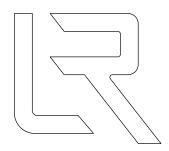
UNIVERSITY AVENUE TRAFFIC OPERATIONS IMPROVEMENTS (LITTLE ROCK)(s) F.A.P. STPU-9253(81) JOB 061468

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			
04221	9 hy C)I R		UNIVERSITY AVE.					
0-7221	J Dy C	/L I (ASCT PLANS					



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

APPROVED BY:

DATE: ______BID_NO.:

Jon Honeywell, Public Works Director

LIST OF PLAN SHEETS ARKANAAS REGISTERED PROPESSION ENGINEER 1/632 SERVINEER 1/632 SERVINEER 1/632 SERVINEER 1/632

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
D SCHEDULE A: FIB	ER RELATED WORK		
601	MOBILIZATION - SCHEDULE A (FIBER)	LS	1
SS & 603	MAINTENANCE OF TRAFFIC - SCHEDULE A (FIBER)	LS	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)	FA	47
SP	FIBER OPTIC DROP CABLE, PRETERMINATED	EA	16
SP	FIBER OPTIC TERMINATION CABINET	EA	1
SP	FUSION SPLICER FOR RIBBON FIBER	EA	1
SP	FIBER CONNECTION INTEGRATION	LS	1
D SCHEDI II E R: SIG	NAL RELATED WORK		
601	MOBILIZATION - SCHEDULE B (SIGNALS)	LS	1
SS & 603	MAINTENANCE OF TRAFFIC - SCHEDULE B (SIGNALS)	LS	1
SP & 701	SYSTEM LOCAL CONTROLLER TS 2 - TYPE 2, E-NET (8 PHASE)	EA	19
SP & 701	CONTROLLER CABINET	EA	4
SP & 701	CONTROLLER CABINET RELOCATION	EA	1
SP SP	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1
SP	CENTRAL SYSTEM SOFTWARE UPGRADE	LS	1
SP	ATCS PROCESSING UNIT	EA	22
SP	VIDEO DETECTOR (IP) for ASCT	EA	106
SP	NETWORK CABLE, EXTERIOR, CAT 5E	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) - Adaptive Power	L.F.	19330
710	NON-METALLIC CONDUIT (3")	LF	1010
SP & 709	RISER ASSEMBLY	EA	7
SP&710	JACK AND BORE CONDUIT	LF	1010
DUCTIVE ALTERNATE	1.		
	: 1.: G ITEMS. NOTE THAT DEDUCTIVE UNIT PRICES SHALL BE THE SAME AS BASE BID UNIT PRI	CES FOR THE IDENT	ICAL ITEM
SP SP	FIBER CONNECTION INTEGRATION	LS	1
SP&701	ETHERNET SWITCH MULTIPORT LAYER 3	EA	2
SP SP	FIBER OPTIC TERMINATION CABINET	EA	1
SP	FIBER OPTIC CABLE, SM 72 (UG)	LF	3700
EDUCTIVE ALTERNATE LETE THE FOLLOWIN 601	E 2: GITEMS. NOTE THAT DEDUCTIVE UNIT PRICES SHALL BE THE SAME AS BASE BID UNIT PRI MOBILIZATION - SCHEDULE A (FIBER)	CES FOR THE IDENT	ICAL ITEM.
SS & 603	MAINTENANCE OF TRAFFIC - SCHEDULE A (FIBER)	LS	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 SP	PULL BOX (FIBER OPTIC) FIBER OPTIC DROP CABLE, PRETERMINATED	EA EA	47 16
SP	FIBER OPTIC DROP CABLE, PRETERMINATED FIBER OPTIC TERMINATION CABINET	EA	1

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				67	ARK.		2	80	
				JOB	NO.	061468			
						UNIVERSITY AVE.			
04404				1		CINIVERSITI AVE.			

041919 by CLR

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

- 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.
- 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.
- 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
- CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS.
- 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.
- 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.
- 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
- 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 EVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	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
- 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



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.	,	

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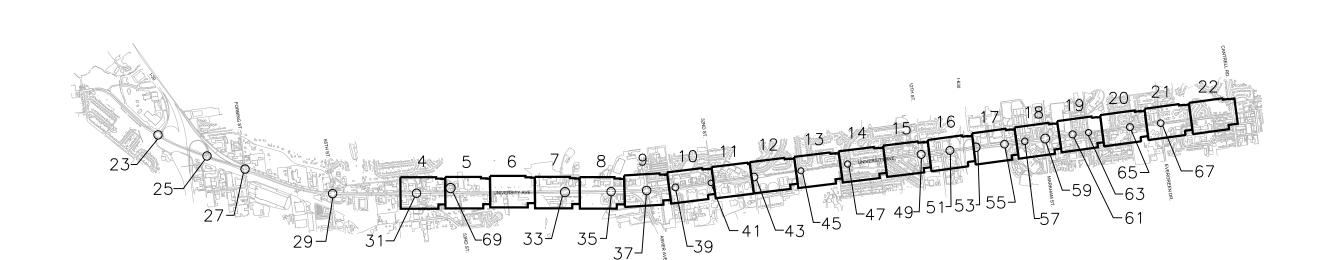
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ENGINEER

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2907H K. CESSTILL

5/9/2018

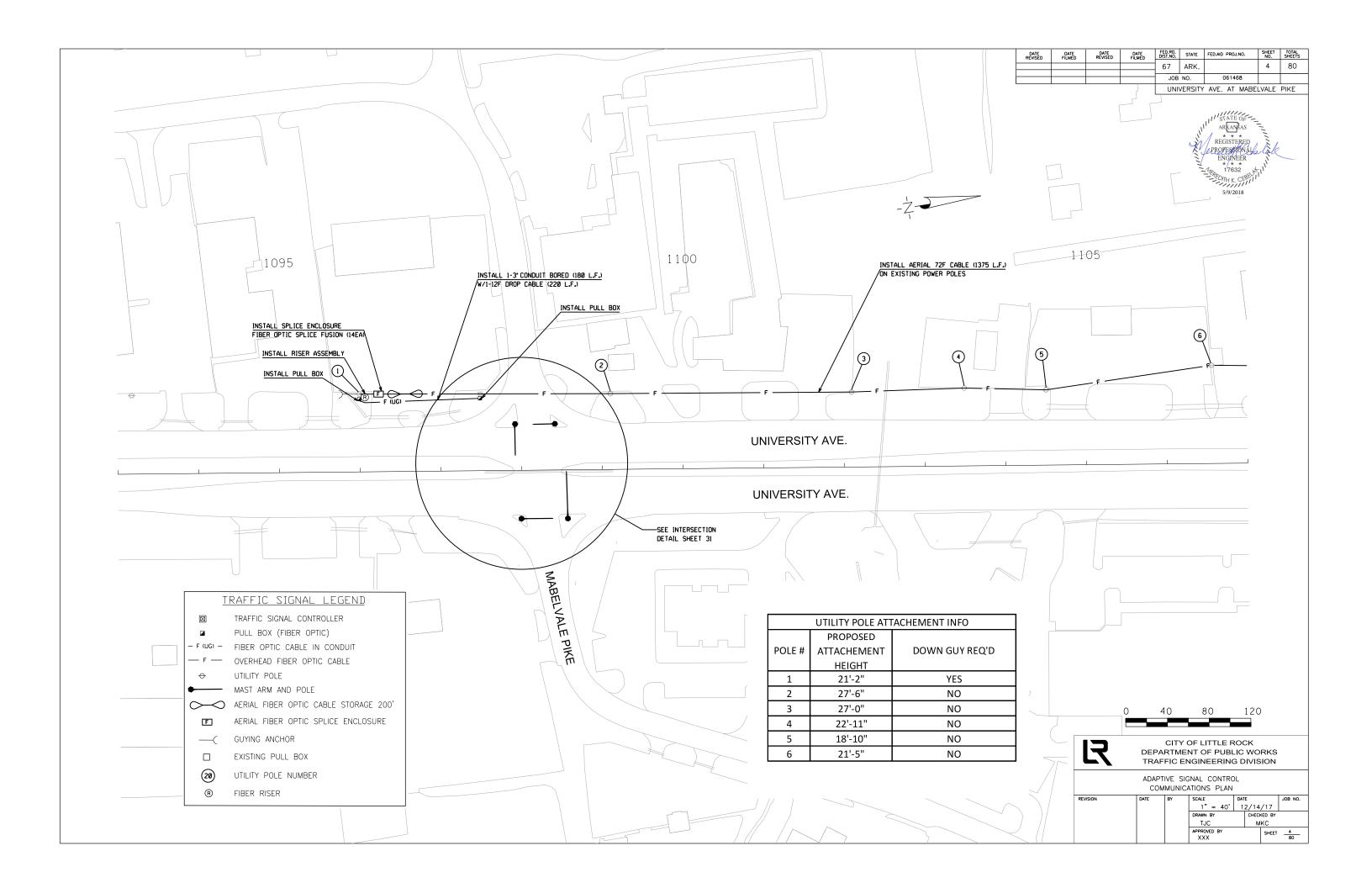


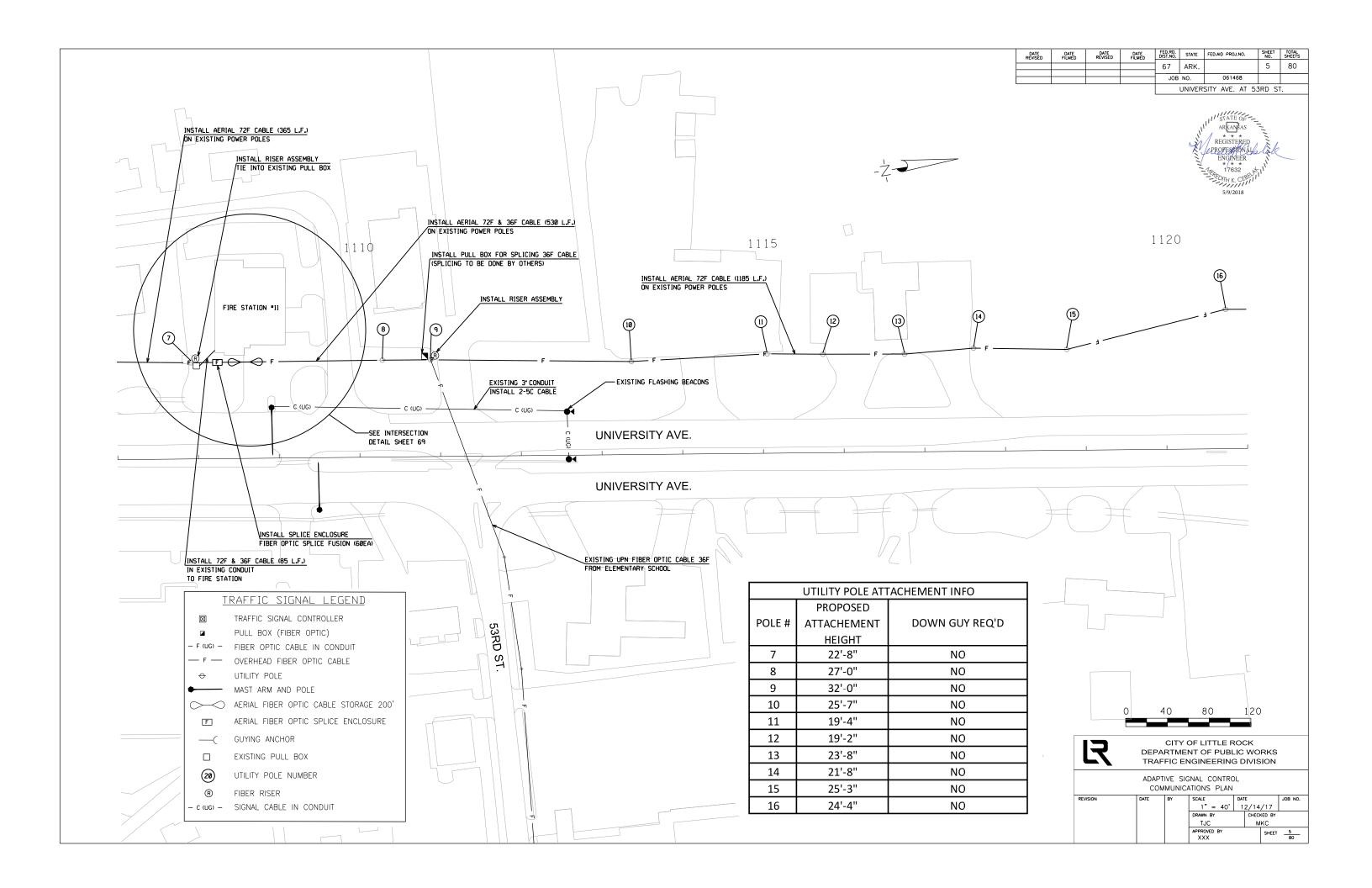
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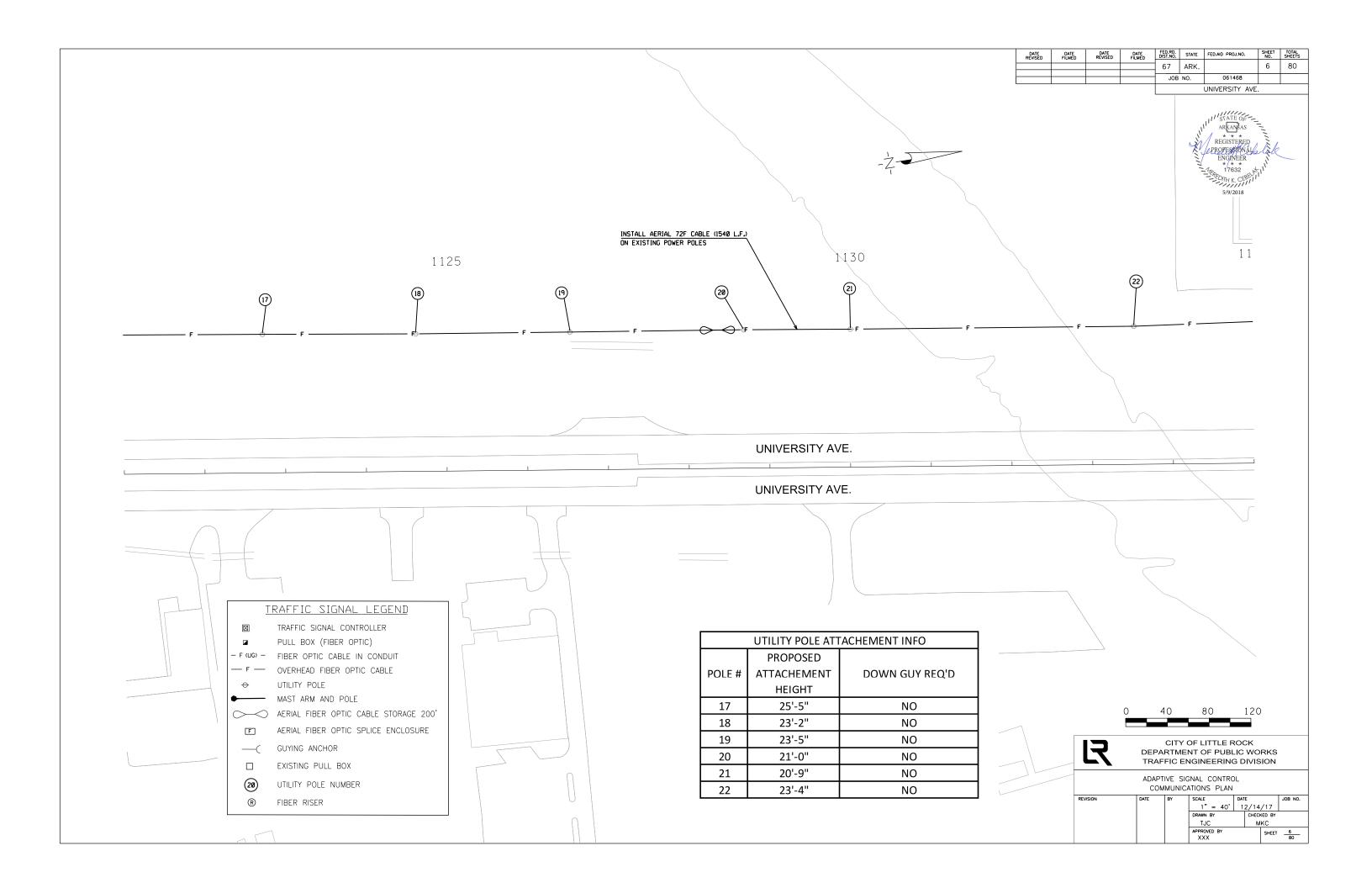
CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

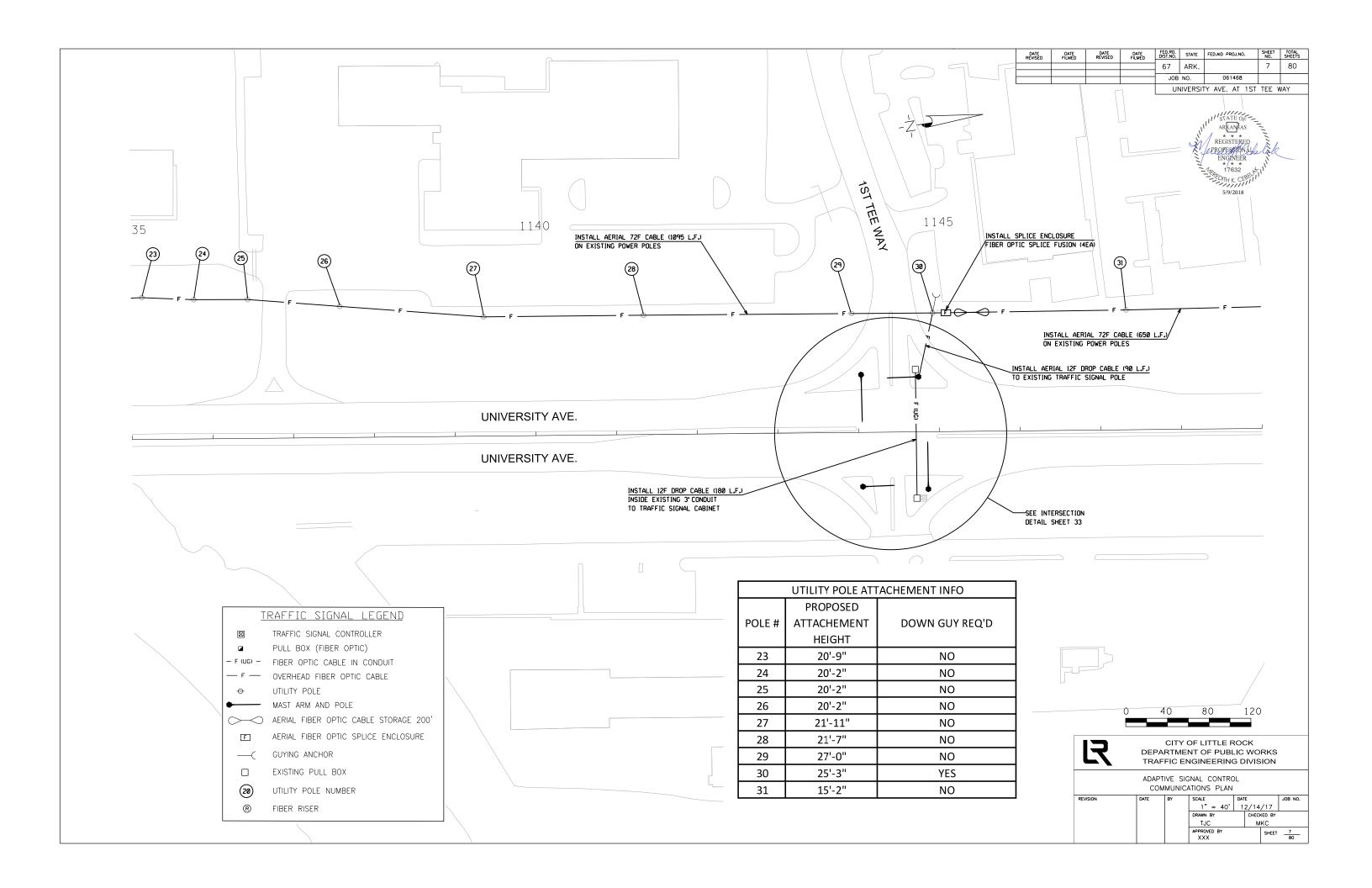
ADAPTIVE SIGNAL CONTROL COMM PLAN KEY LAYOUT SHEET

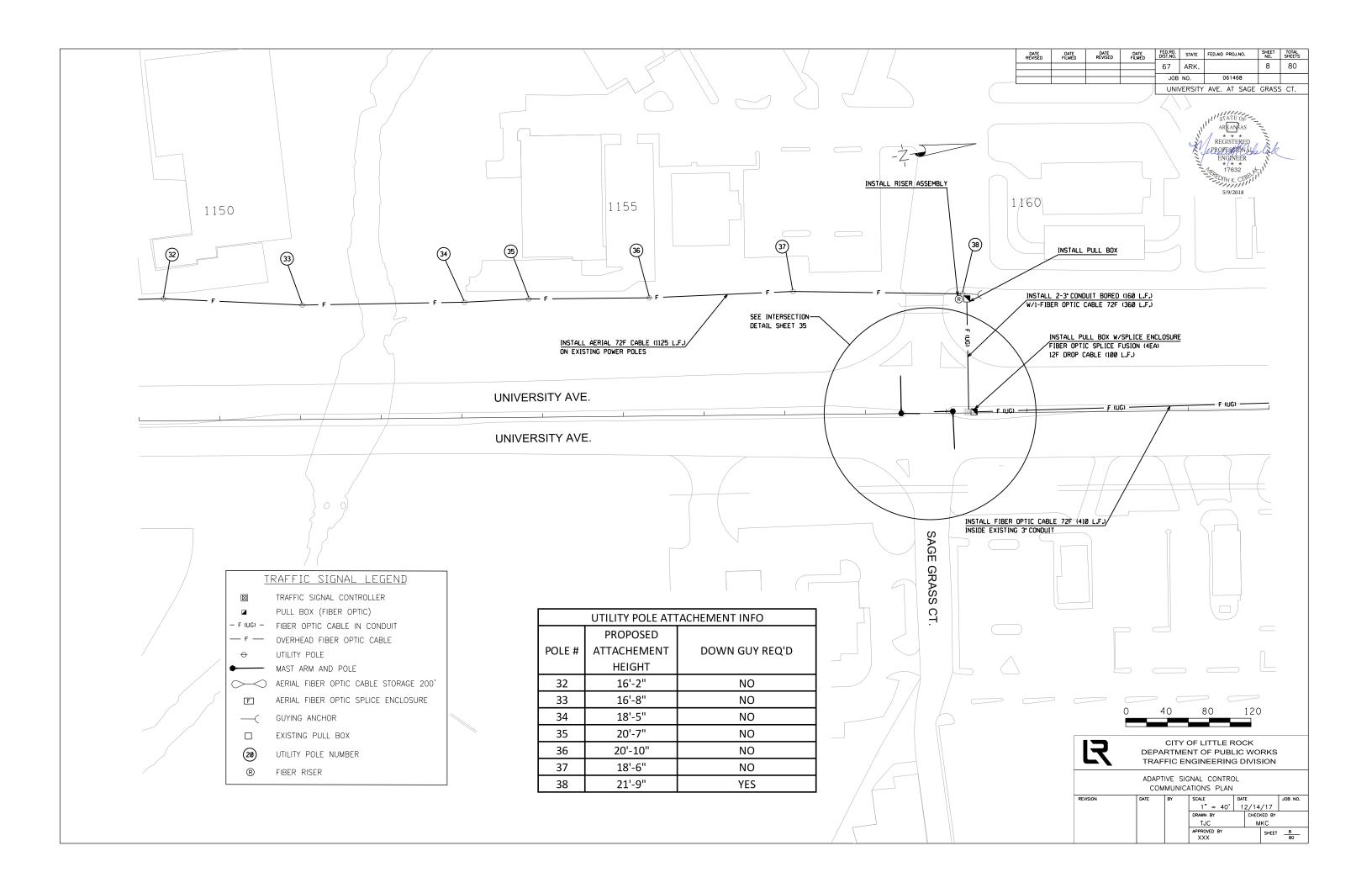
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REVISION	DATE	BY	SCALE	DATE		JOB NO.					
			1" = 3000'	12/14	/17						
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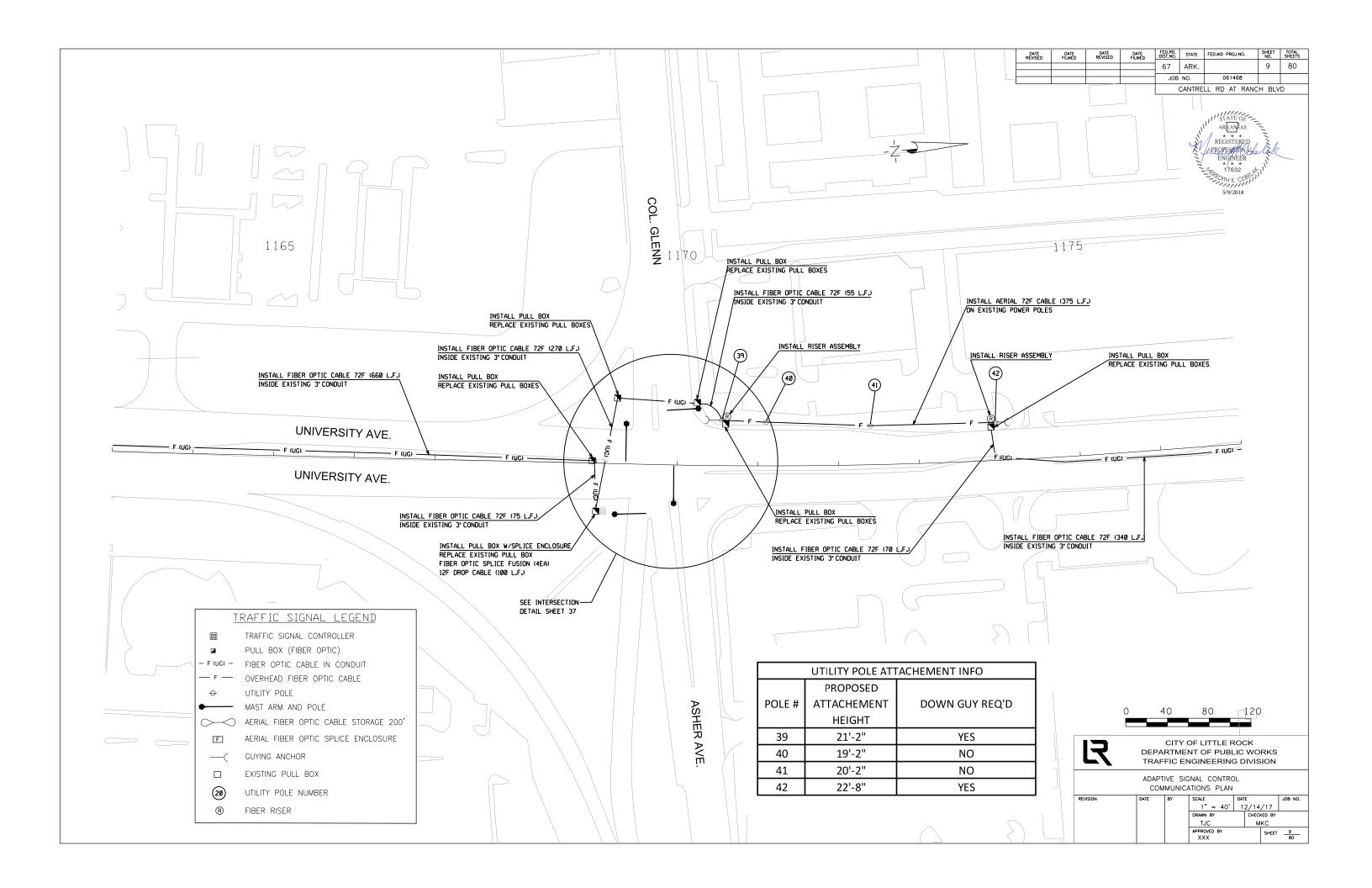


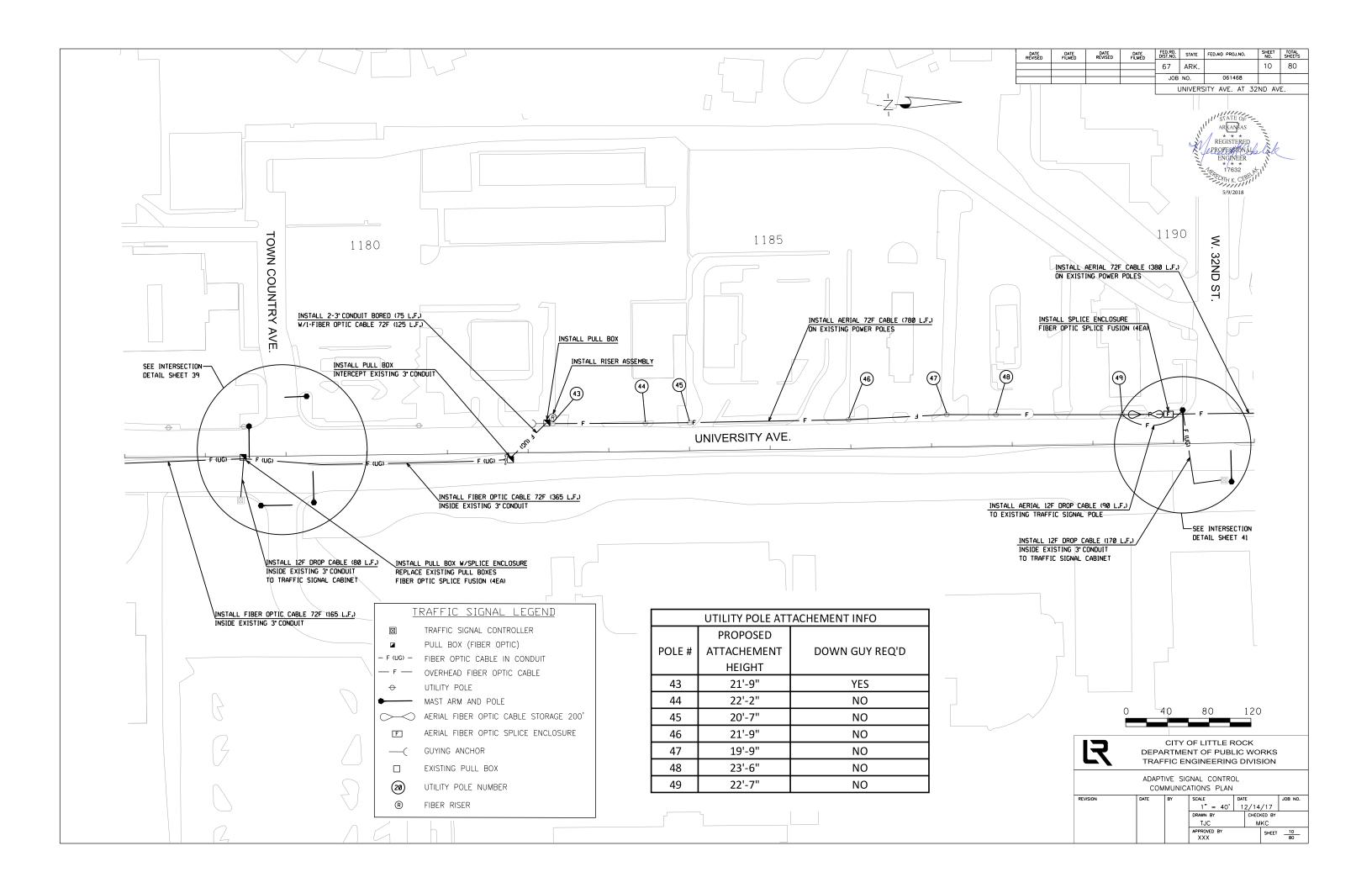


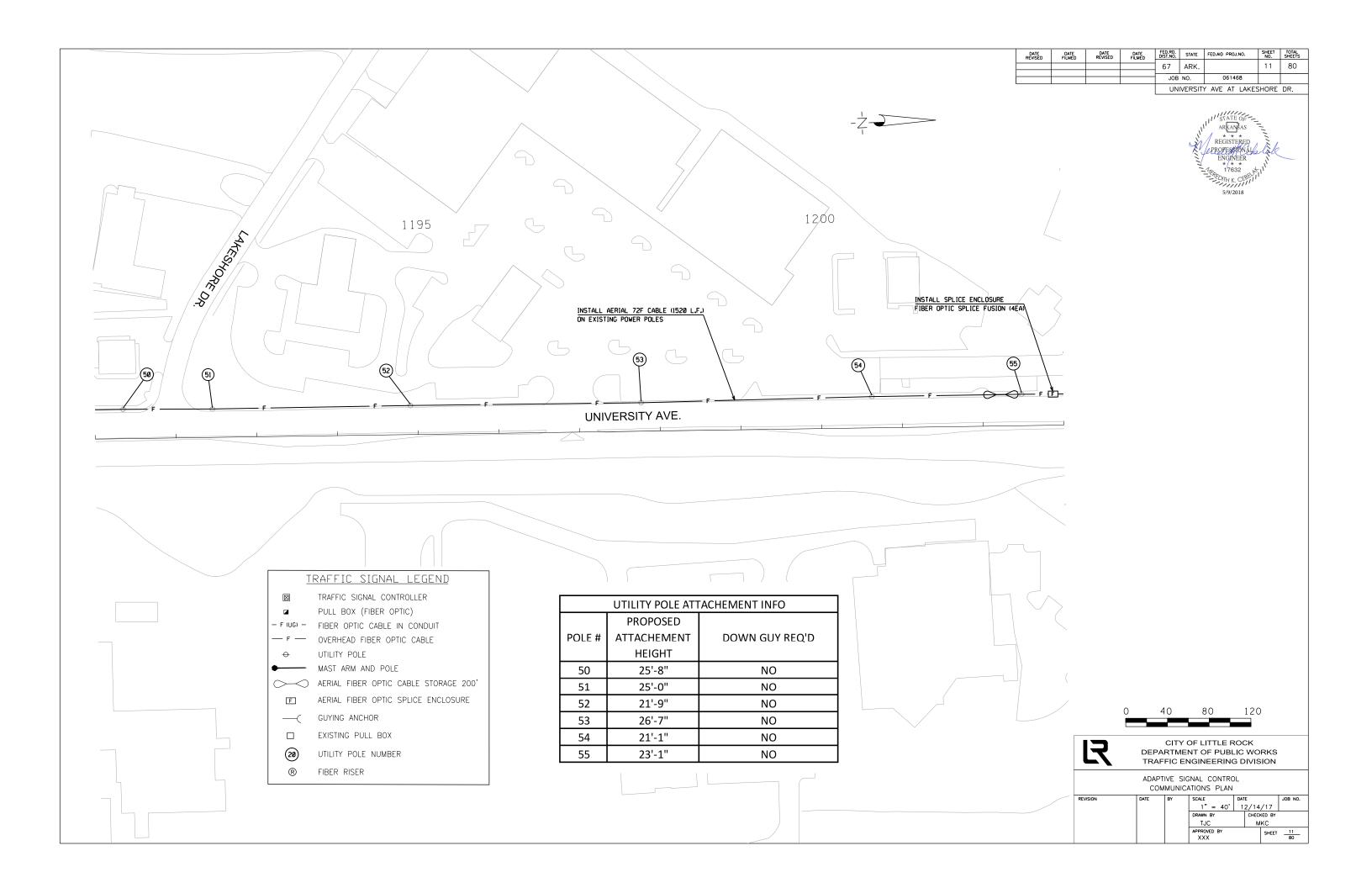


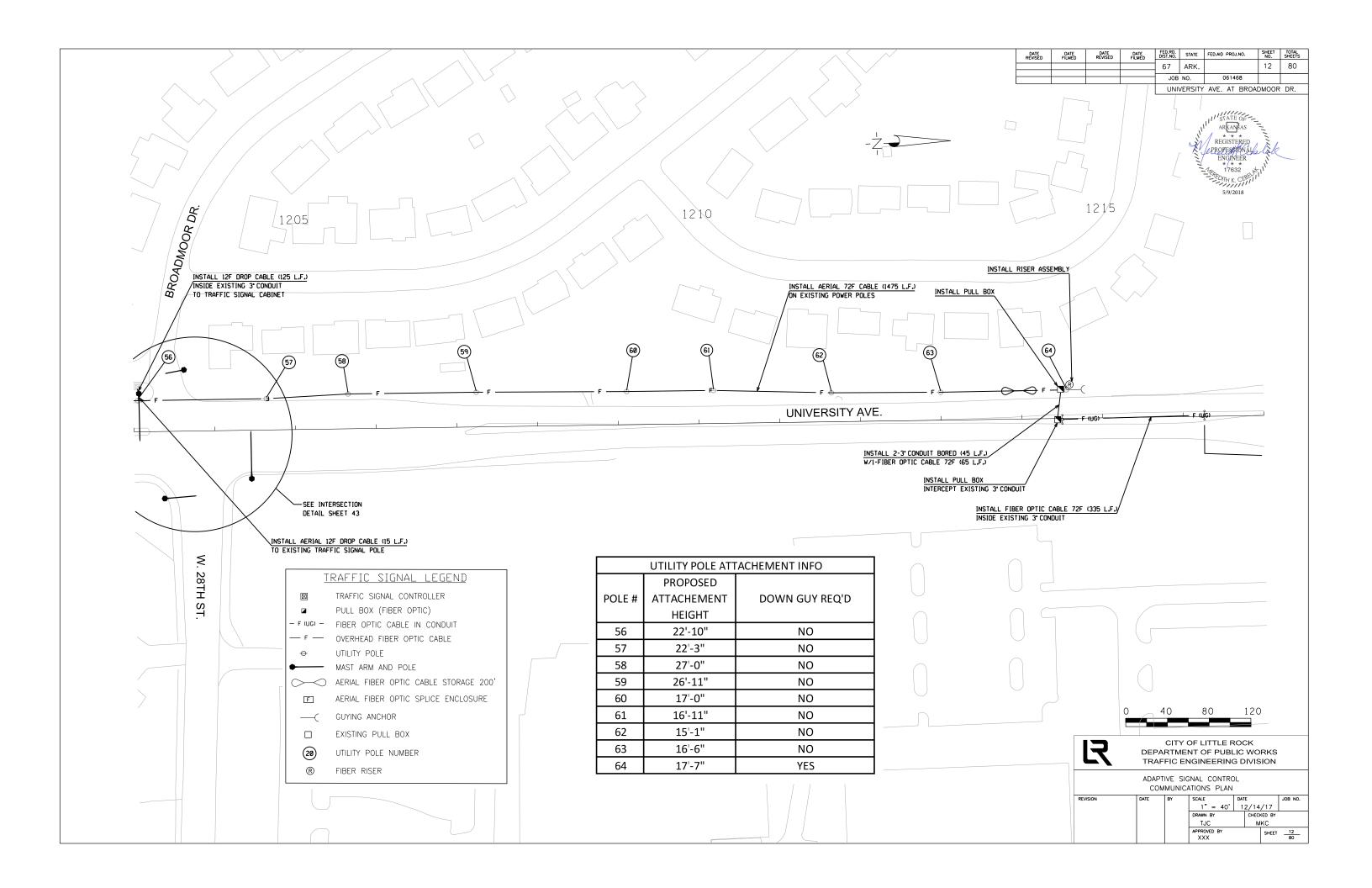


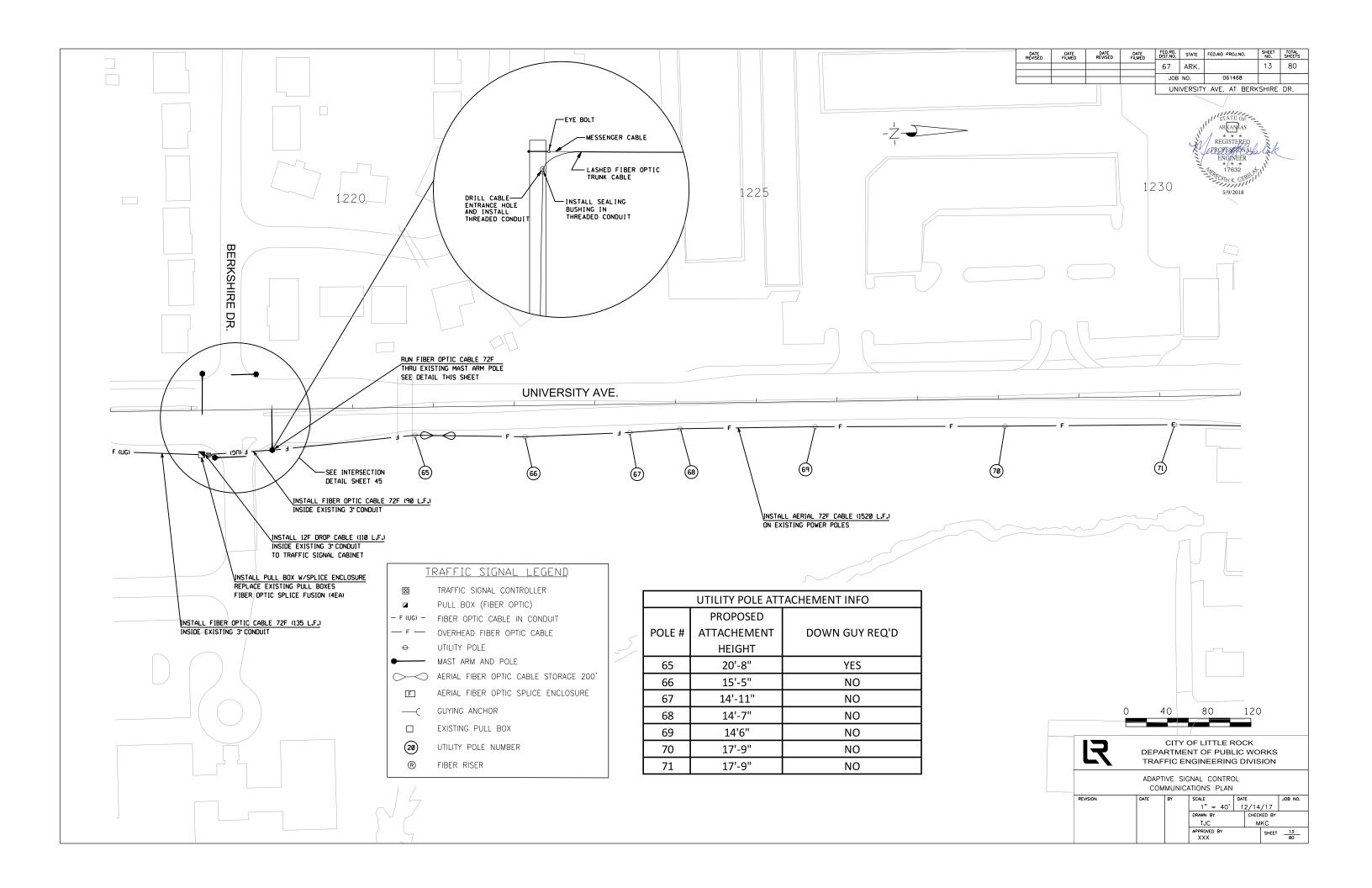


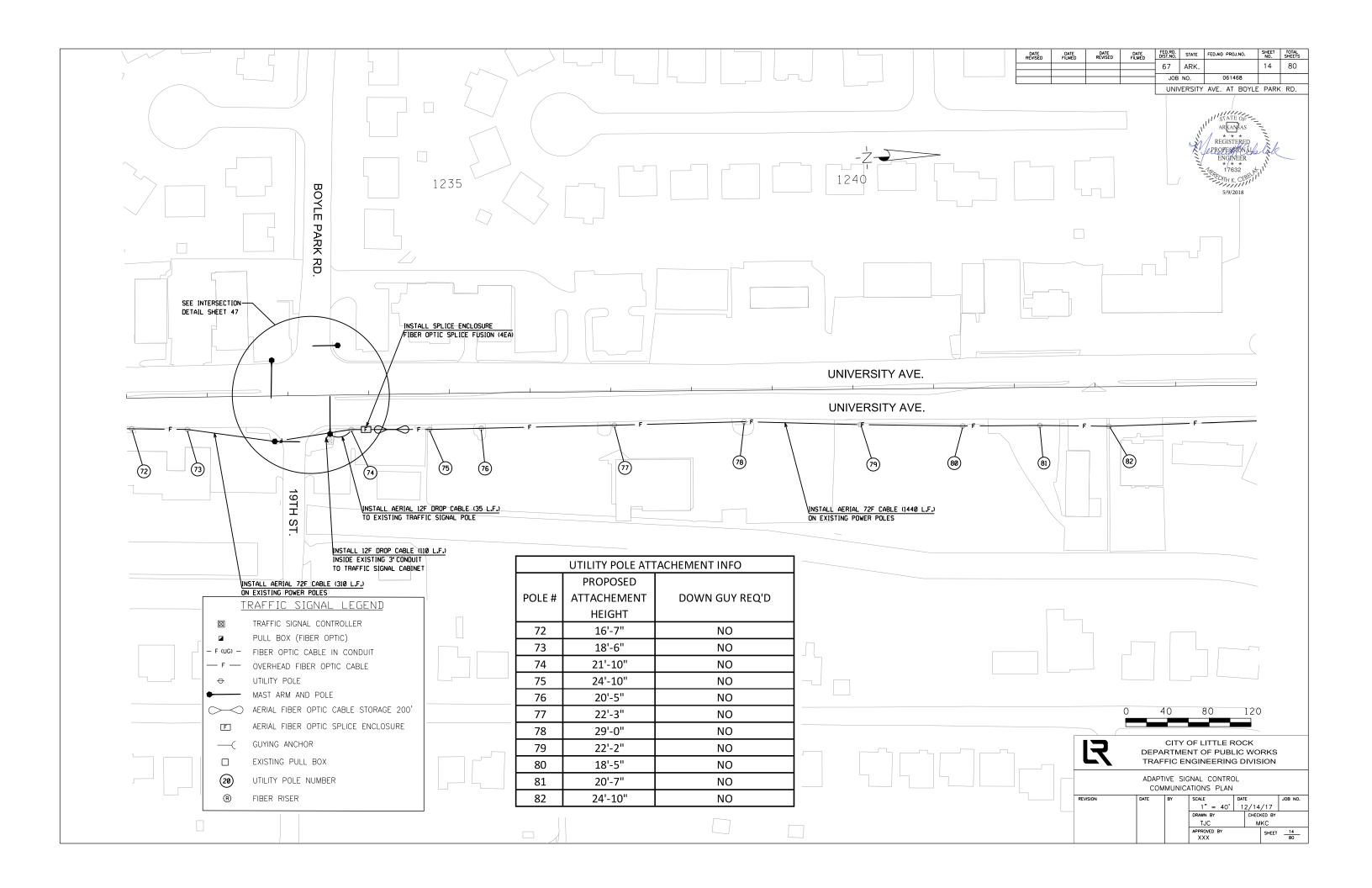


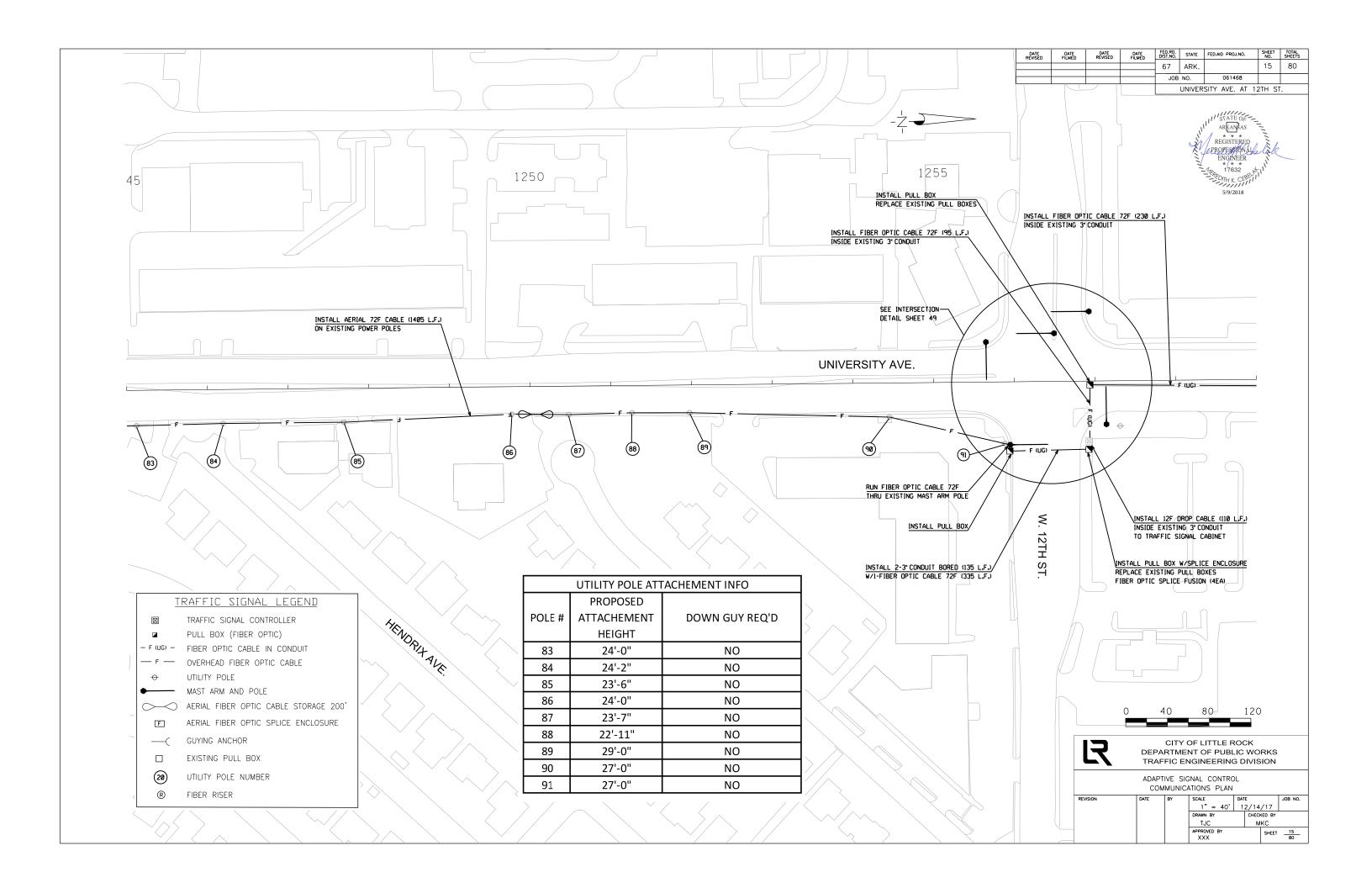


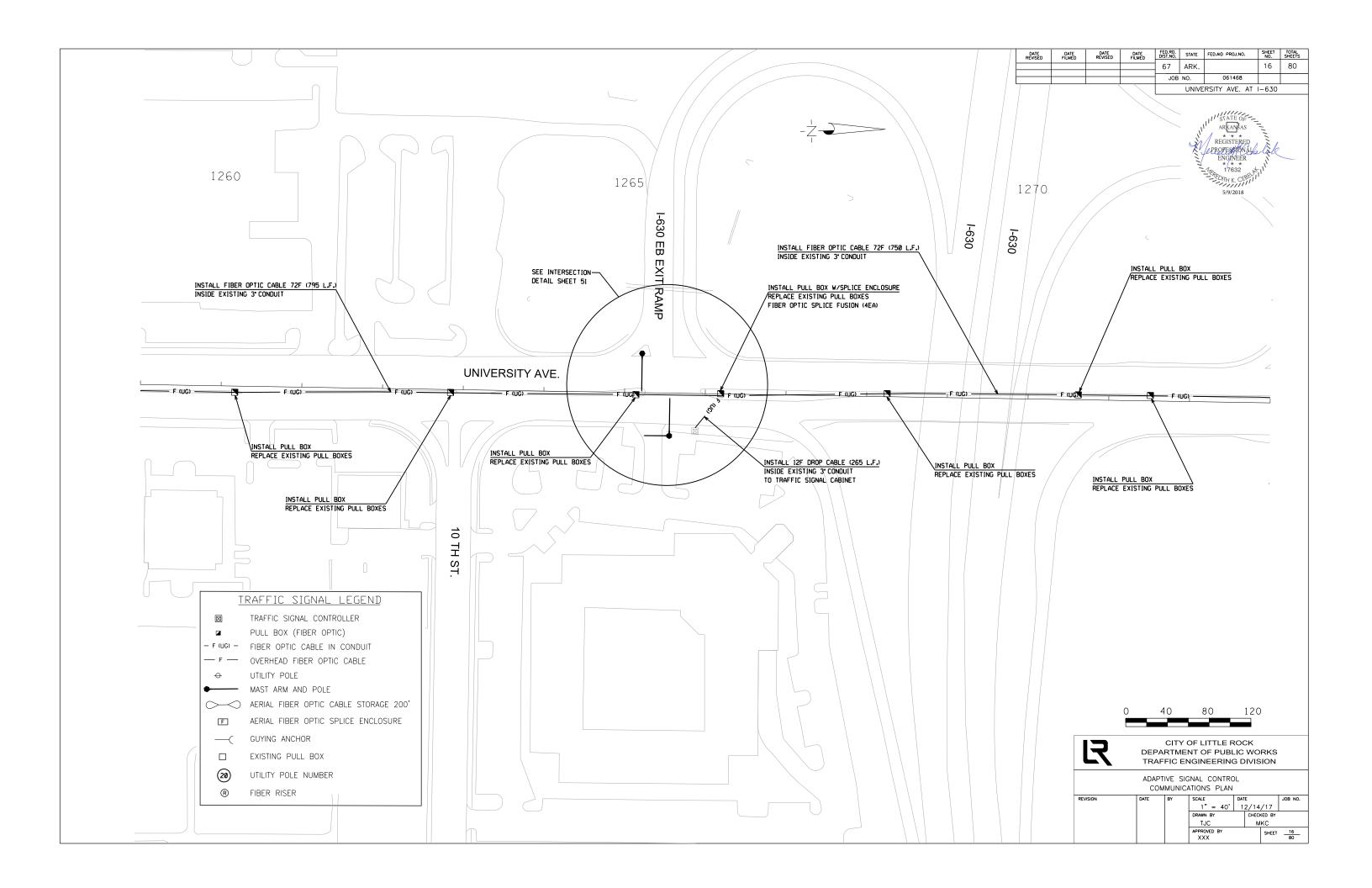


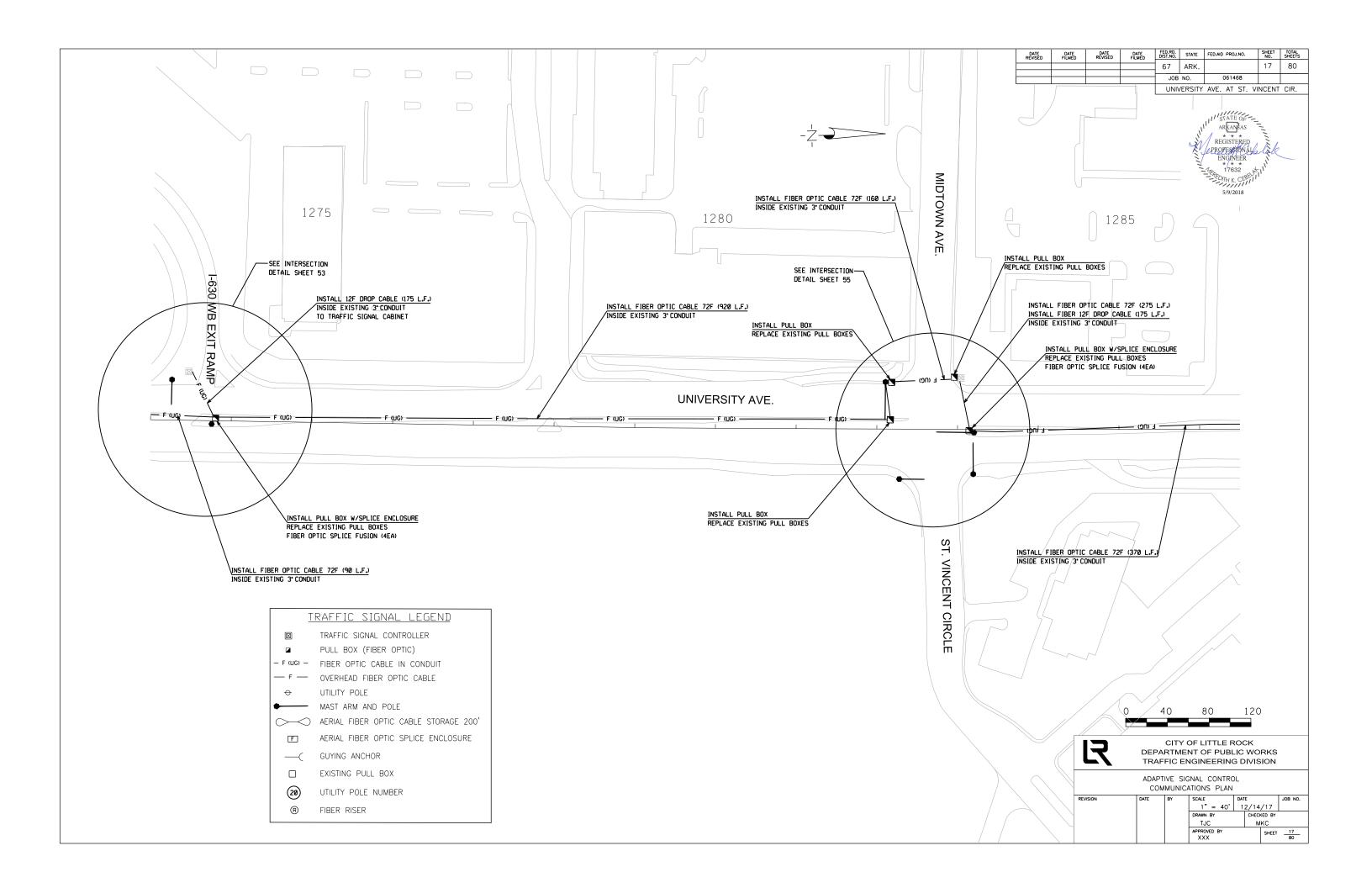


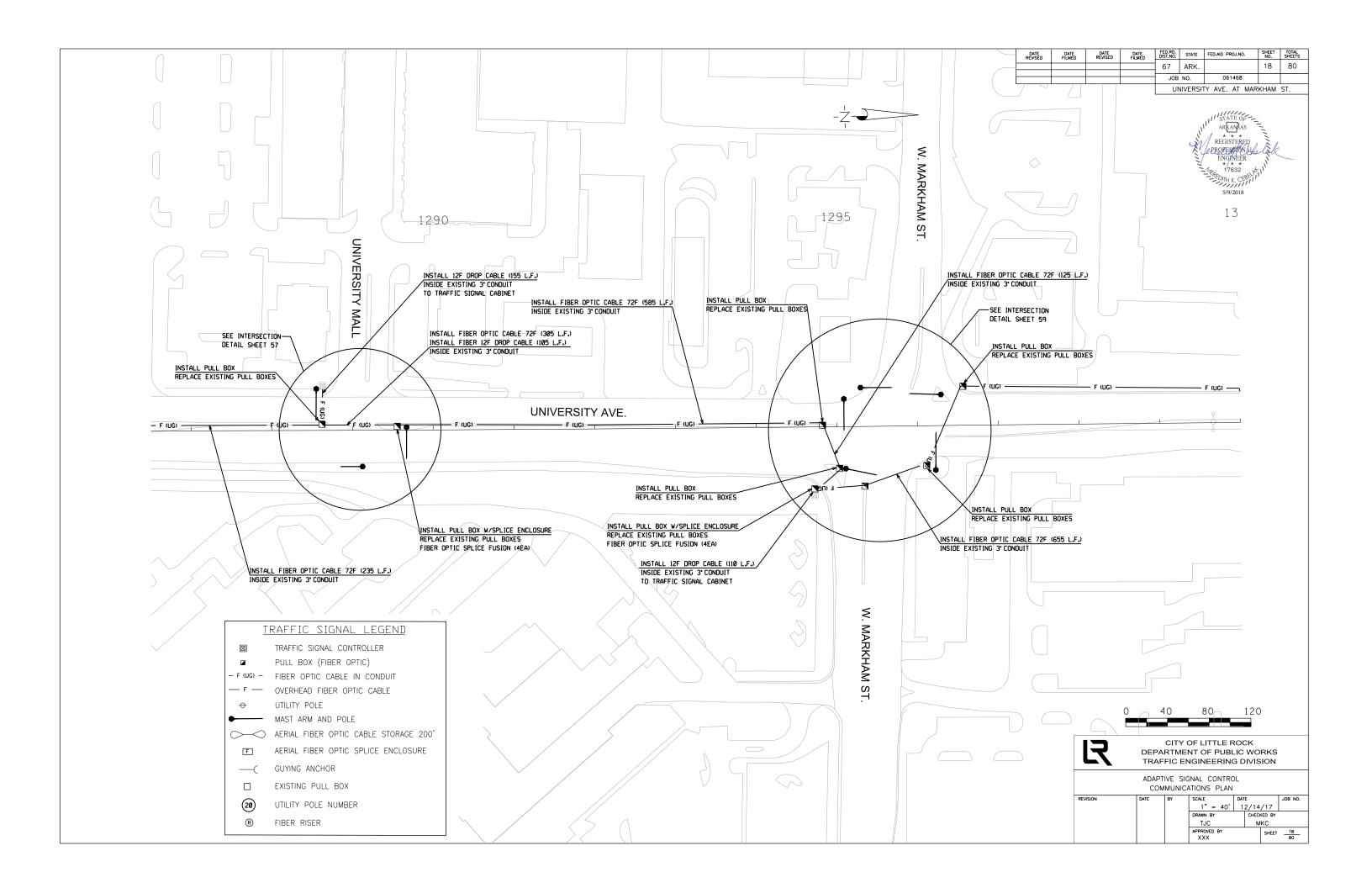


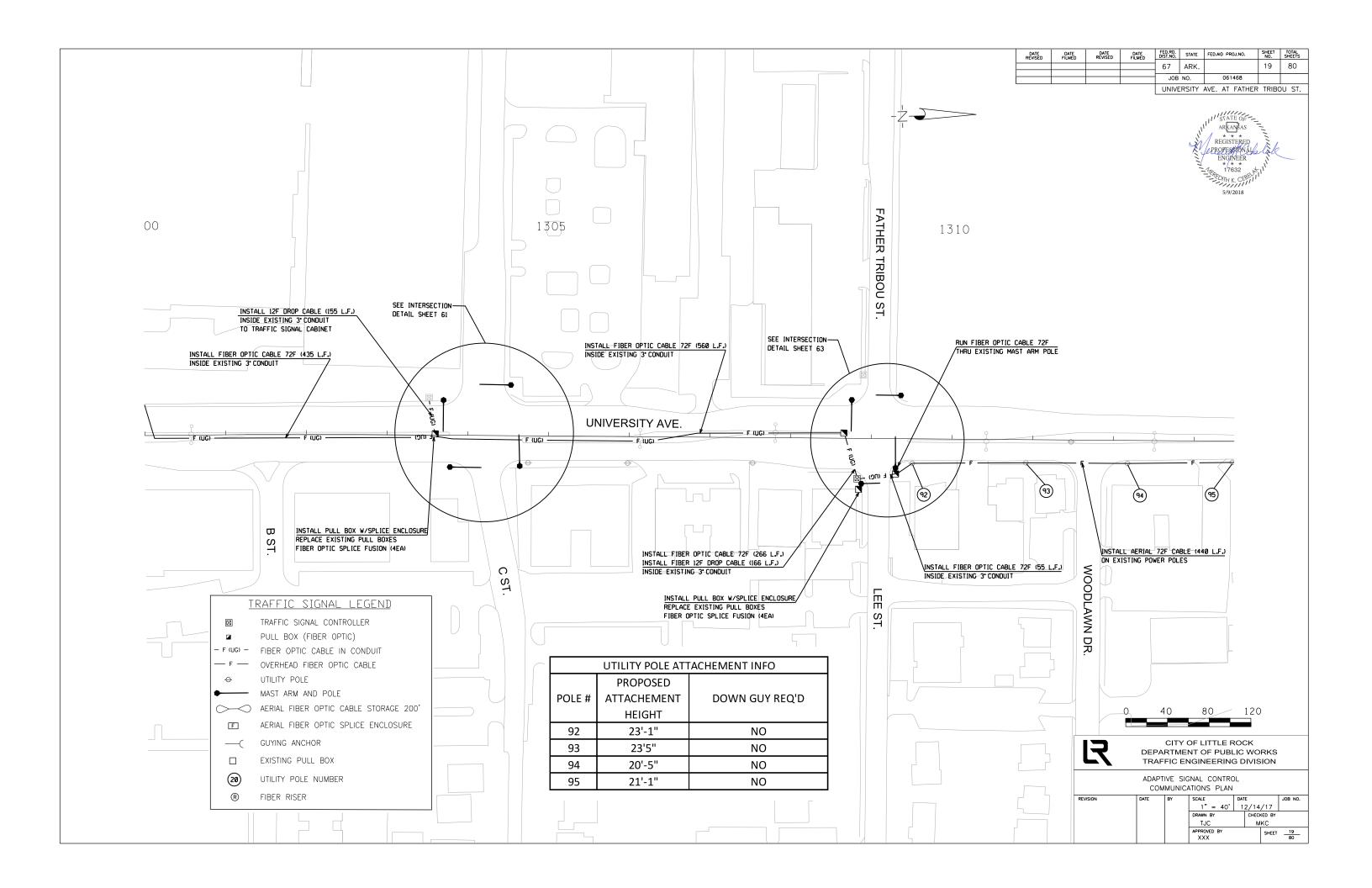


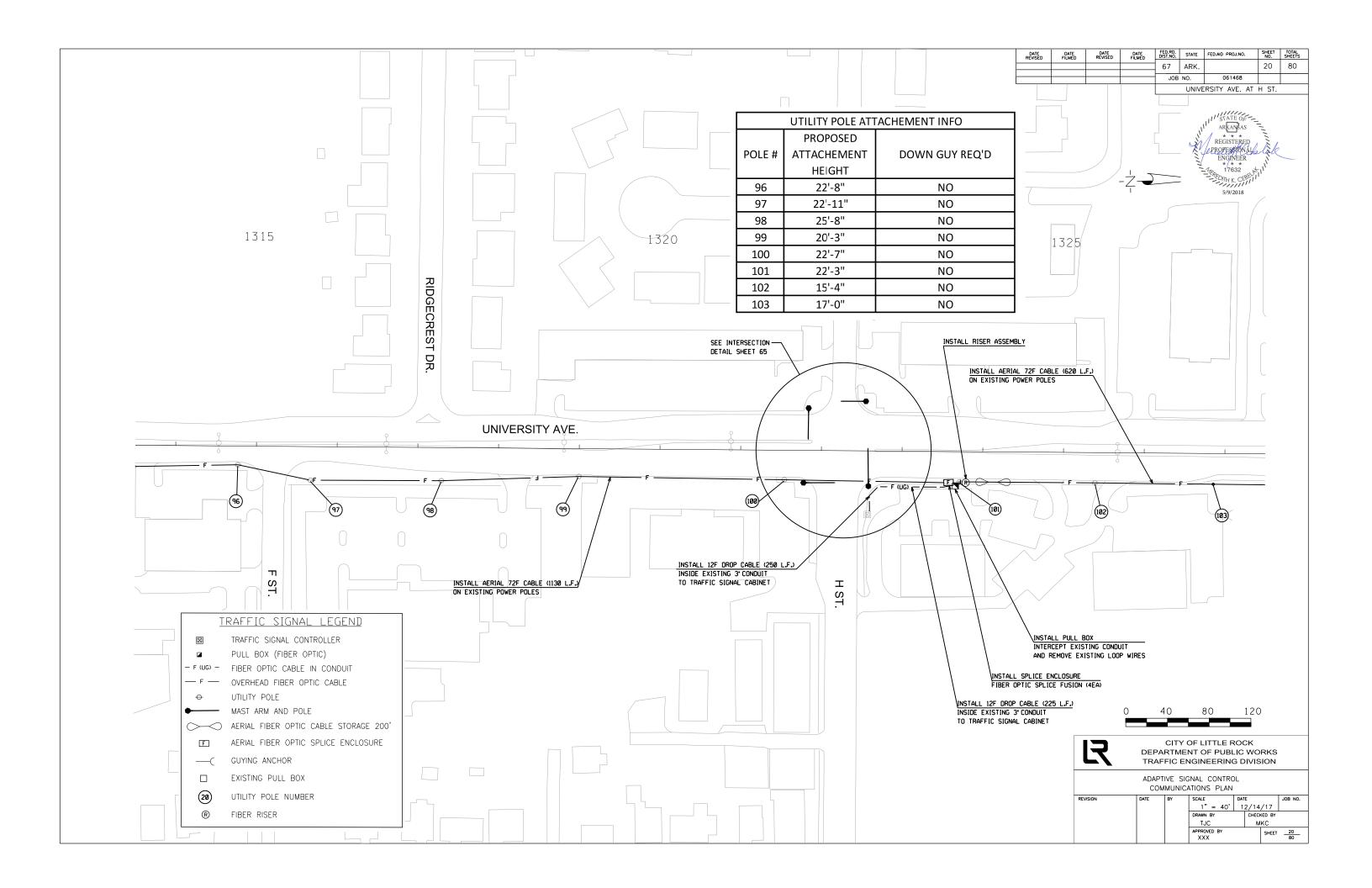


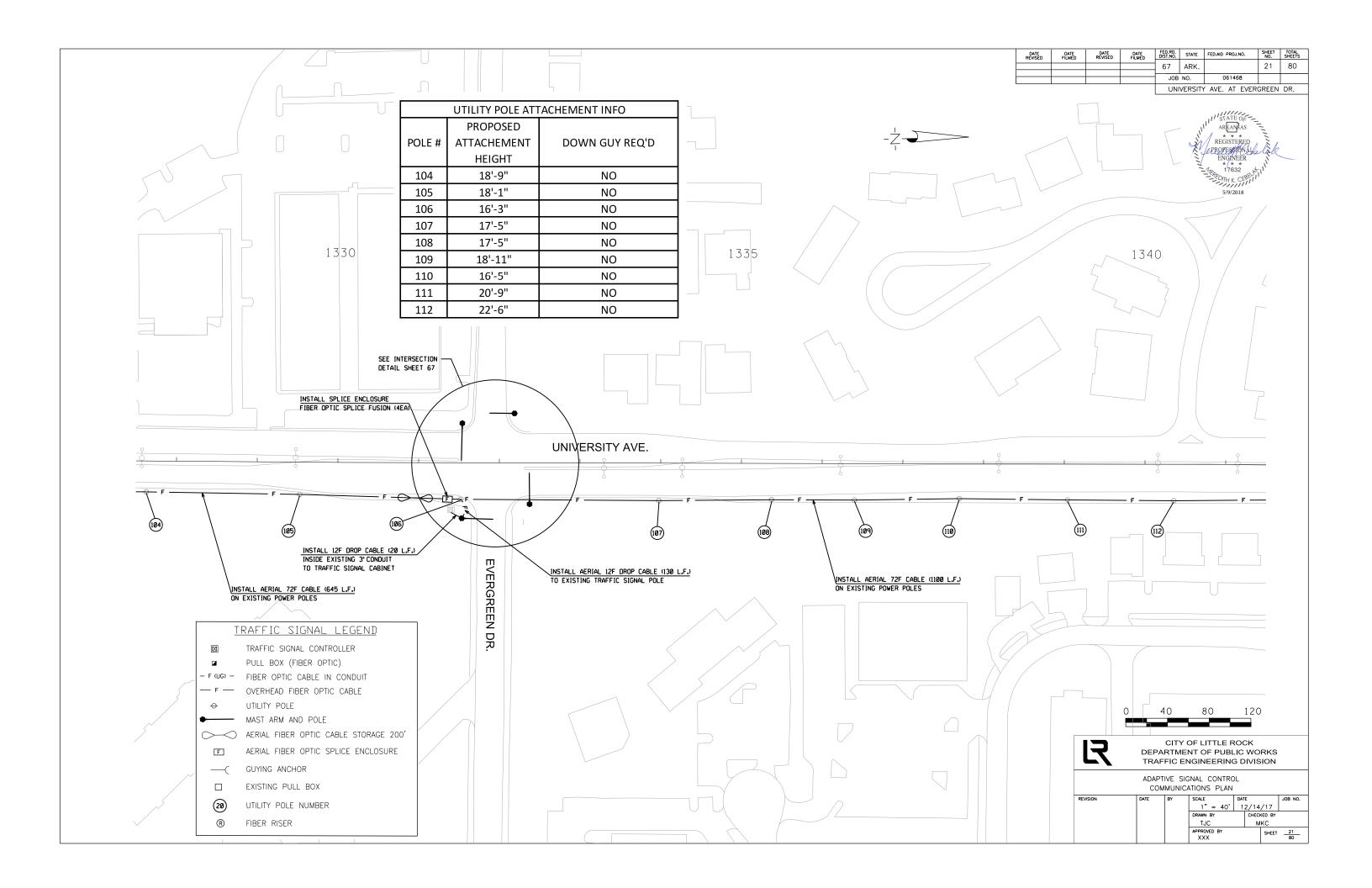


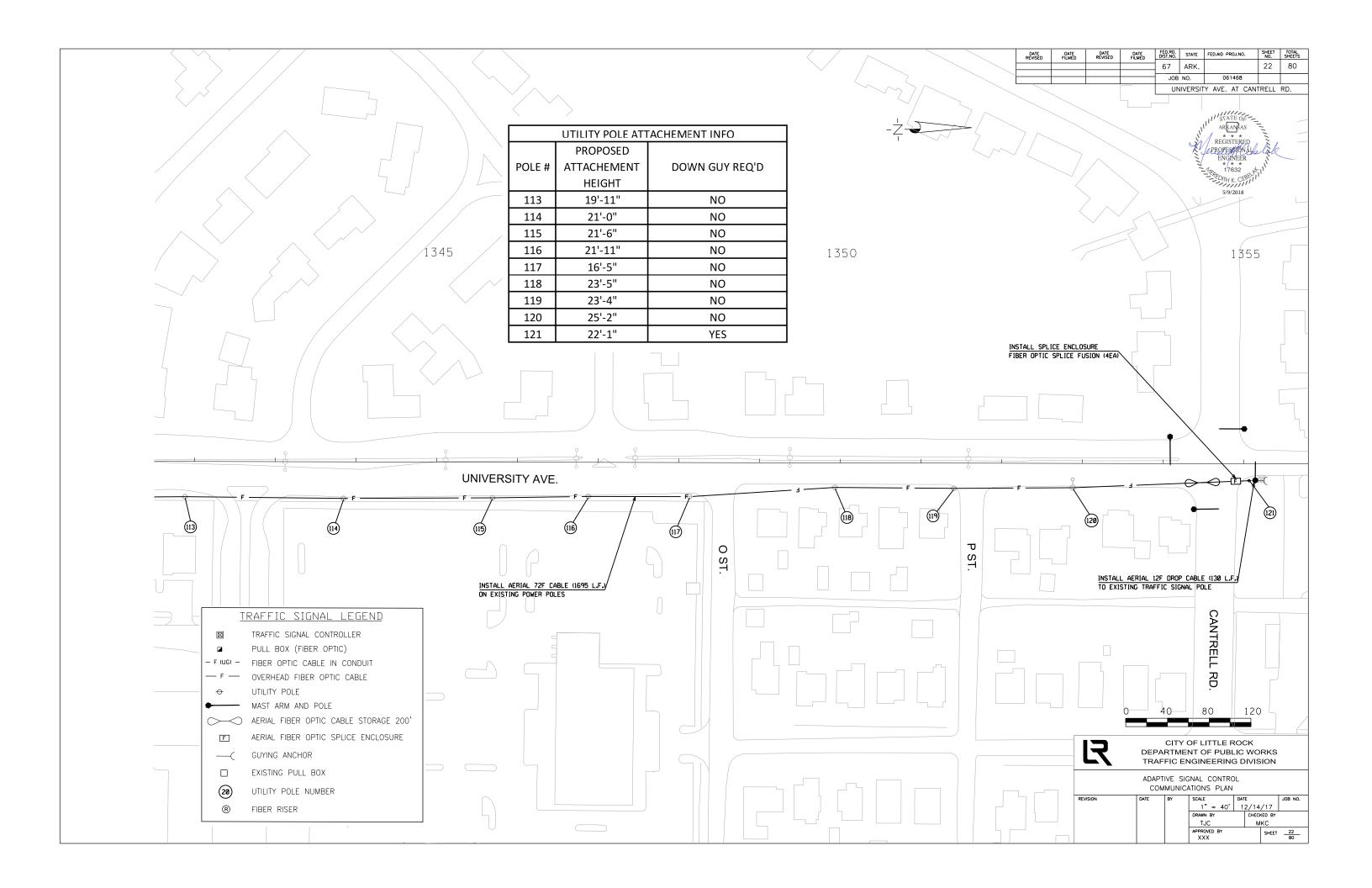


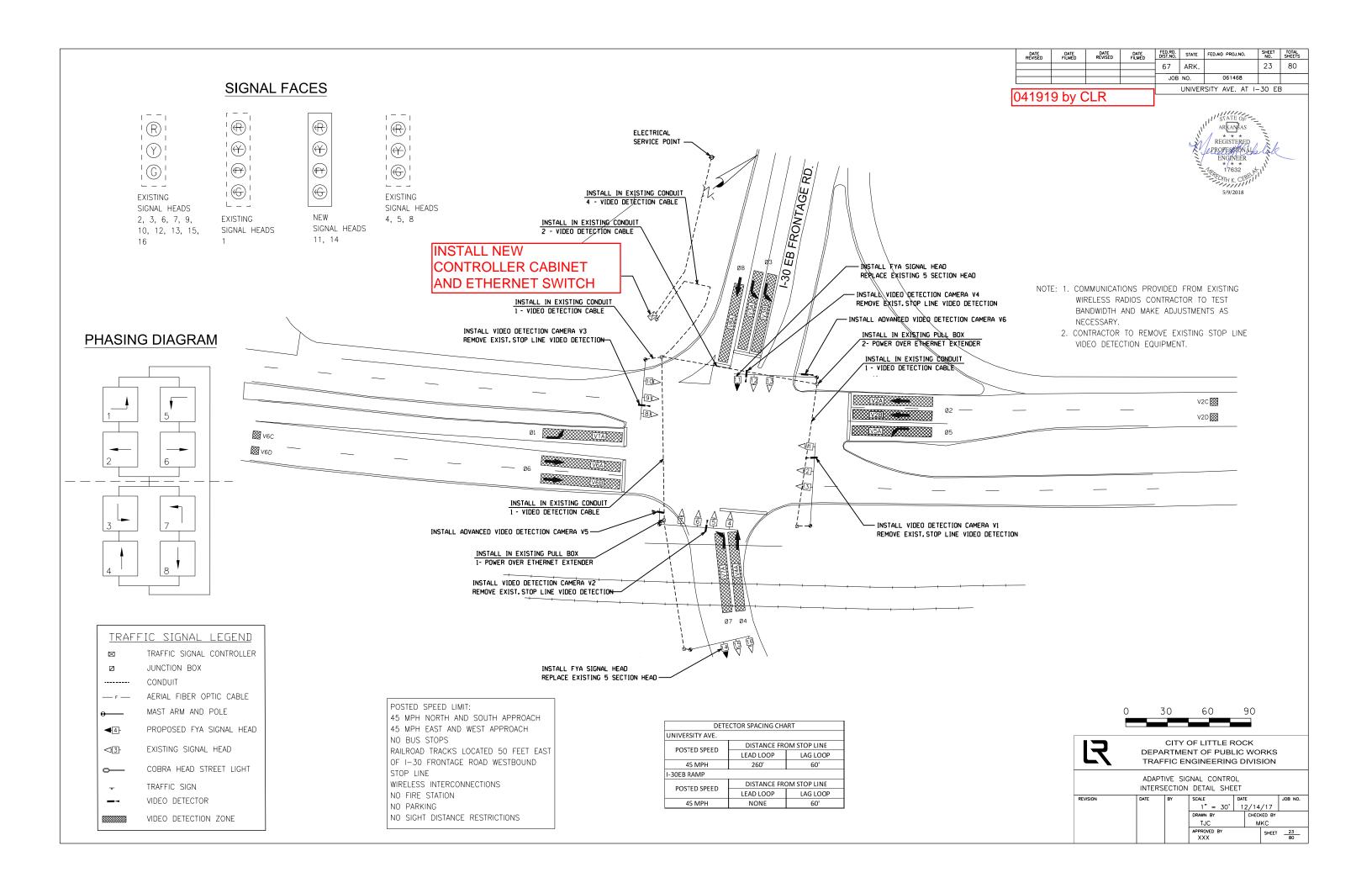












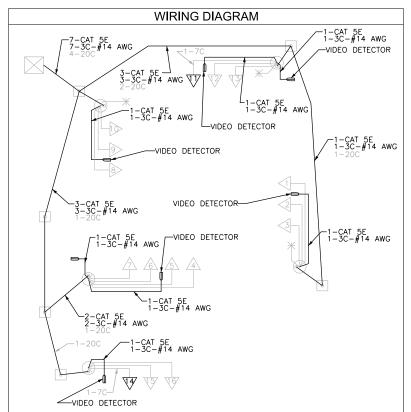
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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					UNIVER	SITY AVE. AT I-	-30 EE	3

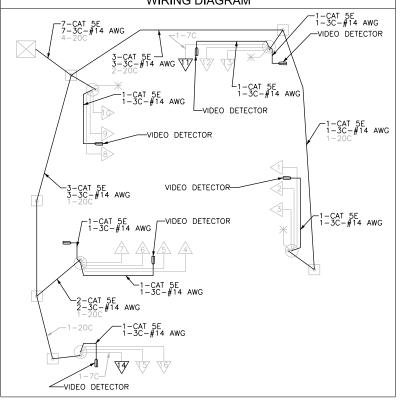
			D	ETECTO	OR SYST	TEM DESC	RIPTION				
				HARI	DWARE	INPUTS	PROG	RAM ASS	IGNMENTS		
PULASK	(I COUNTY - UNIVERSITY A	VE. /I-30 EI	B RAMP	В	Y SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB 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.	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	сомв.	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	сомв.	11		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	сомв.	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	15		12	V16	8	8		CAMERA V2	23"	
V = Vehicle	e input				SPARE:	1, 7, 9, 11	, 13, 15				

D = System or Auxiliary input

P = Pedestrian input

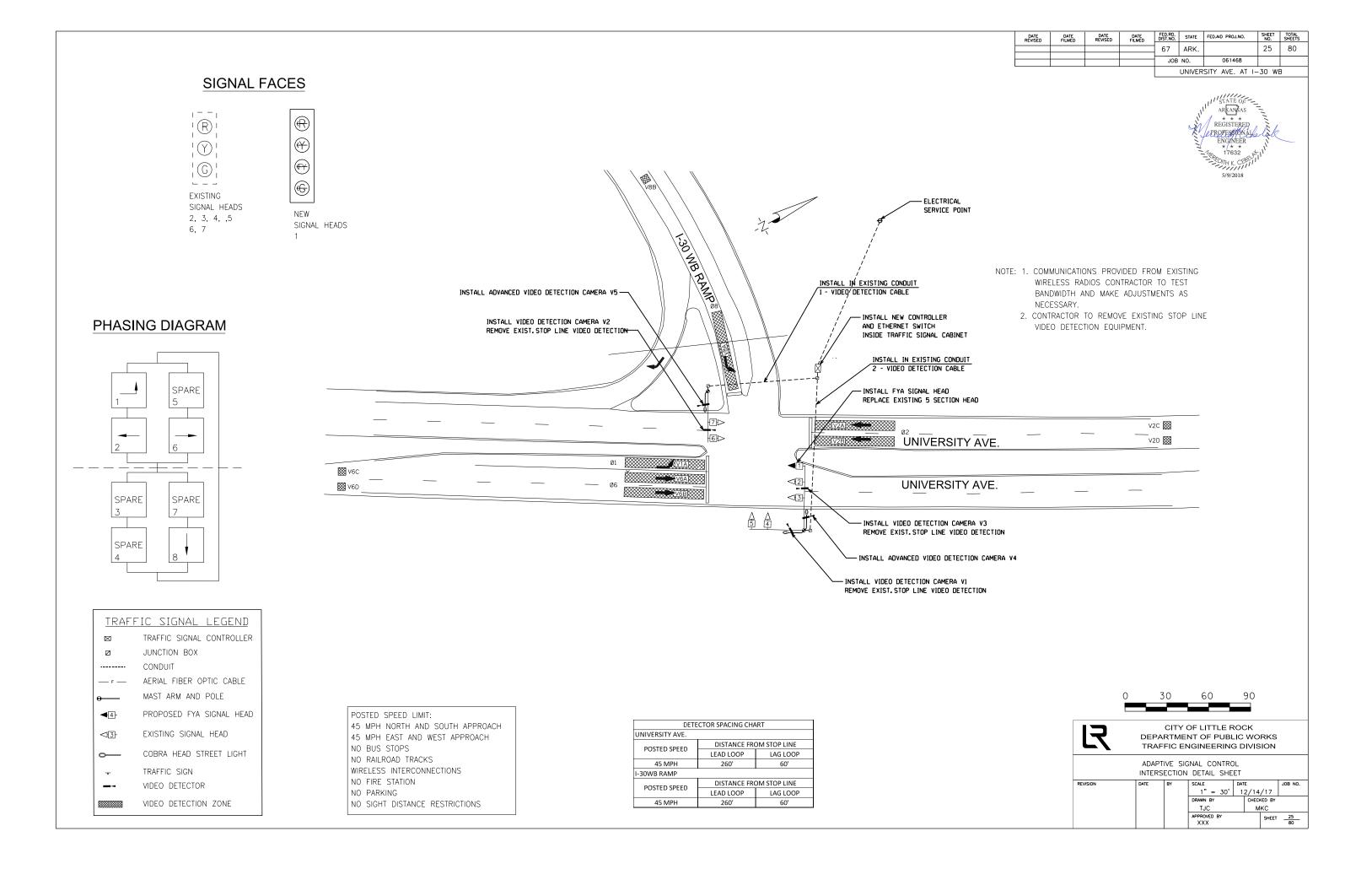
Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rythm Engineering.





	UNIVERSITY AVE AND I-30 EB FRONTAGE RD																
							INTERVAL	CHART FOR	NORMAL (PERATION	l						FLASH
SIGNAL 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 <-	R <-	R <-	R <-	R <-	R <-	R <-
2 & 3	R	R	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
4 & 5	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	G <-	*	G <-	*	R <-	R <-	R <-	R <-	R <-
6 & 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 & 10	R	R	R	R	G	**	G	**	R	R	R	R	R	R	R	R	R
11 & 14	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	G <-	*	FY<-	***	G <-	*	FY<-	***	R <-
12, 13, 15 & 16	R	R	R	R	R	R	R	R	R	R	R	R	G	**	G	**	R
*	DENOTES	GREEN OR	YELLOW AI	RROW DEPE	NDING ON	NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW B	ALL DEPENI	DING ON N	EXT PHASE			•





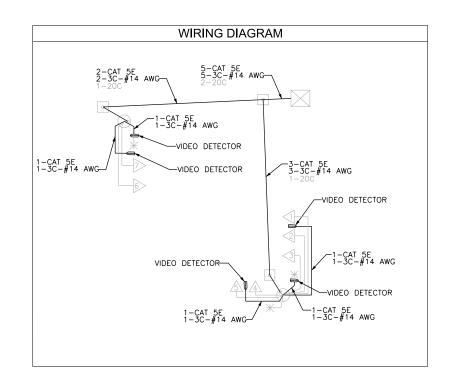
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		26	80		
				JOB	NO.	061468				
		•		UNIVERSITY AVE. AT 1-30 WB						



			D	ETECTO	OR SYST	EM DESCR	RIPTION				
				HARD	WARE I	NPUTS BY	PROC	SRAM ASS	IGNMENTS		
PULASK	I COUNTY - UNIVERSITY A	√E. /I-30 W	B RAMP		SUPPL	IER	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 V3	23"
V2A	SB THRU LANES	сомв.	2		6	V10	2	2		CAMERA V2	23"
V2B	SB THRU LANES	COMB.	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	COMB.	6		4	V14	6	6		CAMERA V3	23"
V6B	NB THRU LANE	COMB.	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	EB ADV.	LOCAL	10		11	V8	8			CAMERA V1	23"
V = Vehicle	input				SPARI	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 RAMI)	
SIGNAL		INTERVAL	. CHART FOR	NORMAL O	PERATION		
FACE	1 & 6	CLR	CLR	FLASH SEQ			
1	G <-	***	R <-	R <-			
2 & 3	G	**	R	R			
4 & 5	R	R	R	R	G	**	R
6 & 7	R	R	G	**	R	R	R

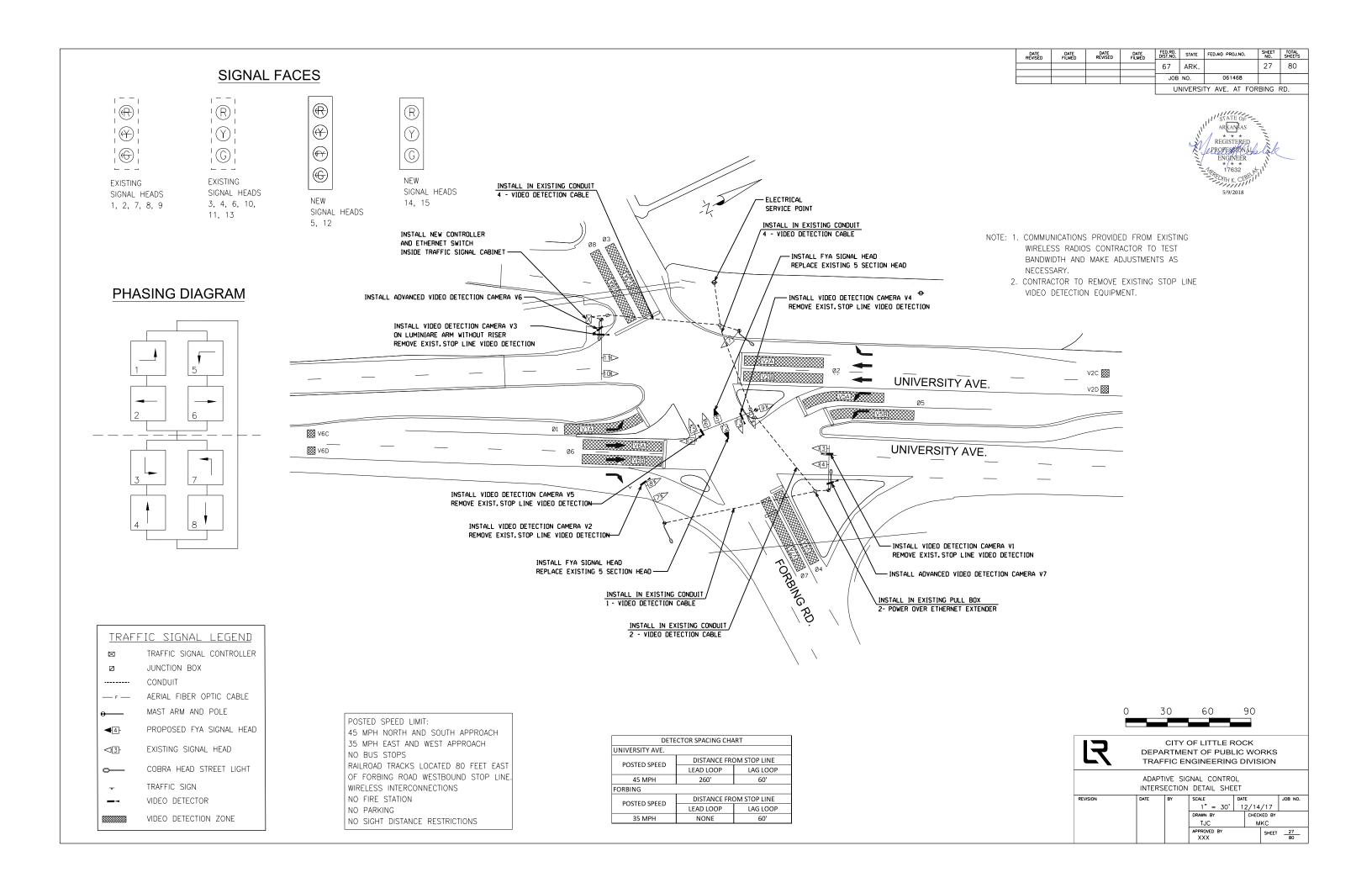
- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE



CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

			00			
REVISION	DATE	BY	SCALE	DATE		JOB NO.
			N.T.S.	12/14	1/17	
			DRAWN BY	CHEC	KED BY	
			TJC	l N	IKC	
			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			
				67	ARK.		28	80			
				JOB	NO.	061468					
				UNIVERSITY AVE. AT FORBING RD.							

REGISTERED
PROFESIONAL LAR
ENGINEER
17632

			DI	ETECTO	R SYST	EM DESCI	RIPTION				
						INPUTS			IGNMENTS		
PULA	ASKI COUNTY - UNIVERSITY	AVE. /FOR	BING	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.	LOCAL	4		5	V2(D1)	2			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	сомв.	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	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"
V8A	EB THRU LANE	сомв.	15		12	V16	8	8		CAMERA V5	23"

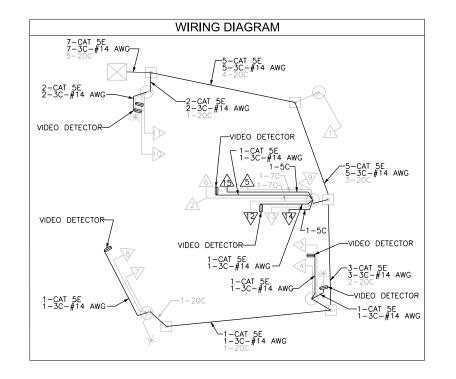
V = Vehicle input

D = System or Auxiliary input

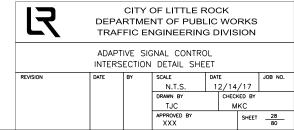
P = Pedestrian input

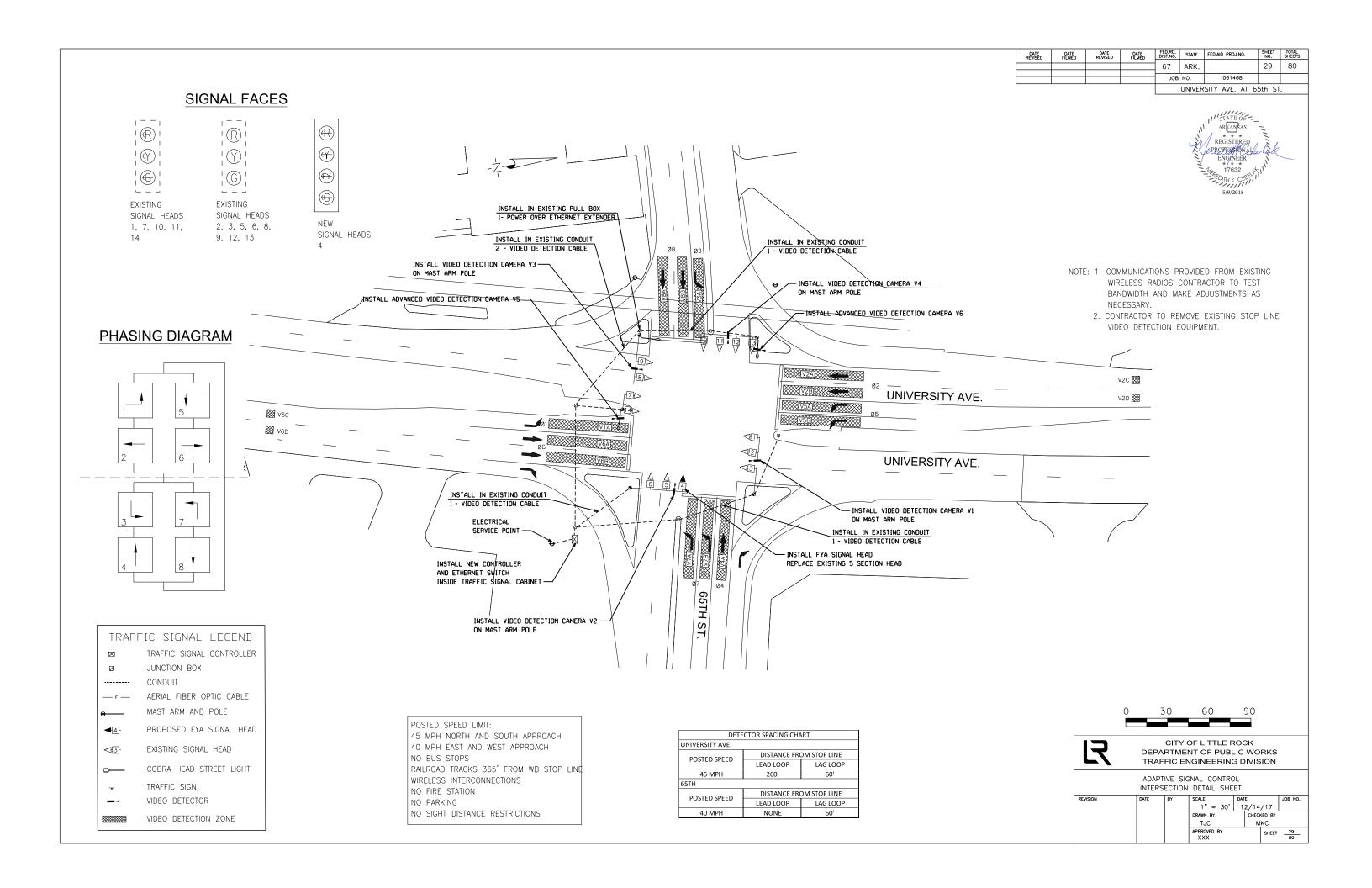
Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.

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



							ι	JNIVERSIT	Y AVE AND I	ORBING R	D						
SIGNAL							INTERVAL	CHART FO	R 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 <-	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 <-	G <-	*	G <-	*	FY<-	***	FY<-	***	R <-						
6 & 15	R	R	R	R	R	R	R	R	R	R	G	**	R	R	G	**	R
7,8&9	G <-	*	R <-	R <-	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	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 FREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE ** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE *** DENOTES FLASHING 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		
					UNIVER	SITY AVE. AT 6	5th ST	

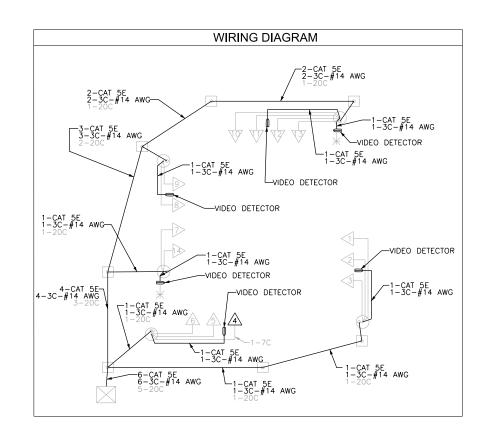


			D	ETECTO	R SYST	EM DESC	RIPTION				
				HARE	OWARE	INPUTS	PROG	SRAM ASS	IGNMENTS		
PUI	LASKI COUNTY - UNIVERSI	TY AVE. /65	TH	В	Y SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	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.	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"
V4A	WB THRU LANE	сомв.	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"

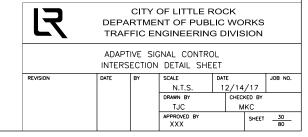
V = Vehicle input D = System or Auxiliary input

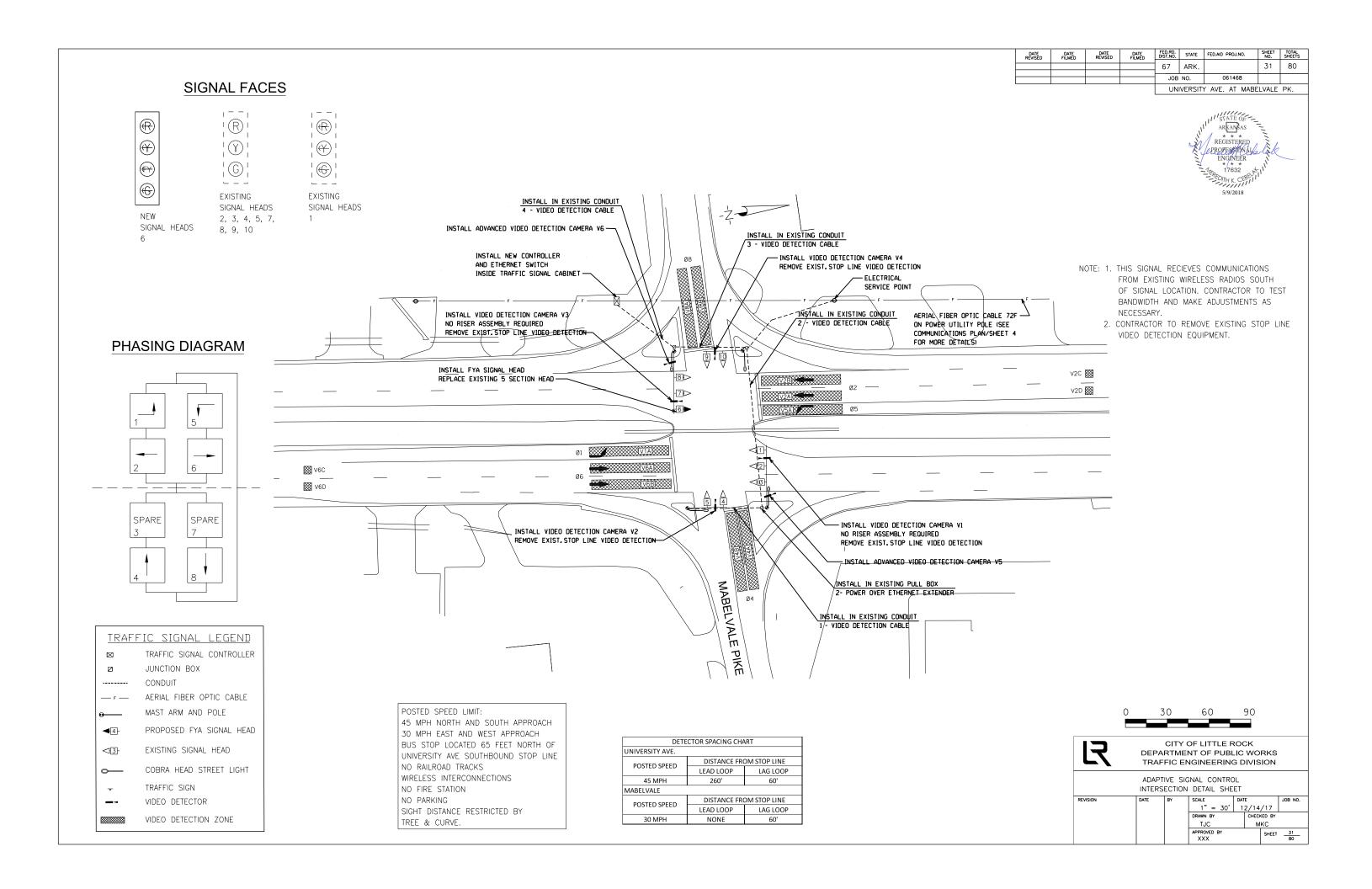
P = Pedestrian input

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.



								UNIVERS	ITY AVE AN	D 65TH ST							
SIGNAL							INTERVAL	CHART FOR	R 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	G	**	R	R	G	**	R	R	R	R	R	R	R	R	R
4	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	G <-	*	G <-	*	FY<-	***	FY<-	***	R <-
5 & 6	R	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 <-	R <-	R <-	R <-	R <-	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 AF	RROW DEP	ENDING ON	NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW BA	ALL DEPEN	DING ON N	EXT PHASE			
***	DENOTES	FLASHING \	YELLOW AR	ROW OR Y	ELLOW ARE	ROW DEPE	NDING 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.		32	80
				JOB	NO.	061468		

UNIVERSITY AVE. AT MABELVALE PK.

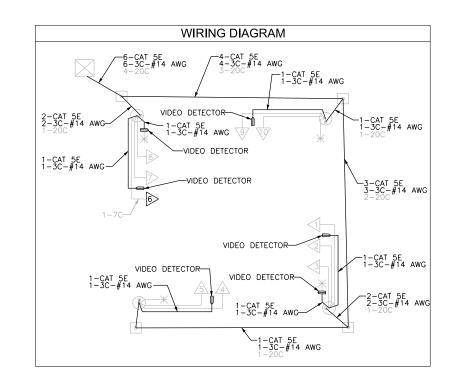


			DE	ТЕСТО	R SYST	EM DESCI	RIPTION				
						INPUTS			IGNMENTS		
PULAS	KI COUNTY - UNIVERSITY	AVE. /MABE	LVALE	В	Y SUPP	LIER	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1		2	V1	1	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

D = System or Auxiliary input

P = Pedestrian input

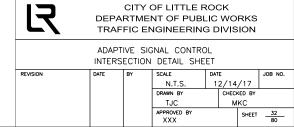
Add - Note: "Amp CHN#" refers to the rack output position. This is wired to controller input detector number which is programmed to actuate the designated phase. Example V9 = system detector 1, V10 = system detector 2. Channel assignments for detection to be coordinated and configured with Rhythm Engineering.

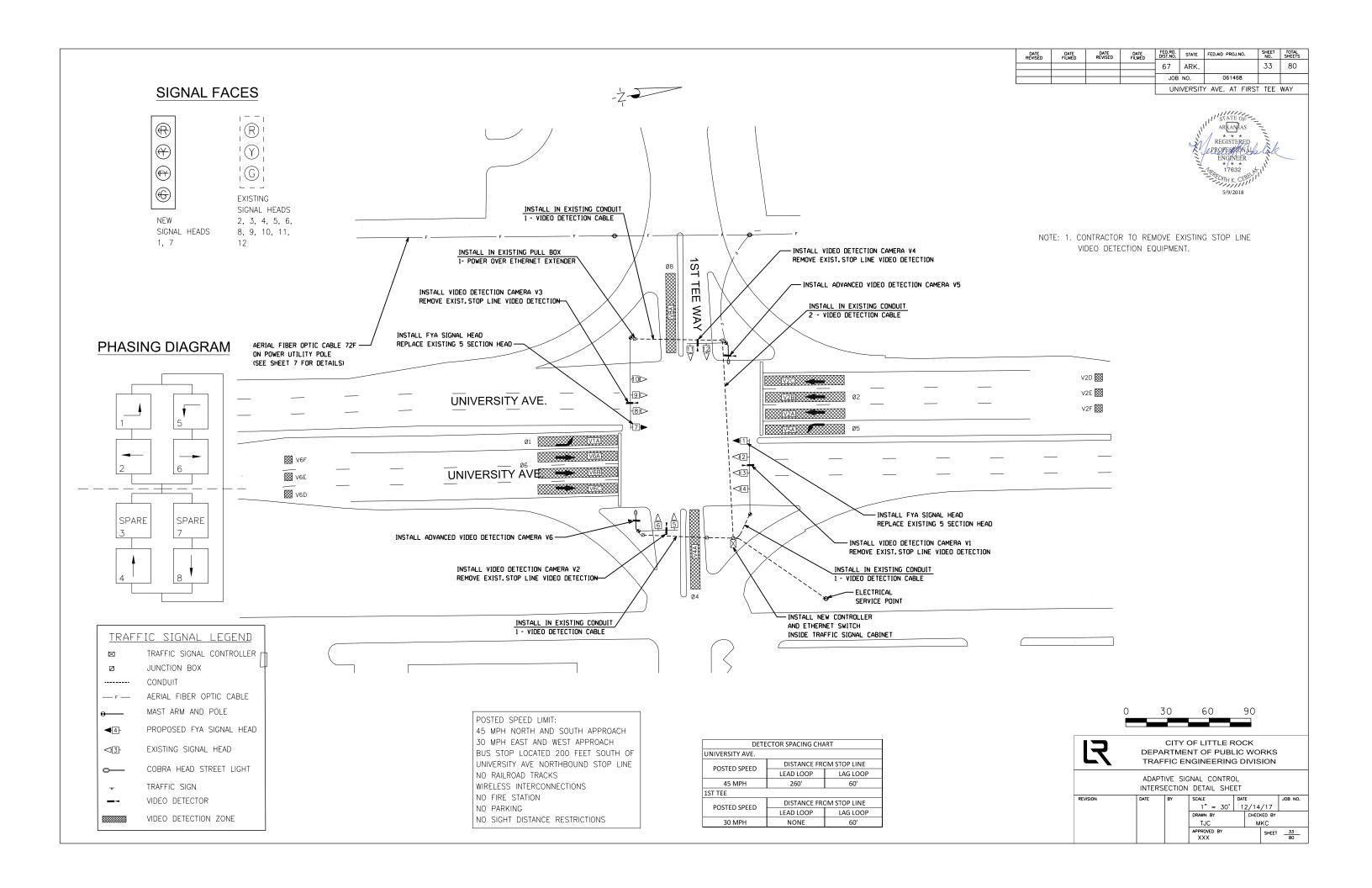


				1U	VIVERSITY A	AVE AND M	ABELVALE	PK				
SIGNAL				INTERVAL	CHART FOR	NORMAL (OPERATION					FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	4 & 8	CLR		SEQ
1	G <-	*	G <-	*	R <-	R <-	R <-	R <-	R <-	R <-		R <-
2 & 3	R	R	G	**	R	R	G	**	R	R		R
4 & 5	R											
6	G <-	*	FY<-	***	G <-	*	FY<-	***	R <-	R <-		R <-
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
- PENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
 DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE 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.		34	80		
				JOB	NO.	061468				
		•		UNIVERSITY AVE. AT FIRST TEE WAY						

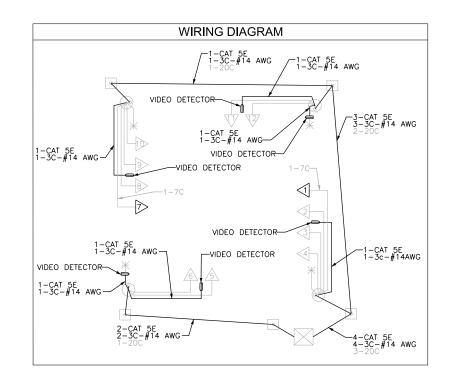


			DE	ETECTO	R SYST	EM DESCI	RIPTION				
					HARDWARE INPUTS		PROGRAM ASSIGNMENTS				
PULASKI COUNTY - UNIVERSITY AVE. /1ST TEE				BY SUPPLIER		LOCAL		MASTER		TUBE	
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	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	сомв.	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"
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	сомв.	11		4	V14	6	6		CAMERA V1	23"
V6C	NB THRU LANE	COMB.	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			

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.



				UNIV	ERSITY AVE	AND FIRST	TEE WAY				
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

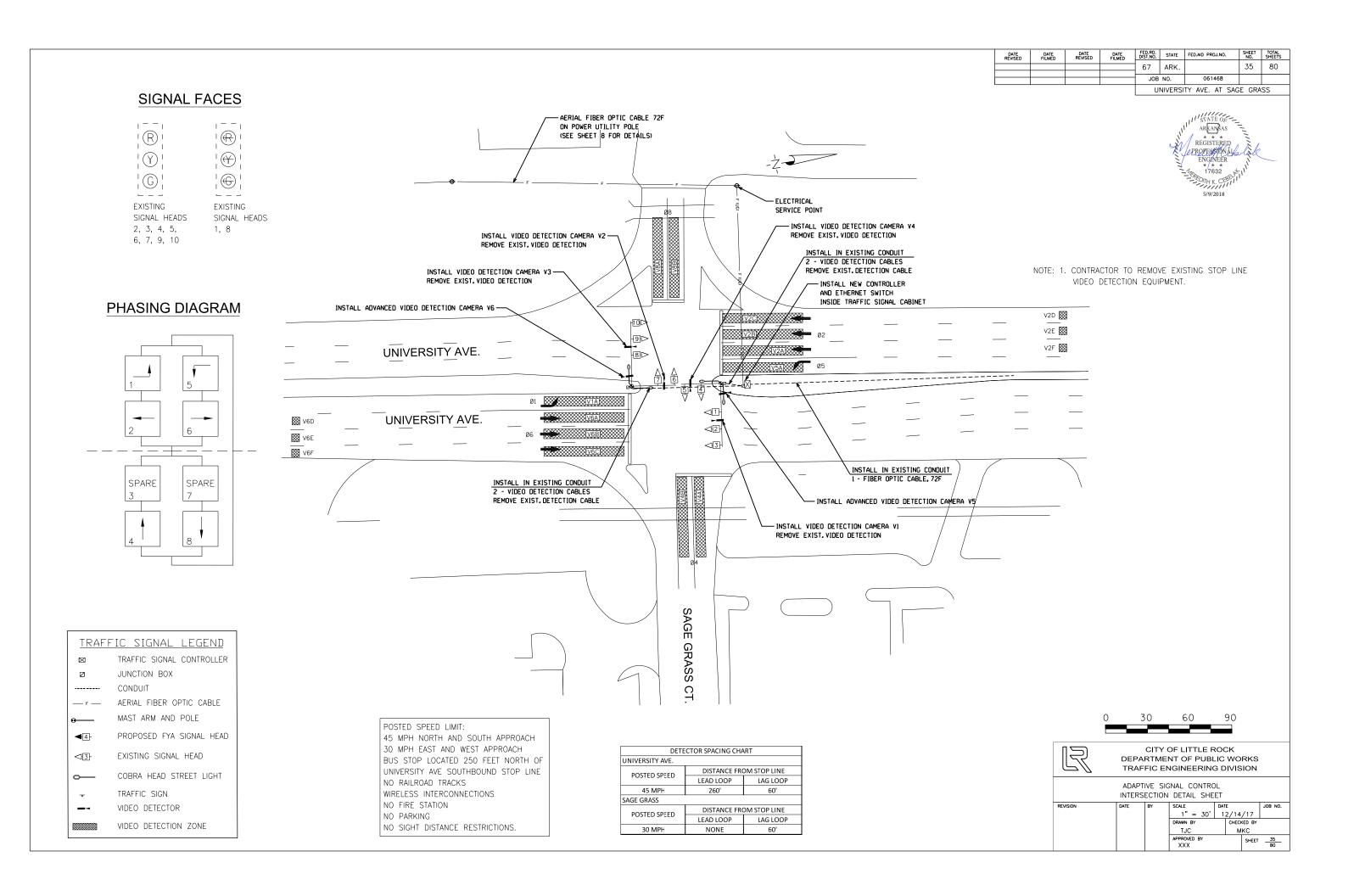
 *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE



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	l N	IKC						
			APPROVED BY		SHEET	34					
			l 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

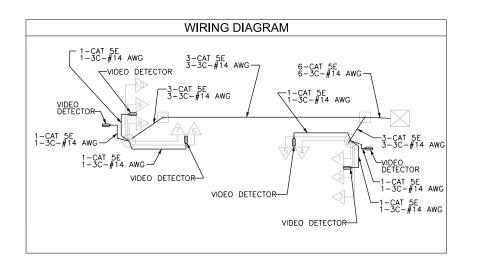


				ETECTO	דטעט מר	EM DESCR	UDTION				
						INPUTS		DANA ACC	IGNMENTS		1
DI II AC	VI COUNTY LINUVERGITY	AVE /646E	CDACC								
PULAS	KI COUNTY - UNIVERSITY /	AVE. /SAGE	GRASS	-	SY SUPF	LIEK	LO	CAL	MASTER	0014145170	TUBE
				CAB	AMP	CON.		SYSTEM	SYSTEM	COMMENTS	LENGTHS
DET. ID#	LOCATION DIRECTION	TYPE	DET.	TRM#	CHN#	INP#	PHS	DET.	DETECTION		
									NUMBERS		
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 THRU LANES	сомв.	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"
V4B	WB THRU LANE	сомв.	8		14	V12	4	4		CAMERA V4	23"
V5A	SB LEFT TURN	LOCAL	10		8	V5	5			CAMERA V3	23"
V6A	NB THRU LANE	сомв.	11		4	V14	6	6		CAMERA V1	23"
V6B	NB THRU LANE	сомв.	12		4	V14	6	6		CAMERA V1	23"
V6C	NB THRU LANE	сомв.	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	сомв.	17		12	V16	8			CAMERA V2	23"
V8B	EB THRU LANE	сомв.	18		12	V16	8			CAMERA V2	23"
V = Vehicle	input			SP	ARE: 1,	7, 9 - 11, 1	.3, 15 - 10	 5			•

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	I			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

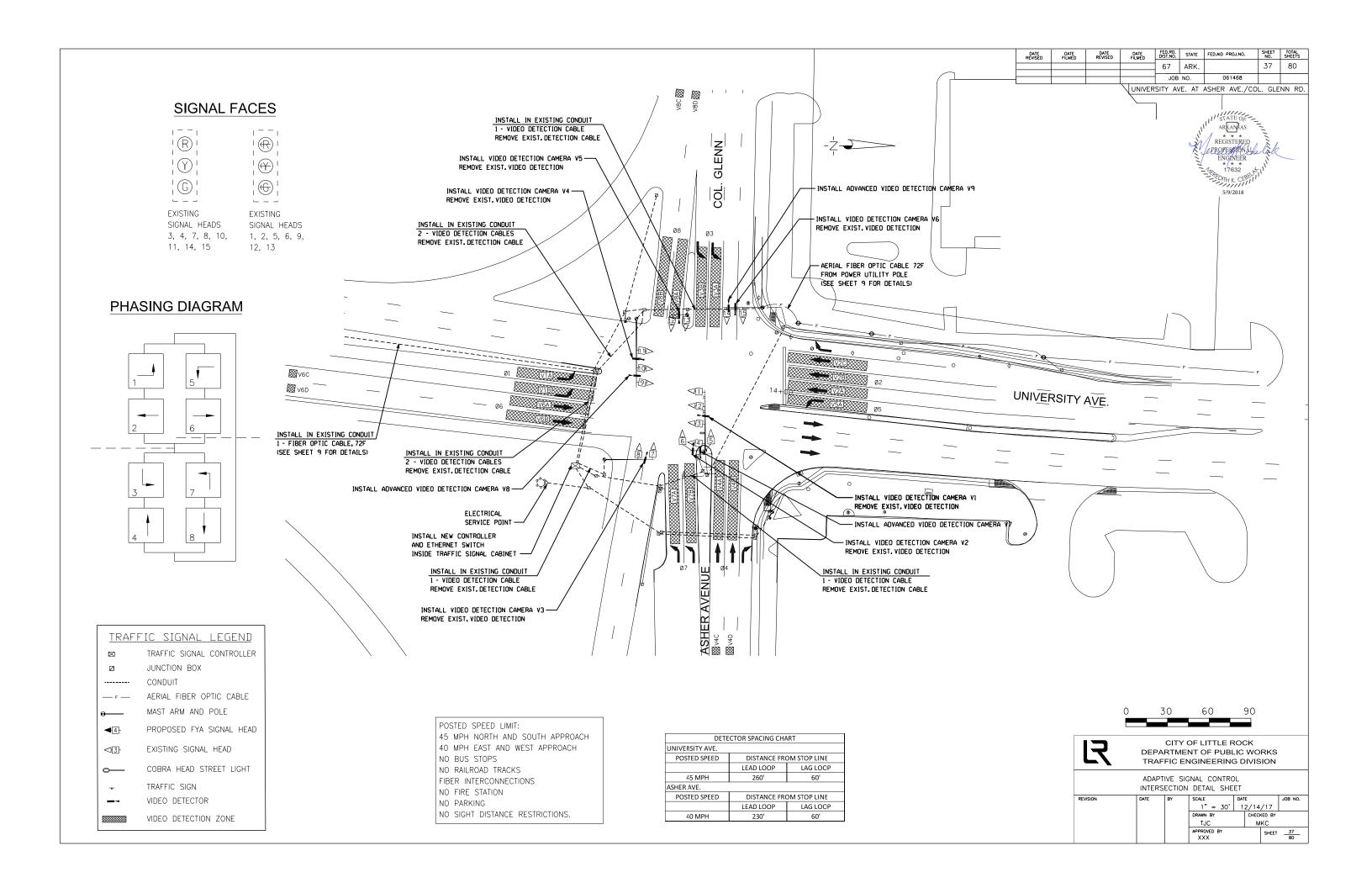
 *** DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE



CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

		0_0	00			
REVISION	DATE	BY	SCALE	DATE		JOB NO.
			N.T.S.	12/	14/17	
			DRAWN BY	С	HECKED BY	
			TJC		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		

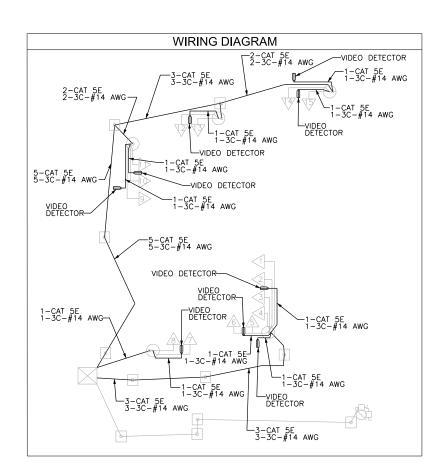
UNIVERSITY AVE. AT ASHER AVE./COL. GLENN RD.

STATE OF -
ARKANSAS
1 / * * * *
REGISTERED
ENGINEER
17632 17632
-SOITH K. CENT
5/9/2018

			DE	TECTO	R SYST	EM DESCI	RIPTION				
				HARD	WARE	INPUTS	PROG	GRAM 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				

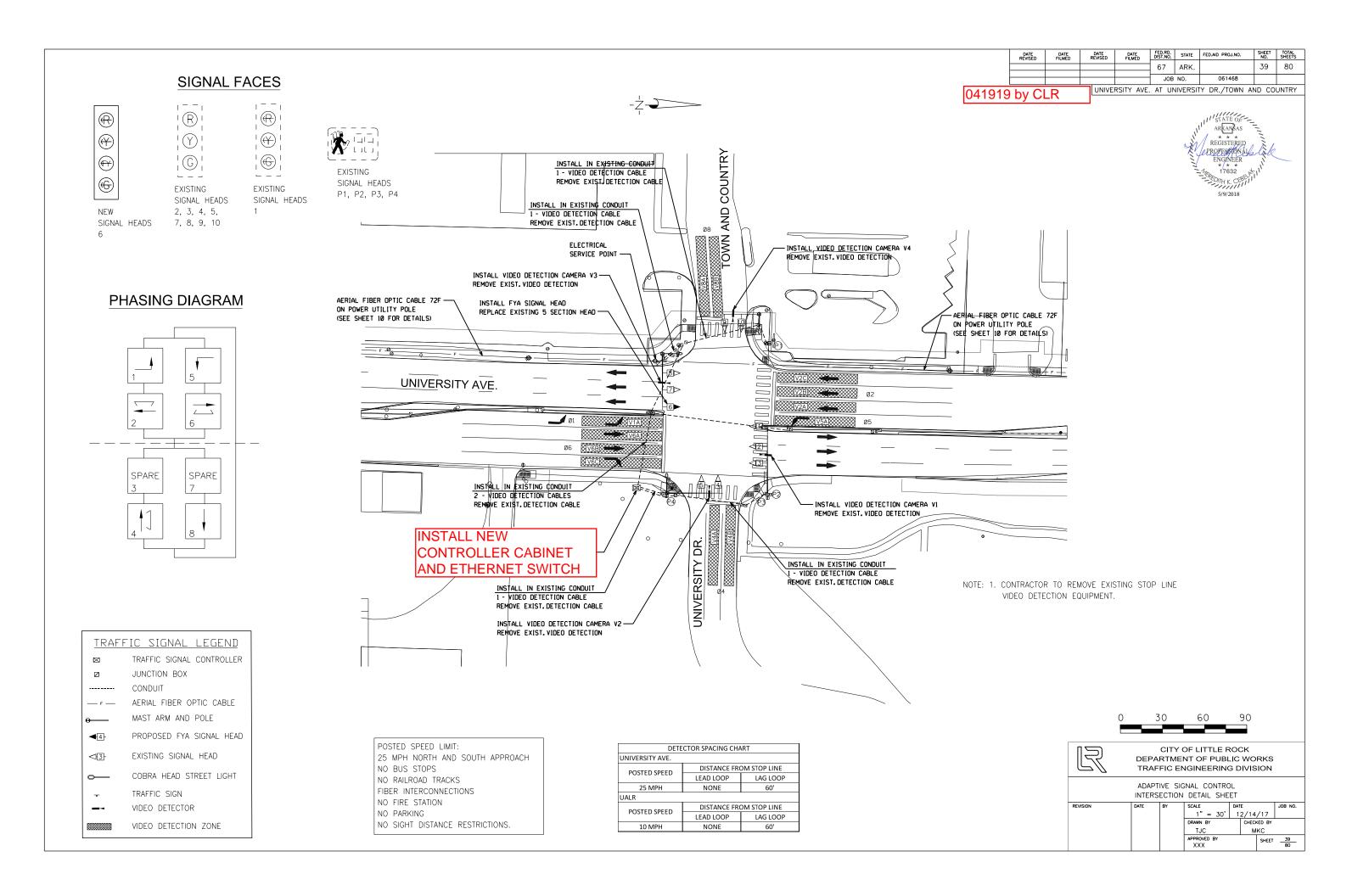
D = System or Auxiliary input

P = Pedestrian input



								UNIVERS	SITY AVE AN	ND ASHER							
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 & 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 & 6	R <-	R <-	R <-	R <-	R <-	R <-	R <-	R <-	G <-	*	G <-	*	R <-	R <-	R <-	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 <-	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 A	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 ARE	ROW DEPE	NDING ON	THE NEXT I	PHASE								

LR		RTME	OF LITTLE F NT OF PUBL IGINEERING	-IC	wo		
			NAL CONTRO	_			
REVISION	DATE	BY	SCALE	DAT	Έ		JOB NO
			N.T.S.	1	2/14	/17	
			DRAWN BY		CHECH	KED BY	
			TJC		М	KC	
			APPROVED BY			SHEET	38
			VVV			ı	90



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



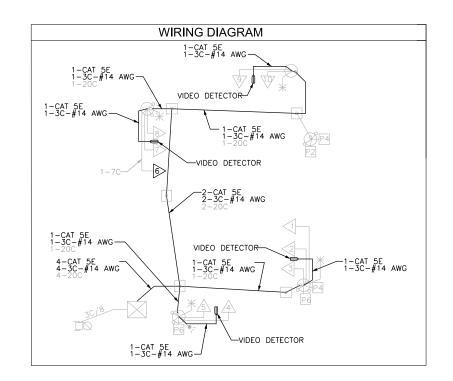
			DET	rector	SYSTE	M DESC	CRIPTION	I			
				l IN	IPUTS I	BY	PROG	GRAM ASS	SIGNMENTS		
PUI	LASKI COUNTY - UNIVERSI	TY AVE. /U	ALR	s	UPPLIE	R	LO	CAL	MASTER		TUDE
DET. ID#			DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA 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 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							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	
Р3	DW	DW	W	FDW	DW	DW	w	FDW							DW	DW	
P4	DW	DW	W	FDW	DW	DW	w	FDW							DW	DW	

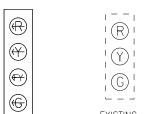


CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

			00.7.00			
REVISION	DATE	BY	SCALE	DATE		JOB NO.
			N.T.S.	12/14	/17	
			DRAWN BY	CHEC	KED BY	
			TJC	M	KC	
			APPROVED BY XXX		SHEET	<u>40</u> 80

SIGNAL FACES



NEW

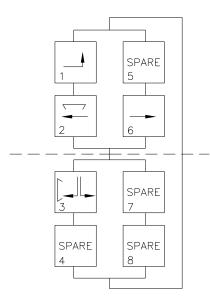
EXISTING SIGNAL HEADS

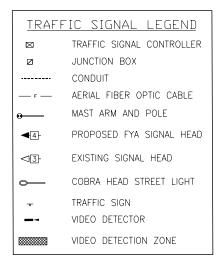
2, 3, 4, 5, 6, SIGNAL HEADS

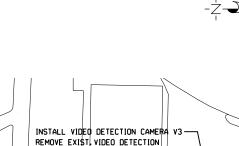
EXISTING

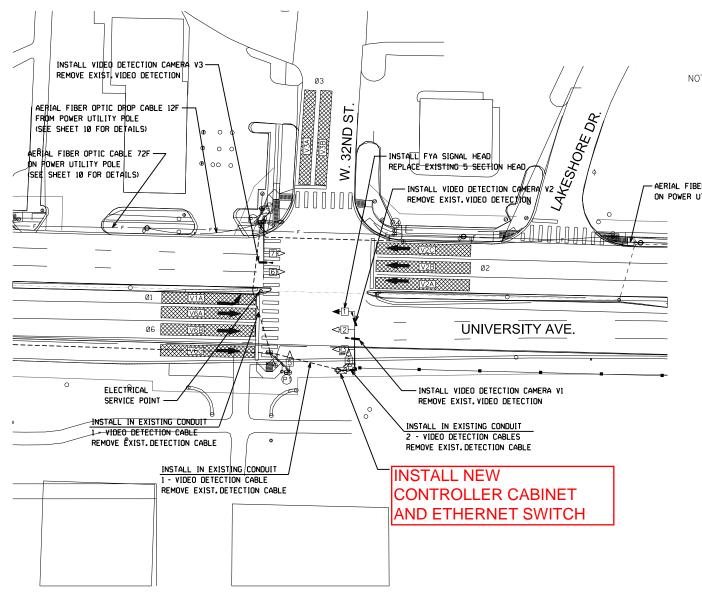
SIGNAL HEADS P1, P2, P3, P4

PHASING DIAGRAM









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'

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

041919 by CLR

REGISTERED ENGINEER

17632

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

- AERIAL FIBER OPTIC CABLE 72F 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	DATE		JOB NO.
			1" = 30'	12/14	/17	
			DRAWN BY	CHEC	KED BY	
			TJC	М	KC	
			APPROVED BY		SHEET	41
			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.		42	80
				JOB	NO.	061468		
				UI	VIVERSI'	TY AVE. AT W.	32ND	ST.

ARANYAS

ARANYAS

REGISTERED

ENGINEER

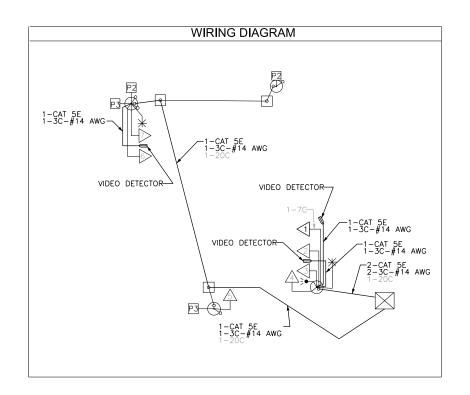
17682

			DET	rector	SYSTE	M DES	CRIPTION	١			
				INPUTS BY			PROG	RAM ASS	IGNMENTS		
PULA	ASKI COUNTY - UNIVERSITY	ID ST.	S	UPPLIE	R	LO	CAL	MASTER		TUBE	
						CON		CVCTENA	SYSTEM	COMMENTS	LENGTHS
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB		CON.	PHS	SYSTEM	DETECTION		LENGINS
				I KIVI#	CHN#	INP#		DET.	NUMBERS		
V1A	NB LEFT TURN	LOCAL	1			٧1	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"

V = Vehicle input

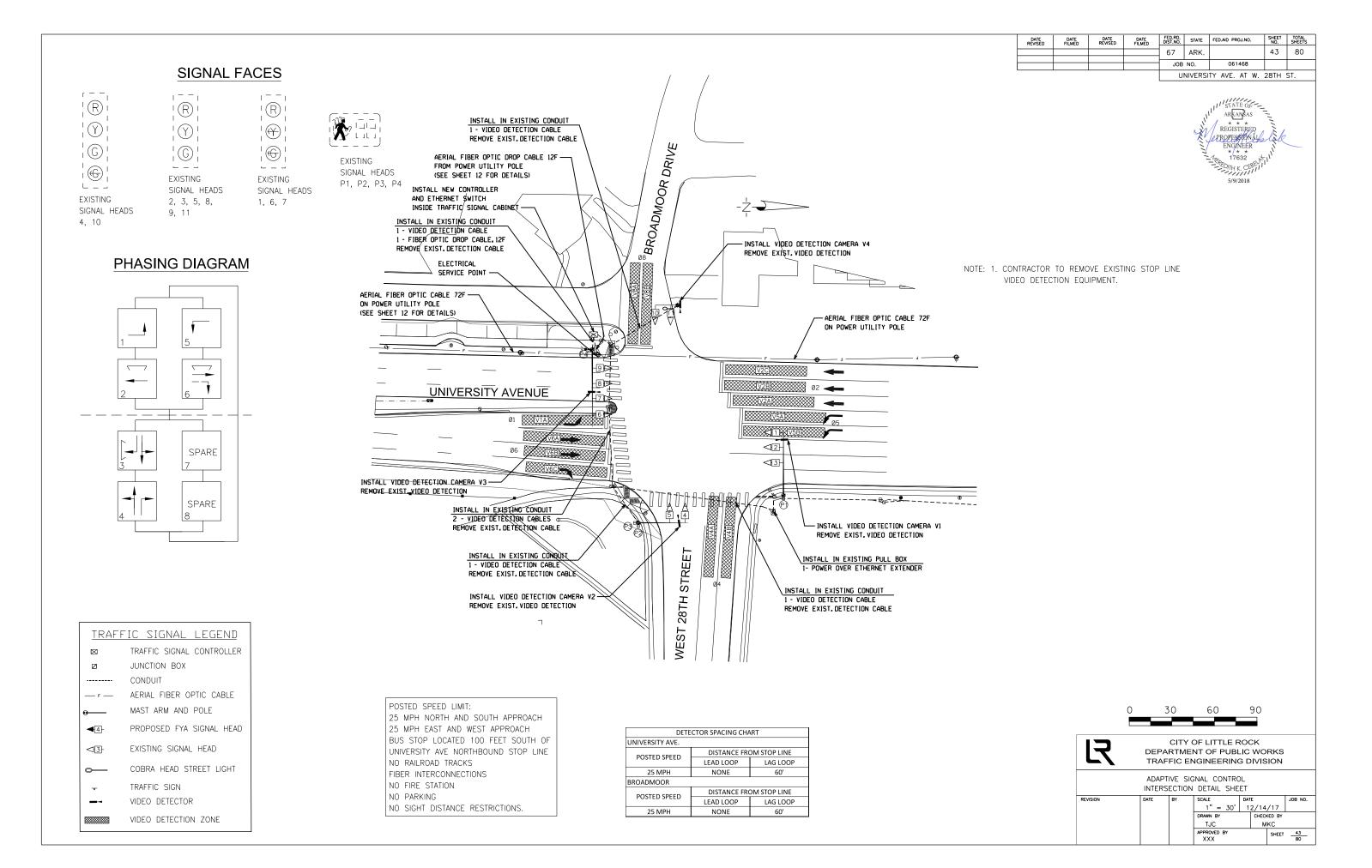
D = System or Auxiliary input

P = Pedestrian input



UNIVERSITY AVE AND 32ND ST SIGNAL INTERVAL CHART FOR NORMAL OPERATION																	
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 <-	*	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 DEPI	ENDING OF	NEXT PHA	SE	***	DENOTES	GREEN OR	YELLOW B	ALL DEPEN	DING ON N	EXT PHASE	•		
***	DENOTES	FLASHING '	YELLOW AR	ROW OR Y	ELLOW ARI	ROW DEPE	NDING ON	THE NEXT I	PHASE								

	LR		RTME	OF LITTLE F NT OF PUBL NGINEERING	-IC	wo						
				NAL CONTRO	_							
Ì	REVISION	DATE	BY	SCALE	DAT	E		JOB N				
ı				N.T.S.	1	2/14	/17					
ı		DRAWN BY CHECKED BY										
ı		TJC MKC										
ı		APPROVED BY SHFFT 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.

ARKANAAS

REGISTERED

ENGINEER

17632

ARKANAAS

ARKANAAS

REGISTERED

ENGINEER

17632

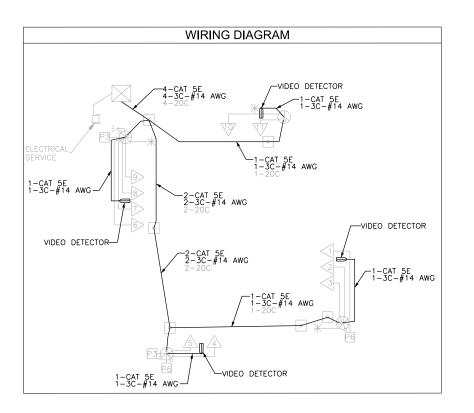
TOTAL

			D.F.3	FECTOR	CVCTE	NA DEC	DIDTION				
			DE				CRIPTION				
				l II	IPUTS I	BY	PROG	RAM ASS	IGNMENTS		
PULASK	(I COUNTY - UNIVERSITY A	VE. /BROAI	OMOOR	SUPPLIER			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"
V4B	WB 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"

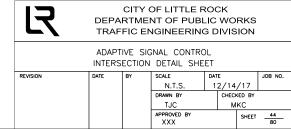
V = Vehicle input

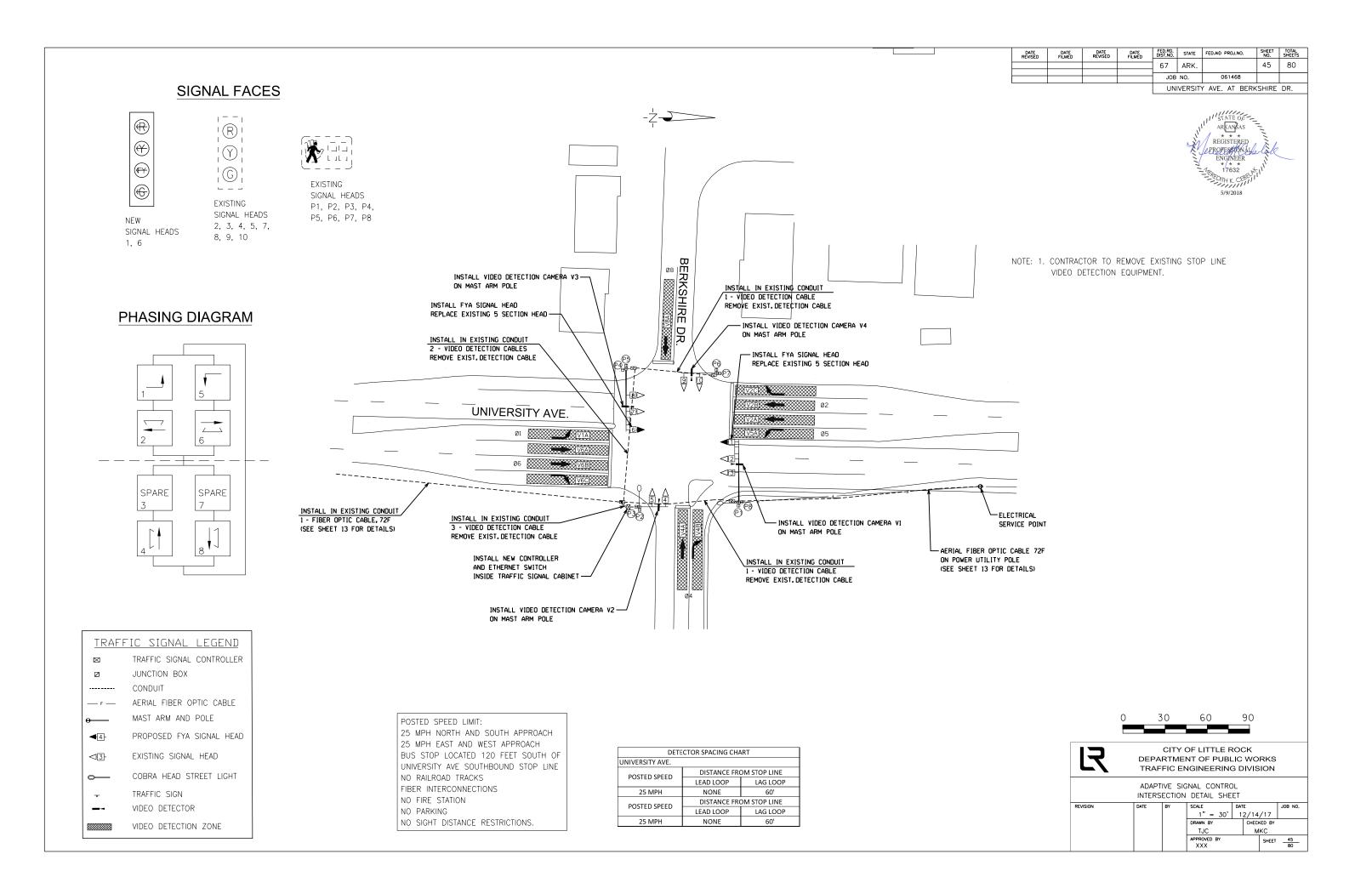
D = System or Auxiliary input

P = Pedestrian input



								UNIVERSI	TY AVE ANI	D 28TH ST							
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
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	
Р3	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
P4	DW	DW	DW	DW	DW	DW	DW	DW							W	FDW	
*	DENOTES	GREEN OR	YELLOW AF	RROW DEPI	ENDING ON	NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW B	ALL DEPENI	DING ON N	EXT PHASE			





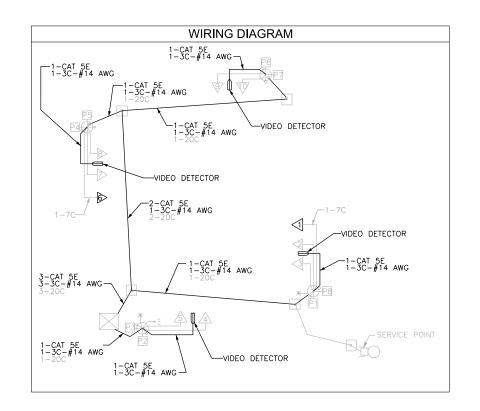
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		46	80
				JOB	NO.	061468		

UNIVERSITY AVE. AT BERKSHIRE DR.

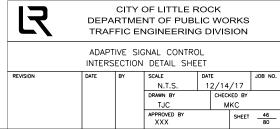


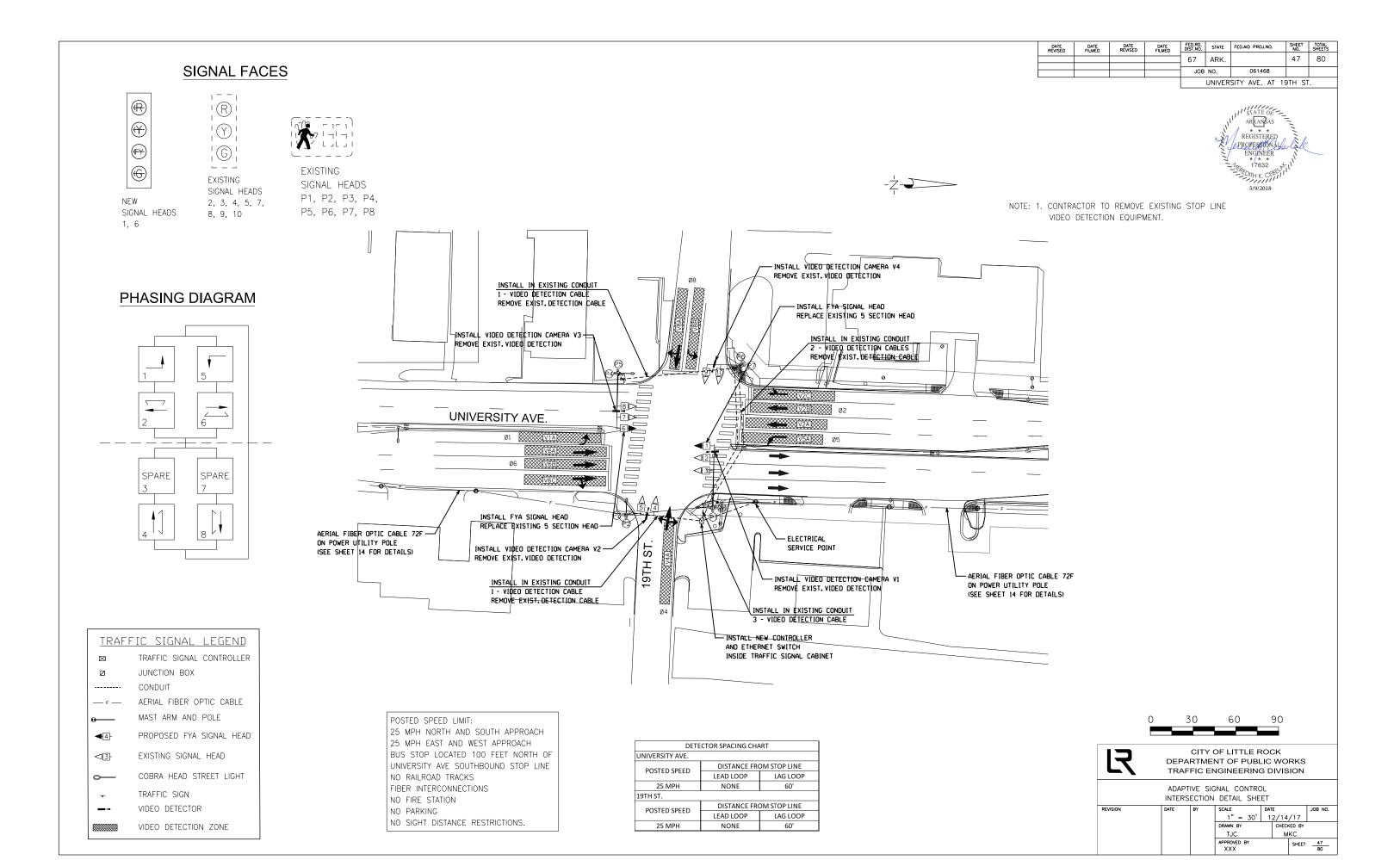
			DET	ГЕСТОР	R SYSTE	M DESC	CRIPTION	ı			
				IN	NPUTS	вү	PROG	RAM ASS	IGNMENTS		
PULAS	SKI COUNTY - UNIVERSITY	AVE. /BERK	SHIRE	SUPPLIER			LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS	
V1A	NB LEFT TURN	LOCAL	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"
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 (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 <-	*	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	
Р3	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	
*	DENOTES	GREEN OR	 YELLOW AF	RROW DEP	L ENDING ON	I NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW BA	L ALL DEPENI	DING ON N	EXT PHASE	<u> </u>		



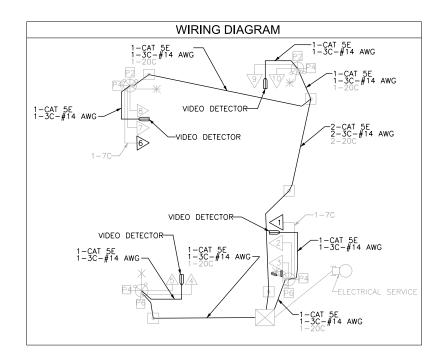


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		48	80		
				JOB	NO.	061468				
				UNIVERSITY AVE. AT 19TH ST.						



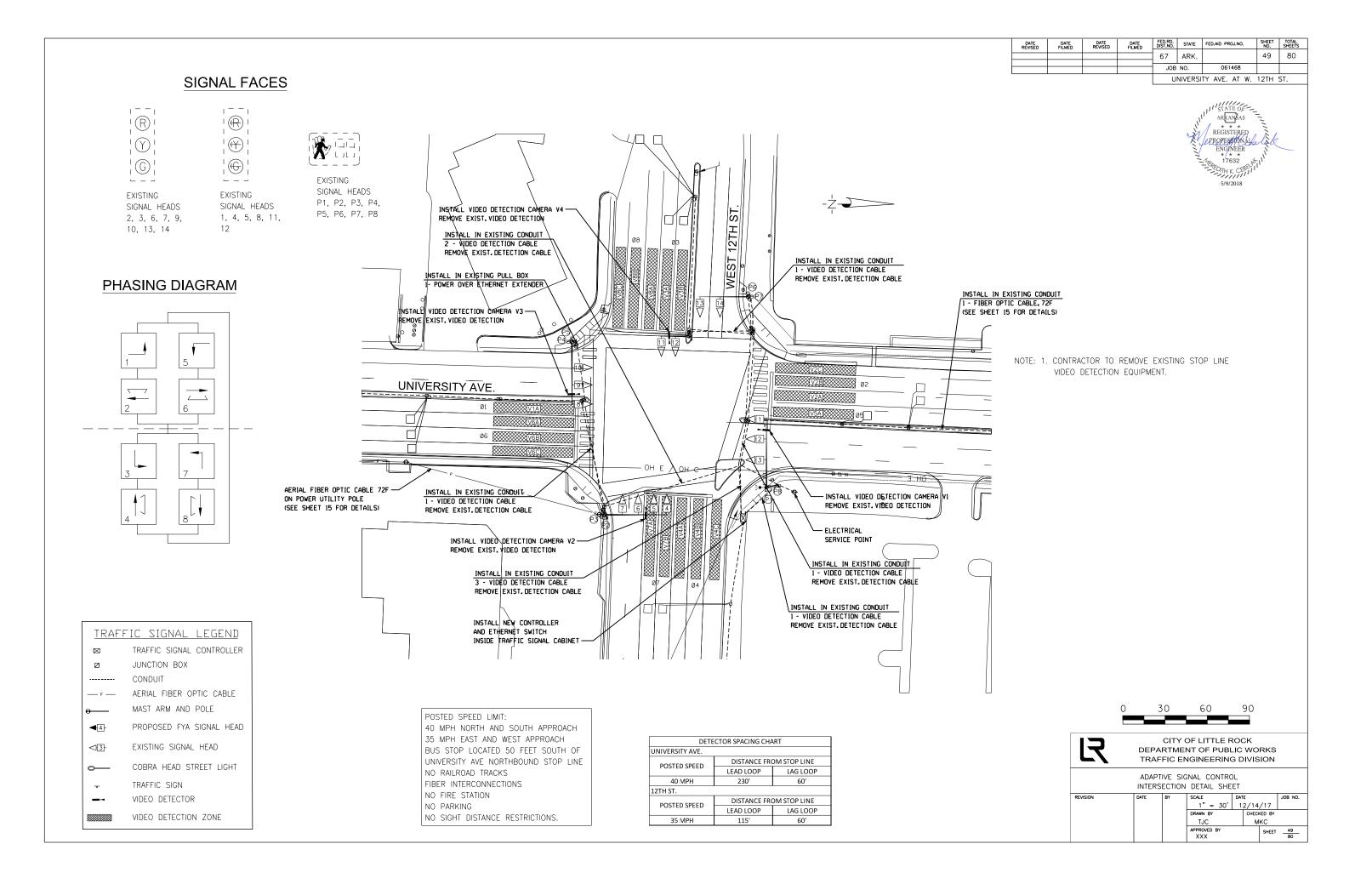
			DE ⁻	TECTOF	SYSTE	M DES	CRIPTION	J			
				II.	IPUTS I	ВΥ	PROG	SRAM ASS	IGNMENTS		
PULA	ASKI COUNTY - UNIVERSITY	/ AVE. /19T	H ST.	S	UPPLIE	R	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	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 (PERATION	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	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	
								**									

LR		RTME	OF LITTLE F NT OF PUBL NGINEERING	-IC	wo		
			NAL CONTRO	_			
REVISION	DATE	BY	SCALE	DAT	E		JOB NO
			N.T.S.	1	2/14	/17	
			DRAWN BY		CHECH	KED BY	
			TJC		М	KC	
			APPROVED BY			SHEET	48



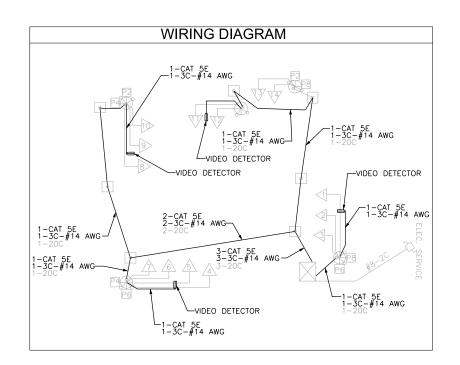
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		50	80
				JOB NO.		061468		
				U	NIVERSI	TY AVE. AT W.	12TH	ST.



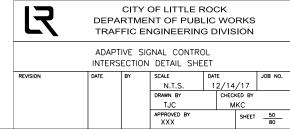
			DE	ГЕСТОР	SYSTE	M DES	CRIPTION	J			
				11	NPUTS I	ВҮ	PROC	GRAM ASS	IGNMENTS		
PULA	ASKI COUNTY - UNIVERSITY	/ AVE. /12T	H ST.	S	UPPLIE	R	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	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"
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"

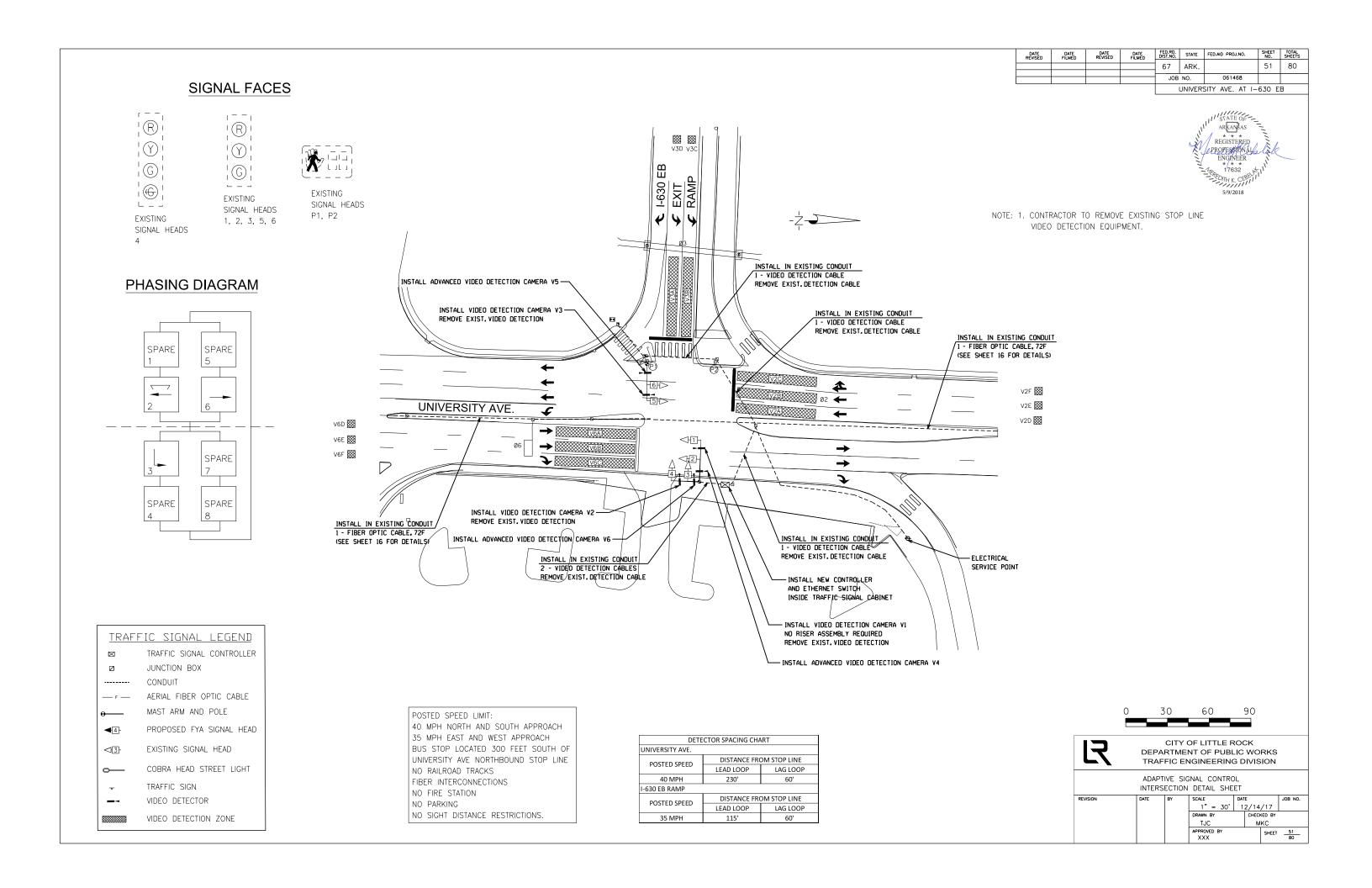
D = System or Auxiliary input

P = Pedestrian input



									TY AVE AN								
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 <-	*	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	
	!		YELLOW AF					**		GREEN OR	YELLOW B	ALL DEPENI	DING ON N	EXT PHASE			



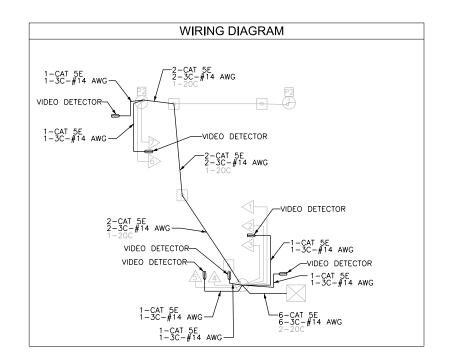


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS		
				67	ARK.		52	80		
				JOB	NO.	061468				
				UNIVERSITY AVE. AT 1-630 EB						



			D	FTFCTC	R SYST	EM DESCI	RIPTION				
						INPUTS		SRAM ASS	IGNMENTS		
PULASK	I COUNTY - UNIVERSITY AV	√E. /I-630 E	B RAMP	В	Y SUPP	LIER	LO	CAL	MASTER		
DET. ID#	LOCATION DIRECTION	ТҮРЕ	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V2A	SB THRU LANES	сомв.	1		6	V10	2	2		CAMERA V3	23"
V2B	SB THRU LANES	сомв.	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	COMB.	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			
√ = Vehicle	input			- 5	PARE:	1 - 2, 7 - 8	, 11 - 16				

D = System or Auxiliary input

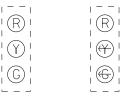


		UNIVERSIT	Y AVE AND I-630 EB								
SIGNAL	IN	ITERVAL CHART FOR	NORMAL OPERATION	ON							
FACE	2&6	CLR	3	CLR	FLASH SEQ						
1 & 2	G	**	R	R	R						
3	R	**	R								
4	R	**	R								
5 & 6	G	**	R	R	R						
P1	W	FDW	DW	DW	BLK						
P2	W	FDW	DW	DW	BLK						
*	DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE										
**	DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE										
***	DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON THE NEXT PHASE										

LR	DEPA	RTME	OF LITTLE F NT OF PUBL IGINEERING	_IC	wo					
			NAL CONTRO	_						
REVISION	DATE	BY	SCALE	DAT	Έ		JOB NO.			
			N.T.S.	1	2/14	/17				
DRAWN BY CHECKED BY										
			TJC		М	KC				
APPROVED BY XXX SHEET 52 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,

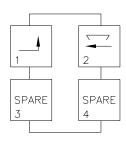


EXISTING SIGNAL HEADS P1, P2

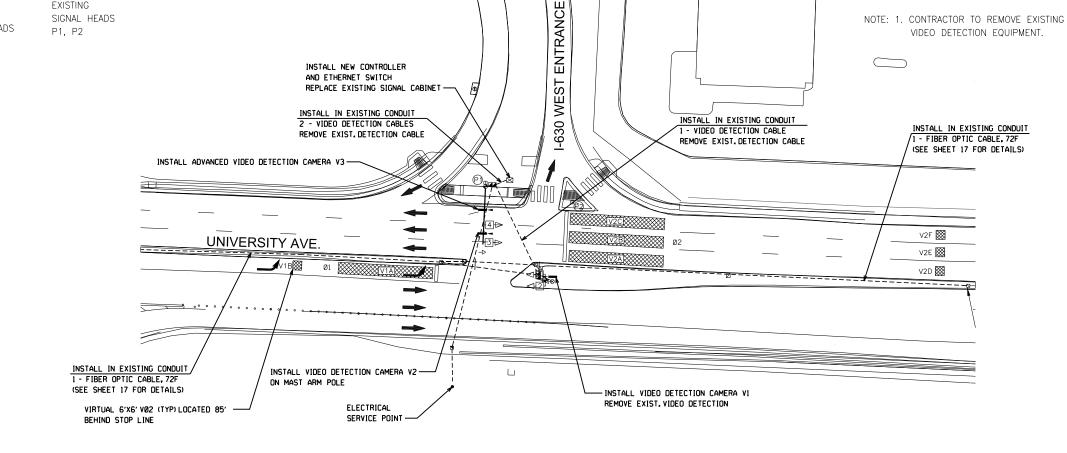


NOTE: 1. CONTRACTOR TO REMOVE EXISTING STOP LINE VIDEO DETECTION EQUIPMENT.

PHASING DIAGRAM







INSTALL NEW CONTROLLER AND ETHERNET SWITCH

	TRAFFIC SIGNAL CONTROLLER
□	JUNCTION BOX
	CONDUIT
— ғ —	AERIAL FIBER OPTIC CABLE
e	MAST ARM AND POLE
4 4-	PROPOSED FYA SIGNAL HEAD
<3-	EXISTING SIGNAL HEAD
<u> </u>	COBRA HEAD STREET LIGHT
-	TRAFFIC SIGN
	VIDEO DETECTOR

VIDEO DETECTION ZONE

TRAFFIC SIGNAL LEGEND

POSTED SPEED LIMIT: 40 MPH NORTH AND SOUTH APPROACH 35 MPH EAST AND WEST APPROACH 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		
40 MPH	230'	60'		
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	DATE		JOB NO.
			1" = 30'	12/1	4/17	
			DRAWN BY	CHE	CKED BY	
			TJC	1	иKС	
			APPROVED BY		SHEET	53
			l xxx			80

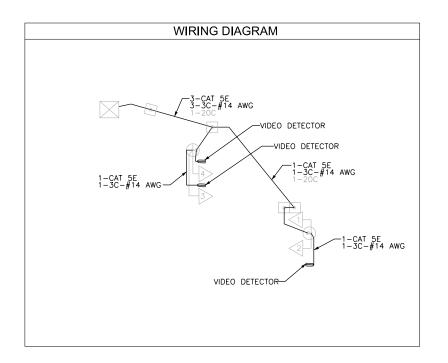
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				67	ARK.		54	80	
				JOB	NO.	061468			
		•		UNIVERSITY AVE. AT 1-630 WB					



	DETECTOR SYSTEM DESCRIPTION											
				INPUTS BY			PROG	RAM ASS	IGNMENTS			
PULASKI	COUNTY - UNIVERSITY AV	E. /I-630 W	/B RAMP	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		2	V1	1			CAMERA V1	23"	
V1B	NB LEFT TURN ADV.	COMB.	8		1	V9	1	1		CAMERA V1	23"	
V2A	SB THRU LANES	сомв.	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 input							7-16					

D = System or Auxiliary input

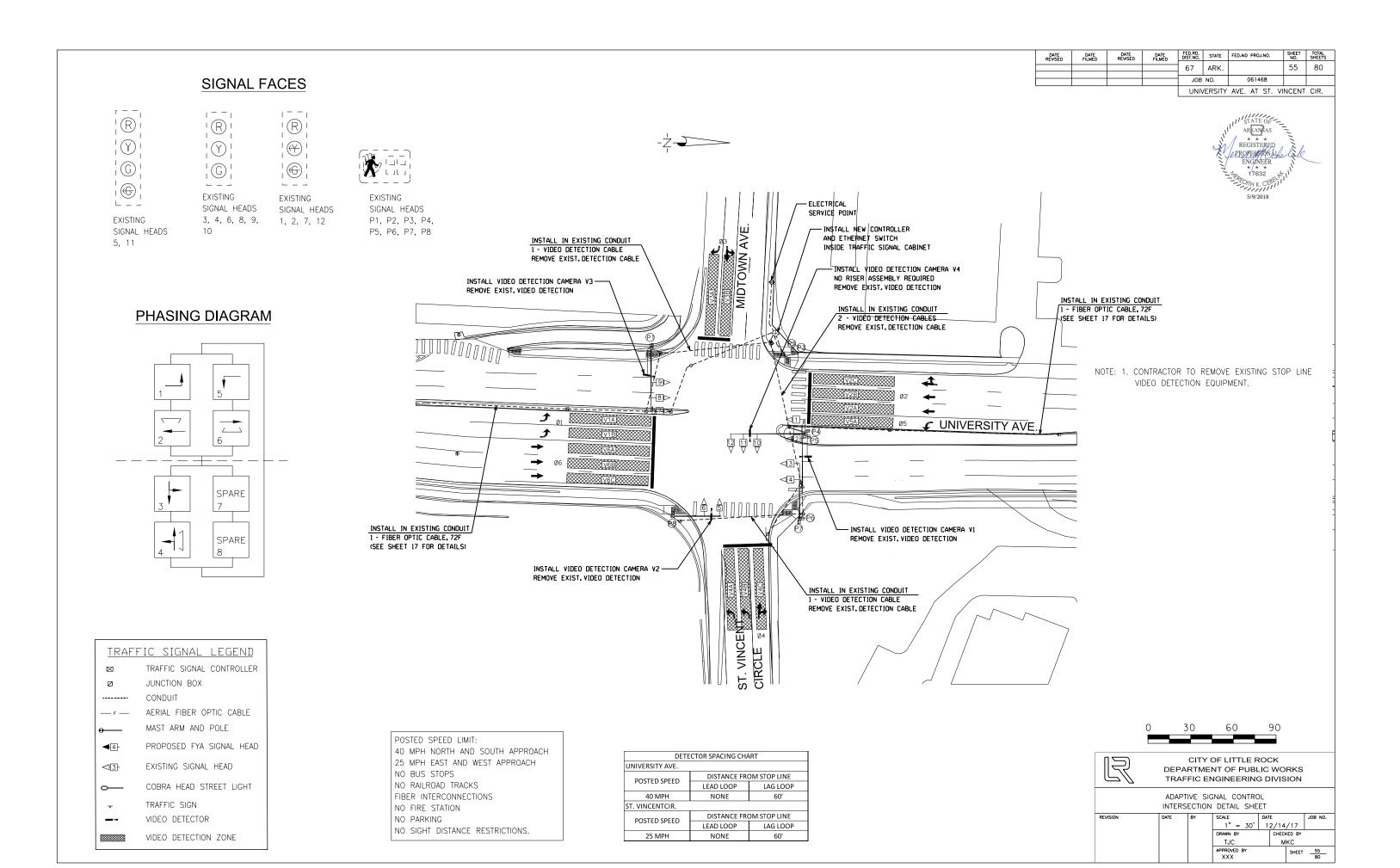
P = Pedestrian input



	UNIVERSITY AVE AND 1-630 WB											
SIGNAL	SIGNAL INTERVAL CHART FOR NORMAL OPERATION											
FACE	1&5	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

LR	DEPA	RTME	OF LITTLE F NT OF PUBL NGINEERING	.IC	wo						
			NAL CONTRO	_							
REVISION	DATE	BY	SCALE	DAT	Ε		JOB NO.				
			N.T.S.	1.	2/14	/17					
			DRAWN BY		CHECH	KED BY					
TJC MKC											
	APPROVED BY SHEET 54 80										



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		

UNIVERSITY AVE. AT ST. VINCENT CIR.

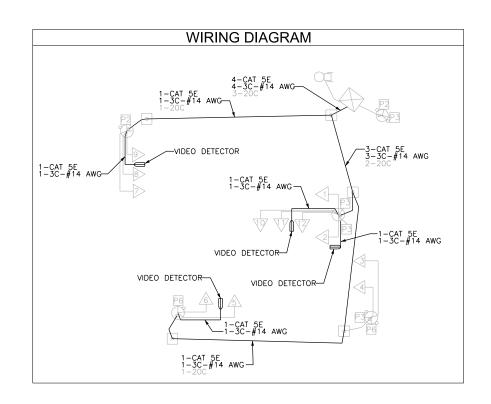


			DET	FCTOR	SVSTE	M DESC	RIPTION	J			
			DE	INPUTS BY PROGRAM ASSIG			IGNMENTS				
PULAS	KI COUNTY - UNIVERSITY A	VE. /ST. VI	NCENT	S	UPPLIE	:R	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	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	VE AND ST	VINCENT	CIR						
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
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			
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	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			
*				ROW DEPE				** THE NEXT F		GREEN OR	YELLOW B	ALL DEPENI	DING ON N	EXT PHASE			

CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION											
	_		NAL CONTRO	_							
REVISION	DATE	BY	SCALE	DAT	-	,. <u> </u>	JOB N				
			N.T.S.	1	2/14	/17					
	DRAWN BY CHECKED BY										
			TJC		М	KC					
			APPROVED BY			SHEET	56				

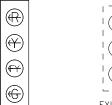
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		57	80
				JOB NO.		061468		

UNIVERSITY AVE. AT UNIVERSITY MALL

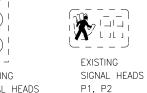


NOTE: 1. CONTRACTOR TO REMOVE EXISTING _____ 5/9/2018 VIDEO DETECTION EQUIPMENT.

SIGNAL FACES

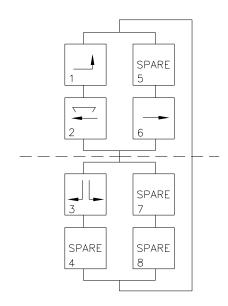


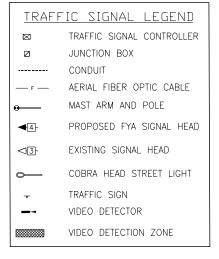


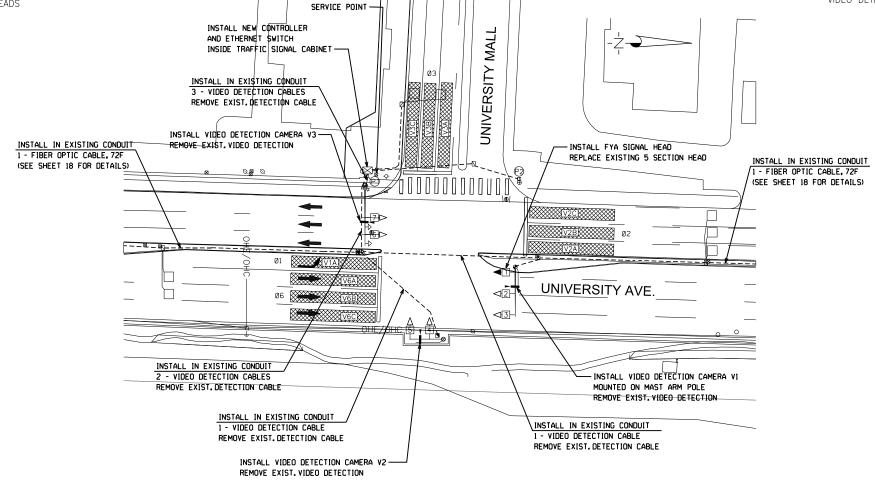


EXISTING
SIGNAL HEADS
2, 3, 4, 5, 6,
7

PHASING DIAGRAM







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	PARKII	٧G	
NO	SIGHT	DISTANCE	RESTRICTIONS.

DETE	CTOR 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
FOSTED 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	Έ		JOB N	10.
			1" =	= 30'	1	2/14	/17		
			DRAWN BY	Y		CHECH	KED BY		
			TJC			М	KC		
			APPROVED	BY			SHEET	57	
			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.		58	80
				JOB	NO.	061468		

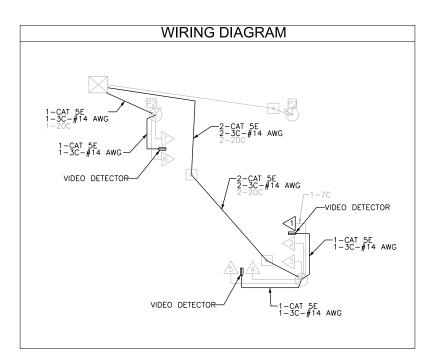
UNIVERSITY AVE. AT UNIVERSITY MALL



			DET	ECTOF	SYSTE	M DES	CRIPTION	1			
				l IN	IPUTS I	BY	PROG	SRAM ASS	IGNMENTS		
PULAS	KI COUNTY - UNIVERSITY A	AVE. /UNIV	. MALL	s	UPPLIE	R	LO	CAL	MASTER		TUBE
				САВ	AMP	CON.		SYSTEM	SYSTEM	COMMENTS	LENGTHS
DET. ID#	LOCATION DIRECTION	TYPE	DET.		CHN#		PHS	DET.	DETECTION		LLINGIIIS
				I KIVI#	Спіч#	IINP#		DET.	NUMBERS		
V1A	NB LEFT TURN	LOCAL	1			٧1	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			V7	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.



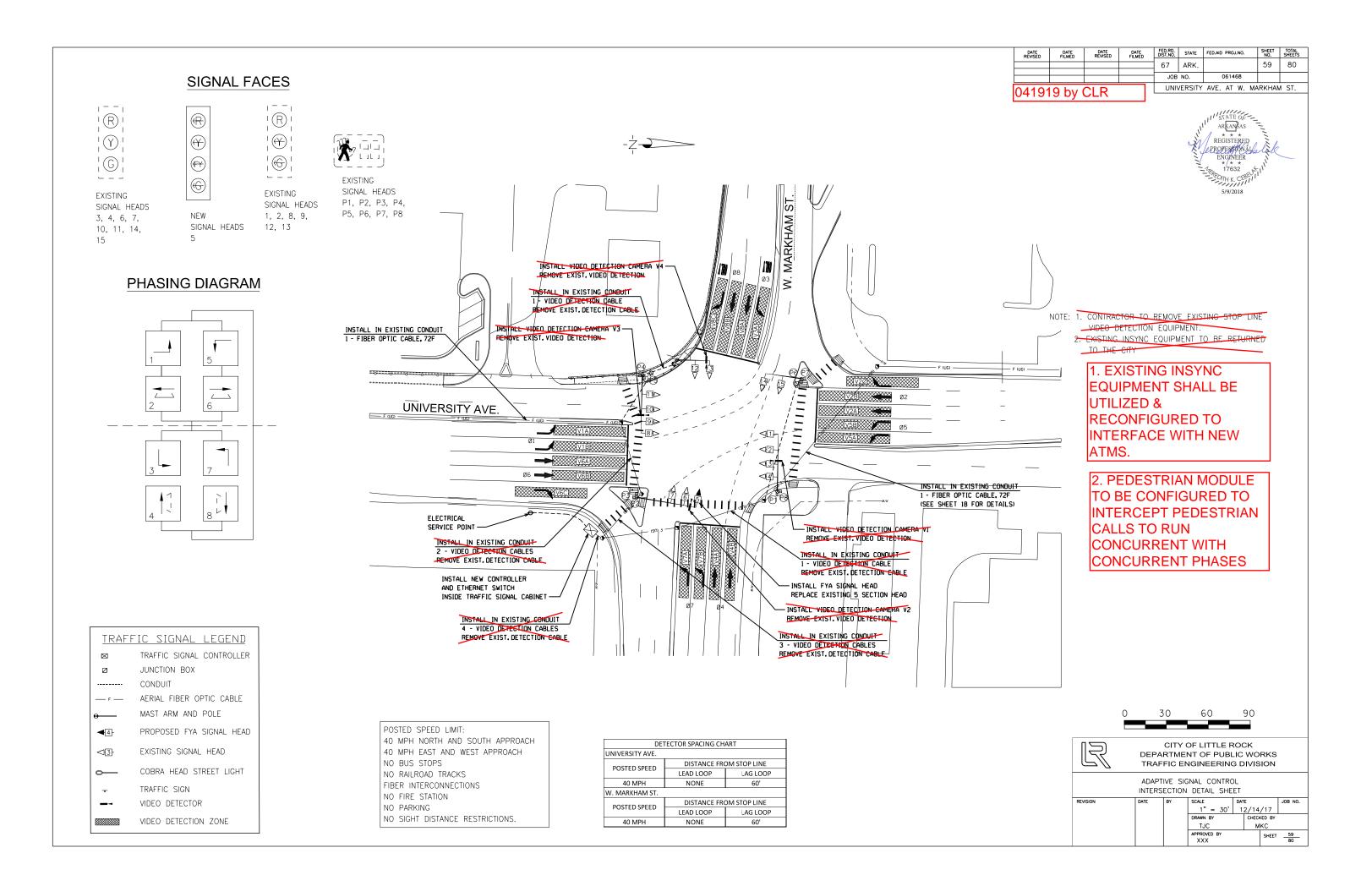
UNIVERSITY AVE AND UNIVERSITY MALL																	
SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION	I						FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1			G <-	***			FY<-	***			R	R					R
2			G	**			G	**			R	R					R
3			G	**			G	**			R	R					R
4			R	R			R	R			G	Υ					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 AI	RROW DEPI	ENDING ON	NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW B	ALL DEPENI	DING ON N	EXT PHASE	•		•
***	DENOTES	FLASHING '	YELLOW AR	ROW OR Y	ELLOW ARI	ROW DEPE	NDING ON	THE NEXT F	PHASE								



CITY OF LITTLE ROCK DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

ADAPTIVE SIGNAL CONTROL INTERSECTION DETAIL SHEET

REVISION	DATE	BY	SCALE	DATE	DATE				
			N.T.S.	12/	14/17				
			DRAWN BY	CI	HECKED BY				
			TJC		MKC				
			APPROVED BY		SHEET	58			
			l 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.		60	80
				JOB	NO.	061468		

UNIVERSITY AVE. AT W. MARKHAM ST.

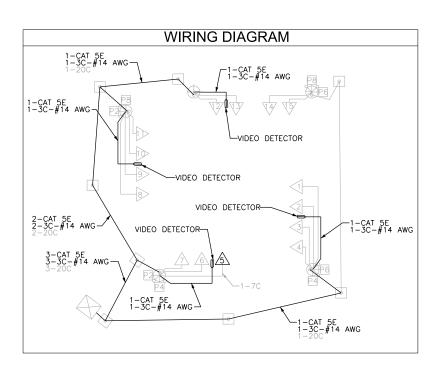


			DE.	TECTOR	SVSTE	M DESC	RIPTION	d.			
				II	NPUTS I	ЗҮ	PROC	SRAM ASS	IGNMENTS		
PULAS DET. ID#	SKI COUNTY - UNIVERSITY LOCATION DIRECTION	AVE. /MAR TYPE	DET.	САВ	AMP CHN#	CON.	PHS	SYSTEM DET.	MASTER SYSTEM DETECTION NUMBERS	COMMENTS	TUBE LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA V1	23"
V1B	NB 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"

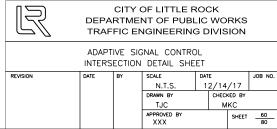
V = Vehicle input

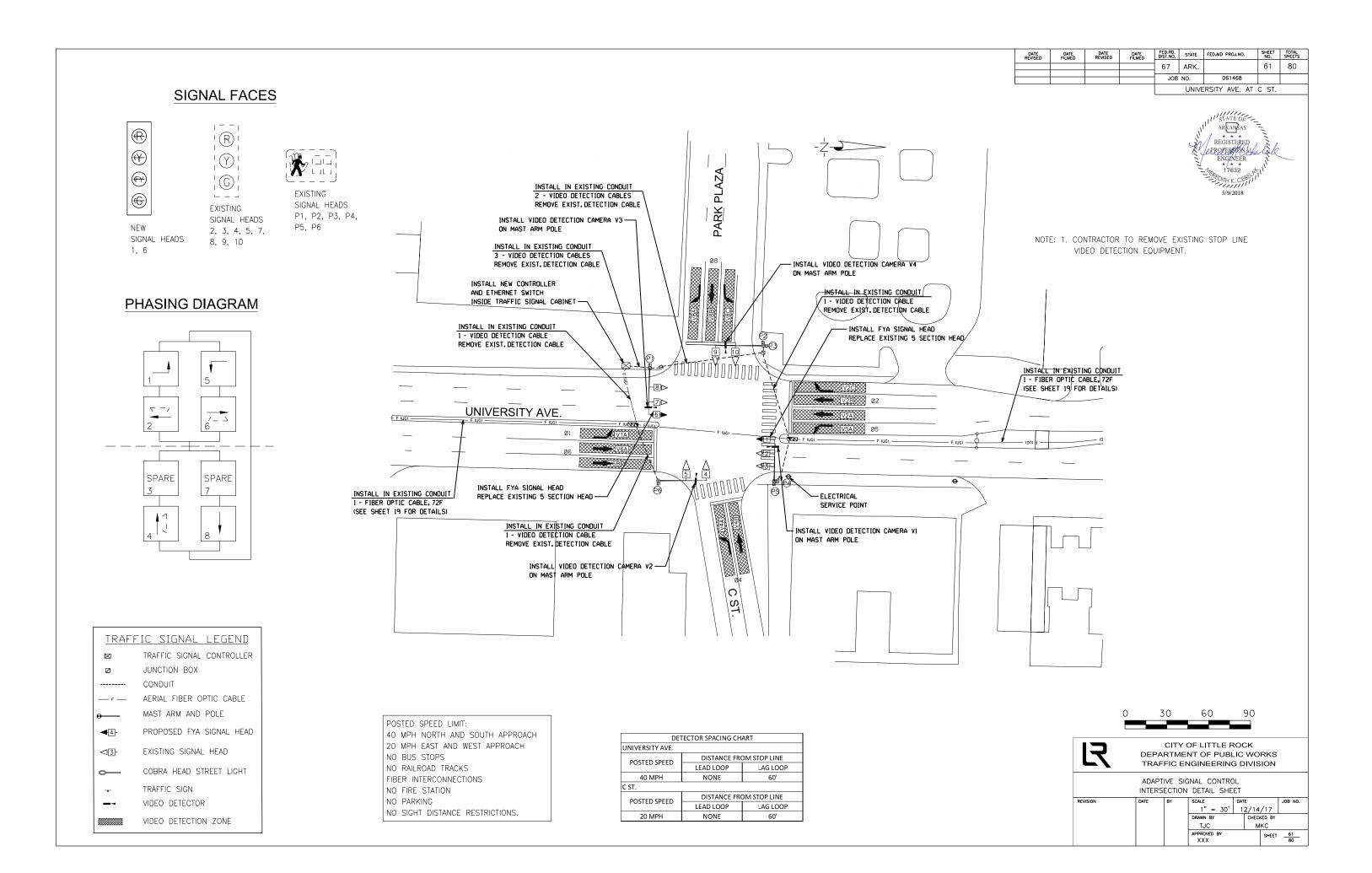
D = System or Auxiliary input

P = Pedestrian input



							U	NIVERSITY	AVE AND N	1ARKHAM S	T						
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 <-	*	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 (YELLOW AF /ELLOW AR					** THE NEXT E		GREEN OR	YELLOW B	L ALL DEPENI	I 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		
					UNIVE	RSITY AVE. AT	C ST.	

ARKANAAS

REGISTERED

PROFESTATE

ENGINEER

17632

17632

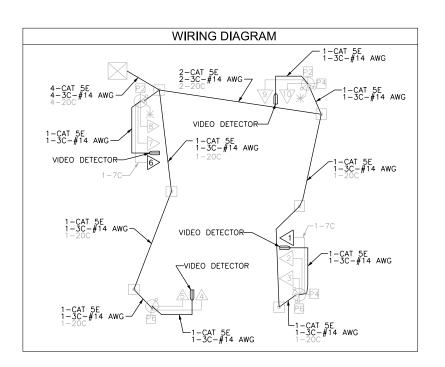
17632

			DE ⁻	TECTOR	SYSTE	M DESC	CRIPTION	1			
				IN	NPUTS	ВҮ	PROG	GRAM ASS	IGNMENTS		
PU	LASKI COUNTY - UNIVERSI	TY AVE. /C	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 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"

V = Vehicle input

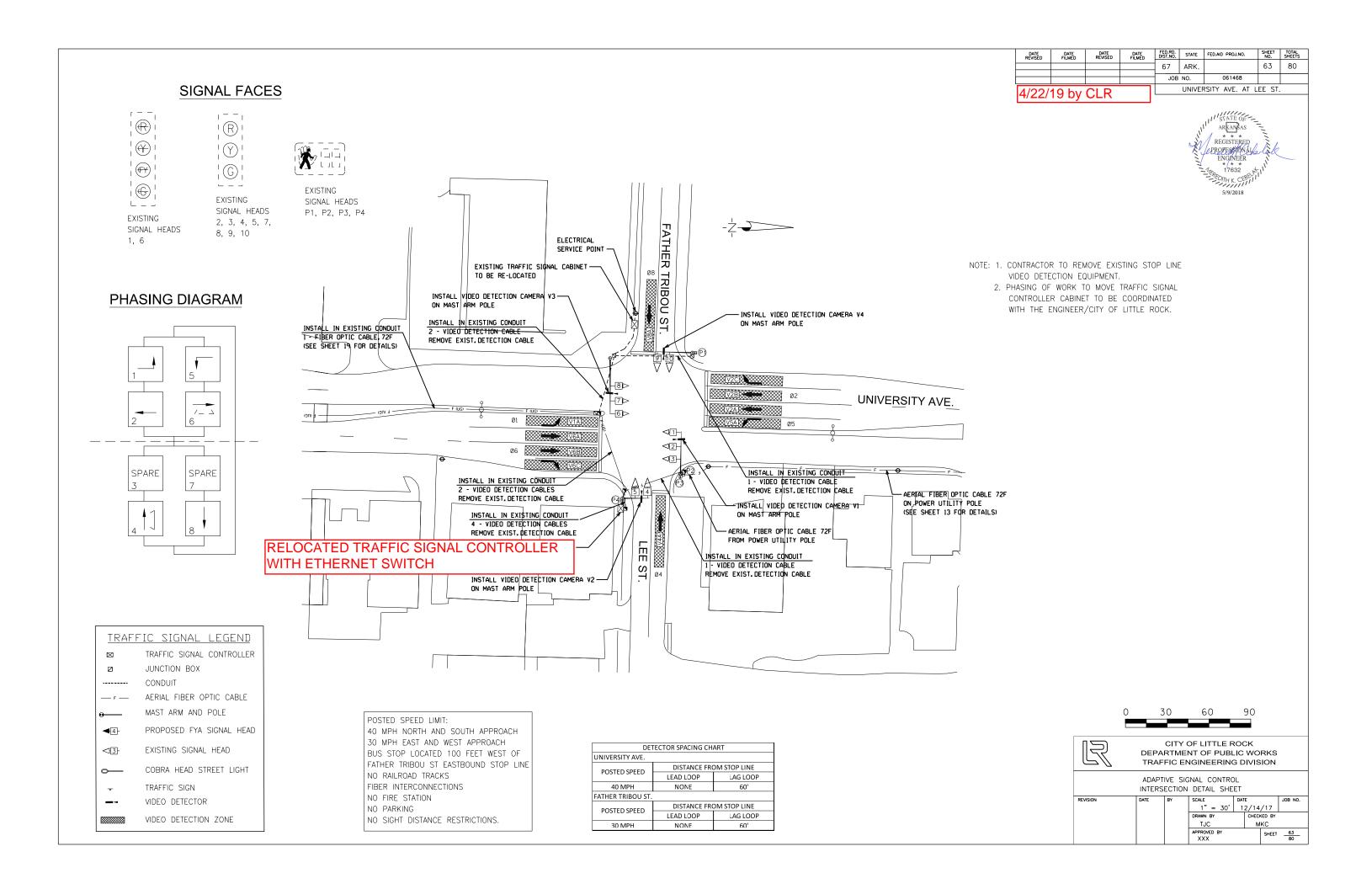
D = System or Auxiliary input

P = Pedestrian input



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 <-	*/**	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						
	INTERS	ECTION	NAL CONTRO	ΕT							
REVISION	DATE	BY	SCALE	DAT	-		JOB NO.				
			N.T.S.	1:	2/14,	/17	I				
			DRAWN BY		CHECK	ED BY					
	TJC MKC										
	APPROVED BY SHEET 62 XXX										



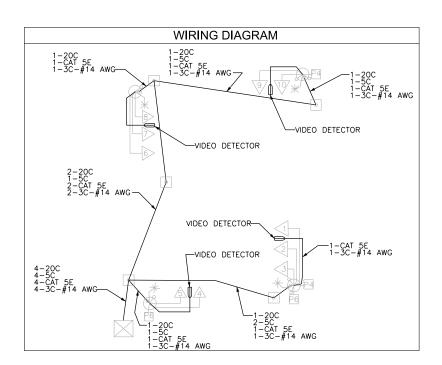
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		64	80
				JOB	NO.	061468		
					UNIVER	RSITY AVE. AT L	EE ST.	



			DE	ГЕСТОР	SYSTE	M DESC	CRIPTION	١			
				11	NPUTS	вү	PROG	GRAM ASS	IGNMENTS		
PULASKI	COUNTY - UNIVERSITY AV	E. /FATHER	RTRIBOU	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 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			٧7	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

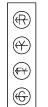


SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION							FLASH
FACE	1&5	CLR	1&6	CLR	2&5	CLR	2&6	CLR	3&7	CLR	3&8	CLR	4&7	CLR	4 & 8	CLR	SEQ
1	G <-	*	G <-	*/**	FY<-	***	FY<-	***							R	R	R
2	R	R	G	**	R	R	G	**							R	R	R
3	R	R	G	**	R	R	G	**							R	R	R
4	R	R	R	R	R	R	R	R							G	**	R
5	R	R	R	R	R	R	R	R							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	
Р3	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
P4	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
*	DENOTES	GREEN OR	YELLOW A	RROW DEPE	NDING ON	NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW B	ALL DEPEND	DING ON N	EXT PHASE	•		



| DATE | DATE | PREVISED | DATE | PREVISED | DATE | PREVISED | PROJ.NO. | SHEET | STOTAL NO. | SHEET | STOTAL NO.

SIGNAL FACES



NEW

SIGNAL HEADS



EXISTING

8, 9, 10

SIGNAL HEADS

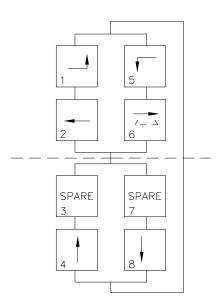
2, 3, 4, 5, 7,

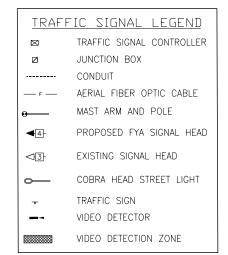


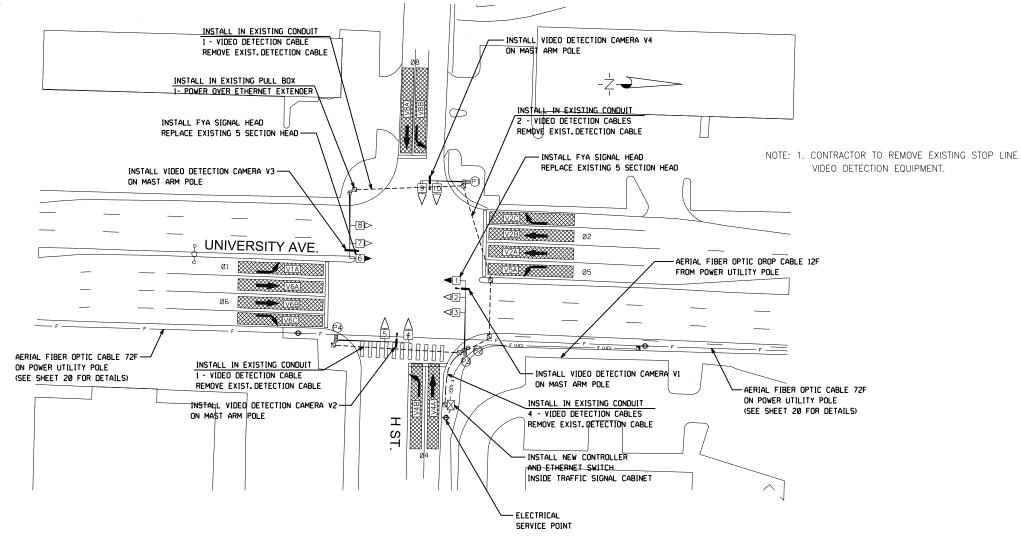
EXISTING SIGNAL HEADS P1, P2, P3, P4

REGISTERED ENGINEER 17632

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	DA	TE		JOB NO.
			1" = 3	30' 1	2/14,	/17	
			DRAWN BY		CHECK	ED BY	
			TJC		M	KC	
			APPROVED BY			SHEET	65
			l xxx		- 1		80

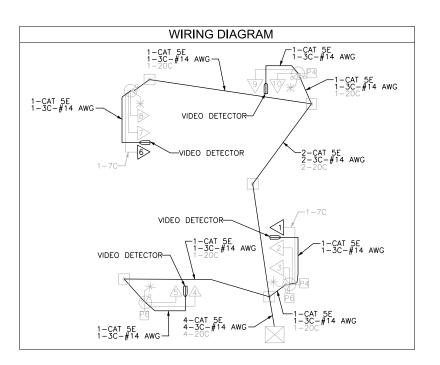
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				67	ARK.		66	80
				JOB	NO.	061468		
					UNIVE	RSITY AVE. AT	H ST.	



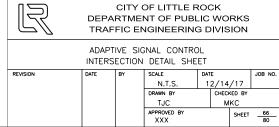
			DE ⁻	TECTOR	SYSTE	M DESC	CRIPTION	1			
					NPUTS I				IGNMENTS		
PU	LASKI COUNTY - UNIVERSI	TY AVE. /H	ST.	S	UPPLIE	R	LO	CAL	MASTER		TUBE
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	1			V1	1			CAMERA 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 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"

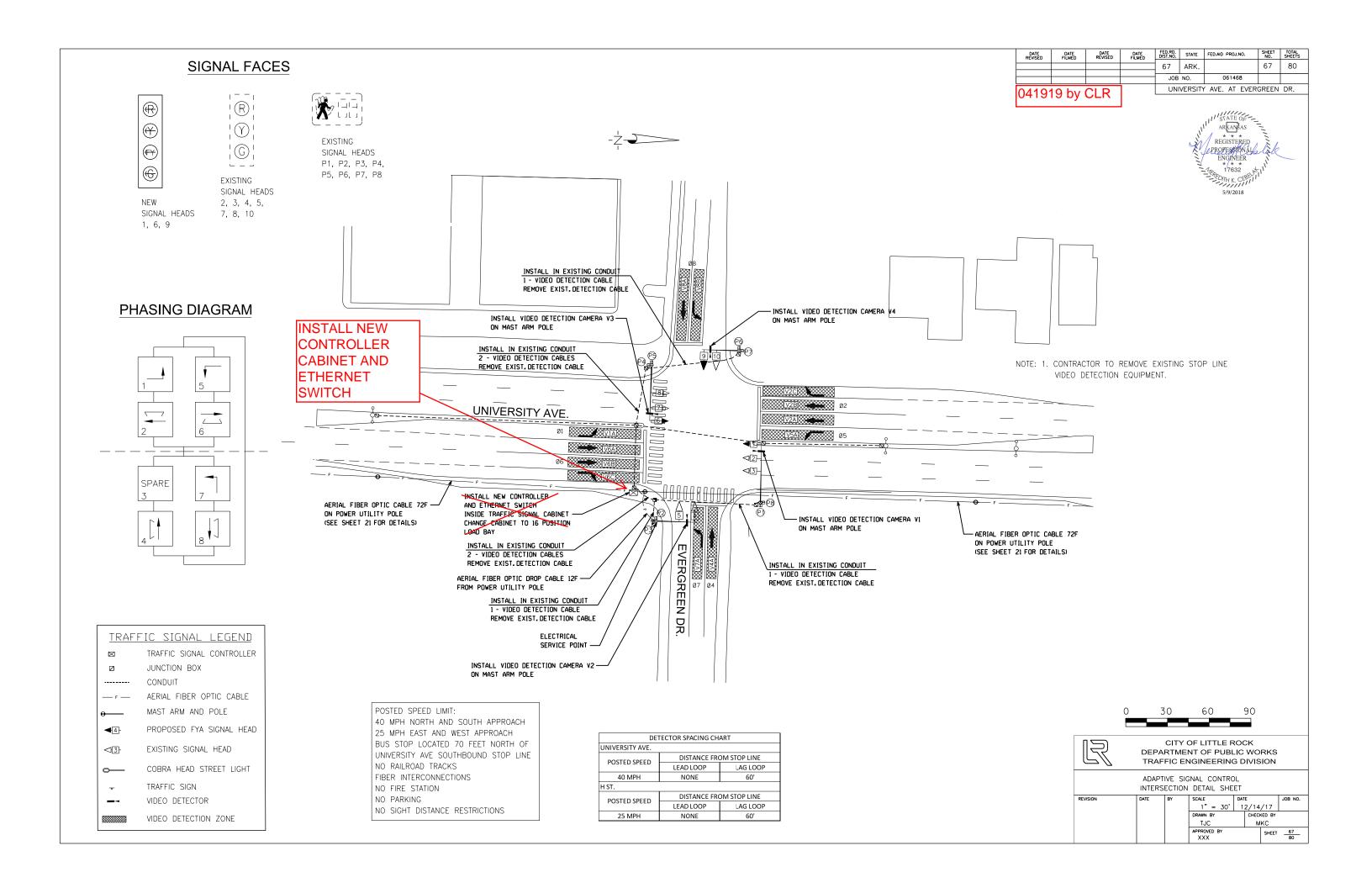
D = System or Auxiliary input

P = Pedestrian input



									SITY AVE AI								
SIGNAL							INTERVAL	CHART FOR	NORMAL (OPERATION	1						FLAS
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	SEC
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	
Р3	DW	DW	W	FDW	DW	DW	w	FDW							DW	DW	
P4	DW	DW	W	FDW	DW	DW	W	FDW							DW	DW	
*	DENOTES	GREEN OR	YELLOW AF	RROW DEPI	NDING ON	NEXT PHA	SE	**	DENOTES	GREEN OR	YELLOW B.	ALL DEPENI	DING ON N	EXT PHASE			
***				ROW OR Y				THE NEXT F									





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.

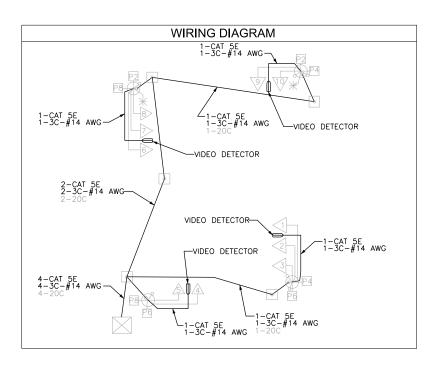


			DE	TECTOR	SVSTE	MDESC	CRIPTION				
			DL	NPUTS BY			PROGRAM ASSIGNMENTS				
PULASKI COUNTY - UNIVERSITY AVE. /EVERGREEN				SUPPLIER		LOCAL		MASTER		TUDE	
DET. ID#	LOCATION DIRECTION	TYPE	DET.	CAB TRM#	AMP CHN#	CON. INP#	PHS	SYSTEM DET.	SYSTEM DETECTION NUMBERS	COMMENTS	LENGTHS
V1A	NB LEFT TURN	LOCAL	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 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

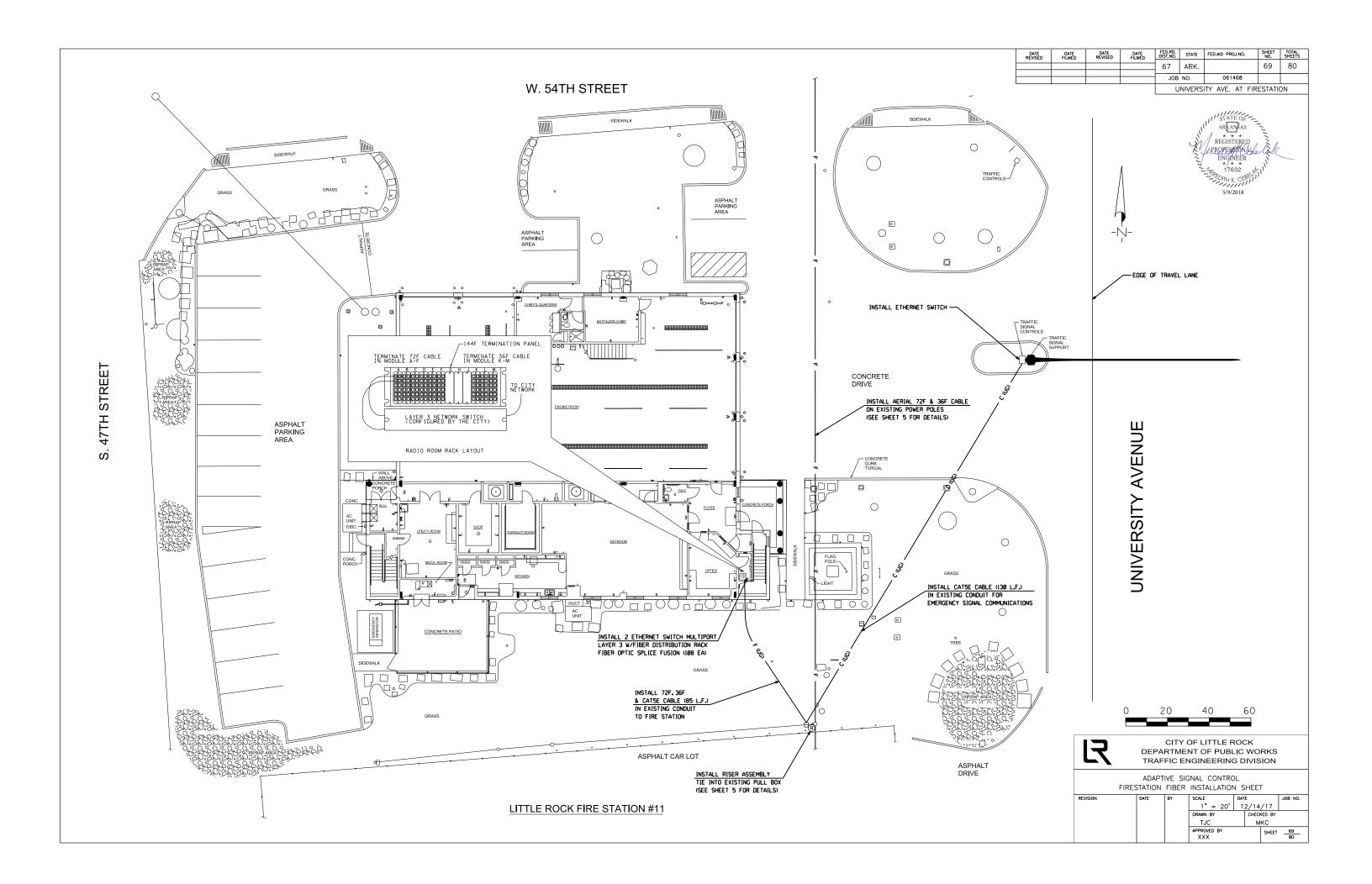
D = System or Auxiliary input

P = Pedestrian input



SIGNAL							INTERVAL	CHART FOR	NORMAL C	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 <-	*	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	
*	Į.	 GREEN OR ' FLASHING Y							DENOTES	GREEN OR	YELLOW BA	L ALL DEPENI	DING ON N	EXT PHASE			

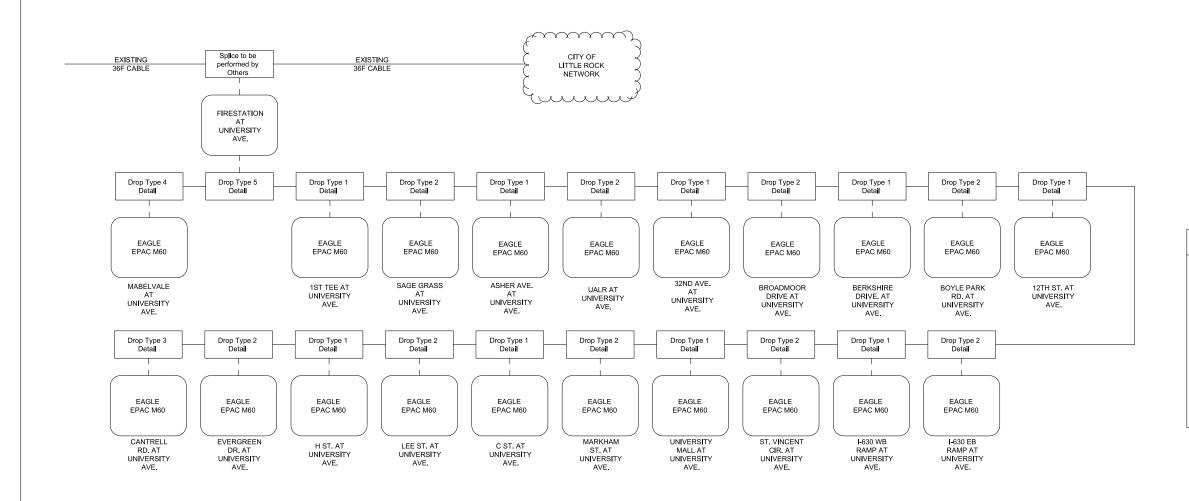




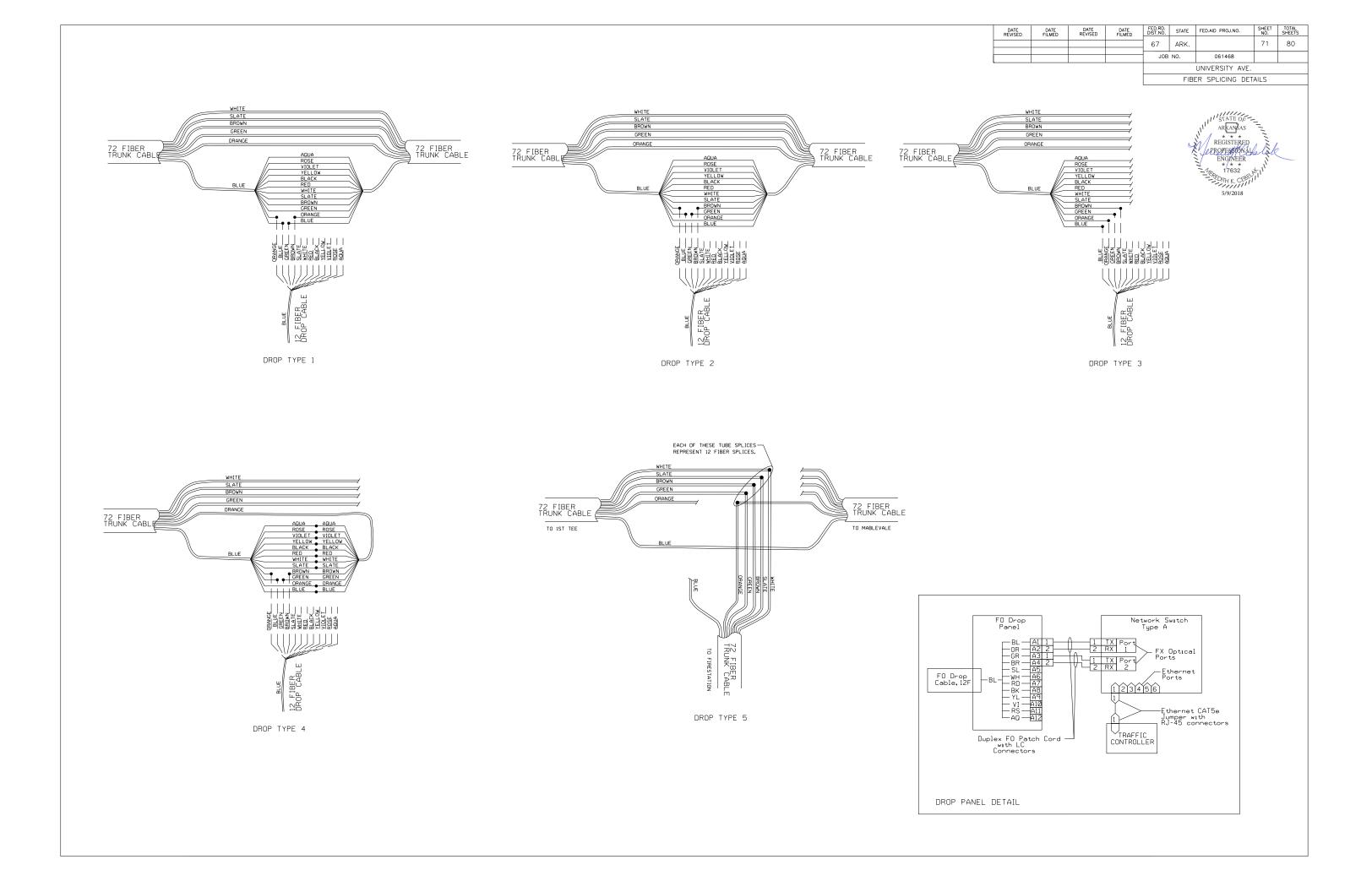
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				67	ARK.		70	80	
				JOB	NO.	061468			
				UNIVERSITY AVE.					
				FIBER SPLICING DETAILS					

REGISTERED
PROFESIONAL LAR
ENGINEER
17632

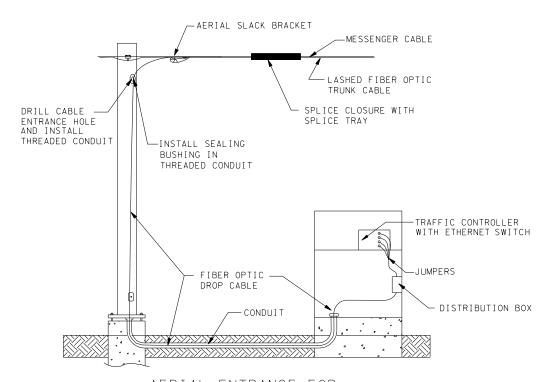
STORMS



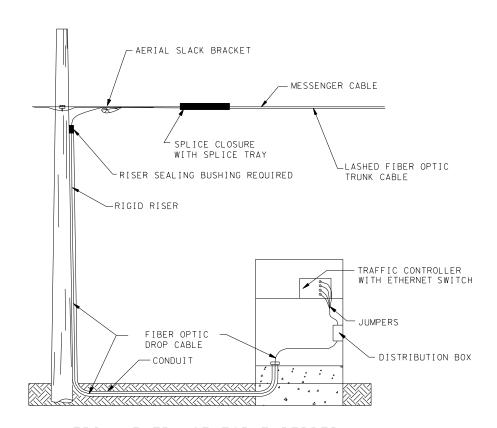
Legend						
Trunk Cable						
Drop Cable						
Splice Boot						
Control Box						



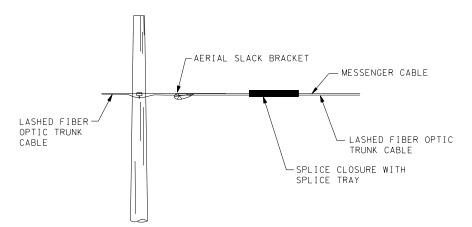
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					67	ARK.		72	80			
ł					JOB	NO.	061468					
•					UNIVERSITY AVE.							
					FIRER INSTALLATION DETAILS 1							



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)



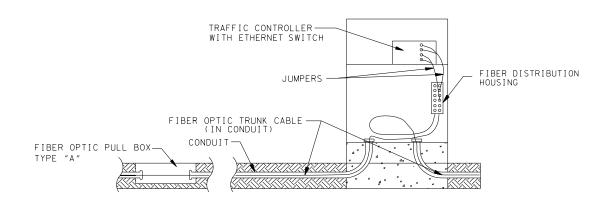
TYPICAL OVERHEAD SPLICE

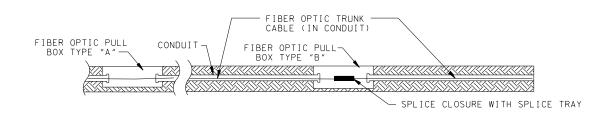


- (A) CONDUIT FOR FIBER OPTIC CABLE REQUIRED TO UTILIZE LARGE RADIUS BENDS (MINIMUM RADIUS 6 INCHES) NO ELBOW JOINTS ALLOWED.
- B ALL SPLICE CLOSURES TO CONTAIN SUFFICIENT SLACK FIBER TO PERFORM SPLICE ON GROUND IN MAINTENANCE VEHICLE (MINIMUM 25 FEET OF SLACK FOR EACH DROP CABLE).
- © ALL SPLICES TO 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.					
				FIRER INSTALLATION DETAILS 2					





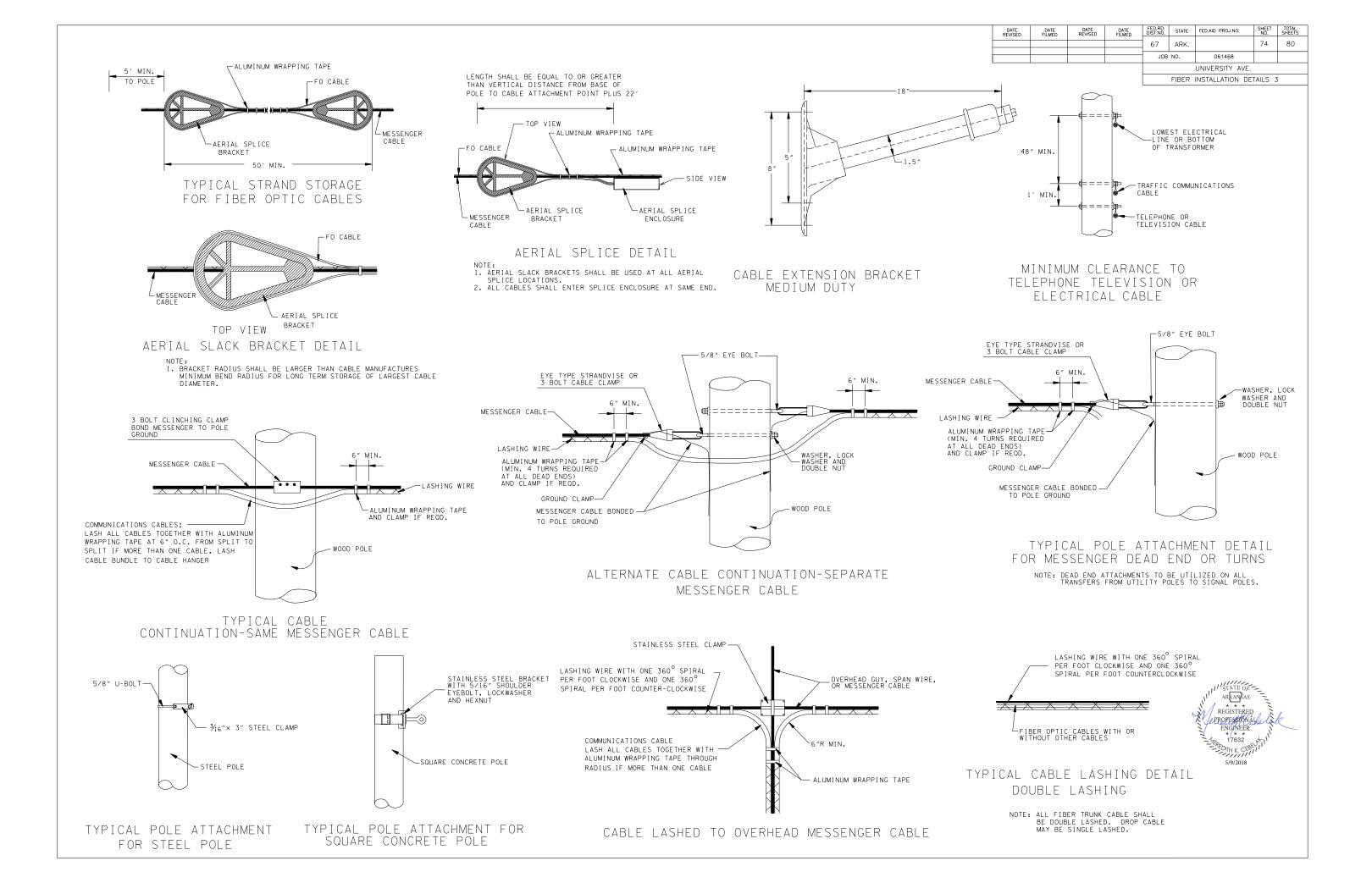


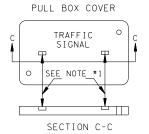
TYPICAL UNDERGROUND SPLICE

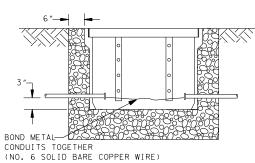
UNDERGROUND ENTRANCE
INTO BASE MOUNTED CABINET
(INTERNAL SPLICE-MAX. 12 FIBER SPLICES)

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.





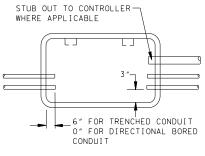


SIDE VIEW

FIBER OPTIC PULLBOX MINIMUM DIMENSIONS

			10.10
TYPE	LENGTH	WIDTH	DEPTH
А	36″	26″	32 "
В	49″	32″	36″

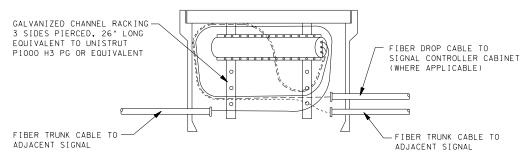
TYPE "A" FIBER OPTIC PULLBOXES ARE TO BE USED WHEN NO SPLICING IS REQUIRED IN THE PULLBOX. TYPE "B" FIBER OPTIC PULLBOXES ARE TO BE USED WHEN SPLICING IS REQUIRED IN THE PULLBOX.



TOP VIEW

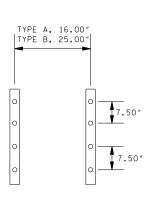
FIBER OPTIC PULLBOX DETAILS (TYPICAL)

- 1. NOTCHES SHALL BE PROVIDED FOR REMOVING THE COVER.
- 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.



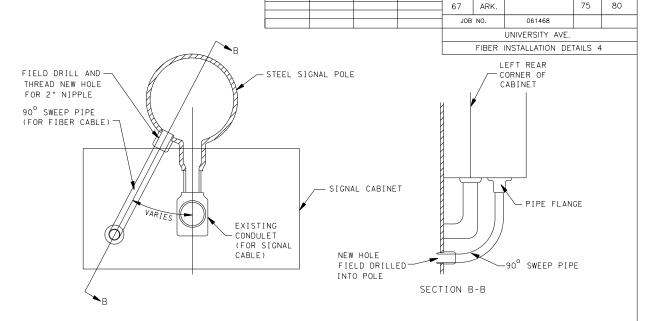
FIBER OPTIC SPLICE CLOSURE TYPE B PULL BOX

- 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 CONDUIT.



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.



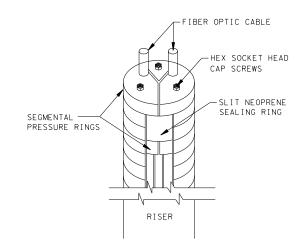
DATE FILMED

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

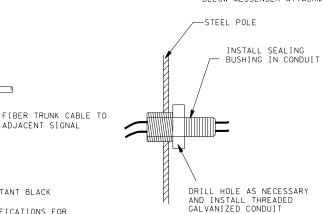
DATE FILMED

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.





ADJACENT SIGNAL



GALVANIZED CHANNEL RACKING

3 SIDES PIERCED, 26" LONG

P1000 H3 PG OR EQUIVALENT

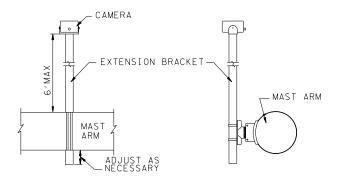
EQUIVALENT TO UNISTRUT

FIBER TRUNK CABLE TO

ADJACENT SIGNAL

- 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.

FIBER ENTRANCE TO EXISTING STEEL POLES

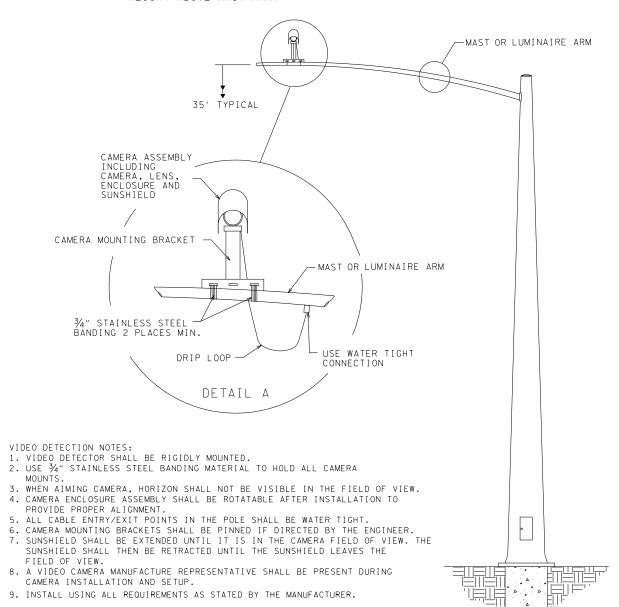


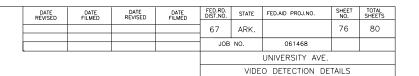
FRONT VIEW

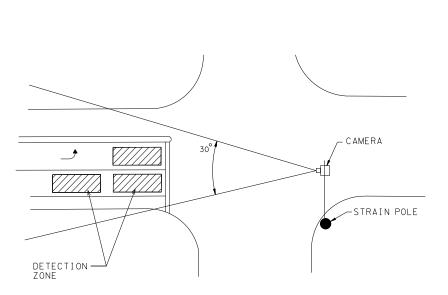
SIDE VIEW

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 12'-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.

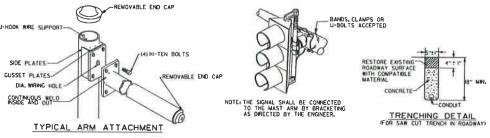
4. POLE/MAST ARM CAP - POLE AND MAST ARM CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST

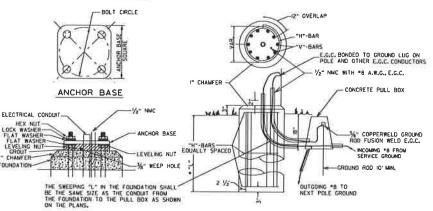
5. HAND HOLE - HAND HOLES SHALL BE 4 IN. X 6 IN. FOR STANDARD, AND 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY 12 INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACCUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL, POLES GREATER THAN 21FT. IN HEIGHT (FOR ROADWAY LUMINAIRE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



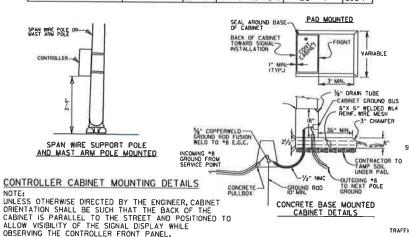


THE GROUND ROD SHALL BE FUSION WELDED TO A IC/"B A.W.G. SOLID COPPER GROUND WIRE, ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP, THE GROUND ROD IS TO BE LOCATED IN THE CONCRETE PULL BOX.

TYPICAL FOUNDATION DETAILS

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

	FOUNDATION	DEPTH		STEEL	
LENGTH	DIAMETER	"L"*	VERTICAL	HORIZONTAL	O.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" NESHALL 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.

IO. CONCRETE - ALL CONCRETE FOR CONTROLLER CABINET AND POLE FOUNDATIONS 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 LENGTH OF FOUNDATION ABOVE THE GROUND IS IS 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 DEXCEED 9" ON CENTERS. PAYMENT WILL BE IN ACCORDANCE WITH SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS.

SIGNAL OPERATION NOTES:

-2.3" O.D.

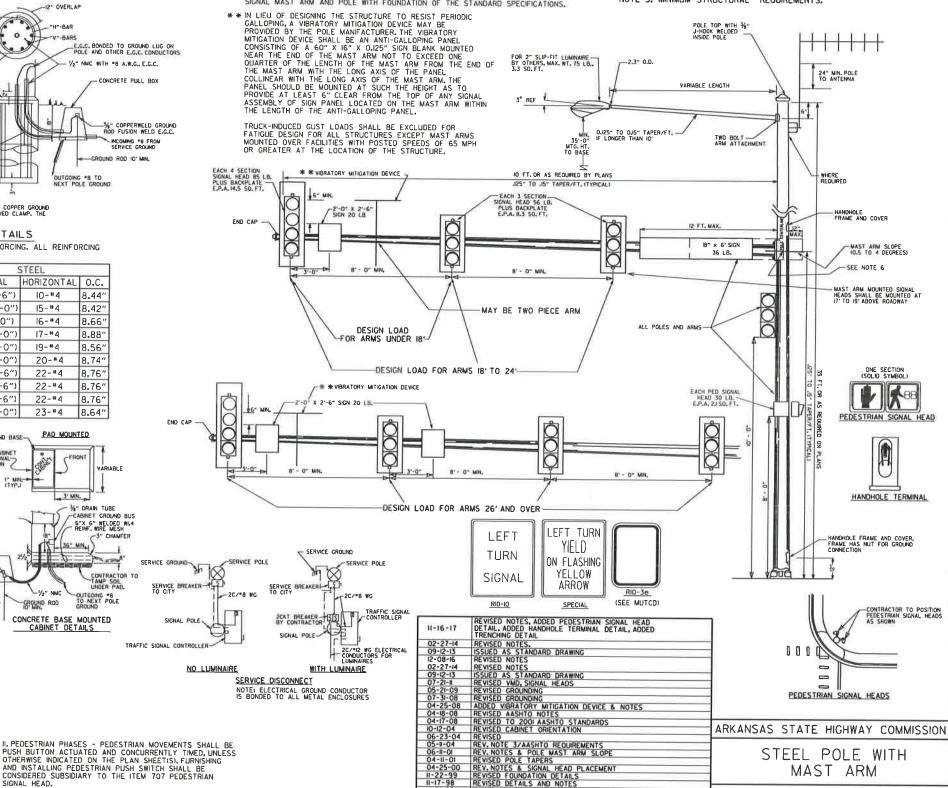
FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY OR EVERST ENDIAN

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

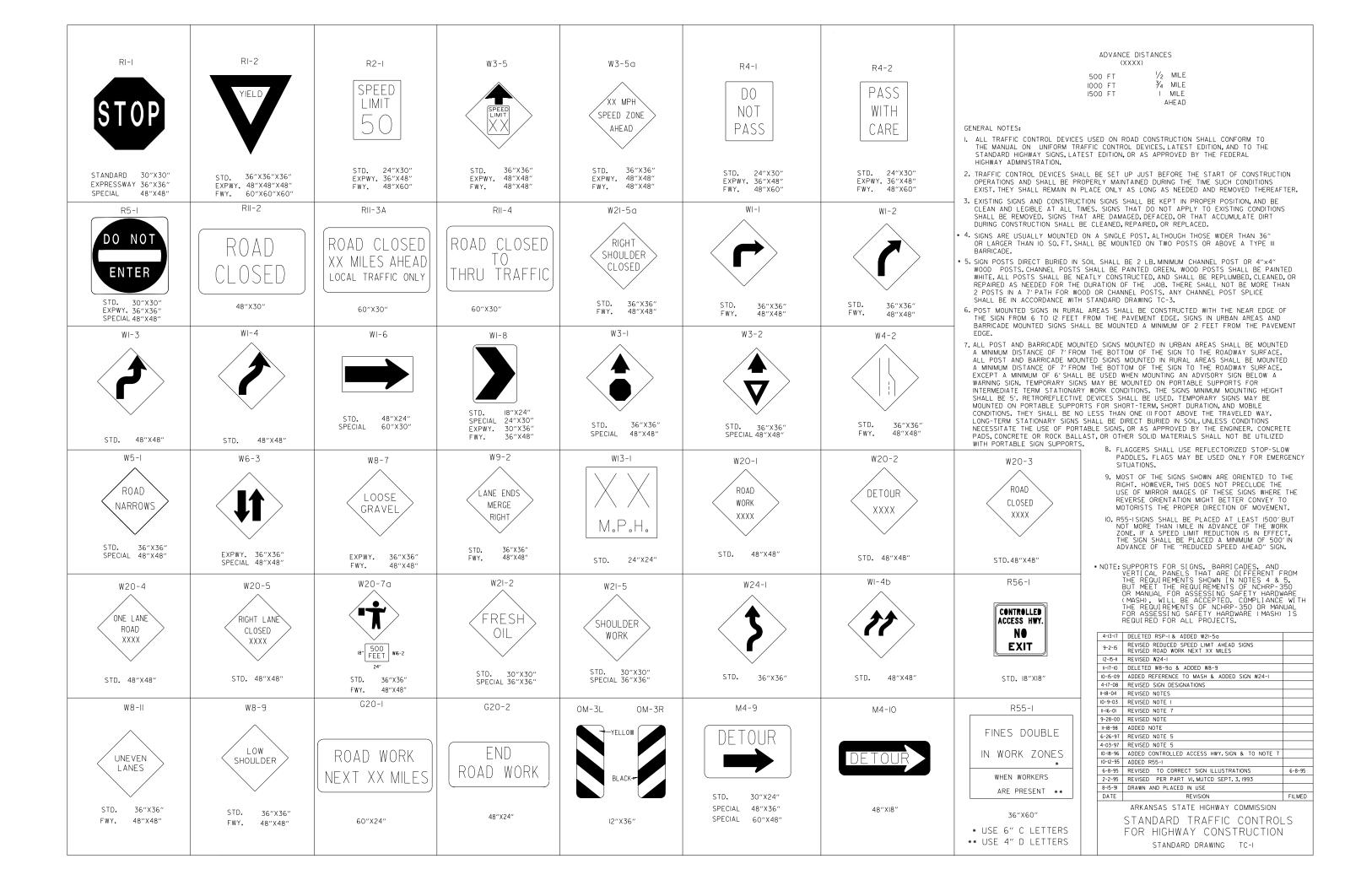
STANDARD DRAWING SD-II

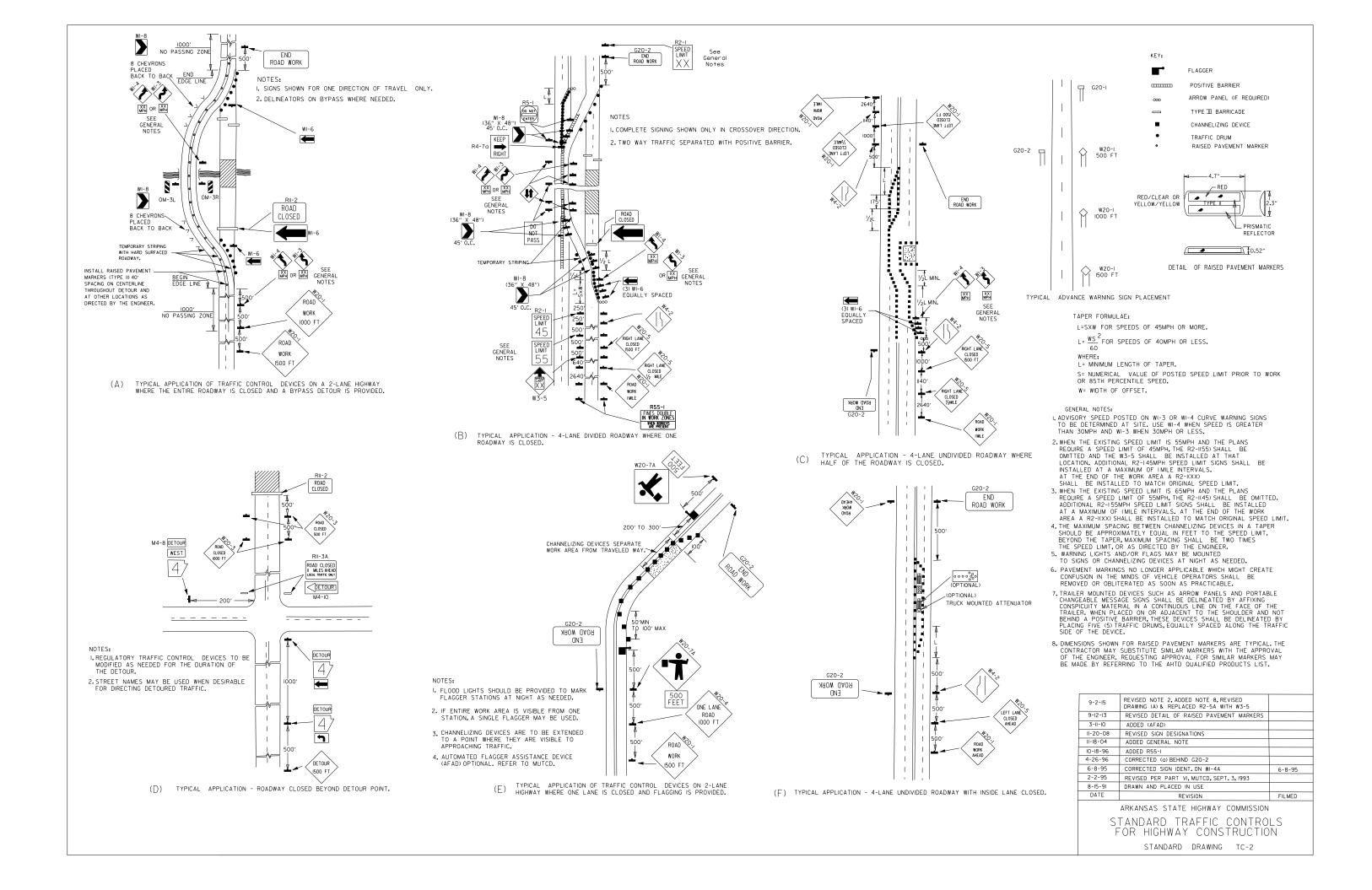
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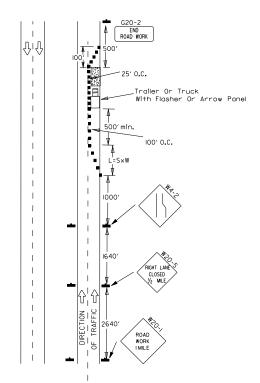
SPECIAL NOTE: 90 MPH WIND ZONE DESIGN. SEE NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.



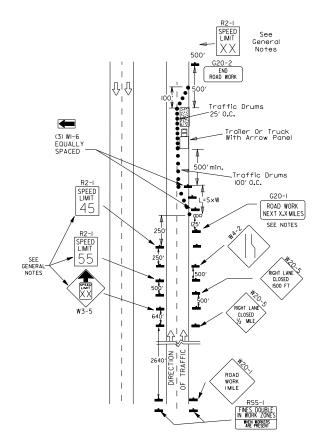
FOR 2" SLIP-FIT LUMINAIRE—BY OTHERS, MAX. WT. 75 LB...



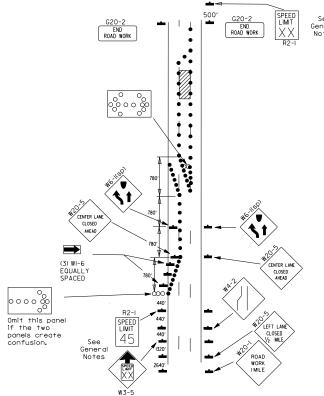




(A) Typical application – daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



(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.



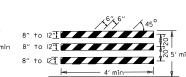


8" to 12"

8" to 12"

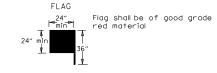
TYPE IBARRICADE

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

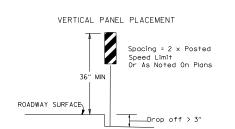
Lane lines

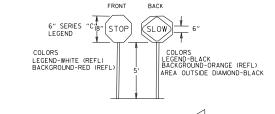
Greater than 3" Edge of shoulder

I" to 3"

I" to 3"

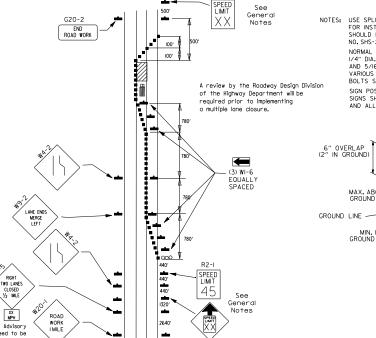
Greater than 3"



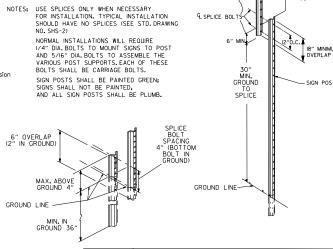


DETAIL OF SPLICES & SIGN BOLT

STOP SLOW PADDLE



 $(\ \ \ \ \)$ 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