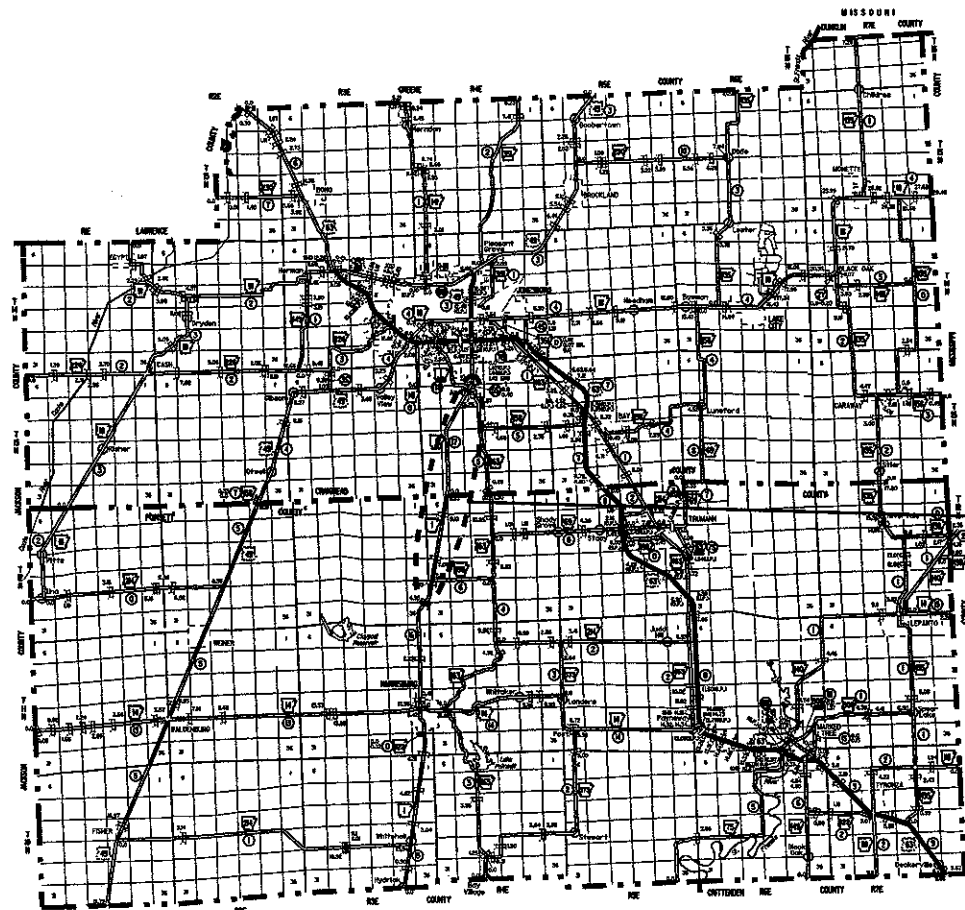


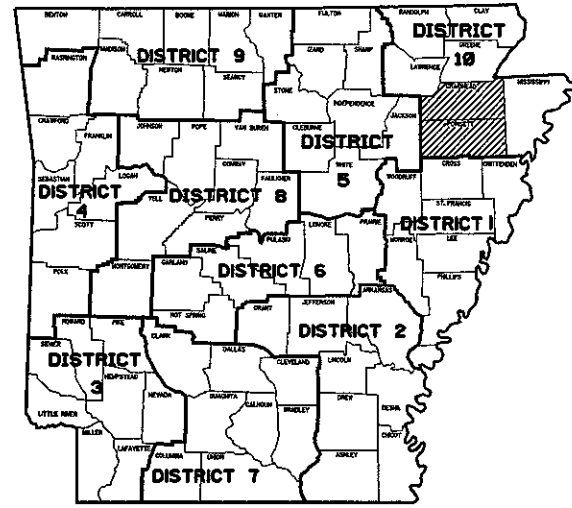
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
CONSTRUCTION PLANS

CROSS CO. LN. - JONESBORO  
(PASSING LANES) (S)  
POINSETT & CRAIGHEAD COUNTIES  
ROUTE 1 SECTIONS 16 & 17  
JOB 100526  
FEDERAL AID PROJECT MGL-5616(1)

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-21-01				6	ARK.			
				JOB NO.	100526		1	185
				(2) CROSS CO. LN. - JONESBORO (PASSING LANES) (S)				



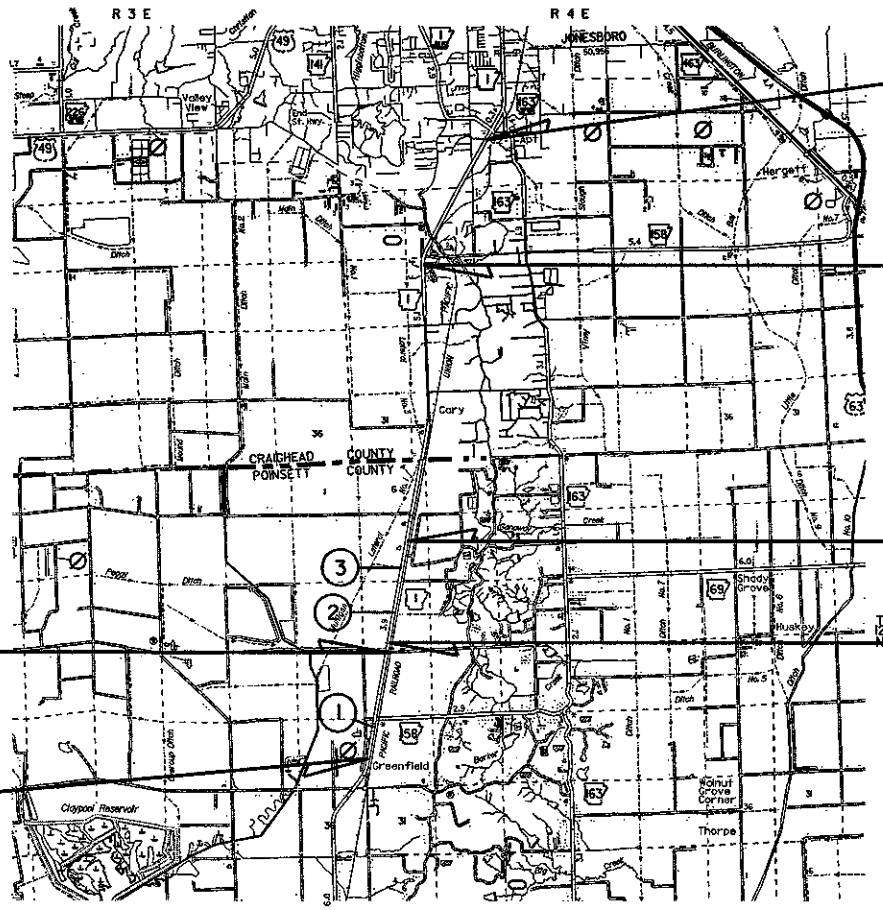
POINSETT & CRAIGHEAD COUNTIES



ARK. HIGHWAY DISTRICT 10

PROJECT LOCATION

NOT TO SCALE



STA. 712+00.00  
END SECTION 3  
JOB 100526

STA. 602+00.00  
BEGIN SECTION 3  
LOG MILE 2.86

STA. 560+00.00  
END SECTION 2

STA. 483+50.00  
BEGIN SECTION 2  
LOG MILE 7.11

STA. 480+00.00  
END SECTION 1

STA. 400+00.00  
BEGIN SECTION 1 JOB 100526  
LOG MILE 5.52

DESIGN TRAFFIC DATA

DESIGN YEAR-----2021  
2001 ADT-----8850  
2021 ADT-----14450  
2021 DHV-----1590  
DIRECTIONAL DISTRIBUTION-----0.60  
TRUCKS-----12%  
DESIGN SPEED-----60 MPH

STRUCTURES OVER 20' SPAN

- 1 STA. 426+72 IN PLACE  
TRI. 7' X 4' X 90' R.C. BOX CULVERT  
ON 15° RT. FWD. SKEW  
RETAIN & EXTEND 12' RT.  
SPAN = 24.16'
- 2 STA. 508+75 CONSTRUCT  
DBL. 7' X 4' X 102' R.C. BOX CULVERT  
ON 30° RT. FWD. SKEW AND  
STA. 508+88 IN PLACE  
8' X 4' X 90' R.C. BOX CULVERT  
ON 30° RT. FWD. SKEW  
RETAIN AND EXTEND 12' RT.  
SPAN = 28.49'
- 3 STA. 545+62 IN PLACE  
TRIPLE 6' X 3' X 85' R.C. BOX CULVERT  
RETAIN & EXTEND 11' RT.  
SPAN = 20.33'

MID POINT OF JOB 001853  
LAT.: N 35° 31' 52"  
LONG.: W 90° 43' 52"

	JOB 100526	
GROSS LENGTH OF PROJECT	26,650.00 FEET	5.047 MILES
NET LENGTH OF ROADWAY	26,577.02 FEET	5.033 MILES
NET LENGTH OF BRIDGES	72.98 FEET	0.014 MILES
NET LENGTH OF PROJECT	26,650.00 FEET	5.047 MILES



P.E. JOB 001853  
NON-PART.

05-02-2001

RECOMMENDED FOR APPROVAL

BRIDGE DESIGN ENGINEER

ROADWAY DESIGN ENGINEER

DISTRICT ENGINEER

APPROVED

CHIEF ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
RECOMMENDED FOR APPROVAL

APPROVED

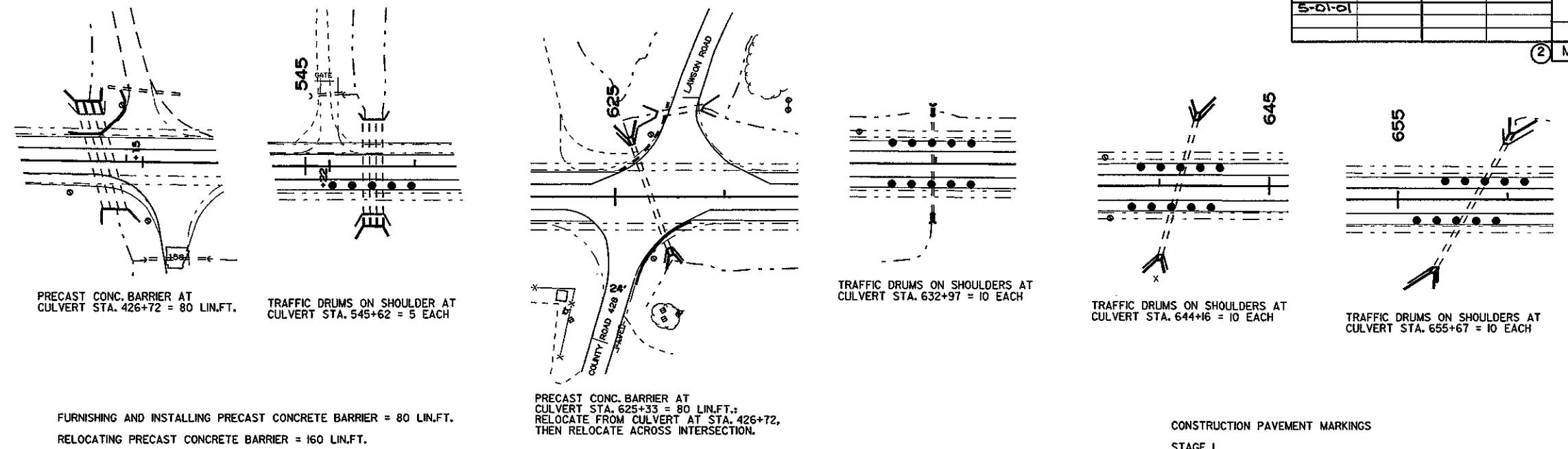
DIVISION ENGINEER

DATE

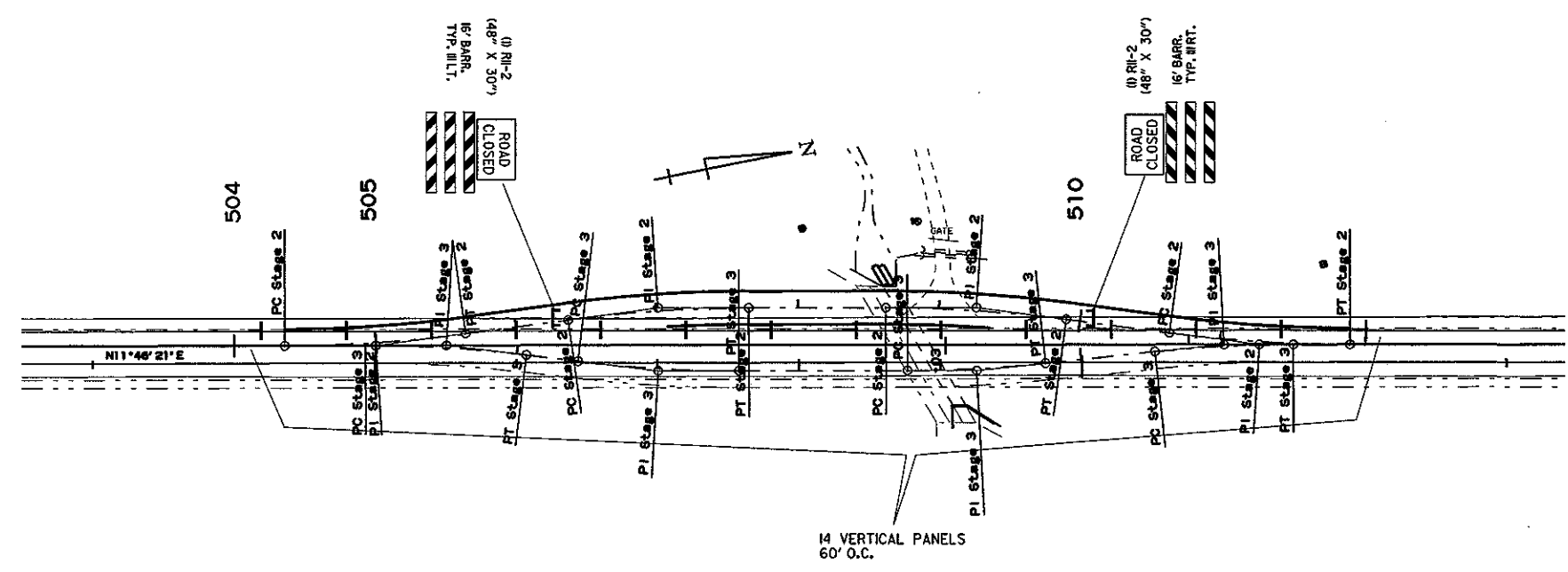
DATE

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-01-01				6	ARK.			
						JOB NO. 100526	9	185

② MAINTENANCE OF TRAFFIC



### CULVERT EXTENSIONS IN STAGE I



SEQUENCING:

STAGE I= MOST CULVERT EXTENSIONS AND LEVELING;  
INSTALL TEMP PIPE AT CULVERT STA. 508+88;  
CONSTRUCT TEMP. WIDENING LT. STA. 504+35 - STA. 511+92

STAGE II= WIDEN ON PASSING-LANE SIDE;  
SHIFT TRAF. LT. AT CULVERTS STA. 508+75 & STA. 508+88  
EXTEND BOX STA. 508+88  
CONSTRUCT RT. PORTION OF R.C. BOX STA. 508+75

STAGE III= WIDEN OR OVERLAY ON OPPOSITE SIDE OR  
SHIFT TRAF. TO RT. AT CULVERTS STA. 508+75 & STA. 508+88  
CONSTRUCT LT. PORTION OF R.C. BOX STA. 508+75  
RESTORE LT. PAVEMENT & SHOULDER TO ORIGINAL SECTION.

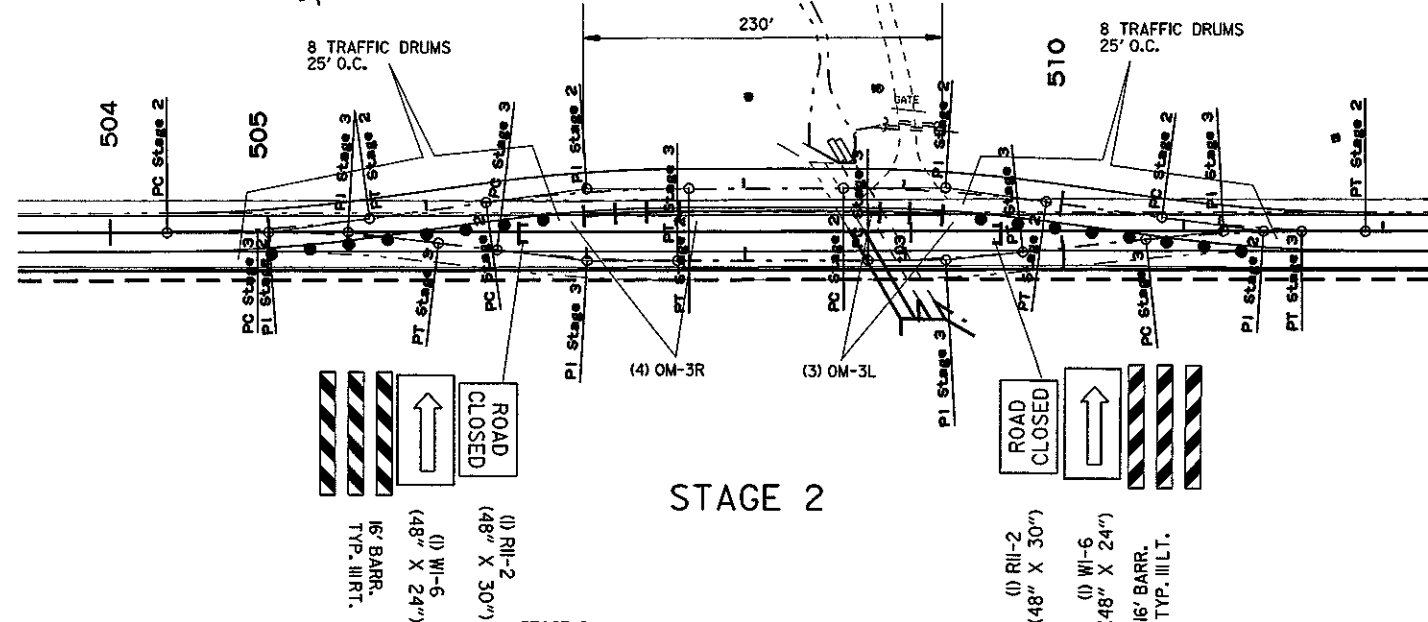
STAGE IV = FINAL SURFACING AND STRIPING

### MAINTENANCE OF TRAFFIC STAGE I

### WIDENING LEFT IN STAGE I

STAGE 2  
REMOVAL OF PERMANENT PAVEMENT MARKINGS  
LT. EDGE + EXISTING CENTERLINES THROUGH TIE-INS FOR DETOUR = 1475 LIN.FT.

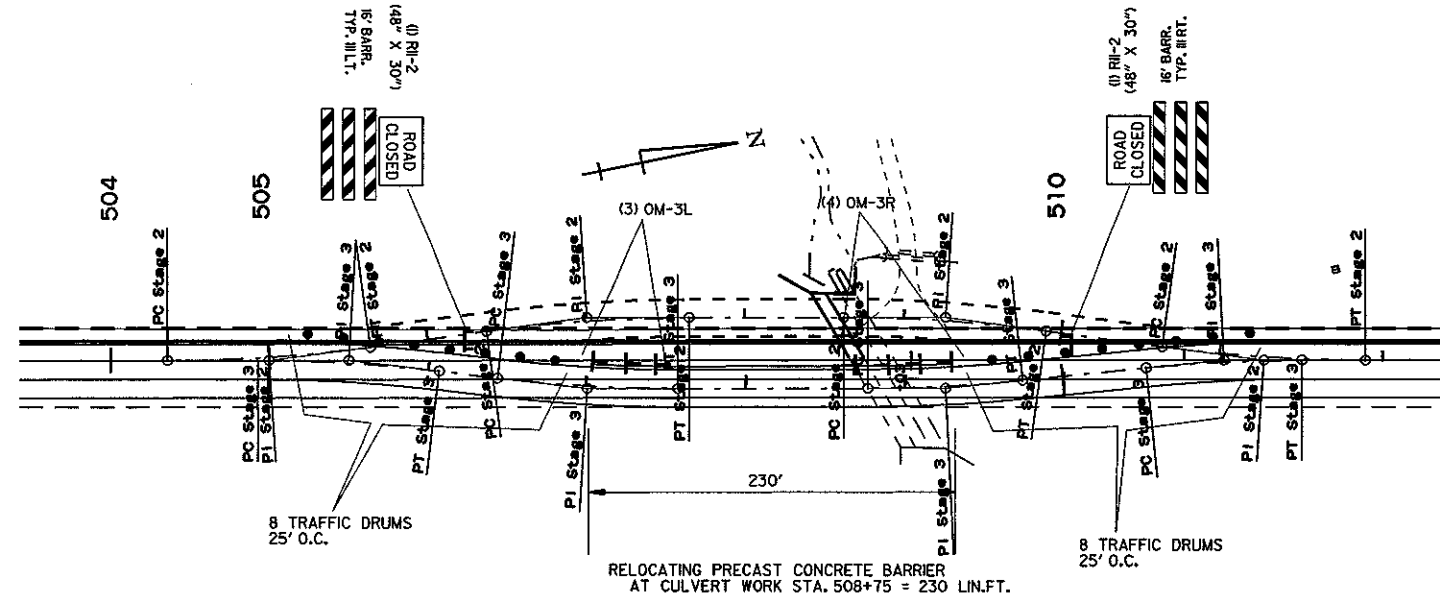
RELOCATING PRECAST CONCRETE BARRIER  
AT CULVERT WORK STA. 508+66 = 80 LIN.FT.  
FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER  
AT CULVERT WORK STA. 508+66 = 150 LIN.FT.



### STAGE 2

STAGE 2  
CONSTRUCTION PAVEMENT MARKINGS  
EDGE LINES + DBL CENTERLINE ENTIRE STAGE 2 DETOUR ALIGNMENT = 3025 LIN.FT.  
NO PASSING ZONES APPROACHING DETOUR BOTH DIRECTIONS = 2000 LIN.FT.  
RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)  
40' O.C. ON DETOUR CENTERLINE = 19 EACH

STAGE 3  
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS  
RT. EDGE LINE + DBL CENTERLINE THROUGH TIE-INS OF STAGE 2 DETOUR = 1116 LIN.FT.



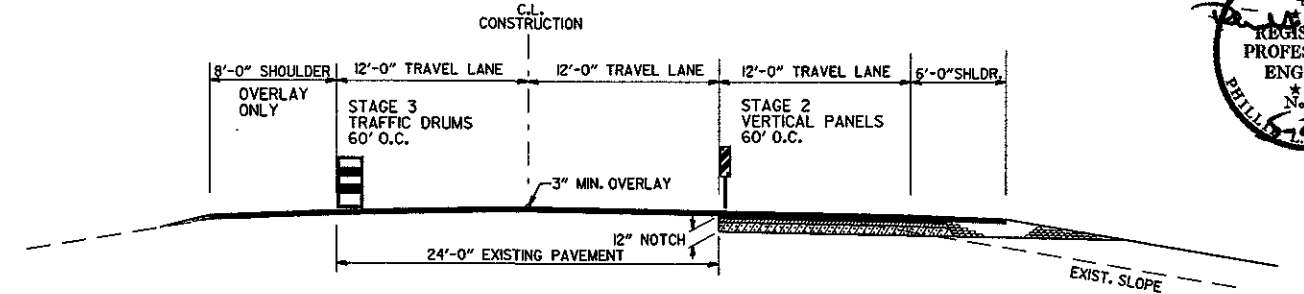
### STAGE 3

STAGE 3  
CONSTRUCTION PAVEMENT MARKINGS  
EDGE LINES + DBL CENTERLINE ENTIRE STAGE 3 DETOUR ALIGNMENT = 2631 LIN.FT.  
RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)  
40' O.C. ON CENTERLINE = 16 EACH

## WIDENING AND OVERLAY IN STAGES 2 & 3

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-01-01				6	ARK.			
						100526	10	185

② MAINTENANCE OF TRAFFIC

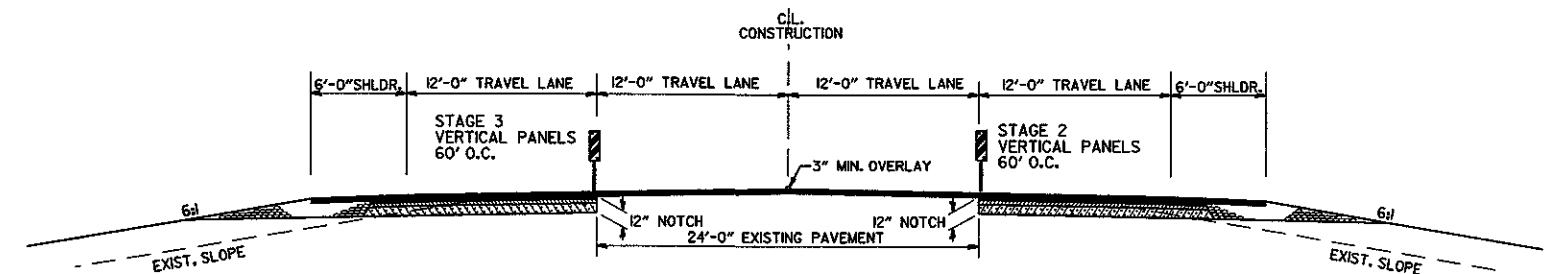


M O T TO ADD PASSING LANE ON RT.

SECTION 2 STA. 483+50 - STA. 560+00  
= 129 EACH (VP STAGE 2 ; TO STAGE 3)

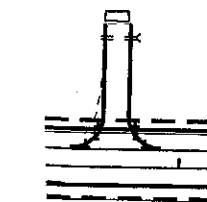
REVERSE TO ADD PASSING LANE ON LT.

SECTION 1 STA. 400+00 - STA. 480+00  
= 134 EACH (VP STAGE 2 ; TO STAGE 3)



M O T FOR PASSING LANE LT. & RT.

SECTION 3  
STA. 602+00 - STA. 698+00 STAGE 2 = 161 EACH (VP)  
STA. 616+00 - STA. 712+00 STAGE 3 = 161 EACH (VP)



### TRAFFIC CONES AT TURNOUTS

TYPICALLY 6 CONES PER TURNOUT  
MAX IN STAGE 2 = 138 CONES  
MAX IN STAGE 3 = 102 CONES

### SEQUENCING:

STAGE I = MOST CULVERT EXTENSIONS AND LEVELING;  
INSTALL TEMP PIPE AT CULVERT STA. 508+88;  
CONSTRUCT TEMP. WIDENING LT. STA. 504+35 - STA. 511+92

STAGE II = WIDEN ON PASSING-LANE SIDE;  
SHIFT TRAF. LT. AT CULVERTS STA. 508+75 & STA. 508+88  
EXTEND BOX STA. 508+88  
CONSTRUCT RT. PORTION OF R.C. BOX STA. 508+75

STAGE III = WIDEN OR OVERLAY ON OPPOSITE SIDE OR  
SHIFT TRAF. TO RT. AT CULVERTS STA. 508+75 & STA. 508+88  
CONSTRUCT LT. PORTION OF R.C. BOX STA. 508+75  
RESTORE LT. PAVEMENT & SHOULDER TO ORIGINAL SECTION.

STAGE IV = FINAL SURFACING AND STRIPING

NOTE:  
THE TOTAL LENGTH OF THE WORK AREA ON THE ENTIRE PROJECT  
HAVING VERTICAL DIFFERENCES GREATER THAN 4"  
SHALL BE LIMITED TO ONE MILE.

## MAINTENANCE OF TRAFFIC STAGES 2 & 3

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-04-01				6	ARK.			
				JOB NO.		I00526	18	185

② QUANTITIES



STRUCTURES

STATION	STATION	LOCATION / DESCRIPTION	SPAN	HEIGHT	LENGTH	SIDE DRAINS				R.C. PIPE CULVERTS (CLASS III)				FLARED END SECT. FOR R.C. PIPE CULV'TS.				SAFETY END SECT. FOR R.C. PIPE CULV'TS. (CLASS 2)				CLASS 5 CONCRETE - ROADWAY	REINFORCING STEEL-ROADWAY (GRADE 60)	UNCL. EXCAV. FOR STRUCTURES - ROADWAY	SOLID SODDING	WATER	STANDARD DRAWINGS
						18"	24"	30"	36"	18"	24"	36"		18"	24"	36"		18"	24"	36"							
						LIN. FT.				EACH								CUL. YD.	POUND	CUL. YD.	SO. YD.	M. GAL.					
410+81		INSTALL PIPE CULV'T. - LT. SIDE DRAIN				48																			PCC-1, PCH-1		
425+36		INSTALL PIPE CULV'T. - LT. SIDE DRAIN				28																			PCC-1, PCH-1		
426+72		SOLID SOD FOR EXTENDED EXIST. TRI. R.C. BOX CULV'T. LT.	7	4	12																		14.7	0.3	RCB-2		
427+13		INSTALL PIPE CULV'T. - LT. SIDE DRAIN				40																			PCC-1, PCH-1		
508+75		CONSTRUCT DBL. 7'x4'x102' R.C. BOX CULV'T. ON 30° RT. FWD. SKEW	7	4	102																107.69	18800.2	50.7	15.0	0.3	RCB-1, RCB-2, RCB-3, W-X30, W-X303-1, R-230X-0	
508+88		EXTEND EXIST. R.C. BOX CULV'T. RT.																			15.52	1770.0	10.9	13.0	0.2	RCB-1, RCB-2, RCB-3, W-X30, W-X303-1, R-130X-0	
545+62		EXTEND EXIST. TRI. R.C. BOX CULV'T. RT.																						12.3	0.2	RCB-2	
623+33		EXTEND EXIST. R.C. BOX CULV'T. LT. & RT.																						21.4	0.4	RCB-1, RCB-2, RCB-3, W-X15, W-X153-1, R-115X-0	
632+97		EXTEND EXIST. R.C. PIPE CULV'T. LT. & RT./F.E.S. LT. & RT.								26				2							16.79	1475.8	13.1	18.0	0.3	PCC-1, FES-1, FES-2	
636+69		INSTALL PIPE CULV'T. - LT. SIDE DRAIN								48																PCC-1, PCH-1	
638+82		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				32																				PCC-1, PCH-1	
640+73		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				34																				PCC-1, PCH-1	
644+16		EXTEND EXIST. R.C. BOX CULV'T. LT. & RT.	4	4	11																14.37	1077.0	11.8	20.6	0.3	RCB-1, RCB-2, RCB-3, W-X15, W-X153-1, R-115X-0	
649+55		EXTEND EXIST. R.C. PIPE CULV'T. LT. /F.E.S. RT. & S.E.S. LT.								12				1				1						16.0	0.3	PCC-1, SES-1, FES-1, FES-2	
652+87		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				34																				PCC-1, PCH-1	
652+95		INSTALL PIPE CULV'T. - LT. SIDE DRAIN				36																				PCC-1, PCH-1	
655+67		EXTEND EXIST. R.C. BOX CULV'T. (30° LT. FWD. SKEW) LT. & RT.	4	4	15																17.72	1355.1	14.4	24.0	0.4	RCB-1, RCB-2, RCB-3, W-X30, W-X303-1, R-130X-0	
658+09		EXTEND EXIST. R.C. PIPE CULV'T. LT. & RT./F.E.S. LT. & RT.								8				2										16.0	0.3	PCC-1, FES-1, FES-2	
667+36		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				28																				PCC-1, PCH-1	
670+62		EXTEND EXIST. R.C. PIPE CULV'T. LT. & RT./F.E.S. LT. & RT.								8				2										16.0	0.3	PCC-1, FES-1, FES-2	
673+96		EXTEND EXIST. R.C. PIPE CULV'T. LT. /F.E.S. LT. & RT.								20				2										16.0	0.3	PCC-1, FES-1, FES-2	
677+76		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				28																				PCC-1, PCH-1	
688+69		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				70																				PCC-1, PCH-1	
690+69		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				28																				PCC-1, PCH-1	
692+39		EXTEND EXIST. R.C. PIPE CULV'T. RT. /F.E.S. LT. & RT.								10				2										16.0	0.3	PCC-1, FES-1, FES-2	
693+65		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				32																				PCC-1, PCH-1	
696+41		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				36																				PCC-1, PCH-1	
698+07		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				30																				PCC-1, PCH-1	
699+43		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				28																				PCC-1, PCH-1	
702+29		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				28																				PCC-1, PCH-1	
705+68		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				50																				PCC-1, PCH-1	
668+00		INSTALL PIPE CULV'T. - RT. SIDE DRAIN				36																				PCC-1, PCH-1	
TOTALS						498	1	98		84				11				1				172.09	24478.1	100.9	217.0	3.9	
STRUCTURES OVER 20'-0" SPAN																											
426+72		EXTEND EXIST. TRI. R.C. BOX CULV'T. LT.	7	4	12																27.50	4426.5	9.1			RCB-1, RCB-3, W-X15, W-X153-1, R-315X-0	
545+62		EXTEND EXIST. TRI. R.C. BOX CULV'T. RT.	6	3	11																20.20	3390.0	11.7			RCB-1, RCB-2, RCB-3, W-X003-1, R-300X-0	
TOTALS																					47.70	7816.5	20.8				
TOTALS JOB I00526						498	1	98		84				11				1				219.79	32294.6	121.7	217.0	3.9	

NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS, USE TYPE 3 BEDDING, UNLESS OTHERWISE SPECIFIED.  
FOR C.M. PIPE CULVERT INSTALLATIONS, USE TYPE 2 BEDDING, UNLESS OTHERWISE SPECIFIED.  
BASIS OF ESTIMATE: WATER.....16.7 GAL. PER SQ. YD. SOLID SODDING  
NOTE: REMOVAL AND DISPOSAL OF EXISTING LONG WINGWALL ON THE OUTLET END OF THE BOX CULVERT AT STA. 508+88 WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO THE CONSTRUCTION OF THE NEW BOX CULVERT AT STA. 508+75

STA. 508+75 CONSTRUCT  
DBL. 7' X 4' X 102' R.C. BOX CULVERT  
ON 30° RT. FWD. SKEW  
D.A. = 544 Ac.; Q50 = 950 c.f.s.

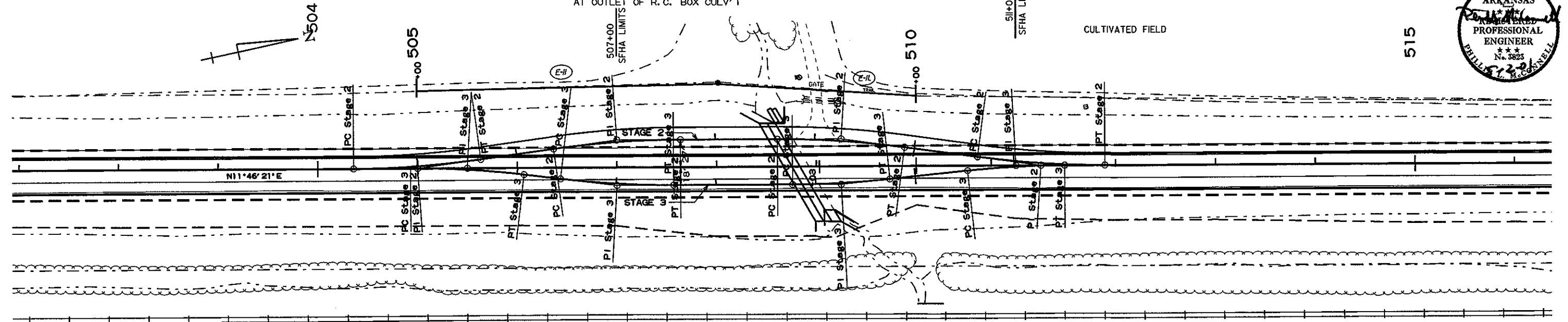
STA. 508+88 IN PLACE  
8' X 4' X 90' R.C. BOX CULVERT  
ON 30° RT. FWD. SKEW  
RETAIN & EXTEND 12' RT.  
D.A. = 544 Ac.; Q50 = 950 c.f.s.

STA. 509+03 IN PLACE  
DBL. 24' X 30' C.M. PIPE CULVERT  
LT. SIDE DRAIN  
RETAIN

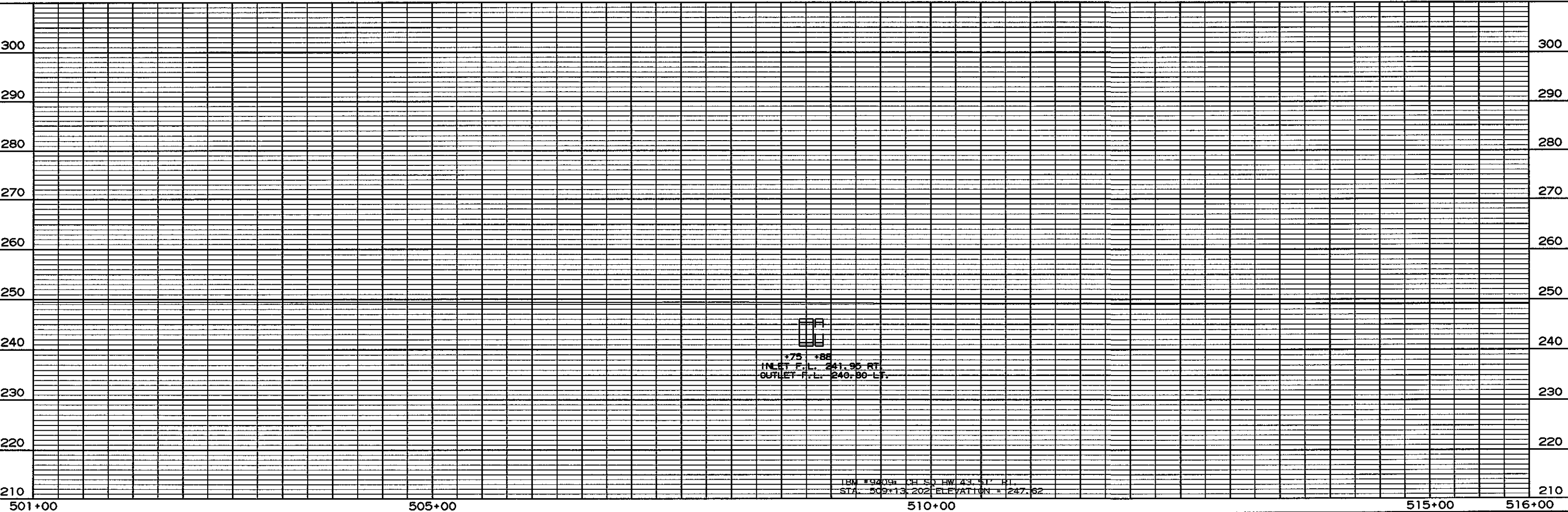
STA. 508+88 INSTALL  
DBL. 48' X 20' TEMP. PIPE CULV'T  
ON 30° RT. FWD. SKEW  
AT OUTLET OF R.C. BOX CULV'T

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-01-01				6	ARK.			
				JOB NO.	100526		37	185

PLAN/PROF. STA. 501+00 - STA. 516+00



STAGE 2				STAGE 3			
P.I. 505+00.00	P.I. 507+01.62	P.I. 509+26.43	P.I. 511+28.05	P.I. 505+50.00	P.I. 507+00.94	P.I. 509+25.81	P.I. 511+01.64
$\Delta = 7^{\circ} 41' 19.1''$ LT.	$\Delta = 7^{\circ} 41' 18.7''$ RT.	$\Delta = 7^{\circ} 41' 17.8''$ RT.	$\Delta = 7^{\circ} 41' 14.9''$ LT.	$\Delta = 6^{\circ} 50' 33.3''$ RT.	$\Delta = 6^{\circ} 50' 33.2''$ LT.	$\Delta = 5^{\circ} 52' 20.6''$ LT.	$\Delta = 5^{\circ} 52' 21.5''$ RT.
D = 6' 00' 00"	D = 6' 00' 00"	D = 6' 00' 00"	D = 6' 00' 00"	D = 6' 00' 00"	D = 6' 00' 00"	D = 6' 00' 00"	D = 6' 00' 00"
T = 64.17'	T = 64.17'	T = 64.17'	T = 64.16'	T = 57.09'	T = 57.09'	T = 48.98'	T = 48.98'
L = 128.05'	L = 128.14'	L = 128.14'	L = 128.13'	L = 114.04'	L = 114.04'	L = 97.67'	L = 97.88'
P.C. 504+35.83	P.C. 506+37.45	P.C. 508+62.26	P.C. 510+63.89	P.C. 504+92.91	P.C. 506+43.85	P.C. 508+76.83	P.C. 510+52.66
P.T. 505+63.98	P.T. 507+65.59	P.T. 509+90.40	P.T. 511+92.02	P.T. 506+06.95	P.T. 507+57.89	P.T. 509+74.70	P.T. 511+50.54





4', 5', 6', 7' AND 8' SPANS      2:1, 3:1 OR 4:1 SLOPES  
DOUBLES      UNDER 5'-0" COVER  
STANDARD DRAWING No. R-230X-0