LEGEND

EXISTING	NEW	DESCRIPTION
		NO. 9/9B PULL BOX (ITS)
		NO. 8 PULL BOX
		NO. 7 PULL BOX
		NO. 7E PULL BOX W/EXTENSION
		CABINET
		CONDUIT
		CONDUIT INSTALLATION METHOD CHANGE
	#	CONSTRUCTION NOTE

LENGTH OF PROJECT

Monroe Ave to Pima St along Miller Rd &
Miller Rd to Eason Ave along Monroe Ave

Miller Rd: *Begin Station = 95+00*
End Station = 325+00

Monroe Ave: *Begin Station = 35+00*
End Station = 155+00

Total Miles = 6.63 Miles

INDEX OF SHEETS

SHEET NO.	SHEET TYPE
1	Face Sheet
2	Legend, Sheet Index, & Construction Notes
3	ITS General Notes
4	RID General Notes
5	Summary of Quantities
6	City of Buckeye Standard Detail Index
7-11	City of Buckeye ITS Standard Details
12-20	Control Point Plan Sheets
21-23	Splice Detail Sheets
24	Pull Box & Branch Fiber Schedule
25-40	ITS Plan Sheets
41-46	Corner Detail Sheets
47-48	Traffic Control Sheets

DESIGN DATA

Miller Rd; Monroe Ave to Pima St
2023 AADT 19,160
Monroe Ave; Miller Rd to Eason Ave
2023 AADT 13,536

POSTED SPEED

Miller Rd; Monroe Ave to Alarcon Blvd:
35 MPH
Miller Rd; Alarcon Blvd to Pima St:
45 MPH
Monroe Ave; Miller Rd to Eason Ave:
25 MPH

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates

X = 494,200
Y = 870,178

CONSTRUCTION NOTES:

1. *Existing Conduit. Protect in Place.*
2. *Existing Pull Box. Protect in Place.*
3. *Existing Cables. Protect in Place.*
4. *Existing Traffic Signal Cabinet. Protect in Place.*
5. *Install Two New 7-Way Micro-Duct Conduits by Trenching per Detail A.*
6. *Install Two New 7-Way Micro-Duct Conduits by Directional Drill.*
7. *Install New 1-2” Conduit by Trenching per Detail A.*
8. *Install New No. 9 Pull Box per Detail E.*
9. *Install New No. 8 Pull Box Per Detail F.*
10. *Install New 288 SMFO Micro-Fiber Cable.*
11. *Install New Dielectric Loose Tube 288 SMFO Cable.*
12. *Install New 12 SMFO Cable.*
13. *Coil 100’ of SMFO (288) Cable in No. 9 Pull Box.*
14. *Coil 25’ of SMFO (288) Cable in No. 8 Pull Box*
15. *Coil 25’ of SMFO (12) Count Cable with PolyMod Termination Panel in Traffic Signal Cabinet.*
16. *Install New Splice Closure and Fusion Splice SMFO (12) Cable to Designated Fibers of SMFO (288) Cable as Shown in the Splice Details.*
17. *Not Used*
18. *Route New Fiber Through Existing Conduit.*
19. *Install New Field Hardened Ethernet Switch.*
20. *Route New Conduit into New Pull Boxes per Detail D.*
21. *7-Way Micro-Duct Coupler Location.*
22. *Install 1-2” Conduit by Directional Drill.*
23. *Existing ITS Utility Vault. Protect in Place.*
24. *Route New Conduit into Existing Utility Vault.*
25. *Modify Existing Splice Closure and Fusion Splice SMFO (12) Cable to Designated Fibers of SMFO (288) Cable as Shown in the Splice Details.*
26. *Coil 50' of SMFO (12) Cable in No. 9Pull Box.*
27. *Coil 25' of SMFO (12) Cable in No. 8 Pull Box.*
28. *Coil 100' of SMFO (288) Cable in Existing ITS Utility Vault.*
29. *Install New Splice Closure and Fusion Splice Loose Tube SMFO (288) to Micro-Fiber SMFO (288) as shown in the Splice Details.*

1

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
1	REVISED CONSTRUCTIO NOTES	EG	10/16/2026

	NAME	DATE
DESIGN	EEC	09/26
DRAWN	EJS	09/26
CHECKED	GA/TMM	09/26

50066 THOMAS M. MCCULLOUGH REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

Kimley»Horn

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP

LEGEND, SHEET INDEX & CONSTRUCTION NOTES

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
-		ARIZ.	T0630	BKY-0(216)T	2	48	
MILEPOST	LOCATION Miller Road and Monroe Avenue						DWG NO. T-01.01
STRUCTURE NO.	TRACS NO. T0630 01C						___ OF___

Plan Sheet Summary of Quantities

BID ITEM NO.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																
			25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	TOTAL
7320788	SINGLE MODE FIBER OPTIC CABLE (12 COUNT)	L.FT.	0	0	0	0	0	0	0	0	0	0	0	0	0	470	0	0	470
9240144	MISCELLANEOUS WORK (2, 7-WAY MICRO-DUCT) (DTL I) (DIRECTIONAL DRILL)	L.FT.	390	1585	1410	680	850	620	845	1020	500	255	0	0	1170	125	1025	240	10715
9240145	MISCELLANEOUS WORK (2, 7-WAY MICRO-DUCT) (DTL A) (TRENCHED)	L.FT.	0	485	600	1330	1065	1290	0	1080	1410	595	0	0	0	0	0	0	7855
9240148	MISCELLANEOUS WORK (SINGLE MODE FIBER OPTIC CABLE) (LOOSE TUBE 288 FIBERS)	L.FT.	1160	0	0	0	0	0	0	0	0	0	0	0	835	1990	0	0	3985
9240149	MISCELLANEOUS WORK (SINGLE MODE FIBER OPTIC CABLE) (MICRO CABLE 288 FIBERS)	L.FT.	390	2070	2010	2010	1915	1910	1820	2100	1910	2285	1930	150	1170	125	1025	240	23060
9240172	MISCELLANEOUS WORK (NO. 8 PULL BOX, STD DTL F)	EACH	1	0	0	0	0	1	1	0	0	0	0	0	3	0	1	0	7
9240173	MISCELLANEOUS WORK (NO. 9 PULL BOX, STD DTL E)	EACH	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	4
9240175	MISCELLANEOUS WORK (FIBER OPTIC SPLICE CLOSURE)	EACH	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2

1 (at sheet 25 and TOTAL)

Corner Detail Summary of Quantities

BIF ITEM NO.	ITEM DESCRIPTION	UNIT	SHEET NUMBER						
			41	42	43	44	45	46	TOTAL
7320788	SINGLE MODE FIBER OPTIC CABLE (12 COUNT)	L.FT.	180	80	50	30	225	100	665
9240144	MISCELLANEOUS WORK (2, 7-WAY MICRO-DUCT) (DTL I) (DIRECTIONAL DRILL)	L.FT.	150	155	45	0	30	40	420
9240145	MISCELLANEOUS WORK (2, 7-WAY MICRO-DUCT) (DTL A) (TRENCHED)	L.FT.	35	0	0	0	0	0	35
9240148	MISCELLANEOUS WORK (SINGLE MODE FIBER OPTIC CABLE) (LOOSE TUBE 288 FIBERS)	L.FT.	20	0	0	0	215	95	330
9240149	MISCELLANEOUS WORK (SINGLE MODE FIBER OPTIC CABLE) (MICRO CABLE 288 FIBERS)	L.FT.	165	205	250	160	30	40	850
9240174	MISCELLANEOUS WORK (TERMINATION PANEL)	EACH	2	2	2	1	2	2	11
9240175	MISCELLANEOUS WORK (FIBER OPTIC SPLICE CLOSURE)	EACH	2	2	2	1	1	1	9
9240176	MISCELLANEOUS WORK (FIELD HARDENED ETHERNET SWITCH)	EACH	2	2	2	0	2	2	10

1 (at 9240144 and 9240145)

NO.1 | DESCRIPTION OF REVISION - REVISED QUANTITIES | IMAGE BY: - EG | DATE: - 10/16/2026

	NAME	DATE
DESIGN	EEC	09/26
DRAWN	EJS	09/26
CHECKED	GA/TMM	09/26

50066 THOMAS M. MCCULLOUGH REGISTERED ARIZONA U.S.A.

Kimley»Horn

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP

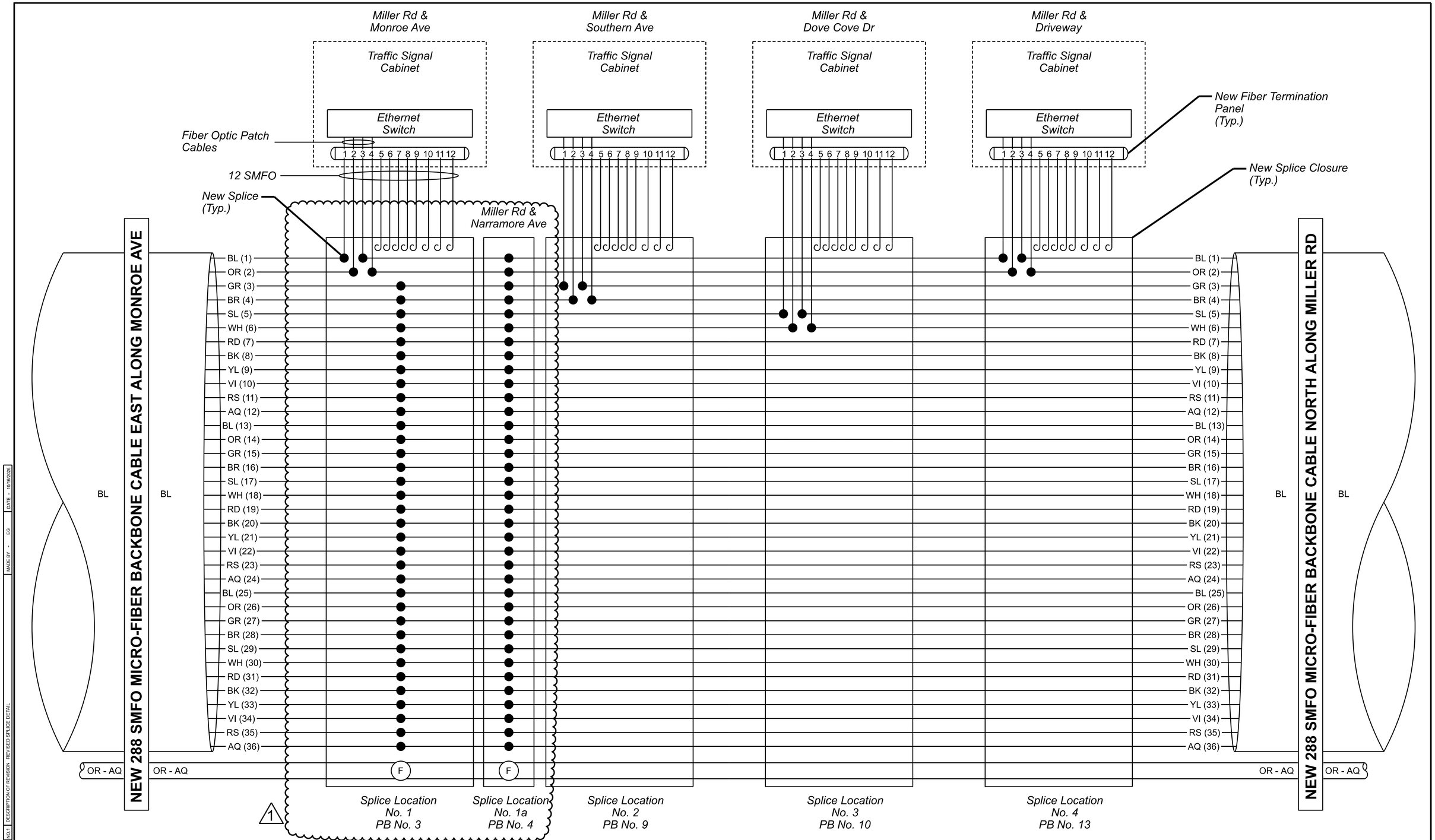
SUMMARY OF QUANTITIES

ROUTE: -
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	T0630	BKY-0(216)T	5	48	

LOCATION: Miller Road and Monroe Avenue
DWG NO. T-01.04
TRACS NO. T0630 01C
___ OF ___



NO.	DESCRIPTION OF REVISION	MADE BY	DATE
1	REVISED SPLICE DETAIL	EG	10/16/2026

	NAME	DATE
DESIGN	EEC	09/26
DRAWN	EJS	09/26
CHECKED	GA/TMM	09/26

50066 THOMAS M. MCCULLOUGH — REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. — BASIC STRONG ENGINEERING — ARIZONA, U.S.A.

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP

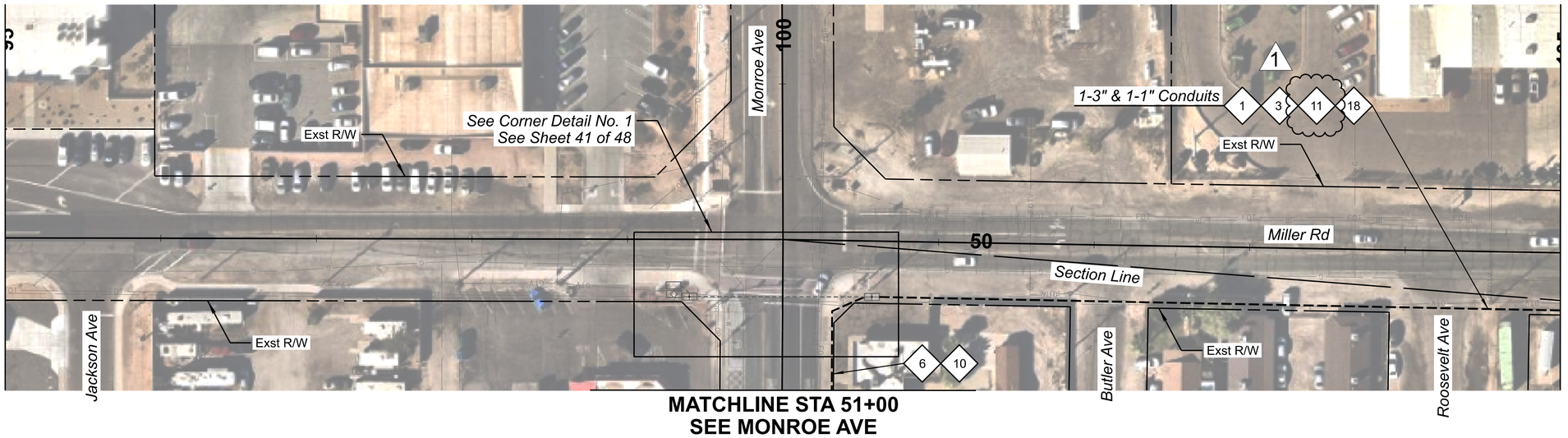
SPLICE DETAIL
(1 OF 3)

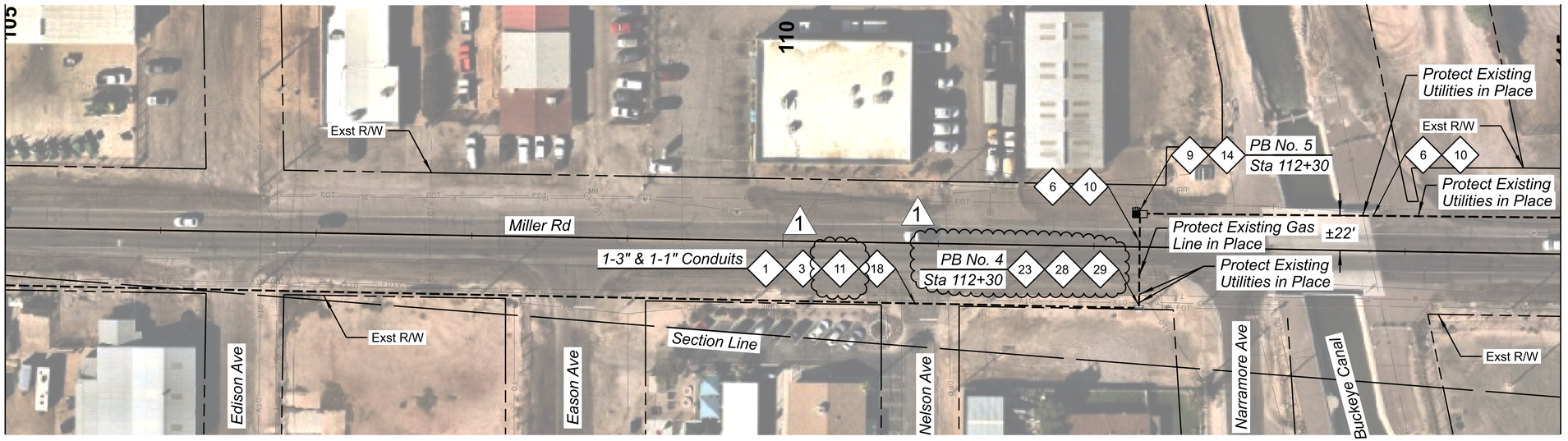
ROUTE: -
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	T0630	BKY-0(216)T	21	48	

LOCATION: Miller Road and Monroe Avenue
DWG NO. T-04.01
TRACS NO. T0630 01C
____ OF ____

10:30:53 AM 10/16/2026 Erubiel.Guerrero K:\PHX_Roadway\Worksets\ADOT_CONNECT_PROJECTS_10.10_191342048-Miller and Monroe ITS\dgn\Traffic\mm_mi-SD01.dgn





CONSTRUCTION NOTES:

1

- 1 — Existing Conduit. Protect in Place.
- 3 — Existing Cables. Protect in Place.
- 6 — Install Two New 7-Way Micro-Duct Conduits by Directional Drill.
- 9 — Install New No. 8 Pull Box Per Detail F.
- 10 — Install New 288 SMFO Micro-Fiber Cable.
- 11 — Install New Dielectric Loose Tube 288 SMFO Cable.
- 14 — Coil 25' of SMFO (288) Cable in No. 8 Pull Box
- 18 — Route New Fiber Through Existing Conduit.
- 23 — Existing ITS Utility Vault. Protect in Place.
- 28 — Coil 100' of SMFO (288) Cable in Existing ITS Utility Vault.
- 29 — Install New Splice Closure and Fusion Splice Loose Tube SMFO (288) to Micro-Fiber SMFO (288) as shown in the splice details

NO.	DESCRIPTION OF REVISION - REVISED DESIGN AND CONSTRUCTION NOTES	MADE BY -	DATE -
1		EG	10/16/2026

50066
THOMAS M. MCCULLOUGH
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	EEC	09/26
DRAWN	EJS	09/26
CHECKED	GA/TMM	09/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP

Miller Rd
ITS Installation
Sta 95+00 to 115+00

ROUTE -
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	T0630	BKY-0(216)T	25	48	

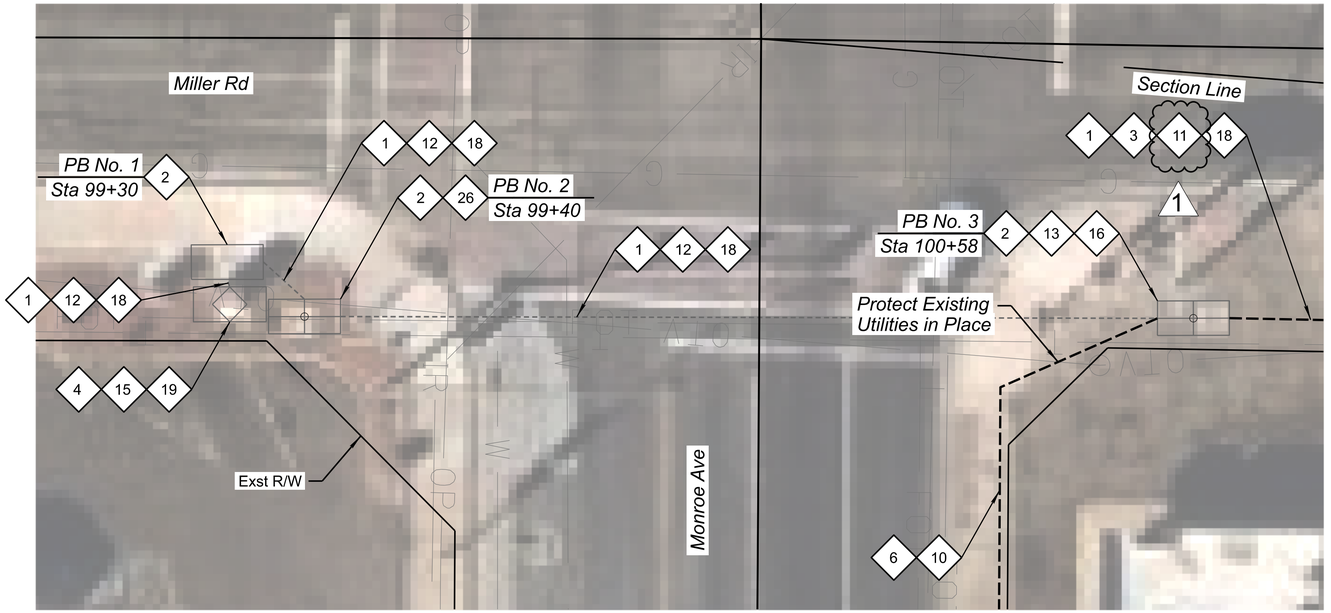
LOCATION Miller Road and Monroe Avenue

DWG NO. T-06.01

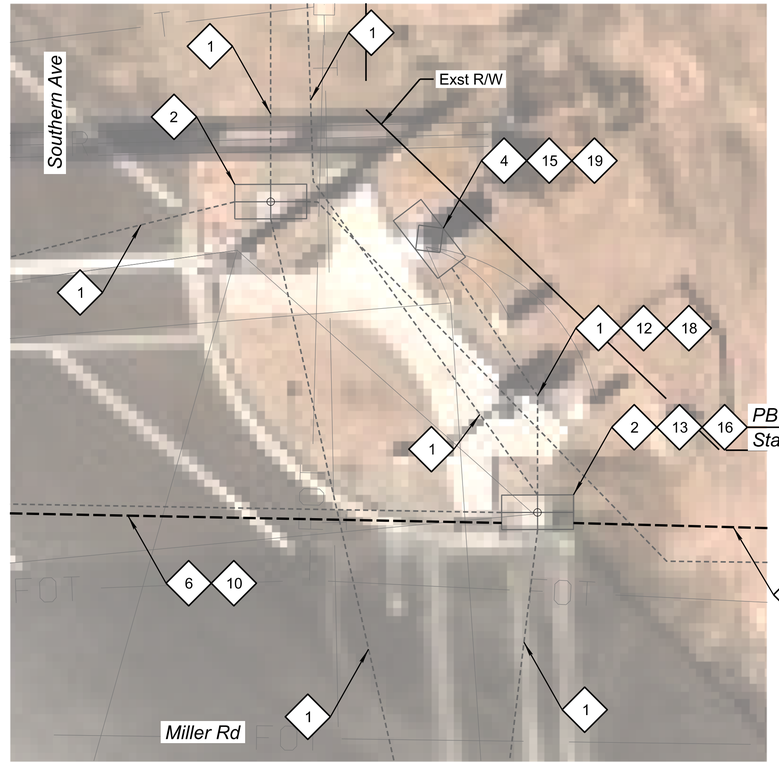
TRACS NO. T0630 01C

___ OF ___

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Corner Detail No. 1



Corner Detail No. 2

CONSTRUCTION NOTES:

1. *Existing Conduit. Protect in Place.*
2. *Existing Pull Box. Protect in Place.*
3. *Existing Cables. Protect in Place.*
4. *Existing Traffic Signal Cabinet. Protect in Place.*
5. *Install Two New 7-Way Micro-Duct Conduits by Trenching per Detail A.*

1

6. *Install Two New 7-Way Micro-Duct Conduits by Directional Drill.*
10. *Install New 288 SMFO Micro-Fiber Cable.*
11. *Install New Dielectric Loose Tube 288 SMFO Cable.*
12. *Install New 12 SMFO Cable.*
13. *Coil 100' of SMFO (288) Cable in No. 9 Pull Box.*
15. *Coil 25' of SMFO (12) Count Cable with PolyMod Termination Panel in Traffic Signal Cabinet.*
16. *Install New Splice Closure and Fusion Splice SMFO (12) Cable to Designated Fibers of SMFO (288) Cable as Shown in the Splice Details.*
18. *Route New Fiber Through Existing Conduit.*
19. *Install New Field Hardened Ethernet Switch.*
26. *Coil 50' of SMFO (12) Cable in No. 9 Pull Box.*

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
-	REVISED DESIGN AND CONSTRUCTION NOTES	EG	10/16/2026

REGISTERED PROFESSIONAL ENGINEER — 50066 THOMAS M. MCCULLOUGH — CERTIFICATE NO. — DATE SIGNED 10/16/2026 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	EEC	09/26
DRAWN	EJS	09/26
CHECKED	GA/TMM	09/26

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP

Miller Rd
Corner Details
No. 1 & No. 2

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
-		ARIZ.	T0630	BKY-0(216)T	41	48	
MILEPOST	LOCATION Miller Road and Monroe Avenue						DWG NO. T-08.01
STRUCTURE NO.	TRACS NO. T0630 01C						___ OF ___