Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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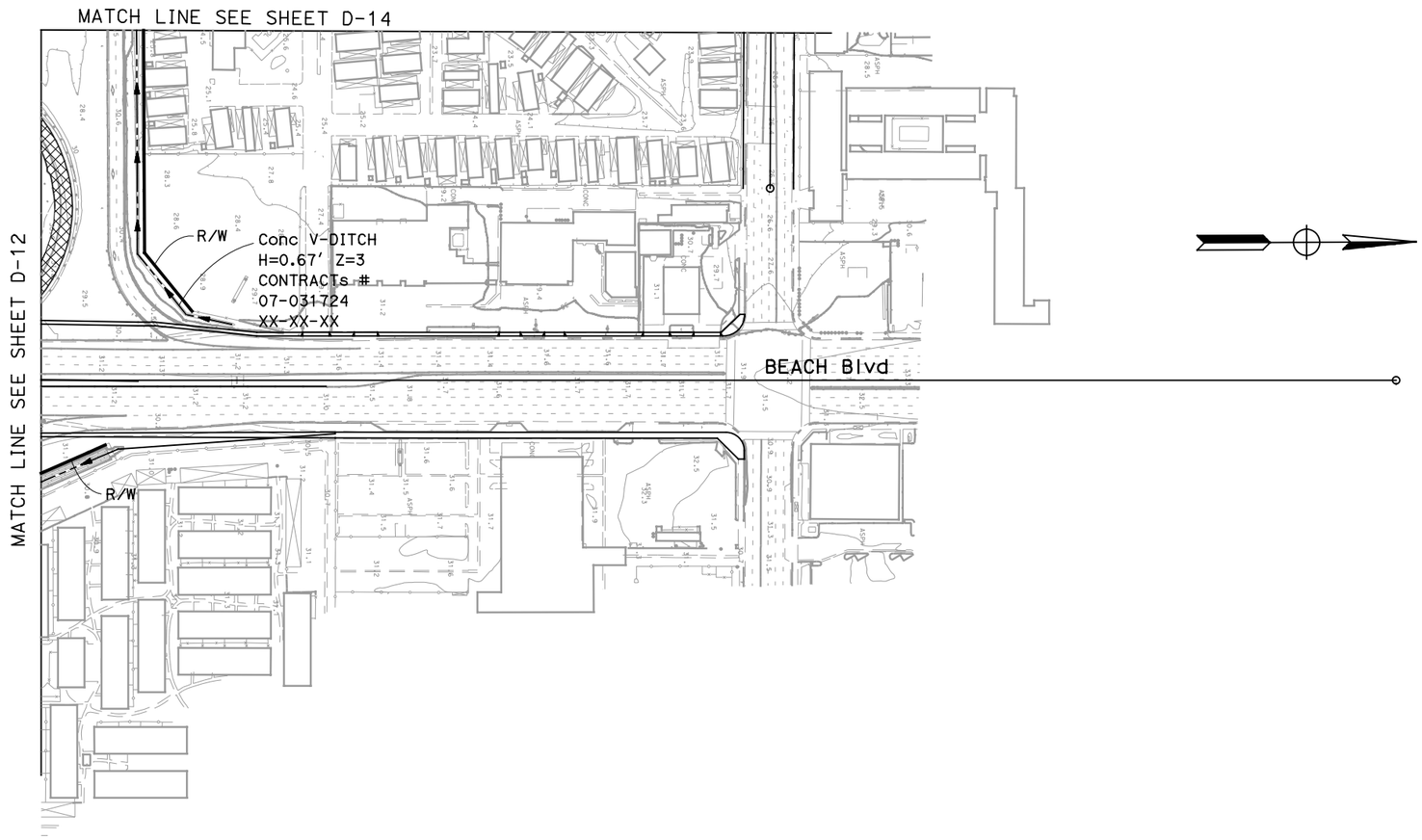
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-13

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:15:54 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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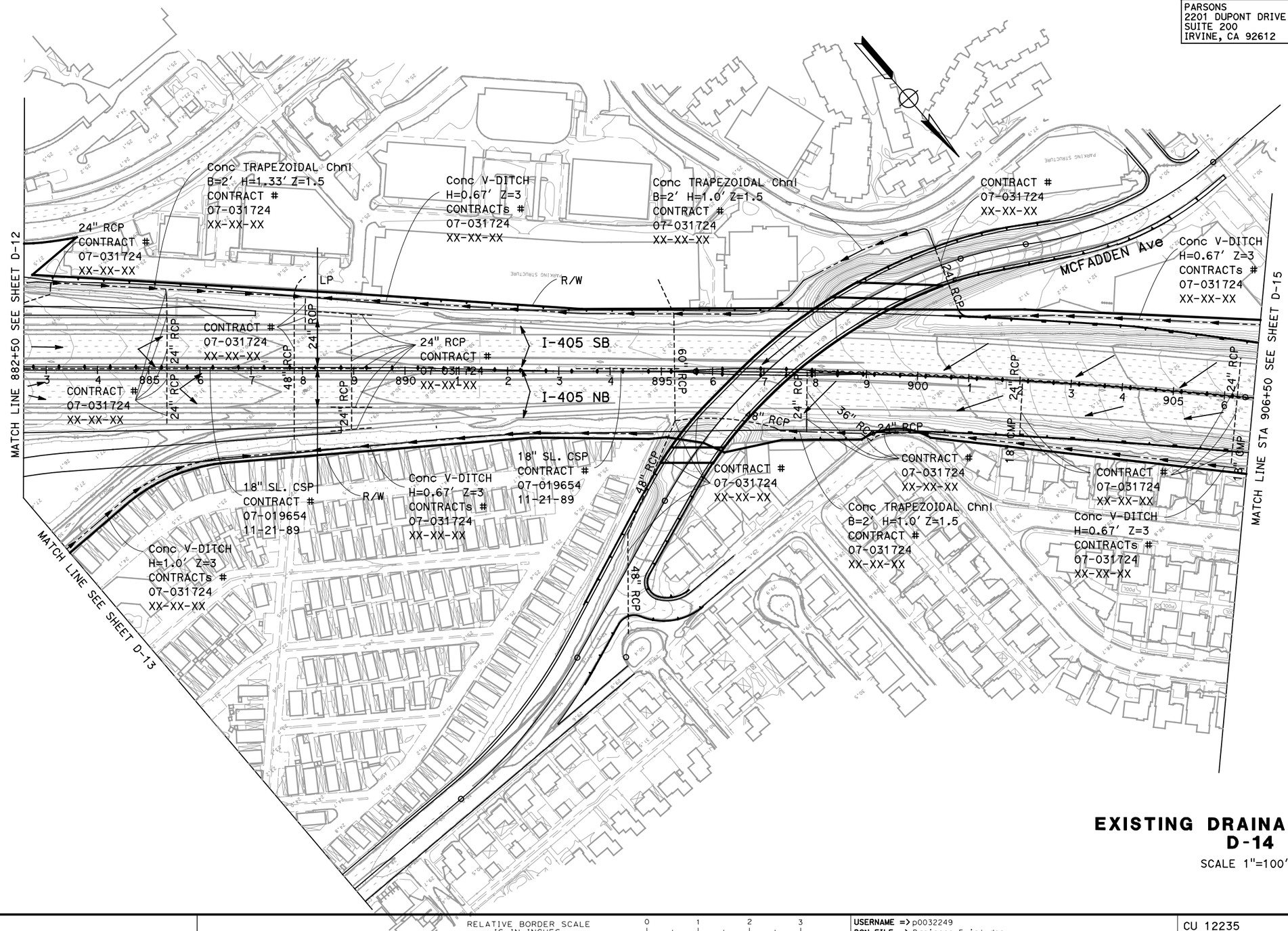
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-14

SCALE 1"=100'

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CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 05-18-09 DATE PLOTTED => 2/7/2011 TIME PLOTTED => 2:15:58 PM

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => p0032249
DGN FILE => Drainage_Exist.dgn

CU 12235

EA 071621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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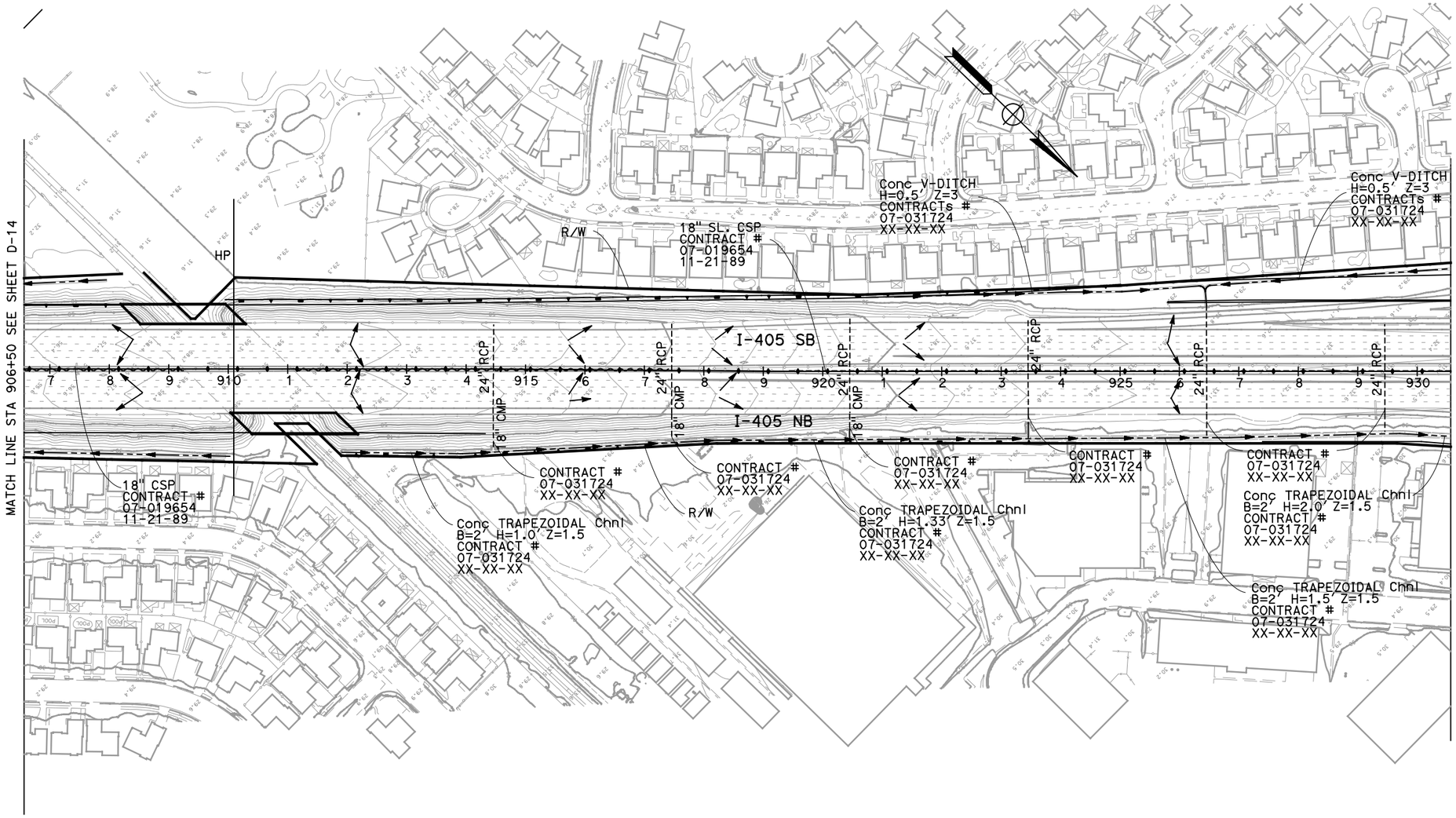
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-15

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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REVISED BY

DATE REVISED

LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:16:02 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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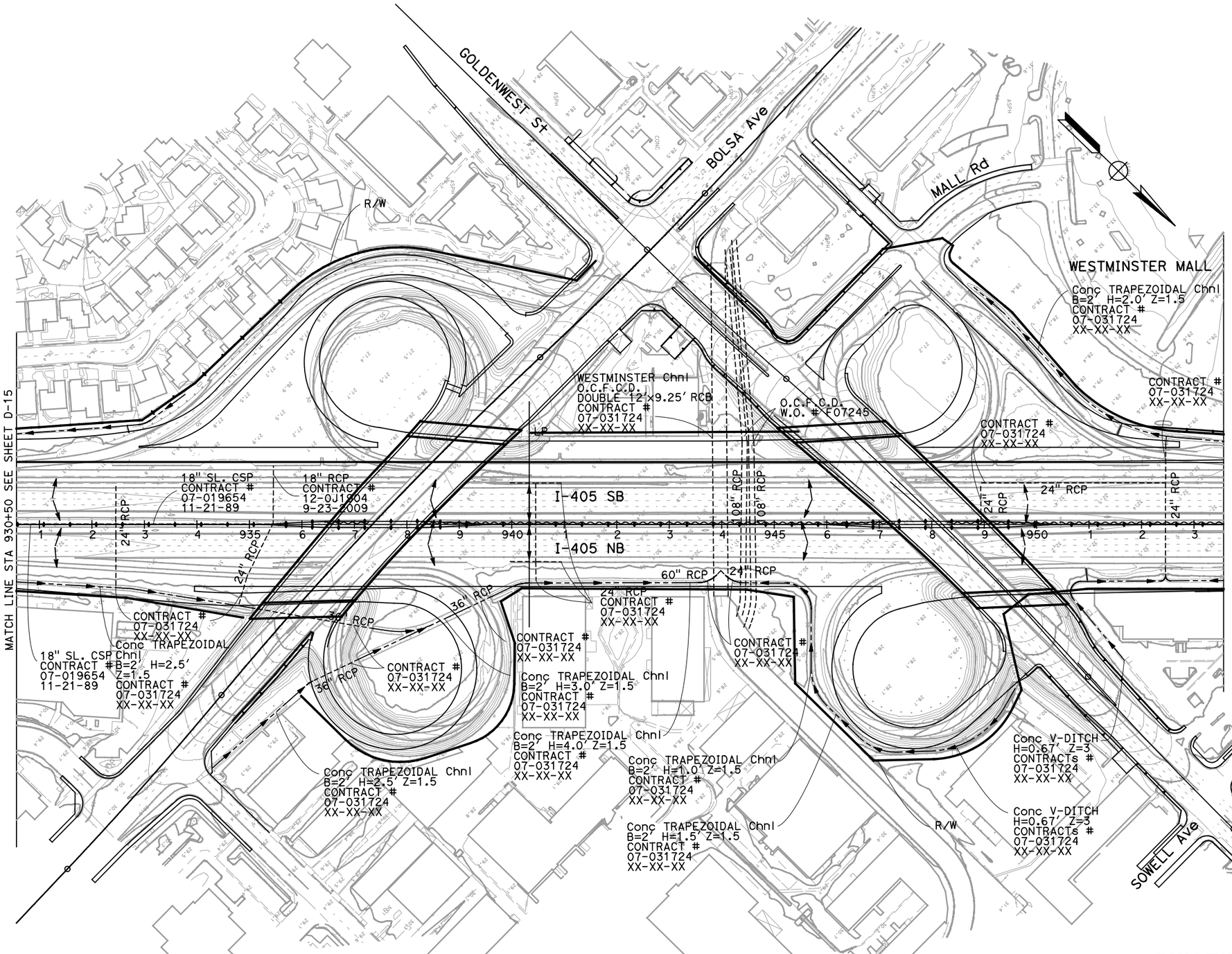
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-16

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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REVISED BY

DATE REVISED

LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:16:07 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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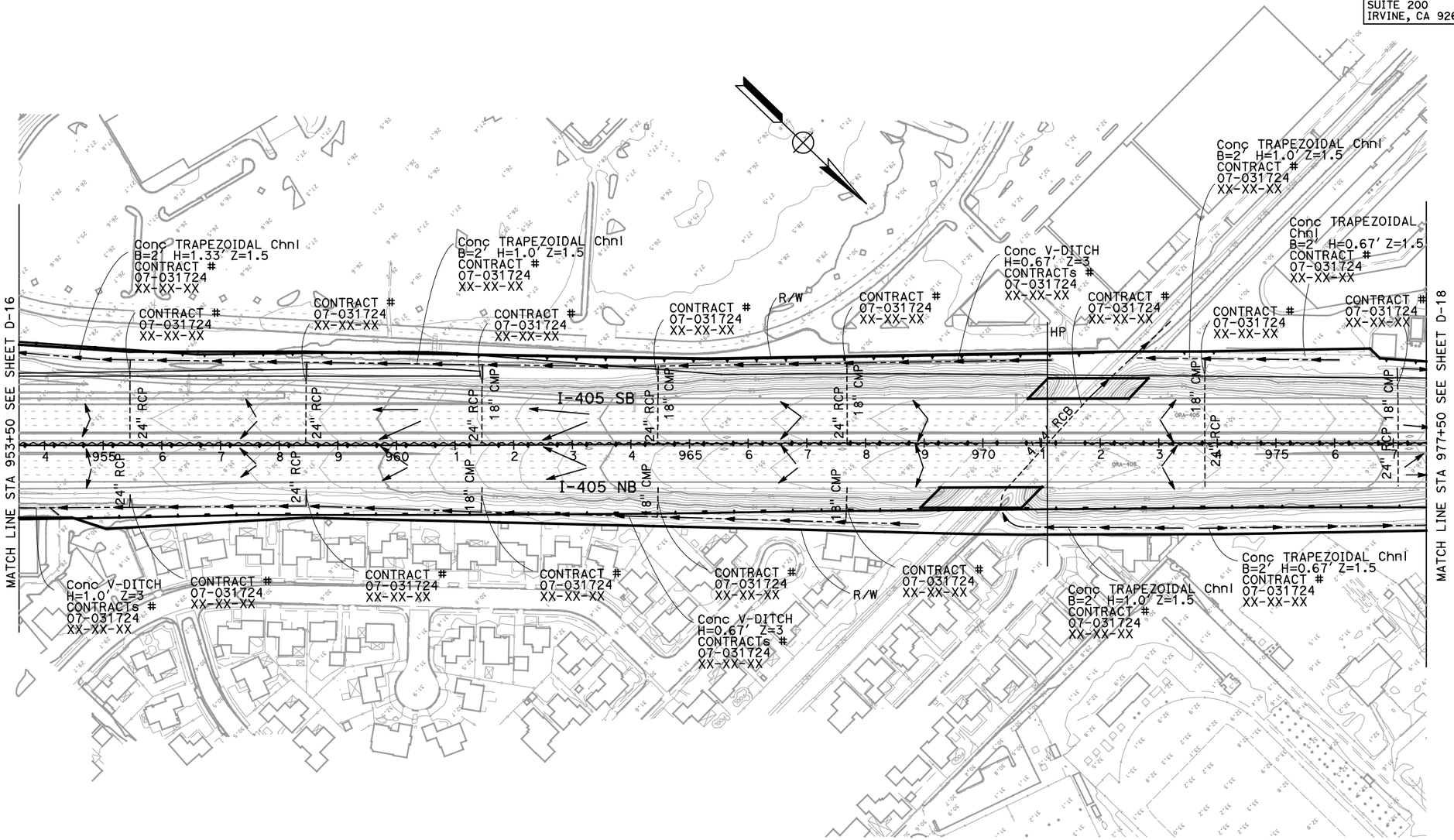
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-17

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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DATE REVISED

LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:16:12 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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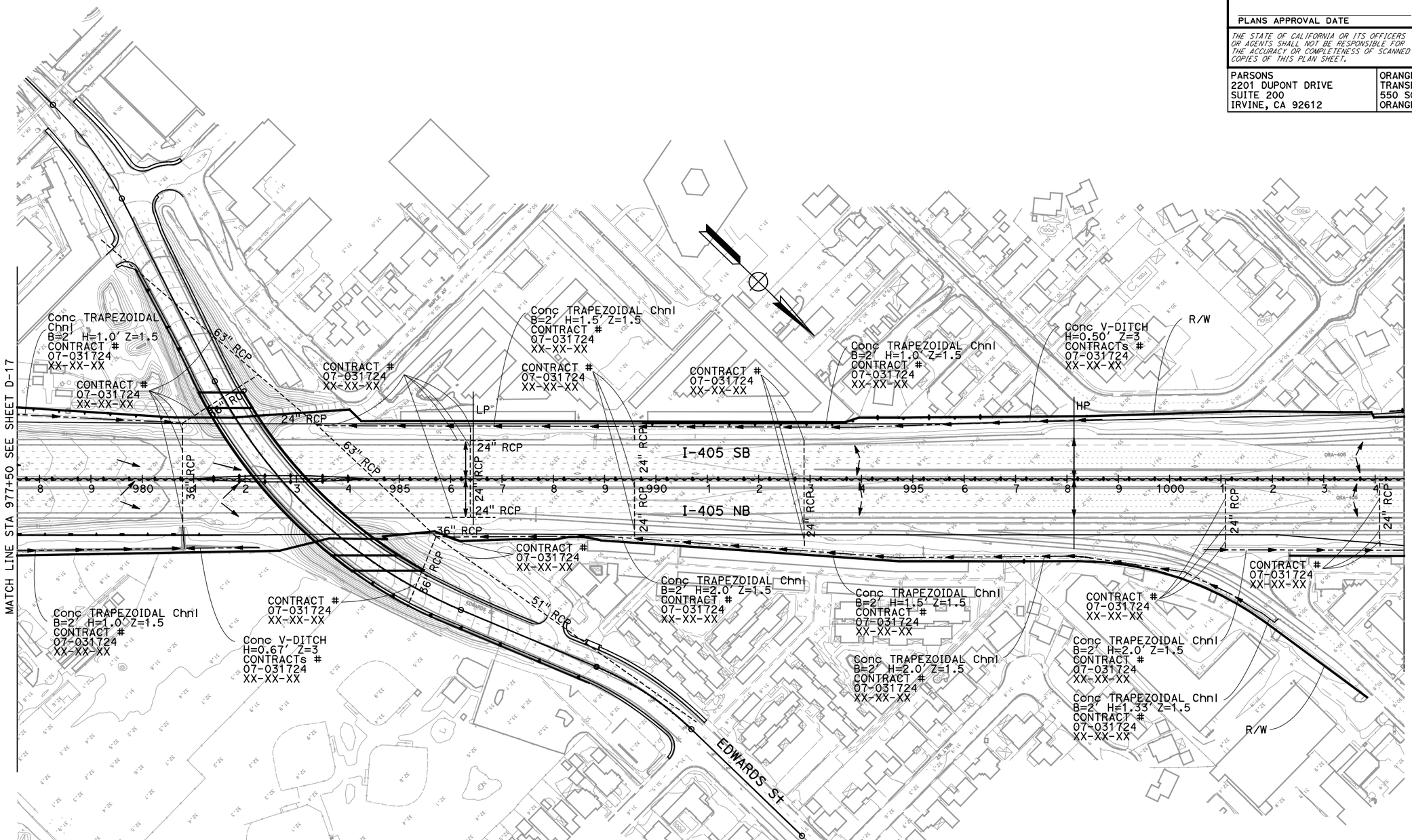
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-18

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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DATE REVISED

LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:16:16 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
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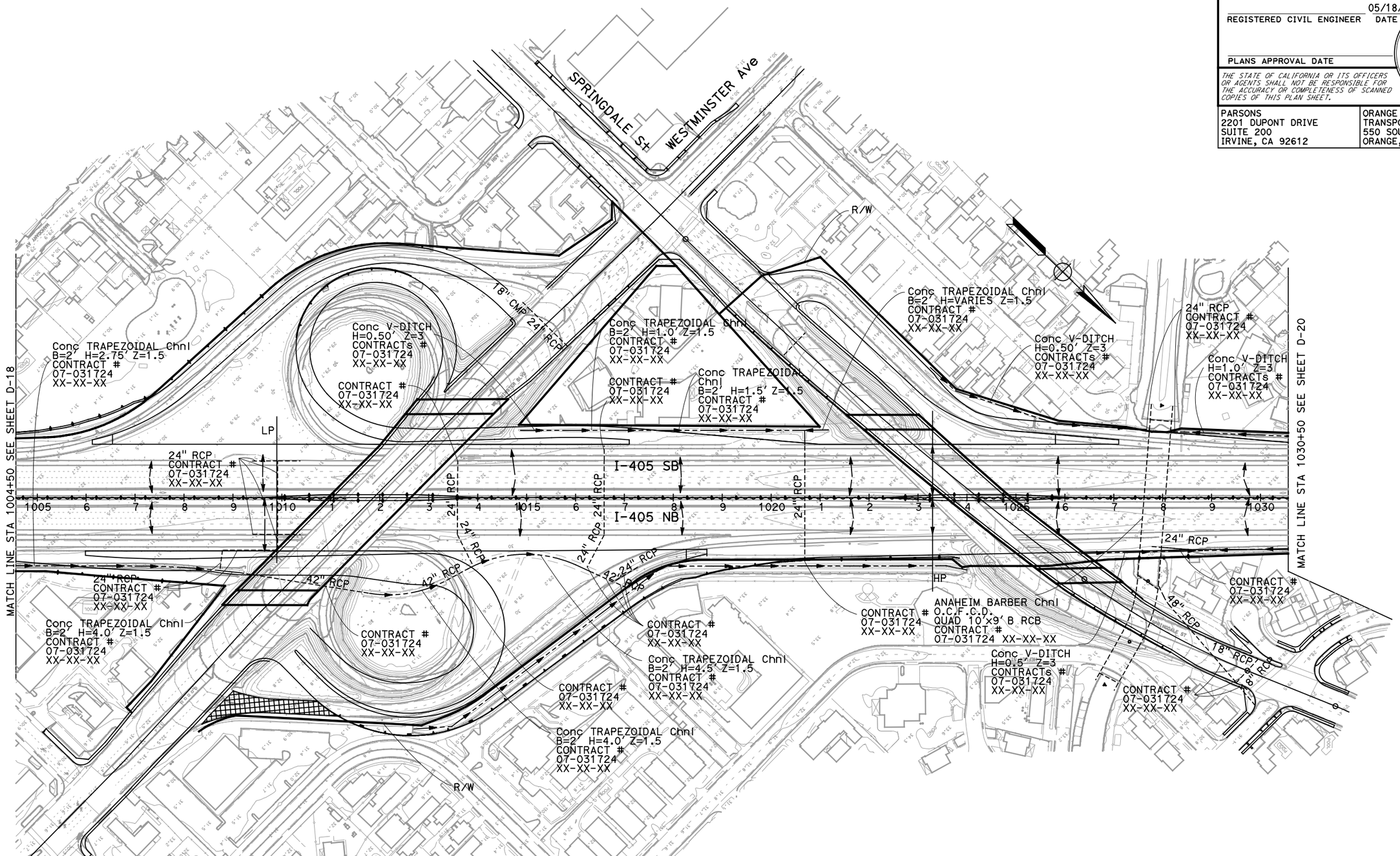
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-19

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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DATE REVISED

LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:16:21 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PARSONS
2201 DUPONT DRIVE
SUITE 200
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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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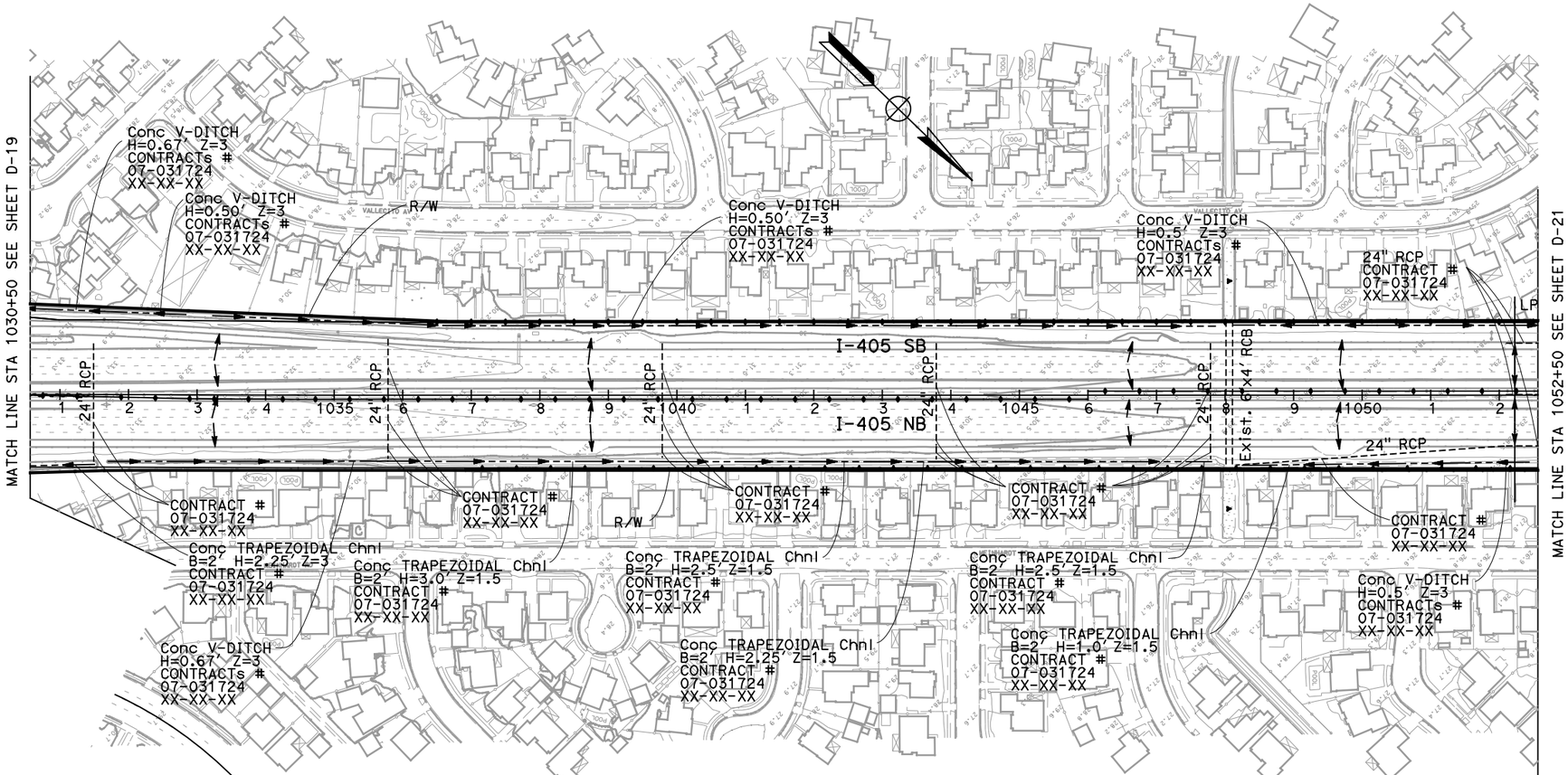
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-20

SCALE 1"=100'

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

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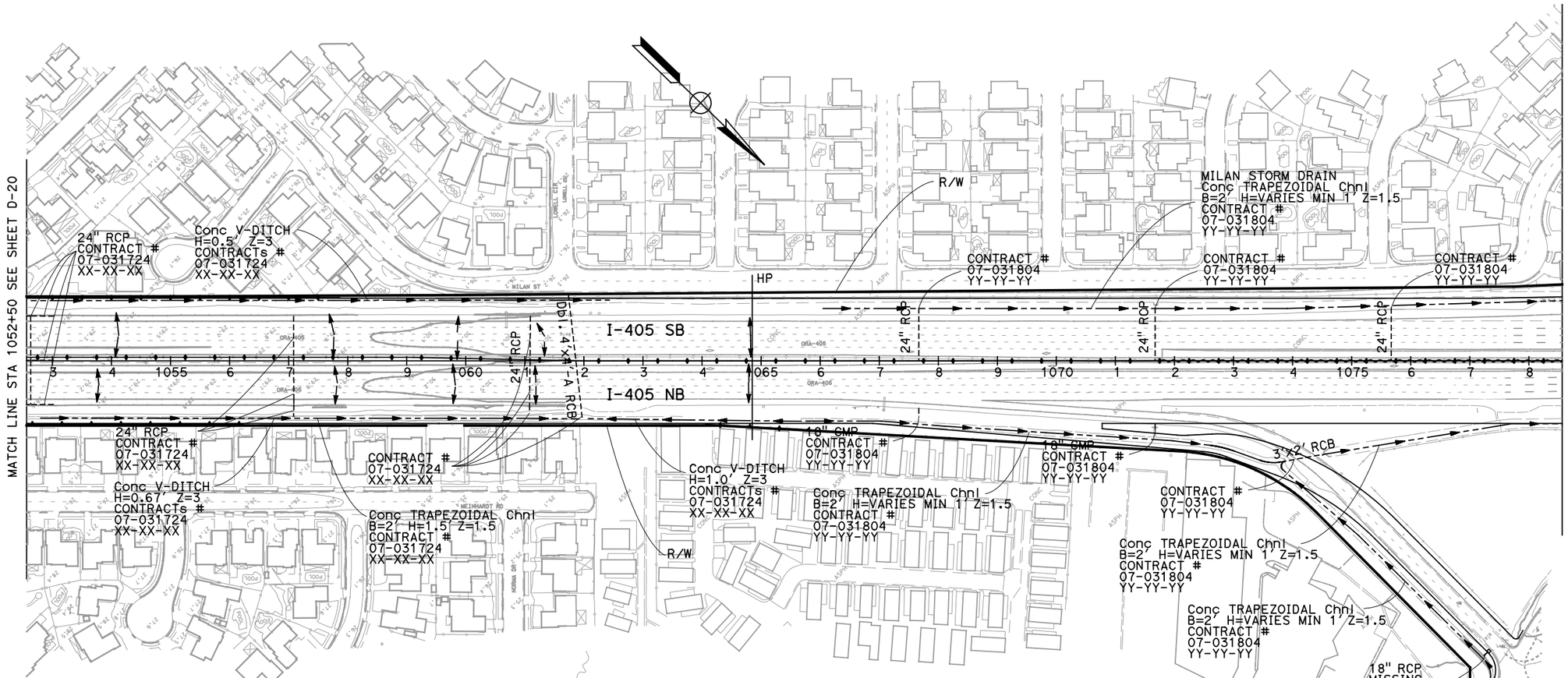
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-21

SCALE 1"=100'

REVISED BY | DATE REVISED

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER DATE 05/18/09

PLANS APPROVAL DATE

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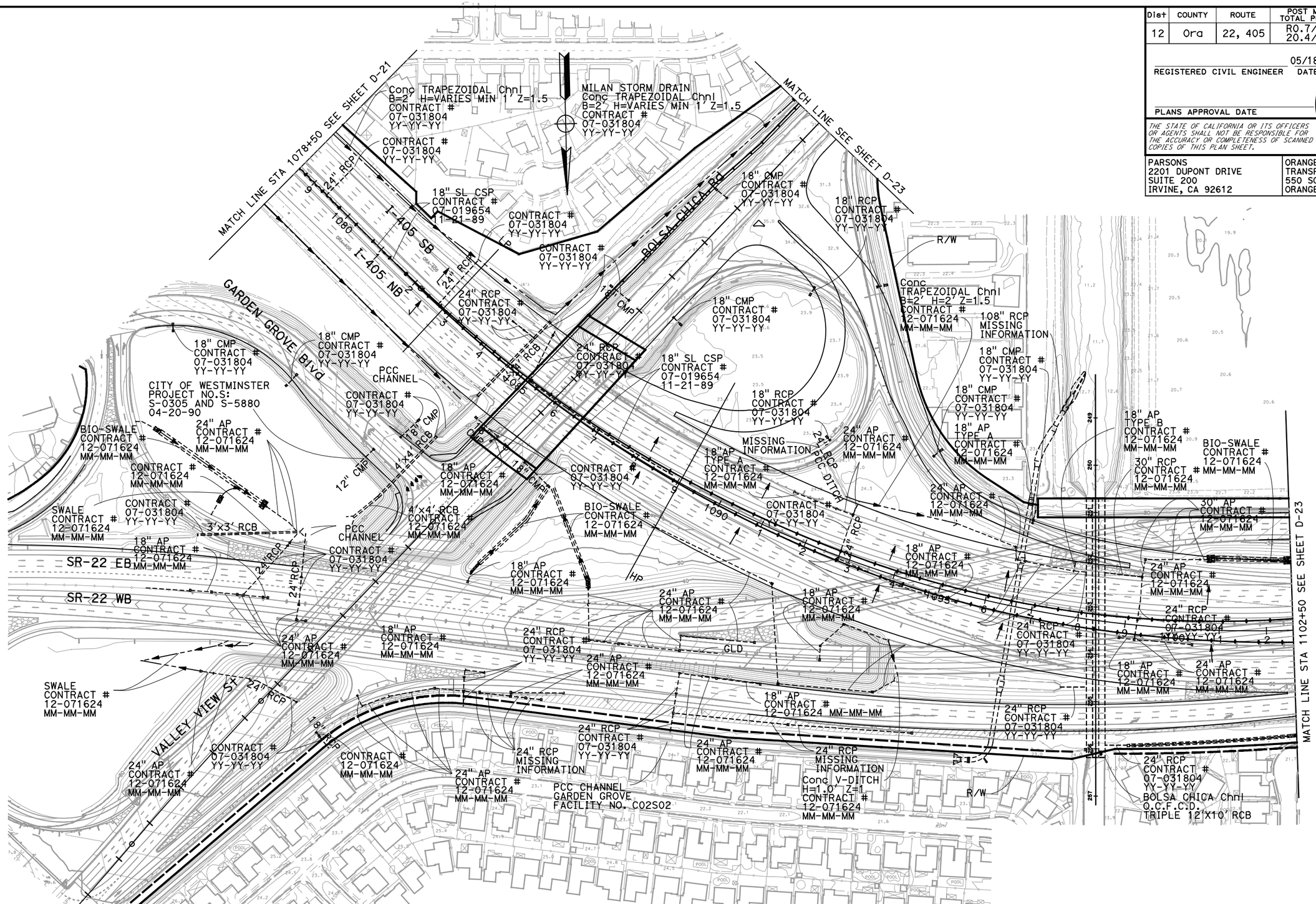
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-22

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 05-18-09 | DATE PLOTTED => 3/15/2011 | TIME PLOTTED => 3:12:19 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

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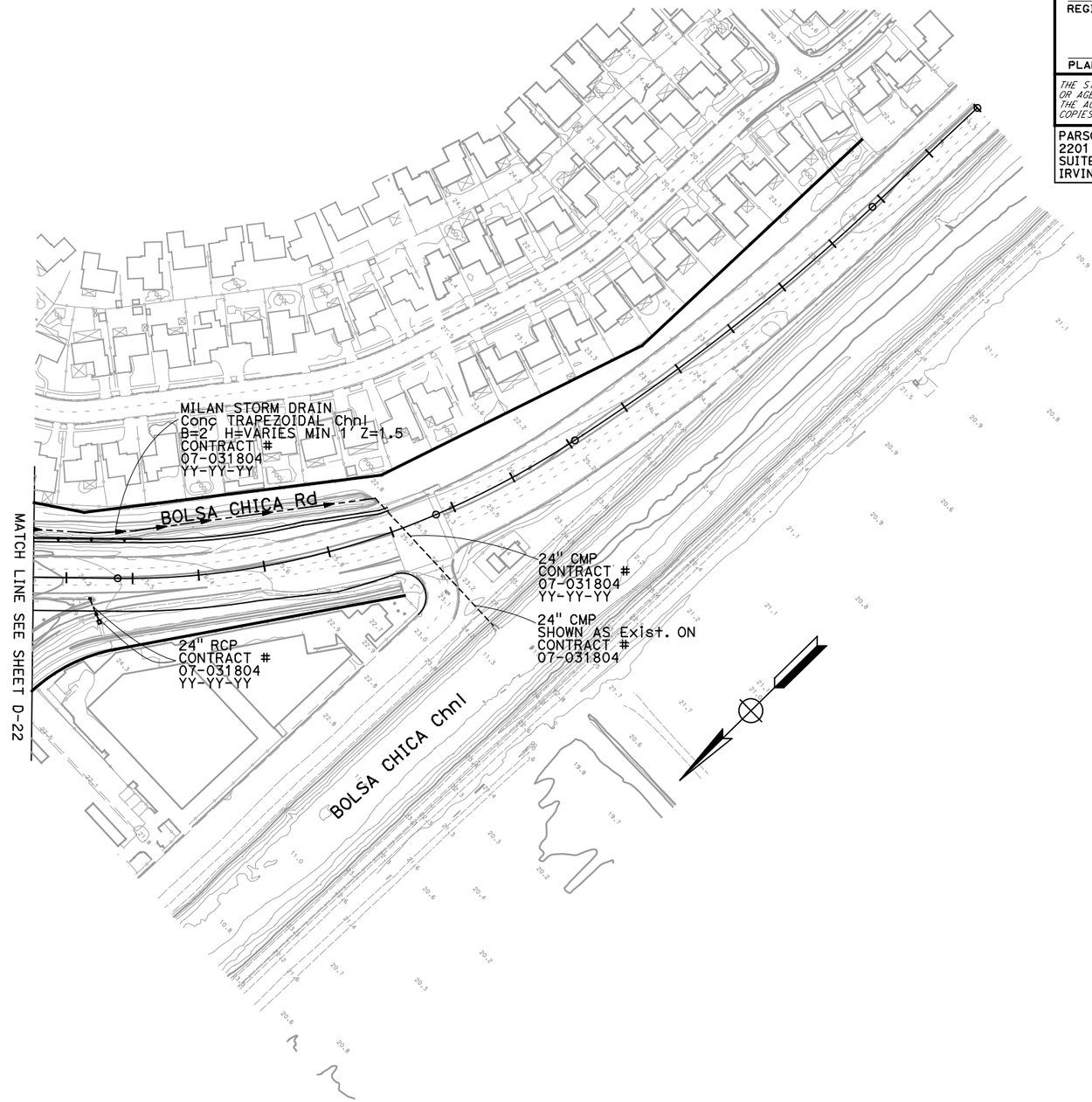
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-23

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

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DATE REVISED

LAST REVISION 05-18-09

DATE PLOTTED => 3/15/2011
TIME PLOTTED => 3:12:23 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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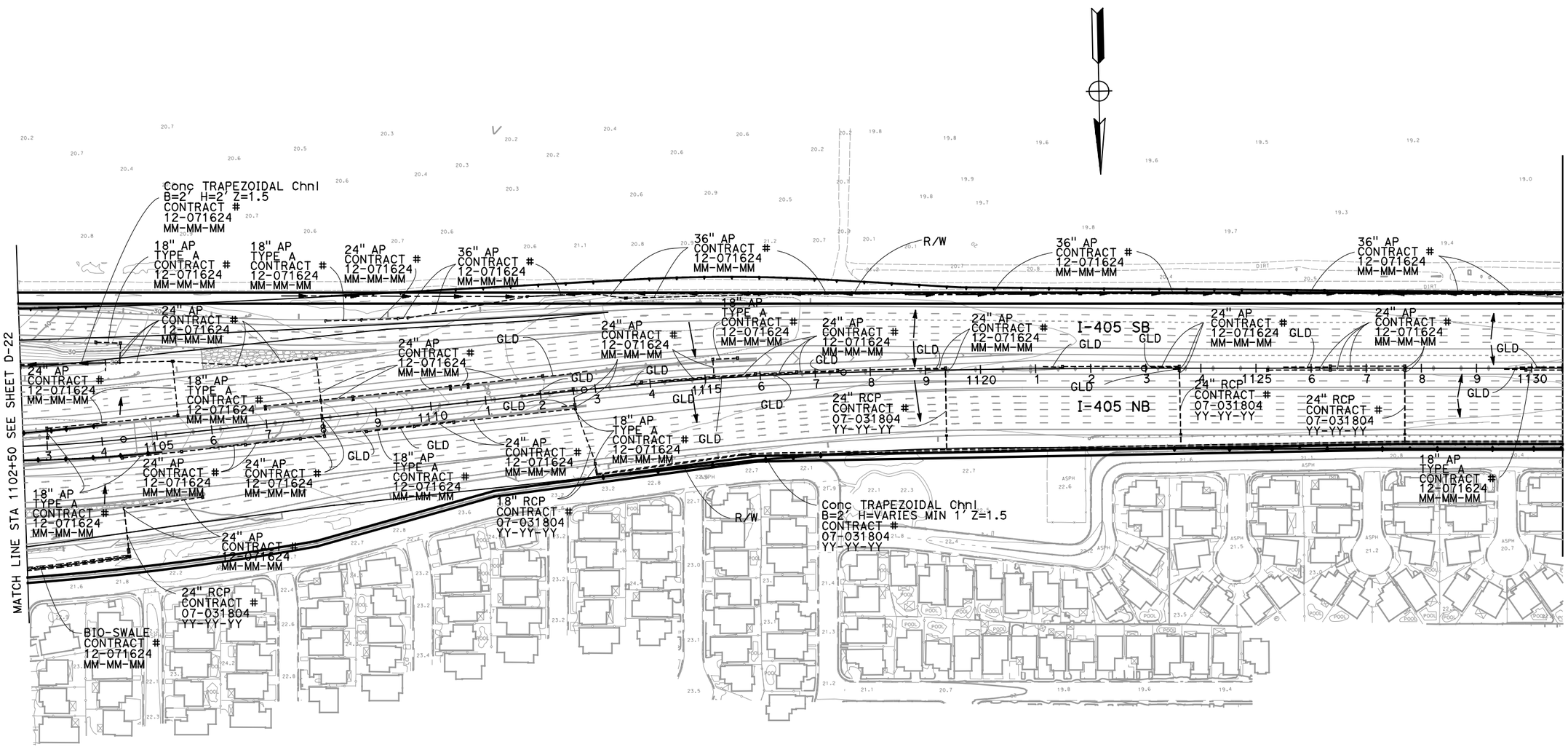
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-24

SCALE 1"=100'

REVISED BY	DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 05-18-09

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TIME PLOTTED => 2:16:47 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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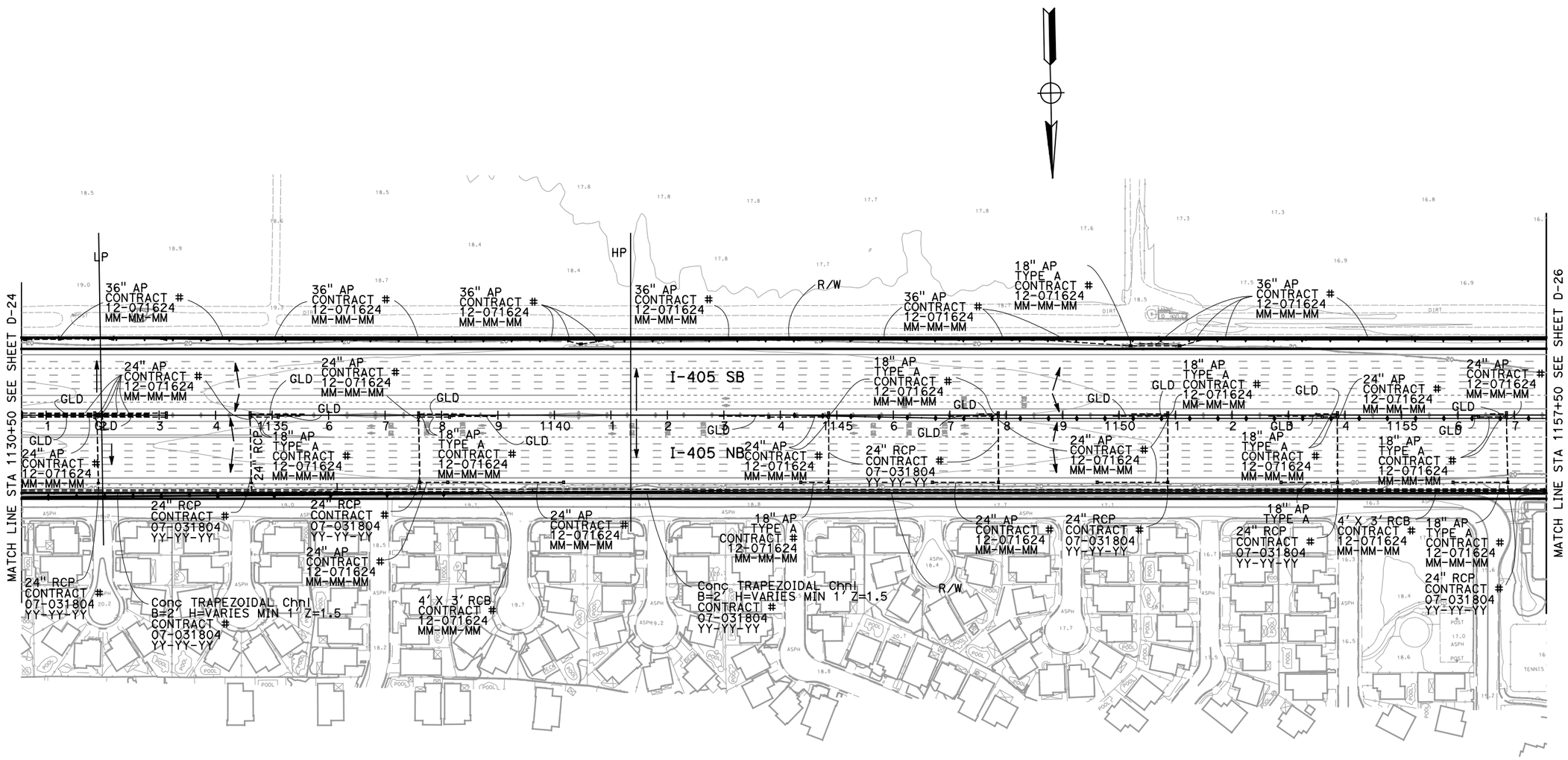
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-25

SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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CALCULATED-DESIGNED BY

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DATE REVISED

LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:16:52 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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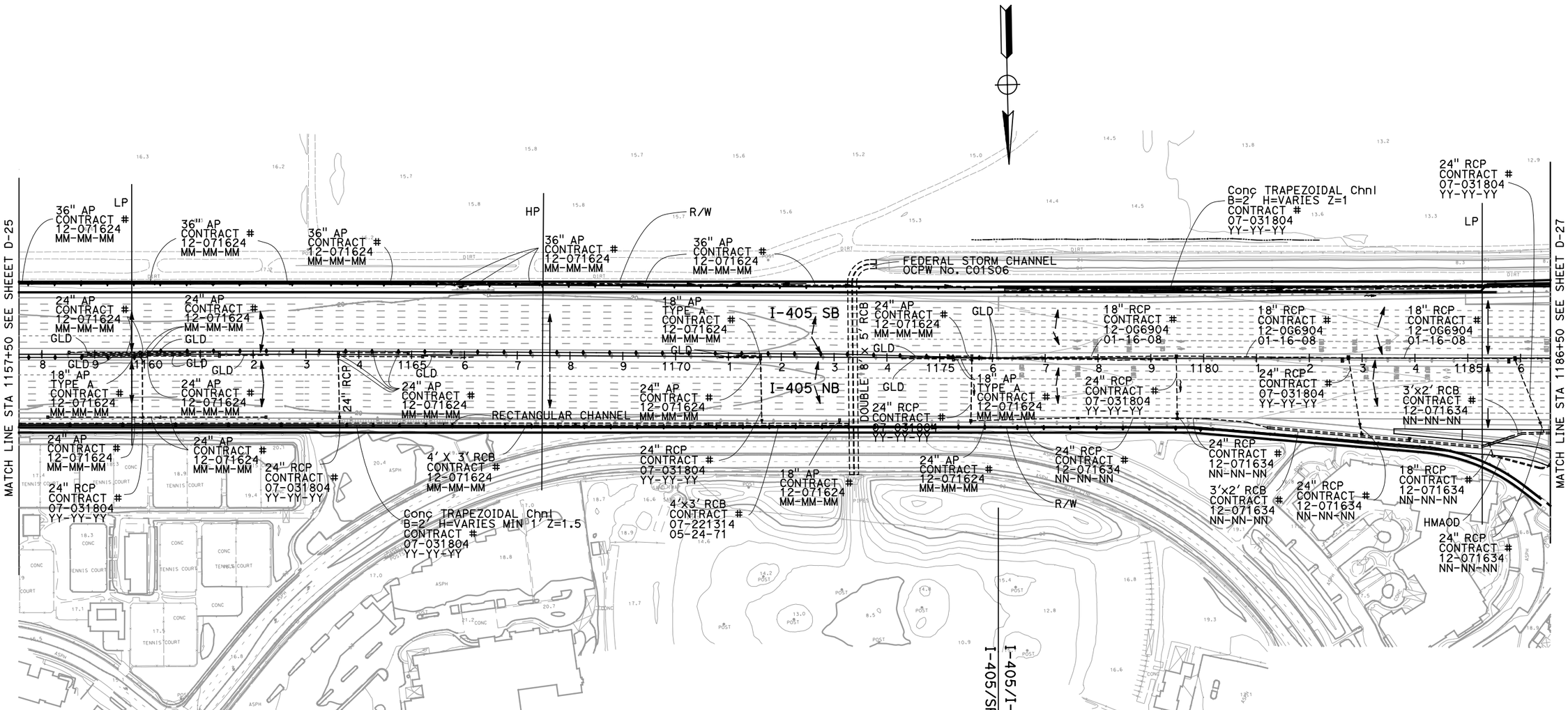
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-26

SCALE 1"=100'

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 05-18-09

DATE PLOTTED => 2/7/2011
TIME PLOTTED => 2:16:57 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER DATE 05/18/09

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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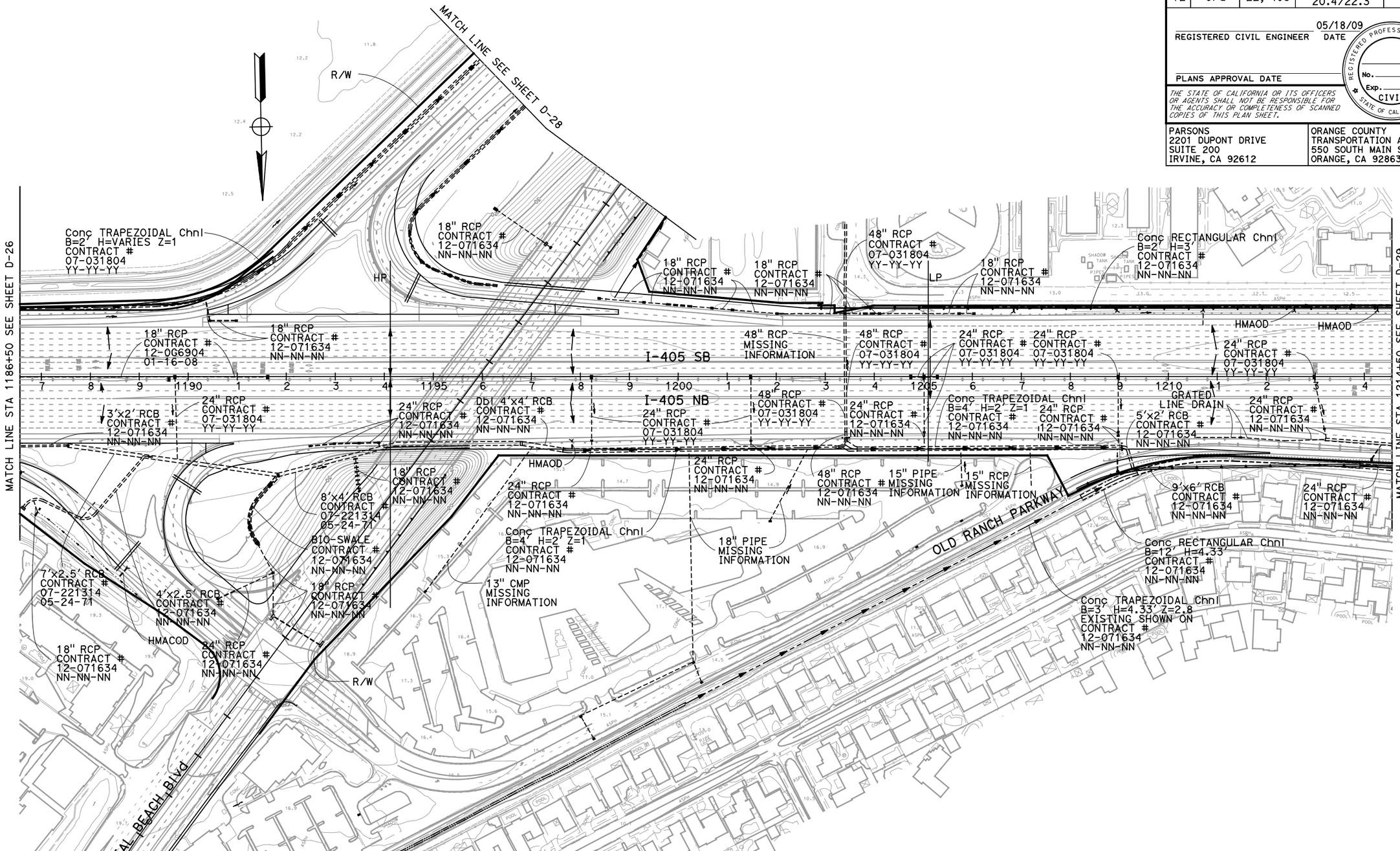
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-27

SCALE 1"=100'

REVISED BY | DATE REVISED

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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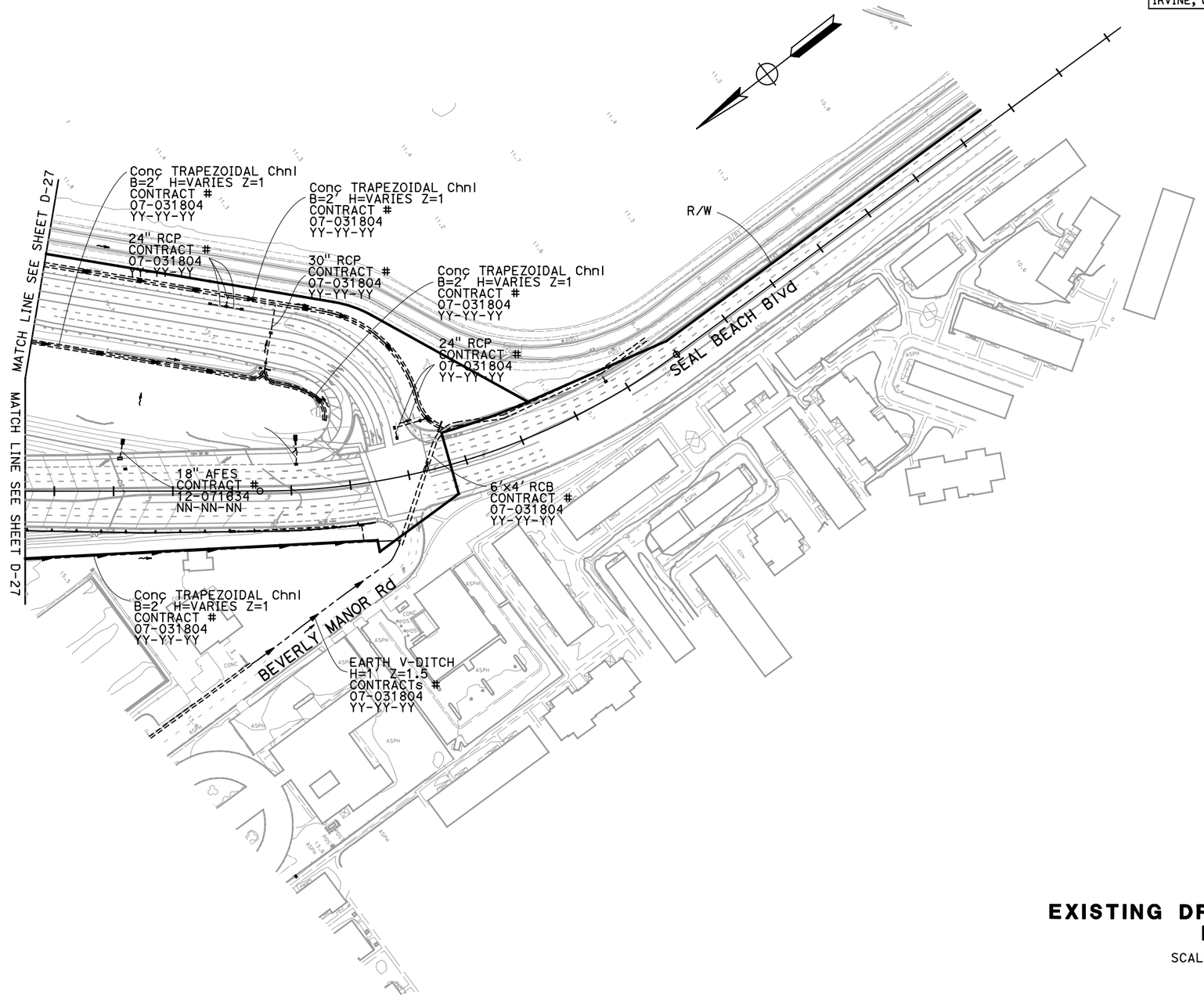
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-28

SCALE 1"=100'

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 05-18-09 | DATE PLOTTED => 3/15/2011 | TIME PLOTTED => 3:12:32 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

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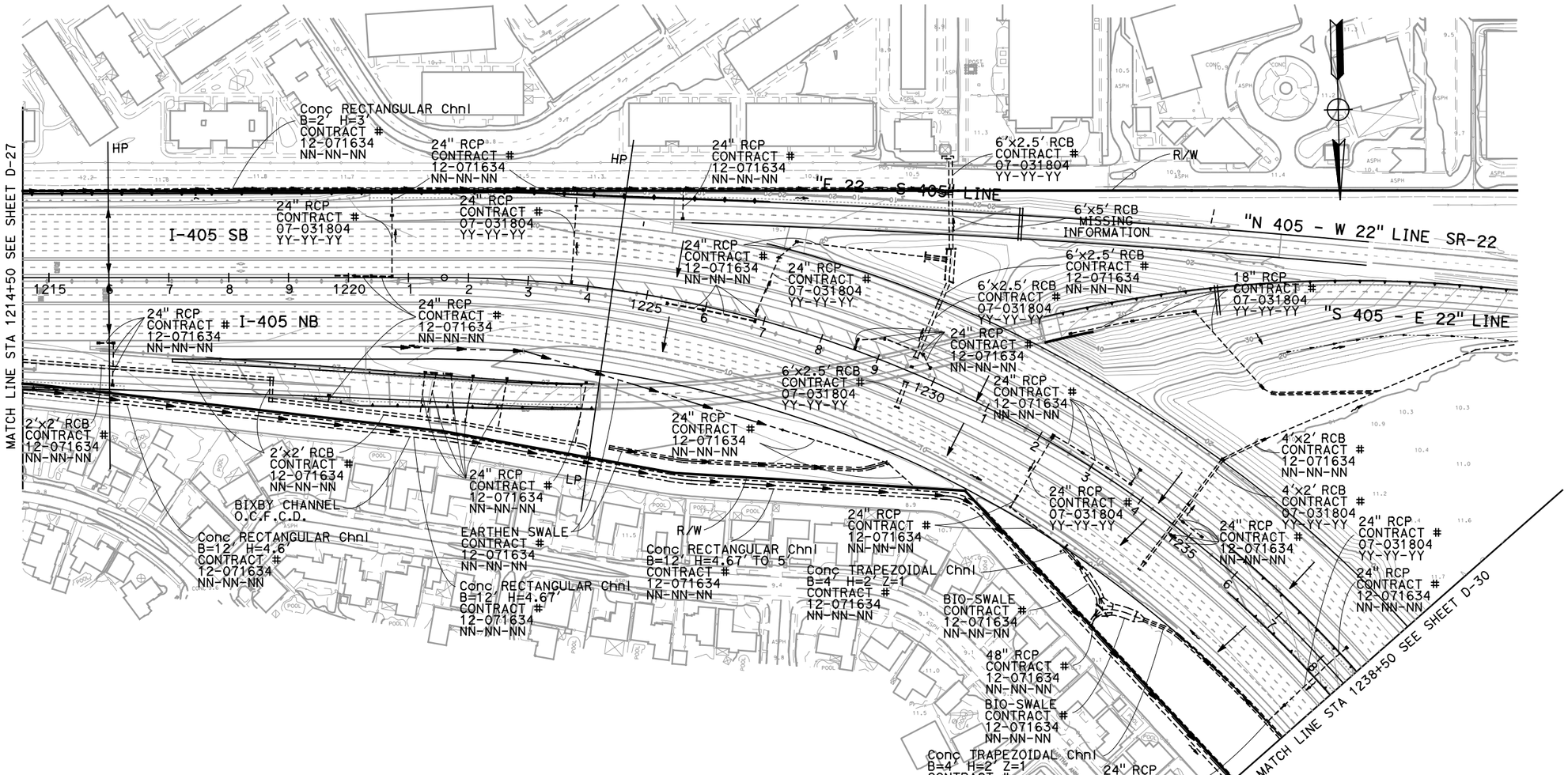
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



EXISTING DRAINAGE PLAN
D-29

SCALE 1"=100'

REVISED BY	DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 05-18-09

DATE PLOTTED => 3/15/2011
TIME PLOTTED => 3:12:36 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

REGISTERED CIVIL ENGINEER 05/18/09 DATE

PLANS APPROVAL DATE

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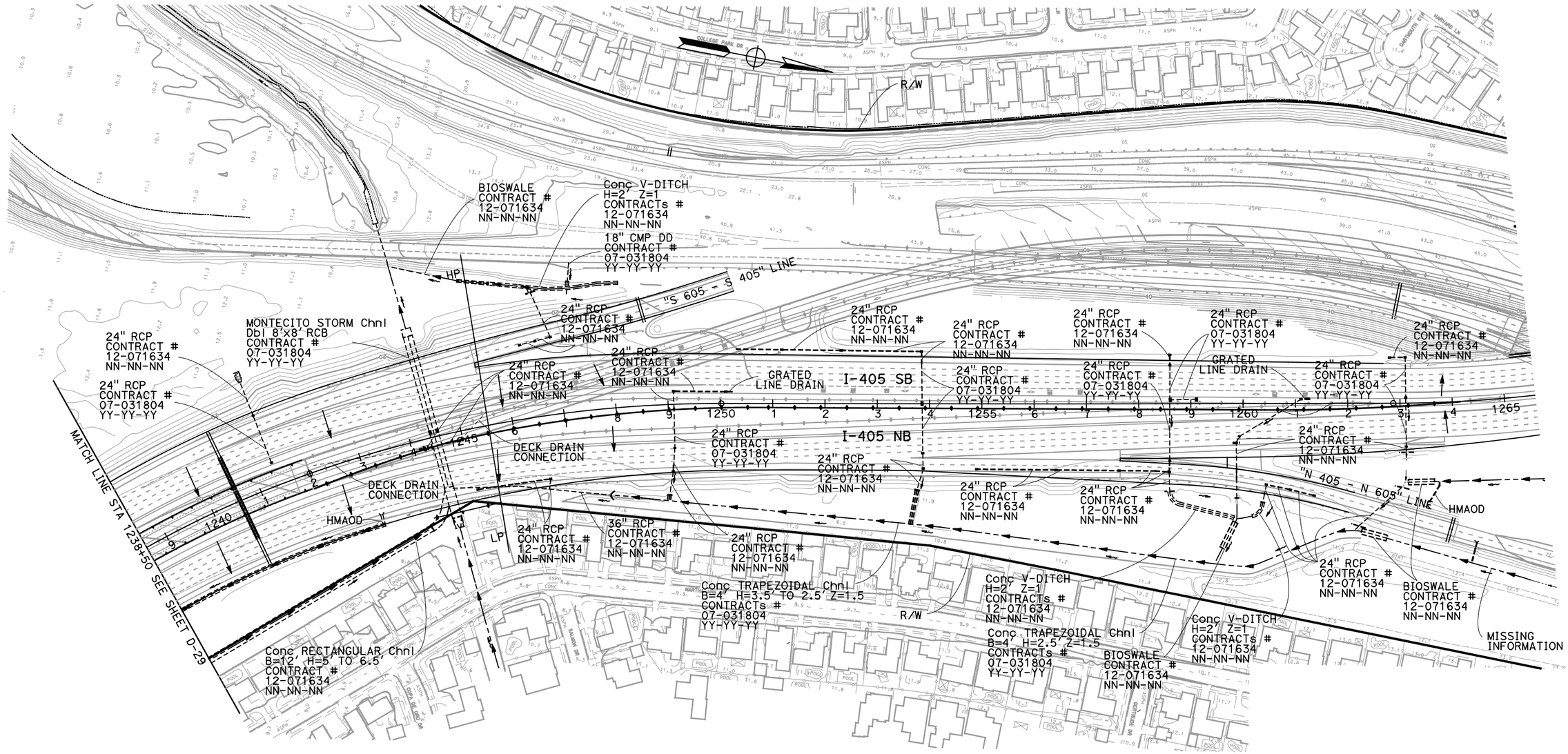

EXISTING DRAINAGE PLAN
D-30

SCALE 1"=100'

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ATTACHMENT 2

BMP LAYOUTS

LAYOUTS 1 - 35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

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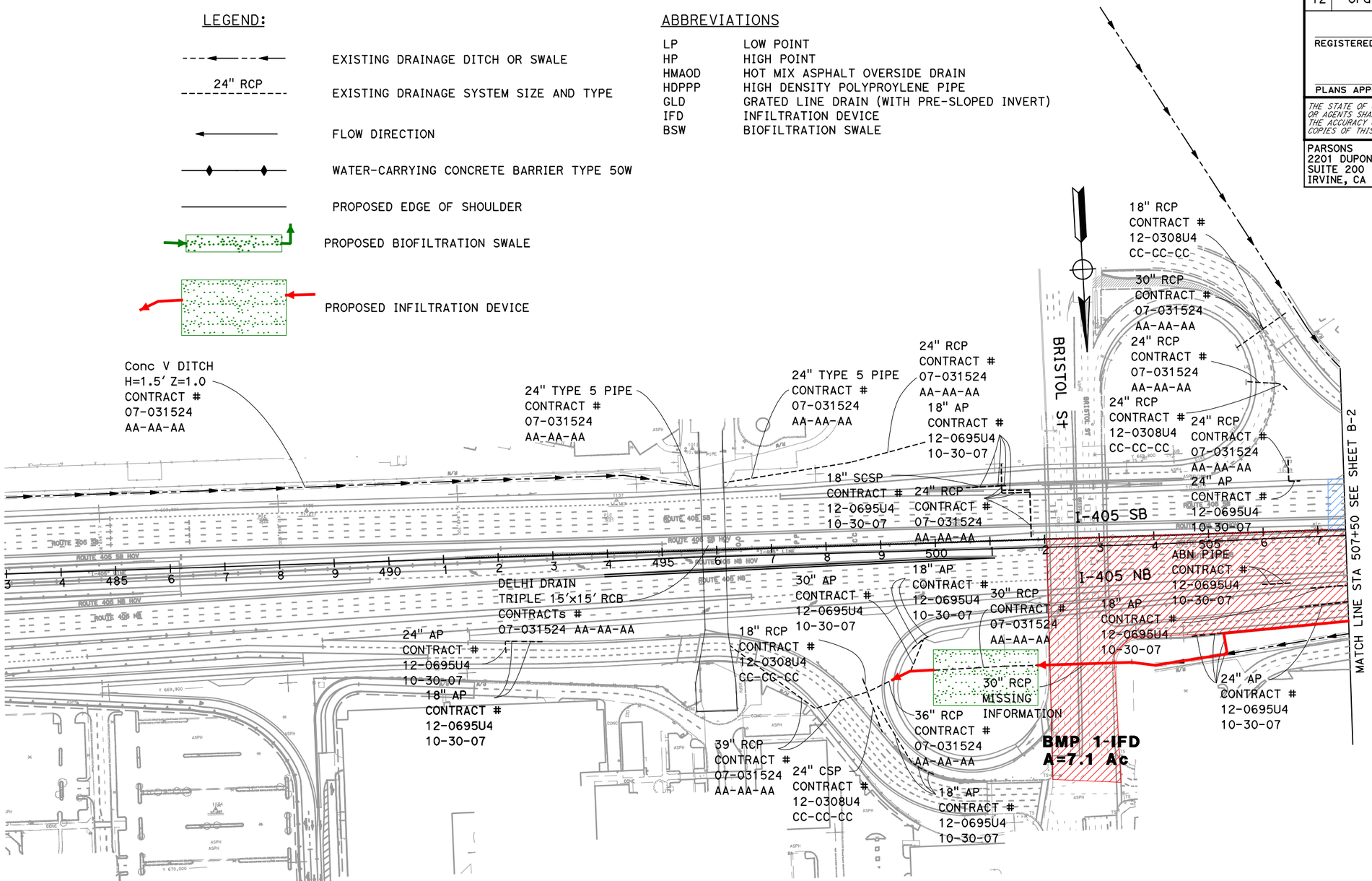
LEGEND:

- EXISTING DRAINAGE DITCH OR SWALE
- 24" RCP — EXISTING DRAINAGE SYSTEM SIZE AND TYPE
- FLOW DIRECTION
- WATER-CARRYING CONCRETE BARRIER TYPE 50W
- PROPOSED EDGE OF SHOULDER
- PROPOSED BIOFILTRATION SWALE
- PROPOSED INFILTRATION DEVICE

ABBREVIATIONS

LP	LOW POINT
HP	HIGH POINT
HMAOD	HOT MIX ASPHALT OVERSIDE DRAIN
HDPPP	HIGH DENSITY POLYPROYLENE PIPE
GLD	GRATED LINE DRAIN (WITH PRE-SLOPED INVERT)
IFD	INFILTRATION DEVICE
BSW	BIOFILTRATION SWALE



BMP LAYOUT
B-1

SCALE 1"=100'

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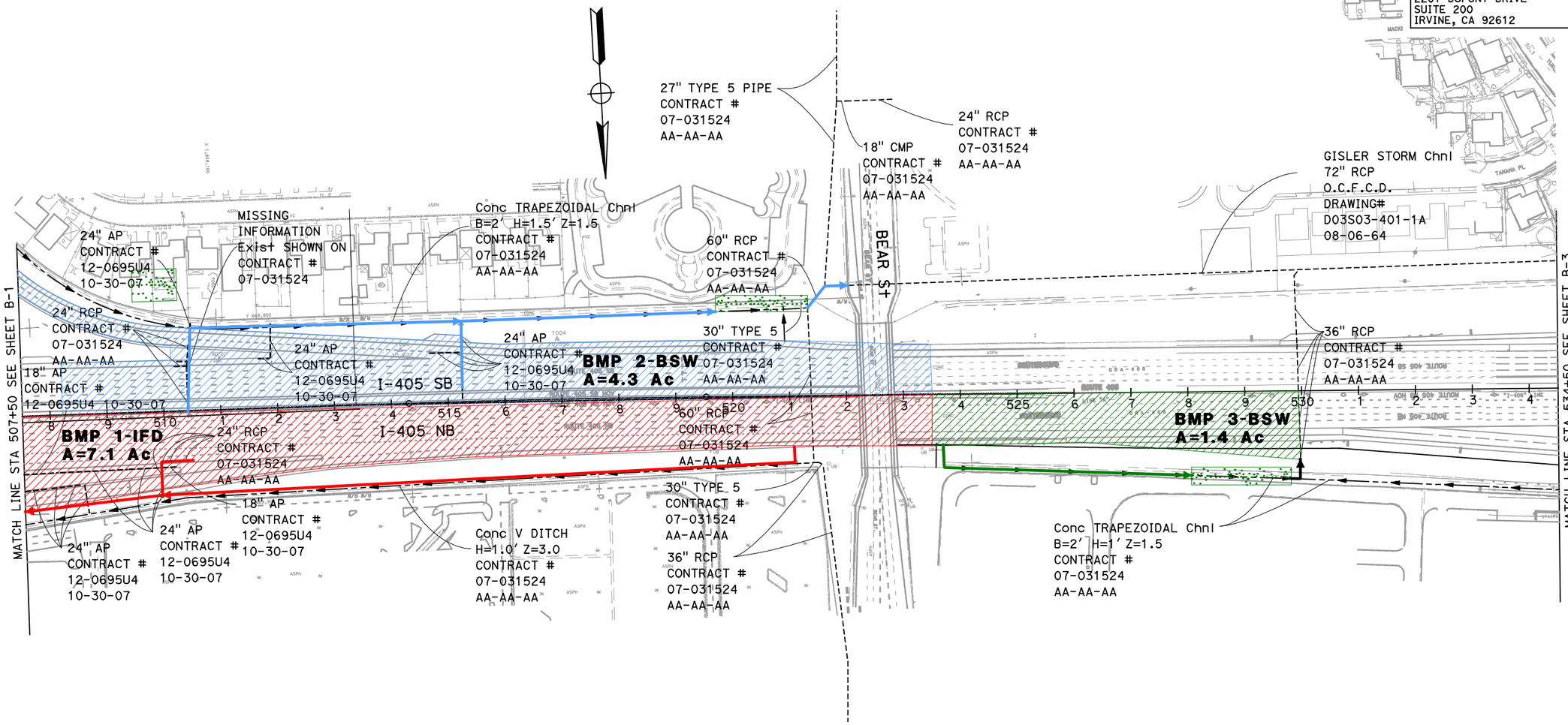

BMP LAYOUT
B-2

SCALE 1"=100'

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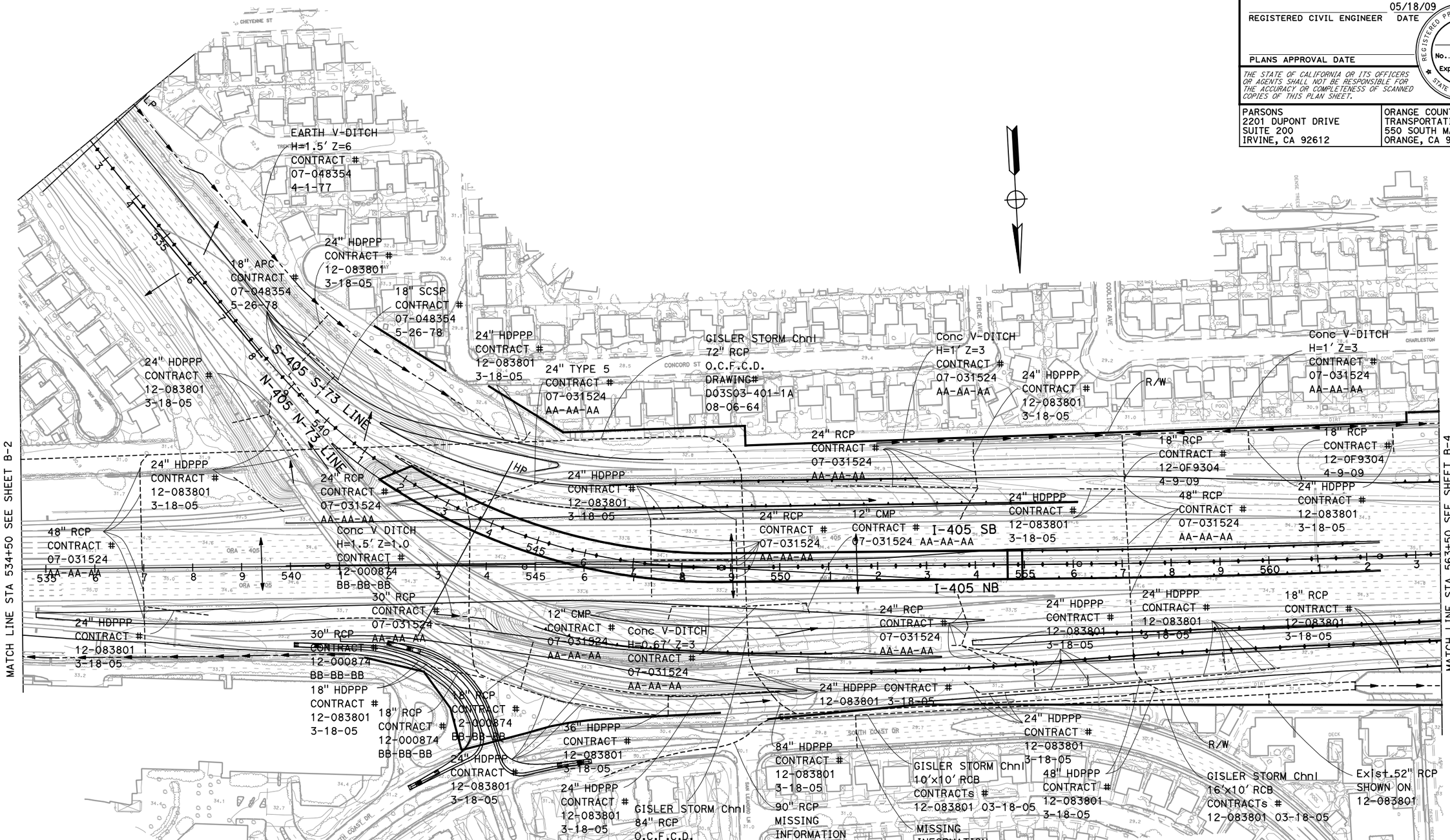

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BMP LAYOUT B-3

SCALE 1"=100'

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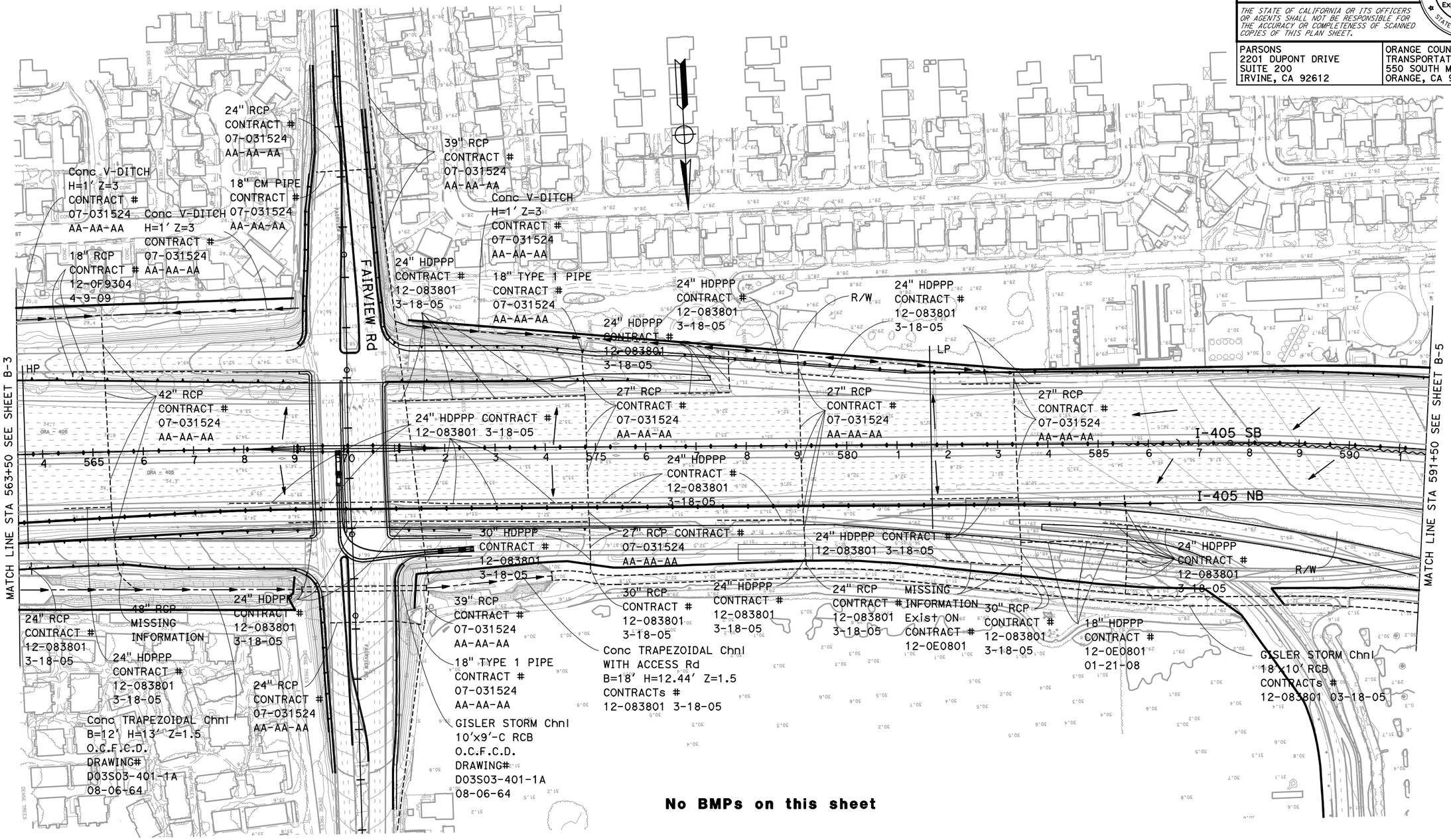

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BMP LAYOUT
B-4

SCALE 1"=100'

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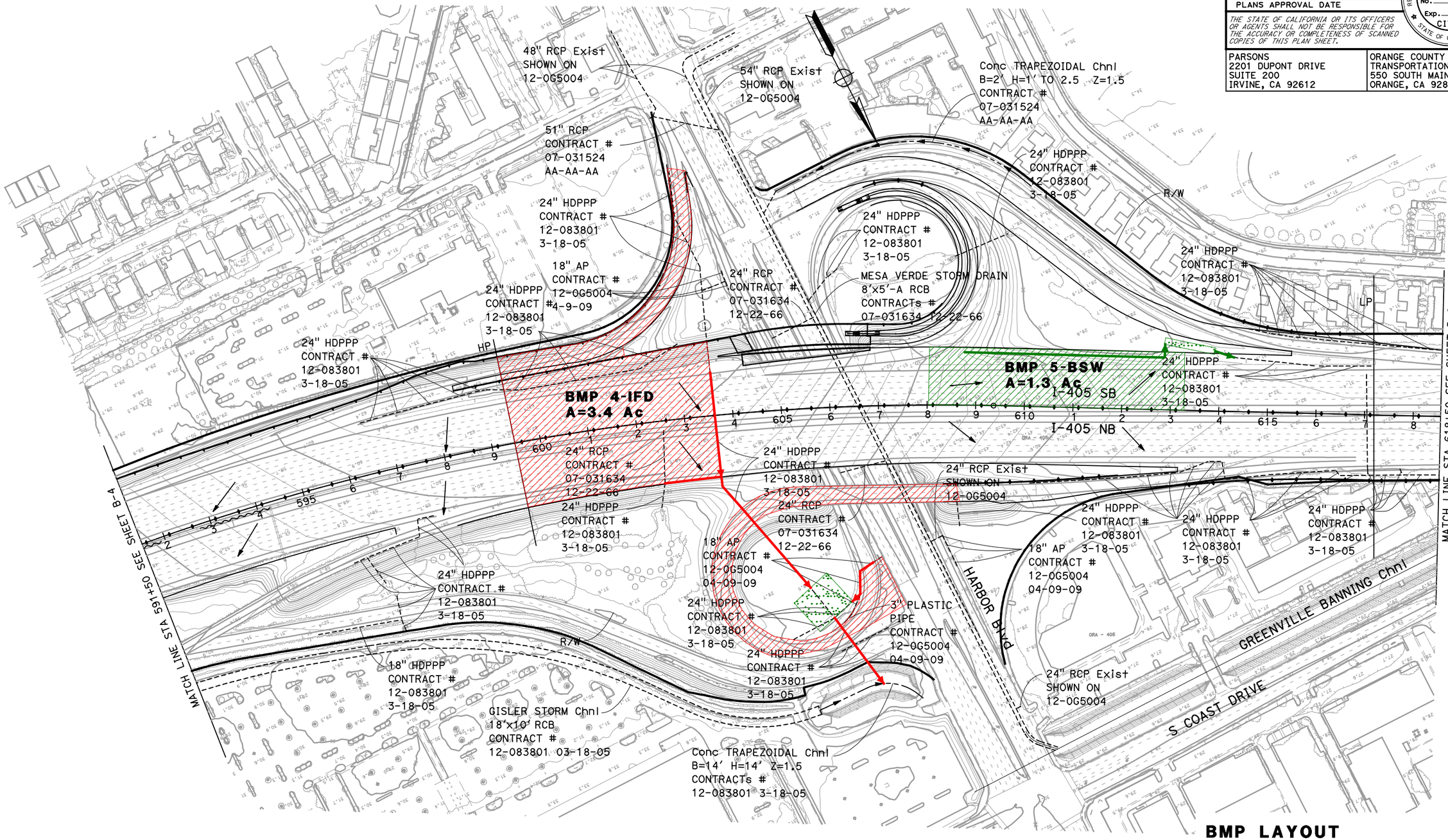

BMP LAYOUT
B-5

SCALE 1"=100'

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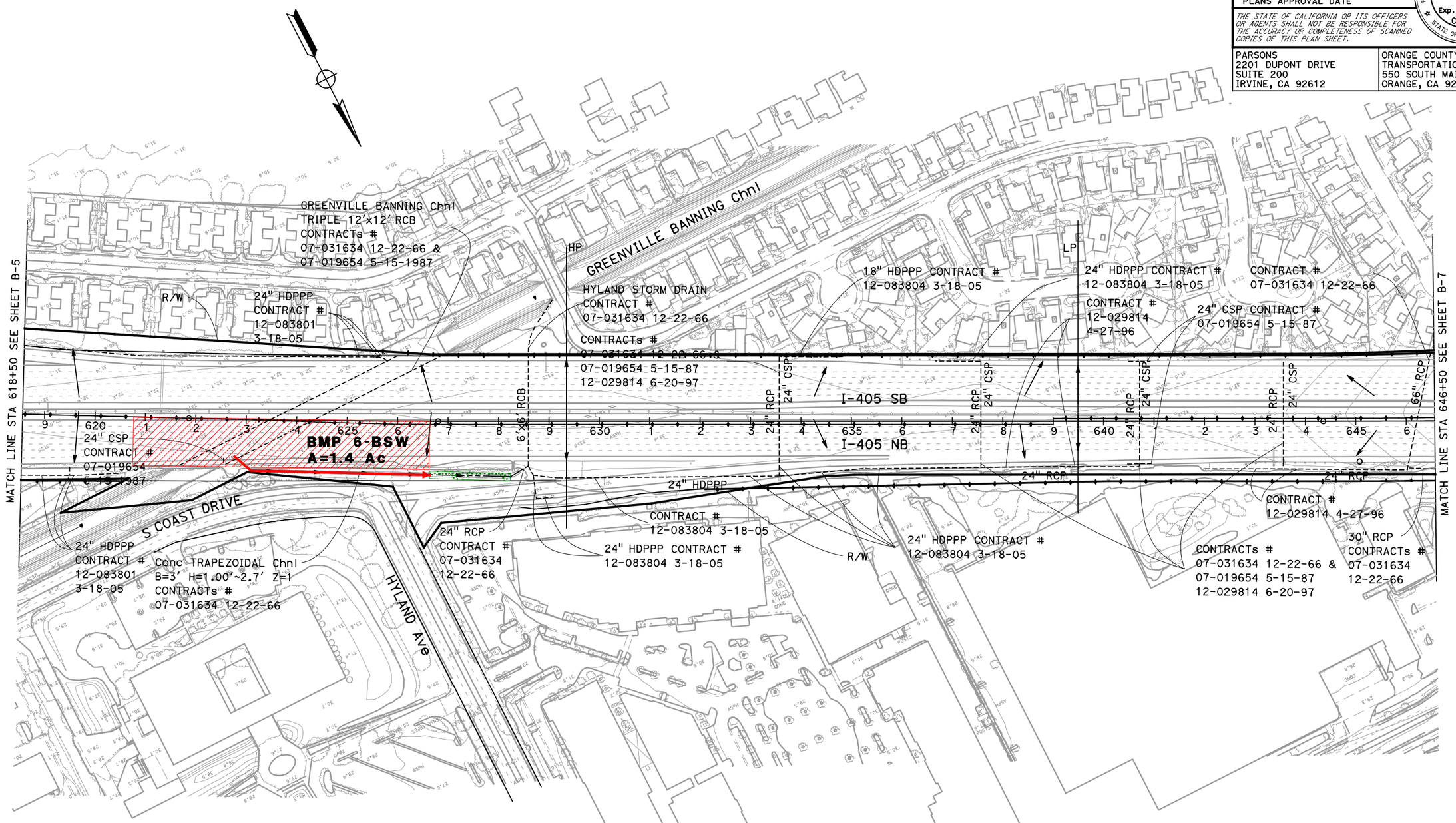

BMP LAYOUT
B-6

SCALE 1"=100'

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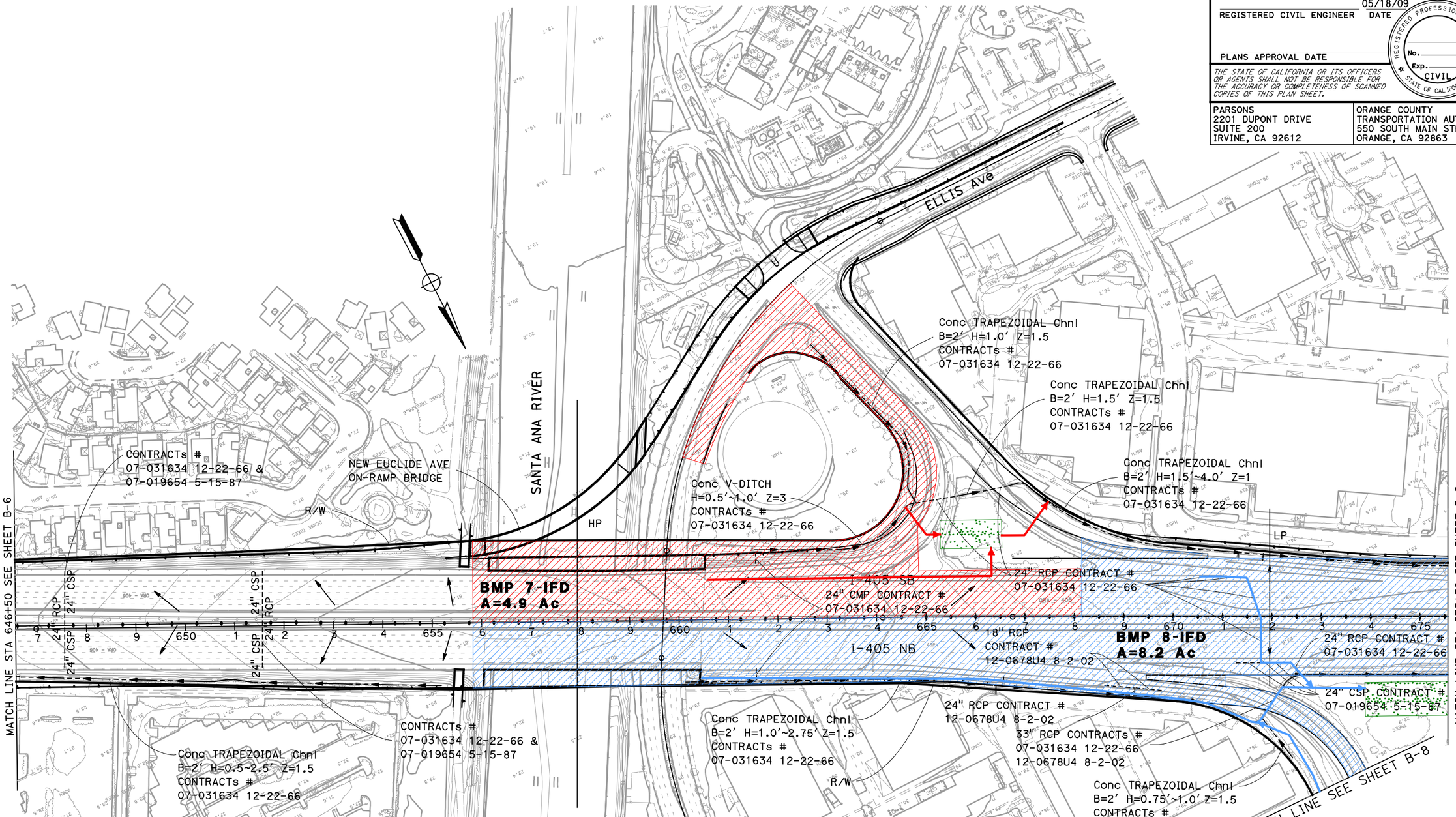

BMP LAYOUT
B-7

SCALE 1"=100'

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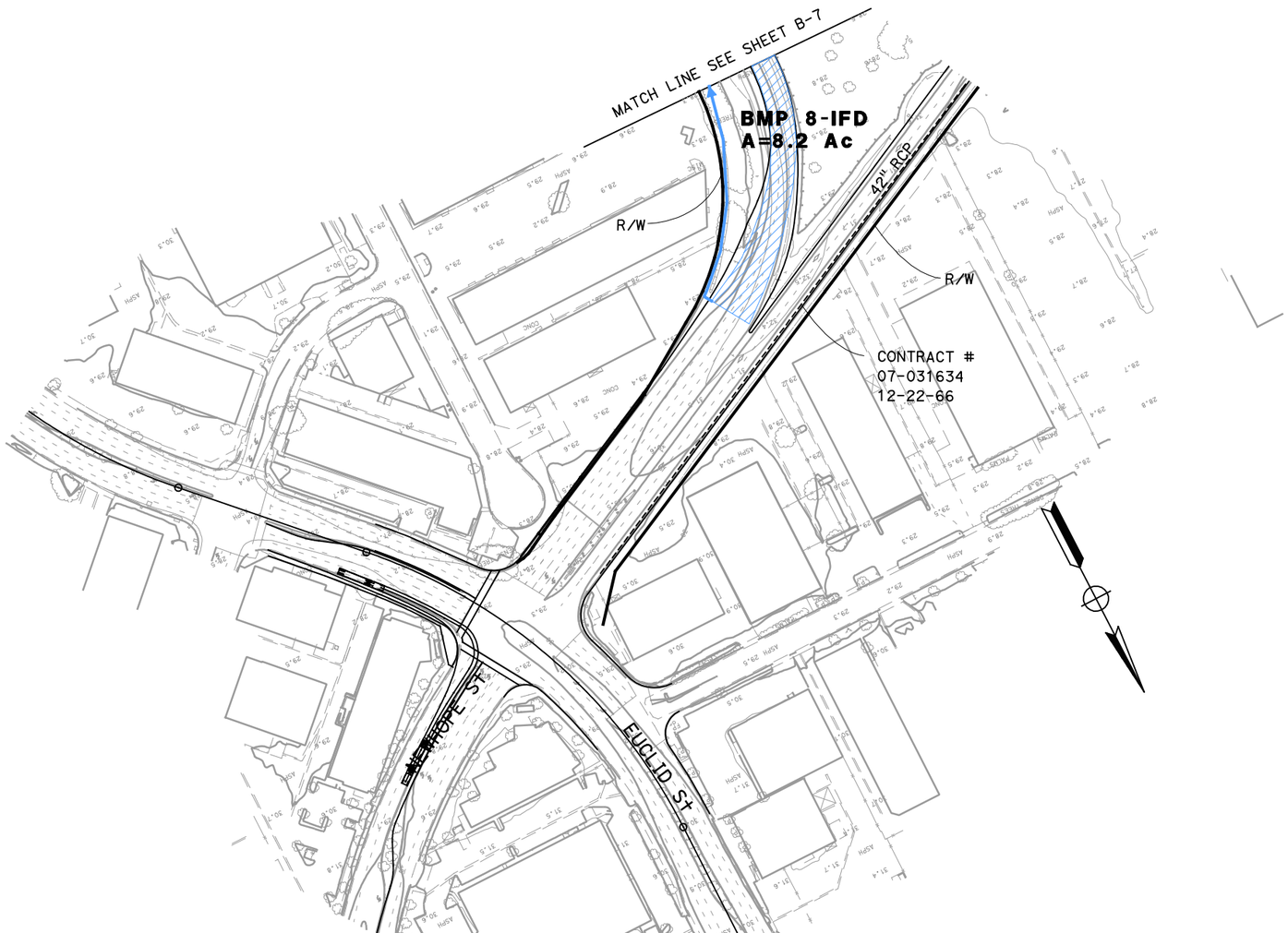

BMP LAYOUT
B-8

SCALE 1"=100'

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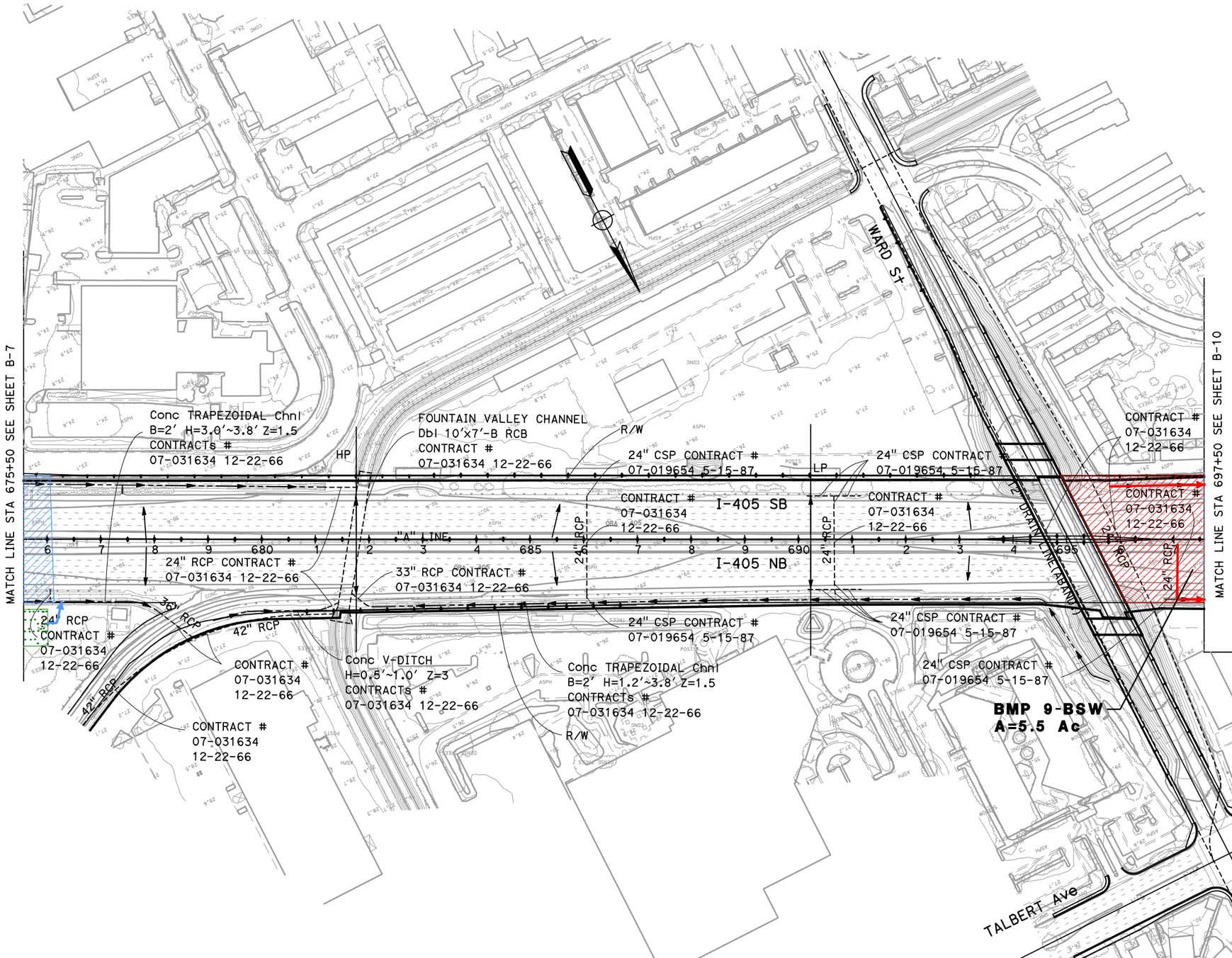

BMP LAYOUT
B-9

SCALE 1"=100'

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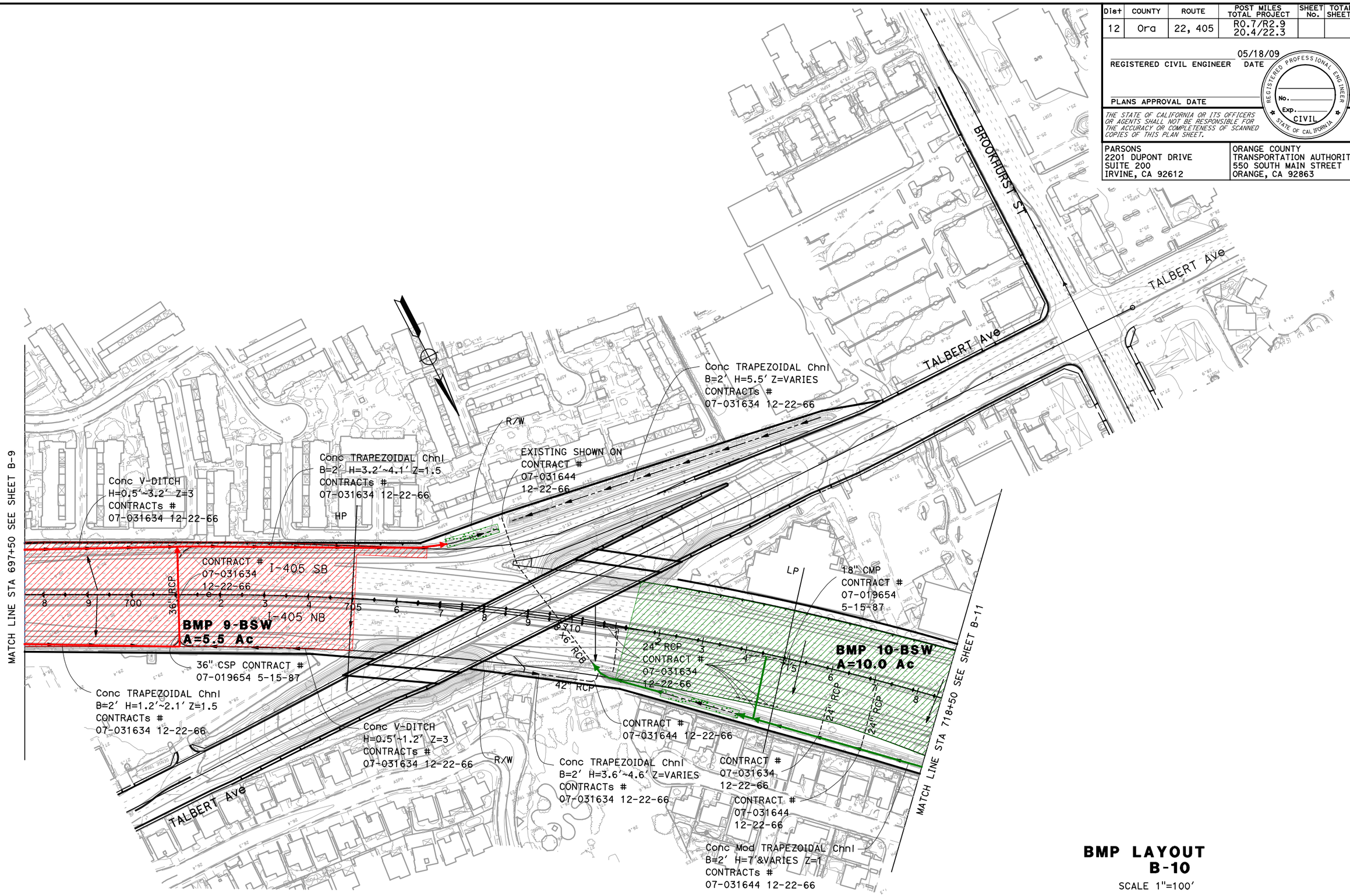

BMP LAYOUT
B-10

SCALE 1"=100'

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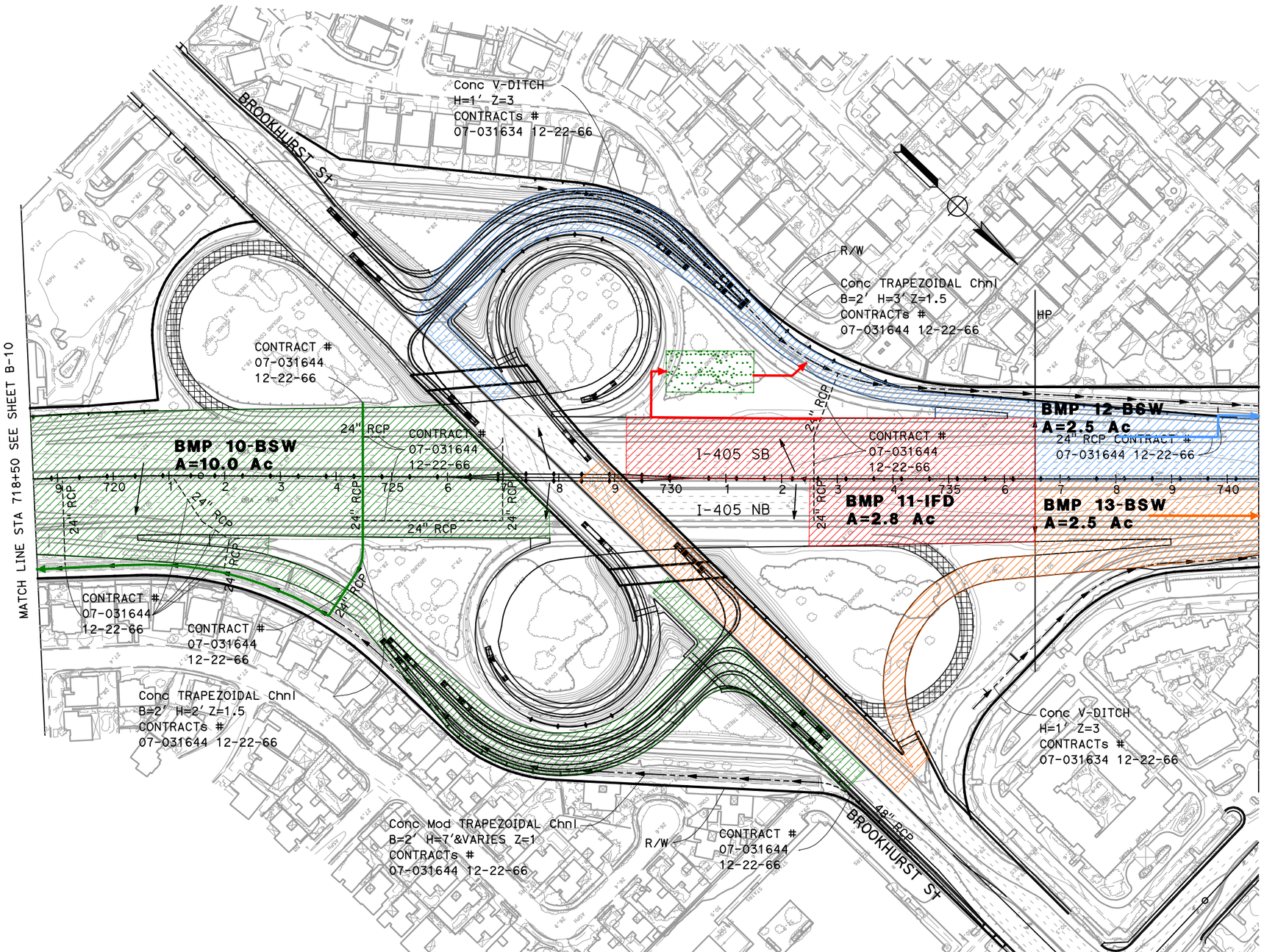

BMP LAYOUT
B-11

SCALE 1"=100'

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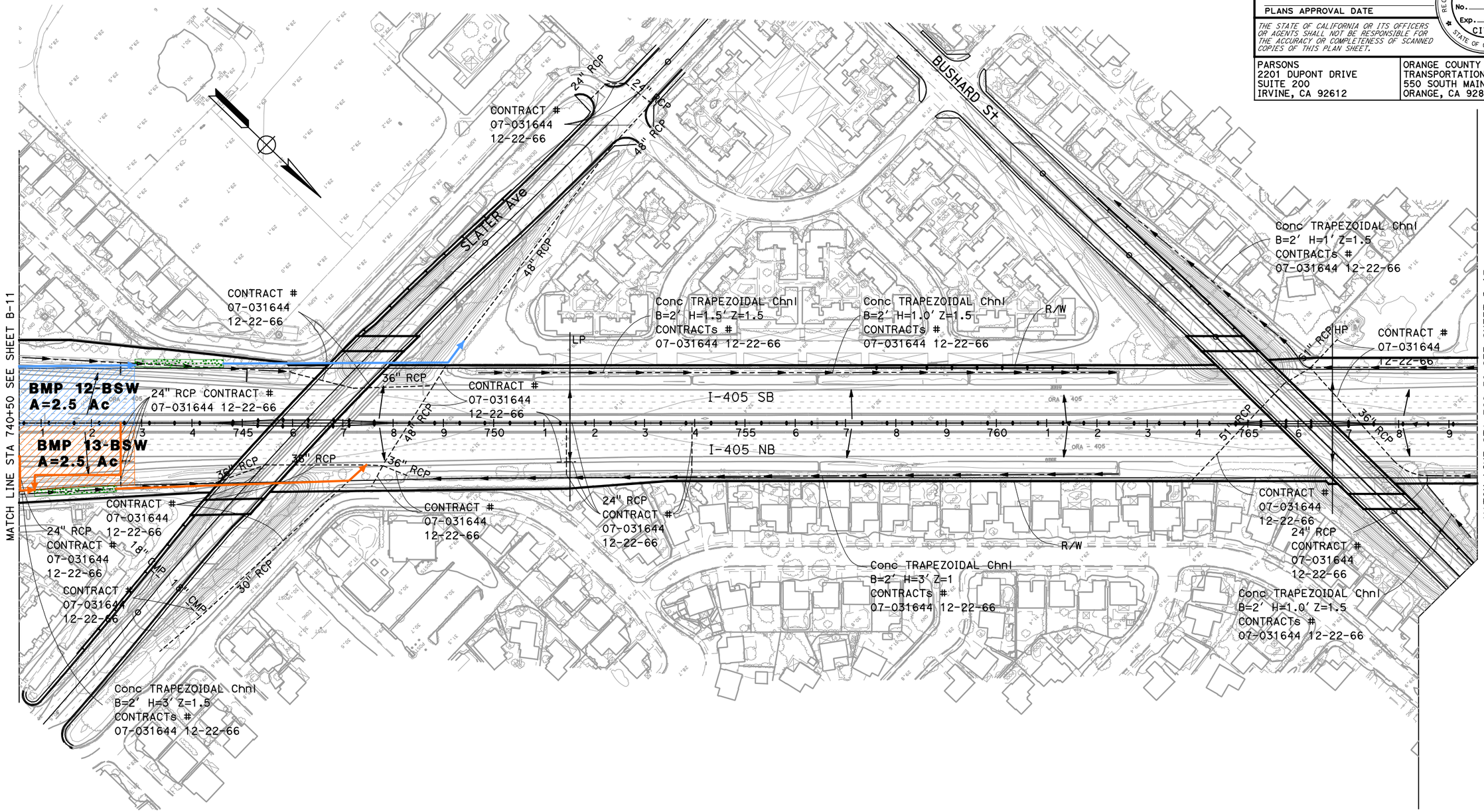

BMP LAYOUT
B-12

SCALE 1"=100'

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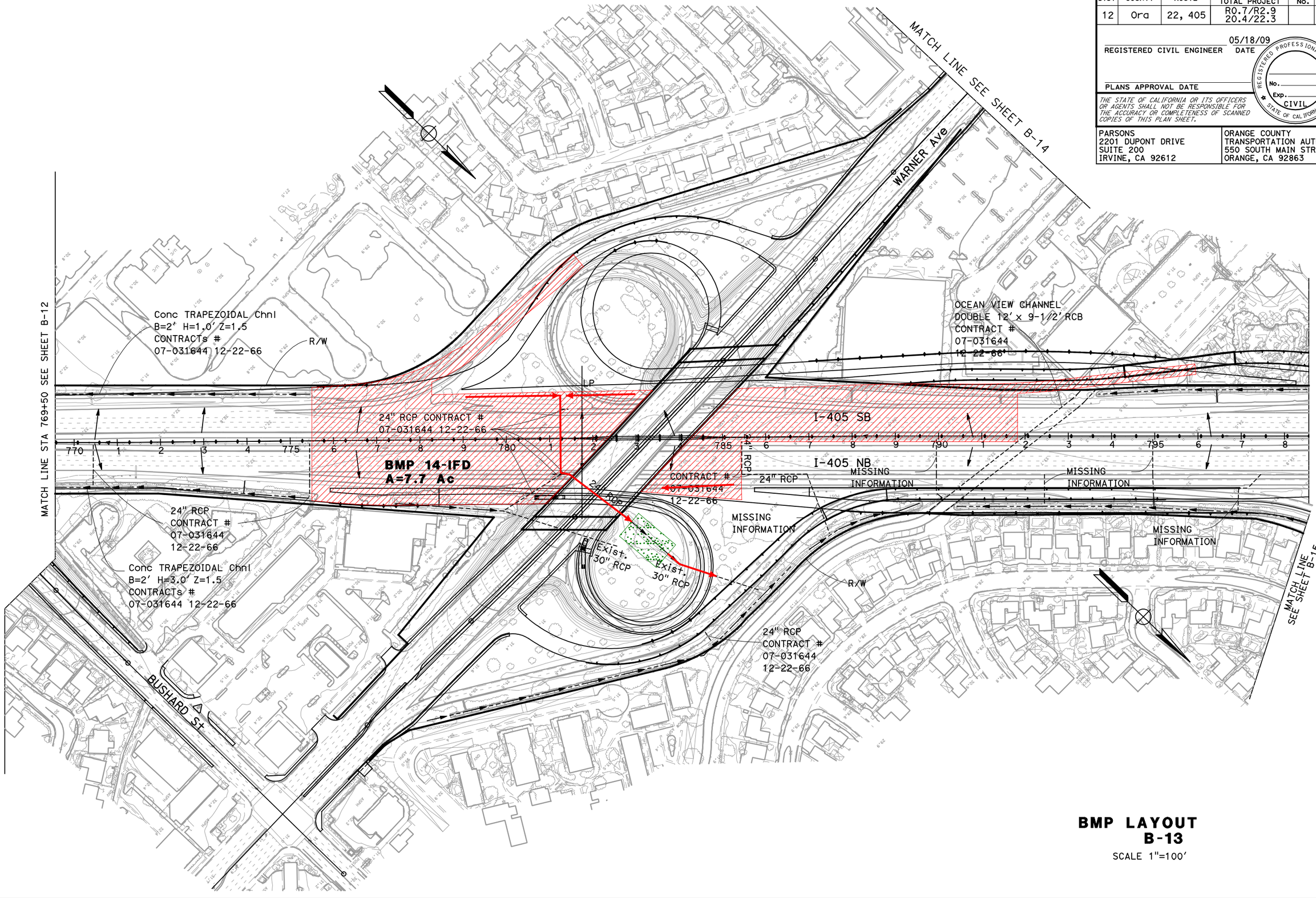

BMP LAYOUT
B-13

SCALE 1"=100'

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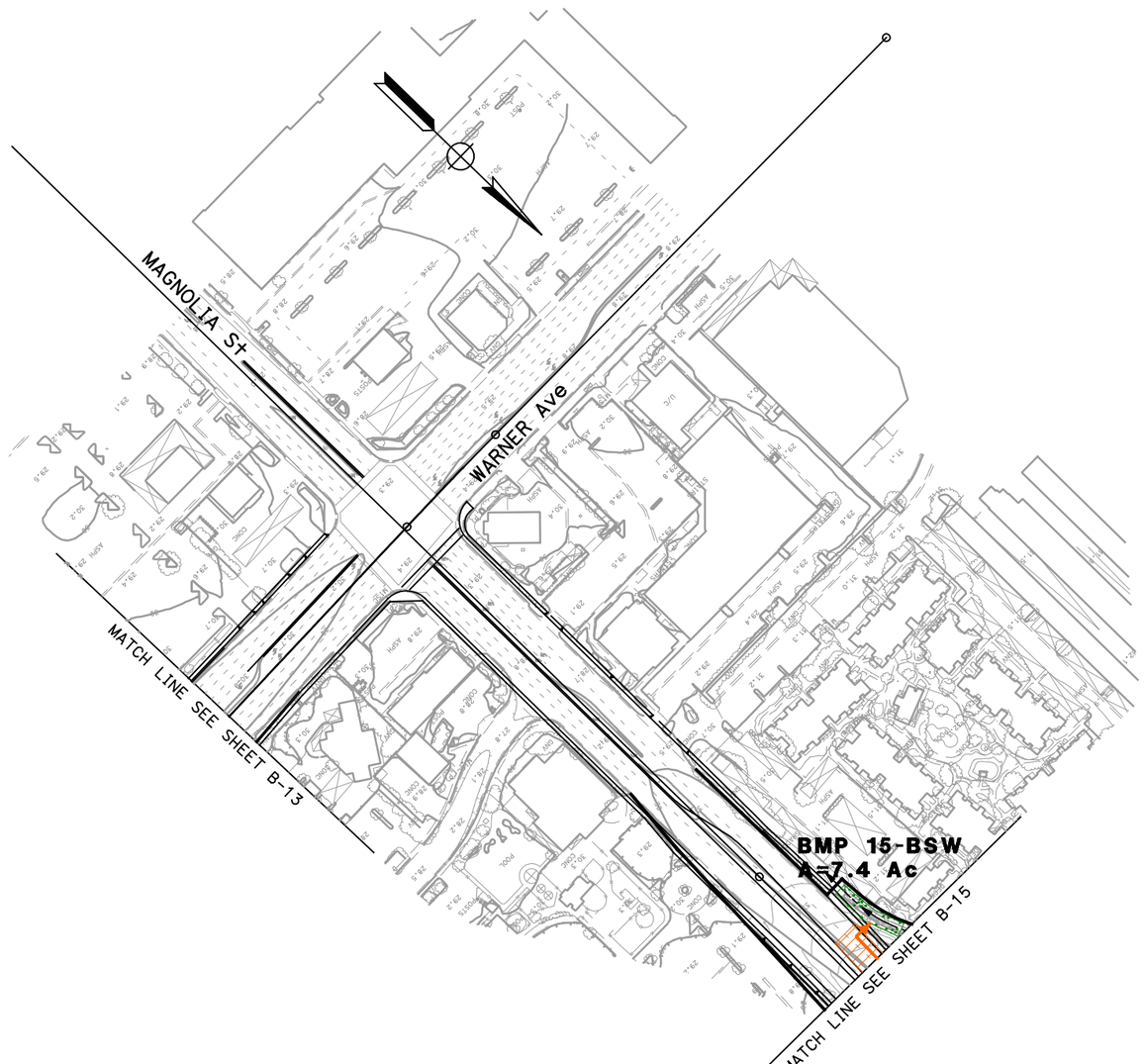

BMP LAYOUT
B-14

SCALE 1"=100'

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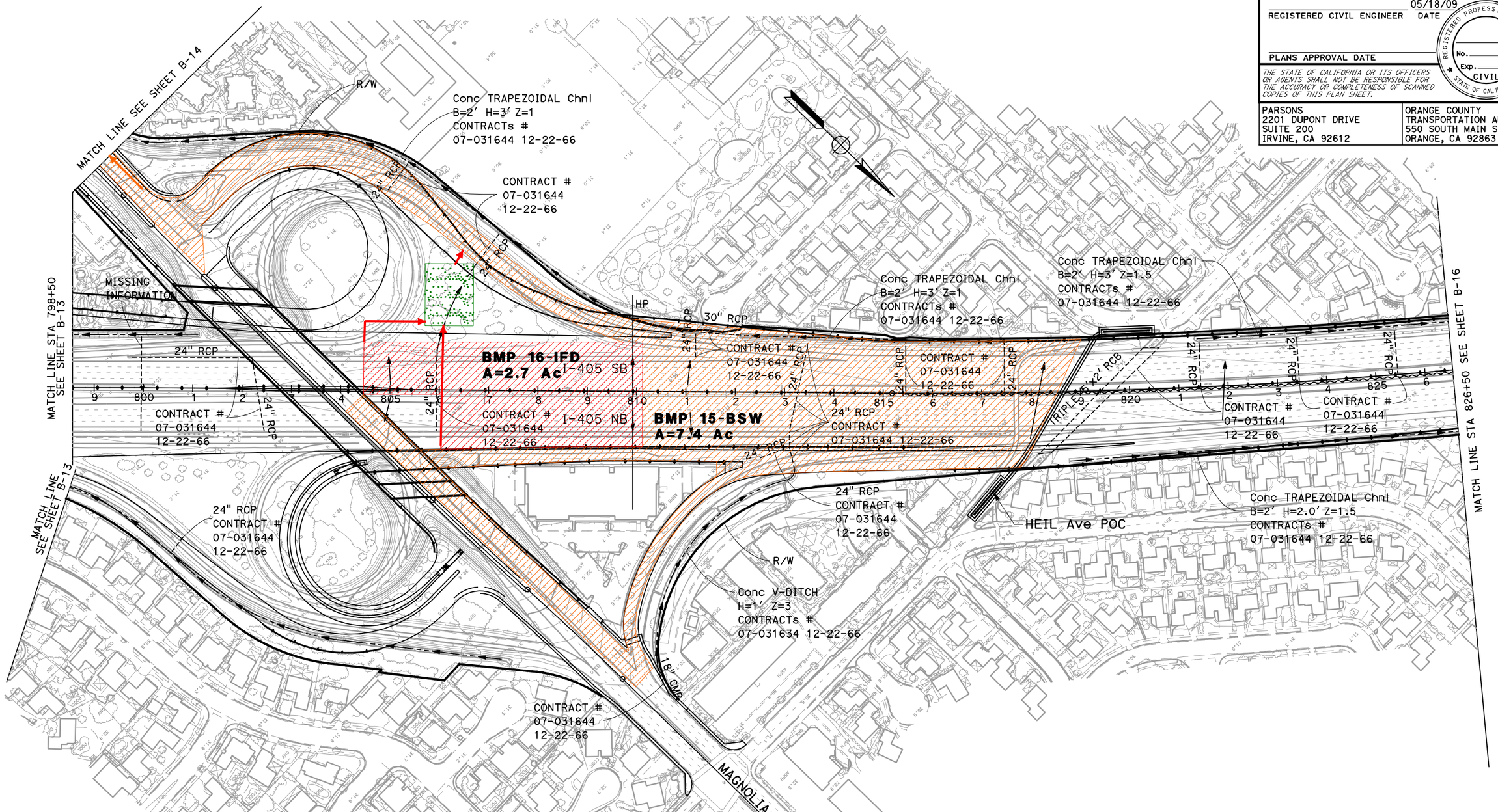

BMP LAYOUT
B-15

SCALE 1"=100'

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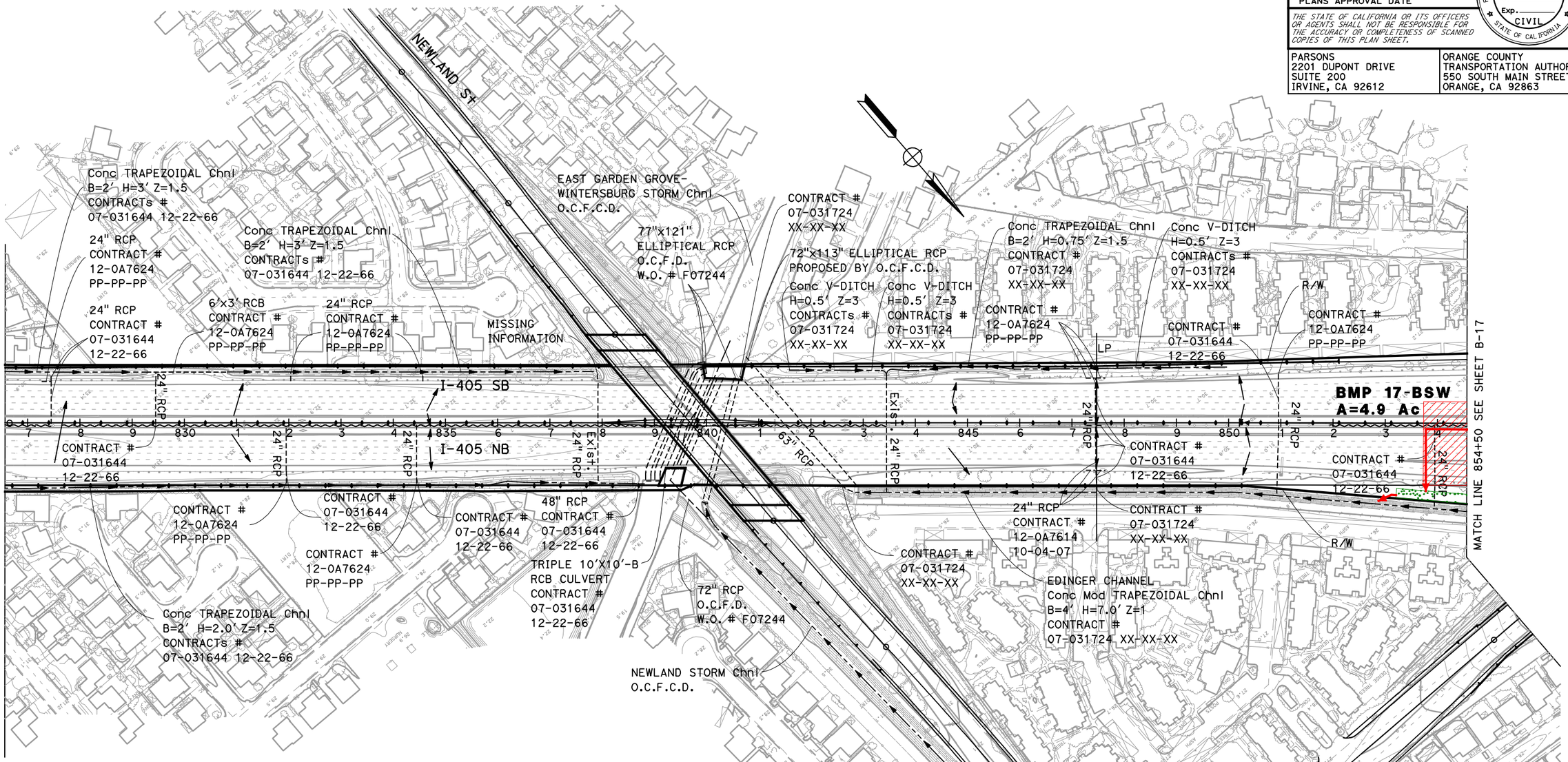

BMP LAYOUT
B-16
SCALE 1"=100'

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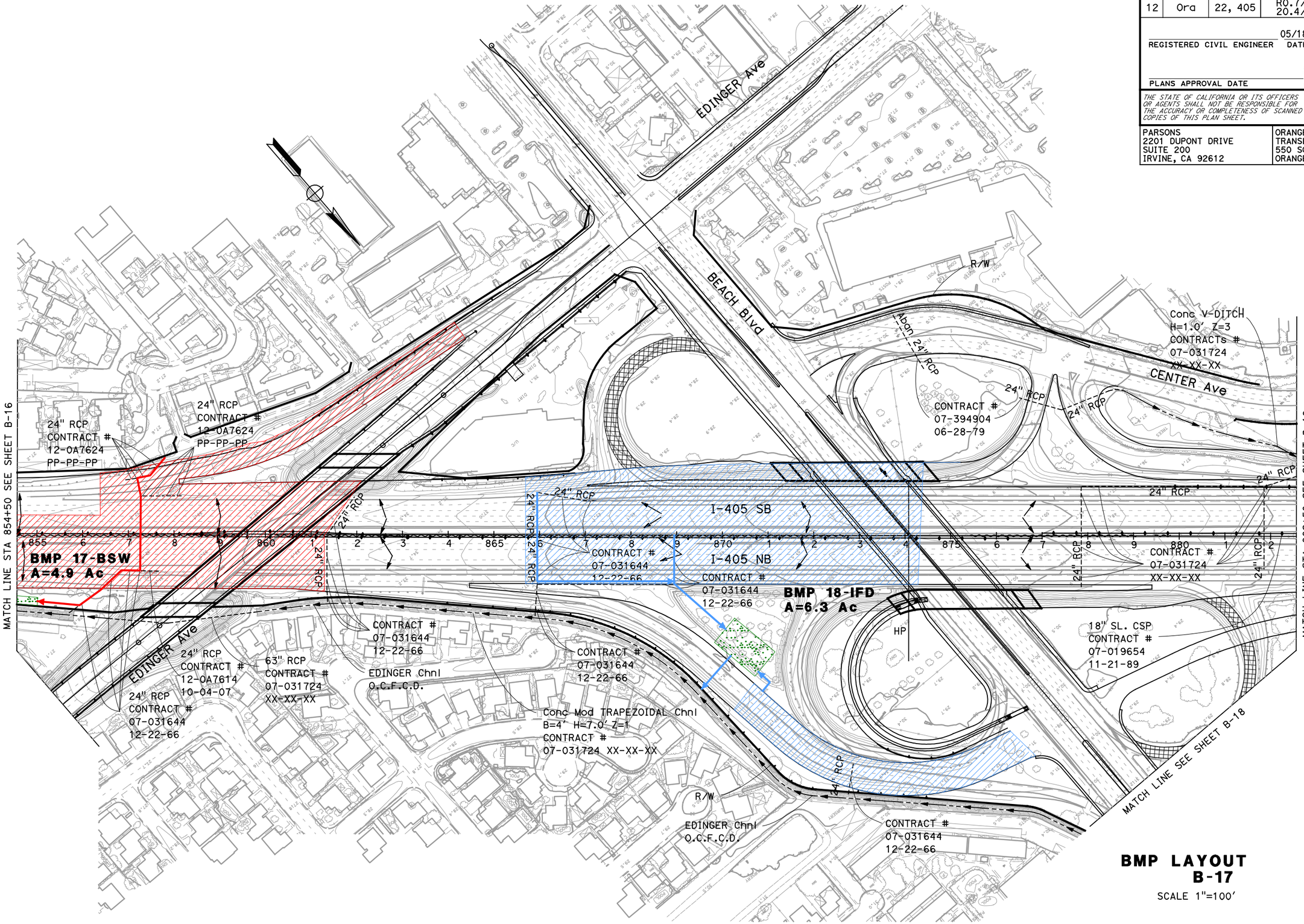

BMP LAYOUT
B-17

SCALE 1"=100'

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BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => $USER
DGN FILE => $REQUEST

CU 12235

EA 071621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22, 405	R0.7/R2.9 20.4/22.3		

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SUITE 200
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TRANSPORTATION AUTHORITY
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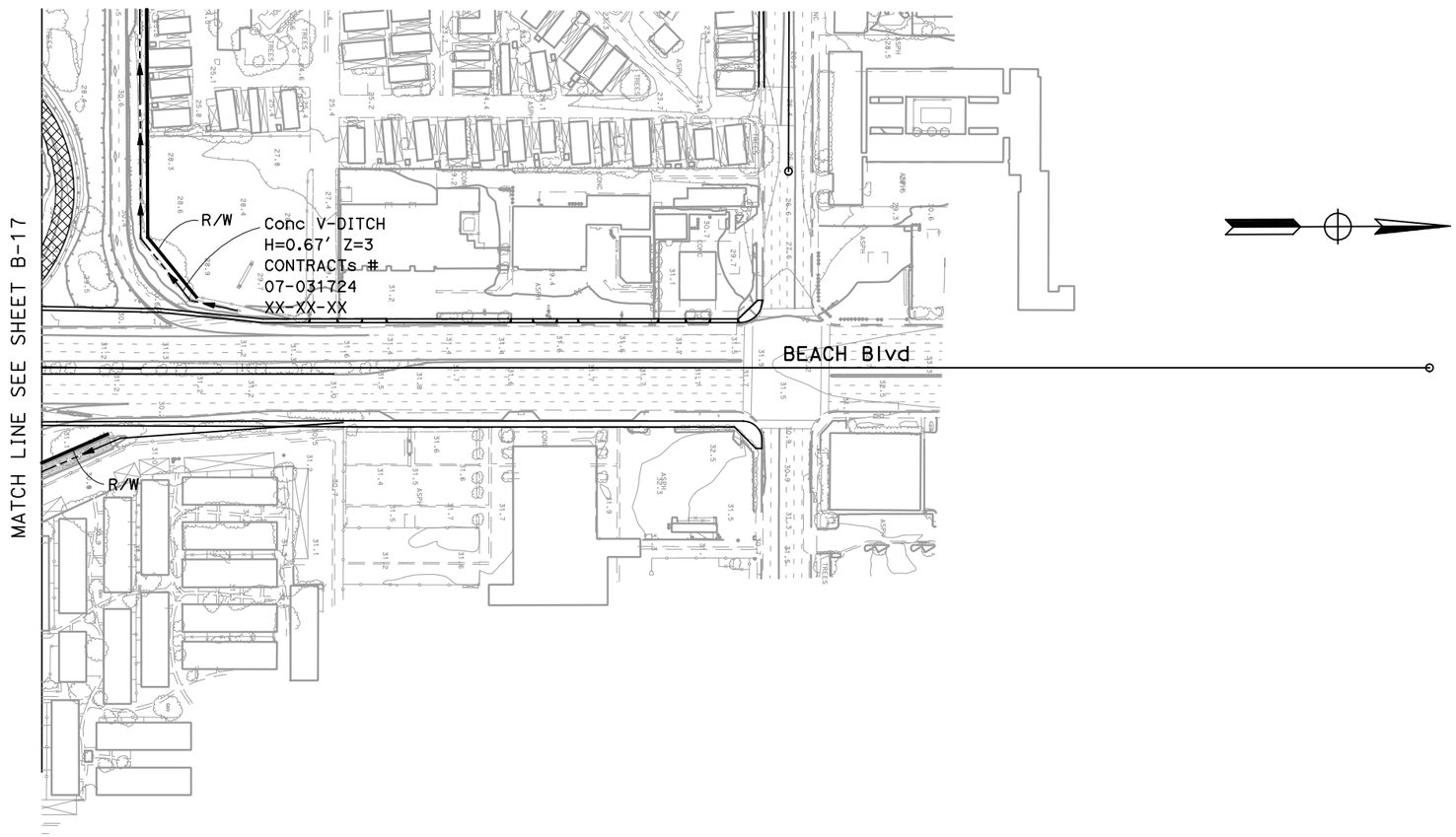
ORANGE, CA 92863



No BMPs on this sheet

BMP LAYOUT
B-18

SCALE 1"=100'

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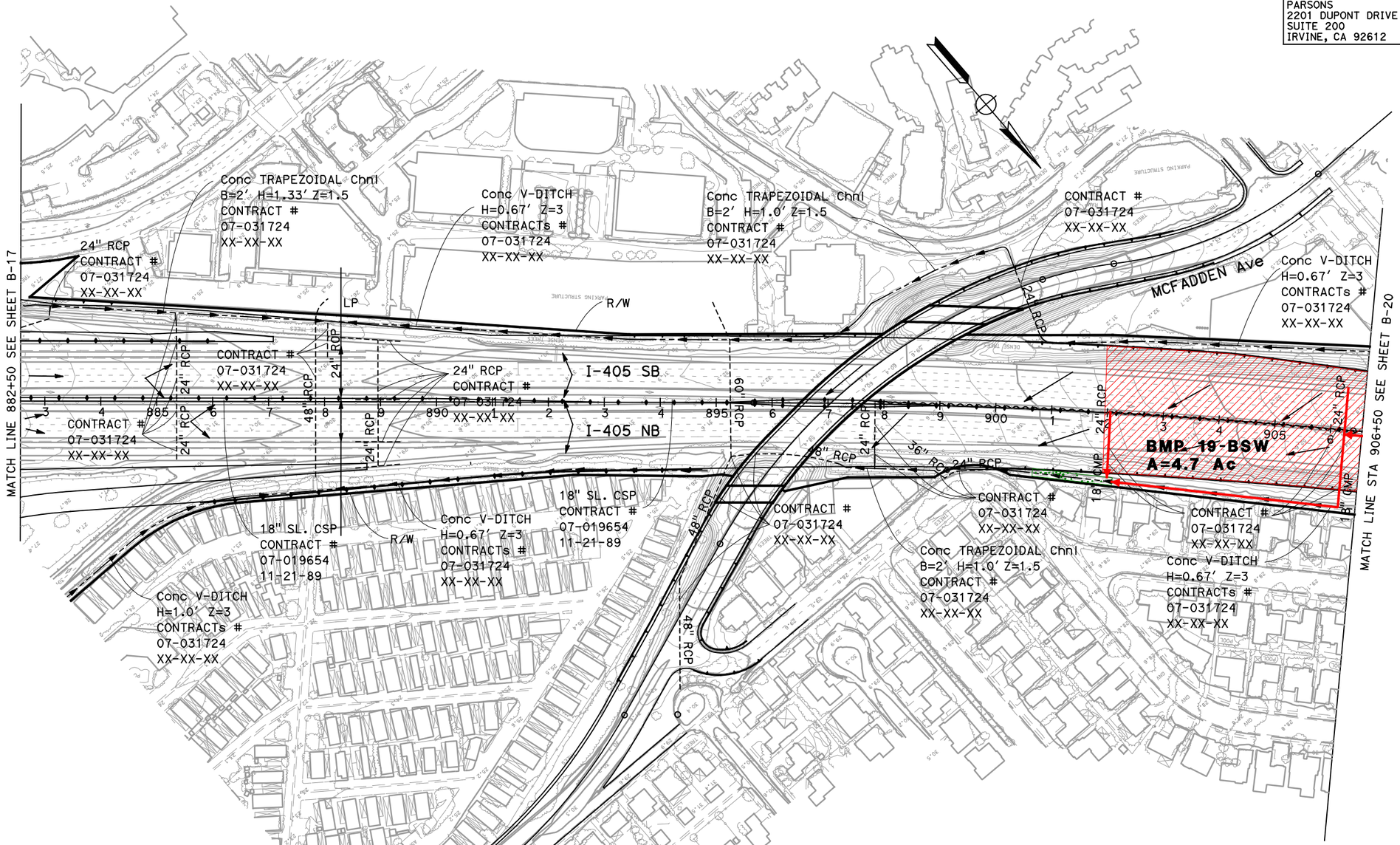

BMP LAYOUT
B-19

SCALE 1"=100'

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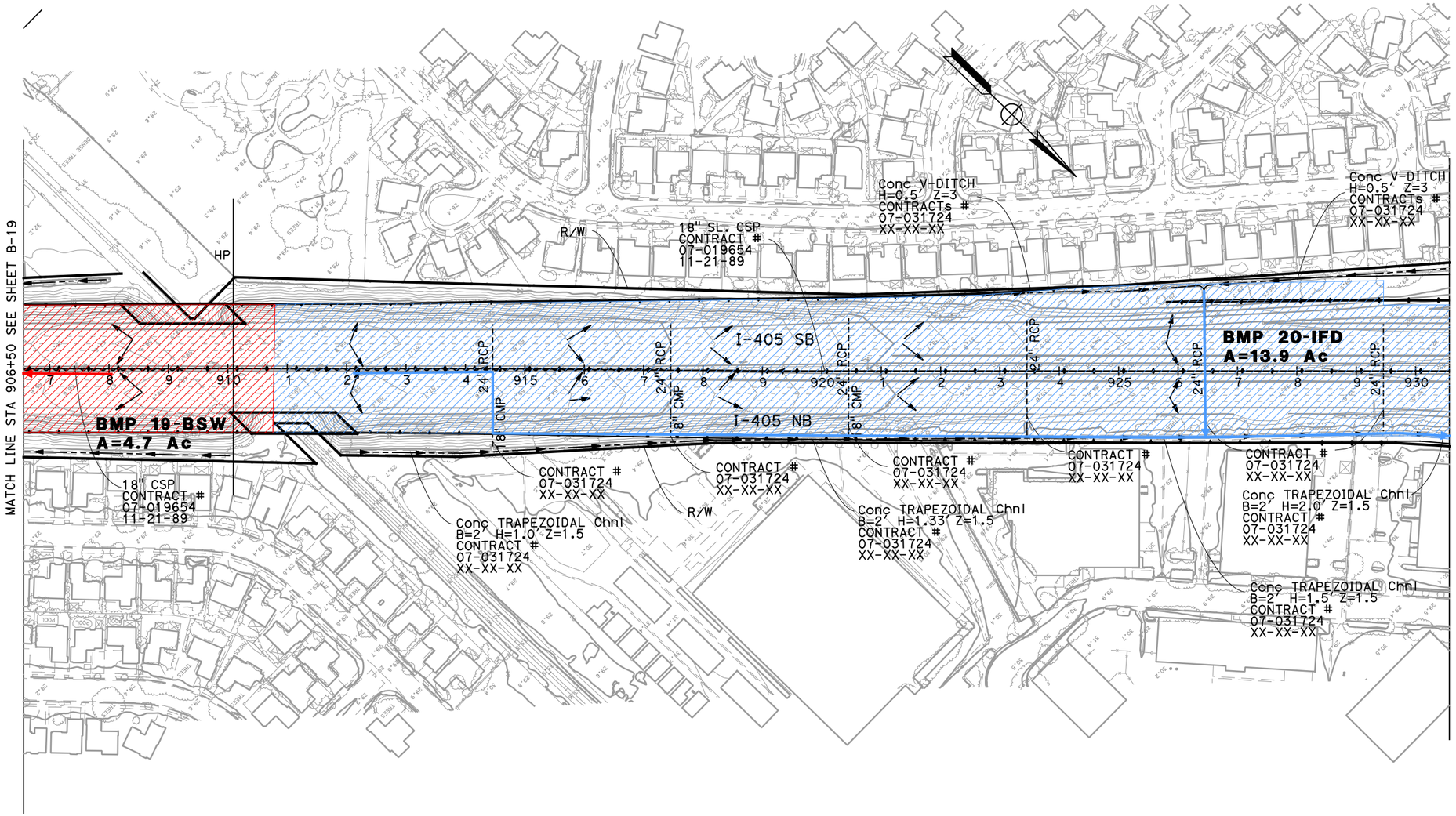

BMP LAYOUT
B-20

SCALE 1"=100'

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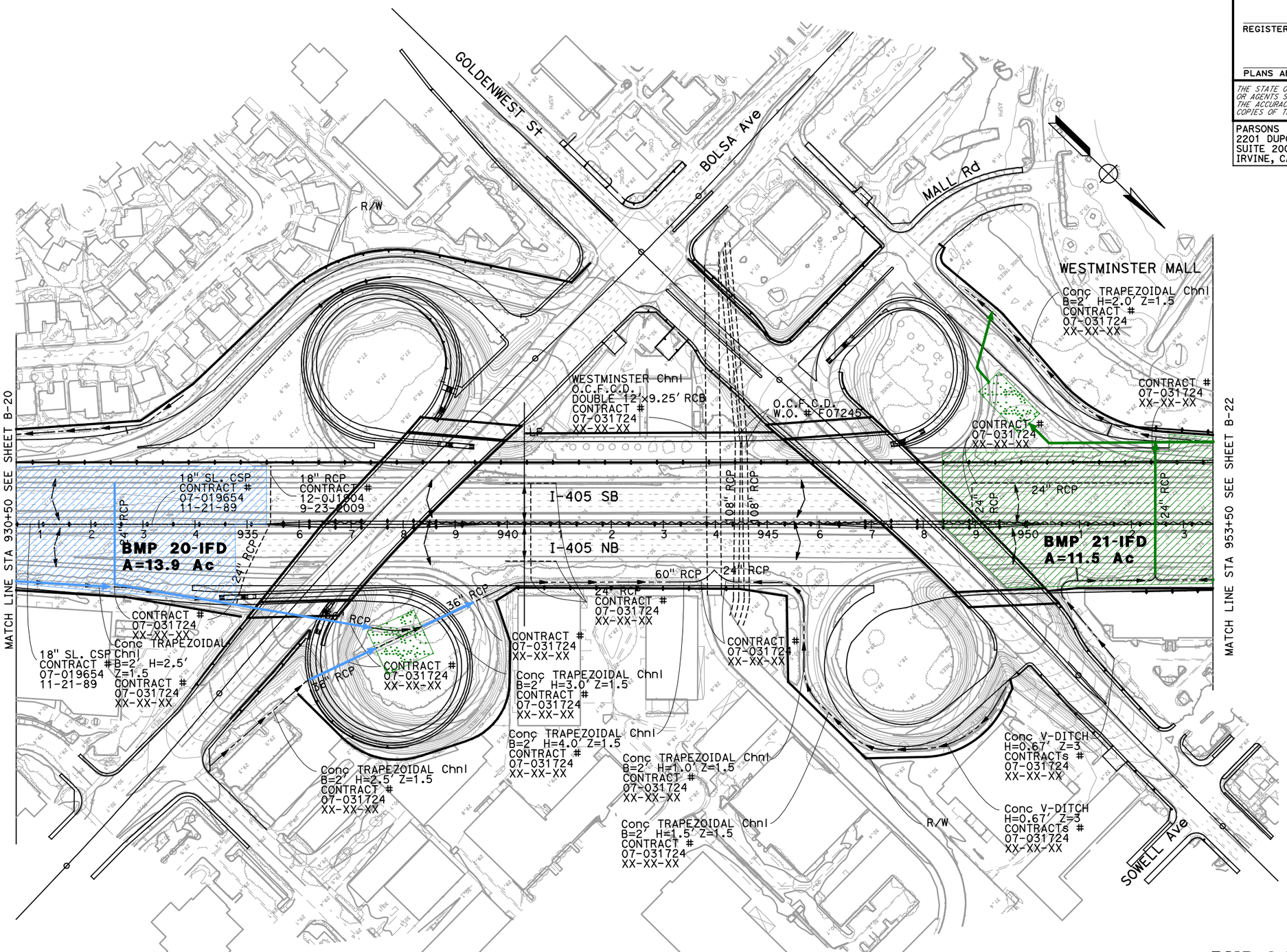

BMP LAYOUT
B-21

SCALE 1"=100'

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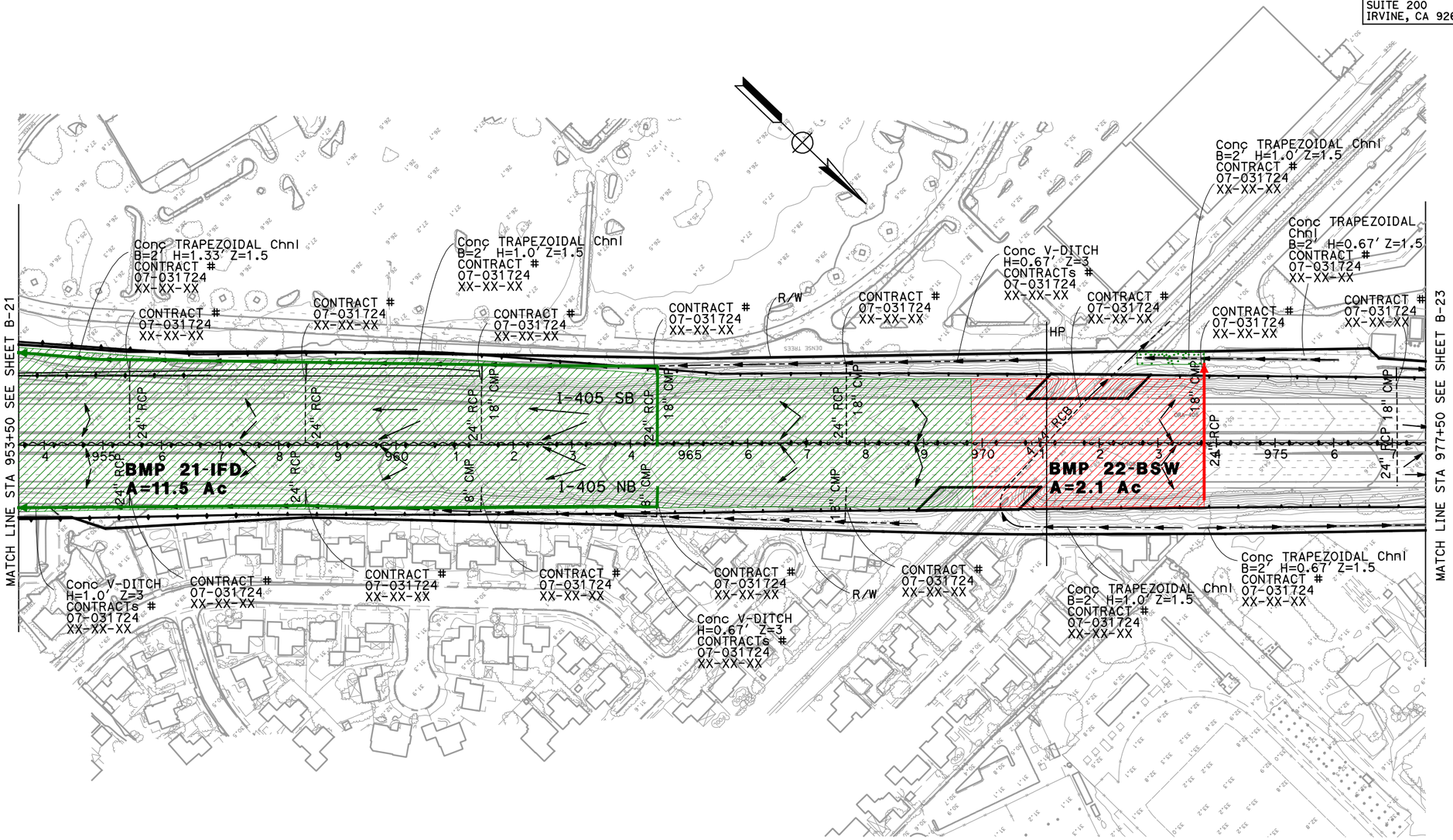

BMP LAYOUT
B-22

SCALE 1"=100'

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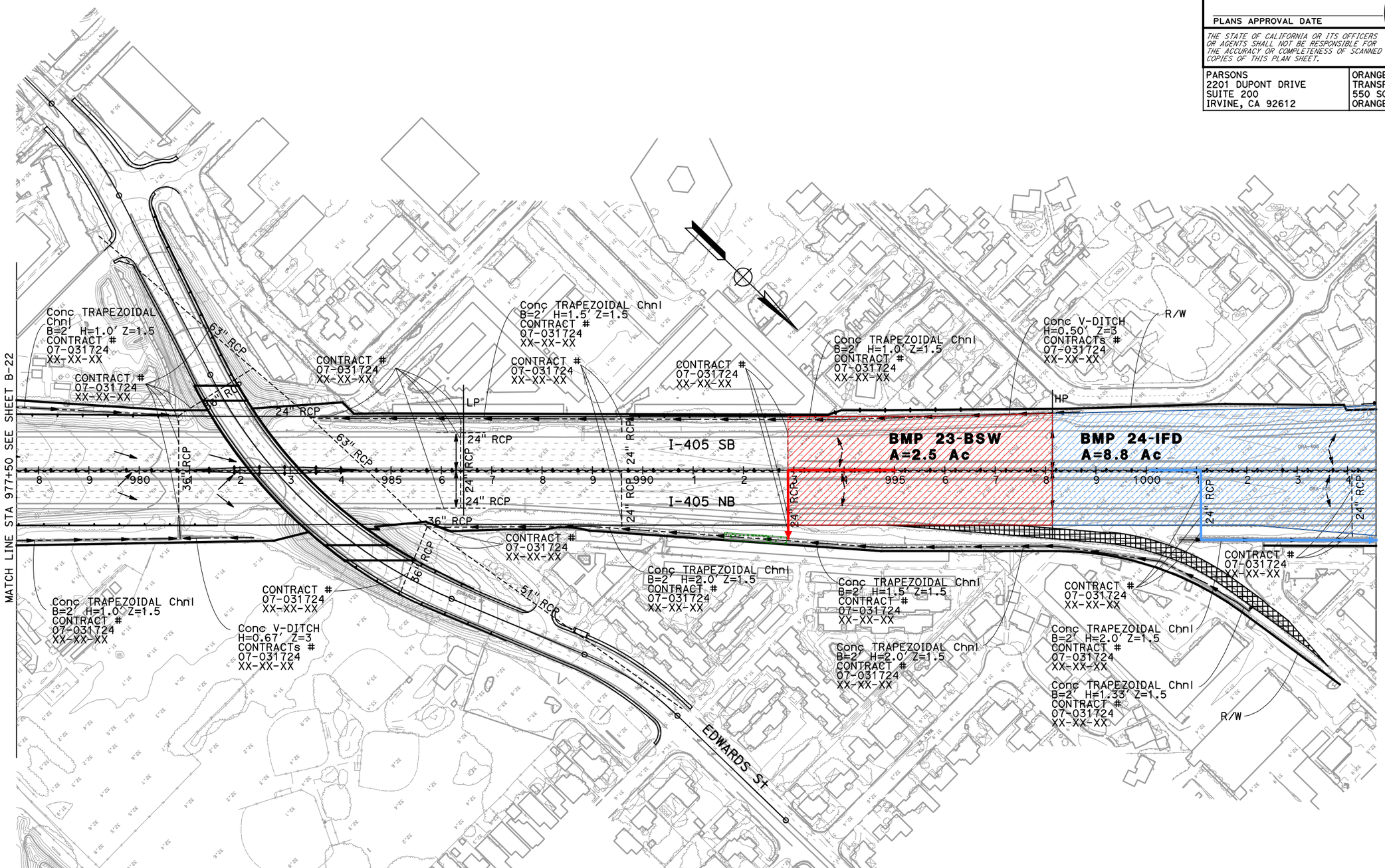

BMP LAYOUT
B-23

SCALE 1"=100'

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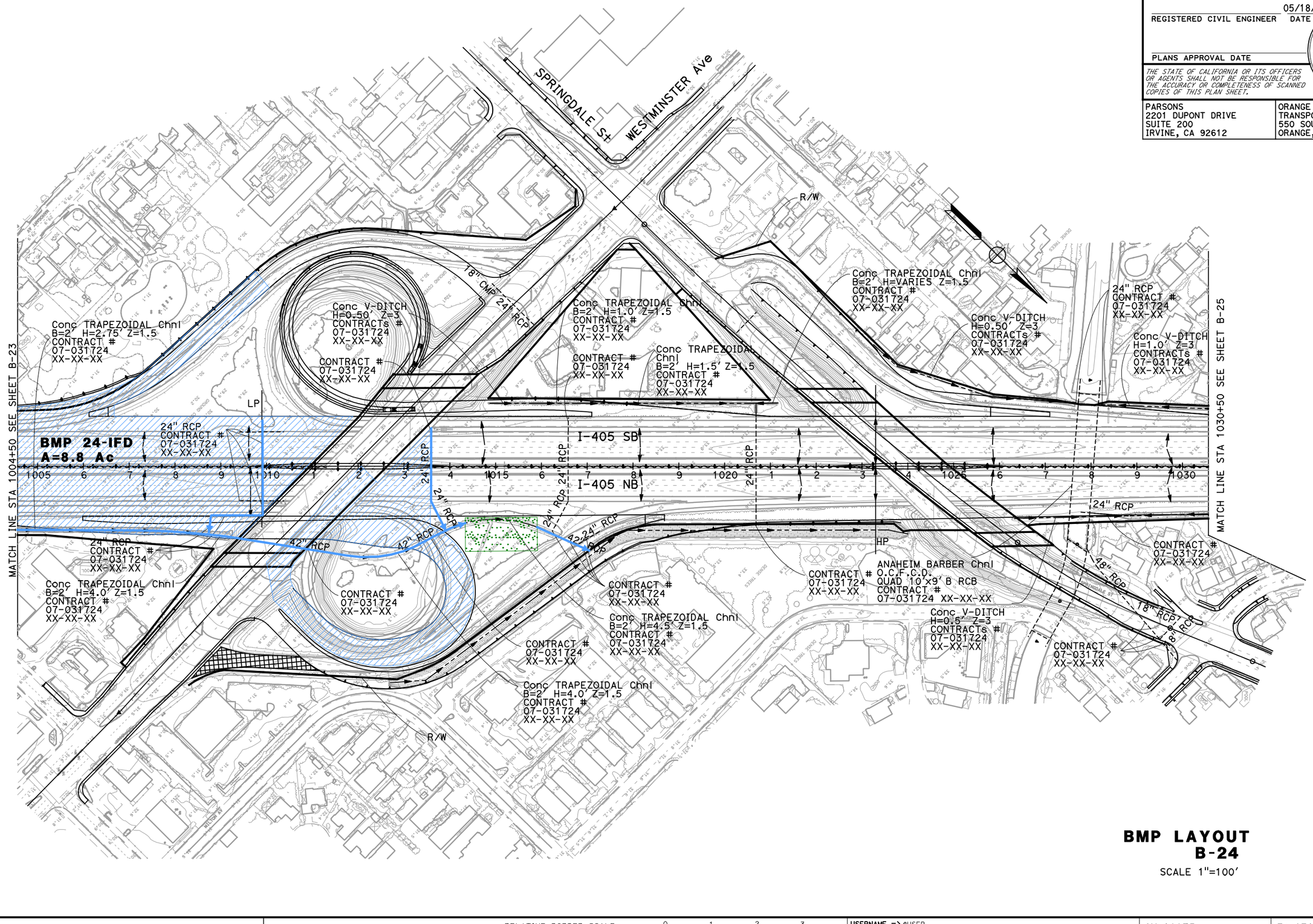

BMP LAYOUT
B-24

SCALE 1"=100'

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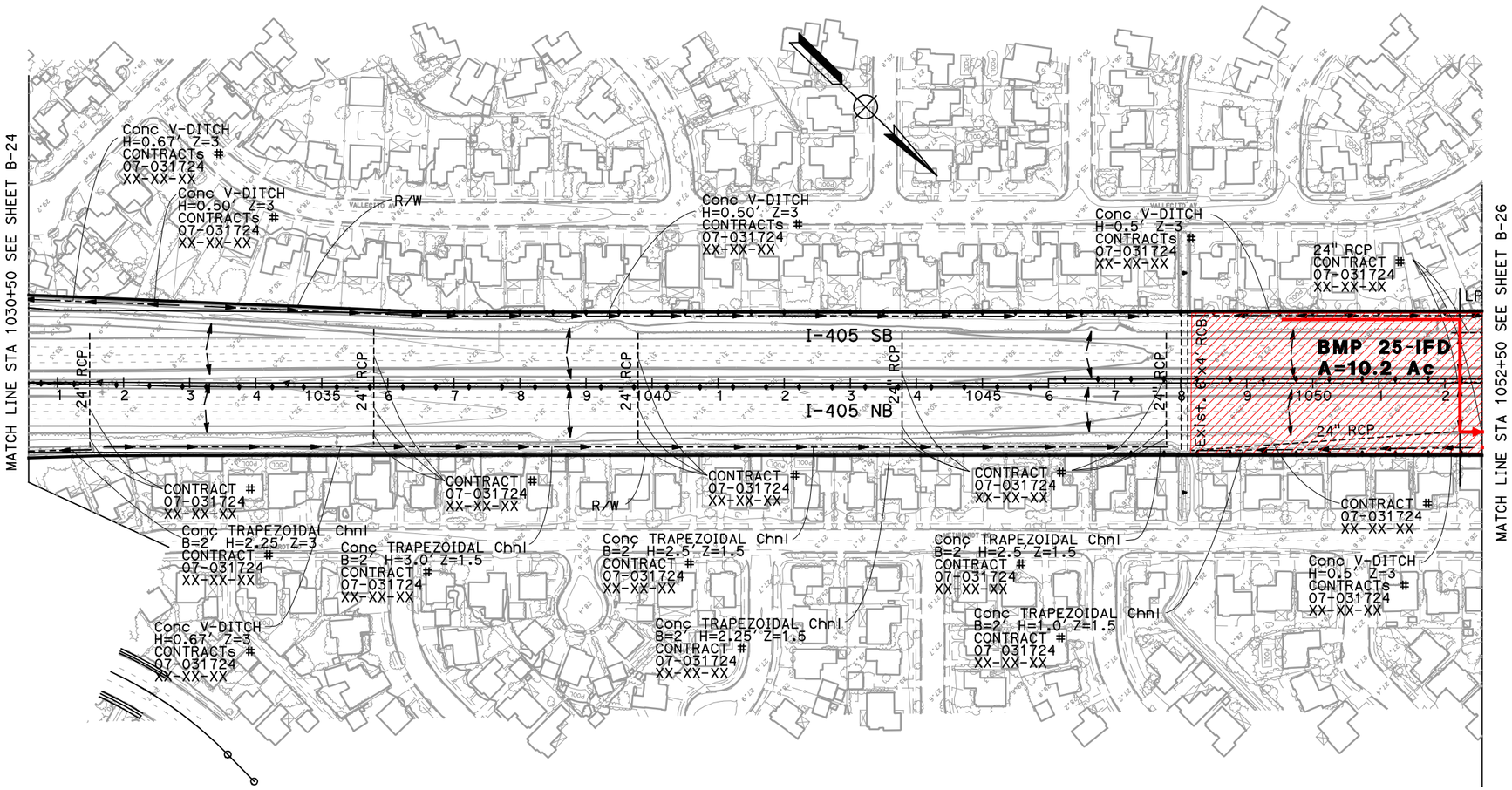

BMP LAYOUT
B-25

SCALE 1"=100'

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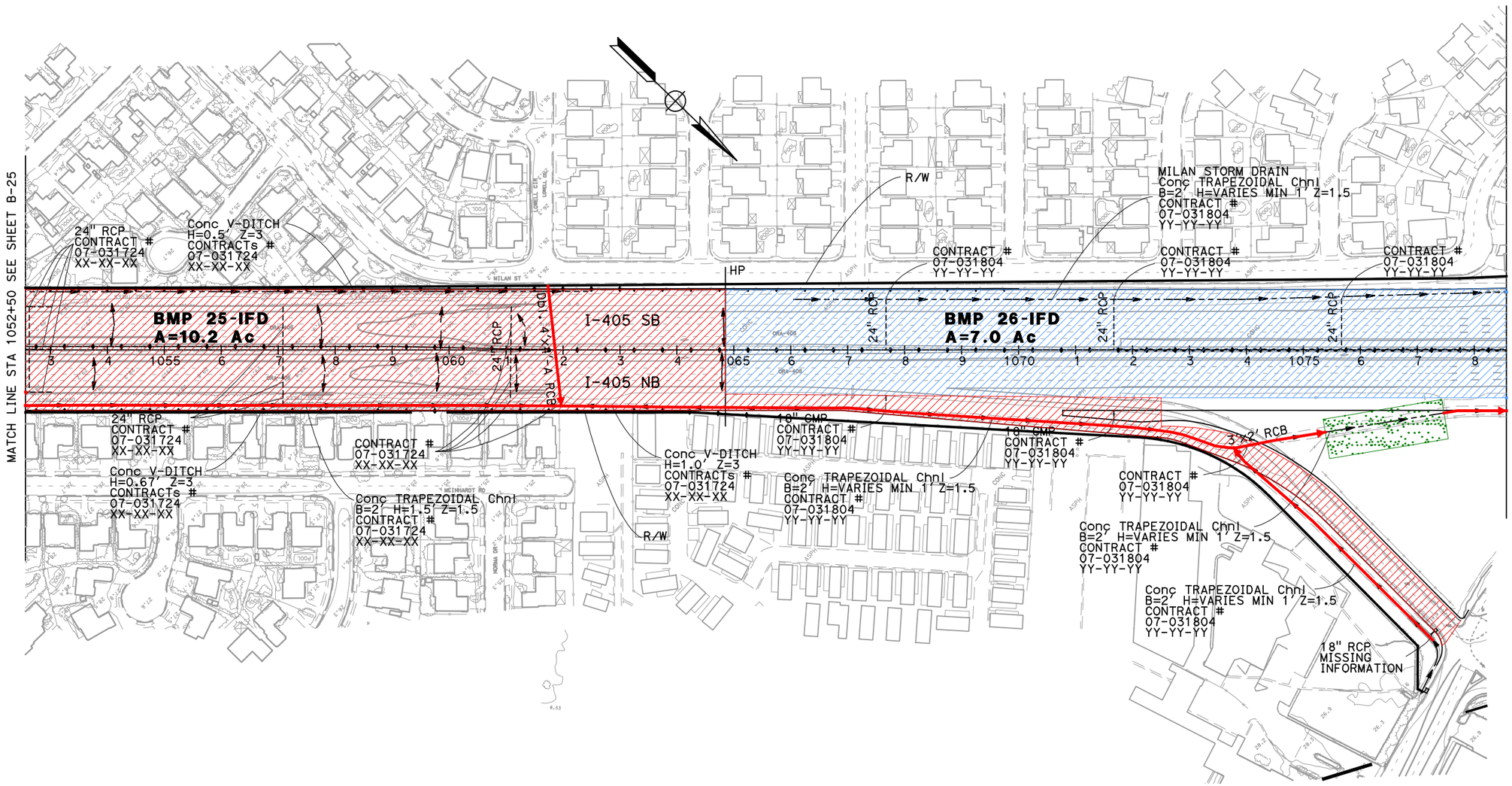

BMP LAYOUT
B-26

SCALE 1"=100'

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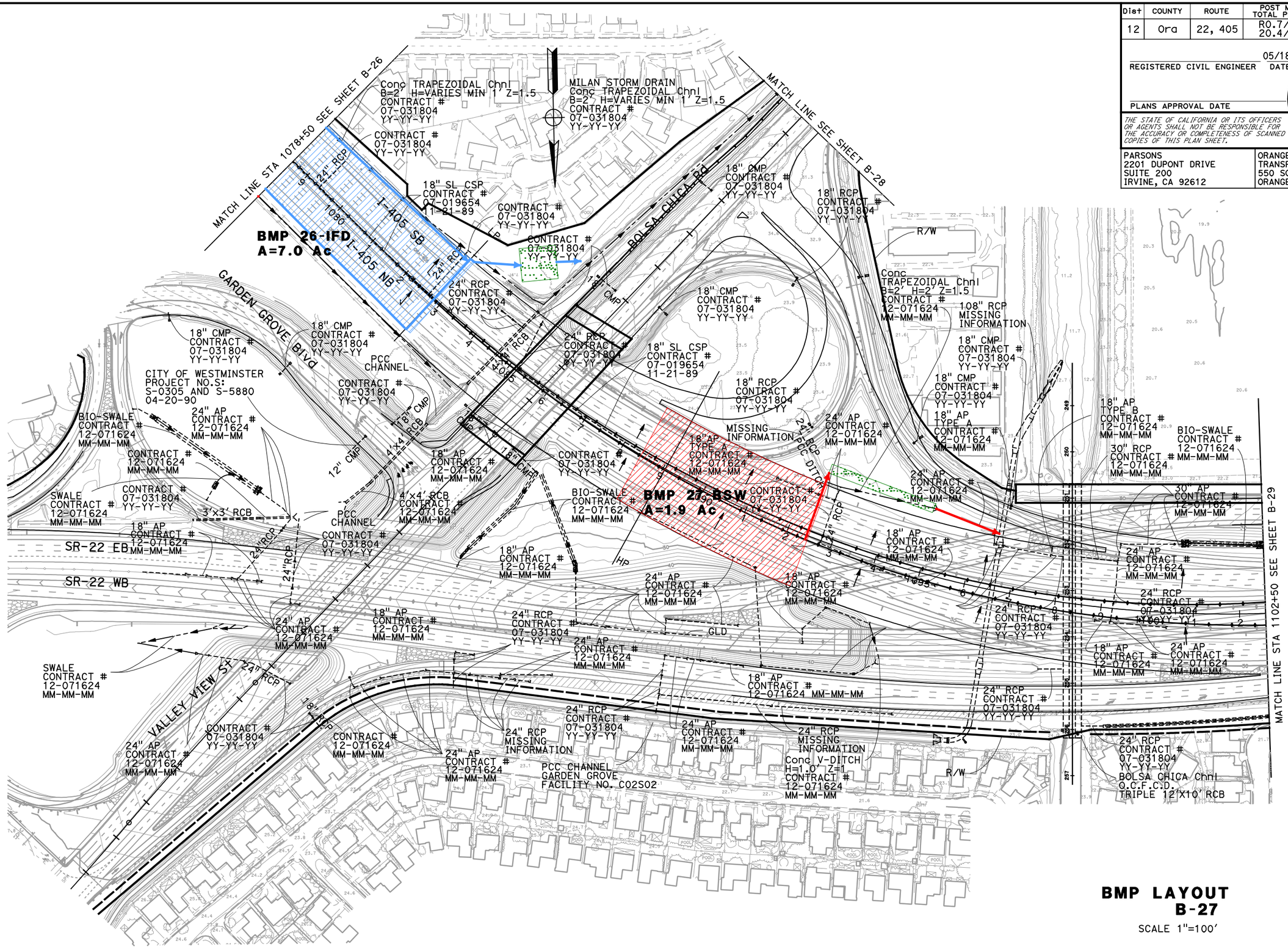

BMP LAYOUT
B-27

SCALE 1"=100'

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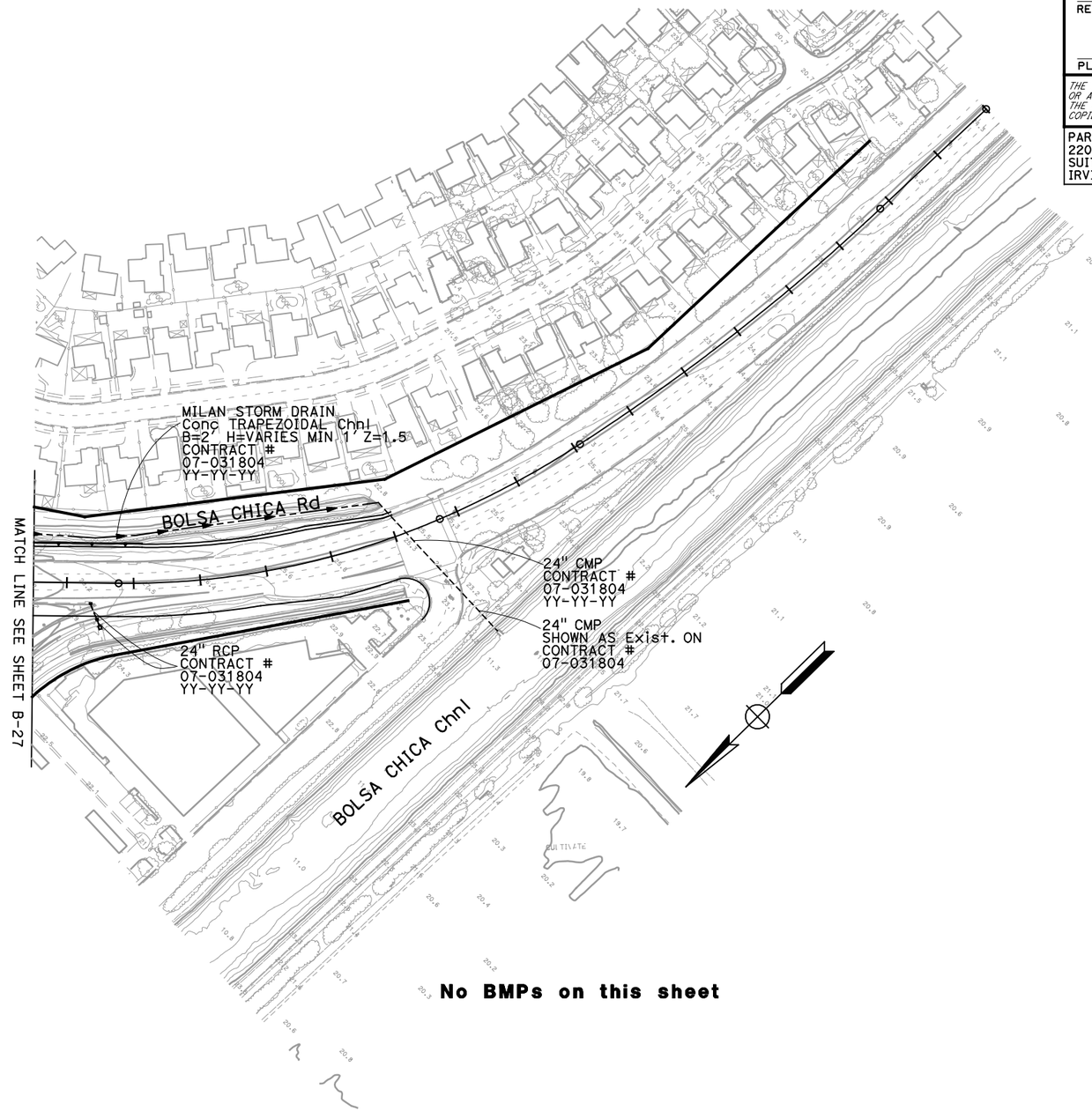
ORANGE, CA 92863



No BMPs on this sheet

BMP LAYOUT
B-28

SCALE 1"=100'

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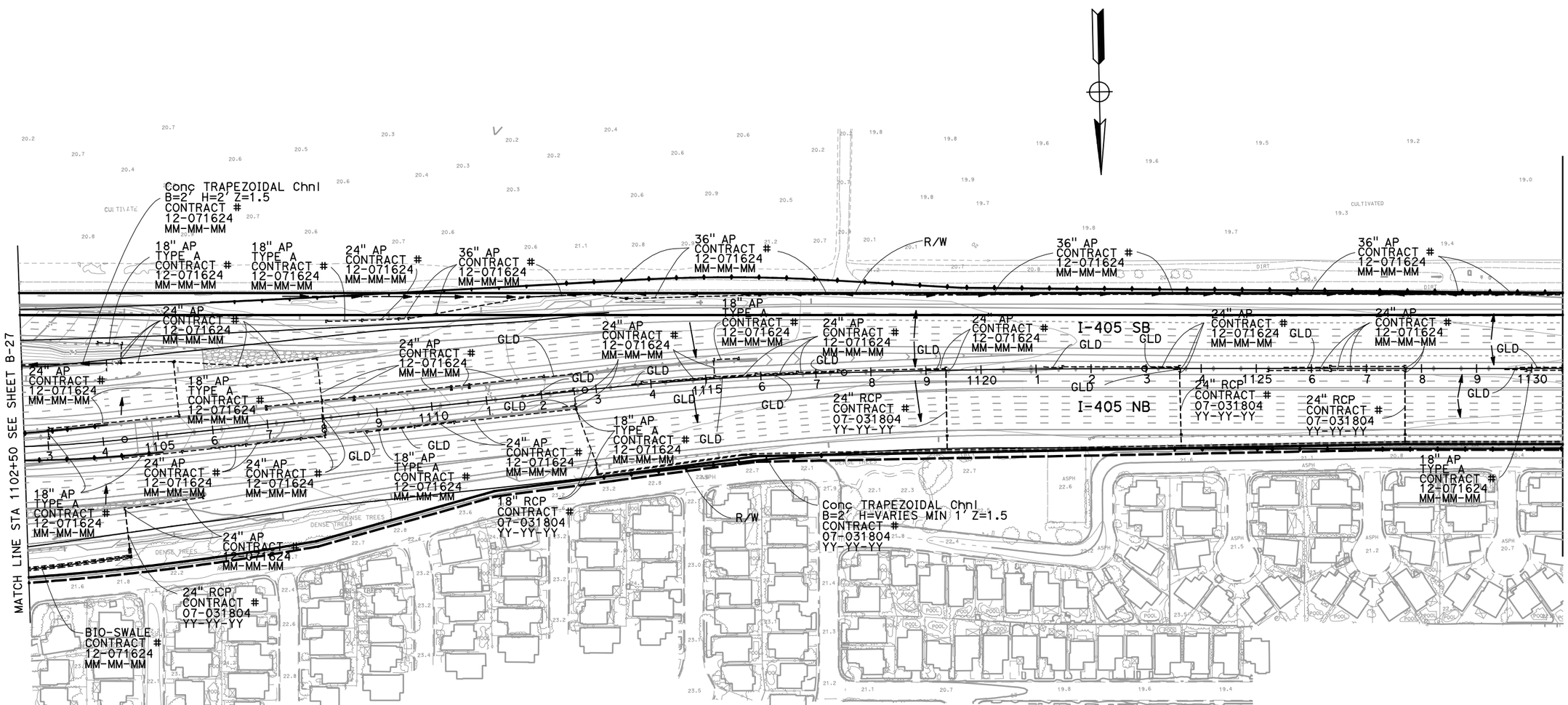

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BMP LAYOUT
B-29

SCALE 1"=100'

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => $USER

DGN FILE => $REQUEST

CU 12235

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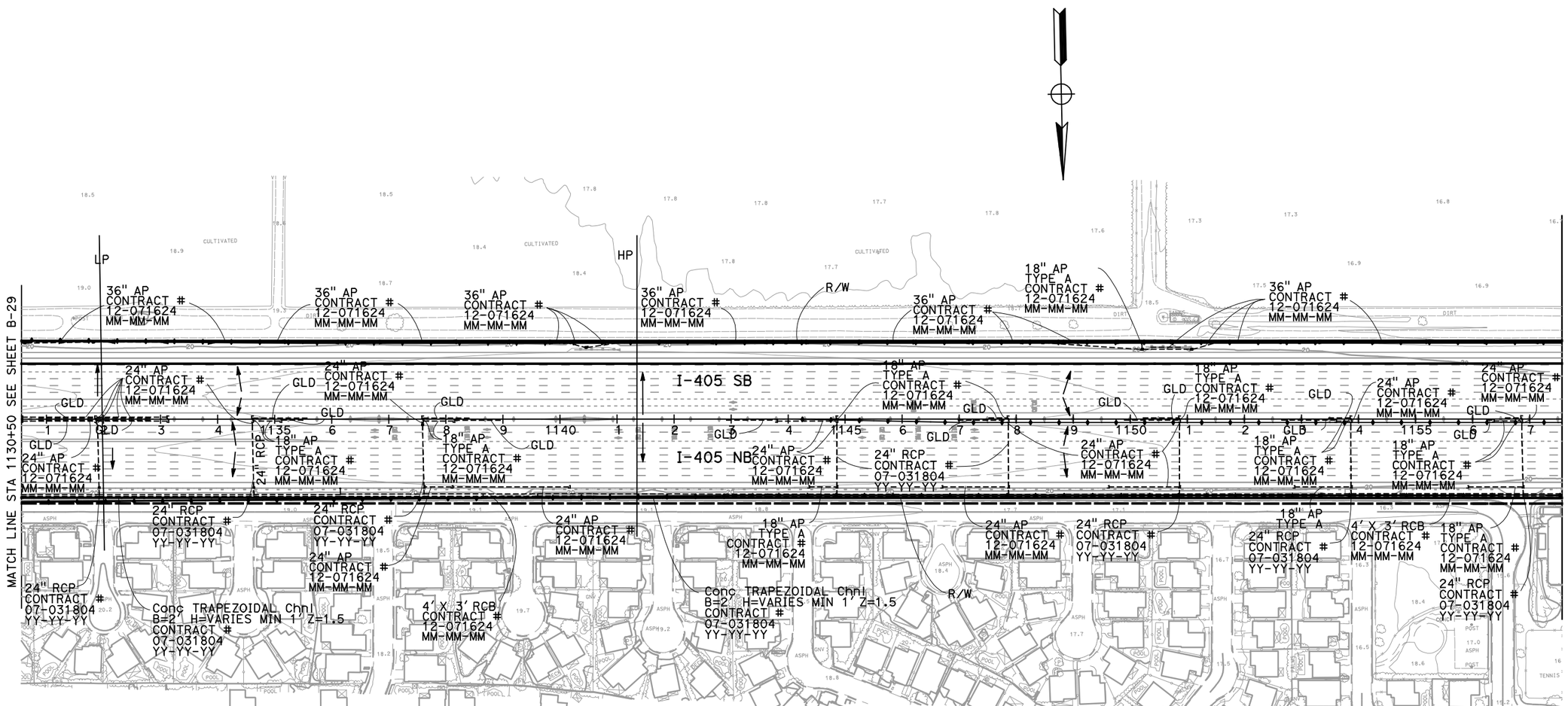

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BMP LAYOUT
B-30

SCALE 1"=100'

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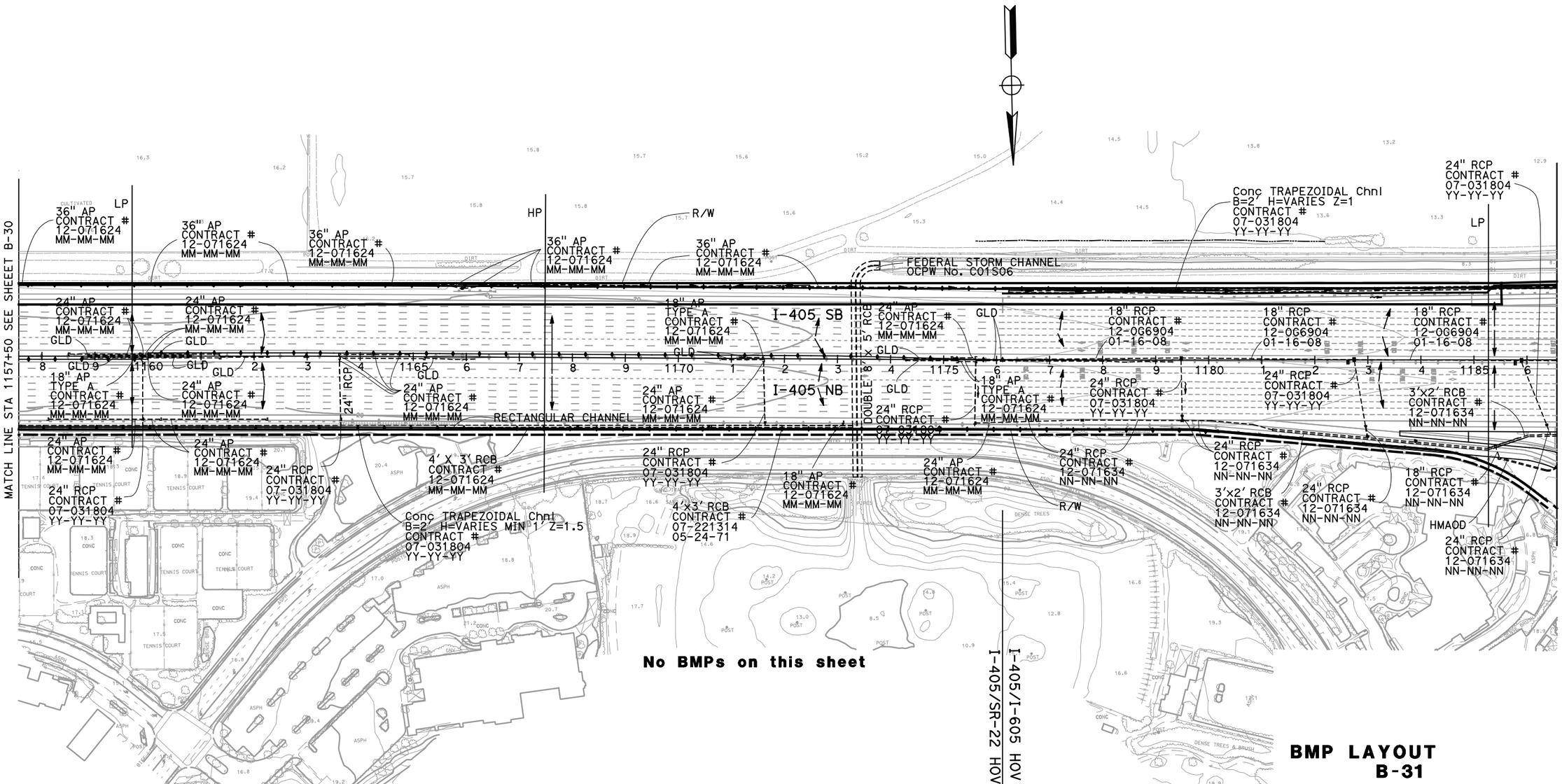

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BMP LAYOUT
B-31

SCALE 1"=100'

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