Retrofit Reconnaissance Investigation
Arlington County

RRI

WATERSHED: WINDY	SUBWATERSHED:	UNIQUE SITE ID: WR-540

DATE: 12/13/10	ASSESSED BY: JHB/AWL	CAMERA ID:	PICTURES: 6 - 10
GPS ID:	LMK ID:	LAT:	LONG:

SITE DESCRIPTION

Name: Vacation Lane + N. Monroe St.
Address: _____

Ownership: ☒ Public ☐ Private ☐ Unknown
If Public, Government Jurisdiction: ☐ Local ☐ State ☐ DOT ☐ Other: _____

Corresponding USSR/USA Field Sheet? ☐ Yes ☒ No If yes, Unique Site ID: _____

Proposed Retrofit Location:

Storage
- ☐ Existing Pond
- ☐ Below Outfall
- ☐ In Road ROW
- ☐ Other: _____
- ☐ Above Roadway Culvert
- ☐ In Conveyance System
- ☐ Near Large Parking Lot

On-Site
- ☐ Hotspot Operation
- ☐ Small Parking Lot
- ☒ Individual Street
- ☐ Underground
- ☐ Individual Rooftop
- ☐ Small Impervious Area
- ☐ Landscape / Hardscape
- ☐ Other: _____

DRAINAGE AREA TO PROPOSED RETROFIT

Drainage Area ≈ 4.33 / 3.72 acres
Imperviousness ≈ 25 / _____ %
Impervious Area ≈ 1.0895 / .9353

Notes: (A) (B)

Drainage Area Land Use:
- ☒ Residential
  - ☒ SFH (< 1 ac lots)
  - ☐ SFH (> 1 ac lots)
  - ☐ Townhouses
  - ☐ Multi-Family
- ☐ Commercial
- ☐ Institutional
- ☐ Industrial
- ☐ Transport-Related
- ☐ Park
- ☐ Undeveloped
- ☐ Other: _____

EXISTING STORMWATER MANAGEMENT

Existing Stormwater Practice: ☐ Yes ☒ No ☐ Possible
If Yes, Describe:

SW runoff → CB

Describe Existing Site Conditions, Including Existing Site Drainage and Conveyance:
Existing Street Width: 36'

Existing Head Available:

4' (both sides)

Note where points are measured from: ~~(i.e. street elevation to~~ catch basin invert, manhole rim to catch basin invert, other)

Unique Site ID: WR-540

PROPOSED RETROFIT

Purpose of Retrofit:

☒ Water Quality ☐ Recharge ☐ Channel Protection ☐ Flood Control
☐ Demonstration / Education ☐ Repair ☐ Other:_____

Retrofit Volume Computations - Target Storage:

(A) $WQ_V = 6194.07\ ft^3$
(B) $WQ_V = 5440.46\ ft^3$

Retrofit Volume Computations - Available Storage:

(A) $T_V = 848.0\ ft^3$
(B) $T_V = 794.25\ ft^3$

Proposed Treatment Option:

☐ Extended Detention ☐ Wet Pond ☐ Created Wetland ☒ Bioretention
☐ Filtering Practice ☐ Infiltration ☐ Swale ☐ Other:_____

Describe Elements of Proposed Retrofit, Including Surface Area, Maximum Depth of Treatment, and Conveyance:

(A) 8-10'W x 80'L
(B) 8-10'W x 75'L

Available Width:	8-10' ≈ 2' of ROW both sides.
Available Length:	75'/80'
Available Area:	
Ponding Depth:	
Soil Depth:	

SITE CONSTRAINTS

Adjacent Land Use:

☒ Residential ☐ Commercial ☐ Institutional
☐ Industrial ☐ Transport-Related ☐ Park
☐ Undeveloped ☐ Other:_____

Possible Conflicts Due to Adjacent Land Use? ☐ Yes ☒ No

If Yes, Describe:

Access:

☒ No Constraints
Constrained due to
☐ Slope ☐ Space
☐ Utilities ☐ Tree Impacts
☐ Structures ☐ Property
Ownership
☐ Other:_____

Conflicts with Existing Utilities:

	Yes	Possible/ Modifiable	No	Unknown
Sewer:	☐	☒ A	☒	☐
Water:	☐	☒ B	☐	☐
Gas:	☐	☒ A	☐	☐
Electric to Streetlights:	☐	☒ A	☒ B	☐
Other:	☐	☐	☐	☐

_____
_____

Potential Permitting Factors:

Dam Safety Permits Necessary	☐ Probable	☒ Not Probable
Impacts to Wetlands	☐ Probable	☒ Not Probable
Impacts to a Stream	☐ Probable	☒ Not Probable
Floodplain Fill	☐ Probable	☒ Not Probable
Impacts to Forests	☐ Probable	☒ Not Probable
Impacts to Specimen Trees	☐ Probable	☒ Not Probable

How many?_____
Approx. DBH_____

Other factors:_____
_____
_____

Soils:

Soil auger test holes:	☐ Yes	☒ No
Evidence of poor infiltration (clays, fines):	☐ Yes	☒ No
Evidence of shallow bedrock:	☐ Yes	☒ No
Evidence of high water table (gleying, saturation):	☐ Yes	☒ No

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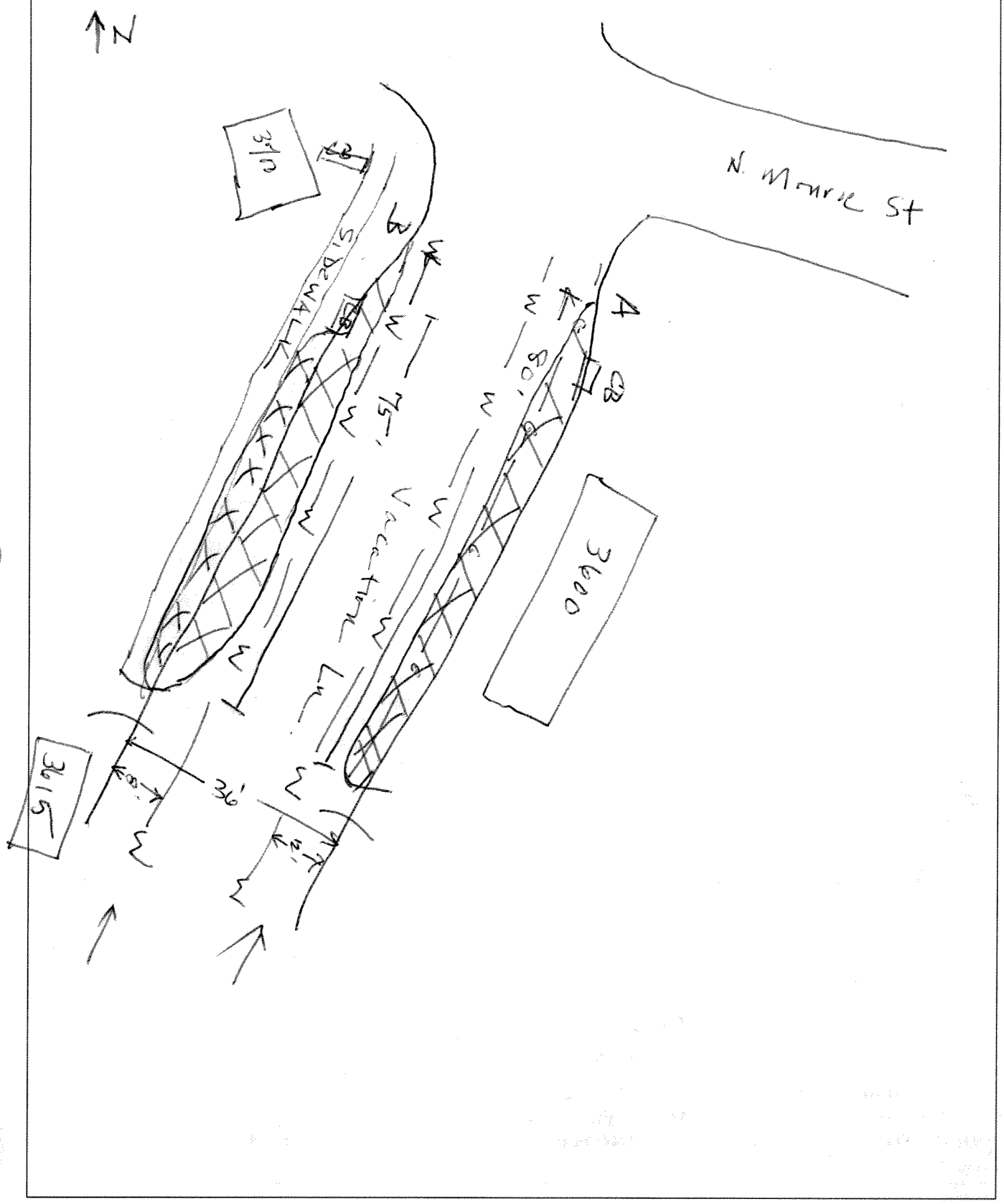
SKETCH



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Design or Delivery Notes

A Bioretention — 80' L x 8-10' W
* Could use area behind curb for extra width
* gas / water - utility poles present

B Bioretention — 75' L x 8-10' W
* Could use area behind curb for extra width
* water ~ 8' from curb

Follow-up Needed to Complete Field Concept

- [ ] Confirm property ownership
- [x] Confirm drainage area
- [ ] Confirm drainage area impervious cover
- [ ] Confirm volume computations
- [ ] Complete concept sketch
- [ ] Obtain existing stormwater practice as-builts
- [ ] Obtain site as-builts
- [ ] Obtain detailed topography
- [x] Obtain utility mapping
- [ ] Confirm storm drain invert elevations
- [ ] Confirm soil types
- [ ] Other: _____

Initial Feasibility and Construction Considerations

May not be possible / feasible to do both A + B
Considerations would be drainage area, utilities, street width

Site Candidate for Further Investigation:	☐ Yes	☐ No	☐ Maybe
Is Site Candidate for Early Action Project(s):	☐ Yes	☐ No	☐ Maybe
If no, site candidate for other Restoration Project(s):	☐ Yes	☐ No	☐ Maybe

If yes, type(s): _____

Unique Site ID: _____