Permit 2024-078: Avienda Regional Stormwater Plan





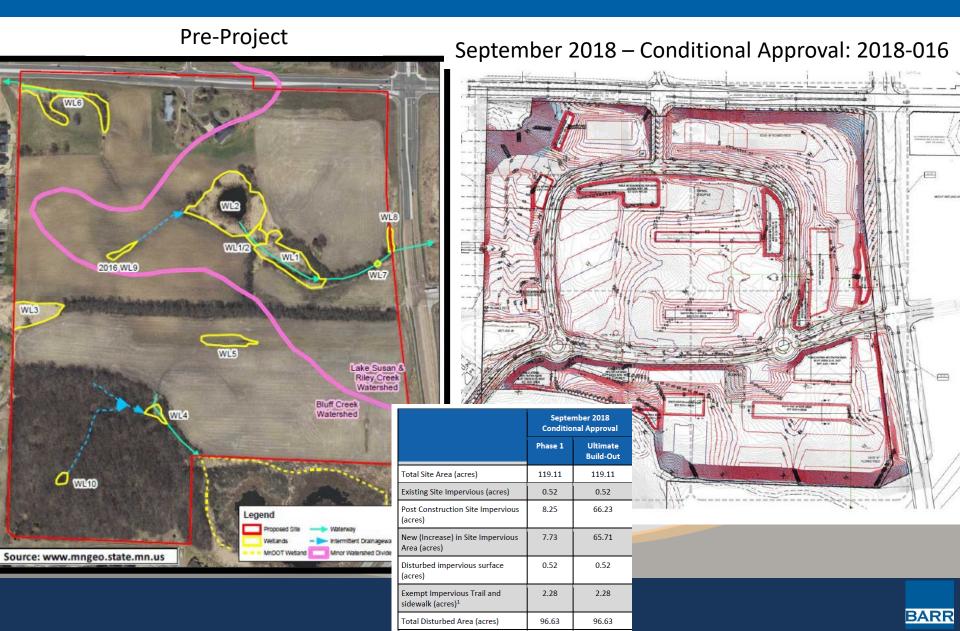
Phase 1 & 2 RPBCWD Issued Permit 2018-016

Phase 3
RPBCWD
Conditionally
Approved Permit
2023-045

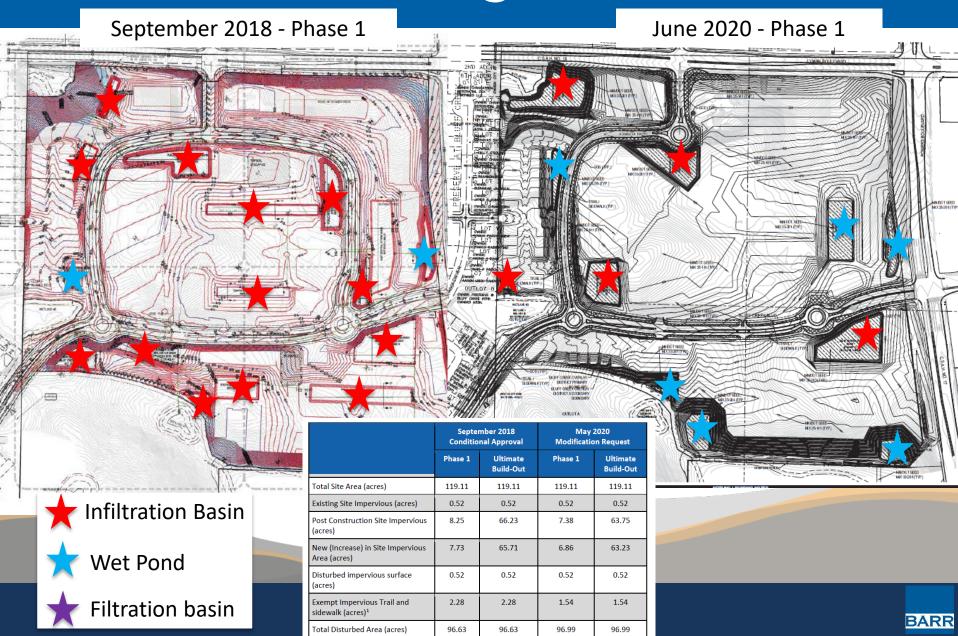
Phase 4
RPBCWD Permit
2024-078
Regional
Stormwater
Under Review



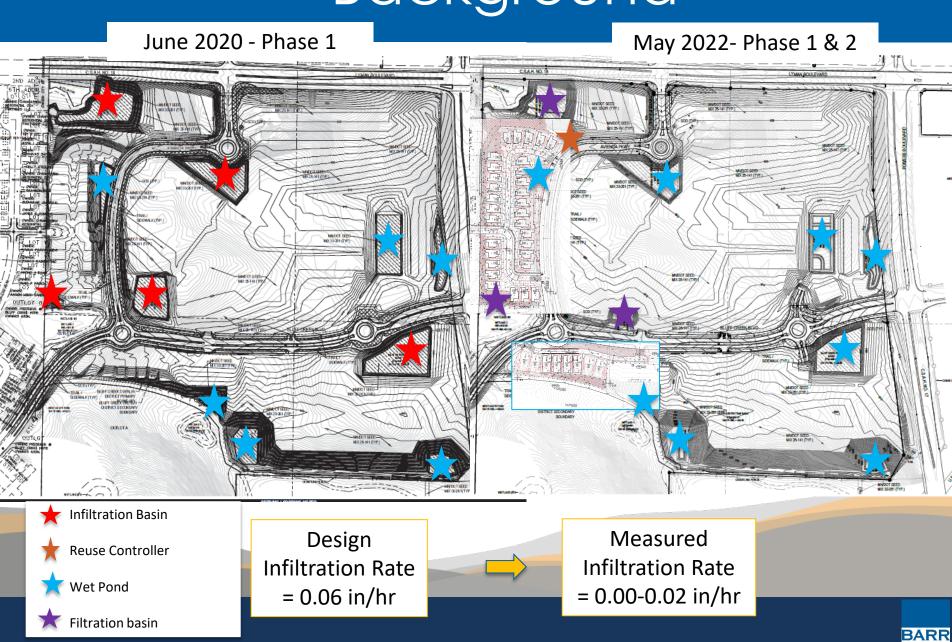
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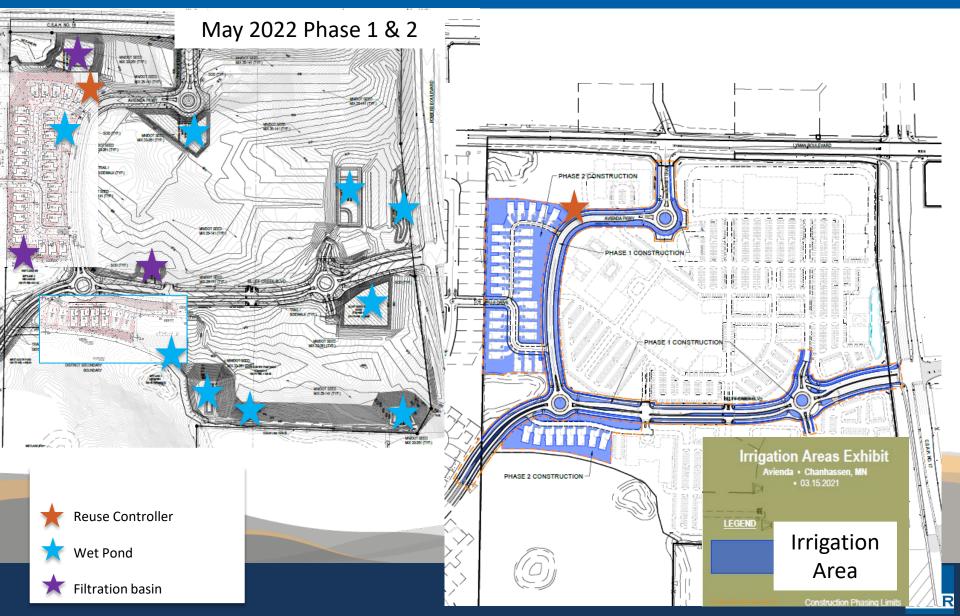
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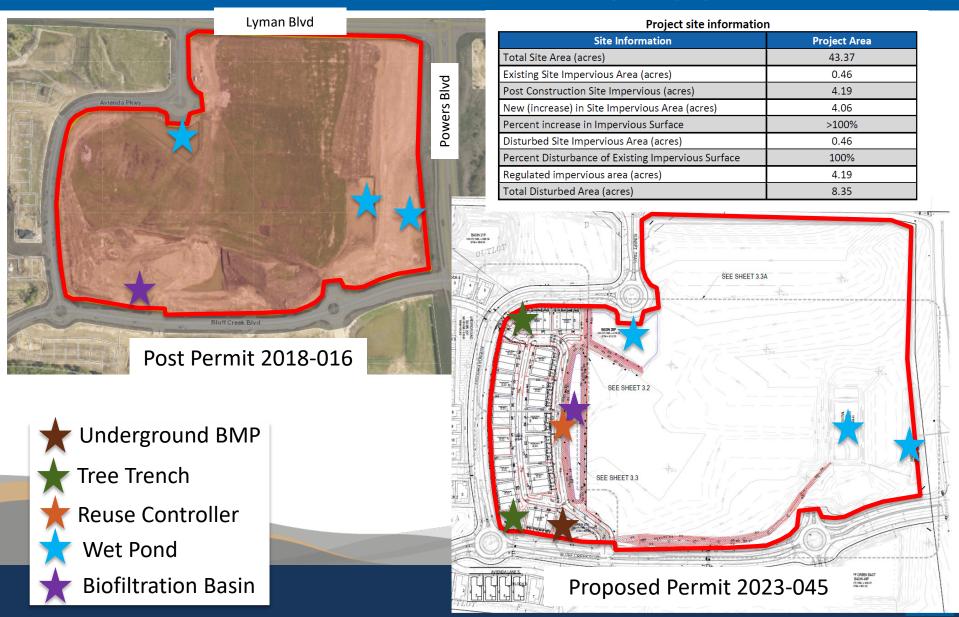
Background



Background – Phase 1 Complete & Phase 2 Nearing Completion



Background – Phase 3: RPBCWD Permit 2023-045 Conditionally Approved



Phase 4: RPBCWD Permit 2024-078 Regional Stormwater Management Plan Under Review



Phase 4: RPBCWD Permit 2024-078 Regional Stormwater Management Plan



Regional SW Management

- (Rule J, subsection 4.0)
 Allows an applicant to comply with the criteria in subsection 3.1 (rate, volume and water quality controls) for all parcels within a catchment area or areas through a regional or subwatershed plan.
- A regional plan must provide stormwater management that meets or exceeds the criteria in subsection 3.1.
- Provide an annual accounting of treatment capacity created and used by landdisturbing activities
- Regional SW facility in place of onsite SW management is not reasonably likely to cause adverse impact

- Regional Stormwater facilities

 2 rainwater harvest and reuse systems

 Connect to existing rainwater harvest and reuse system
- Enlarge 2 existing wet ponds
- Replace 1 wet pond with underground system
- Install 797 trees
- 1 manufactured treatment device (MTD)

Phase 1 & 2 RPBCWD Issued Permit 2018-016

Phase 3 RPBCWD Conditionally Approved Permit 2023-045

Phase 4 RPBCWD Permit 2024-078 Regional Stormwater Under Review



Phase 4: RPBCWD Permit 2024-078 Regional Stormwater Management Plan



- Seeking approval of a regional stormwater management plan for 3 catchments prior to development

 Simplify stormwater compliance for future development

 Streamline future permitting process

 Planning for 37.25 acres regulated
- impervious
- Planning for 26.52 acres pervious
- Implementation timeline of regional stormwater BMPs proposed to occur when development happens
- Regional Stormwater facilities

 2 rainwater harvest and reuse systems

 Connect to existing rainwater harvest and reuse

 - Enlarge 2 existing wet ponds Replace 1 wet pond with underground system Install 797 trees

 - I manufactured treatment device (MTD) Eliminate 3 existing wet pond
- Requesting variances

 From compensatory storage within same floodplain (Rule B, subsection 3.2)

 To allow abstraction to the maximum extent practicable on restricted site rather than full 1.1" from impervious surface

Phase 1 & 2 RPBCWD Issued Permit 2018-016

Phase 3 RPBCWD Conditionally Approved Permit 2023-045

Phase 4 RPBCWD Permit 2024-078 Regional Stormwater Under Review



Floodplain Variance-compensatory storage at or below the same flood elevation and within the floodplain of the same waterbody

Net <u>Increase</u> in Floodplain Storage Lake Susan - 8,436 CY Bluff Creek – 1,891 CY



Regional SW Variance – Allow Regional SW Management on Restricted Site

Required	Required Abstraction	Proposed Abstraction	Proposed Abstraction	Shortfall
Abstraction Depth	Volume	Depth	Volume	
(inches)	(cubic feet)	(inches)	(cubic feet)	
1.1	148,739	0.4	53,616	95,123 CY (64%)
0.55	74,370	0.4	53,616	20,754 CY (28%)

- Conceptually Planning for
 - 37.25 acres regulated impervious
 - 26.52 acres pervious
 - 23.7 acres of irrigation area (combined in 3 catchments)







Permit 2024-078 Regional Stormwater Management – Requested Action

- Extension of the permit review timeline by 60 days, as allowed under Minnesota Statutes section 15.99
- Extent deadline from December 30, 2024 to February 28, 2025
- Allowing time for RPBCWD to work with the applicant on revisions and review/process the revised submittal materials





