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### Butte High School Storm Water Rehabilitation

Brady Cheeney

*Montana Tech of the University of Montana, [bcheeney@mtech.edu](mailto:bcheeney@mtech.edu)*

Rob Cromwell

*Montana Tech of the University of Montana, [rcromwell@mtech.edu](mailto:rcromwell@mtech.edu)*

Dylan Pannabecker

*Montana Tech of the University of Montana, [dpannabecker@mtech.edu](mailto:dpannabecker@mtech.edu)*

Reese Spears

*Montana Tech of the University of Montana, [rspears@mtech.edu](mailto:rspears@mtech.edu)*

Doug Tamcke

*Montana Tech of the University of Montana, [dtamcke@mtech.edu](mailto:dtamcke@mtech.edu)*

*See next page for additional authors*

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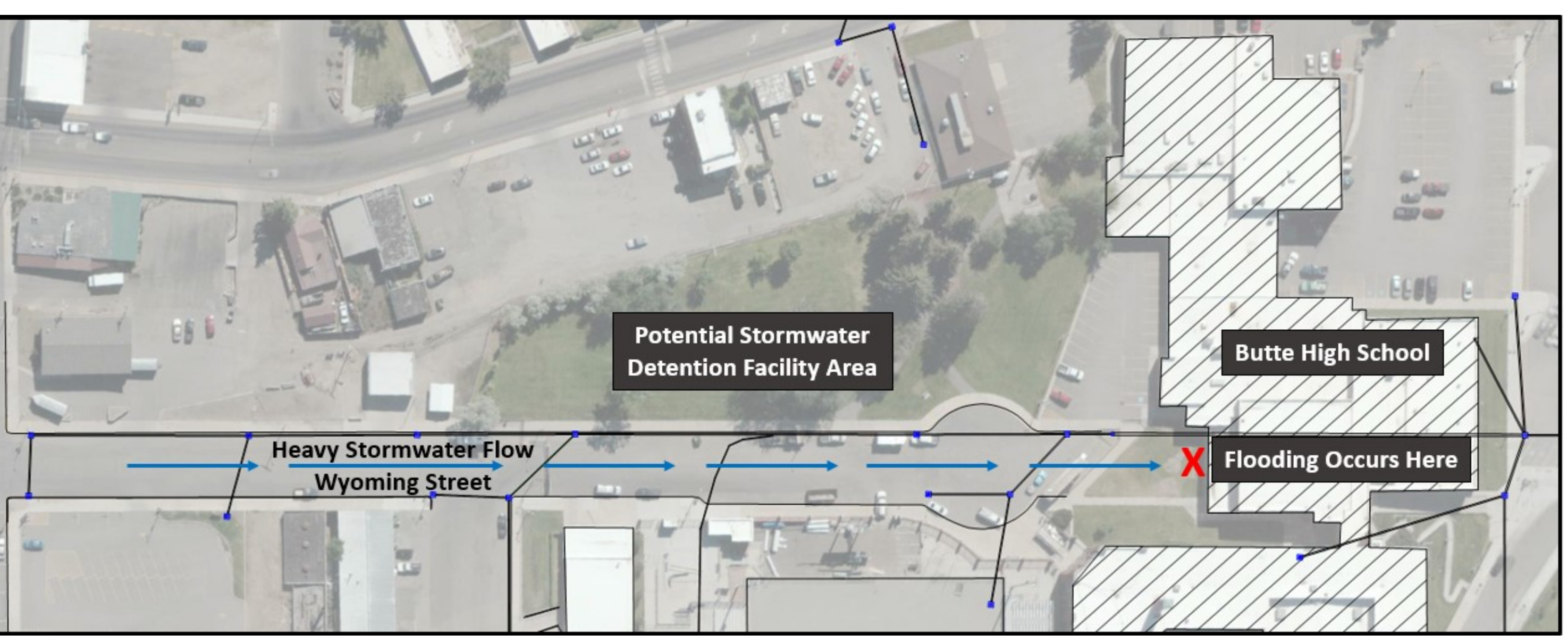
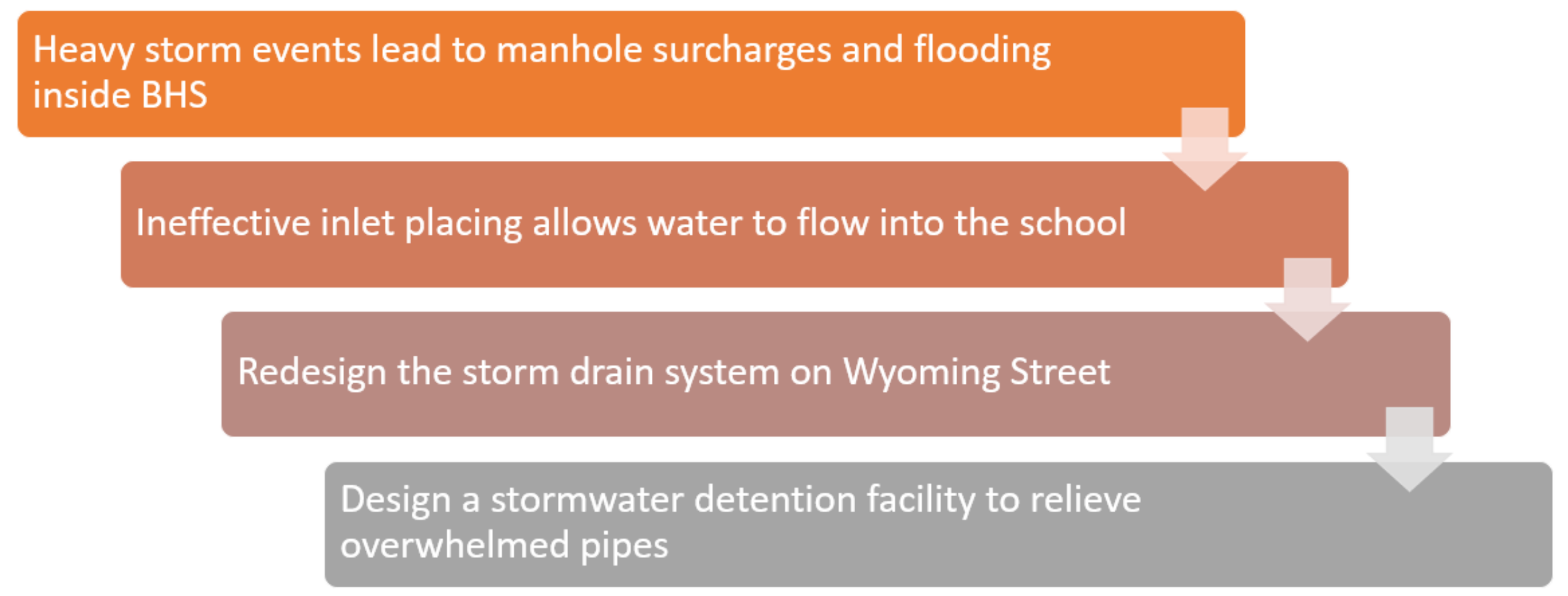
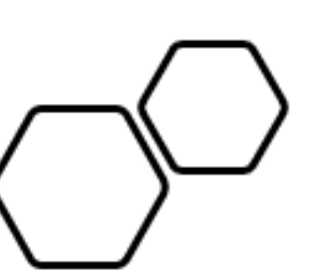
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**Authors**

Brady Cheeney, Rob Cromwell, Dylan Pannabecker, Reese Spears, Doug Tamcke, TJ Thomas, Clyde Thompson, Marie Waldbillig, and Bryce Williams

# THE OBJECTIVE

Improve the storm drainage system around BHS.



# MontanaTech

Senior Design: Spring Semester

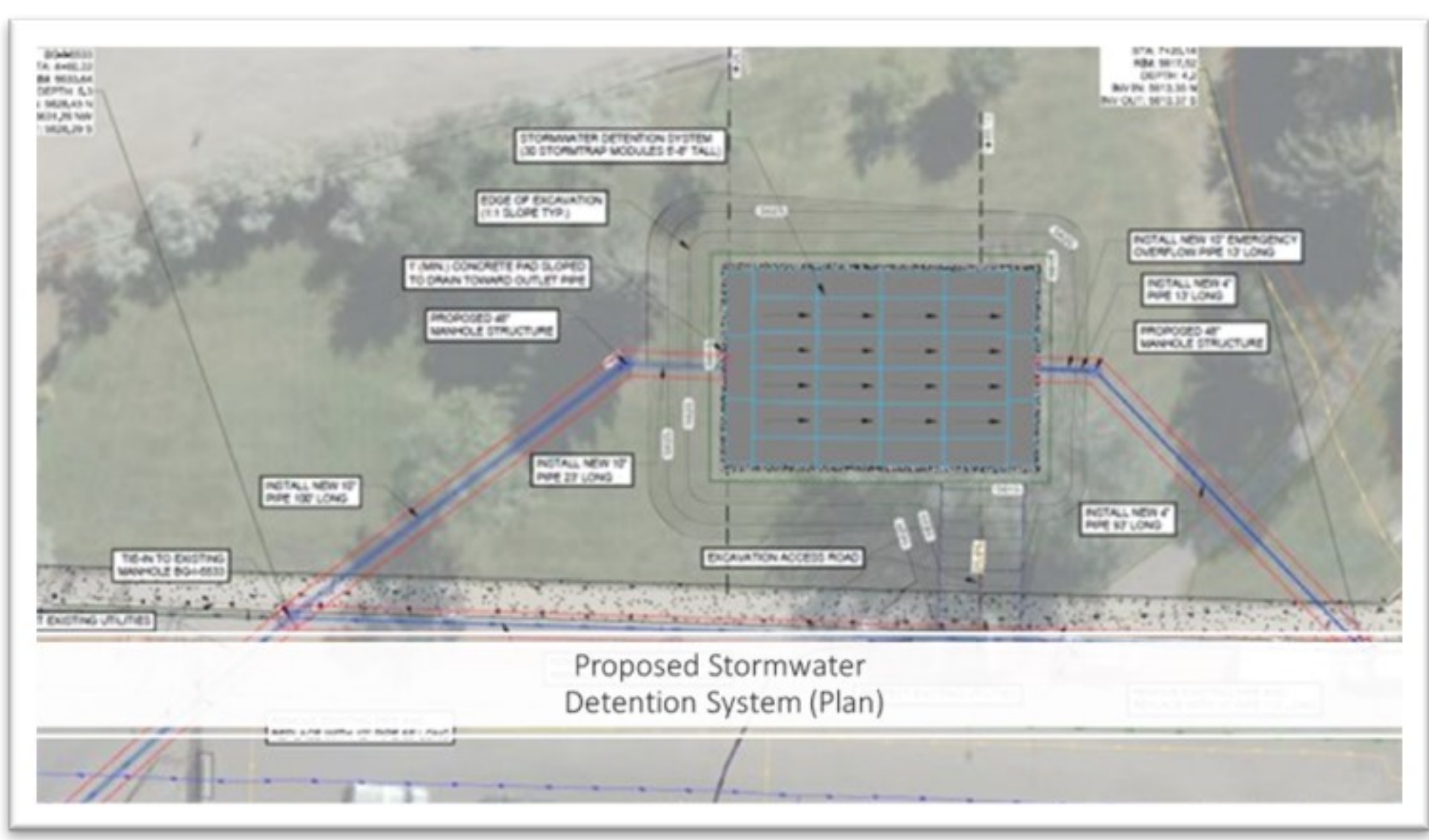
## Butte High School Storm Water Rehabilitation

### Project Team Members:

- |                   |                  |
|-------------------|------------------|
| Brady Cheeney     | TJ Thomas        |
| Rob Cromwell      | Clyde Thompson   |
| Dylan Pannabecker | Marie Waldbillig |
| Reese Spears      | Bryce Williams   |
| Doug Tamcke       |                  |

# THE OPPORTUNITY

Improve	Improve the storm drainage system around BHS.
Design	Design a storm water retention system.
Accommodate	Accommodate 100-year 24-hour rain event volumes.
Prevent	Prevent flooding of BHS during heavy rain events.
Be	Be able to drain detention system within 24-hours of a rain event ending.
Sacrifice	Not sacrifice any current green space.



No More Flooding



## THE SOLUTION

# StormTrap®

MODULAR CONCRETE  
STORMWATER MANAGEMENT

StormTrap is an Underground Storage System  
Modular Design Increases Versatility



- The Proposed System Will:
- Accommodate a 100-year 24-hour rain even.
  - Prevent the Flooding of Butte High School.
  - Detain Approximately 18,250 c.f. of Stormwater to Prevent Surcharging Downstream.

Summary of Project Costs		
Category	Sub Totals	Project Budget
Labor & Equip	\$ 18,101.76	\$250,000.00
Excavating	\$70,663.25	
Piping	\$4,244.94	
Structures	\$126,690.00	
Asphalt	\$1,417.78	
Total Cost		\$221,117.72
Project Estimated Cost		
\$221,117.72		