

Memorandum

Date: March 25, 2009

To: Chris Jordan, City Manager

From: Dennis Wright, Acting Public Works Director *DW 3/25/2009*

Subject: Noise Variance Request for ODOT I-205 Joint Repair and Repaving Project

Purpose:

To present rationale for noise variance approval for ODOT Joint Repair and Repaving Project.

Background:

ODOT has submitted a request for variance to the City's municipal code provisions regulating noise 5.487. The municipal code limits the level of the noise as well as the hours during which the construction activity creating such noise may be conducted. Municipal Code Section 5.487 allows "the City Manager or designee may waive, upon written request, the provision of this ordinance if the City Manager or designee determines that granting the request is in the public interest." The City has approved noise waivers for I-205 work in the past, though the anticipated period of request has been shorter in duration. Only a portion of the work on the bridge will fall within the noise variance requirements as more than half the bridge is beyond a 500-foot radius of West Linn residences.

Commencing possibly as early as July 10, 2009, ODOT will begin repair activities on the I-205, Abernethy Bridge. The work will include replacement of the bridge joints as well as deck overlay. The resulting product should reduce the noise associated with traffic on the bridge for adjacent West Linn residents as a significant portion of the noise is from the worn joints and deteriorated pavement as traffic crosses the bridge. The construction is anticipated to last ten weeks and be completed by October 31, 2009. The ODOT letter request for the variance is attached.

ODOT states that "Due to high traffic volumes on I-205, all lanes and ramps must remain open during weekday daytime hours, necessitating nighttime construction activities." Between the hours of 9PM and 5:30 AM, ODOT intends to keep at least one lane of travel maintained in each direction at all times but that some ramp closures will be required.

Staff Evaluation:

- The project is a much needed improvement for the bridge and will result in quieter traffic operations following the repair.
- If ODOT is forced to do daytime work on the bridge, it will be a tremendous impact to the traveling public, including many traveling to and from West Linn.
- ODOT assures that noise from construction activities will approximate noise generate from normal traffic on the structure.

- Approval of the ODOT request is in the public's best interests.

Summary:

Waiver request is in the public's best interests.

Options:

- 1) Approve Noise Waiver for nighttime construction on I-205 Bridge.

Advantages: Minimize traffic impact to traveling public during construction work. Unrestricted daytime use results in less congestion and pollution from traffic backup on I-205 during high daytime usage.

Disadvantages: Some nighttime traffic slowdown and noise. Additionally, more lights on bridge structure at night and nighttime construction along a roadway is more dangerous.

- 2) Disapprove Noise Waiver for nighttime construction on I-205 Bridge.

Advantages: No nighttime noise or lighting impacts beyond normal freeway operations.

Disadvantages: Severe traffic impacts for approximately ten weeks during construction.

Recommendation:

- Staff recommends Option #1 with the provision that all notices be provided in accordance with the City codes and that the construction activity be completed as soon as reasonably possible.

agreed
[Signature]
4/17/09



Oregon

Theodore R. Kulongoski, Governor

Oregon Department of Transportation
ODOT Region 1 Community Affairs Office

123 NW Flanders St
Portland, OR 97209
Telephone (503) 731-8200
FAX (503) 731-3266

March 24, 2009

Chris Jordan
City Manager
22500 Salamo Road
West Linn, OR 97068

Re: Oregon Department of Transportation, Region 1
Interstate 205: George Abernethy Bridge Project
Noise Variance Application

Dear Mr. Jordan,

The Oregon Department of Transportation is requesting a variance from the West Linn Municipal Code, Chapter 5.485 to perform night work to repair bridge joints and repave on the Interstate 205 Abernethy Bridge structure. The work is to repair bridge joints and repave the structure which carries I-205 traffic across the Willamette River between Oregon City and West Linn.

Due to high traffic volumes on I-205, all lanes and ramps must remain open during weekday daytime hours, necessitating nighttime construction activities. While at least one lane of travel will be maintained in each direction on the mainline throughout the construction activities, at times, on- and off-ramps will be closed. These activities will be conducted between the hours of 9 PM and 5:30 AM or during scheduled weekend closures. It is estimated that a total of **ten weeks of night work and intermittent weekend closures of the Abernethy Bridge off- and on-ramps will be required.** During ramp closures, detoured traffic will be sent to the 10th Street interchange and the Gladstone interchange. Construction could begin as early as July 10, 2009 and should be completed by October 31, 2009.

Nighttime construction activities include deck overlay and replacement of the bridge joints. While construction equipment can be loud when you're close to the equipment, fortunately noise dissipates over distance and it is not anticipated that this noise will be noticeable above the average nighttime ambient noise level.

Notification will be distributed to residences and businesses in the immediate area of the work zone and will include a 24-hour phone number that can be called to reach an on-site ODOT Inspector during any hours of construction.

Thank you for your consideration. If you have any questions, feel free to contact me at (503) 731-8237.

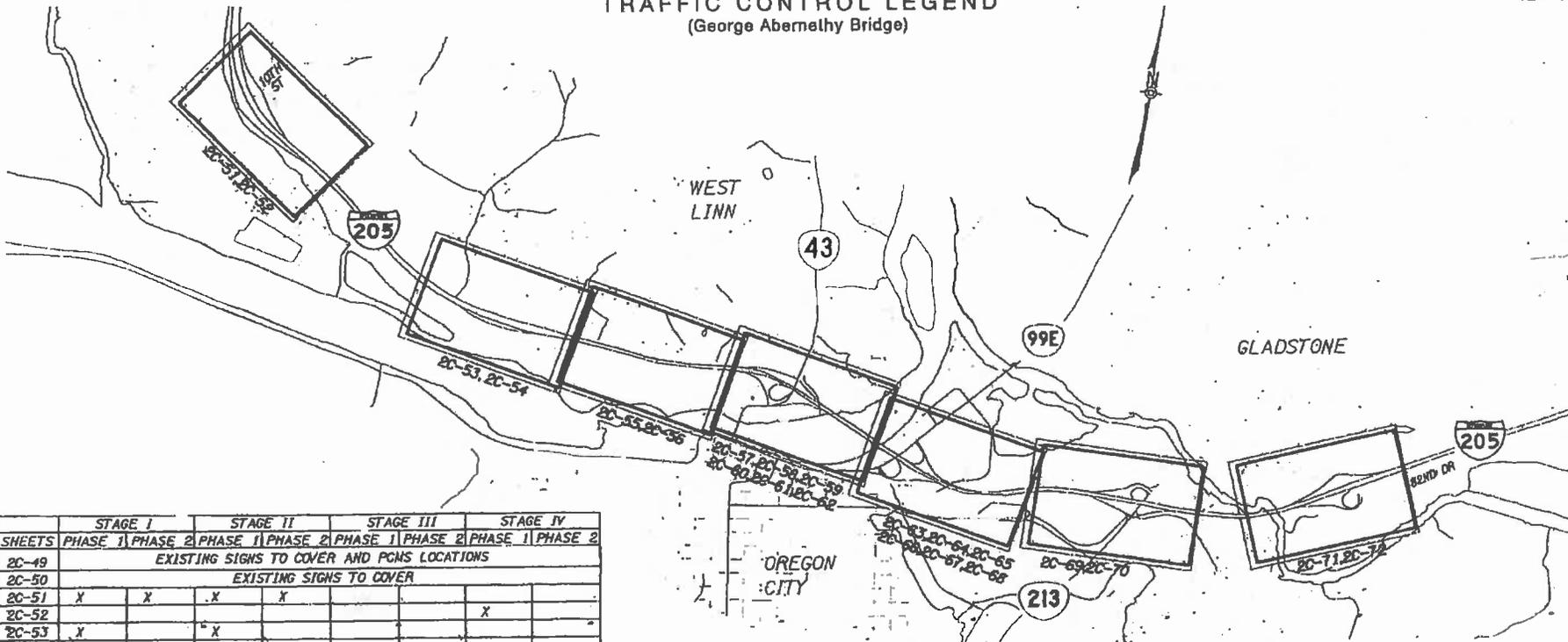
Sincerely,

Judy A. Shiochi
ODOT Region 1
Community Affairs Coordinator

Cc: John Smith, ODOT Assistant Project Manager



TRAFFIC CONTROL LEGEND (George Abernathy Bridge)

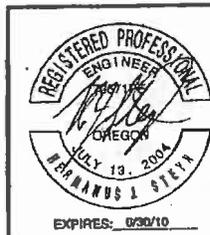


SHEETS	STAGE I		STAGE II		STAGE III		STAGE IV	
	PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2
2C-49	EXISTING SIGNS TO COVER AND PCMS LOCATIONS							
2C-50	EXISTING SIGNS TO COVER							
2C-51	X	X	X	X				
2C-52							X	
2C-53	X		X					
2C-54		X		X				
2C-55	X		X					
2C-56		X		X				
2C-57							X	
2C-58								X
2C-59	X							
2C-60			X					
2C-61		X						
2C-62				X				
2C-63					X			
2C-64							X	
2C-65						X		
2C-66								X
2C-67			X					
2C-68				X				
2C-69					X	X	X	X
2C-70			X					
2C-71					X	X	X	X
2C-72			X					

STAGING DESCRIPTIONS

- STAGE I : I-205 NB at OR43 Interchange
Bridge Joint Repair: Piers 9 & 12
- STAGE II : I-205 NB at OR99E Interchange
Bridge Joint Repair: Piers 2, 3 & Abutment 1
- STAGE III : I-205 SB at OR99E Interchange
Bridge Joint Repair: Piers 2 & 3
- STAGE IV : I-205 SB at OR43 Interchange
Bridge Joint Repair: Piers 9 & 12

PHASE 1 - Outside Lane Work Zones
 PHASE 2 - Inside Lane Work Zones
 NB = Northbound
 SB = Southbound



OREGON DEPARTMENT OF TRANSPORTATION

KITTERSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING / PLANNING

1-200-GLENN JACKSON/0055 & GEO ABERNETHY/1400
BRG PROJECT
EAST PORTLAND FREEWAY -
MULTIMODAL, CLACKAMAS & CLATSOP COUNTIES

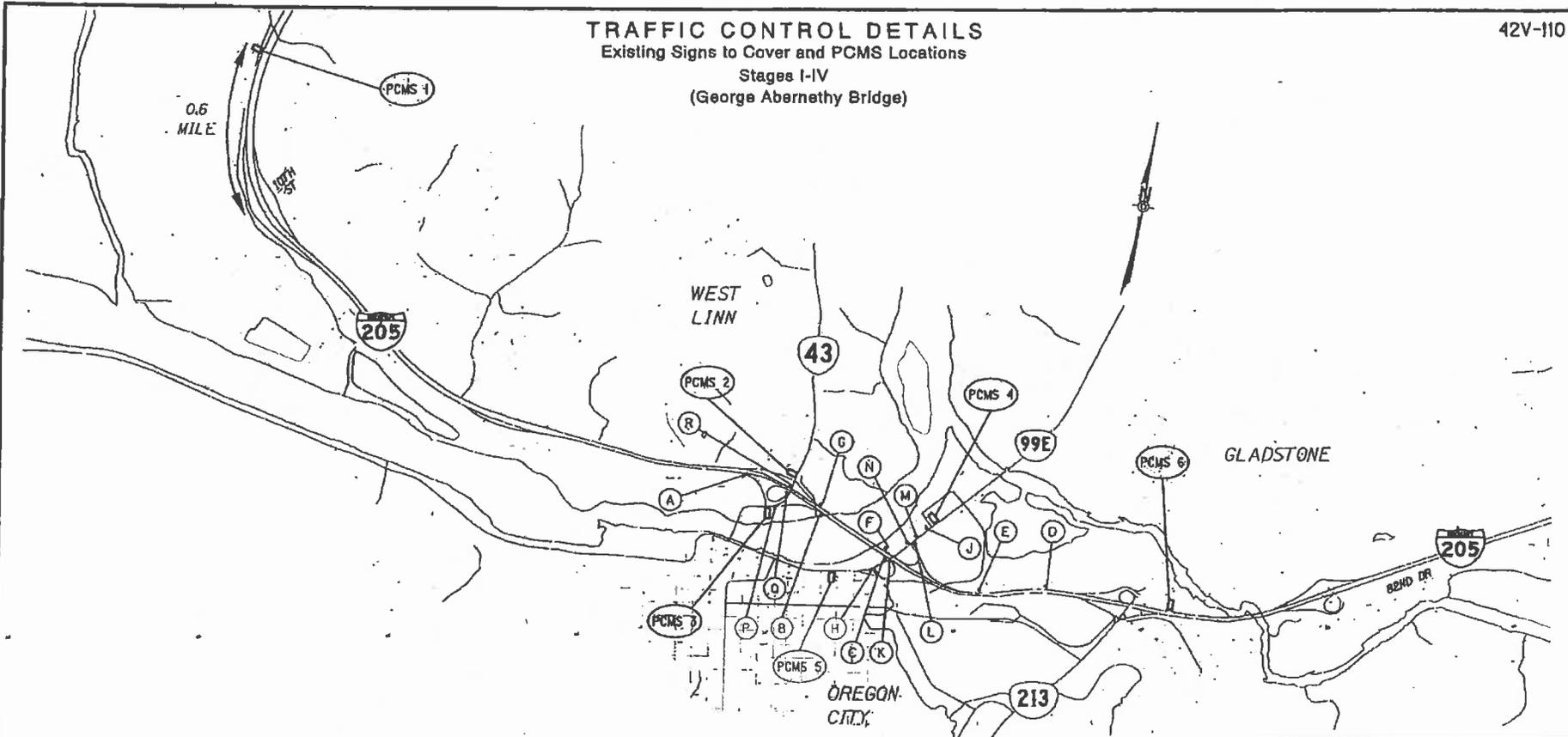
Design Team Leader - Lori Tishler
 Checked By - Nicholas Steyn
 Drafted By - Bernd Falkenberg

TRAFFIC CONTROL LEGEND SHEET NO. 2C-4

EXPIRES: 09/30/10

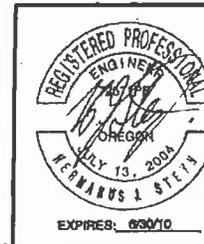
TRAFFIC CONTROL DETAILS
Existing Signs to Cover and PCMS Locations
Stages I-IV
(George Abernethy Bridge)

42V-110



Notes:

- 1) See Sheet 2C-30 for existing informational signs to be covered.
- 2) All existing warning and regulatory signs that contradict the temporary configuration will be covered as directed by the Engineer in the field prior to implementation of construction stages.
- 3) See special provisions section 00225 for portable changeable message sign (PCMS) locations. Messages for PCMS's will be provided by engineer prior to implementation.
- 4) The permanent variable message signs (VMS) located as listed below will be used to inform public of lane ramp closures:
 - I-5 Northbound (Milwaukie - M.P. 285.28)
 - I-205 Southbound (Gladstone - M.P. 11.83)
 - I-84 Westbound (M.P. 11.21)



OREGON DEPARTMENT OF TRANSPORTATION	
KITTELSON & ASSOCIATES, INC. TRANSPORTATION ENGINEERING / PLANNING	
I-205/BLINN JACKSON CROSS & GEO ABERNETHY BRIDGE PROJECT EAST PORTLAND FREEWAY MULTNOMAH, CLATSOP & CLATSOP COUNTIES	
Design Team Leader - Lori Tribbett Designed By - Thomas Steyn Drafted By - Ronald Feltzinger	
TRAFFIC CONTROL DETAILS	SHEET 2C-49

TRAFFIC CONTROL DETAILS

42V-110

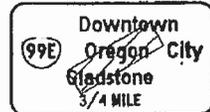
Existing Signs to Cover
Stages I - IV
(George Abernethy Bridge)

LEGEND

 Cover Exlg. Legend with 84x24 "CLOSED" sign



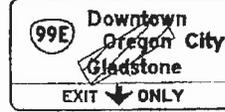
EXIT 9



Exlg. Overhead Sign
Northbound I-205, M.P. 8.67
Stage II, Phase 1

A

EXIT 9



Exlg. Overhead Sign
Northbound I-205, M.P. 9.04
Stage II, Phase 1

B

EXIT 9



Exlg. Overhead Sign
Northbound I-205, M.P. 9.30
Stage II, Phase 1

C

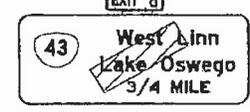
Downtown Oregon City
West Linn
10th Street 1/2 1 3



Exlg. Sign
Southbound I-205, M.P. 9.92
Stage IV, Phase 1

D

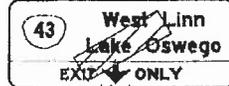
EXIT 8



Exlg. Overhead Sign
Southbound I-205, M.P. 9.68
Stage IV, Phase 1

E

43 **West Linn**
Lake Oswego
EXIT ONLY

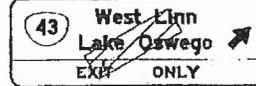


Exlg. Overhead Sign
Southbound I-205, M.P. 9.23
Stage IV, Phase 1

F

EXIT 8

43 **West Linn**
Lake Oswego
EXIT ONLY



Exlg. Overhead Sign
Southbound I-205, M.P. 8.97
Stage IV, Phase 1

G

805 **South**
West Linn
Salem
↓



Exlg. Overhead Sign
Northbound OR99E, M.P. 11.80
Stage III, Phases 1 & 2
Stage IV, Phases 1 & 2

H

43
Lake Oswego
NEXT RIGHT



Exlg. Overhead Sign
Northbound OR99E, M.P. 11.73
Stage III, Phases 1 & 2
Stage IV, Phases 1 & 2

I

805 **South**
West Linn
Salem
→



Exlg. Overhead Sign
Northbound OR99E, M.P. 11.64
Stage III, Phases 1 & 2
Stage IV, Phases 1 & 2

J

Exlg. Overhead Sign
Southbound OR99E, M.P. 11.64
Stage III, Phases 1 & 2
Stage IV, Phases 1 & 2

K

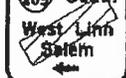
43
Lake Oswego
SECOND LEFT



Exlg. Sign
Southbound OR99E, M.P. 11.45
Stage III, Phases 1 & 2
Stage IV, Phases 1 & 2

L

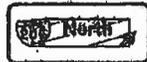
805 **South**
West Linn
Salem
←



Exlg. Overhead Sign
Southbound OR99E, M.P. 11.64
Stage III, Phases 1 & 2
Stage IV, Phases 1 & 2

M

805 **North**



Exlg. Overhead Sign
Northbound OR43, M.P. 11.26
Stage I, Phases 1 & 2
Stage II, Phases 1 & 2

N

805 **North**



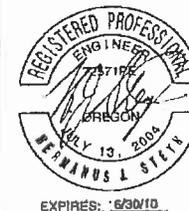
Exlg. Overhead Sign
Southbound OR43, M.P. 11.13
Stage I, Phases 1 & 2
Stage II, Phases 1 & 2

O

Exlg. Overhead Sign
Southbound OR43, M.P. 11.17
Stage I, Phases 1 & 2
Stage II, Phases 1 & 2

P

Notes:
1) Maintain and protect existing signs.
2) See sheets 2C-51 through 2C-72 for staging plans.

REGISTERED PROFESSIONAL ENGINEER  BERNARDUS & STEIN EXPIRES: 6/30/10		OREGON DEPARTMENT OF TRANSPORTATION	
KITTELSON & ASSOCIATES, INC. TRAFFIC CONTROL ENGINEERING & PLANNING			
1-205+LENN JACKSON*01656 & GEO ABERNETHY*0403 BRS PROJECT EAST PORTLAND FREEWAY MLL THOMAS, CLACKAMAS & CLATSOP COUNTIES			
Design Team Leader - Lori Tribbett Designed By - Marcus Stapp Drafted By - Ronald Folzinger			
TRAFFIC CONTROL DETAILS			SHEET NO. 2C-50