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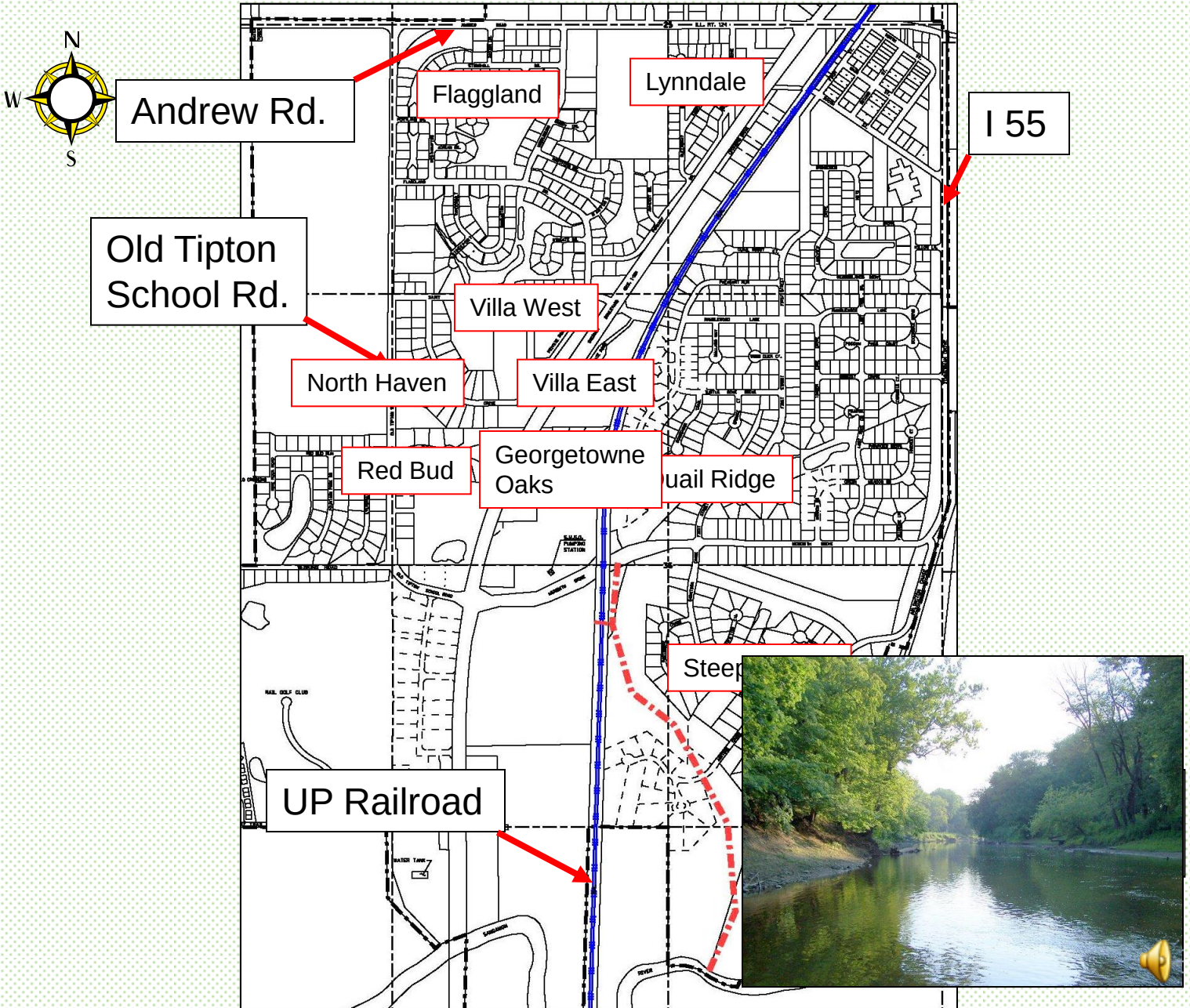
Village of Sherman Drainage and Hydraulic Study

OUTLINE

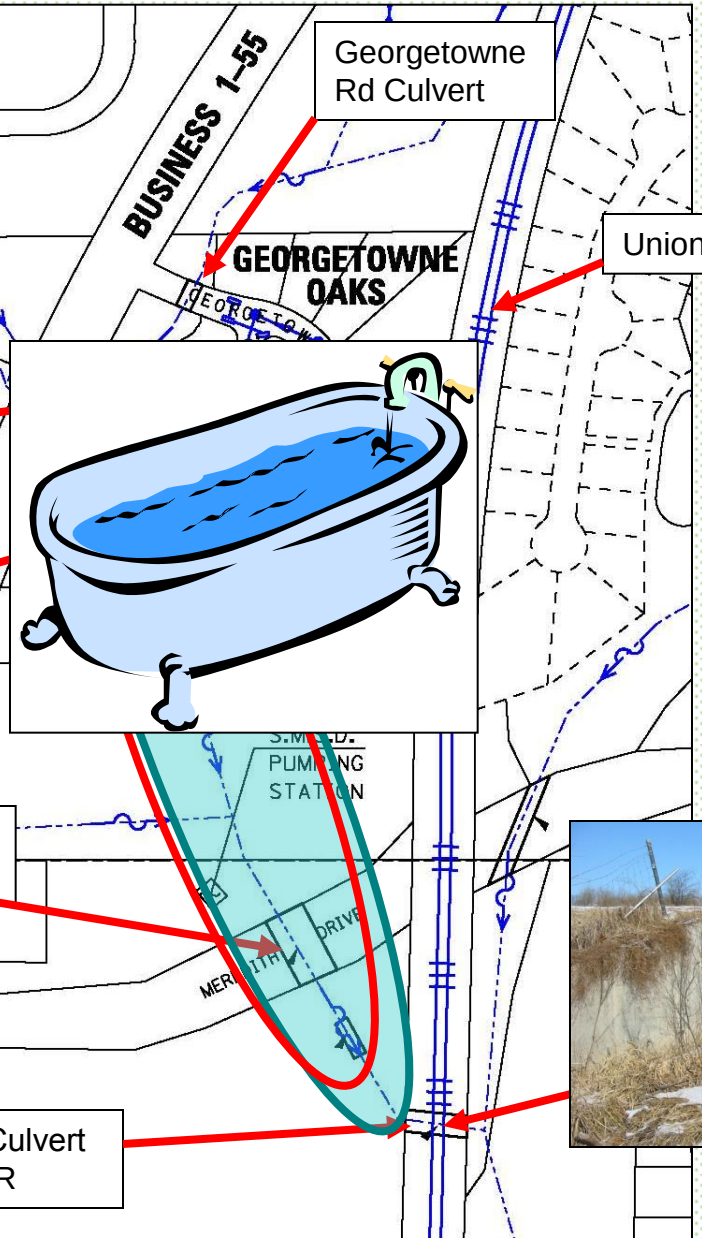
- This presentation will cover:
  - A Description Of Sherman's Drainage Network
  - An Overview Of Sherman's Areas Of Concern
  - Solution Alternatives For Each Problem Area
  - A List Of Priorities For Alleviating Flooding At Each Problem Area
  - Additional Recommendations

SHERMAN'S DRAINAGE

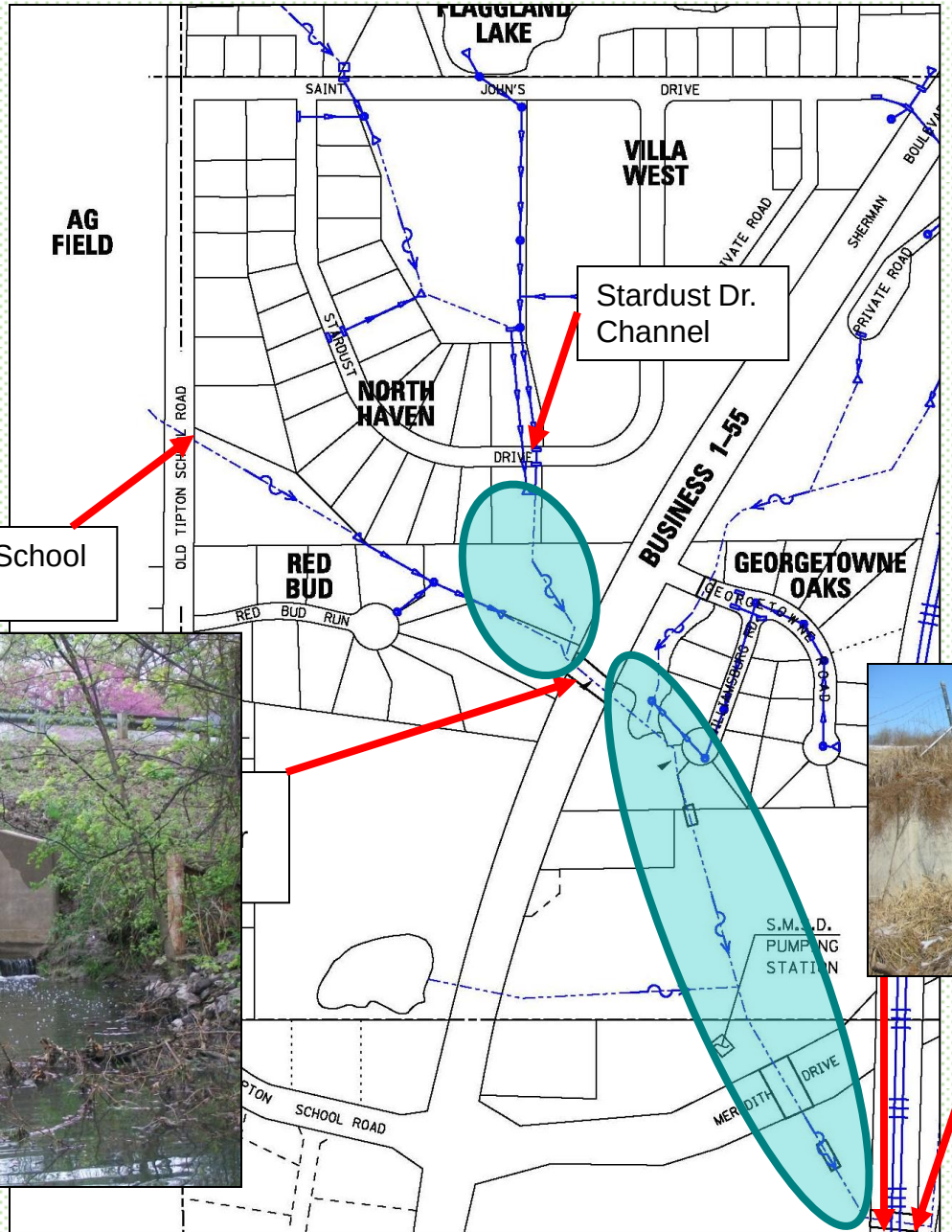


AREAS OF CONCERN

MEREDITH DR. AT THE UNION PACIFIC RAILROAD & GEORGETOWNE OAKS



RED BUD & NORTH HAVEN



Stardust Dr. Channel

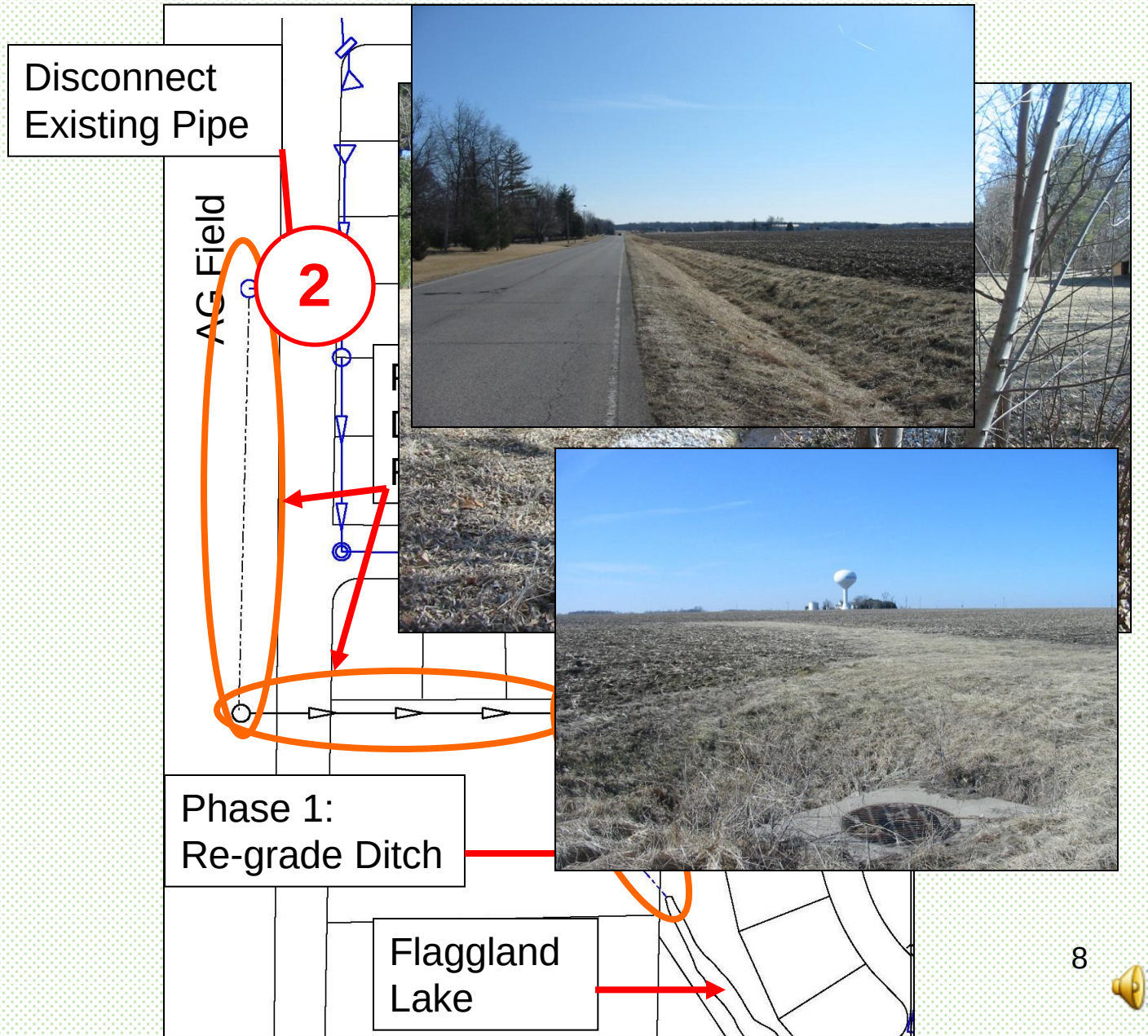
Old Tipton School Rd. Culvert

6' x 4' Arch Culvert Under UP RR

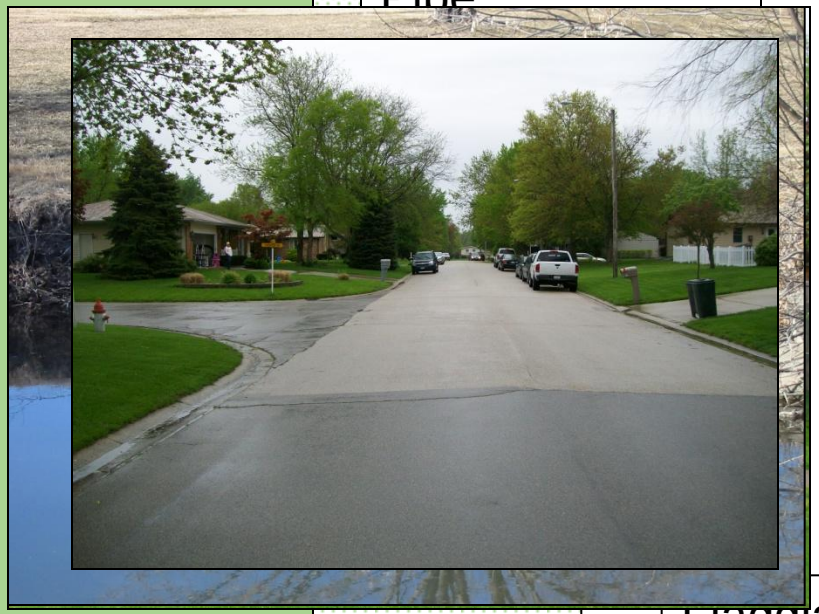
FLAGGLA

Old Tipt
School F

FLAGGLAND PARK (small network)



Fl rge network)



Ph
Re
Pi
Pipe

Phase
Break
In Two

Phase
Lower

Flaggland
Lake

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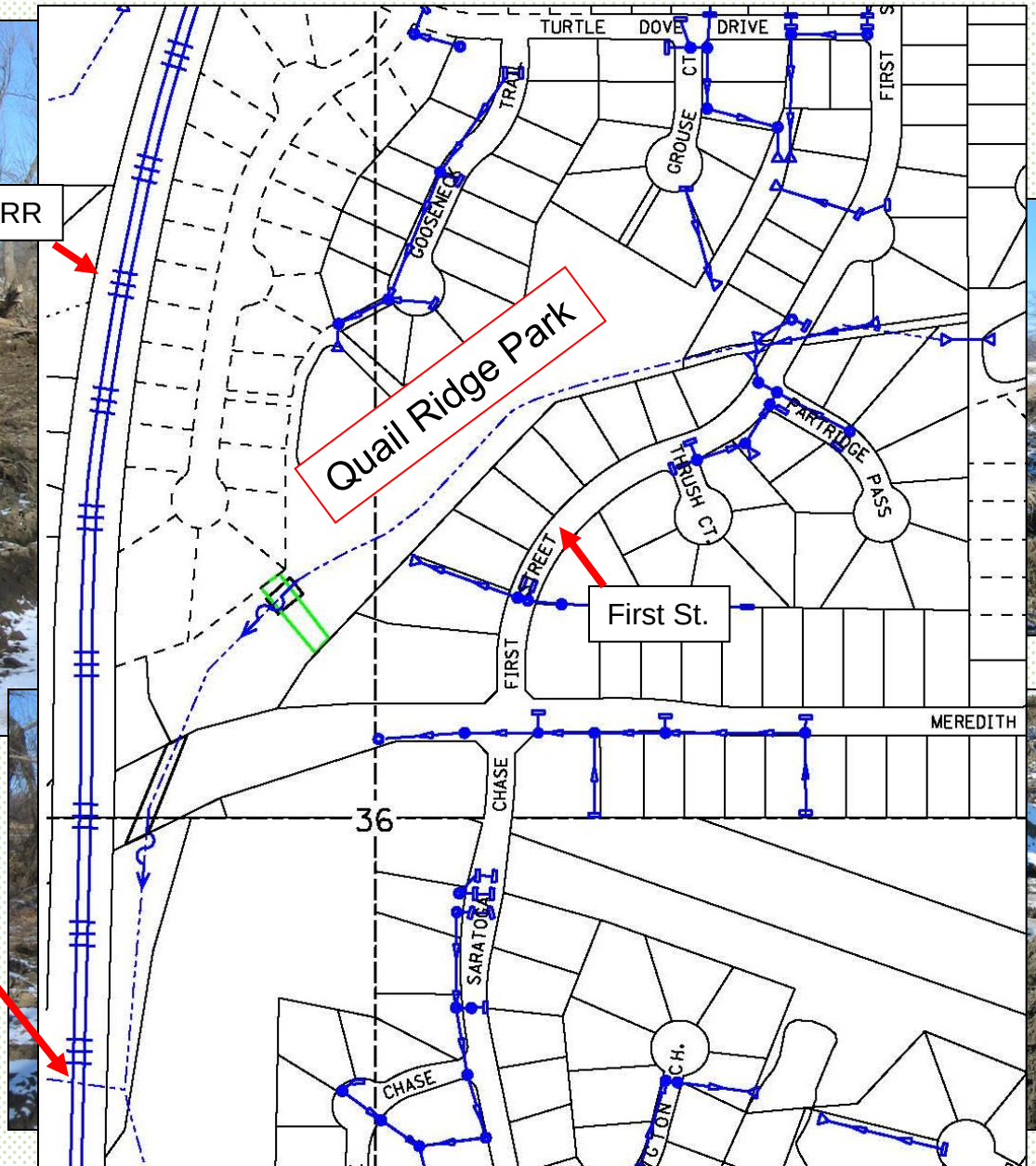
QUAIL RIDGE

Union Pacific RR

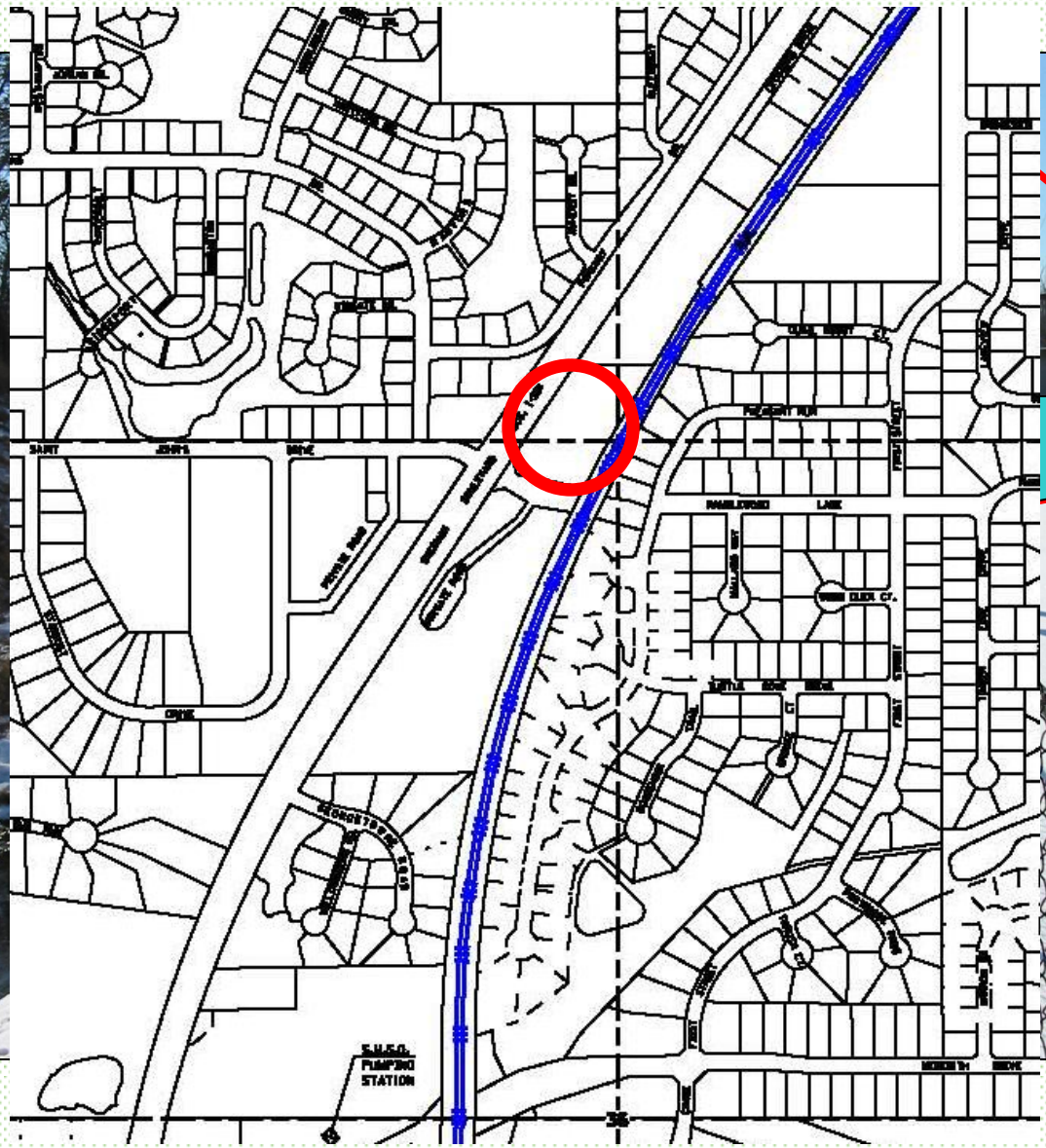


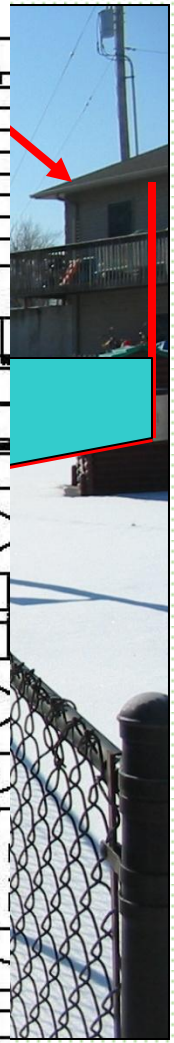
6' x 4' Arch Culvert
Under UP RR

ADDITIONAL RECOMMENDATIONS

- The Village of Sherman needs to:
  - Update the Village Ordinances.
  - Hire an ordinance enforcer.

EXAMPLE (DAYCARE CENTER)





RECOMMENDATION PRIORITY

Drainage Problem	Phase #	Action	Estimated Cost	Existing Probability of Flooding	Proposed Probability of Flooding	Priority
Meredith Dr. @ Railroad	*	Install 8' x 8' Box To Supplement The Existing Arch Culvert Under Railroad. This Action Will Alleviate Flooding In Georgetowne Oaks And Reduce The Frequency Of Flooding At Meredith Dr.	$151,200	20%	2%	1
Flaggland Park Small Network	Phase 1	Re-Grade Drainage Ditch From 36" Outlet Of Small Drainage Network To Flaggland Lake. This Action Will Reduce Tailwater Effects At The Network Outlet And Increase The Flow Rates.	$2,500	99.8%	20%	2
	Phase 2 *	Divert Ag Runoff Through The Roadside Ditch Along Old Tipton School Rd. And Through A New 30" Pipe To The Re-Graded Ditch. This Action Will Reduce The Flow Through The Small Network.	$35,000	99.8%	20%	3
Flaggland Park Large Network	Phase 3	Lower The Twin 18" Culvert Between Upper Flaggland Lake And Flaggland Lake, Split The Large Network In Two Halves (East And West), And Replace 24" Pipe With 30" Pipe. This Action Will Increase The Efficiency Of The Existing Storm Water Drainage System And Reduce The Frequency Of Flooding In The Southern Half Of Flaggland Subdivision.	$86,200	99.8%	20%	4
	Phase 4	Replace Sections Of The Existing Pipe Of The East Network With 24" And 30" Pipe. This Action Will Reduce The Frequency Of Flooding In The Northeastern Quarter Of Flaggland Subdivision.	$44,300	99.8%	20%	5
	Phase 5	Install A New Inlet And Replace Existing Pipe In West Network With 24" And 30" Pipe. This Action Will Reduce The Frequency Of Flooding In The Northwestern Quarter Of Flaggland Subdivision.	$87,000	99.8%	20%	6
Georgetowne Rd.	-	Install A 72" RCCP Culvert Under Georgetowne Rd To Supplement Existing 84" RCCP. This Action Will Reduce The Frequency Of Flooding Upstream Of Georgetown Rd.	$29,900	4%	2%	7
Quail Ridge	-	Adjust Twin 30" CMPs To Prevent Overtopping Of Detention Pond In Park.	$5,000	2%	1%	8
All His Children Daycare Center	*	Install An Additional 60" CMP To Supplement Existing Triple 60" CMPs. This Action Will Reduce The Frequency Of Flooding Of The Daycare Center.	$100,000	2%	1%	9
		Install 12' x 6' Box To Extent Triple 60" CMPs North Of Daycare. This Action Will Prevent Flooding Of The Daycare Center But May Cause Flooding Upstream Of The Center.	$218,000			
Red Bud & North Haven	-	See Meredith Dr. @ Railroad - Priority 1	-	2%	< 1%	-

(*): Denotes More Than One Option For Resolving A Given Drainage Concern

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Conclusion