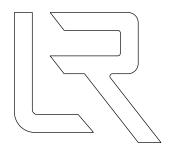
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		1	80		
				JOB	NO.	061468				
				UNIVERSITY AVE.						
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CITY OF LITTLE ROCK, AR

PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION



FIBER OPTIC COMMUNICATIONS &
ADAPTIVE SIGNAL CONTROL TECHNOLOGY (ASCT)
CONSTRUCTION PLANS

UNIVERSITY AVE FROM
I-30 EB RAMP TO CANTRELL RD (STATE HWY 10)

APPROVAL
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION



LIST OF PLAN SHEETS

- 1 TITLE SHEET
 2 & 2A NOTES SHEET & SUMMARY OF QUANTITIES
- 3 KEY LAYOUT SHEET
- 4-22 COMMUNICATIONS PLAN SHEETS 23-69 INTERSECTION DETAIL SHEETS
- 70-77 INSTALLATION DETAILS
 78-80 MAINTENANCE OF TRAFFIC

SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL
601	MOBILIZATION	LS	1
SS & 603	MAINTENANCE OF TRAFFIC	LS	1
SP&701	SYSTEM LOCAL CONTROLLER TS 2 - TYPE 2, E-NET (8 PHASE)	EA	23
SP	CONTROLLER CABINET	EA	3
SP & 701	CONTROLLER CABINET RELOCATION	EA	1
SP	FIBER OPTIC SPLICE	EA	258
SP	FIBER OPTIC CABLE, SM 72 (AERIAL)	LF	23100
SP	FIBER OPTIC CABLE, SM 36 (AERIAL)	LF	615
SP	FIBER OPTIC CABLE, SM 72 (UG)	LF	10846
SP	FIBER OPTIC SPLICE ENCLOSURE	EA	22
711	PULL BOX (FIBER OPTIC)	EA	47
SP	FIBER OPTIC DROP CABLE, PRETERMINATED	EA	16
SP	FIBER OPTIC TERMINATION CABINET	EA	1
SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1
SP	FUSION SPLICER FOR RIBBON FIBER	EA	1
SP	SYSTEM SOFTWARE UPGRADE	EA	1
SP	FIBER CONNECTION INTEGRATION	LS	1
SP	ATCS INTERSECTION MODIFICATION	EA	24
SP	ATCS INTERSECTION MODIFICATION ATCS PROCESSING UNIT	EA	24
SP	VIDEO DETECTOR (IP)	EA	110
SP	NETWORK CABLE, EXTERIOR, CAT 5E	LF LF	19830
SP	ETHERNET SWITCH T100/1000 HARDENED (8 PORT Gb w/ 2 fiber ports)	EA	25
SP	POWER OVER ETHERNET EXTENDER	EA	15
SP&701	ETHERNET SWITCH MULTIPORT LAYER 3	EA	2
706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	EA	2
SP&706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	EA	20
708	TRAFFIC SIGNAL CABLE (20C)	L.F.	460
708	TRAFFIC SIGNAL CABLE (5C)	L.F.	1000
708	TRAFFIC SIGNAL CABLE (3C)	L.F.	19330
710	NON-METALLIC CONDUIT (3")	LF	1010
SP & 709	RISER ASSEMBLY	EA	7

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS			
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				JOB	NO.	061468					
				UNIVERSITY AVE.							
				NOTES AND SUMMARY OF QUANTITIES							

ABBREVIATIONS

APPROX.	APPROXIMATELY	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AQ	AQUA	NO(S)	NUMBER(S)
ASSY(S)	ASSEMBLY(S)	N.T.S.	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	O.H.	OVERHEAD
BK	BLACK	OR	ORANGE
BL	BLUE	P	POWER
BR	BROWN	PB	PULL BOX
CCTV	CLOSED CIRCUIT TELEVISION	PTZ	PAN TILT AND ZOOM
COAX	COAXIAL	PVC	POLYVINYLCHLORIDE CONDUIT
COMM.	COMMUNICATIONS	RCV	RECEIVE
DET	DETECTOR	RD	RED
DIA	DIAMETER	RGS	RIGID GALVANIZED STEEL
EB	EAST BOUND	REFL.	REFLECTIVE
EOP	END OF PROJECT	REQ'D	REQUIRED
E.O.T.L.	EDGE OF TRAVEL LANE	RT	RIGHT
EXIST	EXISTING	SCH.	SCHEDULE
F	FIBERS	SHLD.	SHOULDER
FCC	FEDERAL COMMUNICATIONS COMMISSION	SL	SLATE
FO	FIBER OPTIC	SM	SINGLE MODE
GR	GREEN	STA.	STATION
HAR	HIGHWAY ADVISORY RADIO	TMC	TRANSPORTATION MANAGEMENT CENTER
HDPE	HIGH DENSITY POLYETHYLENE	TSP	TECHNICAL SPECIAL PROVISIONS
HEX	HEXAGONAL	TYP	TYPICAL
INFO	INFORMATION	UL	UNITED LABORATORIES
IP	INTERNET PROTOCOL	V	VOLTS
ITS	INTELLIGENT TRANSPORTATION SYSTEM	VI	VIOLET
LF	LINEAR FEET	W	WATTS
LT	LEFT	W/	WITH
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	WB	WEST BOUND
		WH	WHITE

YL

YELLOW



TRAFFIC SIGNAL NOTES

- 1. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2017) NATIONAL ELECTRICAL CODE, NFPA 101 (2015) LIFE SAFETY CODE, STATE ELECTRICAL CODE AND LOCAL ELECTRICAL CODE.
- 2. EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) FROM GROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND E.G.C. TO GROUND LUG OF CONTROL CABINET AND TO POLE GROUND. ENSURE THAT ONLY ONE NEUTRAL-TO-GROUND BOND EXISTS IN THE SYSTEM AND THAT IT IS AT THE MAIN BREAKER.
- 3. CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE.
- 4. TRAFFIC CONTROLLER CABINET AND LAYOUT SHALL BE SUCH THAT IT IS NOT NECESSARY TO SHUT DOWN POWER OR REMOVE LOAD SWITCHES IN ORDER TO EASILY TEST OR MODIFY DETECTOR INPUTS TO THE CONTROLLER.
- 5. CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS.
- 6. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, STANDARD DRAWINGS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITIONS.
- 7. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD AS SHOWN IN THE STANDARD DRAWINGS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- 8. TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BLACK BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.
- 9. PAVEMENT MARKINGS SHOWN FOR REFERENCE ONLY.
- 10. ALL CONCRETE PULL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE THREE (3") INCH DIAMETER UNLESS SPECIFIED ON PLANS.
- 11. CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT.
- 12. HARDWARE INPUTS MAY BE DETERMINED BY SUPPLIER. EACH DETECTOR OUTPUT SHALL INPUT THE CONTROLLER THROUGH A SEPARATE INPUT UNLESS OTHERWISE NOTED AND BE PROGRAMMED TO ACTUATE THE ASSOCIATED PHASE. COMBINATION (COMB.) DETECTORS SHALL ALSO BE PROGRAMMED TO PROVIDE VEHICLE COUNT/OCCUPANCY DATA.
- 13. TO DETERMINE UTILITY CLEARANCES ABOVE THE TRAFFIC SIGNAL POLE, REFER TO THE POLE SCHEDULE FOR VERTICAL SHAFT HEIGHT. WHERE THE POLE SCHEDULE INDICATES THAT A LUMINAIRE ARM WILL BE USED, THIRTY-EIGHT (38°) FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE LUMINAIRE ARM. WHERE THE POLE SCHEDULE INDICATES A TRAFFIC SIGNAL POLE WITHOUT A LUMINAIRE ARM, A HEIGHT OF TWENTY-ONE (21°) FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL SIX (6°) FEET SHOULD BE USED DIRECTLY ABOVE "VIDEO DETECTOR" AT LOCATIONS SHOWN ON THE SIGNAL PLANS.

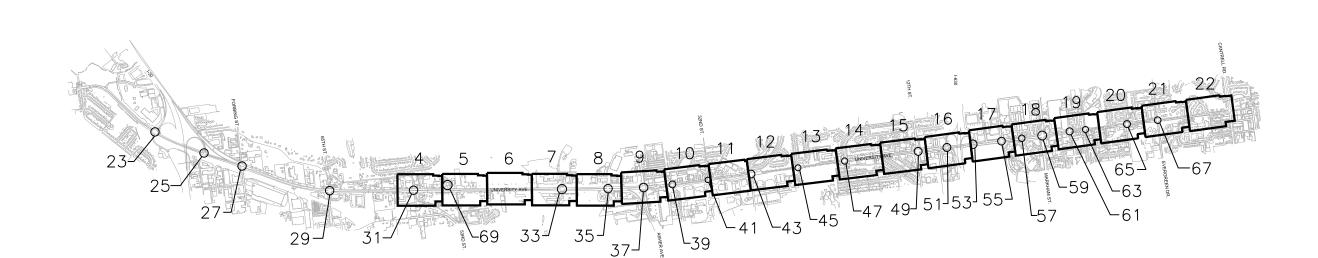
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				67	ARK.		2A	80	
				JOB	NO.	061468			
						UNIVERSITY AVE.			
				NOTES					

- 14. CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HAND-HOLE COVER AT BASE OF POLE. TERMINAL STRIP SHALL PROVIDE PROTECTION TO PREVENT EXPOSURE TO THE PUBLIC IN THE EVENT THAT POLE COVER IS MISSING.
- 15. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.
- 16. ONE VIDEO PROGRAMMNG MODULE SHALL BE PROVIDED FOR AIMING AND SETUP OF DETECTORS IF THE VIDEO SYSTEM CANNOT BE ADJUSTED THROUGH HARDWARE AND SOFTWARE PROVIDED BY ITEMS WITHIN THE IOR
- 17. TRAFFIC SIGNAL CONTRACTOR MUST NOTIFY RESIDENT ENGINEER OR ASSIGNED DEPARTMENT PROJECT INSPECTOR EACH DAY PRIOR TO PERFORMING ANY WORK. NO WORK ON TRAFFIC SIGNALS WILL BE ALLOWED OR APPROVED WITHOUT THIS PRIOR NOTIFICATION.
- 18. DOOR PANEL TEST PUSH BUTTONS SHALL ACTUATE INDICATED PHASES. DETECTOR ASSIGNMENTS AND/OR SIDE PANEL TO WORK AS DESIRED BY THE ENGINEER/CITY OF LITTLE ROCK.
- 19. ALL SYSTEM DETECTOR RACKS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY THE MAIN CONTROLLER CABINET POWER SURGE PROTECTION.
- 20. CONTRACTOR TO INSTALL NEW SIGNAL EQUIPMENT REQUIRED FOR ADAPTIVE SIGNAL SYSTEM FURNISHED BY SOFTWARE SUPPLIER. CONTRACTOR TO REPLACE EXISTING CONTROLLER, INSTALL VIDEO DETECTION SENSORS TO SUPPLY INFORMATION TO ADAPTIVE SOFTWARE.
- 21. CONTRACTOR TO REPLACE EXISTING 5 SECTION SIGNAL HEADS WITH 4 SECTION FLASHING YELLOW ARROW (FYA) SIGNAL HEADS. INSTALLATION OF FLASHING YELLOW ARROWS WILL REQUIRE CONTROLLER MODIFICATION TO ACCOMODATE NEW FYA. CONTRACTOR IS RESPONSIBLE FOR CABINET MODIFICATION AND ANY NECESSARY EQUIPMENT FOR FYA OPERATION.
- 22. EXISTING CONDUIT AND PULL BOXES SHALL BE USED TO RUN VIDEO DETECTION CABLES. ANY BROKEN OR DAMAGED CONDUIT THAT NEEDS TO BE REPLACED SHALL BE APPROVED BY THE ENGINEER.
- 23. CONTRACTOR TO CONTACT THE CITY OF LITTLE ROCK BEFORE REMOVING ANY CALBES. CONTRACTOR MAY USE OLD VIDEO/LOOP WIRING TO PULL NEW CABLES INTO EXISTING CONDUITS.
- 24. CONTRACTOR TO ENSURE MINIMAL DETECTION DOWNTIME. NEW VIDEO DETECTION SHALL BE INSTALLED PRIOR TO REMOVING EXISTING DETECTION.
- 25. USE EXISTING TRAFFIC SIGNAL CABLE FOR NEW FLASHING YELLOW ARROW SIGNAL INSTALLATION.
- 26. ADAPTIVE SYSTEM TO BE WIRED IN USING SPADE CABLES.
- 27. ADVANCE DETECTION INPUTS SHALL BE WIRED TO THE EXISTING D CONNECTOR PANEL IN THE CABINET AND THE SIGNAL CONTROLLER SHALL BE CONFIGURED FOR THE ADVANCE DETECTION AS SYSTEM/COUNT DETECTORS ONLY (NON-CALL DETECTION).
- 28. D CONNECTOR INPUTS FOR ADVANCED CAMERA DETECTION TO CONTROLLER ARE:
 - D1 & D2 = SB ADVANCED
 - D3 & D4 = NB ADVANCED
 - D5 & D6 = EB ADVANCED
 - D7 & D8 = WB ADVANCED



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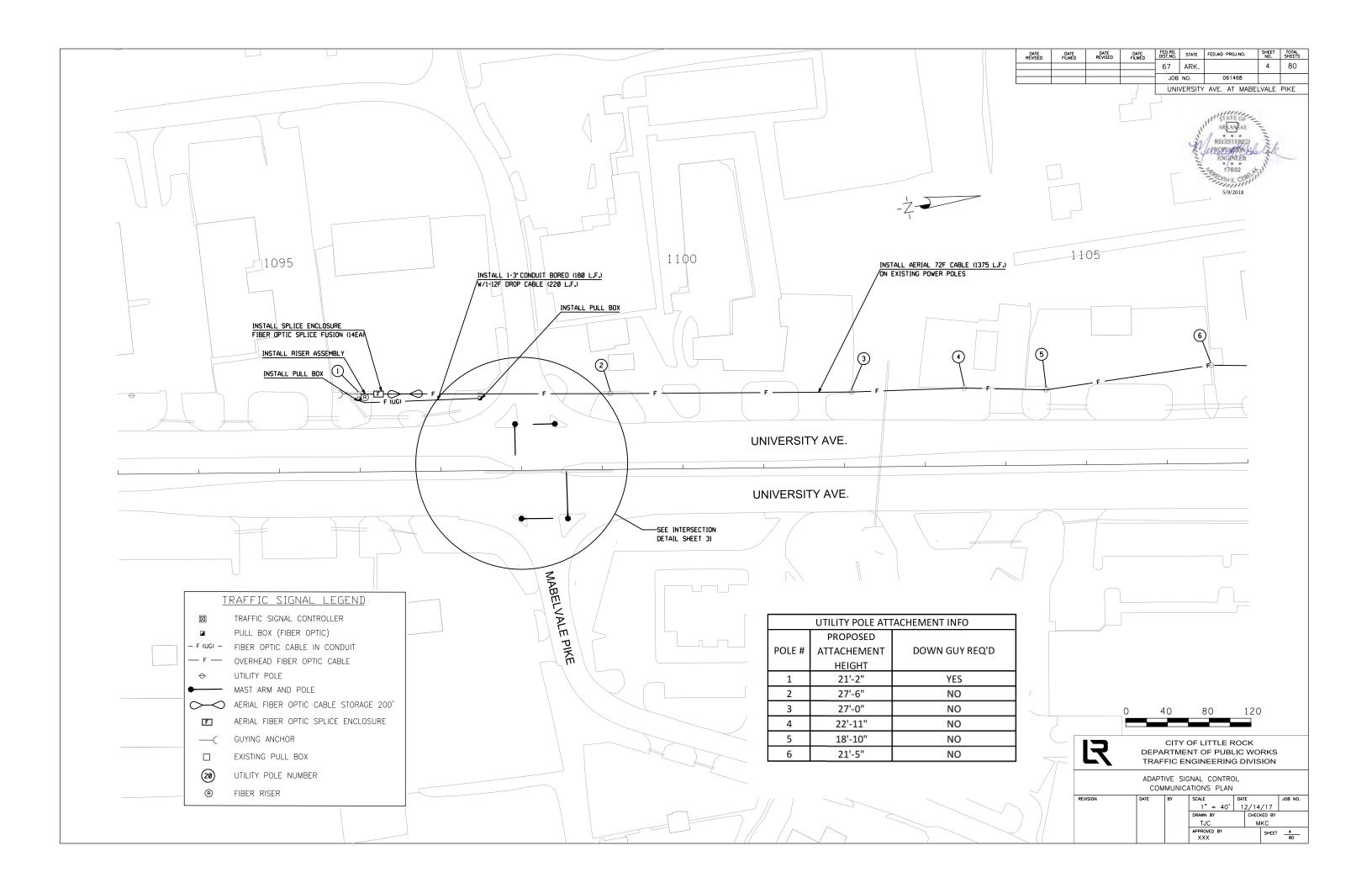
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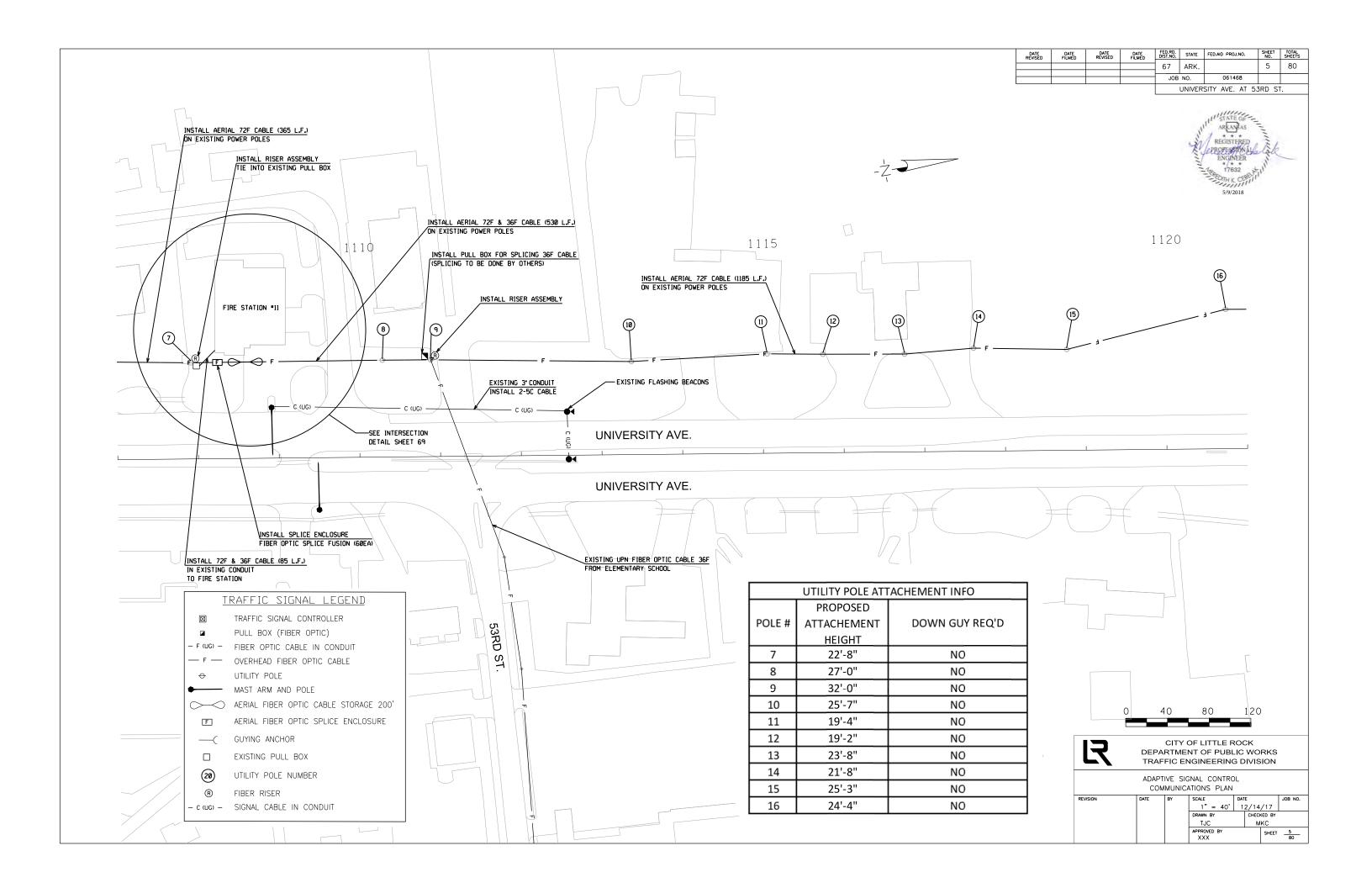
CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

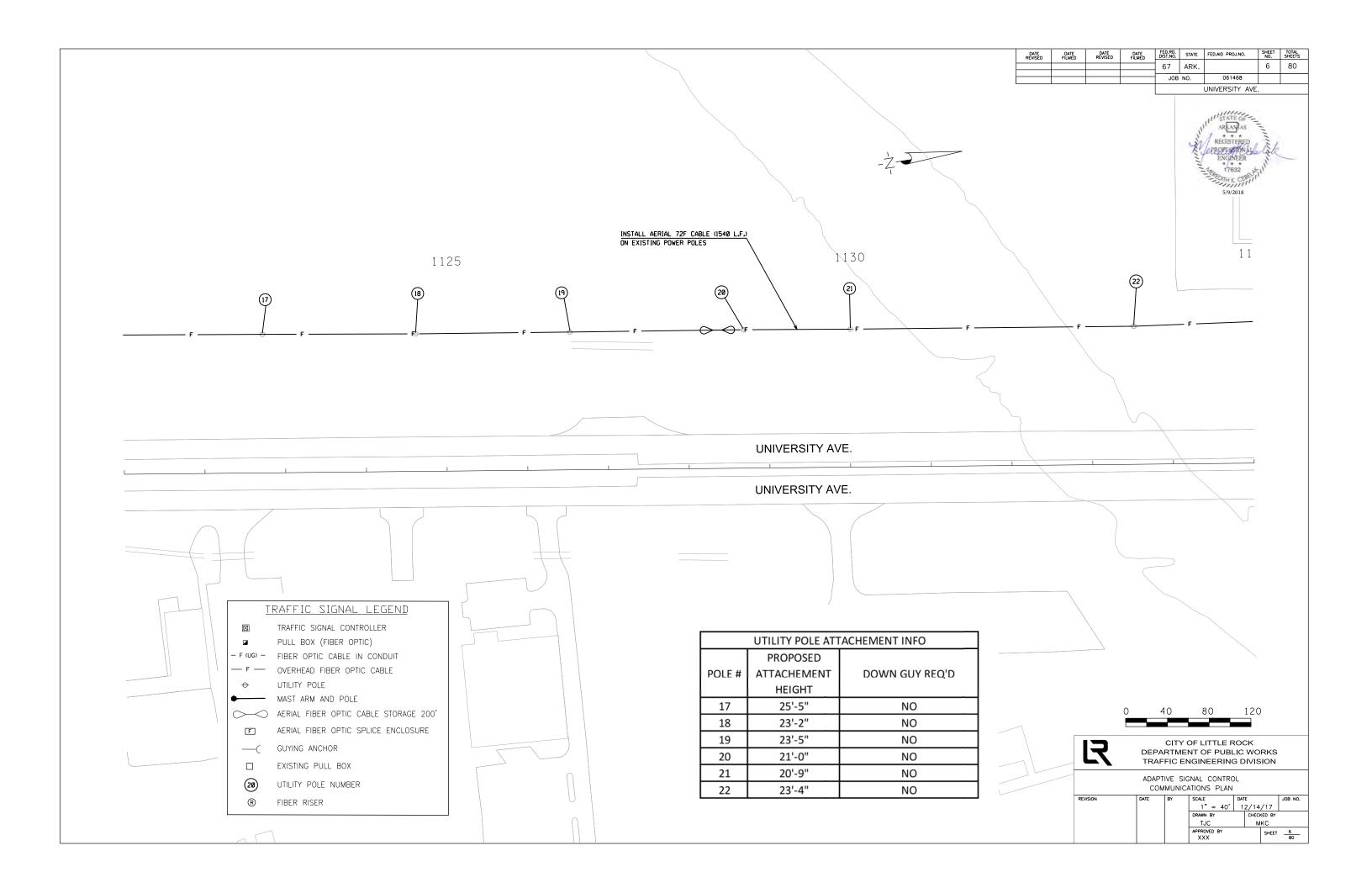
ADAPTIVE SIGNAL CONTROL COMM PLAN KEY LAYOUT SHEET

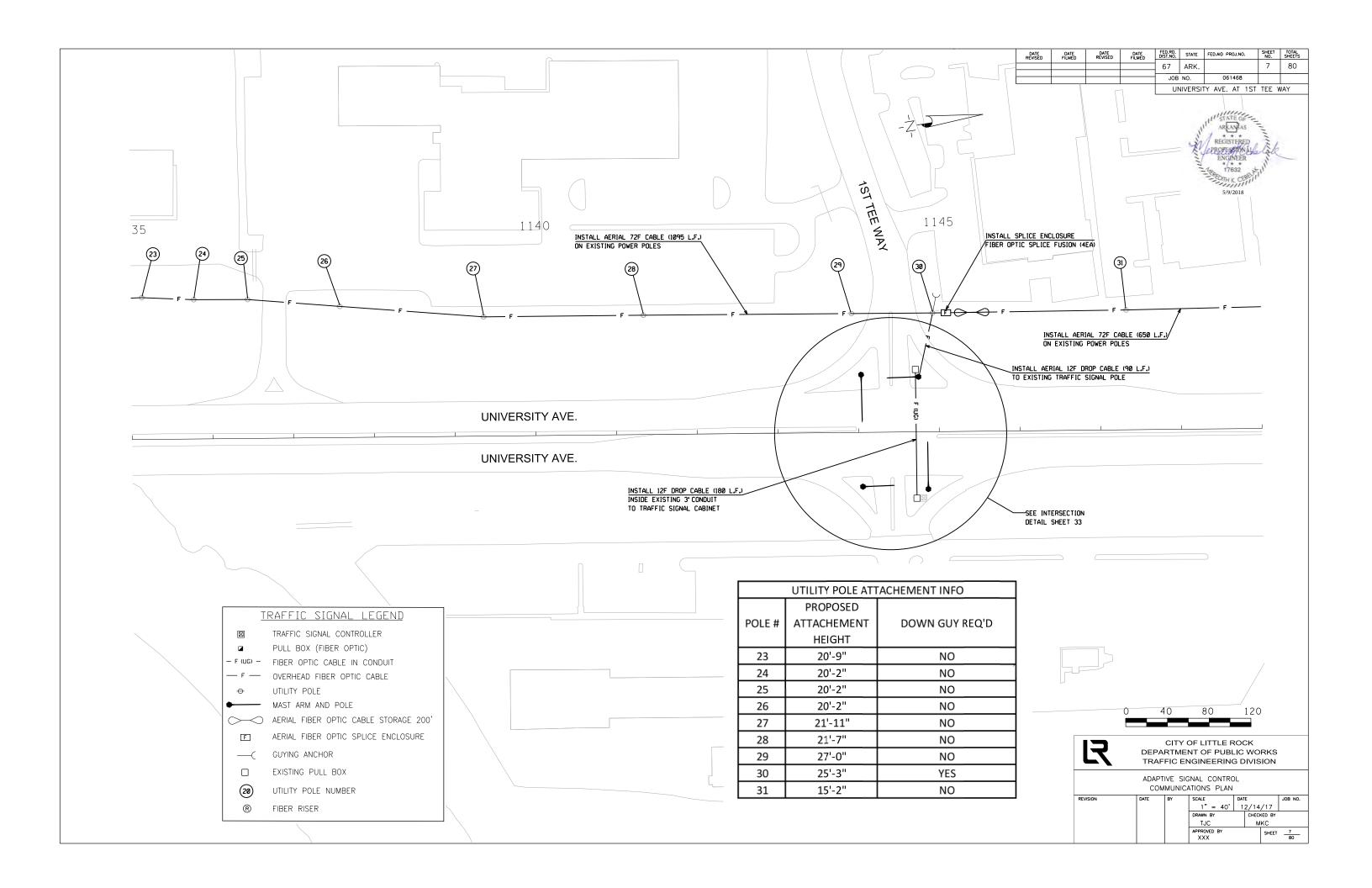
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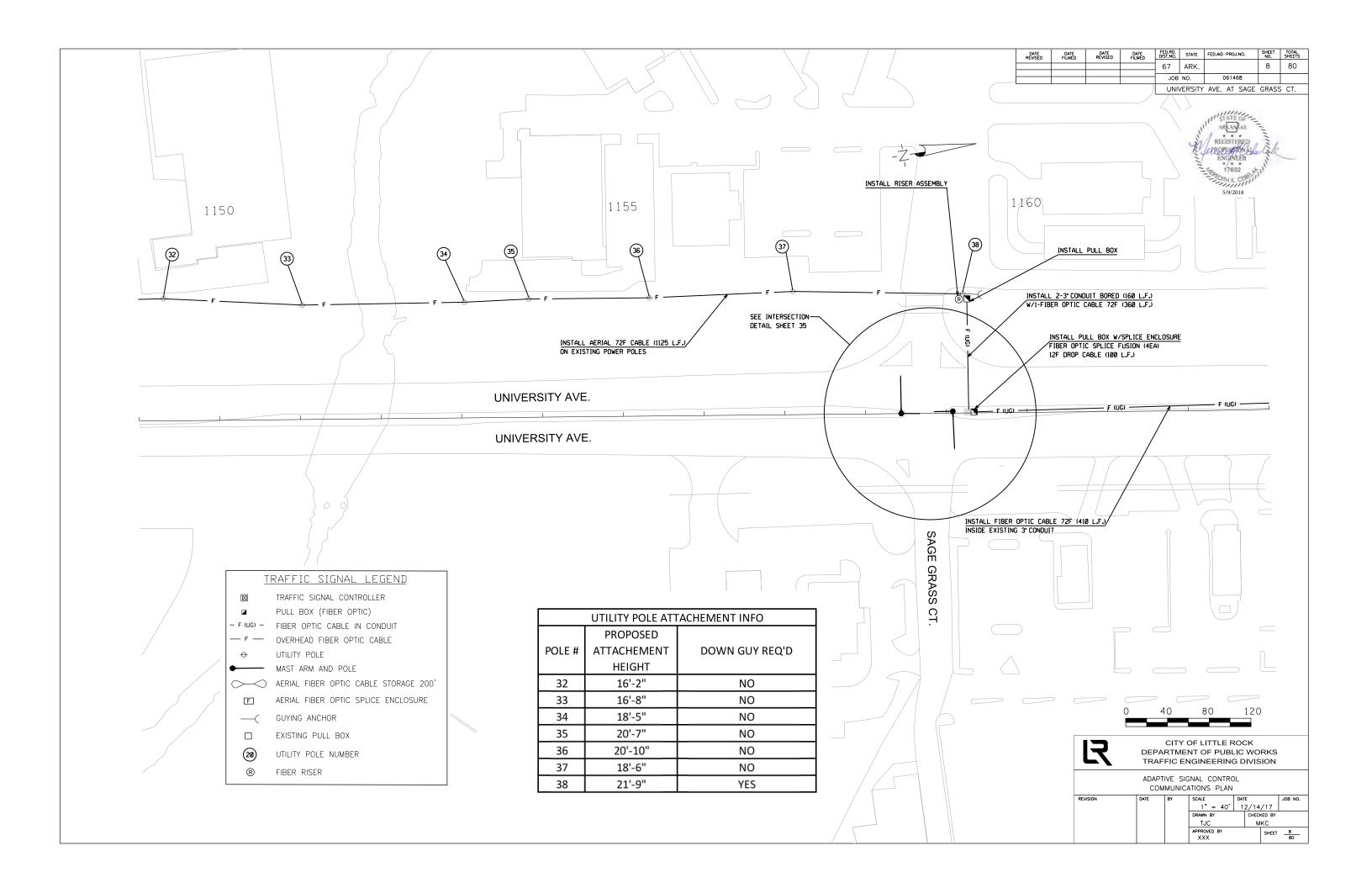
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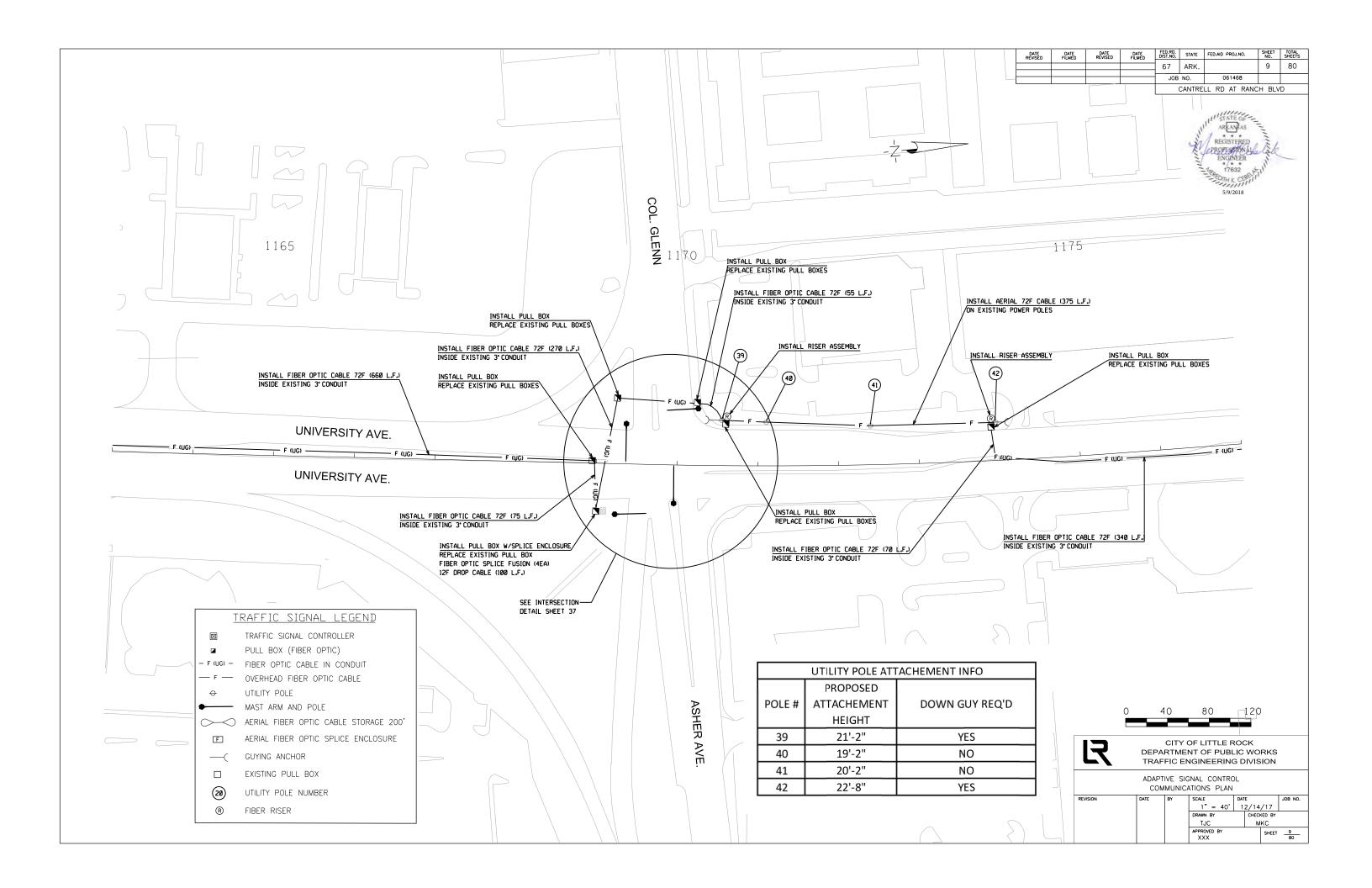


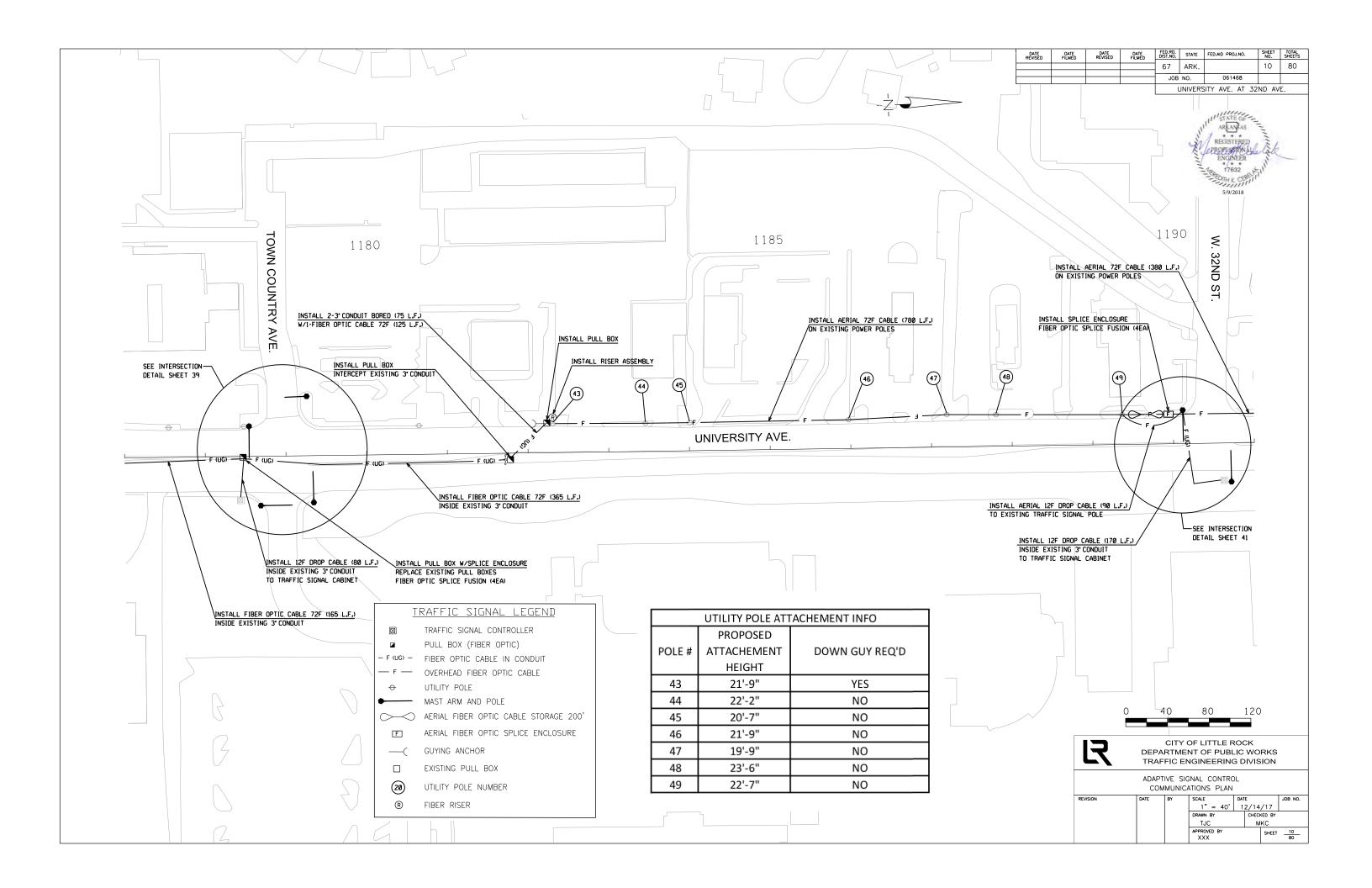


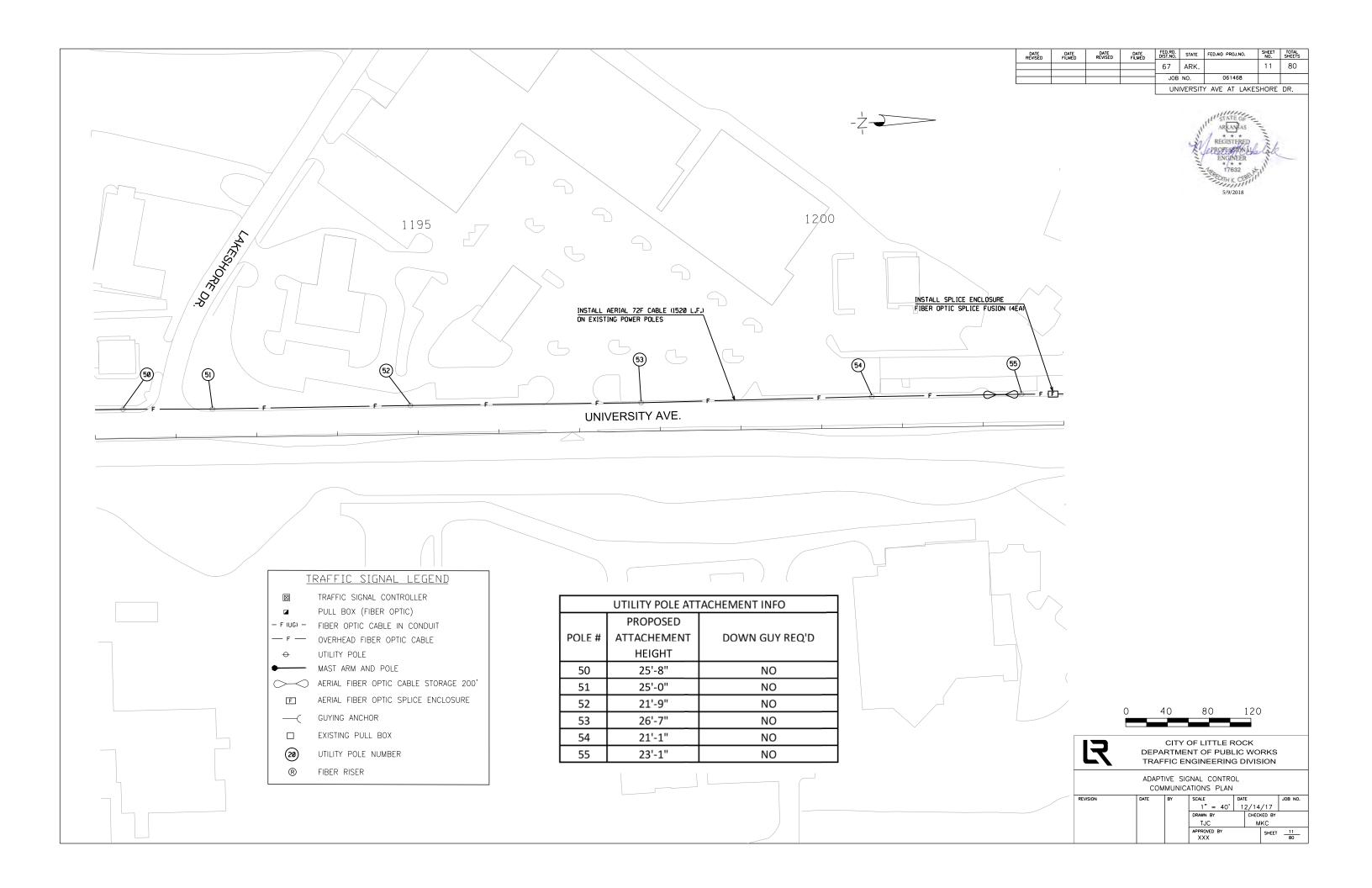


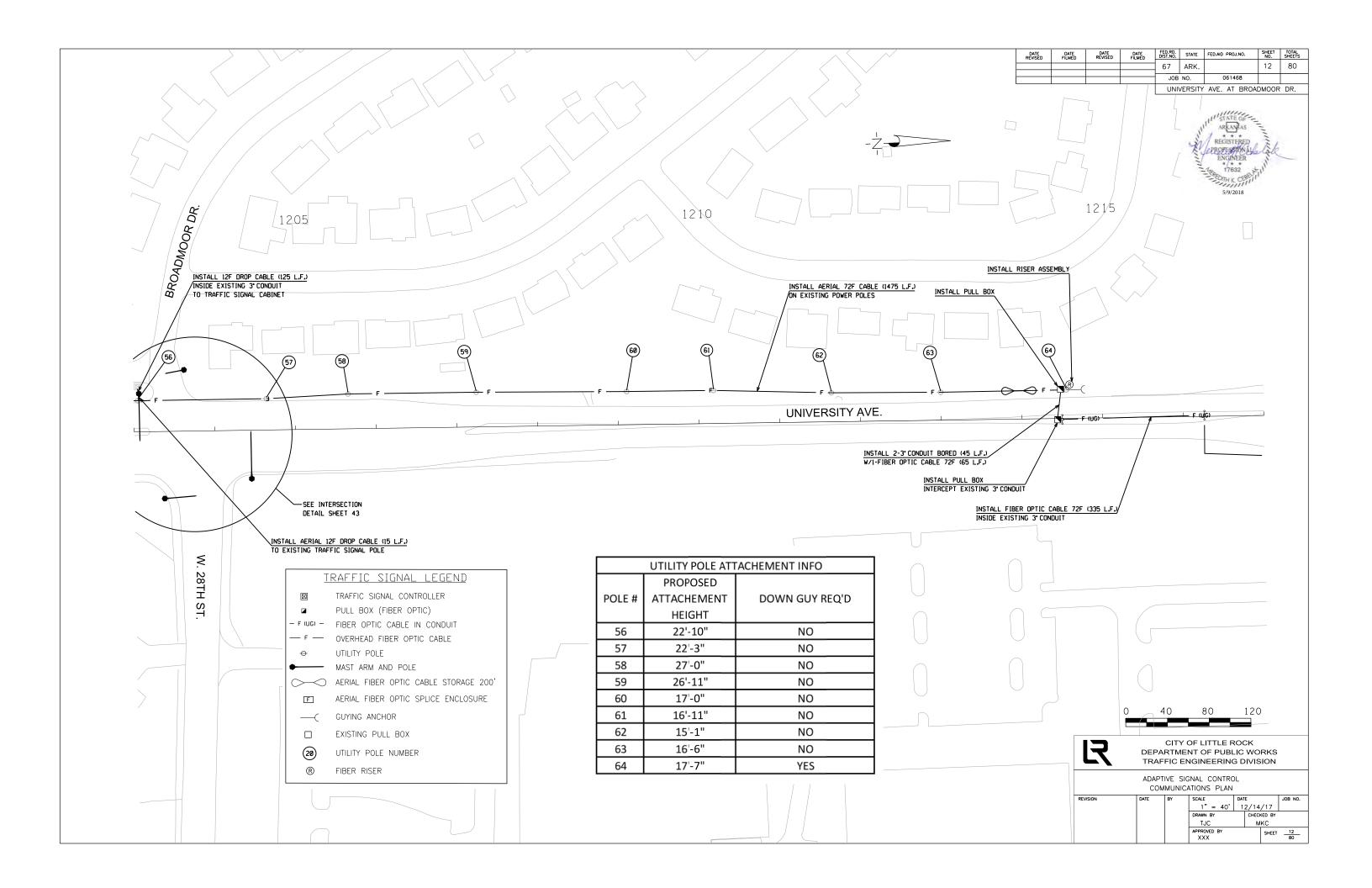


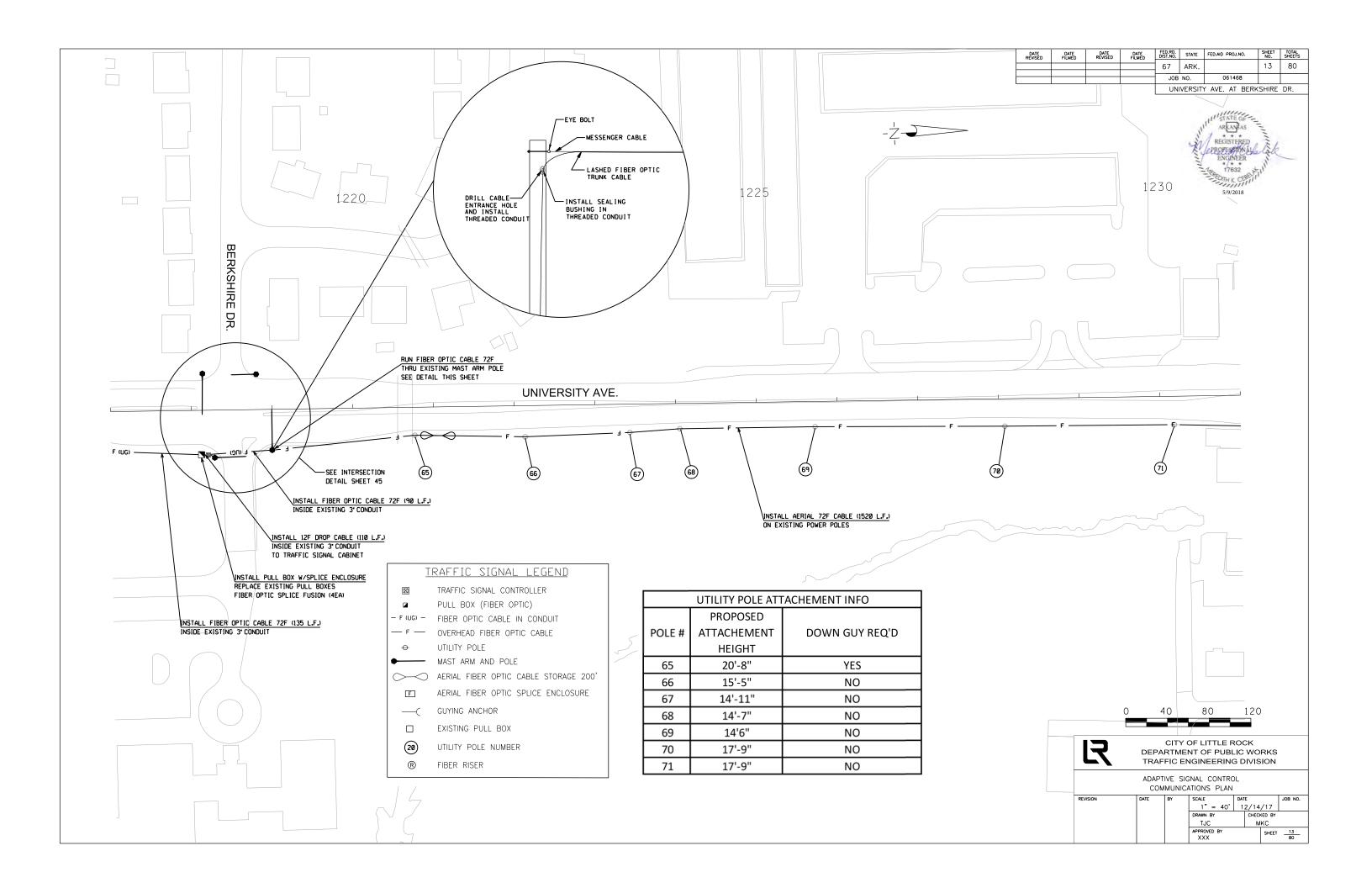


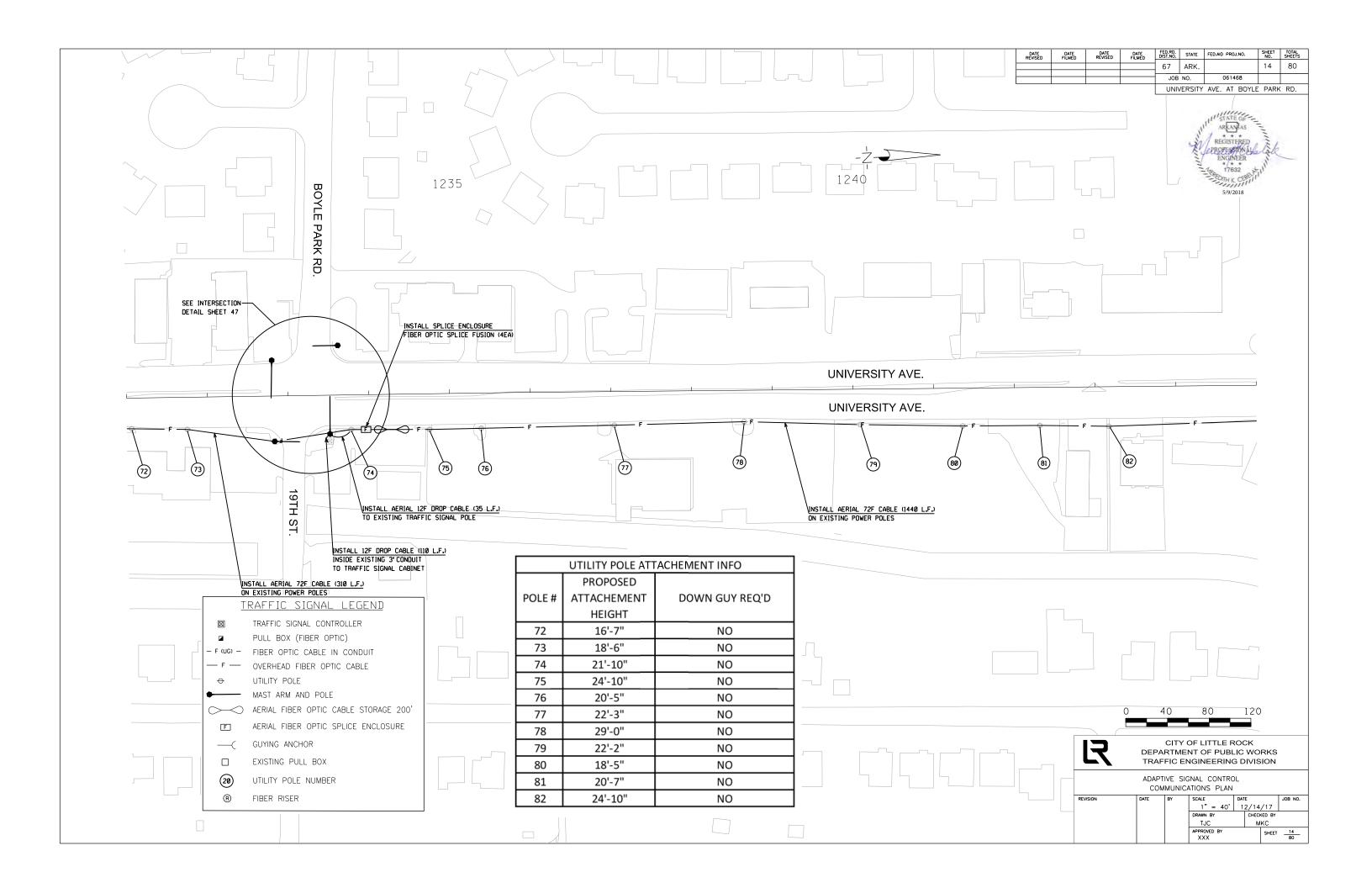


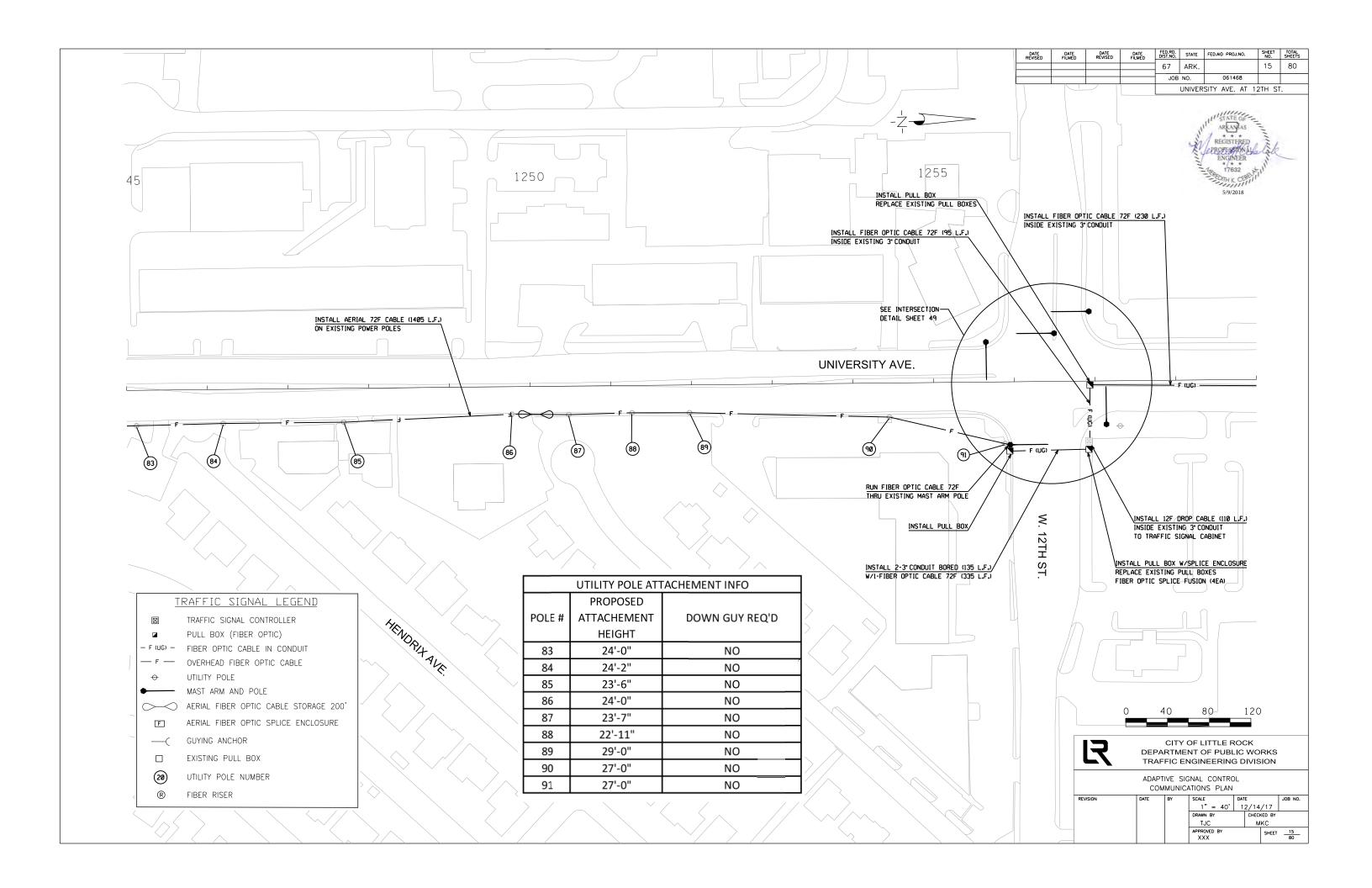


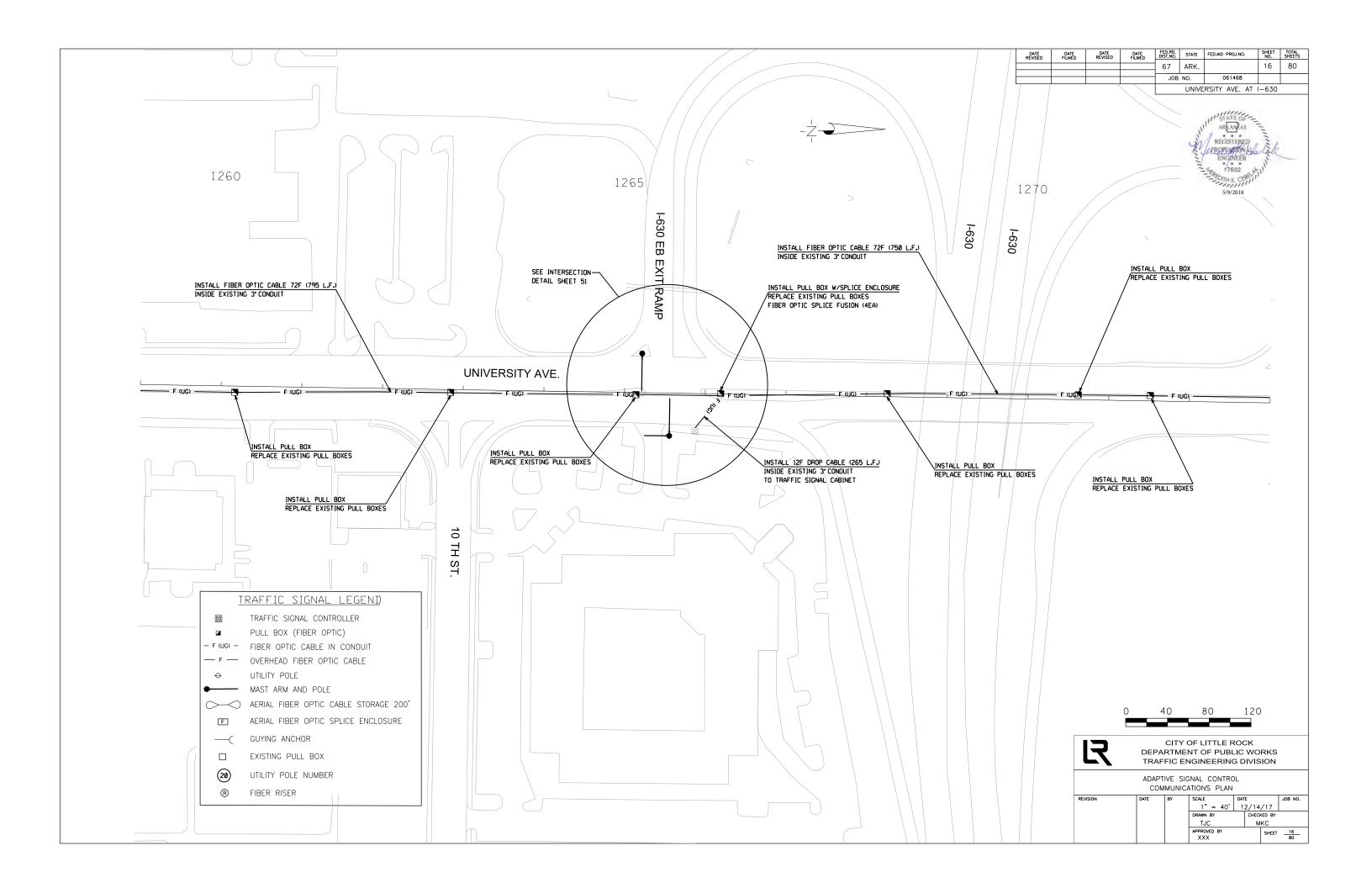


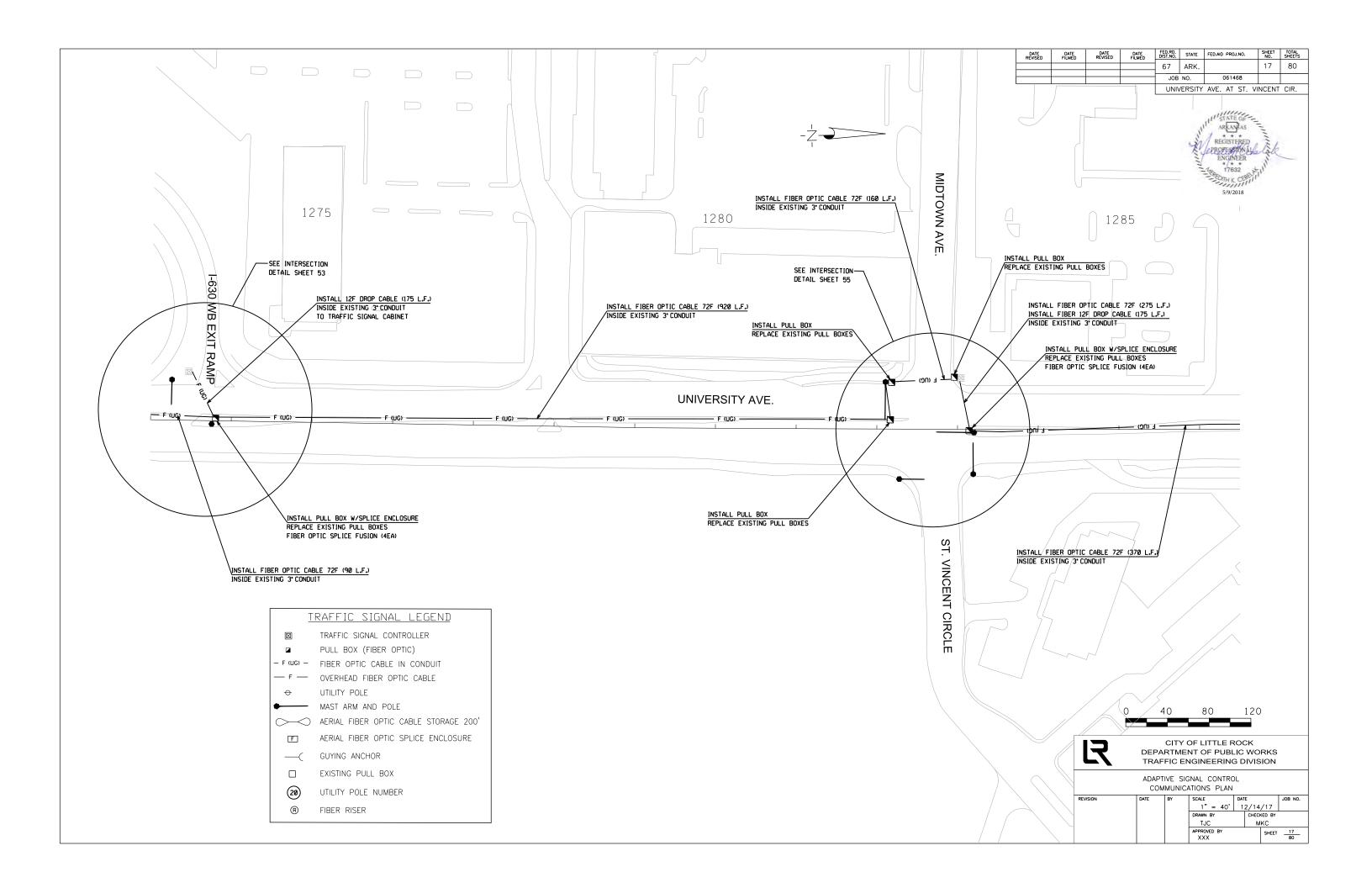


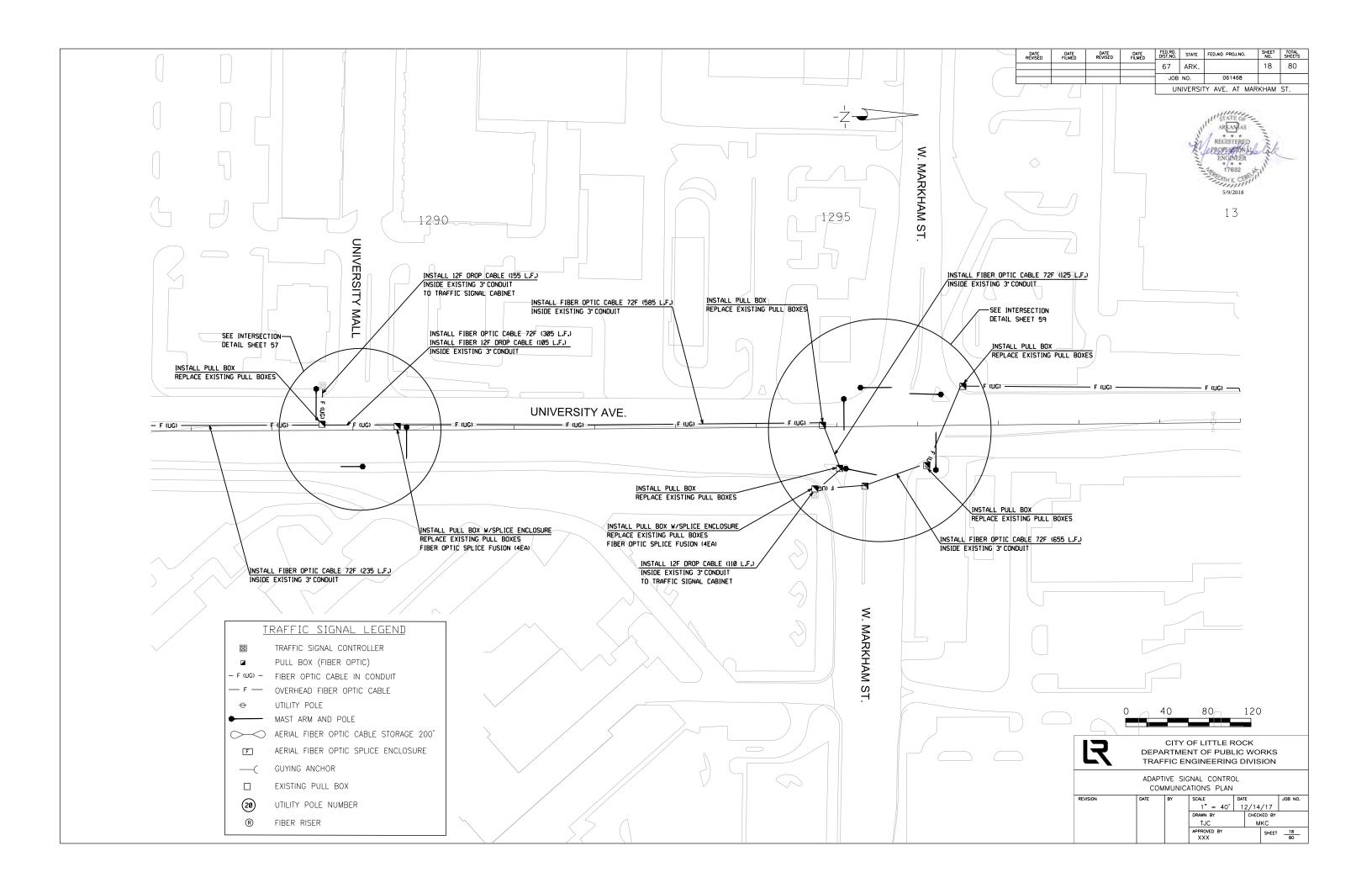


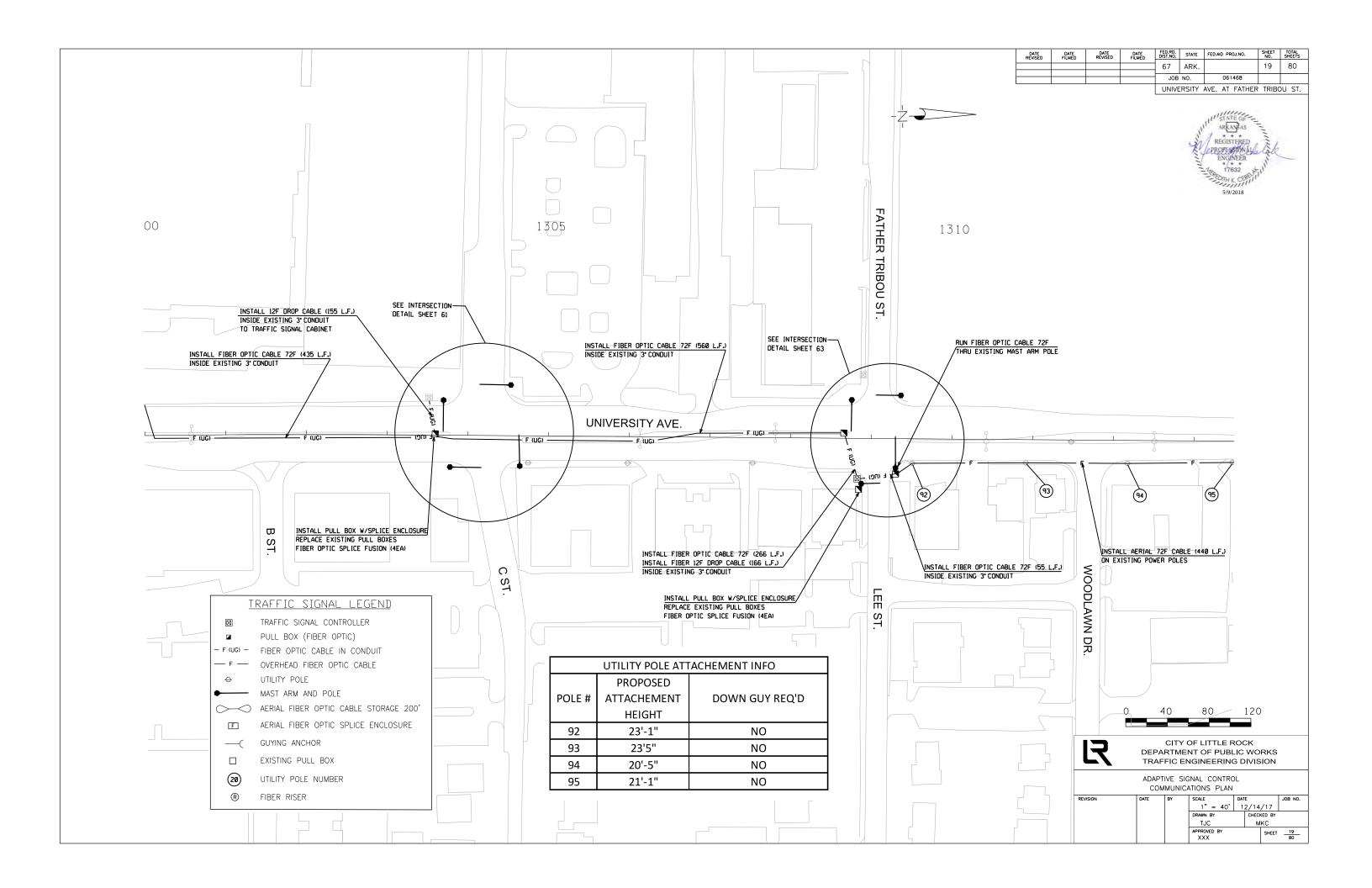


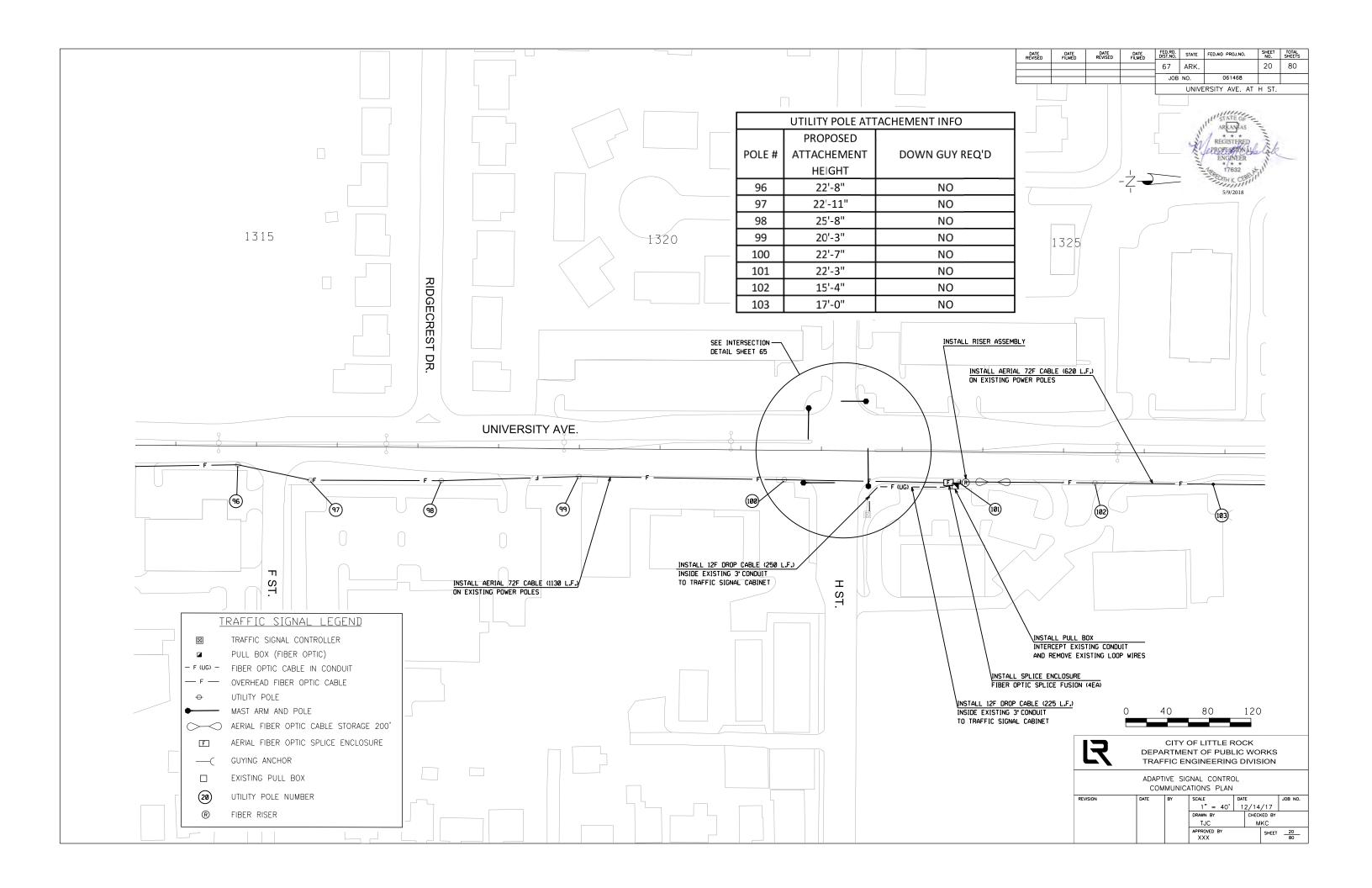


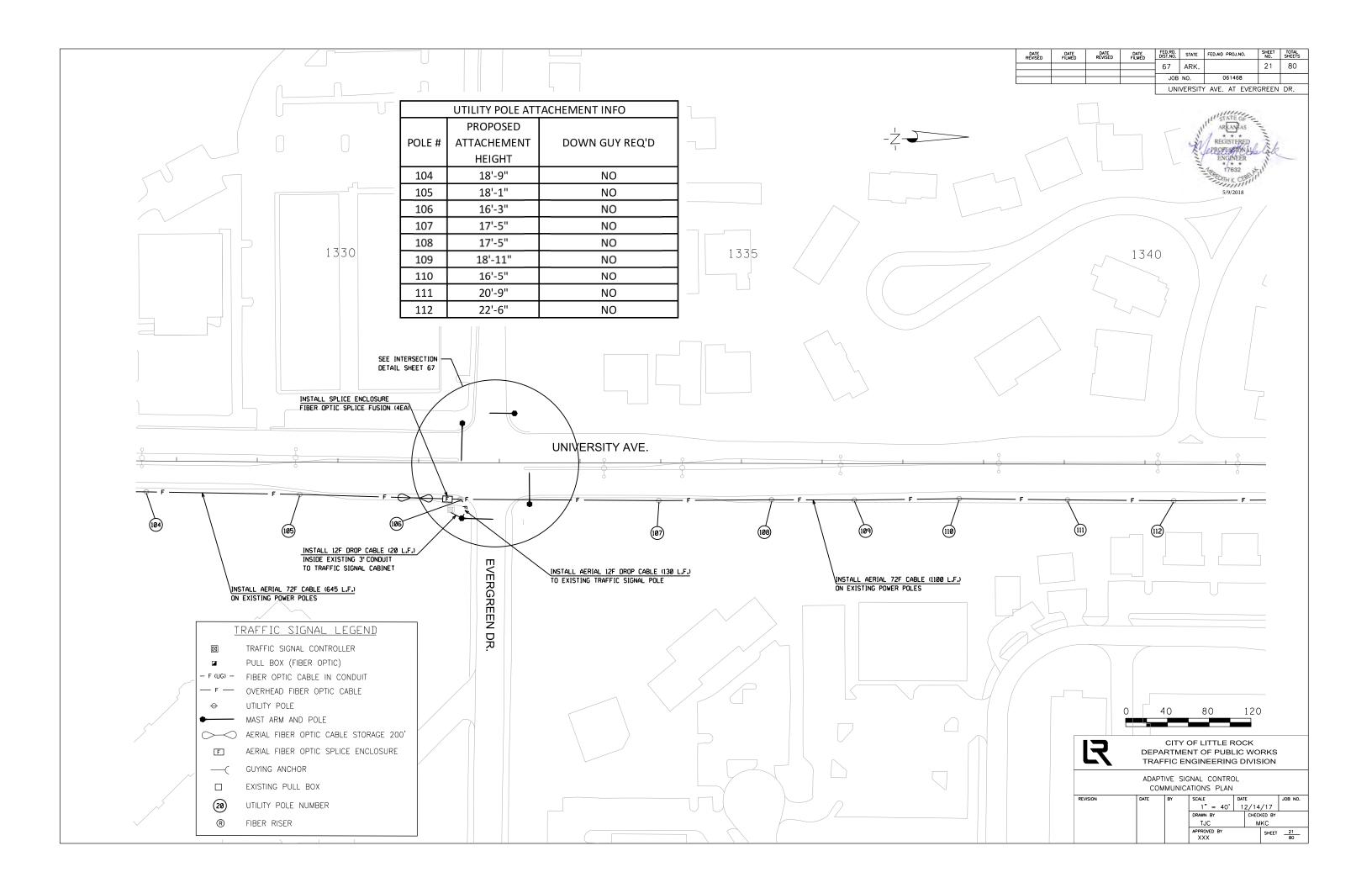


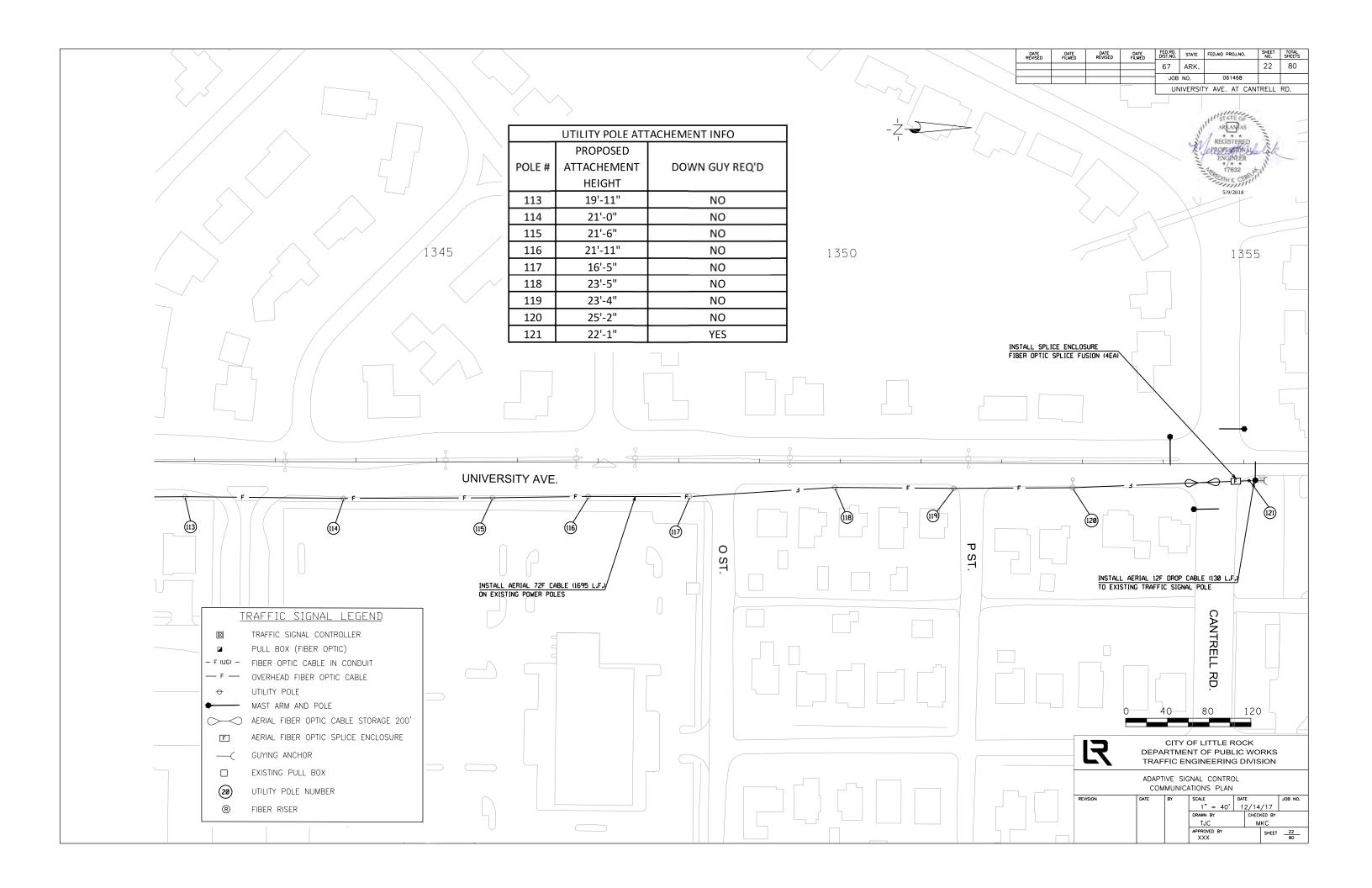


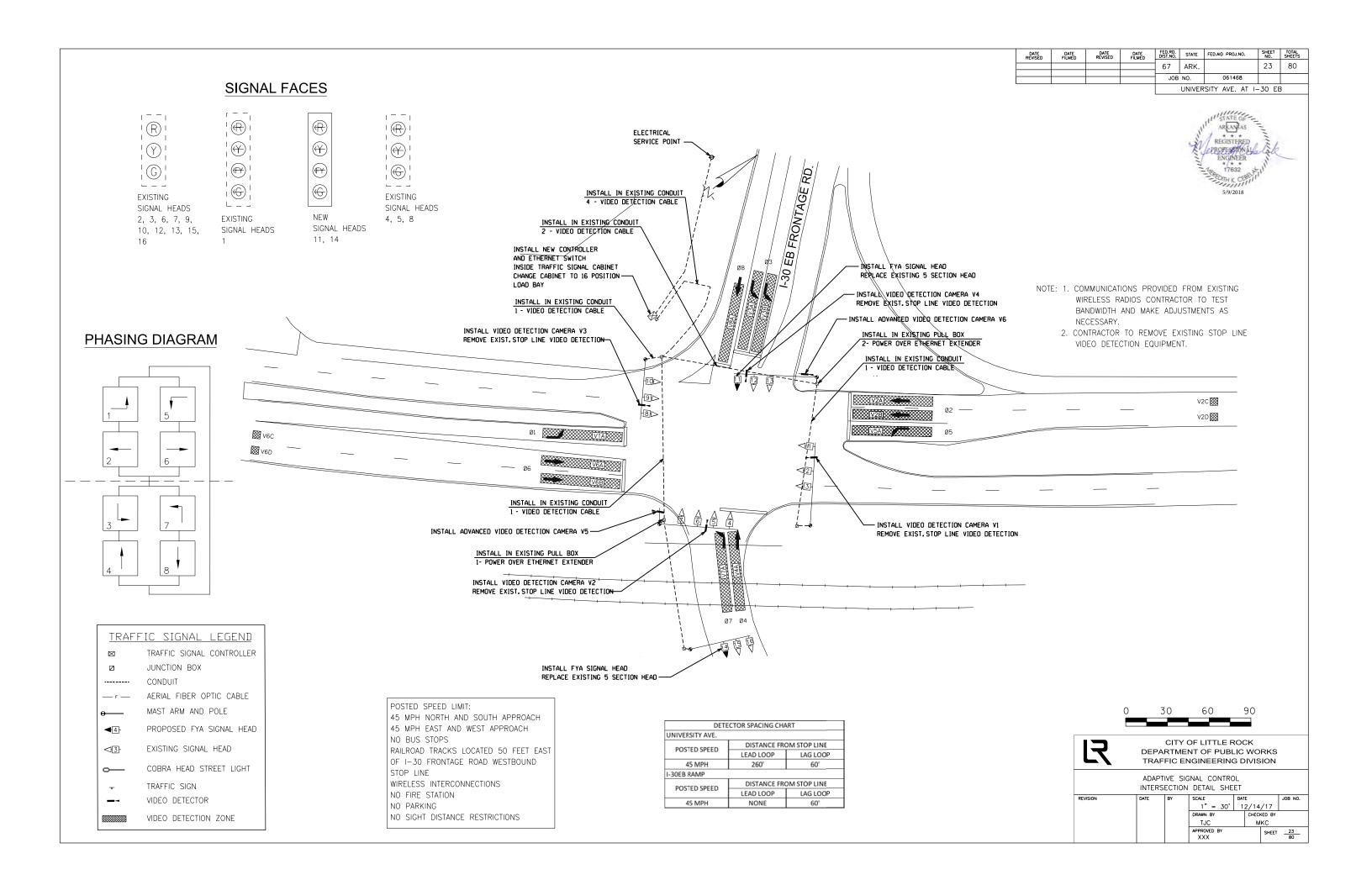












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				JOB	NO.	061468				
		•		UNIVERSITY AVE. AT 1-30 EB						

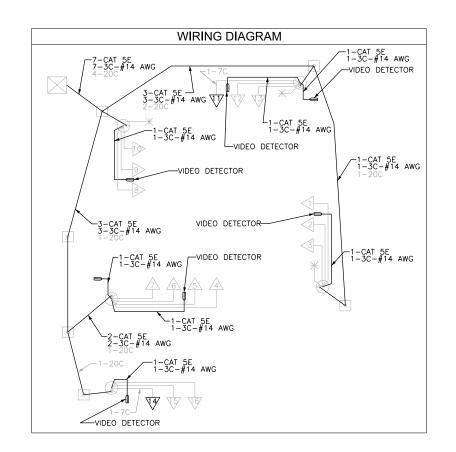
				ETECTO	OR SYST	TEM DESCI	RIPTION				_
				_		INPUTS		RAM ASS	IGNMENTS		
PULASK	(I COUNTY - UNIVERSITY A	VE. /I-30 EI	B RAMP	B	Y SUPP	LIER	LOCAL		MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V1	23"
V2A	SB THRU LANES	COMB.	2		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	COMB.	3		6	V10	2	2		CAMERA V3	23"
V2C	SB ADV.	LOCAL	4		5	V2(D1)	2			CAMERA V6	23"
V2D	SB ADV.	LOCAL	5		5	V2(D2)	2			CAMERA V6	23"
V3A	EB LEFT TURN	LOCAL	6		10	V3	3			CAMERA V2	23"
V3B	EB LEFT TURN	LOCAL	7		10	V3	3			CAMERA V2	23"
V4A	WB THRU LANE	COMB.	8		14	V12	4	4		CAMERA V4	23"
V7A	WB LEFT TURN	LOCAL	9		16	V7	7			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	10		8	V5	5			CAMERA V3	23"
V6A	NB THRU LANE	COMB.	11		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	COMB.	12		4	V14	6	6		CAMERA V1	23"
V6C	NB ADV.	LOCAL	13		3	V6(D3)	6			CAMERA V5	23"
V6D	NB ADV.	LOCAL	14		3	V6(D4)	6			CAMERA V5	23"
V8A	EB THRU LANE	COMB.	15		12	V16	8	8		CAMERA V2	23"

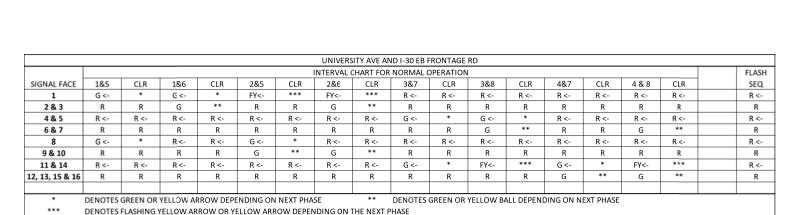
D = System or Auxiliary input

P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rythm Engineering.

SPARE: 1, 7, 9, 11, 13, 15







CITY OF LITTLE ROCK
DEPARTMENT OF PUBLIC WORKS
TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL
INTERSECTION DETAIL SHEET

REVISION

DATE

BY

SCALE
N.T.S.

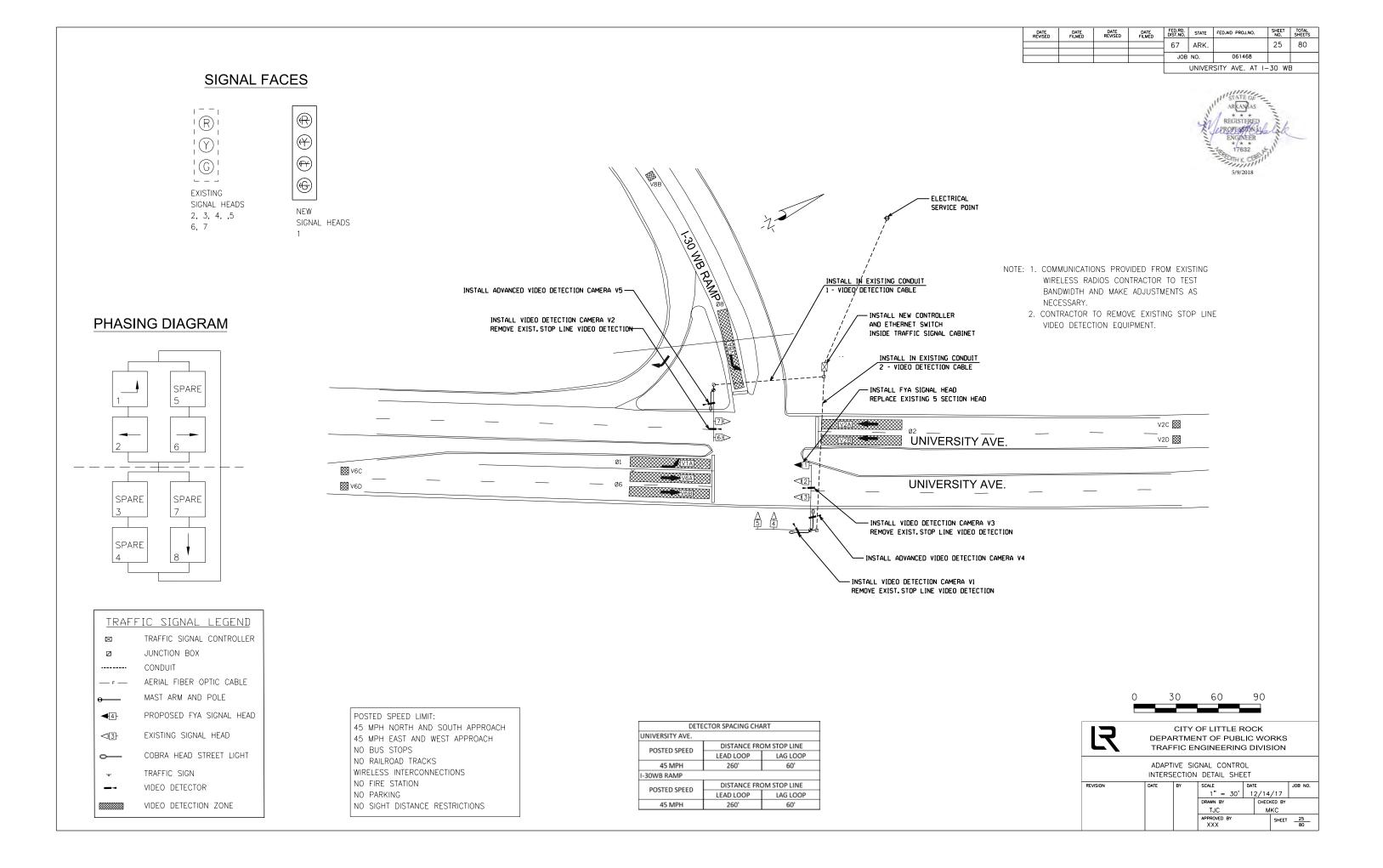
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DRAWN BY
CHECKED BY
TJC

APPROVED BY
XXX

SHEET

24
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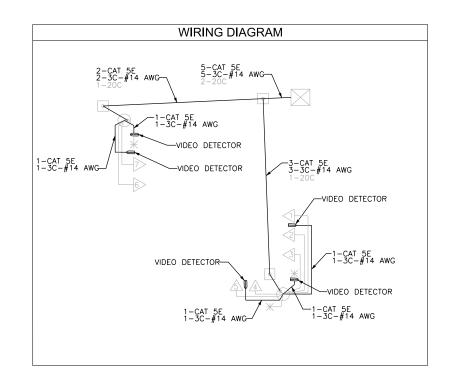
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				67	ARK.		26	80		
				JOB	NO.	061468				
				UNIVERSITY AVE. AT 1-30 WB						

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	5/9/2018	

			D	ETECT	OR SYST	EM DESCR	IPTION				
				HARD	WARE I	NPUTS BY	PROG	RAM ASS	IGNMENTS		
PULASK	I COUNTY - UNIVERSITY A	VE. /I-30 W	B RAMP	SUPPLIER			LOCAL		MASTER		TUBE
DET. ID#				CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V3	23"
V2A	SB THRU LANES	сомв.	2		6	V10	2	2		CAMERA V2	23"
V2B	SB THRU LANES	сомв.	3		6	V10	2	2		CAMERA V2	23"
V2C	SB ADV.	LOCAL	4		5	V2(D1)	2			CAMERA V4	23"
V2D	SB ADV.	LOCAL	5		5	V2(D2)	2			CAMERA V4	23"
V6A	NB THRU LANE	сомв.	6		4	V14	6	6		CAMERA V3	23"
V6B	NB THRU LANE	сомв.	7		4	V14	6	6		CAMERA V3	23"
V6C	NB ADV.	LOCAL	8		3	V3(D3)	6			CAMERA V5	23"
V6D	NB ADV.	LOCAL	9		3	V3(D4)	6			CAMERA V5	23"
V8A	EB LEFT TURN	LOCAL	10		12	V6	8	8		CAMERA V1	23"
V8A	/8A EB ADV. LOCAL 10				11	V8	8			CAMERA V1	23"
V = Vehicle	e input		SPAR	E: 1, 7-10,	13-16			•			

D = System or Auxiliary input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



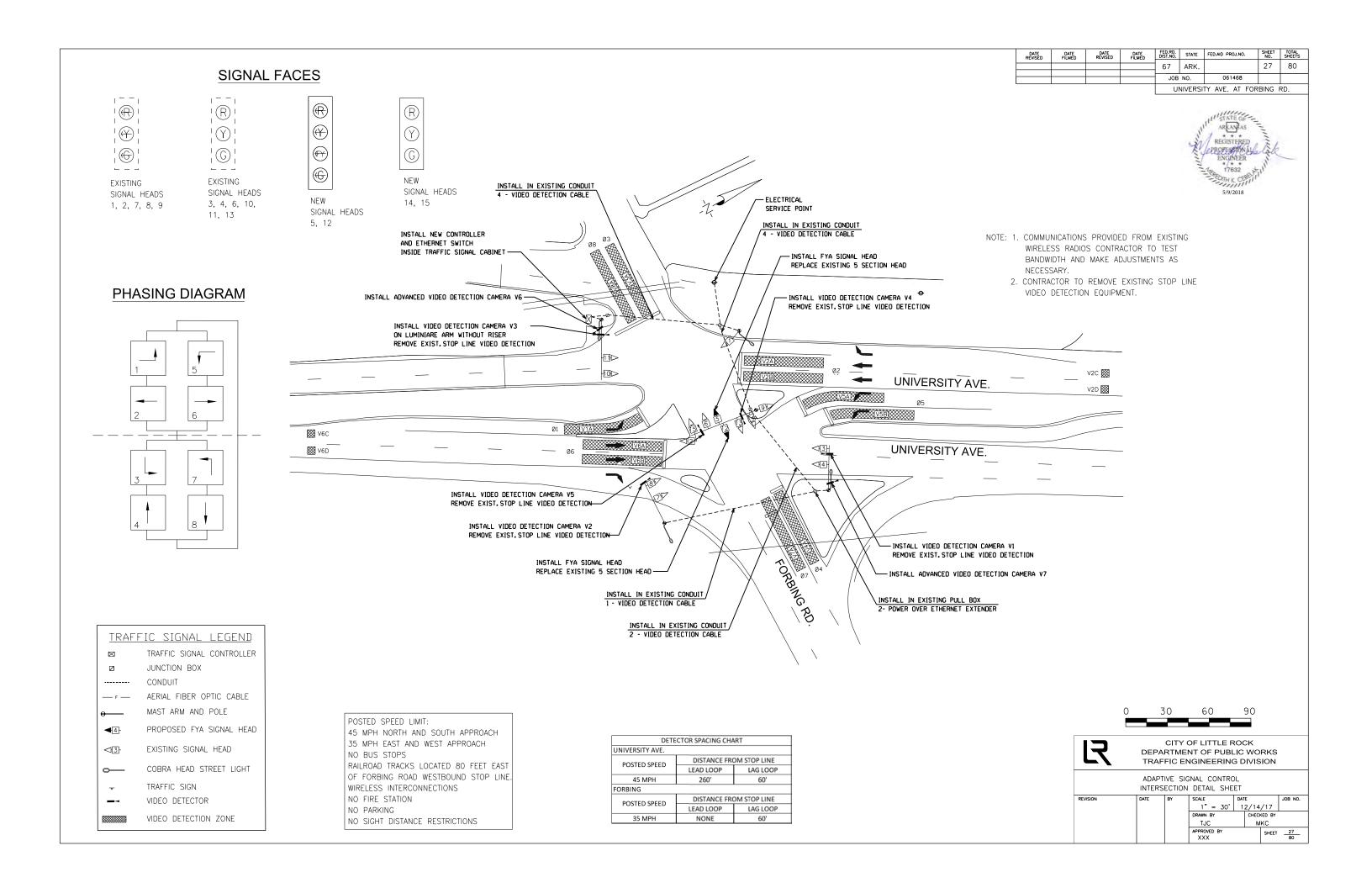
	UNIVERSITY AVE AND I-30 WB RAMP												
SIGNAL		NTERVAL	. CHART FOR	NORMAL O	PERATION								
FACE	1 & 6	CLR	2 & 6	CLR	8	CLR		FLASH SEQ					
1	G <-	***	FY<-	R <-		R <-							
2 & 3	G	**	R		R								
4 & 5	R	R	R	R	G	**		R					
6 & 7	R	R	G	R		R							

- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- ** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
 *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE

CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE	DATE		JOB NO.
			N.T.S.	12/1	4/17	
			DRAWN BY	CHI	CKED BY	
			TJC		MKC	
			APPROVED BY		SHEET	26
			XXX		1	80



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
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				JOB NO.		061468			
				UNIVERSITY AVE. AT FORBING RD.					



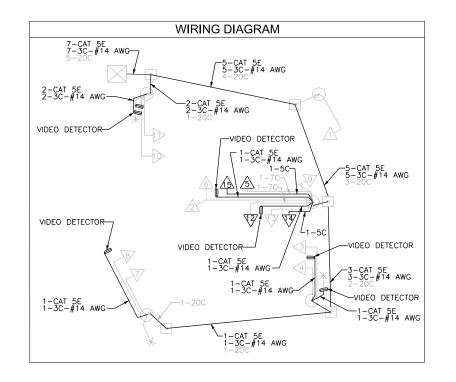
			DE	TECTO	R SYST	EM DESCI	RIPTION				
				HARD	WARE	INPUTS	PROG	RAM ASS	IGNMENTS		
PULA	SKI COUNTY - UNIVERSITY	AVE. /FOR	BING	В	Y SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION			CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1	2 V1 1				CAMERA V1	23"		
V2A	SB THRU LANES	COMB.	2		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	COMB.	3	6 V10			2	2		CAMERA V3	23"
V2C	SB ADV.	LOCAL	4		5	V2(D1)				CAMERA V7	23"
V2D	SB ADV.	LOCAL	5		5	V2(D2)	2			CAMERA V7	23"
V3A	EB LEFT TURN	LOCAL	6		10	V3	3			CAMERA V5	23"
V4A	WB THRU LANE	COMB.	7		14	V12	4	4		CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	8		8	V5	5			CAMERA V2	23"
V5B	SB LEFT TURN	LOCAL	9		8	V5	5			CAMERA V2	23"
V6A	NB THRU LANE	COMB.	10		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	COMB.	11		4	V14	6	6		CAMERA V1	23"
V6C	NB ADV.	LOCAL	12		3	V6(D3)	6			CAMERA V5	23"
V6D	NB ADV.	LOCAL	13		3	V6(D4)	6			CAMERA V5	23"
V7A	WB LEFT TURN	LOCAL	14		16	V7	7			CAMERA V4	23"
V8A	EB THRU LANE	COMB.	15		12	V16	8	8		CAMERA V5	23"

D = System or Auxiliary input

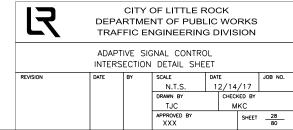
P = Pedestrian input

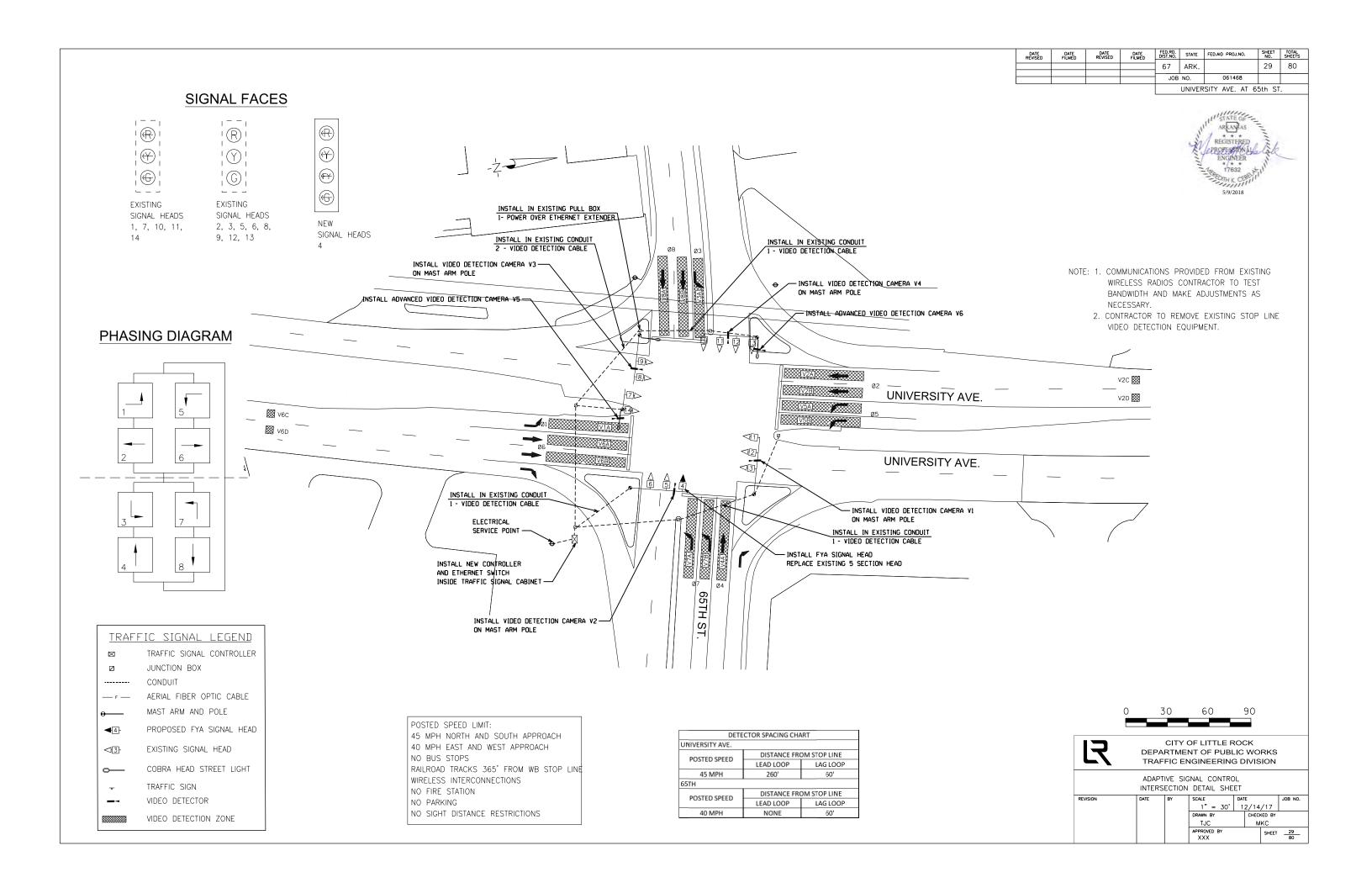
Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.

SPARE: 1, 7, 9, 11, 13, 15



UNIVERSITY AVE AND FORBING RD																		
CICNIAI																		FLACIL
SIGNAL							INTERVAL	HART FOR	NORMAL	PERAIION	l .							FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR		SEQ
1 & 2	G <-	*	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-		R <-
3 & 4	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R		R
5 R<- R<- R<- R<- R<- R<- R<- R<- G<- * FY<- *** FY<- ***														***		R <-		
6 & 15														**		R		
7,8&9														R <-		R <-		
10 & 11	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R		R
12	R <-	R <-	G <-	*	FY<-	***	G <-	*	FY<-	***		R <-						
13 & 14	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**		R
* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE													,					
*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE																		





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		30	80		
				JOB NO.		061468				
		•		UNIVERSITY AVE. AT 65th ST.						

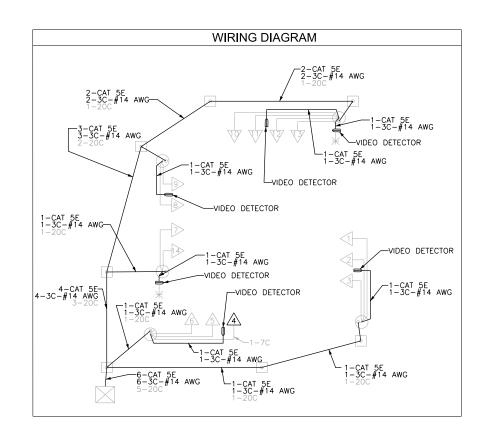


			D	ETECTO	R SYST	EM DESCI	RIPTION				
				HARE	OWARE	INPUTS	PROG	RAM ASS	IGNMENTS		T
PU	LASKI COUNTY - UNIVERSI	TY AVE. /65	TH	В	Y SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V1	23"
V2A	SB THRU LANES	сомв.	2		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	сомв.	3		6	V10	2	2		CAMERA V3	23"
V2C	SB ADV.	4		5	V2(D1)	2			CAMERA V6	23"	
V2D	SB ADV.	LOCAL	5		5	V2(D2)	2			CAMERA V6	23"
V3A	EB LEFT TURN	LOCAL	6		10	V3	3			CAMERA V2	23"
V4A	WB THRU LANE	COMB.	7		14	V12	4	4		CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	8		8	V5	5			CAMERA V3	23"
V5B	SB LEFT TURN	LOCAL	9		8	V5	5			CAMERA V3	23"
V6A	NB THRU LANE	сомв.	10		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	сомв.	11		4	V14	6	6		CAMERA V1	23"
V6C	NB ADV.	LOCAL	12		3	V6(D3)	6			CAMERA V5	23"
V6D	NB ADV.	LOCAL	13		3	V6(D4)	6			CAMERA V5	23"
V7A	WB LEFT TURN	LOCAL	14		16	V7	7			CAMERA V4	23"
V7B	WB LEFT TURN	LOCAL	15		16	V7	7			CAMERA V4	23"
V8A	EB THRU LANE	сомв.	16		12	V16	8	8		CAMERA V2	23"
V8B	EB THRU LANE	сомв.	16		12	V16	8	8		CAMERA V2	23"

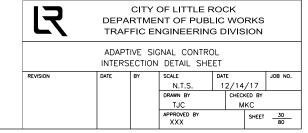
D = System or Auxiliary input

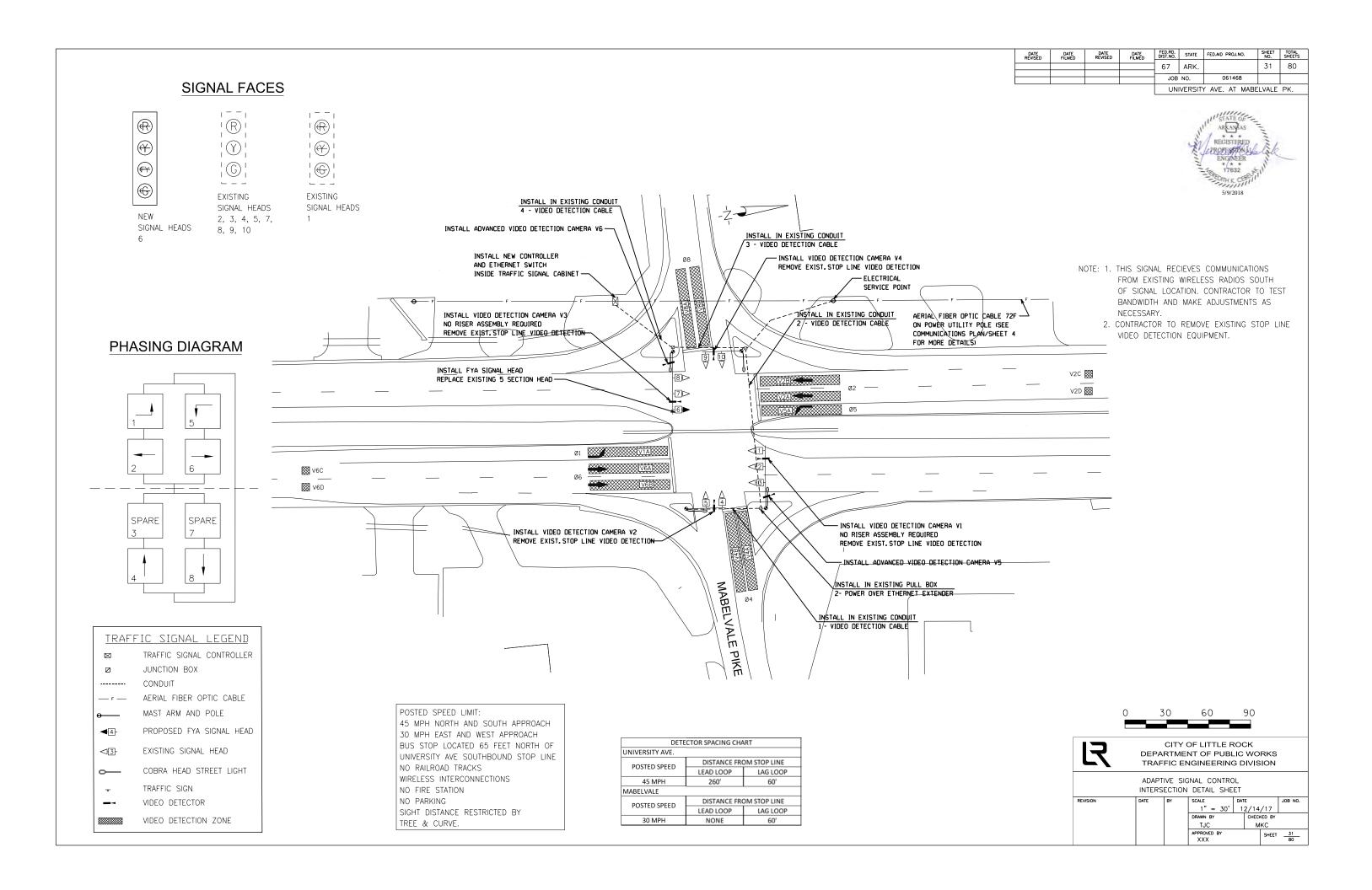
P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



SIGNAL		-					INTERVAL	CHART FOR	NORMAL (OPERATION							FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-
2 & 3														R	R		
4 R<-														***	R <-		
5&6 R R R R R R R R R G ** R R G **													**	R			
7 & 14	G <-	*	R <-	R <-	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-
8 & 9	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
10 & 11	R <-	R <-	G <-	*	R <-	R <-	G <-	*	R <-	R <-	R <-						
12 & 13	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE																	





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		32	80
				JOB NO.		061468		

UNIVERSITY AVE. AT MABELVALE PK.

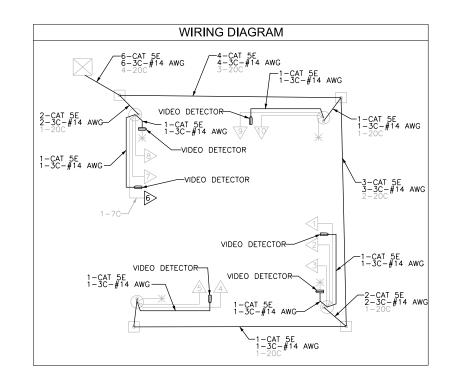


			DE	TECTO	R SYST	EM DESCI	RIPTION				
						INPUTS			IGNMENTS		
PULAS	KI COUNTY - UNIVERSITY	AVE. /MABI	LVALE	В	Y SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V1	23"
V2A	SB THRU LANES	COMB.	2		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	3		6	V10	2	2		CAMERA V3	23"	
V2C	SB ADV.	LOCAL			V2(D1)	2			CAMERA V5	23"	
V2D	SB ADV.	LOCAL	5		5	V2(D2)	' - - - - - - - - - 			CAMERA V5	23"
V4A	WB THRU LANE	COMB.	6		14	V12	4	4		CAMERA V4	23"
V4B	WB THRU LANE	COMB.	7		14	V12	4	4		CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	8		8	V5	5			CAMERA V3	23"
V6A	NB THRU LANE	COMB.	9		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	COMB.	10		4	V14	6	6		CAMERA V1	23"
V6C	NB ADV.	LOCAL	11		3	V6(D3)	6			CAMERA V6	23"
V6D	NB ADV.	LOCAL	12		3	V6(D4)	6			CAMERA V6	23"
V8A	EB THRU LANE	COMB.	13		12	V16	8			CAMERA V2	23"
V8B	V8B EB THRU TURN COMB. 14				12	V16	8			CAMERA V2	23"
V = Vehicle	input		SP	ARE: 1,	7, 9 - 11,	13, 15 - 1	6				

D = System or Auxiliary input

P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.

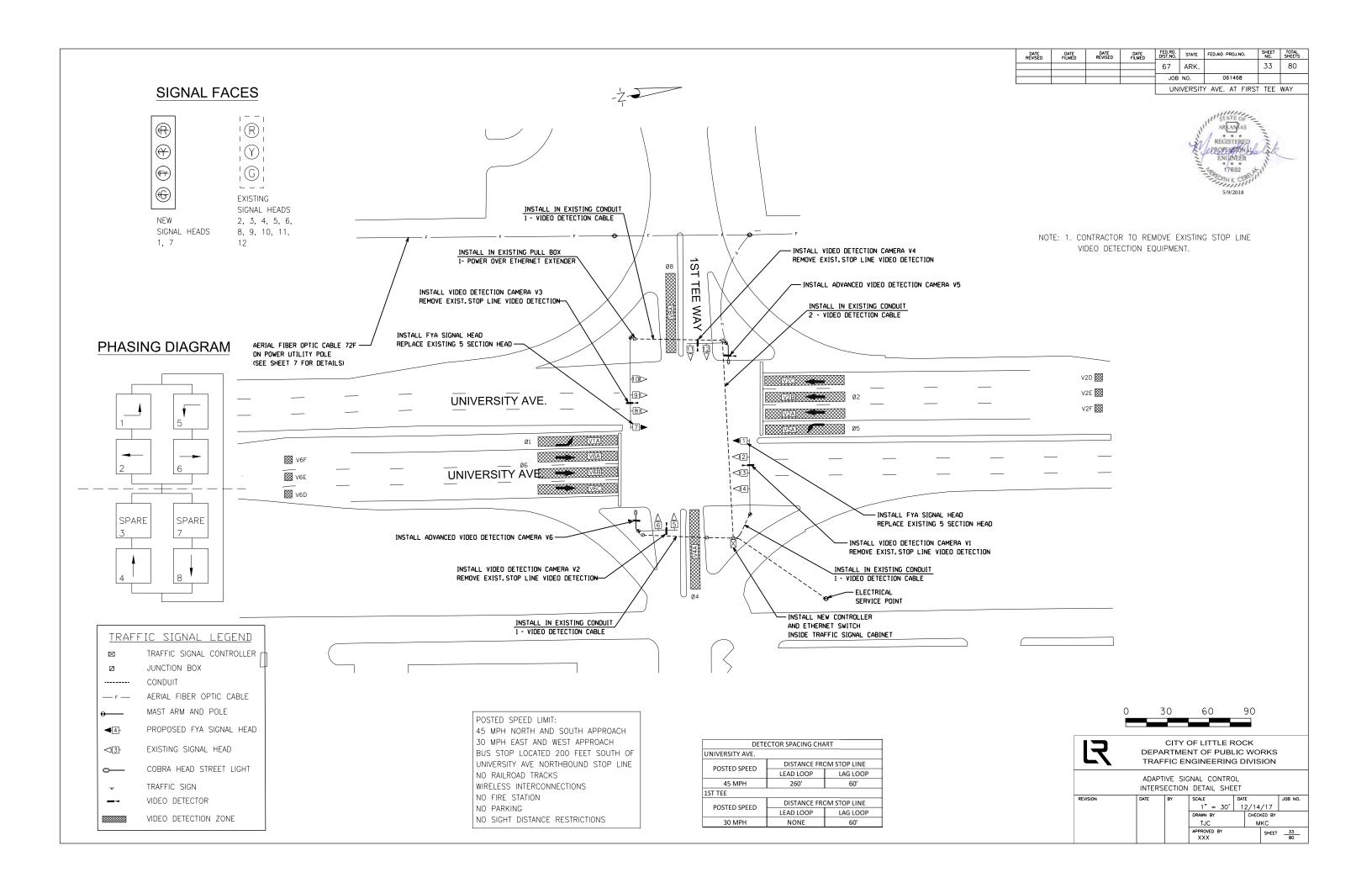


	UNIVERSITY AVE AND MABELVALE PK												
SIGNAL				INTERVAL	CHART FOR	NORMAL (OPERATION					FLASH	
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	4 & 8	CLR		SEQ	
1	G <-	*	R <-		R <-								
2 & 3	R	R	G	**	R	R	G	**	R	R		R	
4 & 5	R											R	
6	G <-	*	FY<-	***	G <-	*	FY<-	***	R <-	R <-		R <-	
7 & 8	R	R	R	R	G	**	G	**	R	R		R	
9 & 10	R	R	R	R	R	R	R	R	G	**		R	

- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- ** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE

 *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE

LR	DEPA	RTME	OF LITTLE F NT OF PUBL IGINEERING	-IC	wo		
			NAL CONTRO	_			
REVISION	DATE	BY	SCALE	DAT	E		JOB N
			N.T.S.	1:	2/14	/17	
	DRAWN BY CHECKED BY						
			TJC		М	KC	
			APPROVED BY XXX			SHEET	32 80



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		34	80
				JOB	NO.	061468		
					IVERSIT`	Y AVE. AT FIRST	TEE	WAY

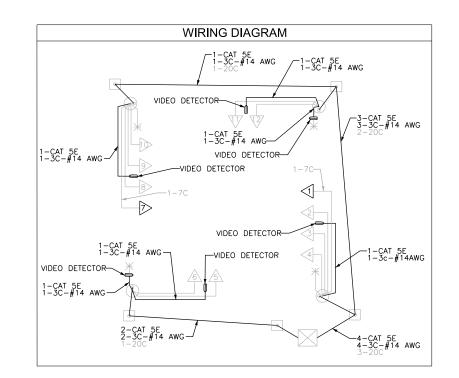


			DI	ETECTO	R SYST	EM DESCE	RIPTION				
		HARDWARE INPUTS		PROGRAM ASSIGNMENTS							
PULASKI COUNTY - UNIVERSITY AVE. /1ST TEE					BY SUPPLIER		LOCAL		MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V1	23"
V2A	SB THRU LANES	COMB.	2		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	COMB.	3		6	V10	2	2		CAMERA V3	23"
V2C	SB THRU LANES	COMB.	4		6	V10	2	2		CAMERA V3	23"
V2D	SB ADV.	LOCAL	5		5	V2(D1)	2			CAMERA V5	23"
V2E	SB ADV.	LOCAL	6		5	V2(D2	2			CAMERA V5	23"
V2F	SB ADV.	LOCAL	7		5	V2(D3)	2			CAMERA V5	23"
V4A	WB THRU LANE	сомв.	8		14	V12	4	4		CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	9		8	V3	5			CAMERA V3	23"
V6A	NB THRU LANE	COMB.	10		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	COMB.	11		4	V14	6	6		CAMERA V1	23"
V6C	NB THRU LANE	сомв.	12		4	V14	6	6		CAMERA V1	23"
V6D	NB ADV.	LOCAL	13		3	V6(D4)	6			CAMERA V6	23"
V6E	NB ADV.	LOCAL	14		3	V6(D5)	6			CAMERA V6	23"
V6F	NB ADV.	LOCAL	15		3	V6(D6)	6			CAMERA V6	23"
V8A	EB THRU LANE	сомв.	16		12	V16	8			CAMERA V2	23"
v = Vehicle	input			SP	ARE: 1,	7, 9 - 11, 1	13, 15 - 1	6			

V = Vehicle input D = System or Auxiliary input

P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



UNIVERSITY AVE AND FIRST TEE WAY											
SIGNAL	SIGNAL INTERVAL CHART FOR NORMAL OPERATION										FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	FY<-	***	FY<-	***	R <-	R <-	R <-
2,3&4	R	R	G	**	R	R	G	**	R	R	R
5 & 6	R	R	R	R	R	R	R	R	G	**	R
7	G <-	*	FY<-	***	G <-	*	FY<-	***	R <-	R <-	R <-
8,9 & 10	R	R	R	R	G	**	G	**	R	R	R
11 & 12	R	R	R	R	R	R	R	R	G	**	R

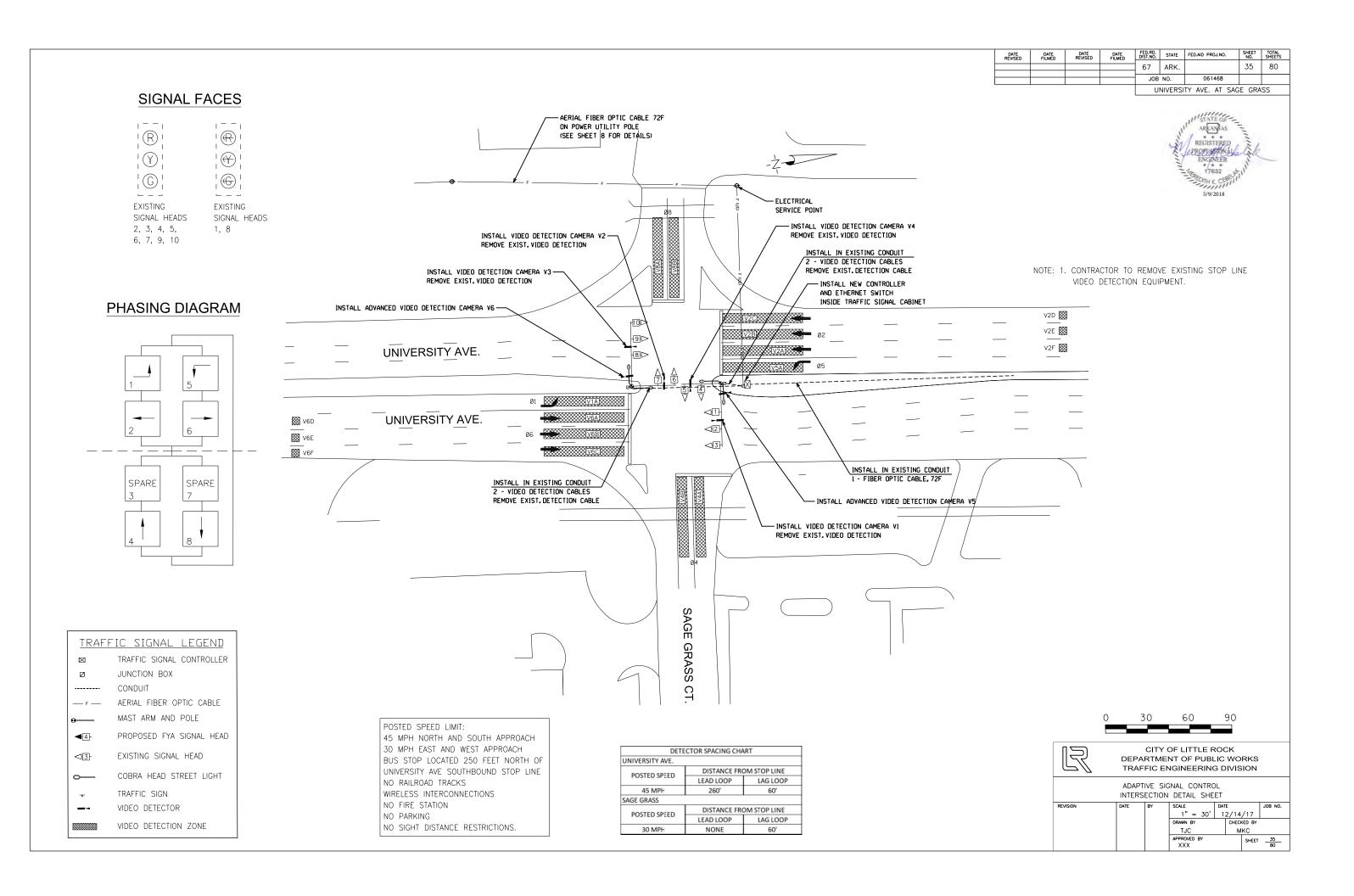
- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- ** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE



CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

			_		
DATE	BY	SCALE DATE			JOB NO.
		N.T.S.	12/14	/17	
		DRAWN BY	CHEC	KED BY	
		TJC	М	KC	
		APPROVED BY		SHEET	34
		XXX			80



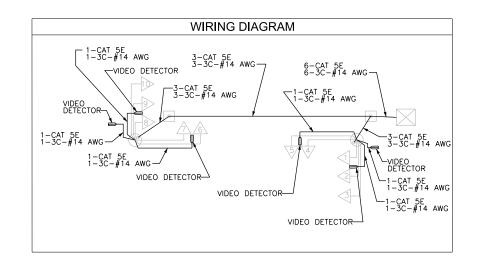
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		36	80
				JOB	NO.	061468		
				U	NIVERSI	TY AVE. AT SAG	E GRA	SS

			D	ETECTO	OR SYST	EM DESCE	RIPTION				
				HAR	DWARE	INPUTS	PROG	RAM ASS	IGNMENTS		
PULAS	KI COUNTY - UNIVERSITY	AVE. /SAGE	GRASS	E	SY SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V1	23"
V2A	SB THRU LANES	сомв.	2		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	COMB.	3		6	V10	2	2		CAMERA V3	23"
V2C	SB THRU LANES	COMB.	4		6	V10	2	2		CAMERA V3	23"
V2D	SB ADV.	LOCAL	5		5	V2(D1)	2			CAMERA V5	23"
V2E	SB ADV.	LOCAL	6		5	V2(D2)	2			CAMERA V5	23"
V2F	SB ADV.	LOCAL	7		5	V2(D3)	2			CAMERA V5	23"
V4A	WB THRU LANE	COMB.	8		14	V12	4	4		CAMERA V4	23"
V4B	WB THRU LANE	COMB.	8		14	V12	4	4		CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	10		8	V5	5			CAMERA V3	23"
V6A	NB THRU LANE	COMB.	11		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	COMB.	12		4	V14	6	6		CAMERA V1	23"
V6C	NB THRU LANE	COMB.	13		4	V14	6	6		CAMERA V1	23"
V6D	NB ADV.	LOCAL	14		3	V6(D4)	6			CAMERA V6	23"
V6E	NB ADV.	LOCAL	15		3	V6(D5)	6			CAMERA V6	23"
V6F	NB ADV.	LOCAL	16		3	V6(D6)	6			CAMERA V6	23"
V8A	EB THRU LANE	COMB.	17		12	V16	8			CAMERA V2	23"
V8B	EB THRU LANE	COMB.	18		12	V16	8			CAMERA V2	23"

D = System or Auxiliary input

P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



	UNIVERSITY AVE AND SAGE GRASS INTERVAL CHART FOR NORMAL OPERATION FLASH												
SIGNAL				INTERVAL	CHART FOR	NORMAL	OPERATION					FLASH	
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	4 & 8	CLR		SEQ	
1	G <-	*	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-		R <-	
2 & 3	R	R	G	**	R	R	G	**	R	R		R	
4 & 5	R	R	R	R	R	R	R	R	G	**		R	
6 & 7	R	R	R	R	R	R	R	R	G	**		R	
8	G <-	*	R <-	R <-	G	*	R <-	R <-	R <-	R <-		R <-	
9 & 10	R	R	R	R	G	**	G	**	R	R		R	

- * DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE

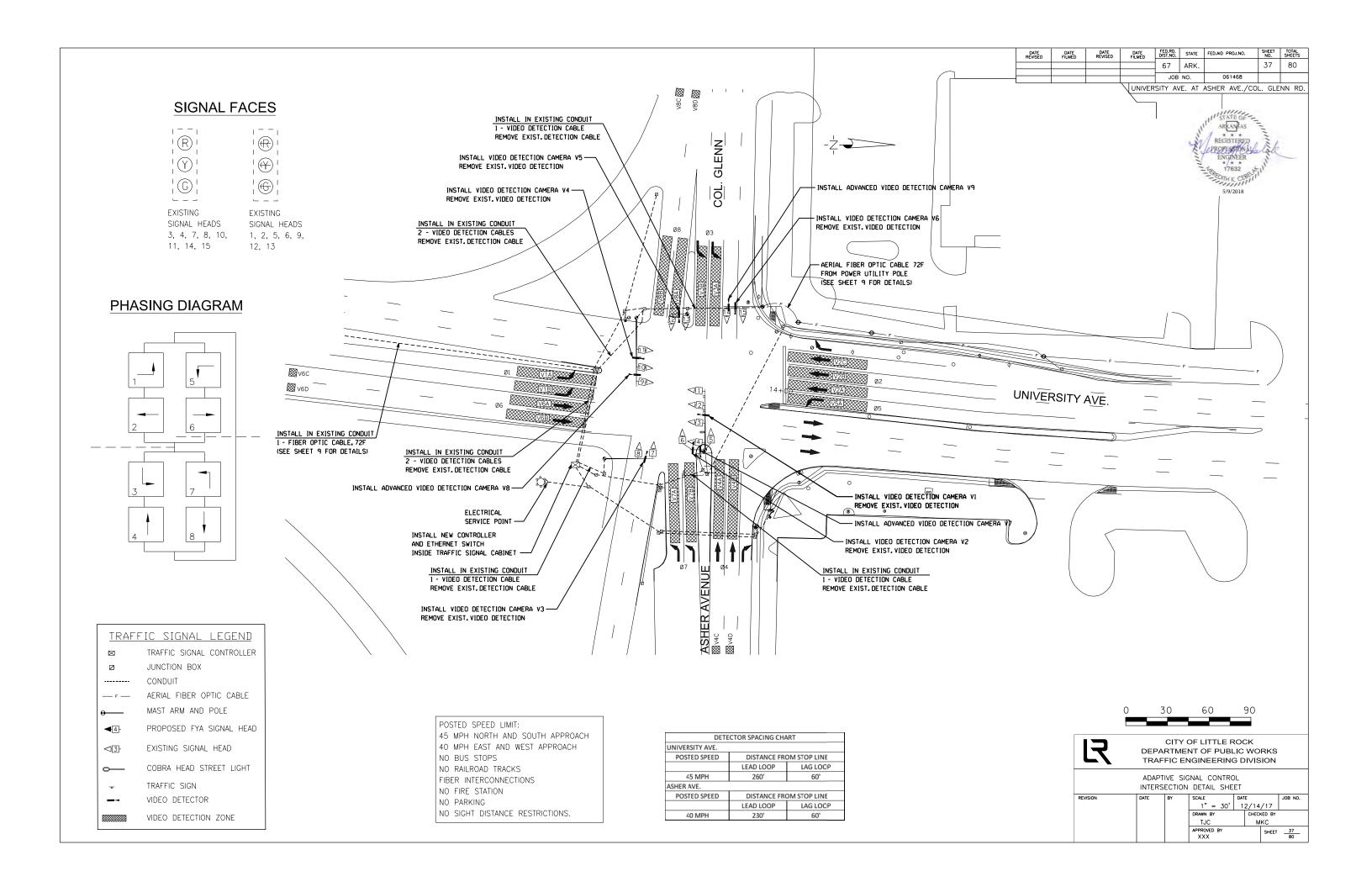
 ** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE

R

CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

	INTERSECTION DETAIL ONCE							
REVISION	DATE	BY	SCALE	DATE		JOB NO.		
			N.T.S.	12/	/14/17			
			DRAWN BY	C	HECKED BY			
			TJC MI		MKC			
			APPROVED BY		SHEET	36		
			XXX			80		



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		38	80
				JOB	NO.	061468		

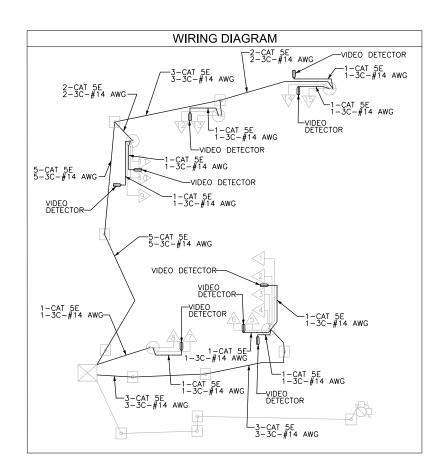
UNIVERSITY AVE. AT ASHER AVE./COL. GLENN RD.

ARKANAS =
ENGINER 17632
5/9/2018

			DE	TECTO	R SYST	EM DESCI	RIPTION				
				HARD	WARE	INPUTS	PROC	SRAM ASS	IGNMENTS		
PUL	ASKI COUNTY - UNIVERSIT	Y AVE. /AS	HER	B	Y SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V1	23"
V1B	NB LEFT TURN	LOCAL	2		2	V1	1			CAMERA V1	23"
V2A	SB THRU LANES	COMB.	3		6	V10	2	2		CAMERA V4	23"
V2B	SB THRU LANES	COMB.	4		6	V10	2	2		CAMERA V4	23"
V2C	SB THRU LANES	COMB.	5		6	V10	2	2		CAMERA V4	23"
V3A	EB LEFT TURN	LOCAL	6		10	V3	3			CAMERA V2	23"
V3B	EB LEFT TURN	LOCAL	7		10	V3	3			CAMERA V2	23"
V4A	WB THRU LANE	COMB.	8		14	V12	4	4		CAMERA V6	23"
V4B	WB THRU LANE	COMB.	9		14	V12	4	4		CAMERA V6	23"
V4C	WB ADV.	LOCAL	10		13	V3(D7)	4			CAMERA V7	23"
V4D	WB ADV.	LOCAL	11		13	V3(D8)	4			CAMERA V7	23"
V5A	SB LEFT TURN	LOCAL	12		8	V5	5			CAMERA V4	23"
V6A	NB THRU LANE	COMB.	13		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	COMB.	14		4	V14	6	6		CAMERA V1	23"
V6C	NB ADV.	LOCAL	15		3	V6(D3)	6			CAMERA V8	23"
V6D	NB ADV.	LOCAL	16		3	V6(D4)	6			CAMERA V8	23"
V7A	WB LEFT TURN	LOCAL	17		16	V7	7			CAMERA V5	23"
V7B	WB LEFT TURN	LOCAL	18		16	V7	7			CAMERA V5	23"
V8A	EB THRU LANE	COMB.	19		12	V16	8	8		CAMERA V3	23"
V8B	EB THRU LANE	COMB.	20		12	V16	8	8		CAMERA V3	23"
V8C	EB ADV.	LOCAL	21		11	V8(D5)	8			CAMERA V9	23"
V8D	EB ADV.	LOCAL	22		11	V8(D6)	8			CAMERA V9	23"
V = Vehicle	input				SPAR	E: 1, 5, 7,	9, 15				

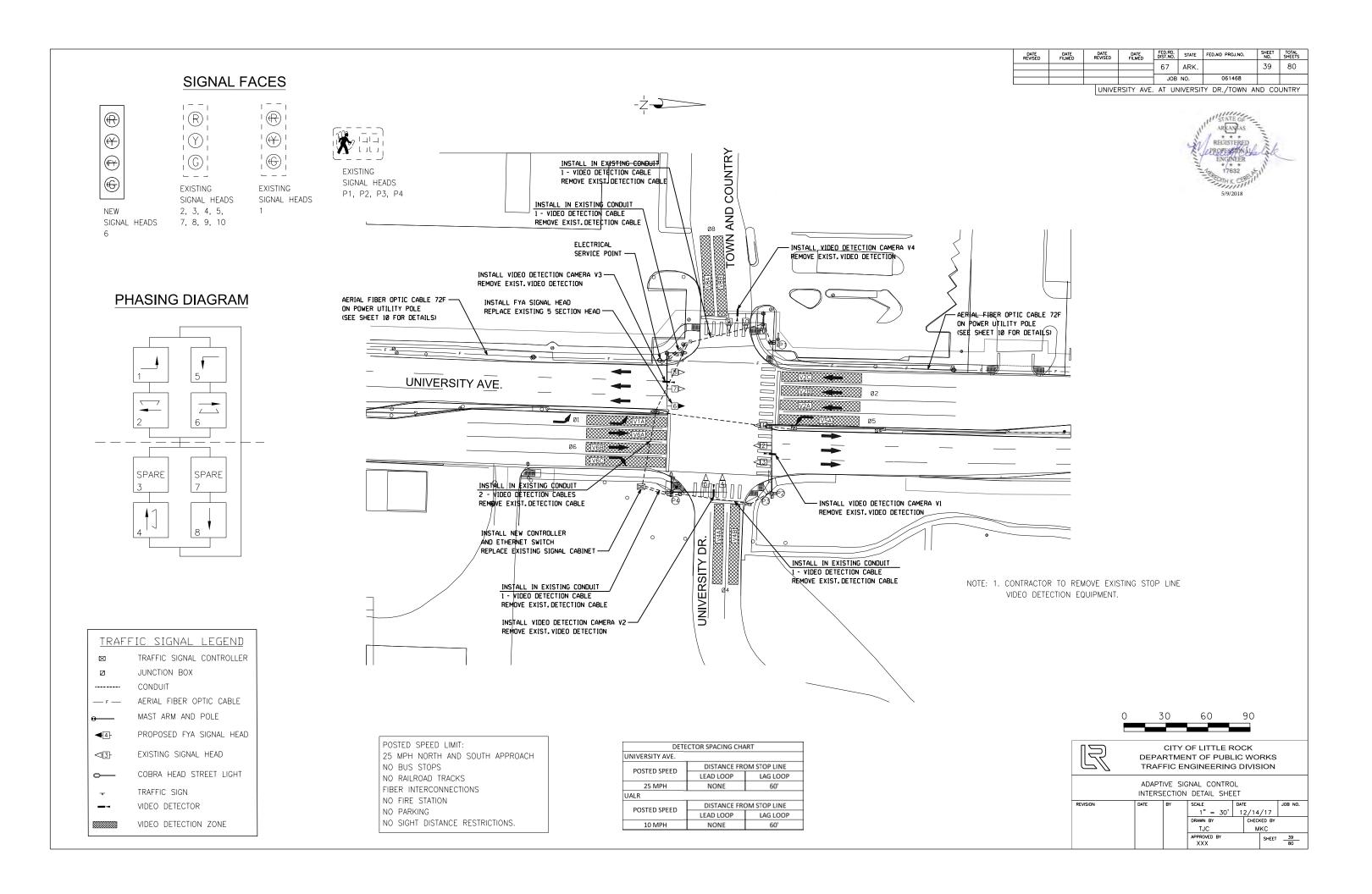
D = System or Auxiliary input

P = Pedestrian input



	UNIVERSITY AVE AND ASHER																
SIGNAL INTERVAL CHART FOR NORMAL OPERATION												FLASH					
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1 & 2	G <-	*	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-							
3 & 4	3&4 R R G ** R R G ** R R R R R R R														R		
5 & 6	5&6 R<-														R <-		
7 & 8	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
9	G <-	*	R <-	R <-	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-					
10 & 11	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
12 & 13	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	G <-	*	R <-	R <-	G <-	*	R <-	R <-	R <-
14 & 15	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE																	
***	*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE																

R		ARTM	OF LITTLE ENT OF PUB ENGINEERIN	BLIC	wo						
			IGNAL CONTI IN DETAIL SH								
REVISION	DATE	BY	SCALE	DA	TE		JOB NO				
			N.T.S.	1	2/14	/17					
			DRAWN BY		CHEC	KED BY					
	TJC MKC										
	APPROVED BY SHEET 38										
	XXX SHEET 80										



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		40	80
				JOB	NO.	061468		

UNIVERSITY AVE. AT UNIVERSITY DR./TOWN AND COUNTRY



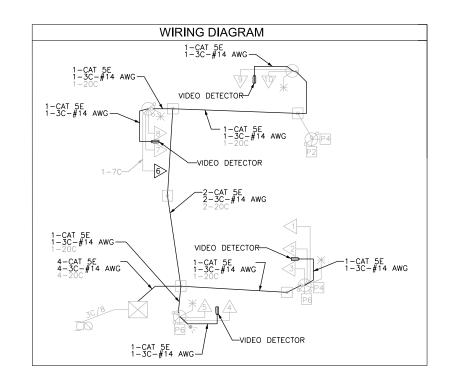
			DET	ECTOR	SYSTE	M DES	CRIPTION	1			
				IN.	IPUTS I	BY	PROG	SRAM ASS	IGNMENTS		
PU	LASKI COUNTY - UNIVERSI	TY AVE. /U	ALR	SUPPLIER			LOCAL		MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	DET. NUMBERS		SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V4B	WB THRU LANE	LOCAL	6			V6	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	7			V7	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	8			V8	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V9	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	10			V10	6			CAMERA V1	23"
V8A	EB THRU LANE	LOCAL	11			V11	8			CAMERA V2	23"
V8B	EB THRU LANE	LOCAL	12			V12	8			CAMERA V2	23"

V = Vehicle input

D = System or Auxiliary input

P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION	l						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	FY<-	***	FY<-	***							R	R	R
2	R	R	G	**	R	R	G	**							R	R	R
3	R	R	G	**	R	R	G	**							R	R	R
4	R	R	R	R	R	R	R	R							G	**	R
5	R	R	R	R	R	R	R	R							G	**	R
6	G <-	*	R	R	G <-	*	R	R							R	R	R
7	R	R	R	R	G	**	G	**							R	R	R
8	R	R	R	R	G	**	G	**							R	R	R
9	R	R	R	R	R	R	R	R							G	**	R
10	R	R	R	R	R	R	R	R							G	**	R
P1	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P2	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P3	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P4	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	



CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE	DATE		JOB NO.
			N.T.S.	12/14	/17	
			DRAWN BY	CHEC	KED BY	
			TJC	N	IKC	
			APPROVED BY XXX		SHEET	<u>40</u> 80

DATE REVISED DATE FILMED FED.RD. STATE FED.AID PROJ.NO. SHEET TOTAL NO. SHEETS DATE FILMED DATE REVISED 67 ARK. 41 80 JOB NO. UNIVERSITY AVE. AT W. 32ND ST.

VIDEO DETECTION EQUIPMENT.



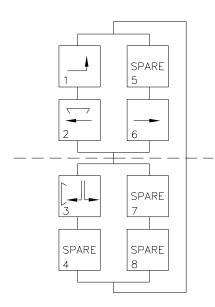
\bigoplus EXISTING (6) SIGNAL HEADS **EXISTING** P1, P2, P3, P4 SIGNAL HEADS NEW 2, 3, 4, 5, 6, SIGNAL HEADS

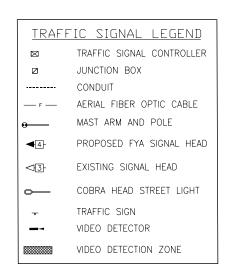
SIGNAL FACES

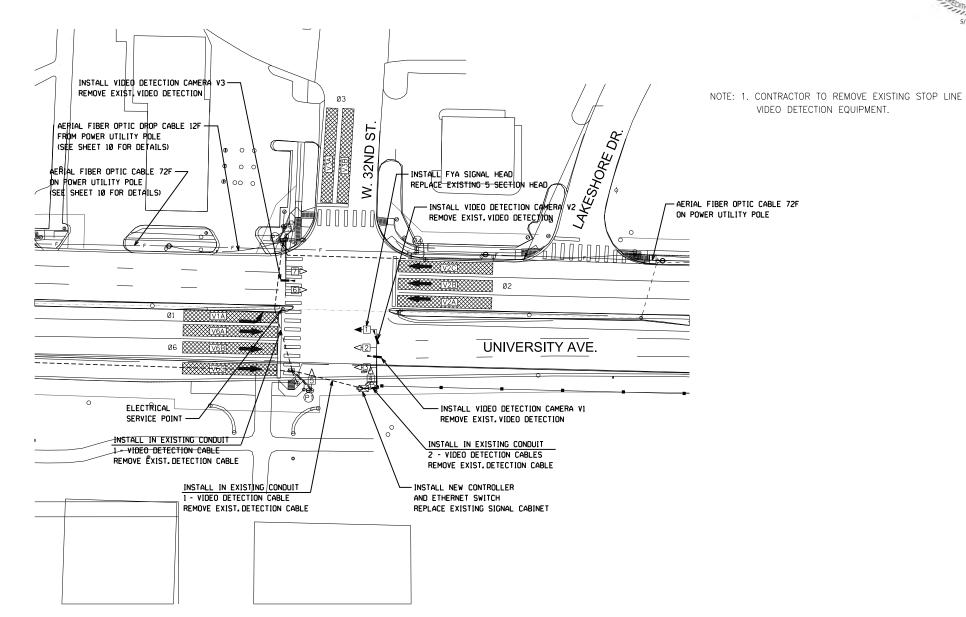
PHASING DIAGRAM

(P)

(+)







POSTED SPEED LIMIT: 25 MPH NORTH AND SOUTH APPROACH 25 MPH EAST AND WEST APPROACH BUS STOP LOCATED 90 FEET SOUTH OF UNIVERSITY AVE NORTHBOUND STOP LINE NO RAILROAD TRACKS FIBER INTERCONNECTIONS NO FIRE STATION NO PARKING NO SIGHT DISTANCE RESTRICTIONS.

DETE	CTOR SPACING CHA	ART
UNIVERSITY AVE.		
POSTED SPEED	DISTANCE FRO	OM STOP LINE
POSTED SPEED	LEAD LOOP	LAG LOOP
25 MPH	NONE	60'
32ND		
POSTED SPEED	DISTANCE FRO	OM STOP LINE
POSTED SPEED	LEAD LOOP	LAG LOOP
25 MPH	NONE	60'



CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE	DATE		Ţ	JOB NO.
			1" = 30'	12	/14/17		
			DRAWN BY		CHECKED BY		
			TJC		MKC		
			APPROVED BY		SHEE	т	<u>41</u> 80
	REVISION	REVISION DATE	REVISION DATE BY	1" = 30' DRAWN BY TJC	1" = 30' 12 DRAWN 8Y	1" = 30' 12/14/17 DRAWN BY CHECKED BY TJC MKC APPROVED BY SHEE	1" = 30' 12/14/17 DRAWN BY TU MKC APPROVED BY SHEET

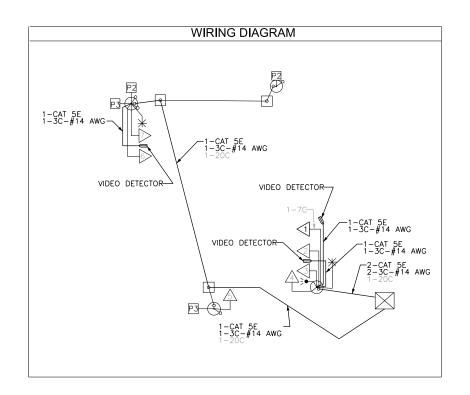
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		42	80
				JOB	NO.	061468		
				UI	NIVERSI'	TY AVE. AT W.	32ND	ST.



			DET	FECTOR	SYSTE	M DES	CRIPTION	V			
				11	NPUTS	BY	PROC	GRAM ASS	IGNMENTS		
PULA	ASKI COUNTY - UNIVERSITY	AVE. /32N	ID ST.	s	UPPLIE	R	LO	CAL	MASTER		TUDE
									SYSTEM	COMMENTS	TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB	AMP		PHS	SYSTEM	DETECTION		LENGTHS
				I RM#	CHN#	INP#		DET.	NUMBERS		
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V3A	EB THRU LANE	LOCAL	5			V5	3			CAMERA V2	23"
V3B	EB THRU LANE	LOCAL	6			V6	3			CAMERA V2	23"
V6A	NB THRU LANE	LOCAL	7			V7	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	8			V8	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	9			V9	6			CAMERA V1	23"

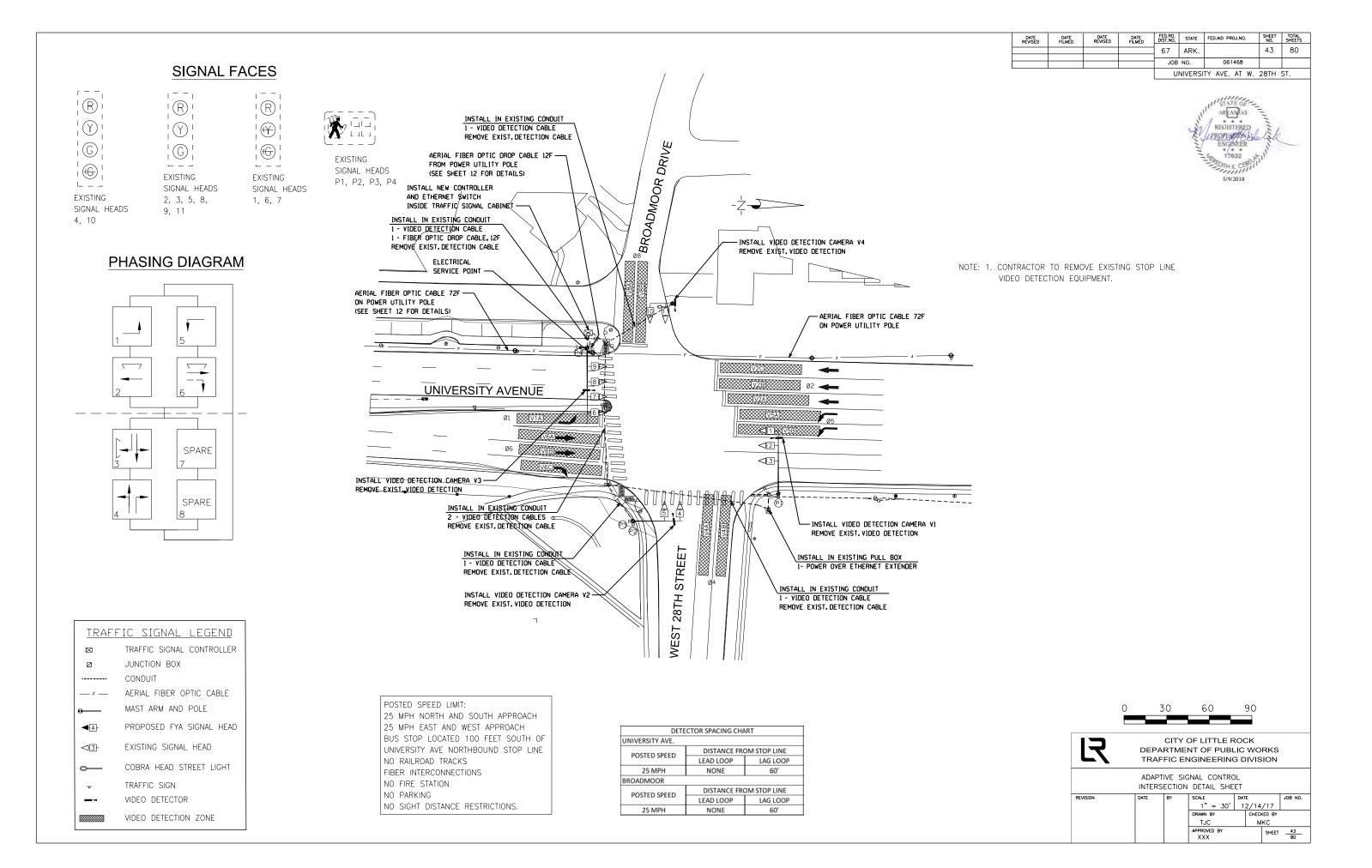
D = System or Auxiliary input

P = Pedestrian input



								UNIVERSI	TY AVE AND	32ND ST							
SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION	J						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1			G <-	*	FY<-	***	FY<-	***							R	R	R
2			G	**	R	R	G	**							R	R	R
3			G	**	R	R	G	**							R	R	R
4			R	R	R	R	R	R							G	**	R
5			R	R	R	R	R	R							G	**	R
6			R	R	G	**	G	**							R	R	R
7			R	R	G	**	G	**							R	R	R
P1			DW	DW	DW	DW	DW	DW							W	FDW	
P2			DW	DW	DW	DW	DW	DW							W	FDW	
Р3			DW	DW	W	FDW	W	FDW							DW	DW	
P4			DW	DW	W	FDW	W	FDW							DW	DW	
*	DENOTES	GREEN OR	YELLOW AF	RROW DEP	ENDING ON	NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW B	ALL DEPEN	DING ON N	EXT PHASE			
***	DENOTES	FLASHING '	YELLOW AR	ROW OR Y	ELLOW AR	ROW DEPE	NDING ON	THE NEXT I	PHASE								

LR		ARTME	OF LITTLE NT OF PUB NGINEERIN	LIC	WORKS	_					
		-	GNAL CONTR N DETAIL SHI								
REVISION	DATE	BY	SCALE	DAT	ΤE	JOB NO					
			N.T.S.	1	2/14/17						
	DRAWN BY CHECKED BY										
	TJC MKC										
			APPROVED BY		SHEE	т 42					



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		44	80
				JOB	NO.	061468		
	•			U	NIVERSI	TY AVE. AT W.	28TH	ST.

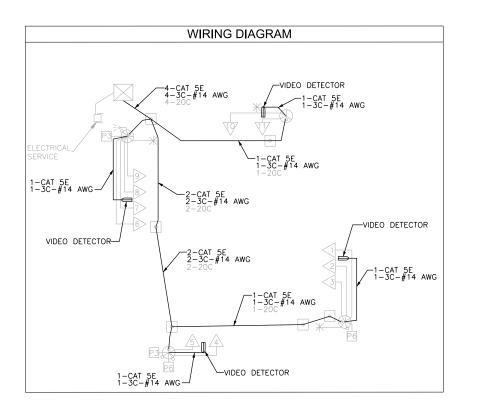
REGISTERED PROFESSIONAL ENGINEER

			DET	FCTOR	SYSTE	M DESC	RIPTION	ı			
				11	IPUTS	ВҮ	PROG	RAM ASS	IGNMENTS		
PULASK DET. ID#	LOCATION DIRECTION	VE. /BROAI	DMOOR DET.	САВ	AMP CHN#	CON.	PHS	SYSTEM DET.	MASTER SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V4B	WE RIGHT TURN	LOCAL	5			V6	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	6			V7	5			CAMERA V3	23"
V5B	SB LEFT TURN	LOCAL	7			V8	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	8			V9	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V10	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	10			V11	6			CAMERA V1	23"
V8A	EB THRU LANE	LOCAL	11			V12	8			CAMERA V2	23"
V8B	EB THRU LANE	LOCAL	12			V13	8			CAMERA V2	23"

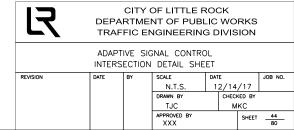
V = Vehicle input

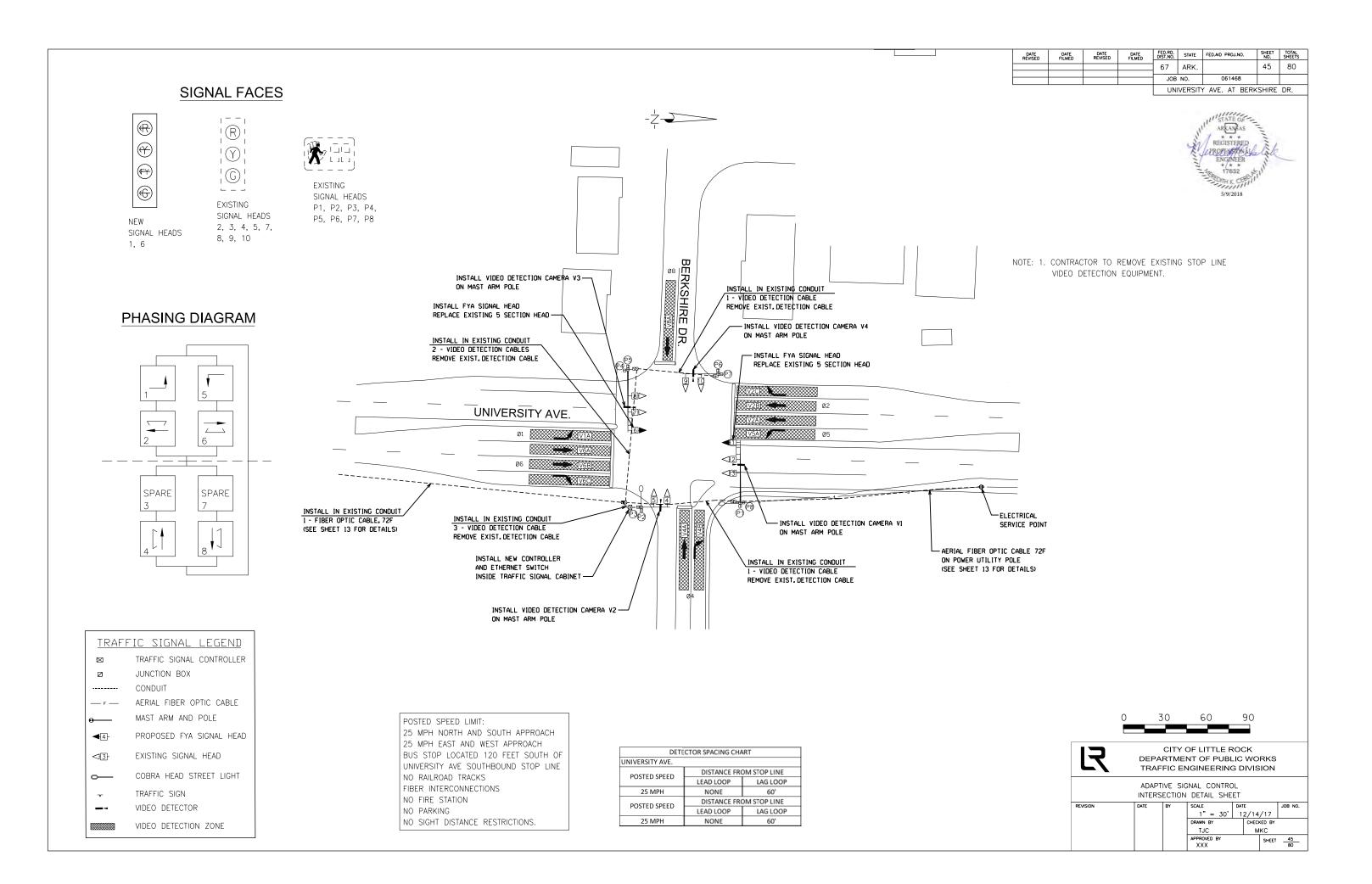
D = System or Auxiliary input

P = Pedestrian input



SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION	ı						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	R	R	R	R							R	R	R
2	R	R	G	**	R	R	G	**							R	R	R
3	R	R	G	**	R	R	G	**							R	R	R
4	R	R	R	R	R	R	R	R							G	*/**	R
5	R	R	R	R	R	R	R	R							G	**	R
6	G <-	*	R	R	R	R	R	R							R	R	R
7	G <-	*	R	R	R	R	R	R							R	R	R
8	R	R	R	R	G	**	G	**							R	R	R
9	R	R	R	R	G	**	G	**							R	R	R
10	R	R	R	R	R	R	R	R							G	*/**	R
11	R	R	R	R	R	R	R	R							G	*/**	R
P1	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P2	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P3	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P4	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		46	80
				JOB	NO.	061468		

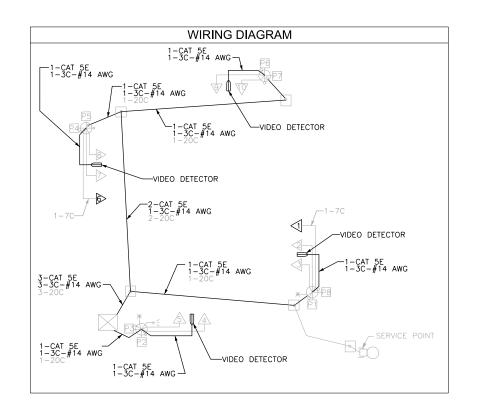
UNIVERSITY AVE. AT BERKSHIRE DR.



			DE.	TECTOF	SYSTE	M DESC	CRIPTION	1			
				11	NPUTS	BY	PROG	RAM ASS	IGNMENTS		
PULAS	SKI COUNTY - UNIVERSITY	AVE. /BER	SHIRE	S	UPPLIE	R	LO	CAL	MASTER		TURE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V4B	WB RIGHT TURN	LOCAL	6			V6	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	7			V7	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	8			V8	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V9	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	10			V10	6			CAMERA V1	23"
V8A	EB THRU LANE	LOCAL	11			V11	8			CAMERA V2	23"

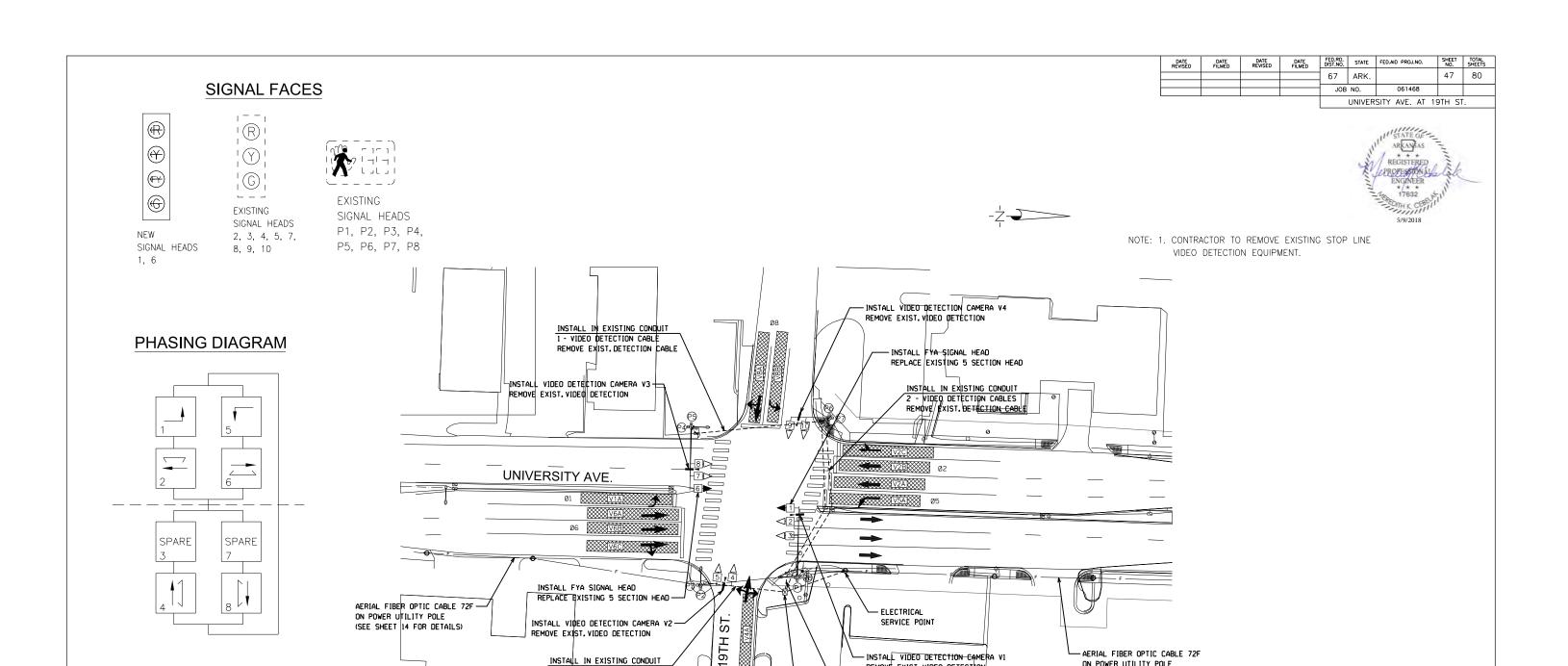
V = Vehicle input
D = System or Auxiliary input

P = Pedestrian input



SIGNAL							INTERVAL	CHART FOR	NORMAL (PERATION							FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	FY<-	***	FY<-	***							R	R	R
2	R	R	G	**	R	R	G	**							R	R	R
3	R	R	G	**	R	R	G	**							R	R	R
4	R	R	R	R	R	R	R	R							G	**	R
5	R	R	R	R	R	R	R	R							G	**	R
6	G <-	*	FY<-	***	G <-	*	FY<-	***							R	R	R
7	R	R	R	R	G	**	G	**							R	R	R
8	R	R	R	R	G	**	G	**							R	R	R
9	R	R	R	R	R	R	R	R							G	**	R
10	R	R	R	R	R	R	R	R							G	**	R
P1	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P2	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P3	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P4	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P5	DW	DW	DW	DW	W	FDW	W	FDW							DW	DW	
P6	DW	DW	DW	DW	W	FDW	W	FDW							DW	DW	
P7	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P8	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	

R	DEPA	RTME	OF LITTLE F NT OF PUBL IGINEERING	.IC	wo		
			NAL CONTRO DETAIL SHE	_			
REVISION	DATE	BY	SCALE	DAT	-		JOB
			N.T.S.	1.	2/14	/17	ı
			DRAWN BY		CHECH	KED BY	
			TJC		М	KC	
			APPROVED BY XXX			SHEET	80



TRAFFIC SIGNAL LEGEND

TRAFFIC SIGNAL CONTROLLER \boxtimes

JUNCTION BOX

CONDUIT

AERIAL FIBER OPTIC CABLE — г —

MAST ARM AND POLE **◄**4 PROPOSED FYA SIGNAL HEAD

<3}-EXISTING SIGNAL HEAD

COBRA HEAD STREET LIGHT \circ

TRAFFIC SIGN

VIDEO DETECTOR

VIDEO DETECTION ZONE

POSTED SPEED LIMIT: 25 MPH NORTH AND SOUTH APPROACH

25 MPH EAST AND WEST APPROACH BUS STOP LOCATED 100 FEET NORTH OF UNIVERSITY AVE SOUTHBOUND STOP LINE

INSTALL IN EXISTING CONDUIT

REMOVE EXIST. DETECTION CABLE

1 - VIDEO DETECTION CABLE

NO RAILROAD TRACKS FIBER INTERCONNECTIONS

NO FIRE STATION

NO PARKING

NO SIGHT DISTANCE RESTRICTIONS.

DETE	CTOR SPACING CHA	ART
UNIVERSITY AVE.		
POSTED SPEED	DISTANCE FRO	OM STOP LINE
POSTED SPEED	LEAD LOOP	LAG LOOP
25 MPH	NONE	60'
19TH ST.		
POSTED SPEED	DISTANCE FRO	OM STOP LINE
POSTED SPEED	LEAD LOOP	LAG LOOP
25 MPH	NONE	60'

- INSTALL VIDEO DETECTION CAMERA VI

REMOVE EXIST. VIDEO DETECTION

INSTALL IN EXISTING CONDUIT
3 - VIDEO DETECTION CABLE

INSTALL NEW CONTROLLER

AND ETHERNET SWITCH INSIDE TRAFFIC SIGNAL CABINET





- AERIAL FIBER OPTIC CABLE 72F

(SEE SHEET 14 FOR DETAILS)

ON POWER UTILITY POLE

CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

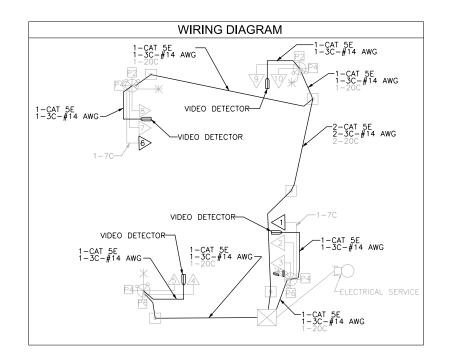
REVISION	DATE	BY	SCALE	DAT	ΤE	JOB NO.
			1" = 30'	1	2/14/17	
			DRAWN BY		CHECKED BY	
			TJC		MKC	
			APPROVED BY		SHEET	80

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		48	80
				JOB	NO.	061468		
					UNIVER	SITY AVE. AT 19	TH ST	

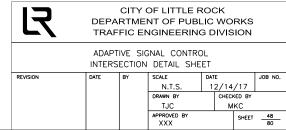


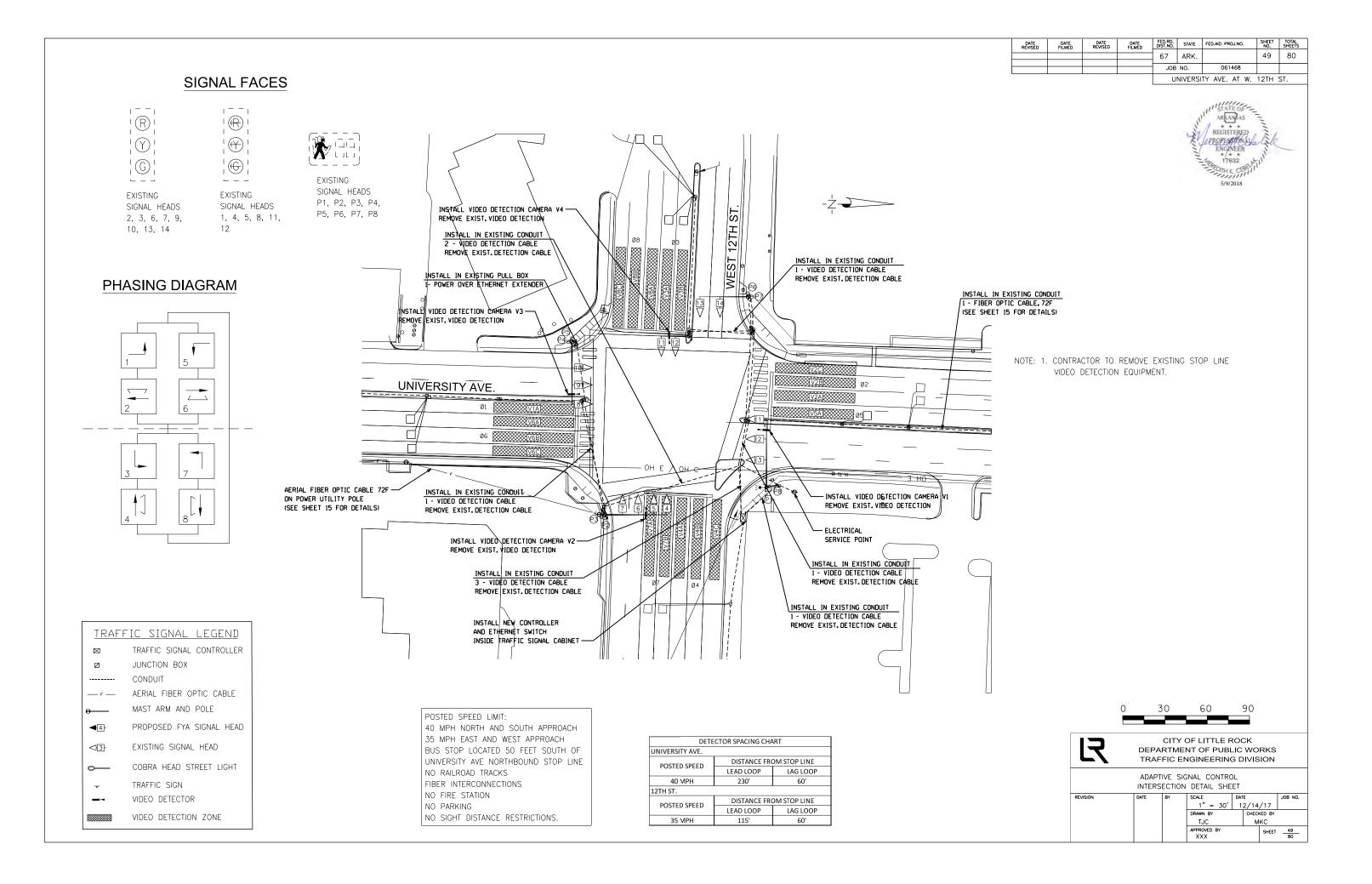
			DET	ГЕСТОР	SYSTE	M DESC	CRIPTION	1			
				11	NPUTS I	BY	PROG	RAM ASS	IGNMENTS		
PULA	ASKI COUNTY - UNIVERSITY	/ AVE. /19T	H ST.	S	UPPLIE	R	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	6			V6	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	7			V7	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	8			V8	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	9			V9	6			CAMERA V1	23"
V8A	EB THRU LANE	LOCAL	10			V10	8			CAMERA V2	23"
V8B	EB THRU LANE	LOCAL	11			V11	8			CAMERA V2	23"

- V = Vehicle input
- D = System or Auxiliary input
- P = Pedestrian input



SIGNAL							INTERVAL	CHART FOR	NORMAL (FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	FY<-	***	FY<-	***							R	R	R
2	R	R	G	**	R	R	G	**							R	R	R
3	R	R	G	**	R	R	G	**							R	R	R
4	R	R	R	R	R	R	R	R							G	**	R
5	R	R	R	R	R	R	R	R							G	**	R
6	G <-	*	FY<-	***	G <-	*	FY<-	***							R	R	R
7	R	R	R	R	G	**	G	**							R	R	R
8	R	R	R	R	G	**	G	**							R	R	R
9	R	R	R	R	R	R	R	R							G	**	R
10	R	R	R	R	R	R	R	R							G	**	R
P1	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P2	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P3	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P4	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P5	DW	DW	DW	DW	W	FDW	W	FDW							DW	DW	
P6	DW	DW	DW	DW	W	FDW	W	FDW							DW	DW	
P7	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P8	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
			 YELLOW AF					** THE NEXT F		GREEN OR	YELLOW BA	<u> </u> ALL DEPENI	I DING ON N	<u> </u> Ext phase			





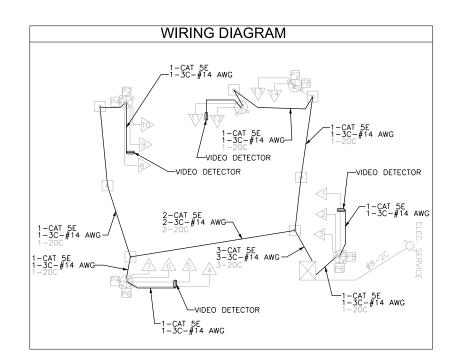
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		50	80
				JOB	NO.	061468		
				U	NIVERSI	TY AVE. AT W.	12TH	ST.



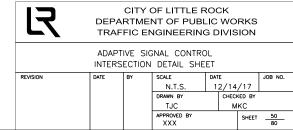
			DET	ECTOR	SYSTE	M DES	CRIPTION	N .			
				11	NPUTS I	BY	PROG	RAM ASS	IGNMENTS		
PULA	SKI COUNTY - UNIVERSITY	' AVE. /12T	H ST.	S	UPPLIE	R	LO	CAL	MASTER		TUBE
				CAB	AMP	CON.		SYSTEM	SYSTEM	COMMENTS	LENGTHS
DET. ID#	LOCATION DIRECTION	TYPE	DET.			INP#	PHS	DET.	DETECTION		LENGINS
				I KIVI#	CHN#	INP#		DET.	NUMBERS		
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V3A	EB LEFT TURN	LOCAL	5			V5	3			CAMERA V2	23"
V3B	EB LEFT TURN	LOCAL	6			V6	3			CAMERA V2	23"
V4A	WB THRU LANE	LOCAL	7			V7	4			CAMERA V4	23"
V4B	WB THRU LANE	LOCAL	8			V8	4			CAMERA V4	23"
V4C	WB THRU LANE	LOCAL	9			V9	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	10			V10	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	11			V11	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	12			V12	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	13			V13	6			CAMERA V1	23"
V7A	WB LEFT TURN	LOCAL	14			V14	7			CAMERA V4	23"
V7B	WB LEFT TURN	LOCAL	15			V15	7			CAMERA V4	23"
V8A	EB THRU LANE	LOCAL	16			V16	8			CAMERA V2	23"
V8B	EB THRU LANE	LOCAL	17			V17	8			CAMERA V2	23"
V8C	EB THRU LANE	LOCAL	18			V18	8			CAMERA V2	23"

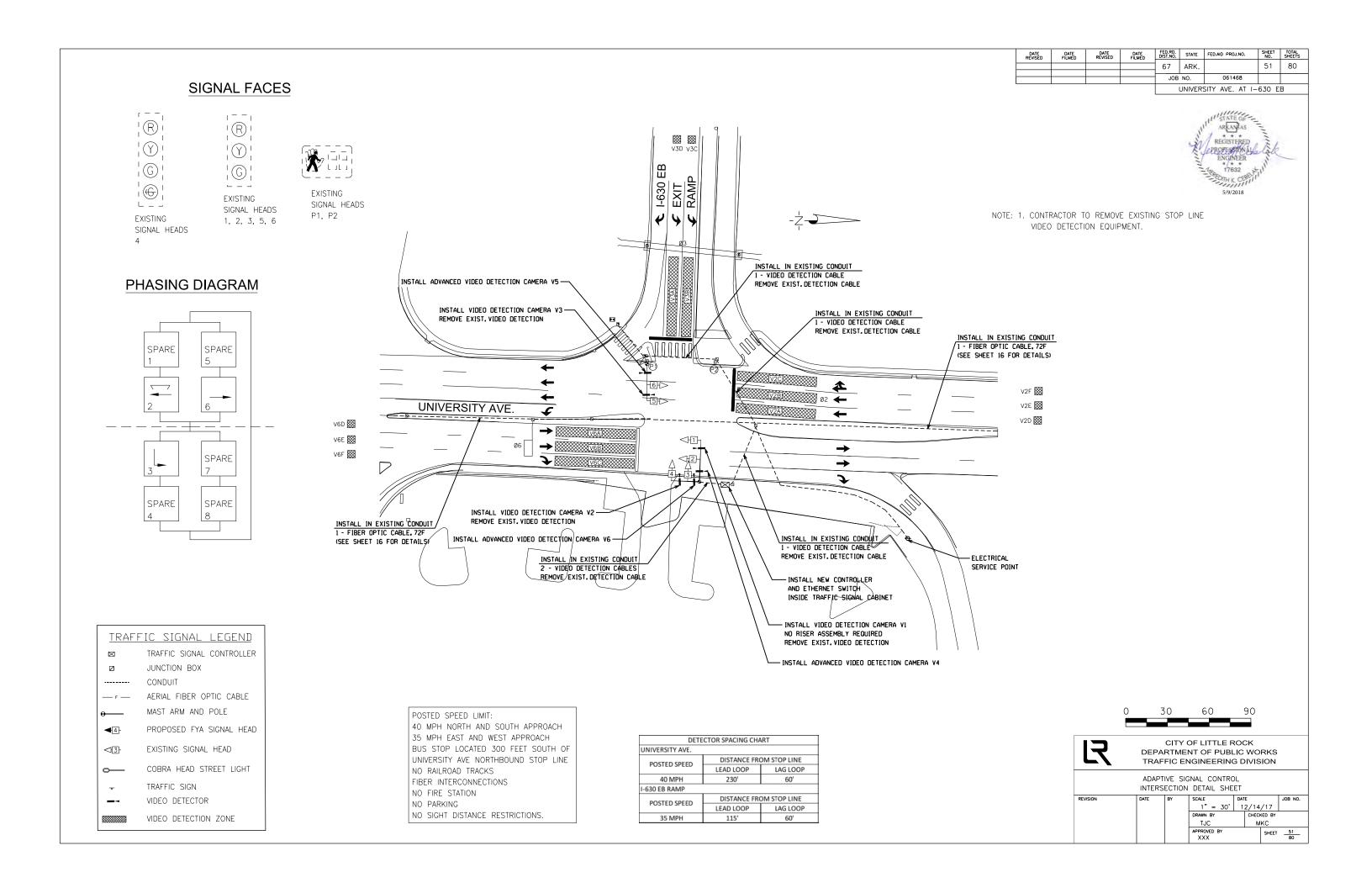
D = System or Auxiliary input

P = Pedestrian input



							INTERVAL (CHART FOR	NORMAL (OPERATION							FLASI
4	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1 (G <-	*	G <-	*	R	R	R	R	R	R	R	R	R	R	R	R	R
2	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
3	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R	G <-	*	G <-	*	R	R	R	R	R
5	R	R	R	R	R	R	R	R	G <-	*	G <-	*	R	R	R	R	R
6	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
7	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
8 (G <-	*	R	R	G <-	*	R	R	R	R	R	R	R	R	R	R	R
9	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
10	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
11	R	R	R	R	R	R	R	R	G <-	*	R	R	G <-	*	R	R	R
12	R	R	R	R	R	R	R	R	G <-	*	R	R	G <-	*	R	R	R
13	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	
14	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	
P1 (DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P2 [DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P3 [DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	
P4 [DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	
P5 (DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P6 (DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P7 [DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	
P8 (DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				67	ARK.		52	80	
				JOB	NO.	061468			
				UNIVERSITY AVE. AT 1-630 EB					

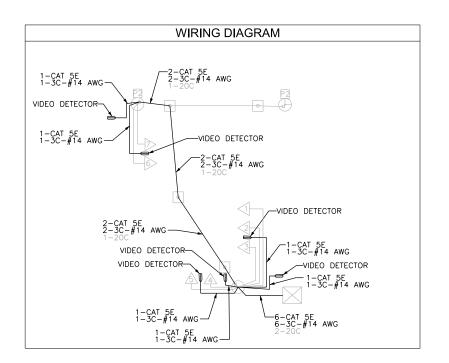


				ETECTO	D CVCT	EM DESC	DIDTION				
			U				PROGRAM ASSIGNMENTS				
DI II ACK	COLUNITY LINUX/FROITY AN	/F // cao F				INPUTS					
PULASK	I COUNTY - UNIVERSITY AV	VE. /I-630 E	B RAMP	В	Y SUPP	LIER	LO	CAL	MASTER		TUBE
				CAB	AMP	CON.		SYSTEM	SYSTEM	COMMENTS	LENGTHS
DET. ID#	LOCATION DIRECTION	TYPE	DET.	TRM#	CHN#	INP#	PHS	DET.	DETECTION		
								52	NUMBERS		
V2A	SB THRU LANES	COMB.	1		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	COMB.	2		6	V10	2	2		CAMERA V3	23"
V2C	SB THRU LANES	COMB.	3		6	V10	2	2		CAMERA V3	23"
V2D	SB ADV.	LOCAL	4		5	V2(D1)	2			CAMERA V4	23"
V2E	SB ADV.	LOCAL	5		5	V2(D2)	2			CAMERA V4	23"
V2F	SB ADV.	LOCAL	6		5	V2(D3)	2			CAMERA V4	23"
V3A	EB LEFT TURN	LOCAL	7		10	V3	3			CAMERA V2	23"
V3B	EB LEFT TURN	LOCAL	8		10	V3	3			CAMERA V2	23"
V3C	EB ADV.	COMB.	9		9	V11(D7)	3	3		CAMERA V6	23"
V3D	EB ADV.	сомв.	10		9	V11(D8)	3	3		CAMERA V6	23"
V6A	NB THRU LANE	сомв.	11		4	V6	6	6		CAMERA V1	23"
V6B	NB THRU LANE	сомв.	12		4	V6	6	6		CAMERA V1	23"
V6C	NB THRU LANE	сомв.	13		4	V6	6	6		CAMERA V1	23"
V6D	NB ADV.	LOCAL	14		3	V14(D4)	6			CAMERA V5	23"
V6E	NB ADV.	LOCAL	15		3	V14(D5)	6			CAMERA V5	23"
V6F	NB ADV.	LOCAL	16		3	V14(D6)	6			CAMERA V5	23"
P1	West Leg	PED					P2	2			
P2	West Leg	PED					P2	2			

SPARE: 1 - 2, 7 - 8, 11 - 16

D = System or Auxiliary input P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



		UNIVERSIT	Y AVE AND I-630 EB		
SIGNAL	IN	TERVAL CHART FOR	NORMAL OPERATIO	N	
FACE	2&6	CLR	3	CLR	FLASH SEQ
1 & 2	G	**	R	R	R
3	R	R	G	**	R
4	R	R	G <-	**	R
5 & 6	G	**	R	R	R
P1	w	FDW	DW	DW	BLK
P2	w	FDW	DW	DW	BLK
* 0	DENOTES GREEN OF	R YELLOW ARROW D	EPENDING ON NEX	T PHASE	

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE

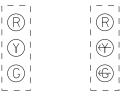
** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE

*** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE

LR		RTME	OF LITTLE F NT OF PUBL IGINEERING	-IC	wo			
	ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET							
REVISION	DATE	BY	SCALE		JOB NO			
			N.T.S.	2/14	/17			
			DRAWN BY	ED BY				
			TJC MKC					
			APPROVED BY	SHEET	_ 52			
			XXX				80	

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		53	80		
				JOB NO.		061468				
				UNIVERSITY AVE. AT 1-630 WB						

SIGNAL FACES



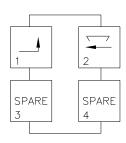
EXISTING **EXISTING** SIGNAL HEADS SIGNAL HEADS 3, 4 1, 2,



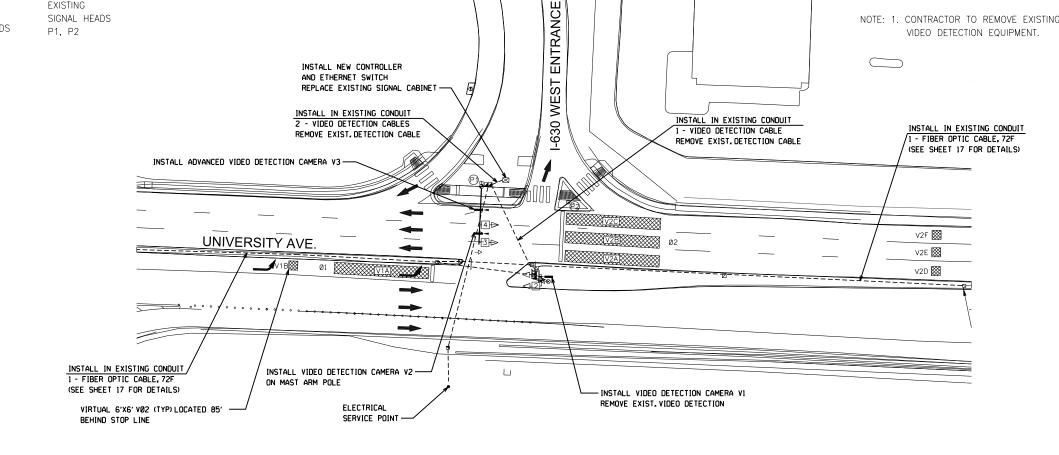
EXISTING SIGNAL HEADS P1, P2

NOTE: 1. CONTRACTOR TO REMOVE EXISTING STOP LINE VIDEO DETECTION EQUIPMENT.

PHASING DIAGRAM







INSTALL NEW CONTROLLER

	TRAFFIC	SIGNAL	LEGEND
--	---------	--------	--------

TRAFFIC SIGNAL CONTROLLER

JUNCTION BOX CONDUIT

AERIAL FIBER OPTIC CABLE

MAST ARM AND POLE PROPOSED FYA SIGNAL HEAD **4**

EXISTING SIGNAL HEAD <3-

COBRA HEAD STREET LIGHT O---

TRAFFIC SIGN

VIDEO DETECTOR

VIDEO DETECTION ZONE

		SPEED					
40	MPH	NORTH	I AND) SOL	JTH	APPROA	СН
35	MPH	EAST .	AND	WEST	ΑP	PROACH	

NO BUS STOPS NO RAILROAD TRACKS

FIBER INTERCONNECTIONS NO FIRE STATION

NO PARKING

NO SIGHT DISTANCE RESTRICTIONS.

DETE	CTOR SPACING CHA	ART		
UNIVERSITY AVE.				
POSTED SPEED	DISTANCE FRO	OM STOP LINE		
POSTED SPEED	LEAD LOOP	LAG LOOP 60'		
40 MPH	230'			
I-630 WB RAMP				
POSTED SPEED	DISTANCE FRO	OM STOP LINE		
POSTED SPEED	LEAD LOOP	LAG LOOP		
35 MPH	NONE	60'		





CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE		DAT	Ε		JOB	NO.
			1" =	30'	1	2/14	/17		
			DRAWN BY			CHECH	KED BY		
			TJC			М	KC		
			APPROVED	BY			SHEET		3
			XXX					- 8	0

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		54	80		
				JOB NO.		061468				
				UNIVERSITY AVE. AT 1-630 WB						

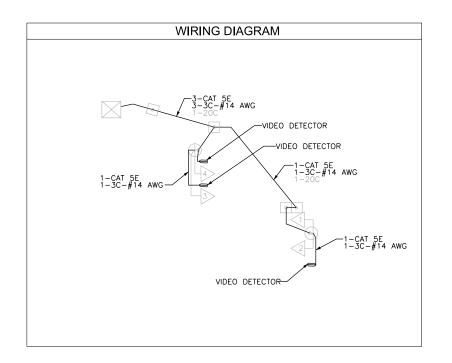


			DET	ECTOR	SYSTE	M DES	RIPTION	ı			
			52.		IPUTS		PROGRAM ASSIGNMENTS				П
PULASKI	COUNTY - UNIVERSITY AV	E. /I-630 W	/B RAMP	S	UPPLIE	R	LOCAL		MASTER		TUBE
DET. ID#			DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1			CAMERA V1	23"
V1B	NB LEFT TURN ADV.	COMB.	8		1	V9	1	1		CAMERA V1	23"
V2A	SB THRU LANES	COMB.	2		6	V10	2	2		CAMERA V2	23"
V2B	SB THRU LANES	COMB.	3		6	V10	2	2		CAMERA V2	23"
V2C	SB THRU LANES	COMB.	4		6	V10	2	2		CAMERA V2	23"
V2D	SB ADV.	LOCAL	5		5	V2	2			CAMERA V3	23"
V2E	SB ADV.	LOCAL	6		5	V2	2			CAMERA V3	23"
V2F	SB ADV.	LOCAL	7		5	V2	2			CAMERA V3	23"
P1	WEST LEG	PED				P2	2				
P2	WEST LEG	PED				P2	2				
V = Vehicle	= Vehicle input				SPAF	RE: 3-4,	7-16				

D = System or Auxiliary input

P = Pedestrian input

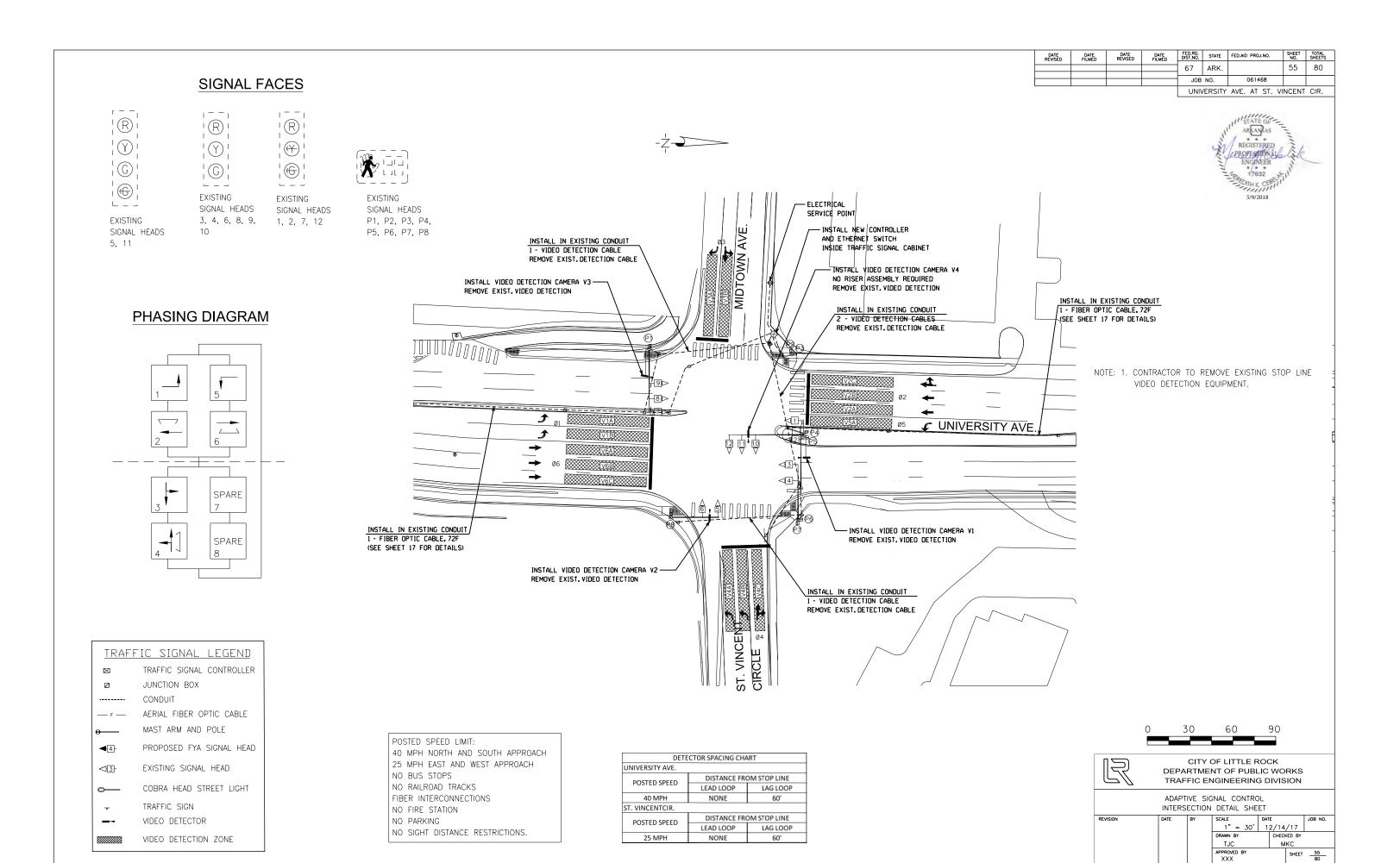
Add - Note: "Amp CHN#f" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



		UNIVERSITY A	AVE AND I-630	WB					
SIGNAL	INTERV	INTERVAL CHART FOR NORMAL OPERATION							
FACE	1&5	CLR	2&6	CLR	FLASH SEQ				
1 & 2	G <-	*	R	R	R				
3 & 4	R	R	G	**	R				
P1	DW	DW	w	FDW	BLK				
P2	DW	DW	w	FDW	BLK				

- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW
 - DEPENDING ON THE NEXT PHASE

R	DEPA	RTME	OF LITTLE ROCK INT OF PUBLIC WORK NGINEERING DIVISIO				
			IGNAL CONTROL N DETAIL SHEET				
REVISION	DATE	BY	SCALE	DAT	Έ		J
			N.T.S. 12/14		2/14	/17	
			DRAWN BY CHEC		CHECK	KED BY	
			TJC MI		KC		
			APPROVED BY XXX		SHEET		
					_		_



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		56	80
				JOB	NO.	061468		1

UNIVERSITY AVE. AT ST. VINCENT CIR.

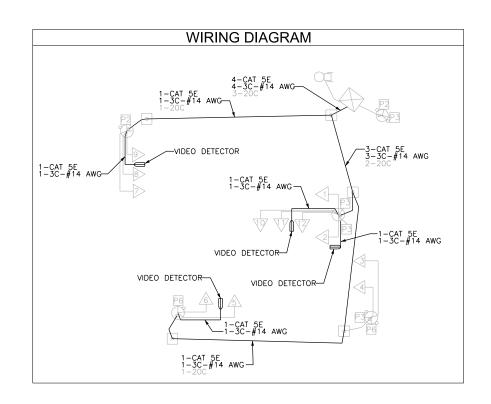


			DET	FECTOR	SYSTE	M DESC	CRIPTION	N			
				II	NPUTS I	BY	PROC	GRAM ASS	IGNMENTS		
PULAS	KI COUNTY - UNIVERSITY A	AVE. /ST. VI	NCENT	S	UPPLIE	R	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V1B	NB LEFT TURN	LOCAL	2			V2	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	5			V5	2			CAMERA V3	23"
V3A	EB THRU LANE	LOCAL	13			V6	3			CAMERA V2	23"
V3B	EB THRU LANE	LOCAL	14			V7	3			CAMERA V2	23"
V4A	WB THRU LANE	LOCAL	6			V8	4			CAMERA V4	23"
V4B	WB THRU LANE	LOCAL	7			V9	4			CAMERA V4	23"
V4C	WB THRU LANE	LOCAL	8			V10	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	9			V11	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	10			V12	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	11			V13	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	12			V14	6			CAMERA V1	23"

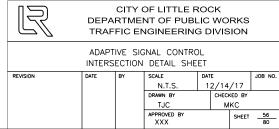
V = Vehicle input

D = System or Auxiliary input

P = Pedestrian input



							UN	IIVERSITY A	AVE AND ST	VINCENT (CIR						
SIGNAL							INTERVAL	CHART FOR	NORMAL (DPERATION							FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	R	R	R	R			R	R	R	R			R
2	G <-	*	G <-	*	R	R	R	R			R	R	R	R			R
3	R	R	G	**	R	R	G	**			R	R	R	R			R
4	R	R	G	**	R	R	G	**			R	R	R	R			R
5	R	R	R	R	R	R	R	R			G <-	*	R	R			R
6	R	R	R	R	R	R	R	R			G	**	R	R			R
7	G <-	*	R	R	G <-	*	R	R			R	R	R	R			R
8	R	R	R	R	G	**	G	**			R	R	R	R			R
9	R	R	R	R	G	**	G	**			R	R	R	R			R
10	R	R	R	R	R	R	R	R			R	R	G	**			R
11	R	R	R	R	R	R	R	R			R	R	G	**			R
12	R	R	R	R	R	R	R	R			R	R	G <-	*			R
P1	DW	DW	DW	DW	W	FDW	W	FDW			DW	DW	DW	DW			
P2	DW	DW	DW	DW	W	FDW	W	FDW			DW	DW	DW	DW			
P3	DW	DW	DW	DW	DW	DW	DW	DW			DW	DW	W	FDW			
P4	DW	DW	DW	DW	DW	DW	DW	DW			DW	DW	W	FDW			
P5	DW	DW	DW	DW	DW	DW	DW	DW			DW	DW	W	FDW			
P6	DW	DW	DW	DW	DW	DW	DW	DW			DW	DW	W	FDW			
P7	DW	DW	W	FDW	DW	DW	w	FDW			DW	DW	DW	DW			
P8	DW	DW	W	FDW	DW	DW	w	FDW			DW	DW	DW	DW			
			YELLOW AF						DENOTES	GREEN OR	YELLOW B	ALL DEPENI	DING ON N	EXT PHASE			



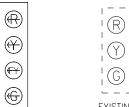
67 ARK. 57 80 JOB NO. 061468	I	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
JOB NO. 061468	ŀ					67	ARK.		57	80
	l					JOB	NO.	061468		

JOB NO. | 061468 | UNIVERSITY AVE. AT UNIVERSITY MALL



NOTE: 1. CONTRACTOR TO REMOVE EXISTING _____ 5/9/20 VIDEO DETECTION EQUIPMENT.

SIGNAL FACES



NEW

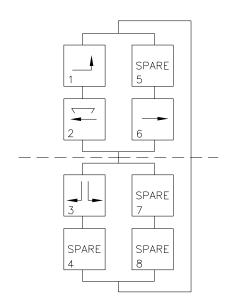
SIGNAL HEADS

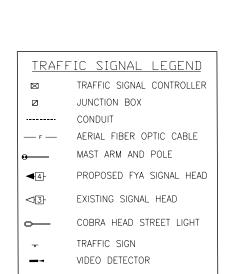




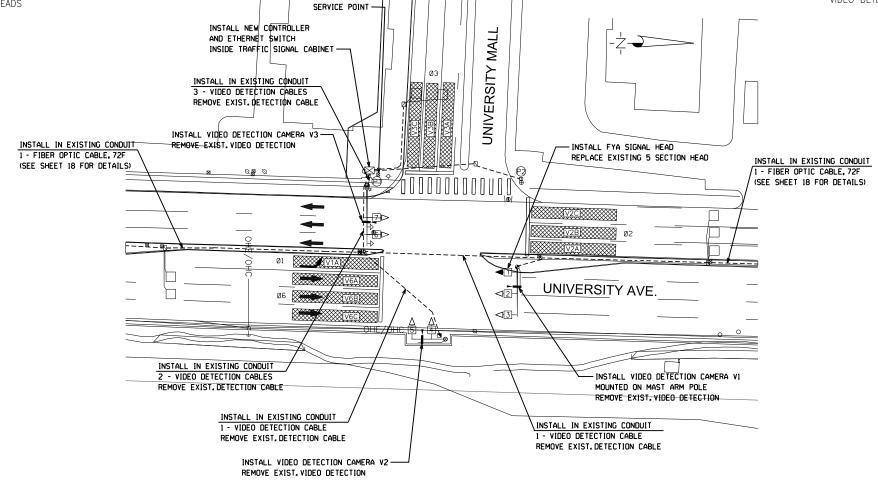
P1, P2

PHASING DIAGRAM





VIDEO DETECTION ZONE



ELECTRICAL

POSTED SPEED LIMIT:

40 MPH NORTH AND SOUTH APPROACH
BUS STOPS LOCATED 250 FEET NORTH OF
UNIVERSITY AVE SOUTHBOUND STOP LINE &
250 FEET SOUTH OF UNIVERSITY AVE
NORTHBOUND STOP LINE
NO RAILROAD TRACKS
FIBER INTERCONNECTIONS
NO FIRE STATION
NO PARKING

NO SIGHT DISTANCE RESTRICTIONS.

DETE	ECTOR SPACING CHA	ART
UNIVERSITY AVE.		
POSTED SPEED	DISTANCE FRO	OM STOP LINE
POSTED SPEED	LEAD LOOP	LAG LOOP
40 MPH	NONE	60'
UNIVERSITY MALL		
POSTED SPEED	DISTANCE FRO	OM STOP LINE
POSTED SPEED	LEAD LOOP	LAG LOOP
10 MPH	NONE	60'





CITY OF LITTLE ROCK
DEPARTMENT OF PUBLIC WORKS
TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE	DAT	Ε		JOB NO.	
			1" = 30'	1:	2/14/	17		
			DRAWN BY		CHECKE) BY		
			TJC		MK	0		
			APPROVED BY		5	SHEET	<u>57</u>	

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		58	80
				JOB	NO.	061468		

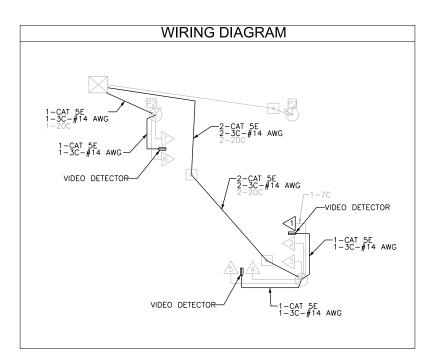
UNIVERSITY AVE. AT UNIVERSITY MALL



			DET	FCTOR	SYSTE	M DESC	CRIPTION	1			
DLILAC	KI COLINITY LINUVEDCITY	N/E /UNIV		11	IPUTS	ВҮ	PROG	RAM ASS	IGNMENTS		
DET. ID#	KI COUNTY - UNIVERSITY A	TYPE	DET.	CAB	AMP CHN#	CON.		SYSTEM DET.	MASTER SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V3A	EB LT TURN LANES	LOCAL	5			V5	3			CAMERA V2	23"
V3B	EB LT TURN LANES	LOCAL	6			V6	3			CAMERA V2	23"
V3C	EB RT TURN LANES	LOCAL	7			٧7	3			CAMERA V2	23"
V6A	NB THRU LANE	LOCAL	8			V8	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V9	6			CAMERA V1	23"
V6C	NB THRU LANE	LOCAL	10			V10	6			CAMERA V1	23"

- V = Vehicle input
- D = System or Auxiliary input
- P = Pedestrian input

Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.



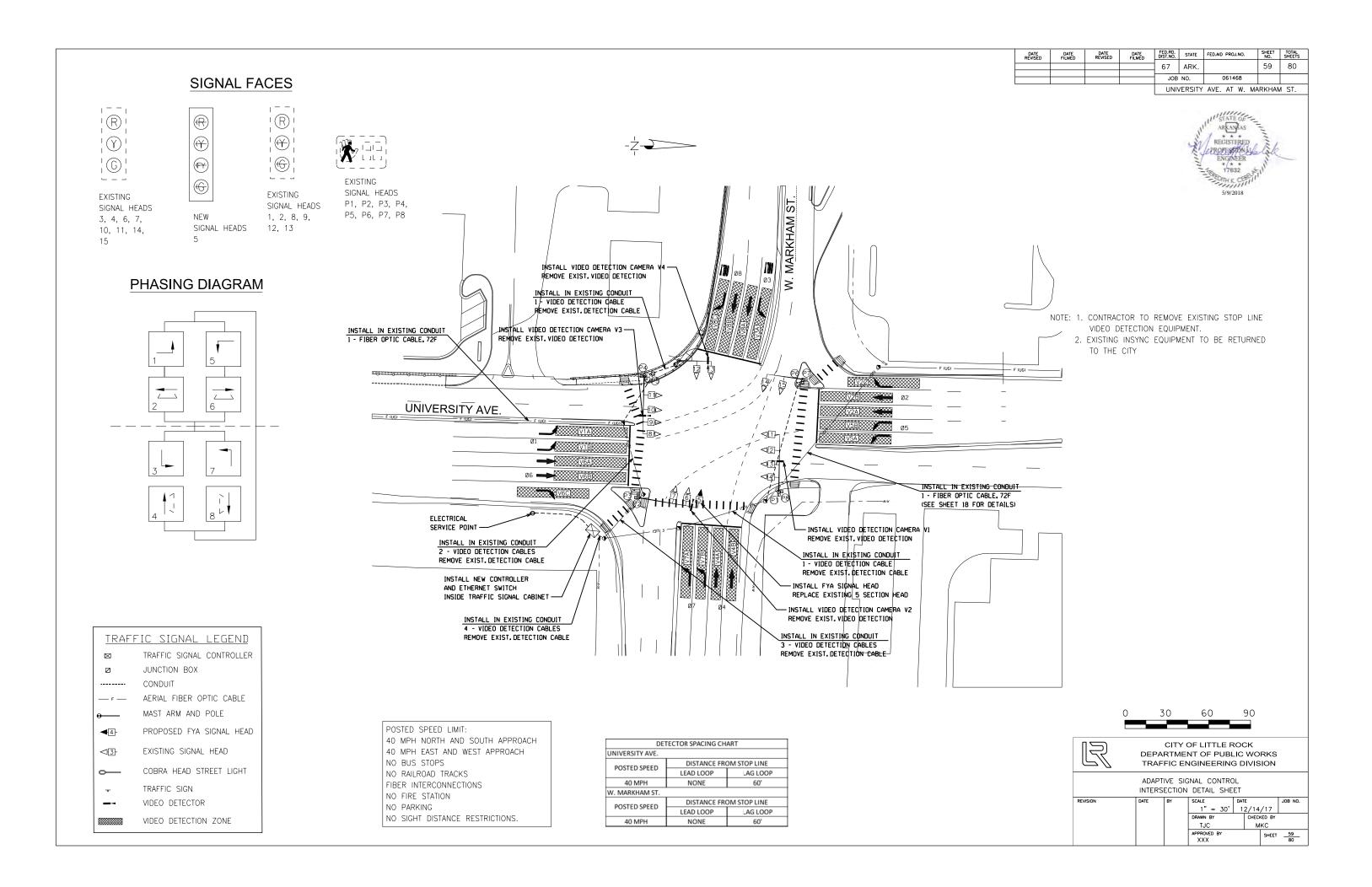
							UNI	VERSITY A	VE AND UN	IVERSITY N	/ALL						
SIGNAL							INTERVAL (CHART FOR	NORMAL	OPERATION	١						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1			G <-	***			FY<-	***			R	R					R
2 G ** G ** R R													R				
3 G ** G ** R R													R				
4 R R R G Y													R				
5			R	R			R	R			G	Υ					R
6			R	R			G	**			R	R					R
7			R	R			G	**			R	R					R
P1			W	FDW			W	FDW			DW	DW					
P2			W	FDW			W	FDW			DW	DW					
* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE ** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE																	
*** DENOTES FLASHING YELLOW ARROW OF YELLOW ARROW DEPENDING ON THE NEXT PHASE																	



CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE	DATE		JOB NO.
			N.T.S.	12/14	/17	
			DRAWN BY	CHEC	KED BY	
			TJC MI		KC	
			APPROVED BY XXX		SHEET	<u>58</u> 80



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		60	80
				JOB	NO.	061468		

UNIVERSITY AVE. AT W. MARKHAM ST.

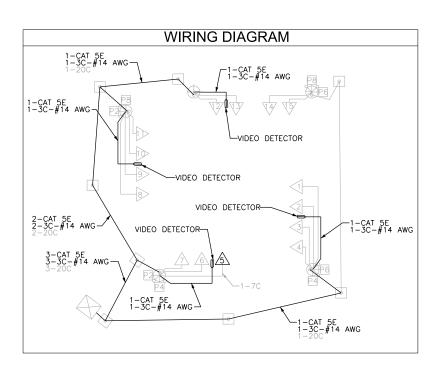


			DE	FECTOR	R SYSTE	M DES	CRIPTION	1			
				11	NPUTS I	ВҮ	PROG	RAM ASS	IGNMENTS		
PULAS	SKI COUNTY - UNIVERSITY	AVE. /MAR	KHAM	S	UPPLIE	R	LO	CAL	MASTER		TUBE
DET. ID#	LCCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V1B	NB LEFT TURN	LOCAL	2			V2	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	4			V4	2			CAMERA V3	23"
V2C	SB RT TURN LANE	LOCAL	5			V5	2			CAMERA V3	23"
V3A	EB LEFT TURN	LOCAL	6			V6	3			CAMERA V2	23"
V4A	WB THRU LANE	LOCAL	7			V7	4			CAMERA V4	23"
V4B	WB THRU LANE	LOCAL	8			V8	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	9			V9	5			CAMERA V3	23"
V5B	SB LEFT TURN	LOCAL	10			V10	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	11			V11	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	12			V12	6			CAMERA V1	23"
V6C	NB RT TURN LANE	LOCAL	13			V13	6			CAMERA V1	23"
V7A	WB LEFT TURN	LOCAL	14			V14	7			CAMERA V4	23"
V7B	WB LEFT TURN	LOCAL	15			V15	7			CAMERA V4	23"
V8A	EB THRU LANE	LOCAL	16			V16	8			CAMERA V2	23"
V8B	EB THRU LANE	LOCAL	17			V17	8			CAMERA V2	23"
V8C	EB RT TURN LANE	LOCAL	18			V18	8			CAMERA V2	23"

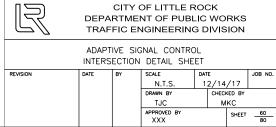
V = Vehicle input

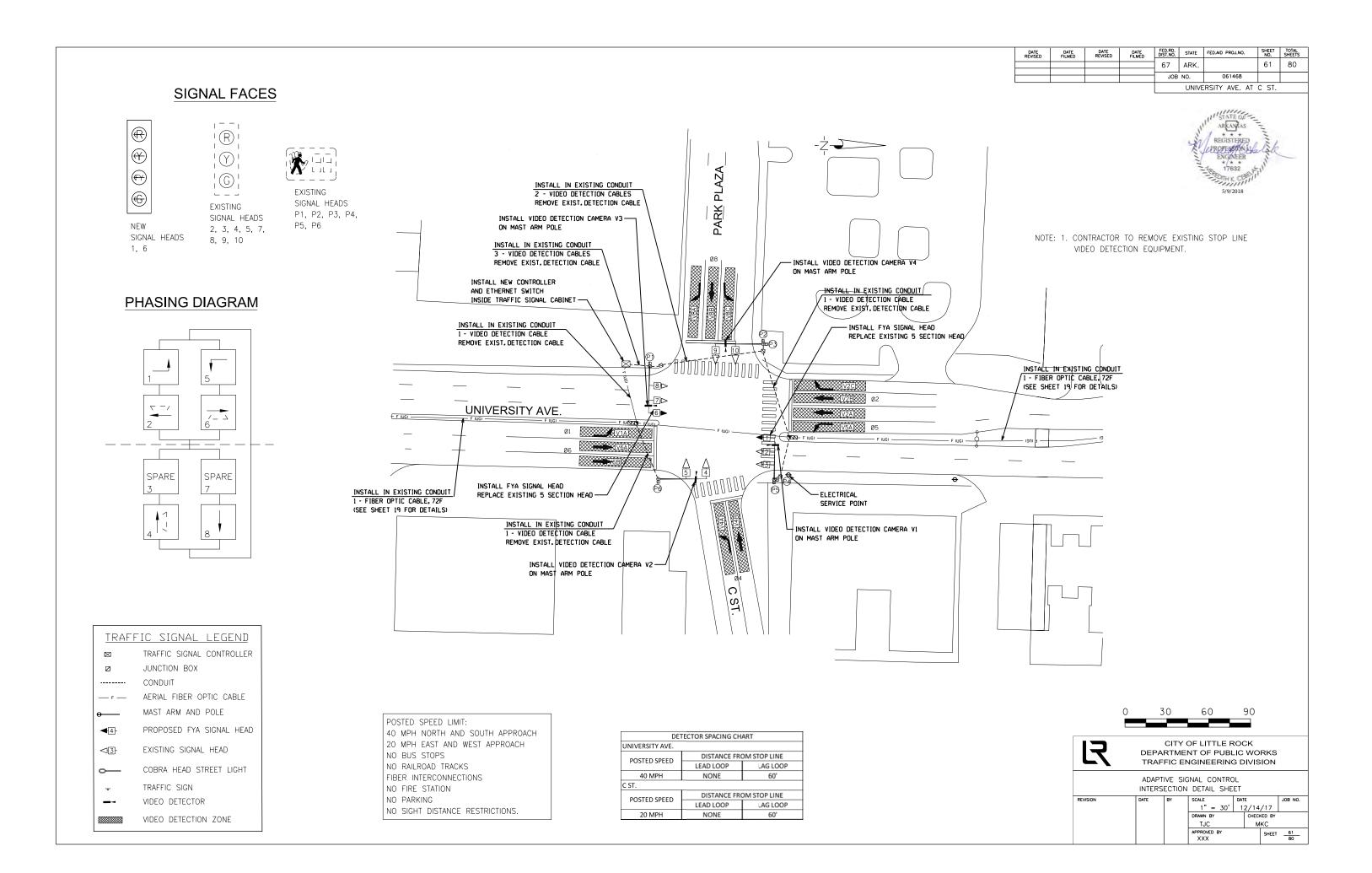
D = System or Auxiliary input

P = Pedestrian input



								NIVERSITY									
SIGNAL								CHART FOR			_						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	R	R	R	R	R	R	R	R	R	R	R	R	R
2	G <-	*	G <-	*	R	R	R	R	R	R	R	R	R	R	R	R	R
3	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
4	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
5	R	R	R	R	R	R	R	R	G <-	*/**	G <-	*/**	R	R	G	*/**	R
6	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
7	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
8	G <-	*	R	R	G <-	*	R	R	R	R	R	R	R	R	R	R	R
9	G <-	*	R	R	G <-	*	R	R	R	R	R	R	R	R	R	R	R
10	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
11	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
12	R	R	R	R	R	R	R	R	G <-	*	R	R	G <-	*	R	R	R
13	R	R	R	R	R	R	R	R	G <-	*	R	R	G <-	*	R	R	
14	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	
15	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	
P1	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P2	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P3	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	w	FDW	DW	DW	W	FDW	
P4	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	W	FDW	
P5	DW	DW	DW	DW	w	FDW	w	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P6	DW	DW	DW	DW	w	FDW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	
P7	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	
P8	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	W	FDW	
*	DENOTES (**		GREEN OR	YELLOW B	ALL DEPEN	DING ON N	EXT PHASE			





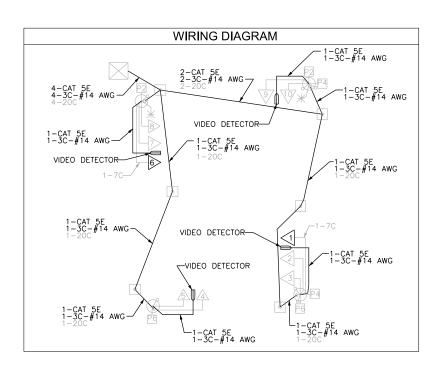
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				67	ARK.		62	80	
				JOB	NO.	061468			
				UNIVERSITY AVE. AT C ST.					



			DET	FCTOR	CVCTE	M DEC	CRIPTION				
			DE		NPUTS				IGNMENTS		1
PU	LASKI COUNTY - UNIVERSI	TY AVE. /C	ST.		UPPLIE			CAL	MASTER		
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB RT TURN LANE	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V4B	WB THRU LANE	LOCAL	6			V6	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	7			V7	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	8			V8	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V9	6			CAMERA V1	23"
V8A	EB RT TURN LANE	LOCAL	11			V10	8			CAMERA V2	23"
V8B	EB THRU LANE	LOCAL	12			V11	8			CAMERA V2	23"
V8C	EB RT TURN LANE	LOCAL	12			V12	8			CAMERA V2	23"

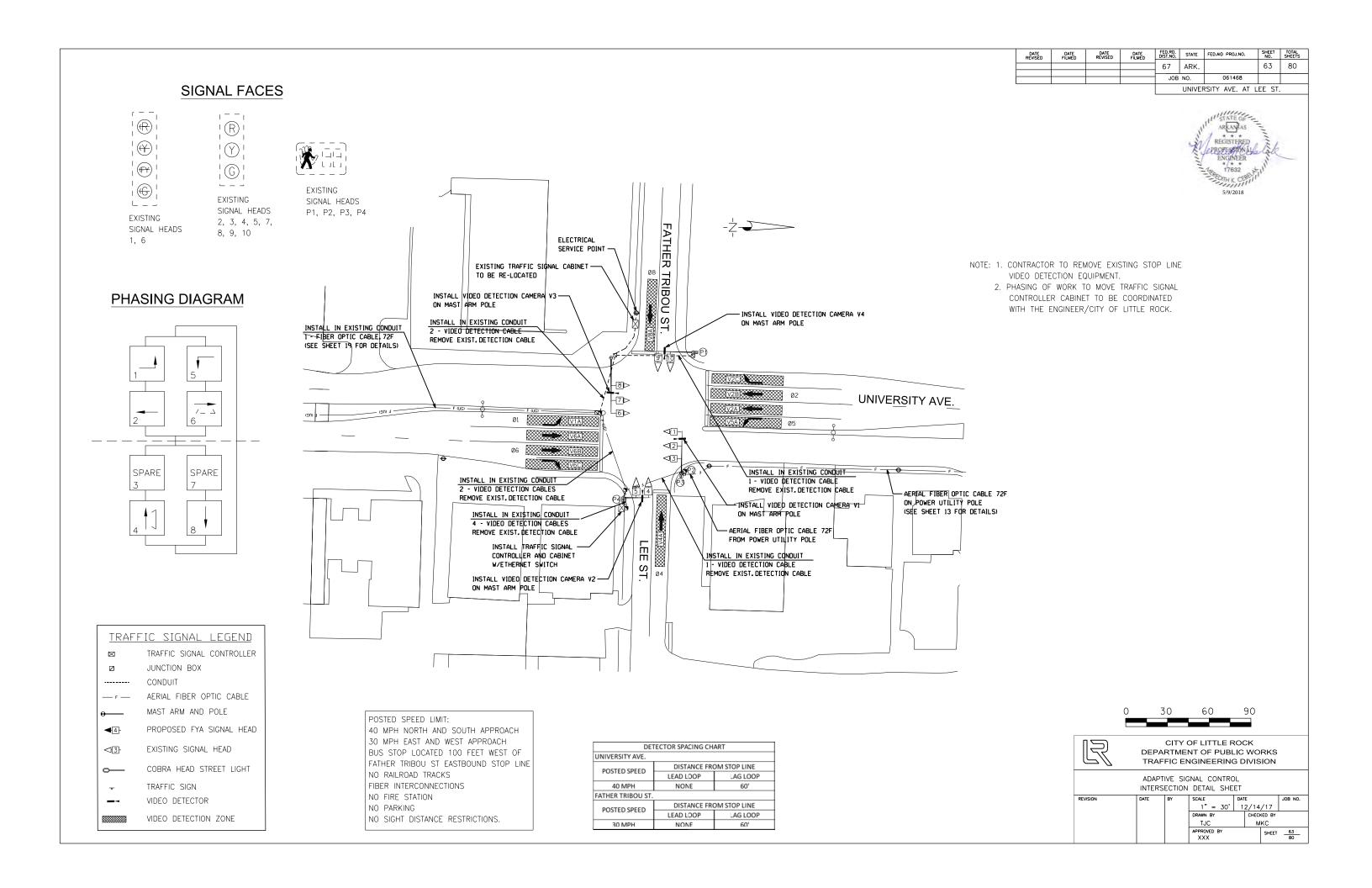
D = System or Auxiliary input

P = Pedestrian input



SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION	ı						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*/**	FY<-	***	FY<-	***							R	R	R
2	R	R	G	**	R	R	G	**							R	R	R
3	R	R	G	**	R	R	G	**							R	R	R
4	R	R	R	R	R	R	R	R							G	**	R
5	R	R	R	R	R	R	R	R							G	**	R
6	G <-	*	FY<-	***	G <-	*	FY<-	***							R	R	R
7	R	R	R	R	G	**	G	**							R	R	R
8	R	R	R	R	G	**	G	**							R	R	R
9	R	R	R	R	R	R	R	R							G	**	R
10	R	R	R	R	R	R	R	R							G	**	R
P1	DW	DW	DW	DW	W	FDW	W	FDW							DW	DW	
P2	DW	DW	DW	DW	W	FDW	W	FDW							DW	DW	
P3	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P4	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P5	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P6	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	

LR	DEPA	RTME	OF LITTLE F NT OF PUBL NGINEERING	_IC	wo	–					
			NAL CONTRO DETAIL SHE	_							
REVISION	DATE	BY	SCALE	DAT	Έ		JOB N				
			N.T.S.	1	2/14	/17					
			DRAWN BY		CHEC	KED BY					
	TJC MKC										
			APPROVED BY XXX			SHEET	62 80				



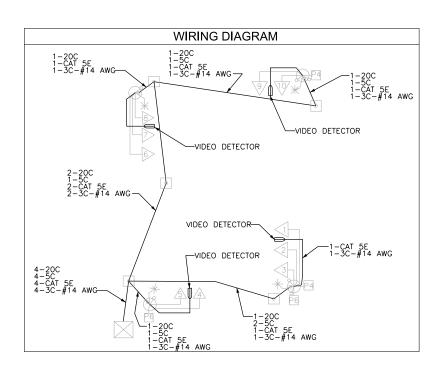
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		64	80
				JOB	NO.	061468		
					UNIVER	RSITY AVE. AT L	EE ST.	



			DET	ECTOR	SYSTE	M DES	CRIPTION	۱			
				11	NPUTS	BY	PROG	GRAM ASS	IGNMENTS		
PULASKI	COUNTY - UNIVERSITY AV	E. /FATHER	TRIBOU	S	UPPLIE	R	LO	CAL	MASTER		TUBE
	T. ID# LOCATION DIRECTION TYPE DET			САВ	AMP	CON.		SYSTEM	SYSTEM	COMMENTS	LENGTHS
DET. ID#	LOCATION DIRECTION	TYPE	DET.		CHN#		INP# PHS SYSTE		DETECTION		LEINGIIIS
				I KIVI#	CHIV#	IINP#		DET.	NUMBERS		
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB RT TURN LANE	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	7			V6	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	8			V7	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V8	6			CAMERA V1	23"
V6C	NB RIGHT TURN	LOCAL	10			V9	6			CAMERA V1	23"
V8A	EB THRU LANE	LOCAL	6			V10	8			CAMERA V2	23"

D = System or Auxiliary input

P = Pedestrian input



SIGNAL							INTERVAL		NORMAL (_	ı						F	LASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR		SEQ
1	G <-	*	G <-	*/**	FY<-	***	FY<-	***							R	R		R
2	R	R	G	**	R	R	G	**							R	R		R
3	R	R	G	**	R	R	G	**							R	R		R
4	R	R	R	R	R	R	R	R							G	**		R
5	R	R	R	R	R	R	R	R							G	**		R
6	G <-	*	FY<-	***	G <-	*	FY<-	***							R	R		R
7	R	R	R	R	G	**	G	**							R	R		R
8	R	R	R	R	G	**	G	**							R	R		R
9	R	R	R	R	R	R	R	R							G	**		R
10	R	R	R	R	R	R	R	R							G	**		R
P1	DW	DW	DW	DW	DW	DW	DW	DW							w	FDW		
P2	DW	DW	DW	DW	DW	DW	DW	DW							w	FDW		
P3	DW	DW	w	FDW	DW	DW	W	FDW							DW	DW		
P4	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW		
				RROW DEPE				** THF NFXT F		GREEN OR	YELLOW B.	ALL DEPENI	DING ON N	EXT PHASE			·	



DATE FILMED FED.RD. STATE FED.AID PROJ.NO. DATE FILMED DATE REVISED DATE REVISED 67 ARK. 65 80 JOB NO. UNIVERSITY AVE. AT H ST.

SIGNAL FACES



NEW

1, 6

SIGNAL HEADS

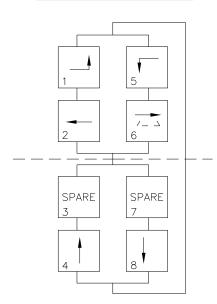


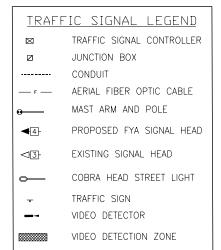


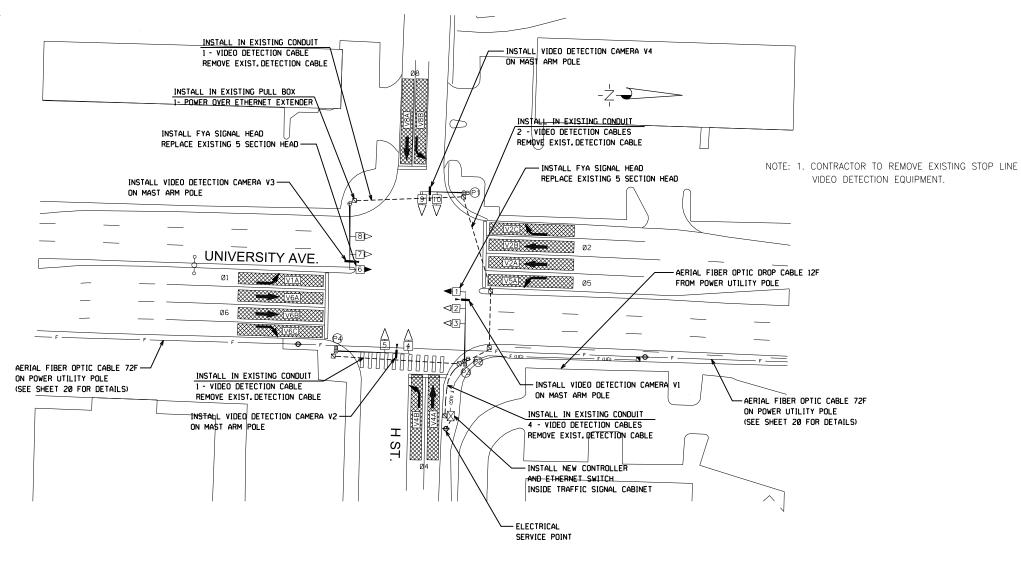
EXISTING SIGNAL HEADS P1, P2, P3, P4

EXISTING SIGNAL HEADS 2, 3, 4, 5, 7, 8, 9, 10

PHASING DIAGRAM







POSTED SPEED LIMIT: 40 MPH NORTH AND SOUTH APPROACH 25 MPH EAST AND WEST APPROACH BUS STOP LOCATED 100 FEET SOUTH OF UNIVERSITY AVE NORTHBOUND STOP LINE NO RAILROAD TRACKS FIBER INTERCONNECTIONS NO FIRE STATION NO PARKING NO SIGHT DISTANCE RESTRICTIONS.

DET	TECTOR SPACING CH	ART	
UNIVERSITY AVE.			
POSTED SPEED	DISTANCE FRO	OM STOP LINE	
POSTED SPEED	LEAD LOOP	LAG LOOP	
40 MPH	NONE	60'	
H ST.			
POSTED SPEED	DISTANCE FRO	OM STOP LINE	
POSTED SPEED	LEAD LOOP	LAG LOOP	
25 MPH	NONE	60'	





CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE		DAT	Έ		JOB N	0.
			1" =	= 30'	1	2/14	/17		
			DRAWN BY	Y		CHECH	KED BY		
			TJC			М	KC		
			APPROVED	BY			SHEET	65	
			YYY					80	

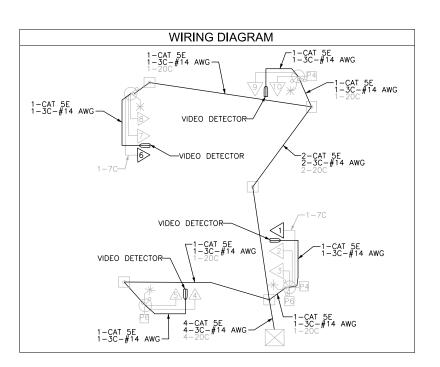
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				67	ARK.		66	80	
				JOB	NO.	061468			
				UNIVERSITY AVE. AT H ST.					



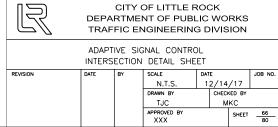
			DE	TECTOR	SYSTE	M DESC	CRIPTION	1			_
DII	LASKI COLINITY LINUVERSI	TV AVE /II	ст		IPUTS				IGNMENTS		
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB	AMP CHN#	CON.	PHS	SYSTEM DET.	MASTER SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB RIGHT TURN	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V4B	WB LT TURN LANE	LOCAL	6			V6	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	7			V7	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	8			V8	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V9	6			CAMERA V1	23"
V6C	NB RIGHT TURN	LOCAL	10			V10	6			CAMERA V1	23"
V8A	EB THRU LANE	LOCAL	11			V11	8			CAMERA V2	23"
V8B	EB LT TURN LANE	LOCAL	12			V12	8			CAMERA V2	23"

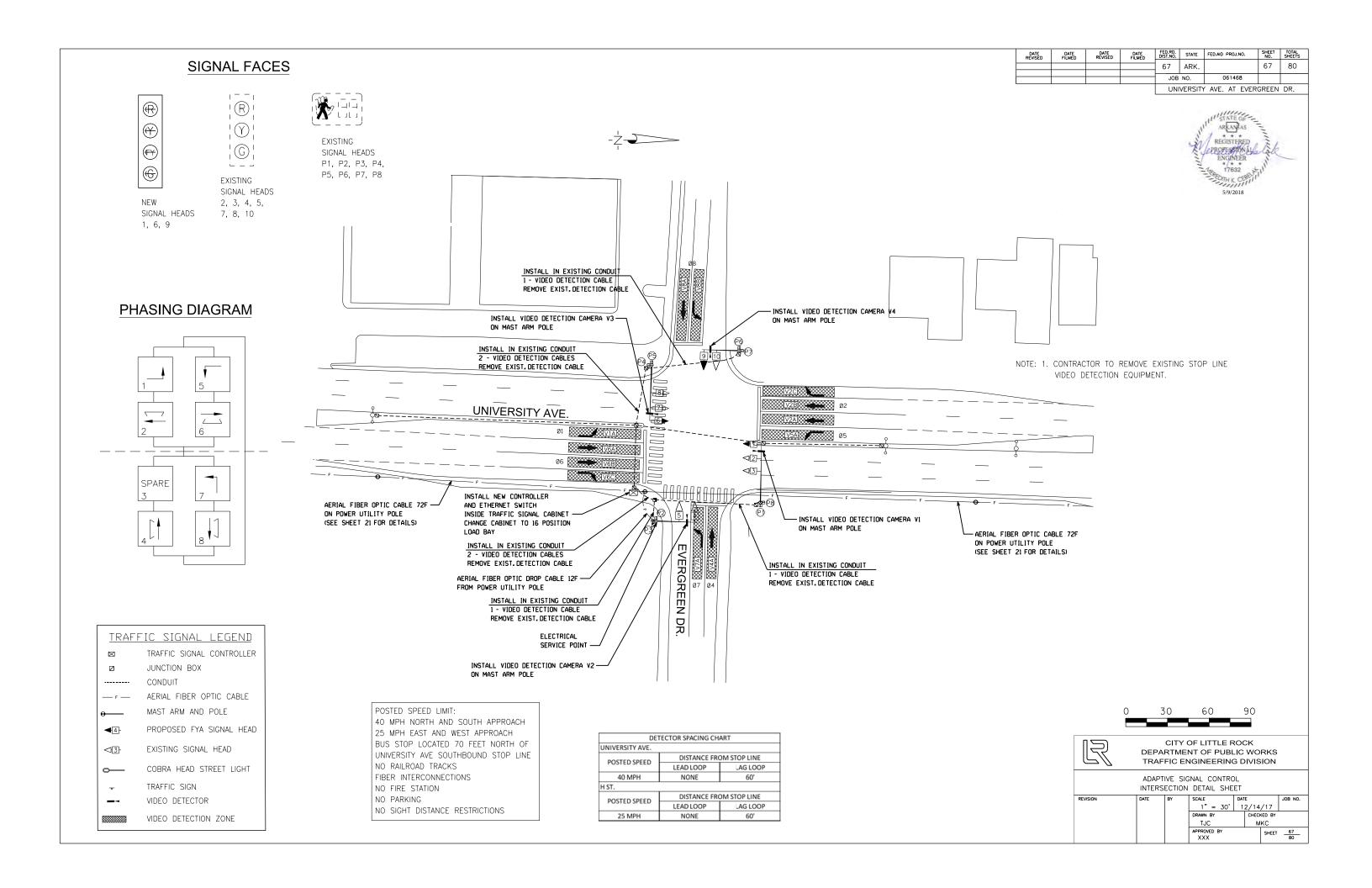
D = System or Auxiliary input

P = Pedestrian input



								UNIVER	SITY AVE AI	ND H ST.							
SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION	١						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*	FY<-	***	FY<-	***							R	R	R
2	R	R	G	**	R	R	G	**							R	R	R
3	R	R	G	**	R	R	G	**							R	R	R
4	R	R	R	R	R	R	R	R							G	**	R
5	R	R	R	R	R	R	R	R							G	**	R
6	G <-	*	FY<-	***	G <-	*	FY<-	***							R	R	R
7	R	R	R	R	G	**	G	**							R	R	R
8	R	R	R	R	G	**	G	**							R	R	R
9	R	R	R	R	R	R	R	R							G	**	R
10	R	R	R	R	R	R	R	R							G	**	R
P1	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P2	DW	DW	DW	DW	DW	DW	DW	DW							w	FDW	
P3	DW	DW	w	FDW	DW	DW	w	FDW							DW	DW	
P4	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
*	DENOTES		YELLOW AF					** THE NEXT I		GREEN OR	YELLOW B	ALL DEPENI	DING ON N	EXT PHASE		•	•





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		68	80
				JOB	NO.	061468		

UNIVERSITY AVE. AT EVERGREEN DR.

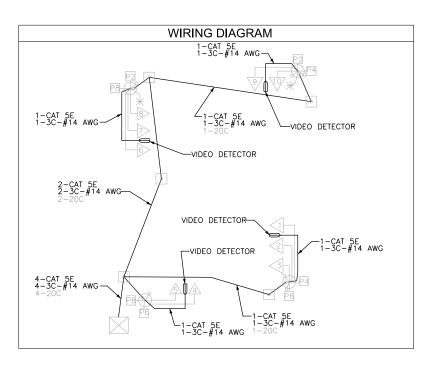


			DE.	TECTOR	SYSTE	M DESC	CRIPTION	1			
				IN.	IPUTS I	BY	PROG	SRAM ASS	IGNMENTS		
PULAS	KI COUNTY - UNIVERSITY	AVE. /EVER	GREEN	S	UPPLIE	R	LOCAL		MASTER		
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V2A	SB THRU LANES	LOCAL	2			V2	2			CAMERA V3	23"
V2B	SB THRU LANES	LOCAL	3			V3	2			CAMERA V3	23"
V2C	SB RIGHT TURN	LOCAL	4			V4	2			CAMERA V3	23"
V4A	WB THRU LANE	LOCAL	5			V5	4			CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	7			V6	5			CAMERA V3	23"
V6A	NB THRU LANE	LOCAL	8			V7	6			CAMERA V1	23"
V6B	NB THRU LANE	LOCAL	9			V8	6			CAMERA V1	23"
V6C	NB RIGHT TURN	LOCAL	10			V9	6			CAMERA V1	23"
V7A	WB LT TURN LANE	LOCAL	11			V10	7			CAMERA V4	23"
V8A	EB THRU LANE	LOCAL	12			V11	8			CAMERA V2	23"
V8B	EB LT TURN LANE	LOCAL	13			V12	8			CAMERA V2	23"

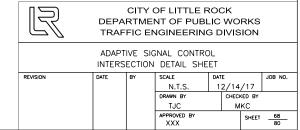
V = Vehicle input

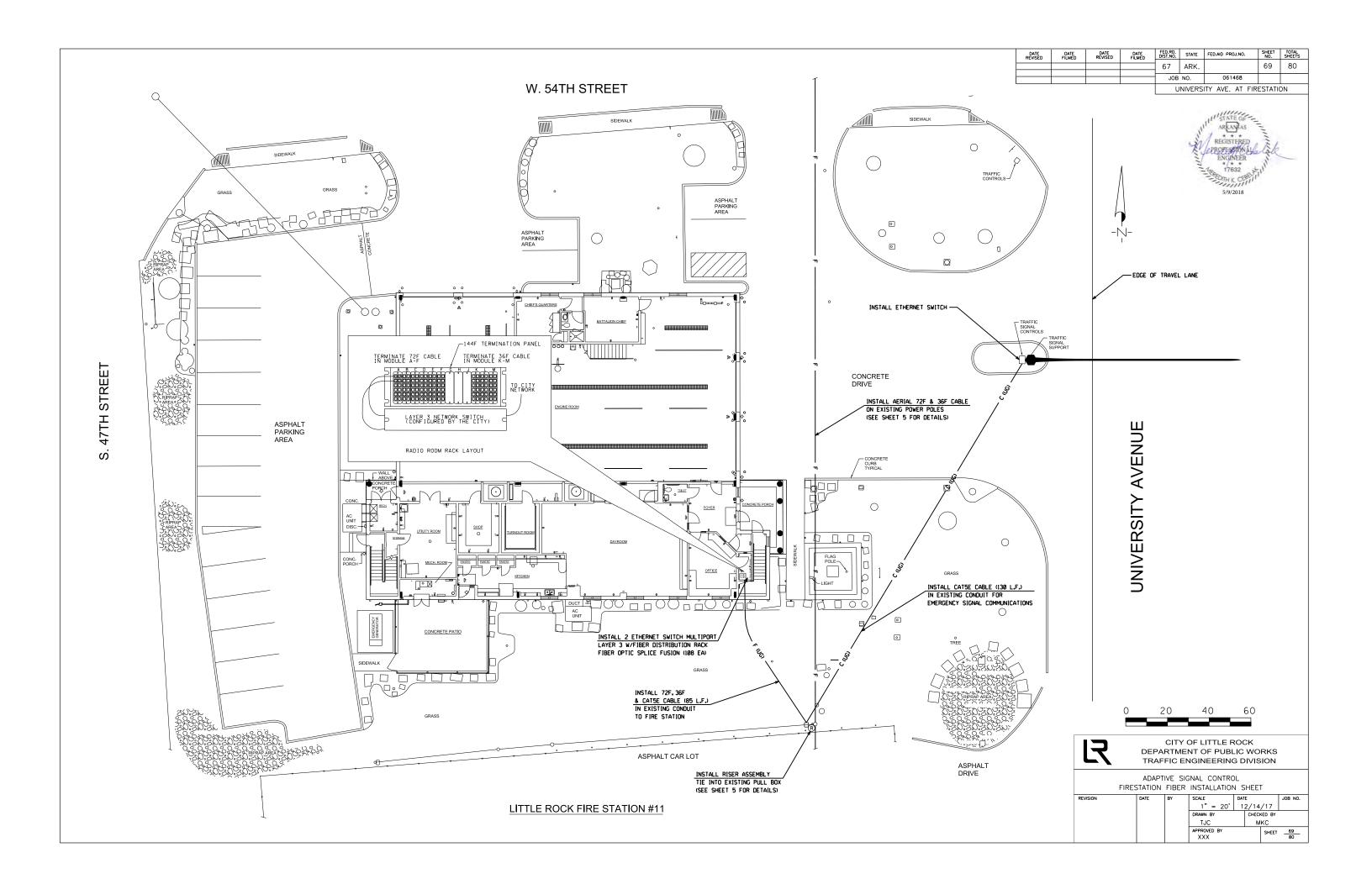
D = System or Auxiliary input

P = Pedestrian input



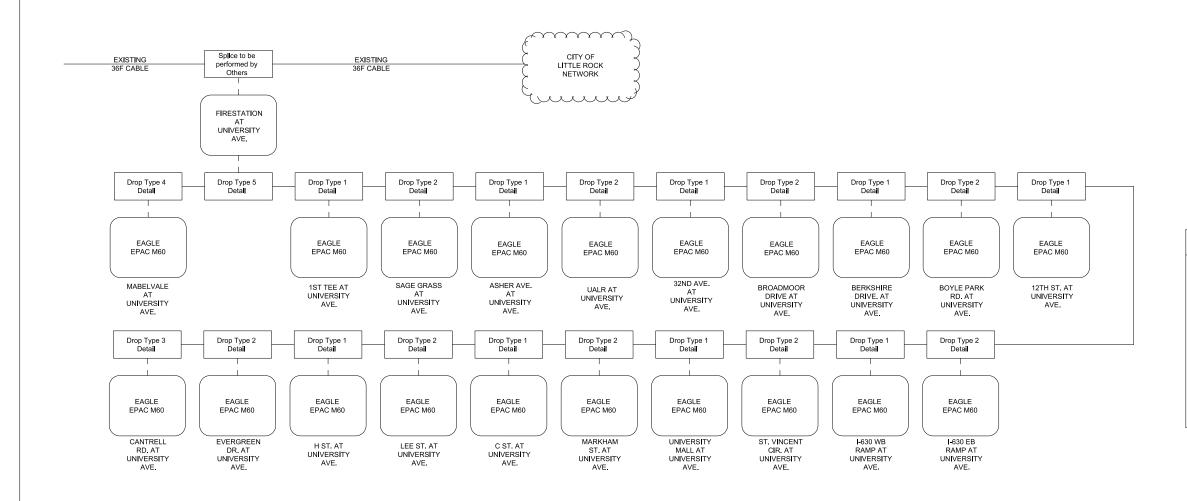
CICNIAL		_							VE AND EV								FLASH
SIGNAL	405	CLD	100	CLD	20.5				NORMAL C			CLD	40.7	CLD	400	I GLD	
FACE	1&5	CLR	1&6	CLR *	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-		R	R	R	R					R	R	R	R	R
2	R	R	G	**	R	R	G	**					R	R	R	R	R
3	R	R	G	**	R	R	G	**					R	R	R	R	R
4	R	R	R	R	R	R	R	R					R	R	G	**	R
5	R	R	R	R	R	R	R	R					R	R	G	**	R
6	G <-	*	R	R	G <-	*	R	R					R	R	R	R	R
7	R	R	R	R	G	**	G	**					R	R	R	R	R
8	R	R	R	R	G	**	G	**					R	R	R	R	R
9	R	R	R	R	R	R	R	R					G <-	*	G	**	R
10	R	R	R	R	R	R	R	R					G	**	G	**	R
P1	DW	DW	W	FDW	DW	DW	w	FDW					DW	DW	DW	DW	
P2	DW	DW	W	FDW	DW	DW	w	FDW					DW	DW	DW	DW	
Р3	DW	DW	DW	DW	DW	DW	DW	DW					DW	DW	W	FDW	
P4	DW	DW	DW	DW	DW	DW	DW	DW					DW	DW	W	FDW	
P5	DW	DW	DW	DW	W	FDW	w	FDW					DW	DW	DW	DW	
P6	DW	DW	DW	DW	W	FDW	w	FDW					DW	DW	DW	DW	
P7	DW	DW	DW	DW	DW	DW	DW	DW					W	FDW	W	FDW	
P8	DW	DW	DW	DW	DW	DW	DW	DW					W	FDW	W	FDW	
ro	DVV	DVV	DVV	DVV	DVV	DW	DW	DVV					VV	FDW	VV	FDW	
*	DEMOTES	CDCEN CO.	VELLOW AS	יייייייייייייייייייייייייייייייייייייי	NIDINIC ON	NEVT DITT		**	DEMOTES	CDEEN CO	VELLOW D	L DEDEN	DINIC ON N	EVE DUACE			
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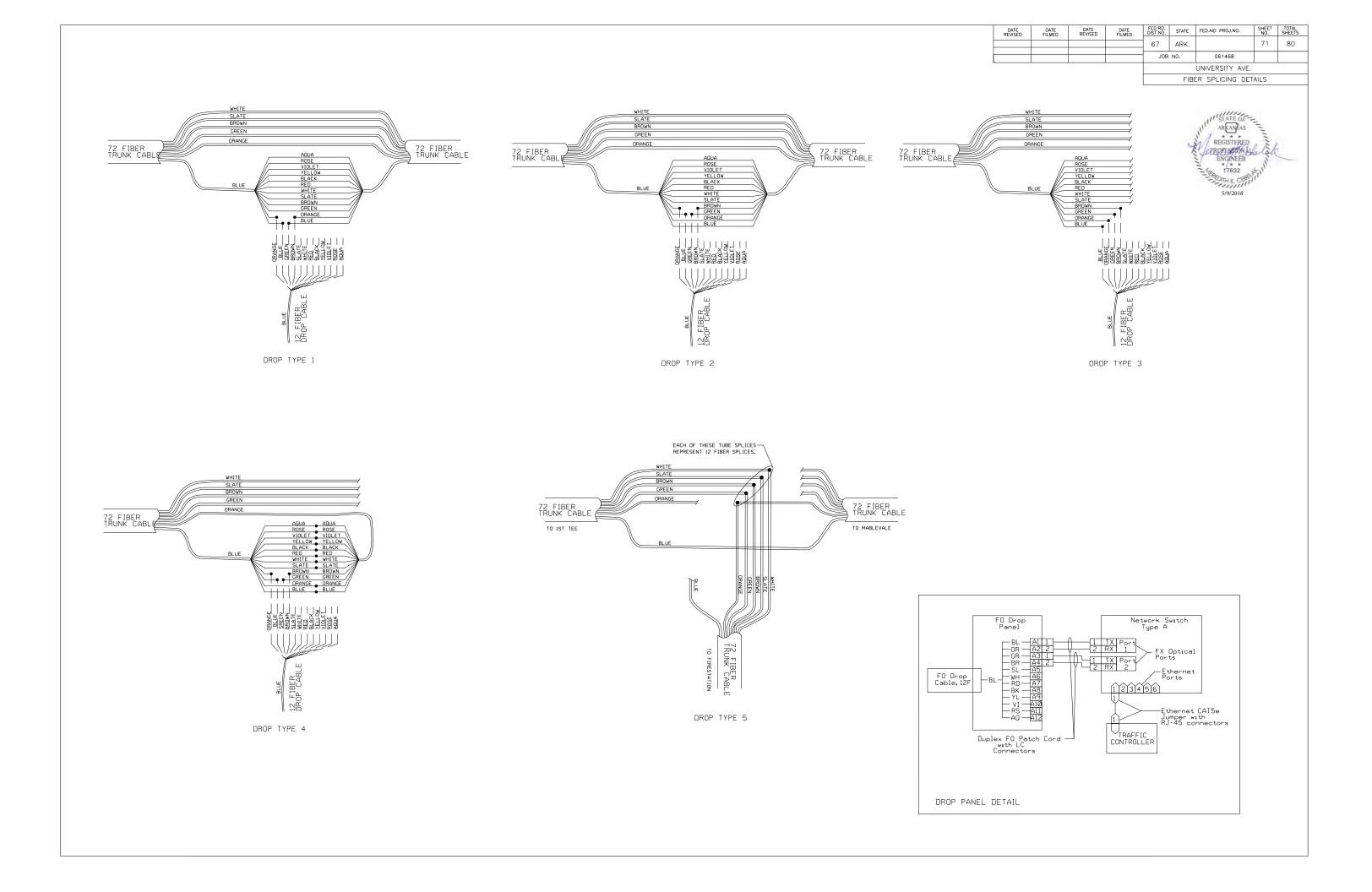


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		70	80		
				JOB	NO.	061468				
				UNIVERSITY AVE.						
				FIBER SPLICING DETAILS						

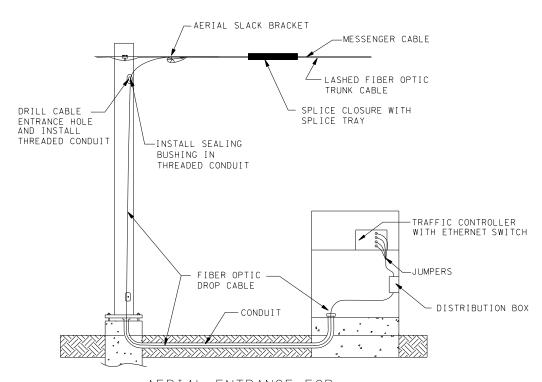




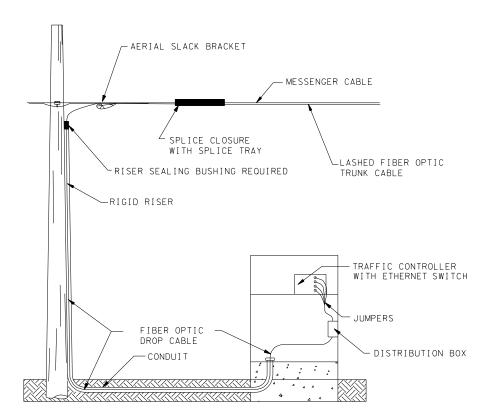
Legend							
Trunk Cable							
Drop Cable							
Splice Boot							
Control Box							



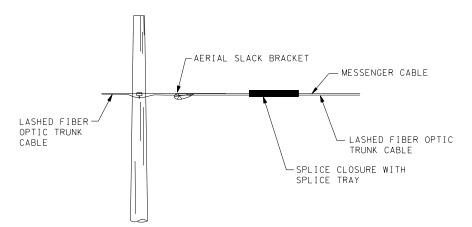
	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
					67	ARK.		72	80		
ı					JOB	NO.	061468				
•					UNIVERSITY AVE.						
					FIBER INSTALLATION DETAILS 1						



AERIAL ENTRANCE FOR STEEL POLE INTO BASE MOUNTED CABINET (EXTERNAL SPLICE)



AERIAL ENTRANCE FOR EMBEDDED STEEL, CONCRETE, OR WOOD POLE INTO BASE MOUNTED CABINET (EXTERNAL SPLICE)



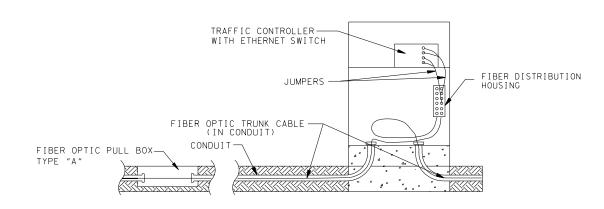
TYPICAL OVERHEAD SPLICE

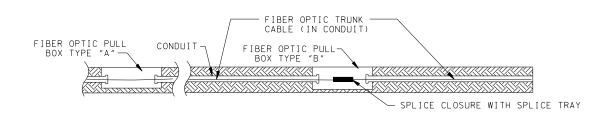


- (A) CONDUIT FOR FIBER OPTIC CABLE REQUIRED TO UTILIZE LARGE RADIUS BENDS (MINIMUM RADIUS 6 INCHES) NO ELBOW JOINTS ALLOWED.
- B ALL SPLICE CLOSURES TO CONTAIN SUFFICIENT SLACK FIBER TO PERFORM SPLICE ON GROUND IN MAINTENANCE VEHICLE (MINIMUM 25 FEET OF SLACK FOR EACH DROP CABLE).
- © ALL SPLICES TO BE FUSION UNLESS OTHERWISE NOTED.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		73	80		
				JOB	NO.	061468				
				UNIVERSITY AVE.						
				FIBER INSTALLATION DETAILS 2						





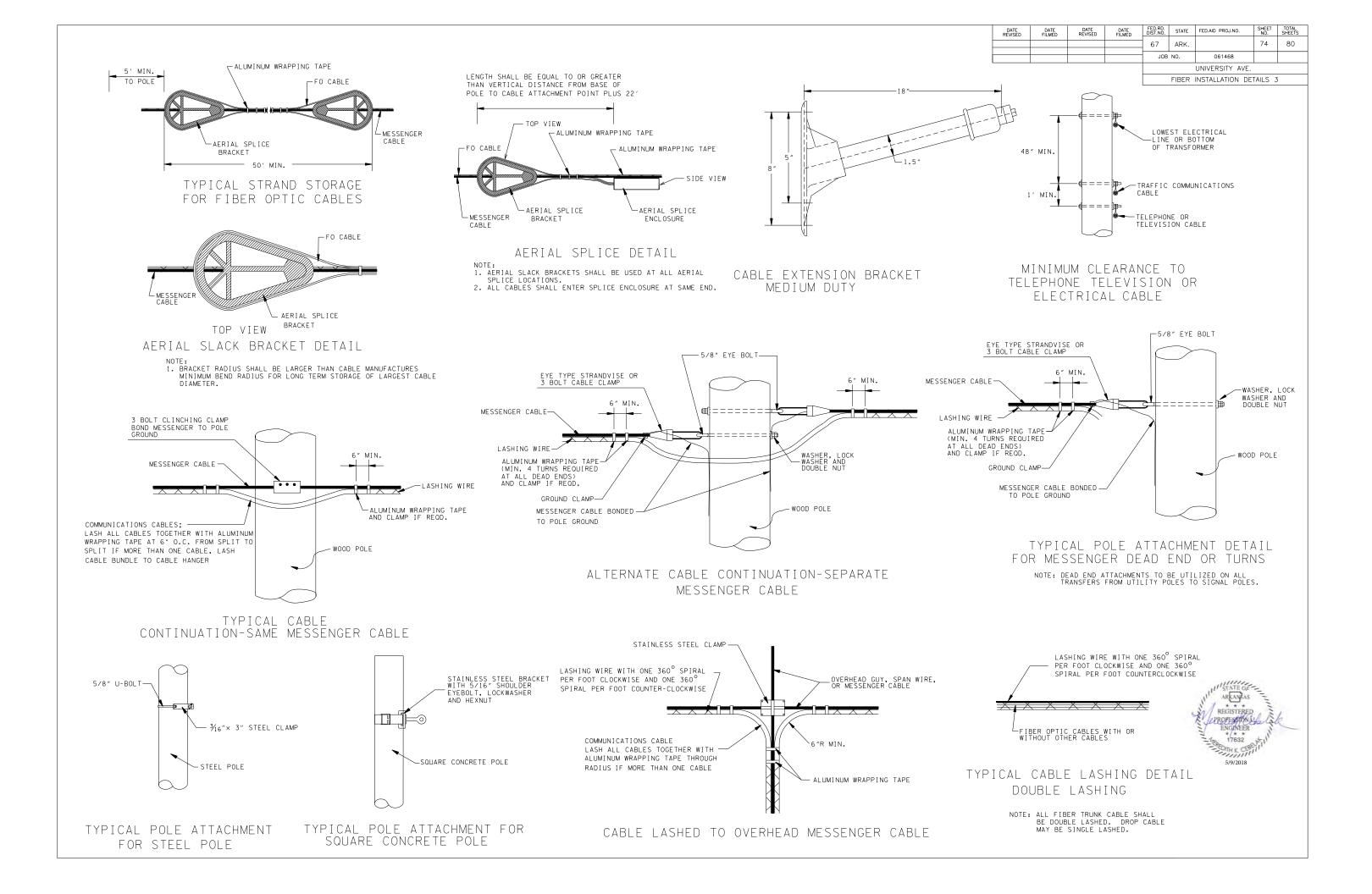


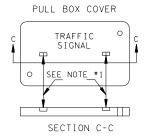
TYPICAL UNDERGROUND SPLICE

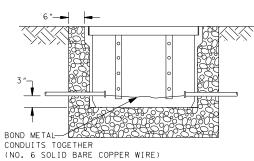
UNDERGROUND ENTRANCE INTO BASE MOUNTED CABINET (INTERNAL SPLICE-MAX. 12 FIBER SPLICES)

GENERAL NOTES

- (A) CONDUIT FOR FIBER OPTIC CABLE REQUIRED TO UTILIZE LARGE RADIUS BENDS (MINIMUM RADIUS 6 INCHES) NO ELBOW JOINTS ALLOWED.
- (B) ALL UNDERGROUND SPLICES IN PULL BOXES TO CONTAIN SUFFICIENT SLACK FIBER TO PERFORM SPLICE ON MAINTENANCE VEHICLE (MINIMUM 25 FEET OF SLACK FOR EACH CABLE).
- © ALL CABINET SPLICES TO CONTAIN SUFFICIENT SLACKTO PERFORM SPLICE IN MAINTENANCE VEHICLE (MINIMUM OF 25 FEET OF SLACK FOR EACH CABLE).
- ① ALL SPLICES TO BE FUSION UNLESS OTHERWISE NOTED.



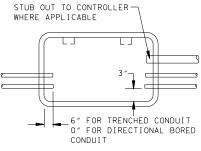




FIBER OPTIC PULLBOX MINIMUM DIMENSIONS

	WITH THOU	J I WILLY	10110
TYPE	LENGTH	WIDTH	DEPTH
А	36″	26″	32 ″
В	49″	32″	36 "

TYPE "A" FIBER OPTIC PULLBOXES ARE TO BE USED WHEN NO SPLICING IS REQUIRED IN THE PULLBOX. TYPE "B" FIBER OPTIC PULLBOXES ARE TO BE USED WHEN SPLICING IS REQUIRED IN THE PULLBOX.



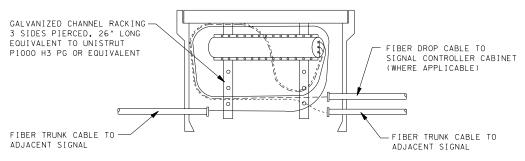
TOP VIEW

FIBER OPTIC PULLBOX DETAILS (TYPICAL)

1. NOTCHES SHALL BE PROVIDED FOR REMOVING THE COVER.

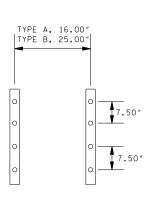
SIDE VIEW

- 2. COVER SHALL BOLT DOWN.
- 3. THE MESSAGE "TRAFFIC SIGNAL" IS TO BE INSCRIBED ON TOP OF THE COVER.
- 4. ASSEMBLY SHALL BE RATED FOR A MINIMUM STATIC LOAD OF 15,000 | bs OVER A 10"X10" AREA AND PASS MINIMUM STATIC TEST LOAD OF 22,000 lbs.
- 5. CONDUIT TO USE LARGE RADIUS BENDS.
- 6. TYPE B COVER TO BE 2 PIECES.
- 7. INSTALL CONDUIT OPPOSITE OF CHANNEL RACKING.
- 8. INSTALL INCOMING CONDUIT BOTH VERTICALLY AND HORIZONTALLY PARALLEL TO CORRESPONDING EXITING CONDUIT.
- 9. GROUT COMPLETELY AROUND ALL CONDUIT ENTRIES TO THE FULL THICKNESS OF THE BOX WALL.
- 10. ALL CONDUIT SHALL ENTER THE PULL BOX LEVEL, STRAIGHT AND PERPENDICULAR TO THE WALL OF THE PULL BOX.
- 11. CONDUIT SHALL SLOPE AWAY FROM SIDES OF PULL BOX TO BORE OR TRENCH GRADE.



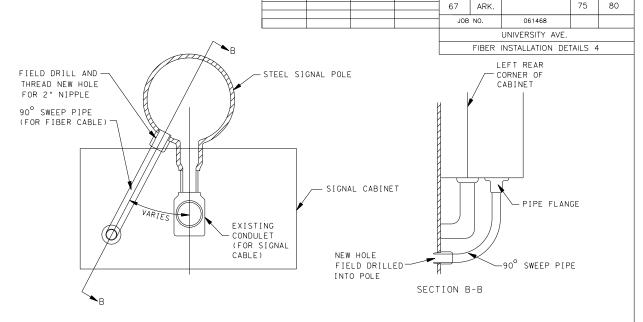
FIBER OPTIC SPLICE CLOSURE TYPE B PULL BOX

- 1. CABLES SHALL BE DRESSED IN A COMMON BUNDLE EVERY 3 FEET WITH UV RESISTANT NYLON CABLE TIES OR ELECTRICAL TAPE.
- 2. SECURE CABLE SLACK AND CLOSURE TO CHANNEL RACKING VIA UV RESISTANT BLACK
- NYLON 120-LB (MIN.) TENSILE STRENGTH CABLE TIES.
 3. MAINTAIN MINIMUM BEND RADIUS (ACCORDING TO MANUFACTURERS SPECIFICATIONS FOR CABLE AT REST) FOR LARGEST CABLE IN BUNDLE.
- 4. MAINTAIN 6 INCHES OF CLEARANCE BETWEEN TOP OF PULL BOX AND CABLE/ CLOSURE.
- 5. ROUTE CABLE EXITING CONDUIT AS TO NOT INTERFERE WITH FUTURE USE OF EMPTY CONDILLT.



CHANNEL RACKING DETAILS

- 1. INSERTS TO BE CENTERED ON ONE WALL OF TYPE A & B BOXES,
- 5.625" FROM THE TOP OF EACH BOX.
 2. TWO PIECE STEEL PIERCED CHANNEL 22" LONG. (UNISTRUT NO. P1000-H3 OR EQUAL) TO BE SUPPLIED WITH EACH BOX. CHANNEL TO BE PIERCED ON THREE SIDES.
- 3. BOLTS TO BE 1/2" x 3/4" LONG STAINLESS STEEL.1/4" SPACERS TO BE PLACED BETWEEN CHANNELS AND WALL OF PULL BOX.
- 4. CHANNEL RACKING TO BE FACTORY INSTALLED.



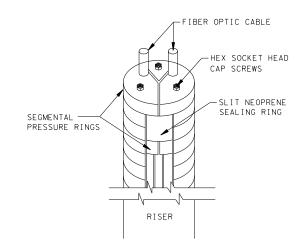
DATE FILMED

DATE REVISED

DETAIL OF NEW CONDUIT SWEEP INTO BOTTOM OF POLE MOUNTED CABINET ON STEEL OR CONCRETE POLE

GENERAL NOTES

- (A) CONDUIT FOR FIBER OPTIC CABLE REQUIRED TO UTILIZE LARGE RADIUS BENDS (MINIMUM RADIUS 6"). NO ELBOW JOINTS ALLOWED.
- (B) FIBER OPTIC CABLE RUNS TO UTILIZE MIN. 1.5" CONDUIT.
- © WHEN EXISTING PULLBOXES ARE TO BE REPLACED BY LARGER FIBER OPTIC PULLBOXES, THE COST OF REMOVAL IS TO BE INCLUDED IN ITEM FOR PULLBOX.
- ① THE COST OF ALL MODIFICATIONS, ADJUSTMENTS, MATERIALS, MOUNTING HARDWARE, ETC. TO BE INCLUDED IN OTHER ITEMS, UNLESS A DIRECT PAY



FED.RD. DIST.NO.

STATE

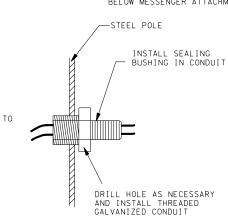
DATE FILMED

DATE REVISED

FED.AID PROJ.NO.

RISER SEALING BUSHING FOR FIBER OPTIC CABLE

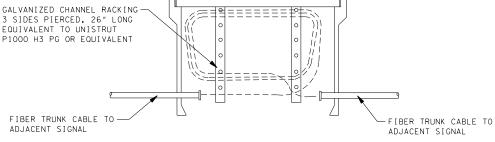
NOTE: TOP OF BUSHING SHALL BE APPROXIMATELY 1 INCH BELOW MESSENGER ATTACHMENT HEIGHT.





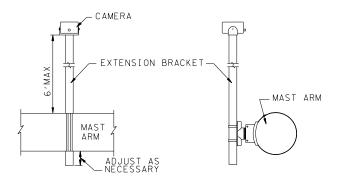
PROFESSION

FIBER ENTRANCE TO EXISTING STEEL POLES



FIBER OPTIC CLOSURE TYPE A PULL BOX

- 1. SECURE CABLE SLACK AND CLOSURE TO CHANNEL RACKING VIA UV RESISTANT BLACK
- NYLON 120-LB (MIN.) TENSILE STRENGTH CABLE TIES.
 2. MAINTAIN MINIMUM BEND RADIUS (ACCORDING TO MANUFACTURERS SPECIFICATIONS FOR CABLE AT REST) FOR LARGEST CABLE IN BUNDLE.
- 3. MAINTAIN 6 INCHES OF CLEARANCE BETWEEN TOP OF PULL BOX AND CABLE/ CLOSURE. 4. ROUTE CABLE EXITING CONDUIT AS TO NOT INTERFERE WITH FUTURE USE OF EMPTY
- 5. CABLE SLACK SHALL NOT BE STORED ON THE FLOOR OF THE PULL BOX.

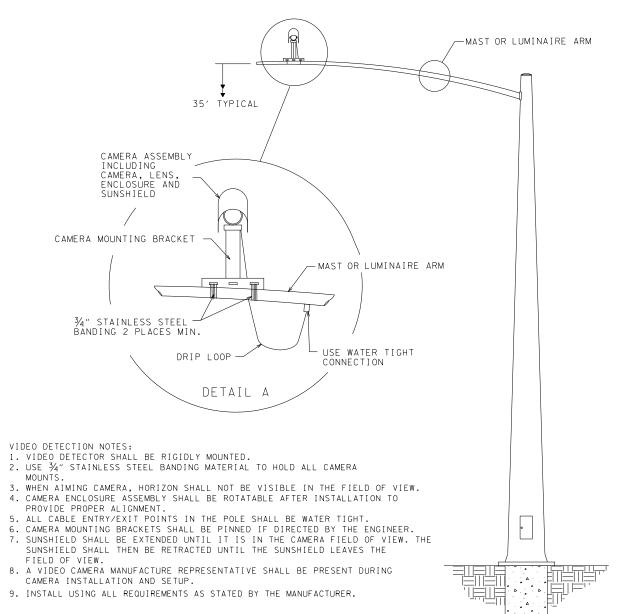


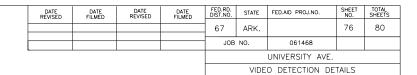
FRONT VIEW

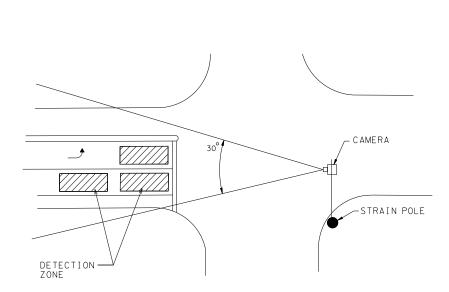
SIDE VIEW

ALTERNATE CAMERA MOUNTING DETAIL (MAST ARM)

(TO EXTEND CAMERA HEIGHT ABOVE MAST ARM)







TYPICAL VIDEO DETECTOR PLACEMENT



TYPICAL VIDEO DETECTION DETAIL

NOTES:
PEDESTRIAN AND TRAFFIC SIGNAL HEAD SIGNS:
EACH ITEM "TRAFFIC SIGNAL HEAD (4 SEC., I-WAY)"
SHALL INCLUDE A SPECIAL SIGN AS SHOWN, ATTACHED TO
THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE
SIGNAL HEAD UNLESS REMOVED WITHIN THE SIGNAL
PLAN NOTES.

EACH ITEM "TRAFFIC SIGNAL HEAD (3 SEC., I-WAY)" TO BE USED AS A LEFT TURN INDICATION ONLY SHALL INCLUDE A SIGN (RIO-IO) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD.

EACH PEDESTRIAN PUSHBUTTON SHALL HAVE ONE RIO-3E SIGN ATTACHED TO THE POLE ABOVE THE BUTTON, ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 723 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY

ALL SIGN BLANKS SHALL BE CONSTRUCTED OF ALUMINUM ALLOY (ASTM DESIGNATION B-209, ALLOY 5052-H38) WITH THICKNESS OF 0,100 INCH.

GENERAL NOTES: I. MAST ARM POLES SHALL BE MOUNTED A MINIMUM OF FOUR (4') FEET BEHIND CURB OR SHOULDER.

2. OCTAGONAL POLES AND ARMS MEETING THE REQUIREMENTS OF THE PLANS SPECIFICATIONS CAN BE INSTALLED IN LIEU OF ROUND. ALL POLES AND ARMS IN A JOB MUST BE THE SAME SHAPE.

3. MINIMUM STRUCTURAL REQUIREMENTS: DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND 2006 INTERIMS.

USE FATIGUE CATEGORY IFOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS 65 MPH AND GREATER AT THE STRUCTURE LOCATION AND ON ROUTES WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH AN MAST ARM OF 60'

USE FATIGUE CATEGORY IIFOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS LESS THAN 65 MPH AND GREATER THAN 45 MPH WITH MAST ARMS LESS THAN 60'AND ON ROUTES WHERE THE SPEED LIMITS OF 45 MPH AND LESS WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY MIFOR ALL STRUCTURES WHERE THE SPEED LIMIT IS 45 MPH AND LESS AND MAST ARMS LESS THAN 60'.

CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

BASE WIND SPEED: 90 MPH.

STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH A THICKNESS GREATER THAN ½" SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

DEAD LOAD: AS A MINIMUM, DESIGN SHALL BE BASED ON THE FIXED ATTACHMENTS SHOWN BELOW OR AS MODIFIED IN THE PLANS.

ALL SIGNAL HEADS TO BE ONE WAY, TWELVE (12") INCH AND HAVE FIVE (5") INCH BACK PLATES:

SIGNAL HEADS AT THE END OF MAST ARM - ONE 4 SEC., 85 LB., 14.5 SQ., FT., ONE SIGN MOUNTED 3 FEET FROM SIGNAL HEAD (2'-0" X 2'-6"; 20 LB.) REMAINING SIGNAL HEADS SPACED AT 8 FT.(3 SEC., 56 LB., 8.3 SQ. FT.); DESIGN TO ACCOMMODATE: HEADS SPACED AT 8 FILLS SEC, 30 LB., 8.5 SULFIL DESIGN TO ACCOMMODATE: 2 SIGNAL HEADS FOR MAST ARMS 10 FT. TO 16 FT. 3 SIGNAL HEADS FOR MAST ARMS 18 FT. TO 24 FT. 4 SIGNAL HEADS FOR MAST ARMS OVER 26 FT.

STREET NAME SIGN - 72" X 18", 36 LB., MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAT 12 FT. FROM POLE. DEPENDING UPON POSITION OF SIGNAL HEAD ADJACENT TO POLE, SIGN MAY OVERLAP POLE SHAFT. ROADWAY LUMINAIRES (WHERE REQUIRED ON PLAN SHEET) - VARIABLE ARM LENGTH (MAX WT. 75 LB., 3.3 SO, FT.) PEDESTRIAN SIGNALS - TWO 1 SEC., 12 INCH MOUNTED 8 FT. FROM BASE OF POLE, POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE OF POLE.

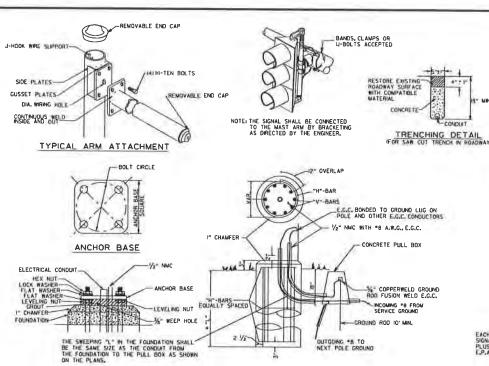
4. POLE/MAST ARM CAP - POLE AND MAST ARM CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST

5. HAND HOLE - HAND HOLES SHALL BE 4 IN. X 6 IN. FOR STANDARD, AND 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY 12 INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACCUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL, POLES GREATER THAN 21FT. IN HEIGHT (FOR ROADWAY LUMINAIRE ATTACHMENT) SHALL INCLUDED A HAND HOLE WITHIN 12 INCHES OF MAST ARM(S) ATTACHMENT(S).

6.POLE/MAST ARM TAPER SLOPE - AVERAGE TAPER OF SIGNAL MAST ARMS AND POLE SHAFT SHALL BE 0,125 TO 0.15 INCHES PER FOOT.

MAST ARM CENTERLINE ANGLE AT ATTACHMENT POINT WITH POLE SHALL MAINTAIN NOT LESS THAN 0.5 DEGREES OR MORE THAN 4 DEGREES POSITIVE SLOPE WITH A LINE PERPENDICULAR TO THE POLE CENTERLINE. THE MAST ARM SHALL MAINTAIN A POSITIVE SLOPE AFTER IT IS PLACED

7. NUT COVERS - EACH POLE SHALL INCLUDE A BOLT DOWN NUT COVER FOR EACH ANCHOR BOLT.

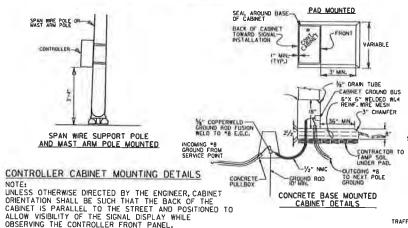


THE GROUND ROD SHALL BE FUSION WELDED TO A IC/"8 A.W.G. SOLID COPPER GROUND WHEE ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP, THE GROUND HOU IS TO BE LOCATED IN THE CONCRETE PULL BOX.

TYPICAL FOUNDATION DETAILS

POLE FOUNDATION MINIMUM DIMENSIONS AND STEEL REINFORCING. ALL REINFORCING STEEL SHALL BE GRADE 40 MIN.

ARM	FOUNDATION	DEPTH	STEEL					
LENGTH	DIAMETER	"L"*	VERTICAL	HORIZONTAL	0.C.			
PED	30"	7'-0"	12-#7 (6'-6")	10-#4	8.44"			
2' TO 12'	30"	10'-6"	12-#7 (10'-0")	15-#4	8.42"			
OVER 12' TO 20'	30"	11'-6"	12-#7 (11'-0")	16-#4	8.66"			
OVER 20' TO 35'	36"	12'-6"	13-#8 (12'-0")	17-#4	8.88"			
OVER 35' TO 50'	36"	13*-6"	13-#8 (13'-0")	19-#4	8.56"			
OVER 50' TO 72'	42"	14'-6"	18-#8 (14'-0")	20-#4	8.74"			
TWINS TO 20'	30"	16"-0"	12-#6 (15'-6")	22-#4	8.76"			
TWINS OVER 20' TO 44'	36"	16'-0"	13-#8 (15'-6")	22-#4	8.76"			
TWINS OVER 44' TO 50'	42"	16"-0"	18-#8 (15'-6")	22-#4	8.76"			
TWINS OVER 50' TO 72'	42"	16'-6"	18-#8 (16'-0")	23-#4	8.64"			



B. GROUND ROD - A 10' X 5/8" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER, PAYMENT FOR THE GROUND ROD AND 1/2" NH SHALL BE INCLUDED IN ITEM 714 FOR SIGNAL POLES AND ITEM 701FOR THE CONTROLLER. THE CONCRETE PULL BOX AND CONDUCTOR BOX SHALL BE PAID SEPERATELY.

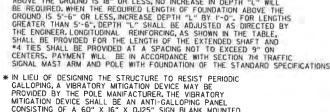
POLE BASE/FOUNDATION - ANCHOR BOLTS SHALL INCLUDE AS A MINIMUM, ONE LEVELING NUT, TWO FLAT WASHERS, ONE LOCK WASHER, AND ONE HEX NUT, PERIMETER OF ANCHOR BASE SHALL BE GROUTED WITH A 1/4" WEEP HOLE. ALL CONCRETE SHALL BE CLASS "S" OR GREATER.

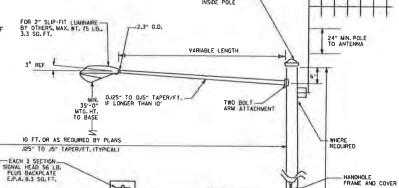
** WHEN THE GROUND ELEVATION AT THE POLE IS LOWER THAN THE ROADWAY ELEVATION, THE LENGTH OF FOUNDATION ABOVE THE GROUND MAY BE INCREASED TO PROVIDE THE REQUIRED SIGNAL HEAD CLEARANCE ABOVE THE ROADWAY, WHEN THE REQUIRED SIGNAL HEAD CLEARANCE ABOVE THE GROUND IS 18" OR LESS, NO INCREASE IN DEPTH "L" WILL BE REQUIRED, WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 5"-6" OR LESS, INCREASE DEPTH "L" BY 1"-0"- FOR LENGTHS GREATER THAN 5"-6", DEPTH "L" SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, LONGTUDINAL REINFORCING, AS SHOWN IN THE TABLE, SHALL BE PROVIDED FOR THE LENGTH OF THE EXTENDED SHAFT AND "4 TIES SHALL BE PROVIDED AT A SPACING NOT TO EXCEED 9" ON CENTERS. PAYMENT WILL BE IN ACCORDANCE WITH SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS.

** IN LIEU OF DESIGNING THE STRUCTURE TO RESIST PERIODIC GALLOPING, A VIBRATORY MITIGATION DEVICE MAY BE PROVIDED BY THE POLE MANIFACTURER. THE VIBRATORY MITIGATION DEVICE MAY BE PROVIDED BY THE POLE MANIFACTURER. THE VIBRATORY MITIGATION DEVICE SHALL BE AN ANTI-GALLOPING PANEL CONSISTING OF A 60" X 16" X 0,125" SIGN BLANK MOUNTED NEAR THE END OF THE MAST ARM NOT TO EXCEED ONE OUARTER OF THE LENGTH OF THE MAST ARM FROM THE END OF THE MAST ARM WITH THE LONG AXIS OF THE PANEL COLLINEAR WITH THE LONG AXIS OF THE MAST ARM. THE PANEL SHOULD BE MOUNTED AT SUCH THE HEIGHT AS TO PROVIDE AT LEAST 6" CLEAR FROM THE TOP OF ANY SIGNAL ASSEMBLY OF SIGN PANEL LOCATED ON THE MAST ARM WITHIN THE LENGTH OF THE ANTI-GALLOPING PANEL.

TRUCK-INDUCED GUST LOADS SHALL BE EXCLUDED FOR FATIGUE DESIGN FOR ALL STRUCTURES EXCEPT MAST ARMS MOUNTED OVER FACILITIES WITH POSTED SPEEDS OF 65 MPH OR GREATER AT THE LOCATION OF THE STRUCTURE.

* * VIBRATORY MITIGATION DEVICE





SIGNAL OPERATION NOTES:

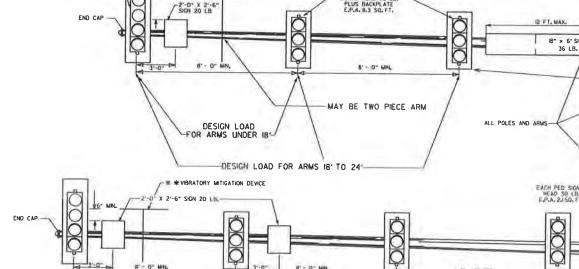
WORK DAY, EXCEPT FRIDAY.

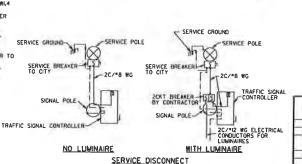
FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER, SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WOOD DAY EVERT ENDIAY.

THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD, AT THE TIME THE INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATION IN FLASH

SPECIAL NOTE: 90 MPH WIND ZONE DESIGN, SEE

NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.

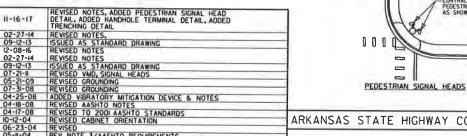




II. PEDESTRIAN PHASES - PEDESTRIAN MOVEMENTS SHALL BE PUSH BUTTON ACTUATED AND CONCURRENTLY TIMED, UNLESS OTHERWISE INDICATED ON THE PLAN SHEET(S). FURNISHING AND INSTALLING PEDESTRIAN PUSH SWITCH SHALL BE

CONSIDERED SUBSIDIARY TO THE ITEM 707 PEDESTRIAN

DESIGN LOAD FOR ARMS 26' AND OVER LEFT TURN LEFT YIELD TURN ON FLASHING YELLOW SIGNAL ARROW RIO-3e (SEE MUTCO: R10-10 SPECIAL



FILMED

ARKANSAS STATE HIGHWAY COMMISSION

SEE NOTE 6

MAST ARM MOUNTED SIGNAL HEADS SHALL BE MOUNTED AT 17' TO 19' ABOVE ROADWAY

ONE SECTION (SOLID SYMBOL)

PEDESTRIAN SIGNAL HEAD

HANDHOLE TERMINAL

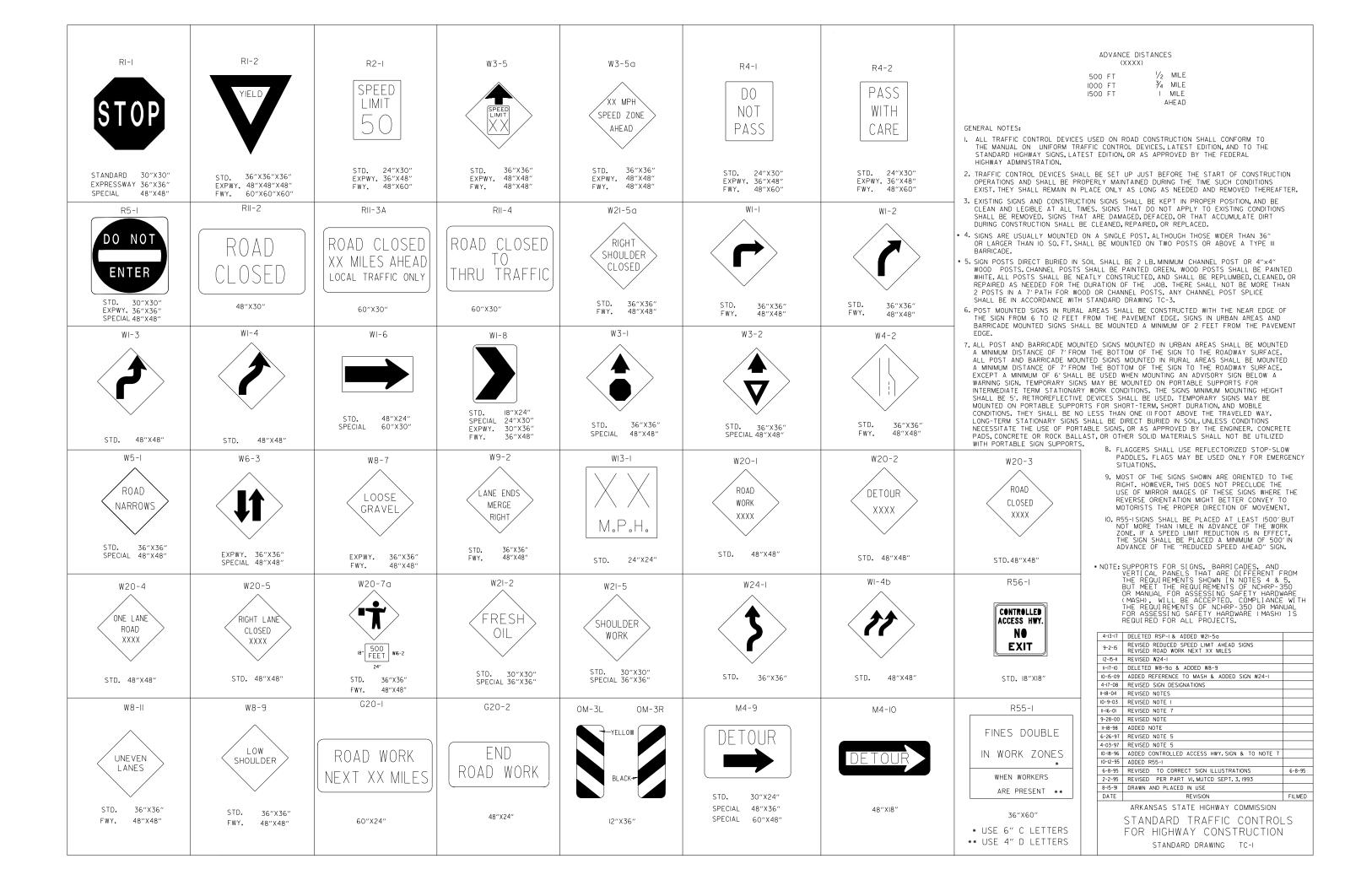
STEEL POLE WITH MAST ARM

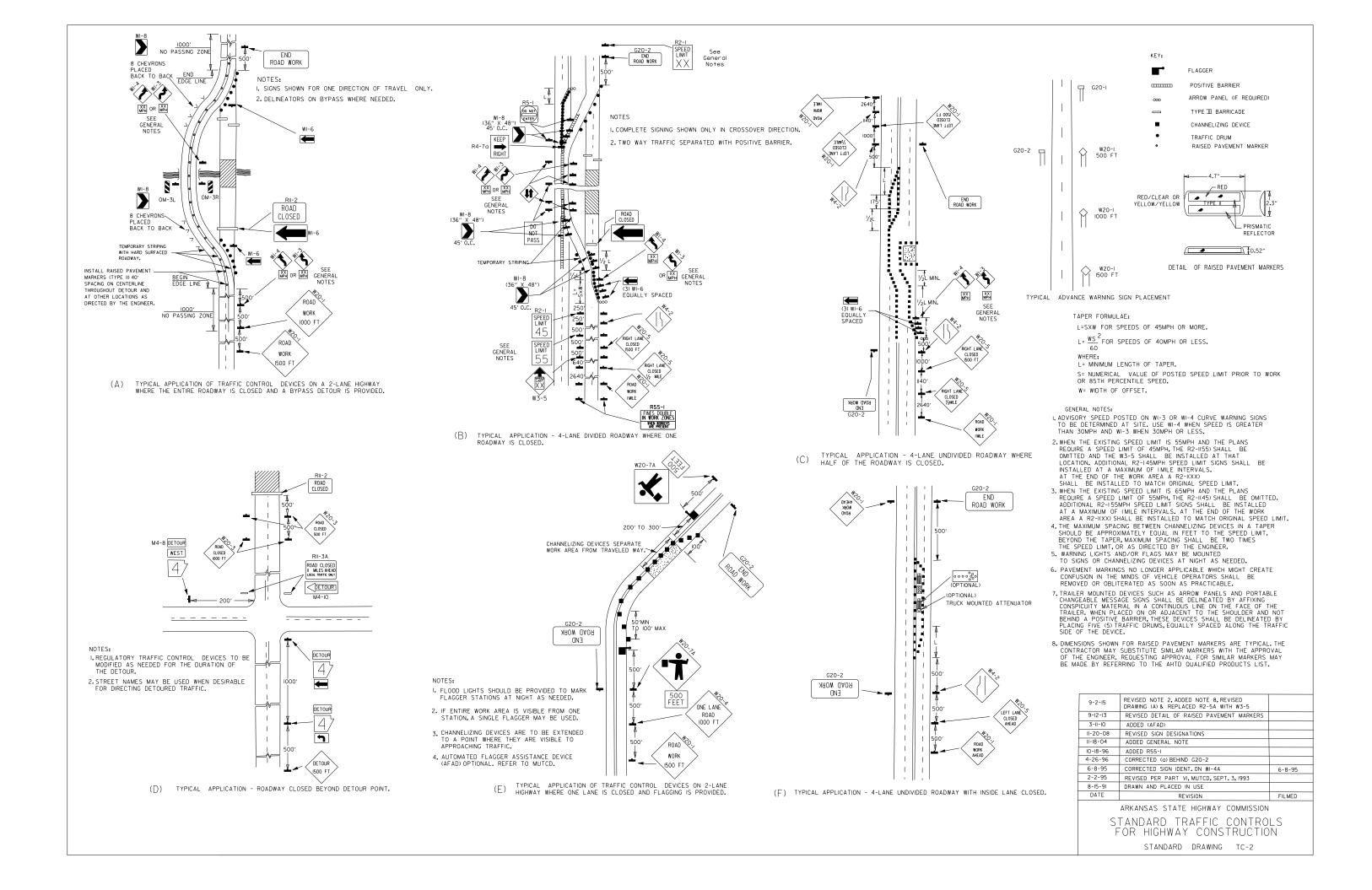
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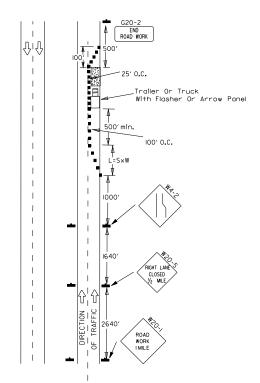
STANDARD DRAWING SD-II

SERVICE DISCONNECT NOTE: ELECTRICAL GROUND CONDUCTOR IS BONDED TO ALL METAL ENCLOSURES

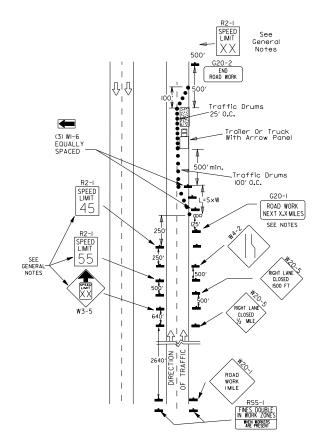
IO. CONCRETE - ALL CONCRETE FOR CONTROLLER CABINET AND POLE FOUNDATIONS SHALL BE CLASS "S" OR GREATER.



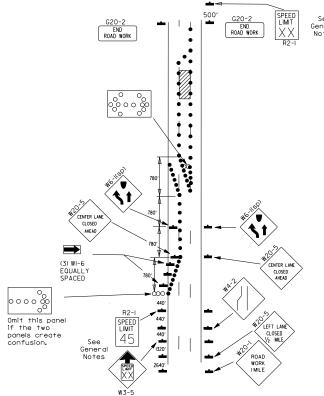




(A) Typical application – daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.



B) Typical application - 3-lane oneway roadway where center lane is closed.

KEY:

OOO Arrow Panel(If Required)

- Channelizing Device
- Traffic drum

GENERAL NOTES:

- I. A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
- 2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-I(55) shall be omitted and the W3-5 shall be installed at that location. Additional R2-I45mph speed limit signs shall be installed at a maximum of Imile intervals. At the end of the work area a R2-I(XX) shall be installed to match original speed limit.
- 3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-K45) shall be omitted. Additional R2-I55mph speed limit signs shall be installed at a maximum of Imile intervals. At the end of the work area a R2-KXX) shall be installed to match original speed limit.
- 4. The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit or as directed by the Engineer.
- 5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
- 6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
- 7. The G20-Isign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-Isign shall be erected 125' in advance of the job limit. Additional W20-I(IMILE) signs are not required in advance of lane closures that begin inside the project limits.
- 8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual For Assessing Safety Hardware (MASH).
- 10. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.



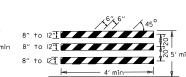


8" to 12"

8" to 12"

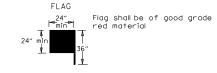
TYPE IBARRICADE

VERTICAL PANEL



NOTE: TYPE IIBARRICADE

For all road closures, the Type III barricades shall be of sufficient length to extend across entire roadway.



TRAFFIC CONTROL DEVICES

VERTICAL PAVEMENT DIFFERENTIALS

Greater than 3" Edge of traveled lane *RSP-land vertical panels, drums or concrete barrier

. When shown on the plans concrete barrier will be used.

When the shoulder area is used as part of the traveled lane and there is insufficier

width to place drums on the remaining shoulder width, then vertical panels shall be used

TRAFFIC CONTROL

Standard lane closure required

W8-II

W8-9

LOCATIONS

Centerline, lane lines

Edge of shoulder

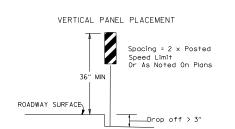
Lane lines

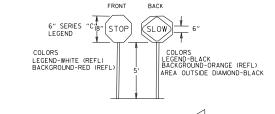
Greater than 3" Edge of shoulder

I" to 3"

I" to 3"

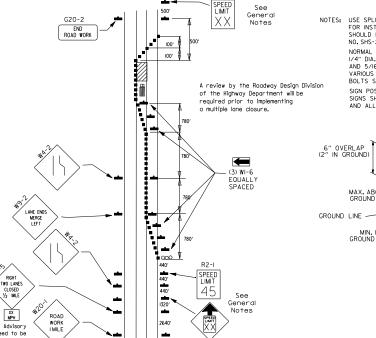
Greater than 3"



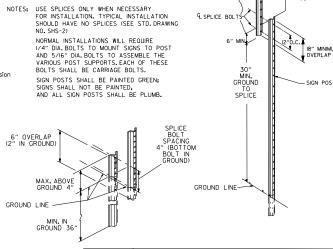


DETAIL OF SPLICES & SIGN BOLT

STOP SLOW PADDLE



(\bigcirc) Typical application - closing multiple lanes of a multilane highway.



9-2-15	REVISED NOTE 2 & REPLACED R2-5A WITH W3-5	
10-15-09	ADDED REFERENCE TO MASH	
II-20-08	REVISED SIGN DESIGNATIONS	
II-I8-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1& REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-I	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FILMED
	ADKANISAS STATE HICHWAY COMMISSIONI	

ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-3