Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

NOISE TECHNICAL REPORT

APPENDIX F

MITIGATION ANALYSIS RESULTS



JANUARY 2026

1-14-B
1-13-B
1-12-C
1-11-B
G-1-04
F-1-06
1-15-E
OLD MILL BOTTOM RD
50
301
BARRIER SYSTEM WEST-1
1-05-C
71 65 6
R-115a
F-1-02
66 62 4
M-112
70 61 9
M-113
67 62 5
M-114
1-06-B
63 57 6
R-116
58 56 2
R-117
58 56 2
R-115
FERGUSON RD
OLD MILL BOTTOM RD S
53 52 0
R-118
52 52 0
R-119

Evaluated Barrier System – Meets Criteria

Evaluated Barrier System – Does Not Meet Criteria

67 60 7 Build Barrier Predicted Noise Levels & Insertion Loss

Impacted & Benefited

Non-Impacted & Benefited

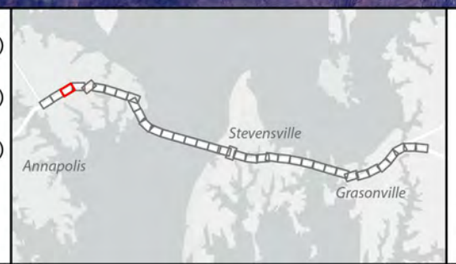
Land Use Activity Category B Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C Noise Sensitive Area (EXTERIOR)

Land Use Activity Category E Noise Sensitive Area (EXTERIOR)

Land Use Activity Category F Non-Noise Sensitive Area

Land Use Activity Category G Non-Noise Sensitive Area



1" = 200 Feet

0 50 100 200 300 400 Feet

MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives

F-1-03
1-08-E
F-1-04
1-06-B
G-1-02
1-10-C
BROADNECK RD
50
301
1-11-B
1-09-C
G-1-01
CAPE SAINT CLAIRE RD
COLLEGE PKWY
BUSCHS FRONTAGE RD
BARRIER
SYSTEM WEST-5
55/55/0 R-288
46/46/0 R-293
2-17-B
43/43/0 R-292
50/50/0 R-290
65/60/5 M-229
65/57/7 R-287
63/60/3 R-289
63/59/4 R-291
73/62/11 M-228
2-15-B
SAINT MARGARETS RD
MARYLAND 179
HOLLY DR N
Whitehall Creek
2-02-E
2-16-E
E COLLEGE PKWY
2-01-B
G-2-01
WHITEHALL RD
F-2-07

Evaluated Barrier System – Meets Criteria

Evaluated Barrier System – Does Not Meet Criteria

67/60/7 Build Barrier Predicted Noise Levels & Insertion Loss

Impacted & Benefited

Non-Impacted & Benefited

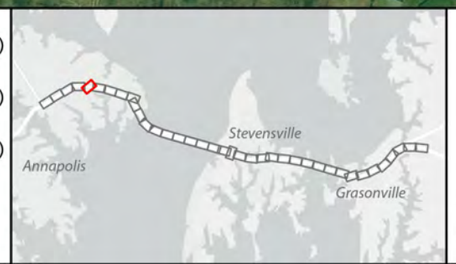
Land Use Activity Category B Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C Noise Sensitive Area (EXTERIOR)

Land Use Activity Category E Noise Sensitive Area (EXTERIOR)

Land Use Activity Category F Non-Noise Sensitive Area

Land Use Activity Category G Non-Noise Sensitive Area



1" = 200 Feet

0 50 100 200 300 400 Feet

MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives



Evaluated Barrier System – Meets Criteria

Evaluated Barrier System – Does Not Meet Criteria

Build Barrier Predicted
Noise Levels & Insertion Loss

Impacted & Benefited

Non-Impacted & Benefited

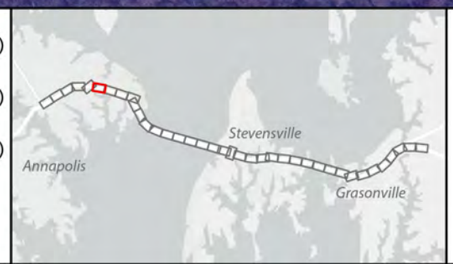
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category E
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category F
Non-Noise Sensitive Area

Land Use Activity Category G
Non-Noise Sensitive Area



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Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Preliminary Noise Barrier Analysis
Results for 2045 Build Alternatives

2-13-B

2-11-C

Bay Head Park

2-10-B

BAY HEAD RD

YORKTOWN RD

R-266

R-276

R-275

R-274

R-265

R-255

R-258

R-254

M-217

2-12-B

R-268

M-220

R-267

M-219

R-264

BARRIER SYSTEM WEST-4

E COLLEGE PKWY

50 301

BARRIER SYSTEM WEST-3

WHITEHALL RD

2-04-B

G-2-02

RIDOUT LN

F-2-02

2-05-B

Evaluated Barrier System – Meets Criteria

Evaluated Barrier System – Does Not Meet Criteria

Build Barrier Predicted
Noise Levels & Insertion Loss

Impacted & Benefited

Non-Impacted & Benefited

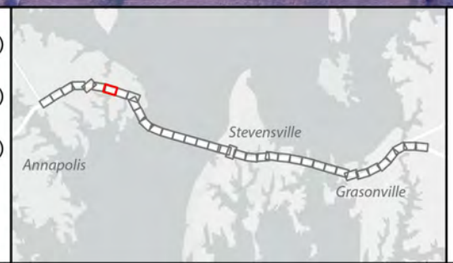
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Land Use Activity Category C
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Land Use Activity Category E
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Land Use Activity Category F
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Non-Noise Sensitive Area



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Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives

2-10-B
2-09-B
2-08-C
LOG INN RD
R-257
R-256
R-250
M-216
R-253
M-214
M-212
M-215
R-252
R-251
M-213
E COLLEGE PKWY
BARRIER SYSTEM WEST-3
50
301
BARRIER SYSTEM WEST-2
WHITEHALL RD
Whitehall Shopping Center
F-2-03
WHITEHALL RD
F-2-02
F-2-04
2-05-B
M-206
COLBERT RD
SKIDMORE DR
M-207
2-06-B
M-208
Meredith Creek
R-238
R-223

Evaluated Barrier System – Meets Criteria

Evaluated Barrier System – Does Not Meet Criteria

Build Barrier Predicted Noise Levels & Insertion Loss

Impacted & Benefited

Non-Impacted & Benefited

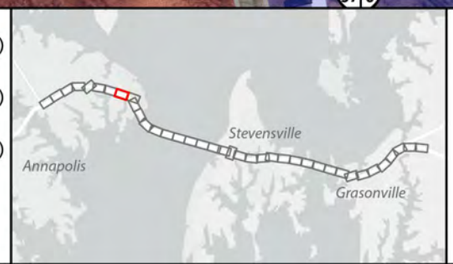
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Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives

2-08-C

MDNR Office and Police Station

E COLLEGE PKWY

Sandy Point State Park

50 301

BARRIER SYSTEM WEST-2

SKIDMORE RD

OCEANIC DR

66 59 7
M-209

2-06-B

G-2-03

Evaluated Barrier System – Meets Criteria

Evaluated Barrier System – Does Not Meet Criteria

67 60 7 Build Barrier Predicted Noise Levels & Insertion Loss

Impacted & Benefited

Non-Impacted & Benefited

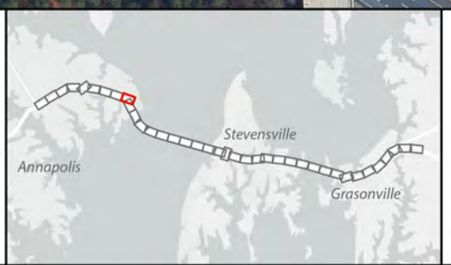
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Land Use Activity Category C Noise Sensitive Area (EXTERIOR)

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N

1" = 200 Feet

0 50 100 200 300 400 Feet

MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives

MAIN ST

MARYLAND 18

50

301

3-56-E

F-3-30

Stevensville Cemetery

3-55-C

3-54-E

3-53-E

G-3-06

F-3-22

3-51-E

3-52-E

F-3-21

BARRIER SYSTEM EAST-1

SHERMAN DR

G-3-02

Cox Creek

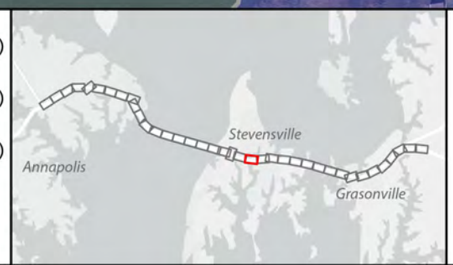
3-10-B

3-09-B

3-11-C

- Evaluated Barrier System – Meets Criteria
- Evaluated Barrier System – Does Not Meet Criteria
- Build Barrier Predicted Noise Levels & Insertion Loss
- Impacted & Benefited
- Non-Impacted & Benefited

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Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives



Evaluated Barrier System – Meets Criteria

Evaluated Barrier System – Does Not Meet Criteria

Build Barrier Predicted
Noise Levels & Insertion Loss

Impacted & Benefited

Non-Impacted & Benefited

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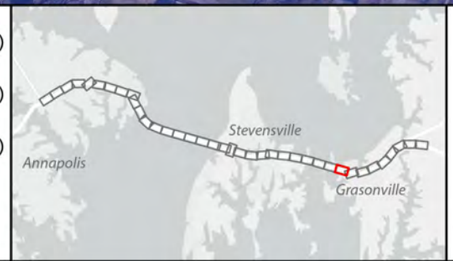
Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Preliminary Noise Barrier Analysis
Results for 2045 Build Alternatives

4-44-B
JACKSON CREEK LN
JACKSON CREEK RD
4-22
4-43-C
F-4-20
G-4-12
4-42-B
WAIMEA BEACH CT
LONG POINT RD
SADDLER RD
BARRIER SYSTEM EAST-3
50
301
MAIN ST
4-10-E
4-11-B
4-13-C
4-14-C
F-4-08
4-09-B
4-12-B
4-15-B
G-4-03
MARYLAND 18
MAIN ST

- Evaluated Barrier System – Meets Criteria
- Evaluated Barrier System – Does Not Meet Criteria
- Build Barrier Predicted Noise Levels & Insertion Loss
- Impacted & Benefited
- Non-Impacted & Benefited

- Land Use Activity Category B Noise Sensitive Area (EXTERIOR)
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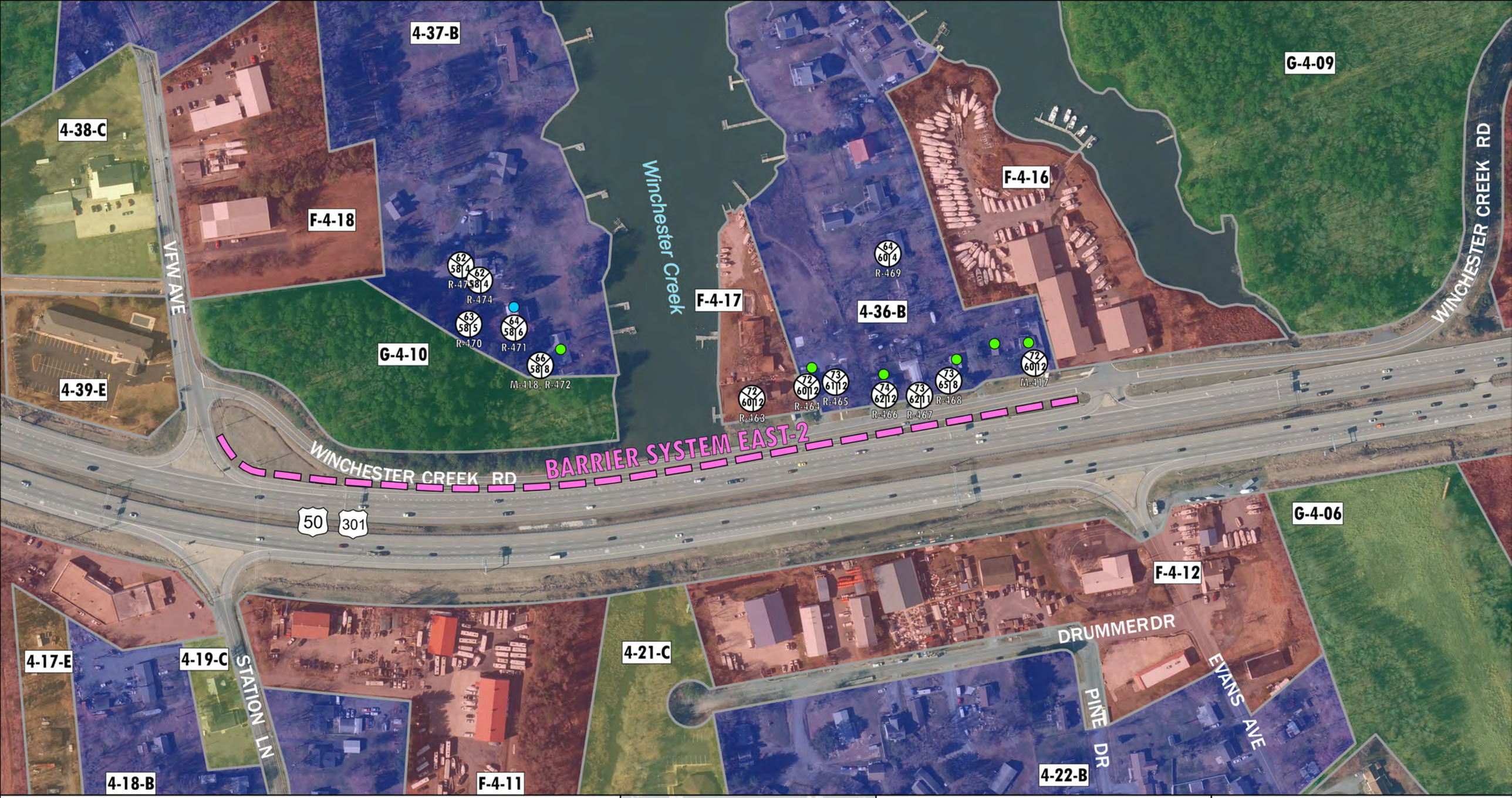
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives



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Evaluated Barrier System – Does Not Meet Criteria

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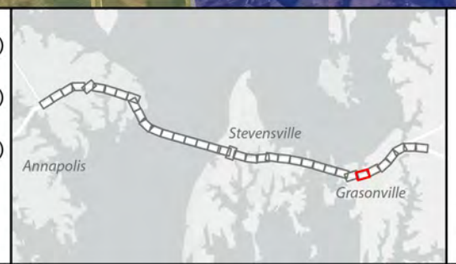
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TIER 2 NEPA

Preliminary Noise Barrier Analysis Results for 2045 Build Alternatives