

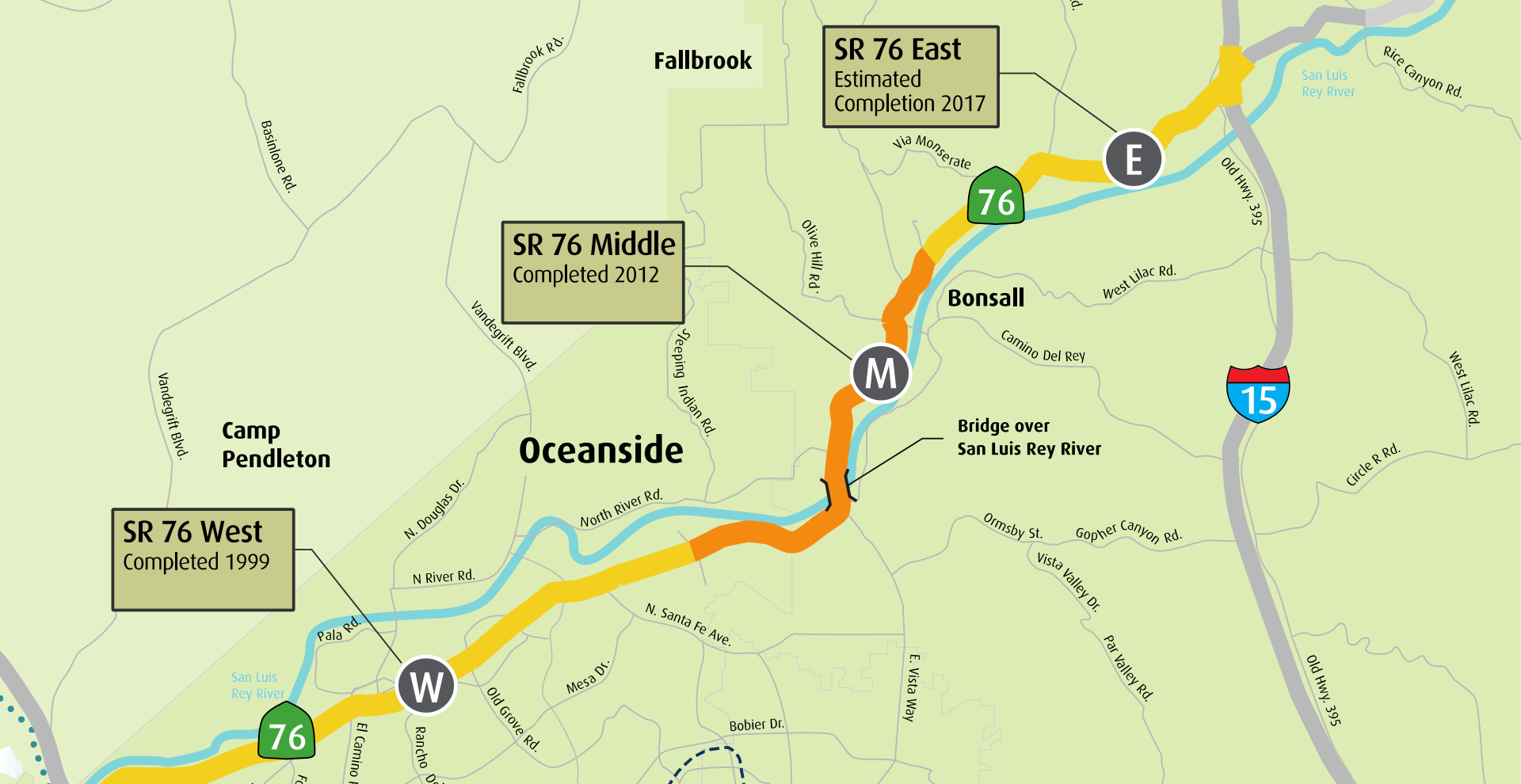


# **SR 76 East Segment Project Mission to I-15 Construction Update**

Bonsall Chamber of Commerce

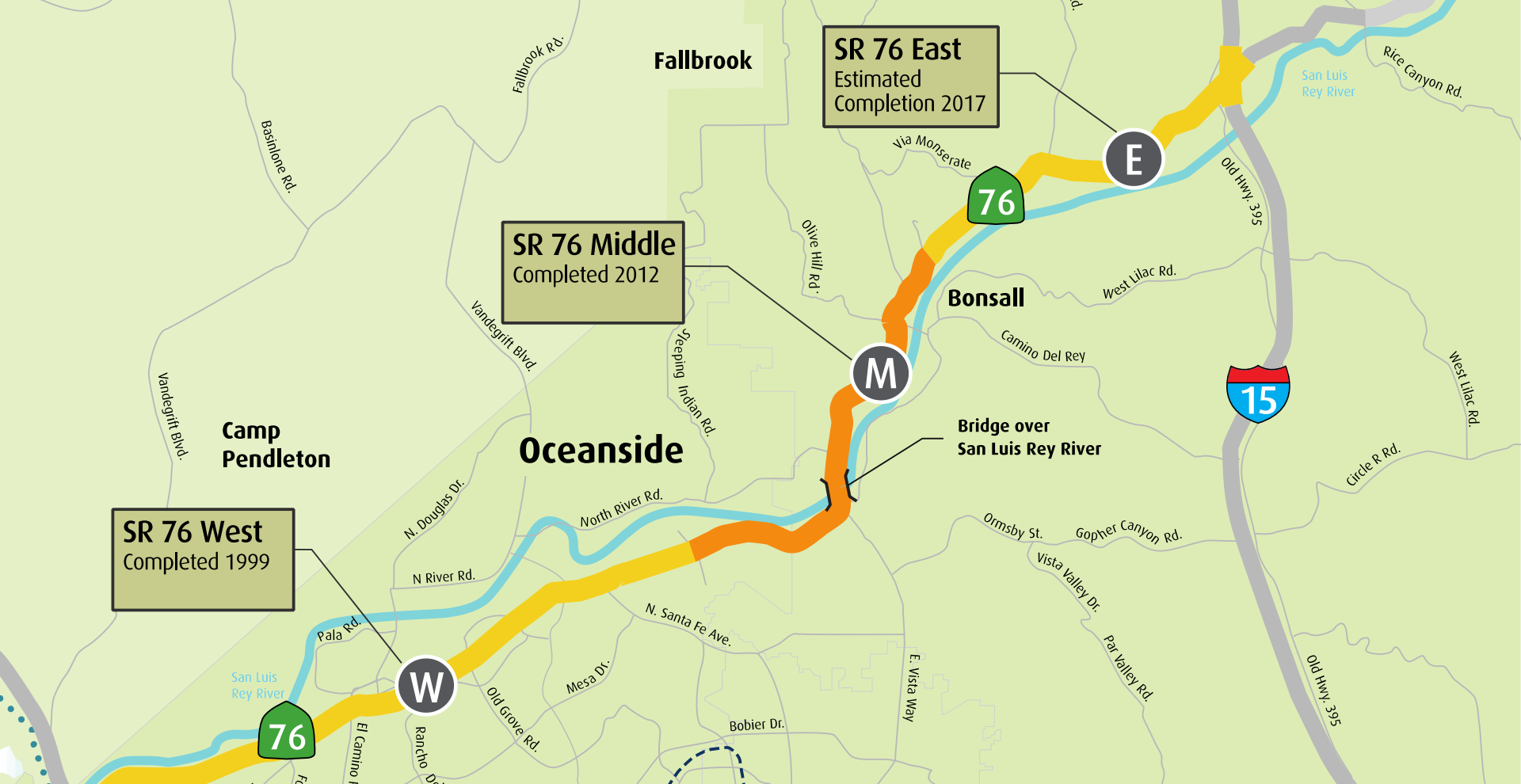
3/3/15

Karen Jewel, Project Manager



## Overview

- Final segment of SR 76 corridor located between I-15 and I-5.



## Overview

- 5.2 miles from South Mission Road to I-15
- Widen existing 2 lanes to 4 lanes
- \$201 million project

# Construction Timeline

## Phase 1:

Improved interchange at SR 76 and I-15 – completed

## Phase 2:

Widen and realign SR 76 to a four-lane highway

- Started: November 1, 2014
- Estimated Completion: Fall 2017



## Roadway Improvements

- Add new traffic signals to enhance safety

# Roadway Improvements

- Reconstruct several driveways
- Install median barrier
- Remove stockpile of material left by interchange work
- Coordinate and give excess roads to County for maintenance
- Remove unused roads to make roadway efficient

# Challenges & Opportunities

- Work along the river
- Haul materials on bridge at mitigation site
- Coordinate with utility agencies
- Minimize & control water pollution from jobsite
- Relocate sewer
- Work site is on flood plain
- Coordinate traffic control, lane and driveway closures
- Coordinate with monitoring experts from archeology, paleontology, & Native American tribes

# Previous Work Completed

- Cleared brush
- Began relocation of overhead utilities





## **Control Erosion Along River**

- Remove palisades (steel columns and black netting)



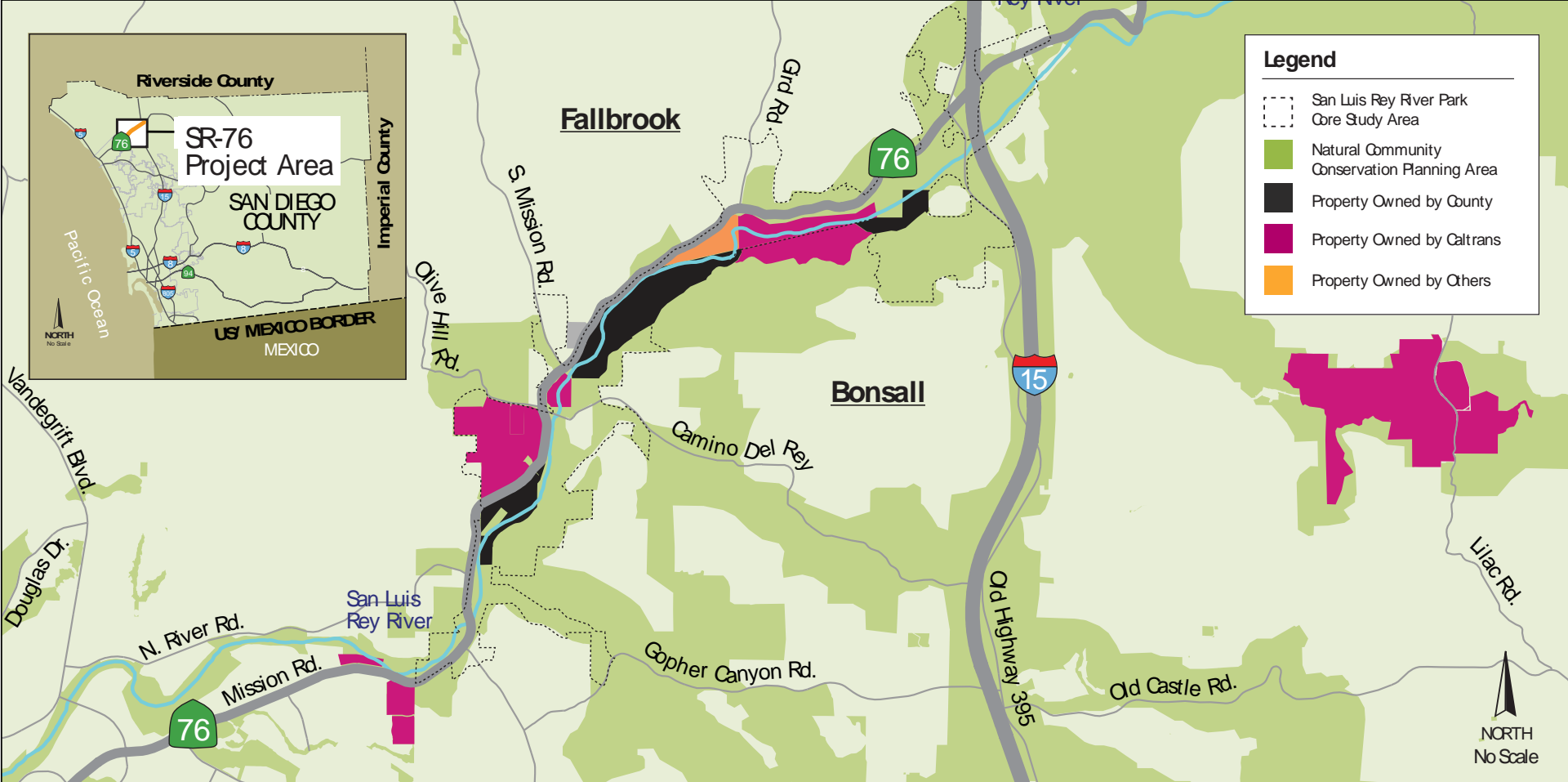


## **Control Erosion Along River**

- Install rock slope protection

# Control Erosion Along River

- Replace and improve drainage system
- Install bridge at Live Oak Creek
- Prepare and strengthen soil in order to construct underground culvert structures (tunnels) for the drainage system



## Environmental Components

- Purchased large parcels for SANDAG EMP program
- Started landscape work to reduce and control water pollution
- Installing and maintaining orange toad fencing
- Maintaining plants on interchange project





## **Environmental Components**

- Excavating and grading the Vessels and Tabata properties to restore sites to natural habitat and wetlands



## **Environmental Components**

- Installing 5 wildlife animal crossings





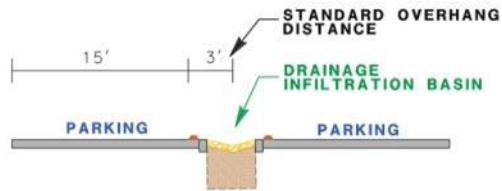
## Agency Coordination

- SDG&E: to relocate utilities
- San Diego County Water Authority: to improve pipelines

## LEGEND:

-  EXISTING CALTRANS RIGHT OF WAY
-  PROPOSED CURB
-  PROPOSED BUS SHELTER
-  PROPOSED ROADWAY AND SIDEWALKS
-  CLEAR RECOVERY ZONE
-  PROPOSED LANDSCAPED AREAS
-  PROPOSED COLORED PAVEMENT
-  PROPOSED BIORETENTION CELLS
-  NEW TRAFFIC SIGNAL
-  PROPOSED ADA PATH OF TRAVEL
-  PROPOSED BUS SHELTER

## TYPICAL SECTION A-A



## VEHICLE PARKING COUNT:

204	P.O.V. PARKING SPACES
10	A.D.A. PARKING SPACES
11	TRUCK PARKING SPACES



## Park & Ride Improvements

- Provides bus, bikes, car and truck parking
- Eliminates the right out onto SR 76
- Adds a new signal at Via Altamira



# Phase 2 - Stages 1 and 2

## Phase 2 – Stage 1:

Build eastbound lanes from Mission to Gird

## Phase 2 – Stage 2 (estimated for for Fall 2015):

Shift traffic over to new lanes

# Upcoming Stage 2 Work

## Phase 2 – Stage 2:

- Continue sewer improvements
- Create temporary access to local streets

# Keep up-to-date

- Sign –up for the newsletters in the sign up sheet.
- Visit [KeepSanDiegoMoving.com](http://KeepSanDiegoMoving.com)
  - Submit questions
  - Review latest news

# Keep up-to-date

- Facebook
  - CaltransDistrict11 | SANDAGregion
- Twitter
  - @SDCaltrans | @SANDAG
- You Tube
  - CaltransVideo | SANDAGregion



# Questions



**NOTE:**

1. STATION LIMITS ARE APPROXIMATE
2. CONSTRUCTION OF DRIVEWAYS AND TIE-INS MUST BE COMPLETED IN SEQUENCE AS SHOWN
3. CONSTRUCT ULTIMATE LANES TO 0.2' BELOW FINAL GRADE. FINAL HMA OVERLAY TO OCCUR IN LATER STAGE
4. EB ULTIMATE SHOULDER AND INTERIM PAVEMENT WILL MATCH CROSS FALL OF ULTIMATE EB TRAVELED WAY FROM STA 128+36 TO 197+00
5. SEE CONTOUR GRADING SHEETS FOR SETTLEMENT PERIOD LIMITS.

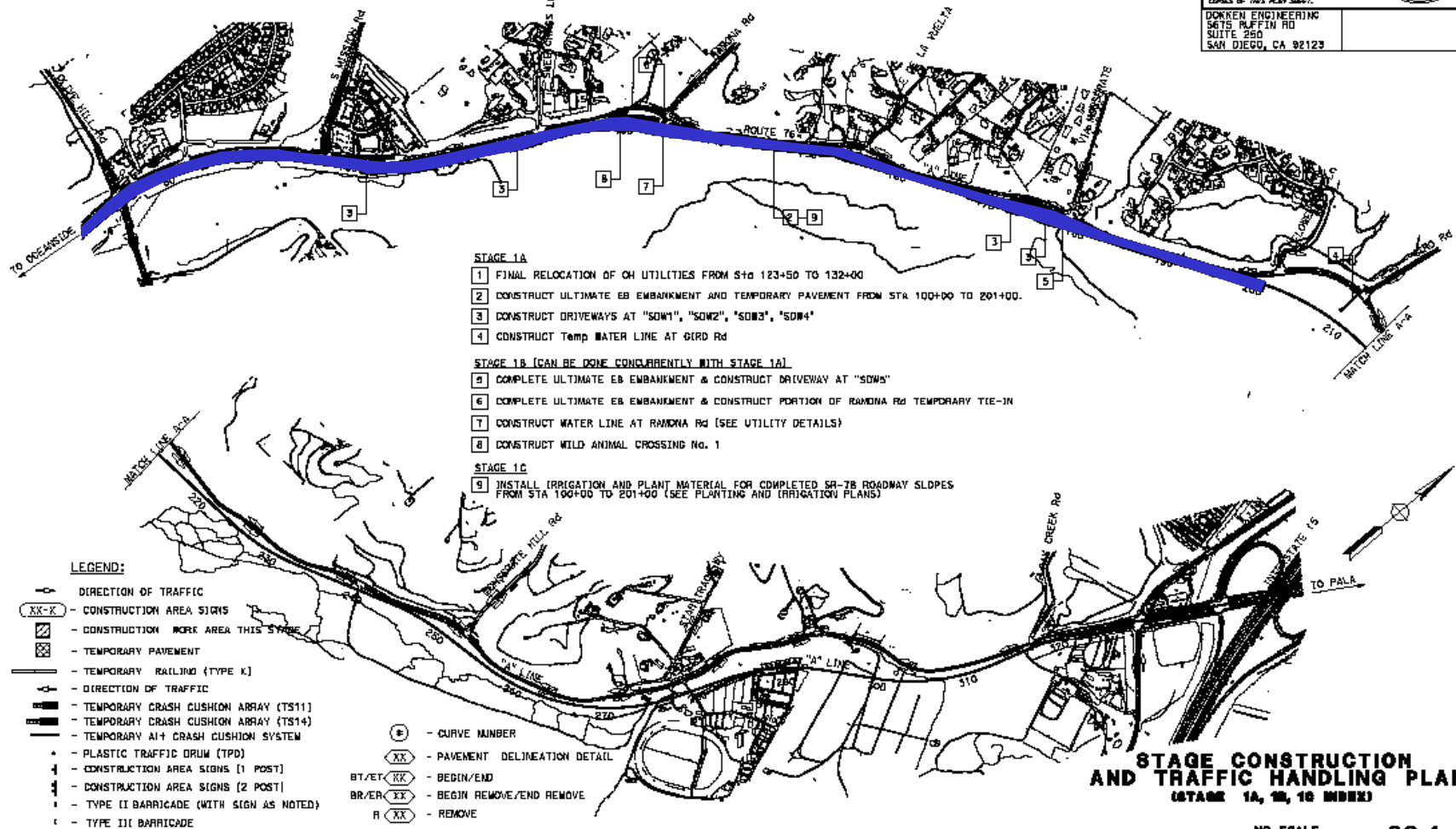
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	15,76	R45.2/R46.8 R12.1/R17.7		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_



PLANS APPROVAL DATE \_\_\_\_\_

DORRKEN ENGINEERING  
5675 RUFFIN RD  
SUITE 250  
SAN DIEGO, CA 92123



- STAGE 1A**
- 1 FINAL RELOCATION OF OH UTILITIES FROM STA 123+50 TO 132+00
  - 2 CONSTRUCT ULTIMATE EB EMBANKMENT AND TEMPORARY PAVEMENT FROM STA 100+00 TO 201+00.
  - 3 CONSTRUCT DRIVEWAYS AT "SDW1", "SDW2", "SDW3", "SDW4"
  - 4 CONSTRUCT Temp WATER LINE AT GIRD Rd
- STAGE 1B [CAN BE DONE CONCURRENTLY WITH STAGE 1A]**
- 5 COMPLETE ULTIMATE EB EMBANKMENT & CONSTRUCT DRIVEWAY AT "SDW5"
  - 6 COMPLETE ULTIMATE EB EMBANKMENT & CONSTRUCT PORTION OF RAMONA Rd TEMPORARY TIE-IN
  - 7 CONSTRUCT WATER LINE AT RAMONA Rd (SEE UTILITY DETAILS)
  - 8 CONSTRUCT WILD ANIMAL CROSSING No. 1
- STAGE 1C**
- 9 INSTALL IRRIGATION AND PLANT MATERIAL FOR COMPLETED SR-78 ROADWAY SLOPES FROM STA 100+00 TO 201+00 (SEE PLANTING AND IRRIGATION PLANS)

**LEGEND:**

- DIRECTION OF TRAFFIC
- XX-K - CONSTRUCTION AREA SIGNS
- [Hatched Box] - CONSTRUCTION WORK AREA THIS STAGE
- [Dashed Box] - TEMPORARY PAVEMENT
- - - TEMPORARY RAILING (TYPE K)
- DIRECTION OF TRAFFIC
- [Crash Cushion Symbol] - TEMPORARY CRASH CUSHION ARRAY (TS11)
- [Crash Cushion Symbol] - TEMPORARY CRASH CUSHION ARRAY (TS14)
- [Barrier Symbol] - TEMPORARY A+ CRASH CUSHION SYSTEM
- - PLASTIC TRAFFIC DRUM (TPD)
- 4 - CONSTRUCTION AREA SIGNS (1 POST)
- 4 - CONSTRUCTION AREA SIGNS (2 POST)
- 1 - TYPE II BARRICADE (WITH SIGN AS NOTED)
- 1 - TYPE III BARRICADE
- ⊙ - CURVE NUMBER
- XX - PAVEMENT DELINEATION DETAIL
- BT/ET/XX - BEGIN/END
- BR/ER/XX - BEGIN REMOVE/END REMOVE
- R/XX - REMOVE

**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
(STAGE 1A, 1B, 1C INDEX)

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING ONLY

NO SCALE **SC-1**

REVISIONS:  
 K REVISIONS BY: BRIAN BAQUERO, JOSH STONE, DATE REVISION:  
 H CALCULATED/DESIGNED BY: CHECKED BY:  
 G FUNCTIONAL SUPERVISOR: DEPARTMENT OF TRANSPORTATION  
 F STATE OF CALIFORNIA  
 E

BORDER LAST REVISED 7/8/2010

USER NAME -> J127761  
DWG FILE -> 110002048.dwg

RELATIVE BORDER SCALE: 1" = 30' IN DWG

UNIT 2785

PROJECT NUMBER & PHASE




1100020489

APPROVED DATE: 10/04/13 TIME PLOTTED: 11:48 AM  
 10-04-13

**NOTE:**

1. SEE SHEET NO. SC-1 FOR NOTES AND LEGEND
2. STATION LIMITS ARE APPROXIMATE
3. CONSTRUCTION OF DRIVEWAYS AND TIE-INS MUST BE COMPLETED IN SEQUENCE AS SHOWN
4. CONSTRUCT ULTIMATE LANES TO 0.5' BELOW FINAL GRADE  
FINAL PMA OVERLAY TO OCCUR IN LATER STAGE

**LEGEND:**

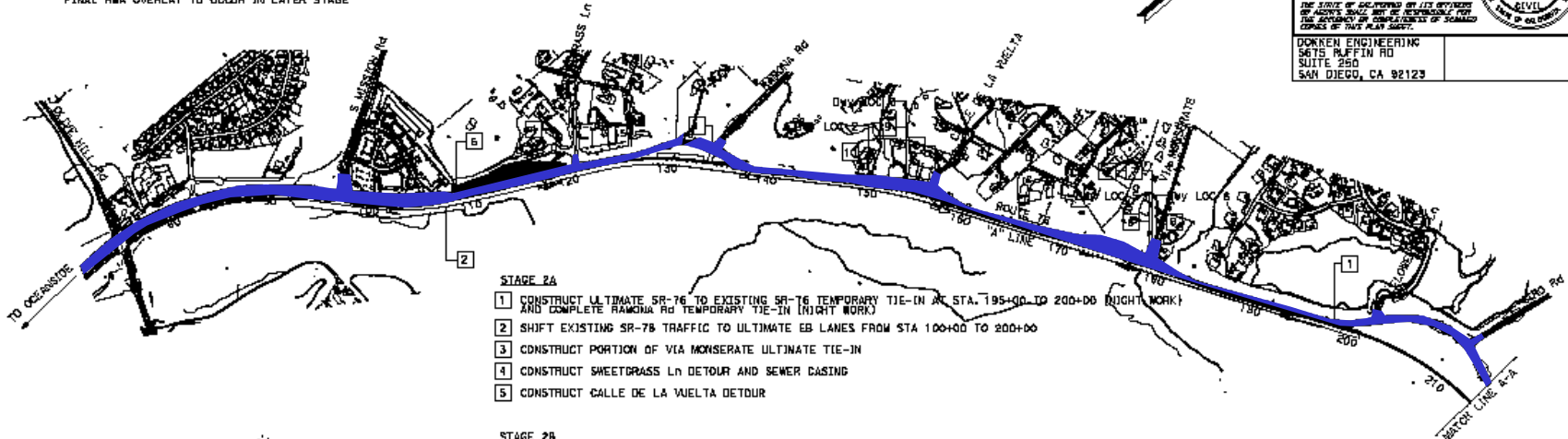
-  WORK ON THIS STAGE
-  NIGHT WORK THIS STAGE
-  DIRECTION OF TRAFFIC

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	15,76	R45.2/R46.8 R12.1/R17.7		

REGISTERED CIVIL ENGINEER DATE: \_\_\_\_\_  
 PLANS APPROVAL DATE: \_\_\_\_\_

THE STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CIVIL ENGINEER  
 JOSH STONE  
 No. 60755  
 DATE OF EXPIRATION: \_\_\_\_\_

DORREN ENGINEERING  
 5675 RUFFIN RD  
 SUITE 250  
 SAN DIEGO, CA 92123

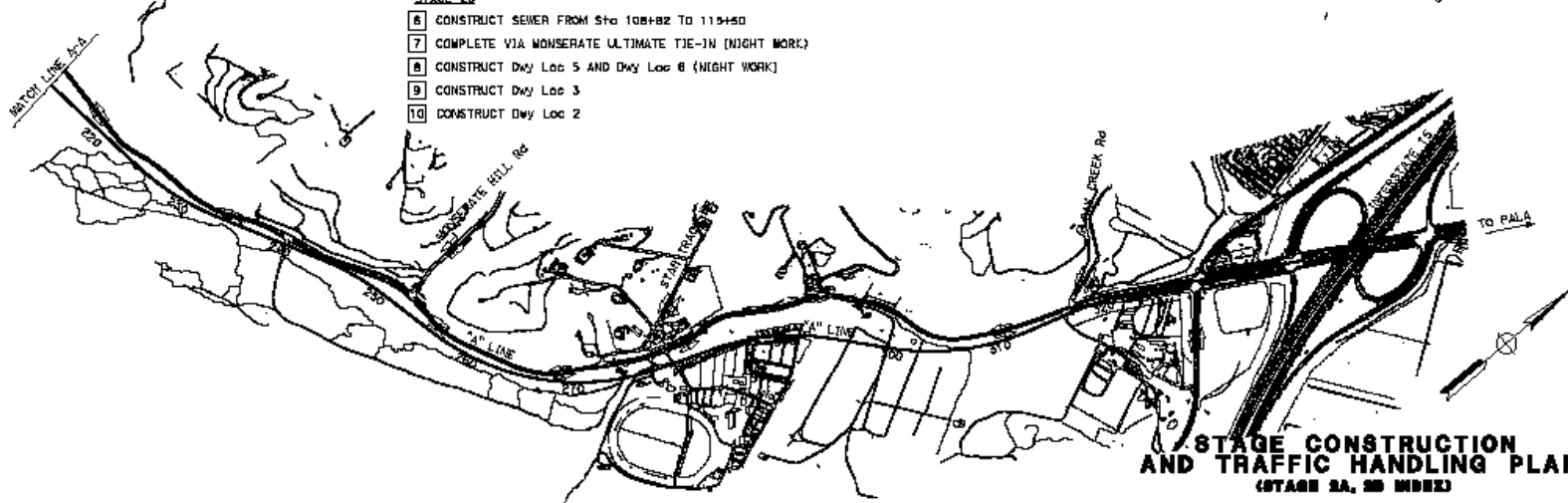


**STAGE 2A**

1. CONSTRUCT ULTIMATE SR-76 TO EXISTING SR-76 TEMPORARY TIE-IN AT STA. 195+00 TO 200+00 (NIGHT WORK) AND COMPLETE RAMONA Rd TEMPORARY TIE-IN (NIGHT WORK)
2. SHIFT EXISTING SR-76 TRAFFIC TO ULTIMATE EB LANES FROM STA 100+00 TO 200+00
3. CONSTRUCT PORTION OF VIA MONSERATE ULTIMATE TIE-IN
4. CONSTRUCT SWEETGRASS Ln DETOUR AND SEWER CASING
5. CONSTRUCT CALLE DE LA VUELTA DETOUR

**STAGE 2B**

6. CONSTRUCT SEWER FROM STA 100+82 TO 119+50
7. COMPLETE VIA MONSERATE ULTIMATE TIE-IN (NIGHT WORK)
8. CONSTRUCT Dwy Loc 5 AND Dwy Loc 6 (NIGHT WORK)
9. CONSTRUCT Dwy Loc 3
10. CONSTRUCT Dwy Loc 2



**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN (STAGE 2A, 2B ONLY)**

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING ONLY

NO SCALE **SC-2**

REVISIONS: DATE R.0105 → 04-08-2013  
 10-04-13 TIME R.0105 → 11-04-13




STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 FUNCTIONAL SUPERVISOR  
 CALICATED/DESIGNED BY  
 CHECKED BY  
 BRIAN BAZQUELO  
 JOSH STONE  
 REVISED BY  
 DATE REVISED



**NOTE:**

1. SEE SHEET NO. SC-1 FOR NOTES AND LEGEND
2. STATION LIMITS ARE APPROXIMATE
3. CONSTRUCTION OF DRIVEWAYS AND TIE-INS MUST BE COMPLETED IN SEQUENCE AS SHOWN
4. CONSTRUCT ULTIMATE LANES TO 0.2' BELOW FINAL GRADE  
FINAL PMA OVERLAY TO OCCUR IN LATER STAGE

**LEGEND:**

-  WORK ON THIS STAGE
-  NIGHT WORK THIS STAGE
-  DIRECTION OF TRAFFIC

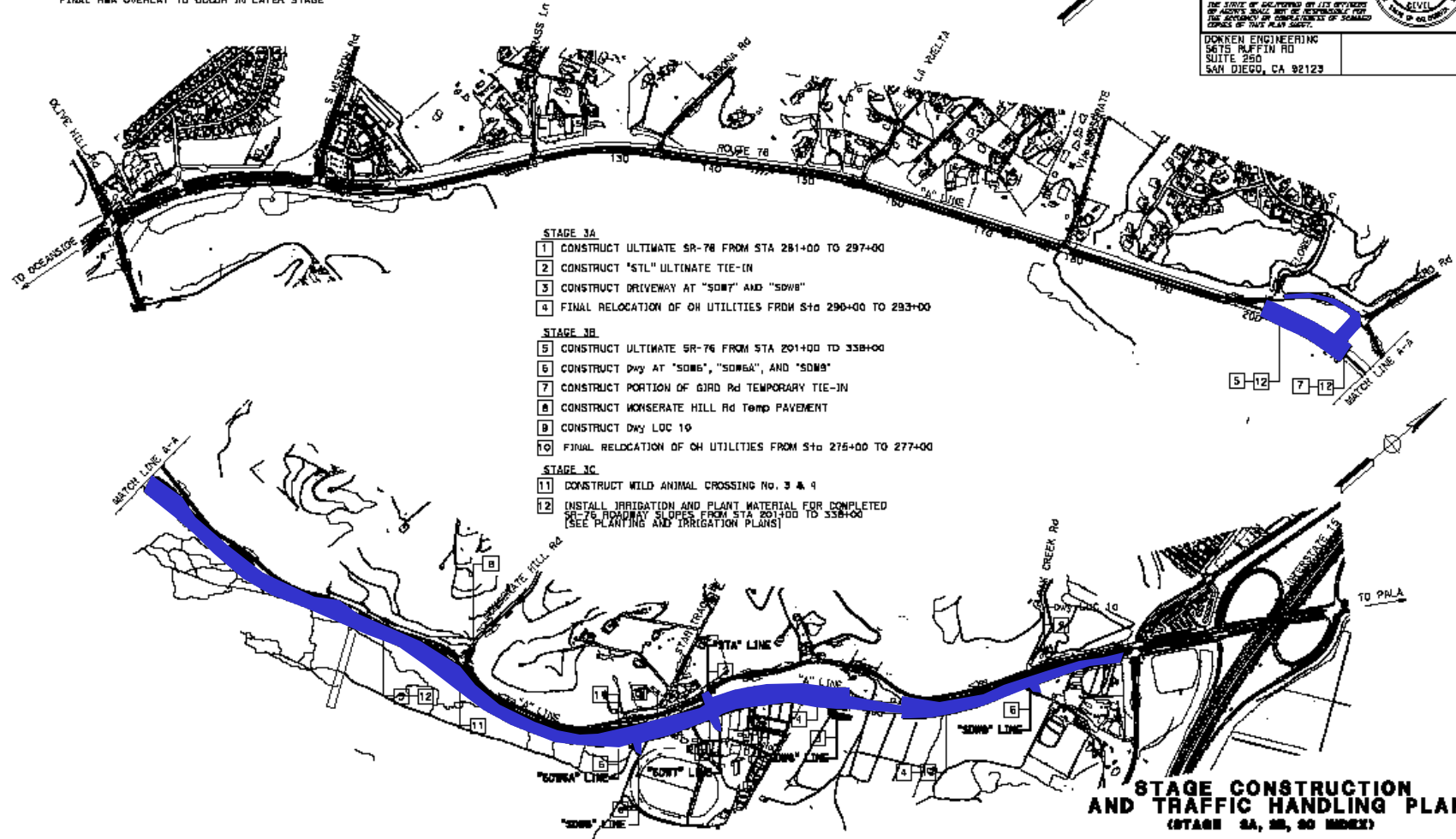
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	15,76	R45.2/R46.8 R12.1/R17.7		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA  
 DIVISION OF HIGHWAYS  
 SAN DIEGO DISTRICT OFFICE  
 1000 G STREET, SUITE 200  
 SAN DIEGO, CALIFORNIA 92101

**JOSH STONE**  
 No. 60755  
 CIVIL ENGINEER

DORREN ENGINEERING  
 5675 PUFFIN RD  
 SUITE 250  
 SAN DIEGO, CA 92123



- STAGE 3A**
1. CONSTRUCT ULTIMATE SR-76 FROM STA 281+00 TO 297+00
  2. CONSTRUCT "STL" ULTIMATE TIE-IN
  3. CONSTRUCT DRIVEWAY AT "SDM7" AND "SDM8"
  4. FINAL RELOCATION OF OH UTILITIES FROM STA 290+00 TO 293+00
- STAGE 3B**
5. CONSTRUCT ULTIMATE SR-76 FROM STA 201+00 TO 338+00
  6. CONSTRUCT Dwy AT "SDM6", "SDM6A", AND "SDM9"
  7. CONSTRUCT PORTION OF GIRD Rd TEMPORARY TIE-IN
  8. CONSTRUCT WORSERATE HILL Rd Temp PAVEMENT
  9. CONSTRUCT Dwy LOC 19
  10. FINAL RELOCATION OF OH UTILITIES FROM STA 275+00 TO 277+00
- STAGE 3C**
11. CONSTRUCT WILD ANIMAL CROSSING NO. 3 & 4
  12. INSTALL IRRIGATION AND PLANT MATERIAL FOR COMPLETED SR-76 ROADWAY SLOPES FROM STA 201+00 TO 338+00 (SEE PLANTING AND IRRIGATION PLANS)

**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
 (STAGE 3A, 3B, 3C INDEX)

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING ONLY

NO SCALE **SC-5**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Functional Supervisor  
 BRIAN BAZQUELO  
 REVISIONS: REVISION BY DATE REVISION BY DATE REVISION BY DATE REVISION BY DATE

APPROVED DATE R-0102 -> 04-08-2010  
 10-04-13 TIME PLUTED -> 11:48

**NOTE:**

1. SEE SHEET No. SC-1 FOR NOTES AND LEGEND
2. STATION LIMITS ARE APPROXIMATE
3. CONSTRUCTION OF DRIVEWAYS AND TIE-INS MUST BE COMPLETED IN SEQUENCE AS SHOWN
4. CONSTRUCT ULTIMATE LANES TO 0.2' BELOW FINAL GRADE FROM STA 213+00 TO 323+00. FINAL HMA OVERLAY TO OCCUR IN LATER STAGE

**LEGEND:**

-  WORK ON THIS STAGE
-  DIRECTION OF TRAFFIC

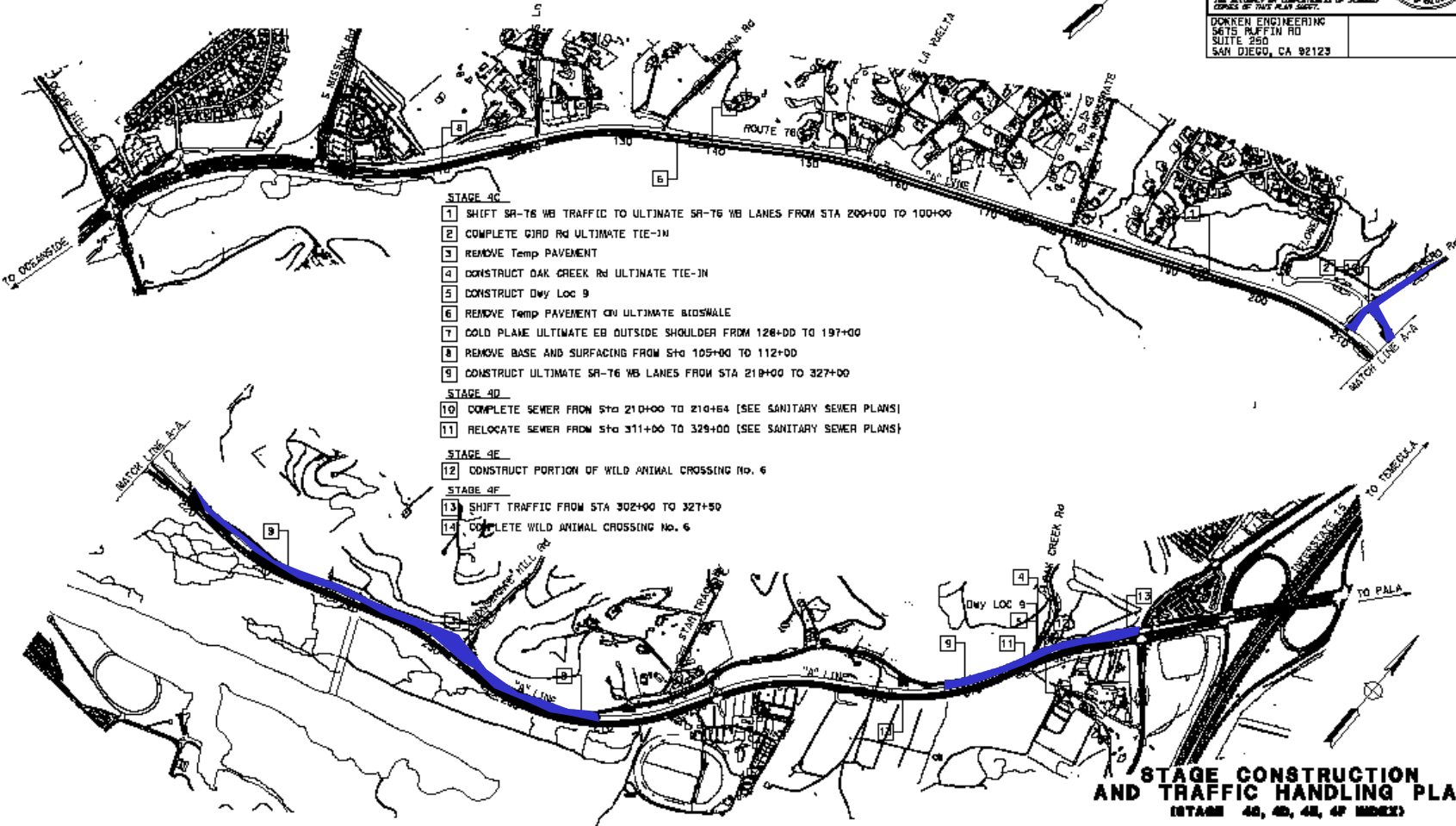
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	15,76	R45.2/R46.8 R12.1/R17.7		

REGISTERED CIVIL ENGINEER DATE: \_\_\_\_\_  
 PLANS APPROVAL DATE: \_\_\_\_\_

THE STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**JOSH STONE**  
 CIVIL ENGINEER  
 No. 60755

DORRKEN ENGINEERING  
 5675 PUFFIN RD  
 SUITE 250  
 SAN DIEGO, CA 92123



- STAGE 4C**
1. SHIFT SR-76 WB TRAFFIC TO ULTIMATE SR-76 WB LANES FROM STA 200+00 TO 100+00
  2. COMPLETE CIRD RD ULTIMATE TIE-IN
  3. REMOVE Temp PAVEMENT
  4. CONSTRUCT OAK CREEK Rd ULTIMATE TIE-IN
  5. CONSTRUCT Dwy Loc 9
  6. REMOVE Temp PAVEMENT ON ULTIMATE BODSWALE
  7. COLD PLANE ULTIMATE EB OUTSIDE SHOULDER FROM 126+00 TO 197+00
  8. REMOVE BASE AND SURFACING FROM Sta 105+00 TO 112+00
  9. CONSTRUCT ULTIMATE SR-76 WB LANES FROM STA 210+00 TO 327+00
- STAGE 4D**
10. COMPLETE SEWER FROM Sta 210+00 TO 210+64 (SEE SANITARY SEWER PLANS)
  11. RELOCATE SEWER FROM Sta 311+00 TO 329+00 (SEE SANITARY SEWER PLANS)
- STAGE 4E**
12. CONSTRUCT PORTION OF WILD ANIMAL CROSSING No. 6
- STAGE 4F**
13. SHIFT TRAFFIC FROM STA 302+00 TO 327+50
  14. COMPLETE WILD ANIMAL CROSSING No. 6

**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
 (STAGE 4C, 4D, 4E, 4F INDEX)

NO SCALE **SC-7**

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 BRIAN BAZQUELO  
 JOSH STONE  
 REVISIONS: DATE REVISED BY

USERNAME -> b127761  
 DWF FILE -> 1100020487.dwg

RELATIVE BORDER SCALE  
 1" = 30' DIMEN

UNIT 2785

PROJECT NUMBER & PHASE



1100020489

DATE PLOTTED -> 09-08-2010  
 TIME PLOTTED -> 11:48  
 10-04-13

**NOTE:**

- 1. SEE SHEET NO. SC-1 FOR NOTES AND LEGEND
- 2. STATION LIMITS ARE APPROXIMATE

**LEGEND:**

-  WORK ON THIS STAGE
-  DIRECTION OF TRAFFIC

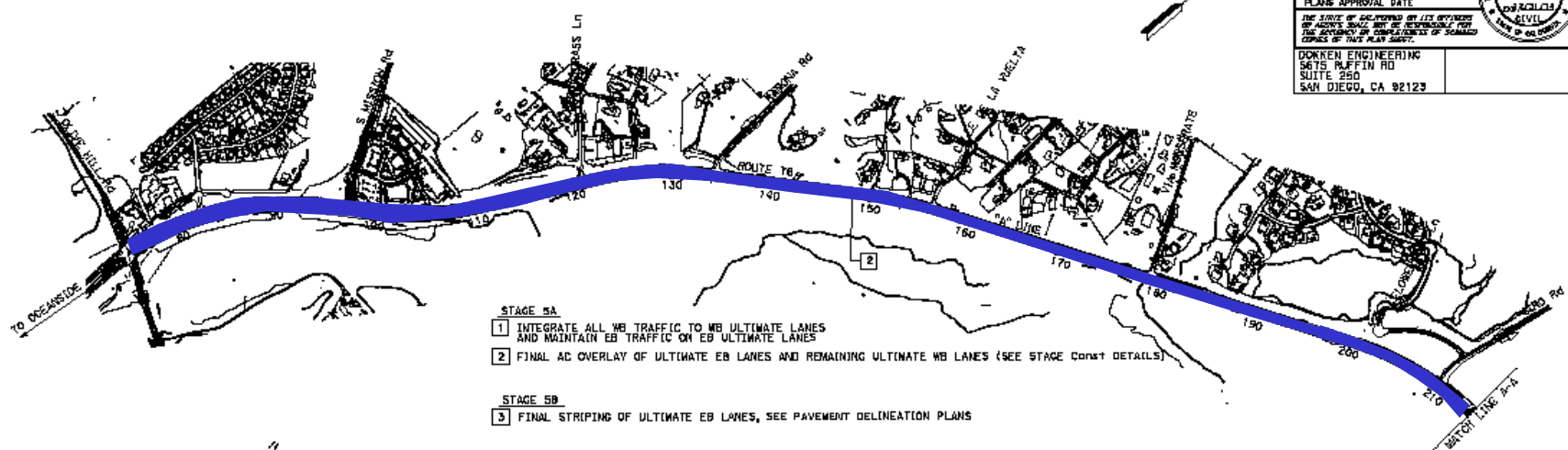
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	15,76	R45.2/R46.8 R12.1/R17.7		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA BY ITS OFFICERS OF HIGHWAYS AND THE CONTRACTOR FOR THE PURPOSE OF COMPLETION OF STAGGED CONSTRUCTION OF THIS PLAN SHEET.

**JOSH STONE**  
 No. 60755  
 CIVIL ENGINEER  
 State of California

DORREN ENGINEERING  
 5675 PLUFFIN RD  
 SUITE 250  
 SAN DIEGO, CA 92123

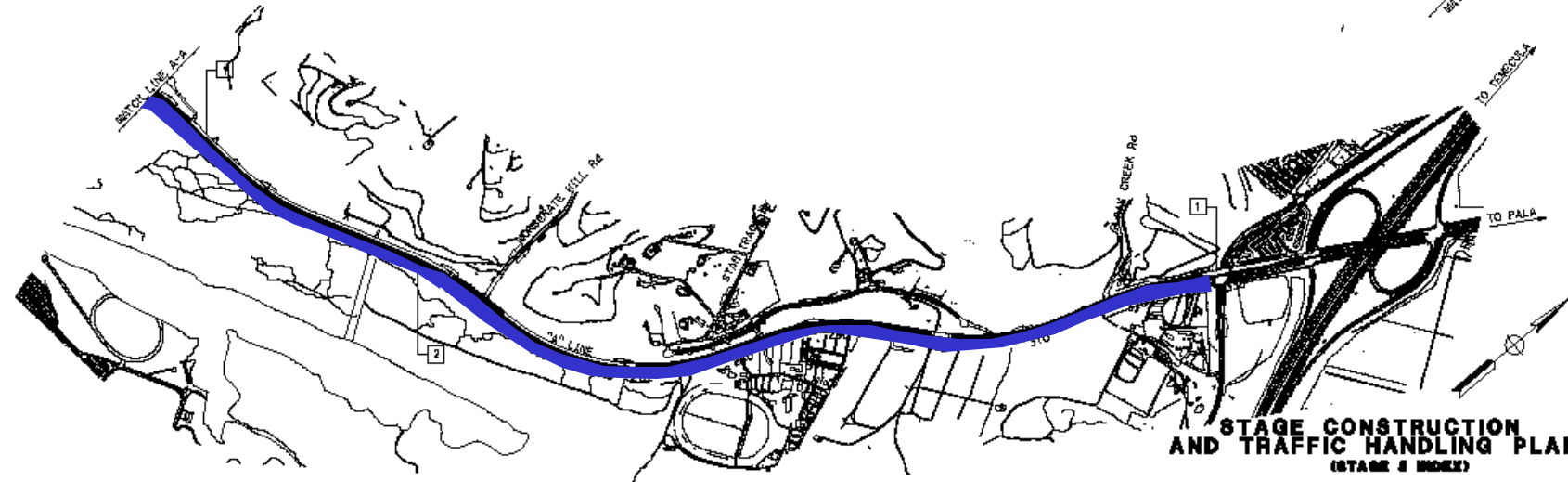


**STAGE 5A**

- 1 INTEGRATE ALL WB TRAFFIC TO NB ULTIMATE LANES AND MAINTAIN EB TRAFFIC ON EB ULTIMATE LANES
- 2 FINAL AC OVERLAY OF ULTIMATE EB LANES AND REMAINING ULTIMATE WB LANES (SEE STAGE CONST DETAILS)

**STAGE 5B**

- 3 FINAL STRIPING OF ULTIMATE EB LANES, SEE PAVEMENT DELINEATION PLANS



**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN (STAGE 5 INDEX)**

NO SCALE

**SC-8**

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 CALIFORNIA HIGHWAYS

FUNCTIONAL SUPERVISOR \_\_\_\_\_

DESIGNED BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

REVISIONS BY \_\_\_\_\_

DATE REVISION \_\_\_\_\_

BORDER LAST REVISED 7/8/2010

USERNAME -> j1827761  
 DGN FILE -> 1100020487sc08.dgn

RELATIVE BORDER SCALE  
 1/8" = 100'

UNIT 2785

PROJECT NUMBER & PHASE

1100020489

DATE PLOTTED -> 04-08-2013  
 10-04-13 10:41:13 AM



SD-76, PM 12.1/17.8  
14140205-031 10/27/14  
CONST. UPDATE





SD-76, PM 12.1/17.8  
14140205-038 10/27/14  
CONST. UPDATE





SD-76, PM 12.1/17.8  
14140207-055 12/31/14  
CONST. UPDATE









An aerial photograph showing a complex road interchange with multiple lanes and overpasses. The surrounding landscape includes a large commercial building complex at the top, a residential neighborhood with houses and swimming pools at the bottom, and various green and brown fields. The text is overlaid in the center of the image.

SD-76, PM 12.1/17.8  
14140207-059 12/31/14  
CONST. UPDATE



SD-76, PM 12.1/17.8  
14140207-009 12/31/14  
CONST. UPDATE

