


Sources: Esri, HERE, DeLorme, USGS, Intermap, Esri China (Hong Kong), Esri (Thailand), TomTom, and the GIS User-Community

**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

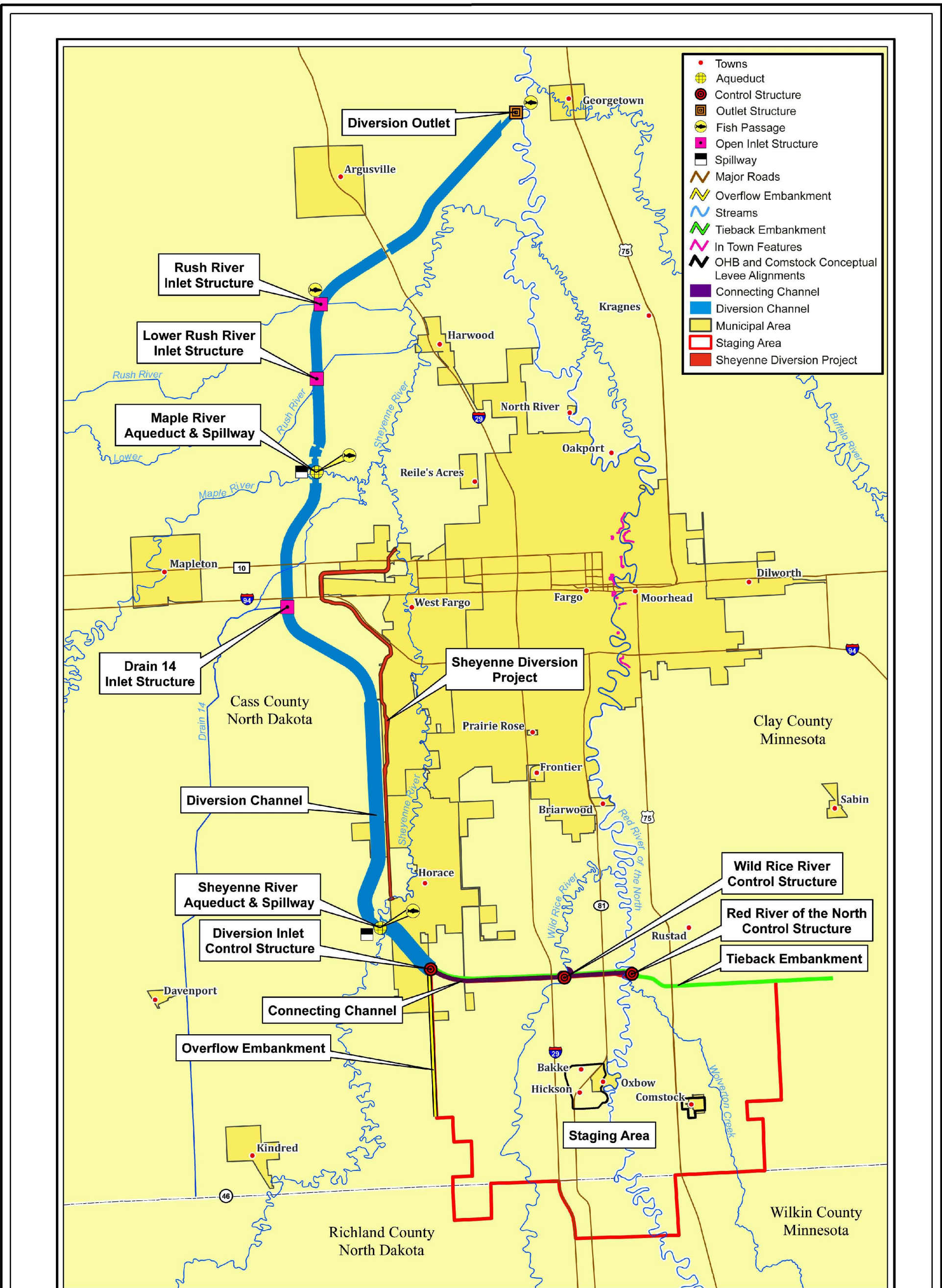
**Proposed Project Location Map**

Created By: ShuJC0243      Date Created: 05/20/2015      Date Exported: 2/17/2016



**Figure 1**

Source: 2014 01 15 Diversion Authority FM\_Projec Area Shapefile

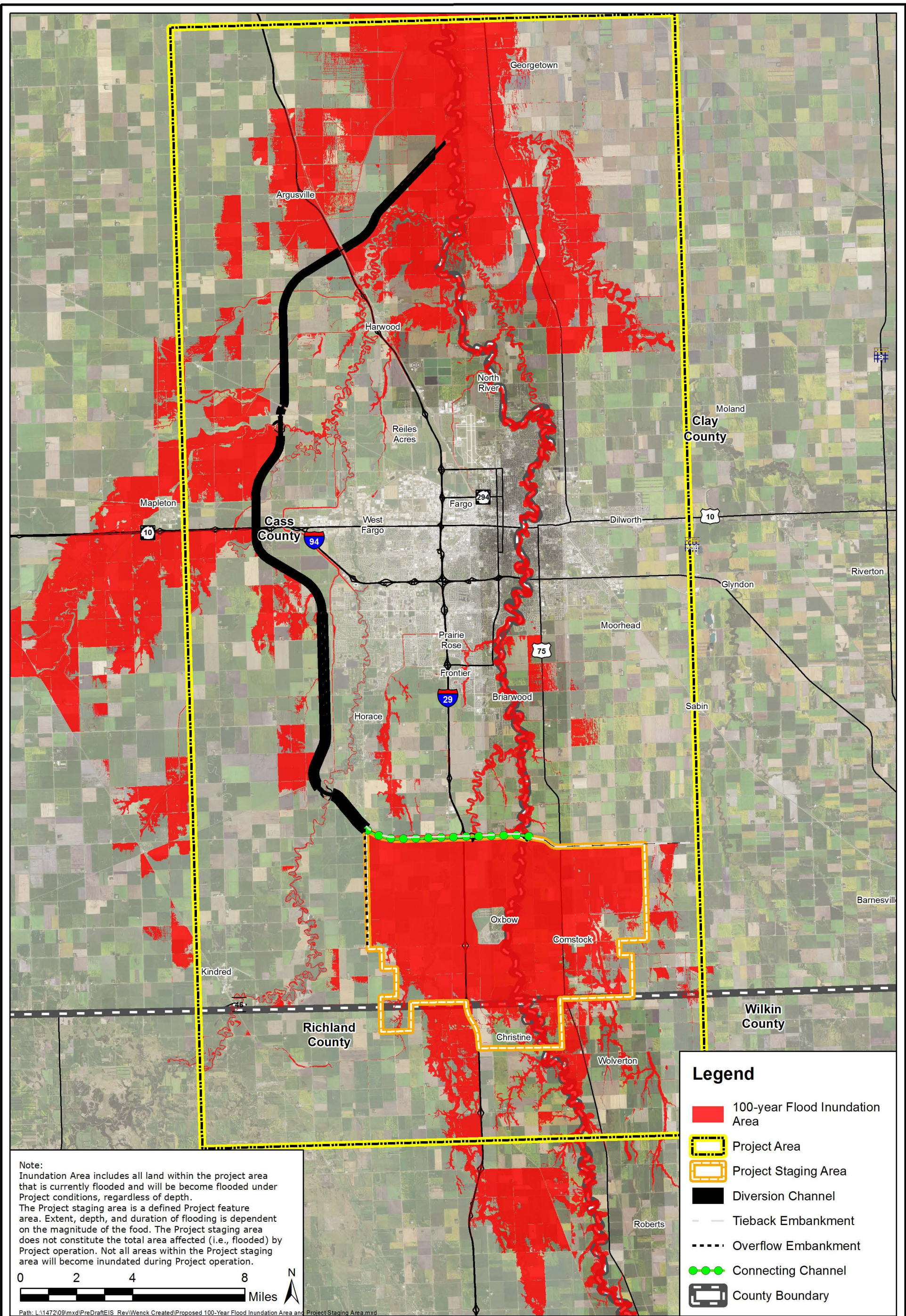



**St. Paul District**  
 GIS CENTER  
**US Army Corps**  
 of Engineers®

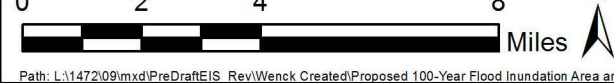
**Project Features - April 2014**  
**Fargo Moorhead Metro Area Flood Risk Management**

0 1 2 4 6 8 Miles

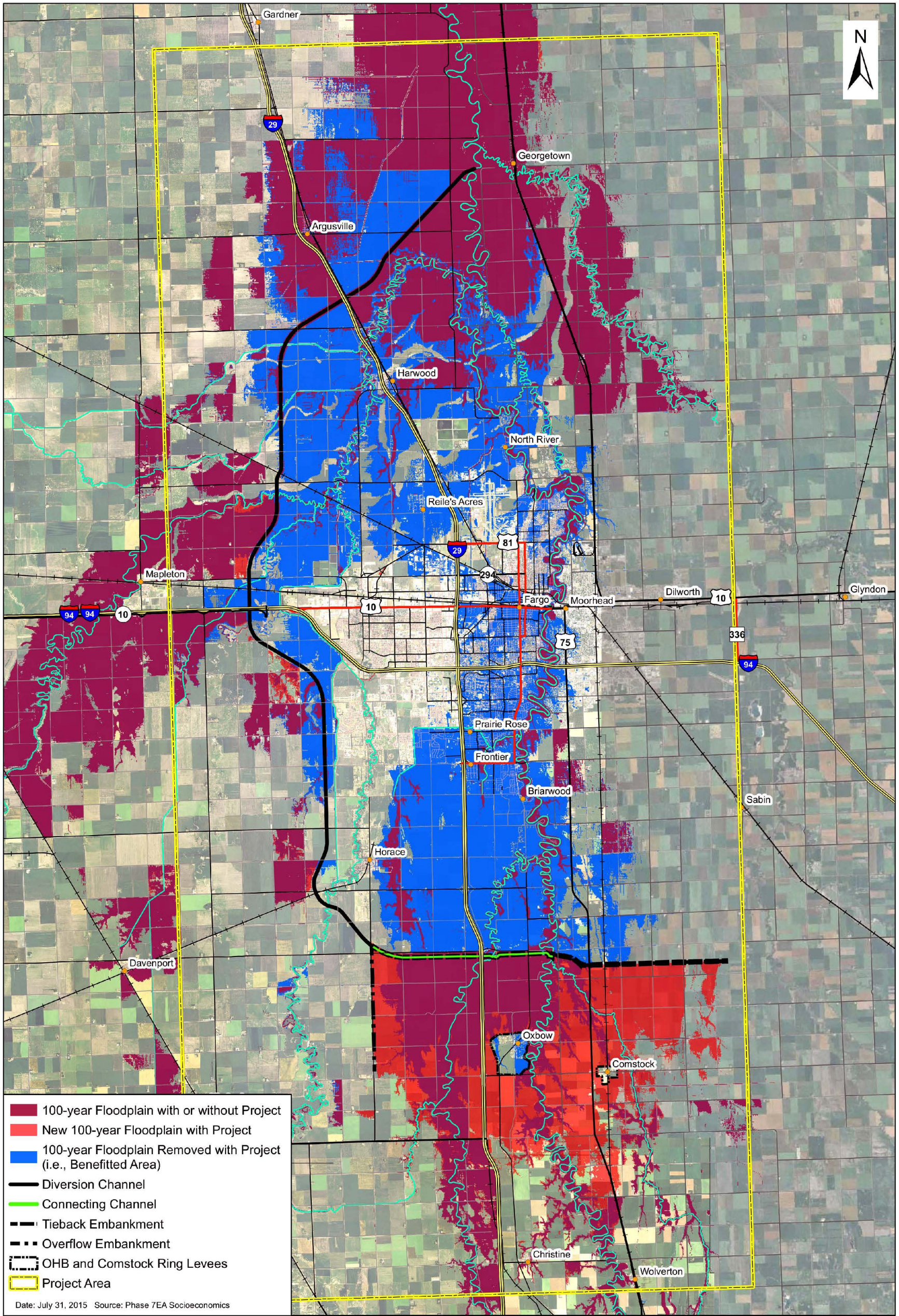




Note:  
 Inundation Area includes all land within the project area that is currently flooded and will become flooded under Project conditions, regardless of depth. The Project staging area is a defined Project feature area. Extent, depth, and duration of flooding is dependent on the magnitude of the flood. The Project staging area does not constitute the total area affected (i.e., flooded) by Project operation. Not all areas within the Project staging area will become inundated during Project operation.



- Legend**
- 100-year Flood Inundation Area
  - Project Area
  - Project Staging Area
  - Diversion Channel
  - Tieback Embankment
  - Overflow Embankment
  - Connecting Channel
  - County Boundary

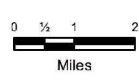


- 100-year Floodplain with or without Project
- New 100-year Floodplain with Project
- 100-year Floodplain Removed with Project (i.e., Benefitted Area)
- Diversion Channel
- Connecting Channel
- Tieback Embankment
- Overflow Embankment
- OHB and Comstock Ring Levees
- Project Area

Date: July 31, 2015 Source: Phase 7EA Socioeconomics

### Phase 7 Proposed Project 100-year Floodplain

Created By: enelson Date Created: 5/9/2014 Date Exported: 8/11/2015 Image: 2012 County NAIP Elevation Data: -  
 Coordinate System: NAD 1983 UTM Zone 14N Datum: North American 1983  
 H:\Fargo\URN\74007438\14\_7438\_006\GIS\VP\DEIS\_100yrMap\Edits.mxd



## FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

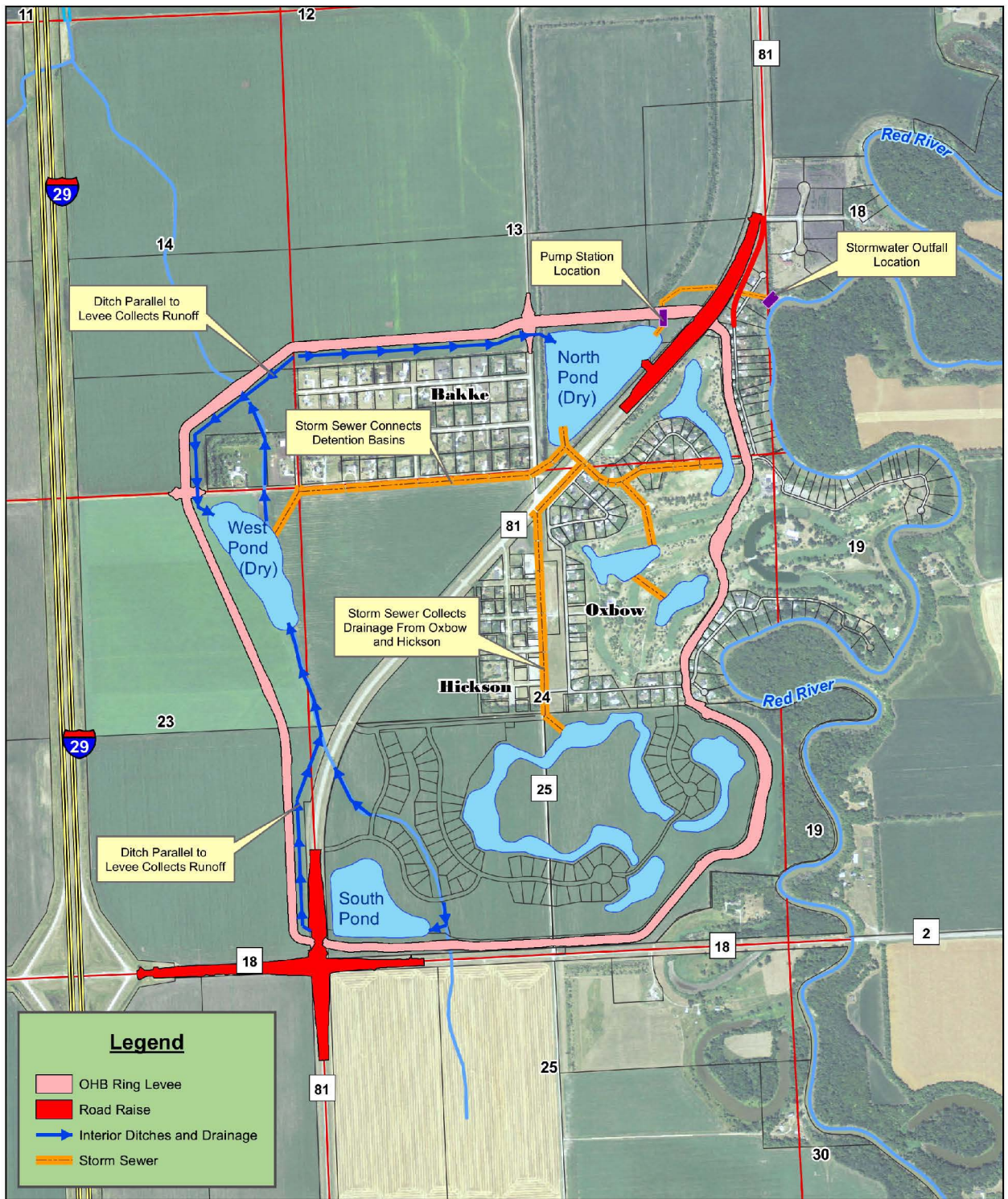
### Proposed Project - 100-year Flood Inundation Area

Created By: ShuJC0243 Date Created: 08/12/2015 Date Exported: 8/12/2015

Figure 4

Sources: Phase 7EA Socioeconomics, July 31 2015

Path: L:\1472\09\mxd\PreDraftEIS\_Rev\Proposed Project - 100-year Flood Inundation Area.mxd



**OHB Ring Levee  
Oxbow, Hickson and Bakke, North Dakota**



Created By: GG/MZ/KMV Date Created: 07/31/13 Date Saved: 07/17/15 Date Plotted: 07/20/15 Date Expired: 07/20/15  
 Plotted By: kyle.volk Parcel Date: 03/01/13 Aerial Image: 2012 County NAIP SIDS Elevation Data: IWI LIDAR  
 Horizontal Datum: NAD 1983 State Plane North Dakota South FIPS 3302 Feet Vertical Datum: NAVD1988  
 T:\Project\15100\15145\401\Map\_OHB\_RingLevee\_MNEIS\_Figure.mxd

Path: L:\1472\09\mxd\PreDraftEIS\_Rev\OxbowHicksonBakke Ring Levee Plan.mxd

FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Oxbow/Hickson/Bakke Ring Levee Plan

Figure 5

Source: HMG, July 2015

Created By: ShuJC243

Date Created: 07/20/2015

Date Exported: 8/12/2015



Z:\7438\7438A12\_7438\_009\PH5 Comstock\CAD\SITE PLAN 6-17-13.dwg - 11x17, 8/15/2013 10:44 AM (JWolpin)

MAXIMUM PHASE 7.0 1% CHANCE EVENT WSE=922.30  
 MAXIMUM PHASE 7.0 0.2% CHANCE EVENT WSE=922.30

No.	Revision	Date	By

**DRAFT CONCEPT**



Drawn by  
JMW  
Checked by  
RGE

Date  
6-20-13  
Scale  
AS SHOWN

FM AREA DIVERSION  
 PROPOSED CITY OF COMSTOCK LEVEE  
 COMSTOCK, MN

PROPOSED LEVEE  
 ALIGNMENT  
 PROJECT NO. 7438-009 PH2

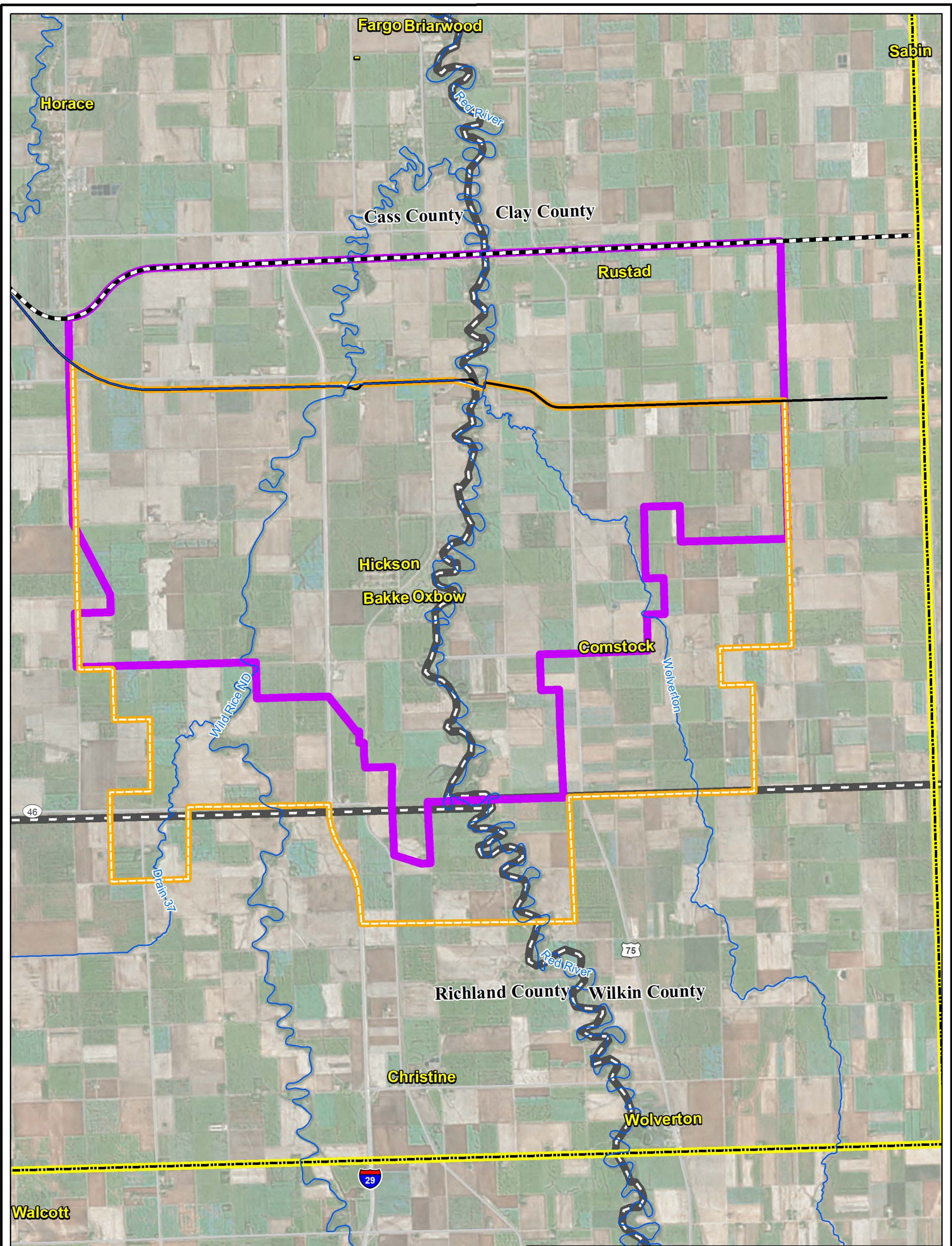
Path: L:\1472\09\mxd\PreDraftEIS\_Rev\Comstock Ring Levee Preliminary Conceptual Design.mxd

FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Comstock Ring Levee Preliminary Conceptual Design

Figure 6

Source: HMG Tech Memo City fo Comstock Flood Control Levee, July 2013, Figure 4



<p><b>Legend</b></p> <p> Streams/Rivers</p> <p> Northern Alignment</p> <p> Project Area</p> <p> Northern Alignment Staging Area</p> <p> Project Alignment</p> <p> Major Roads</p> <p> Project Staging Area</p> <p> County Boundary</p>	
--	--

Aerial Photograph (Source: ESRI)

0 0.75 1.5 3 Miles

Path: L:\1472\09\mxd\PreDraft\EIS\_Rev\Wenck\_Created\Proposed Project and Northern Alignment Staging Areas.mxd

Source: Esri, AEX, Getm

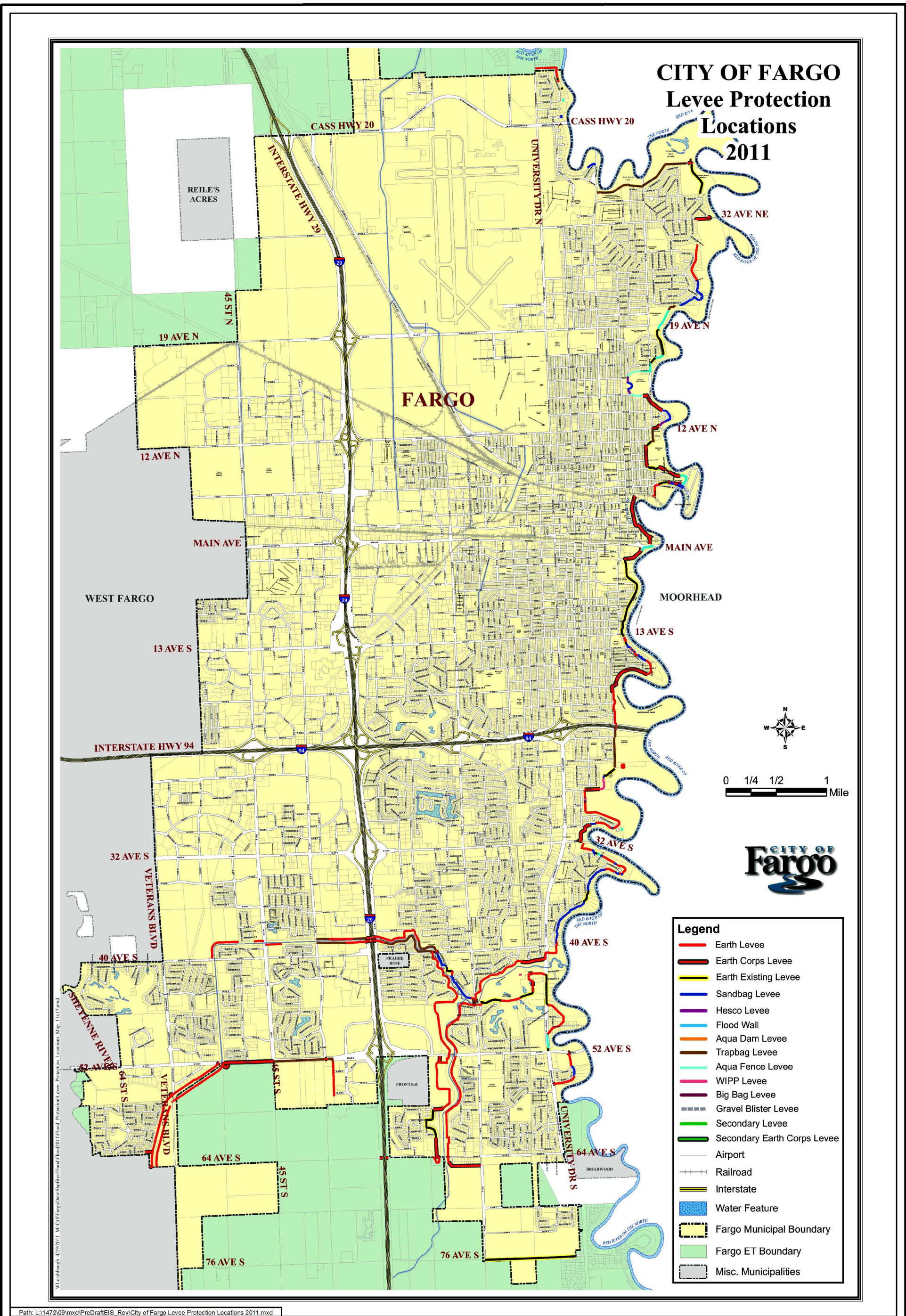
**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

Proposed Project and Northern Alignment Staging Areas

Created By: ShuJC0243 Date Created: 05/22/2015 Date Exported: 2/17/2016

**Figure 7**

Source: 2014 1202 Diversion Authority Northern\_ALT\_Staging\_Area Shapefile; 2012 11 SEAW Figure 4 Project Features Shapefile.



FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

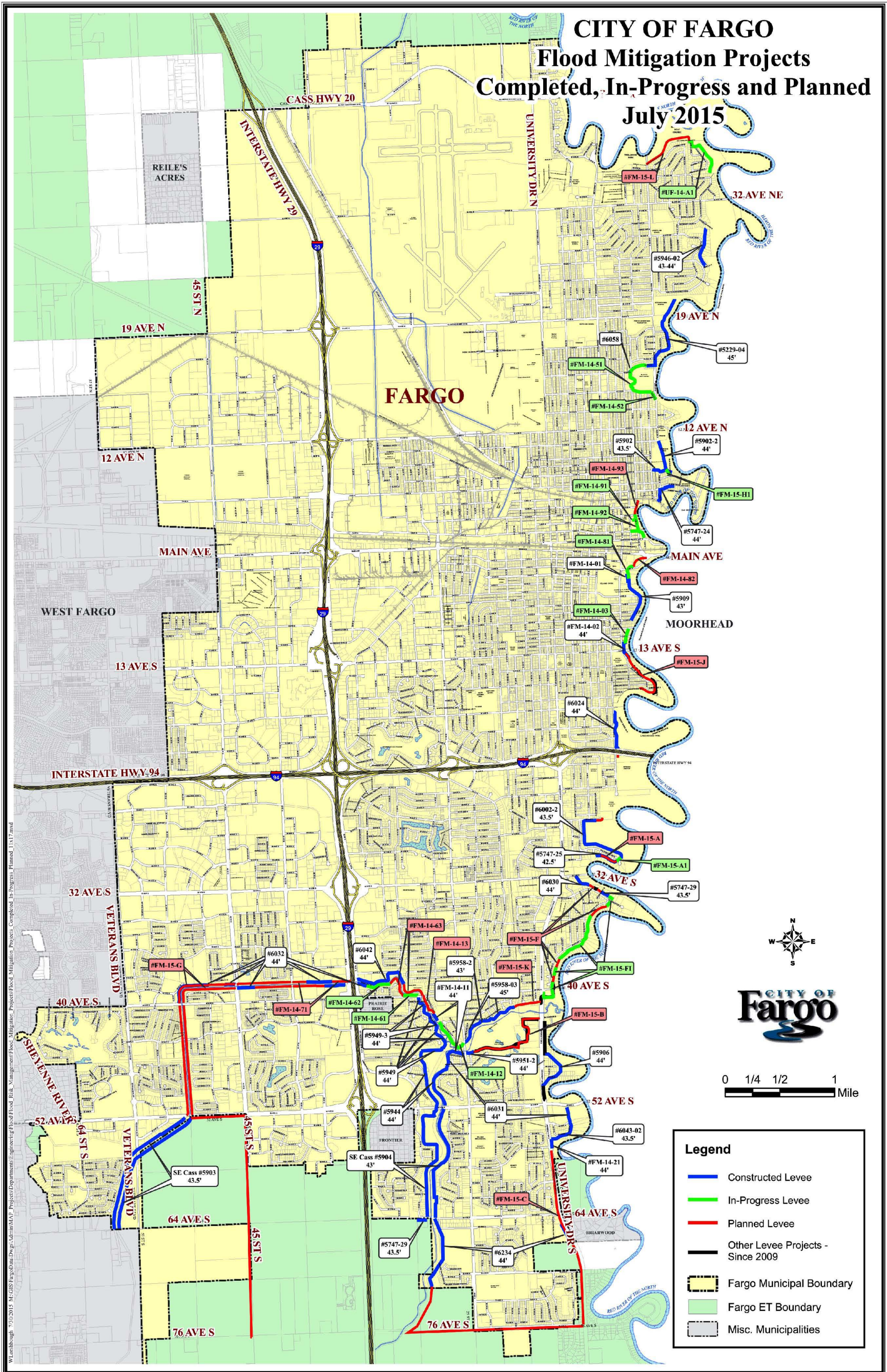
Figure 8

City of Fargo: Levee Protection Locations 2011

Source: City of Fargo, Levee Protection Locations, 2011

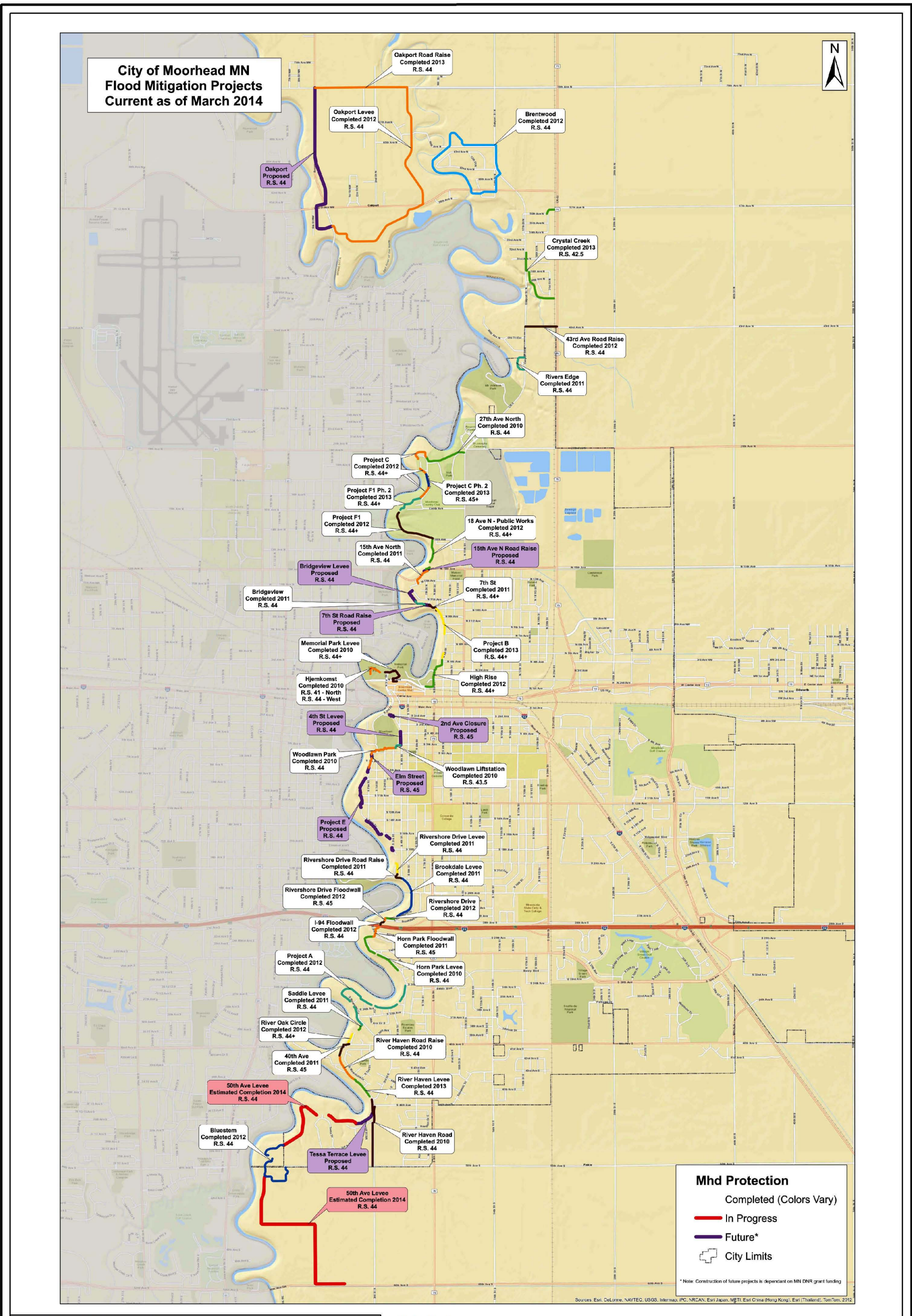


# CITY OF FARGO Flood Mitigation Projects Completed, In-Progress and Planned July 2015



**Legend**

- Constructed Levee
- In-Progress Levee
- Planned Levee
- Other Levee Projects - Since 2009
- Fargo Municipal Boundary
- Fargo ET Boundary
- Misc. Municipalities



Path: L:\1472\09\mxd\PreDraft\EIS\_Rev\City of Moorhead Flood Damage Reduction Projects Completed, In Progress, and Planned as of March 2014.mxd

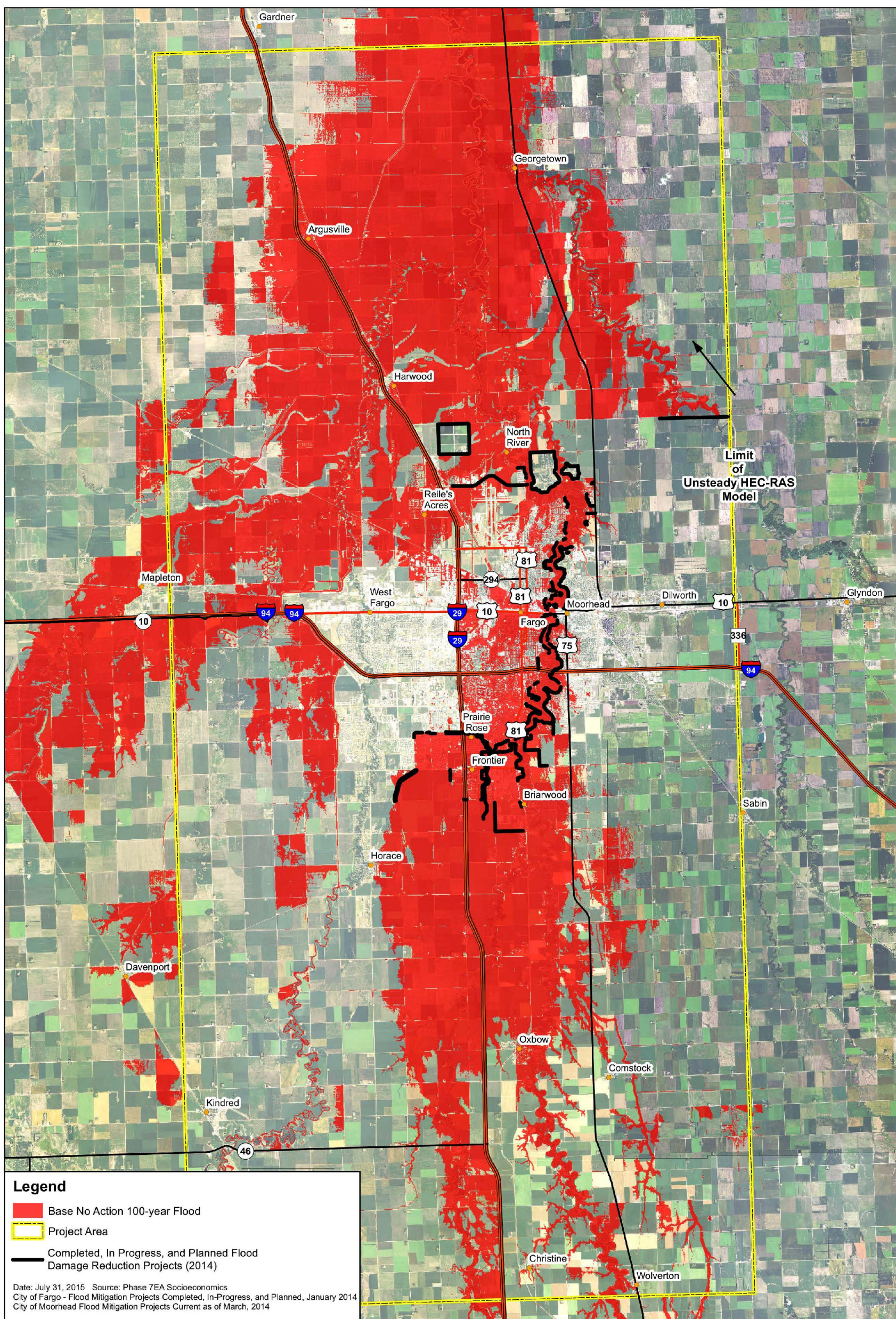
**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

**City of Moorhead: Flood Damage Reduction Projects:  
Completed, In Progress, and Planned as of March 2014**

Created By: ShuJC0243 Date Created: 05/14/2015 Date Exported: 8/12/2015

**Figure 10**

Source: City of Moorhead, Flood Mitigation Projects Current as of March 2014



**Legend**

- Base No Action 100-year Flood
- Project Area
- Completed, In Progress, and Planned Flood Damage Reduction Projects (2014)

Date: July 31, 2015 Source: Phase 7EA Socioeconomics  
 City of Fargo - Flood Mitigation Projects Completed, In-Progress, and Planned, January 2014  
 City of Moorhead Flood Mitigation Projects Current as of March, 2014

**Base No Action Existing Conditions Under the 100-year Flood**

Created By: enelson Date Created: 7/25/2014 Date Exported: 8/11/2015 Image: 2012 County NAIP Elevation Data: -  
 Coordinate System: NAD 1983 ELM Zone 14N FUS Datum: North American 1983  
 H:\Fargo\JBN\7400\7438\14\_7438\_006\GIS\LeveeMaps\_Zoomout\_FloodPoys.mxd



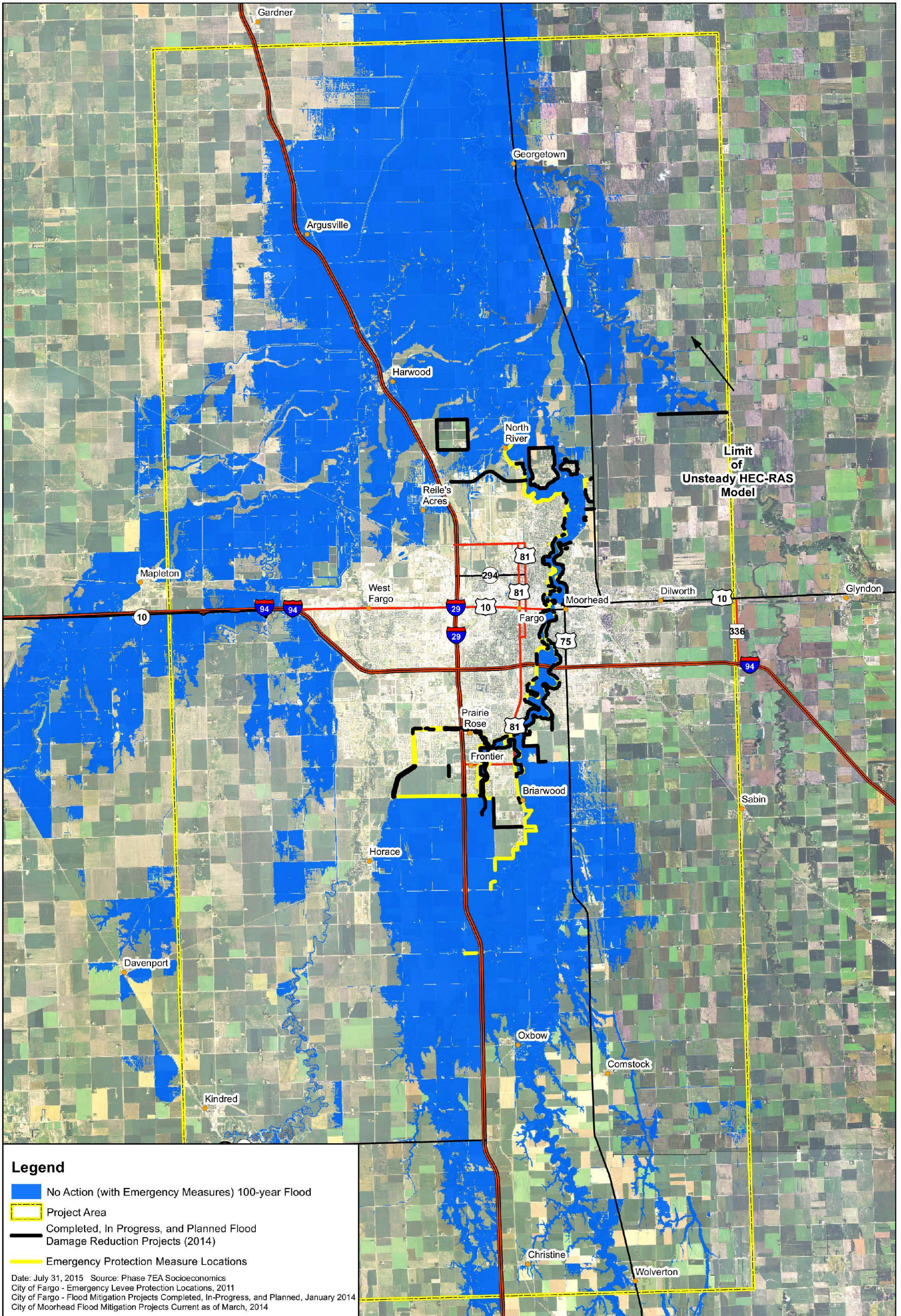
Path: L:\1472\09\mxd\PreDraftEIS\_Rev\Base No Action Alternative 100-year Flood Inundation Area.mxd

**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

**Base No Action Alternative 100-year Flood Inundation Area**

Figure 11

Source: Phase 7EA Socioeconomics, July 31 2015  
 City of Fargo - Flood Mitigation Projects Completed in-Progress and Planned January 2014  
 City of Moorhead Flood Mitigation Projects Current as of March, 2014



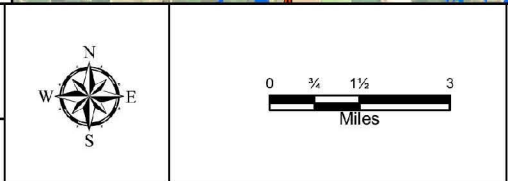
**Legend**

- No Action (with Emergency Measures) 100-year Flood
- Project Area
- Completed, In Progress, and Planned Flood Damage Reduction Projects (2014)
- Emergency Protection Measure Locations

Date: July 31, 2015 Source: Phase 7EA Socioeconomics  
 City of Fargo - Emergency Levee Protection Locations, 2011  
 City of Fargo - Flood Mitigation Projects Completed, In-Progress, and Planned, January 2014  
 City of Moorhead Flood Mitigation Projects Current as of March, 2014

**No Action Alternative  
 (with Emergency Measures)  
 Under the 100-year Flood**

Created By: oneison Date Created: 7/29/2014 Date Exported: 8/11/2015 Image: 2012 County NAIP Elevation Data: -  
 Coordinate System: NAD 1983 BLM Zone 14N FUS Datum: North American 1983  
 H:\Fargo\JBN7400\7438\14\_7438\_005\GIS\Levee\Map\Zoomout\_FloodPolys.mxd



Path: L:\1472\09\mxd\PreDraft\EIS\_Rev\No Action Alternative with Emergency Measures 100year Inundation Area.mxd

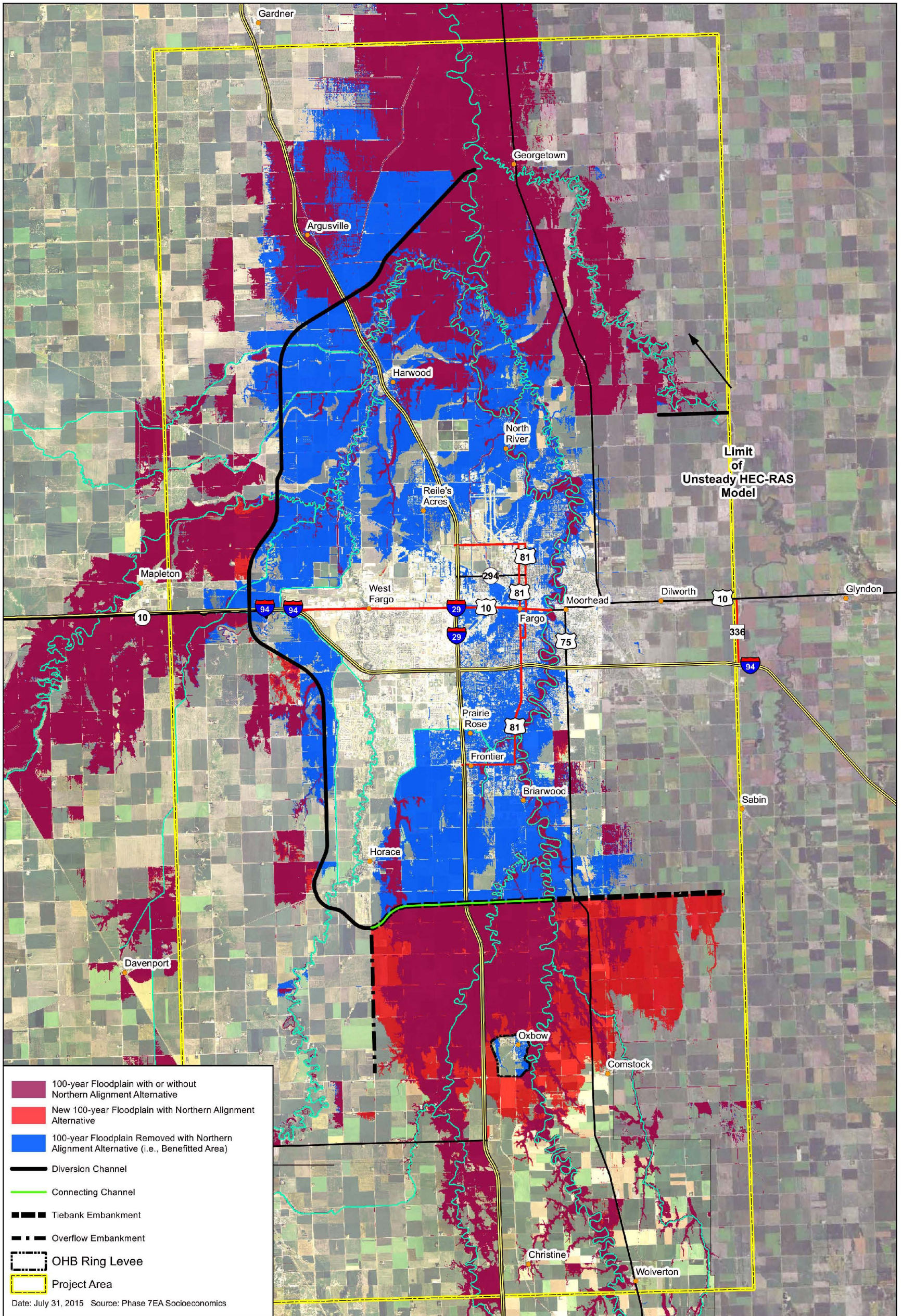
**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

**No Action Alternative (with Emergency Measures)  
 100-year Flood Inundation Area**

Created By: ShuJC0243 Date Created: 08/12/2015 Date Exported: 8/13/2015

**Figure 12**

Source: Phase 7EA Socioeconomics, July 31 2015  
 City of Fargo - Emergency Levee Protection Locations, 2011  
 City of Fargo - Flood Mitigation Projects Completed, In-Progress, and Planned, January 2014  
 City of Moorhead Flood Mitigation Projects Current as of March, 2014



- 100-year Floodplain with or without Northern Alignment Alternative
  - New 100-year Floodplain with Northern Alignment Alternative
  - 100-year Floodplain Removed with Northern Alignment Alternative (i.e., Benefitted Area)
  - Diversion Channel
  - Connecting Channel
  - Tiebank Embankment
  - Overflow Embankment
  - OHB Ring Levee
  - Project Area
- Date: July 31, 2015 Source: Phase 7EA Socioeconomics

**Northern Alignment Alternative  
100-year Floodplain**



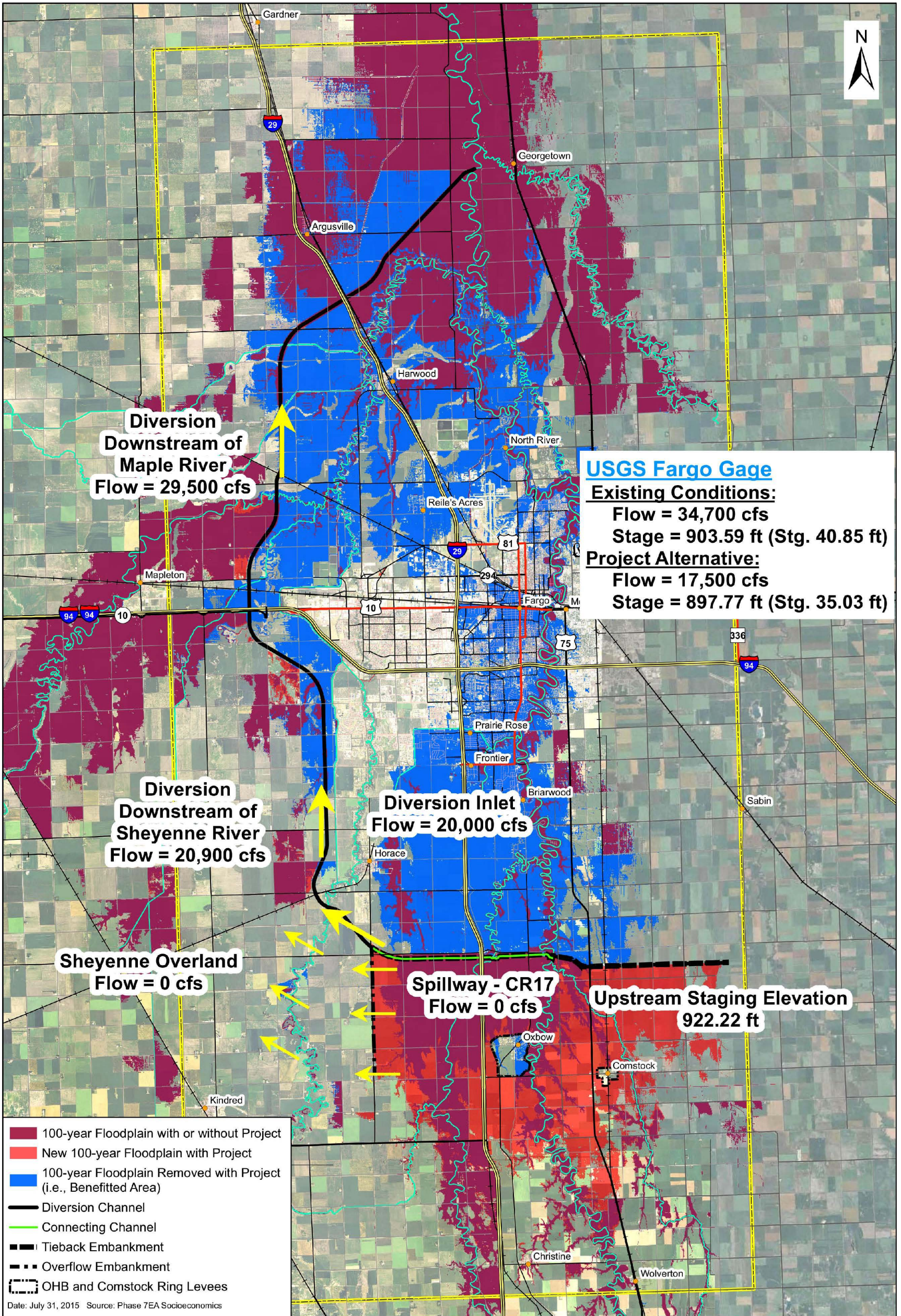
Created By: enelson Date Created: 5/9/2014 Date Exported: 8/11/2015 Image: 2012 County NAIP Elevation Data: -  
Coordinate System: NAD 1983 BLM Zone 14N ITUS Datum: North American 1983  
H:\Fargo\UBN\74007438\14\_7438\_00\GIS\MNDNR\_Maps\_PDEISE\erle.mxd

**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

Figure 13

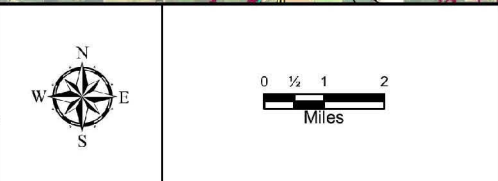
**Northern Alignment Alternative  
100-year Flood Inundation Area**

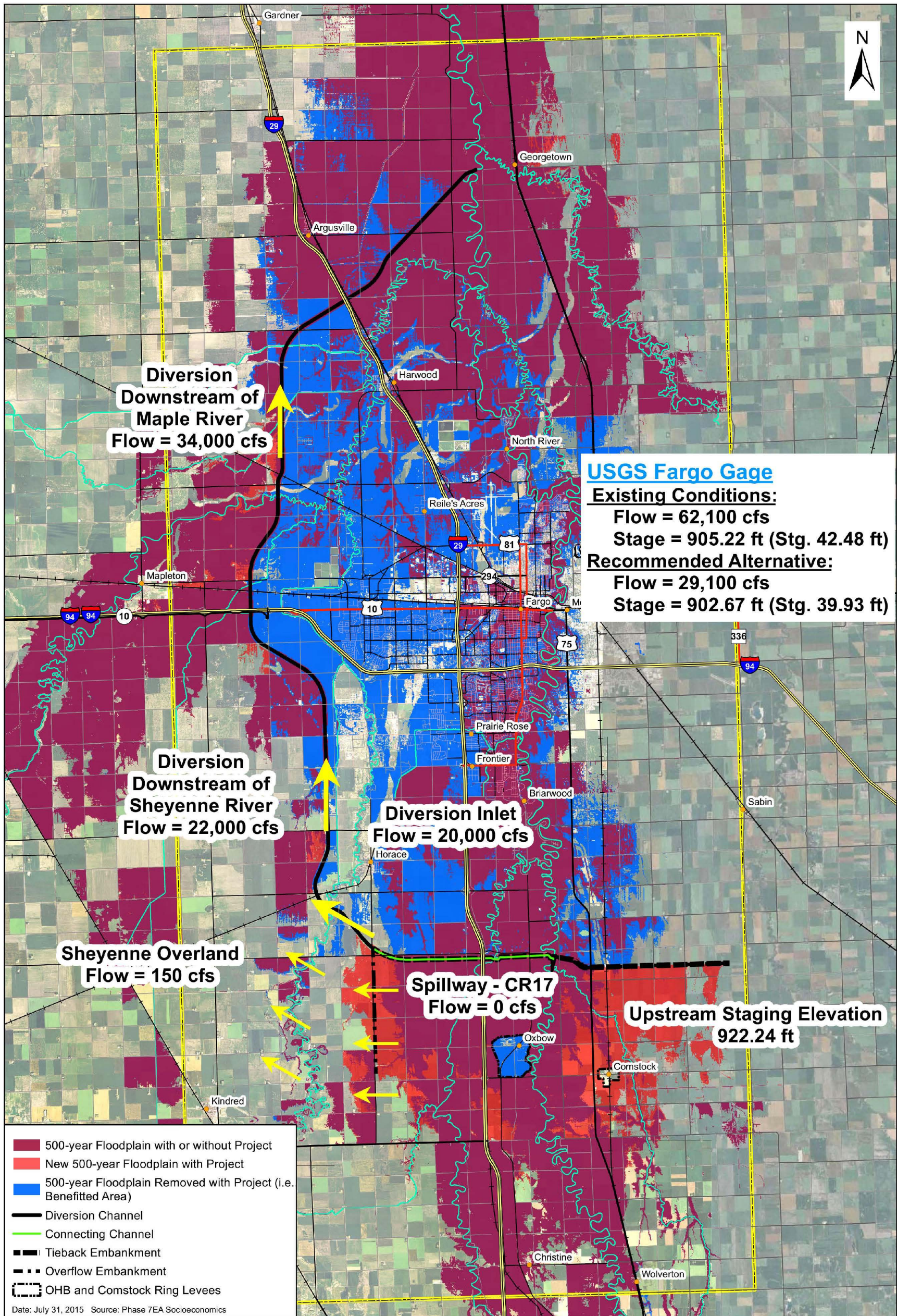
Source: Phase 7EA Socioeconomics, July 31 2015



**Proposed Project**  
**100-year Flood Inundation, Flow, and Stage Elevation**

Created By: enelson Date Created: 5/9/2014 Date Exported: 8/11/2015 Image: 2012 County NAIP Elevation Data: -  
 Horizontal Datum: NAD 1983 UTM Zone 14N Vertical Datum: North American 1983  
 H:\Fargo\BNI\7400\7438\14\_7438\_006\GIS\SP\DEIS\_100yrDischargeMapEdits.mxd

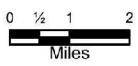




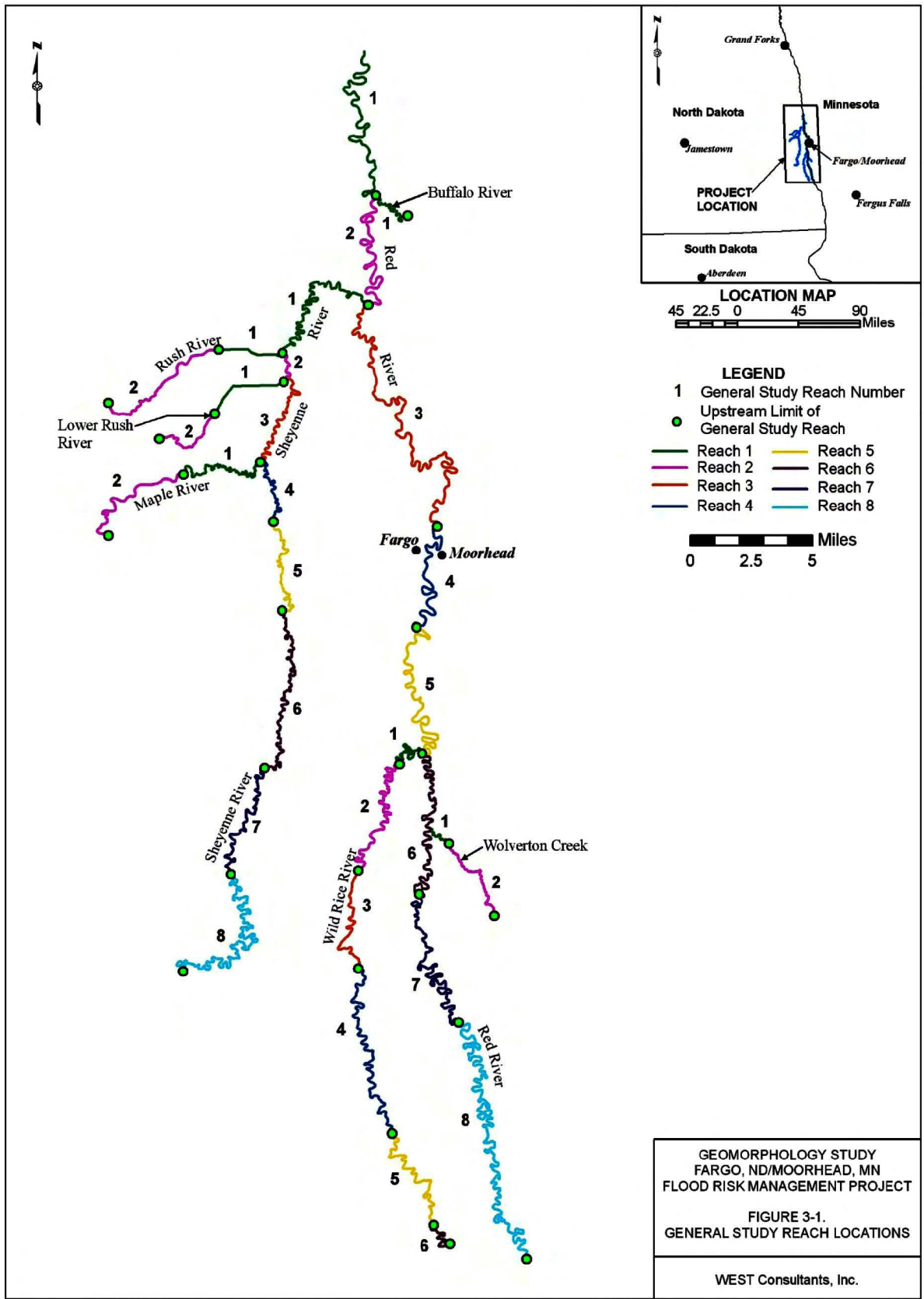
**USGS Fargo Gage**  
**Existing Conditions:**  
 Flow = 62,100 cfs  
 Stage = 905.22 ft (Stg. 42.48 ft)  
**Recommended Alternative:**  
 Flow = 29,100 cfs  
 Stage = 902.67 ft (Stg. 39.93 ft)

- 500-year Floodplain with or without Project
  - New 500-year Floodplain with Project
  - 500-year Floodplain Removed with Project (i.e. Benefitted Area)
  - Diversion Channel
  - Connecting Channel
  - Tieback Embankment
  - Overflow Embankment
  - OHB and Comstock Ring Levees
- Date: July 31, 2015 Source: Phase 7EA Socioeconomics

**Proposed Project**  
**500-year Flood Inundation, Flow, and Stage Elevations**



Created By: enelson Date Created: 5/9/2014 Date Exported: 8/11/2015 Image: 2012 County NAIP Elevation Data: -  
 Horizontal Datum: NAD 1983 UTM Zone 14N Vertical Datum: North American 1983  
 H:\Fargo\BNI\7400\7438\14\_7438\_006\GIS\PEIS\_500yr\DischargeMapEdit.mxd



Path: I:\1472\09\mxd\PreDraft\EIS\_Rev\Stream Reaches Evaluated In Geomorphology Report.mxd

FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

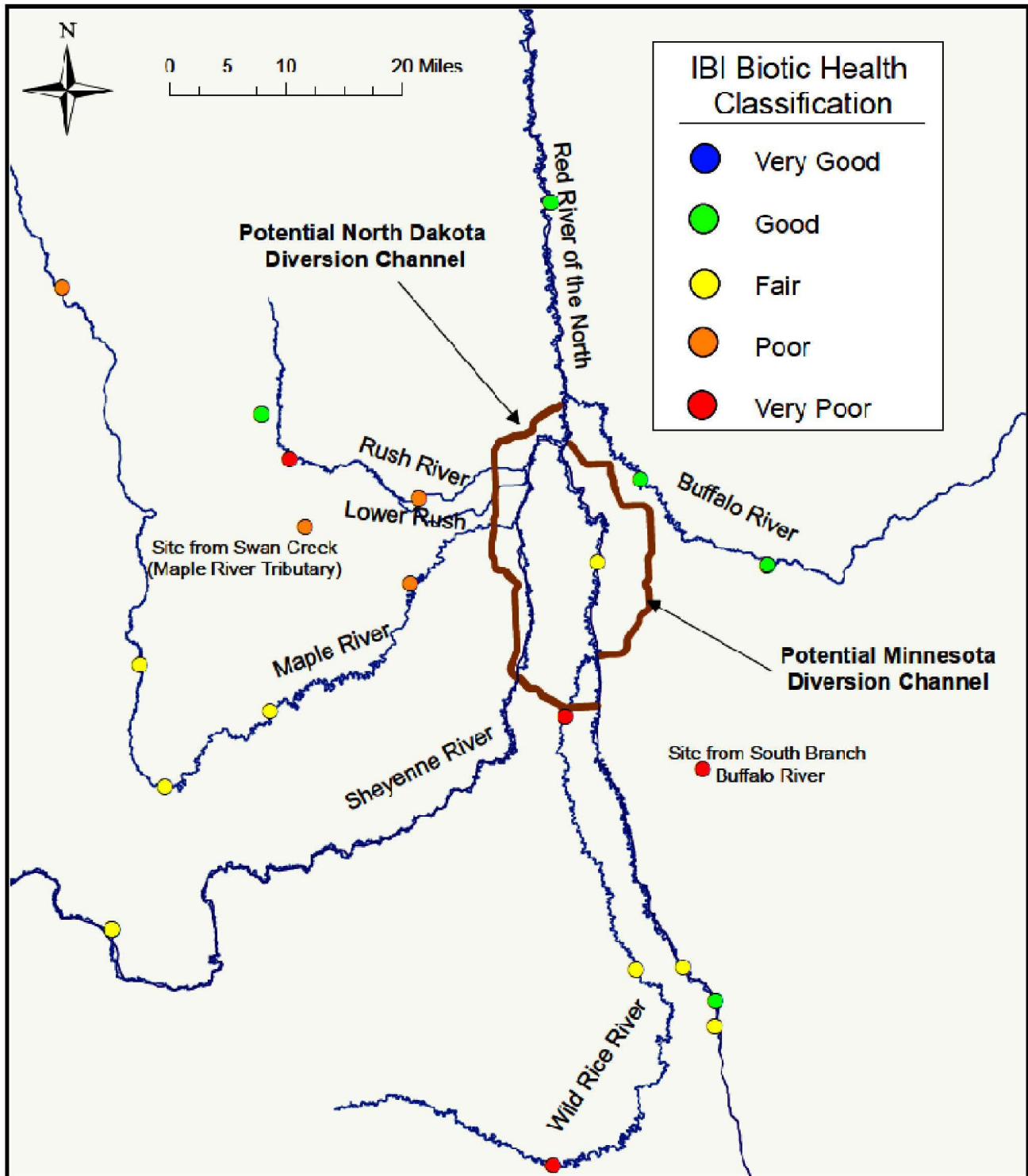
Stream Reaches Evaluated In Geomorphology Report

Created By: ShuJC0243 Date Created: 08/12/2015 Date Exported: 8/12/2015

Figure 16

Source: USACE Geomorphology Report, WEST Consultants, Inc., October 2012  
IBI - Index of Biotic Integrity





Path: L:\1472109\mxd\PreDraftEIS\_Rev\United States Environmental Protection Agency Indexes of Biotic Integrity Sites With Quality Ratings.mxd

FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

United States Environmental Protection Agency  
Index of Biotic Integrity Sites With Quality Ratings

Created By: ShuJC0243

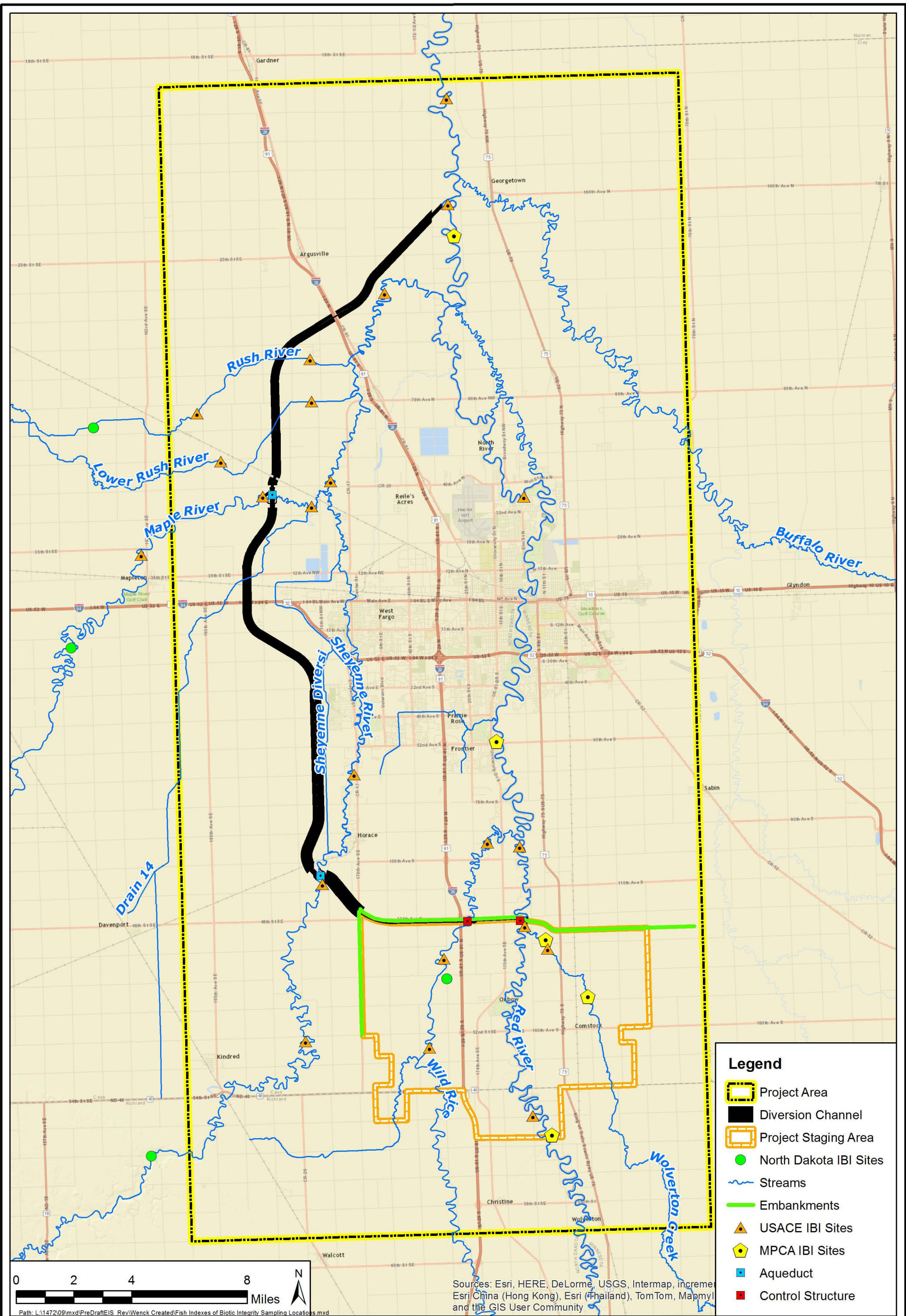
Date Created: 05/18/2015

Date Exported: 8/13/2015

Figure 17

Source: USACE FFREIS, July 2011, Figure 47

IBI - Index of Biotic Integrity



FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Fish Index of Biotic Integrity Sampling Locations

Created By: ShuJC0243 Date Created: 06/03/2015 Date Exported: 2/17/2016



Figure 18

Source: 2014 0709 MNDNR fargomoorheadmetrostudy.gdb and FargoEISDiversionData.gdb  
IBI - Index of Biotic Integrity



FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Red River Control Structure Fill Area

Figure 19

Source: USACE Supplemental EA, Attachment 1, Sept. 2013, Figure 2  
 OHWM - Ordinary High Water Mark

# Wild Rice River Control Structure Fill Area



## Legend

### LAYER

- Estimated Fill Within Assumed OHWM
- Estimated Excavation Within Assumed OHWM
- Area Within Assumed OHWM Possibly Modified by Project

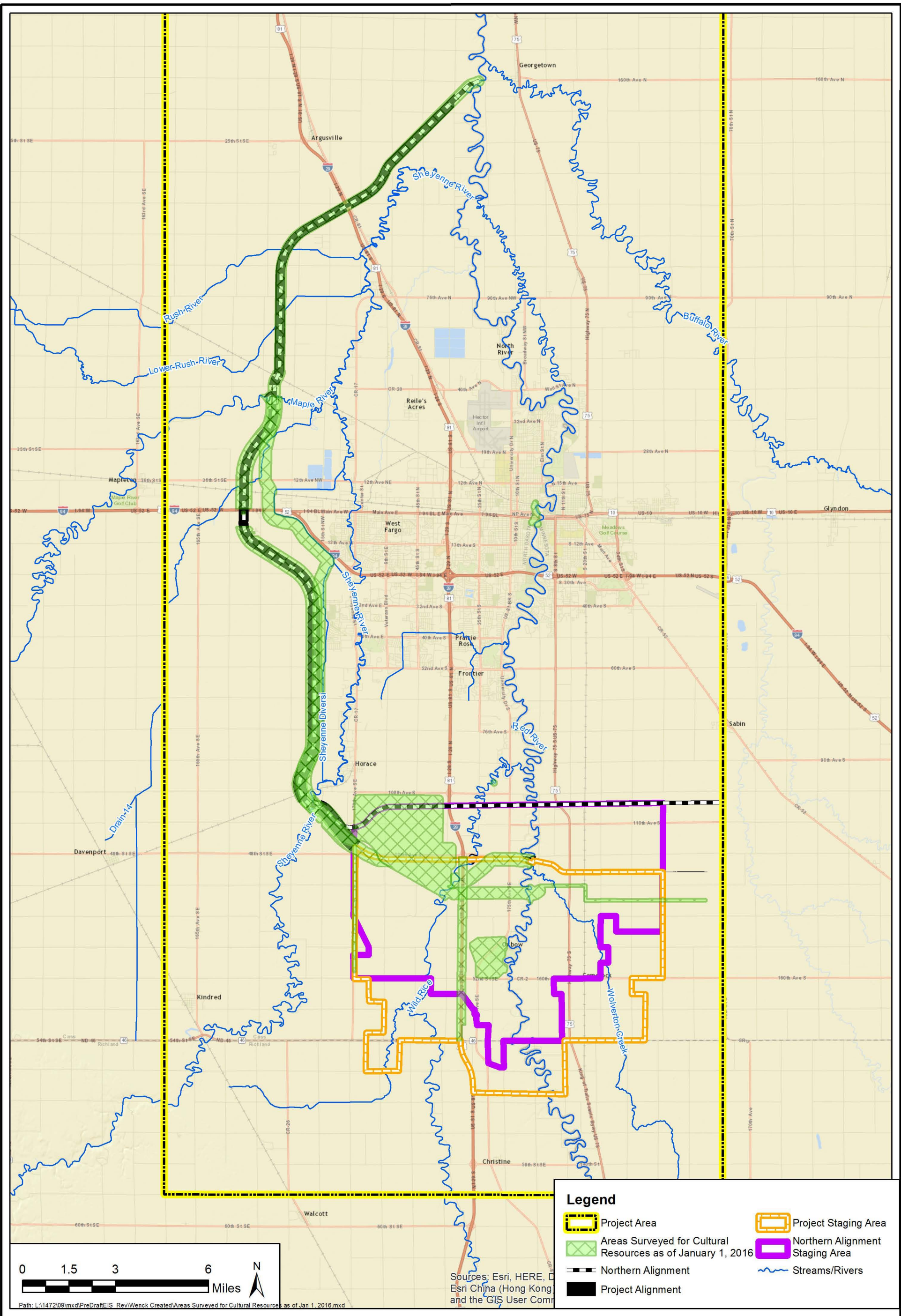
Path: L:\147209\mxd\PreDraftEIS\_RevWild Rice River Control Structure Fill Area.mxd

FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Wild Rice River Control Structure Fill Area

Figure 20

Source: USACE Supplemental EA, Attachment 1, Sept. 2013, Figure 3  
OHWM - Ordinary High Water Mark



**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

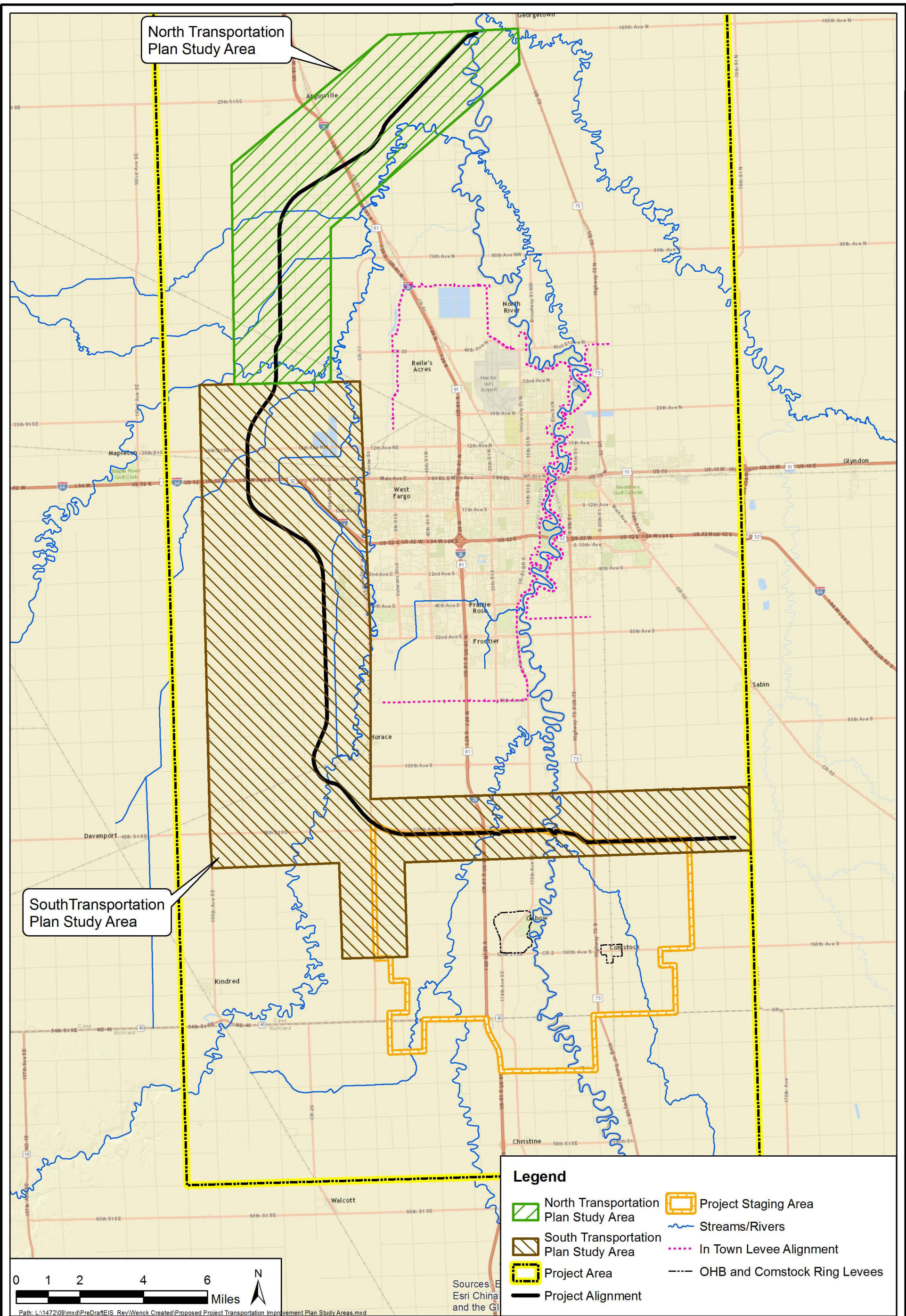
**Areas Surveyed for Cultural Resources as of January 1, 2016**

Created By: ShuJC0243 Date Created: 03/28/2016 Date Exported: 4/1/2016

**MNDNR**

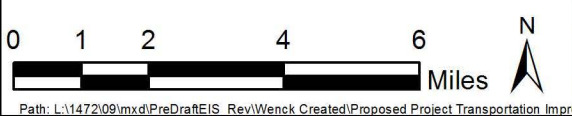
**Figure 21**

Source: 2014 1208 USACE CultSurCompletedPly Shapefile, 2016 0201 SurveysCompletedAsOf1January2016 Shapefile, current as of January 1, 2016



North Transportation  
Plan Study Area

South Transportation  
Plan Study Area

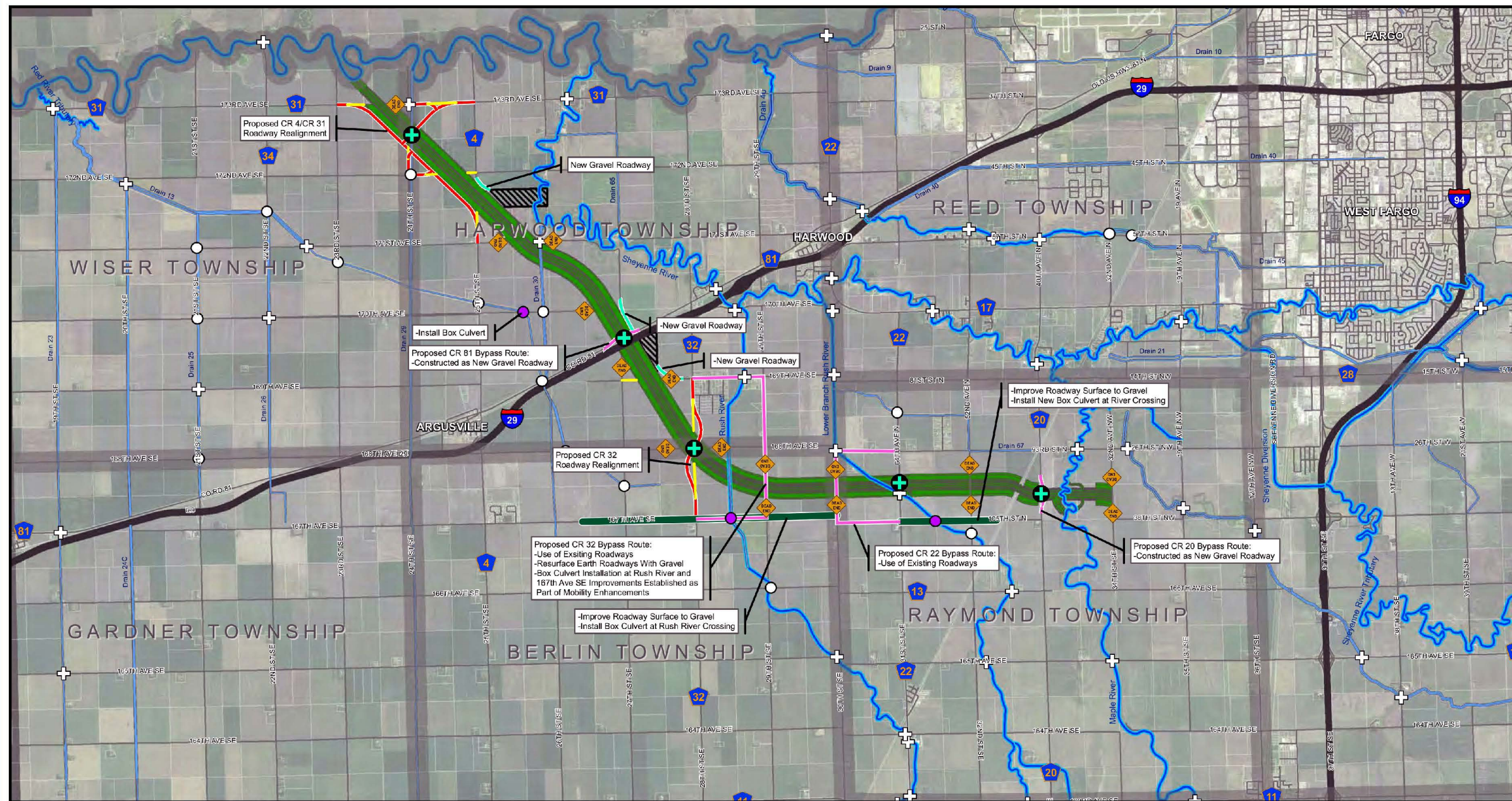


**Legend**

- North Transportation Plan Study Area
- South Transportation Plan Study Area
- Project Area
- Project Alignment
- Project Staging Area
- Streams/Rivers
- In Town Levee Alignment
- OHB and Comstock Ring Levees

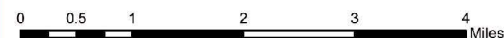
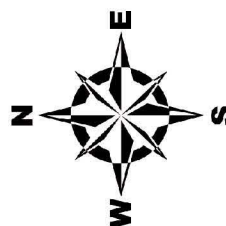
Sources: Esri, DeLorme, Garmin, and the GIS User Community





### Proposed Improvement Plan

North Red River Diversion Master Transportation Plan



Legend	
	Cutoff Roads
	Proposed Diversion Crossings
	Proposed Box Culverts
	Existing Low Flow Crossings
	Existing Bridges
	Construction Bypass Routes
	Mobility Improvement (Earth Surface to Gravel Surface)
	Accessibility Improvement
	Proposed Roadway Realignment
	Roadway Removal
	Drains
	Rivers
	Interstate Highway
	Proposed Diversion Alignment
	Roadway Centerlines
	Parcels Without Access*
	Parcel Lines

\*Does not include property that can be accessed by adjoining parcels with matching owner

**Kadmas  
Lee &  
Jackson**  
Engineers Surveyors  
Planners

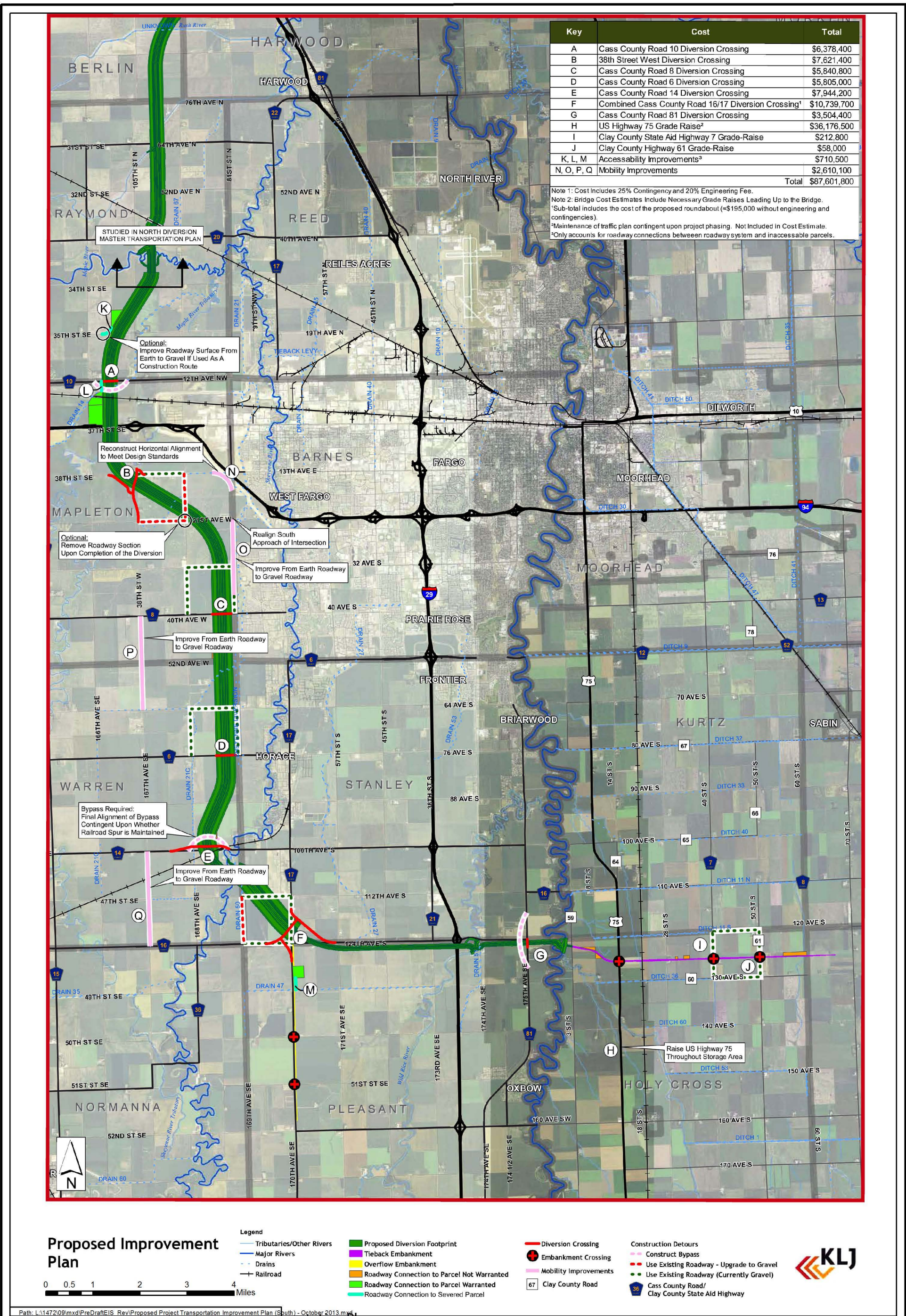
Path: L:\1472\09\mxd\PreDraft\EIS - Rev\Proposed Project Transportation Improvement Plan (North) - March 2012.mxd

## FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

### Proposed Project Transportation Improvement Plan (North) - March 2012

Figure 23

Source: KLJ, North Red River Diversion Master Transportation Plan, March 2012, Figure 4



FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

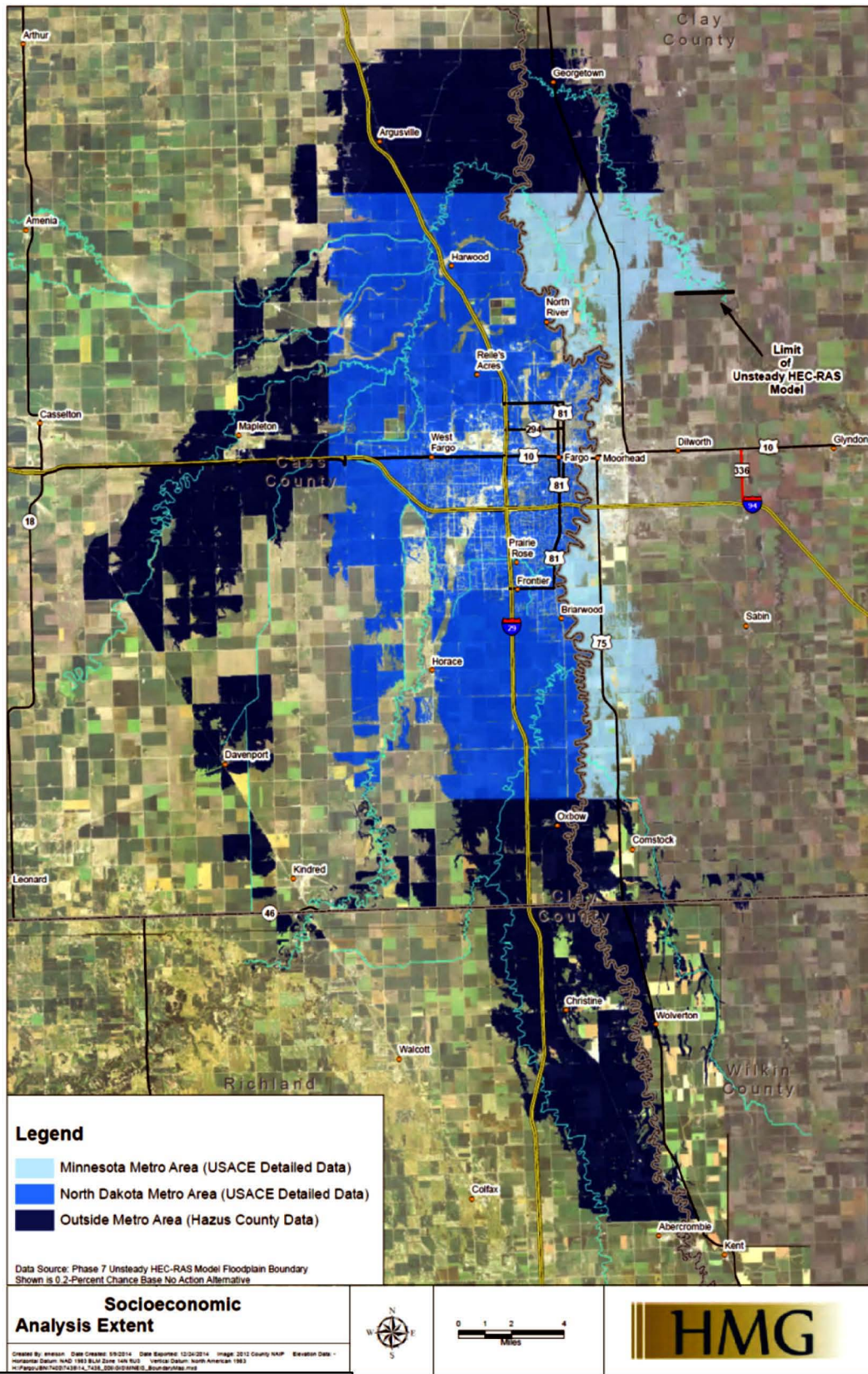
Proposed Project Transportation Improvement Plan (South) - October 2013

Created By: ShuJC0243 Date Created: 05/19/2015 Date Exported: 8/12/2015

Figure 24

Source: KLJ, South Red River Diversion Master Transportation Plan, Oct. 2013, Figure 5



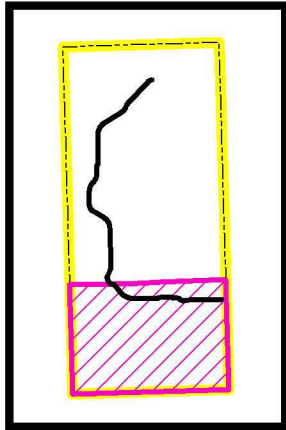


FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Socioeconomic Report Study Area

Figure 25

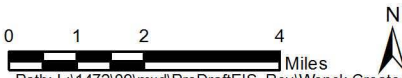
Source: Diversion Authority, Final Socioeconomics Report, March 2015, Figure 1



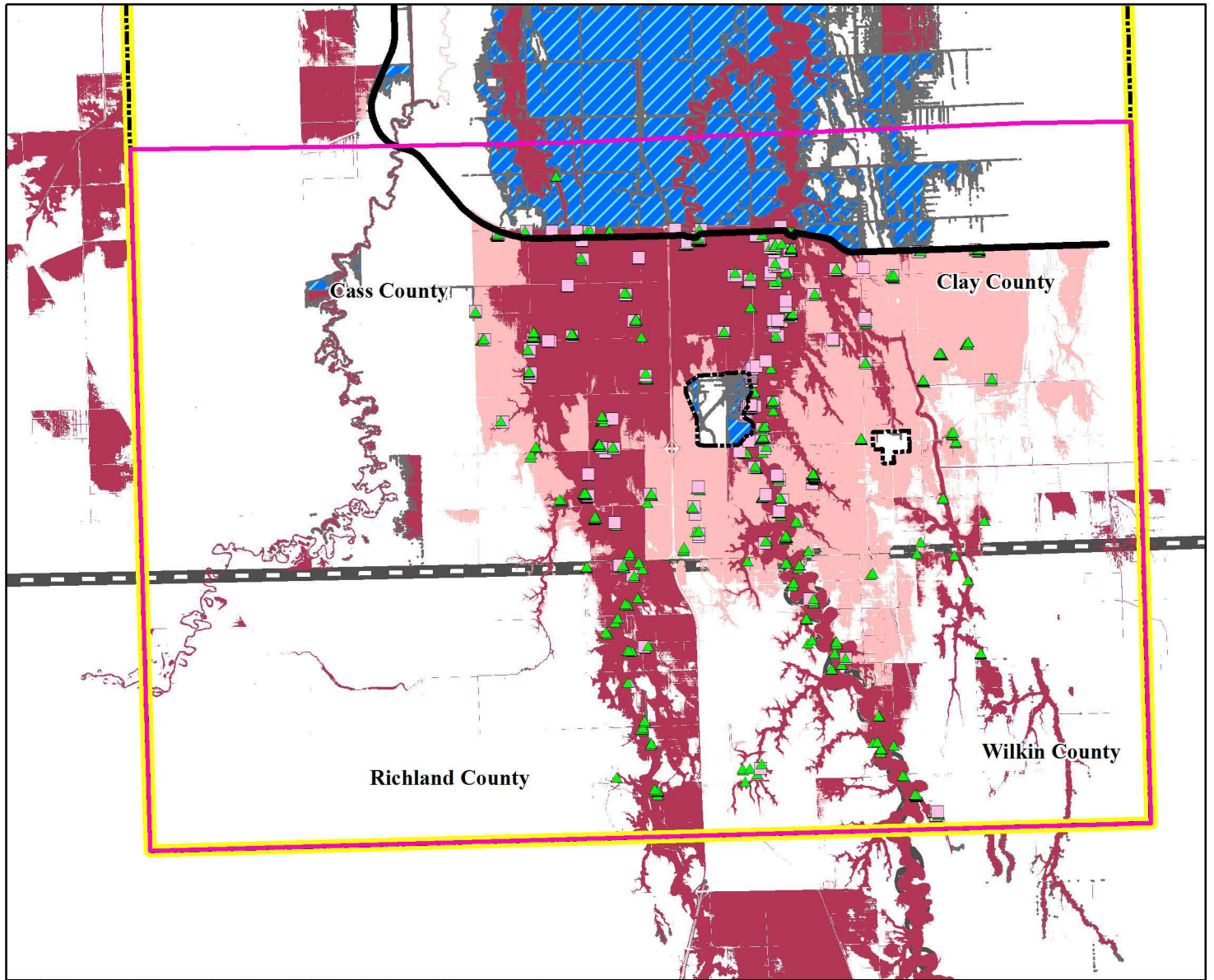
**Legend**

-  Project Area
-  MNDNR Structure/Parcel Study Area
-  OHB and Comstock Ring Levee
-  County Boundary
-  Project Alignment
-  Impacted Non-Residential Structures
-  Impacted Residential Structures
-  100-year Floodplain with or without Project
-  New 100-year Floodplain with Project
-  100-year Floodplain Removed with Project (i.e. Benefitted Area)

Note:  
Structures included within the analysis are those found within the counties identified and limited to the upstream inundation area. Impact is not defined by a set flood depth. If structure is impacted by water by any extent, it is considered an impact. Structures impacted are not differentiated by currently inundated and newly inundated structures.



Path: L:\1472\09\mxd\PreDraftEIS\_Rev\Wenck Created\Proposed Project MNDNR Structure Count Analysis 100-Year Flood Impacted Structures .mxd



**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

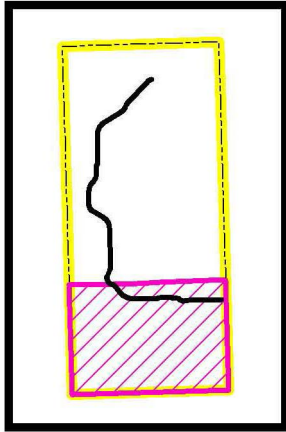
**Proposed Project - MNDNR Structure Count Analysis  
100-Year Flood Impacted Structures**

Created By: ShuJC0243      Date Created: 05/05/2015      Exported Date: 2/17/2016



Figure 26

Source: 2015 0226 HMG Phase 7 Socioeconomic Project Inundation 100yr;  
2015 0226  
HMG; Phase 7 Base No Action Socioeconomic Inundation 100yr;  
2015 0211 USACE Staging Area Structures



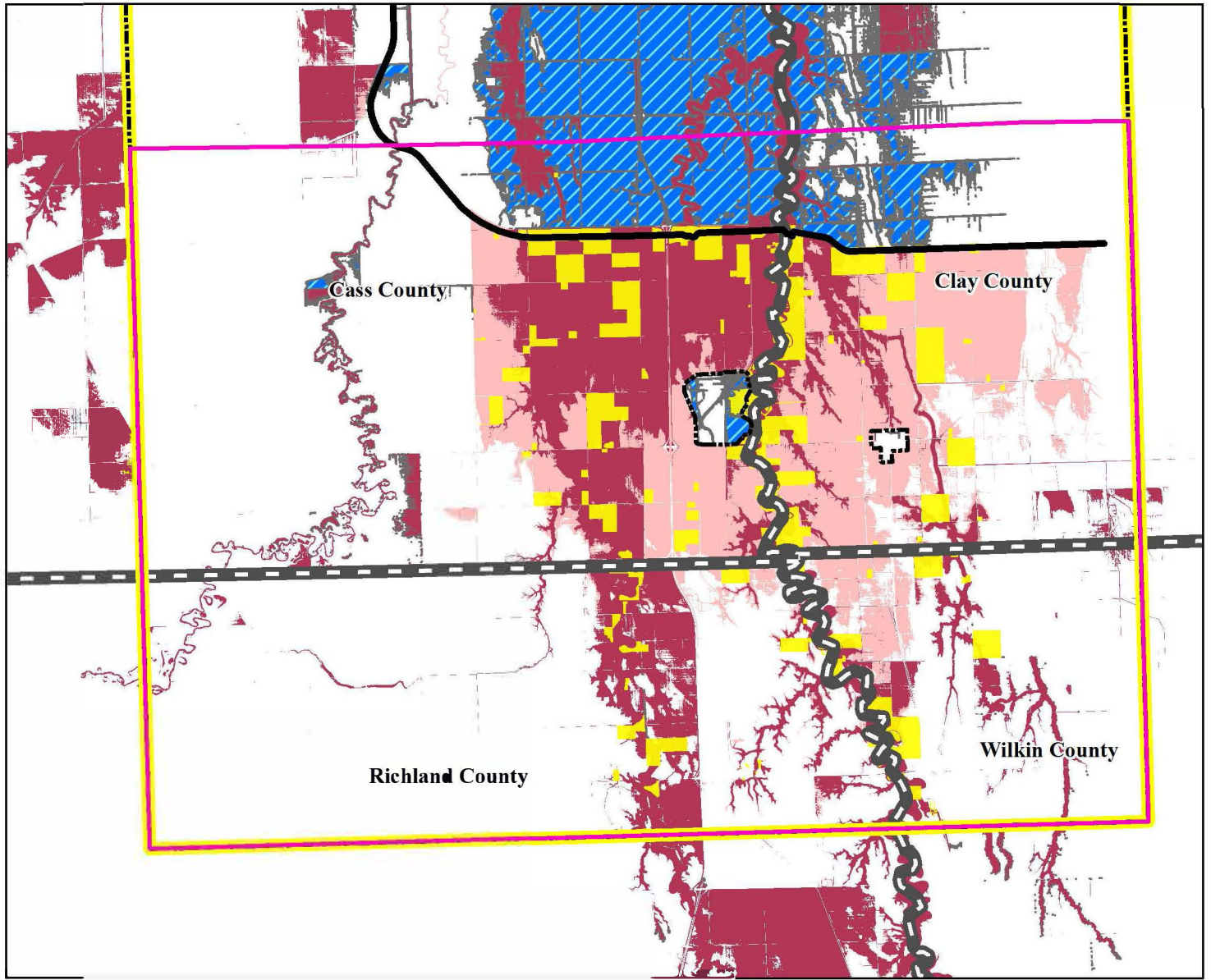
**Legend**

-  Project Area
-  MNDNR Structure/Parcel Study Area
-  County Boundary
-  Project Alignment
-  OHB and Cornstock Ring Levee
-  Project Impacted Developed Parcels
-  100-year Floodplain with or without Project
-  New 100-year Floodplain with Project
-  100-year Floodplain Removed with Project (i.e. Benefitted Area)

Note:  
 Structures used for determining parcel inclusion are those found within the counties identified and limited to the upstream inundation area. Impact is not defined by a set flood depth. If a structure is impacted by water by any extent, it is considered an impact. Parcels impacted are not differentiated by currently inundated and newly inundated parcels. Parcels included in counts were those found to contain impacted structures. Undeveloped land was not included in this analysis.



Path: L:\147209\mxd\PreDraftEIS\_Rev\Wenck\_Created\Proposed Project MNDNR Structure Count Analysis 100-Year Flood Impacted Parcels.mxd



**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

**Proposed Project - MNDNR Structure Count Analysis  
 100-Year Flood Impacted Parcels**

Created By: ShuJC0243

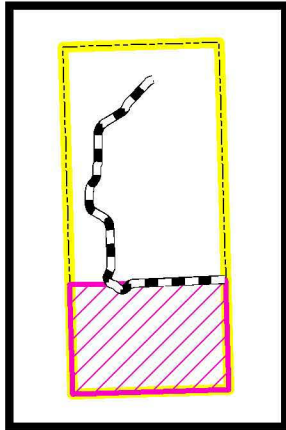
Date Created: 05/05/2015

Exported Date: 2/17/2016



Figure 27

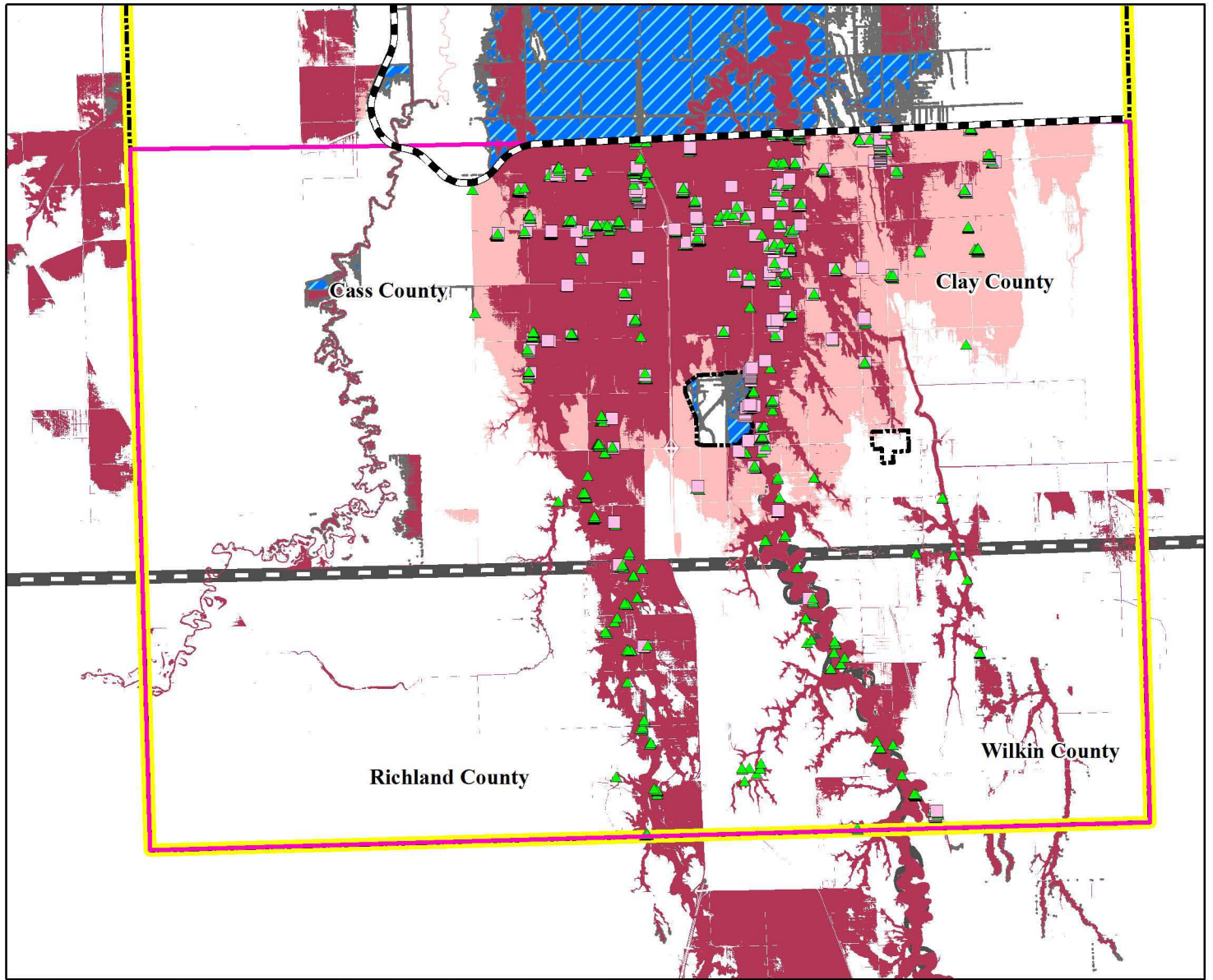
Source: 2015 0226 HMG Phase 7 Socioeconomic Project Inundation 100yr;  
 2015 0226 HMG Phase 7 Socioeconomic Base No Action Inundation 100yr;  
 2015 0211 USACE Staging Area Parcels



**Legend**

-  Project Area
-  MNDNR Structure/Parcel Study Area
-  County Boundary
-  Northern Alignment
-  OHB and Comstock Ring Levee
-  Impacted Non-Residential Structures
-  Impacted Residential Structures
-  100-year Floodplain with or without Project
-  New 100-year Floodplain with Project
-  100-year Floodplain Removed with Project (i.e. Benefitted Area)

Note:  
Structures included within the analysis are those found within the counties identified and limited to the upstream inundation area. Impact is not defined by a set flood depth. If structure is impacted by water by any extent, it is considered an impact. Structures impacted are not differentiated by currently inundated and newly inundated structures.



Path: L:\1472\09\mxd\PreDraftEIS Rev\Wenck Created\Northern Alignment Alternative MNDNR Structure Count Analysis 100-Year Flood Impacted Structures.mxd

**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

**Northern Alignment Alternative - MNDNR Structure Count Analysis  
100-Year Flood Impacted Structures**

Created By: ShujC0243

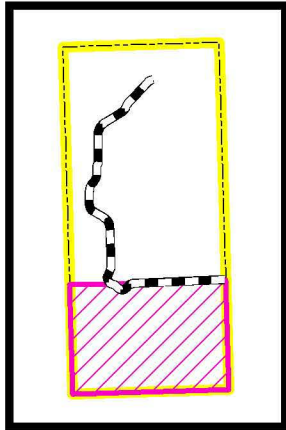
Date Created: 05/05/2015

Exported Date: 2/17/2016












Figure 28

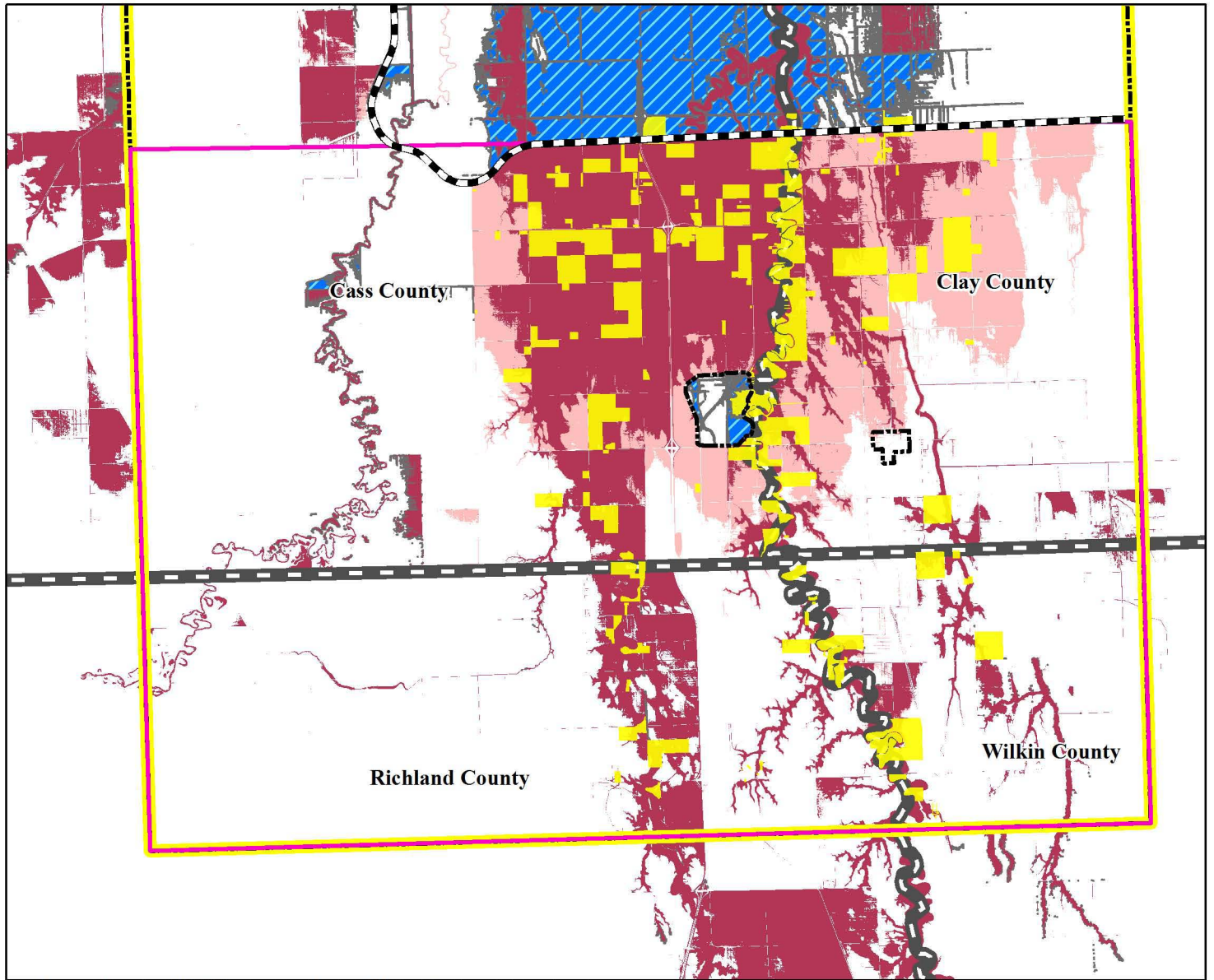
Source: 2015 0226 HMG Phase 7 Socioeconomic NAA Inundation 100yr;  
2015 0226 HMG Phase 7 Socioeconomic Base No Action Inundation 100yr;  
2015 0211 USACE Staging Area Structures



**Legend**

-  Project Area
-  MNDNR Structure/Parcel Study Area
-  County Boundary
-  Northern Alignment
-  OHB and Comstock Ring Levee
-  NAA Impacted Developed Parcels
-  100-year Floodplain with or without Project
-  New 100-year Floodplain with Project
-  100-year Floodplain Removed with Project (i.e. Benefitted Area)

Note:  
Structures used for determining parcel inclusion are those found within the counties identified and limited to the upstream inundation area. Impact is not defined by a set flood depth. If a structure is impacted by water by any extent, it is considered an impact. Parcels impacted are not differentiated by currently inundated and newly inundated parcels. Parcels included in counts were those found to contain impacted structures. Undeveloped land was not included in this analysis.



Path: L:\1472\09\mxd\PreDraftEIS\_Rev\Wenck Created\Northern Alignment Alternative MNDNR Structure Count Analysis 100-Year Flood Impacted Parcels.mxd

**FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT**

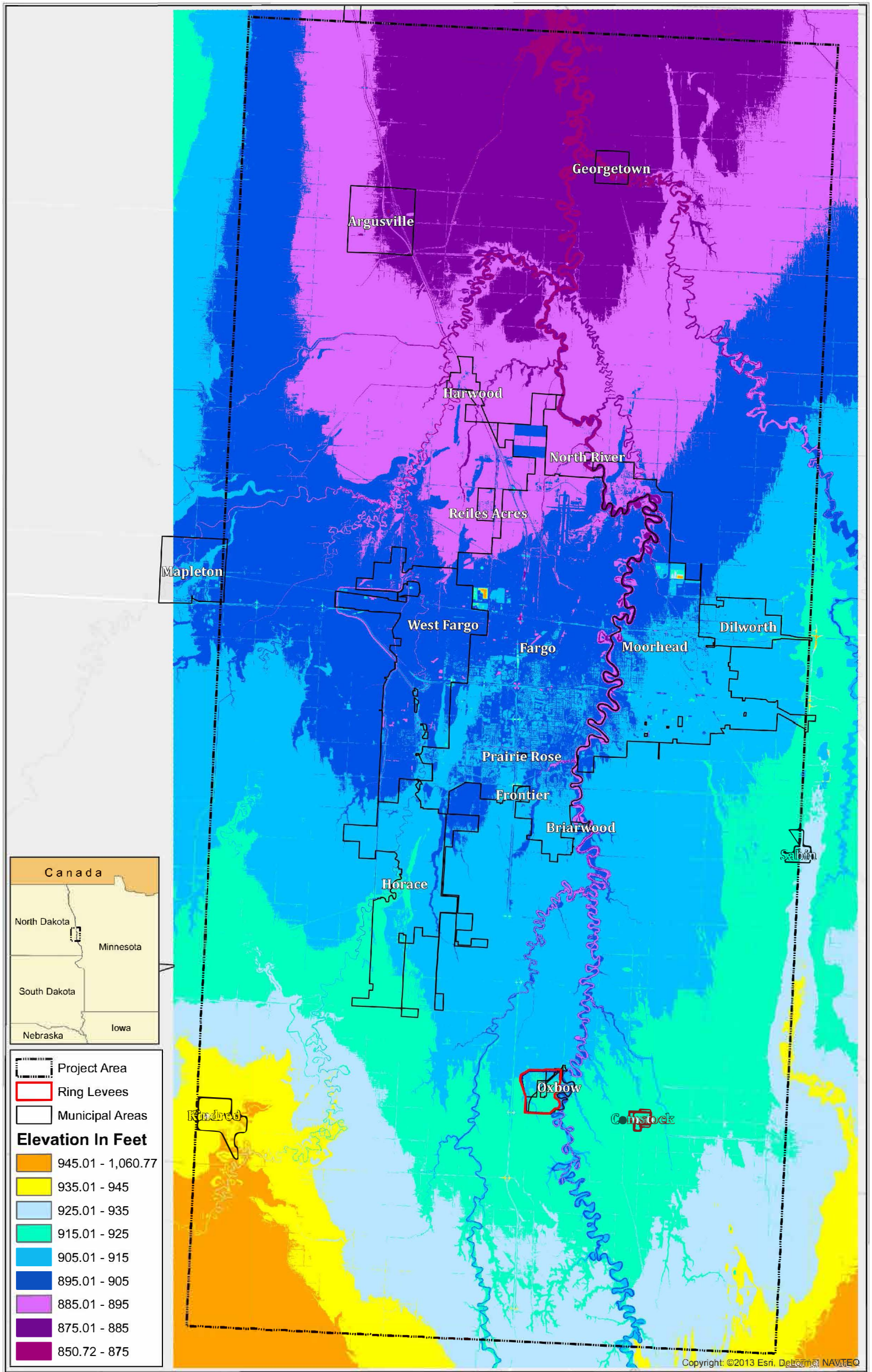
**Northern Alignment Alternative - MNDNR Structure Count Analysis  
100-Year Flood Impacted Parcels**

Created By: ShujC0243 Date Created: 05/05/2015 Exported Date: 2/17/2016



Figure 29

Source: 2015 0226 HMG Phase 7 Socioeconomic NAA Inundation 100yr;  
2015 0226 HMG Phase 7 Socioeconomics Base No Action Inundation 100yr  
2015 0211 USACE Staging Area Parcels

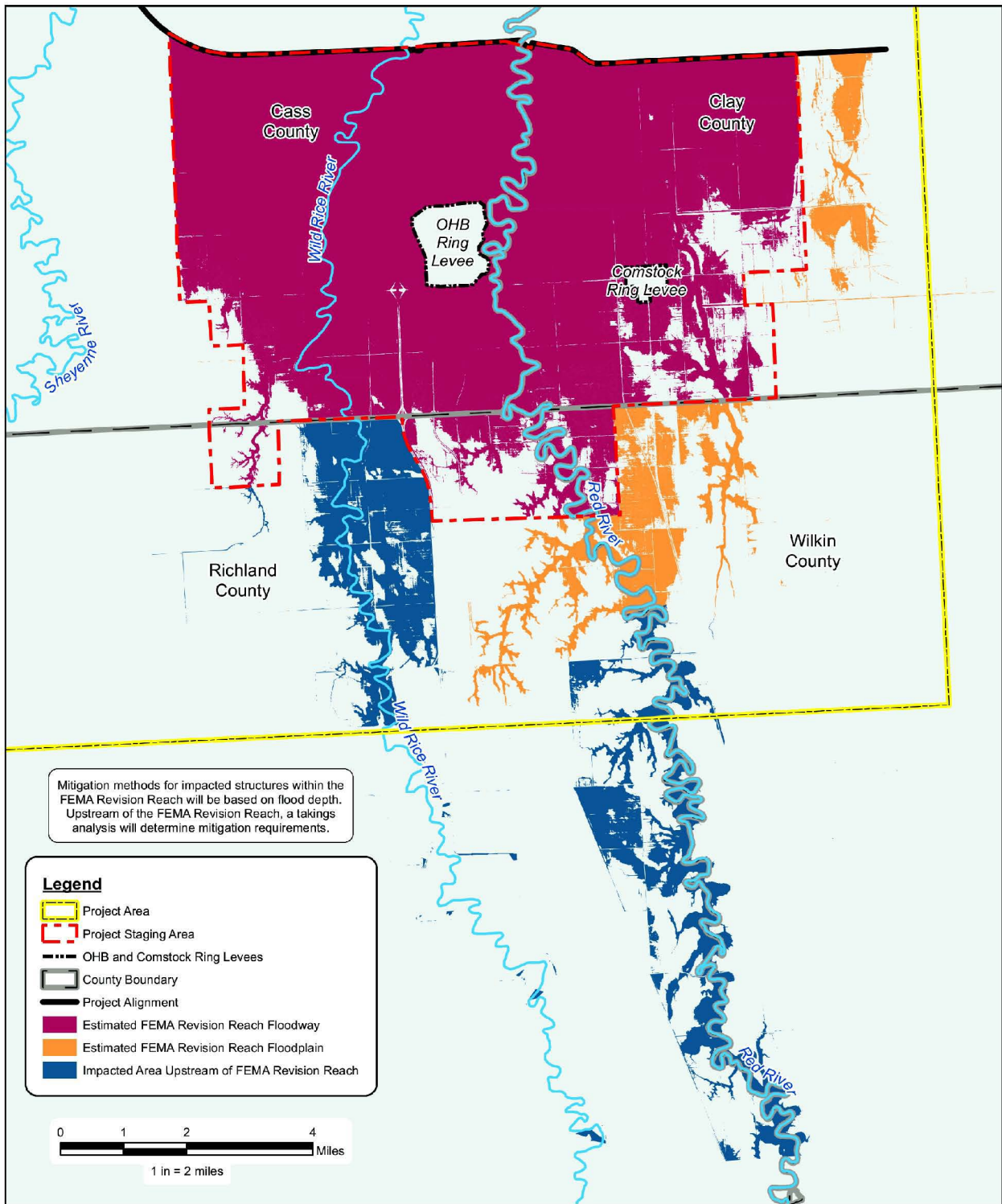


FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Figure 30

Project Area Ground Elevation

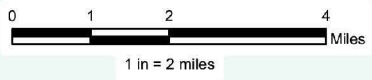
Source: :USACE, August 2015



Mitigation methods for impacted structures within the FEMA Revision Reach will be based on flood depth. Upstream of the FEMA Revision Reach, a takings analysis will determine mitigation requirements.

**Legend**

- Project Area
- Project Staging Area
- OHB and Comstock Ring Levees
- County Boundary
- Project Alignment
- Estimated FEMA Revision Reach Floodway
- Estimated FEMA Revision Reach Floodplain
- Impacted Area Upstream of FEMA Revision Reach



Source: Phase 7EA Socioeconomics Date: July 31, 2015



Created By: KMW Date Created: 07/23/15 Date Saved: 08/07/15 Date Exported: 08/07/15  
 Plotted By: Kyle Volk Parcel Date: N/A Aerial Image: N/A Elevation Data: W/Lidar  
 Horizontal Datum: NAD 1983 StatePlane North Dakota South FIPS 3302 Feet Vertical Datum: NAVD1988  
 T:\Projects\1640016476\246\MNEIS\_Report\_Review\Figure\_31\_MNDNR\_Invandation\_Map\_2015\_07\_30.mxd

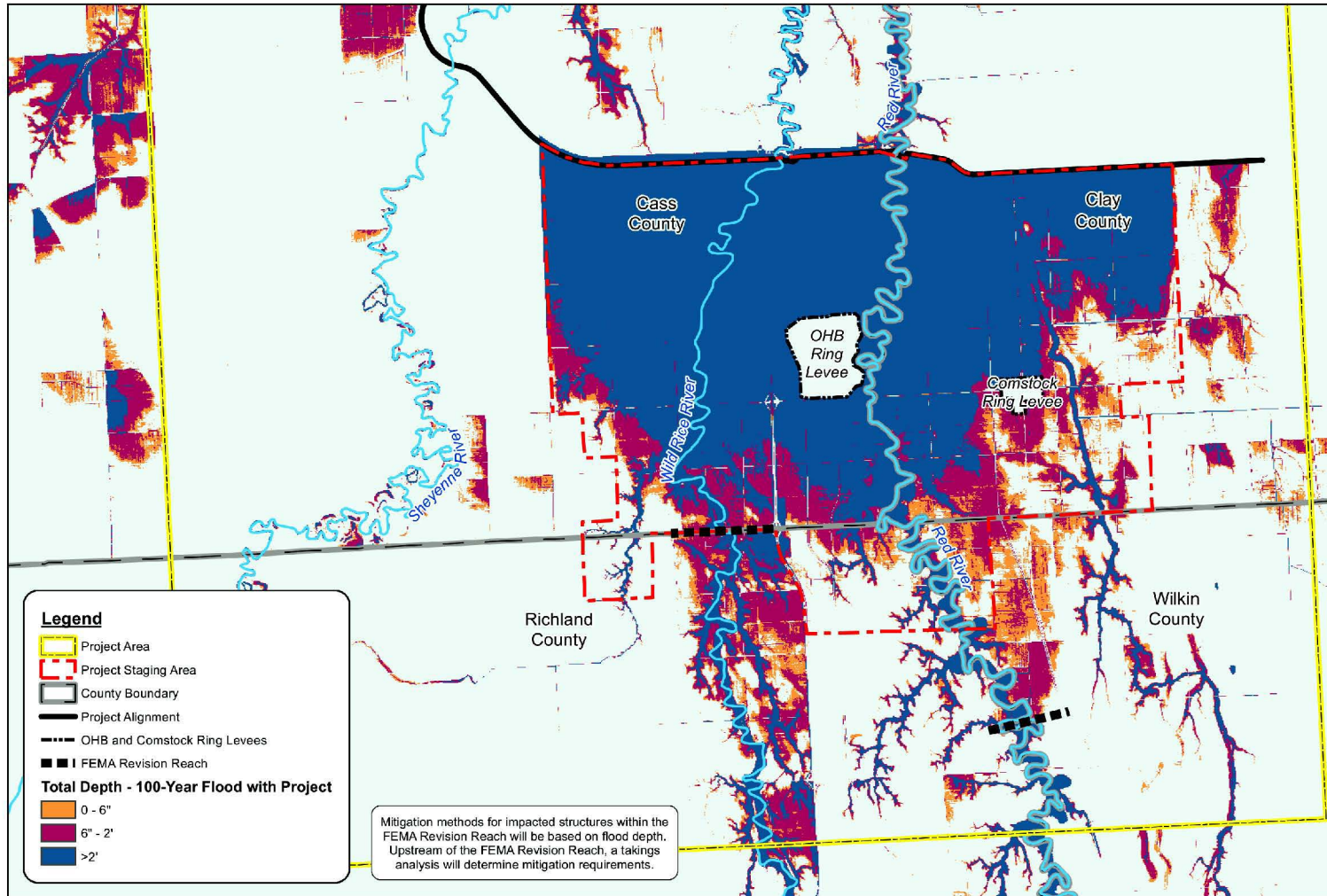
Path: L:\1472\09\mxd\PreDraftEIS\_Rev\Final FEMA Coordination Plan.mxd

FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Figure 31

Final FEMA/USACE Coordination Plan (April 2015)  
 Areas of Interest

Sources: Phase 7EA Socioeconomics, July 31 2015



FARGO-MOORHEAD FLOOD RISK MANAGEMENT PROJECT

Figure 32

Proposed Project Total 100-year Depth

Sources: Phase 7EA Socioeconomics, July 31 2015



