

## PDDM MODIFICATION APPROVAL

**Discipline:** Engineering Resources

**Section / Subsection(s):** Chapter 1

**Reason for modification:** Update was needed to stay current

**Expected consequences:**

**Modification Text:** Chapter Updated


**Completed Coordination:**

- |                                     |  |
|-------------------------------------|--|
| × Bridge Discipline Champion        | × Pavements Discipline Champion                    |
| × Construction Discipline Champion  | × Project Management Discipline Champion           |
| × Design Discipline Champion        | × Safety Discipline Champion                       |
| × Environmental Discipline Champion | × Construction Branch Chiefs                       |
| × Geotechnical Discipline Champion  | × Highway Design/Project Development Branch Chiefs |
| × Hydraulics Discipline Champion    | × PP&E Branch Chiefs                               |
| × Land Services Discipline Champion | × Project Management Branch Chiefs                 |
| × Materials Discipline Champion     | × Technical Services Branch Chiefs                 |

**Certification:** I certify the following:


- Above coordination was completed and all comments / concerns have been addressed and resolved in a manner satisfactory to all applicable parties.
- Comments and resolution are on file with the FLH Discipline Champion. All research and development documentation needed to support the above modification(s) is on file with the certifying FLH Discipline Champion.

FLH Discipline Champion JENNIFER LYNN WHELCHER


 Digitally signed by JENNIFER LYNN WHELCHER  
Date: 2025.09.23 15:34:45 -04'00'

**Approval:** The above described modification(s) is approved for immediate implementation:


Chief of Engineering (CFLHD) CURTIS R SCOTT

 Digitally signed by CURTIS R SCOTT  
Date: 2025.09.23 14:27:24 -06'00'


Chief of Engineering (EFLHD) KURT ALLEN DOWDEN

 Digitally signed by KURT ALLEN DOWDEN  
Date: 2025.09.23 15:57:54 -04'00'

Chief of Engineering (WFLHD) BRENT L COE

 Digitally signed by BRENT L COE  
Date: 2025.09.30 07:09:38 -07'00'

Director, Office of Federal Lands Programs AMY S FOX

 Digitally signed by AMY S FOX  
Date: 2025.09.24 15:25:54 -04'00'

## PDDM MODIFICATION APPROVAL

**Discipline:** Planning and Programming

**Section / Subsection(s):** Chapter 2

**Reason for modification:** Chapter need to be updated to stay current

**Expected consequences:**

**Modification Text:** Full Chapter Update

**Completed Coordination:**

- |  |   |
|--|---|
| <input type="checkbox"/> Bridge Discipline Champion        | <input type="checkbox"/> Pavements Discipline Champion                    |
| <input type="checkbox"/> Construction Discipline Champion  | <input type="checkbox"/> Project Management Discipline Champion           |
| <input type="checkbox"/> Design Discipline Champion        | <input type="checkbox"/> Safety Discipline Champion                       |
| <input type="checkbox"/> Environmental Discipline Champion | <input type="checkbox"/> Construction Branch Chiefs                       |
| <input type="checkbox"/> Geotechnical Discipline Champion  | <input type="checkbox"/> Highway Design/Project Development Branch Chiefs |
| <input type="checkbox"/> Hydraulics Discipline Champion    | <input checked="" type="checkbox"/> PP&E Branch Chiefs                    |
| <input type="checkbox"/> Land Services Discipline Champion | <input type="checkbox"/> Project Management Branch Chiefs                 |
| <input type="checkbox"/> Materials Discipline Champion     | <input type="checkbox"/> Technical Services Branch Chiefs                 |

**Certification:** I certify the following:

- Above coordination was completed and all comments / concerns have been addressed and resolved in a manner satisfactory to all applicable parties.
- Comments and resolution are on file with the FLH Engineering Coordinator. All research and development documentation needed to support the above modification(s) is on file with the certifying FLH Discipline Champion.

Engineering Resources Coordinator

JENNIFER LYNN WHELCHER

Digitally signed by JENNIFER LYNN WHELCHER  
Date: 2025.07.28 11:05:30 -04'00'

**Approval:** The above described modification(s) is approved for immediate implementation:

Chief of Business Operations (CFLHD)

VIVIEN N HOANG

Digitally signed by VIVIEN N HOANG  
Date: 2025.07.30 11:45:28 -06'00'

Chief of Business Operations (EFLHD)

HOLLY E BELL

Digitally signed by HOLLY E BELL  
Date: 2025.08.14 07:58:36 -04'00'

Chief of Business Operations (WFLHD)

KRISTIN ADAIR AUSTIN

Digitally signed by KRISTIN ADAIR AUSTIN  
Date: 2025.08.05 12:32:49 -07'00'

Chief of Engineering (WFLHD)

BRENT L COE

Digitally signed by BRENT L COE  
Date: 2025.07.28 08:36:01 -07'00'

Chief of Engineering (EFLHD)

KURT ALLEN DOWDEN

Digitally signed by KURT ALLEN DOWDEN  
Date: 2025.08.12 14:24:05 -04'00'

Chief of Engineering (CFLHD)

CURTIS R SCOTT

Digitally signed by CURTIS R SCOTT  
Date: 2025.07.28 09:56:22 -06'00'

Director, Office of Federal Lands Programs

COREY D BOBBA

Digitally signed by COREY D BOBBA  
Date: 2025.08.15 17:02:18 -04'00'

## PDDM MODIFICATION APPROVAL

**Discipline:** Environment

**Section / Subsection(s):** Chapter 4

**Reason for modification:** Updated to stay current

**Expected consequences:**

**Modification Text:** Full chapter

**Completed Coordination:**

- |   |  |
|---|--|
| <input type="checkbox"/> Bridge Discipline Champion                   | <input type="checkbox"/> Pavements Discipline Champion                               |
| <input checked="" type="checkbox"/> Construction Discipline Champion  | <input checked="" type="checkbox"/> Project Management Discipline Champion           |
| <input checked="" type="checkbox"/> Design Discipline Champion        | <input type="checkbox"/> Safety Discipline Champion                                  |
| <input checked="" type="checkbox"/> Environmental Discipline Champion | <input checked="" type="checkbox"/> Construction Branch Chiefs                       |
| <input type="checkbox"/> Geotechnical Discipline Champion             | <input checked="" type="checkbox"/> Highway Design/Project Development Branch Chiefs |
| <input type="checkbox"/> Hydraulics Discipline Champion               | <input checked="" type="checkbox"/> PP&E Branch Chiefs                               |
| <input type="checkbox"/> Land Services Discipline Champion            | <input checked="" type="checkbox"/> Project Management Branch Chiefs                 |
| <input type="checkbox"/> Materials Discipline Champion                | <input type="checkbox"/> Technical Services Branch Chiefs                            |

**Certification:** I certify the following:

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Engineering Resources Coordinator

JENNIFER LYNN WHELCHER

Digitally signed by JENNIFER LYNN WHELCHER  
Date: 2025.09.11 12:28:38 -04'00'

**Approval:** The above described modification(s) is approved for immediate implementation:

Chief of Business Operations (CFLHD)

VIVIEN N HOANG

Digitally signed by VIVIEN N HOANG  
Date: 2025.09.23 07:38:51 -06'00'

Chief of Business Operations (EFLHD)

HOLLY E BELL

Digitally signed by HOLLY E BELL  
Date: 2025.09.29 08:56:44 -04'00'

Chief of Business Operations (WFLHD)

KRISTIN ADAIR AUSTIN

Digitally signed by KRISTIN ADAIR AUSTIN  
Date: 2025.10.01 09:52:55 -07'00'

Chief of Engineering (WFLHD)

BRENT L COE

Digitally signed by BRENT L COE  
Date: 2025.09.22 09:34:38 -07'00'

Chief of Engineering (EFLHD)

KURT ALLEN DOWDEN

Digitally signed by KURT ALLEN DOWDEN  
Date: 2025.09.23 14:20:34 -04'00'

Chief of Engineering (CFLHD)

CURTIS R SCOTT

Digitally signed by CURTIS R SCOTT  
Date: 2025.09.23 14:28:34 -06'00'

Director, Office of Federal Lands Programs

AMY S FOX

Digitally signed by AMY S FOX  
Date: 2025.09.24 15:27:52 -04'00'

## PDDM MODIFICATION APPROVAL

**Discipline:** Bridge

**Section / Subsection(s):** Chapter 10 – Structural Design

**Reason for modification:** General Update

**Expected consequences:** None

**Modification Text:** General Update


**Completed Coordination:**

Technical Services Branch Chiefs	Construction Branch Chiefs
Highway Design / Project Development Branch Chiefs	Project Management Branch Chiefs
Design Discipline Champion	Construction Discipline Champion
✕ Bridge Discipline Champion	Hydraulics Discipline Champion
Project Management Discipline Champion	Geotechnical Discipline Champion
Hydraulics Discipline Champion	Environmental Discipline Champion
Safety Discipline Champion	Materials Discipline Champion
Pavements Discipline Champion	Planning Discipline Champion

**Certification:** I certify the following:


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- Comments and resolution are on file with the FLH Discipline Champion. All research and development documentation needed to support the above modification(s) is on file with the certifying FLH Discipline Champion.

FLH Discipline Champion      HRATCH H PAKHCHANIAN


 Digitally signed by HRATCH H PAKHCHANIAN  
Date: 2024.12.03 12:34:39 -05'00'

**Approval:** The above described modification(s) is approved for immediate implementation:

Chief of Engineering (CFLHD)      CURTIS R SCOTT

 Digitally signed by CURTIS R SCOTT  
Date: 2025.01.08 12:41:37 -07'00'


Chief of Engineering (EFLHD)      KURT A DOWDEN

 Digitally signed by KURT A DOWDEN  
Date: 2024.12.10 15:08:22 -05'00'

Chief of Engineering (WFLHD)      BRENT L COE

 Digitally signed by BRENT L COE  
Date: 2024.12.03 12:37:39 -08'00'

Director, Office of Federal Lands Programs      SCOTT T JOHNSON

 Digitally signed by SCOTT T JOHNSON  
Date: 2025.01.08 15:49:53 -05'00'

## PDDM MODIFICATION APPROVAL

**Discipline:**Project Management

**Section / Subsection(s):** New Chapter 2A - Project Management (Will become Chapter 3 once reorganization is complete.)

**Reason for modification:** New Chapter needed

**Expected consequences:** Renumbering current Chapter 3 to Chapter 4. Adding information from current Chapter 4 to Chapter 9. Correcting links and references as needed.

**Modification Text:** New Chapter

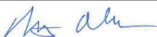
### **Completed Coordination:**

- |   |  |
|---|--|
| <input type="checkbox"/> Technical Services Branch Chiefs                   | <input type="checkbox"/> Construction Branch Chiefs                  |
| <input type="checkbox"/> Highway Design / Project Development Branch Chiefs | <input checked="" type="checkbox"/> Project Management Branch Chiefs |
| <input checked="" type="checkbox"/> Design Discipline Champion              | <input type="checkbox"/> Construction Discipline Champion            |
| <input type="checkbox"/> Bridge Discipline Champion                         | <input type="checkbox"/> Hydraulics Discipline Champion              |
| <input checked="" type="checkbox"/> Project Management Discipline Champion  | <input type="checkbox"/> Geotechnical Discipline Champion            |
| <input type="checkbox"/> Hydraulics Discipline Champion                     | <input type="checkbox"/> Environmental Discipline Champion           |
| <input type="checkbox"/> Safety Discipline Champion                         | <input type="checkbox"/> Materials Discipline Champion               |
| <input type="checkbox"/> Pavements Discipline Champion                      | <input type="checkbox"/> Planning Discipline Champion                |

**Certification:** I certify the following:

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- Comments and resolution are on file with the FLH Discipline Champion. All research and development documentation needed to support the above modification(s) is on file with the certifying FLH Discipline Champion.

FLH Discipline Champion

 Digitally signed by NATHAN MATTHEW ALLEN  
Date: 2024.02.28 14:13:43 -07'00'

**Approval:** The above described modification(s) is approved for immediate implementation:

Chief of Engineering (CFLHD)

CURTIS R SCOTT  
 Digitally signed by CURTIS R SCOTT  
Date: 2024.03.25 08:37:29 -06'00'

Chief of Engineering (EFLHD)

LAURIN R LINEMAN  
 Digitally signed by LAURIN R LINEMAN  
Date: 2024.03.25 10:33:15 -04'00'

Chief of Engineering (WFLHD)

BRENT L COE  
 Digitally signed by BRENT L COE  
Date: 2024.03.25 07:40:11 -07'00'

Director, Office of Federal Lands Programs

SCOTT T JOHNSON  
 Digitally signed by SCOTT T JOHNSON  
Date: 2024.03.25 10:47:10 -04'00'

## PDDM MODIFICATION APPROVAL

**Discipline:** Project Management and Highway Design

**Section / Subsection(s):** Chapter 1, Subsection 1.1.3 Federal Lands Management of Risk, 1.1.5 Revisions and Updates, and various references and corrections throughout.

**Reason for modification:** Chapter 1 modifications includes updated risk guidance for R09 and R10, SHRP2, modification and approval process, and abbreviations and definitions related to 3D modeling.

**Expected consequences:** The updated Chapter will provide current and consistent guidance to all FLH staff.

Modification Text:

See PDDM Chapter 1 attached.

Completed Coordination:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <u>Technical Services Branch Chiefs</u>       | <input checked="" type="checkbox"/> <u>Construction Branch Chiefs</u>       |
| <input checked="" type="checkbox"/> <u>Project Development Branch Chiefs</u>      | <input checked="" type="checkbox"/> <u>Project Management Branch Chiefs</u> |
| <input type="checkbox"/> <u>Design Discipline Champion</u>                        | <input checked="" type="checkbox"/> <u>Construction Discipline Champion</u> |
| <input type="checkbox"/> <u>Bridge Discipline Champion</u>                        | <input type="checkbox"/> <u>Hydraulics Discipline Champion</u>              |
| <input checked="" type="checkbox"/> <u>Project Management Discipline Champion</u> | <input type="checkbox"/> <u>Geotechnical Discipline Champion</u>            |
| <input type="checkbox"/> <u>Hydraulics Discipline Champion</u>                    | <input type="checkbox"/> <u>Environmental Discipline Champion</u>           |
| <input type="checkbox"/> <u>Safety Discipline Champion</u>                        | <input type="checkbox"/> <u>Materials Discipline Champion</u>               |
| <input type="checkbox"/> <u>Pavements Discipline Champion</u>                     | <input type="checkbox"/> <u>Planning Discipline Champion</u>                |

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- All research and development documentation needed to support the above modification(s) is on file with the certifying FLH Discipline Champion.

**ALAN T TEIKARI**

Digitally signed by ALAN T TEIKARI  
DN: c=US, o=U.S. Government, ou=FHWA FHWAsterlingVA,  
ou=DOT FHWAsterlingVA, cn=ALAN T TEIKARI  
Date: 2017.11.16 15:02:38 -05'00'

FLH Discipline Champion

11/16/2017

Date

**Approval:** The above described modification(s) is approved for immediate implementation:

**LAURIN R LINEMAN**

Digitally signed by LAURIN R LINEMAN  
DN: c=US, o=U.S. Government, ou=FHWA  
FHWAsterlingVA, ou=DOT FHWAsterlingVA,  
cn=LAURIN R LINEMAN  
Date: 2018.02.08 14:52:32 -05'00'

Director, EFL Office of Project Delivery

Click to enter date.

Date

**CURTIS R SCOTT**

Digitally signed by CURTIS R SCOTT  
DN: c=US, o=U.S. Government, ou=DOT FHWA  
LakewoodCO, ou=DOT FHWA  
LakewoodCO, cn=CURTIS R SCOTT  
Date: 2018.02.06 10:31:22 -07'00'

Director, CFL Office of Project Delivery

02/06/2018

Click to enter date.

Date

**EDWARD S  
HAMMONTREE**

Digitally signed by EDWARD S HAMMONTREE  
DN: c=US, o=U.S. Government, ou=FHWA  
FHWA  
LakewoodCO, ou=DOT FHWA  
LakewoodCO, cn=EDWARD S HAMMONTREE  
Date: 2018.02.06 09:12:23 -08'00'

Director, WFL Office of Project Delivery

Click to enter date.

Date



Digitally signed by SCOTT T JOHNSON  
DN: c=US, o=U.S. Government, ou=FHWA  
HQ, ou=DOT  
Headquarters, cn=SCOTT T JOHNSON  
Date: 2018.02.08 15:09:04 -05'00'

Director, Office of Program Development

Click to enter date.

Date

## PDDM MODIFICATION APPROVAL

**Discipline:** Design (Survey)

**Section / Subsection(s):** Chapter 5, Section 5.4.6

**Reason for modification:**

Added new Section 5.4.6 to describe the use of Unmanned Aircraft Systems (UAS) on FLH projects. Minor link updates made to rest of chapter.

**Expected consequences:**

The new section provides policy guidance for the use of UAS preparing FLH to take advantage of new technology.

**Modification Text:**

See attached

**Completed Coordination:**

- ☒ Technical Services Branch Chiefs
- ☒ Highway Design/Project Dev. Branch Chiefs
- ☒ Design Discipline Champion
- ☐ Bridge Discipline Champion
- ☐ Project Management Discipline Champion
- ☐ Hydraulics Discipline Champion
- ☐ Safety Discipline Champion
- ☐ Pavements Discipline Champion

- ☐ Construction Branch Chiefs
- ☐ Project Management Branch Chiefs
- ☐ Construction Discipline Champion
- ☐ Hydraulics Discipline Champion
- ☐ Geotechnical Discipline Champion
- ☐ Environmental Discipline Champion
- ☐ Materials Discipline Champion
- ☐ Planning Discipline Champion

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- All research and development documentation needed to support the above modification(s) is on file with the certifying FLH Discipline Champion.

**STEPHEN C  
CHAPMAN**

FLH Discipline Champion

Digitally signed by STEPHEN C  
CHAPMAN  
Date: 2018.06.20 12:39:06 -07'00'

6/20/2018

Date



**Approval:** The above described modification(s) is approved for immediate implementation:

**LAURIN R LINEMAN**

Digitally signed by LAURIN R LINEMAN  
DN: c=US, o=U.S. Government, ou=FHWA FHWAsterlingVA,  
ou=DOT FHWAsterlingVA, cn=LAURIN R LINEMAN  
Date: 2018.07.19 13:22:44 -04'00'

Chief of Engineering, Eastern Federal Lands

7/19/2018

Date

**BRIAN M. KOZY**

Digitally signed by BRIAN M. KOZY  
Date: 2018.07.19 11:11:50 -06'00'

Chief of Engineering, Central Federal Lands

7/19/2018

Date

**EDWARD S  
HAMMONTREE**

Digitally signed by EDWARD S  
HAMMONTREE  
Date: 2018.07.19 10:05:07 -07'00'

Chief of Engineering, Western Federal Lands

7/19/2018

Date

**SCOTT T JOHNSON**

Digitally signed by SCOTT T  
JOHNSON  
Date: 2018.07.19 14:09:37 -04'00'

Director, Office of Program Development

Date

## PDDM MODIFICATION APPROVAL

**Discipline:** Design

**Section / Subsection(s):** Chapter 12 – Right-of-Way and Utilities

**Reason for modification:** Chapter 12 has been updated to amend new program requirements; update technical references for regulations, manuals, websites, etc.; revise process flow charts; correct and clarify grammar and other miscellaneous revisions.

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**Expected consequences:** The updated Chapter will provide current and consistent guidance to all Survey, Mapping Right-of-Way, Utilities and Highway Design staff.

---

**Modification Text:**

See PDDM Chapter 12, attached.

**Completed Coordination:**

<input checked="" type="checkbox"/> <u>Technical Services Branch Chiefs</u>	<input checked="" type="checkbox"/> <u>Construction Branch Chiefs</u>
<input checked="" type="checkbox"/> <u>Project Development Branch Chiefs</u>	<input type="checkbox"/> <u>Project Management Branch Chiefs</u>
<input checked="" type="checkbox"/> <u>Design Discipline Champion</u>	<input checked="" type="checkbox"/> <u>Construction Discipline Champion</u>
<input type="checkbox"/> <u>Bridge Discipline Champion</u>	<input type="checkbox"/> <u>Hydraulics Discipline Champion</u>
<input type="checkbox"/> <u>Project Management Discipline Champion</u>	<input type="checkbox"/> <u>Geotechnical Discipline Champion</u>
<input type="checkbox"/> <u>Hydraulics Discipline Champion</u>	<input type="checkbox"/> <u>Environmental Discipline Champion</u>
<input type="checkbox"/> <u>Safety Discipline Champion</u>	<input type="checkbox"/> <u>Materials Discipline Champion</u>
<input type="checkbox"/> <u>Pavements Discipline Champion</u>	<input type="checkbox"/> <u>Planning Discipline Champion</u>

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- All research and development documentation needed to support the above modification(s) is on file with the certifying FLH Discipline Champion.

**ALAN T TEIKARI**

Digitally signed by ALAN T TEIKARI  
DN: c=US, o=U.S. Government, ou=FHWA FHWAsterlingVA,  
ou=DOT FHWAsterlingVA, cn=ALAN T TEIKARI  
Date: 2017.11.17 13:16:43 -05'00'

FLH Discipline Champion

11/17/2017

Date

**Approval:** The above described modification(s) is approved for immediate implementation:

**LAURIN R LINEMAN**

Digitally signed by LAURIN R LINEMAN  
DN: c=US, o=U.S. Government, ou=FHWA  
FHWAsterlingVA, ou=DOT FHWAsterlingVA, cn=LAURIN R  
LINEMAN  
Date: 2018.02.23 10:38:12 -05'00'

Chief of Engineering, Eastern Federal Lands

[Click to enter date.](#)  
Date

**CURTIS R  
SCOTT**

Digitally signed by CURTIS R SCOTT  
DN: c=US, o=U.S. Government, ou=DOT  
FHWA LakewoodCO, ou=FHWA  
FHWA LakewoodCO, cn=CURTIS R SCOTT  
Date: 2018.02.26 07:57:08 -07'00'

Chief of Engineering, Central Federal Lands

[Click to enter date.](#)  
Date

**EDWARD S  
HAMMONTREE**

Digitally signed by EDWARD S HAMMONTREE  
DN: c=US, o=U.S. Government, ou=FHWA  
FHWA LakewoodCO, ou=DOT FHWA LakewoodCO,  
cn=EDWARD S HAMMONTREE  
Date: 2018.02.23 07:57:00 -08'00'

Chief of Engineering, Western Federal Lands

[Click to enter date.](#)  
Date

*Scott T. Johnson*

Digitally signed by SCOTT T JOHNSON  
DN: c=US, o=U.S. Government, ou=FHWAHQ,  
ou=DOT Headquarters, cn=SCOTT T JOHNSON  
Date: 2018.02.26 08:48:22 -05'00'

Director, Office of Program Development

[Click to enter date.](#)  
Date



cc: FLH Directors, FLH Discipline Champions



U.S. Department  
of Transportation

**Federal Highway  
Administration**

# Memorandum

Subject: **ACTION:** Transmittal 15, Revision to the  
Federal Lands Highway (FLH)  
Project Development and Design Manual  
(PDDM)

Date: January 23, 2014

From: Terry K. Haussler  
Director, Office of Program Development

In Reply Refer To:  
HFPD-3

To: Federal Lands Highway Division Engineers

This memorandum transmits revisions to the PDDM.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapter 1	3/2008	Chapter 1	7/2012	Revised Sections 1.1.4, 1.1.5, 1.2.5, and 1.4.1.
Chapters 3 & 6 Chapter 5 Chapter 12	3/2008	Chapters 3 & 6 Chapter 5 Chapter 12	7/2012 9/2012 12/2012	Changed or removed links to obsolete resources
Chapter 4	3/2008	Chapter 4	7/2012	Modified text of Sections 4.3 and 4.6 to 4.9
Chapter 7	3/2008	Chapter 7	12/2012	Modified text of Sections 7.1 and 7.3 to 7.5
Chapter 9	3/2008	Chapter 9	8/2012	Updated entire chapter

These changes have been added to the web site copy of the PDDM located at  
<http://flh.fhwa.dot.gov/resources/manuals/pddm/>.

If you have any question, please contact Mr. John Seabrook P.E., Design and Project Delivery Engineer at (202) 366-9490.

cc: FLH Directors, FLH Discipline Champions



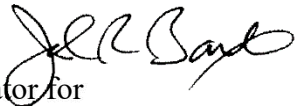
U.S. Department  
of Transportation

**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION:** Transmittal 14, Revision to the  
Federal Lands Highway (FLH) Project Development and  
Design Manual (PDDM)

Date: February 8, 2008

From: John R. Baxter, P.E.   
Associate Administrator for  
Office of Federal Lands Highway

In Reply Refer To: HFPD-3

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 14**

This memorandum transmits the revised PDDM.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapters 1 to 11	5/2005	Chapters 1 to 13	3/2008	Complete content revision to all chapters, new chapters on Pavements (Chapter 11) and Right-of-way (Chapter 12).

The WFLHD is adding this change to their web site copy of the PDDM located at  
<http://www.wfl.fhwa.dot.gov/design/manual/>.

The PDDM is approved for the FLH use through the Federal Lands Highway Office of Program Development. The PDDM has gone through a rigorous review and update by the Functional Discipline Leaders (FDL) and associated cross divisional teams.

**MOVING THE  
AMERICAN  
ECONOMY**



The PDDM has been reviewed by the Divisions, certified by the FDLs, assured as valid by the FDL's respective supervising directors and recommended for approval by the Board of Directors.

The PDDM documents the FLH best practices and standards for project development and design to be followed both internally and by our A/E consultants.

The FLH has developed the 2008 PDDM to provide current policies and guidance for the interdisciplinary project development and design related activities performed by FLH Divisions and their consultants. It also serves as a guide for administrators, public officials and others, both within and outside FLH, who are responsible for advancing projects through the project development process.

Begin to explore and follow the manual at <http://www.wfl.fhwa.dot.gov/design/manual/>. Western Federal Lands is charged with maintaining the official link for the PDDM, however a link is provided through any of the Division's internet or intranet sites.

Directors and Branch Chiefs should discuss the PDDM with their staff and reinforce the manual as FLH's policy and guidance for project development and design.

If you have any question, please contact Mr. John Seabrook P.E., PMP, Design and Construction Operation Engineer at (202) 366-9490.

cc: FLH Directors, FLH Functional Discipline Leaders



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Transmittal 13, Revision to the FLH  
Project Development and Design Manual (PDDM)

Date: JUN 13 2005

From: J.B. Wlaschin  
Director, Office of Program Development

Reply to  
Attn. of: HFPD-1

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 13**

This memorandum transmits the revised PDDM and updates to the FLH Standard Drawings.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapters 1 to 11	-	Chapters 1 to 11	6/10/2005	Minor corrections to all chapters, updated in dual units, re-formatted style for electronic publishing, hyperlinked, and 508 compliant.
Chapter 9, Exhibit 9.38	12/4/1998	Chapter 9, Exhibit 9.38	6/10/2005	New and revised standard drawings. (Revised List of Approved Standard Drawings and Description of Revisions to Standard Drawings.)

The WFLHD is adding this change to their web site copy of the PDDM located at  
<http://www.wfl.fhwa.dot.gov/design/manual/>. Standard drawings may be viewed at  
<http://www.wfl.fhwa.dot.gov/design/standard/>.

Attachments

cc: FLH Directors, FLH Functional Discipline Leaders





U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Transmittal 12, Revision to the FLH  
Project Development and Design Manual (PDDM)

Date: **NOV 28 2000**

From: J.B. Wlaschin *for* *B. Wlaschin*  
Director, Office of Program Development

Reply to  
Attn. of: HFPD-1

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 12**

This memorandum transmits the revised Chapter 7 and a minor correction to Chapter 9.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapter 7	6/13/1996	Chapter 7	11/10/2000	Revises all of Chapter 7 including the index and exhibits
Chapter 9, page 129	6/13/1996	Chapter 9, page 129	11/10/2000	Corrects dimensions of letter sized sheet

The WFLHD is adding this change to their web site copy of the PDDM. The address of this site is <http://www.wfl.fhwa.dot.gov/projects/pddm/pddm.pdf>.

Attachments

cc: Jose Ramirez



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Transmittal 11, Revision to the FLH  
Project Development and Design Manual (PDDM)

Date: **DEC 4 1998**

From: Chief, Engineering and Operations Division

Reply to  
Attn. of: HFL-21

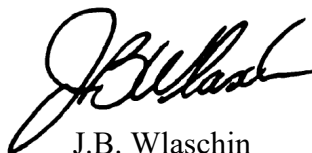
To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 11**

This memorandum transmits the revised Chapter 8 and approves one new and several revised standard drawings for inclusion in the PDDM. The electronic copies of the revised standard drawings have been forward directly from the WFLHD.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapter 8	6/3/1996	Chapter 8	12/4/1998	Revises all of Chapter 8 including the index and exhibits.
Chapter 9, Exhibit 9.38	1/15/1998	Chapter 9, Exhibit 9.38	12/4/1998	New and revised standard drawings. (Revised List of Approved Standard Drawings and Description of Revisions to Standard Drawings.)

A summary of the resolution of the comments, which includes each Division's incoming comments from the September 21 draft distribution of Chapter 8, is also attached. The WFLHD is adding this change to their website copy of the PDDM as well as the CD-ROM Library version they are currently producing.



J.B. Wlaschin

3 Attachments



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Transmittal 10, Revision to the FLH  
Project Development and Design Manual

Date: January 9, 1998

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office

Reply to  
Attn. of: HFL-21

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 10**

This transmittal documents the approval of standard drawings for inclusion in the Project Development and Design Manual (PDDM). The electronic files and hard copies of the revised drawings are being forwarded directly from the WFLHD.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Index for Exhibit 9.38 Pages 1-4	9/8/1997	Index for Exhibit 9.38 Pages 1-4	1/9/1998	Revise Exhibit 9.38 Index to reflect new and updated standard drawings

The attached Index for Exhibit 9.38 includes the original approval date and latest revision date for each approved standard drawing. A summary is also attached that briefly describes the reasons for the current revisions.

  
J.B. Wlaschin

2 Attachments



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Transmittal 9, Revision to the FLH  
Project Development and Design Manual

Date: September 10, 1997

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office

Reply to  
Attn. of: HFL-21

To: Federal Lands Highway Division Engineers

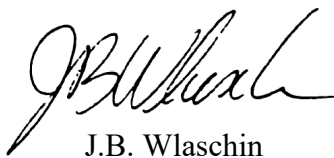
**TRANSMITTAL No. 9**

This transmittal documents the approval of 29 revised standard drawings for inclusion in the Project Development and Design Manual (PDDM). The electronic files (on CD ROM) and hard copies of the revised drawings are being forwarded directly from WFLHD. They are also available on the WFLHD's Web file server (Internet address ftp:/198.145.188.2).

Most of the drawing changes were required due to the decision by the Concrete Reinforcing Steel Institute not to stock hard converted reinforcing steel sizes. The drawings reflect the comments received from the drafts that were forwarded for comments on January 9.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Index for Exhibit 9.38 Pages 1-4	6/3/1996	Index for Exhibit 9.38 Pages 1-4	9/8/1997	Revise Exhibit 9.38 Index to reflect revisions to standard drawings (sent separately)

Besides the revised Index for Exhibit 9.38, a table briefly describing the changes is also attached.



J.B. Wlaschin

2 Attachments



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Transmittal 8, Revision to the FLH  
Project Development and Design Manual (PDDM)

Date: May 30, 1997

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office

Reply to  
Attn. of: HFL-21

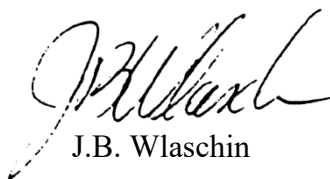
To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 8**

Several revisions to the PDDM are underway, including the rewrite of several chapters. The current revision is the first since the electronic version was transmitted in June 1996. The WFLHD will include the revisions in the electronic version on their Web Page. The WFLHD is also continuing efforts to update the standard drawings for the reinforcing steel changes and will make the standard drawings and other exhibits in the PDDM available on CD ROM in the near future.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Exhibit 8.3 Pages 1-3	6/3/1996	Exhibit 8.3 Pages 1-3	5/28/1997	Revise Exhibit 8.3 to reflect correct NCHRP Report number.

This change is needed to prevent users outside FLH from mistakenly believing that the aesthetic barrier systems noted have been tested under NCHRP 350. Currently, FLH has no plans to retest those systems under NCHRP 350. As new systems are developed, they will be tested under the criteria approved by FHWA at the time of testing.



J.B. Wlaschin

Attachment



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Electronic Metric Version  
Project Development and Design Manual

Date: June 3, 1996

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office

Reply to  
Attn. of: HFL-20

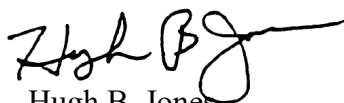
To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 7**

The metric version of the Federal Lands Highway Project Development and Design Manual (PDDM) is attached on floppy disks. Comments received from users of the August 1995 "Working Draft" have been incorporated. This metric version is intended to be kept only electronically. Information on extracting the compressed files is included on the attached Supplemental Information sheet.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
All (Chapter 1 through Chapter 11)	10/21/1988 to 6/29/1994	Chapter 1 through Chapter 11	6/3/1996	Metric Revision of Entire PDDM

Several chapters have comprehensive revisions underway or planned, and some exhibits are not included on the disks. The supplemental Information sheet also has the status of the revisions and exhibits.

  
Hugh B. Jones

3 Attachments





U.S. Department  
of Transportation

**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Federal Lands Highway, Project  
Development and Design Manual (PDDM) Revision

Date: June 29, 1994

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office

Reply to  
Attn. of: HFL-20

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 6**

The attached update describes the standard format for the preparation and assembly of plans. Revised sample plan sheets approved for use on Federal Lands Highway projects are also included. These sample plans were distributed for comments on December 20, 1990, and again on November 19, 1992. Since this transmittal contains detailed drawings, sufficient copies of this transmittal and attachments will be forwarded to your office for those holding copies of the manual as soon as they have been reproduced.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapter 9 Pages iii & iv	4/06/94	Chapter 9 Pages iii & iv	06/29/94	Chapter 9 Table of Contents
Chapter 9 Pages 125 - 138	4/06/88	Chapter 9 Pages 125 - 138	06/29/94	Chapter 9 Subsection 9.6, Standard Format
Chapter 9 List of Exhibits	4/06/94	Chapter 9 Lists of Exhibits	06/29/94	Chapter 9, Revise List of Exhibits
Chapter 9 Exhibit 9.22 Through 9.30	10/21/88	Chapter 9 Exhibit 9.22A Through 9.36	06/29/94	Chapter 9 Exhibit 9.22A - 9.36 Sample Plans
Chapter 9 Exhibit 9.31 List of Standard Drawings	4/06/94	Chapter 9 Exhibit 9.37 List of Standard Drawings	06/29/94	Chapter 9 Exhibit 9.31 Standard Drawings are Relabeled as Exhibit 9.37

  
Larry C. Smith

Attachments





U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION:** Federal Lands Highway, Project  
Development and Design Manual (PDDM) Revision

Date: June 17, 1994

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office

Reply to  
Attn. of: HFL-20

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 5**

The attached update contains the final drainage pipe alternative selection guidance to be used on FLH projects. This guidance was distributed by memorandum to all divisions on September 27, 1993. Several revisions were made in this version to be inserted into the PDDM. The revisions involve changes in the examples in Exhibit 7.10, and a correction to the LOTUS based spreadsheet, PIPWRKSH.wkl, which was also distributed in September. Revised copies of the spreadsheet have been E-Mailed to each division.

Generally, it has been decided that all changes to the PDDM will be in english units only, until the metric version is distributed in FY 95. However, this guidance is being furnished in metric units, with english units in parenthesis, since many divisions are currently designing projects in metric units. Please make sufficient copies of this transmittal and attachments for those holding copies of the manual.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapter 7 Pages 7-45 - 7-46	10/21/88	Chapter 7 Pages 7-45.1 - 7-46	6/17/94	Chapter 7.4.5. Drainage Processes
Chapter 7 List of Exhibits	10/21/88	Chapter 7 List of Exhibits	6/17/94	Chapter 7 Revise List of Exhibits to add 7.10
		Chapter 7 Exhibit 7.10	6/17/94	Chapter 7, Exhibit 7.10, Estimating Steel Pipe Service Life

Larry C. Smith

3 Attachments







U.S. Department  
of Transportation

**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION**: Federal Lands Highway, Project  
Development and Design Manual (PDDM) Revision

Date: April 6, 1994

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office

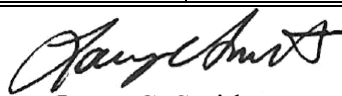
Reply to  
Attn. of: HFL-20

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 4**

The attached update describes the process being implemented for approval of standard drawings in the PDDM. The standard drawings and symbols approved for use on Federal Lands Highway projects are also attached, along with the table giving the status of all approved standard drawings. After reprinting, sufficient copies of this transmittal and attachments will be forwarded to your office for those holding copies of the manual.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapter 9 Pages iii & iv	10/21/88	Chapter 9 Pages iii & iv	4/11/94	Chapter 9 Table of Contents
Chapter 9 Pages 103 - 106	10/21/88	Chapter 9 Pages 103 - 106	4/11/94	Chapter 9 Subsection 9.4.1.2, Standard Drawings
Chapter 9 List of Exhibits	10/21/88	Chapter 9 Lists of Exhibits	4/11/94	Chapter 9, Revise List of Exhibits to add 9.31
Chapter 9 Exhibit 9.21 Pages 1 - 14	10/21/88	Chapter 9 Exhibit 9.21 Pages 1 - 12	4/11/94	Chapter 9 Exhibit 9.21, Drafting Symbols, Culture, and Standards
		Chapter 9 Exhibit 9.31	4/11/94	Chapter 9 Exhibit 9.31 Status of Approved Standard Drawings and Letter Size Sets of Approved Standard Drawings

  
Larry C. Smith

5 Attachments





U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: **INFORMATION:** Federal Lands Highway, Project  
Development and Design Manual (PDDM) Revision

Date: August 31, 1993

From: Chief, Engineering and Operations Division  
Federal Lands Highway Office


Reply to  
Attn. of: HFL-20

To: Federal Lands Highway Division Engineers

**TRANSMITTAL No. 3**

The attached update describes the process being implemented for making revisions to the PDDM. Revisions involving individual pages or short subsections, such as this revision to Subsection 1.1 will not normally be printed for distribution to all plan holders. Please make sufficient copies of these revisions for those in your division holding copies of the manual. This is the third transmittal related to the PDDM. A summary sheet listing the dates of previous transmittals is attached. Also attached is a Record of Changes to record revisions filed in individual manuals.

DELETE		ADD		DESCRIPTION
Page(s)	Dated	Page(s)	Dated	
Chapter 1 Pages 1 & 2	10/21/88	Chapter 1 Pages 1 - 2.1	8/24/93	Chapter 1 Subsection 1.1.C, Revisions

  
Larry C. Smith

3 Attachments





U.S. Department  
of Transportation

**Federal Highway  
Administration**

# Memorandum

Subject: Federal Lands Highway Project  
Development and Design Manual

Date:

**AUG 23 1991**

Reply to

Attn. of:

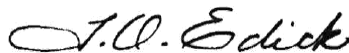
HFL-22

From: Federal Lands Highway Program Administrator  
Federal Lands Highway Office  
Washington, D.C. 20590

To: All holders of the Manual

TRANSMITTAL No. 2

Remove		Insert		Description
Page(s)	Dated	Page(s)	Dated	
Chapter 8 I and II	Undated	Chapter 8 I and II	8/19/91	Chapter 8 Table of Contents
8-23 thru 8-27	Undated	8-23 thru 8-27	8/19/91	Policy on Short-Term Pavement Markings

  
Thomas O. Edick

Attachments



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Memorandum

Subject: Federal Lands Highway Project  
Development and Design Manual

Date: November 14, 1988

From: Direct Federal Programs Administrator  
Office of Direct Federal Programs


Reply to  
Attn. of: HDF-12

To: All Manual Holders

**Transmittal No. 1**

Remove		Insert		Description
Page(s)	Dated	Page(s)	Dated	
		Chpt. 1 thru Chpt. 11 incl.	10/21/88	Initial distribution of Federal Lands Highway Project Development and Design Manual.  Insert the Chapters in the loose leaf binders under the appropriate index tab.

Attachments

  
Thomas O. Edick