U.S. DOT CROSSING INVENTORY FORM

DATA FILE STRUCTURE

AND

FIELD INPUT SPECIFICATIONS

FORMAT FOR FRA INVENTORY FIELDS

DATA ENTRY FIELD DESCRIPTION

INVENTORY FIELD ORDER

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1	B.	CROSSING	Crossing No.	7 C	1	(7)	Valid Crossing I.D. No. Must be 6 numeric characters followed by 1 alphabetic character.
2	D.	EFFDATE	Effective Date	6 C	8	(13)	Entered in form as MM/DD/YYYY (stored in EFFDATE field as YYMMDD)
3		EDATE	End Date	6 C	14	(19)	End date for the most current record is always '999999'. When the crossing is updated with a new record, the end date of the previous current record is set to one day before the effective date of the new current record.
4	C.	REASON	Reason for Update	1 C	20		EDATE is stored as YYMMDD. 1=Changes in Existing Crossing Data 2=New Crossing 3=Closed Crossing or Abandoned
5	I.2.	STATE	State	2 C	21	(22)	Use 2-character state code. Click here to go to Valid State FIPS Code .
6	I.3.	CNTYCD	County	4 C	23	(26)	Use 4-character county code. Click here to go to Valid County FIPS Code
7		STATE2	State	2 C	27	(28)	Use 2-character state code. Click here to go to Valid State FIPS Code
8	I.12.	CITYCD	City	4 C	29	(32)	Use 4-character city code. Click here to go to Valid City FIPS Code
9	I.12.	NEAREST	In or Near City	1 C	33		0 = In City 1=Near City
10	I.1.	RAILROAD	Railroad Operating Company	4 C	34	(37)	Valid Railroad Code For valid railroad codes, refer to current list of railroad codes provided by FRA Office of Safety
11	I.4.	RRDIV	RR Division	14 C	38	(51)	Railroad Division Name or Blank
12	I.5.	RRSUBDIV	RR Subdivision	14 C	52	(65)	Railroad Subdivision or Blank
13	I.14.	HIGHWAY	Highway type and No.	7 C	66	(72)	Any Alphanumeric Data or Blank
14	I.13.	STREET	Street or Road Name	17 C	73	(89)	Any Alphanumeric Data or Blank
15	I.8.	RRID	RR I.D. No.	10 C	90	(99)	
16	I.9.	TTSTN	Nearest RR Timetable Station	6 C	100	(105)	Valid Timetable Station
17	I.6.	BRANCH	Branch or Line Name	15 C	106	(120)	Branch/Line Name or Blank

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18	I.7.	MILEPOST	RR Milepost	6 C	121 (126)	The first two spaces can be alphanumeric, and the next four spaces numeric. There is an implied decimal point after the first 4 characters.
19	I.22.	MAPREF	County Map Ref. No.	10 C	127 (136)	Any Alphanumeric Data or Blank
20	I.17	TYPEXING	Type of Crossing	1 C	137	1=Pedestrian, 2=Private Vehicle, 3=Public Vehicle (The following is the key for the crossing type and position: 11 - Pedestrian at grade 23 - Private RR over 12 - Pedestrian RR under 31 - Public at grade 13 - Pedestrian RR over 32 - Public RR under 21 - Private at grade 33 - Public RR over) 22 - Private RR under
21	I.18.	POSXING	Position of Crossing	1 C	138	1=At grade under 2=RR Under 3=RR over
22	I.27.A	PRVCAT	Private Xing Category	1 C	139	1=Farm 3=Recreational 2=Residential 4=Industrial 5=Commercial
23	I.27.C.	PRVIND	Signs/ Signals	1 C	140	Current Values: 1=signs 3=no signs or signals 2=signals 4=both signs and signals On Previous Version of Inventory Form: 8=Signs 9=Signals 0=None
24	I.27.C.	PRVSIGN	Signs-Specify	15 C	141 (155)	Any Alphanumeric Data (Reference Field 140, PRVSIGNL)
25	A.	INIT	Initiating Agency	1 C	156	1. =Railroad 2. =State 3.=DOT 4. =Original FRA internal use. Note: 3 & 4 are for internal FRA use only.
26		BATCH	System coded Field	6 C	157 (162)	Coded field, which is used for batch identification during update: The first character is the last character of the year; The second-fourth characters are the day of the year, and the fifth-sixth characters are the sequence number.
27		USERCD		1 C	163	This field is not currently used
28		UPDATE		2 C	164 (165)	No Longer Used Previous: Coded date of update. Refer to field 105 (UPDATDAT)

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29		LINK		5 C	166	(170)	Not in use. Previous Value: 1.Used for High Speed Corridor. 2.This was the link identification code (LIC) from the rail network model for the line on which the crossing lies. The LIC is a five-digit code incorporating the alphabetical abbreviation of the owning railroad and a sequence number.
							Refer to field 89 (HSCORRID)
30	II.1.C.	DAYTHRU	Day Thru Train Movements	2 N	171	(172)	0 to 99
31		DAYSWT	Switching	2 N	173	(174)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete
							(Reference Field135, TOTALTRN, and Field 136 TOTALSWT)
32		NGHTTHRU	Night Thru Train Movements	2 N	175	(176)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete
							(Reference Field 135, TOTALTRN)
33		NGHTSWT	Night Switching Movements	2 N	177	(178)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete
							(Reference Field 135, TOTALTRN, and Field 136 TOTALSWT)
34	II.1.D.	LT1MOV	Less Than One Movement Per Day?	1 C	179		0 = At least one train per day 1= Less than one train per day Enter a check if train frequency is less than one train per day.
35	II.2.A.	MAXTTSPD	Maximum Timetable Speed	3 N	180	(182)	Values are 1 to 150
36	II.2.B	MINSPD	From Min:	3 N	183	(185)	Values are 1 to 150
37	II.2.B.	MAXSPD	To Max:	3 N	186	(188)	Values are 1 to 150
38	II.3.	MAINTRK	Main	1 N	189		Values are 0 to 9 for main track
39	II.3.	OTHRTRK	Other	2 N	190	(191)	Values are 0 to 99 for other tracks
40	II.3.	OTHRDES	Specify	10 C	192	(201)	Description, if other tracks exist

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41	II.4.	SEPIND	Does Another RR Operate a Separate Trk. (Y/N)?	1 C	202		1=Yes 2=No
42	II.4.	SEPRR	Specify	16 C	203	(218)	Up to 4 valid RR codes Code should not be repeated
43	II.5.	SAMEIND	Does Another RR Operate Over Your Trk. (Y/N)?	1 C	219		1=Yes 2=No
44	II.5	SAMERR	Specify	16 C	220	(235)	Up to 4 valid RR codes Code should not be repeated
45		WDCODE	Warning Device Code	1 C	236		Highway warning device class at crossing. **New Values:** 1 - No signs or signals 2 - Other signs or signals 3 - Crossbucks 4 - Stop signs 5 - Special Active Warning Devices 6 - Highway traffic signals, wigwags, bells, or other activated 7. Flashing lights 8 - All other Gates 9 - Four Quad (full barrier) Gates (Note: SPECPRO (Field 64) has WDCODE=6; and WARNACTO (Field 142) has WDCODE=6).:
46		XBUCKRF	Crossbucks-Reflectorized	1 N	237		**Previous Values** 1 - No sign or signal 2 - Other signs or signals 3 - Stop signs 4 - Crossbucks 5 - Non-train activated special protection 6 - Highway traffic signals, wigwags, or bells 7 - Flashing lights 8 - Gates (Previous Values: 0 to 9) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 138, XBUCK)
47		XBUCKNRF	Crossbucks-Non-reflectorized	1 N	238		(Previous Values: 0 to 9) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 138, XBUCK)

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48	III.2.B.	STOPSTD	Highway Stop Signs	1 N	239		0 to 9 9 represents 9 or more
49		STOPOTH	Other Stop Sign	1 N	240		Previous Values: (0 to 9, 9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete Conversion: If at least one of the two "Other Signs: Specify" field sets (OTHSGN1 and OTHDES1, or OTHSGN2 and OTHDES2) are blank, the value for STOPOTH (Other Stop Sign) was placed in the blank OTHSGN1 (or OTHSGN2) field, and "OTHRSTPSGN" was entered in the corresponding OTHDES1 (or OTHDES2) field.
50	III.2.F.	OTHSGN1	Other Signs:	1 N	241		0 to 9 9 represents 9 or more
51	III.2.F.	OTHDES1	Specify:	10 C	242	(251)	Any Alphanumeric Description
52	III.2.F.	OTHSGN2	Other Signs:	1 N	252		0 to 9 9 represents 9 or more
53	III.2.F.	OTHDES2	Specify:	10 C	253	(262)	Any Alphanumeric Description
54		GATERW	Gates-Red & White	1 N	263		Previous Values: 0 to 9 (9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 139, GATES)
55		GATEOTH	Gates-Other	1 N	264		(Previous Values: 0 to 9, (9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete (Reference Field 139, GATES)
56	III.3.C.	FLASHOV	Canti-levered (or bridged) Flashing Lights-Over Traffic Lane	1 N	265		0 to 9 9 represents 9 or more
57	III.3.C.	FLASHNOV	Canti-levered (or bridged) Flashing Lights-Not Over Traffic	1 N	266		0 to 9 9 represents 9 or more
58	III.3.D.	FLASHMAS	Mast Mounted Flashing Lights:	1 N	267		0 to 9 9 represents 9 or more
59	III.3.F.	FLASHOTH	Other Flashing Lights:	1 N	268		0 to 9 9 represents 9 or more

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60	III.3.F.	FLASHDES	Specify:	9 C	269 (277)	Any Alphanumeric Description
61	III.3.G.	HWYSGNL	Hwy. Traffic. Signals	1 N	278	0 to 9 9 represents 9 or more
62	III.3.H.	WIGWAGS	Wigwags	1 N	279	0 to 9 9 represents 9 or more
63	III.3.J.	BELLS	Bells	1 N	280	0 to 9 9 represents 9 or more
64	III.4.	SPECPRO	Specify Warning Device:	20 C	281 (300)	Description of Non-train Activated Device
65	III.1.	NOSIGNS	No Signs or Signals	1 C	301	Enter a check if no signs or signals are present. 1=No signs or signals 0=At least one sign or signal
66	IV.10.	COMPOWER	Commercial Power Available (Y/N)?	1 C	302	1=Yes 2=No
67	III.7.	SGNLEQP	Signaling for Train Operation: Is Track Equipped with Train Signals	1 C	303	1=Yes 2=No
68	III.6.	SPSEL	Train Detection	1 C	304	**New Values:** 1= Constant Warning Time 3=DC/AFO 2= Motion Detectors 4=other 5=none (Previous Values: 1=Yes 2=No, 3=N/A) Conversion: Yes (1) CWT (1) No (2)-> DC/AFO(3) N/A (3)-> None (5) (Previous: Does Xing Signal Provide Speed Selection for Trains?)
69	IV.1.	DEVELTYP	Type of Development	1 C	305	Values are 1 to 5 1=Open Space 2=Residential 3=Commercial 4=Industrial 5=Institutional

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70	IV.5	HWYPVED	Is Highway Paved?	1 C	306	1=Yes		2=No
71	IV.7.	DOWNST	Does Track Run Down a Street (Y/N)?	1 C	307	1=Yes		2=No
72	III.2.E.	PAVEMRK	Pavement Markings:	1 C	308	Values are 1 to 4 1=Stop lines, 2=RR Xing Symbols, 3=No Markings New Values: 1=Less than 75ft 2=75 to 200ft		4=Stop lines and RR Xing Symbols 3=200 to 500 ft 4=N/A
73	IV.8.	HWYNEAR	Nearby Intersecting Highway?	1 C	309	Previous Values:	1=Yes	2=No
						Conversion: Yes >Less than 75 ft. No >N/A (See Field 152, HWYNRSIG)		
74	III.2.C.	ADVWARN	RR Advance Warning Signs	1 C	310	1=Yes		2=No
75	IV.2.	XANGLE	Smallest Crossing Angle	1 C	311	1 to 3 (measurement is in degrees) 1=0-29 2=30-59 3=60-90		
76	IV.6.	SURFACE	Crossing Surface:	1 C	312	Conversion: New 1. Timber 2. Asphalt 3. Asphalt & Flange 4. Concrete 5. Concrete and Rubber 6. Rubber 7. Metal 8. Unconsolidated 9. Other (Specify) (See Field 151, XSUROTHR)	Old 1. Sectional Treated Timber 2.Full Wood Plank 3.Asphalt 4.Concrete Slab 5.Concrete Pavement 6.Rubber 7.Metal Sections 8.Other Metal 9.Unconsolidated 0.Other (Specify)	
77	IV.3.	TRAFICLN	No. of Traffic Lanes Crossing RR:	1 C	313	Values are 1 to 9		
78	IV.4.	TRUCKLN	Are Truck Pullout Lanes Present (Y/N)?	1 C	314	1=Yes	2=No	

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79	V.2.	STHWY1	Is crossing on State Highway System (Y/N)?	1 C	315		1=Yes 2=No
80	V.1.	HWYSYS	Highway System:	2 C	316	(317)	01=Interstate National Highway System 02=Other National Highway System 03=Other Federal-Aid Highway-Not NHS 08=Non Federal-Aid (NHS=National Highway System)
81	V.3.	HWYCLASS	Functional Classification of Road at Crossing:	2 C	318	(319)	01, 02, 06, 07, 08, 09, 11, 12, 14, 16, 17, 19 01=R. Interstate, 02=R. Oth. Prin. Arterial, 06=R. Minor Arterial, 07=R. Major Collector, 08=R. Minor Collector, 09=R. Local, 11=U. Interstate, 12=U. Oth. Freeway and Expressway, 14=U. Oth. Prin. Arterial, 16=U. Minor Arterial, 17=U. Collector, 19=U. Local [R=Rural, U=Urban]
82	V.5.	AADT	AADT	6 C	320	(325)	000001 – 999999 Annual Average Daily Traffic (AADT)
83	V.6.	PCTTRUK	Estimate Percent Trucks:	2 C	326	(327)	00 – 99 Estimate of % of Trucks
84	I.23.	LATITUDE	Latitude	10 7 N	328	(337)	Grade crossing latitudinal coordinate, from the center of the crossing.
85	I.24.	LONGITUD	Longitude	11 7 N	338	(348)	Grade crossing longitudinal coordinate, from the center of the crossing.
86	I.25.	LLSOURCE	Lat/Long Source	1 C	349		1 = actual 3. Federal Actual 2=estimated 4. Federal Derived –[For FRA Internal Use] Blank=neither
87	III.8.	INTRPRMP	Interconnection / Pre-emption	1 C	350		New values: 0 = not interconnected 1 = simultaneous preemption 2 = advance preemption 9 = n/a Previous values: 0 = not interconnected 2 = simultaneous preemption 1 = interconnected 3 = advance preemption 9 = n/a) Conversion: 1. (Interconnected)->1(simultaneous pre.) 2. (simulta. Pre.)->1(simultaneous pre.) 3. (adv.pre.)->2(adv pre.)
88	III.2.D.	HUMPSIGN	Hump Signs	1 C	351		1=Yes 2=No 3=Unknown Is Hump crossing sign is installed?
89	I.21.	HSCORRID	[High Speed] Corridor ID Code	2 C	352	(353)	Code must be in High Speed Corridor Table (obtain from FRA)
90		DOTACPD		8 6 N	354	(361)	DOT Accident Prediction Value

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91		ACPDDATE		8 DATE	362	(369)	Indicates when DOT ACPD was generated.
92		ACCCNT1		2 N	370	(371)	Accident history – current complete year
93		ACCCNT2		2 N	372	(373)	Accident history – prior year
94		ACCCNT3		2 N	374	(375)	Accident history – two years prior
95		ACCCNT4		2 N	376	(377)	Accident history – three years prior
96		ACCCNT5		2 N	378	(379)	Accident history – four years prior
97		HISTDATE		8 DATE	380	(387)	Indicates when ACCCNT1- ACCCNT5 were generated
98	V.7.	SCHLBUS	Avg. No of School Buses Passing Over the Crossing on a School Day	3 N	388	(390)	Value must be 0 through 999
99	I.16	WHISTBAN	New: Whistle Ban (Quiet Zone)	1 C	391		Valid values: 0=no 2=partial 1=24 hour 9=unknown
100	I.19	PASSCD	Type of Passenger Service	1 C	392		Valid values: A = AMTRAK operates over crossing B = AMTRAK and other passenger train operates over crossing C = Other passenger train operates over crossing including Seasonal D = None
101	I.20	PASSCNT	Avg Passenger Train Count Per Day	3 N	393	(395)	Value must be 0 through 999. [Cannot exceed the total train movements]
102	I.10	RRMAIN	Parent RR	4 C	396	(399)	Valid Railroad Code
103	I.11	XINGOWNR	Crossing Owner	4 C	400	(403)	Valid Railroad or Company Code
104		SOURCE		1 C	404		This field will indicate the source of the last update. Valid values: H = other hard copy P = mass-update printout I = inventory form T = magnetic tape M = other magnetic media X = GX O = foreign files
105		UPDATDAT		8 DATE	405	(412)	This field will contain the date that the last update to the record was posted.

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106		LONGBDAT		8 DATE	413	(420)	This field will contain the same date as the field EFFDATE, in this file, except that the year will be four characters in this data element.
107		LONGEDAT		8 DATE	421	(428)	This field will contain the same date as the field EDATE, in this file, except that the year will be four characters in this data element
108	III.3.B.	FOURQUAD	Four-quadrant gates present	1 C	429		1=Yes 2=No
109		TWOQUAD	Two-quadrant gates present	1 C	430		NOT USED IN NEW FORM
110	I.27.B.	OPENPUB	Private Crossing-Public Access	1 C	431		1=Yes 2=No Blank=Unknown
111	I.28.A.	RRNARR1	Railroad Use	20 C	432	(451)	
112	I.28.B.	RRNARR2	Railroad Use	20 C	452	(471)	These fields will contain whatever the railroad desires to enter.
113	I.28.C.	RRNARR3	Railroad Use	20 C	472	(491)	
114	I.28.D.	RRNARR4	Railroad Use	20 C	492	(511)	
115	I.29.A.	STNARR1	State Use	20 C	512	(531)	
116	I.29.B.	STNARR2	State Use	20 C	532	(551)	These fields will contain whatever the State desires to enter.
117	I.29.C.	STNARR3	State Use	20 C	552	(571)	
118	I.29.D.	STNARR4	State Use	20 C	572	(591)	
119	V.5	AADTYEAR	Year for AADT	4 C	592	(595)	This field will contain the year of the last AADT update.
120		AADTCALC		1 C	596		Not used.
121		TRAINDAT		4 C	597	600	Not currently used. Was to contain the year of the last trains update.
122		TRAINCAL		1 C	601		Not used. (This field was to identify how the last trains update was calculated: 1 = actual 2 = estimated Blank = neither)
123	III.9	RESERVE1	Reserved for Future Use	1 C	602		Reserved for future use. (RESERVE1 is 1 C. RESERVE2, RESERVE3, RESERVE4. and RESERVE5 are 3 C each.)

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124	III.10	RESERVE2	Reserved for Future Use	3 C	603	(605)	
125	III.11	RESERVE3	Reserved for Future Use	3 C	606	(608)	
126	III.12	RESERVE4	Reserved for Future Use	3 C	609	(611)	
127	IV.11	RESERVE5	Reserved for Future Use	3 C	612	(614)	
128		DOTCASPD		8 6 N	615	(622)	**DOT Predicted Casualty Rate**
129		DOTFATPD		8 6 N	623	630)	**DOT Predicted Fatality Rate**
130		FUNCCAT		1 C	631		**Not Used.**
131	I.32.	RRCONT	Railroad Contact	10 C	632	(641)	**This field contains the telephone number of the railroad contact associated with the crossing.**
132	I.33.	HWYCONT	State Contact	10 C	642	(651)	**This field contains the telephone number of the State highway contact associated with the crossing.**
133	I.31.	POLCONT	Emergency Contact	10 C	652	(661)	**This field contains the telephone number of the emergency contact associated with the crossing. Normally, this will be the ENS telephone number posted at the crossing or along the railroad branch line.**
134	I.30.	NARR	Narrative	100 C	662	(761)	**No editing will be done on this field**
135	II.1.A.	TOTALTRN	Total Trains	3 N	762	(764)	**0-500 Conversion: TOTALTRN = (DAYTHRU + DAYSWT + NGHTTHRU + NGHTSWT)**
136	II.1.B.	TOTALSWT	Total Switching Trains	3 N	765	(767)	**0-500 Conversion: TOTALSWT = DAYSWT + NGHTSWT**
137	I.15.	ENSSIGN	ENS Sign	1 C	768		**1 = Yes 2 = No**
138	III.2.A.	XBUCK	Crossbucks	2 N	769	(770)	**Conversion: XBUCK = XBUCKRF + XBUCKNRF**
139	III.3.A.	GATES	Gates	2 N	771	(772)	**Conversion: GATES = GATERW + GATEOTH**
140	I.27.C.	PRVSIGNL	Signals -Specify	15 C	773	(787)	**Conversion: If PRVIND = 2 then previous PRVSIGN value will be moved to PRVSGNL.** **(Refer to field 24 (PRVSIGN)**

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141	III.3.E.	FLASHPAI	Number of flashing light pairs	2 N	788	(789)	This field contains the number of flashing light pairs.
142	III.3.K.	WARNACTO	Other Train Activated Warning Devices	9 C	790	(798)	This field contains other train activated warning devices.
143	III.5.	CHANNEL	Channelization Devices with Gates	1 C	799		1=All Approaches 2=One Approach 3=None
144	I.26.	XINGADJ	Adjacent Xing with separate no.?	1 C	800		1=Yes 2=No
145	I.26.	XNGADJNO	Adjacent Xing with separate no.? Provide no.	7 C	801	(807)	Valid crossing number
146	IV.9.	ILLUMINA	Is Xing Illuminated?	1 C	808		1=Yes 2=No
147	V.4.	HWYSPEED	Posted Hwy Speed	3 N	809	(811)	This field contains the posted highway speed.
148		CNTYNAM	County	20 C	812	(831)	Valid County Name
149		TTSTNNAM	Nearest RR Timetable Station	25 C	832	(856)	Valid Timetable Station name
150		CITYNAM	City	20 C	857	(876)	Valid City Name
151	IV.6.	XSUROTHR	Crossing Surface: 9. Other	20 C	877	(896)	Specify Other Crossing Surface
152	IV.8.	HWYNRSIG	Nearby Intersecting Highway? Is it signalized?	1 C	897		1=Yes 2=No

Note: Data file submissions, must, at a minimum, contain the following data fields:

Initiating Agency (INIT),
Crossing Number (CROSSING),
Reason for Update (REASON),
Effective Date (EFFDATE),
State (FIPS Code) (STATE),

FORMAT FOR FRA INVENTORY FIELDS - DATA ENTRY FIELD DESCRIPTION
INVENTORY FIELD ORDER
(Fields not in Form 6180.71 are for FRA Internal Use)

County (FIPS Code) (CNTYCD),
Railroad (RAILROAD),
Type of Crossing (TYPEXING),
Position of Crossing (POSXING),
and the updated data fields