

City of Fargo
Coulee's Crossing Flood
Risk Management

Public Information Meeting

July 10, 2013

Coulee's Crossing Flood Risk Management

Overview/Why Are We Here

- Review Base Alignment and Enhancement Potential
- Project Schedule
- Public Comment





2009 Spring Flood – Coulee's Crossing Area



HoustonEngineering Inc.
1401 21st Avenue North Fargo ND 58102

701.237.5065



Oakcreek

Coulee's Crossing

Copperfield Court

Meadow Creek

Timberline

40 AVES S

41 AVES S

25 ST S

OAKCREEK DR S

DOUGLAS DR S

WEST ROSE C

MEADOW CREEK CIR S

COPPERFIELD CT S

BERLINE CIR S

41 AVES S

32 ST S

42 AVES S

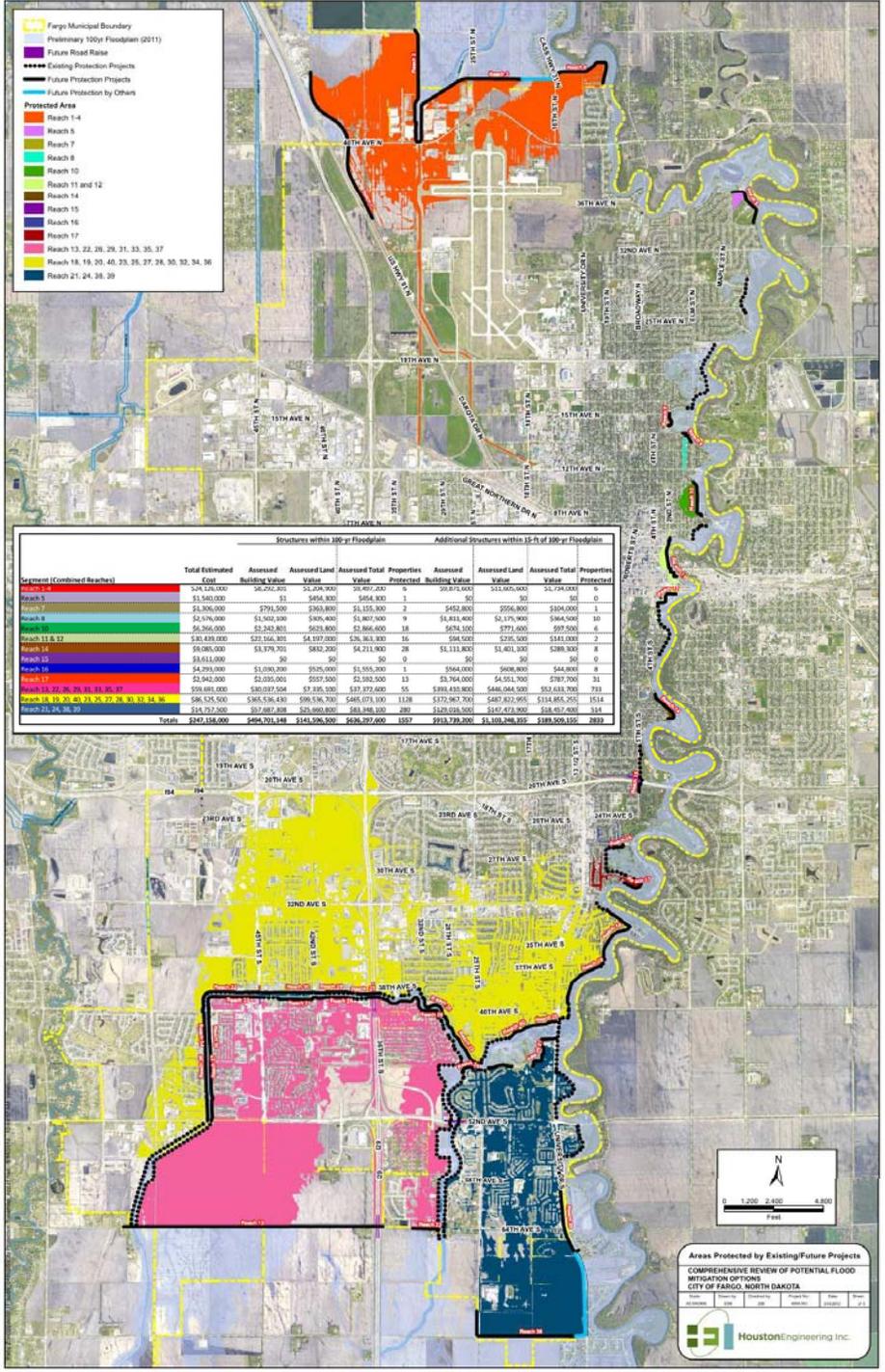
43 AVES S



Comprehensive Review of Potential Flood Mitigation Options



Completed by
Houston Engineering
in cooperation
with Braun Intertec

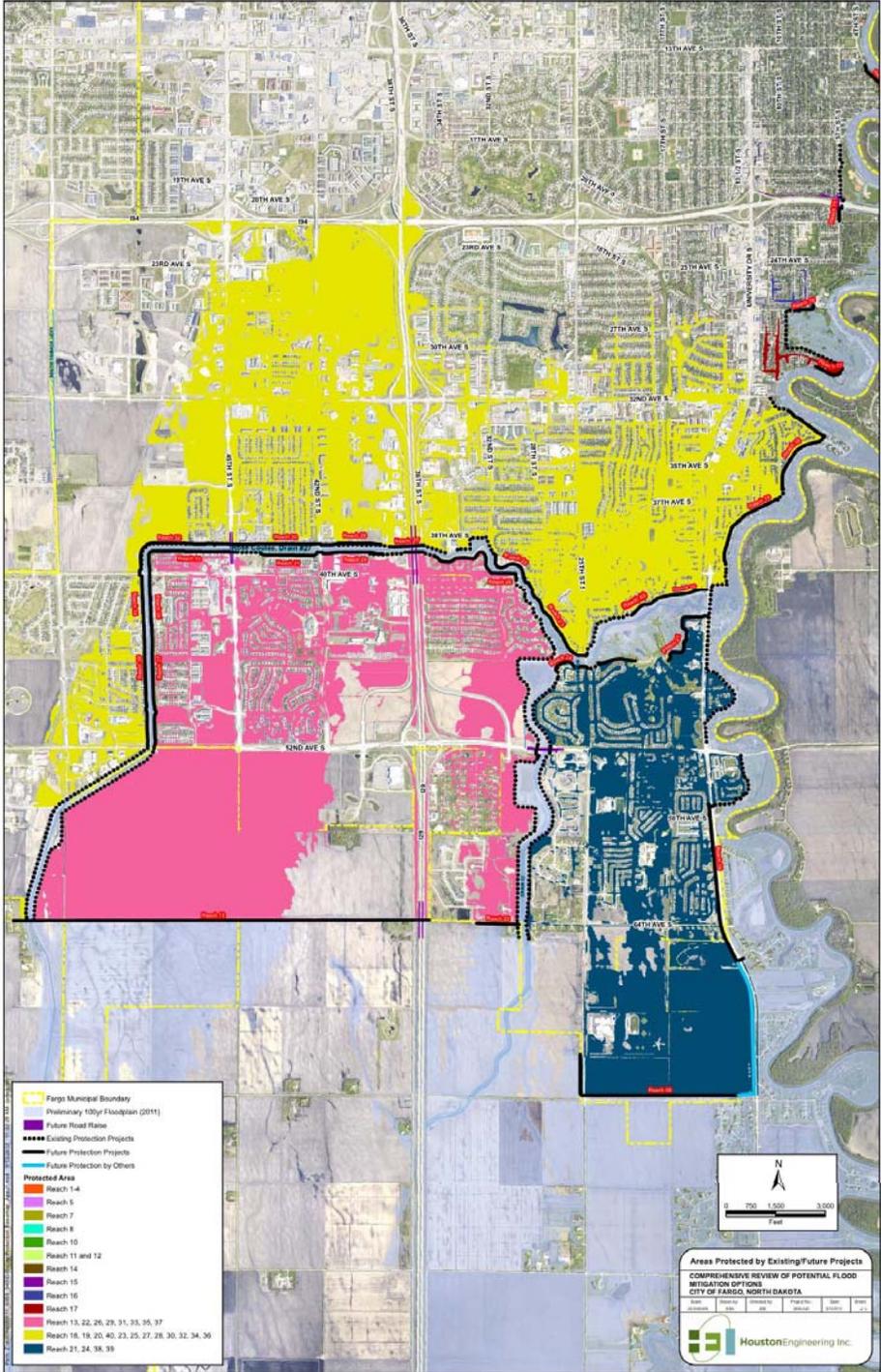




Comprehensive Review of Potential Flood Mitigation Options



Completed by
Houston Engineering
in cooperation
with Braun Intertec

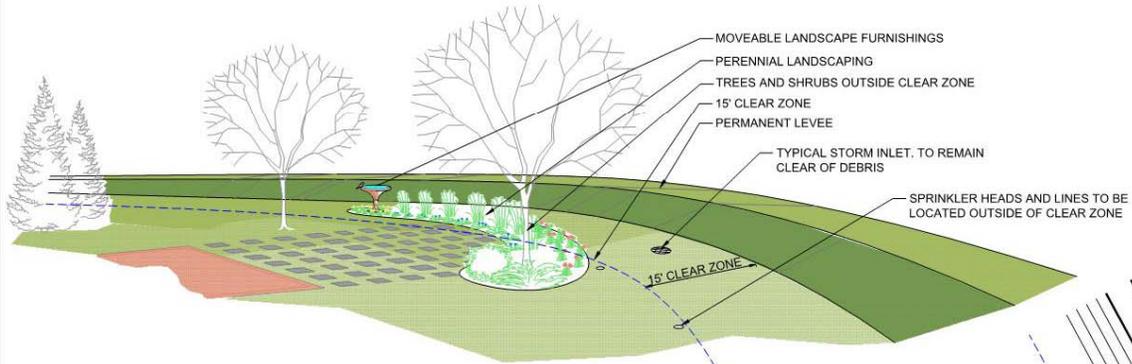


Base Plan and Enhancement Options

- Base Plan
- Base Plan with Modular Block Enhancements
- Base Plan with Modular Block Enhancements and Park District Facilities.

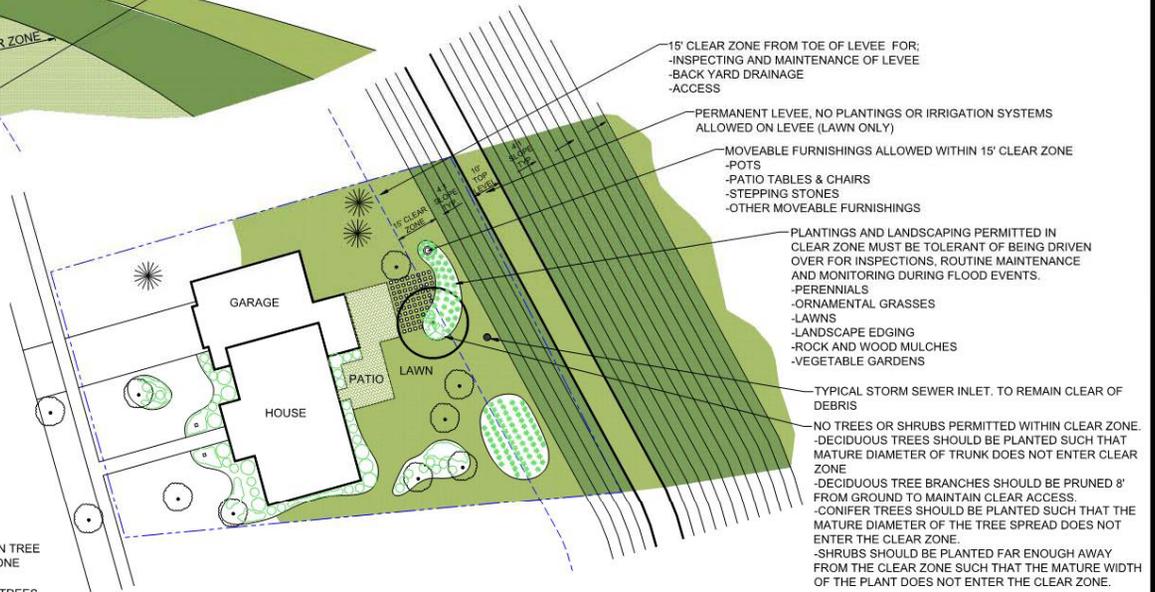
Base Plan – Levee Allowable Use

CITY OF FARGO
STANDARD LEVEE
ALLOWABLE USE EXAMPLE

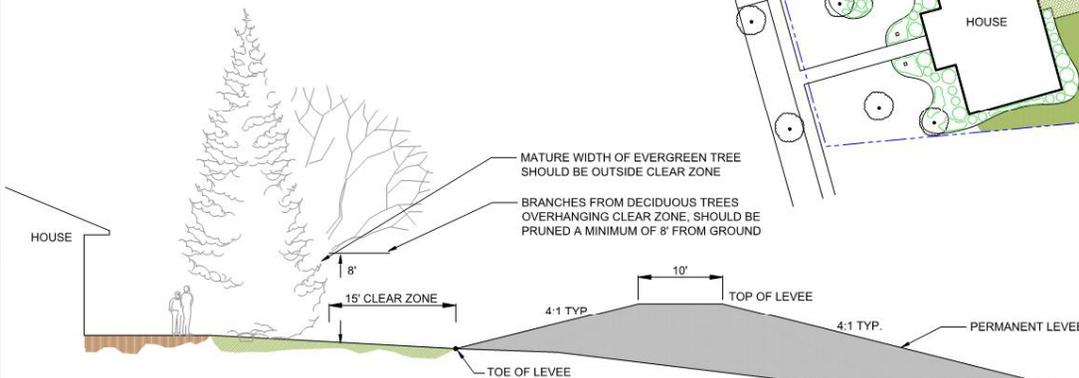


Typical Perspective

DRAINAGE NOTE:
DRAINAGE OF RUNOFF ADJACENT TO FLOODWALLS AND LEVEES IS IMPORTANT IN MAINTAINING THE INTEGRITY OF THE STRUCTURES. AS A RESULT, LANDSCAPING OR OTHER ADDED FEATURES SHOULD NOT CHANGE OR BLOCK THE DESIGN DRAINAGE GRADES AND FLOW PATHS.



Typical Plan View



Typical Section

Warning:
The primary purpose of the identified Clear Zone is to provide a reliable corridor of access along the levees and floodwalls. As a result, this corridor must be free of obstructions to assure adequate access by personnel and equipment for inspection, routine maintenance, monitoring, and flood-fighting. The property owner will be solely responsible for the repair and/or replacement of any feature placed within the identified clear zone area. The City of Fargo will not be responsible for costs associated with any damage to features within this area resulting from the required access.

Base Plan with Modular Block Enhancements



2:16000(6/29/13)_6059_029(S)Coulées Crossing Permanent Flood Protection 2.5-2.13.dwg (13x17) 7/8/2013 3:46 PM (Impressat)

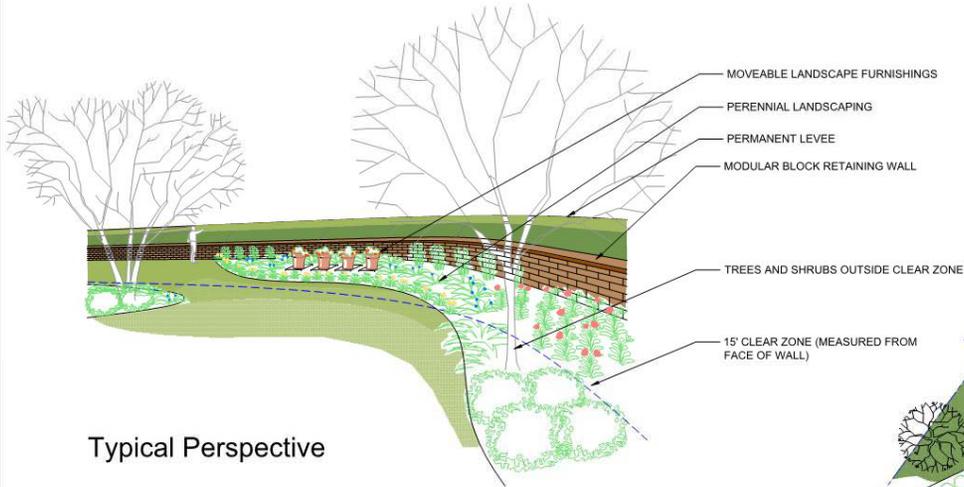
No. Revision		Date	By		Fargo P: 701.237.5065 F: 701.237.5101		Drawn by RGE	Date 7-8-13	COULEES CROSSING PERMANENT FLOOD PROTECTION CITY OF FARGO FARGO, ND	SITE PLAN - MODULAR BLOCK ENHANCEMENT PROJECT NO. 6059-029	SHEET 2 of 3
						Checked by JDB	Scale AS SHOWN				

Modular Block Wall Example



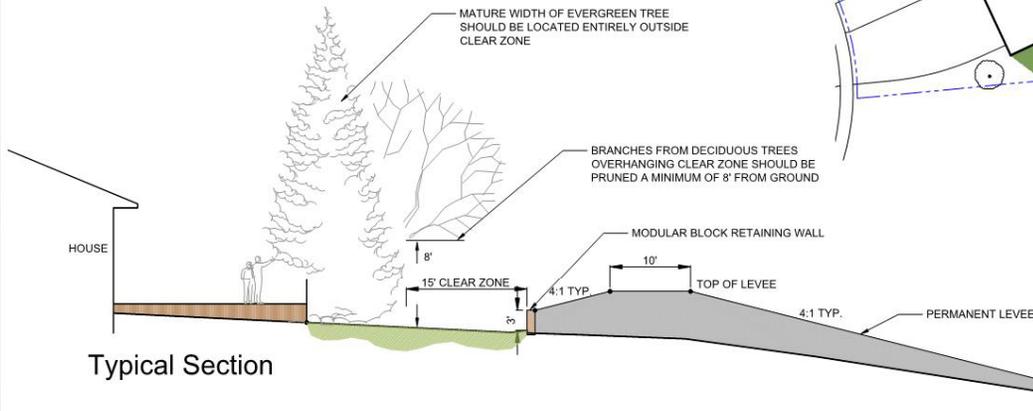
Modular Block Wall Allowable Use

CITY OF FARGO STANDARD COMBINATION LEVEE WITH MODULAR BLOCK WALL ALLOWABLE USE EXAMPLE

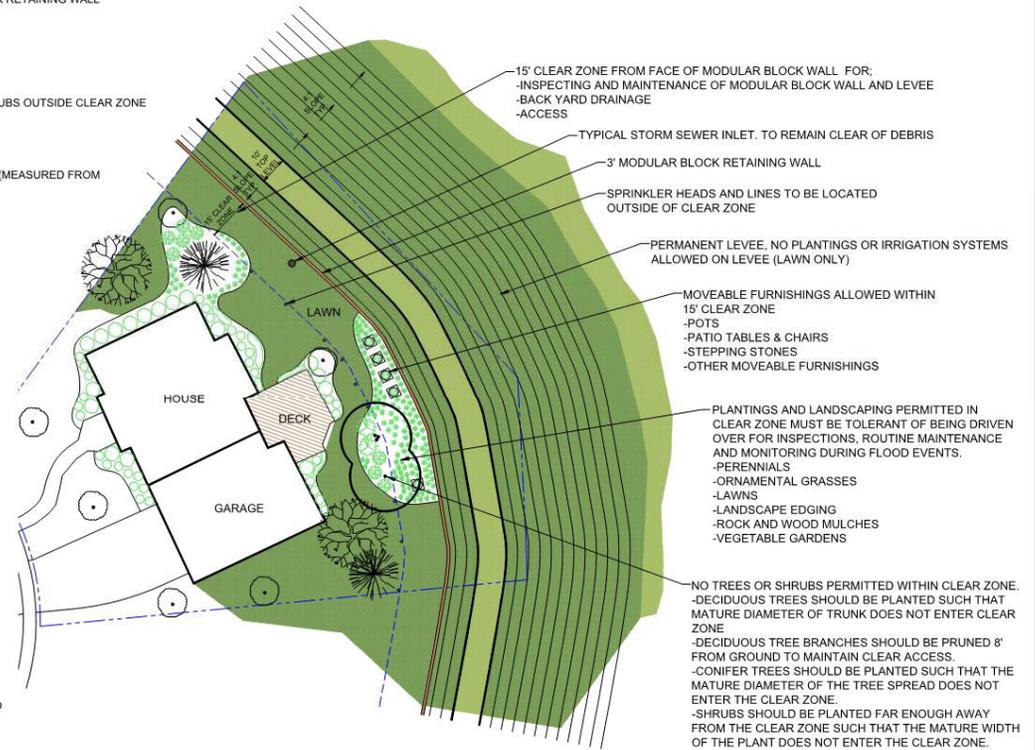


Typical Perspective

DRAINAGE NOTE:
DRAINAGE OF RUNOFF ADJACENT TO FLOODWALLS AND LEVEES IS IMPORTANT IN MAINTAINING THE INTEGRITY OF THE STRUCTURES. AS A RESULT, LANDSCAPING OR OTHER ADDED FEATURES SHOULD NOT CHANGE OR BLOCK THE DESIGN DRAINAGE GRADES AND FLOW PATHS.



Typical Section



Typical Plan View

Warning:
The primary purpose of the identified Clear Zone is to provide a reliable corridor of access along the levees and floodwalls. As a result, this corridor must be free of obstructions to assure adequate access by personnel and equipment for inspection, routine maintenance, monitoring, and flood-fighting. The property owner will be solely responsible for the repair and/or replacement of any feature placed within the identified clear zone area. The City of Fargo will not be responsible for costs associated with any damage to features within this area resulting from the required access.

Modular Block Wall Maintenance



Maintenance Process

- City responsible to any significant structural integrity related issues...
- Landowner responsible to regular maintenance, cosmetic repairs,...

Base Plan with Modular Block Enhancements and Park District Facilities



Z:\6059\6059-029_001\CAD\Civil\Drawings\Options 4 5-20-13.dwg, 11/17/17/8/2013 3:48 PM (rjg/ghd)

No.	Revision	Date	By



Fargo
 P: 701.237.5065
 F: 701.237.5101

Drawn by RGE
 Checked by JDB
 Date 7-8-13
 Scale AS SHOWN

COULEES CROSSING PERMANENT FLOOD PROTECTION
 CITY OF FARGO
 FARGO, ND

SITE PLAN - PARK FACILITY ENHANCEMENTS
 PROJECT NO. 6059-029

SHEET
 3 of 3

Project Schedule

■ Schedule

– **Public Informational Meeting (tonight)**

- Public Comment Period (Until 7/17)

– Stake Alignment(s) (7/11)

– **On-Site Alignment Meetings– Select Preferred Alignment (7/12?)**

– Revised Preliminary Project Design – Public Comments

– Right-of-way / Acquisition (July-August)

– Draft Plans / Specifications / Cost Estimates (August 16th)

– Draft Plan Review – City (August 19-21st)

– Advertise for Bids (August 21st)

– Final Plans / Specifications (August 23rd)

– Open Bids (September 11th)

– City Commission Approve Bids (September 16th)

– Anticipated Construction Begins (September 2013)

– Substantial Construction Completion (November 2013)

– Final Construction Completion (June 2014)

Coulee's Crossing Flood Risk Management

Questions / Discussion

www.cityoffargo.com/Engineering

