



U.S. Department
Of Transportation
**Federal Railroad
Administration**

400 Seventh St., S.W., RRS-23
Washington, D.C. 20590

Attached is a report entitled "Analysis of Suggested Changes to the Department of Transportation's National Crossing Inventory Form 6180.71" which summarizes the suggested changes resulting from the outreach efforts to improve the Crossing Inventory Program. The Federal Railroad Administration (FRA) has compiled the many suggestions and comments that were provided by the railroad industry, the States and other interested parties, as a result of the four outreach meetings held in 2001 and 2002. Each comment and suggestion was analyzed to determine whether it should be accepted for a revision to the current Form. The attached analysis divides the suggestions into three categories, those that are accepted, those that were rejected, and those that are under consideration.

FRA is again seeking comments from the industry and State DOTs' before completing this effort and preparing a new Inventory Form with the suggested changes. Specifically, interested parties are asked to provide comments by 31 January 2007 on this report and the planned changes to the Inventory Form in writing to FRA. Comments can be made directly on a printed copy of the "Analysis" and mailed to Thomas Woll, Federal Railroad Administration, Office of Safety, 1120 Vermont Ave., NW, MS-25, Washington, DC 22030 or by e-mail to the following address: outreach@fulcrum-corp.com.

Previous outreach efforts proved extremely successful. FRA believes that circulating the compiled list for final comments will provide valuable input to improve the National Crossing Inventory Program. FRA anticipates finalizing this effort by April 2007.

If you have any questions or concerns regarding this effort, please contact Mr. Thomas P. Woll, Highway-Rail Crossing Safety Engineer, at 202-493-6290 or by e-mail at tom.woll@dot.gov

Sincerely,

Thomas P. Woll
Crossing Inventory Program Manager



**ANALYSIS OF SUGGESTED CHANGES
TO THE DEPARTMENT OF TRANSPORTATION'S
NATIONAL CROSSING INVENTORY FORM 6180.71**

November 13, 2006

**Prepared by:
Fulcrum Corporation
Fairfax, VA**

**for the
Office of Safety
Federal Railroad Administration
Washington, DC**

SUMMARY:

This document contains the results of the Federal Railroad Administration (FRA's) analysis of suggested changes to the Department of Transportation (DOT) National Highway-Rail Crossing Program and Inventory Form. States, Railroads and other interested parties are requested to provide comments to this document.

BACKGROUND:

FRA held four outreach meetings to explore new ways to improve the DOT National Crossing Inventory, in 2001 and 2002. These meetings were held in Dallas, TX on November 11, 2001; Washington, DC on March 5, 2002; Chicago, IL on May 7, 2002; and Irvine, CA June 25, 2002. Attendees included states, railroads and other interested parties.

Documentation was provided at the meetings on the inventory, which included a standard FRA inventory file format with data value specifications, draft updating responsibilities, and procedures for reconciling inventory data. States, railroads and other parties were given the opportunity to exchange their ideas and provide FRA with suggestions for improving the inventory. This document consists of an analysis of the comments and suggestions gathered from the outreach effort, along with other suggestions that have been received since that time. This document provides FRA's tentative decision to accept or reject suggestions, along with an explanation of its rationale for rejecting certain suggestions. However, FRA solicits final comments and suggestions at this time and is circulating this preliminary analysis for additional discussion by all interested parties.

ANALYSIS RESULTS:

The analysis follows the format of the current inventory form. The analysis is grouped into three categories. Presented first are the accepted changes. The next group is a list of changes that have been rejected at this time, along with a brief explanation of FRA's decision not to implement the change. The final group is a list of changes that may be accepted, but merits additional discussion or input from interested parties. FRA will entertain comments and suggestions on all three categories. FRA intends to consider modifications to the instructions for compatibility with expected changes to the Inventory Form, as well as changes to data flow processing, as time and funding permits.

U.S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION (FRA)

OMB Control No. 2130-0017
Expires: 7/31/2006

A. Initiating Agency <input type="checkbox"/> Railroad <input type="checkbox"/> State		B. Crossing Number (max. 7 char.)		C. Reason for Update <input type="checkbox"/> Changes in Existing Data <input type="checkbox"/> New Crossing <input type="checkbox"/> Closed Crossing or Abandoned		D. Effective Date (MM/DD/YYYY)	
Part I: Location and Classification Information							
1. Railroad Oper. Co. (code (max. 4 char.) or name)			2. State (2 char.)		3. County (max. 20 char.)		
4. Railroad Division or Region (max. 14 char.)		5. Railroad Subdivision or District (max. 14 char.)		6. Branch or Line Name (max. 15 char.)		7. RR Milepost (max. 7 char.) (nnnn.nn)	
8. R.R.L.D. No. (max. 10 char.)		9. Nearest RR Timetable Station (max. 15 char.) (optional)		10. Parent RR (max. 4 char.) (if applicable)		11. Crossing Owner (RR or Company name) (if applicable)	
12. City (max. 16 char.) (check <input type="checkbox"/> In <input type="checkbox"/> Near)			13. Street or Road Name (max. 17 char.)			STATE SUPPLIED INFORMATION	
14. Highway Type & No. (max. 7 char.)		15. ENS Sign Installed (1-800) <input type="checkbox"/> Yes <input type="checkbox"/> No		16. Quiet Zone <input type="checkbox"/> No <input type="checkbox"/> 24 hr <input type="checkbox"/> Partial <input type="checkbox"/> Unknown		21. HSR Corridor ID (2 char.)	
17. Crossing Type (choose one only) <input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Pedestrian		18. Crossing Position <input type="checkbox"/> At Grade <input type="checkbox"/> RR Under <input type="checkbox"/> RR Over		19. Type of Passenger Service <input type="checkbox"/> AMTRAK <input type="checkbox"/> AMTRAK & Other <input type="checkbox"/> Other <input type="checkbox"/> None		20. Average Passenger Train Count Per Day	
						22. County Map Ref. No. (max. 10 char.)	
						23. Latitude (max. 10 char., nn.nnnnnn)	
						24. Longitude (max. 11 char., nnn.nnnnnn)	
						25. Lat/Long Source <input type="checkbox"/> Actual <input type="checkbox"/> Estimated	
26. Is There an Adjacent Crossing With a Separate Number? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Provide Number _____ (7 characters)							
27. PRIVATE CROSSING INFORMATION							
27.A. Category (check one) <input type="checkbox"/> Farm <input type="checkbox"/> Residential <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial		27.B. Public Access <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		27.C. Signs/Signals <input type="checkbox"/> None <input type="checkbox"/> Signs <input type="checkbox"/> Signals Specify (max. 15 char.) _____ Specify (max. 15 char.) _____			
28.A. Railroad Use (max. 20 char.)				29.A. State Use (max. 20 char.)			
28.B. Railroad Use (max. 20 char.)				29.B. State Use (max. 20 char.)			
28.C. Railroad Use (max. 20 char.)				29.C. State Use (max. 20 char.)			
28.D. Railroad Use (max. 20 char.)				29.D. State Use (max. 20 char.)			
30. Narrative (max. 100 char.)							
31. Emergency Contact (Telephone No.)			32. Railroad Contact (Telephone No.)			33. State Contact (Telephone No.)	
MUST COMPLETE REMAINDER OF FORM FOR PUBLIC VEHICLE CROSSINGS AT GRADE							
Part II: Railroad Information							
1. Number of Daily Train Movements							
1.A. Total Trains _____		1.B. Total Switching Trains _____		1.C. Total Daylight Thru Trains (6 AM to 6 PM) _____		1.D. Check if Less Than One Movement Per Day <input type="checkbox"/>	
2. Speed of Train at Crossing							
2.A. Maximum Time Table Speed (mph) _____							
2.B. Typical Speed Range Over Crossing (mph) from _____ to _____							
3. Type and Number of Tracks Main _____ Other _____ If Other, Specify (max. 10 char.) _____							
4. Does Another RR Operate a Separate Track at Crossing? <input type="checkbox"/> Yes If Yes, Specify RR (max. 16 char.) <input type="checkbox"/> No _____, _____, _____				5. Does Another RR Operate Over Your Track at Crossing? <input type="checkbox"/> Yes If Yes, Specify RR (max. 16 char.) <input type="checkbox"/> No _____, _____, _____			

Figure 1 – Current US DOT Crossing Inventory Form (page 1)

U.S. DOT CROSSING INVENTORY FORM

B. Crossing Number <i>(max. 7 char.)</i>	PAGE 2	D. Effective Date (MM/DD/YYYY)
Part III: Traffic Control Device Information		
1. No Signs or Signals <input type="checkbox"/> Check if Correct	2. Type of Warning Device at Crossing - Signs (specify number of each)	
	2.A. Crossbucks: _____	2.B. Highway Stop Signs (R1-1) _____
	2.C. RR Advance Warning Signs (W10-1) <input type="checkbox"/> Yes <input type="checkbox"/> No	2.D. Hump Crossing Sign (W10-5) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
2.E. Pavement Markings <input type="checkbox"/> Stoplines <input type="checkbox"/> RR Xing Symbols <input type="checkbox"/> None	2.F. Other Signs: (specify MUTCD type) Number _____ Specify Type <i>(max. 10 char.)</i> _____ Number _____ Specify Type <i>(max. 10 char.)</i> _____	
3. Type of Warning Device at Crossing - Train Activated Devices (specify number of each)		
3.A. Gates _____	3.B. Four-quadrant (or full barrier) Gates <input type="checkbox"/> Yes <input type="checkbox"/> No	3.C. Cantilevered (or Bridged) Flashing Lights: Over Traffic Lane <i>(number)</i> _____ Not Over Traffic Lane <i>(number)</i> _____
3.D. Mast Mounted Flashing Lights <i>(number)</i> _____	3.E. Number of Flashing Light Pairs _____	
3.F. Other Flashing Lights: Number _____ Specify Type <i>(max. 9 char.)</i> _____	3.G. Highway Traffic Signals <i>(number)</i> _____	3.H. Wigwags <i>(number)</i> _____
3.I. Bells <i>(number)</i> _____		
3.K. Other Train Activated Warning Devices: (specify) <i>(max. 9 char.)</i> _____		
4. Specify Special Warning Device NOT Train Activated <i>(max. 20 char.)</i>	5. Channelization Devices With Gates <input type="checkbox"/> All Approaches <input type="checkbox"/> One Approach <input type="checkbox"/> None	
6. Train Detection <input type="checkbox"/> Constant Warning Time <input type="checkbox"/> DC/AFO <input type="checkbox"/> Motion Detectors <input type="checkbox"/> Other <input type="checkbox"/> None	7. Signalling for Train Operation: Is Track Equipped with Train Signals? <input type="checkbox"/> Yes <input type="checkbox"/> No	8. Traffic Light Interconnection/Preemption <input type="checkbox"/> Not Interconnected <input type="checkbox"/> N/A <input type="checkbox"/> Simultaneous Preemption <input type="checkbox"/> Advance Preemption
9. Reserved For Future Use	10. Reserved For Future Use	11. Reserved For Future Use
		12. Reserved For Future Use
Part IV: Physical Characteristics		
1. Type of Development <input type="checkbox"/> Open Space <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Institutional		2. Smallest Crossing Angle <input type="checkbox"/> 0° - 29° <input type="checkbox"/> 30° - 59° <input type="checkbox"/> 60° - 90°
3. Number of Traffic Lanes Crossing Railroad _____	4. Are Truck Pullout Lanes Present? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Is Highway Paved? <input type="checkbox"/> Yes <input type="checkbox"/> No
6. Crossing Surface (on main line) <input type="checkbox"/> 1. Timber <input type="checkbox"/> 2. Asphalt <input type="checkbox"/> 3. Asphalt and Flange <input type="checkbox"/> 4. Concrete <input type="checkbox"/> 5. Concrete and Rubber <input type="checkbox"/> 6. Rubber <input type="checkbox"/> 7. Metal <input type="checkbox"/> 8. Unconsolidated <input type="checkbox"/> 9. Other (Specify) _____		
7. Does Track Run Down a Street? <input type="checkbox"/> Yes <input type="checkbox"/> No	8. Nearby Intersecting Highway? <input type="checkbox"/> Less than 75 feet <input type="checkbox"/> 75 to 200 feet <input type="checkbox"/> 200 to 500 feet <input type="checkbox"/> N/A Is it Signalized? <input type="checkbox"/> Yes <input type="checkbox"/> No	
9. Is Crossing Illuminated? (street lights within approx. 50 feet from nearest rail) <input type="checkbox"/> Yes <input type="checkbox"/> No	10. Is Commercial Power Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	11. Space Reserved For Future Use
Part V: Highway Information		
1. Highway System <input type="checkbox"/> Interstate <input type="checkbox"/> Federal Aid, Not NHS <input type="checkbox"/> Nat. Hwy System (NHS) <input type="checkbox"/> Non Federal Aid	2. Is Crossing on State Highway System? <input type="checkbox"/> Yes <input type="checkbox"/> No	3. Functional Classification of Road at Crossing _____
4. Posted Highway Speed _____		
5. Annual Average Daily Traffic (AADT) Year _____ AADT _____	6. Estimate Percent Trucks _____	7. Average Number of School Buses Over Crossing per School Day _____

Paperwork Reduction Act: Public reporting for this information collection is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a currently valid OMB Control Number. The valid OMB Control Number for this collection is 2130-0017.

Figure 2 – Current US DOT Crossing Inventory Form (page 2)

Crossing Inventory Website Addresses

FRA Safety Data Website (Current Crossing Inventory Record, Data, WBAPS):

<http://safetydata.fra.dot.gov/officeofsafety/>

DOT National Crossing Inventory Information - Exploring New Ways to Improve (Outreach):

<http://www.fra.dot.gov/us/content/801>

Highway-Rail Grade Crossing and Trespass Prevention Issues and Publications:

<http://www.fra.dot.gov/us/content/338>

Publications, Studies and Reports on Crossing Safety

<http://www.fra.dot.gov/us/content/20>

DOT Crossing Inventory Form (FRA-F-6180.71):

<http://safetydata.fra.dot.gov/officeofsafety/Forms/Default.asp>

State Inventory Contacts:

<http://www.fra.dot.gov/downloads/safety/stcont100104.pdf>

Railroad Inventory Contacts (partial list):

<http://www.fra.dot.gov/downloads/safety/rrcont091004.pdf>

Inventory Form Instructions (Nov 1999 Draft for current Form):

<http://www.fra.dot.gov/downloads/safety/Outreach/newfor2.PDF>

Highway-Rail Crossing Inventory Instructions and Procedures Manual (December 1996):

<http://www.fra.dot.gov/us/content/1499>

Assignment of Crossing Inventory Numbers:

<http://www.fra.dot.gov/downloads/safety/Outreach/Numbers.PDF>

Format and Description of Crossing Inventory Data Fields:

<http://www.fra.dot.gov/downloads/safety/Outreach/datbyfld22802.PDF>

<http://safetydata.fra.dot.gov/officeofsafety/Downloads/Default.asp>

Procedure for Updating the DOT Crossing Inventory File for Public Authorities (Horn Rule):

http://www.fra.dot.gov/downloads/safety/update_inventory_rev2.pdf

FRA Auxiliary Tables (List of all Railroad Names and Codes):

<http://safetydata.fra.dot.gov/officeofsafety/Downloads/Default.asp>

Help for Accessing Crossing Inventory Data (how to do it):

<http://safetydata.fra.dot.gov/officeofsafety/NewCrossing/howtoac2.pdf>

Accident Prediction and Resource Allocation Procedure

<http://www.fra.dot.gov/us/content/1507>

<http://www.fra.dot.gov/us/content/1465>

User Guide, Third Edition
Summary Report

Section 130 US Code Statue “Highway-Rail Crossing Improvement Funding”

<http://www4.law.cornell.edu/uscode/23/130.html>

Section 406 US Code Statue “Reports can not be admitted as Evidence”

<http://www4.law.cornell.edu/uscode/23/409.html>

Questions or need assistance: Contact Tom Woll at 202-493-6290 or via tom.woll@dot.gov

I. ACCEPTED CHANGES

A. Reporting Agency

Switch field entitled *Initiating Agency* to B.

Add a box to this field for Transit Agencies that are not railroads:

- Transit

B. Crossing Number

Switch field entitled *Crossing Number* to A to put the Number in the right-hand corner.

Add a box to this field for Transit (Property) Crossings:

- Transit

C. Reason for Update

Add additional Reasons, changing this field to the following:

- New
- Changed Data
- Ownership Transfer
- Closed
- Out-Of-Service/ Inactive
- Abandoned
- Re-Open
- Admin. Corrections
- No Data Change

D. Effective Data

Change the name of this field to: *Revision Date*

Part I: Location and Classification Information

1. Railroad Operating Co.

Add check box to this field for the following:

- Two or More Operating Railroads (Identify in Part II)

For crossings that have multiple operating railroads, each railroad can provide a crossing record with the current data.

Move Part II items to Part I and name them Item 1.b and 1.c:

Add 1.b (formerly Item 4, Part II) Does another RR Operate a Separate Track at Crossing?

Add 1.c (formerly Item 5, Part II) Does another RR Operate Over Your Track at Crossing?

7. Railroad Milepost

Add/allow prefix and suffix with 3 characters for each. Milepost would be divided into 3 sections with 3 characters for prefix, 7 characters (as current) for the numeric milepost, and 3 characters for suffix.

8. Railroad ID Number

Increase this field from 10 to 16 characters.

13. Street or Road Name

Increase this field from 17 to 26 characters.
Add provision for "Block Number"

15. ENS Sign (I-13) Installed

Delete parenthetical (I-800)

16. Quiet Zone

This field becomes FRA populated with input determinations from Notices of Quiet Zone Establishment or Continuation.

Delete choice *unknown*

17. Crossing Type:

Pedestrian is not a type of crossing. Change the field to the following:

Crossing Type: public
 Private

Crossing User: vehicular
 pedestrian/bike

Crossing Position remains the same.

Current Pedestrian crossings would all be converted to public until FRA is notified differently.

19. Type of Passenger Service

Change the field to the following:

- Amtrak only
- Amtrak and other
- Commuter only
- Light rail shared
- Light rail transit
- Tourist/other
- None

20. Average Passenger Train Count per Day

Accept a number less than one or add a check box for “Less than 1 Train per Day “

21. HSR Corridor ID

Increase this field from 2 to 4 characters.

A set of codes for the designated High Speed Rail Corridors has been defined by FRA. These consist of three alpha characters and one numeric character for States to break the corridor into smaller sections if desired.

22. County Map Reference No.

Delete this field.

24.A USNG Number

Add a calculated field for the United States National Grid Number which identifies a specific location on a map to an accuracy of one meter. This value is calculated from the latitude and longitude of the location and will not need to be entered by a state or railroad.

27.A Category

Change term *Farm* to *Farm/Open Space*

The new categories are:

- Farm/Open Space
- Residential
- Commercial
- Industrial
- Recreational

27.C Signs & Signals

Add and change this field as follows:

Signs: Private crossing

Crossbuck

Stop Sign

Yield Sign

Advanced Warning Signs: W10-2 W10-3 W10-4 W10-5

Other _____ (increase character length from 15 to 26)

Signals: Flashing Lights

Gates

Other _____ (increase character length from 15 to 26)

31. Emergency Contact (Telephone No.)

32. Railroad Contact (Telephone No.)

33. State Contact (Telephone No.)

FRA will populate these fields with known telephone numbers, if the data is not provided.

Part II: Railroad Information

1. Number of Daily Train Movements

Change title of field to *Estimated Average Number of Daily Train Movements*.

1.E Add field for the month and year when the train count data was provided:

Month/Year _____

3. Type and Number of Tracks

Add check boxes for the following:

- Siding
- Spur
- Industry lead
- Other _____

Increase field for *if other, specify* to 26 characters.

Add 6. Is there an Event recorder?

Add check box as follows:

- Yes

Add 7. Is there Health Monitoring?

Add check box as follows:

- Yes

Add 8. Train Detection

Move #6 from Part III thereby adding the following:

- Constant Warning Time
- Motion Detectors
- DC/AFO
- Other
- None

Allow for multiple “train detection” codes.

Add 9. Signaling For Train Operation

Move #7 from Part III, thereby adding the following:

Is Track Equipped with Train Signals at Crossing?

- Yes
- No

Note: While it would seem that #6, 7, 8, and possibly 9 would fit more logically in Part III “Traffic Control Devices,” this is an attempt to put and keep all the railroad provided information in one Section.

Part III: Traffic Control Device Information

Change title of this field to *Highway Traffic Control Device Information*

2.A.2 Yield Signs

Add check box to this field for the following:

- Yield Signs

Alternately, we could capture the number of Yield Signs like is done with Stop Signs. However, it would seem that a check box is easier and the question arises as to if anyone uses the ‘count’ verses just the presence of the signs since they will be part of the Crossbuck warning device. However, it would seem that we’d want the same type of information for both of these regulatory signs. So, the question also applies to Stop Signs – Does anyone need the ‘count’ of Stop Signs or should we make this a check box also?

2.C. RR Advance Warning Signs

Remove check box from this field for term *No*

Add check boxes to this field for the following:

- W 10-1
- W 10-2
- W 10-3
- W 10-4

2.D. Hump Crossing Sign (W10-5)

Remove check box from this field for *no* and *unknown*

This field will only have a check box indicating that a sign is installed.

2.F. Other Signs: (specify MUTCD type)

Add provision for ENS and EXEMPT Signs:

- ENS signs (I-13).
- EXEMPT sign (R15-3 and W10-1a).

3.B. Four-quadrant (or full barrier) Gates

Remove check box from this field for *No*

Add check boxes to this field to separate Four-quadrant and Full-barrier:

- Four-quadrant
- Full barrier to prevent intrusion

3.B.1 Pedestrian Gates

Add and collect the number of gates

3.D.1 Month/Year Gates or Flashing Lights Installed

Add month/year

3.K. Other Train Activated Warning Devices: (specify)

Increase this field from 9 to 26 characters.

3.L. Highway Traffic Pre-Signals:

Add field and check-box for PRE-SIGNALS:

Are there Pre-Signals? Yes

Add the field for: *Storage Distance* _____

5. Channelization Devices with Gates

Remove term “*with gates*”

6. Train Detection

Move to Part II Railroad Information. Allow for multiple train detection codes.

7. Signaling for Train Operation

Move to Part II, Railroad Information

Replace 6. Automated Train Horn

Add check box for: Yes

9, 10, 11, & 12. Reserved For Future Use

Remove fields 9, 10, 11, and 12 to allow for additional space.

Part IV: Physical Characteristics

1. Type of Development

Standardize with Private Crossing Information

Delete term *Institutional* and add the term *Recreational*.

Change the term *Open Space* to the term *Farm/Open Space*.

The new categories are as follows:

- Farm/Open Space
- Residential
- Commercial
- Industrial
- Recreational

3. Number of Traffic Lanes Crossing Railroad

Change title to *Traffic Lanes Crossing Railroad*

Add the following to this field:

_____ Number of Lanes

- One-Way Street
- Two-way Street
- Divided Highway

4. Are Truck Pullout Lanes Present

Change term *truck* to *vehicle*.

5. Is Highway Paved?

Change term *Highway* to *Roadway*.

6. Crossing Surface

Move to Part II, Railroad Information.

Add provision for Installation Month/Year.

8. Nearby Intersecting Highway?

Add a check box to this field for the following:

- Measured Distance _____ (Allow for 5 characters)

Change *Is it signalized?* to: *Does it have traffic signals?*

10. Is Commercial Power Available?

Remove this field. (Is this needed?)

Part V: Highway Information

3. Functional Classifications of Road at Crossing

Remove blank line and add check boxes to this field for the following:

- | | |
|-----------------------------------|---|
| <input type="checkbox"/> (1)Urban | <input type="checkbox"/> (1) Interstate |
| <input type="checkbox"/> (2)Rural | <input type="checkbox"/> (2) Other Freeway/Expressway |
| | <input type="checkbox"/> (4) Principal Arterial |
| | <input type="checkbox"/> (6) Minor Arterial |
| | <input type="checkbox"/> (7) Major Collector |
| | <input type="checkbox"/> (8) Minor Collector |
| | <input type="checkbox"/> (9) Local Access |

4. Posted Highway Speed

Change title of field to *Roadway Speed*. (The instructions will still state, “indicate the posted speed.”)

5. Annual Average Daily Traffic (AADT)

Add term *Estimated* to the beginning of the title.

Add 8. Is Crossing Regularly used by Hazmat Vehicles?

Add check box as follows:

- Yes

II. REJECTED SUGGESTIONS

C. Reason for Update

- Add Exempt – rejected

Part I: Location and Classification Information

12. City

- Delete term *in or near* for City. – rejected, provides a more precise location

13. Street or Road Name

- Add street name alias – rejected since inventory already has highway type & no.

21. HSR Corridor I.D

- Delete HSR corridor, not needed – rejected, necessary information

32, 33. Railroad Contact, State Contact

- Change wording to *non-emergency railroad and state contact* – rejected, term *emergency contact* already exists, not necessary to specify on form, can clarify in the instructions
- Delete state contact – rejected, necessary for further information regarding data

Part II: Railroad Information

- Rename Part II *Railroad Authority* – rejected, *information* is a more accurate description of data being collected

2. Speed of Train at Crossing,

2.B Typical Speed Range Over Crossing

- Delete *typical speed range at crossing* – rejected, necessary information helps distinguish between switching and thru trains

Part III. Traffic Control Device Information

2. A Crossbucks

- Add extra blocks for new MUTCD standard for retro-reflective sheeting, back-to-back signs, & reflective strips on posts – rejected. This would require more detailed information than is needed for the inventory

2.C Railroad Advance Warning Signs (W10-1),

2.D Hump Crossing Signs (W10-5),

2.E Pavement Markings

- Move these fields to Part IV *Physical Characteristics* – rejected, these are warning devices
- Indicate how many – rejected, unless comments can demonstrate a need for the data/count
- Distinguish between warning devices (crossing) and traffic control devices (highway) – rejected, the distinction is clear.
- Is the Crossing Number Posted? – rejected, impractical
- Enter number of signs – rejected, impractical, but open to reconsideration with a demonstrated need for the data

Part IV: Physical Characteristics

6. Crossing Surface

- Add width and length of crossing – rejected, number of traffic lanes and railroad tracks give an approximate width and length

Part V: Highway Information

- Rename this *State Authority* – rejected, *information* is a more accurate description of data

5. Annual Average Daily Traffic (AADT):

- ADT use ranges instead of specific numbers – rejected, because accident prediction calculations require AADT value
- Suggestions for additional data elements:
 1. Add *photo enforcement* – rejected
 2. Add *vehicle presence detection* – rejected unless need can be established
 3. Add *reflective strips for crossbucks* – rejected, not necessary
 4. Add *photographs* – rejected, soliciting comments for possible future inclusion
 5. Add *percent grade (centimeters up & down)* – rejected

III. SUGGESTIONS UNDER CONSIDERATION

Part I: Location and Classification Information

8. RR I.D.

- Should the form have a separate *State ID field* instead of using this field for state crossing numbers?

9. Nearest RR Timetable Station

- This field is currently considered optional. Could it be eliminated entirely?

12. City

- Change word *city* to *city/township/village*.

22. County Map Ref. No.

- Should this field be deleted?

Part II: Railroad Information

1. Number of Daily Train Movements

- Allow decimal places

3. Type and Number of Tracks

- Add term *branch line*
- *If Other, Specify* needs more space for multiple branches and spurs with different names.
 - Comment: data entry does not have to be that accurate.

6. Move crossing surface from Part IV to Part II

11. Add.- Date of Last On-site Inventory.

Part III: Traffic Control Device Information

2. Crossing Warning Device (WD) Code

- Add public crossing WD code which indicates the highest level of warning device to the record printout.

5. Channelization Devices With Gates

- Move closer to the other Gate fields on the form (III.3.A. Gates, III.3.B. Four-quadrant gates)

10. New Data Elements

- Should data elements (check boxes) be added for the following?

Photo enforcement

Vehicle presence detection_

Remote monitoring

Part IV: Physical Characteristics

6. Crossing Surface

- Allow multiple selections to be checked and also “Other” (explain in narrative). This is to be able to indicate different surfaces where there are multiple tracks. – Comment: Should this data be collected or should only the highest type of surface be selected?

Add 11. Sight Distances

- Should sight distances be added here or elsewhere on the Form? If so, they will vary for different seasons/times of the year? What definition should be used?

Part V: Highway Information

5. Annual Average Daily Traffic (AADT)

- The year is currently required. Should it be changed to *month* and *year*?

7. Average Number of School Buses over Crossing per School Day

Change field to, *Regularly Used By School Buses*.

Delete count. There is no need for a count.

Add check box to this field as follows: Yes

Note: The 'Count' does help quantify the risk analysis. However, the count and even usage oftentimes will change from year to year. And, does anyone use that actual count rather than the fact that the crossing is used by school busses.

Add 8. Name of Local Highway Authority

- Should this category be added here or elsewhere?

General Suggestions

- Eliminate the "No" check box for many questions on the Form. Only the "Yes" box is necessary.
- Change the term *highway* to *roadway* throughout the Form.
- Add space for a name for a signature block for person submitting the update.
- Add to Flashing Light Warning Devices, "Incandescent or LED"
- Identification of Construction Contract Agreement
- Add crossing length and width to physical characteristics
- Identify crossing surface manufacturer and warning device manufacturer
- Federal or State project number
- Identify Improvement of Funding Description
- Identify Parallel Street(s)
- Add effective date to all pertinent fields. (This actually has been accepted.)
- Change "Effective Date" to "Submitted Date."
[Note: "Revision Date" has already been accepted.]

Website Modification

- Display the inventory data on an Inventory form so that it can be taken to the field for updating purposes.