

**PLANNING DEPARTMENT
MEMORANDUM # 14-04**

DATE: April 21st, 2014
TO: Honorable Mayor Joyce Downing and City Council Members
FROM: John Pick, City Manager *J*
Brook Svoboda, Director of Planning & Development *BS*
SUBJECT: I-25 Replacement of Wood Picket Fences with Concrete Noise Walls

BACKGROUND

As part of the I-25 Managed Lanes Project (TIGER IV/CDOT), which is currently underway, the existing wood picket fences are to be repaired and replaced on the highway side of the project. Recent efforts of CDOT, Adams County and Northglenn staff have prompted further discussion on replacing as much of the wood picket fences along I-25 with concrete sound walls as possible as part of the project.

The scope of the project would include an additional 13,055 linear feet of concrete sound walls - replacing the existing wood fence(s). **Attachment 1** provides a graphical depiction of the project area's existing wood fence - 76% of which is located in Northglenn and 24% of which is located in unincorporated Adams County. There are no wood fences in Thornton.

CDOT requested that the contractor develop additional engineering and construction cost estimates for this purpose. Their estimated cost to replace the wood fences with concrete sound walls is approximately \$8.4 million (see **Attachment 2** for a detailed cost estimate). Based on the commitments to date, there is a \$500,000 gap to execute this project. The table below provides proposed funding commitments:

Total Cost to Replace Wood Fence	\$8,429,675.73
Funding Resources	
Adams County	\$3,000,000.00
CDOT	\$4,929,675.73
Northglenn	\$500,000.00
Total Funding	\$8,429,675.73

BUDGET/TIME IMPLICATIONS

In 2014, the City is in the second year of a three-year \$550,000.00 local match commitment (\$183,000/yr) towards the I-25 Managed Lanes project (TIGER IV Grant). As a condition for receiving the federal monies (\$15 Million) from the TIGER IV Grant, all local commitments are required to be made prior to the completion of the project, currently scheduled for the end of 2015. However, CDOT has recently determined that the local match payments can be extended two additional years to 2017. As a result, Council could consider the following payment options to address the additional \$500,000 we are being asked to commit:

- Extend the current payment schedule two additional years, in the amount of \$250,000/yr for 2016 and 2017.
- Recalculate the payment schedule over the remaining 4 year term, for an annual payment of \$216,750 each year between 2014-2017.
- Increase the 2014 and 2015 payments to \$433,000/yr, to complete our payments in two years.

The Capital Projects Fund is a potential funding source for the \$500,000 now being requested. The Fund has approximately \$5.6 Million of ½% sales/use tax restricted fund balance available. The current financial commitment is being appropriated through the Capital Projects Fund as well.

RECOMMENDATION

At this time CDOT is seeking a Letter of Commitment (LoC) from the City for this additional \$550,000. A draft LoC is included with this report as **Attachment 3**. If approved by Council, an amendment to the IGA between CDOT and Northglenn would be required at a later date. Staff is seeking direction from the Council if there is an interest in participating in the replacement of the wood picket fences with concrete sound walls along I-25. With the additional funding commitment discussed we have been advised that if the City does not participate, it is likely that a portion of the existing wood picket fences would not be replaced with concrete.

STAFF REFERENCE

Brook Svoboda, Director of Planning & Development bsvoboda@northglenn.org 303.450.8937

ATTACHMENTS

ATTACHMENT 1	Project Area Map
ATTACHMENT 2	Cost Estimate and Proposed Funding Analysis
ATTACHMENT 3	Letter of Commitment (Draft)
ATTACHMENT 4	Noise Wall Rendering

Exhibit 2. Existing Wood Noise Barrier 1

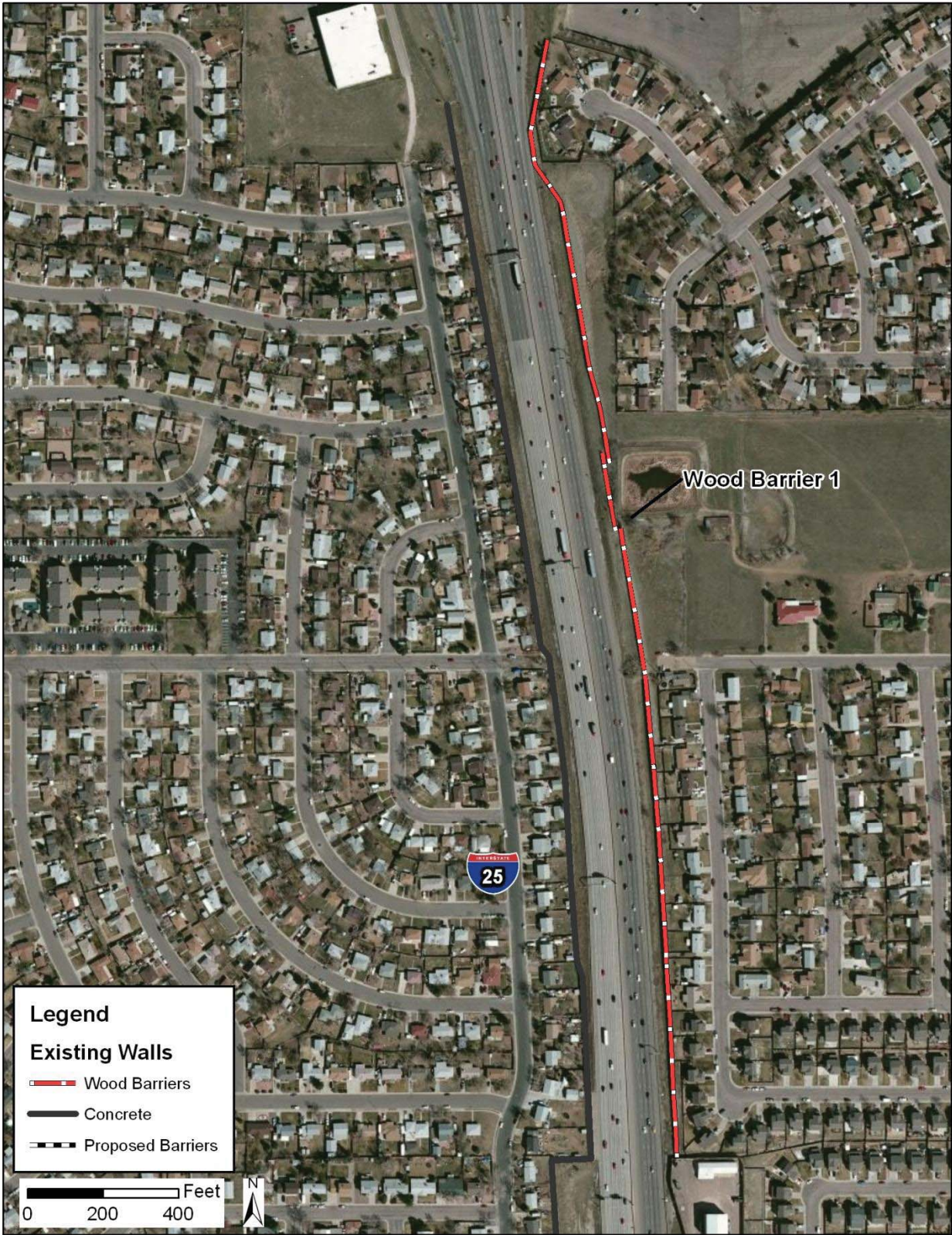


Exhibit 3. Existing Wood Noise Barrier 2



Exhibit 4. Existing Wood Noise Barriers 3 and 4



ATTACHMENT 2

% of Barrier in Adams County = **24%**

% of Barrier in Northglenn = **76%**

I-25 Managed Lanes

Existing Wooden Barrier Analysis - Replace with Concrete at same dimensions as existing barrier

Existing Wooden Barrier 1

Station to Station	NB/SB	City or County	Wall Length (FT)	Wall Height (FT)	Wall Area (SF)	Concrete Noise Wall Cost @ \$40.84/SF	Removal of Sound Barrier Fence Cost @ \$3.50/SF
92+50 to 97+00	NB	Adams County	450	12	5,400	\$ 220,536	\$ 18,900
97+00 to 107+00	NB	Adams County	1,069	12	12,828	\$ 523,896	\$ 44,898
107+00 to 118+00	NB	Adams County	1,100	12	13,200	\$ 539,088	\$ 46,200
118+00 to 122+50	NB	Adams County	450	12	5,400	\$ 220,536	\$ 18,900
Barrier 1 Totals -			3,069		36,828	\$ 1,504,056	\$ 128,898

Existing Wooden Barrier 2

Station to Station	NB/SB	City or County	Wall Length (FT)	Wall Height (FT)	Wall Area (SF)	Concrete Noise Wall Cost @ \$40.84/SF	Removal of Sound Barrier Fence Cost @ \$3.50/SF
232+00 to 241+50	SB	Northglenn	950	12	11,400	\$ 465,576	\$ 39,900
242+00 to 245+00	SB	Northglenn	416	12	4,992	\$ 203,873	\$ 17,472
245+00 to 248+00	SB	Northglenn	300	12	3,600	\$ 147,024	\$ 12,600
Barrier 2 Totals -			1,666		19,992	\$ 816,473	\$ 69,972

Existing Wooden Barrier 3

Station to Station	NB/SB	City or County	Wall Length (FT)	Wall Height (FT)	Wall Area (SF)	Concrete Noise Wall Cost @ \$40.84/SF	Removal of Sound Barrier Fence Cost @ \$3.50/SF
266+91 to 275+00	NB	Northglenn	733	8	5,864	\$ 239,486	\$ 20,524
275+00 to 293+00	NB	Northglenn	1,934	12	23,208	\$ 947,815	\$ 81,228
293+00 to 310+00	NB	Northglenn	1,735	12	20,820	\$ 850,289	\$ 72,870
310+00 to 313+00	NB	Northglenn	246	8	1,968	\$ 80,373	\$ 6,888
313+00 to 317+00	NB	Northglenn	419	12	5,028	\$ 205,344	\$ 17,598
Barrier 3 Totals -			5,067		56,888	\$ 2,323,306	\$ 199,108

Existing Wooden Barrier 4

Station to Station	NB/SB	City or County	Wall Length (FT)	Wall Height (FT)	Wall Area (SF)	Concrete Noise Wall Cost @ \$40.84/SF	Removal of Sound Barrier Fence Cost @ \$3.50/SF
288+00 to 309+36	SB	Northglenn	2,057	12	24,684	\$ 1,008,095	\$ 86,394
308+48 to 311+91	SB	Northglenn	339	8	2,712	\$ 110,758	\$ 9,492
310+32 to 317+93	SB	Northglenn	745	12	8,940	\$ 365,110	\$ 31,290
318+05 to 319+18	SB	Northglenn	112	8	896	\$ 36,593	\$ 3,136
Barrier 4 Totals -			3,253		37,232	\$ 1,520,555	\$ 130,312

	Wall Length (FT)	Wall Area (SF)	Concrete Noise Wall Cost @ \$40.84/SF	Removal of Sound Barrier Fence Cost @ \$3.50/SF
Wooden Barrier Totals -		13,055	\$ 6,164,390	\$ 528,290

Cost of Wooden Barrier Replacement =	\$ 6,692,679.60
Estimated Cost of Noise Analysis and Design =	\$ 375,000.00
Construction Engineering (22.1%) =	\$ 1,361,996.13
Total Funding for Wooden Barrier Replacement =	\$ 8,429,675.73
Project Savings from Eliminating Wood Barrier Rehab =	\$ (904,801.20)
Adams County Funding =	\$ 2,000,000.00
CDOT RPP Funding =	\$ 2,000,000.00
Funding Gap =	\$ 3,524,874.53

Additional Monies to close Funding Gap

Additional Local Agency Funding =	\$ 1,500,000.00
Additional Funding From Project =	\$ 2,024,874.53

ATTACHMENT 3

April 8, 2014

Jay Hendrickson
Colorado Department of Transportation
Region 1 North Engineering
4670 North Holly Street
Denver, CO 80216

RE: CDOT Project IM 0253-222, SA 18695, I-25 Managed Lanes: US 36 to 120th Ave

Dear Jay;

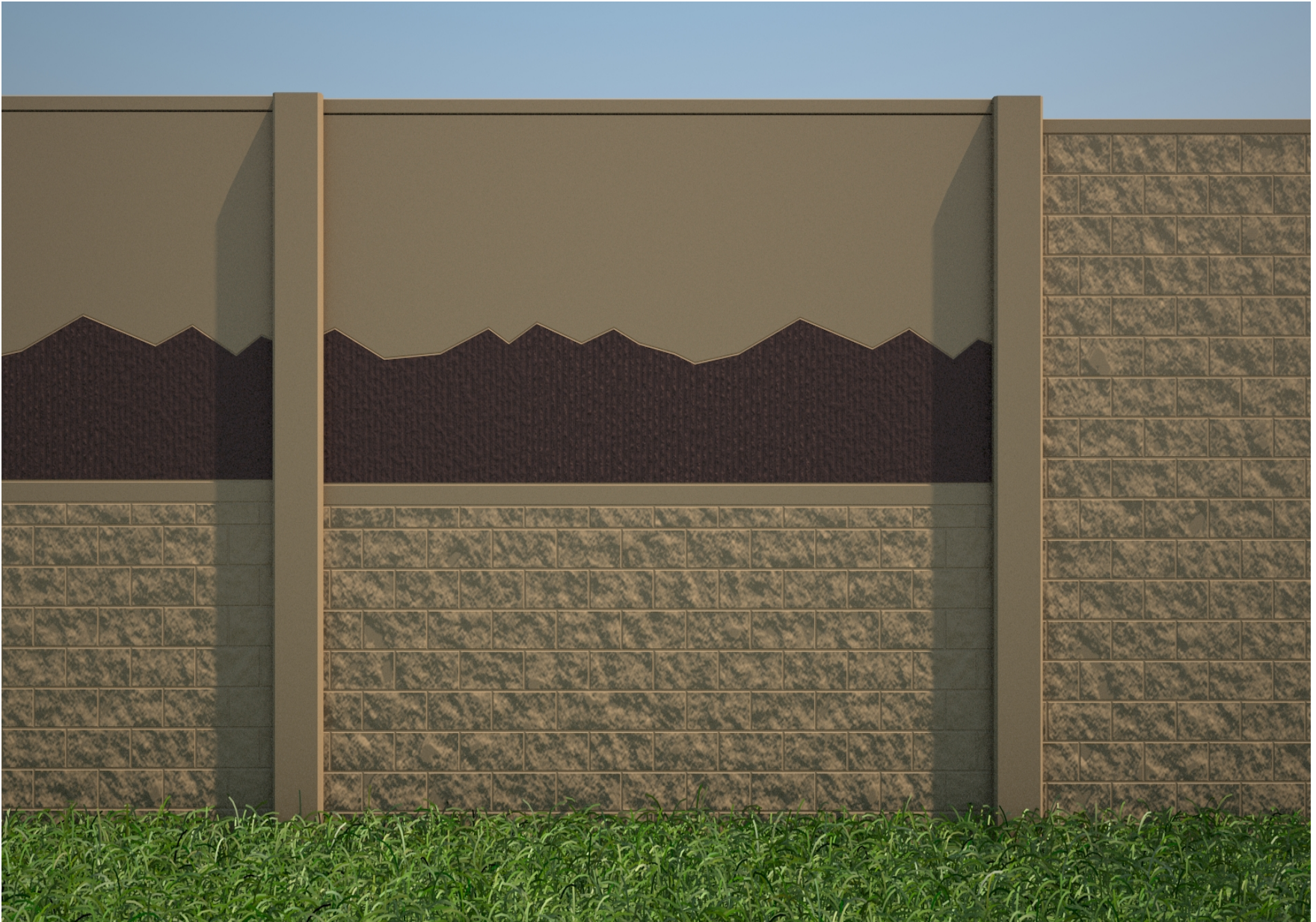
The City of Northglenn is pleased to work with CDOT to replace the existing wood soundwalls along I-25 between US 36 and 112th Avenue with concrete post and panel walls. This work will be included in the current work of the I-25 Managed Lanes project currently under construction. The estimated construction cost to complete this additional work is approximately \$8,429,675.73, and the City's portion would be a total of \$500,000.

Please accept this letter as the City's commitment letter to furnish an additional \$500,000 and initiate the process to amend the current IGA. The payments will be made in two installments of \$250,000 in 2016 and 2017.

If you have any questions, please do not hesitate to call me.

Sincerely,

ATTACHMENT 4



ATTACHMENT 4

