

SECTION 100: I-95, I-895(N) SPLIT TO NORTH OF MD 43



Focus Group Meeting #5

April 27, 2004

6:30 – 8:30 PM

Perry Hall Middle School

Real Estate Acquisition

- 1) Property Identification
- 2) Appraisals
- 3) Negotiations
- 4) Relocation Assistance

Average Travel Speed (MPH)

I-895 to New Forge Road

		AM Peak		PM Peak	
		Northbound	Southbound	Northbound	Southbound
2002 Existing Conditions		≥ 55	40	40	≥ 55
2025 No-Build Condition		55	<20	<20	≥ 55
2025 Alternate 2 – All General Purpose Lanes (6)		≥ 55	50	45	≥ 55
2025 Alternate 3	General Purpose Lanes (4)	55	30	35	≥ 55
	Managed Lanes (2)	≥ 55	≥ 55	≥ 55	≥ 55



Environmental Impacts / Mitigation



Summary of Impacts

RESOURCE CATEGORY	No-Build Alternate	General Purpose Lanes Alternate	Managed Lanes Alternate
Residential ROW (acre)	0	15.5	26.4
Commercial ROW (acre)	0	6.5	14.1
Other ROW (acre)	0	38.2	49.6
TOTAL ROW (acre)	0	60.2	90.1
Residential Displacements (#)	0	2 residences 5 outbuildings	5 residences 5 outbuildings
Commercial Displacements (#)	0	0	3
Wetlands (acre)	0	5.1	6.4
Stream Impacts (linear feet)	0	11,114	15,956
Floodplain (acre)	0	39.4	44.9
Woodland (acre)	0	155.7	210.6
Threatened/Endangered Species (#)	0	0	0
NR/NRE Historic Sites (#)	0	0	0
NR/NRE Archaeological Sites (#)	0	0	1
Noise Sites (#)	16 NSAs	17 NSAs	17 NSAs
Air Quality Sites (#)	0	0	0
Section 4(f) Resources (acre)	0	0	0

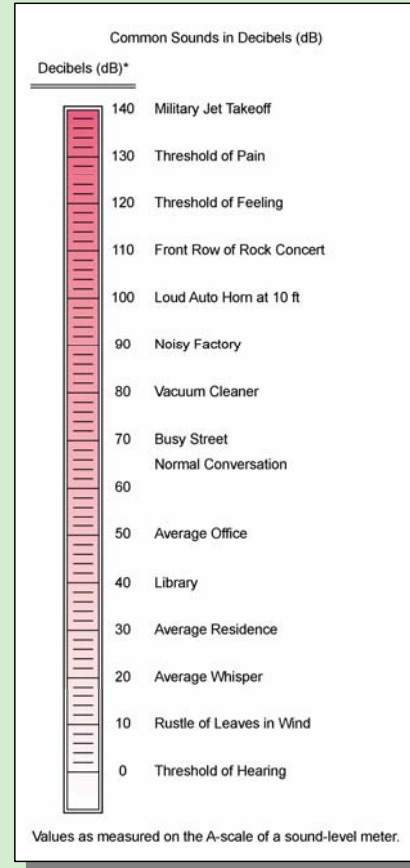
Mitigation Strategies

- Wetland Replacement
- Stream Restoration
- Reforestation
- Floodplain Management
- Stormwater Management
- Sediment Erosion Control
- *Visual/Aesthetics*
- *Noise Attenuation*



Moore's Run Floodplain

Examples of Decibel Measurements



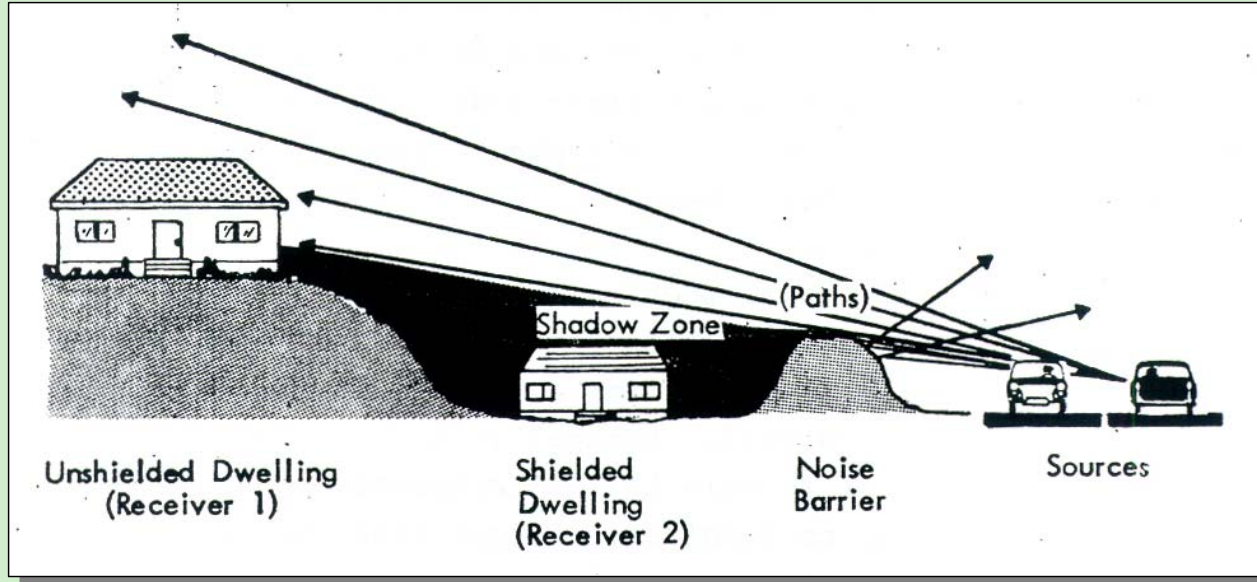
Noise Abatement Criteria

FHWA Noise Abatement Criteria (Hourly A-Weighted Sound Level – Decibels (dBA))

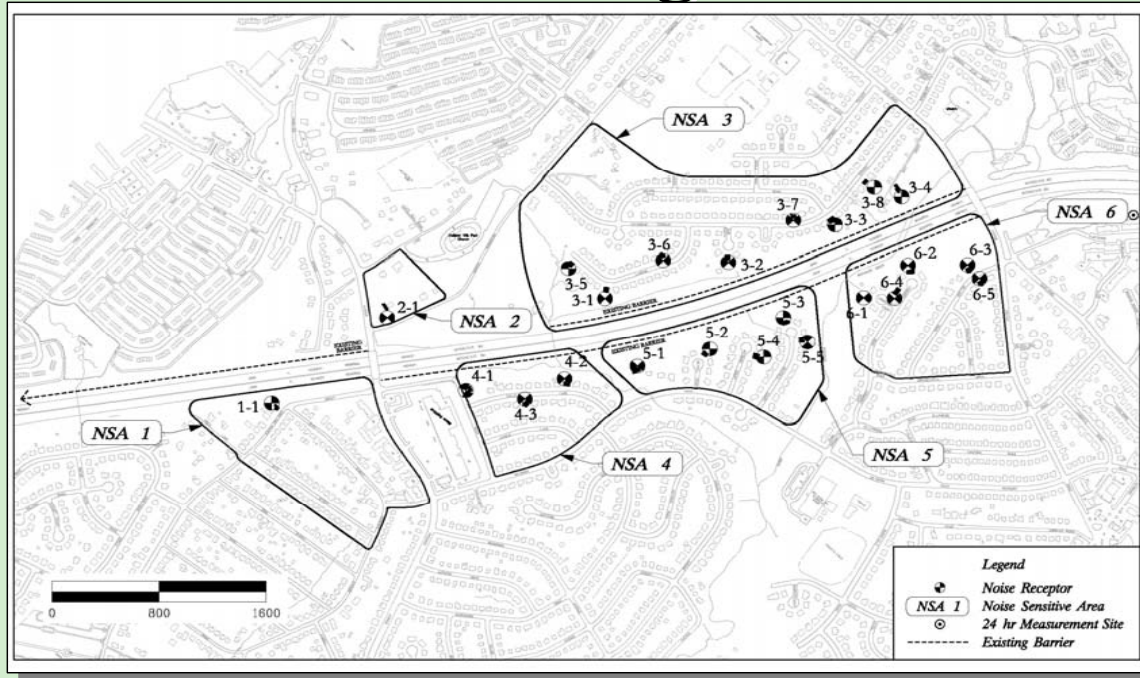
ACTIVITY CATEGORY	L_{eq}	DESCRIPTION OF ACTIVITY CATEGORY
A	57 dBA (exterior)	Land on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue its intended purpose
B	67 dBA (exterior)	Picnic areas, recreation areas, playgrounds, active sports areas, parks, residences, motels, hotels, schools, churches, libraries and hospitals
C	72 dBA (exterior)	Developed lands, properties, or activities not included in Categories A or B above
D	None	Undeveloped lands
E	52 dBA (interior)	Residences, motels, hotels, public meeting rooms, schools, churches, libraries, hospitals and auditoriums

Noise Barrier Effects

Source-Path-Receiver Concept



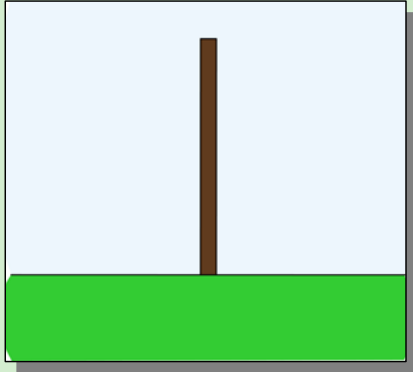
Noise Sensitive Areas / Monitoring Sites



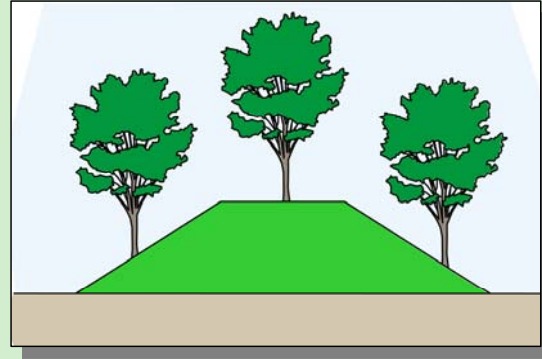
Noise Sensitive Areas / Monitoring Sites

NSA	Receptor No.	Receptor Location	Adjusted Peak Hour Noise Level ^{1, 2, 3}	Design Year Noise Levels ¹		
				No-Build Alternative	General Purpose Alternative	Managed lanes Alternative
				Noise Level ^{1, 3}	Noise Level ^{1, 3}	Noise Level ^{1, 3}
1	1-1	5701 Hamilton Avenue	64	69	72	72
2	2-1	5200 McCormick Avenue	63	66	68	68
3	3-1	5533 Lanham Way	61	63	64	66
	3-2	5306 Dew Garth	63	63	64	65
	3-3	5633 Daybreak Terrace	61	65	65	66
	3-4	5305 Zangs Lane	65	65	65	66
	3-5	519 Lanham Way	65	64	64	66
	3-6	5536 Lanham Way	59	61	62	63
	3-7	5626 Daybreak Terrace	58	62	62	63
	3-8	5703 Daybreak Terrace	58	63	65	65
4	4-1	5203 Horst Avenue	58	63	64	64
	4-2	8111 Callo Lane	61	61	62	64
	4-3	8120 Callo Court	53	54	55	56
5	5-1	1608 Weyburn Road	62	61	62	66
	5-2	7 Weyhill Court	61	62	62	73
	5-3	20 Weyfield Court	63	62	63	74
	5-4	9 Weyburn Court	55	59	59	67
	5-5	17 Wyfield Court	58	57	57	67
6	6-1	1701 Commons Court	61	61	61	73
	6-2	6201 Commons Road	61	62	62	75
	6-3	1828 William Court	58	63	64	71
	6-4	6205 Commons Road	54	56	56	62
	6-5	1821 William Road	59	64	64	69

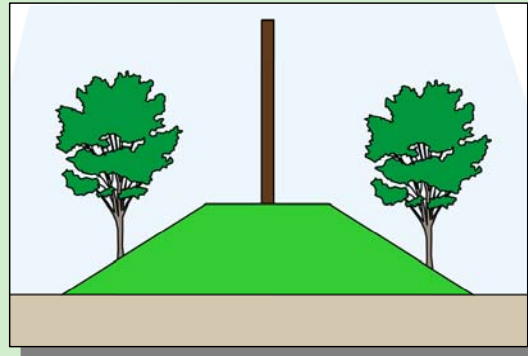
Noise Barrier Types



Wall



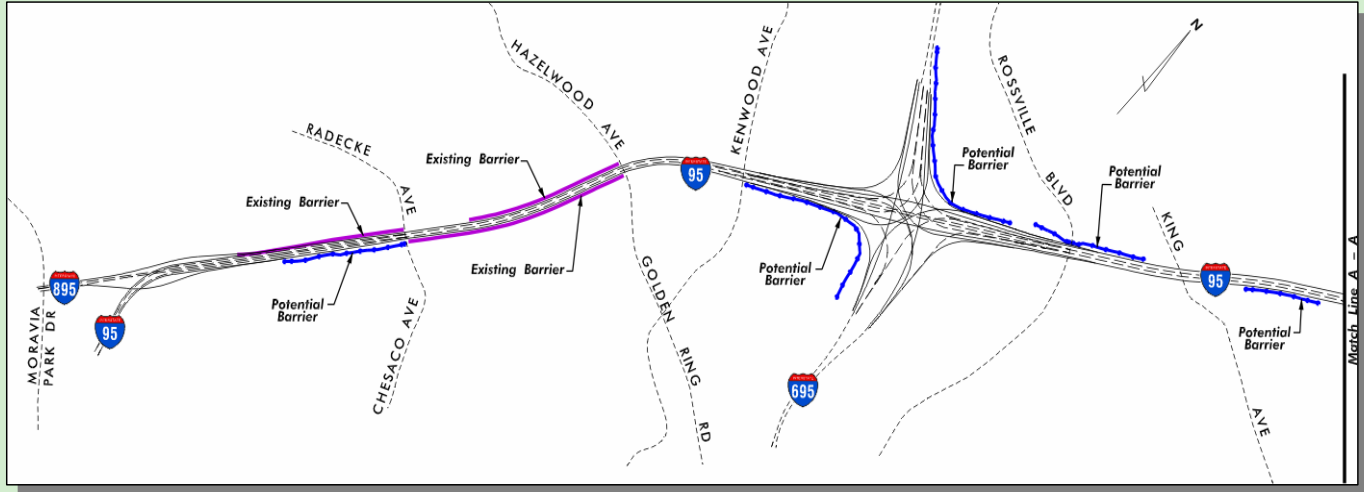
Berm



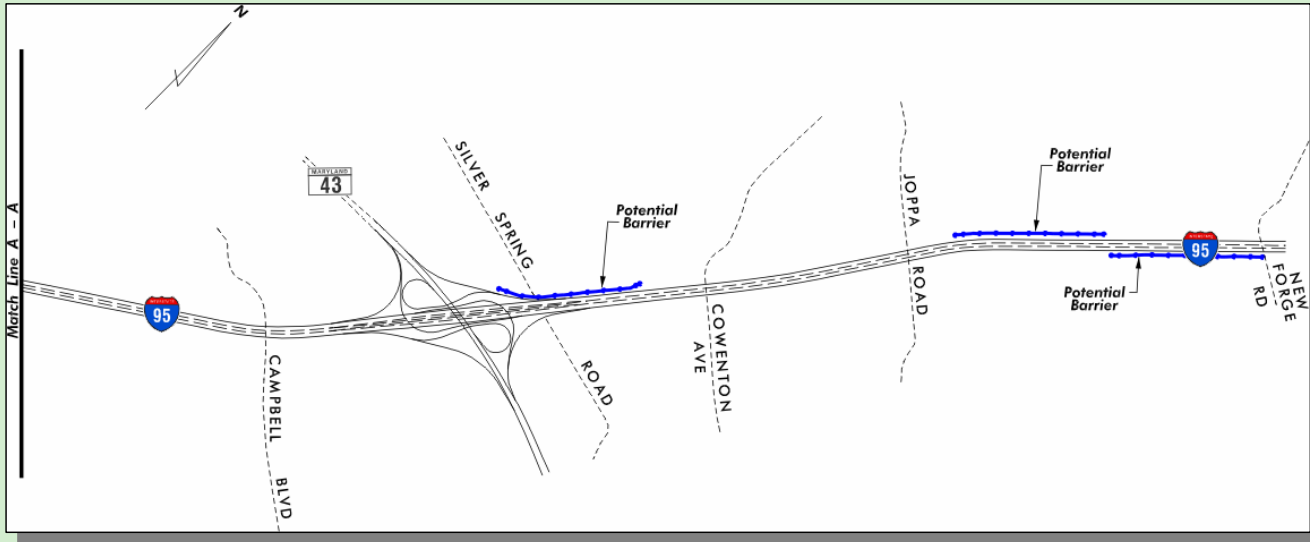
Berm/Wall Combination

Potential Noise Barrier Locations

(Alternate 3 – Managed Lanes)



Potential Noise Barrier Locations (Alternate 3 – Managed Lanes)



Assessment of Feasibility & Reasonableness

Feasibility:

- Noise reduction
- Effects on pedestrian or vehicular access
- Effects on significant utility impacts
- Effects on existing environmental resources

Reasonableness:

- Extent of adherence to impact criteria
- Cost per benefited residence

Aesthetics



Highway Aesthetic Treatments – Noise Barriers



Noise Barrier with a Patterned Concrete Finish along I-95 near the I-895 Split

Examples of Wall Treatments for Sound Barriers



Noise Barrier with a Patterned Concrete Finish along I-95 near the I-895 Split

Highway Aesthetic Treatments – Noise Barriers

**Example of a
Sound Barrier
with a Brick
Pattern Concrete
Formliner Finish**



A Sound Barrier along US 50 near Annapolis

Highway Aesthetic Treatments – Noise Barriers

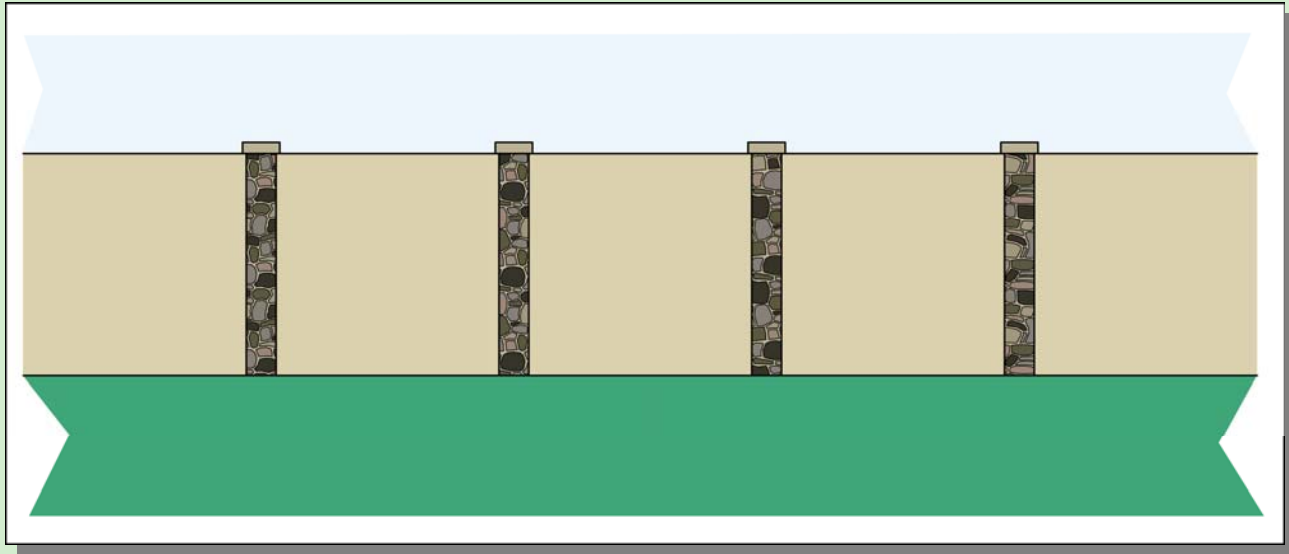


Concrete Formliner in a Stone Pattern on a Sound Barrier and Retaining Wall along Canal Parkway in Allegany County



Sound Barrier with a Stone Pattern Concrete Formliner Finish along I-83 near Timonium

Highway Aesthetic Treatments – Noise Barriers



Example of a Decorative Treatment

Highway Aesthetic Treatments – Retaining Walls



*Retaining Wall with a Natural
“Bark” Pattern Concrete Formliner
Finish*

Examples of Wall Treatments for Retaining Walls



*Retaining Wall with a Stone
Pattern Concrete Formliner Finish*

Highway Aesthetic Treatments – Retaining Walls



Stone Pattern Concrete Formliner Finish

Examples of Wall Treatments for Retaining Walls



Stone Pattern Concrete Formliner Finish

Exposed Concrete Aggregate Finish



Highway Aesthetic Treatments - Paving



Colored pavement delineates the shoulder on this highway in the Washington, D.C. area

Examples of road paving where the shoulder is a different color than the travel lanes; colored pavement integral to the asphalt



Colored Pavement Shoulders along I-495 in the Washington, D.C. area

Highway Aesthetic Treatments – Lighting

Example of Highway Light Fixtures



Light Fixtures along I-95, south of the Fort McHenry Tunnel



Section 100: I-95, I-895(N) Split to North of MD 43



Future Focus Group Meeting

June 8, 2004

Perry Hall Middle School

6:30 – 8:30 PM

Preview of information for the
June 29, 2004 Public Hearing

PUBLIC HEARING
June 29, 2004
Perry Hall Middle School

- **Availability of Environmental Documents**
- **Advertisement of Public Hearing**
- **Meeting Brochure**
- **Displays**
- **Public Testimony (Oral and Written)**
- **Hearing Transcript**
- **Formal Presentation**
 - Purpose and Need
 - Environmental Resources
 - Description of Alternates
 - Anticipated Impacts
 - Potential Mitigation Measures
- **Response to Comments**