

**EMERGENCY ROAD CLOSURES
INCIDENT MANAGEMENT
25th REGIONAL LOCAL
ROAD CONFERENCE**

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Cass County Highway Department

West Fargo, ND

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Cass County Highway Department **Flood Operations Plan**

Defines Overall Procedures and Tasks

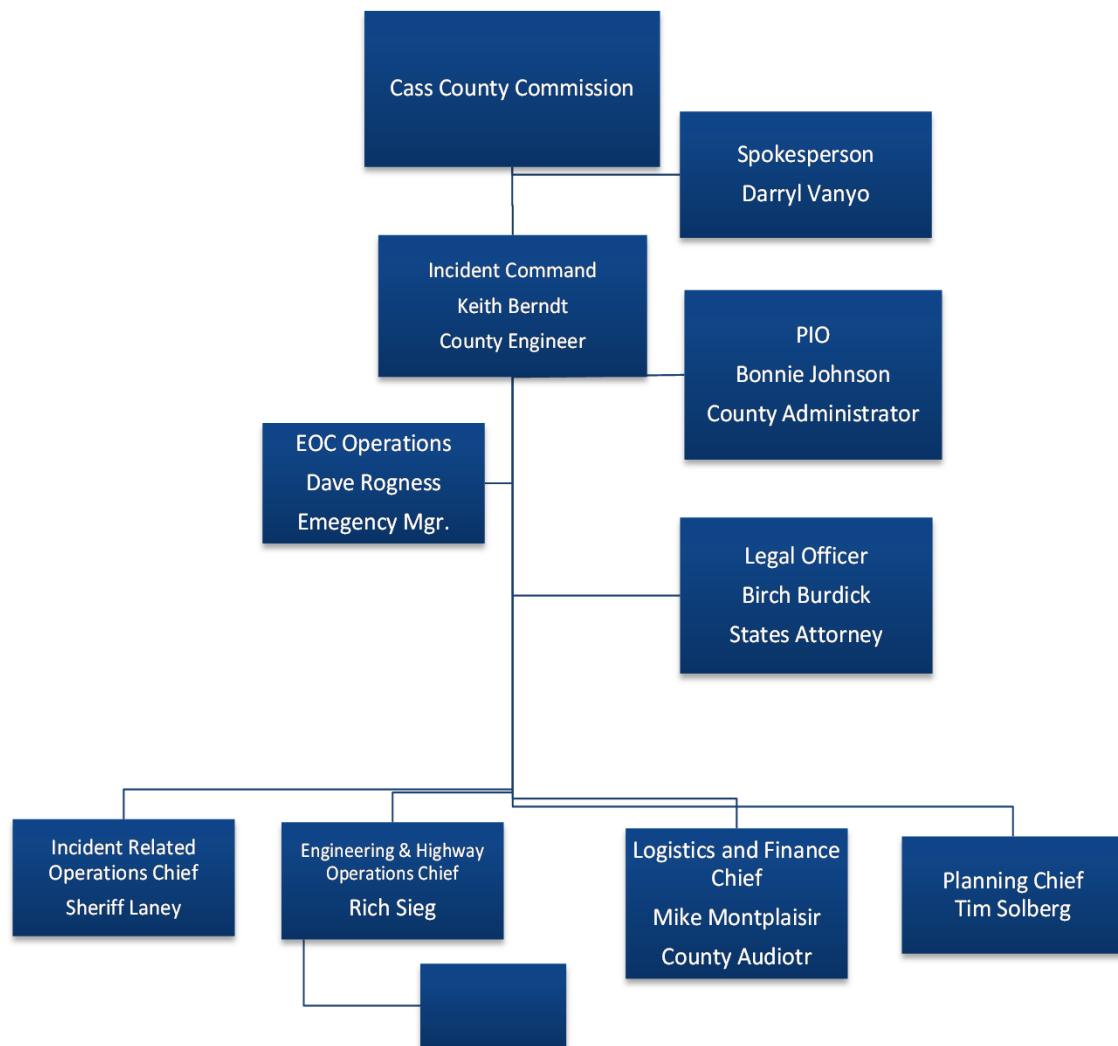
Defines Tasks for Each Division within the Department

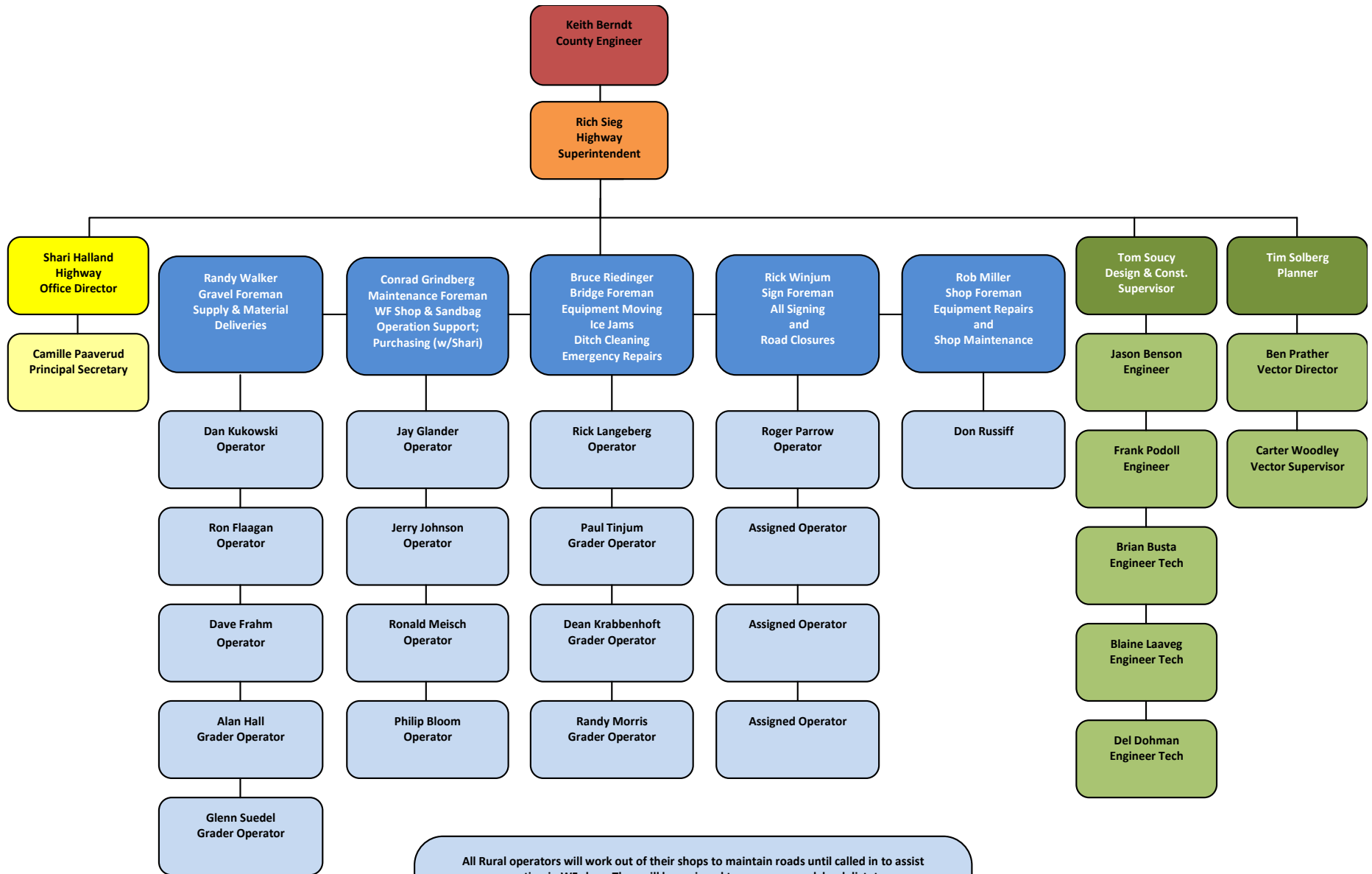
Organizes Crews Within Divisions

Defines Milestones for Specific Actions

or

**a List of Bad Things That Happen
at a Given River Stage**





All Rural operators will work out of their shops to maintain roads until called in to assist operation in WF shop. They will be assigned to a crew as work load dictates.

Operators shall be assigned to the sign department as conditions warrant.

All Operators may be reassigned as needed depending on work load of each crew.

24 hour operations will begin as conditions dictate, with crews being assigned to shifts.

Cass County Highway Department

Emergency Road Closure and Signing Procedures

March 9, 2010

Roadway Closure:

Minimum of 2-Type III Barricades shall be installed at each side of hazard. At least one barricade on each side shall have a Road Closed sign attached. If in the judgment of the person closing the road two barricades are not adequate, additional barricades should be installed.

Advanced warning shall be placed at the nearest intersection each way from the closure, and shall consist of Road Closed Ahead sign or Type III Barricade with Road Closed attached. Sound judgment and individual conditions at each site shall dictate the type and placement of all signs.

Water over Roadway or other condition not requiring closure:

If conditions indicate that traffic can safely pass through the area, a combination of warning signs shall be installed to alert the public, and guide them through the segment of road. Signs used shall include, but are not limited to Barricades, Water Over Road, Cones, Tubular Markers, and Reduced Speed Limits. If an unsafe condition becomes apparent that cannot be repaired or marked to alert traffic, the roadway shall be closed to traffic.

As soon as practical after a closure or install of signs, the Closure Field Log shall be completed and sent to the TOC for update of internet map. This step can be accomplished by the Sign Foreman, shift supervisor, or the person installing the signs.

To track location of signs, the Barricade and Sign Location Log shall be completed and turned in to Sign Foreman at the end of each shift.

BARRICADE AND SIGN LOCATION LOG

J:\Admin-Eng\FLOOD\Barricade Log.doc

[illegible]

BARRICADES AND SIGN LOCATION LOG 2009

| DATE INSTALLED | HWY # | LOCATION | ITEMS INSTALLED | DATE REMOVED |
|-------------------|-------|------------------------------------|---|-----------------|
| 3/17/2009 | C-3 | C-3 NORTH OF C-4 | 4-TYPE III & 2 RD CLOSED AHD (remove an sent to Buffalo shop) | 3/21/2009 |
| 3/17/2009 | C-81 | ON C-81 @ C-22 | 2-BE PRE. TO STOP 2-MEN WORKING 4-WINDMASTERS | 3/21/2009 |
| 3/19/2009 | C-81 | C-81 @ 88 AVE WEST BOUND | 2-TYPE III | |
| 3/19/2009 | TWP | SEC 35-36 STANLEY | 4-TYPE III & 2 RD CLOSED AHD | |
| 3/19/2009 | TWP | SEC 34-NORTH PLEASANT TWP. | 4-TYPE III & 2 RD CLOSED AHD | |
| 3/21/2009 | C-2 | 2 MILES EAST OF HUNTER | RON M. CHECKED NO WATER ON ROAD | |
| 3/22/2009 | C-6 | JCT. C-6 & C-5 | 1-TYPE III & 3 CONES (WATER ON ROAD) | 4/5/2009 |
| 3/22/2009 | C-16 | COUNTY LINE TO C-38 (BRIDGE) | 6-TYPE III 1-ROAD CLOSE AHD. | 5/5/2009 |
| 3/23/2009 | C-26 | 4 EAST OF ST 18 1 WEST OF SCHOOL | 2-WATCH FOR HIGH WATER, 2 WINDMASTERS | 3/24/2009 |
| 3/23/2009 | C-36 | JUST WEST OF C-9 | 1-TYPE III | 5/27/2009 |
| 3/23/2009 | C-9 | C-16 TO COUNTY LINE | 4-TYPE III | 4/28/2009 |
| 3/23/2009 | C-81 | 64 AVE S TO ROUND HILL | 2-35 SPEED LIMITS & 2-WINDMASTERS | 5/12/2009 |
| 3/23/2009 | C-32 | C-3 TO ABSARAKA | 4- TYPE III & 2 RD CLOSED AHD. 2 WINDMASTERS | 4/22/2009 |
| 3/23/2009 | C-32 | ST. 18 TO C-81 | 4-TYPE III | 4/16/2009 |
| 3/23/2009 | C-1 | 4 MILES SO. OF I-94 | 4- TYPE III & 2 RD CLOSED AHD | 4/23/2009 |
| 3/23/2009 | C-16 | WEST OF ST. 18 | 2-TYPE III | 4/26/2009 |
| 3/23/2009 | C-9 | I-29 SO. 4 1/2 MILES | 4-TYPE III & 2 RD CLOSED AHD | 3/30/2009 |
| 3/23/2009 | C-5 | FROM C-16 NO. JCT TO C-6 | 2-TYPE III & 1 RD. CLOSED AHD & WINDMASTER | 4/23/2009 |
| 3/23/2009 | C-7 | FROM NO. JCT C-16 TO C-6 | 2-TYPE III & 1 RD. CLOSED AHD. & WINDMASTER | 3/30/2009 |
| 3/23/2009 | C-6 | WEST BOUND JUST EAST OF C-5 | 1-WATCH FOR HIGH WATER & WINDMASTER | 3/31/2009 |
| 3/23/2009 | C-36 | BETWEEN C-9 & C-27 | 2-TYPE III | 4/29/2009 |
| 3/23/2009 | C-12 | C-1 TO C-38 | 2-TYPE III | 5/16/2009 |
| 3/23/2009 | C-1 | C-32 TO 1 MILE NO. OF TOWER CITY | 2-TYPE III | 4/16/2009 |
| 3/23/2009 | C-3 | BETWEEN C-4 & C-26 | 4-TYPE III & 2 RD CLOSED AHD | 4/19/2009 |
| 3/23/2009 | C-1 | AT C-26 | 2-TYPE III | 4/13/2009 |
| 3/23/2009 | C-1 | AT C-32 | 2-TYPE III | 4/16/2009 |
| 3/23/2009 | C-1 | AT C-4 | 2-TYPE III | 4/16/2009 |
| 3/23/2009 | C-4 | BETWEEN C-1 & CO. LINE | 2-TYPE III | 3/28/2009 |
| 3/23/2009 | C-4 | AT R.R. TRACKS WEST OF ST 18 | 2-TYPE III | 4/12/2009 |
| 3/23/2009 | C-20 | FROM C-11 EAST 5 MILES | 2-TYPE III | 4/28/2009 |
| 3/23/2009 | C-13 | NORTH END OF C-13 SO. BOUND | 1-TYPE III | 4/17/2009 |
| 3/23/2009 | C-18 | C-17 TO I-29 | 4- 3D TYPE III JAY & DAVE | 4/18/2009 |
| 3/24/2009 | C-1 | AT C-32 | 2-TYPE III | 4/14/2009 |
| 3/24/2009 | C-2 | AT ST. 38 | 1-TYPE III | 4/18/2009 |
| 3/24/2009 | C-34 | 1 - MILE EAST OF ARTHUR | 2 - 3D TYPE III | 4/23/2009 |
| 3/24/2009 | C-6 | C-38 TO COUNTY LINE | 3 - 3D TYPE III & 1 RD. CLOSED AHD. | 4/14/2009 |
| 3/24/2009 | C-6 | C-38 TO C-7 | 2-TYPE III | 4/14/2009 |
| 3/24/2009 | C-3 | C-26 NORTH TO COUNTY LINE | 2-TYPE III | 4/19/2009 |
| 3/24/2009 | C-81 | 64 AVE S TO ROUND HILL | CHANGED 35 SPEED TO 25 SPEED | 5/1/2009 |
| 3/24/2009 | C-34 | 2-MILES WEST OF I-29 | 2-WATCH FOR HIGH WATER, 2 WINDMASTERS | 4/26/2009 |
| 3/24/2009 | C-10 | RAYMOND INT. ROAD @ C-10 SO. BOUND | 1- 3D TYPE III JAY & DAVE | 5/5/2009 |
| 3/24/2009 | C-18 | C-81 TO RED RIVER | 2-TYPE III | 5/6/2009 |
| 3/24/2009 | C-10 | ST. 18 TO C-5 | 4-TYPE III & 1- RD CLOSED AHD | 4/16/2009 |
| 3/24/2009 | C-81 | AT 64TH AVE | 2 - LOCAL TRAFFIC ONLY AND WINDMASTERS | 5/1/2009 |
| 3/24/2009 | C-22 | C-13 TO C-17 | 6-TYPE III | 5/12/2009 |
| 3/25/2009 | C-16 | I-29 TO C-81 | 2-TYPE III | 4/29/2009 |
| 3/25/2009 | C-21 | C-14 TO C-16 | 2-TYPE III | 4/22/2009 |
| 3/25/2009 | C-16 | ST 18 TO C-5 | 8-TYPE III | 5/4/2009 |
| 3/25/2009 | C-10 | TOWER CITY TO ST-38 | 4-TYPE III | 4/18/2009 |
| 3/25/2009 | C-81 | C-14 & C-81 NORTH BOUND | 1-TYPE III WITH DETOUR LEFT | 4/14/2009 |
| 3/25/2009 | C-81 | 76 AVE S | 1-TYPE III | 5/2/2009 |
| 3/25/2009 | C-81 | C-16 TO BUTCHERBLOCK | 4-TYPE III | 5/12/2009 |
| 3/25/2009 | C-34 | ST. 18 TO C-81 | 2-TYPE III | 3/29/2009 |
| 3/25/2009 | C-34 | C-81 TO RED RIVER | 4-TYPE III | 5/12/2009 |
| 3/25/2009 | C-20 | C-17 WEST 2 MILES | 2-TYPE III | 4/24/2009 |
| 3/25/2009 | C-31 | C-2 TO C-26 | 2-TYPE III | 5/3/2009 |
| 3/25/2009 | C-31 | C-22 TO C-4 | 2-TYPE III | 5/3/2009 |
| 3/25/2009 | C-31 | C-34 TO C-26 | 3-TYPE III | 5/5/2009 |
| 3/26/2009 | C-34 | C-11 TO C-81 | 2-TYPE III | 5/16/2009 |
| 3/26/2009 | C-10 | C-19 TO C-11 | BARRICADED BY CONTRACTOR | 4/3/2009 |
| 3/26/2009 | C-81 | ARGUSVILL TO HARWOOD | 2-TYPE III | 4/28/2009 |

HIGHWAY CLOSED TO TRAFFIC

| HWY. NO. | INSTALLED DATE/ TIME | BEGINNING LOCATION (911 STREET OR AVENUE) | ENDING LOCATION (911 STREET OR AVENUE) | OPENED DATE/ TIME |
|-------------|----------------------------|--|---|-------------------------|
| | | | | |
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**Turn in to TOC immediately after closure or installation
and when road is re-opened**

WATER OVER HIGHWAY

CAUTION ADVISED

| HWY. NO. | INSTALLED DATE/ TIME | BEGINNING LOCATION (911 STREET OR AVENUE) | ENDING LOCATION (911 STREET OR AVENUE) | OPENED DATE/ TIME |
|---------------------|-------------------------------------|--|---|----------------------------------|
| | | | | |
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Turn in to TOC immediately after closure or installation

and when road is re-opened

**Road Closures: New Item**

OK

Cancel

[Attach File](#) | [Spelling...](#)

* indicates a required field

Highway Number *

Beginning Location *

911 Road Numbers or County/State Highway Only

End Location *

911 Road Numbers or County/State Highway Only

Date Closed *

 12 AM ▾ 00 ▾

Date Reopened

 12 AM ▾ 00 ▾

Condition Type *

- ☐ Closed to Traffic
- ☐ Water Over Road-Travel Not Advised
- ☒ Caution Advised-One Lane Traffic
- ☐ Caution Advised

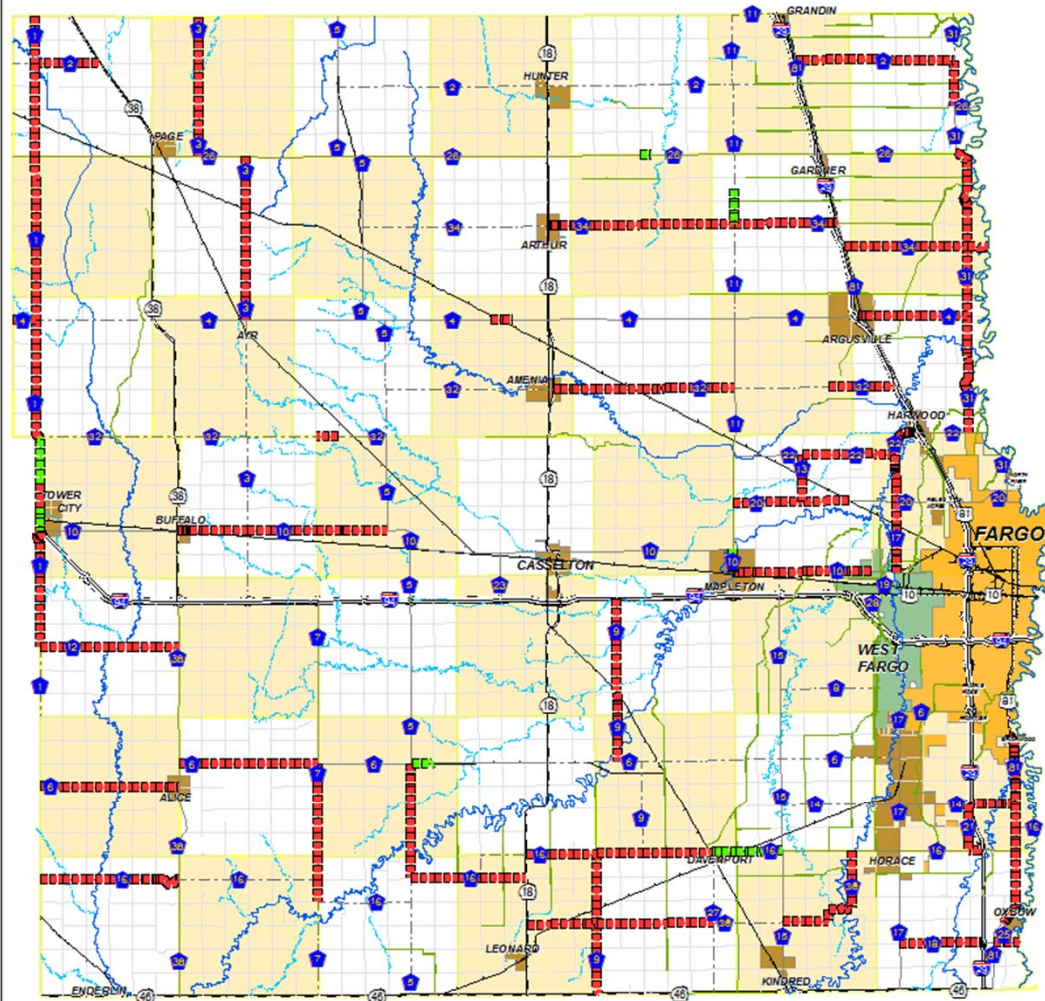
Additional Information

OK

Cancel

CASS COUNTY ROAD CONDITIONS DUE TO FLOODING

2010 Spring Flooding - Cass County, ND



Cass County Highway Dept
1201 Main Ave W
West Fargo, ND 58078
(701) 298-2370

ROAD CLOSURES WILL BE UPDATED AS SOON AS NEW INFORMATION BECOMES AVAILABLE.
CASS COUNTY ADVISES NO TRAVEL ON ROADS COVERED IN WATER.

- | | | |
|-----------------|-----------------|-------------|
| One Lane Open | Interstates | City Limits |
| Water Over Road | US Routes | Fargo |
| Road Closed | State Highways | West Fargo |
| Speed Reduced | County Highways | Townships |




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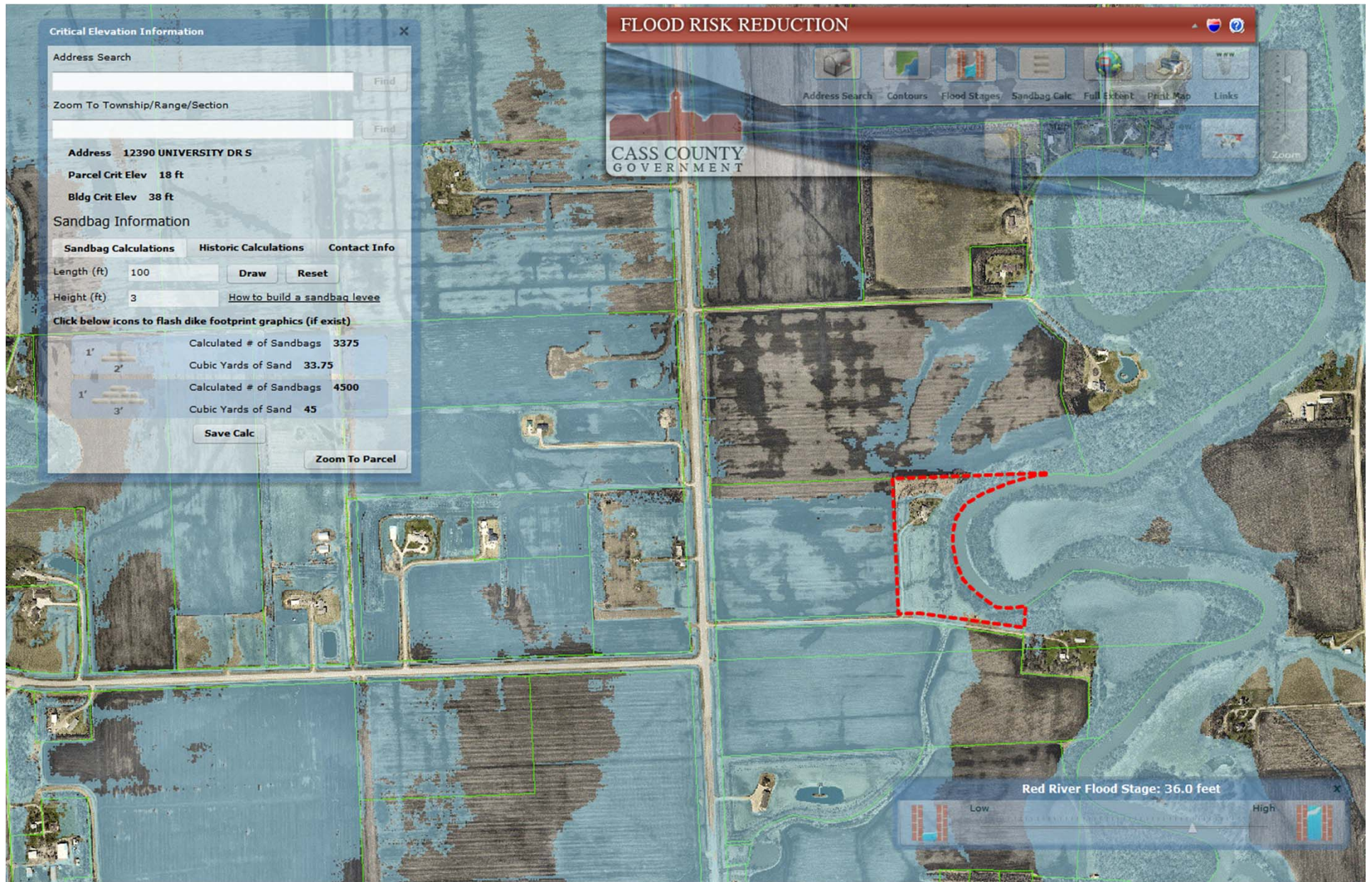
2010 Flood

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Road Closures

| New | Actions | Settings | | | | | | View: | Closed Roads - Admin... |
|-------------------|--------------------|--------------------|--------------------|--------------------|------------------------------------|--------------------|------------------------|--------------------|-------------------------|
| Highway Number | Beginning Location | End Location | Date Closed | Date Reopened | Condition Type | Created | Additional Information | Modified | Modified By |
| County Highway 11 | 19th St SE | 18th St SE | 3/15/2010 12:00 AM | 3/19/2010 12:00 AM | Water Over Road-Travel Not Advised | 3/15/2010 6:37 PM | (no title) | 3/19/2010 8:22 AM | Solberg, Timothy |
| County Highway 32 | 145th Ave SE | 144th Ave SE | 3/15/2010 12:00 AM | 3/23/2010 12:45 PM | Caution Advised-One Lane Traffic | 3/15/2010 7:11 PM | Water On Road | 3/23/2010 7:40 PM | Jones, Lori |
| County Highway 23 | 36th St SE | 35th St SE | 3/15/2010 12:00 AM | 3/18/2010 8:35 PM | Water Over Road-Travel Not Advised | 3/19/2010 1:43 PM | (no title) | 3/19/2010 1:43 PM | Gilbertson, Krystle |
| County Highway 2 | 156th Ave SE | 159th Ave SE | 3/16/2010 5:10 PM | 3/19/2010 12:00 AM | Water Over Road-Travel Not Advised | 3/19/2010 1:48 PM | (no title) | 3/19/2010 1:48 PM | Gilbertson, Krystle |
| County Highway 18 | 174 1/2 Ave SE | Red River | 3/16/2010 10:30 PM | 3/25/2010 9:00 AM | Closed to Traffic | 3/16/2010 10:28 PM | (no title) | 3/25/2010 9:09 AM | Gilbertson, Krystle |
| County Highway 1 | 16th St SE | 18th St SE | 3/16/2010 10:30 PM | 4/1/2010 5:00 PM | Closed to Traffic | 3/16/2010 10:31 PM | (no title) | 4/1/2010 3:34 PM | Solberg, Timothy |
| County Highway 9 | 40th St SE | 42nd St SE | 3/16/2010 10:30 PM | 3/19/2010 4:00 PM | Closed to Traffic | 3/16/2010 10:45 PM | (no title) | 3/20/2010 7:18 AM | Gilbertson, Krystle |
| County Highway 18 | 172nd Ave SE | 173rd Ave SE | 3/16/2010 10:30 PM | 4/5/2010 12:00 AM | Closed to Traffic | 3/16/2010 10:46 PM | (no title) | 4/16/2010 12:55 PM | Solberg, Timothy |
| County Highway 7 | 45th St SE | 46th St SE | 3/16/2010 10:30 PM | 3/18/2010 3:00 PM | Closed to Traffic | 3/19/2010 1:57 PM | (no title) | 3/19/2010 1:57 PM | Gilbertson, Krystle |
| County Highway 13 | 31st St SE | 33rd St SE | 3/17/2010 9:00 AM | 3/26/2010 8:00 AM | Closed to Traffic | 3/17/2010 2:35 PM | (no title) | 3/26/2010 10:15 AM | Solberg, Timothy |
| County Highway 1 | 28th St SE | 30th St SE | 3/17/2010 9:45 AM | 4/6/2010 12:00 AM | Closed to Traffic | 3/17/2010 2:35 PM | (no title) | 4/6/2010 8:03 AM | Solberg, Timothy |
| County Highway 36 | 157th Ave SE | 159th Ave SE | 3/17/2010 11:45 AM | 3/26/2010 11:00 AM | Closed to Traffic | 3/17/2010 11:55 AM | (no title) | 3/26/2010 11:23 AM | Solberg, Timothy |
| County Highway 20 | 163th Ave SE | 167th Ave SE | 3/17/2010 2:40 PM | 3/26/2010 8:00 AM | Closed to Traffic | 3/17/2010 2:37 PM | (no title) | 3/26/2010 10:16 AM | Solberg, Timothy |
| County Highway 20 | 14th St NW | County Highway 17N | 3/17/2010 9:00 PM | 4/6/2010 12:00 AM | Water Over Road-Travel Not Advised | 3/18/2010 7:16 AM | Local Traffic Only | 4/6/2010 8:04 AM | Solberg, Timothy |
| County Highway 10 | 136th Ave SE | 137th Ave SE | 3/17/2010 9:20 PM | 3/25/2010 12:30 PM | Closed to Traffic | 3/18/2010 7:11 AM | (no title) | 3/25/2010 1:01 PM | Gilbertson, Krystle |
| County Highway 22 | 166th Ave SE | 167th Ave SE | 3/17/2010 9:40 PM | 3/18/2010 8:35 PM | Water Over Road-Travel Not Advised | 3/19/2010 1:42 PM | (no title) | 3/19/2010 1:42 PM | Gilbertson, Krystle |
| County Highway 12 | 136th Ave SE | 137th Ave SE | 3/18/2010 1:35 AM | 3/20/2010 8:00 AM | Water Over Road-Travel Not Advised | 3/18/2010 2:28 AM | (no title) | 3/20/2010 8:08 AM | Gilbertson, Krystle |
| County Highway | 166th Ave SE | 168th Ave | 3/18/2010 9:00 AM | 3/19/2010 12:00 AM | Water Over | 3/18/2010 8:42 AM | | 3/22/2010 1:38 PM | Solberg |

Flood Information page at www.casscountynd.gov





2010/03/17 15:55



2010/03/20 08:55

C-16 west of C-36

Second Barricade



27 11:16 AM



2010/03/28 10:51

Speed Reduction

Adv. Warning





Candle Sticks

2010/03/21 17:12



Delineators

25 7:46 PM



Delineators

C-22 west of C-17







**“HEY DAD, THERE’S SOMETHING
WRONG WITH THE CAR”**



2010/03/31 10:21









2010/03/31 10:59



THAT'S IT

