

## 2016 Winter Storm Events MONTEREY COUNTY RMA



# ACKNOWLEDGEMENTS

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## **BOARD OF SUPERVISORS COUNTY OF MONTEREY**

|                         |                                      |                                |
|-------------------------|--------------------------------------|--------------------------------|
| <b>FERNANDO ARMENTA</b> |                                      | <b>1<sup>ST</sup> DISTRICT</b> |
| <b>JOHN PHILLIPS</b>    |                                      | <b>2<sup>ND</sup> DISTRICT</b> |
| <b>SIMÓN SALINAS</b>    |                                      | <b>3<sup>RD</sup> DISTRICT</b> |
| <b>JANE PARKER</b>      | <b>(CHAIR)</b>                       | <b>4<sup>TH</sup> DISTRICT</b> |
| <b>DAVE POTTER</b>      | <b>(VICE CHAIR)</b>                  | <b>5<sup>TH</sup> DISTRICT</b> |
| <b>LEW C. BAUMAN</b>    | <b>COUNTY ADMINISTRATIVE OFFICER</b> |                                |

### **RESOURCE MANAGEMENT AGENCY (RMA)**

|                           |  |
|---------------------------|--|
| <b>CARL P. HOLM, AICP</b> | <b>Resource Management Agency Director</b>               |
| <b>JOHN P. GUERTIN</b>    | <b>Acting Resource Management Agency Deputy Director</b> |
| <b>SHAWNE ELLERBEE</b>    | <b>Finance Manager III</b>                               |

### **PREPARED BY**

|                         |  |
|-------------------------|--|
| <b>BILAL A. ISSA</b>    | <b>Project Manager/Resident Engineer</b> |
| <b>OGARITA CARRANZA</b> | <b>Management Analyst II</b>             |
| <b>LUIS NEGRETE</b>     | <b>Secretarial Assistant</b>             |
| <b>JACKIE ESTRADA</b>   | <b>GIS Analyst</b>                       |

### **PUBLIC WORKS – EMERGENCY DOC**

|                               |                               |
|-------------------------------|-------------------------------|
| <b>BENNY YOUNG</b>            | <b>DOC Management</b>         |
| <b>HOP ESSICK</b>             | <b>DOC Management</b>         |
| <b>SHAWN ATKINS</b>           | <b>DOC Management</b>         |
| <b>ENRIQUE SAAVEDRA, P.E.</b> | <b>Damage Assessment Team</b> |
| <b>BILAL A. ISSA</b>          | <b>Damage Assessment Team</b> |
| <b>JOSE GOMEZ</b>             | <b>Damage Assessment Team</b> |
| <b>JUAN MESA</b>              | <b>Damage Assessment Team</b> |
| <b>BRENDA VILLANUEVA</b>      | <b>Storm Patrol Team</b>      |
| <b>OSCAR CERVANTES</b>        | <b>Storm Patrol Team</b>      |
| <b>ROBERT PALOMINO</b>        | <b>Storm Patrol Team</b>      |
| <b>ALBERTO MEJIA-CEJA</b>     | <b>Storm Patrol Team</b>      |
| <b>JESSE LUIS</b>             | <b>Storm Patrol Team</b>      |
| <b>DAVE PRATT</b>             | <b>Storm Patrol Team</b>      |
| <b>JACKIE ESTRADA</b>         | <b>GIS Analyst</b>            |
| <b>VERONICA SERRANO</b>       | <b>Call Center</b>            |
| <b>RANNIE TORIBIO</b>         | <b>Call Center</b>            |
| <b>LUIS NEGRETE</b>           | <b>Call Center</b>            |
| <b>ROBERT TORRES</b>          | <b>Logistics</b>              |
| <b>CRYSTAL BARRIENTEZ</b>     | <b>Logistics</b>              |
| <b>ANNA SOBERANES</b>         | <b>Logistics</b>              |

|                  |                   |                                       |
|------------------|-------------------|---------------------------------------|
| ROAD DISTRICT 1: | WILLIAM VERMILYER | Road Maintenance Superintendent       |
|                  | DANIEL TORRES     | Maintenance Yard Clerk                |
|                  | THOMAS NESBITT    | Asst. Road Maintenance Superintendent |
|                  | MANUEL SANCHEZ    | Senior Road Maintenance Worker        |
|                  | SCOTT MOSER       | Road Maintenance Worker               |
|                  | ARTURO TOVAR      | Road Maintenance Worker               |
|                  | JIM PETERSEN      | Road Maintenance Worker               |
|                  | JOHN MARQUETTE    | Road Maintenance Worker               |
|                  | MICHAEL SCARDINA  | Road Maintenance Worker               |

|                  |                 |                                       |
|------------------|-----------------|---------------------------------------|
| ROAD DISTRICT 2: | ARTHUR GUDEA    | Road Maintenance Superintendent       |
|                  | ANNA SOBERANES  | Maintenance Yard Clerk                |
|                  | JAMES MACHADO   | Asst. Road Maintenance Superintendent |
|                  | STEVE SAGRERO   | Senior Road Maintenance Worker        |
|                  | PHIL AGUINAGA   | Senior Road Maintenance Worker        |
|                  | MARK THOMPSON   | Road Maintenance Worker               |
|                  | ULISES CALVILLO | Road Maintenance Worker               |
|                  | ERIC JIMENEZ    | Road Maintenance Worker               |
|                  | BENITO CHUCA    | Road Maintenance Worker               |
|                  | AARON MOORE     | Road Maintenance Worker               |

|                  |                  |                                 |
|------------------|------------------|---------------------------------|
| ROAD DISTRICT 3: | CARL DONLEY      | Road Maintenance Superintendent |
|                  | MELANIE SWAIN    | Maintenance Yard Clerk          |
|                  | BRENNO BEFFA     | Senior Road Maintenance Worker  |
|                  | JOHN LECHEMINANT | Senior Road Maintenance Worker  |
|                  | CARLOS PARTIDA   | Road Maintenance Worker         |
|                  | ANTHONY ANDRADE  | Road Maintenance Worker         |
|                  | JORGE GOMEZ      | Road Maintenance Worker         |

|                  |                 |                                       |
|------------------|-----------------|---------------------------------------|
| ROAD DISTRICT 4: | DAVID GILLIS    | Road Maintenance Superintendent       |
|                  | KATHRYN ROSSI   | Maintenance Yard Clerk                |
|                  | CHRIS JOHNSON   | Asst. Road Maintenance Superintendent |
|                  | TRENT STEVENS   | Senior Road Maintenance Worker        |
|                  | JOSE MAGALLON   | Senior Road Maintenance Worker        |
|                  | DEVO GURLEY     | Road Maintenance Worker               |
|                  | ROBERT LOPEZ    | Road Maintenance Worker               |
|                  | ROGELIO RAMIREZ | Road Maintenance Worker               |
|                  | ANTONE MELLOW   | Road Maintenance Worker               |

|                      |               |                                    |
|----------------------|---------------|------------------------------------|
| TRAFFIC MAINTENANCE: | ROBERT TORRES | Traffic Maintenance Superintendent |
|                      | SEFARIN MORIN | Traffic Maintenance Worker         |
|                      | IVAN CURIEL   | Traffic Maintenance Worker         |
|                      | GREG VALDEZ   | Traffic Maintenance Worker         |



|              |                    |   |
|--------------|--------------------|---|
| BRIDGE CREW: | RAMON MARTINEZ     | Bridge Maintenance Superintendent       |
|              | CRYSTAL BARRIENTEZ | Maintenance Yard Clerk                  |
|              | BILLY TAYLOR       | Asst. Bridge Maintenance Superintendent |
|              | JESUS MERCARDO     | Bridge Maintenance Worker               |
|              | STEVE PUGH         | Bridge Maintenance Worker               |
|              | EDDIE BARRAGON     | Bridge Maintenance Worker               |
|              | JOHNNY MAGDALENO   | Bridge Maintenance Worker               |
|              | RAUL CARBAJAL      | Bridge Maintenance Worker               |

|              |                |              |
|--------------|----------------|--------------|
| LITTER CREW: | MANUEL ROBLEDO | Litter Guard |
|              | MIKE GONZALEZ  | Litter Guard |
|              | JUSTIN LIGHT   | Litter Guard |

|            |                |              |
|------------|----------------|--------------|
| TREE CREW: | GABINO VALLE   | Tree Trimmer |
|            | HECTOR MENDOZA | Tree Trimmer |
|            | BLAS CHAVARRIA | Tree Trimmer |

|                  |                   |                   |
|------------------|-------------------|-------------------|
| SANITATION CREW: | JESUS COVARRUBIAS | Sanitation Worker |
|------------------|-------------------|-------------------|

# NARRATIVE

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## **Introduction**

Resource Management Agency (RMA) Public Works Maintenance Section prepares the Monterey County Annual Road Maintenance Plan (Maintenance Plan). The Maintenance Plan provides a detailed description of the major maintenance activities to be performed on the County's transportation system and the funding expended in the fiscal year. The Maintenance Plan only captures thirteen (13) activities out of a total of twenty-six (26) due to shortage in personnel and budget constraints. Unfortunately storm events are not part of the Maintenance Plan since they cannot be predicted making it difficult to estimate the amount of damage and costs involved. Additionally, a comparison from previous years cannot be made since this will be the RMA's first year of collecting emergency storm damage data.

Monterey County was hit with several significant storm events this year due to El Niño winter storms. The first one took place on January 19, 2016, the second from March 5 and 6, 2016, and the third on March 11, 2016. These storms caused direct damages to our roadway in all four Supervisorial Districts. Over 300 calls came in to our Department of Operation Command (DOC) center. The calls varied from flooding, erosion, slope failure, sink holes, road damage, road closure, culvert cleaning, ditch cleaning, silt and debris removal, fallen trees and other challenges that our maintenance crew encounters during a storm. RMA Maintenance crew responded to approximately 200 road locations.

The first priority of work performed during and after the storms was to make it safe for motorists. There are few locations that require an immediate permanent fix due to the safety level of concern not to mention that it will require a lot of maintenance from our crews during a minor storm event. These locations need immediate attention and will be fixed permanently using the Job Order Contracting (JOC) program (See Attachment 1).

Unlike the Request for Services (RFS), which is part of the Maintenance Plan, storm damage needs to be a part of the Maintenance Plan in order for the maintenance section to plan versus reacting in the fiscal years ahead.

The March 2016 Storm Events caused damages in all Supervisorial Districts: with major damages to Supervisorial District 2 and Supervisorial District 5. As previously mentioned, on March 5, 6, 11, 2016 the RMA DOC received over 300 calls related to storm damages on County roads. All phone calls were distributed to our Supervisorial District Maintenance Superintendents. The Daylight and Nighttime Storm Patrol Teams and the Project Assessment Team were activated driving County roads during the storm events reporting to the DOC on road condition status and determining any road closures due to floods, debris, silt, trees, etc.

## **Recommendations**

The following are recommendations to consider in the use of the data presented in this report:

- Prioritize and develop planning efforts, policies, and programs related to storm damage.
- Design/engineering changes to ensure safety.
- Utilize data as a tool in pursuing funding opportunities.

## **Conclusion**

This Report provides a baseline to measure the damages and costs involved in emergency storm events when compared to regular maintenance activities performed on the County's transportation system through the Maintenance Plan. The data collected will assist the County in being able to take a proactive role in preparing for future storm events by asking for an annual augmentation to the maintenance budget. Additionally, the data collected will be a useful tool to improve infrastructure and project future demands.

The storm events have warranted dangerous conditions to the health and safety of people and property, therefore necessitating a permanent fix to the damages. RMA estimates that damages for the 2016 Winter Storm Events are approximately \$7,318,000 for a permanent fix, (See Attachment 2). This amount is subject to change as additional assessments are performed and damages are identified.

The County would need State and Federal assistance in order to cover the amount needed to permanently fix the damages caused by these storm events. This would be done by declaring a state of emergency for the County of Monterey.

# DEPARTMENT OPERATION CENTER

## MARCH 5, 2016 CALLS

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#### ROAD CLOSED

**HARTNELL RD.** - Hwy.101 to Alisal Rd. **FLOODING @ 04:15:00**  
**MURPHY RD** - Hwy. 129 and San Juan Rd. - **FLOODING @ 13:33:00**  
**CASTROVILLE BLVD.** @ Elkhorn Rd. - 20:42:00 - **TREE BLOCKING**  
**VALENZUELA RD.** @ Aguajito Rd. - 20:44:00 - **TREE BLOCKING**  
**GARIN ROAD** - Lewis and Elkhorn Rd. -@ 22:03:00 - **ROAD CLOSED - TREE BLOCKING**  
**BLACKIE ROAD** - M.P 2.5-M.P.3.2 @ 23:38:00 - **ROAD CLOSED - FLOODED**  
**HARRISON ROAD** - Russell & Sala Rd. 23:24:00 - **ROAD CLOED - FLOODED**

#### ROADS REOPENED

**CACHAGUA RD.** @ M.P. 1.0 - **TREE BLOCKING ROAD @ 8:35:00 ROAD OPEN @ 09:14:00**  
**MIDDLEFIELD RD.** - Sturling Ave. to Lagunita Rd. - **TREE BLOCKING ROAD @ 05:12:00 ROAD OPEN @ 05:12:00**  
**OLMSTEAD RD.** - Mal Paso to Jack's Peak - **TREE BLOCKING ROAD @ 08:45:00 ROAD OPEN @ 14:20**  
**MERIDIAN RD.** @ 16005 - 18:11:00 - **ROAD OPEN @ 19:01:00**  
**VIEJO ROAD @** Aguajito Rd. @ 17:46:00 - **ROAD OPEN @ 18:43:00**  
**1st ST.** @ Hatton Ave. - 20:22:00 - **Tree on vehicle - ROAD OPEN 22:19:00**

#### ROADS OF INTEREST

**CACHAGUA-TASSAJARA BURN SCAR** - **ROADS OPEN** - Checked @ 09:52:00  
**NAC. - FERG. RD.** - **ROAD OPEN** - Checked @ 10:13:00  
**CASTROVILLE BLVD.** @ Elkhorn Rd. - Drainage was clear @ 17:30:00  
**CARMEL LAGOON** - Checked throughout event - Flowing/Open 15:30:00  
**VALLEY ROAD** - Drainage open/flowing - 19:10:00  
**ELKHORN ROAD @** Kirby Park open/flowing - 19:10:00  
**ROSEHART** Subdivision open/flowing @ 19:31:00



## FLOODING

**HARTNELL ROAD** - Hwy. 101 to Alisal Rd. **ROAD CLOSED**  
**RIVER RD.** @ 668 - Crews pumping water @ 10:45:00 - **ROAD OPEN**  
**RIVER ROAD** @ Laguna - **ROAD OPEN**  
**OUTLOOK** @ 25275 - **ROAD OPEN**  
**MAHER ROAD** @ 1649 - **ROAD OPEN**  
**ELKHORN** @ Walker Valley Road - **ROAD OPEN**  
**MONTE VERDE** -14th/15th @ 17:01:00 **ROAD OPEN**  
**15th AVE.** -@ Monte Verde @ 17:01:00 **ROAD OPEN**  
**15th AVE.** -@ 2680 @ 17:01:00 **ROAD OPEN**  
**ECHO VALLEY ROAD** @ 102-140 @ 17:11:00 **ROAD OPEN**  
**MAHER ROAD** - 338 and Maher Court @ 17:13:00 **ROAD OPEN**  
**RIO ROAD** - Oliver Rd./Mission Fields Rd. @ 17:17:00 **ROAD OPEN**  
**CRAZY HORSE CYN. RD.**- SJGR and Old Stage @ 17:27:00 **ROAD OPEN**  
**ELKHORN RD.** - 2046 to Spring Point Rd. @ 17:29:00 **ROAD OPEN**  
**ATHERTON RD.** - 26048 and Travis Wy. @ 17:34:00 **ROAD OPEN**  
**MERIDIAN ROAD** @ Dyer Road @ 19:04:00 - **ROAD OPEN**  
**MERIDIAN ROAD** @ Omart Road @ 19:08:00 - **ROAD OPEN**  
**DOLAN ROAD** @ 1/4 E/O Hwy. 1 @ 19:30:00 **ROAD OPEN**  
**LANGLEY CYN. RD.** @ 760 @ 20:56:00 **ROAD OPEN**  
**DAVIS ROAD** N/O Hitchcock @ 22:27:00 - **ROAD OPEN**  
**ROBINSON CYN. RD.** @ 28092 @ 22:28:00 - **ROAD OPEN**  
**HARKINS ROAD** - C.L and Hunter Rd. @ 22:35:00 **ROAD OPEN**  
**BLACKIE ROAD** - Borrromeo to Hwy. 183 - **ROAD CLOSED**  
**RALPH LANE** @ Assisi Way @ 23:42:00 - **ROAD OPEN**  
**DAVIS ROAD** @ Blanco Rd. @ 23:49:00 - **ROAD OPEN**

## DRAINAGE

**HARPER CYN. RD.** - 36/38 - Plugged Culvert -Low Flow @17:01:00

#### DEBRIS FLOW/ROCKS

**ROBINSON CYN. RD.** - Rocks removed from road @ 20:35:00 **ROAD OPEN**

**SCARLETT ROAD** near CVR @ 225:18:00 Rocks removed - **ROAD OPEN**

#### ERROSION

**LIVE OAK ROAD @ 765** Shoulder erosion - Temp. repair @ 16:05:00

## TREES

VALLEY WAY - **REMOVED /RD. OPEN** @ 07:45:00  
MERIDIAN RD. @ Dyer Rd. - **REMOVED/RD. OPEN** @ 03:59:00  
SYLVAN RD. @ Sylvan Place - **REMOVED/RD. OPEN** @ 09:30:00  
MIDDLEFIELD RD. - ROAD CLOSED @ 08:45:00 - **REMOVED/RD. OPEN** @ 11:42:00  
HOLLY HILL DR. @ 8841 HH DR. - Leaning in phone line. **REMOVED** @ 10:08:00  
SAN MIGUEL CYN. RD. @ 2333 SMC RD. - **REMOVED/RD. OPEN** @ 09:07:00  
OLMSTEAD RD. - Mal Paso to Jack's Peak -**REMOVED/ RD. OPEN** @ 08:45:00  
VIEJO ROAD @ 590 & Viejo Rd. - **REMOVED/RD. OPEN** - 13:01:00  
BAY VIEW AVE. @ Ocean View - Tree Blocking Road - **REMOVED/RD. OPEN**  
MARTIN WAY @ Bay View Ave. - Limbs in road - **REMOVED/RD. OPEN**  
SCENIC ROAD @ Martin Road - Limb Hanig in Tree - **REMOVED/RD. OPEN @ 16:03:00**  
VIEJO ROAD @ Aguajito Rd. @ 17:46:00 - **ROAD CLOSED**  
MERIDIAN RD. @ 16005 - 18:11:00 - **REMOVED/RD. OPEN** @ 19:01:00  
TASSAJARA ROAD @ PARROT RANCH ROAD - 18:27:00 - No Status?  
1st ST. @ Hatton Ave. - 20:22:00 -**REMOVED/ROAD OPEN** - Tree on vehicle  
CASTROVILLE BLVD. @ Elkhorn Rd. - 20:42:00 - **ROAD CLOSED**  
VALENZUELA RD. @ Aguajito Rd. - 20:44:00 - **ROAD CLOSED**  
CARMEL VALLEY RD. @ Schultie Rd. - 21:16:00 - **TREE LEANING IN LINES**  
LAZARRO DRIVE - 3445 @ 21:38:00 - **Tree Limb Removed**  
GARIN ROAD - Lewis and Elkhorn Rd. - **ROAD CLOSED** - **TREE BLOCKING**  
PENZANCE ROAD @ 43 - TREE LIMB @ 23:14:00 - **ROAD OPEN**  
HIGH MEADOWS ROAD @ Summit fld. Rd. @ 23:48:00 - **ROAD OPEN**

## POTHoles

SAN MIGUEL CYN. RD. @ Prunedale North - **PATCHED** @ 17:19:00 03/04/2016

# DEPARTMENT OPERATION CENTER

## MARCH 6, 2016 CALLS

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#### ROAD CLOSED

**HARTNELL RD.** - Hwy.101 to Alisal Rd.ROAD CLOSED/**FLOODING** - 04:15:00 - 03/05/2016

**MURPHY RD** - Hwy. 129 and San Juan Rd. - **ROAD CLOSED/FLOODING** - 13:33:00 - 03/05/2016

**ALISAL RD.** - C/L to Zabala - **ROAD CLOSED/FLOODED** -10:45

**RALPH LANE** - Assissi Way - Hwy. 101 - **ROAD CLOSED/FLOODED** - 00:30 - 03/05/2016

**ELKHORN ROAD** - Kirby Park to Waugh Rd. - **ROAD CLOSED/FLOODED** - 23:34

**ECHO VALLEY ROAD** - Tustin to Maher Road - **ROAD CLOSED/FLOODED** - 00:12

**SYLVAN ROAD** - 1154 to 1244 - **ROAD CLOSED/TREE** - 01:19

**SAN JUAN GRADE ROAD** - Sterling to Rogge - **ROAD CLOSED/FLOODED** - 01:28

**BLACKIE ROAD** - Prunedale South to 15740 Blackie - **ROAD CLOSE/FLOODED** - 01:58

**GARIN ROAD** - Lewis to Elkhorn - **ROAD CLOSED/TREE** - 02:14

**OLD STAGE ROAD** - Alisal to San Jerardo - **ROAD CLOSED/FLOODED** - 02:45

**OLD STAGE ROAD** - Chualar Rd. to Potter Rd. - **ROAD CLOSED/FLOODED** - 02:59

**SPENCE ROAD** - Old Stage Road and Hwy. 101 - **ROAD CLOSED/FLOODED** - 03:39

#### ROADS REOPENED

**VALENZUELA RD.** @ Aguajito Rd. - 20:44:00 - **TREE BLOCKING - ROAD OPEN - 08:53 - 03/06/2016**

**GARIN ROAD** - Lewis and Elkhorn Rd. - **ROAD OPEN - TREE BLOCKING - 08:00:00 - 03/06/2016**

**BLACKIE ROAD** - M.P 2.5-M.P.3.2 - **ROAD OPEN - FLOODED - 21:50 - 03/06/2016**

**HARRISON ROAD** - Russell & Sala Rd. - **ROAD OPEN - 22:12:00 - 03/06/2016**

**CASTROVILLE BLVD.** @ Elkhorn Rd. - 20:42:00 - **ROAD OPEN - 09:30 - 03/06/2016**

**SAN MIGUEL CYN. RD.** @ 1365 - **ROAD OPEN** - Need tree contractor to remove brush

**HARRISON ROAD** - Russell and Sala - **ROAD OPEN**- 04:48 - 03/07/2016

**RIVER ROAD** - 620 to 640 - **ROAD OPEN** - 02:42

**HIDDEN VALLEY ROAD @ 421** - **ROAD OPEN** - 07:33

## FLOODING

**HARKINS ROAD** - 5th and C/L - **ROAD OPEN** - 21:58

**RESERVATION RD.** -Panziera and E. Garrison Rd. - **ROAD OPEN** - 22:17

**MERIDIAN ROAD @ 15961** - **ROAD OPEN** - 22:21

**CASTROVILLE BLVD.** - H.S. and Los Ninos Pl. - **ROAD OPEN** - 23:06

**DAVIS ROAD @ Blanco Road** - **ROAD OPEN** - 23:36

**DAVIS ROAD @ Foster - River** - **ROAD OPEN** - 23:50

**RESERVATION E/O Davis Road** - **ROAD OPEN** - 23:57

**FOSTER ROAD** near Davis Road - **ROAD OPEN** - 00:16

**ECHO VALLEY ROAD** - Tustin to Maher Road - **ROAD CLOSED/FLOODED** - 00:12

**BORONDA ROAD @ E. Garza Rd.** - **ROAD OPEN** - 00:23

**VEGA ROAD @ 307** - **ROAD OPEN** - 00:49

**CALERA CANYON ROAD @ 77** - **ROAD OPEN** - 01:13

**ROBLEY ROAD @ 7** - **ROAD OPEN** - 01:20

**CORRAL DE TIERRA** - 268 - **ROAD OPEN** - 01:30

**OLD STAGE ROAD @ 525** - **ROAD OPEN** - 01:35

**ROBINSON CANYON ROAD** - M.P. 6.6 - **ROAD OPEN** - 01:22

**CRAZY HORSE RD.** - SJGR and Old Stage Rd. - **ROAD OPEN** - 01:41

**ROBINSON CANYON ROAD** - M.P. 8.1 - **ROAD OPEN** - 01:22

**SILL ROAD** - Harrington and King Hall Road - **ROAD OPEN** - 02:07

**MERIDIAN ROAD** - Valley Road and Omart - **ROAD OPEN** - 02:09

**Mc FADDEN** - 1/4 Mile from Cooper - **ROAD OPEN** - 02:28

**C.V.R.** - Esquiline to Holman - **ROAD OPEN** - 02:29

**OLD STAGE ROAD** -Spence and Potter - **ROAD OPEN** - 02:43

**VIA CONTENTA ROAD @ 26** - **ROAD OPEN** - 02:47

**RIVER ROAD** - 620 to 640 - **ROAD OPEN** - 02:42

**C.V.R.** - Loma Del Ray - **ROAD OPEN** - 05:39



#### DEBRIS FLOW/ROCKS

C.V.R. @ Scarlett Rd. - ROCKS ON ROAD - **ROAD OPEN** - 22:04  
ELKHORN ROAD - Kirby Park to Waugh Rd. - **DEBRIS FLOW** - **ROAD CLOSED** - 23:34  
ROBINSON CANYON ROAD - M.P. 1 - Mud in Road - **ROAD OPEN** - 01:07  
ROBINSON CANYON ROAD - M.P. 4.6 - Small Slide - **ROAD OPEN** - 01:22  
ROBINSON CANYON ROAD - M.P. 6 - Small Slide - **ROAD OPEN** - 01:22  
ROBINSON CANYON ROAD - M.P. 7.9 - Rocks in road - **ROAD OPEN** - 01:43  
SAN BENANCIO ROAD - 134-149 - small slide - **ROAD OPEN** - 03:25

#### TREES

C.V.R. @ Mira Monte Rd. - **ROAD OPEN** - 21:48  
VALENZUELA ROAD - **ROAD OPEN** - 23:04  
FLANDERS DR. @ Whitmen Cir. - **ROAD OPEN** - 23:22  
BLACKIE ROAD @ Berromeo Dr. - **ROAD OPEN** - 00:19  
SYLVAN ROAD - 1115 to 1204 - **ROAD CLOSED** - 01:19 PG & E  
GARIN ROAD - 2521 - **ROAD CLOSED** - 02:14  
ELKHORN ROAD - 300' S/O Strawberry Rd. - **ROAD OPEN** - **06:45**  
HIDDEN VALLEY ROAD @345, 443 & 470 - **ROAD OPEN** - 06:55  
SAN JUAN GRADE ROAD @1056 - **ROAD CLOSED** - 06:54

### POTHoles

C.V.R. - E/B # 2 Lane, 1000' from Carmel Middle School - 01:38

SAN JUAN GRADE ROAD - Cornwall to Penzance - 07:01:00

### ROADS OF INTEREST

CACHAGUA-TASSAJARA BURN SCAR -

NAC. - FERG. RD. -

CASTROVILLE BLVD. @ Elkhorn Rd. - **Flowing/Open** - 10:10

CARMEL LAGOON - 3.53' - **Flowing/Open** @ 00:16:30

VALLEY ROAD - **Flowing/Open** - 10:20

ELKHORN ROAD - Waugh to Kirby Park - **DEBRIS FLOW BLOCKING ROAD** - 10:00

ROSEHART Subdivision - **Flowing/Open** - 22:56

SRINGFIELD RD. - **Flowing/Open** - 10:35

ECHO VALLEY RD. @ 596 - **FLOODED - ROAD CLOSED** - 00:12

### ERROSION

RIVER ROAD - 500' E/O Parker Rd - **Road Support Slope Failer** - 06:39

### ANIMALS

ELKHORN @ Castroville Blvd. - 12 Bulls in road - 02:27

DEPARTMENT OPERATION CENTER  
MARCH 11, 2016 CALLS

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#### ROAD CLOSED

**HARTNELL ROAD** - Hwy 101 to Alisal Road

**MURPHY ROAD** - Hwy 129 to San Juan Road

**ALISAL ROAD** @ Old Stage Road - **ROAD CLOSED** - **EROSION** - 13:52

#### ROADS REOPENED

**BUENA VISTA DEL RIO** - Address 9 - **ROAD OPEN** - Tree Blocking - 13:20

**CROSS ROAD** at RESSE CIRCLE - **ROAD OPEN** - TREE - 13:50

**VIA DEL SOL ROAD** - Address 1179 - **ROAD OPEN** - PG&E Notified - 10:38

**TUCKER ROAD** - Address 220 - **ROAD OPEN** - 16:18

**HAYES ROAD** - 5 Eucalyptus Trees - **ROAD OPEN** - **TREE** - 15:47

**RIVER ROAD** - Address 640 to Parker Road - Pumping Ponding on Shoulder - **ROAD OPEN** - 1747

#### FLOODING

**ELKHORN ROAD** 1/4 Mile S/O Fire Station - **ROAD OPEN** - 09:53  
**AROMAS ROAD** - Address 250 to Kortwright Ln - **ROAD OPEN** - 10:12  
**ECHO VALLEY ROAD** - Address 104 to Maher Road - **ROAD OPEN** -10:29  
**SAN MIGUEL CY. RD.** - ADDRESS 885 to Tarpey Rd. - **ROAD OPEN** - 11:04  
**ALISAL ROAD** - Address 2150 - **ROAD OPEN** - 11:35  
**SILL ROAD** - Harrington and King Hill Rd. - **ROAD OPEN** - 11:37  
**RIVER ROAD** - Address 640 to Parker Road - Pumping Ponding on Shoulder - **ROAD OPEN**- 1747  
**C.V.R.** - Esquiline and Holman Road - **ROAD OPEN** - 17:19

#### TREES

**TIERRA GRANDE DRIVE** - Blocking 1 Lane - **ROAD OPEN** - 07:50  
**MERIDIAN ROAD** - Address 14869, private driveway - **ROAD OPEN** - 10:47  
**BUENA VISTA DEL RIO** - Address 9 - **ROAD OPEN** - 11:17  
**PALO COLORADO ROAD** - Address 36955 - Tree Leaning - **ROAD OPEN** - 10:07  
**VIA DEL SOL ROAD** - Adress 1179 - **ROAD OPEN** - PG&E Notified - 10:38  
**HAYES ROAD** - 5 Eucalyptus Trees - **ROAD OPEN** - 13:37  
**CROSS ROAD** at RESSE CIRCLE - **ROAD OPEN** - PG&E Removed Line - 13:50  
**TUCKER ROAD** - Address 220 - **ROAD OPEN** - 15:41  
**VALLEY VIEW** - 16th Ave. - Hanger - **ROAD OPEN** - 15:47

#### POTHOLES

**ELKHORN ROAD** - Between Paradise and Hidden Valley Rd. - **PATCHED** - 11:07

**BLANCO ROAD** at Davis Road - **NEED PATCHING** - 14:24

#### ROADS OF INTEREST

**CACHAGUA-TASSAJARA BURN SCAR** -

**NAC. - FERG. RD.** -

**CASTROVILLE BLVD.** @ Elkhorn Rd. -

**CARMEL LAGOON** -

**ROSEHART** Subdivision -

**RALPH LANE** - ASSISI Way to HWY. 101

**SANTA RITA** - Rogge Rd. to Russell Rd. - **Flowing/Open** - 10:42

**SAN JUAN ROAD** - Address 1247

**OLD STAGE ROAD** @ Camp San Jerardo

**HARTNELL ROAD** -

**VALLEY ROAD** -

**ELKHORN ROAD** -Waugh to Kirby Park -

**SRINGFIELD RD.** -

**ECHO VALLEY RD.** @ Address 596

**CAMP SAN JERARDO** - **Flowing/Open** - 11:32



#### DRAINAGE

**TASSAJARA ROAD** - Tree blocking drainage - **No Damage** - 08:26

**MAHER ROAD** - Address 291 - Ditch needs to be cleaned (**Bad Farmer**) - 15:52

#### ERROSION

**LAS LOMAS DRIVE** - Address 137 - **ROAD OPEN** - 12:56

**ALISAL ROAD @ Old Stage Road** - **ROAD CLOSED** - 13:52

**METZ ROAD** - M.P. 9 - **ROAD OPEN** - 13:49

### **ROAD CLOSED**

HARTNELL ROAD - Hwy 101 to Alisal Road

MURPHY ROAD - Hwy 129 to San Juan Road

ALISAL ROAD @ Old Stage Road - ROAD CLOSED - EROSION - 13:52

### **POTHoles**

BLANCO @ DAVIS: PATCHED @ 21:00

### **TREES**

MERIDIAN ROAD-TREE LIMB REMOVED @ 19:30

OUTLOOK DRIVE@CANADA-TREE MOVED TO SHOULDER@21:45

SALINAS RD@FRUITLAND-DEBRIS MOVED TO SHOULDER @21:45

## ROADS OF INTEREST

CACHAGUA-TASSAJARA BURN SCAR -  
NAC. - FERG. RD. -  
CASTROVILLE BLVD. @ Elkhorn Rd. -  
CARMEL LAGOON -  
ROSEHART Subdivision -  
RALPH LANE - ASSISI Way to HWY. 101  
SANTA RITA - Rogge Rd. to Russell Rd.  
SAN JUAN ROAD - Address 1247  
OLD STAGE ROAD @ Camp San Jerardo  
HARTNELL ROAD -  
VALLEY ROAD -  
ELKHORN ROAD -Waugh to Kirby Park -  
SRINGFIELD RD. -  
ECHO VALLEY RD. @ Address 596

# PHOTOS DOCUMENTATION BY INCIDENT DATE

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## NACIMIENTO FERGUSON ROAD





## NACIMIENTO FERGUSSON ROAD





## NACIMIENTO FERGUSSON ROAD





## NACIMIENTO FERGUSON ROAD



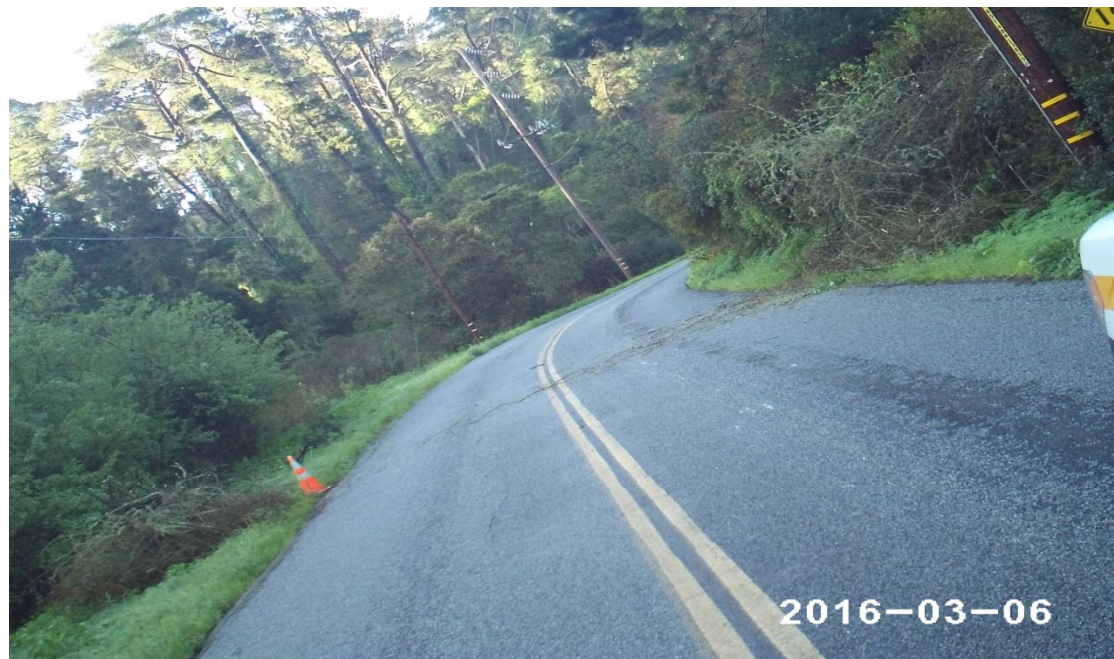


## MILPITAS ROAD





## AGUAJITO ROAD





## CACHAGUA ROAD





## COAST ROAD





## CORRAL DE TIERRA ROAD





## FLANDERS DRIVE





## GARRAPATOS ROAD





**LAGUNA ROAD**



**VIEJO ROAD**





## MT DEVON





## OLMSTED ROAD





## PASEO DE VAQUERO



## SANTA FE STREET





**RESERVATION ROAD**



**ROBINSON CYN ROAD**





## RIVER ROAD





## ROBLEY ROAD





**TORO ROAD**



**SPINDRIFT ROAD**





## VIEJO ROAD





## METZ ROAD

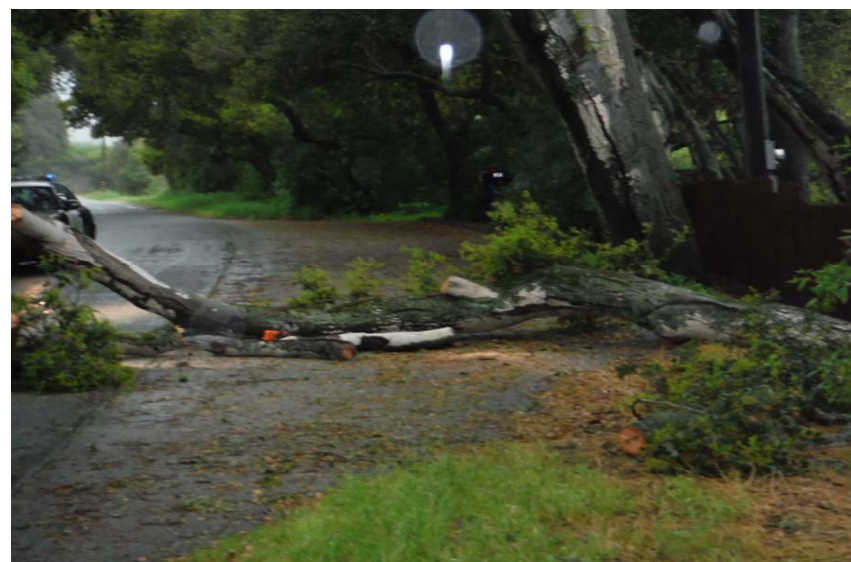




**VIERRA CYN ROAD**



**GARIN ROAD**





## ALISAL ROAD





## ALISAL ROAD





## ALISAL ROAD

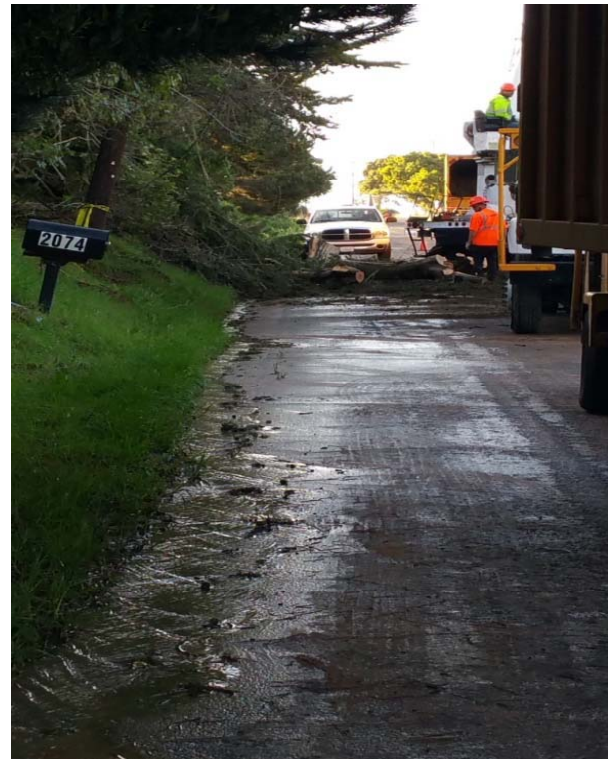




## SAN MIGUEL CANYON ROAD



## ELKHORN ROAD





## BLANCO ROAD





## ECHO VALLEY ROAD





## SPENCE ROAD @ OLD STAGE ROAD



## HARTNEL ROAD @ OLD STAGE ROAD





## BLACKIE ROAD



## HALL ROAD NEAR PINI ROAD





## ELKHORN ROAD @KIRBY ROAD





## PARADISE ROAD





**MIDDLEFIELD ROAD**



**BAY VIEW AVE**





## HARPER CANYON RD





**VALENZUELA ROAD**



**WHITMAN CIRCLE**





**CALLE DE QUIEN SABE**



**CVR @ CANADA DRIVE**





**55 CVR AC BERM**



**SYLVAN ROAD AC BERM**





**OCEAN AVE & RANDALL WAY**



**HATTON AVE - SPRECKLES**





## OLD STAGE ROAD @ SAN JERARDO ROAD DITCH CLEANING





**CASTROVILLE BLVD DRAINAGE**



**222 HALL ROAD CULVERT REPAIR**





## LAS LOMAS DRIVE BETWEEN THOMAS DR & 1112 LAS LOMAS DRIVE





## LAURELES GRADE MP 1.1 (SOUTHBOUND LANE)



2016-03-25



## BLANCO ROAD AT ARMSTRONG ROAD



## SILL ROAD AT HARRINGTON ROAD





## FOSTER ROAD AT HWY 68



# JOB ORDER CONTRACTS IN PROCESS



## ATTACHMENT 1

| JOC Projects In Process                                    |                     |
|--|---------------------|
| Project  | Costs               |
| Hall Road Slide Repair - Las Lomas                         | \$ 85,000           |
| Calle Quien Sabe Drainage                                  | \$ 30,000           |
| Carmel Valley Road Storm Culvert Crossing Repair           | \$ 35,000           |
| Castroville Blvd. Drainage by High School                  | \$ 10,000           |
| 620 River Road Ditch                                       | \$ 80,000           |
| 55 Carmel Valley Road AC Dike                              | \$ 18,000           |
| Carmel Valley & Rio Vista Sink Hole                        | \$ 41,000           |
| Sylvan & Manor Road Berm                                   | \$ 5,000            |
| 61/63 Carmel Valley Road Berm                              | \$ 5,000            |
| 2741 Calle de la Cruz & Via Ribera                         | \$ 35,000           |
| Old Stage Road - San Jerardo                               | \$ 100,000          |
| Ocean Ave. & Randall Way Culvert                           | \$ 35,000           |
| Hatton Ave Road Repair - Spreckels                         | \$ 30,000           |
| 555 River Road   | \$ 16,000           |
| 620 River Road   | \$ 12,000           |
| 596 Echo Valley Road                                       | \$ 387,000          |
| Alisal Road & Old Stage Road                               | \$ 16,000           |
| Las Lomas Drive between Thomas Road & 1112 Las Lomas Drive | \$ 150,000          |
| Hall Road  | \$ 350,000          |
| Laureles Grade Slope Repair                                | \$ 400,000          |
| <b>Total</b>   | <b>\$ 1,840,000</b> |

| Support Contractors                           |                  |
|---|------------------|
| West Coast Arborist/Topes                     | \$ 10,000        |
| Heavy Rental Equipment                        | \$ 15,000        |
| Greenline (Susan Street Pump Station, Pajaro) | \$ 5,000         |
| <b>Total</b>                                  | <b>\$ 30,000</b> |

**Total \$ 1,870,000**

# TOTAL ESTIMATED COSTS

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## **Estimated Emergency Storm Damage Expenditures**

### **Storm Response Teams**

|  |                 |
|--|-----------------|
| Storm Patrol Teams/Emergency Assessment Team |                 |
| Department Operation Command (DOC) Team      | \$50,000        |
| Subtotal:                                    | <u>\$50,000</u> |

### **Supervisory District Maintenance Crew**

|           |                  |
|-----------|------------------|
|           | \$250,000        |
| Subtotal: | <u>\$250,000</u> |

### **Job Order Contract (JOC) Projects**

|           |                    |
|-----------|--------------------|
|           | \$1,840,000        |
| Subtotal: | <u>\$1,840,000</u> |

### **Outside Contractors**

|   |                 |
|---|-----------------|
| West Coast Arborist/Topes                     | \$10,000        |
| Heavy Rental Equipment                        | \$15,000        |
| Greenline (Susan Street Pump Station, Pajaro) | \$5,000         |
| Subtotal:                                     | <u>\$30,000</u> |

**Grand Total: \$2,170,000**

# ESTIMATED PERMANENT RESTORATION COSTS

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## ATTACHMENT 2

| Winter Storms 2016 Damage Assesment for Permanent Restoration                              |                     |
|--|---------------------|
| Projects   | Costs               |
| Hall Road Slide Repair - Las Lomas   | \$ 200,000          |
| Calle Quien Sabe Drainage  | \$ 30,000           |
| Carmel Valley Road Storm Culvert Crossing Repair   | \$ 35,000           |
| 620 River road Ditch   | \$ 65,000           |
| Carmel Valley & Rio Vista Sink Hole  | \$ 41,000           |
| Old Stage Road - San Jerardo   | \$ 150,000          |
| Ocean Ave. & Randall Way Culvert   | \$ 35,000           |
| 555 River Road   | \$ 80,000           |
| 620 River Road   | \$ 12,000           |
| 596 Echo Valley Road   | \$ 130,000          |
| Las Lomas Drive between Thomas Road & 1112 Las Lomas Drive                                 | \$ 500,000          |
| Hall Road Pipe Replacement   | \$ 250,000          |
| Spence Rd between Hwy 101 and Old stage Road   | \$ 950,000          |
| Hartnell Rd  | \$ 300,000          |
| Old Stage Rd between Spence Road and 0.2 miles north                                       | \$ 120,000          |
| Alisal Road between Old Stage Road to Hartnell Road  | \$ 1,000,000        |
| Elkhorn Rd @ MP 0.05, (0.1 to 0.7), (1.3 to 2.1), (3.0 to 3.15), (3.55 to 3.65) Road repai | \$ 1,200,000        |
| Blanco @ Armstrong   | \$ 100,000          |
| Sill Road bottom from School ? From Harrington Rd down                                     | \$ 150,000          |
| Crazy Horse Canyon Road @ San Juan Grade Road pipes ?                                      | \$ 80,000           |
| Natividad Rd (from Herbert Road to Natividad Rd)   | \$ 75,000           |
| Cooper between Nashua Road to HWY 183  | \$ 400,000          |
| Foster Rd  | \$ 600,000          |
| Maher Rd - Castroville (Silt)  | \$ 65,000           |
| Metz Road (Wash Out)   | \$ 50,000           |
| Nacimiento Fergusson Road  | \$ 450,000          |
| Garrapatos Road  | \$ 250,000          |
| <b>Total</b>   | <b>\$ 7,318,000</b> |