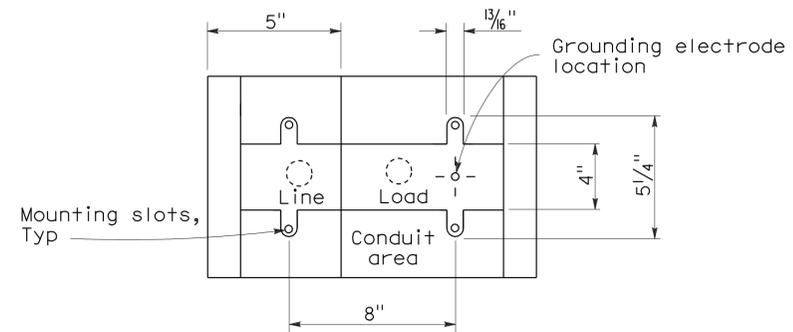
RSP ES-2C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2C
 DATED MAY 1, 2006 - PAGE 405 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-2C

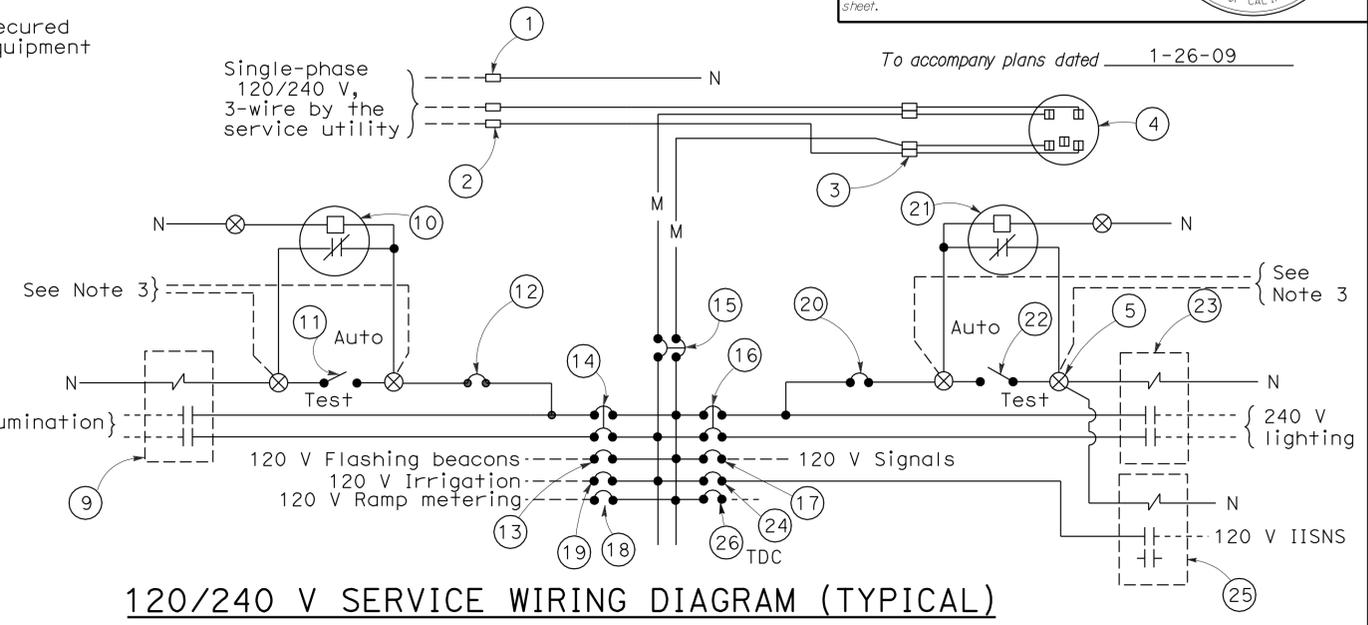
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TYPE III-AF SERVICE EQUIPMENT ENCLOSURE (TYPICAL)



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.

2006 REVISED STANDARD PLAN RSP ES-2D