



TXDOT TRAFFIC SIGNAL PREEMPTION INSPECTION FORM

Form 2625
(Rev. 09/23)

Section 1 – General Information					
Reason for Inspection: New Location Annual Inspection System Changes After Incident Other:					
Safety Briefing:	List of Attendees:		Original Design Data Available? Yes No		
Date of Inspection:	Time:		Inspector Certification ID:		
TXDOT District:			TXDOT Traffic Signal ID#:		
Traffic Signal Owner:			Traffic Signal Maintained by:		
Operating Railroad:			Commuter or Amtrak Route? Yes No		
DOT#:	Railroad Subdivision:		Railroad Milepost:		
Other DOT# assigned on adjacent track:			N/A		
Crossing Street Name:			Parallel Street Name:		
City:	State:	County:			
Any roadway geometry changes since last inspection? Yes No					
a. If yes, review impact on existing preemption design calculations. <u>Contact TXDOT Austin TRF/District Railroad Coordinator/Railroad.</u>					
Posted Roadway Speed: mph					
ENS phone number posted at railroad crossing? Yes No					
a. Call ENS phone number to confirm Railroad Dispatching and identify crossing location:					
Remarks:					

Section 2 – Traffic Signal Data						
1. Traffic signal cabinet type:						
a. Changed since last inspection? Yes No N/A Previous Type:						
2. Traffic signal controller - Type: Manufacturer: Model:						
a. Changed since last inspection? Yes No N/A Previous Type: Manufacturer: Model:						
3. Traffic signal controller firmware: Version:						
a. Changed since last inspection? Yes No N/A Previous Version:						
4. Traffic signal design plans in cabinet? Yes No						
a. If yes, date on plans: b. If no, follow up with Agency to locate plans						
5. Traffic signal timing data in cabinet? Yes No						
a. If yes, date on data: b. If no, follow up with Agency to locate data						
6. Preemption warning sticker present in cabinet? Yes No Remarks:						
Preemption railroad interconnect sticker present in police access door? Yes No						
a. If yes, verify information on label is correct b. If no, notify District Railroad Coordinator to install						
7. Does traffic controller have existing backup power supply? Yes No If yes, type - BBU Generator Other:						
8. Interconnection method - Relay Panel Solid State Isolator Card Other:						
9. Interconnection voltage - 120 Vac 24 Vac 12 Vdc 24 Vdc Other:						
10. Interconnection circuits:		Designed:	N/A:	Designed configuration:	Connected:	
					Yes	No
Advance (Vehicle) Preemption						
Advance Pedestrian Preemption						
Gate Down						
Crossing Active						
Traffic Signal Health						

Comments:



OL	Parent \emptyset :
OL	Parent \emptyset :
OL	Parent \emptyset :
OL	Parent \emptyset :

Notes:

Number of Tracks:

14. Worst-case conflicting pedestrian phase number(s):

Programmed:

Other:

Exit plan number:

Remarks:

If no, explain:

Preempt

Programmed:

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[illegible]

32. Maximum preemption timer (min)

<u>Section 4 – Railroad Data</u>				
33. Railroad equipment – Predictor Model:				
a. Change since last inspection? Yes No N/A Previous Predictor Model:				
Preemption Programming				
34. Type of Preemption: Simultaneous Preemption Advance (Vehicle) Preemption Advance Pedestrian Preemption				
35. Track # 1 – Main		Railroad Design Speed (mph):		Remarks
		Designed	Programmed	N/A
a. Warning time				
b. Advance preempt timer				
c. Preempt warning time (Vehicle)				
d. Pedestrian preempt warning time				
e. Approach (feet)				
f. Approach field measured (feet) [If applicable]:				
36. Track # 2 – Main Siding Industry/Spur N/A		Railroad Design Speed (mph):		Remarks
Remarks:		Designed	Programmed	N/A
a. Warning time				
b. Advance preempt timer				
c. Preempt warning time (Vehicle)				
d. Pedestrian preempt warning time				
e. Approach (feet)				
f. Approach field measured (feet) [If applicable]:				
37. Are there more than 2 tracks programmed at the grade crossing? Yes No a. If yes, include additional track data in <u>Appendix</u>				
38. Do railroad switching moves take place at or within the approaches for this grade crossing? Yes No				
39. Is the grade crossing controlled through a DAX (Downstream Adjacent Xing), or remote location? Yes No a. If yes, include DAX information in <u>Appendix</u>				

<u>Section 5 – Traffic Signal/Active Warning Preemption Testing</u>	
40. Method used for advance (vehicle) testing: Test switch Open relay Train activation Other:	
41. Method used for advance pedestrian testing: N/A Test switch Open relay Train activation Other:	
42. Method used for crossing active testing: N/A Test switch Open relay Train activation Other:	
43. Preemption test during worst-case vehicle phase(s) – Operating as designed? Remarks:	
Yes No N/A a. Field measured Right-of-Way Transfer Time (RWTT) (seconds):	
44. Preemption test during best-case vehicle phase – Operating as designed? Remarks:	
Yes No N/A a. Field measured RWTT (seconds):	
45. Preemption test during worst-case pedestrian phase – Operating as designed? Remarks:	
Yes No N/A a. Field measured RWTT (seconds):	
46. Track clearance reservice/second train - Operating as designed? Remarks:	
Yes No N/A	
47. Advance pedestrian preemption test - Operating as designed? Remarks:	
Yes No N/A	
48. Crossing active circuit test - Operating as designed? Remarks:	
Yes No N/A a. Field measured RWTT (seconds):	
49. Gate down circuit test - Operating as designed? Remarks:	
Yes No N/A	
50. Supervised circuit test - Operating as designed? Remarks:	
Yes No N/A	
51. Traffic signal health test - Operating as designed? Remarks:	
Yes No N/A	
52. Backup power supply test - Operating as designed? Remarks:	
Yes No N/A	
53. Blank out sign(s) test - Operating as designed? Remarks:	
Yes No N/A	

List of Attendees

Name:	Company:	Email:	Phone #:

Options list

Section 2 – Traffic Signal Data

- Box
1. **Traffic signal cabinet type:** TS-1; TS-2 Type 1; TS2 Type 2; 332; ACT/ITS; Other (Describe)
 2. **Traffic signal controller:**
Type: 170; 2070; NEMA; Other (Describe)
Manufacturer: Econolite; Intelight; McCain; Siemens; Trafficware; Other (Describe)
Model: 170E; 2070; ASC/2; ASC/3; ATX; Cobalt; EPAC 300; M50; M60; ATC; Other (Describe)
 10. **Designed and Connected configurations:** Blank (if N/A selected); No supervision, single break; No supervision, double break; Supervision, single break; Supervision, double break

Section 3 – Traffic Signal Timing/Phasing

16. **Preemption dwell – Designed and Programmed:** Limited Service; Full Service; Flash – all red; Flash – red/yellow; Other (Describe)
18. **Yellow Trap Resolution – Normal operation and Preemption operation:** All-red before track clearance green; Flashing yellow arrow; Split phase; No yellow trap; Yellow trap still present
20. **Preemption plan purpose – all preempt plans, both designed and programmed:** (1) Preemption interconnect failure; (2) Advance (Vehicle) preemption - Track clearance only; (3) Simultaneous preemption – Track clearance only; (4) Advance (Vehicle) preemption – Track clearance and dwell; (5) Simultaneous preemption – Track Clearance and dwell; (6) Dwell/Limited Service; (7) Second track clearance; (8) Advance (Pedestrian) preemption; N/A

Section 4 – Railroad Data

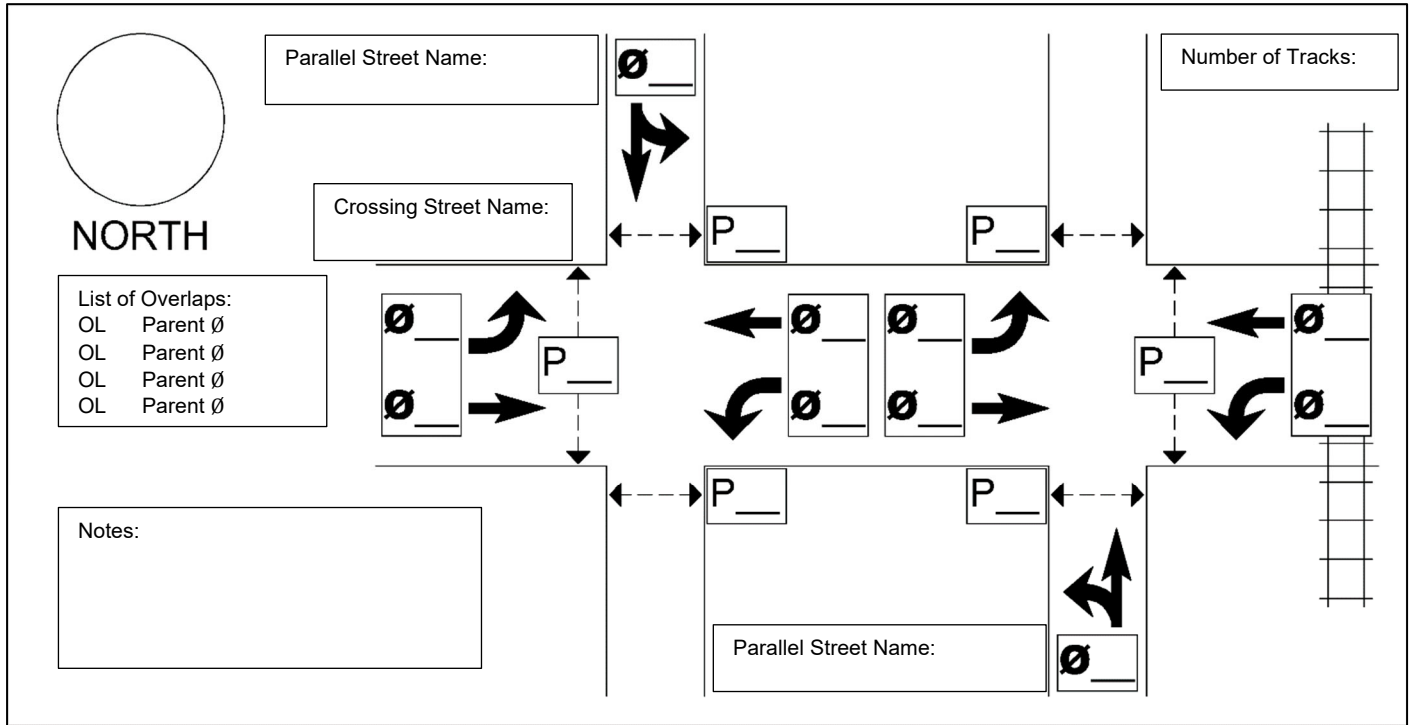
33. **Railroad equipment** – Predictor Model: Ex – GCP3000, GCP4000, GCP5000, HXP2, HXP3, HXP3R, HXP3R2, PMD-2, PMD-3, PMD-4, XP4

<u>Appendix – Pre-signal Data</u>			
54. Describe location of the pre-signal relation to the railroad tracks:	Upstream	Downstream	Remarks:
55. Do motorists routinely stop at pre-signal stop line?	Yes	No	Remarks:
56. Are right turns on red restricted across the railroad tracks?	Yes	No	Remarks:
57. Are the downstream signal indications visible at the pre-signal stop line?	Yes	No	Remarks:
58. Are the pre-signal indications ball or thru arrow indications only?	Yes	No	Remarks:
59. Is the pre-signal progressively timed with the downstream signals?	Yes	No	
a. Designed Clearance Time		b. Programmed Clearance Time	
60. Is a "Stop Here on Red", R10-6 sign installed adjacent to the pre-signal stop line?	Yes	No	Remarks:
61. Is the stop line for the pre-signal located at least 40 feet from the indications?	Yes	No	If no, what is the measurement:
62. Do the pre-signal indications change to and remain red during preemption?	Yes	No	Remarks:
Pre-signal Comments:			

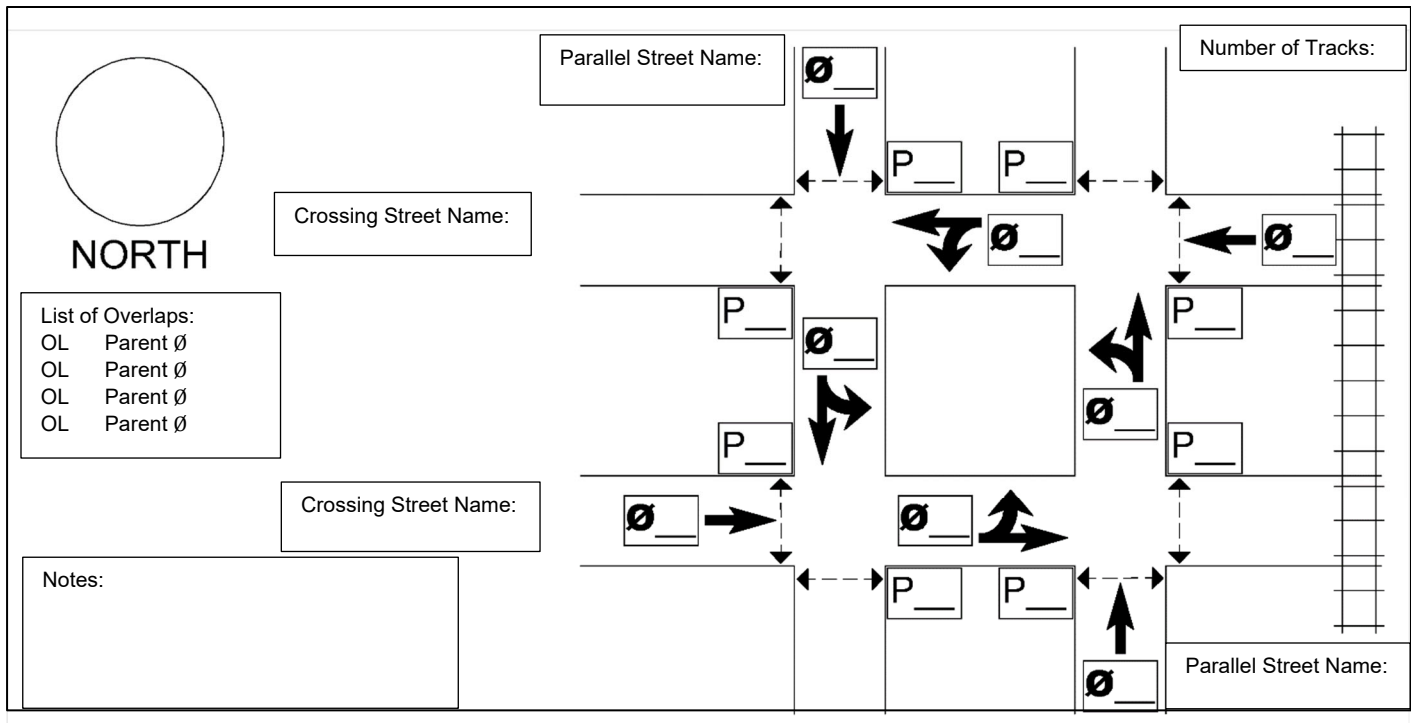
<u>Traffic Signal Phasing with Pre-signal</u>	
<div style="text-align: center; margin-bottom: 20px;"> <p style="font-size: 1.2em; margin: 0;">NORTH</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 20px;"> List of Overlaps: OL Parent Ø: OL Parent Ø: OL Parent Ø: OL Parent Ø: </div>	<div style="text-align: center; margin-bottom: 20px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;">Parallel Street Name:</div> </div> <div style="text-align: center; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;">Crossing Street Name:</div> </div> <div style="text-align: center; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;">Number of Tracks:</div> </div>
Notes:	

Appendix – Additional Intersection Diagrams

Texas Diamond

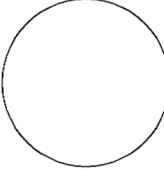


Box Diamond



Appendix – Additional Intersection Diagrams

T-Intersection

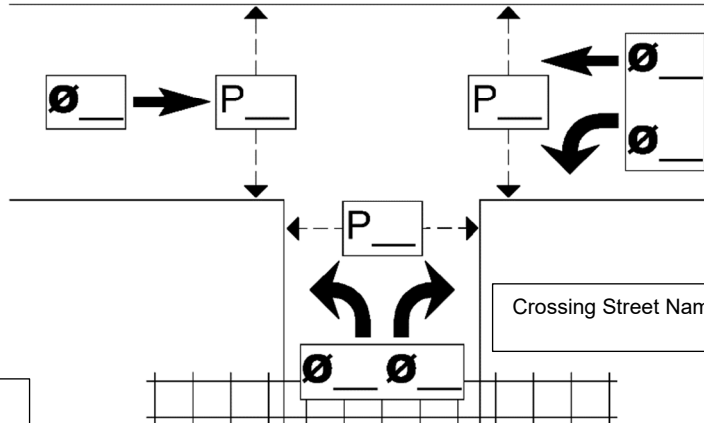


NORTH

Notes:

List of Overlaps:
OL Parent Ø
OL Parent Ø
OL Parent Ø
OL Parent Ø

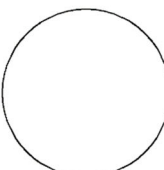
Parallel Street Name:



Crossing Street Name:

Number of Tracks:

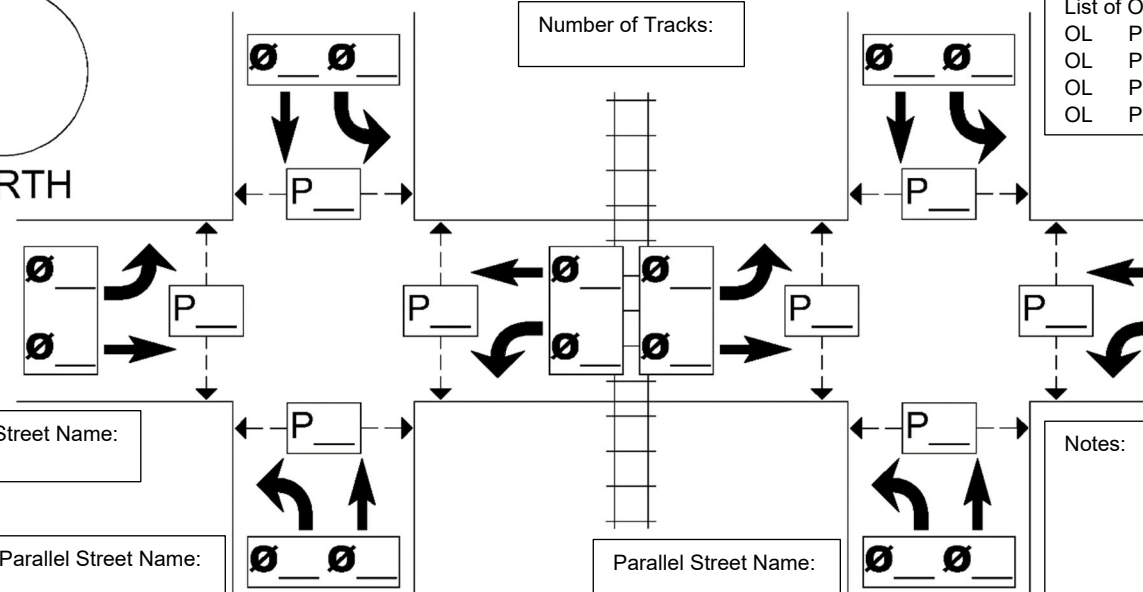
Adjacent Intersections



NORTH

List of Overlaps:
OL Parent Ø
OL Parent Ø
OL Parent Ø
OL Parent Ø

Number of Tracks:



Notes:

Parallel Street Name:

Appendix – Intersection Sketch Area

<u>Appendix – Additional Tracks</u>							
Track #: ____	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a. Warning time							
b. Advance preempt timer							
c. Preempt warning time (Vehicle)							
d. Pedestrian preempt warning time							
e. Approach (feet)							
f. Approach field measured (feet) [If applicable]:							

Track #: ____	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a. Warning time							
b. Advance preempt timer							
c. Preempt warning time (Vehicle)							
d. Pedestrian preempt warning time							
e. Approach (feet)							
f. Approach field measured (feet) [If applicable]:							

Track #: ____	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a. Warning time							
b. Advance preempt timer							
c. Preempt warning time (Vehicle)							
d. Pedestrian preempt warning time							
e. Approach (feet)							
f. Approach field measured (feet) [If applicable]:							

Track #: ____	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a. Warning time							
b. Advance preempt timer							
c. Preempt warning time (Vehicle)							
d. Pedestrian preempt warning time							
e. Approach (feet)							
f. Approach field measured (feet) [If applicable]:							

<i>Appendix – DAX (Downstream Adjacent Xing) Locations</i>					
Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a. Warning time					
b. DAX warning time					
c. Offset distance (feet)					
d. Approach (feet)					
e. Approach field measured (feet) [if applicable]:					

Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a. Warning time					
b. DAX warning time					
c. Offset distance (feet)					
d. Approach (feet)					
e. Approach field measured (feet) [if applicable]:					

Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a. Warning time					
b. DAX warning time					
c. Offset distance (feet)					
d. Approach (feet)					
e. Approach field measured (feet) [if applicable]:					

Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a. Warning time					
b. DAX warning time					
c. Offset distance (feet)					
d. Approach (feet)					
e. Approach field measured (feet) [if applicable]:					

Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a. Warning time					
b. DAX warning time					
c. Offset distance (feet)					
d. Approach (feet)					
e. Approach field measured (feet) [if applicable]:					

Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a. Warning time					
b. DAX warning time					
c. Offset distance (feet)					
d. Approach (feet)					
e. Approach field measured (feet) [if applicable]:					