

raSmith

CREATIVITY BEYOND ENGINEERING



Stormwater Controls: Titletown District

Titletown Limits



RFP Site Plan

SITE PLAN



TITLE TOWN OCTOBER 17, 2014 © ROSSETTI 2014

EXHIBIT 1

2

Proposal Utility Layout Exhibit



Assumptions

- Existing Condition = Mostly Impervious
- Plaza = Park
- Park = Mostly pervious area
- Existing Condition VS Proposed = Less Impervious Area



Assumptions

WRONG

Existing Conditions



RFP Site Plan

SITE PLAN



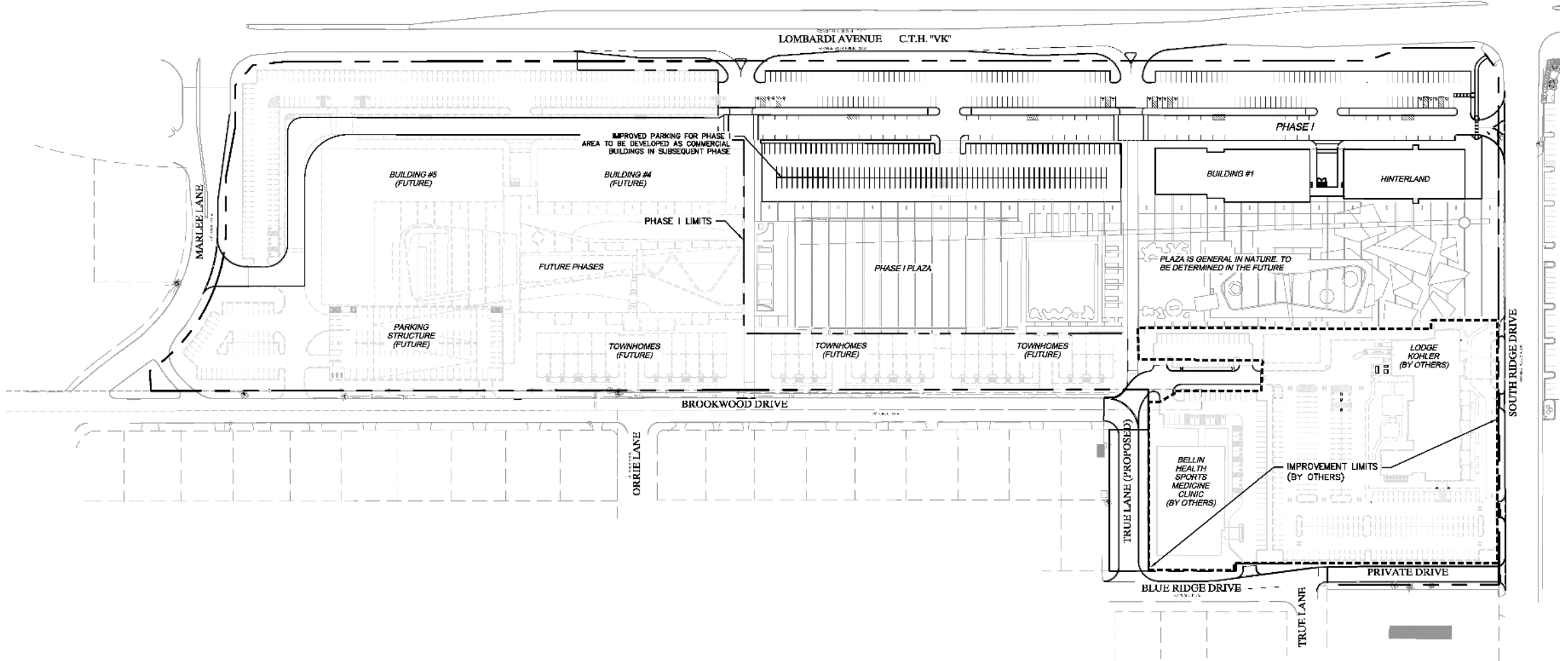
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EXHIBIT 1

2

| Entering Schematic Design

“Final” Site Plan #1



Stormwater Regulations

- **Water Quantity: Exempt from Village & State requirements**
- **Water Quality: 40% TSS removal for parking areas & roads**

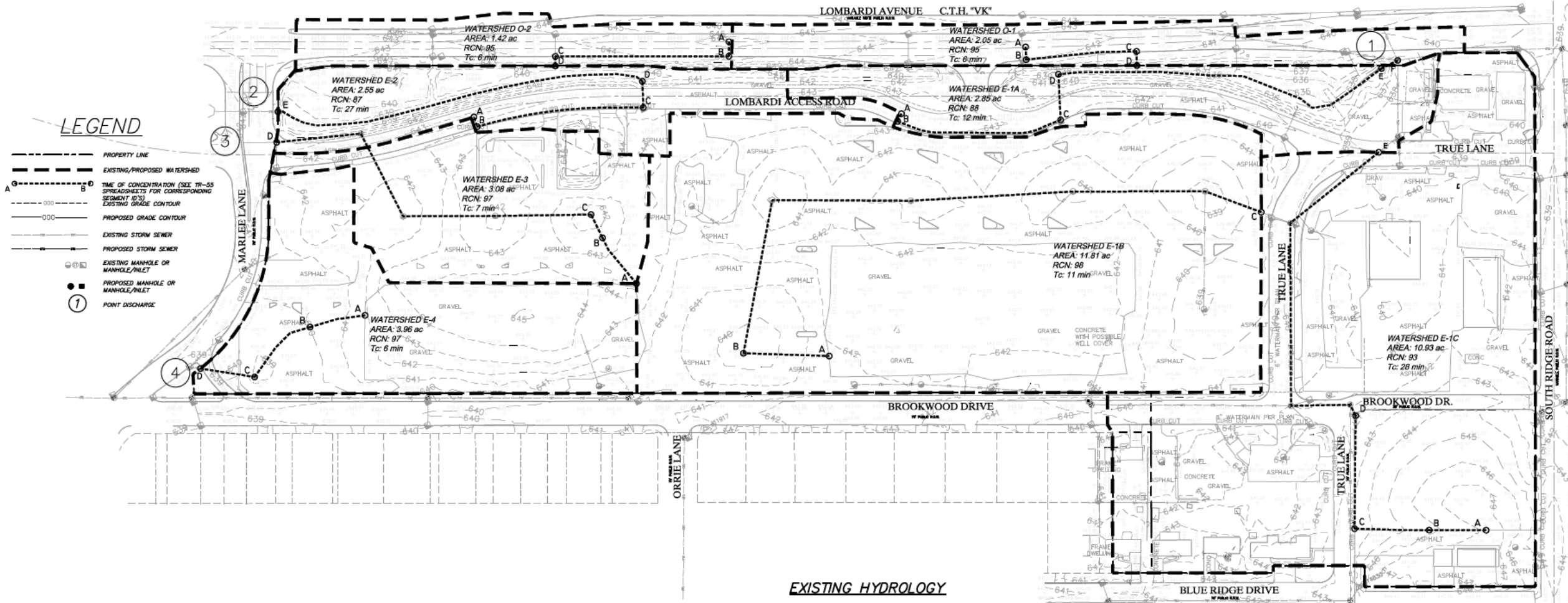


Stormwater Regulations

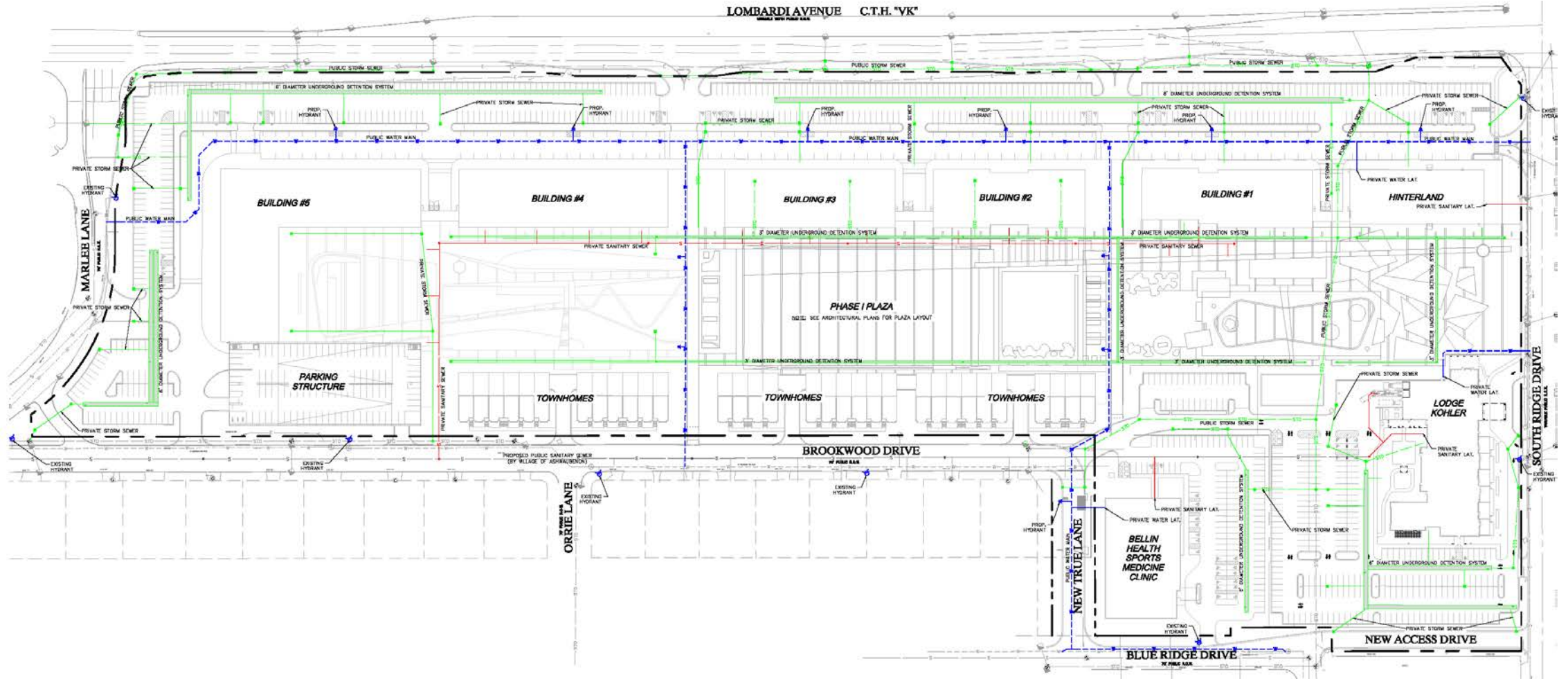
- What we did and why.
- Water Quantity: Matched 2-yr, 10yr & 25-yr Pre-Construction to Post-Construction Flow
- Water Quality: >40% TSS removal for parking lots & drives



Existing Hydrology



Proposed PUD Utility Layout



Hydrology Results

Table 5 – Discharge Rates Summary

Point Discharge 1

Storm Event	Existing	Proposed
2-yr	52.35	37.95
10-yr	78.69	69.80
25-yr	91.68	89.27

Point Discharge 2

Storm Event	Existing	Proposed
2-yr	2.54	0.00
10-yr	4.19	1.65
25-yr	4.71	3.07

Point Discharge 3

Storm Event	Existing	Proposed
2-yr	9.64	8.77
10-yr	14.57	12.93
25-yr	17.02	14.95

Point Discharge 4

Storm Event	Existing	Proposed
2-yr	12.99	10.09
10-yr	19.62	15.75
25-yr	22.91	20.42

TOTAL SITE

Storm Event	Existing	Proposed
2-yr	72.81	56.21
10-yr	109.65	98.95
25-yr	127.84	126.32



SLAMM Results



Table 8 – Proposed SLAMM Output

	Total Suspended Solids	Percent Reduction
Proposed Site w/o Controls	6,443 lbs.	
Proposed Site with Controls	2,533 lbs.	60.69%

*See appendix G for computer generated calculations



Titletown Construction

- And the Pipe Rolls in.....



Titletown Construction

- Isn't the water supposed to be inside the pipe?



Titletown Construction

- Making room for the snow melt piping



Titletown Construction



Titletown Construction

- It looks like the system is going to get tested.



Titletown Construction



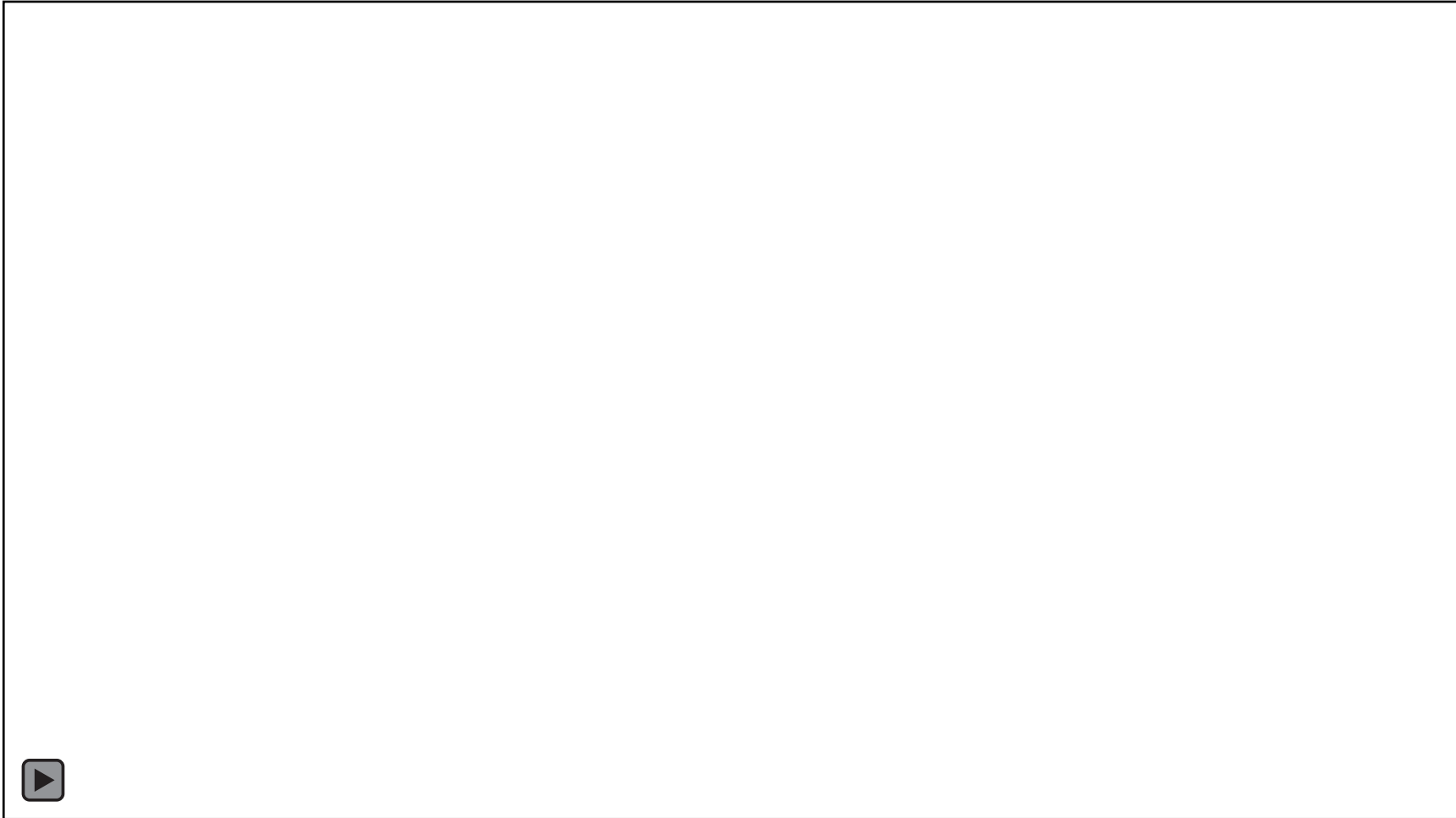
Titletown

Stormwater Management Future

- **Modify SWMP to incorporate final Phase I site plan**
- **Modify SWMP to incorporate revised Phase II site plan**
- **Develop a new SWMP for Parcels south of Brookwood**



“Final” Site Plan #2...55



Titletown Stormwater Controls: Titletown District

Questions ???

