

ARLINGTON
National Cemetery
HONOR * REMEMBER * EXPLORE



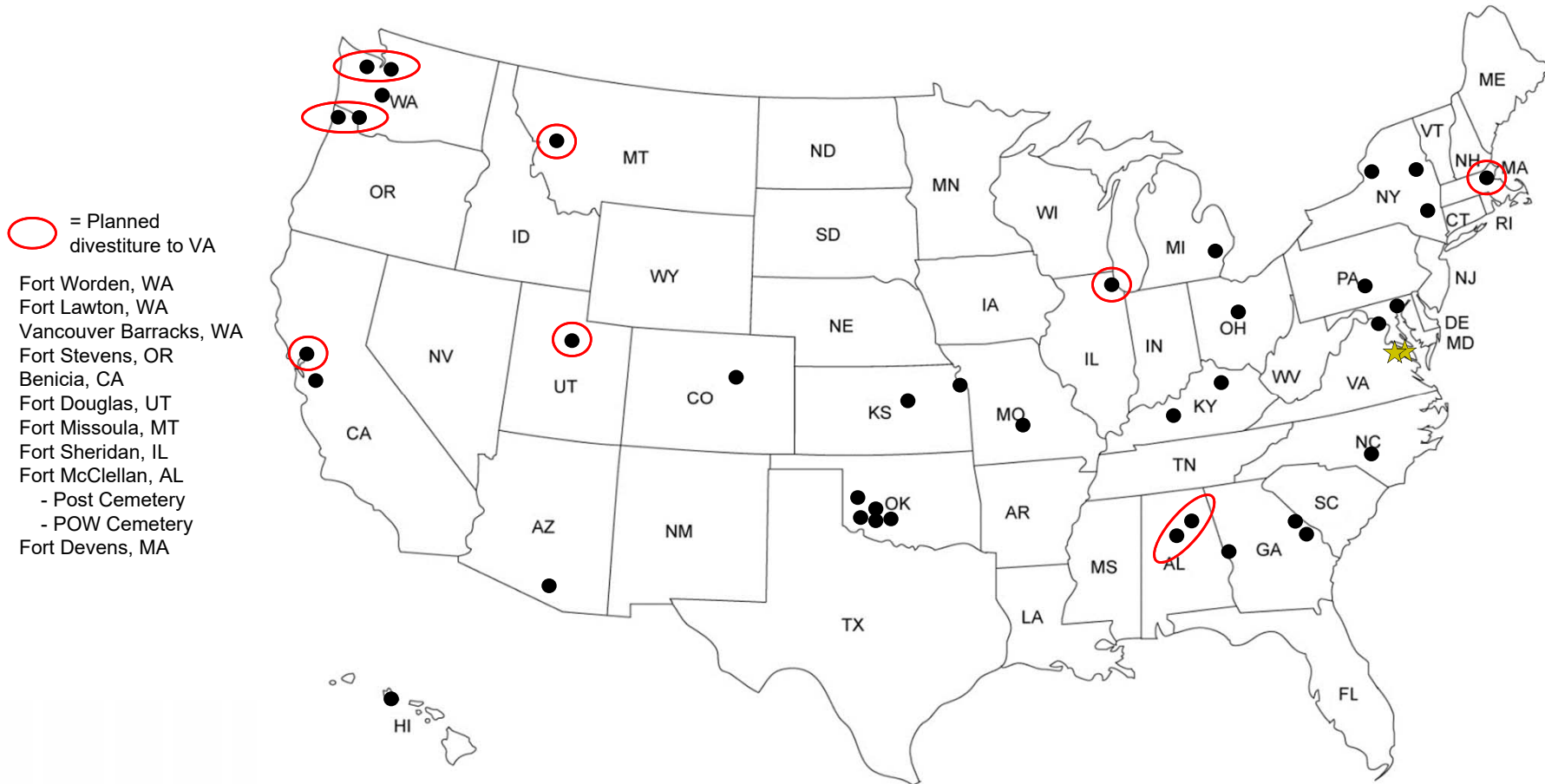
Arlington National Cemetery

Karen Durham-Aguilera, P.E., SES
Executive Director

8 November 2018

UNCLASSIFIED

- Army Cemetery Divestiture to Veterans Affairs – National Cemetery Administration
- Cemetery Expansions
 - Millennium Expansion
 - Defense Access Roads
 - Southern Expansion
- Eligibility & Cemetery Capacity
- Current & Future Projects at ANC
- Interested in Bidding?



* Does not include 600+ private cemeteries on Army property

High demand and the eligible population (past, current, & future)

Capacity & available space

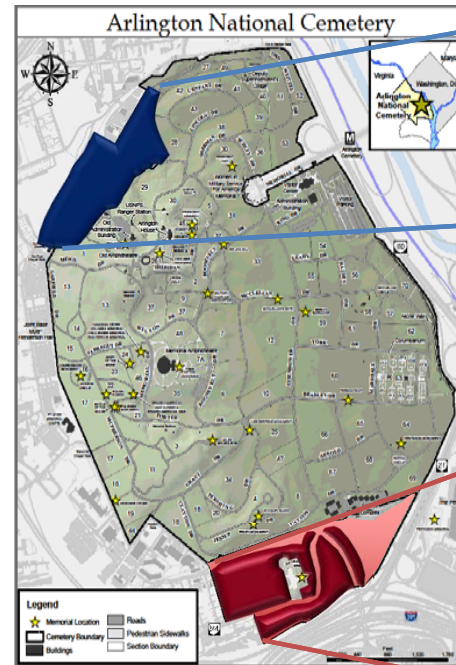
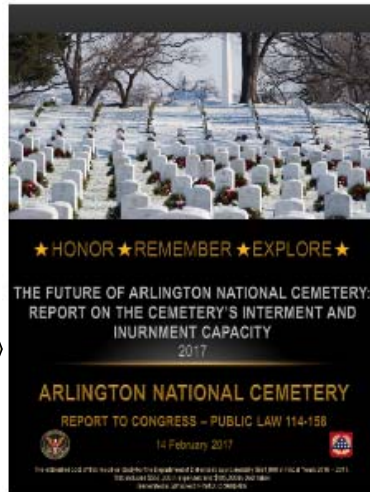
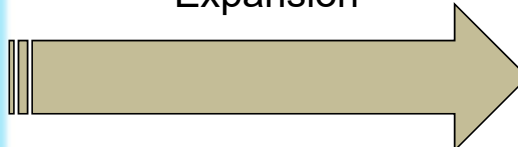
- Millennium
- Southern Expansion
- Other adjacent areas?

100% capacity in 25 years

Feasible, acceptable, and suitable options and/or actions

A National Dialogue

Eligibility and Expansion



- 27,782 burial opportunities
- Extends capacity to early 2040s
- 27 acres
- Complete 2018

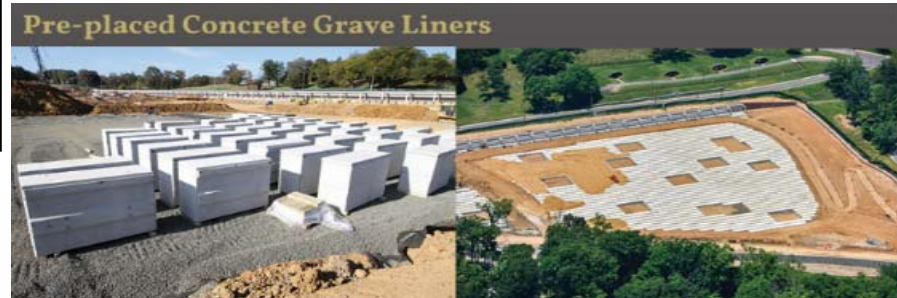
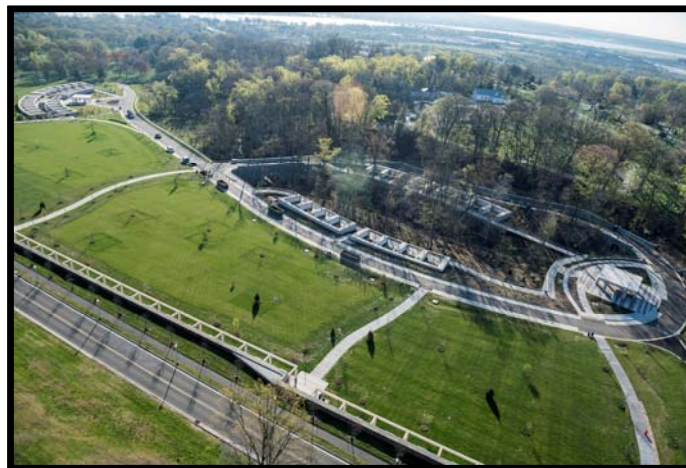


- 40k - 60k burial opportunities
- Extends capacity to early 2050s
- 37 acres
- Under design

“...well into the future.”



Boundary Wall Constructed of Reclaimed Materials



Pre-placed Concrete Grave Liners

- Remaining MILCON authority and project funding granted by 2019 NDAA and FY19 Appropriations bill
- Land acquisition coordination ongoing with Arlington County and VDOT
- NEPA process ongoing – public comment period
- Federal Highway Administration is federal executive agent - intends to solicit design contract this quarter





- Currently in 35% design phase
- FY2022 construction acquisition phase

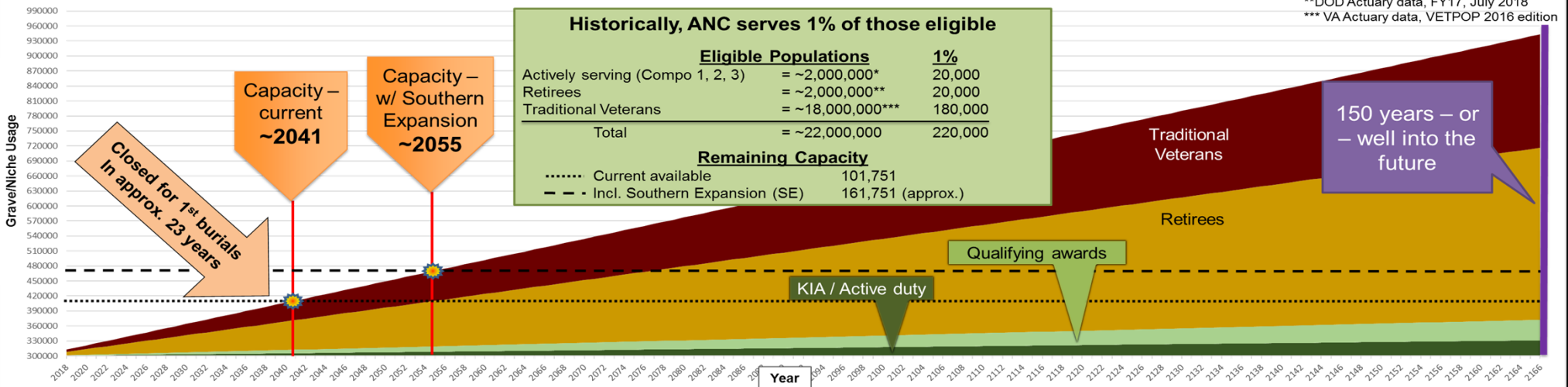




POC: Way, Shannon, MAJ, USA; Data as of 18SEP2018

Forecast of available ANC space by Veteran population and time

*DMDC data, 30JUN2018
**DOD Actuary data, FY17, July 2018
*** VA Actuary data, VETPOP 2016 edition



OVERWHELMING CONSENSUS:

96%

Of the nearly 230,000 respondents want Arlington National Cemetery to remain an active cemetery well into the future.

Veterans

77% of respondents

89%

...agree that ANC should expand where possible, but limit eligibility when necessary.

76%

...agree that ANC should restrict eligibility populations to extend the future of active burials.

Service Members

17% of respondents

90%

Military Families

5% of respondents

87%

Unaffiliated

1% of respondents

87%

Veteran Population:

1.3M
of the Korean conflict
6.4M
of the Vietnam era

VA Cemeteries by the numbers:

136 national cemeteries
110 state, territory, and tribal cemeteries
95% of Veterans have access to a VA cemetery within **75** miles

Operational Capability

Salt, sand, soil storage facility



Tomb of Remembrance



Funeral queuing



Add'l Current/Upcoming

- Admin building renovation

Infrastructure and Utility Upgrade

Road repair



before after

Parking lot repair



Columbarium repair



- Sewer
- Stormwater
- Utility privatization
- Water system modeling

Planning & Resource Mgmt

Cultural resource preservation



Memorial Amphitheater



Tanner Amphitheater



Mast of the Maine

Environmental Compliance

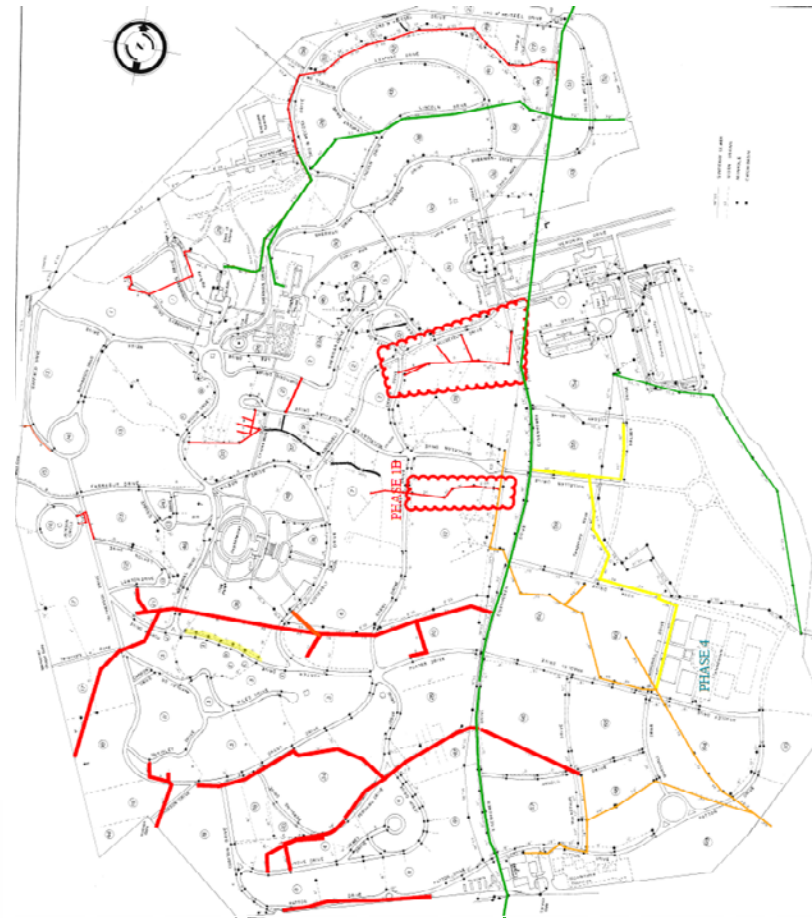


Bio retention basins

- Update master plan
- Implement asset mgmt & service order systems

Improve the cemetery's operational capabilities, fix lingering infrastructure problems, and develop a plan to sustain it all

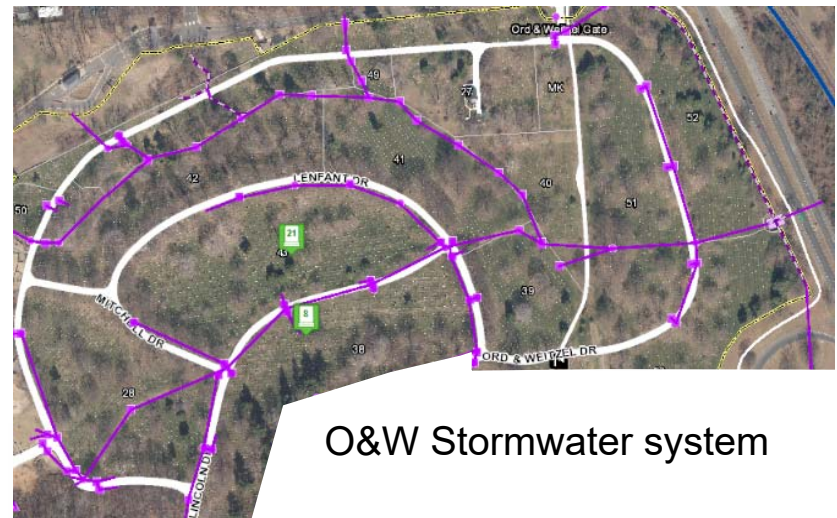
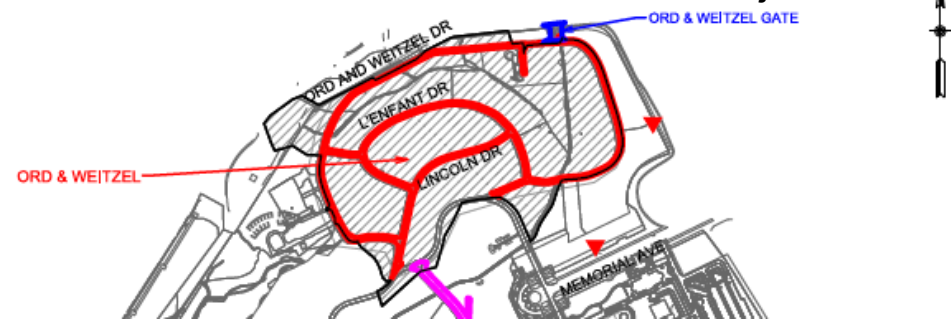
- Post 2010, emphasis to repair neglected infrastructure
- System-wide condition assessment of stormwater system identified critical needs
- Phased projects
- Incorporated into road projects
- Where possible, relocate utilities out of burial sections



“Banking” Stormwater Management Credit

- Ord & Weitzel roads rebuild project incorporated a significant stormwater management effort
- Extensive road projects trigger VA stormwater management regulations for land disturbing activities
- Required a reduction in quantity of contaminants (sediment) and water quantity at the outflow
- Solution are two large, buried manufactured treatment device just before the outfall
- Ord & Weitzel construction is ongoing
 - AE: Parsons Brinkerhoff; GC: Four Tribes
 - \$14.6M

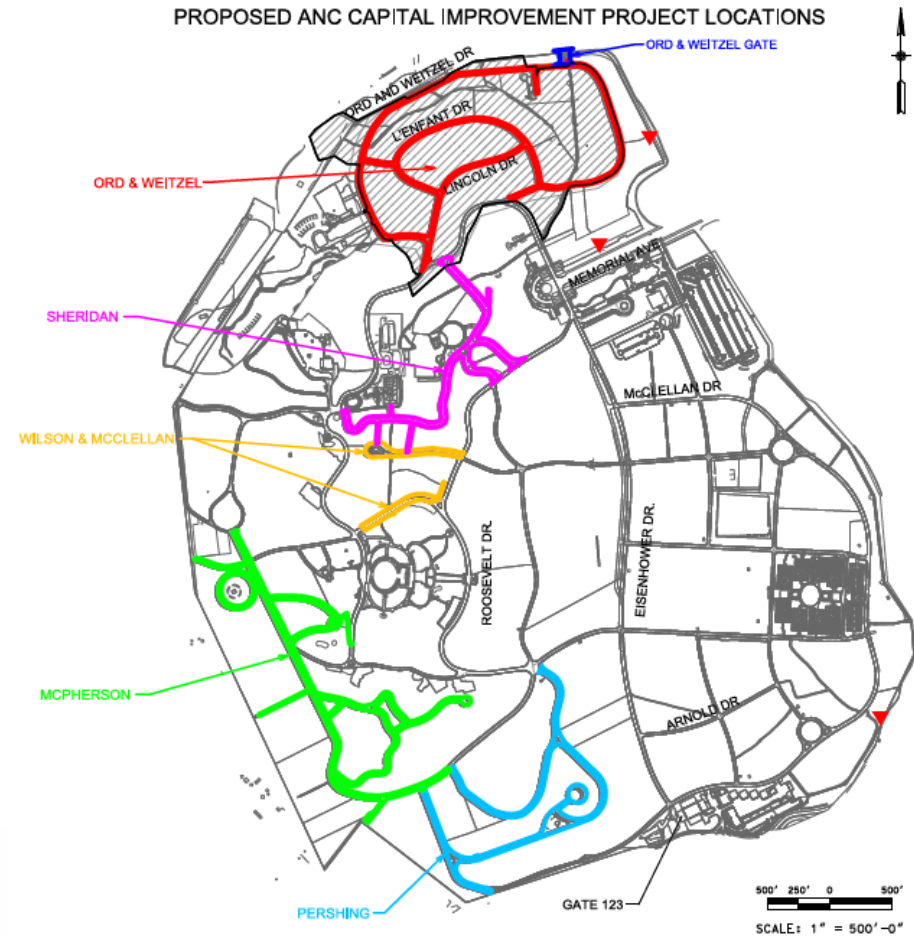
Ord and Weitzel Roads Rebuilt Project



O&W Stormwater system

“Banking” Stormwater Management Credit

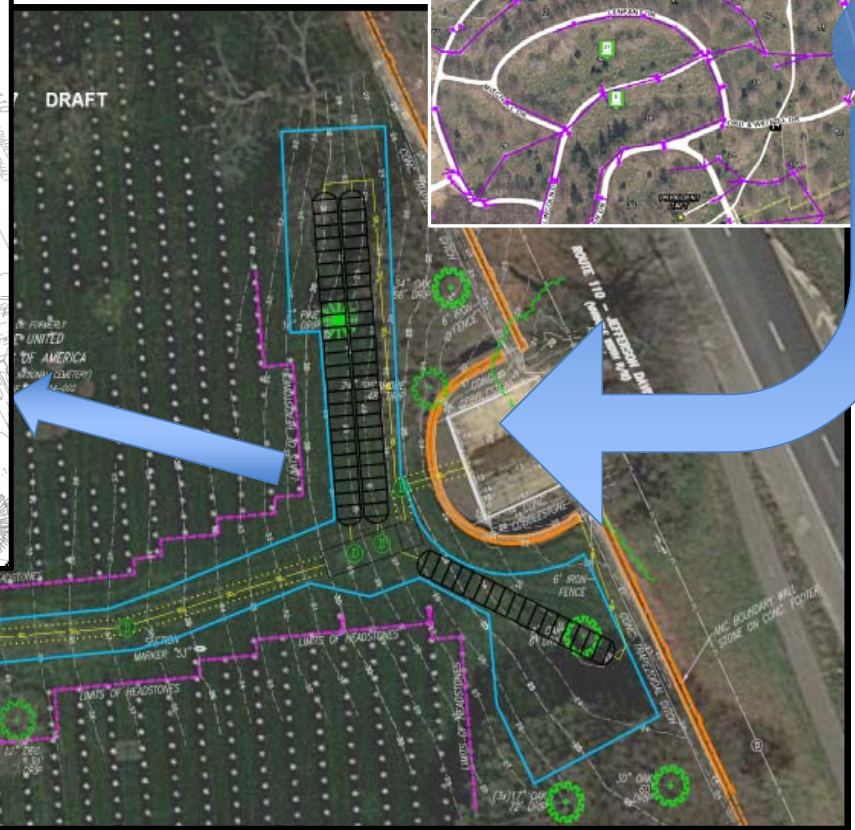
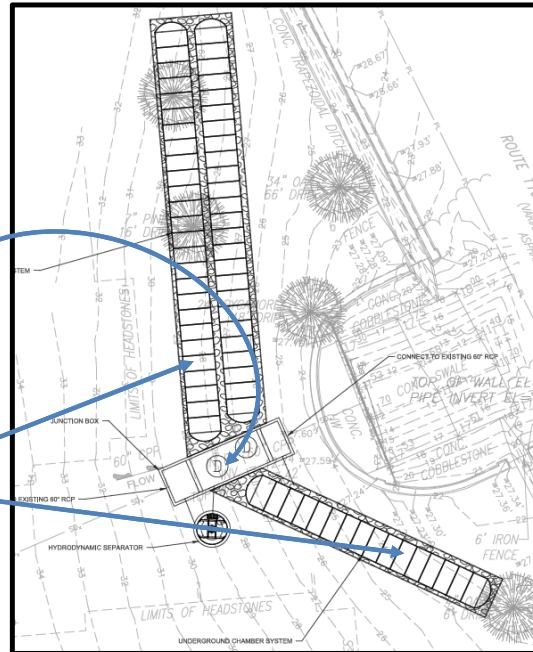
- Future road rebuild projects (shown in the non-red colors) are in tightly confined space with no room to add stormwater management facilities (SWMFs)
- Working with VDEQ, determined the quantity and quality reductions these projects would trigger and designed those into the SWMF in the Ord & Weitzel roads project



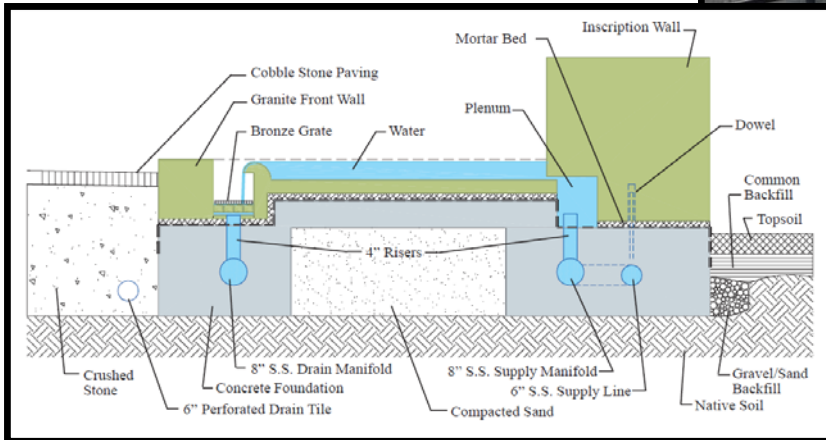
“Banking” Stormwater Management Credit

Two phased system

- Hydraulic chamber to reduce velocities
- Long setting filters to reduce pollutants and provide capacity to reduce



Constructed in 1971







- Administration Building Renovation – DEC 2018 Award
- Amphitheater Exterior Rehab/Cleaning – FY19 Construction Acquisition
- Sanitary Sewer Line Repair – FY19 Construction Acquisition
- Ord & Weitzel Gate Installation – FY19 Construction Acquisition
- McPherson Area Road Repair – FY20 Construction Acquisition
- Sheridan Area Road Repair – FY21 Construction Acquisition
- Boundary Wall Repairs – FY21 Construction Acquisition



Points of Contact

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