

OPEN MEETING ITEM



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COMMISSIONERS
SUSAN BITTER SMITH - Chairman
BOB STUMP
BOB BURNS
DOUG LITTLE
TOM FORESE



RECEIVED ROBERT MARVIN
Safety Division Director

ARIZONA CORPORATION COMMISSION
SAFETY DIVISION 2015 FEB 10 P 4: 10

AZ CORP COMMISSION
DOCKET CONTROL

MEMORANDUM

TO: THE COMMISSION

FROM: Robert Marvin
Director
Safety Division

DATE: February 10, 2015

ORIGINAL

Arizona Corporation Commission

DOCKETED

FEB 10 2015

DOCKETED BY

RE: IN THE MATTER OF THE ARIZONA CORPORATION COMMISSION, ON ITS OWN MOTION, TO ESTABLISH AN ARRAY OF PUBLIC RAIL/HIGHWAY GRADE CROSSINGS THROUGHOUT THE STATE OF ARIZONA (DOCKET NO. RR-00000E-15-0012).

The Arizona Corporation Commission (Commission), pursuant to law, submits to the railroad Companies, Cities, Counties and the Arizona Department of Transportation (ADOT), an array of Public Rail/Highway grade crossings where the installation of automatic warning signals or devices should be considered. This array is used as a planning tool by these agencies and railroads for grade crossing upgrades. Staff recommends that the previous array approved by the Commission in Decision 74569, dated June 20, 2014, be reaffirmed along with LED upgrades at various crossings on the Arizona Eastern Railroad, Arizona California Railroad and the Union Pacific Railroad (identified in Attachment 1 to the proposed order) be added to the array. Also, added to the array, is new and improved signal protection at 43rd Avenue and Camelback Road on the BNSF, and various stop/yield sign upgrades on both Union Pacific and BNSF. These additional crossing upgrades were identified by Staff after consultation with ADOT and the Federal Highway Administration.

ORIGINATOR: Chris Watson

SERVICE LIST FOR:
DOCKET NO. RR-00000E-15-0012

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Intermodal Transportation

Douglas A. Ducey, Governor
John S. Halikowski, Director
Dallas Hammit, State Engineer
Steve Boschen, Division Director

January 13, 2015

Arizona Corporation Commission
Attn: Chris Watson
1200 W Washington Street
Phoenix, AZ 85007

Subject: Federal Funding of 2015 Railroad-Highway Crossing Array

Dear Mr. Watson,

Enclosed is the proposed 2015 array for new Railroad-Highway Crossing projects in the State of Arizona.
Please note the following:

1. LED upgrades at various crossings for AZER, ARZC short lines as well as UPRR
2. Improvements to signal protection at Camelback and 43rd Avenue and BNSF tracks in Phoenix
3. Stop/Yield sign upgrade at various crossings for BNSF and UPRR

Sincerely,

Jason Pike
Railroad and Utility Coordinator
Arizona Department of Transportation
205 S. 17th Ave, Room 357 MD 618E
Phoenix, AZ 85007
Phone: 602-712-7149
jpike@azdot.gov

2015 Array for Railroad-Highway Safety Projects in Arizona
Proposed by Arizona DOT, January 13, 2015

DOT Number	RR	RRMP	Location	City In/Near	County	Scope of Work	Estimated Cost
025422P	BNSF	186.76	Camelback Road/43rd Ave/Grand Avenue US60)	Phoenix	Maricopa	Upgrade railroad signal and Advance Preemption	\$1,000,000
System Wide Projects							
Burlington Northern Santa Fe Railroad (BNSF) Stop/Yield Signs			Location (See attached for location details)				Estimated Cost \$46,000
Union Pacific Railroad (UPRR) Stop/Yield Signs			Location (See attached for location details)				\$16,000
Union Pacific Railroad (UPRR) LED Upgrade			Location (See attached for location details)				\$540,000
Arizona and California Railroad (ARZC) LED Upgrade			Location (See attached for location details)				\$140,000
Arizona Eastern Railroad (AZER) LED Upgrade			Location (See attached for location details)				\$360,000
Subtotal							\$2,102,000

2015 Array for Railroad-Highway Safety Projects in Arizona
Proposed by Arizona DOT, January 13, 2015
Burlington Northern Santa Fe Railroad (BNSF) Stop/Yield Signs

DOT Number	RR	RRMP	Location	City In/Near	County	Scope of Work	Estimated Cost
025031V	BNSF	0286.20	Clear Creek Road	Winslow	Navajo	Install Stop/Yield Signs	\$2,000
025033J	BNSF	0286.20	Washington Street	Winslow	Navajo	Install Stop/Yield Signs	\$2,000
025154G	BNSF	0344.00	Cottage Avenue	Flagstaff	Coconino	Install Stop/Yield Signs	\$2,000
025482Y	BNSF	0185.26	55th Avenue	Glendale	Maricopa	Install Stop/Yield Signs	\$2,000
025494T	BNSF	0187.45	Turner Avenue	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025509F	BNSF	0189.32	Cheery Lynn Road	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025510A	BNSF	0189.39	28th Avenue	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025518E	BNSF	0189.66	29th Avenue	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025538R	BNSF	0191.71	Alley near 21st Drive and Portland	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025628P	BNSF	0187.10	44th Avenue	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025632E	BNSF	0508.32	Finance Way	Kingman	Mohave	Install Stop/Yield Signs	\$2,000
025648B	BNSF	0187.05	Turney Avenue	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025725Y	BNSF	0008.85	Cotton Lane	Glendale	Maricopa	Install Stop/Yield Signs	\$2,000
025733R	BNSF	0007.83	Olive Avenue	Glendale	Maricopa	Install Stop/Yield Signs	\$2,000
025770T	BNSF	0508.60	Interstate Way	Kingman	Mohave	Install Stop/Yield Signs	\$2,000
025771A	BNSF	0508.60	Santa Fe Drive	Kingman	Mohave	Install Stop/Yield Signs	\$2,000
025772G	BNSF		Mohave Airport Drive	Kingman	Mohave	Install Stop/Yield Signs	\$2,000
025830A	BNSF	0193.13	Buchanan Street	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025831G	BNSF	0193.05	Lincoln Street	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025841M	BNSF	0194.78	Alley at 11th Avenue	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025842U	BNSF	0194.82	Apache Street	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025850L	BNSF	0191.40	Watkins Road	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
025846W	BNSF	0191.00	Spur on 11th Avenue, south of I17	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
Subtotal							\$46,000

2015 Array for Railroad-Highway Safety Projects in Arizona
Proposed by Arizona DOT, January 13, 2015
Union Pacific Railroad (UPRR) Stop/Yield Signs

DOT Number	RR	RRMP	Location	City In/Near	County	Scope of Work	Estimated Cost
411017N	UPRR	0933.53	Davidson and Battaglia	Eloy	Pinal	Install Stop/Yield Signs	\$2,000
741369E	UPRR	0920.95	Main Avenue at Fertizona	Casa Grande	Pinal	Install Stop/Yield Signs	\$2,000
741378D	UPRR	1022.94	Train Track and Mescal Road	Mescal	Cochise	Install Stop/Yield Signs	\$2,000
748168M	UPRR	0897.23	Buchanan west of 55th Avenue	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
760772G	UPRR	0732.35	Park Road north of I-8	Yuma	Yuma	Install Stop/Yield Signs	\$2,000
903109L	UPRR	0734.76	Factor Avenue	Yuma	Yuma	Install Stop/Yield Signs	\$2,000
748291L	UPRR	0902.20	41st Avenue south of Washington	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
748794E	UPRR	0902.07	41st Avenue south of Washington	Phoenix	Maricopa	Install Stop/Yield Signs	\$2,000
Subtotal							\$16,000

2015 Array for Railroad-Highway Safety Projects in Arizona
Proposed by Arizona DOT, January 13, 2015
Union Pacific Railroad (UPRR) LED Upgrade

DOT Number	RR	RRMP	Location	City In/Near	County	Scope of Work	Estimated Cost
741564V	UPRR	0915.30	13 Street	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
741568G	UPRR	0001.63	Southern Avenue	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
741570H	UPRR	0002.66	Baseline Road	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
741579U	UPRR	0006.75	Ray Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741580N	UPRR	0007.80	Chandler Blvd	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741583J	UPRR	0915.96	College Avenue	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
741645E	UPRR	0916.49	Rural Road	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
741647T	UPRR	0918.45	Southbound Price Road MP53.33	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
741651H	UPRR	0920.97	Extension Road	Mesa	Maricopa	Upgrade Flashers to LED	\$20,000
741653W	UPRR	0921.84	MacDonald Road	Mesa	Maricopa	Upgrade Flashers to LED	\$20,000
741658F	UPRR	0922.50	8th Avenue	Mesa	Maricopa	Upgrade Flashers to LED	\$20,000
741659M	UPRR	0922.98	Southern Avenue	Mesa	Maricopa	Upgrade Flashers to LED	\$20,000
741661N	UPRR	0923.99	Baseline Road	Mesa	Maricopa	Upgrade Flashers to LED	\$20,000
741664J	UPRR	0926.01	Elliot Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741665R	UPRR	0927.00	Warner Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741668L	UPRR	0928.07	Ray Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741669T	UPRR	0928.57	GalveStreeton Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741670M	UPRR	0928.82	Erie Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741672B	UPRR	0929.25	Commonwealth Street	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741675W	UPRR	0930.59	Willis Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741676D	UPRR	0931.10	Germann Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741681A	UPRR	0934.10	Chandler Heights Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
741683N	UPRR	0936.14	Hunt Hwy	Chandler Heights	Maricopa	Upgrade Flashers to LED	\$20,000
741812B	UPRR	0923.99	Baseline Road	Mesa	Maricopa	Upgrade Flashers to LED	\$20,000
748176E	UPRR	0918.54	Northbound Price Road MP53.33	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
748318T	UPRR	0005.19	Carver Road	Tempe	Maricopa	Upgrade Flashers to LED	\$20,000
920154A	UPRR	0923.89	Ryan Road	Chandler	Maricopa	Upgrade Flashers to LED	\$20,000
Subtotal							\$540,000

2015 Array for Railroad-Highway Safety Projects in Arizona
 Proposed by Arizona DOT, January 13, 2015
 Arizona and California Railroad (ARZC) LED Upgrade

DOT Number	RR	RRMP	Location	City In/Near	County	Scope of Work	Estimated Cost
025903H	AZRC	20.3	SR71	Aguila	Maricopa	Upgrade Flashers to LED	\$20,000
025904P	AZRC	22.3	Eagle Eye Road	Aguila	Maricopa	Upgrade Flashers to LED	\$20,000
025910T	AZRC	40.3	69E	Love	La Paz	Upgrade Flashers to LED	\$20,000
025912G	AZRC	44.92	2nd Street	Wenden	La Paz	Upgrade Flashers to LED	\$20,000
025916J	AZRC	49.78	Hall Street	Salome	La Paz	Upgrade Flashers to LED	\$20,000
025917R	AZRC	50.2	Center Street	Salome	La Paz	Upgrade Flashers to LED	\$20,000
025924B	AZRC	80	Main Street	Bouse	La Paz	Upgrade Flashers to LED	\$20,000
Subtotal							\$140,000

2015 Array for Railroad-Highway Safety Projects in Arizona
Proposed by Arizona DOT, January 13, 2015
Arizona Eastern Railroad (AZER) LED Upgrade

DOT Number	RR	RRMP	Location	City In/Near	County	Scope of Work	Estimated Cost
742373X	AZER	1230.69	New St.	Claypool	Gila	Upgrade Flashers to LED	\$20,000
742371U	AZER	1230.3	Pineway	Globe	Gila	Upgrade Flashers to LED	\$20,000
742369H	AZER	1230.02	Old Oak	Globe	Gila	Upgrade Flashers to LED	\$20,000
742367U	AZER	1229.26	US Hwy 60	Globe	Gila	Upgrade Flashers to LED	\$20,000
742348P	AZER	1221.06	Broad St./Jess Hayes	Globe	Gila	Upgrade Flashers to LED	\$20,000
742335N	AZER	1200.79	Old San Carlos Road TR 170	San Carlos	Gila	Upgrade Flashers to LED	\$20,000
742264U	AZER	1146.4	100 South	Pima	Graham	Upgrade Flashers to LED	\$20,000
742261Y	AZER	1145.83	Main	Pima	Graham	Upgrade Flashers to LED	\$20,000
742245P	AZER	1141.03	Reay Lane	Thatcher	Graham	Upgrade Flashers to LED	\$20,000
742244H	AZER	1140.75	Stadium Ave	Thatcher	Graham	Upgrade Flashers to LED	\$20,000
742242U	AZER	1139.83	1st Ave	Thatcher	Graham	Upgrade Flashers to LED	\$20,000
742241M	AZER	1139.23	8th St.	Safford	Graham	Upgrade Flashers to LED	\$20,000
742239L	AZER	1138.74	20th Ave	Safford	Graham	Upgrade Flashers to LED	\$20,000
916301D	AZER	1138.58	14th Ave	Safford	Graham	Upgrade Flashers to LED	\$20,000
742219A	AZER	1137.76	8th Ave	Safford	Graham	Upgrade Flashers to LED	\$20,000
741895S	AZER	1216.45	Zorilla	Clifton	Graham	Upgrade Flashers to LED	\$20,000
741893D	AZER	1216.03	Coronado Blvd US 191	Clifton	Greenlee	Upgrade Flashers to LED	\$20,000
741861X	AZER	1183.31	High St. (US 70)	Duncan	Greenlee	Upgrade Flashers to LED	\$20,000
Subtotal						Upgrade Flashers to LED	\$360,000

BEFORE THE ARIZONA CORPORATION COMMISSION

COMMISSIONERS

SUSAN BITTER SMITH - Chairman
BOB STUMP
BOB BURNS
DOUG LITTLE
TOM FORESE

IN THE MATTER OF THE ARIZONA CORPORATION COMMISSION, ON ITS OWN MOTION, TO ESTABLISH AN ARRAY OF PUBLIC RAIL/HIGHWAY GRADE CROSSINGS THROUGHOUT THE STATE OF ARIZONA.

DOCKET NO. RR-00000E-15-0012

DECISION NO. _____

ORDER

Open Meeting
March 16 and 17, 2015

Phoenix, Arizona

BY THE COMMISSION:

FINDINGS OF FACT

1. Arizona Revised Statutes (A.R.S.) Sections 40-337.02 and 40-337.03 relate to the allocation of funds for the installation of automatic warning signals and devices at public railroad grade crossings and the determination of locations where the installation of automatic warning signals should occur on that date.

2. A.R.S. Section 40-337.03 enables the Arizona Corporation Commission (Commission), which has the exclusive power to determine and prescribe the manner and terms of installation of warnings at each railway crossing pursuant to A.R.S. Section 40-337, to establish an array of public railroad grade crossings to plan for the orderly installation of automatic warning signals and devices.

3. Although numerous hazard index formulas have been proposed over many years to assess the relative hazard of a grade crossing based upon some combination of its characteristics, no one such formula, or combination thereof, has universal acceptance. The development of the array and the determination of the warnings to be installed at crossings also involve the exercise of judgment.

1 4. The array establishes crossings where the installation of automatic warning signals and
2 devices should be considered in accordance with the above referenced legislation, depending upon
3 the availability of monies, material, labor and other factors involved in such installation. The
4 inclusion of a crossing on the array, however, does not mean that existing warning signs or signals, if
5 any, are inadequate to enable an ordinary, prudent motorist to safely pass over the crossing.
6 Conversely, a public crossing not appearing on the array does not exclude it from being improved
7 under this program if it becomes an increased hazard to safety prior to the issuance of the next annual
8 array.

9 5. The array first became effective on July 1, 1977. It is in the best interest of public
10 safety, considering the current state and federal appropriations which have been allocated for the
11 acquisition and installation of automatic warning signals and devices at public grade crossings in
12 Arizona, for the array to be supplemented as provided herein.

13 6. In order to promote the timely installation of warning signals and crossing upgrades,
14 Staff, with representatives of Arizona Department of Transportation and the Federal Highway
15 Administration, have determined that an additional crossing should be placed on the 2015 array for
16 upgrade with improved signal protection and 31 crossings be added to the array for various signage
17 upgrades and 52 crossings be added to the array for LED flasher upgrades.

18 7. Staff has recommended that the array approved by the Commission in
19 Decision No. 74569 dated June 20, 2014, be reaffirmed and that the crossings listed in Attachment 1
20 be added to the array.

21 CONCLUSIONS OF LAW

22 1. Some Public railway/highway grade crossings in Arizona are eligible to receive
23 Federal funds for the installation of automatic warning signals and devices under the 23 U.S.C. § 130.
24 These monies were appropriated in recognition of the public responsibility to improve safety at
25 railway/highway crossings, and may be used to pay one hundred (100) percent of the total installation
26 cost of each project.

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1 2. Pursuant to the Commission's exclusive power over railway/highway crossings, the
2 array shall establish the public grade crossings in Arizona at which changes in signalization may be
3 made under A.R.S. Sections 40-337, *et seq.*

4 ORDER

5 THEREFORE, IT IS ORDERED that the array established in Decision No. 74569, as well as
6 the crossings listed on Attachment 1, be and hereby is approved.

7 IT IS FURTHER ORDERED that this Decision shall become effective immediately.

8
9 **BY THE ORDER OF THE ARIZONA CORPORATION COMMISSION**

10
11 _____
CHAIRMAN

COMMISSIONER

12
13 _____
COMMISSIONER

COMMISSIONER

COMMISSIONER

14
15 IN WITNESS WHEREOF, I, JODI JERICH, Executive
16 Director of the Arizona Corporation Commission, have
17 hereunto, set my hand and caused the official seal of this
18 Commission to be affixed at the Capitol, in the City of Phoenix,
19 this _____ day of _____, 2015.

20 _____
JODI JERICH
21 EXECUTIVE DIRECTOR

22 DISSENT: _____

23
24 DISSENT: _____

25 REM:BHL:rbo\CHH
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1 SERVICE LIST FOR: 2015 Crossing Array
2 DOCKET NO. RR-00000E-15-0012

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4 Railroad Engineering Coordinator
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