

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	I	96	
HWY. 167 - HWY. 226 (SEL. SECS.) (CABLE MEDIAN BARRIER) (S)								

"A FULLY CONTROLLED ACCESS FACILITY"  
 ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
 CONSTRUCTION PLANS FOR STATE HIGHWAY

HWY. 167 - HWY. 226  
 (SEL. SECS.)

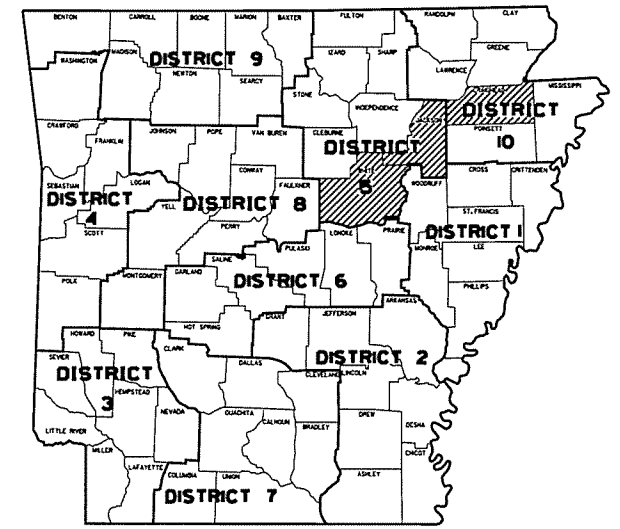
(CABLE MEDIAN BARRIER) (S)

WHITE, JACKSON & CRAIGHEAD COUNTIES

ROUTE 67 SECTIONS 13, 14 & 15

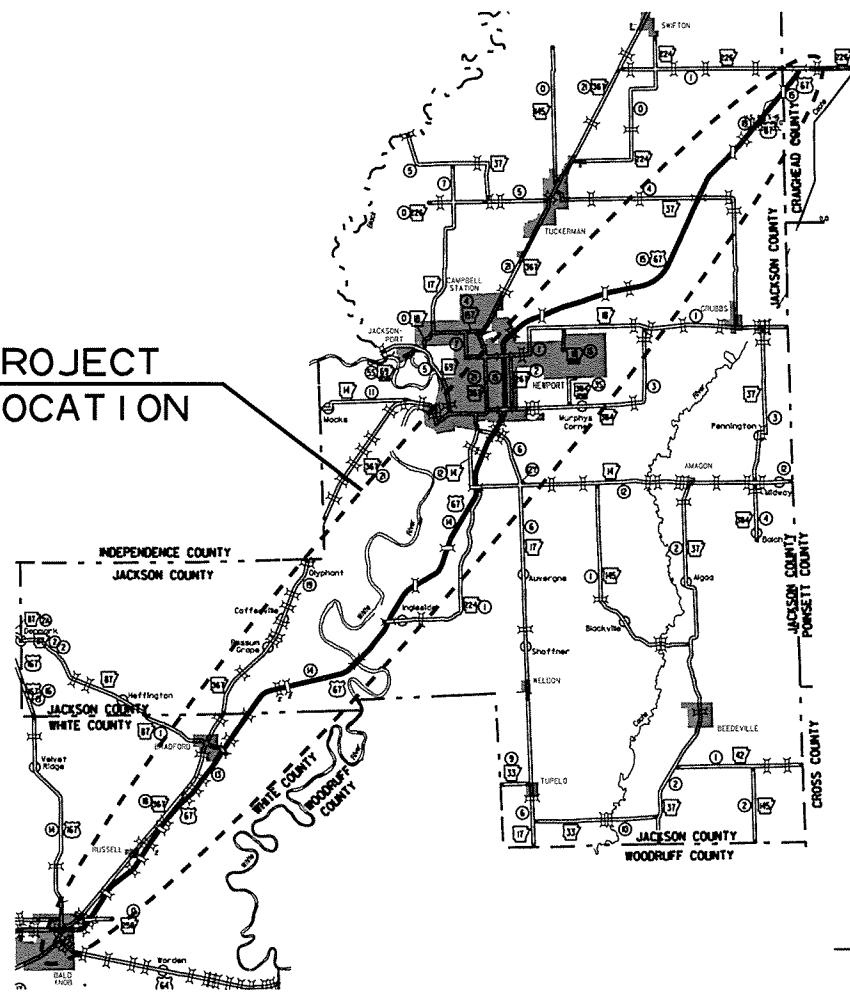
JOB 012195

FED. AID PROJ. HSIP-0076(96)



ARK. HWY. DIST. NO. 5 & 10

PROJECT LOCATION



VICINITY MAP

EQUATIONS TO JOB 012195

STA. 2157+07.10(BK.)	-	STA. 0+00.00(AHD.)
STA. 457+39.80(BK.)	-	STA. 457+23.65(AHD.)
STA. 903+53.30(BK.)	-	STA. 903+54.30(AHD.)
STA. 1359+37.27(BK.)	-	STA. 1360+00.70(AHD.)
STA. 1494+02.87(BK.)	-	STA. 1494+44.06(AHD.)

EXCEPTIONS TO JOB 012195

STA. 6+81	-	STA. 13+07	=	626.00'
STA. 257+98	-	STA. 263+52	=	554.00'
STA. 374+41	-	STA. 375+31	=	90.00'
STA. 484+30	-	STA. 898+10	=	41380.00'
STA. 1380+17	-	STA. 1387+62	=	745.00'
STA. 1430+26	-	STA. 1435+75	=	549.00'
STA. 1627+10.31	-	STA. 1699+87.83	=	7277.52'
STA. 1733+05.73	-	STA. 1805+39.48	=	7233.75'
STA. 2169+78	-	STA. 2177+58	=	780.00'

TOTAL EXCEPTIONS = 59235.27'

BEGINNING OF PROJECT LAT. = N 35°19'10.6" LONG. = W 91°33'39.1"	MID-POINT OF PROJECT LAT. = N 35°33'50.2" LONG. = W 91°15'41.3"	END OF PROJECT LAT. = N 35°47'49.7" LONG. = W 91°01'20.5"
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STA. 1805+39.48  
SECTION 15  
LOG MILE 7.06

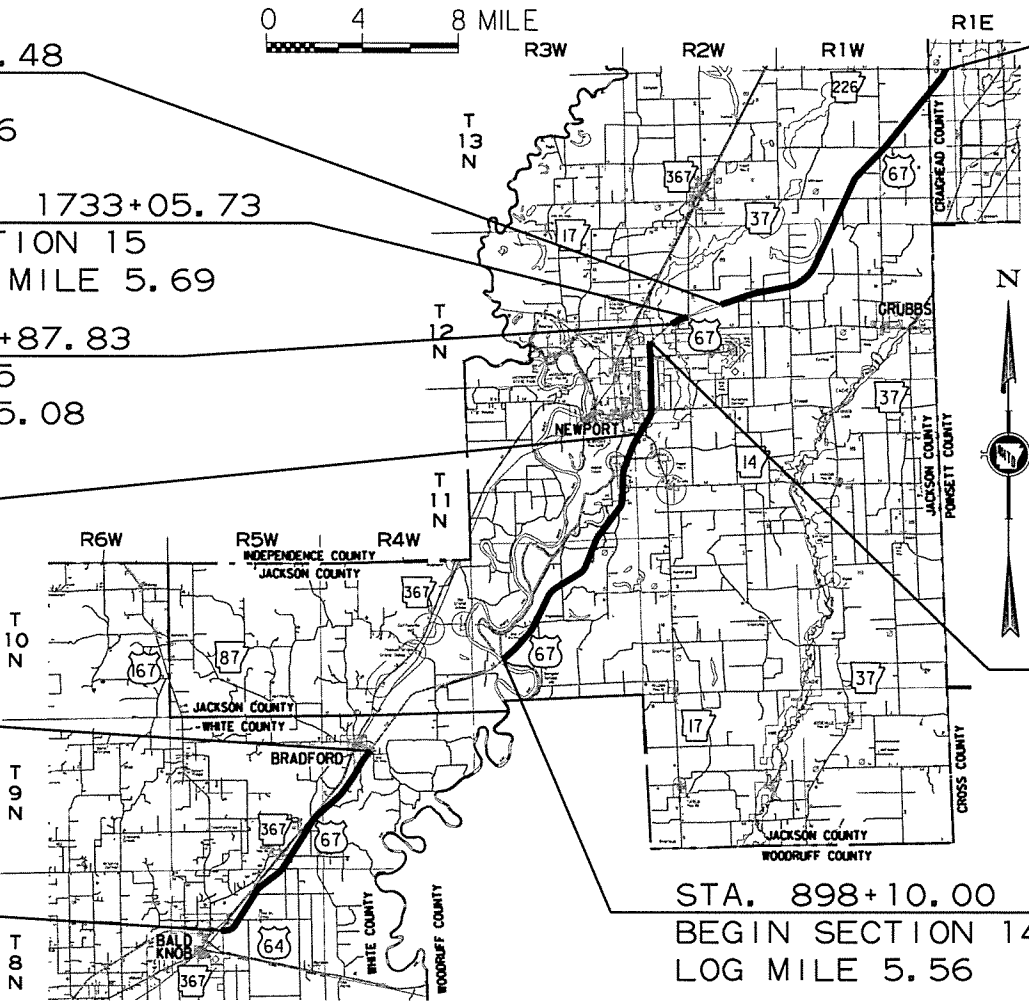
STA. 1733+05.73  
SECTION 15  
LOG MILE 5.69

STA. 1699+87.83  
SECTION 15  
LOG MILE 5.08

STA. 1432+98.03  
END SECTION 14  
LOG MILE 15.66  
BEGIN SECTION 15  
LOG MILE 0.00

STA. 484+30.00  
END SECTION 13  
LOG MILE 18.52

STA. 2150+55.20  
BEGIN JOB 012195  
SECTION 13  
LOG MILE 9.18



GROSS LENGTH OF PROJECT	252736.43	FEET	OR	47.867	MILES
NET " " ROADWAY	193501.16	"	"	36.648	"
NET " " BRIDGES	0.00	"	"	0.000	"
NET " " PROJECT	193501.16	"	"	36.648	"

STA. 2521+74.00  
END JOB 012195  
SECTION 15  
LOG MILE 20.67

DESIGN TRAFFIC DATA

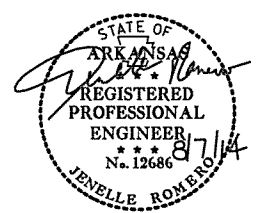
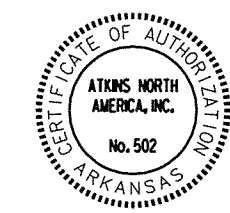
	SECT. 13	SECT. 14	SECT. 15
DESIGN YEAR	2034	2034	2034
2014 ADT	8,700	7,500	5,600
2034 ADT	12,000	10,500	7,300
2034 DHV	1,320	1,150	803
TRUCKS	29%	26%	23%
DESIGN SPEED	70 MPH	70 MPH	70 MPH

LOG MILES

SECTION 13 9.18 TO 18.52 IN WHITE COUNTY  
 SECTION 14 5.56 TO 15.66 IN JACKSON COUNTY  
 SECTION 15 0.00 TO 3.66 IN JACKSON COUNTY  
 SECTION 15 5.08 TO 5.69 IN JACKSON COUNTY  
 SECTION 15 7.06 TO 20.67 IN JACKSON AND CRAIGHEAD COUNTIES

STA. 1627+10.31  
SECTION 15  
LOG MILE 3.66

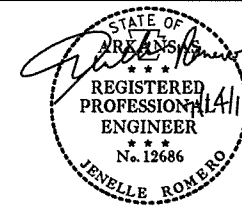
STA. 898+10.00  
BEGIN SECTION 14  
LOG MILE 5.56



P.E. 012195  
NON-PART.

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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
				6	ARK.			
							JOB NO.	
							012195	2
							96	
INDEX, GOV. SPECS., AND GENERAL NOTES								

SHEET NO.	TITLE	DRWG. NO.	DATE
1	TITLE SHEET		
2	INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES		
3	TYPICAL SECTIONS OF IMPROVEMENT		
4 - 5	SPECIAL DETAILS		
6 - 42	TEMPORARY EROSION CONTROL DETAILS		
43 - 45	MAINTENANCE OF TRAFFIC		
46 - 49	QUANTITIES		
50	SUMMARY OF QUANTITIES AND REVISIONS		
51 - 87	PLAN SHEETS		
88	CONCRETE DITCH PAVING	CDP-1	11-17-10
89	GUARD RAIL DETAILS	GR-8	7-14-10
90	GUARD RAIL DETAILS	GR-9A	4-17-08
91	GUARD RAIL DETAILS	GRT-1	7-14-10
92	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	PCC-1	2-27-14
93	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	12-15-11
94	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	9-12-13
95	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	10-15-09
96	TEMPORARY EROSION CONTROL DEVICES	TEC-1	12-15-11

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

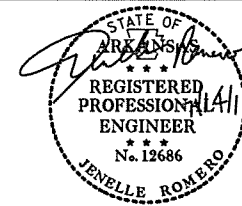
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT-SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT-POSTERS AND NOTICES REQUIRED FOR FEDERAL AID PROJECTS
FHWA-1273	SUPPLEMENT-WAGE RATE DETERMINATION
108-1	LIQUIDATED DAMAGES
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
620-1	MULCH COVER
JOB 012195	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 012195	CONCRETE DITCH PAVING
JOB 012195	COORDINATION OF WORK
JOB 012195	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 012195	MAINTENANCE OF TRAFFIC
JOB 012195	MANDATORY USE OF INTERNET BIDDING
JOB 012195	PARTNERING REQUIREMENTS
JOB 012195	PLASTIC PIPE
JOB 012195	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIERS
JOB 012195	SEQUENCE OF CONSTRUCTION
JOB 012195	SITE USE (A+C METHOD)
JOB 012195	STORM WATER POLLUTION PREVENTION PLAN
JOB 012195	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 012195	SUBMISSION OF CONTRACTOR MATERIALS TEST RESULTS
JOB 012195	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 012195	UTILITY ADJUSTMENTS
JOB 012195	VALUE ENGINEERING
JOB 012195	WARM MIX ASPHALT
JOB 012195	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB 012195	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB 012195	WIRE ROPE SAFETY FENCE (POST REPAIR)
JOB 012195	WRSF TRAINING WORKSHOP

GENERAL NOTES

- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO.210 - UNCLASSIFIED EXCAVATION.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WASTE MATERIAL SHALL BE DISPOSED OF AS APPROVED BY THE ENGINEER.
- CONTRACTOR TO ADJUST WRSF POSTS IN THE FIELD SO THAT THE EXISTING DRAINAGE STRUCTURES ARE AVOIDED.

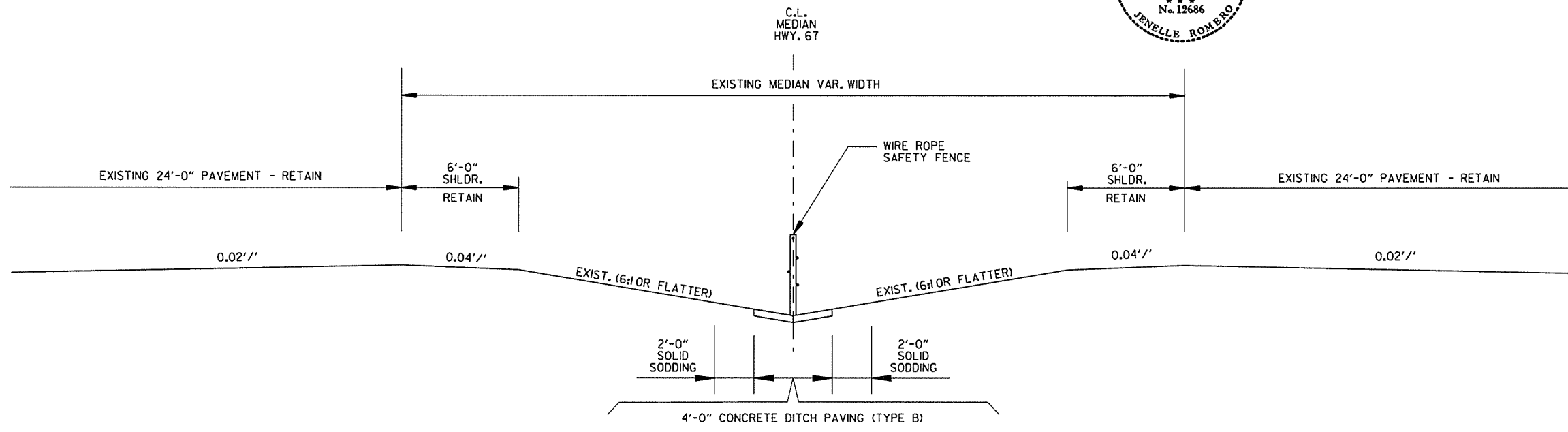
INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES

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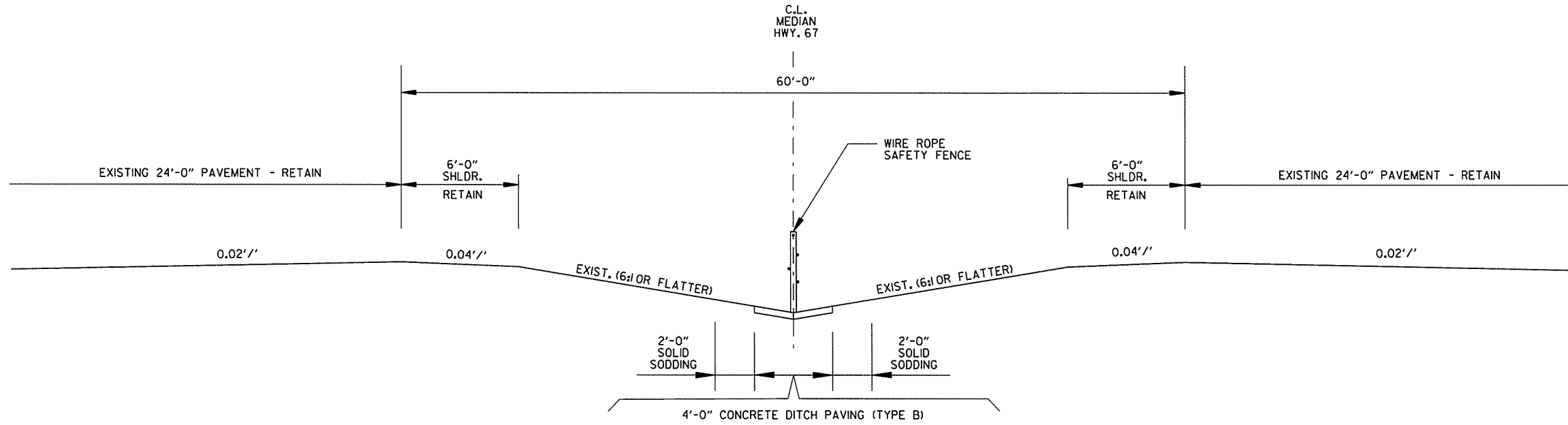


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				6	ARK.			
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TYPICAL SECTIONS OF IMPROVEMENT



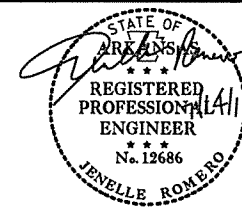
**PROPOSED TYPICAL SECTION  
WRSF IN BOTTOM OF DITCH**  
 STA. 478+55.27 TO STA. 484+30.00  
 STA. 898+10.00 TO STA. 905+42.63  
 STA. 1622+29.11 TO STA. 1627+10.31  
 STA. 1699+87.83 TO STA. 1710+35.26  
 STA. 1805+39.48 TO STA. 1826+34.42



**PROPOSED TYPICAL SECTION  
WRSF IN BOTTOM OF DITCH**  
 STA. 2150+55.20 TO STA. 2157+07.10(BK.)  
 STA. 0+00.00(AHD.) TO STA. 478+55.27  
 STA. 905+42.63 TO STA. 1622+29.11  
 STA. 1710+35.26 TO STA. 1727+98.00  
 STA. 1826+34.42 TO STA. 2521+74.00

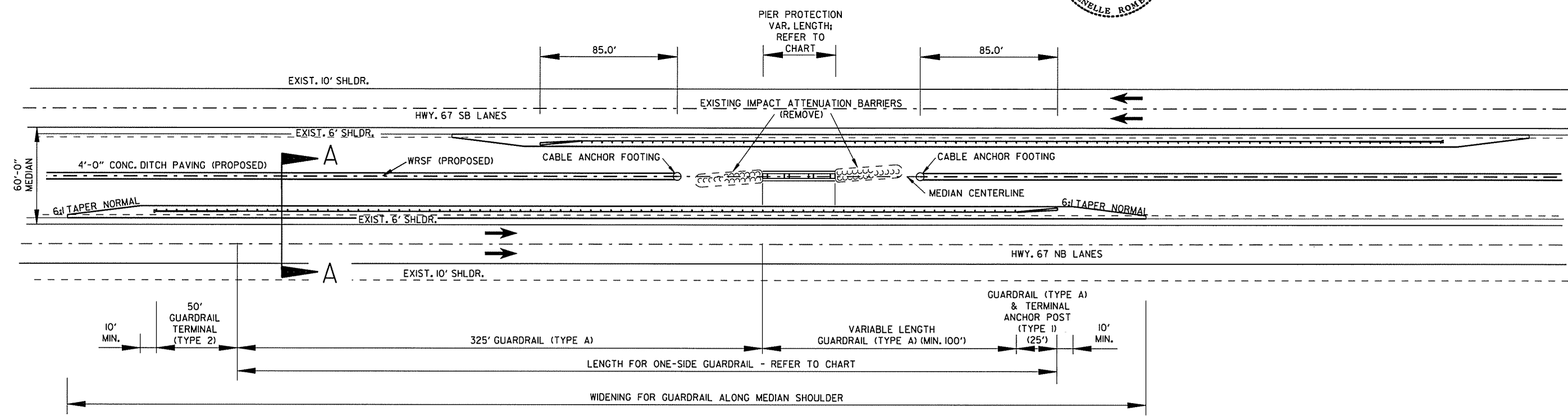
TYPICAL SECTIONS OF IMPROVEMENT

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**SPECIAL DETAILS**

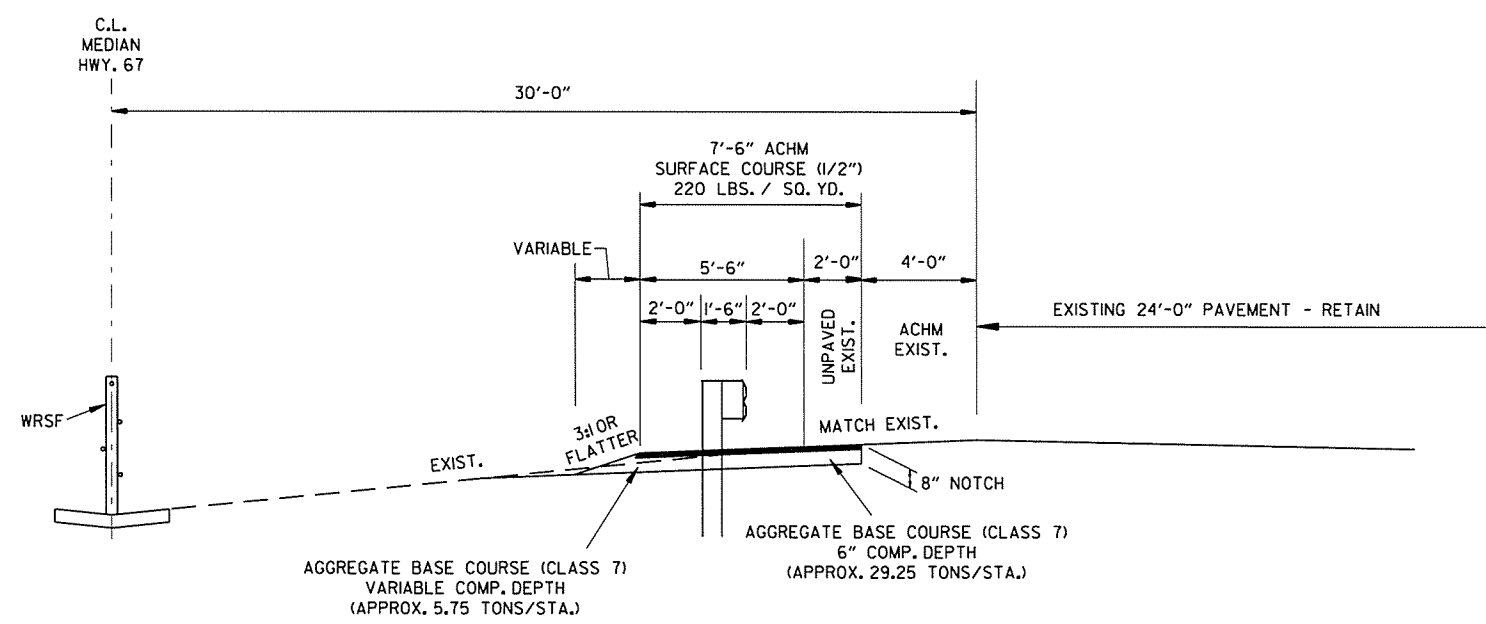


## DETAIL AT OVERPASSES

DIMENSIONS ARE TYPICAL BOTH DIRECTIONS

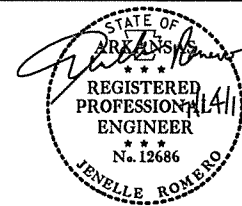
STATION	CROSSING ROAD NAME	PIER PROTECTION LENGTH	LENGTH FOR ONE SIDE GUARDRAIL
57+97	HWY. 258	34.7'	500'
122+46	CURTIS DAVIS RD.	32.8'	500'
226+50	MAIN ST.	44.0'	500'
299+47	HORSESHOE LAKE RD.	28.0'	500'
966+41	HWY. 224	40.4'	500'
1065+72	CO. RD. 16	35.4'	500'
1170+28	CO. RD. 18	36.4'	500'
1312+66	HWY. 14	34.1'	500'
1489+30	HWY. 384	28.3'	500'
1601+46	HWY. 18	36.1'	500'
1728+73	CO. RD. 43	29.7'	500'
1868+36	CO. RD. 41	33.1'	500'
2294+03	CO. RD. 74	38.9'	500'
2457+37	CO. RD. 391	42.5'	500'
2517+24	HWY. 226	65.1'	525'

• GUARDRAIL LENGTH IS ROUNDED UP BASED ON GUARDRAIL STOCK LENGTH OF 25.0'.



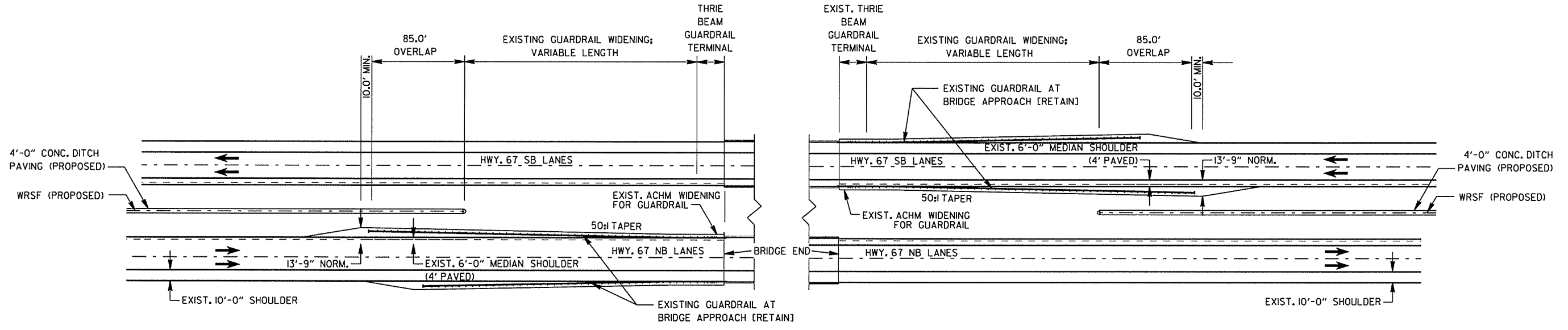
### SECTION A-A

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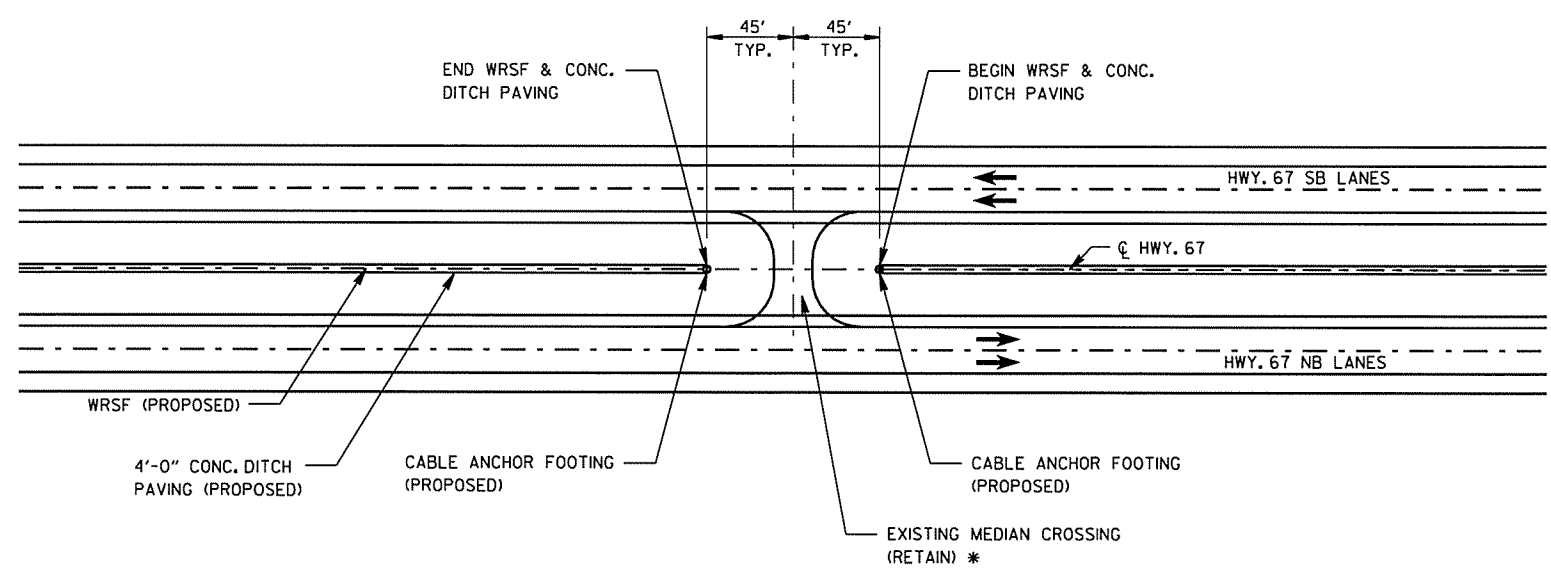


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SPECIAL DETAILS

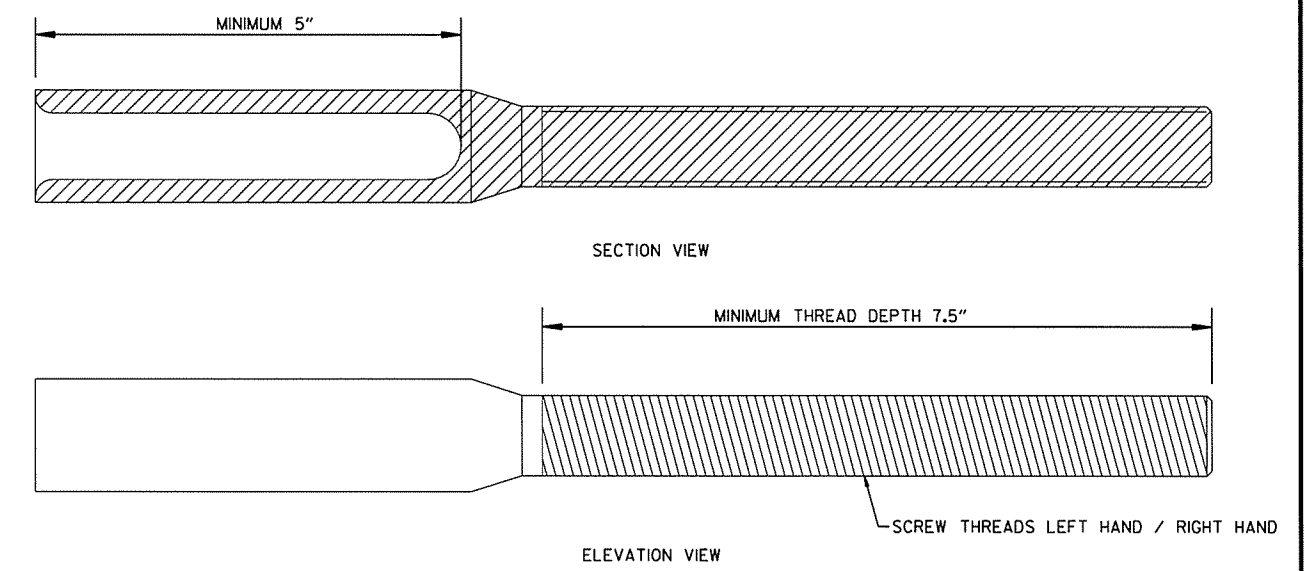


### DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS WRSF IN CL MEDIAN



### DETAIL AT MEDIAN CROSSING

\* MEDIAN CROSSING TO BE CONSTRUCTED OF AGGREGATE BASE COURSE (CLASS 7) - 7" COMPACTED DEPTH & ACHM SURFACE COURSE (1/2") - 220 LBS. PER SQ. YD. (AS SHOWN ON PLANS)

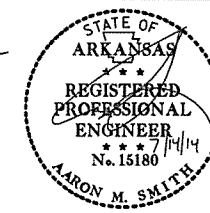


NOTE:  
REFER TO "WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS" SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS.

### THREADED TERMINAL DETAIL

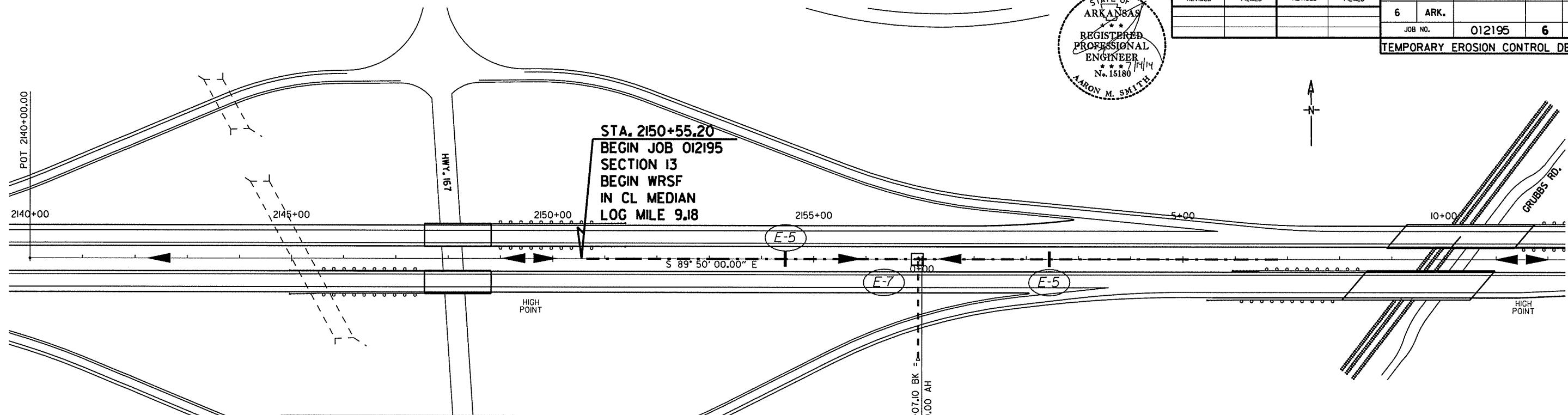
SPECIAL DETAILS

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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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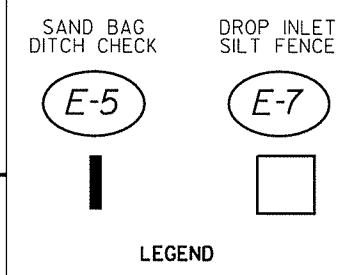
TEMPORARY EROSION CONTROL DETAILS



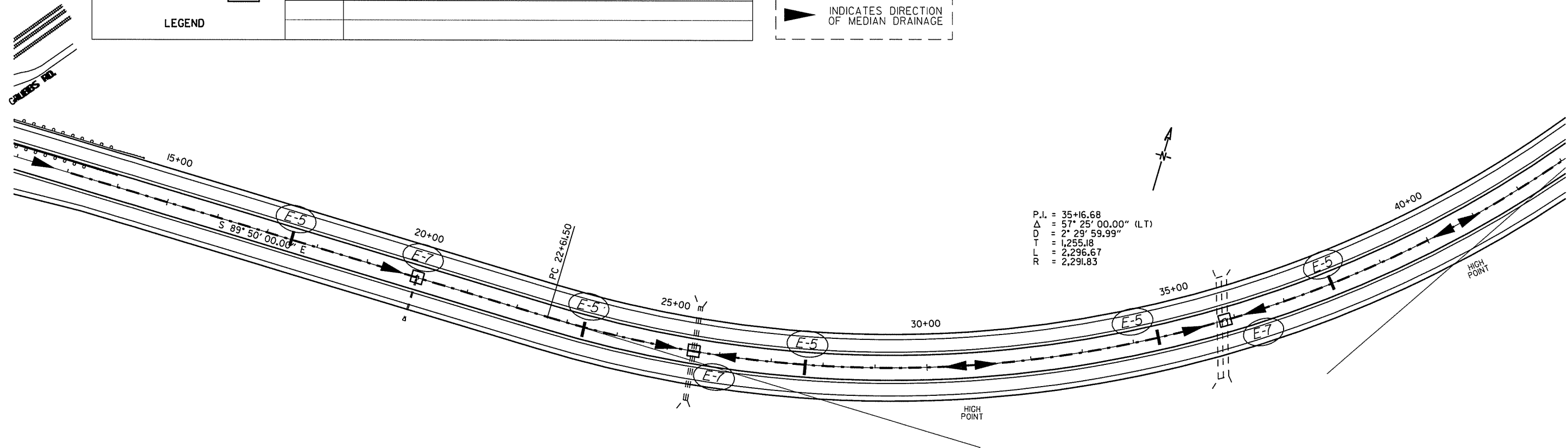
STA. 2150+55.20  
 BEGIN JOB 012195  
 SECTION 13  
 BEGIN WRSF  
 IN CL MEDIAN  
 LOG MILE 9.18

EQUATION:  
 STA. 2157+07.10 BK =  
 STA. 0+00.00 AH

REVISIONS		DATE OF REVISION	REVISION
	SAND BAG DITCH CHECK		
	DROP INLET SILT FENCE		



INDICATES DIRECTION OF MEDIAN DRAINAGE



P.I. = 35+16.68  
 $\Delta$  = 57° 25' 00.00" (LT)  
 D = 2° 29' 59.99"  
 T = 1,255.18  
 L = 2,296.67  
 R = 2,291.83

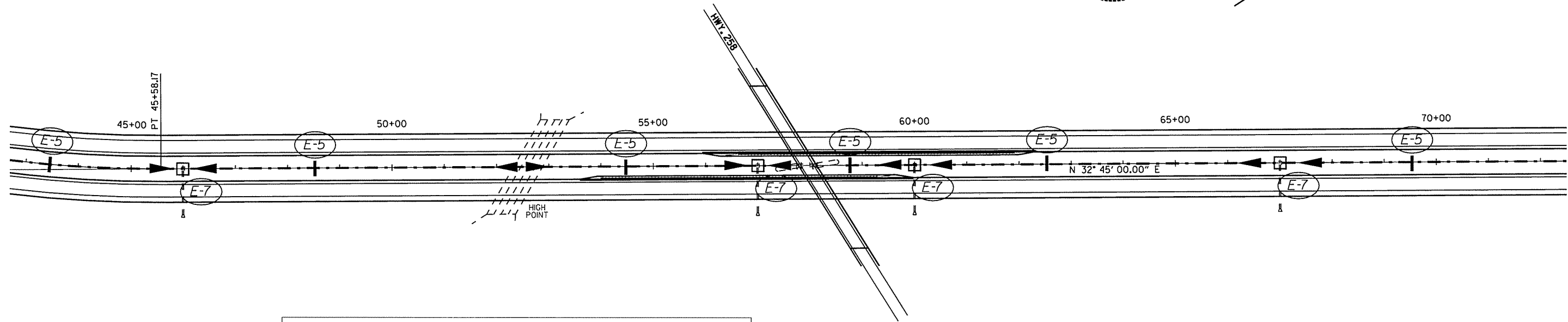
TEMPORARY EROSION CONTROL DETAILS  
 STA. 2140+00 - STA. 43+00

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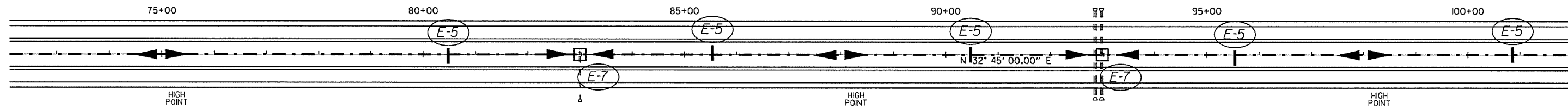
TEMPORARY EROSION CONTROL DETAILS



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



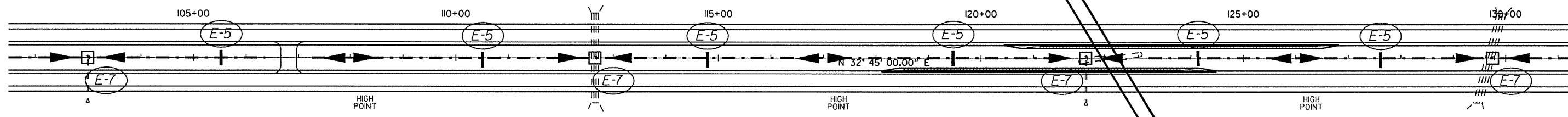
TEMPORARY EROSION CONTROL DETAILS  
STA. 43+00 - STA. 102+00

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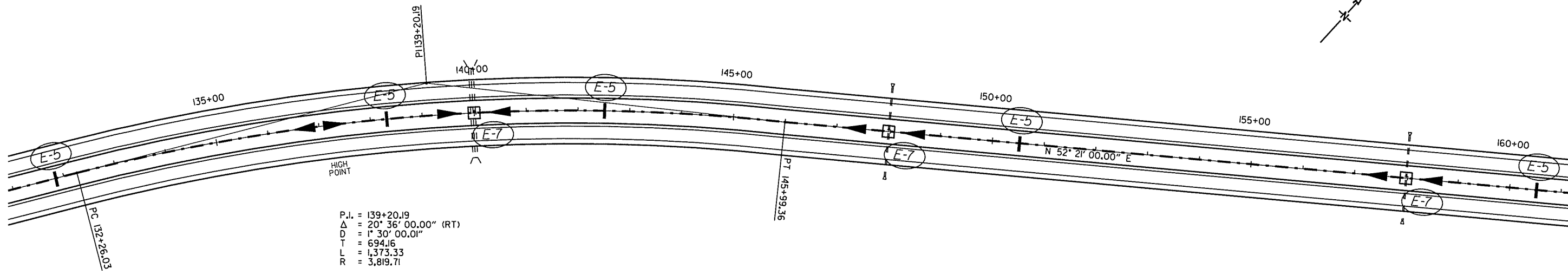
TEMPORARY EROSION CONTROL DETAILS



REVISIONS		DATE OF REVISION	REVISION
SAND BAG DITCH CHECK	DROP INLET SILT FENCE		

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
STA. 102+00 - STA. 161+00

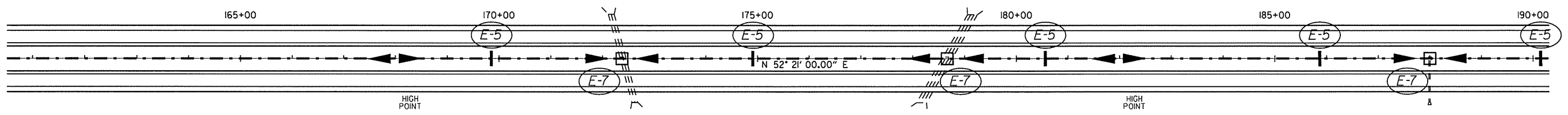
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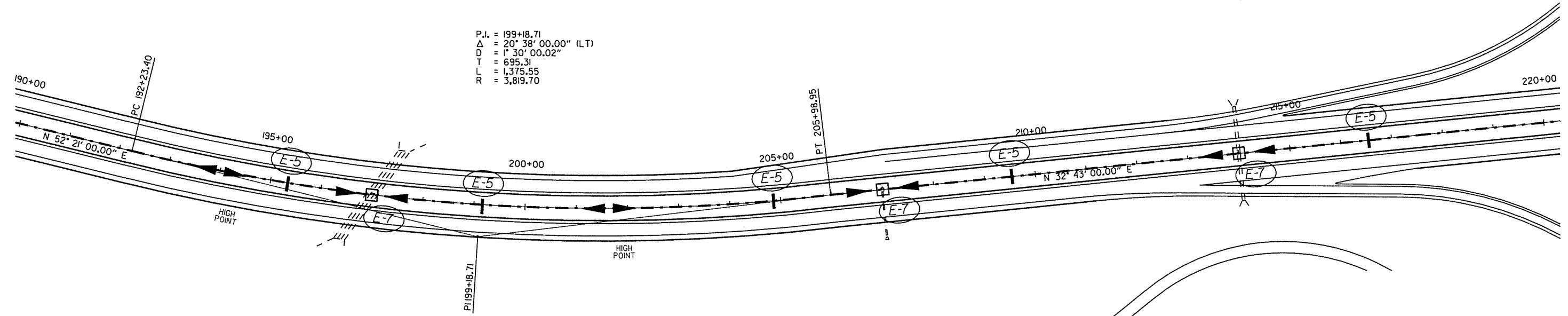
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012195	9 96

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK <b>E-5</b> 	DROP INLET SILT FENCE <b>E-7</b> □	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



P.I. = 199+18.71  
 $\Delta$  = 20° 38' 00.00" (LT)  
 D = 1° 30' 00.02"  
 T = 695.31  
 L = 1,375.55  
 R = 3,819.70

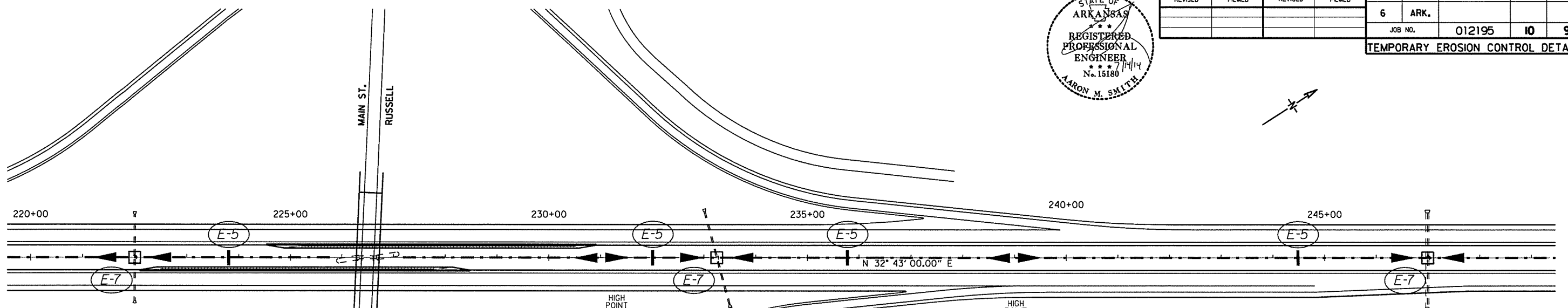
TEMPORARY EROSION CONTROL DETAILS  
 STA. 161+00 - STA. 220+00

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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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						JOB NO. 012195	10	96

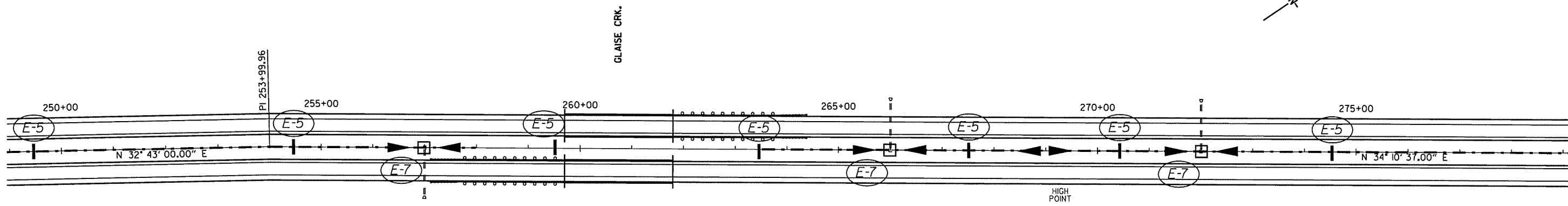
TEMPORARY EROSION CONTROL DETAILS



REVISIONS		DATE OF REVISION	REVISION
	SAND BAG DITCH CHECK		
	DROP INLET SILT FENCE		

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



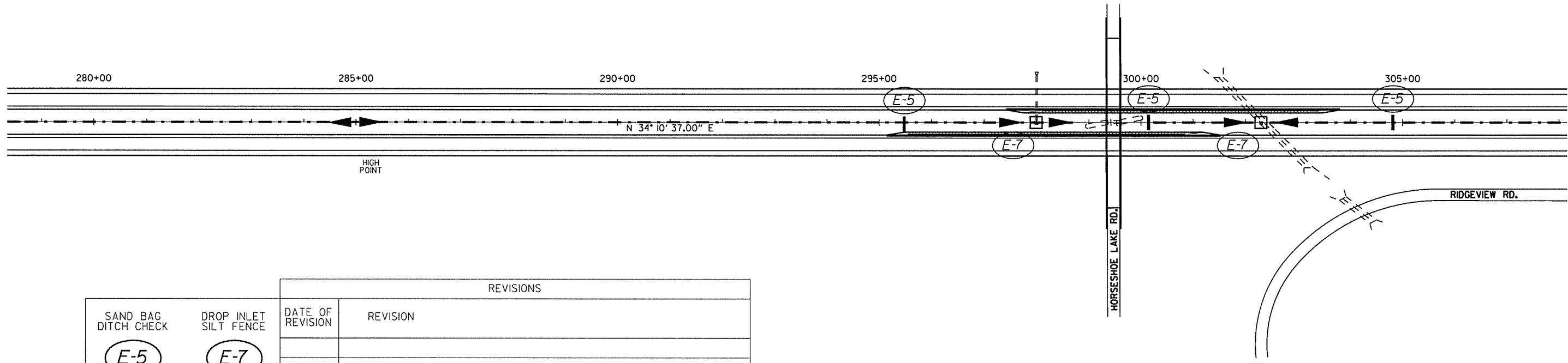
TEMPORARY EROSION CONTROL DETAILS  
STA. 220+00 - STA. 279+00

7/11/2014 11:25 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-5.dgn



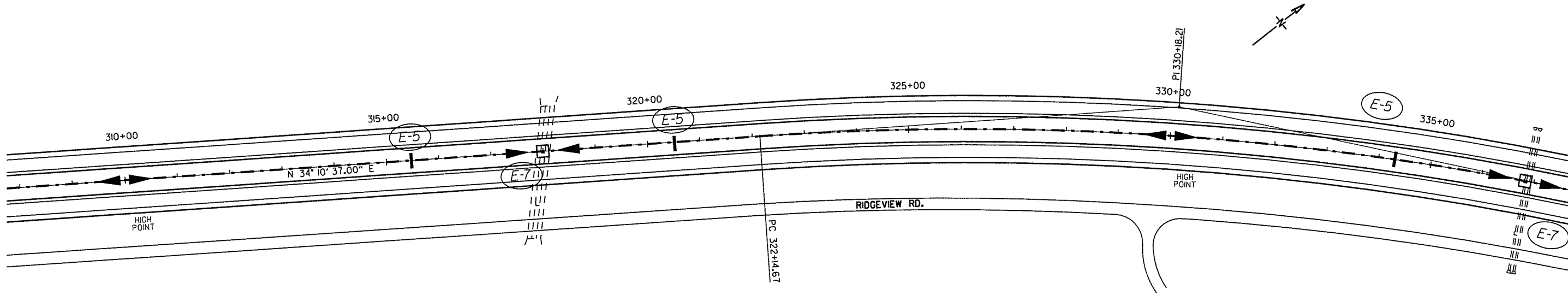
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							II	96

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



P.I. = 330+18.21  
 $\Delta$  = 15° 58' 00.00" (RT)  
 D = 0° 59' 59.99"  
 T = 803.54  
 L = 1,596.67  
 R = 5,729.59

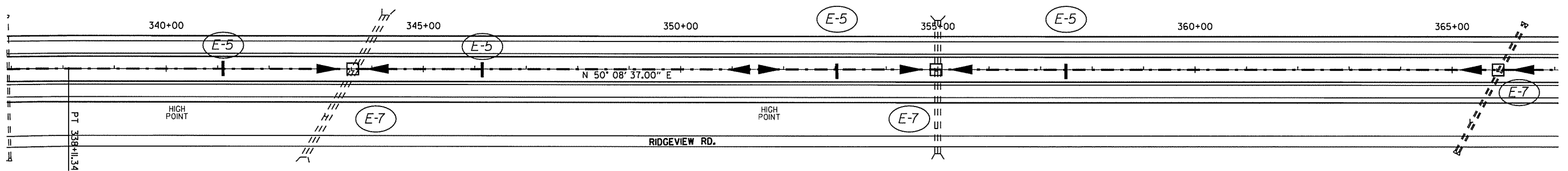
TEMPORARY EROSION CONTROL DETAILS  
 STA. 279+00 - STA. 337+00

7/17/2014 11:09:26 AM P:\00038109\CADD\CSES\038109\_67\HWY67\_EC-6.dwg



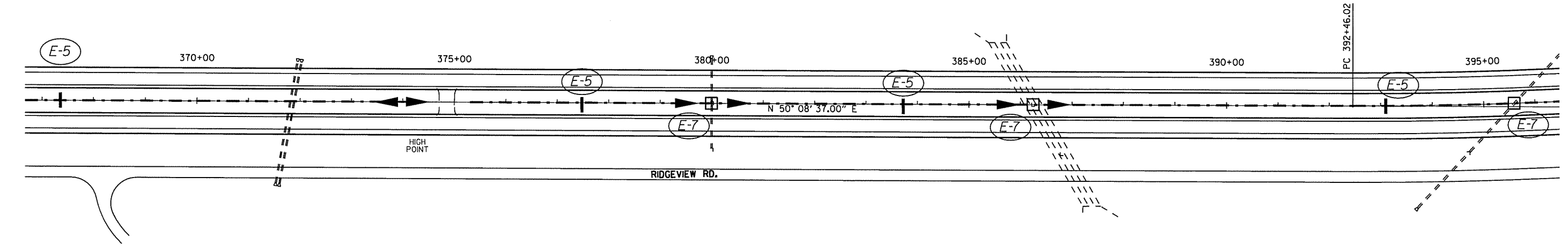
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							12	96

TEMPORARY EROSION CONTROL DETAILS



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



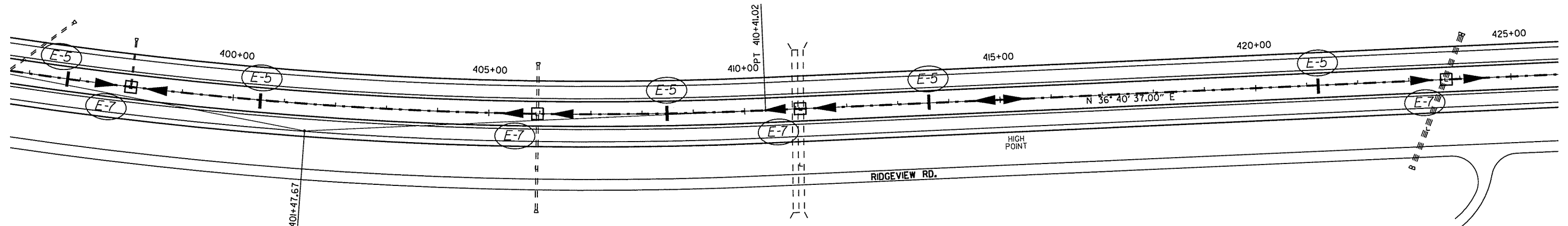
TEMPORARY EROSION CONTROL DETAILS  
STA. 337+00 - STA. 396+00

7/17/2014 11:26 AM P:\100038109\CADD\CES\SHEETS\HWY 67\HWY67\_EC-7.dwg



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012195	13
						TEMPORARY EROSION CONTROL DETAILS		

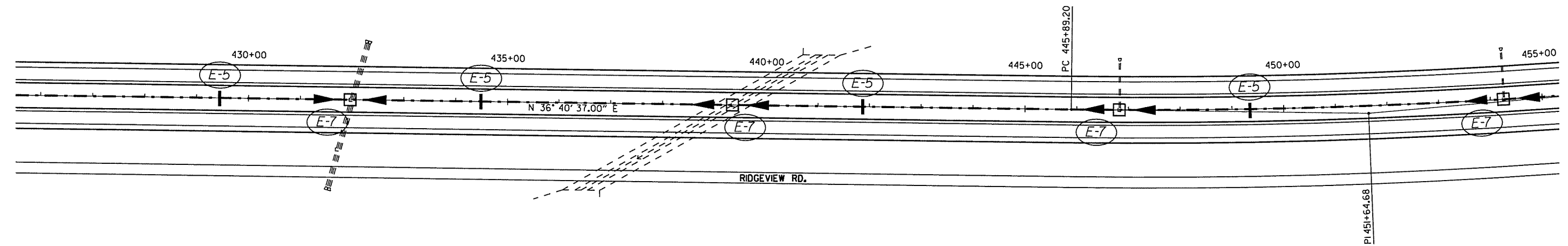
P.I. = 401+47.67  
 $\Delta$  = 13° 28' 00.00" (LT)  
 D = 0° 45' 00.84"  
 T = 901.65  
 L = 1,795.00  
 R = 7,637.07



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
(E-5)	(E-7)		
█	□		
LEGEND			

▶ INDICATES DIRECTION OF MEDIAN DRAINAGE

P.I. = 451+64.68  
 $\Delta$  = 5° 45' 00.00" (LT)  
 D = 0° 30' 00.00"  
 T = 575.48  
 L = 1,150.00  
 R = 11,459.16

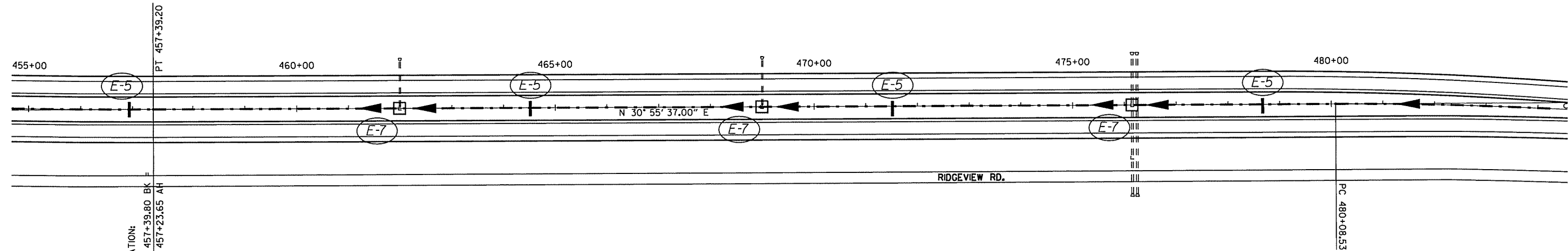


TEMPORARY EROSION CONTROL DETAILS  
 STA. 396+00 - STA. 455+00

7/1/2014 11:26 AM P:\00038109\CAADD\CELSHETS\HWY 67\HWY67\_EC-8.dgn

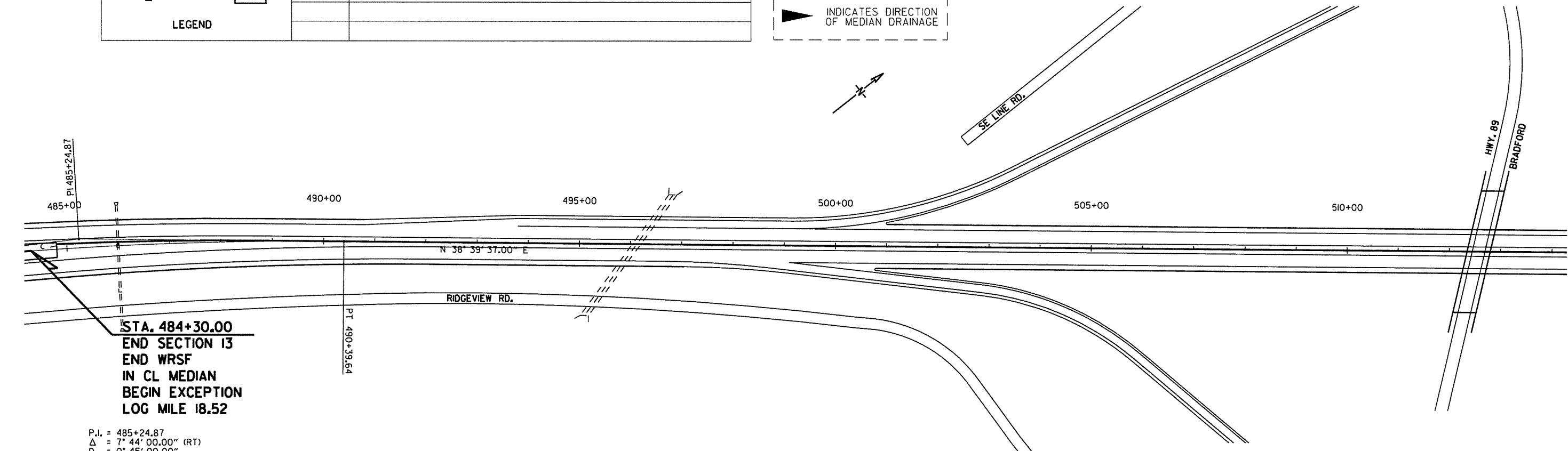


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012195	14
<b>TEMPORARY EROSION CONTROL DETAILS</b>								



LEGEND		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



STA. 484+30.00  
 END SECTION 13  
 END WRSF  
 IN CL MEDIAN  
 BEGIN EXCEPTION  
 LOG MILE 18.52

P.I. = 485+24.87  
 Δ = 7° 44' 00.00" (RT)  
 D = 0° 45' 00.00"  
 T = 516.34  
 R = 1,031.11  
 R = 7,639.43

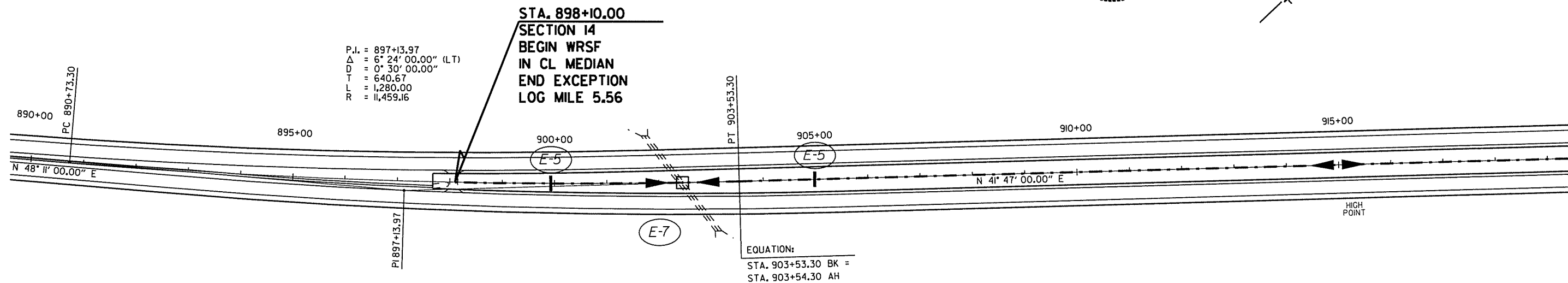
**TEMPORARY EROSION CONTROL DETAILS**  
 STA. 455+00 - STA. 514+00

7/11/2014 11:59:27 AM P:\10003809\CADD\SHEETS\HWY 67\HWY67\_EC-9.dwg



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							012195	15	96

TEMPORARY EROSION CONTROL DETAILS



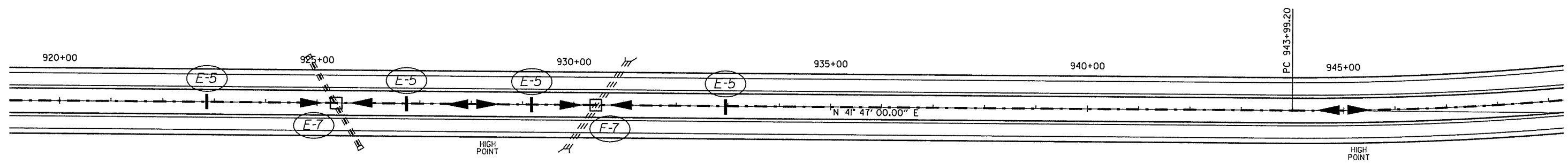
P.I. = 897+13.97  
 $\Delta$  = 6° 24' 00.00" (LT)  
 D = 0° 30' 00.00"  
 T = 640.67  
 L = 1,280.00  
 R = 11,459.16

EQUATION:  
 STA. 903+53.30 BK =  
 STA. 903+54.30 AH

		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
 STA. 890+00 - STA. 949+00

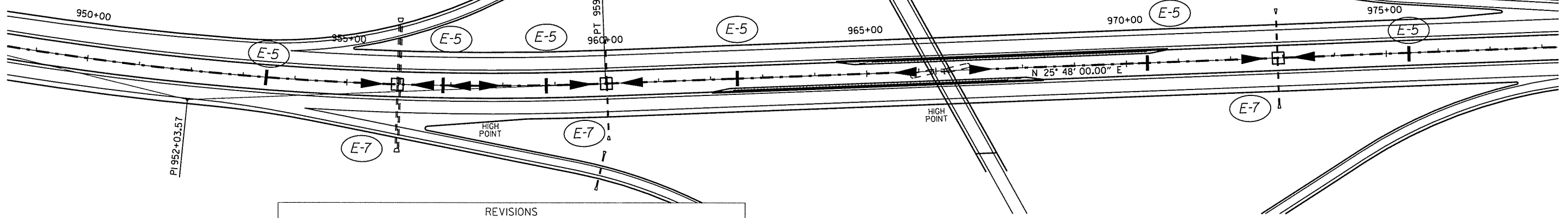
7/11/2014 11:52:27 AM P:\100038105\CADD\CEI\SHEETS\HWY 67\HWY67\_EC-11.cqt



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	16	96	

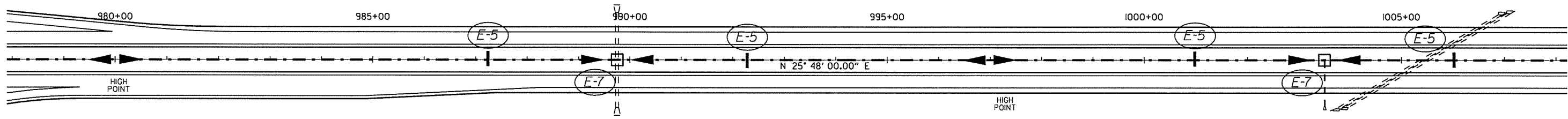
TEMPORARY EROSION CONTROL DETAILS

P.I. = 952+03.57  
 $\Delta$  = 15° 59' 00.00" (LT)  
 $D$  = 1° 00' 00.08"  
 $T$  = 804.37  
 $L$  = 1,598.30  
 $R$  = 5,729.46



REVISIONS		DATE OF REVISION	REVISION
SAND BAG DITCH CHECK	DROP INLET SILT FENCE		
LEGEND			

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
 STA. 949+00 - STA. 1008+00

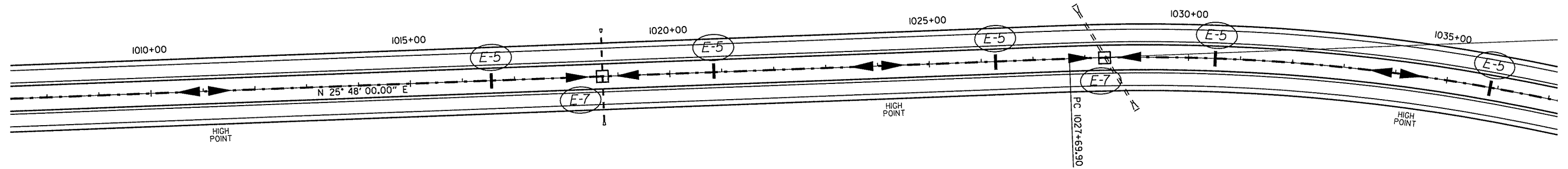
7/11/2014 11:52:28 AM P:\00038109\CADD\CES\SHEETS\HWY 67\HWY67\_EC-12.dgn





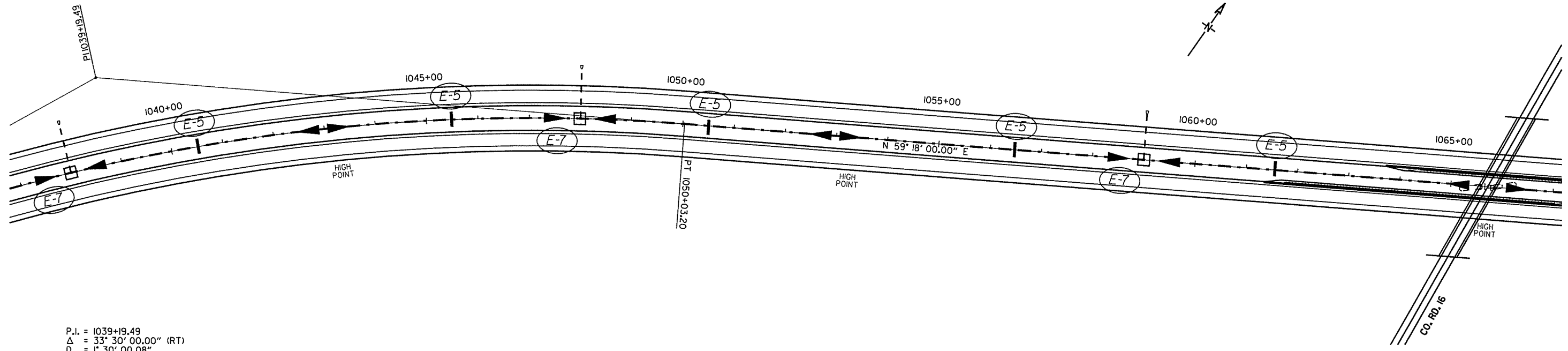
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	17	96	

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK <b>E-5</b> 	DROP INLET SILT FENCE <b>E-7</b> □	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



P.I. = 1039+19.49  
 $\Delta$  = 33° 30' 00.00" (RT)  
 D = 1° 30' 00.08"  
 T = 1,149.59  
 L = 2,233.30  
 R = 3,819.66

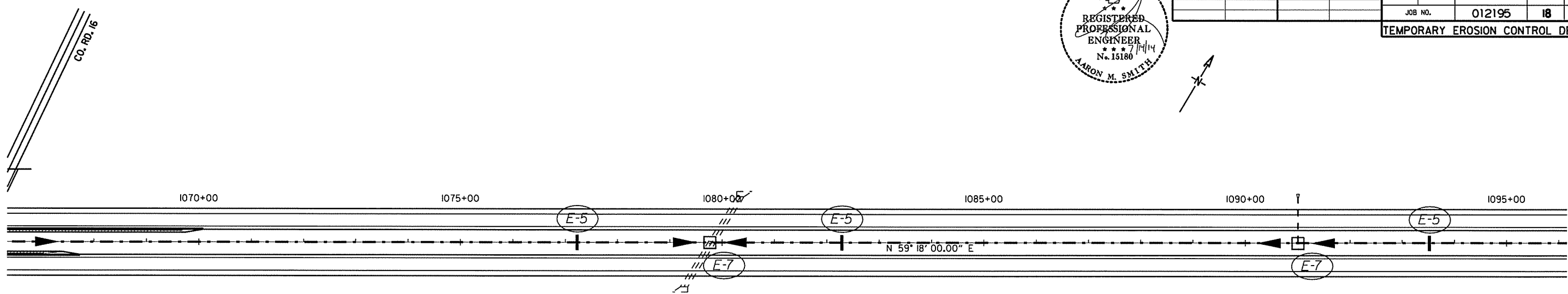
TEMPORARY EROSION CONTROL DETAILS  
 STA. 1008+00 - STA. 1067+00

7/17/2014 11:52:28 AM P:\100038109\CADD\SHEETS\HWY 67\HWY67\_EC-13.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	18	96	

TEMPORARY EROSION CONTROL DETAILS

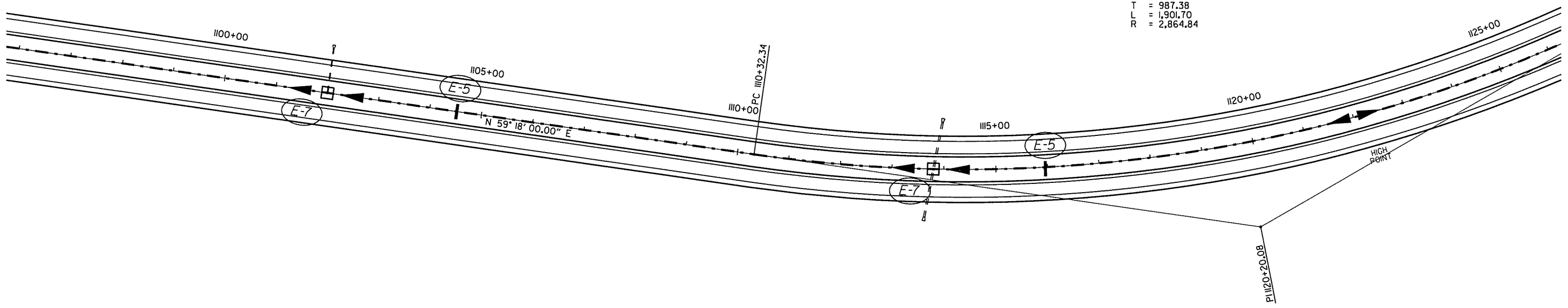


		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

P.I. = 1120+19.72  
 $\Delta$  = 38° 02' 00.00" (LT)  
 D = 1° 59' 59.87"  
 T = 987.38  
 L = 1,901.70  
 R = 2,864.84



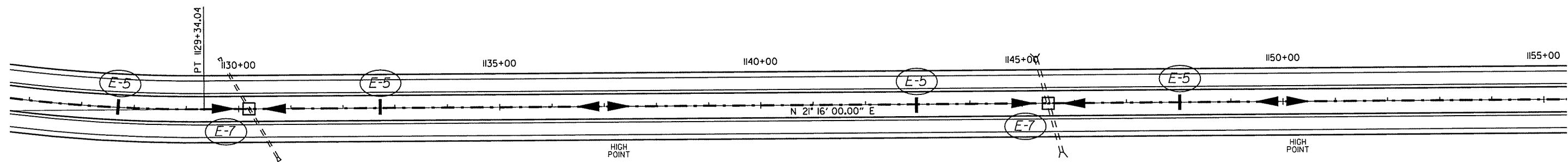
TEMPORARY EROSION CONTROL DETAILS  
 STA. 1067+00 - STA. 1126+00

17/11/2014 11:52:28 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-14.dgn



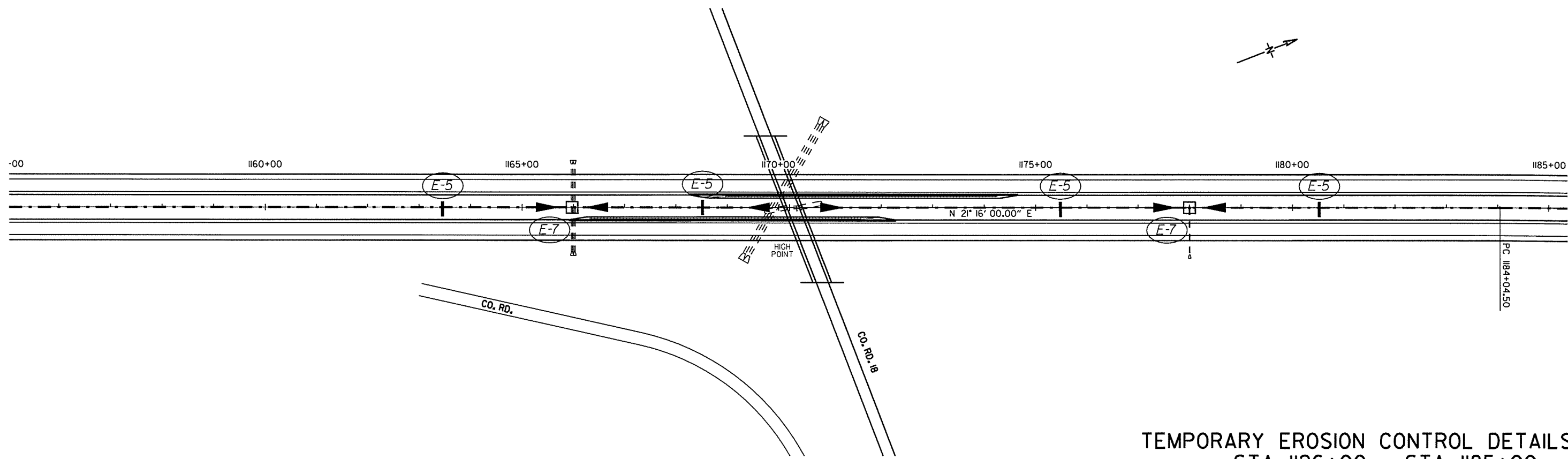
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
							JOB NO.	012195
							19	96

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE

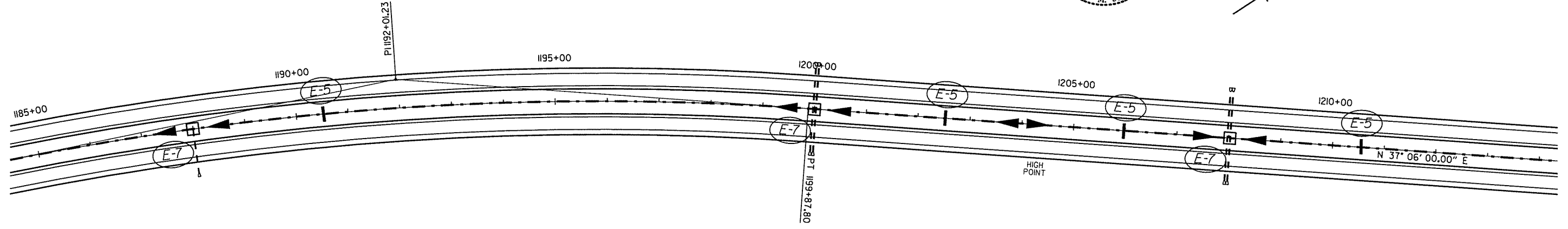


TEMPORARY EROSION CONTROL DETAILS  
STA. 1126+00 - STA. 1185+00

7/11/2014 11:52:29 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-15.dgn



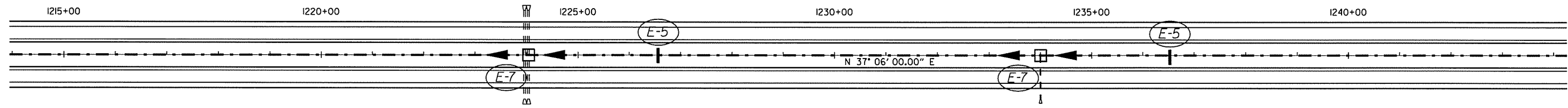
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012195	20 96
TEMPORARY EROSION CONTROL DETAILS								



P.I. = 1192+01.23  
 $\Delta$  = 15° 50' 00.00" (RT)  
 D = 1° 00' 00.08"  
 T = 796.73  
 L = 1,583.30  
 R = 5,729.46

		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
LEGEND			

INDICATES DIRECTION OF MEDIAN DRAINAGE



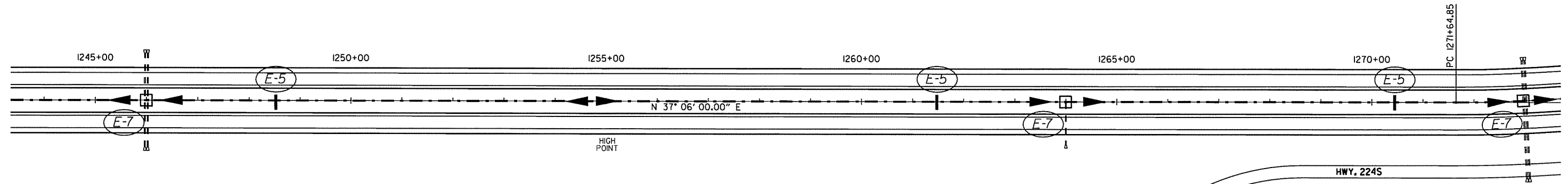
TEMPORARY EROSION CONTROL DETAILS  
 STA. 1185+00 - STA. 1244+00

7/11/2014 11:51:23 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-16.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							21	96

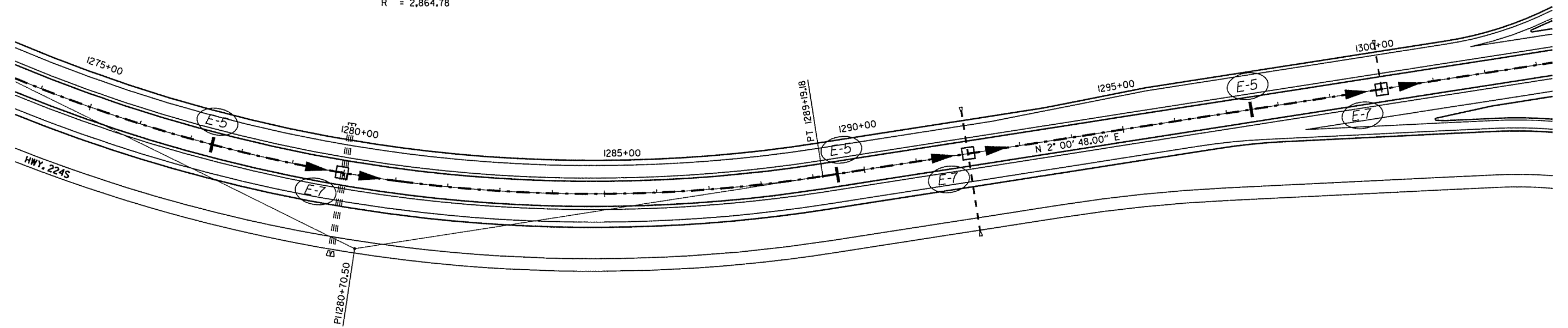
TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
	SAND BAG DITCH CHECK	DATE OF REVISION	REVISION
	DROP INLET SILT FENCE		

INDICATES DIRECTION OF MEDIAN DRAINAGE

P.I. = 1280+70.50  
 $\Delta = 35^\circ 05' 12.00''$  (LT)  
 $D = 2^\circ 00' 00.01''$   
 $T = 905.65$   
 $L = 1,754.33$   
 $R = 2,864.78$



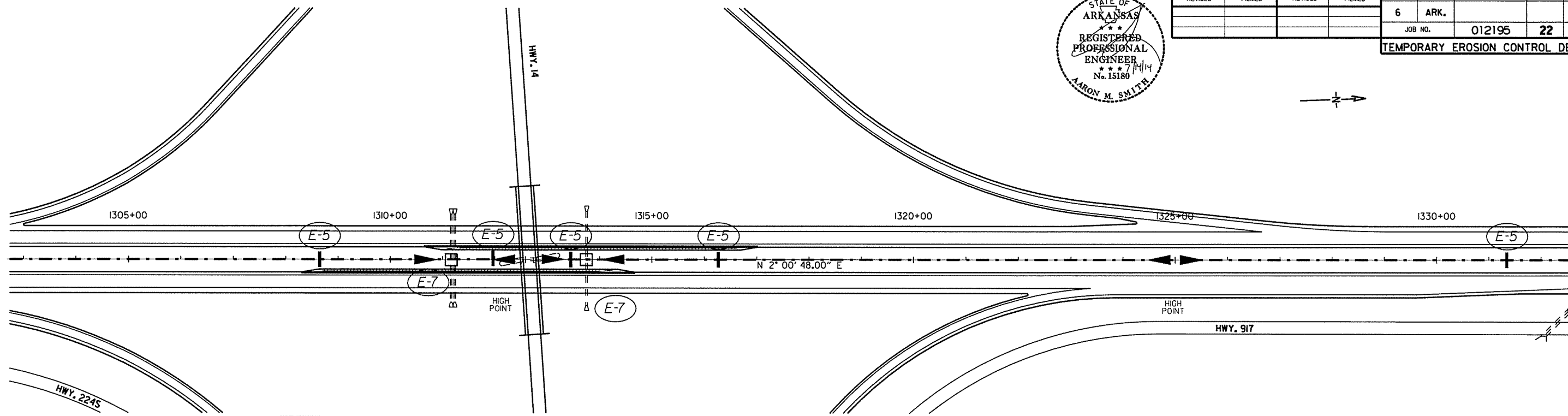
TEMPORARY EROSION CONTROL DETAILS  
 STA. 1244+00 - STA. 1303+00

7/11/2014 11:29 AM P:\0003809\CADD\SHEETS\HWY\_67\HWY67\_EC-17.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012195	22	96

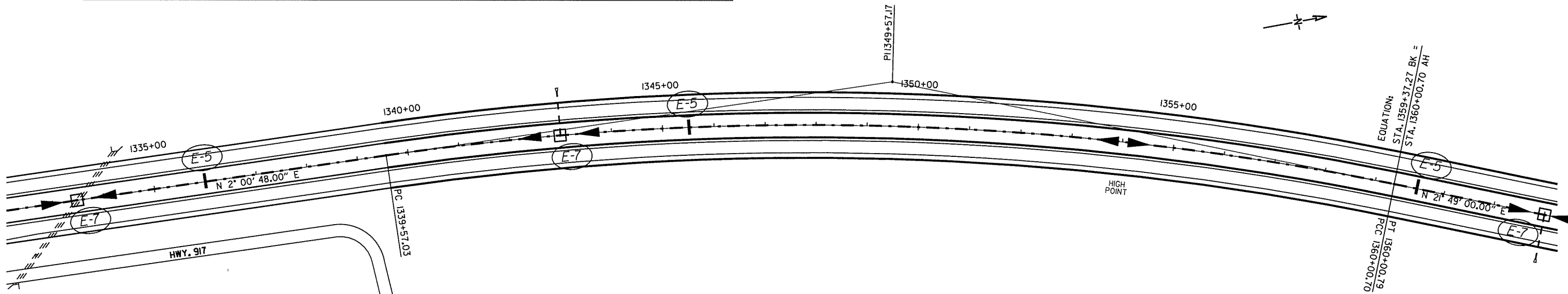
TEMPORARY EROSION CONTROL DETAILS



REVISIONS		DATE OF REVISION	REVISION
SAND BAG DITCH CHECK	DROP INLET SILT FENCE		

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



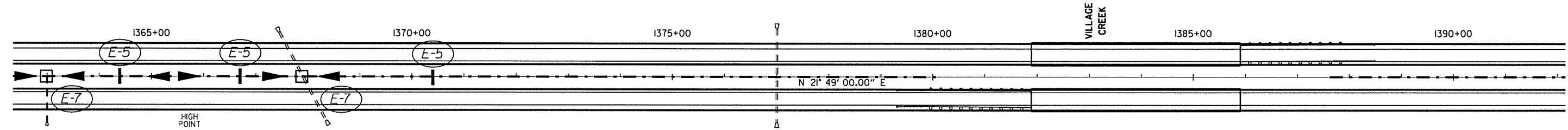
P.I. = 1349+57.17  
 $\Delta$  = 19° 48' 12.00" (RT)  
 D = 1' 00' 00.01"  
 T = 1,000.14  
 L = 1,980.33  
 R = 5,729.57

TEMPORARY EROSION CONTROL DETAILS  
 STA. 1303+00 - STA. 1363+00

7/17/2014 11:53:30 AM P:\00038103\CADD\SHEETS\HWY 67\HWY67 EC-18.dgn

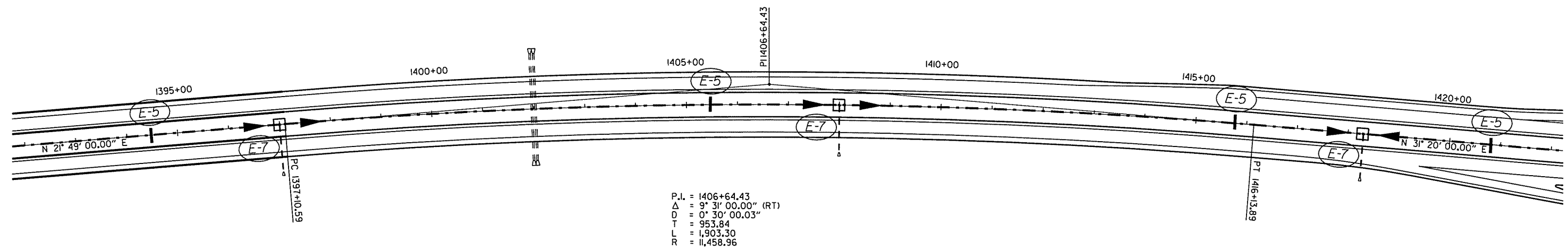


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS		
				6	ARK.					
							JOB NO.	012195	23	96
TEMPORARY EROSION CONTROL DETAILS										



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



P.I. = 1406+64.43  
 $\Delta$  = 9° 31' 00.00" (RT)  
 D = 0° 30' 00.03"  
 T = 953.84  
 L = 1,903.30  
 R = 11,458.96

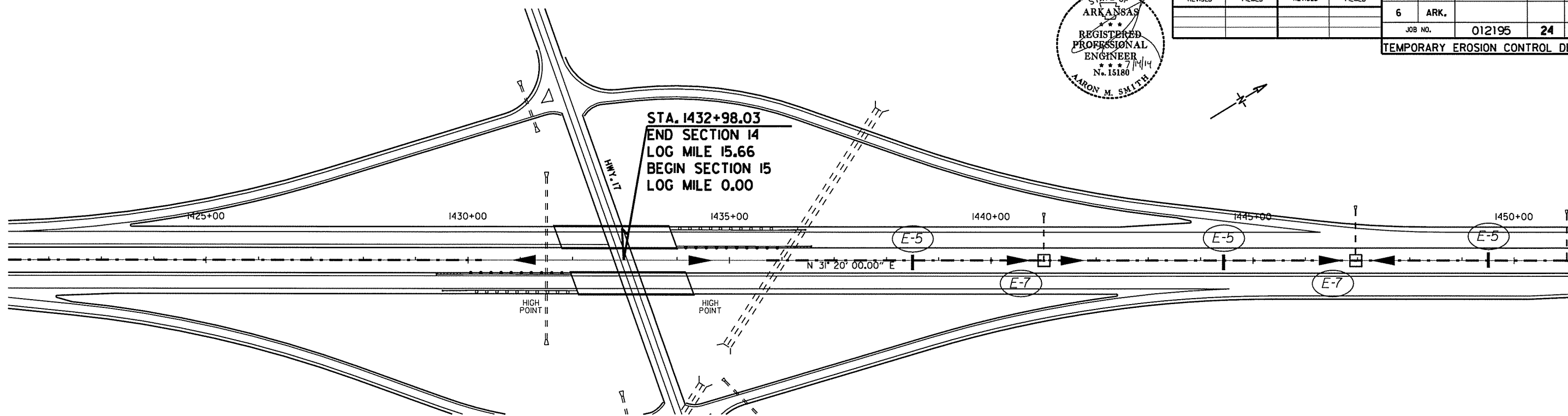
TEMPORARY EROSION CONTROL DETAILS  
 STA. 1363+00 - STA. 1422+00

7/17/2014 11:55:30 AM P:\00038109\CADD\CEI\SHEETS\HWY 67\HWY67\_EC-19.dwg



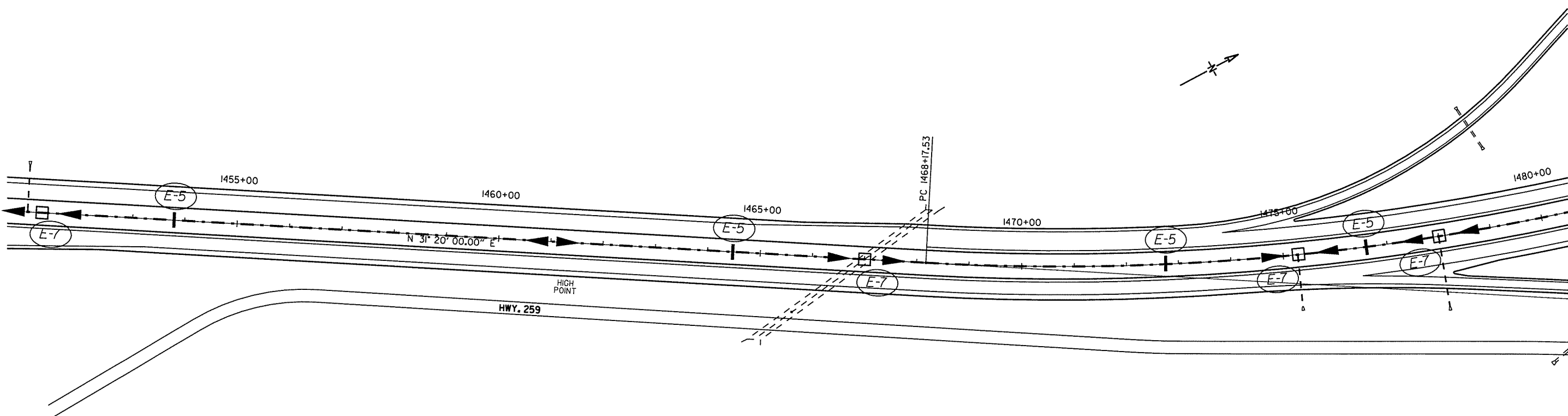
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 012195	24	96

TEMPORARY EROSION CONTROL DETAILS



REVISIONS		DATE OF REVISION	REVISION
SAND BAG DITCH CHECK <b>E-5</b> 	DROP INLET SILT FENCE <b>E-7</b> □		

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
STA. 1422+00 - STA. 1480+00

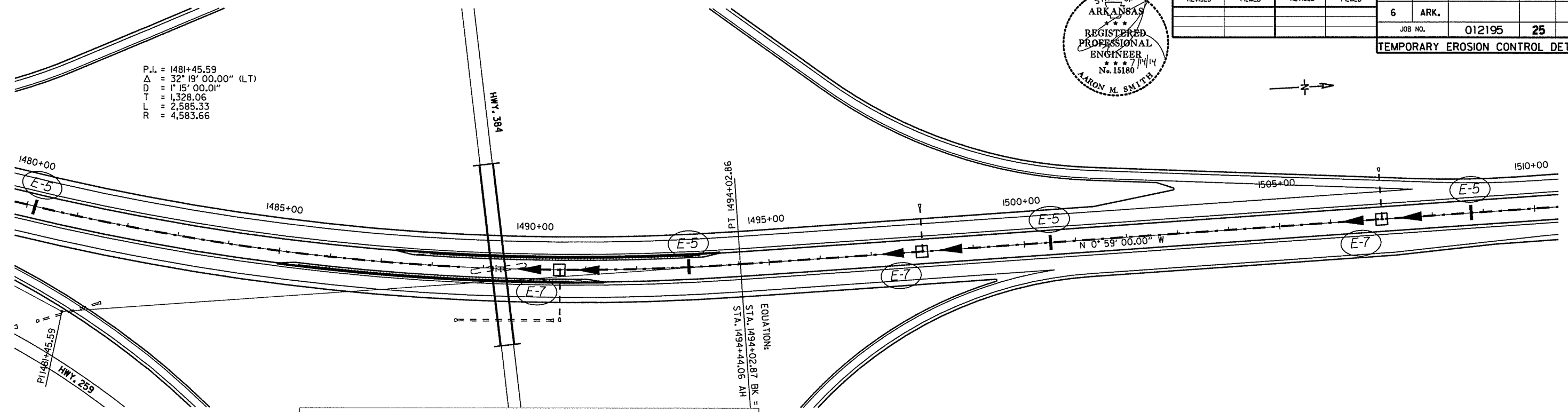
7/11/2014 11:53:30 AM P:\00038109\CAADD\SHEETS\HWY\_67\HWY67\_EC-20.dgn





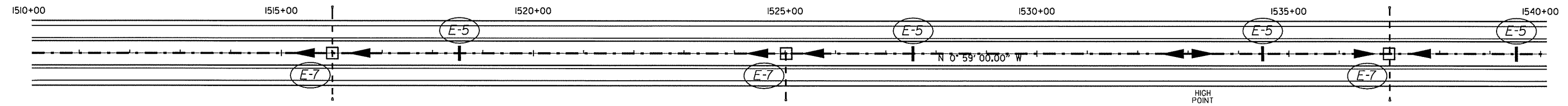
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012195	25
						TEMPORARY EROSION CONTROL DETAILS		

P.I. = 1481+45.59  
 $\Delta$  = 32° 19' 00.00" (LT)  
 D = 1' 15" 00.01"  
 T = 1,328.06  
 L = 2,585.33  
 R = 4,583.66



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



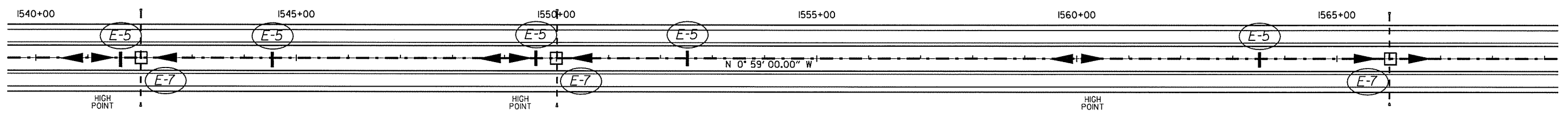
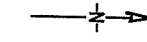
TEMPORARY EROSION CONTROL DETAILS  
 STA. 1480+00 - STA. 1540+00

7/11/2014 11:51:31 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-21.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 012195	26	96

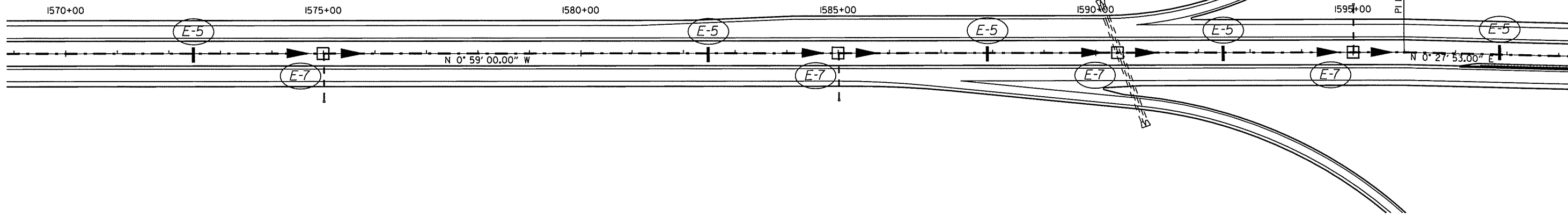
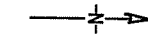
TEMPORARY EROSION CONTROL DETAILS



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

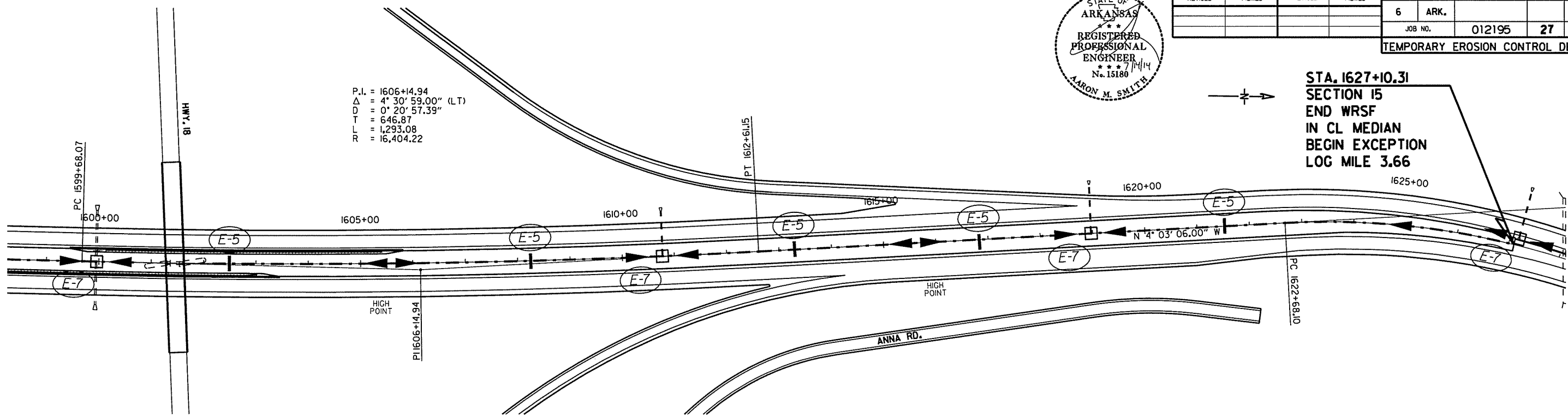


TEMPORARY EROSION CONTROL DETAILS  
STA. 1540+00 - STA. 1599+00

7/17/2014 11:09:31 AM P:\100038109\CAADD\CSHSHEETS\HWY 67\HWY67\_EC-22.dwg



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012195	27	96
TEMPORARY EROSION CONTROL DETAILS								



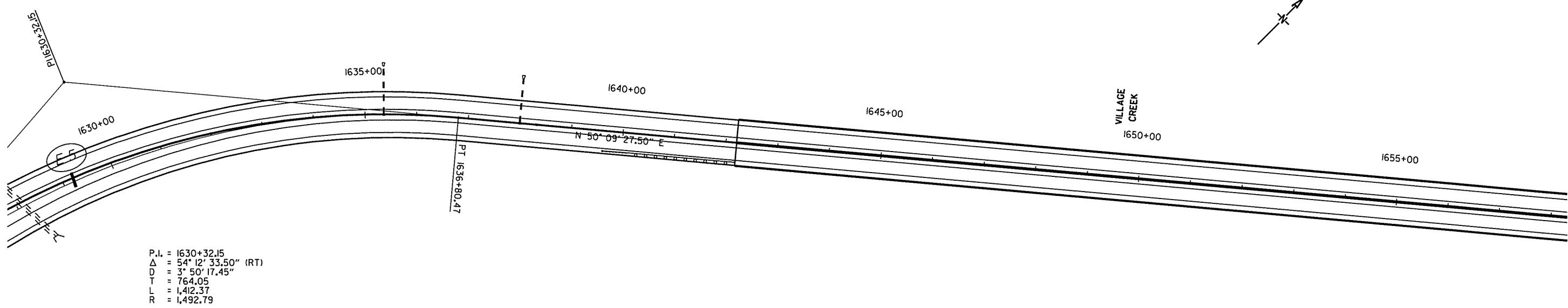
P.I. = 1606+14.94  
 $\Delta$  = 4° 30' 59.00" (LT)  
 D = 0° 20' 57.39"  
 T = 646.87  
 L = 1,293.08  
 R = 16,404.22

STA. 1627+10.31  
 SECTION 15  
 END WRSF  
 IN CL MEDIAN  
 BEGIN EXCEPTION  
 LOG MILE 3.66

REVISIONS		DATE OF REVISION	REVISION
SAND BAG DITCH CHECK	DROP INLET SILT FENCE		

LEGEND

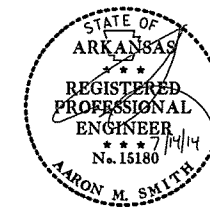
INDICATES DIRECTION OF MEDIAN DRAINAGE



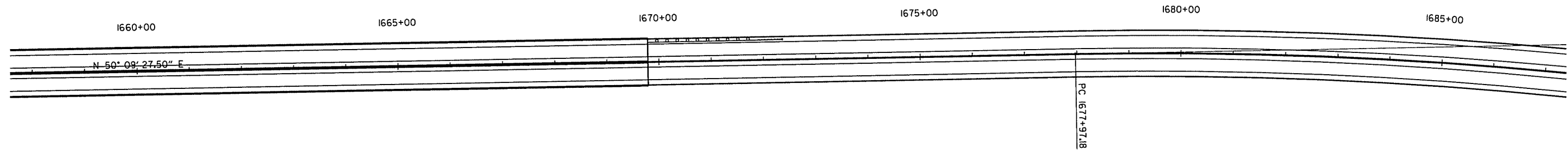
P.I. = 1630+32.15  
 $\Delta$  = 54° 12' 33.50" (RT)  
 D = 3° 50' 17.45"  
 T = 764.05  
 L = 1,412.37  
 R = 1,492.79

TEMPORARY EROSION CONTROL DETAILS  
 STA. 1599+00 - STA. 1658+00

P:\10003809\CAADD\CEI\SHEETS\HWY 67\HWY67\_EC-23.dgn 7/11/2014 11:53:32 AM

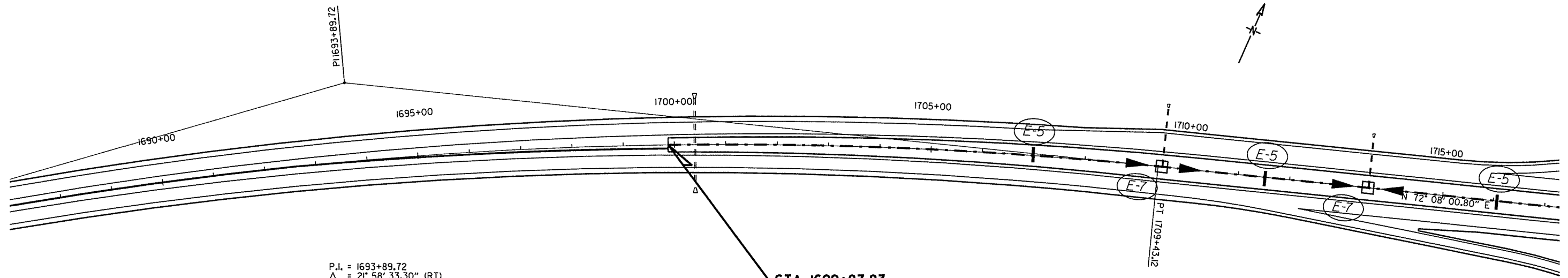


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	28	96
				JOB NO. 012195 28 96				
TEMPORARY EROSION CONTROL DETAILS								



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE

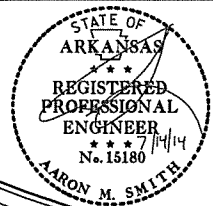


P.I. = 1693+89.72  
 $\Delta$  = 21° 58' 33.30" (RT)  
 D = 0° 41' 54.77"  
 T = 1,592.54  
 L = 3,145.94  
 R = 8,202.12

**STA. 1699+87.83**  
 SECTION 15  
 BEGIN WRSF  
 IN CL MEDIAN  
 END EXCEPTION  
 LOG MILE 5.08

TEMPORARY EROSION CONTROL DETAILS  
 STA. 1658+00 - STA. 1717+00

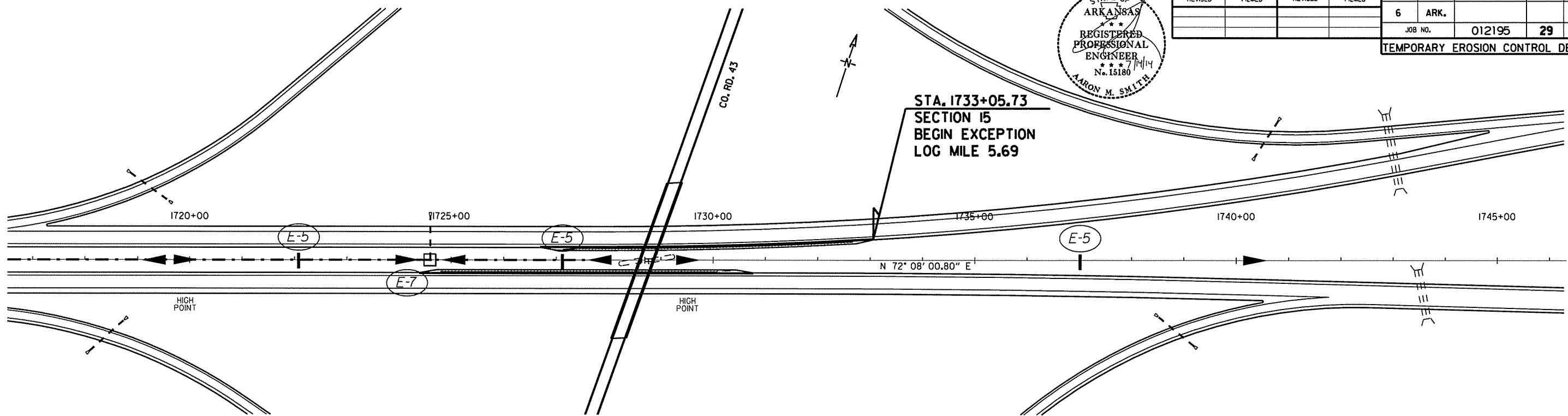
7/11/2014 11:53:32 AM P:\100038109\CADD\CEI SHEETS\HWY 67A\HWY67 EC-24.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							012195	29	96

TEMPORARY EROSION CONTROL DETAILS

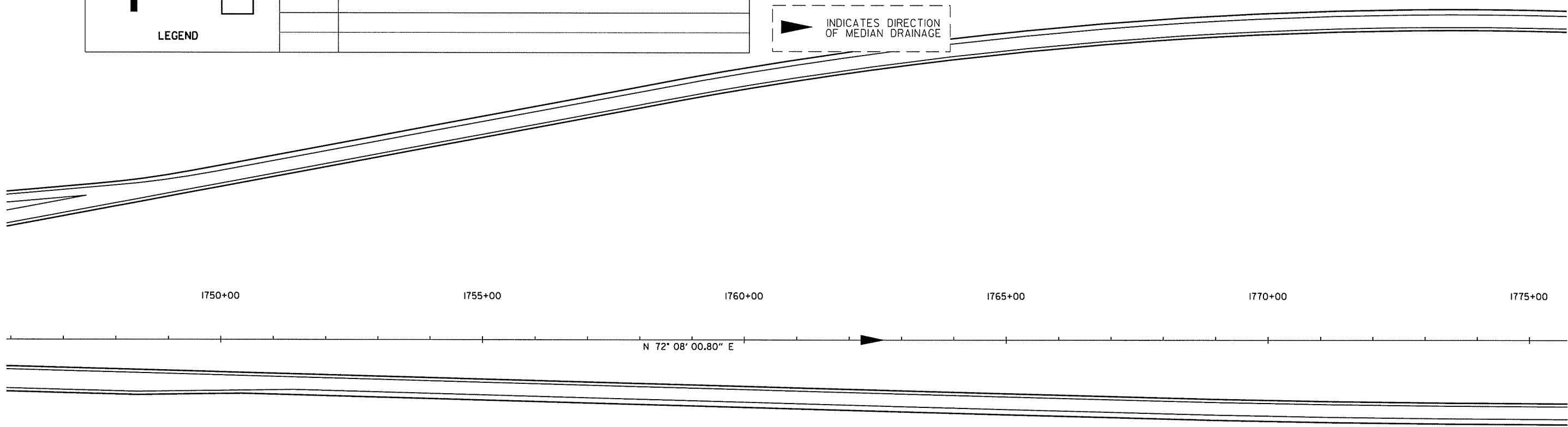
STA. 1733+05.73  
SECTION 15  
BEGIN EXCEPTION  
LOG MILE 5.69



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



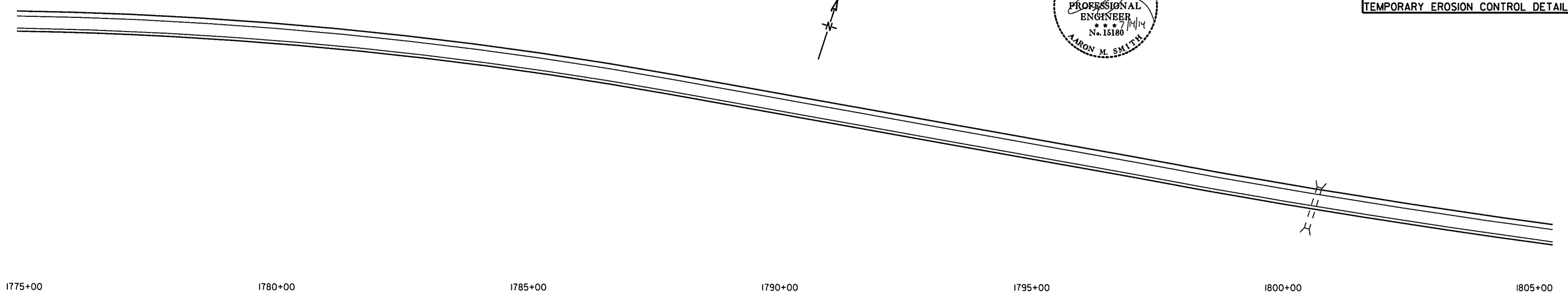
TEMPORARY EROSION CONTROL DETAILS  
STA. 1717+00 - STA. 1775+00

7/11/2014 11:51:32 AM P:\100038109\CADD\SHEETS\HWY\_67\HWY67\_EC-25.dwg





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							30	96

TEMPORARY EROSION CONTROL DETAILS



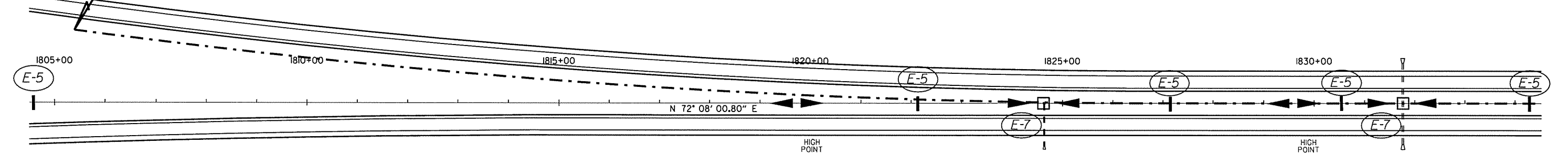
N 72° 08' 00.80" E

REVISIONS		DATE OF REVISION	REVISION
SAND BAG DITCH CHECK	DROP INLET SILT FENCE		
			

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

**STA. 1805+39.48**  
SECTION 15  
BEGIN WRSF  
IN MEDIAN  
END EXCEPTION  
LOG MILE 7.06



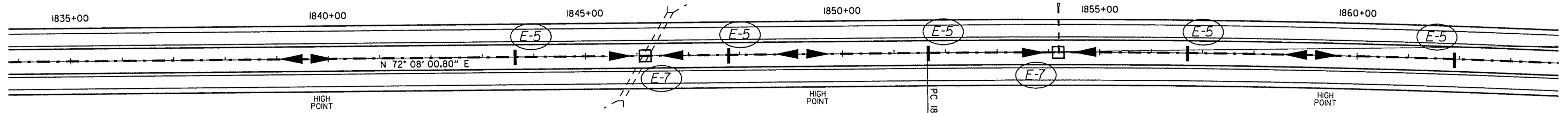
TEMPORARY EROSION CONTROL DETAILS  
STA. 1775+00 - STA. 1834+00

7/11/2014 11:53:33 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-26.dgn



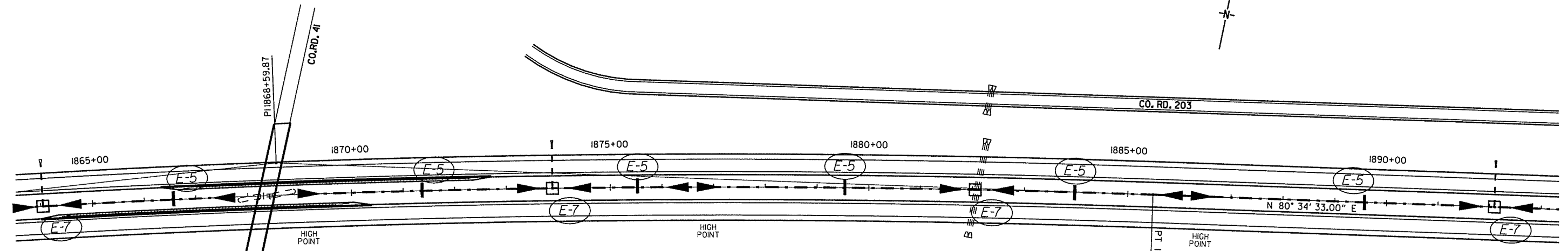
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195		31	96

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK <b>E-5</b> 	DROP INLET SILT FENCE <b>E-7</b> □	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



P.J.	= 1868+59.87
Δ	= 8° 26' 32.20" (RT)
D	= 0° 14' 58.14"
T	= 1,695.03
L	= 3,383.92
R	= 22,965.88

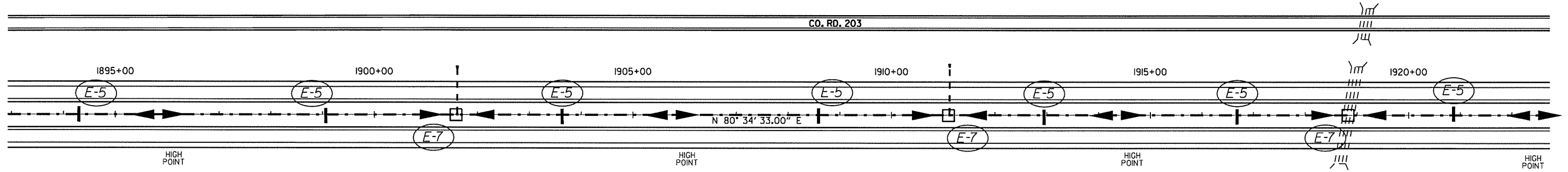
TEMPORARY EROSION CONTROL DETAILS  
STA. 1834+00 - STA. 1893+00

7/11/2014 11:59:33 AM P:\00038109\CADD\CELSHETS\HWY 67\HWY67\_EC-27.dwg



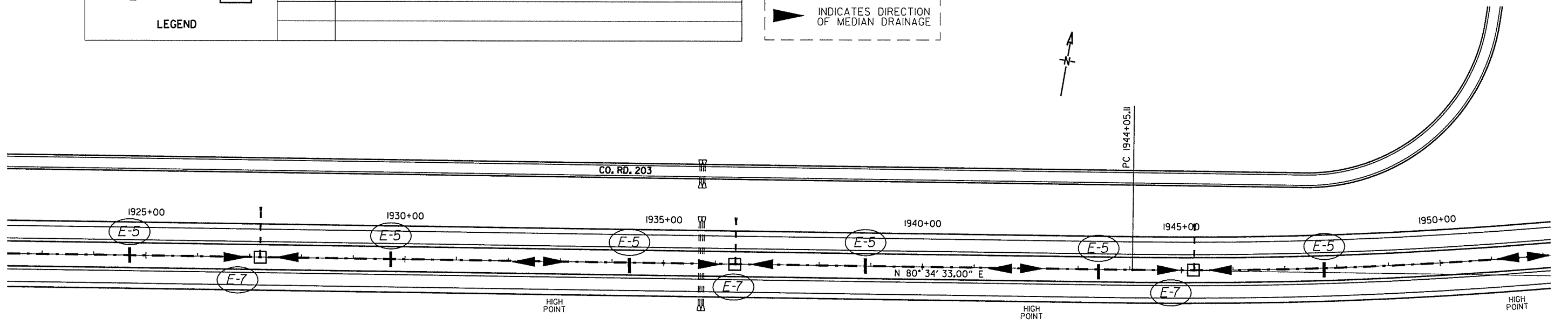
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							32	96

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK <b>E-5</b> 	DROP INLET SILT FENCE <b>E-7</b> □	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



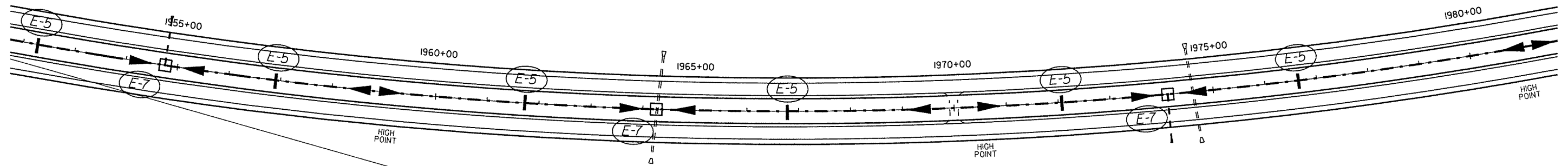
TEMPORARY EROSION CONTROL DETAILS  
STA. 1893+00 - STA. 1952+00

7/17/2014 11:59:33 AM P:\100038109\CADD\SHEETS\HWY 67\HWY67\_EC-28.dgn





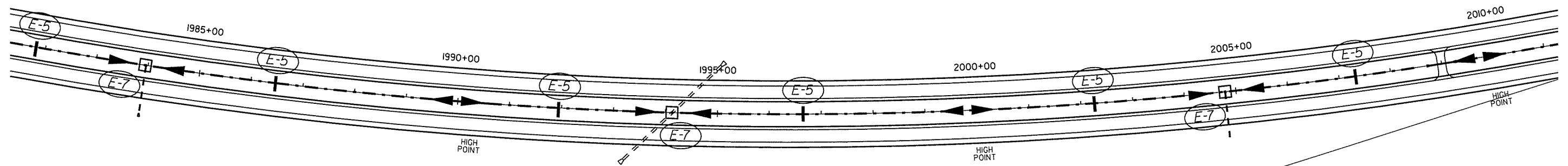
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
							JOB NO. 012195	33	96
TEMPORARY EROSION CONTROL DETAILS									



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
(E-5)	(E-7)		
	□		
LEGEND			

▲ INDICATES DIRECTION OF MEDIAN DRAINAGE

P.I. = 1985+98.73  
 $\Delta$  = 54° 09' 36.50" (LT)  
 D = 0° 41' 54.78"  
 T = 4,193.63  
 L = 7,753.22  
 R = 8,202.10



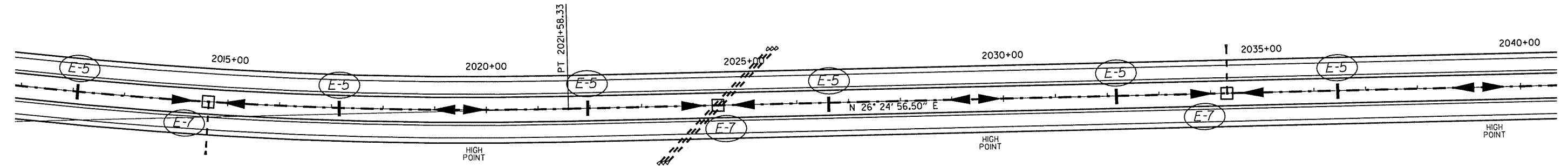
TEMPORARY EROSION CONTROL DETAILS  
 STA. 1952+00 - STA. 2011+00

7/11/2014 11:53:34 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-25.dwg



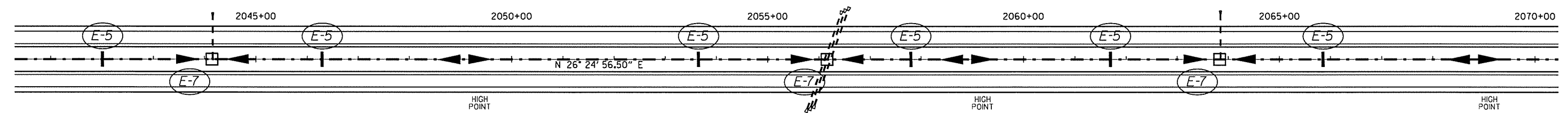
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							012195	34	96

TEMPORARY EROSION CONTROL DETAILS



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
LEGEND			

INDICATES DIRECTION OF MEDIAN DRAINAGE

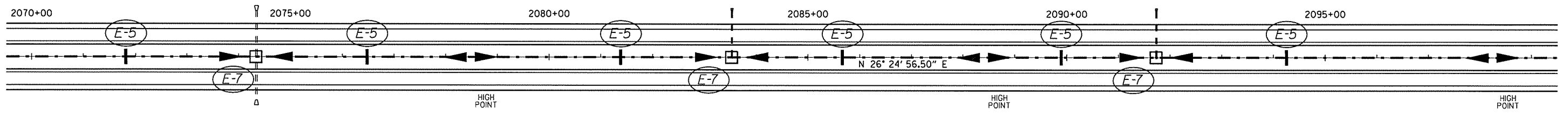
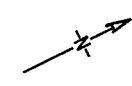


TEMPORARY EROSION CONTROL DETAILS  
STA. 2011+00 - STA. 2070+00

7/11/2014 11:53:34 AM P:\00038109\CA00\CEI\SHEETS\HWY 67\HWY67\_EC-30.dgn

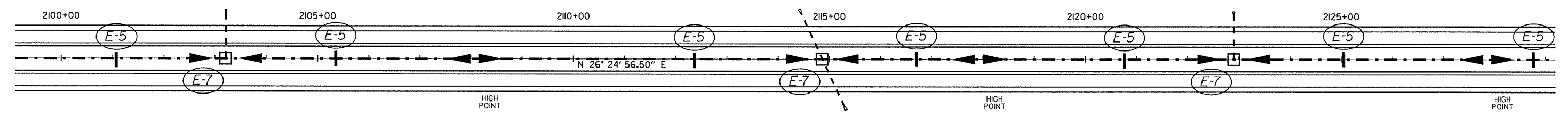
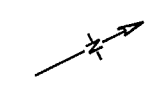


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	35	96
				JOB NO.		012195	35	96
TEMPORARY EROSION CONTROL DETAILS								



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
E-5	E-7		
	□		
LEGEND			

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
STA. 2070+00 - STA. 2129+00

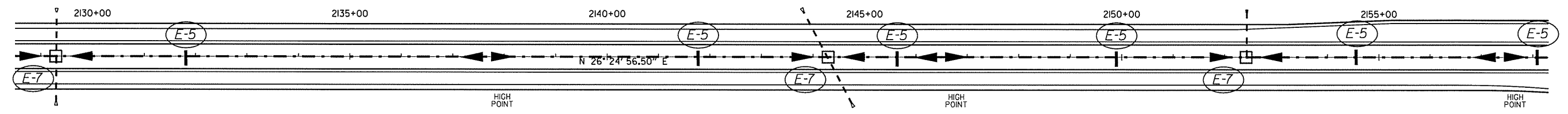
7/11/2014 11:51:34 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-31.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
							JOB NO. 012195	36	96

TEMPORARY EROSION CONTROL DETAILS

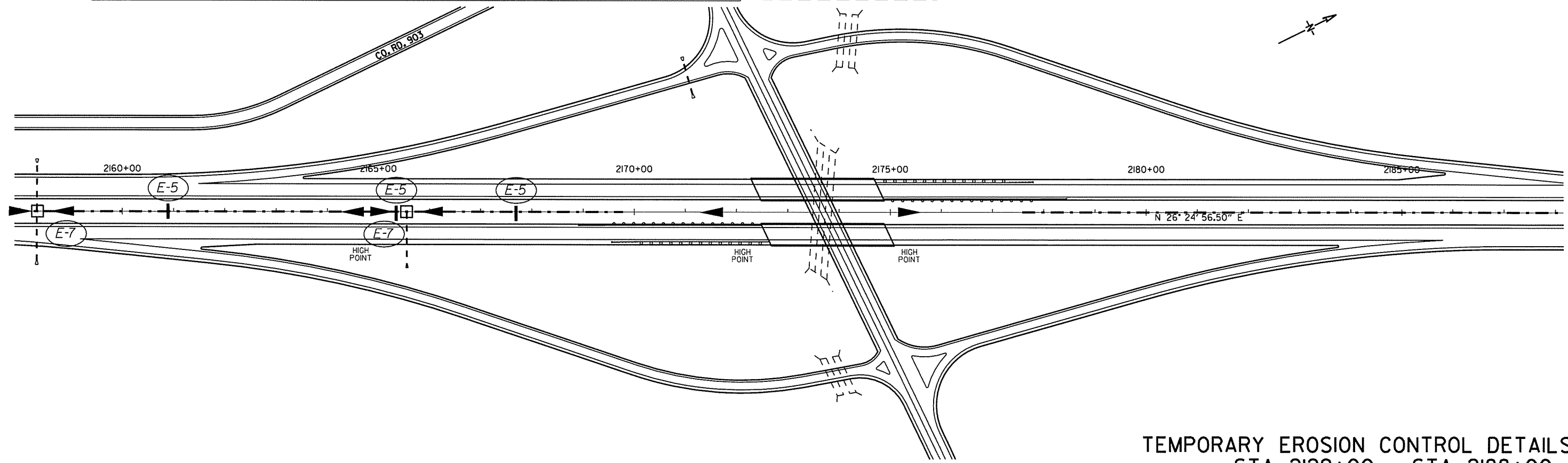
CO. RD. 903



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



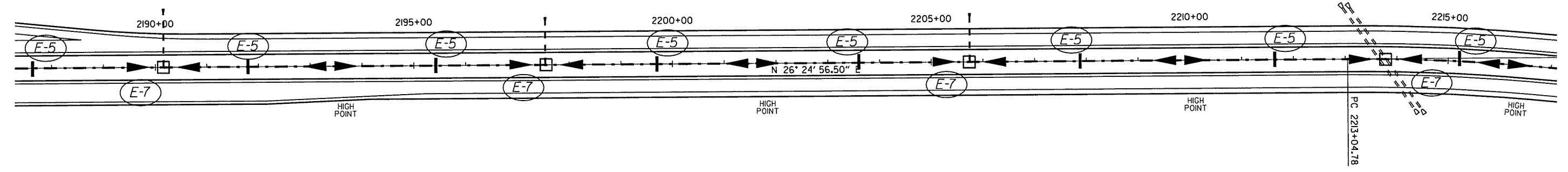
TEMPORARY EROSION CONTROL DETAILS  
STA. 2129+00 - STA. 2188+00

7/11/2014 11:59:35 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-32.dwg



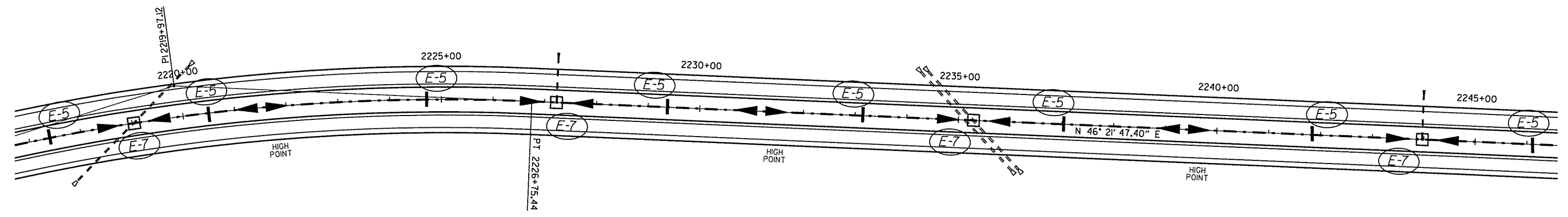
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							012195	37	96

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



P.I. = 2219+97.12  
 $\Delta$  = 19° 56' 50.90" (RT)  
 D = 1' 27' 19.12"  
 T = 692.34  
 L = 1,370.67  
 R = 3,937.01

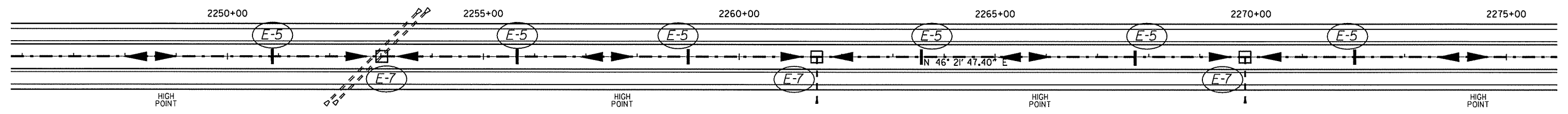
TEMPORARY EROSION CONTROL DETAILS  
 STA. 2188+00 - STA. 2246+00

7/11/2014 11:00:38 AM P:\100038109\CADD\GEI\SHEETS\HWY 67\HWY67\_EC-33.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195		38	96

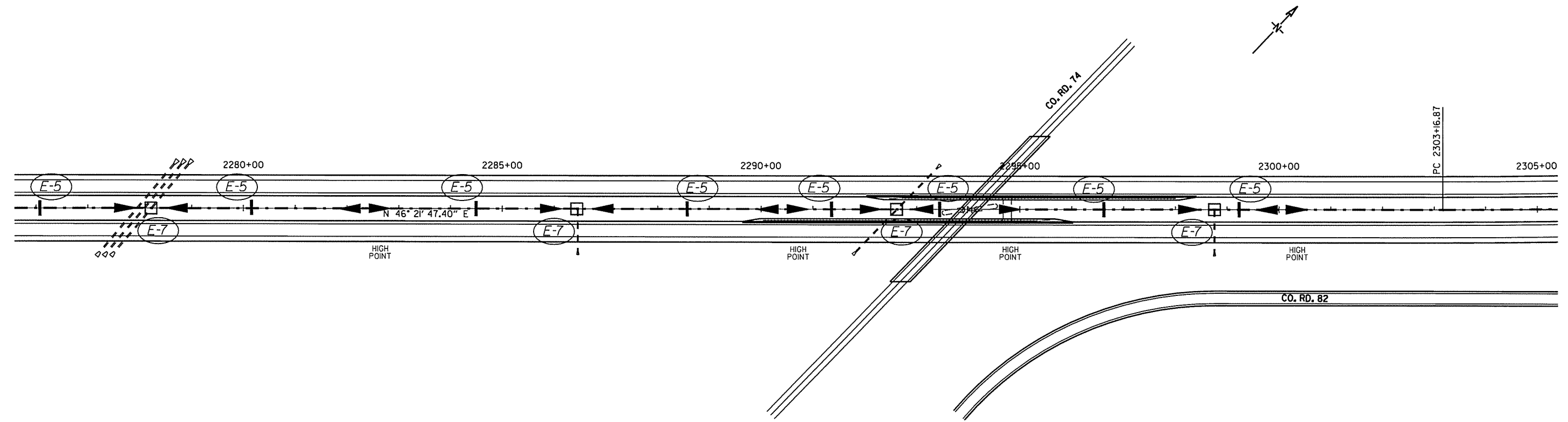
TEMPORARY EROSION CONTROL DETAILS



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
STA. 2246+00 - STA. 2305+00

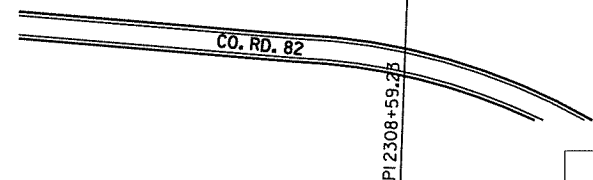
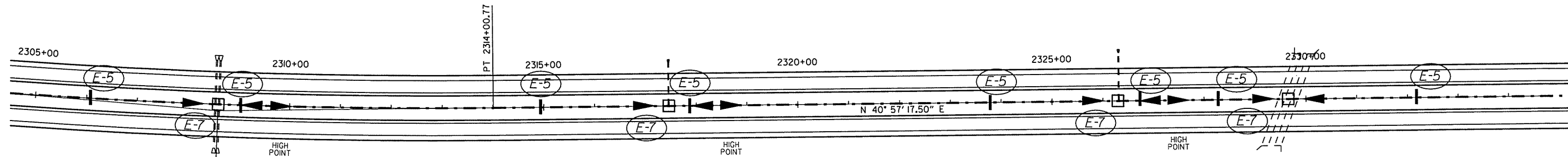
7/11/2014 11:00:35 AM P:\00038109\CADD\SHEETS\HWY 67\HWY67\_EC-34.dwg



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							39	96

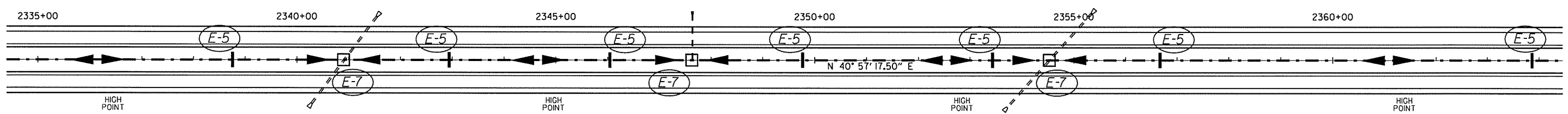
TEMPORARY EROSION CONTROL DETAILS

P.I. = 2308+59.23  
 $\Delta$  = 5° 24' 29.90" (LT)  
 $D$  = 0° 29' 56.28"  
 $T$  = 542.35  
 $L$  = 1,083.90  
 $R$  = 11,482.87



REVISIONS		DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE

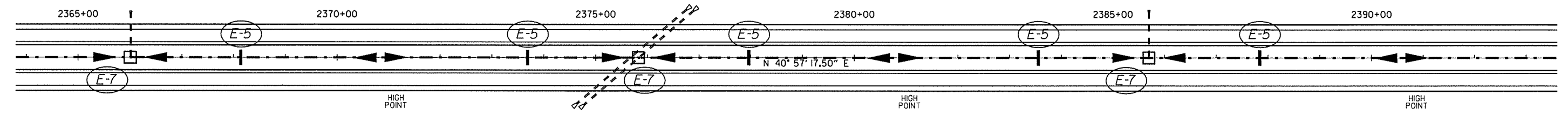


TEMPORARY EROSION CONTROL DETAILS  
 STA. 2305+00 - STA. 2364+00

7/11/2014 11:51:36 AM P:\00038109\CA00\GEI\SHEETS\HWY 67\HWY67\_EC-35.dgn

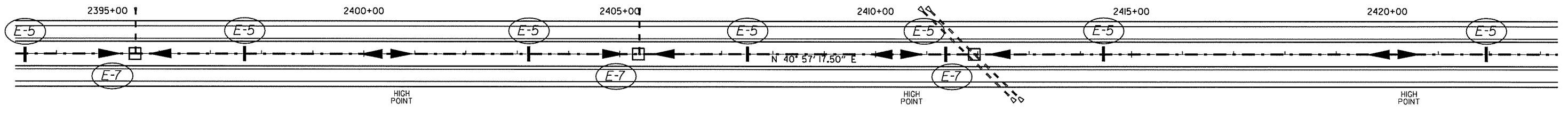


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
							JOB NO.	012195 40 96
TEMPORARY EROSION CONTROL DETAILS								



		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
E-5 	E-7 □		

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
STA. 2364+00 - STA. 2423+00

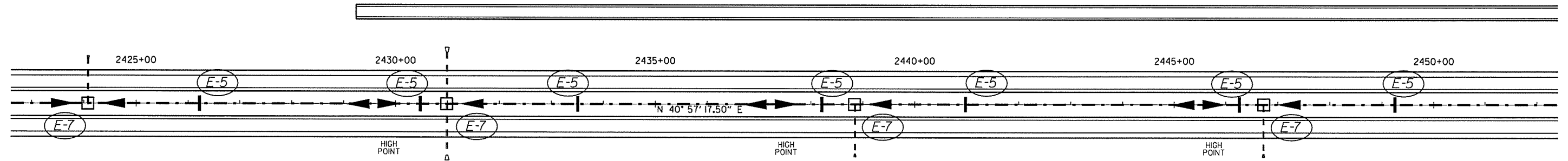
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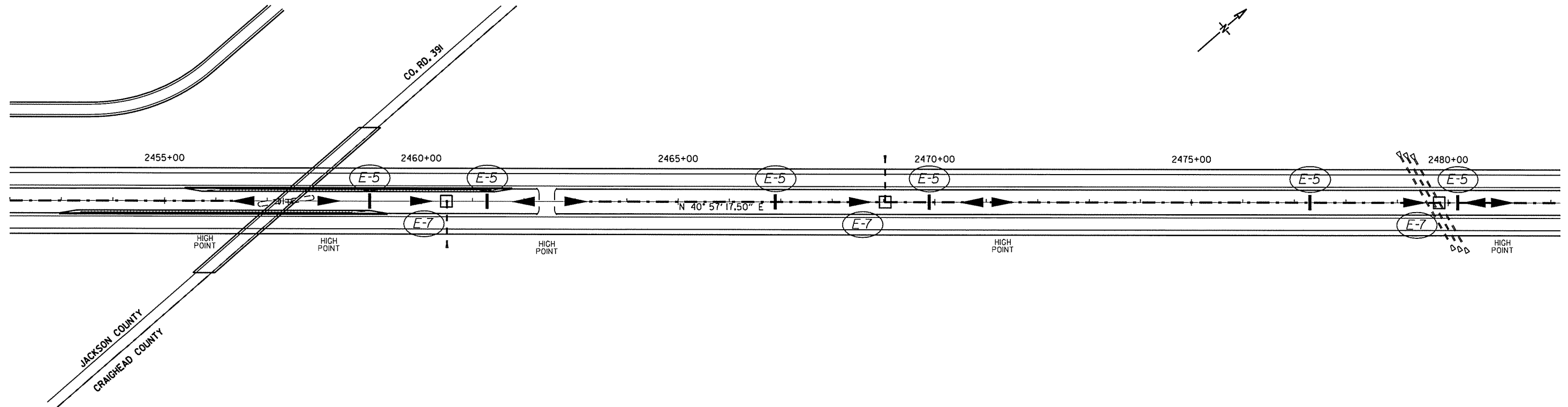
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							41	96

TEMPORARY EROSION CONTROL DETAILS



LEGEND		REVISIONS	
SAND BAG DITCH CHECK <b>E-5</b>	DROP INLET SILT FENCE <b>E-7</b>	DATE OF REVISION	REVISION

INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS  
STA. 2423+00 - STA. 2482+00

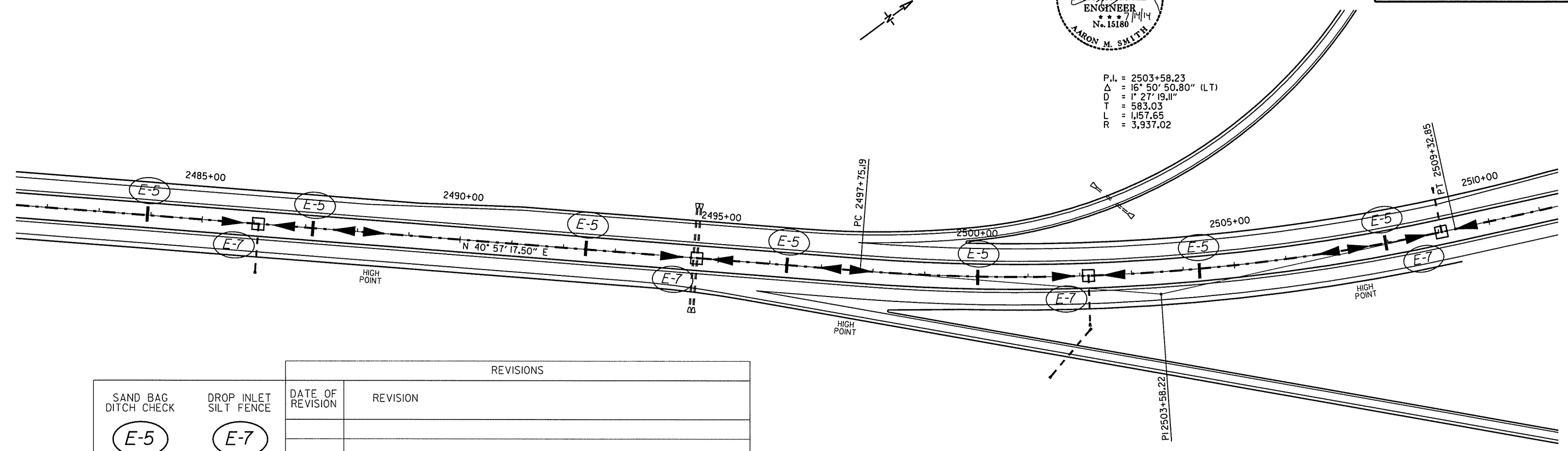
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							42	96

TEMPORARY EROSION CONTROL DETAILS

P.I. = 2503+58.23  
 $\Delta$  = 16° 50' 50.80" (LT)  
 D = 1° 27' 19.11"  
 T = 583.03  
 L = 1,157.65  
 R = 3,937.02

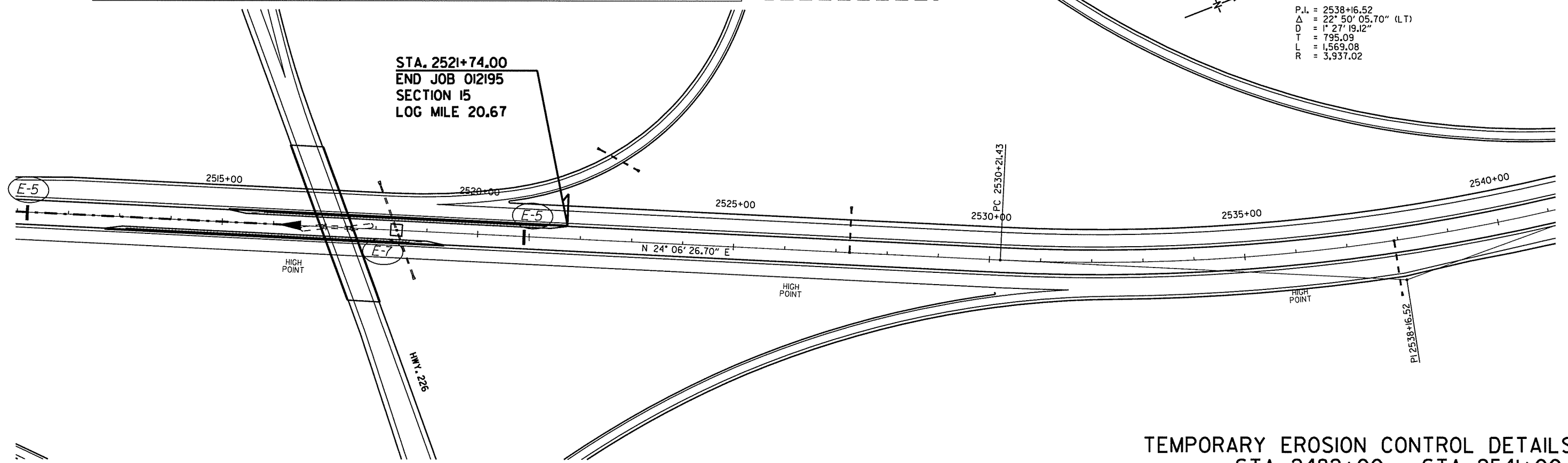


LEGEND		REVISIONS	
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
(E-5)	(E-7) □		

INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 2521+74.00  
 END JOB 012195  
 SECTION 15  
 LOG MILE 20.67

P.I. = 2538+16.52  
 $\Delta$  = 22° 50' 05.70" (LT)  
 D = 1° 27' 19.12"  
 T = 795.09  
 L = 1,569.08  
 R = 3,937.02



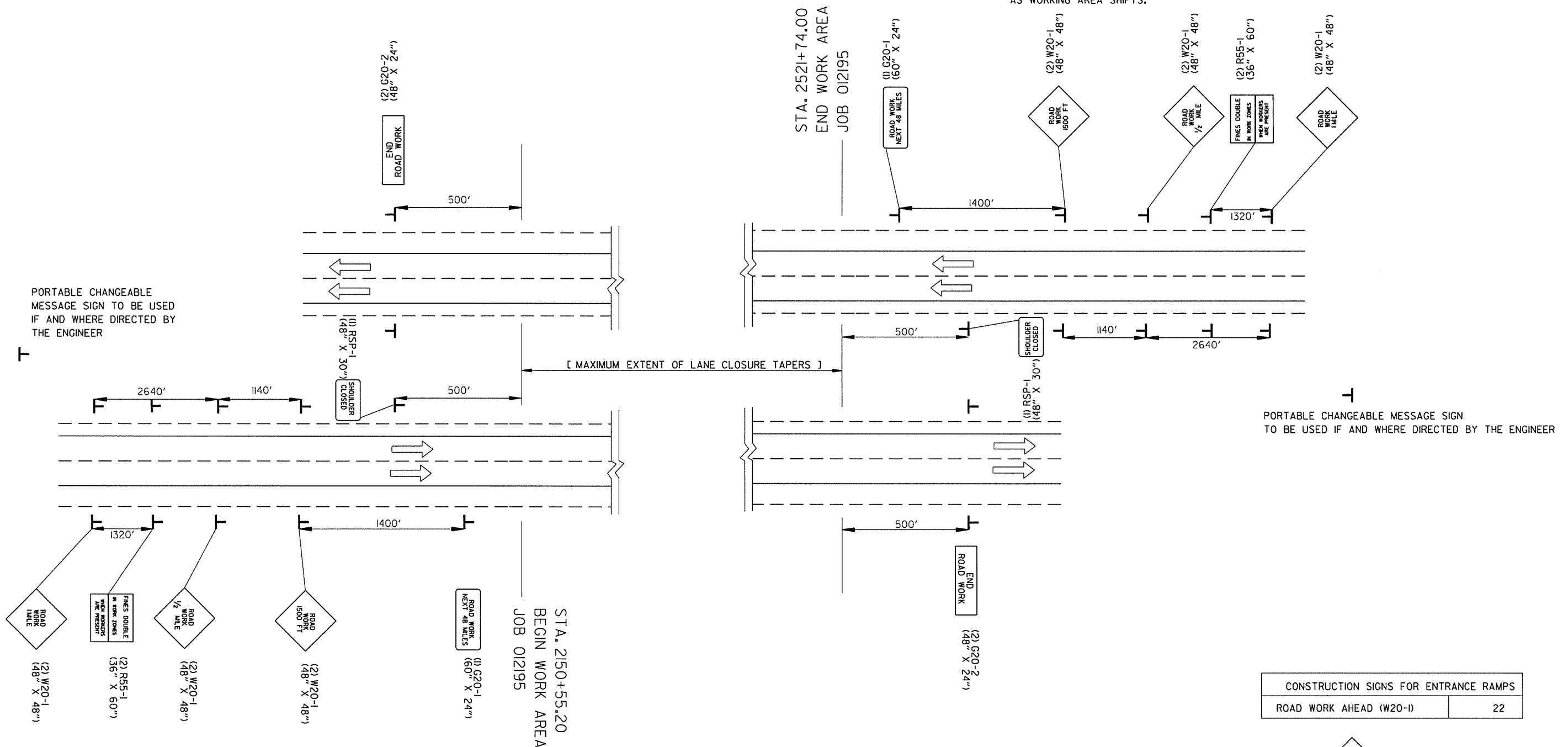
TEMPORARY EROSION CONTROL DETAILS  
 STA. 2482+00 - STA. 2541+00

7/11/2014 11:53:37 AM P:\00038109\CADD\CEI\SHEETS\HWY\_67\HWY67\_EC-38.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012195	43	96
MAINTENANCE OF TRAFFIC								

NOTE :  
 W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS  
 TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS  
 AS WORKING AREA SHIFTS.

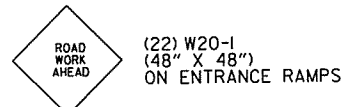


PORTABLE CHANGEABLE MESSAGE SIGN TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

PORTABLE CHANGEABLE MESSAGE SIGN TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

NOTE :  
 W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS  
 TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS  
 AS WORKING AREA SHIFTS.

CONSTRUCTION SIGNS FOR ENTRANCE RAMP	
ROAD WORK AHEAD (W20-1)	22



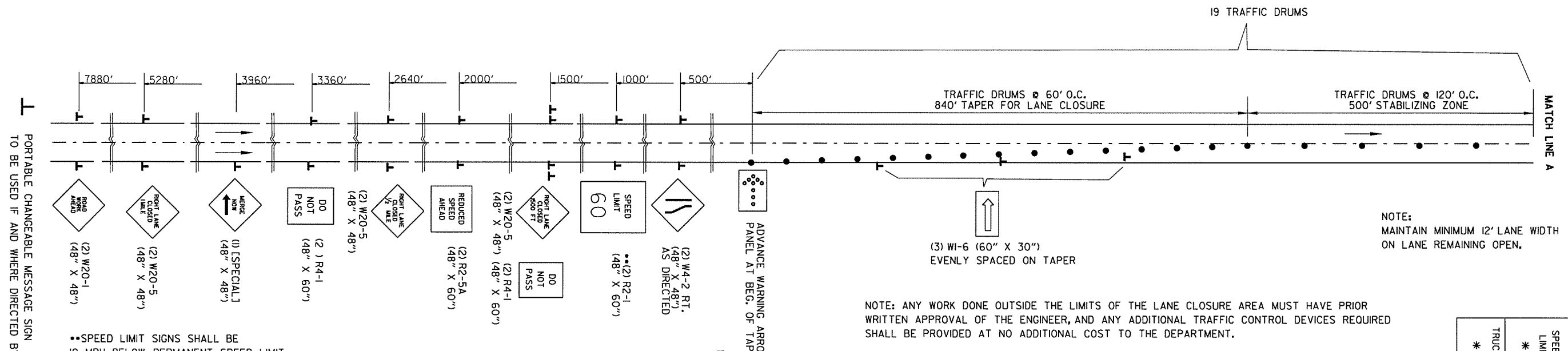
ADVANCE SIGNS AT BEGINNING AND END OF JOB  
 ALL STAGES

MAINTENANCE OF TRAFFIC  
 ADVANCE SIGNS AT JOB ENDS



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							012195	44	96

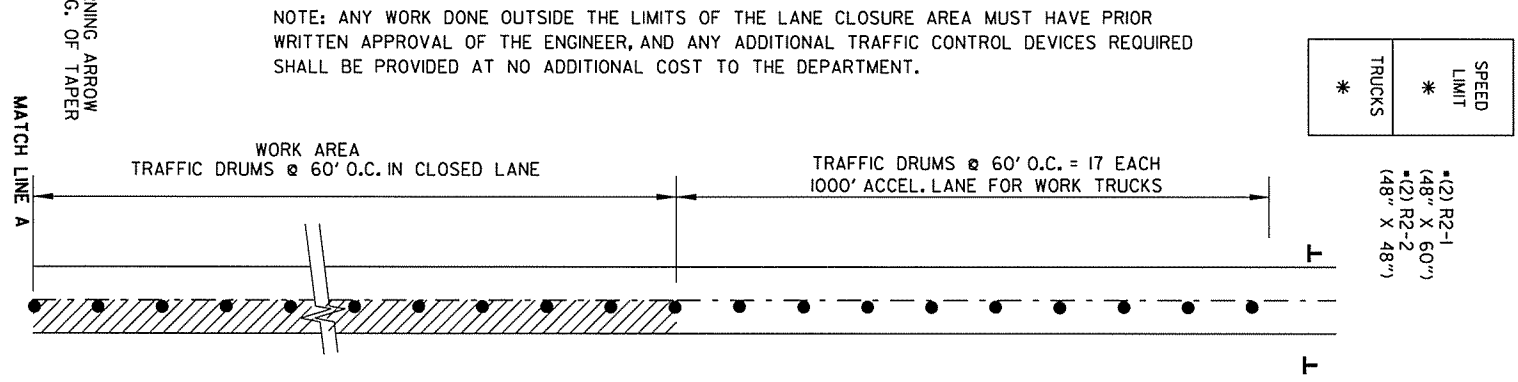
MAINTENANCE OF TRAFFIC



PORTABLE CHANGEABLE MESSAGE SIGN TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

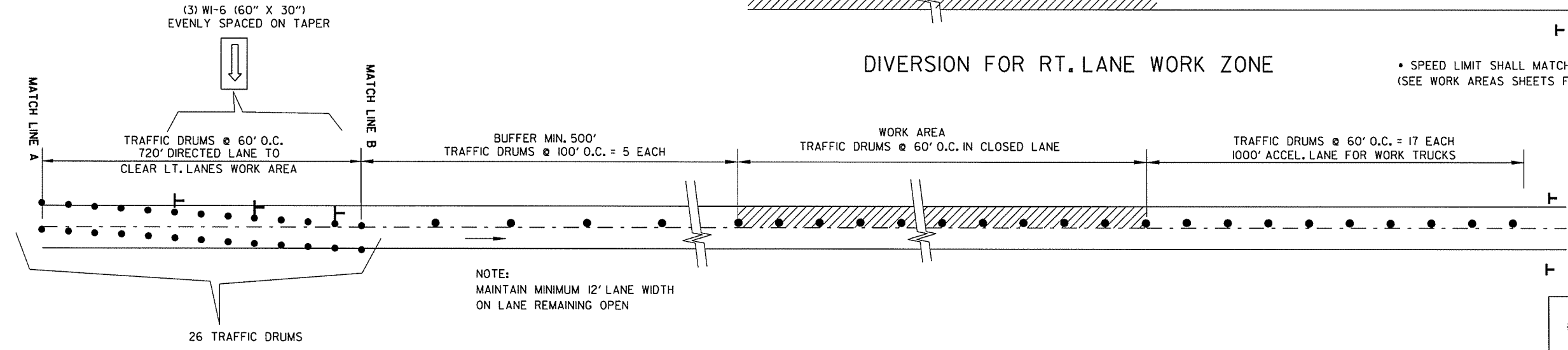
•SPEED LIMIT SIGNS SHALL BE 10 MPH BELOW PERMANENT SPEED LIMIT.

### RT. LANE CLOSURE



### DIVERSION FOR RT. LANE WORK ZONE

• SPEED LIMIT SHALL MATCH PERMANENT SPEED LIMIT. (SEE WORK AREAS SHEETS FOR FURTHER INFORMATION)



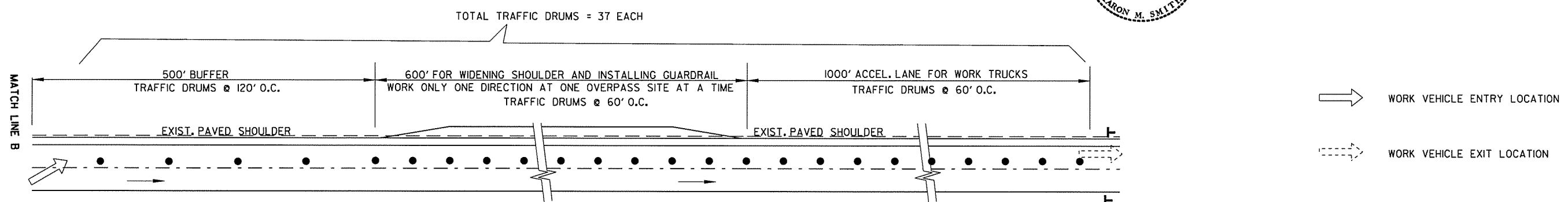
### DIVERSION FOR LT. LANE WORK ZONE

NOTE: REFER TO SP-MAINTENANCE OF TRAFFIC FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE.

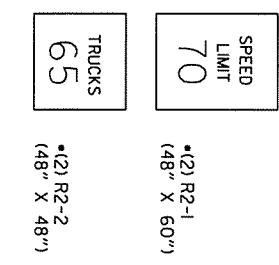
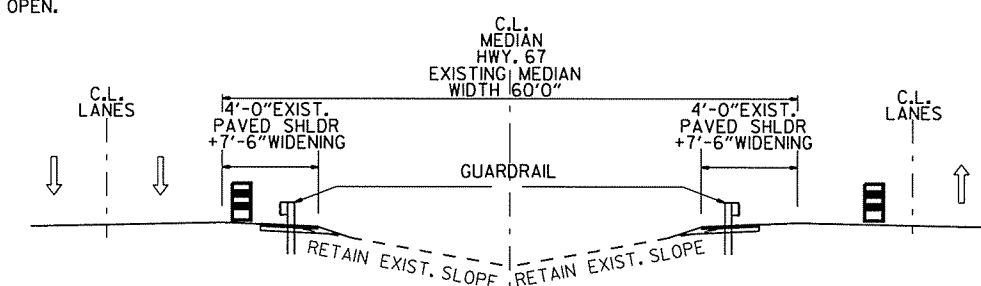
## MAINTENANCE OF TRAFFIC LANE CLOSURES



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012195	45
MAINTENANCE OF TRAFFIC								

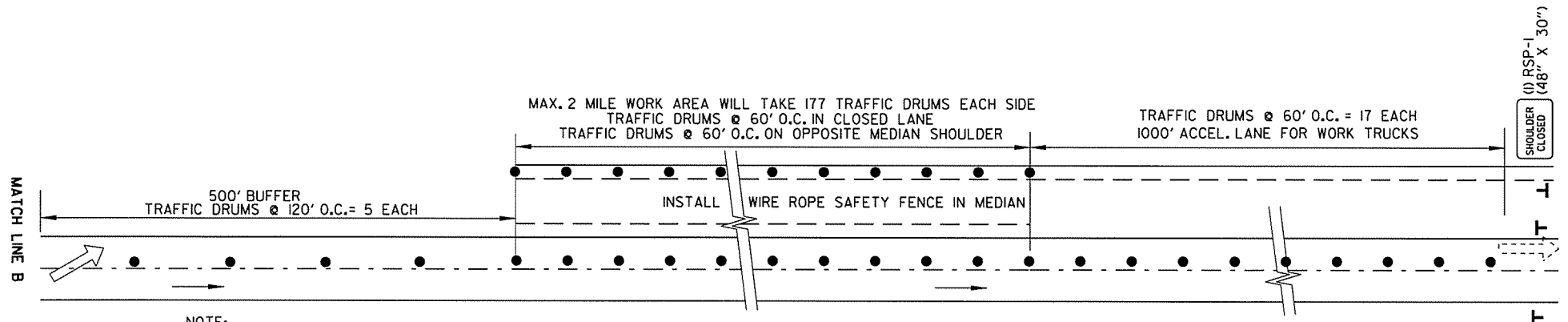


NOTE:  
MAINTAIN MINIMUM 12' LANE WIDTH  
ON LANE REMAINING OPEN.

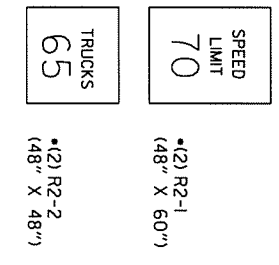
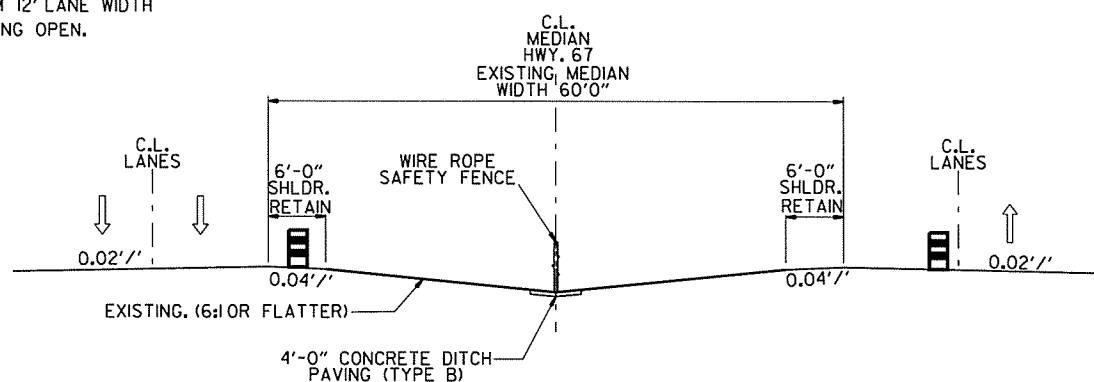


NOTE: REFER TO SP-MAINTENANCE OF TRAFFIC FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE.

### MOVABLE WORK ZONE FOR GUARDRAIL INSTALLATION



NOTE:  
MAINTAIN MINIMUM 12' LANE WIDTH  
ON LANE REMAINING OPEN.



\*SPEED LIMIT SIGNS SHALL MATCH PERMANENT SPEED LIMIT.

NOTE: CONTRACTOR MUST UTILIZE ENTRY/EXIT LOCATION AS SHOWN ON THE PLANS.

### MOVABLE WORK ZONE FOR WRSF INSTALLATION

## MAINTENANCE OF TRAFFIC WORK AREAS

## EROSION CONTROL

LOCATION	TEMPORARY EROSION CONTROL						PERMANENT EROSION CONTROL				
	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	DROP INLET SILT FENCE (E-7)	SEDIMENT REMOVAL AND DISPOSAL	SEEDING	LIME	MULCH COVER	SECOND SEEDING APPLICATION	WATER
	ACRE	ACRE	M.GAL.	BAG	LIN.FT.	C.Y.	ACRE	TON	ACRE	ACRE	M.GAL.
ENTIRE JOB	62.11	62.11	1267.0	6680	5850	555.45	62.11	124.22	62.11	62.11	6335.2
ENTIRE PROJECT IF AND WHERE DIRECTED BY THE ENGINEER											
TOTALS:	62.11	62.11	1267.0	6760	5940	555.45	62.11	124.22	62.11	62.11	6335.2

**BASIS OF ESTIMATE:**

LIME.....2 TONS/ACRE OF SEEDING  
 WATER.....102.0 M.G./ACRE OF SEEDING  
 WATER.....20.4 M.G./ACRE OF TEMPORARY SEEDING  
 DROP INLET SILT FENCES.....30 LIN.FT./LOCATION  
 SAND BAG DITCH CHECKS.....20 BAGS/LOCATION

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION OF U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

### STRUCTURES

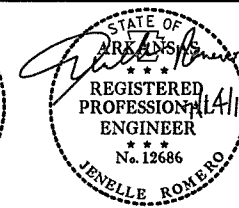
STATION	DESCRIPTION	SIDE DRAIN
		18" LF
2009+00	SIDE DRAIN AT CROSS OVER	46
TOTAL :		46

NOTES: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE NOTED.  
 FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE NOTED.

### ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	ADVANCE WARNING ARROW PANEL	PORTABLE CHANGEABLE MESSAGE SIGN
			SQ.FT-LIN.FT.-EA	NO.	SQ. FT.			
W20-1	ROAD WORK 1 MILE	48"X48"	16	4	64			
W20-1	ROAD WORK 1/2 MILE	48"X48"	16	4	64			
W20-1	ROAD WORK 1500 FT.	48"X48"	16	4	64			
W20-1	ROAD WORK AHEAD	48"X48"	16	24	384			
G20-1	ROAD WORK NEXT xx MILES	60"X24"	10	2	20			
G20-2	END ROAD WORK	48"X24"	8	4	32			
SPECIAL 1	MERGE NOW + ARROW	48"X48"	16	1	16			
W20-5	RIGHT LANE CLOSED 1 MILE	48"X48"	16	2	32			
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"X48"	16	2	32			
W20-5	RIGHT LANE CLOSED 1500 FT.	48"X48"	16	2	32			
W4-2R	RIGHT LANE CLOSING GRAPHIC	48"X48"	16	2	32			
W1-6	LARGER ARROW	60"X30"	12.5	6	75			
R4-1	DO NOT PASS	48"X60"	20	4	80			
R55-1	FINES DOUBLE IN WORK ZONES	36"X60"	15	4	60			
R2-5A	REDUCED SPEED AHEAD	48"X60"	20	2	40			
R2-1	SPEED LIMIT 60 MPH	48"X60"	20	2	40			
R2-1	SPEED LIMIT 70 MPH	48"X60"	20	2	40			
R2-2	TRUCKS 65	48"X60"	20	2	40			
RSP-1	SHOULDER CLOSED	48"X30"	10	3	30			
TRAFFIC DRUMS			421			421		
ADVANCE WARNING ARROW PANEL			1			110		
PORTABLE CHANGEABLE MESSAGE SIGN			2					82
TOTALS:					1177	421	110	82

NOTE: THIS IS A HIGH VOLUME ROAD AS DEFINED IN SECTION 604.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014.



RESPONSIBLE FOR QUANTITIES IN EROSION CONTROL AND ADVANCE WARNING SIGNS AND DEVICES TABLES

RESPONSIBLE FOR ALL OTHER QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							012195	46	96

**QUANTITIES**

### GUARDRAIL

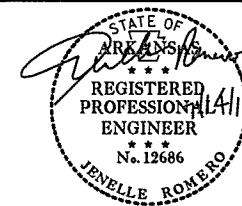
STATION	STATION	LOCATION	GUARDRAIL	TERMINAL ANCHOR POST	GUARDRAIL TERMINAL
			(TYPE A) LIN.FT.	(TYPE 1) EACH	(TYPE 2) EACH
54+03.00	59+53.00	RT. SHLDR. AT HWY. 258 OVERPASS	500	1	1
56+38.00	61+88.00	LT. SHLDR. AT HWY. 258 OVERPASS	500	1	1
118+55.00	124+05.00	RT. SHLDR. AT CURTIS DAVIS RD. OVERPASS	500	1	1
120+87.00	126+37.00	LT. SHLDR. AT CURTIS DAVIS RD. OVERPASS	500	1	1
222+53.00	228+03.00	RT. SHLDR. AT MAIN ST. OVERPASS	500	1	1
224+97.00	230+47.00	LT. SHLDR. AT MAIN ST. OVERPASS	500	1	1
295+58.00	301+08.00	RT. SHLDR. AT HORSESHOE LAKE RD. OVERPASS	500	1	1
297+86.00	303+36.00	LT. SHLDR. AT HORSESHOE LAKE RD. OVERPASS	500	1	1
962+46.00	967+96.00	RT. SHLDR. AT HWY. 224 OVERPASS	500	1	1
964+86.00	970+36.00	LT. SHLDR. AT HWY. 224 OVERPASS	500	1	1
1061+79.00	1067+29.00	RT. SHLDR. AT CO. RD. 16 OVERPASS	500	1	1
1064+15.00	1069+65.00	LT. SHLDR. AT CO. RD. 16 OVERPASS	500	1	1
1166+35.00	1171+85.00	RT. SHLDR. AT CO. RD. 18 OVERPASS	500	1	1
1168+71.00	1174+21.00	LT. SHLDR. AT CO. RD. 18 OVERPASS	500	1	1
1308+74.00	1314+24.00	RT. SHLDR. AT HWY. 14 OVERPASS	500	1	1
1311+08.00	1316+58.00	LT. SHLDR. AT HWY. 14 OVERPASS	500	1	1
1485+42.00	1490+92.00	RT. SHLDR. AT HWY. 384 OVERPASS	500	1	1
1487+71.00	1493+21.00	LT. SHLDR. AT HWY. 384 OVERPASS	500	1	1
1597+52.00	1603+02.00	RT. SHLDR. AT HWY. 18 OVERPASS	500	1	1
1599+88.00	1605+38.00	LT. SHLDR. AT HWY. 18 OVERPASS	500	1	1
1724+83.00	1730+33.00	RT. SHLDR. AT CO. RD. 43 OVERPASS	500	1	1
1727+13.00	1732+63.00	LT. SHLDR. AT CO. RD. 43 OVERPASS	500	1	1
1864+44.00	1869+94.00	RT. SHLDR. AT CO. RD. 41 OVERPASS	500	1	1
1866+77.00	1872+27.00	LT. SHLDR. AT CO. RD. 41 OVERPASS	500	1	1
2290+08.00	2295+58.00	RT. SHLDR. AT CO. RD. 74 OVERPASS	500	1	1
2292+47.00	2297+97.00	LT. SHLDR. AT CO. RD. 74 OVERPASS	500	1	1
2453+40.00	2458+90.00	RT. SHLDR. AT CO. RD. 391 OVERPASS	500	1	1
2455+83.00	2461+33.00	LT. SHLDR. AT CO. RD. 391 OVERPASS	500	1	1
2513+16.00	2518+91.00	RT. SHLDR. AT HWY. 226 OVERPASS	525	1	1
2515+56.00	2521+31.00	LT. SHLDR. AT HWY. 226 OVERPASS	525	1	1
TOTALS:			15050	30	30

### REMOVAL AND DISPOSAL ITEMS

STATION	DESCRIPTION	IMPACT ATTENUATION BARRIER
		EACH
57+97	ON CENTERLINE OF MEDIAN	2
122+46	ON CENTERLINE OF MEDIAN	2
226+50	ON CENTERLINE OF MEDIAN	2
299+47	ON CENTERLINE OF MEDIAN	2
966+41	ON CENTERLINE OF MEDIAN	2
1065+72	ON CENTERLINE OF MEDIAN	2
1170+28	ON CENTERLINE OF MEDIAN	2
1312+66	ON CENTERLINE OF MEDIAN	2
1489+30	ON CENTERLINE OF MEDIAN	2
1601+46	ON CENTERLINE OF MEDIAN	2
1728+73	ON CENTERLINE OF MEDIAN	2
1868+36	ON CENTERLINE OF MEDIAN	2
2294+03	ON CENTERLINE OF MEDIAN	2
2457+37	ON CENTERLINE OF MEDIAN	2
2517+24	ON CENTERLINE OF MEDIAN	2
TOTAL:		30

## QUANTITIES

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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
				6	ARK.			
				JOB NO.		012195	47	96

**QUANTITIES**

**CONCRETE DITCH PAVING**

STATION	STATION	STATION EQUATION	LOCATION	LENGTH	WIDTH	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
				FEET	FEET	SQ. YD.	M. GAL.	
2150+55.20	2157+07.10	BK.		652	4	290	290	3.7
0+00.00	6+81.00	AHD.		681	4	303	303	3.8
13+07.00	57+23.00			4416	4	1963	1963	24.7
58+68.00	106+36.00			4768	4	2119	2119	26.7
107+26.00	121+72.00			1446	4	643	643	8.1
123+20.00	225+82.00			10262	4	4561	4561	57.5
227+18.00	257+98.00			3080	4	1369	1369	17.2
263+52.00	298+71.00			3519	4	1564	1564	19.7
300+23.00	374+41.00			7418	4	3297	3297	41.5
375+31.00	457+39.80	BK.		8209	4	3648	3648	46.0
457+23.65	484+30.00	AHD.		2706	4	1203	1203	15.2
898+10.00	903+53.30	BK.		543	4	241	241	3.0
903+54.30	965+71.00	AHD.		6217	4	2763	2763	34.8
967+11.00	1065+00.00			9789	4	4351	4351	54.8
1066+44.00	1169+56.00			10312	4	4583	4583	57.7
1171+00.00	1311+93.00			14093	4	6264	6264	78.9
1313+39.00	1359+37.27	BK.		4598	4	2044	2044	25.8
1360+00.70	1380+17.00	AHD.		2016	4	896	896	11.3
1387+62.00	1430+26.00			4264	4	1895	1895	23.9
1435+75.00	1488+56.00			5281	4	2347	2347	29.6
1490+07.00	1494+02.87	BK.		396	4	176	176	2.2
1494+44.06	1600+73.00	AHD.		10629	4	4724	4724	59.5
1602+17.00	1627+10.31			2493	4	1108	1108	14.0
1699+87.83	1727+98.00			2810	4	1249	1249	15.7
1805+39.48	1867+62.00			6223	4	2766	2766	34.9
1869+09.00	2008+55.00			13946	4	6198	6198	78.1
2009+45.00	2169+78.00			16033	4	7126	7126	89.8
2177+58.00	2293+32.00			11574	4	5144	5144	64.8
2294+73.00	2456+68.00			16195	4	7198	7198	90.7
2462+89.00	2516+41.00			5352	4	2379	2379	30.0
<b>TOTALS:</b>						84412	84412	1063.6

BASIS OF ESTIMATE:  
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.

**WIRE ROPE SAFETY FENCE**

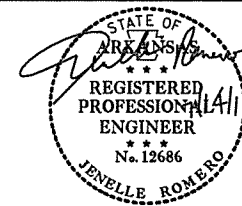
STATION	STATION	STATION EQUATION	LOCATION	WIRE ROPE SAFETY FENCE	◇ WRSF ANCHOR	WRSF MAINTENANCE MATERIALS	WRSF POST REPAIR
				LIN. FT.	EACH	LUMP SUM	EACH
2150+55.20	2157+07.10	BK.	CL HWY. 67	652	1		
0+00.00	6+81.00	AHD.	CL HWY. 67	681	1		
13+07.00	57+23.00		CL HWY. 67	4416	2		
58+68.00	106+36.00		CL HWY. 67	4768	2		
107+26.00	121+72.00		CL HWY. 67	1446	2		
123+20.00	225+82.00		CL HWY. 67	10262	2		
227+18.00	257+98.00		CL HWY. 67	3080	2		
263+52.00	298+71.00		CL HWY. 67	3519	2		
300+23.00	374+41.00		CL HWY. 67	7418	2		
375+31.00	457+39.80	BK.	CL HWY. 67	8209	1		
457+23.65	484+30.00	AHD.	CL HWY. 67	2706	1		
898+10.00	903+53.30	BK.	CL HWY. 67	543	1		
903+54.30	965+71.00	AHD.	CL HWY. 67	6217	1		
967+11.00	1065+00.00		CL HWY. 67	9789	2		
1066+44.00	1169+56.00		CL HWY. 67	10312	2		
1171+00.00	1311+93.00		CL HWY. 67	14093	2		
1313+39.00	1359+37.27	BK.	CL HWY. 67	4598	1		
1360+00.70	1380+17.00	AHD.	CL HWY. 67	2016	1		
1387+62.00	1430+26.00		CL HWY. 67	4264	2		
1435+75.00	1488+56.00		CL HWY. 67	5281	2		
1490+07.00	1494+02.87	BK.	CL HWY. 67	396	1		
1494+44.06	1600+73.00	AHD.	CL HWY. 67	10629	1		
1602+17.00	1627+10.31		CL HWY. 67	2493	2		
1699+87.83	1727+98.00		CL HWY. 67	2810	2		
1805+39.48	1867+62.00		CL HWY. 67	6223	2		
1869+09.00	2008+55.00		CL HWY. 67	13946	2		
2009+45.00	2169+78.00		CL HWY. 67	16033	2		
2177+58.00	2293+32.00		CL HWY. 67	11574	2		
2294+73.00	2456+68.00		CL HWY. 67	16195	2		
2462+89.00	2516+41.00		CL HWY. 67	5352	2		
<b>* ENTIRE PROJECT</b>							50
<b>ENTIRE PROJECT</b>						1.00	
<b>TOTALS:</b>				189921	50	1.00	50

◇ THIS ITEM SHOWN FOR INFORMATION ONLY

\* QUANTITY IS ESTIMATED.  
SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

**QUANTITIES**

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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
				6	ARK.			
				JOB NO.		012195	48	96

**QUANTITIES**

**BASE AND SURFACING**

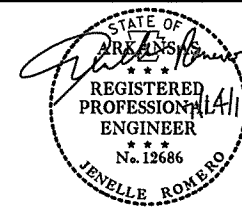
STATION	STATION	LOCATION	LENGTH FEET	AGGREGATE BASE COURSE (CLASS 7)		ACHM SURFACE COURSE (1/2") (PG 64-22)			
				TON / STATION	TON	AVG. WID. FEET	SQ. YD.	POUND / SQ. YD.	TON
53+60.00	59+96.00	RT. SHLDR. AT HWY. 258 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
55+95.00	62+31.00	LT. SHLDR. AT HWY. 258 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
106+66.00	106+96.00	CROSS OVER	30.00	0.00	0.00	48.00	160.00	220.00	17.60
118+12.00	124+48.00	RT. SHLDR. AT CURTIS DAVIS RD. OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
120+44.00	126+80.00	LT. SHLDR. AT CURTIS DAVIS RD. OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
222+10.00	228+46.00	RT. SHLDR. AT MAIN ST. OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
224+54.00	230+90.00	LT. SHLDR. AT MAIN ST. OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
295+15.00	301+51.00	RT. SHLDR. AT HORSESHOE LAKE RD. OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
297+43.00	303+79.00	LT. SHLDR. AT HORSESHOE LAKE RD. OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
962+03.00	968+39.00	RT. SHLDR. AT HWY. 224 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
964+43.00	970+79.00	LT. SHLDR. AT HWY. 224 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1061+36.00	1067+72.00	RT. SHLDR. AT CO. RD. 16 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1063+72.00	1070+08.00	LT. SHLDR. AT CO. RD. 16 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1165+92.00	1172+28.00	RT. SHLDR. AT CO. RD. 18 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1168+28.00	1174+64.00	LT. SHLDR. AT CO. RD. 18 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1308+32.00	1314+68.00	RT. SHLDR. AT HWY. 14 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1310+65.00	1317+01.00	LT. SHLDR. AT HWY. 14 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1484+99.00	1491+35.00	RT. SHLDR. AT HWY. 384 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1487+28.00	1493+64.00	LT. SHLDR. AT HWY. 384 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1597+09.00	1603+45.00	RT. SHLDR. AT HWY. 18 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1599+45.00	1605+81.00	LT. SHLDR. AT HWY. 18 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1724+40.00	1730+76.00	RT. SHLDR. AT CO. RD. 43 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1726+70.00	1733+06.00	LT. SHLDR. AT CO. RD. 43 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1864+01.00	1870+37.00	RT. SHLDR. AT CO. RD. 41 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
1866+34.00	1872+70.00	LT. SHLDR. AT CO. RD. 41 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
2008+92.00	2009+08.00	CROSS OVER	16.00	40.83	6.53	48.00	85.33	220.00	9.39
2289+65.00	2296+01.00	RT. SHLDR. AT CO. RD. 74 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
2292+04.00	2298+40.00	LT. SHLDR. AT CO. RD. 74 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
2452+97.00	2459+33.00	RT. SHLDR. AT CO. RD. 391 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
2455+40.00	2461+76.00	LT. SHLDR. AT CO. RD. 391 OVERPASS	636.00	35.00	222.60	7.50	530.00	220.00	58.30
2512+73.00	2519+34.00	RT. SHLDR. AT HWY. 226 OVERPASS	661.00	35.00	231.35	7.50	550.83	220.00	60.59
2515+13.00	2521+74.00	LT. SHLDR. AT HWY. 226 OVERPASS	661.00	35.00	231.35	7.50	550.83	220.00	60.59
<b>TOTALS:</b>					6702.03		16186.99		1780.57

BASIS OF ESTIMATE:  
 110 LBS. PER SQ. YD. PER INCH DEPTH  
 ACHM SURFACE COURSE (1/2").....94.8% MIN. AGGR.....5.2% ASPHALT BINDER  
 MAXIMUM NUMBER OF GYRATIONS = 115

**QUANTITIES**

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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
				6	ARK.			
				JOB NO.		012195	49	96

**QUANTITIES**

**EARTHWORK**

STATION	STATION	LOCATION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
53+60.00	59+96.00	RT. SHLDR. AT HWY. 258 OVERPASS	82	17
55+95.00	62+31.00	LT. SHLDR. AT HWY. 258 OVERPASS	82	17
118+12.00	124+48.00	RT. SHLDR. AT CURTIS DAVIS RD. OVERPASS	82	17
120+44.00	126+80.00	LT. SHLDR. AT CURTIS DAVIS RD. OVERPASS	82	17
222+10.00	228+46.00	RT. SHLDR. AT MAIN ST. OVERPASS	82	17
224+54.00	230+90.00	LT. SHLDR. AT MAIN ST. OVERPASS	82	17
295+15.00	301+51.00	RT. SHLDR. AT HORSESHOE LAKE RD. OVERPASS	82	17
297+43.00	303+79.00	LT. SHLDR. AT HORSESHOE LAKE RD. OVERPASS	82	17
962+03.00	968+39.00	RT. SHLDR. AT HWY. 224 OVERPASS	82	17
964+43.00	970+79.00	LT. SHLDR. AT HWY. 224 OVERPASS	82	17
1061+36.00	1067+72.00	RT. SHLDR. AT CO. RD. 16 OVERPASS	82	17
1063+72.00	1070+08.00	LT. SHLDR. AT CO. RD. 16 OVERPASS	82	17
1165+92.00	1172+28.00	RT. SHLDR. AT CO. RD. 18 OVERPASS	82	17
1168+28.00	1174+64.00	LT. SHLDR. AT CO. RD. 18 OVERPASS	82	17
1308+31.00	1314+67.00	RT. SHLDR. AT HWY. 14 OVERPASS	82	17
1310+65.00	1317+01.00	LT. SHLDR. AT HWY. 14 OVERPASS	82	17
1484+99.00	1491+35.00	RT. SHLDR. AT HWY. 384 OVERPASS	82	17
1487+28.00	1493+64.00	LT. SHLDR. AT HWY. 384 OVERPASS	82	17
1597+09.00	1603+45.00	RT. SHLDR. AT HWY. 18 OVERPASS	82	17
1599+45.00	1605+81.00	LT. SHLDR. AT HWY. 18 OVERPASS	82	17
1724+40.00	1730+76.00	RT. SHLDR. AT CO. RD. 43 OVERPASS	82	17
1726+70.00	1733+06.00	LT. SHLDR. AT CO. RD. 43 OVERPASS	82	17
1864+01.00	1870+37.00	RT. SHLDR. AT CO. RD. 41 OVERPASS	82	17
1866+34.00	1872+70.00	LT. SHLDR. AT CO. RD. 41 OVERPASS	82	17
2289+65.00	2296+01.00	RT. SHLDR. AT CO. RD. 74 OVERPASS	82	17
2292+04.00	2298+40.00	LT. SHLDR. AT CO. RD. 74 OVERPASS	82	17
2452+97.00	2459+33.00	RT. SHLDR. AT CO. RD. 391 OVERPASS	82	17
2455+40.00	2461+76.00	LT. SHLDR. AT CO. RD. 391 OVERPASS	82	17
2512+73.00	2519+34.00	RT. SHLDR. AT HWY. 226 OVERPASS	86	17
2515+13.00	2521+74.00	LT. SHLDR. AT HWY. 226 OVERPASS	86	17
<b>TOTALS:</b>			<b>2468</b>	<b>510</b>

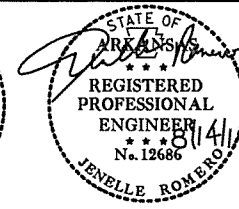
NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID FOR AS PLAN QUANTITY.

**QUANTITIES**

7/11/2014

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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
				6	ARK.			
				JOB NO.		012195	50	96

**SUMMARY OF QUANTITIES AND REVISIONS**

**SUMMARY OF QUANTITIES**

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER	30	EACH
210	UNCLASSIFIED EXCAVATION	2468	CU. YD.
210	COMPACTED EMBANKMENT	510	CU. YD.
303	AGGREGATE BASE COURSE (CLASS 7)	6702	TON
SP, SS & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	1688	TON
SP, SS & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	93	TON
601	MOBILIZATION	1.00	LUMP SUM
SP & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
603	TRAFFIC CONTROL SUPERVISOR	1.00	LUMP SUM
604	SIGNS	1177	SQ. FT.
604	TRAFFIC DRUMS	421	EACH
604	ADVANCE WARNING ARROW PANEL	110	DAY
SP & 604	PORTABLE CHANGEABLE MESSAGE SIGN	82	WEEK
SP & 605	CONCRETE DITCH PAVING (TYPE B)	84412	SQ. YD.
SP & 606	18" SIDE DRAIN	46	LIN. FT.
617	GUARDRAIL (TYPE A)	15050	LIN. FT.
617	TERMINAL ANCHOR POSTS (TYPE 1)	30	EACH
617	GUARDRAIL TERMINAL (TYPE 2)	30	EACH
620	LIME	124	TON
620	SEEDING	62.11	ACRE
SS & 620	MULCH COVER	124.22	ACRE
620	WATER	8665.8	M. GAL.
621	TEMPORARY SEEDING	62.11	ACRE
621	SAND BAG DITCH CHECKS	6760	BAG
621	DROP INLET SILT FENCE	5940	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	555	CU. YD.
623	SECOND SEEDING APPLICATION	62.11	ACRE
624	SOLID SODDING	84412	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE	189921	LIN. FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE (POST REPAIR)	50	EACH

RESPONSIBLE FOR QUANTITIES  
IN EROSION CONTROL AND  
ADVANCE WARNING SIGNS  
AND DEVICES TABLES

RESPONSIBLE FOR ALL  
OTHER QUANTITIES

**REVISIONS**

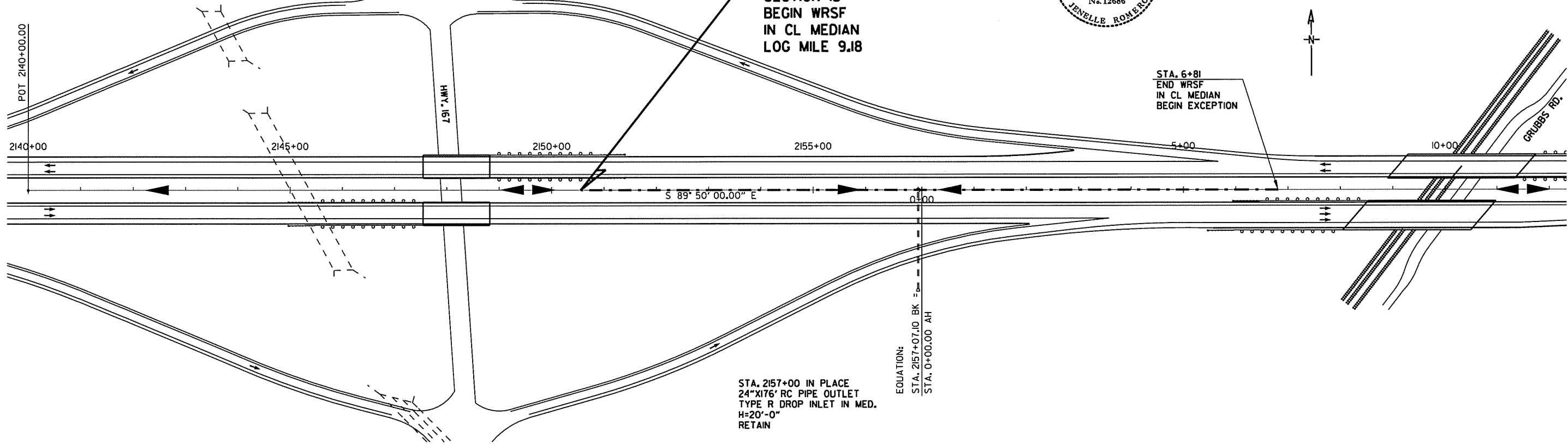
DATE	REVISION	SHEET NUMBER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	51	96
				JOB NO.		012195	51	96
PLAN SHEETS								

STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 12686  
 JENELLE ROMERO

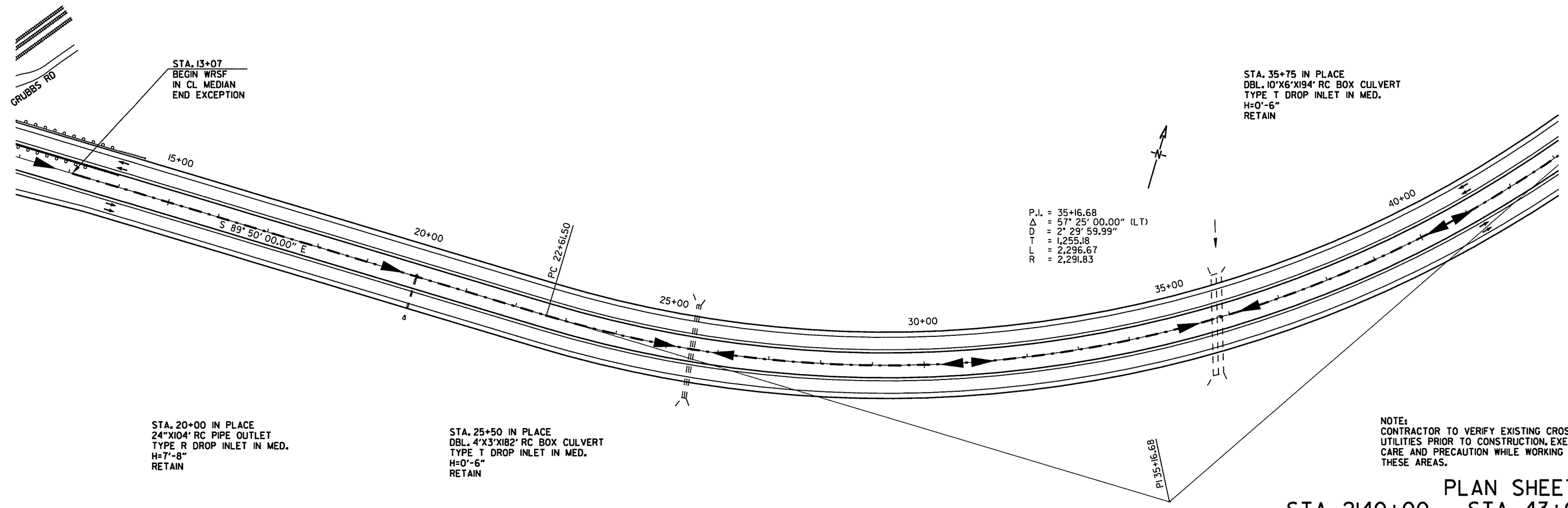
**STA. 2150+55.20**  
**BEGIN JOB 012195**  
**SECTION 13**  
**BEGIN WRSF**  
**IN CL MEDIAN**  
**LOG MILE 9.18**

**STA. 6+81**  
**END WRSF**  
**IN CL MEDIAN**  
**BEGIN EXCEPTION**



**STA. 2157+00 IN PLACE**  
**24\"X176\" RC PIPE OUTLET**  
**TYPE R DROP INLET IN MED.**  
**H=20'-0\"**  
**RETAIN**

EQUATION:  
 STA. 2157+07.10 BK = 0  
 STA. 0+00.00 AH



**STA. 13+07**  
**BEGIN WRSF**  
**IN CL MEDIAN**  
**END EXCEPTION**

**STA. 35+75 IN PLACE**  
**DBL. 10\"X6\"X194\" RC BOX CULVERT**  
**TYPE T DROP INLET IN MED.**  
**H=0'-6\"**  
**RETAIN**

P.I. = 35+16.68  
 Δ = 57° 25' 00.00" (LT)  
 DT = 2' 29' 59.99"  
 T = 1,255.18  
 L = 2,296.67  
 R = 2,291.83

**STA. 20+00 IN PLACE**  
**24\"X104\" RC PIPE OUTLET**  
**TYPE R DROP INLET IN MED.**  
**H=7'-8\"**  
**RETAIN**

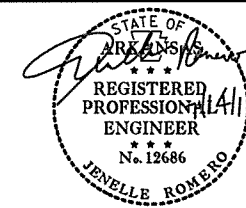
**STA. 25+50 IN PLACE**  
**DBL. 4\"X3\"X182\" RC BOX CULVERT**  
**TYPE T DROP INLET IN MED.**  
**H=0'-6\"**  
**RETAIN**

**NOTE:**  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

**PLAN SHEETS**  
**STA. 2140+00 - STA. 43+00**

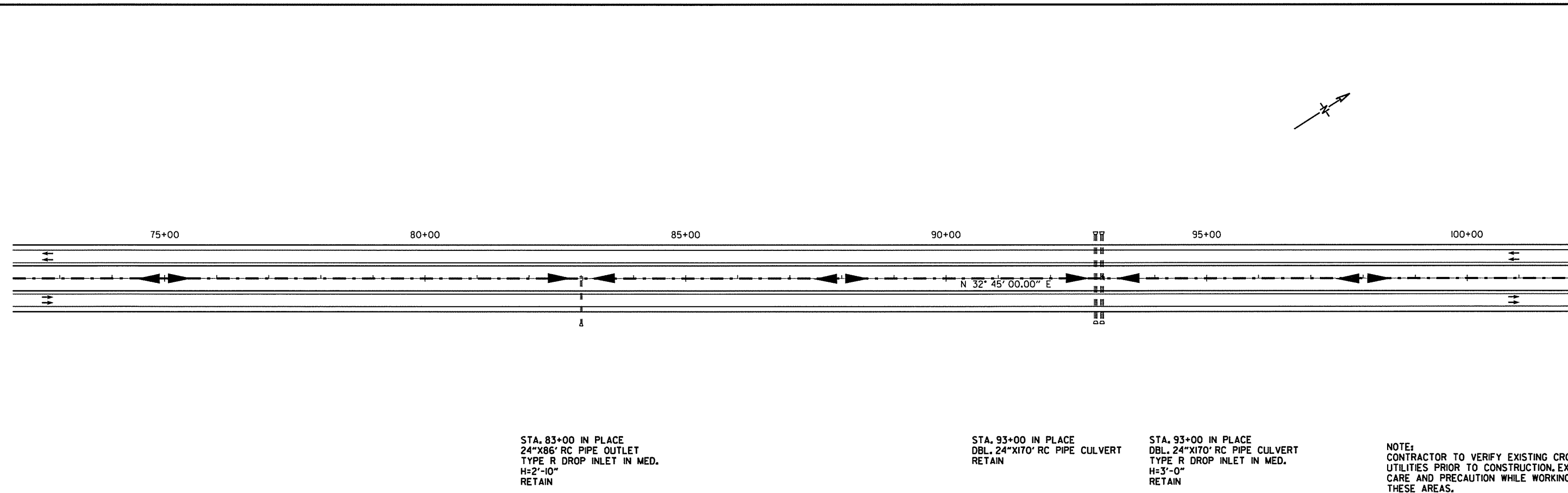
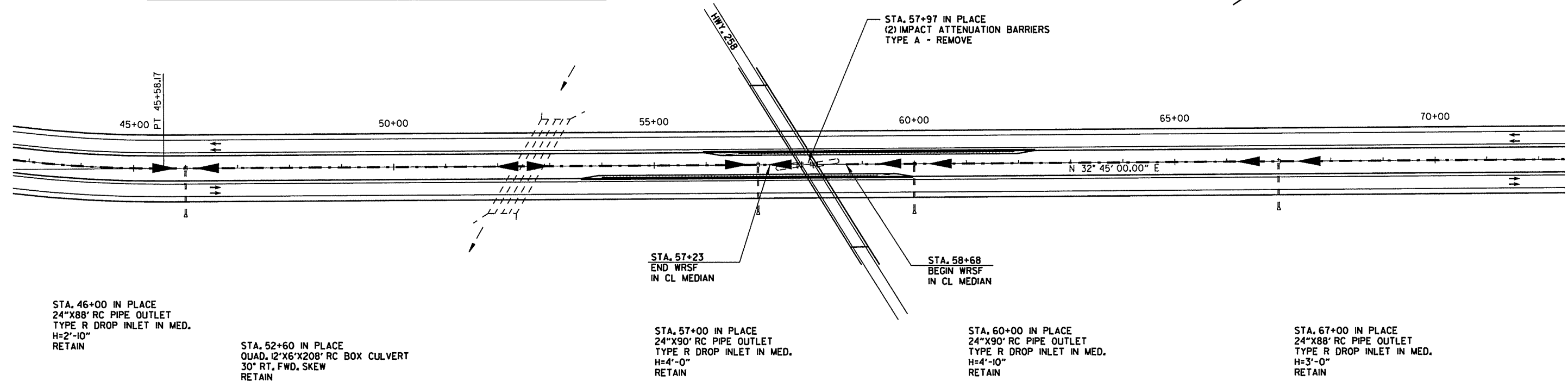
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GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE D)	GUARDRAIL TERMINAL (TYPE 2)
STA. 54+03 - STA. 59+53 (RT. SHLDR.)	LF	EA	EA
STA. 56+38 - STA. 61+88 (LT. SHLDR.)	500	I	I
	500	I	I



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195		52	96

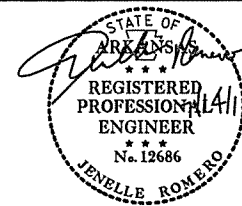
PLAN SHEETS



NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

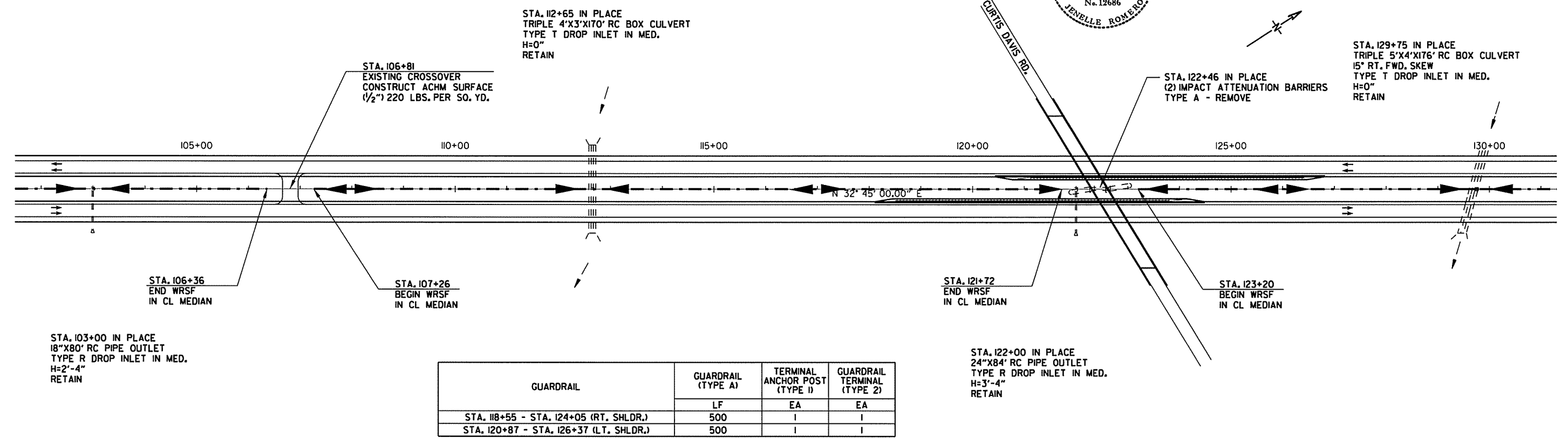
PLAN SHEETS  
STA. 43+00 - STA. 102+00

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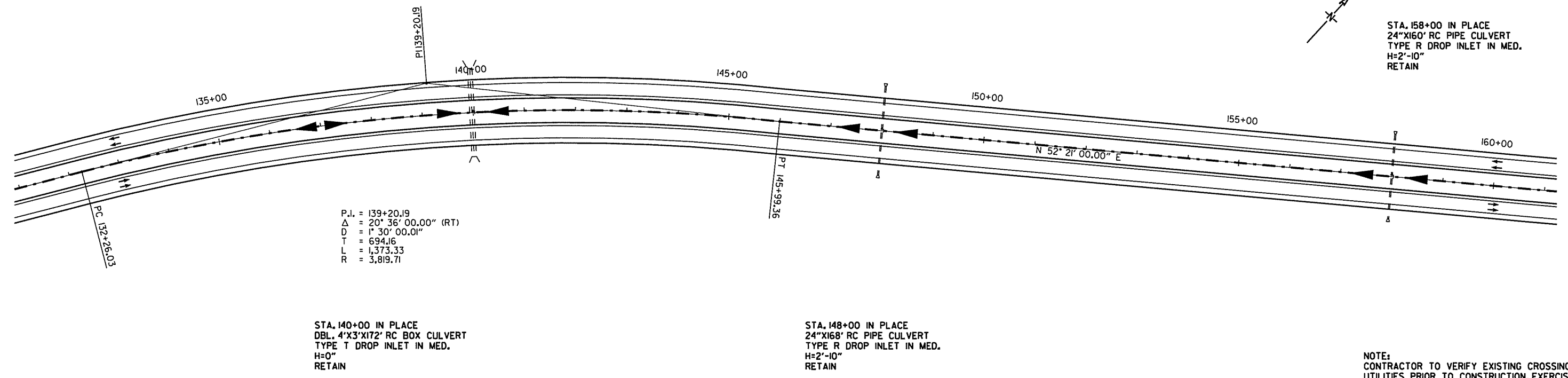


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	53	96	

PLAN SHEETS



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 118+55 - STA. 124+05 (RT. SHLDR.)	500	1	1
STA. 120+87 - STA. 126+37 (LT. SHLDR.)	500	1	1

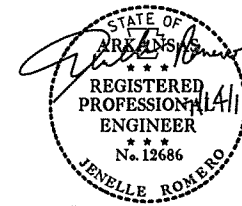


P.I. = 139+20.19  
 $\Delta$  = 20° 36' 00.00" (RT)  
 D = 1° 30' 00.01"  
 T = 694.16  
 L = 1,373.33  
 R = 3,819.71

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 102+00 - STA. 161+00

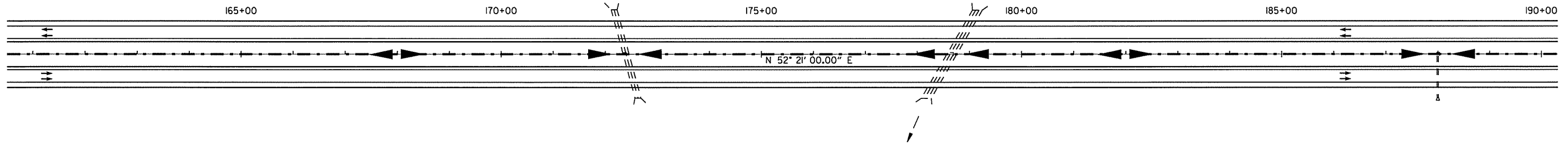
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	54	96
				JOB NO.		012195	54	96

STA. 172+40 IN PLACE  
 DBL. 5'X3'X176' RC BOX CULVERT  
 15° RT. FWD. SKEW  
 TYPE T DROP INLET IN MED.  
 H=0"  
 RETAIN

STA. 178+66 IN PLACE  
 TRIPLE 5'X3'X196' RC BOX CULVERT  
 30° LT. FWD. SKEW  
 TYPE T DROP INLET IN MED.  
 H=0"  
 RETAIN

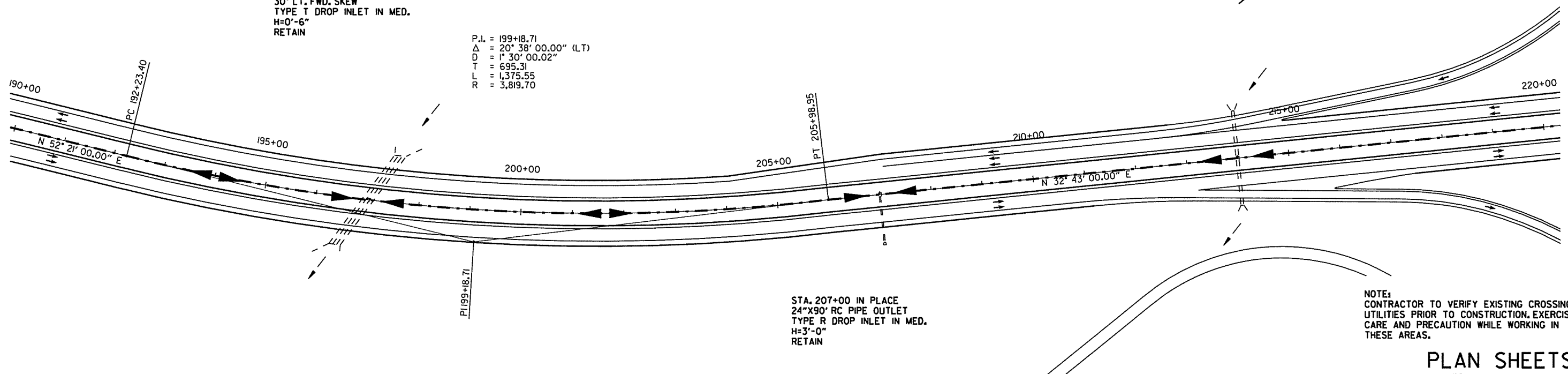


STA. 188+00 IN PLACE  
 24"X84' RC PIPE OUTLET  
 TYPE R DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

STA. 197+00 IN PLACE  
 TRIPLE 6'X3'X215' RC BOX CULVERT  
 30° LT. FWD. SKEW  
 TYPE T DROP INLET IN MED.  
 H=0'-6"  
 RETAIN

P.I. = 199+18.71  
 $\Delta = 20^\circ 38' 00.00''$  (LT)  
 $D = 1^\circ 30' 00.02''$   
 $T = 695.31$   
 $L = 1,375.55$   
 $R = 3,819.70$

STA. 214+00 IN PLACE  
 5'X3'X184' RC BOX CULVERT  
 TYPE T DROP INLET IN MED.  
 H=3'-2"  
 RETAIN



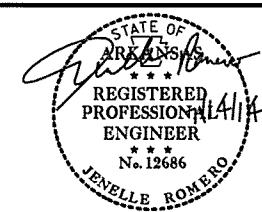
STA. 207+00 IN PLACE  
 24"X90' RC PIPE OUTLET  
 TYPE R DROP INLET IN MED.  
 H=3'-0"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

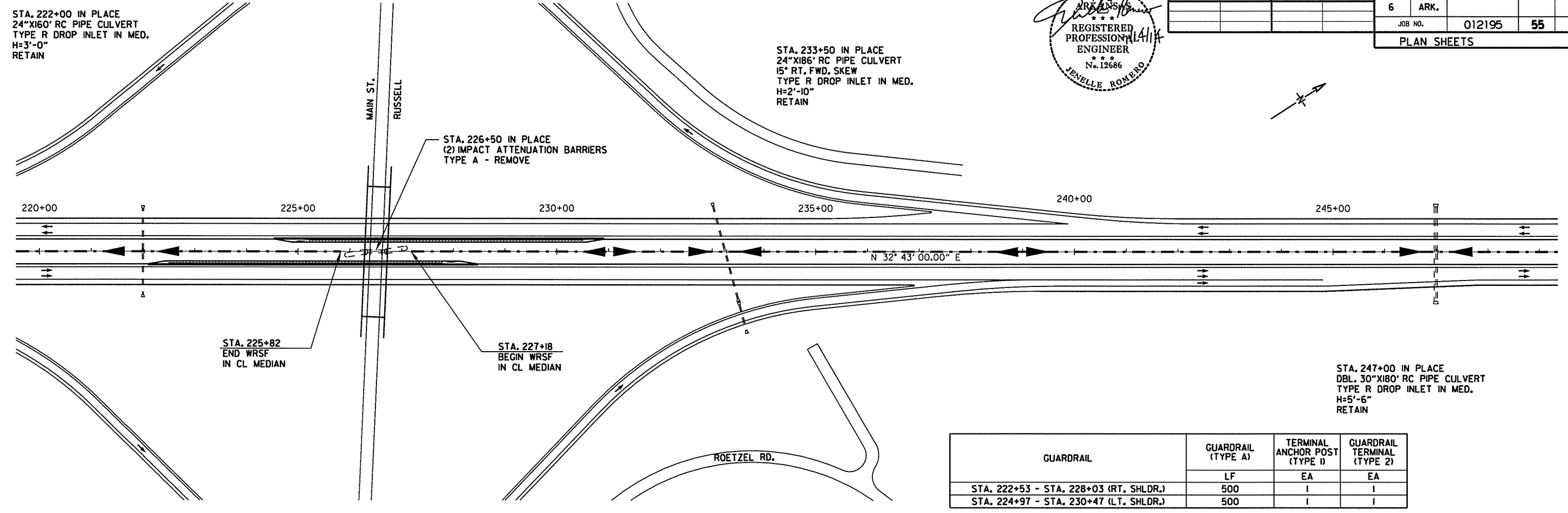
PLAN SHEETS  
 STA. 161+00 - STA. 220+00

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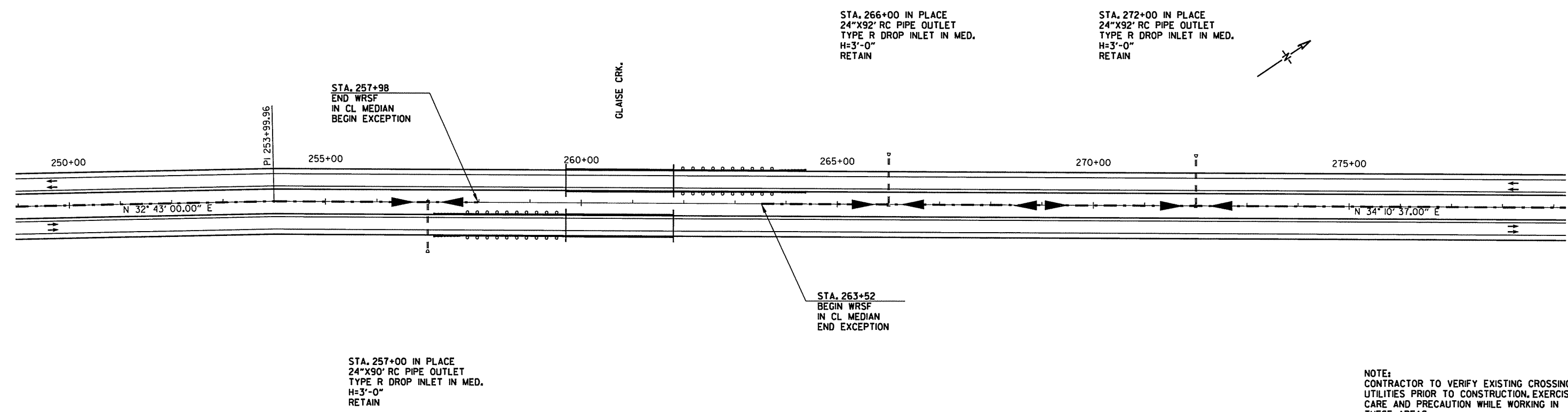
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012195	55	96



PLAN SHEETS



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE D)	GUARDRAIL TERMINAL (TYPE 2)
	STA. 222+53 - STA. 228+03 (RT. SHLDR.)	LF	EA
STA. 224+97 - STA. 230+47 (LT. SHLDR.)	500	I	I
	500	I	I

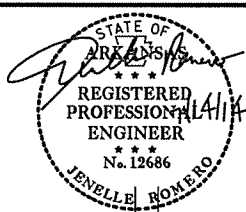


NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 220+00 - STA. 279+00

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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
				6	ARK.			
				JOB NO.		012195	56	96



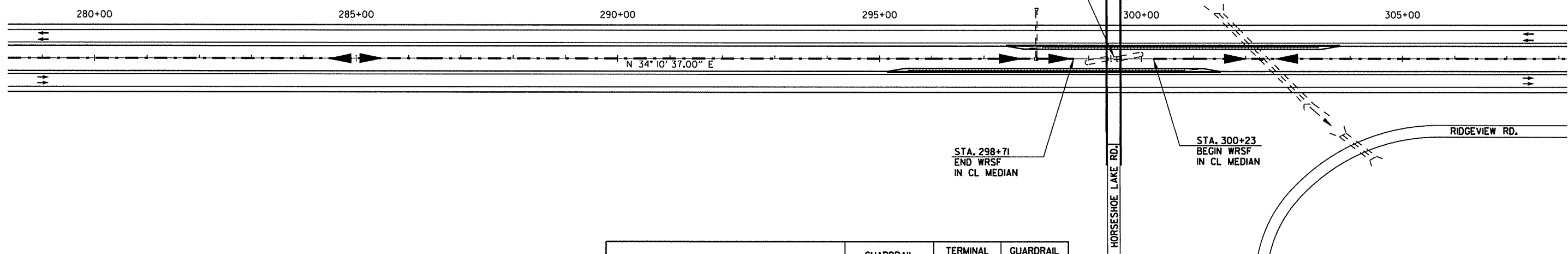
STA. 298+00 IN PLACE  
24"x88' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-0"  
RETAIN

STA. 302+30 IN PLACE  
DBL. 6'X6'X244' RC BOX CULVERT  
45° RT. FWD. SKEW  
TYPE T DROP INLET IN MED.  
H=0"  
RETAIN

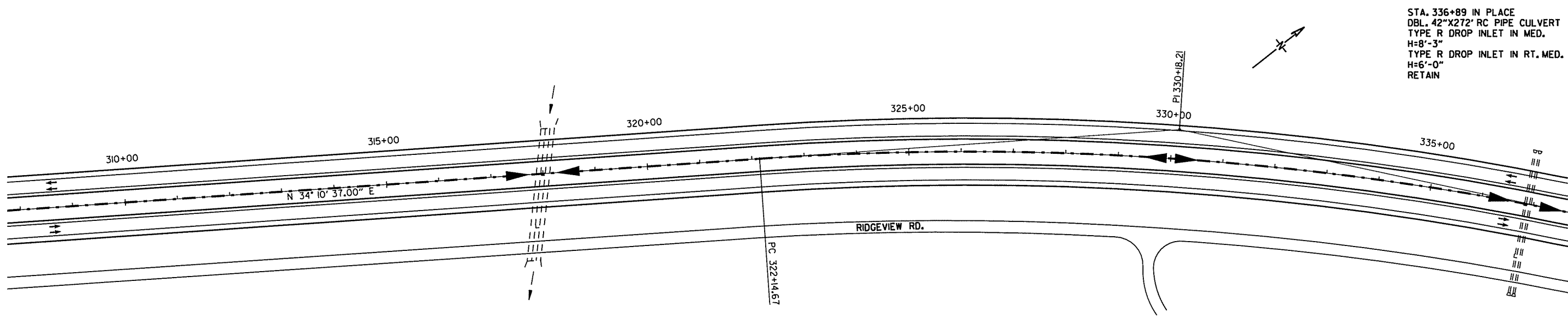
STA. 299+47 IN PLACE  
(2) IMPACT ATTENUATION BARRIERS  
TYPE A - REMOVE

STA. 298+71  
END WRSF  
IN CL. MEDIAN

STA. 300+23  
BEGIN WRSF  
IN CL. MEDIAN



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE II)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 295+58 - STA. 301+08 (RT. SHLDR.)	500	I	I
STA. 297+86 - STA. 303+36 (LT. SHLDR.)	500	I	I



STA. 318+00 IN PLACE  
TRIPLE 8'X4'X254' RC BOX CULVERT  
10° LT. FWD. SKEW  
TYPE T DROP INLET IN MED.  
H=1'-10"  
TYPE T DROP INLET IN RT. MED.  
H=1'-2"  
RETAIN

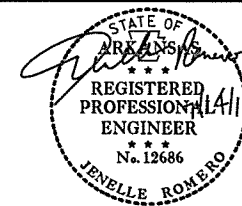
P.I. = 330+18.21  
Δ = 15° 58' 00.00" (RT)  
D = 0° 59' 59.99"  
T = 803.54  
L = 1,596.67  
R = 5,729.59

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 279+00 - STA. 337+00

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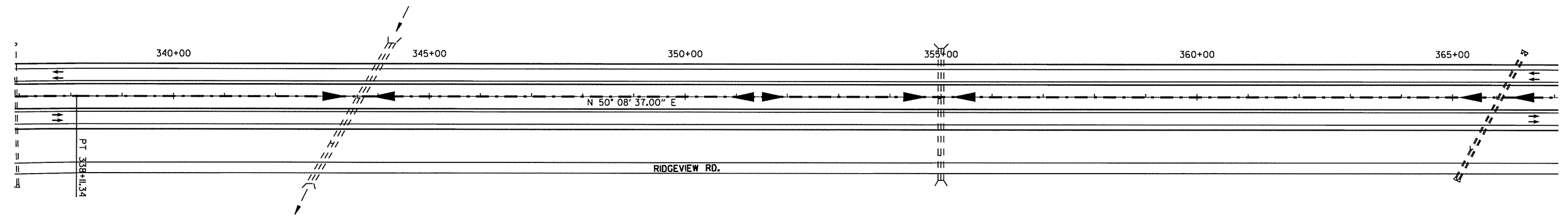


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 012195	57	96

PLAN SHEETS

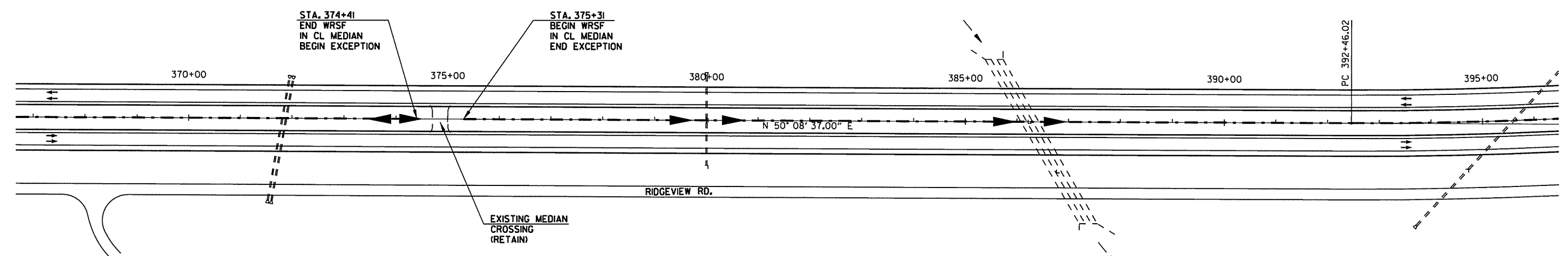
STA. 343+66 IN PLACE  
 DBL. 6'X3'X318' RC BOX CULVERT  
 30° LT. FWD. SKEW  
 TYPE T DROP INLET IN MED.  
 H=5'-4"  
 TYPE T DROP INLET IN RT. MED.  
 H=3'-5"  
 RETAIN

STA. 355+00 IN PLACE  
 DBL. 5'X3'X258' RC BOX CULVERT  
 TYPE T DROP INLET IN MED.  
 H=4'-0"  
 TYPE T DROP INLET IN RT. MED.  
 H=1'-6"  
 RETAIN



STA. 365+95 IN PLACE  
 DBL. 24"X276' RC PIPE CULVERT  
 28° LT. FWD. SKEW  
 TYPE R DROP INLET IN MED.  
 H=4'-3"  
 TYPE R DROP INLET IN RT. MED.  
 H=3'-0"  
 RETAIN

STA. 395+60 IN PLACE  
 30"X434' RC PIPE CULVERT  
 45° LT. FWD. SKEW  
 TYPE R DROP INLET IN RT. MED.  
 H=10'-7"  
 RETAIN



STA. 371+85 IN PLACE  
 DBL. 24"X240' RC PIPE CULVERT  
 10° LT. FWD. SKEW  
 RETAIN

STA. 380+00 IN PLACE  
 24"X186' RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=4'-10"  
 RETAIN

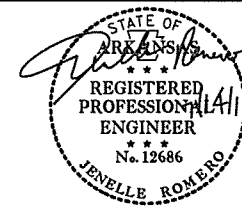
STA. 386+25 IN PLACE  
 TRIPLE 9'X5'X366' RC BOX CULVERT  
 30° RT. FWD. SKEW  
 TYPE T DROP INLET IN MED.  
 H=13'-0"  
 TYPE T DROP INLET IN RT. MED.  
 H=11'-4"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 337+00 - STA. 396+00

1/17/2014

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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
				6	ARK.			
JOB NO. 012195							58	96

PLAN SHEETS

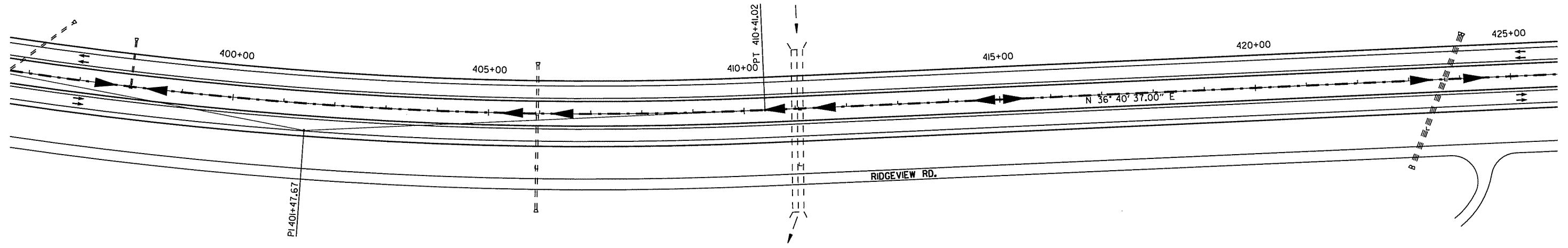
STA. 398+00 IN PLACE  
24"x88" RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-0"  
RETAIN

P.I. = 401+47.67  
Δ = 13° 28' 00.00" (LT)  
D = 0° 45' 00.84"  
T = 901.65  
L = 1,795.00  
R = 7,637.07

STA. 405+95.6 IN PLACE  
42"x282" RC PIPE CULVERT  
TYPE R DROP INLET IN MED.  
H=10'-4"  
TYPE R DROP INLET IN RT. MED.  
H=10'-11"  
RETAIN

STA. 411+05 IN PLACE  
DBL. 10"x5'x317' RC BOX CULVERT  
TYPE T DROP INLET IN MED.  
H=12'-5"  
TYPE T DROP INLET IN RT. MED.  
H=10'-11"  
RETAIN

STA. 423+71 IN PLACE  
DBL. 30"x272' RC PIPE CULVERT  
23° LT. FWD. SKEW  
TYPE R DROP INLET IN MED.  
H=3'-8"  
TYPE R DROP INLET IN RT. MED.  
H=3'-7"  
RETAIN



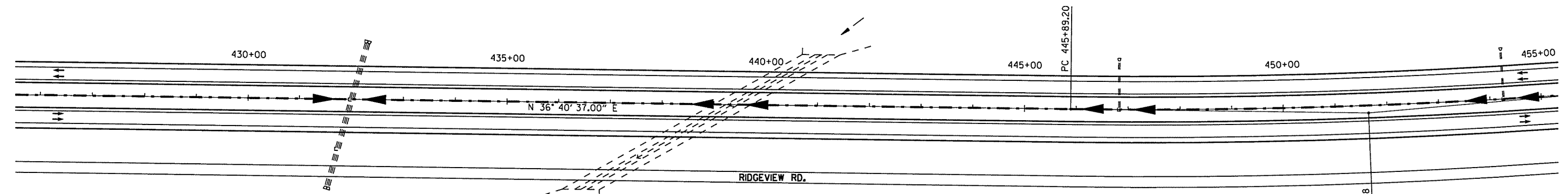
STA. 431+98 IN PLACE  
DBL. 30"x288' RC PIPE CULVERT  
15° LT. FWD. SKEW  
TYPE R DROP INLET IN MED.  
H=9'-0"  
TYPE R DROP INLET IN RT. MED.  
H=7'-7"  
RETAIN

STA. 439+36 IN PLACE  
TRIPLE 11"x8'x533' RC BOX CULVERT  
60° LT. FWD. SKEW  
TYPE T DROP INLET IN MED.  
H=5'-3"  
TYPE T DROP INLET IN RT. MED.  
H=2'-11"  
RETAIN

STA. 446+83.3 IN PLACE  
24"x90' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-0"  
RETAIN

P.I. = 451+64.68  
Δ = 5° 45' 00.00" (LT)  
D = 0° 30' 00.00"  
T = 575.48  
L = 1,150.00  
R = 11,459.16

STA. 454+26.3 IN PLACE  
24"x90' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-0"  
RETAIN

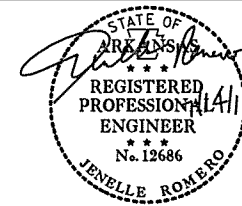


NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 396+00 - STA. 455+00

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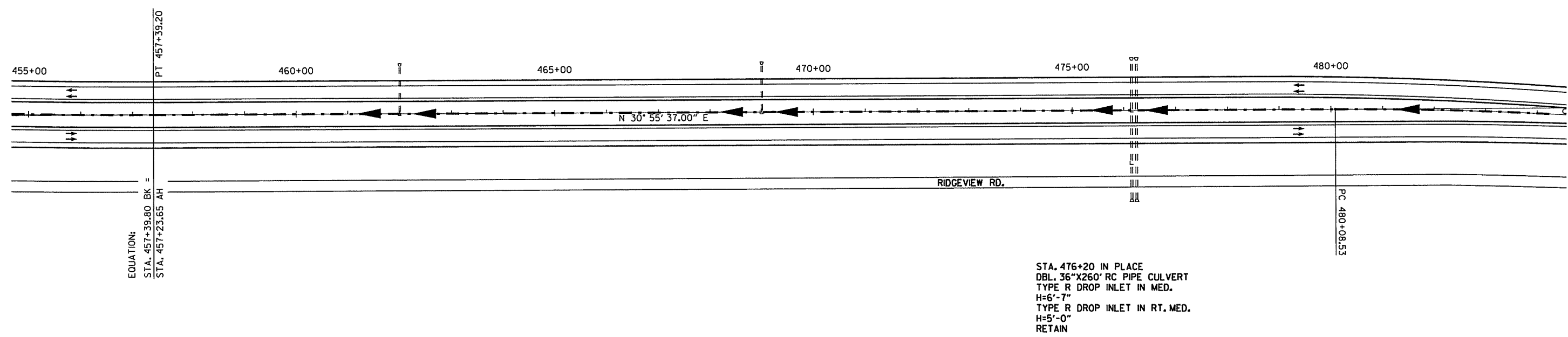


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012195	59	96

PLAN SHEETS

STA. 462+00 IN PLACE  
24"X88" RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-0"  
RETAIN

STA. 469+00 IN PLACE  
24"X88" RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-0"  
RETAIN

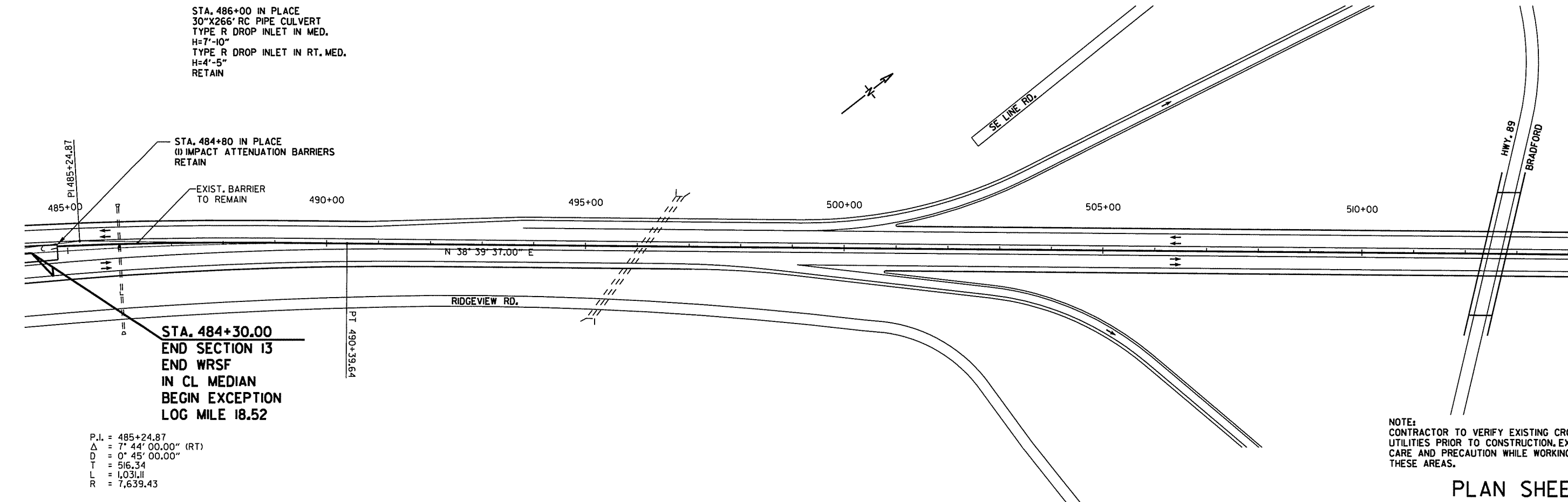


STA. 476+20 IN PLACE  
DBL. 36"X260" RC PIPE CULVERT  
TYPE R DROP INLET IN MED.  
H=6'-7"  
TYPE R DROP INLET IN RT. MED.  
H=5'-0"  
RETAIN

STA. 486+00 IN PLACE  
30"X266" RC PIPE CULVERT  
TYPE R DROP INLET IN MED.  
H=7'-10"  
TYPE R DROP INLET IN RT. MED.  
H=4'-5"  
RETAIN

STA. 484+80 IN PLACE  
(1) IMPACT ATTENUATION BARRIERS  
RETAIN

EXIST. BARRIER  
TO REMAIN

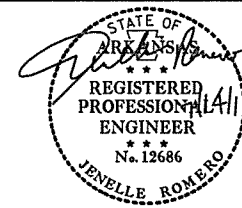


STA. 484+30.00  
END SECTION 13  
END WRSF  
IN CL MEDIAN  
BEGIN EXCEPTION  
LOG MILE 18.52

P.I. = 485+24.87  
Δ = 7° 44' 00.00" (RT)  
D = 0° 45' 00.00"  
T = 516.34  
L = 1,031.11  
R = 7,639.43

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING  
UTILITIES PRIOR TO CONSTRUCTION. EXERCISE  
CARE AND PRECAUTION WHILE WORKING IN  
THESE AREAS.

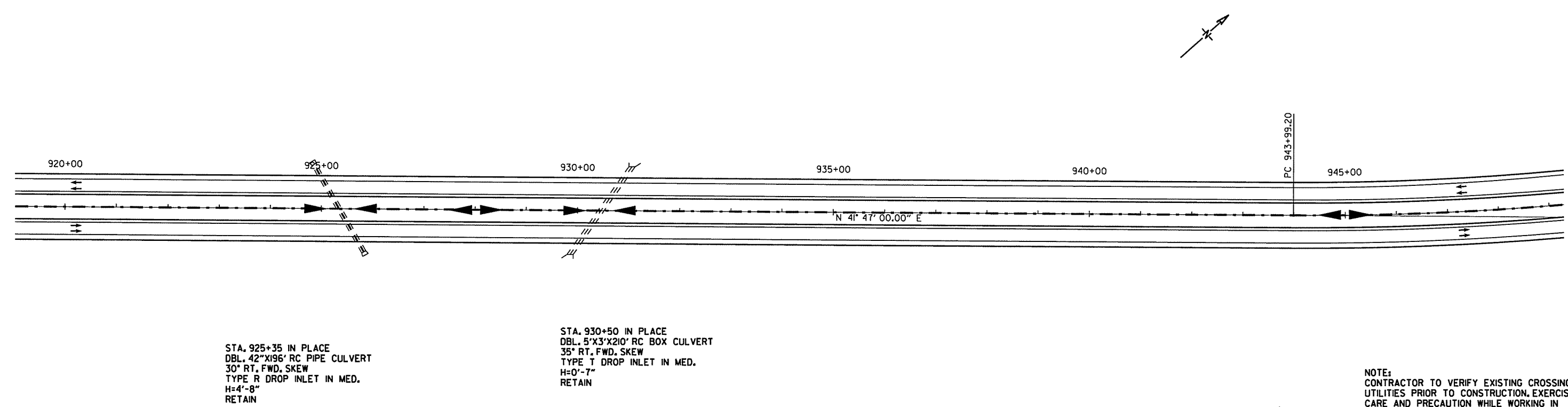
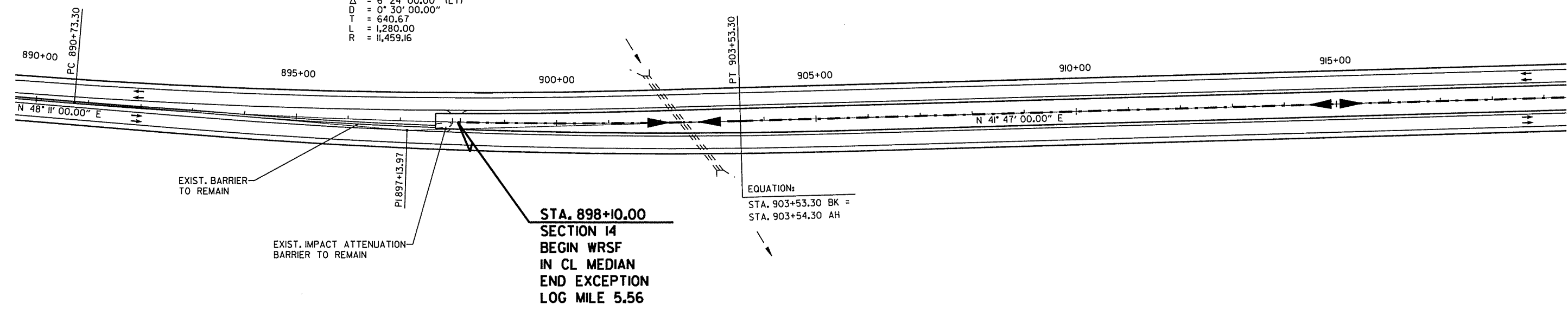
PLAN SHEETS  
STA. 455+00 - STA. 514+00



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	60	96
				JOB NO.		012195	60	96
PLAN SHEETS								

STA. 902+42 IN PLACE  
 DBL. 5'X4'X230' RC BOX CULVERT  
 37° RT. FWD. SKEW  
 TYPE I DROP INLET IN MED.  
 H=3'-0"  
 RETAIN

P.I. = 897+13.97  
 $\Delta$  = 6° 24' 00.00" (LT)  
 D = 0° 30' 00.00"  
 T = 640.67  
 L = 1,280.00  
 R = 11,459.16

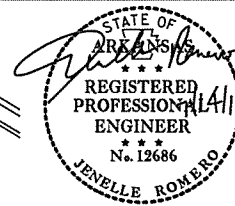


NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 890+00 - STA. 949+00

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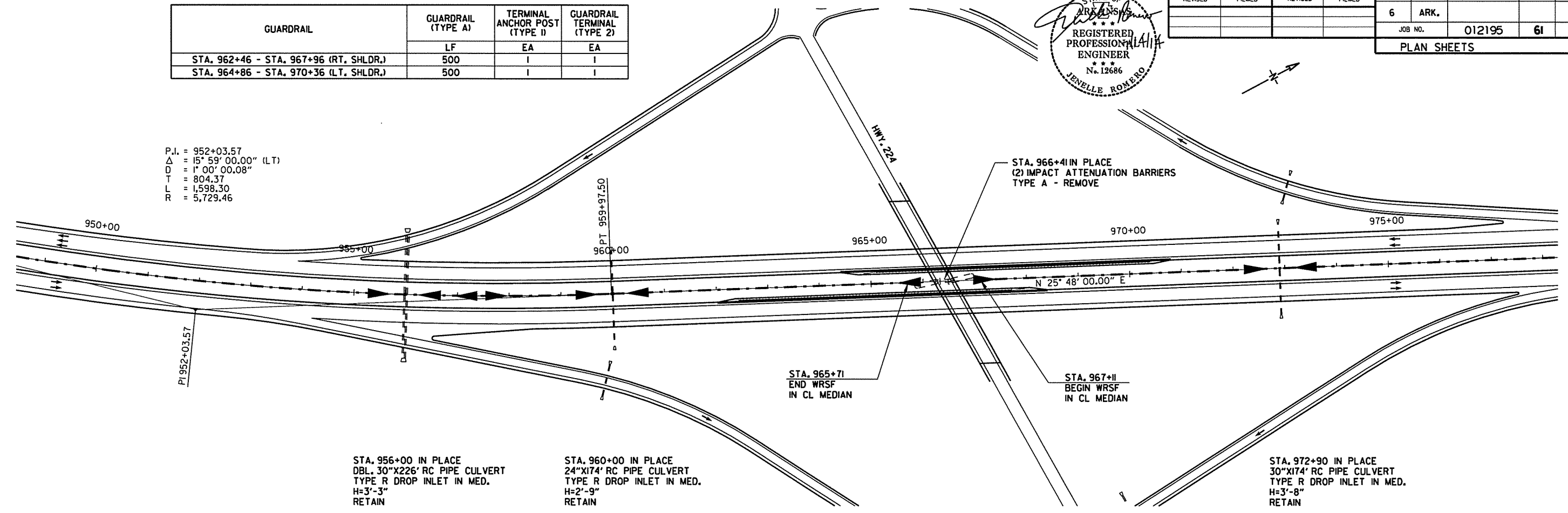
GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
STA. 962+46 - STA. 967+96 (RT. SHLDR.)	LF	EA	EA
STA. 964+86 - STA. 970+36 (LT. SHLDR.)	500	I	I
	500	I	I



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	61	96

PLAN SHEETS

P.I. = 952+03.57  
 $\Delta$  = 15° 59' 00.00" (LT)  
 $D$  = 1° 00' 00.08"  
 $T$  = 804.37  
 $L$  = 1,598.30  
 $R$  = 5,729.46



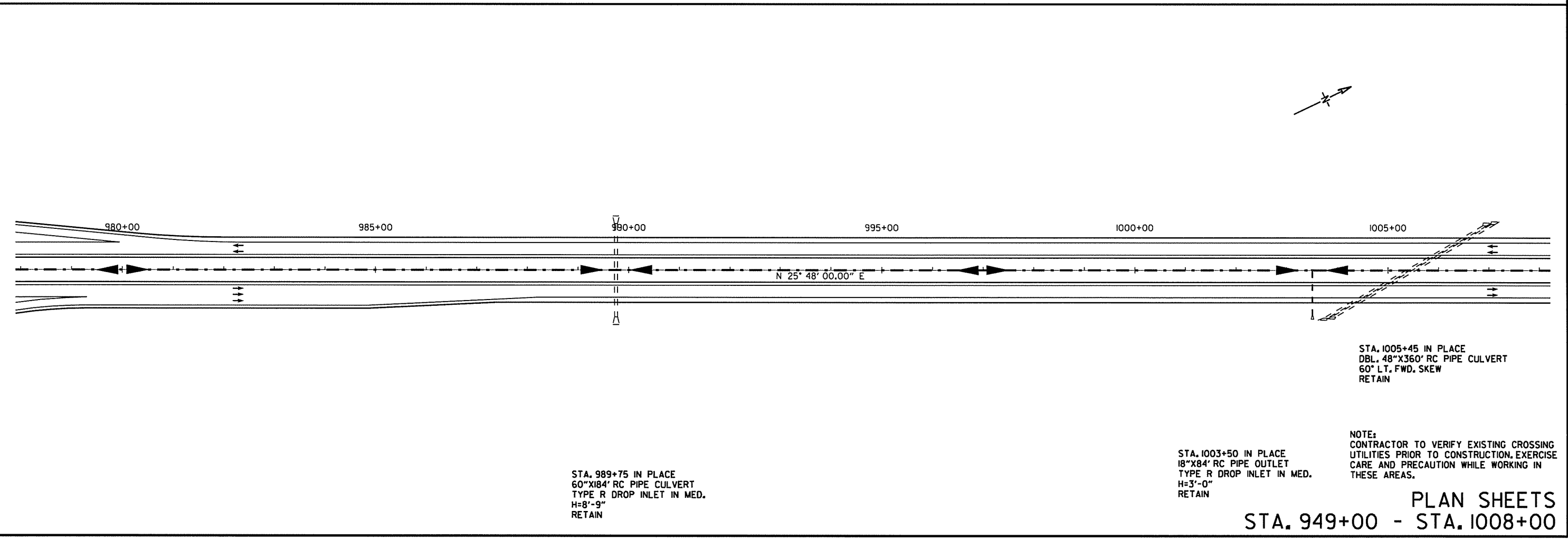
STA. 956+00 IN PLACE  
 DBL. 30"X226' RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=3'-3"  
 RETAIN

STA. 960+00 IN PLACE  
 24"X174' RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=2'-9"  
 RETAIN

STA. 965+71  
 END WRSF  
 IN CL MEDIAN

STA. 967+11  
 BEGIN WRSF  
 IN CL MEDIAN

STA. 972+90 IN PLACE  
 30"X174' RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=3'-8"  
 RETAIN



STA. 989+75 IN PLACE  
 60"X184' RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=8'-9"  
 RETAIN

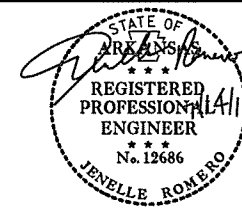
STA. 1003+50 IN PLACE  
 18"X84' RC PIPE OUTLET  
 TYPE R DROP INLET IN MED.  
 H=3'-0"  
 RETAIN

STA. 1005+45 IN PLACE  
 DBL. 48"X360' RC PIPE CULVERT  
 60° LT. FWD. SKEW  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

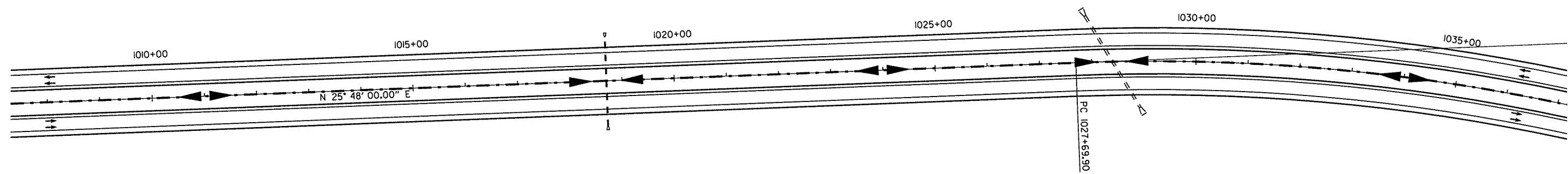
PLAN SHEETS  
 STA. 949+00 - STA. 1008+00

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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
				6	ARK.			
				JOB NO.	012195	62	96	

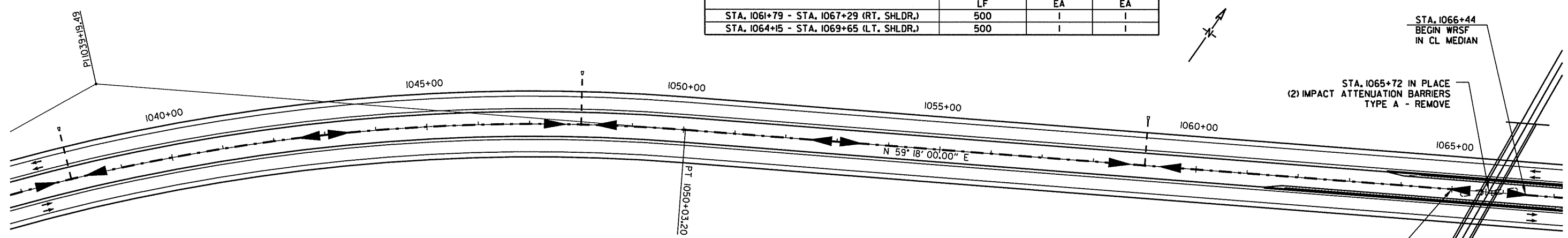
PLAN SHEETS



STA. 1018+70 IN PLACE  
24"X170' RC PIPE CULVERT  
TYPE R DROP INLET IN MED.  
H=2'-10"  
RETAIN

STA. 1028+40 IN PLACE  
48"X204' RC PIPE CULVERT  
30° RT. FWD. SKEW  
TYPE R DROP INLET IN MED.  
H=6'-1"  
RETAIN

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 1061+79 - STA. 1067+29 (RT. SHLDR.)	500	I	I
STA. 1064+15 - STA. 1069+65 (LT. SHLDR.)	500	I	I



STA. 1038+00 IN PLACE  
18"X96' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=5'-2"  
RETAIN

P.I. = 1039+19.49  
Δ = 33° 30' 00.00" (RT)  
D = 1' 30' 00.08"  
T = 1,149.59  
L = 2,233.30  
R = 3,819.66

STA. 1048+00 IN PLACE  
18"X94' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=4'-8"  
RETAIN

STA. 1059+00 IN PLACE  
18"X86' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-10"  
RETAIN

STA. 1066+44  
BEGIN WRSF  
IN CL MEDIAN

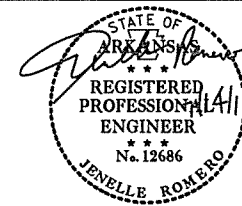
STA. 1065+72 IN PLACE  
(2) IMPACT ATTENUATION BARRIERS  
TYPE A - REMOVE

STA. 1065+00  
END WRSF  
IN CL MEDIAN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

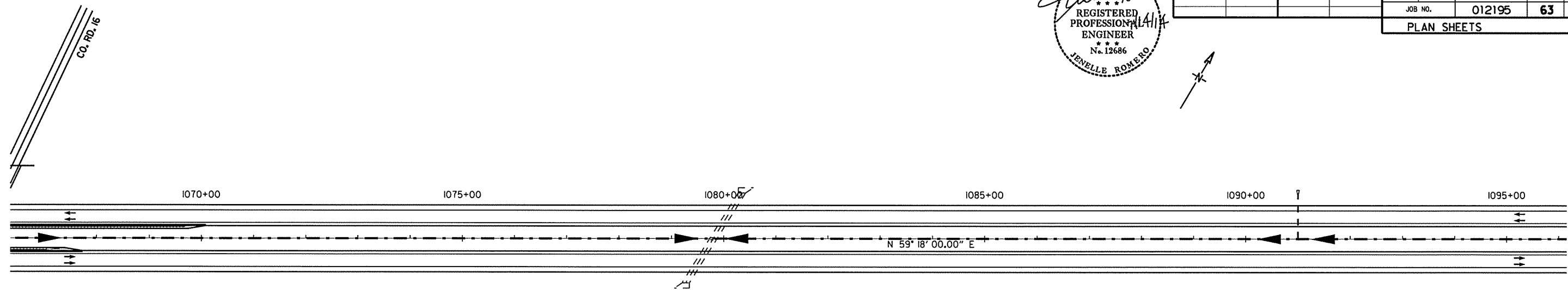
PLAN SHEETS  
STA. 1008+00 - STA. 1067+00

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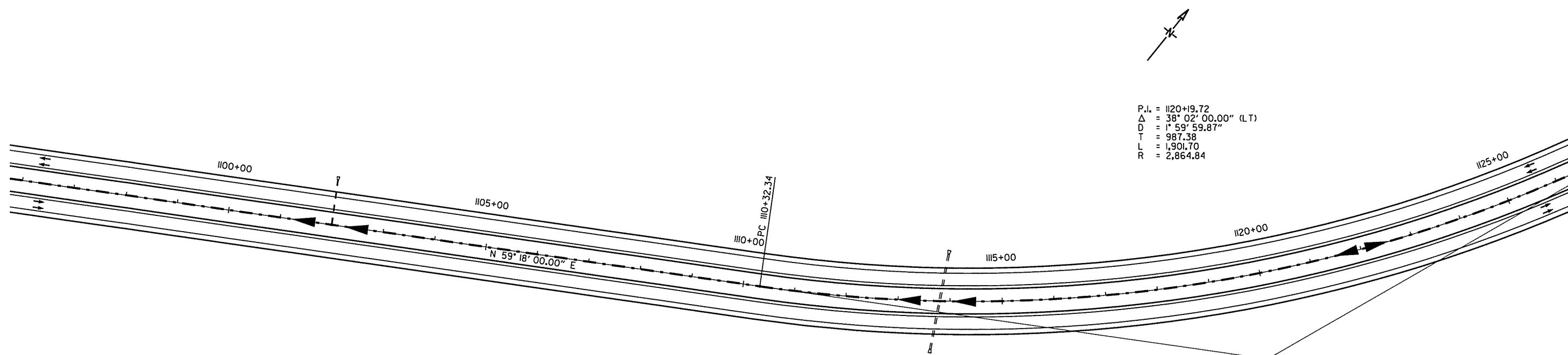
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	63	96	

PLAN SHEETS



STA. 1079+80 IN PLACE  
 DBL. 6'X4'X203' RC BOX CULVERT  
 32° LT. FWD. SKEW  
 TYPE T DROP INLET IN MED.  
 H=0'-7"  
 RETAIN

STA. 1091+00 IN PLACE  
 18"X84' RC PIPE OUTLET  
 TYPE R DROP INLET IN MED.  
 H=2'-9"  
 RETAIN



P.I. = 1120+19.72  
 $\Delta$  = 38° 02' 00.00" (LT)  
 D = 1° 59' 59.87"  
 T = 987.38  
 L = 1,901.70  
 R = 2,864.84

STA. 1102+00 IN PLACE  
 18"X84' RC PIPE OUTLET  
 TYPE R DROP INLET IN MED.  
 H=2'-9"  
 RETAIN

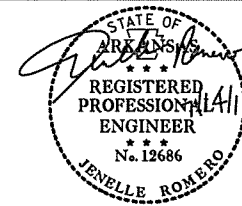
STA. 1113+80 IN PLACE  
 36"X186' RC PIPE CULVERT  
 10° LT. FWD. SKEW  
 TYPE R DROP INLET IN MED.  
 H=5'-6"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 1067+00 - STA. 1126+00

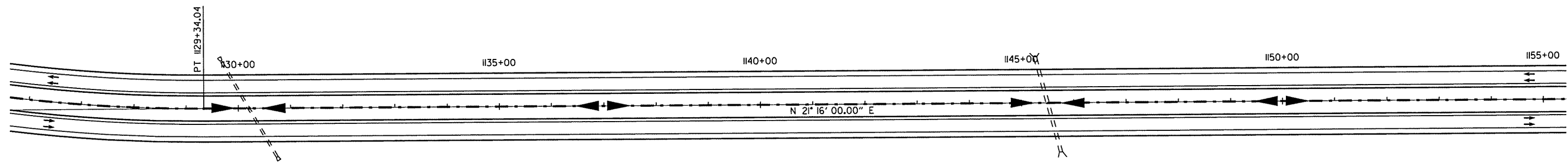
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	64	96	

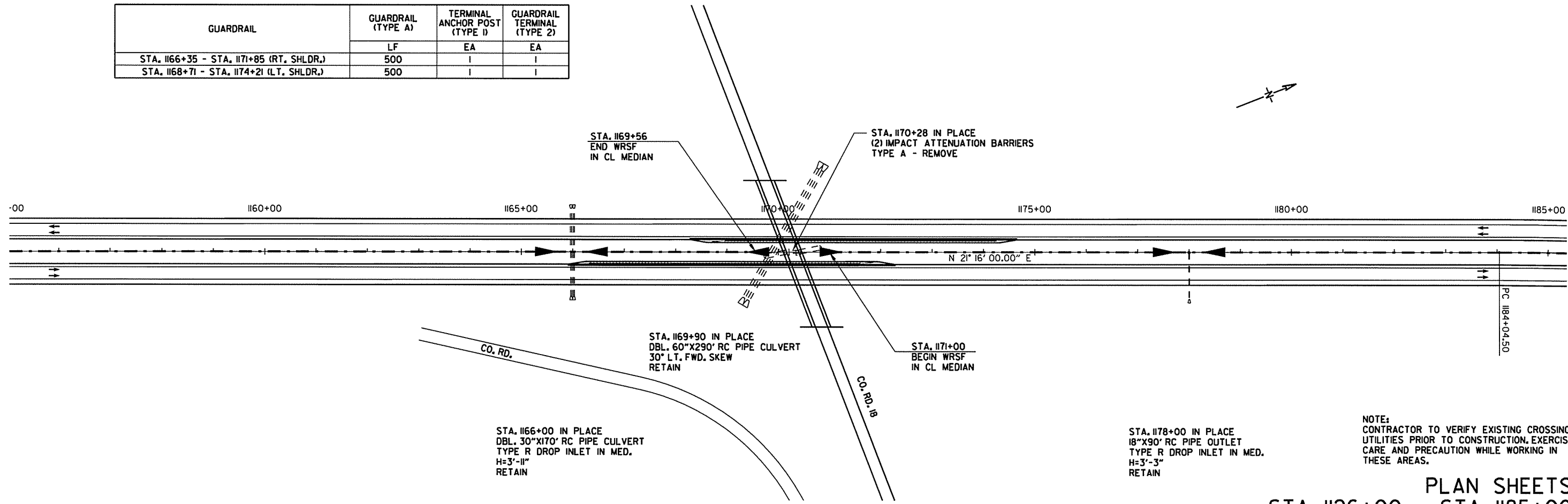
PLAN SHEETS



STA. 1130+20 IN PLACE  
48"X212' RC PIPE CULVERT  
30° RT. FWD. SKEW  
TYPE R DROP INLET IN MED.  
H=7'-9"  
RETAIN

STA. 1145+50 IN PLACE  
6'X8'X188' RC BOX CULVERT  
15° RT. FWD. SKEW  
TYPE T DROP INLET IN MED.  
H=2'-2"  
RETAIN

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
STA. 1166+35 - STA. 1171+85 (RT. SHLDR.)	LF	EA	EA
STA. 1168+71 - STA. 1174+21 (LT. SHLDR.)	500	I	I



STA. 1169+56  
END WRSF  
IN CL MEDIAN

STA. 1170+28 IN PLACE  
(2) IMPACT ATTENUATION BARRIERS  
TYPE A - REMOVE

STA. 1169+90 IN PLACE  
DBL. 60"X290' RC PIPE CULVERT  
30° LT. FWD. SKEW  
RETAIN

STA. 1171+00  
BEGIN WRSF  
IN CL MEDIAN

STA. 1166+00 IN PLACE  
DBL. 30"X170' RC PIPE CULVERT  
TYPE R DROP INLET IN MED.  
H=3'-11"  
RETAIN

STA. 1178+00 IN PLACE  
18"X90' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-3"  
RETAIN

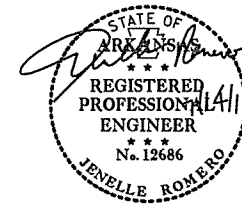
NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 1126+00 - STA. 1185+00

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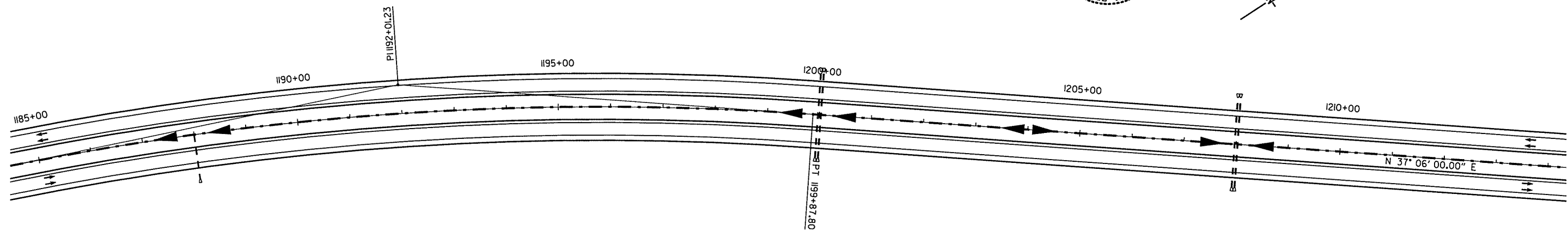
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	65	96	

PLAN SHEETS

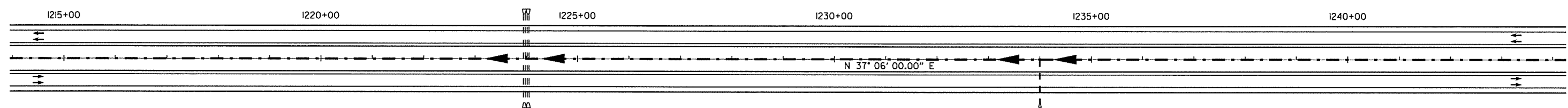


P.I. = 1192+01.23  
 $\Delta$  = 15° 50' 00.00" (RT)  
 D = 1° 00' 00.08"  
 T = 796.73  
 L = 1,583.30  
 R = 5,729.46

STA. 1188+00 IN PLACE  
 18"X84" RC PIPE OUTLET  
 TYPE R DROP INLET IN MED.  
 H=2'-5"  
 RETAIN

STA. 1200+00 IN PLACE  
 DBL. 24"X164" RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=2'-7"  
 RETAIN

STA. 1208+00 IN PLACE  
 DBL. 24"X172" RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=3'-0"  
 RETAIN



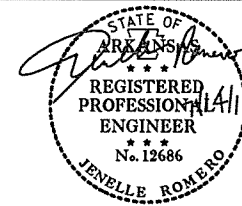
STA. 1224+00 IN PLACE  
 DBL. 42"X172" RC PIPE CULVERT  
 TYPE R DROP INLET IN MED.  
 H=4'-7"  
 RETAIN

STA. 1234+00 IN PLACE  
 18"X84" RC PIPE OUTLET  
 TYPE R DROP INLET IN MED.  
 H=2'-8"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

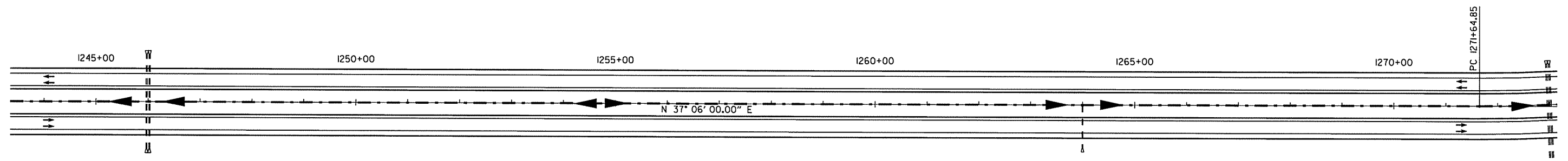
PLAN SHEETS  
 STA. 1185+00 - STA. 1244+00

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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
				6	ARK.			
						JOB NO. 012195	66	96

PLAN SHEETS

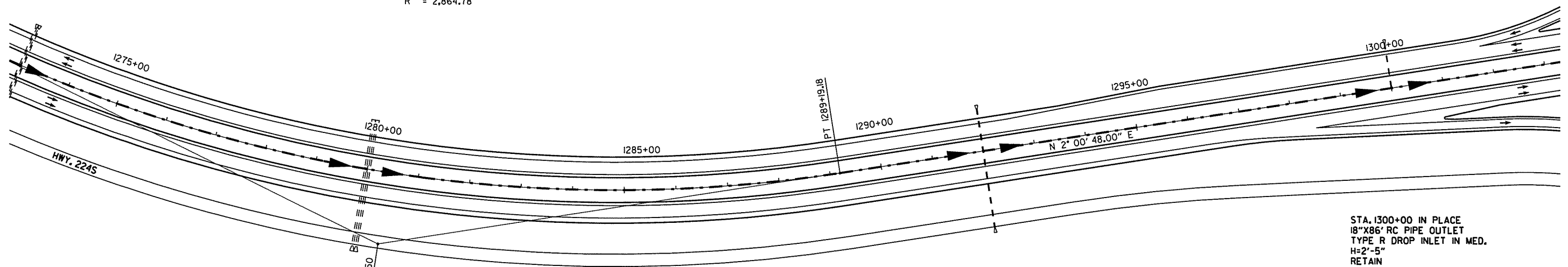


STA. 1246+00 IN PLACE  
 DBL. 24\"/>

STA. 1264+00 IN PLACE  
 18\"/>

STA. 1273+00 IN PLACE  
 DBL. 30\"/>

P.I. = 1280+70.50  
 $\Delta$  = 35° 05' 12.00\"/>



STA. 1280+00 IN PLACE  
 DBL. 42\"/>

STA. 1292+00 IN PLACE  
 24\"/>

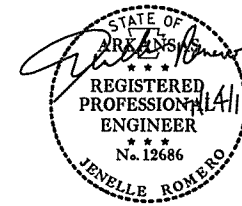
STA. 1300+00 IN PLACE  
 18\"/>

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 1244+00 - STA. 1303+00

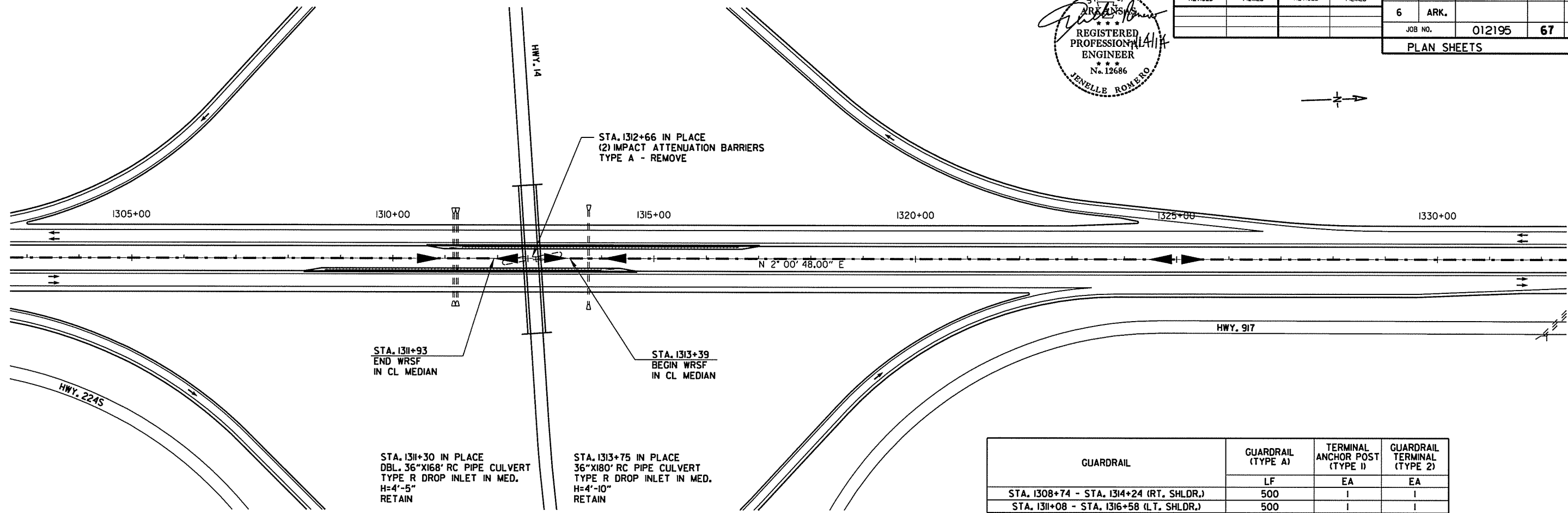
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	67	96	

PLAN SHEETS



STA. 1312+66 IN PLACE  
(2) IMPACT ATTENUATION BARRIERS  
TYPE A - REMOVE

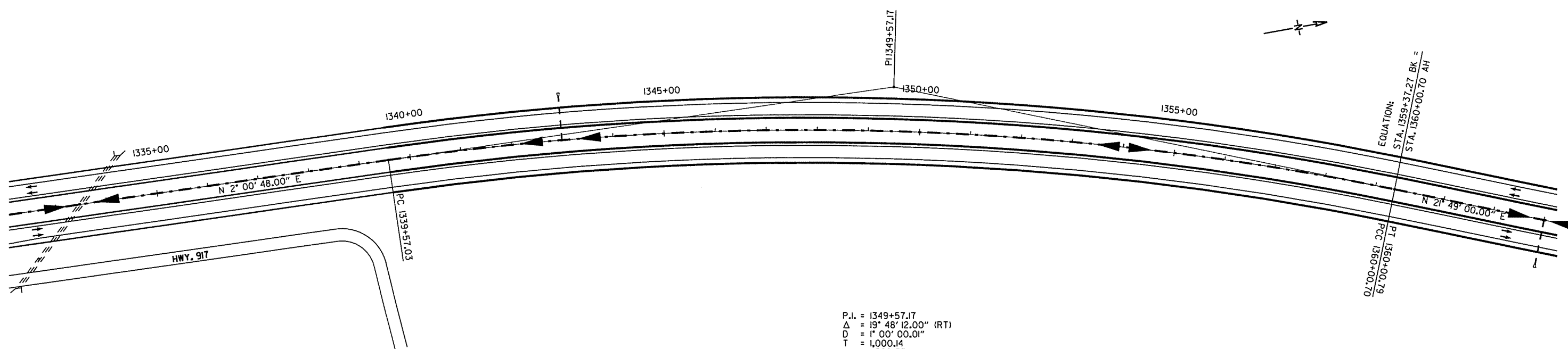
STA. 1311+93  
END WRSF  
IN CL MEDIAN

STA. 1313+39  
BEGIN WRSF  
IN CL MEDIAN

STA. 1311+30 IN PLACE  
DBL. 36"X168" RC PIPE CULVERT  
TYPE R DROP INLET IN MED.  
H=4'-5"  
RETAIN

STA. 1313+75 IN PLACE  
36"X180" RC PIPE CULVERT  
TYPE R DROP INLET IN MED.  
H=4'-10"  
RETAIN

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 1308+74 - STA. 1314+24 (RT. SHLDR.)	500	1	1
STA. 1311+08 - STA. 1316+58 (LT. SHLDR.)	500	1	1



P.I. = 1349+57.17  
 $\Delta$  = 19° 48' 12.00" (RT)  
 D = 1' 00' 00.01"  
 T = 1,000.14  
 L = 1,980.33  
 R = 5,729.57

STA. 1333+50 IN PLACE  
DBL. 4'X3'X324" RC BOX CULVERT  
45° LT. FWD. SKEW  
TYPE T DROP INLET IN MED.  
H=1'-1"  
RETAIN

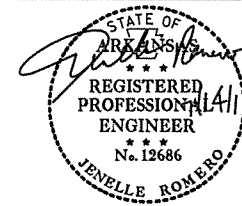
STA. 1343+00 IN PLACE  
18"X84" RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=2'-5"  
RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 1303+00 - STA. 1363+00

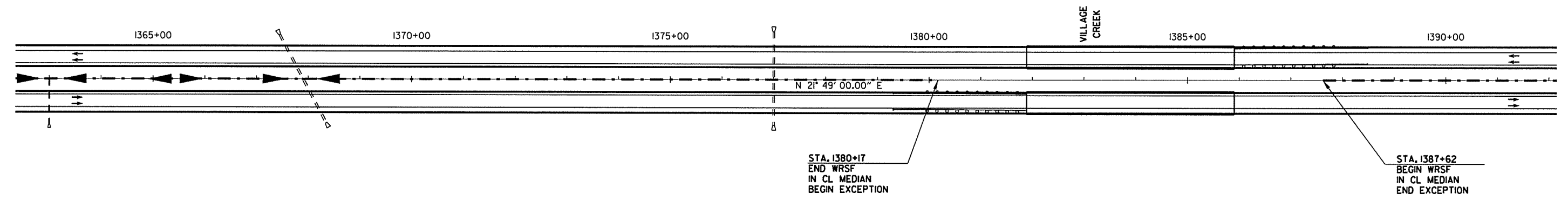
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	68	96	

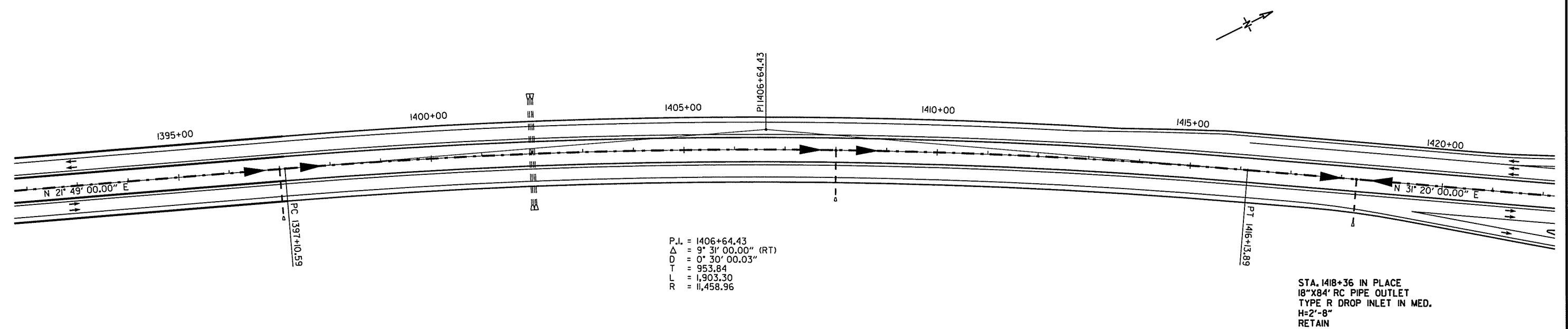
PLAN SHEETS



STA. 1363+00 IN PLACE  
18"X86' RC PIPE OUTLET  
TYPE R DROP INLET IN MED.  
H=3'-0"  
RETAIN

STA. 1367+90 IN PLACE  
42"X96' RC PIPE INLET  
42"X98' RC PIPE OUTLET  
28° RT. FWD. SKEW  
TYPE R DROP INLET IN MED.  
H=5'-8"  
RETAIN

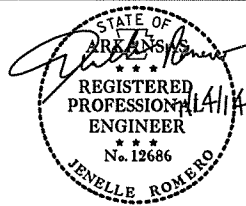
STA. 1377+00 IN PLACE  
36"X208' RC PIPE CULVERT  
RETAIN



NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING  
UTILITIES PRIOR TO CONSTRUCTION, EXERCISE  
CARE AND PRECAUTION WHILE WORKING IN  
THESE AREAS.

PLAN SHEETS  
STA. 1363+00 - STA. 1422+00

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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
				6	ARK.			
JOB NO. 012195							69	96

PLAN SHEETS

STA. 1432+98.03  
END SECTION 14  
LOG MILE 15.66  
BEGIN SECTION 15  
LOG MILE 0.00

STA. 1435+75  
BEGIN WRSF  
IN CL MEDIAN  
END EXCEPTION

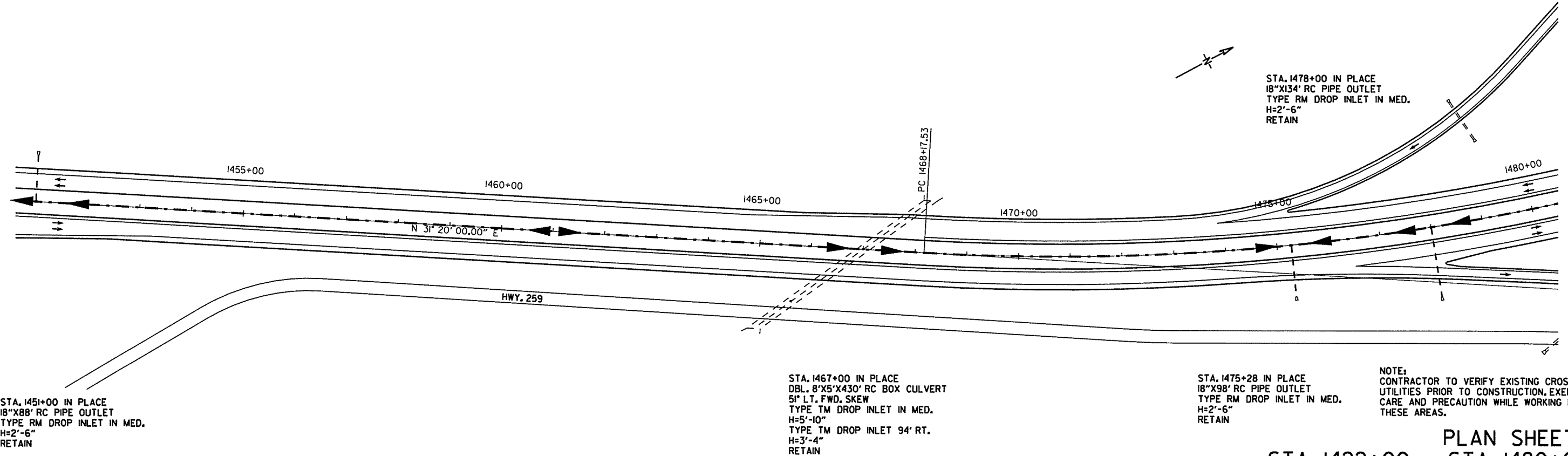
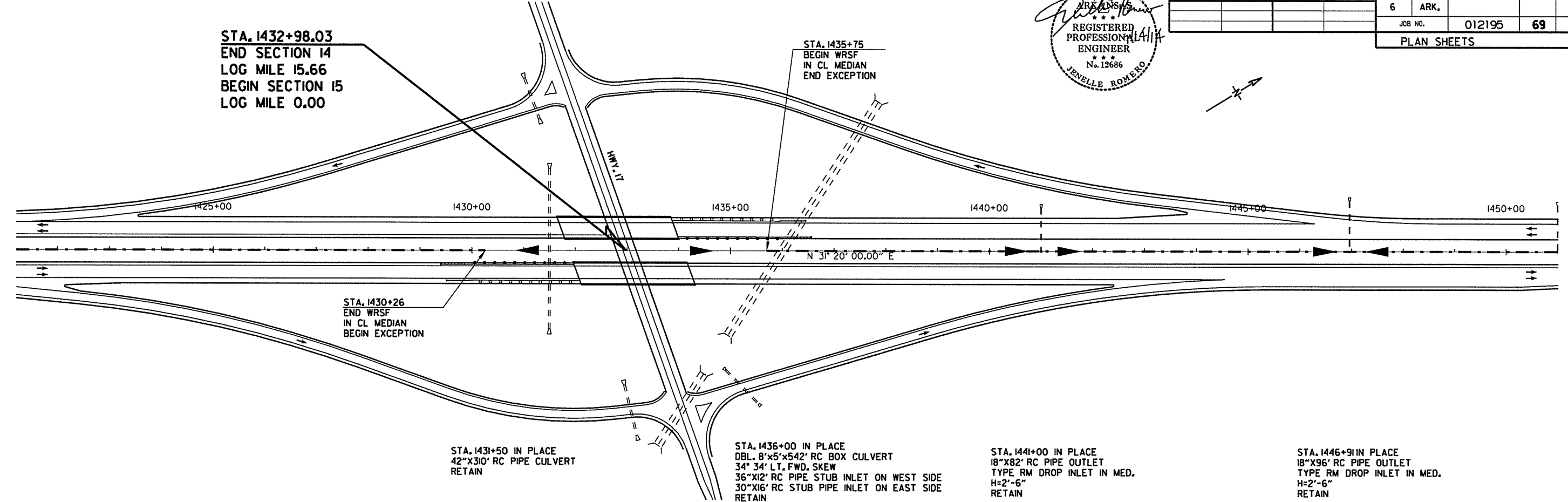
STA. 1430+26  
END WRSF  
IN CL MEDIAN  
BEGIN EXCEPTION

STA. 1431+50 IN PLACE  
42"X310' RC PIPE CULVERT  
RETAIN

STA. 1436+00 IN PLACE  
DBL. 8'X5'X542' RC BOX CULVERT  
34° 34' LT. FWD. SKEW  
36"X12' RC PIPE STUB INLET ON WEST SIDE  
30"X16' RC STUB PIPE INLET ON EAST SIDE  
RETAIN

STA. 1441+00 IN PLACE  
18"X82' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-6"  
RETAIN

STA. 1446+91 IN PLACE  
18"X96' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-6"  
RETAIN



STA. 1451+00 IN PLACE  
18"X88' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-6"  
RETAIN

STA. 1467+00 IN PLACE  
DBL. 8'X5'X430' RC BOX CULVERT  
51' LT. FWD. SKEW  
TYPE TM DROP INLET IN MED.  
H=5'-10"  
TYPE TM DROP INLET 94' RT.  
H=3'-4"  
RETAIN

STA. 1475+28 IN PLACE  
18"X98' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-6"  
RETAIN

STA. 1478+00 IN PLACE  
18"X134' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-6"  
RETAIN

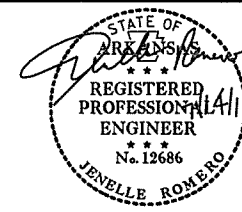
NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING  
UTILITIES PRIOR TO CONSTRUCTION, EXERCISE  
CARE AND PRECAUTION WHILE WORKING IN  
THESE AREAS.

PLAN SHEETS  
STA. 1422+00 - STA. 1480+00

7/11/2014

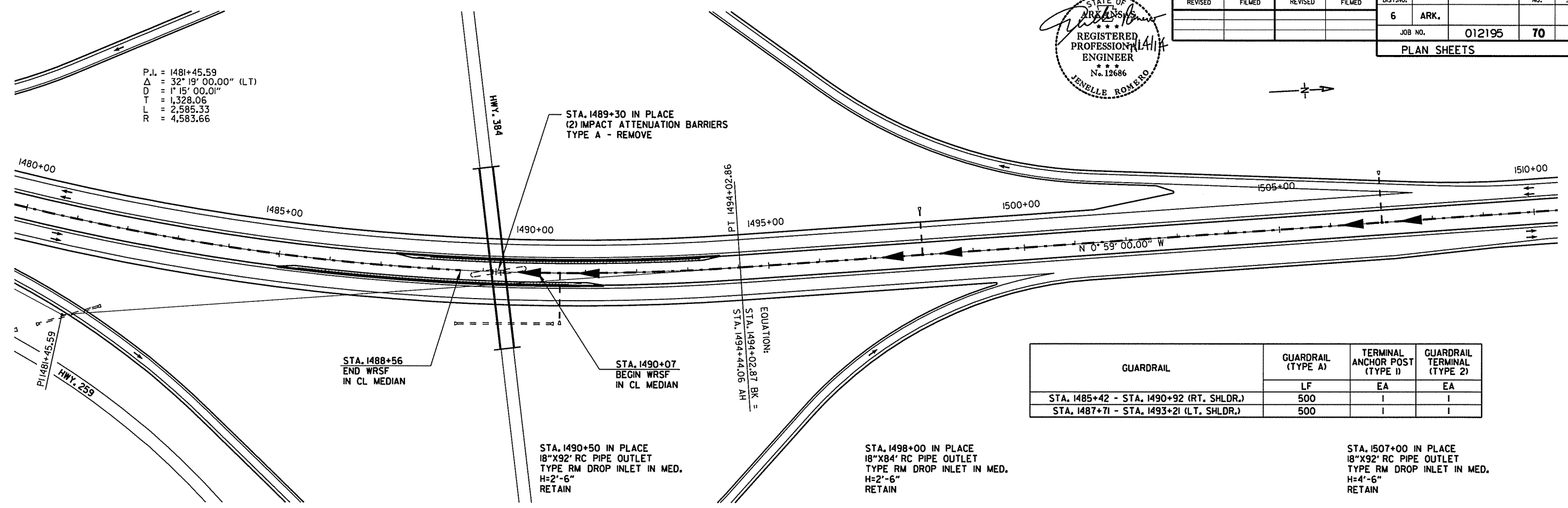
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	70	96
				JOB NO.		012195	70	96

PLAN SHEETS



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 1485+42 - STA. 1490+92 (RT. SHLDR.)	500	I	I
STA. 1487+71 - STA. 1493+21 (LT. SHLDR.)	500	I	I

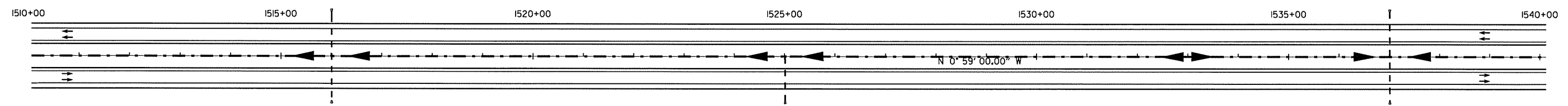
STA. 1488+56  
END WRSF  
IN CL MEDIAN

STA. 1490+07  
BEGIN WRSF  
IN CL MEDIAN

STA. 1490+50 IN PLACE  
18"X92' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-6" RETAIN

STA. 1498+00 IN PLACE  
18"X84' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-6" RETAIN

STA. 1507+00 IN PLACE  
18"X92' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-6" RETAIN



STA. 1516+00 IN PLACE  
18"X88' RC PIPE INLET  
18"X88' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-9" RETAIN

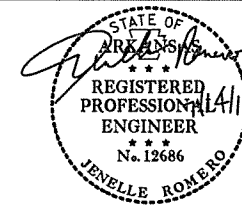
STA. 1525+00 IN PLACE  
18"X86' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-0" RETAIN

STA. 1537+00 IN PLACE  
18"X88' RC PIPE INLET  
18"X88' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-7" RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

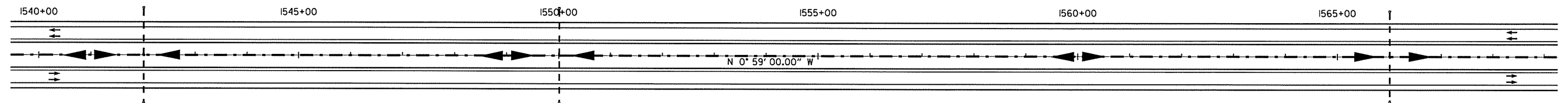
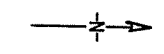
PLAN SHEETS  
STA. 1480+00 - STA. 1540+00

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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
				6	ARK.			
				JOB NO.	012195		71	96

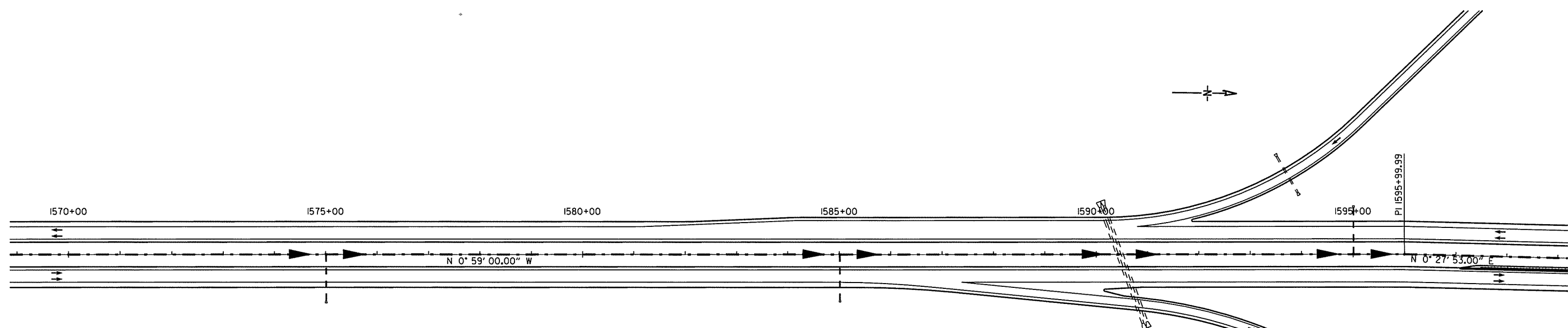
PLAN SHEETS



STA. 1542+00 IN PLACE  
 18"X88' RC PIPE INLET  
 18"X88' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=5'-0"  
 RETAIN

STA. 1550+00 IN PLACE  
 18"X88' RC PIPE INLET  
 18"X88' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=5'-1"  
 RETAIN

STA. 1566+00 IN PLACE  
 18"X84' RC PIPE INLET  
 18"X84' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=3'-2"  
 RETAIN



STA. 1575+00 IN PLACE  
 18"X88' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=3'-3"  
 RETAIN

STA. 1585+00 IN PLACE  
 18"X86' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-11"  
 RETAIN

STA. 1590+45 IN PLACE  
 DBL. 48"X240' RC PIPE CULVERT  
 20° RT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 H=7'-8"  
 RETAIN

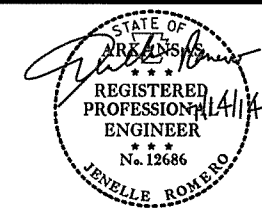
STA. 1595+00 IN PLACE  
 18"X88' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=3'-9"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 1540+00 - STA. 1599+00

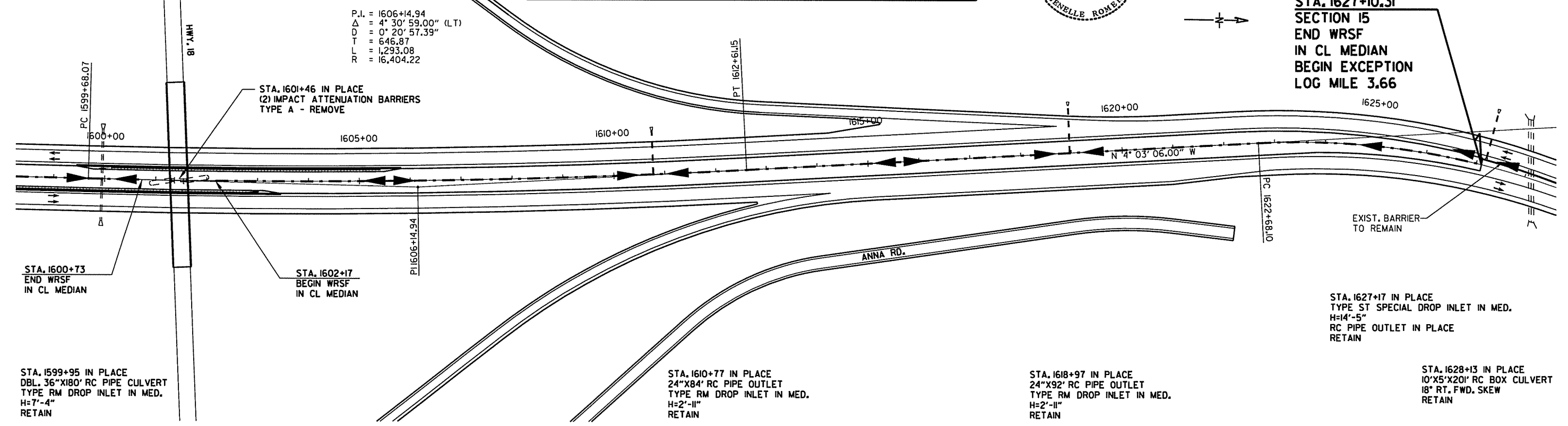
7/11/2014 11:20:07 AM P:\100038109\CADD\PAV\HW167-22.dgn

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	72	96



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE II)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 1597+52 - STA. 1603+02 (RT. SHLDR.)	500	1	1
STA. 1599+88 - STA. 1605+38 (LT. SHLDR.)	500	1	1

STA. 1627+10.31  
SECTION 15  
END WRSF  
IN CL MEDIAN  
BEGIN EXCEPTION  
LOG MILE 3.66



STA. 1599+95 IN PLACE  
DBL. 36"X180' RC PIPE CULVERT  
TYPE RM DROP INLET IN MED.  
H=7'-4"  
RETAIN

STA. 1600+73  
END WRSF  
IN CL MEDIAN

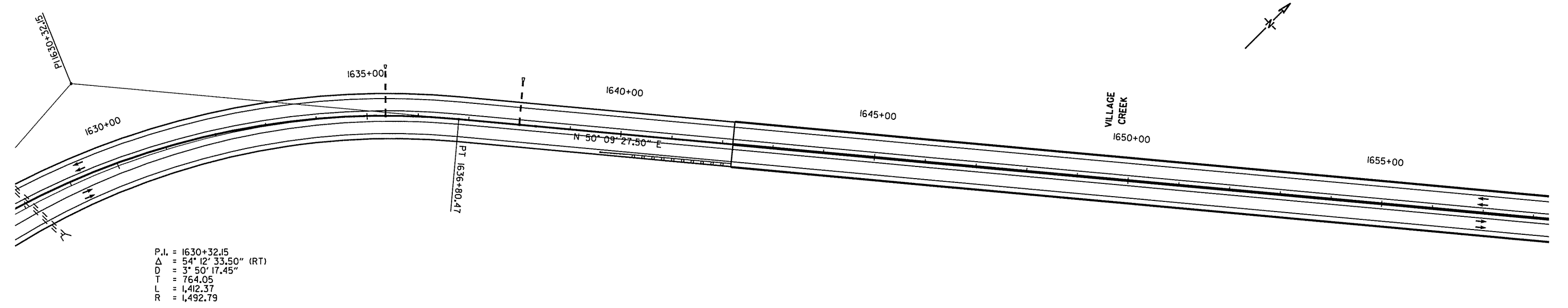
STA. 1602+17  
BEGIN WRSF  
IN CL MEDIAN

STA. 1610+77 IN PLACE  
24"X84' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

STA. 1618+97 IN PLACE  
24"X92' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

STA. 1627+17 IN PLACE  
TYPE ST SPECIAL DROP INLET IN MED.  
H=14'-5"  
RC PIPE OUTLET IN PLACE  
RETAIN

STA. 1628+13 IN PLACE  
10'X5'X20' RC BOX CULVERT  
18° RT. FWD. SKEW  
RETAIN



P.I. = 1630+32.15  
Δ = 54° 12' 33.50" (RT)  
D = 3° 50' 17.45"  
T = 764.05  
L = 1,412.37  
R = 1,492.79

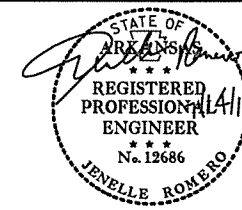
STA. 1635+36 IN PLACE  
TYPE ST SPECIAL DROP INLET IN MED.  
H=13'-9"  
RC PIPE OUTLET IN PLACE  
RETAIN

STA. 1637+99 IN PLACE  
TYPE ST SPECIAL DROP INLET IN MED.  
H=12'-6"  
RC PIPE OUTLET IN PLACE  
RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING  
UTILITIES PRIOR TO CONSTRUCTION. EXERCISE  
CARE AND PRECAUTION WHILE WORKING IN  
THESE AREAS.

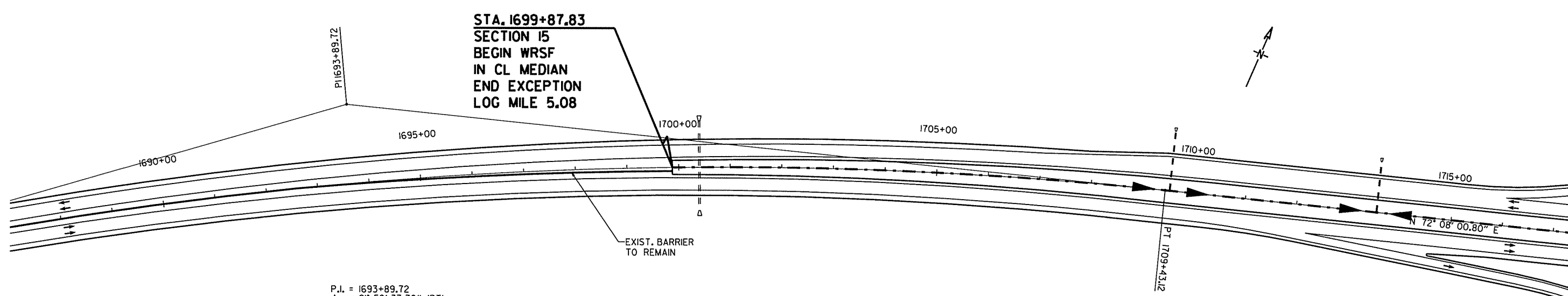
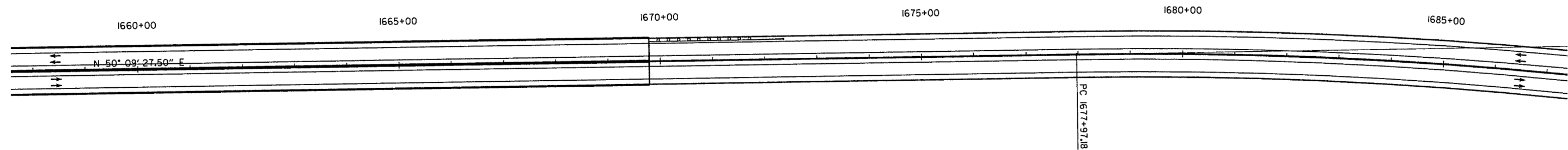
PLAN SHEETS  
STA. 1599+00 - STA. 1658+00





DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							012195	73	96

PLAN SHEETS



P.I. = 1693+89.12  
 $\Delta$  = 21° 58' 33.30" (RT)  
 D = 0° 41' 54.77"  
 T = 1,592.54  
 L = 3,145.94  
 R = 8,202.12

STA. 1700+40 IN PLACE  
 42"X29"X174' RC ARCH PIPE CULVERT  
 RETAIN

STA. 1709+52 IN PLACE  
 24"X12' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=5'-3"  
 RETAIN

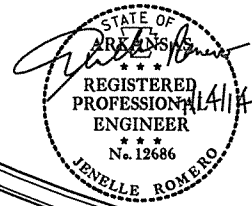
STA. 1713+55 IN PLACE  
 24"X98' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=5'-3"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 1658+00 - STA. 1717+00

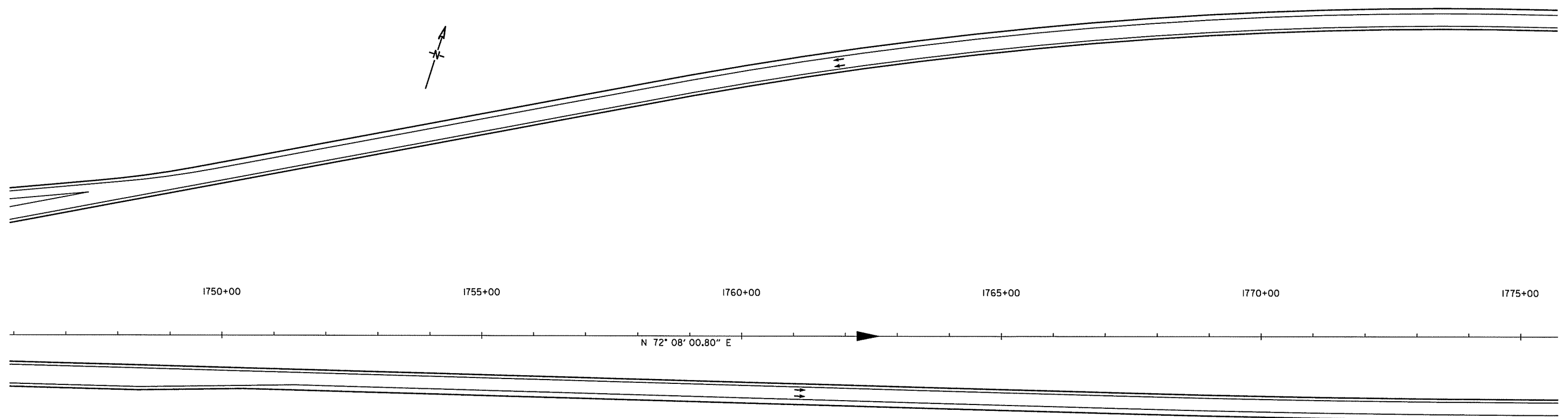
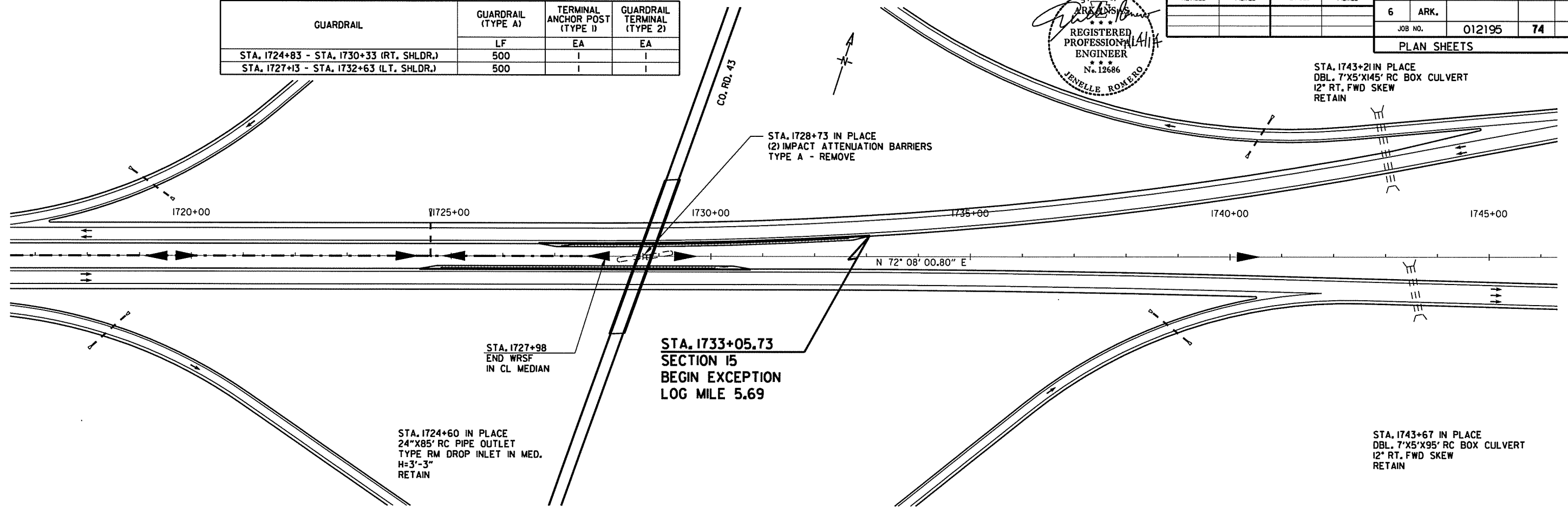
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GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 1724+83 - STA. 1730+33 (RT. SHLDR.)	500	1	1
STA. 1727+13 - STA. 1732+63 (LT. SHLDR.)	500	1	1



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	74	96

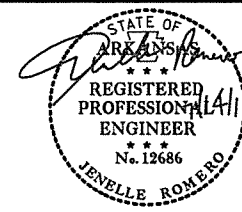
PLAN SHEETS



NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

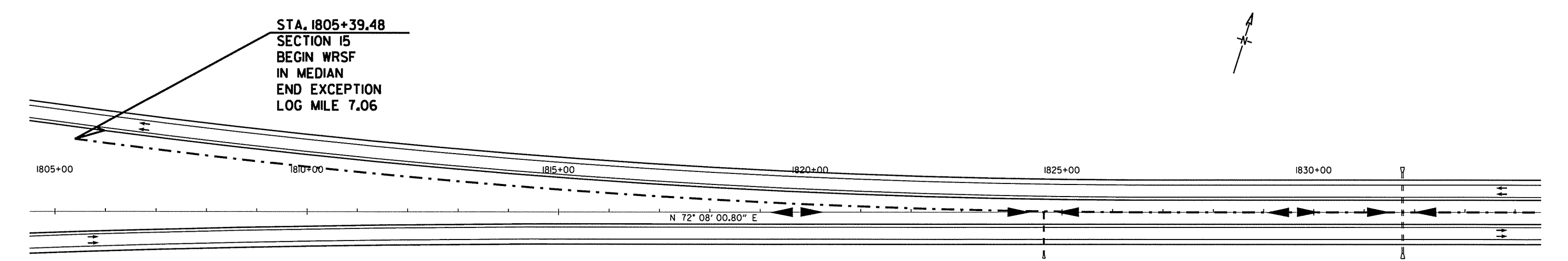
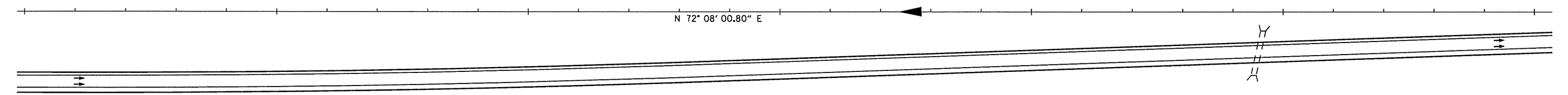
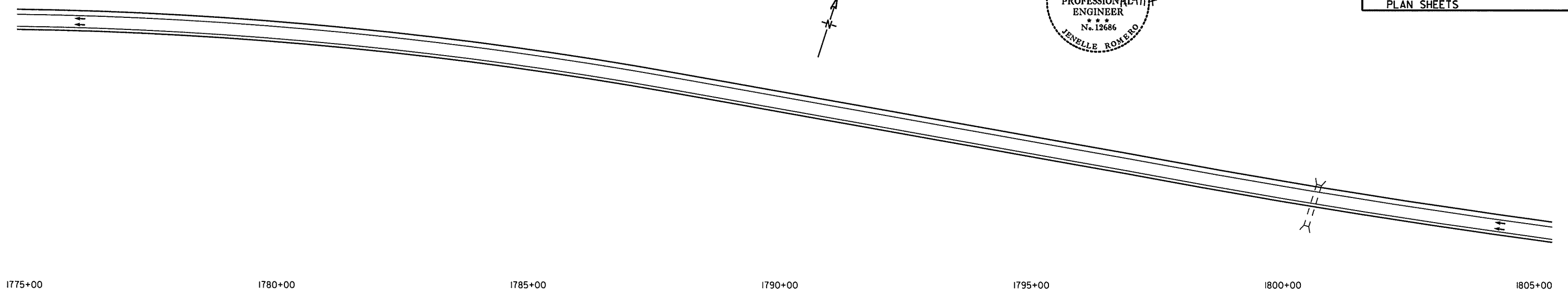
PLAN SHEETS  
STA. 1717+00 - STA. 1775+00

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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
				6	ARK.			
				JOB NO.	012195	75	96	

PLAN SHEETS



STA. 1805+39.48  
SECTION 15  
BEGIN WRSF  
IN MEDIAN  
END EXCEPTION  
LOG MILE 7.06

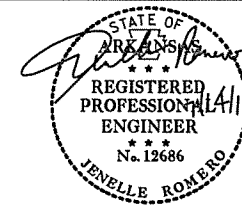
STA. 1831+76 IN PLACE  
36"X162' RC PIPE CULVERT  
TYPE RM DROP INLET IN MED.  
H=3'-11"  
RETAIN

STA. 1824+64 IN PLACE  
24"X83' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

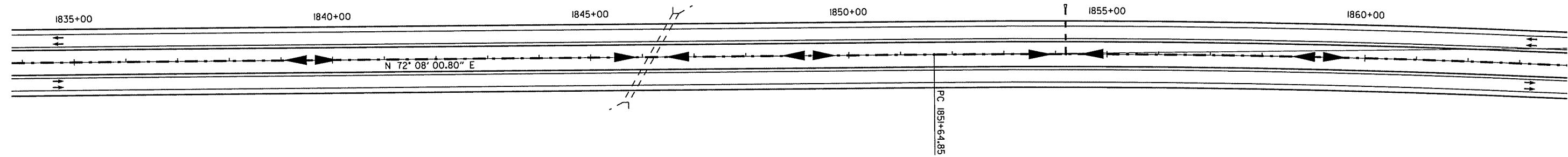
PLAN SHEETS  
STA. 1775+00 - STA. 1834+00

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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
				6	ARK.			
				JOB NO.	012195	76	96	

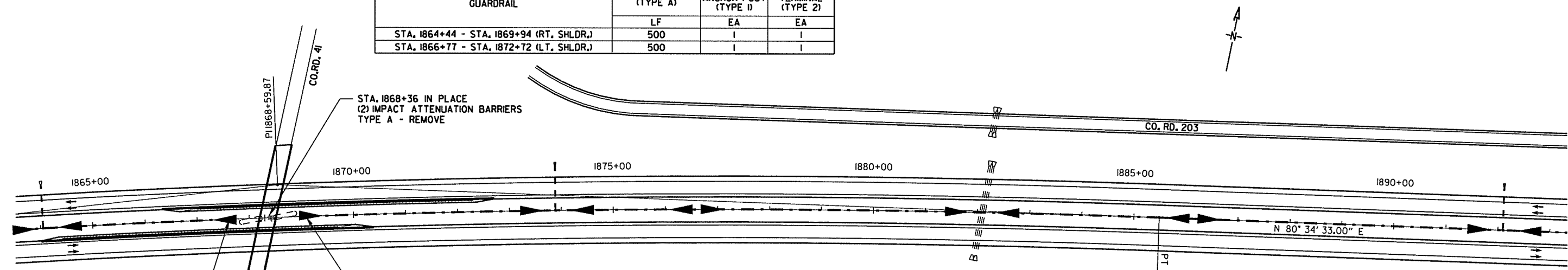
PLAN SHEETS



STA. 1846+18 IN PLACE  
10'X5'X197' RC BOX CULVERT  
30° LT. FWD. SKEW  
TYPE TM DROP INLET IN MED.  
H=0'-8"  
RETAIN

STA. 1854+20 IN PLACE  
24"X87' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-11"  
RETAIN

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
	STA. 1864+44 - STA. 1869+94 (RT. SHLDR.)	LF	EA
STA. 1866+77 - STA. 1872+72 (LT. SHLDR.)	500	I	I
	500	I	I



STA. 1868+36 IN PLACE  
(2) IMPACT ATTENUATION BARRIERS  
TYPE A - REMOVE

P.I. = 1868+59.87  
Δ = 8° 26' 32.20" (RT)  
D = 0' 14' 58.14"  
T = 1,695.03  
L = 3,383.92  
R = 22,965.88

STA. 1867+62  
END WRSF  
IN CL MEDIAN

STA. 1869+09  
BEGIN WRSF  
IN CL MEDIAN

STA. 1864+05 IN PLACE  
24"X82' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

STA. 1873+89 IN PLACE  
24"X85' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-11"  
RETAIN

STA. 1882+09 IN PLACE  
DBL. 42"X175' RC PIPE CULVERT  
10° LT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
OVER WEST PIPE  
H=5'-6"  
RETAIN

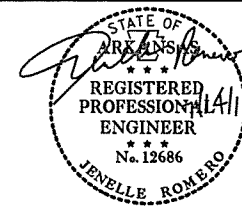
STA. 1892+10 IN PLACE  
24"X82' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-10"  
RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 1834+00 - STA. 1893+00

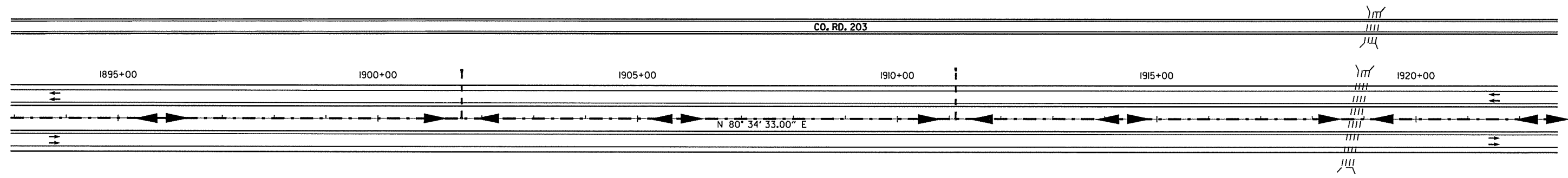
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	77	96	

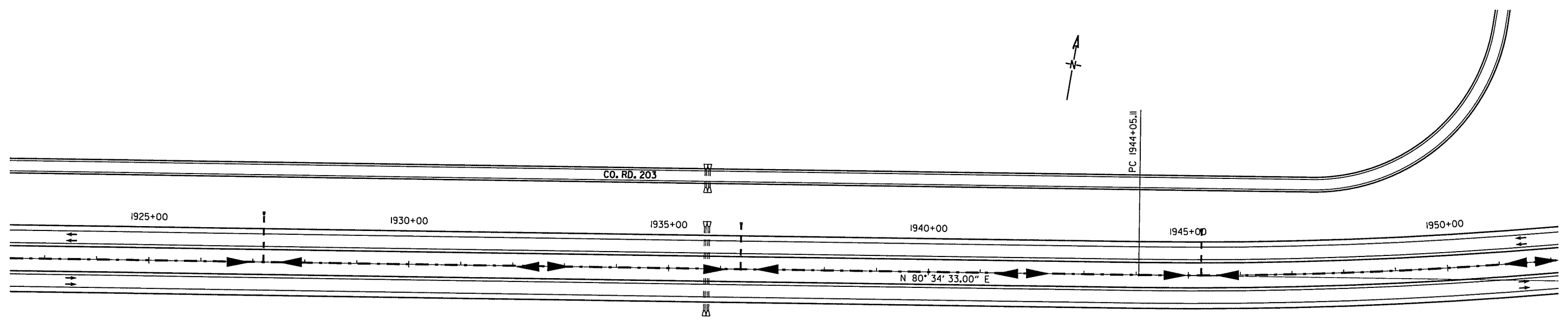
PLAN SHEETS



STA. 1901+61 IN PLACE  
24"X86' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-11"  
RETAIN

STA. 1911+12 IN PLACE  
24"X91' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=5'-5"  
RETAIN

STA. 1918+84 IN PLACE  
TRIPLE 7'X4'X190' RC BOX CULVERT  
10' LT. FWD SKEW  
TYPE TM DROP INLET IN MED.  
H=3'-2"  
RETAIN



STA. 1927+20 IN PLACE  
24"X89' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-11"  
RETAIN

STA. 1935+73 IN PLACE  
DBL. 36"X162' RC PIPE CULVERT  
RETAIN

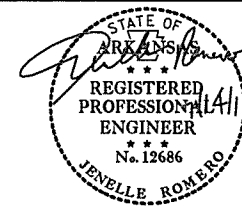
STA. 1936+39 IN PLACE  
24"X82' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

STA. 1945+25 IN PLACE  
24"X82' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

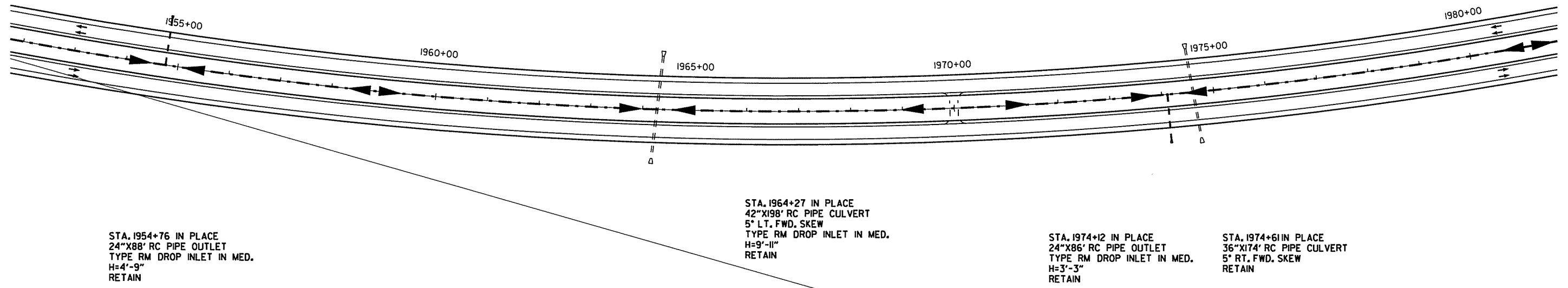
NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 1893+00 - STA. 1952+00

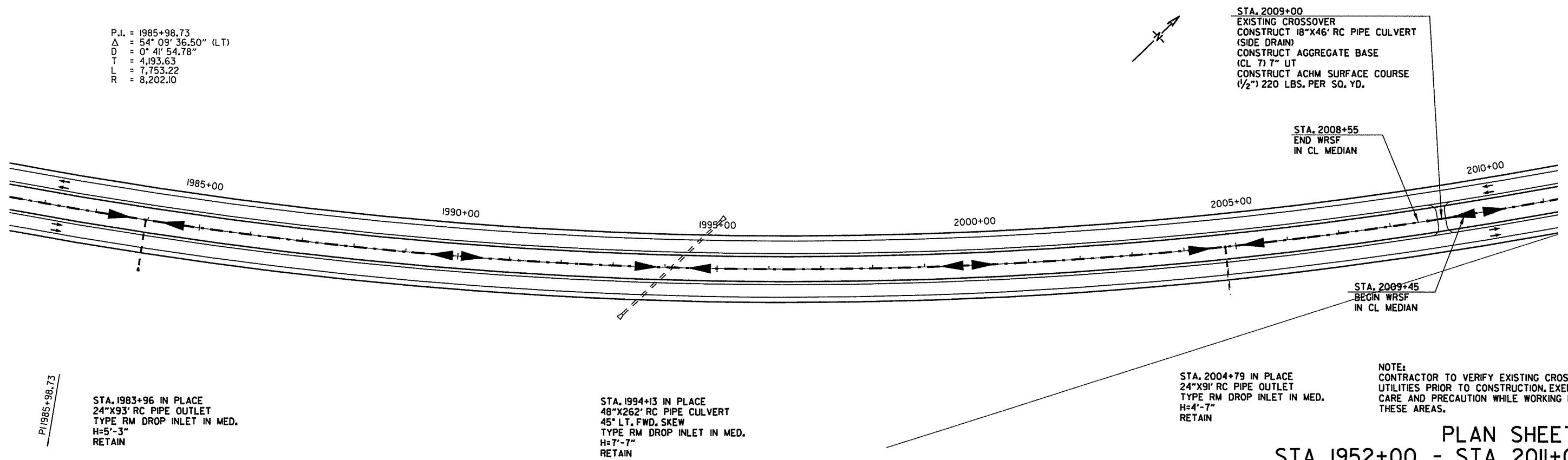
7/11/2014 11:20:10 AM P:\10003809\CA00\PAV\HW167-28.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	78	96
				JOB NO.		012195	78	96
PLAN SHEETS								



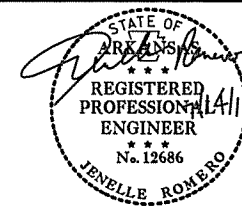
P.I. = 1985+98.73  
 $\Delta$  = 54° 09' 36.50" (LT)  
 $D$  = 0° 41' 54.78"  
 $T$  = 4,193.63  
 $L$  = 7,753.22  
 $R$  = 8,202.10



P|1985+98.73

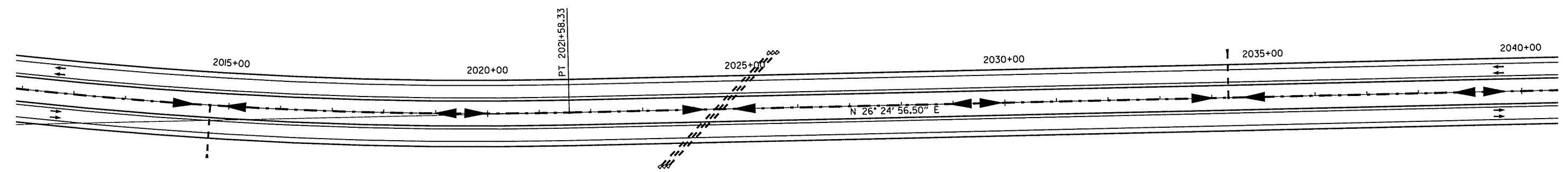
PLAN SHEETS  
 STA. 1952+00 - STA. 2011+00

7/11/2014 11:20:10 AM P:\100036103\CA00\PAV\HW\67-29.dgn



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012195	79	96	

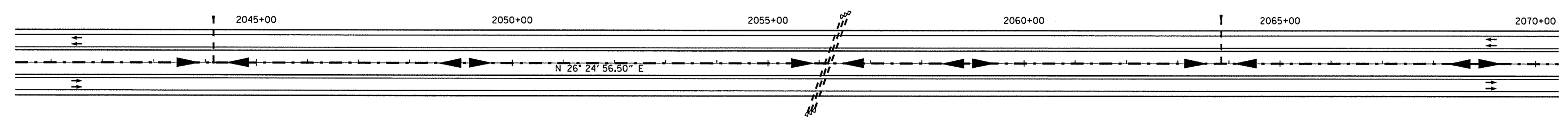
PLAN SHEETS



STA. 2014+64 IN PLACE  
24\"X94' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=5'-7"  
RETAIN

STA. 2024+48 IN PLACE  
TRIPLE 24\"X296' RC PIPE CULVERT  
45° LT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
H=7'-1"  
RETAIN

STA. 2034+32 IN PLACE  
24\"X86' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-1"  
RETAIN



STA. 2044+16 IN PLACE  
24\"X83' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

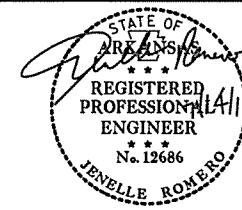
STA. 2056+17 IN PLACE  
TRIPLE 24\"X195' RC PIPE CULVERT  
20° LT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
H=6'-4"  
RETAIN

STA. 2063+85 IN PLACE  
24\"X87' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-7"  
RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

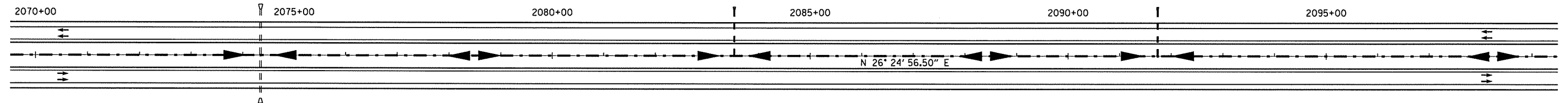
PLAN SHEETS  
STA. 2011+00 - STA. 2070+00

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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
				6	ARK.			
JOB NO. 012195							80	96

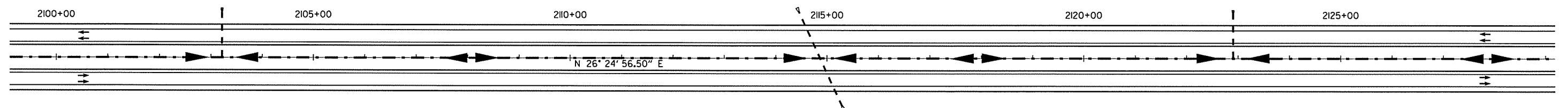
PLAN SHEETS



STA. 2074+35 IN PLACE  
 36"x172' RC PIPE CULVERT  
 TYPE RM DROP INLET IN MED.  
 H=5'-9"  
 RETAIN

STA. 2083+53 IN PLACE  
 24"x87' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=4'-3"  
 RETAIN

STA. 2091+74 IN PLACE  
 24"x87' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=4'-3"  
 RETAIN



STA. 2103+22 IN PLACE  
 24"x88' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=4'-7"  
 RETAIN

STA. 2114+86 IN PLACE  
 24"x203' RC PIPE CULVERT  
 25° RT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 H=5'-5"  
 RETAIN

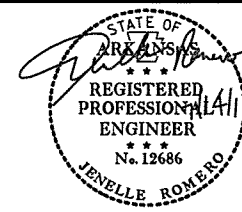
STA. 2122+90 IN PLACE  
 24"x86' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=4'-1"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 2070+00 - STA. 2129+00

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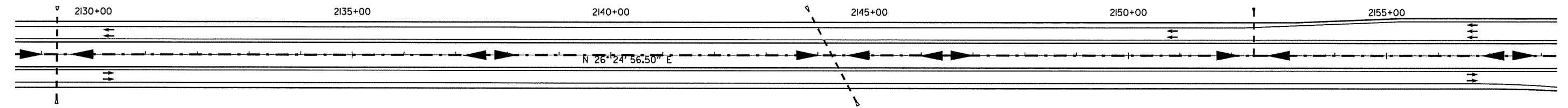




DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012195							81	96

PLAN SHEETS

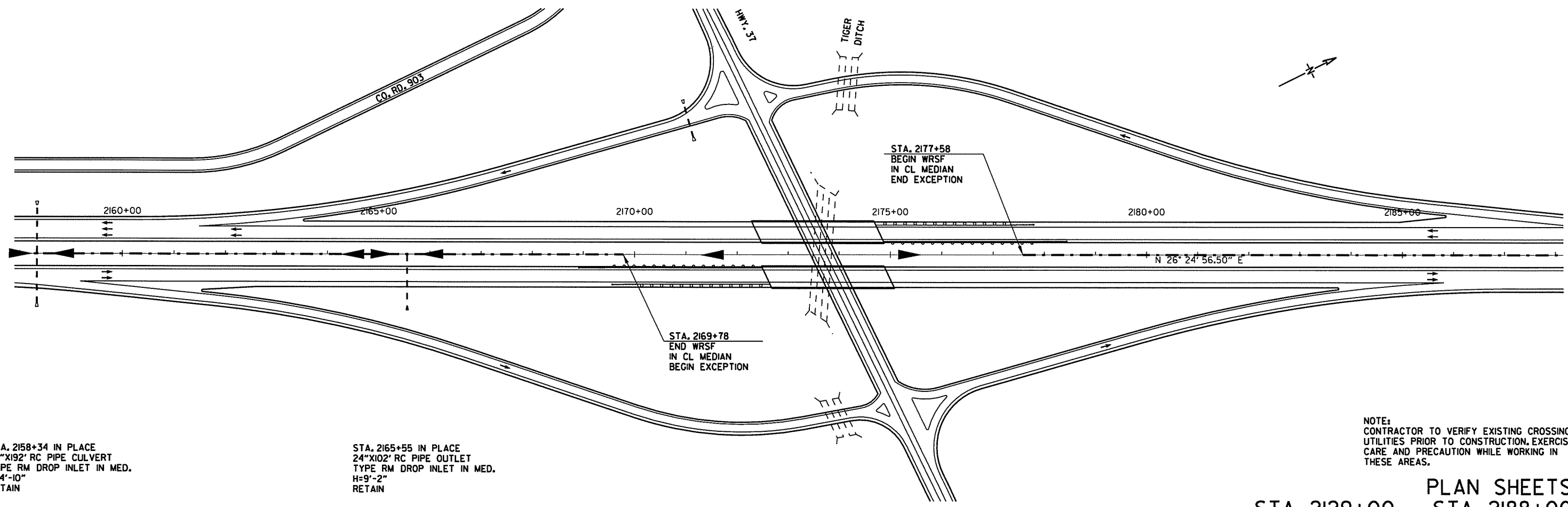
CO. RD. 903



STA. 2129+30 IN PLACE  
24"x175' RC PIPE CULVERT  
TYPE RM DROP INLET IN MED.  
H=5'-1"  
RETAIN

STA. 2144+28 IN PLACE  
24"x203' RC PIPE CULVERT  
28° RT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
H=4'-6"  
RETAIN

STA. 2152+43 IN PLACE  
24"x85' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-7"  
RETAIN



STA. 2158+34 IN PLACE  
24"x192' RC PIPE CULVERT  
TYPE RM DROP INLET IN MED.  
H=4'-10"  
RETAIN

STA. 2165+55 IN PLACE  
24"x102' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=9'-2"  
RETAIN

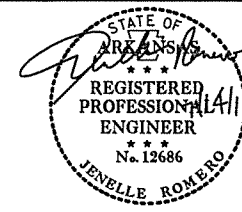
STA. 2169+78  
END WRSF  
IN CL MEDIAN  
BEGIN EXCEPTION

STA. 2177+58  
BEGIN WRSF  
IN CL MEDIAN  
END EXCEPTION

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

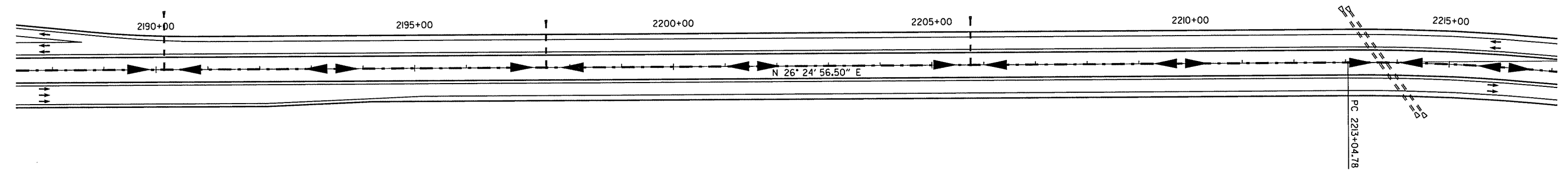
PLAN SHEETS  
STA. 2129+00 - STA. 2188+00

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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
				6	ARK.			
				JOB NO.	012195	82	96	

PLAN SHEETS

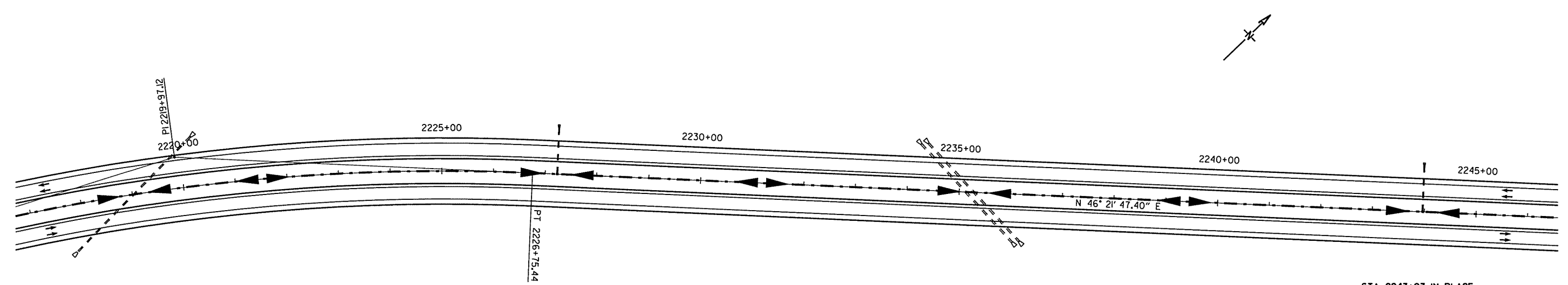


STA. 2190+16 IN PLACE  
24"X133' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=5'-7"  
RETAIN

STA. 2197+54 IN PLACE  
24"X84' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-3"  
RETAIN

STA. 2205+74 IN PLACE  
24"X86' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-1"  
RETAIN

STA. 2213+73 IN PLACE  
DBL. 36"X24' RC PIPE CULVERT  
36° RT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
OVER NORTH PIPE  
H=7'-7"  
RETAIN



P.I. = 2219+97.12  
Δ = 19° 56' 50.90" (RT)  
D = 1' 27' 19.12"  
T = 692.34  
L = 1,370.67  
R = 3,937.01

STA. 2219+03 IN PLACE  
30"X313' RC PIPE CULVERT  
53° LT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
H=6'-1"  
RETAIN

STA. 2227+23 IN PLACE  
24"X88' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-1"  
RETAIN

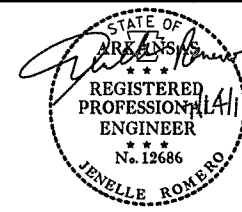
STA. 2235+21 IN PLACE  
DBL. 36"X258' RC PIPE CULVERT  
45° LT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
OVER NORTH PIPE  
H=5'-9"  
RETAIN

STA. 2243+97 IN PLACE  
24"X87' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=4'-3"  
RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

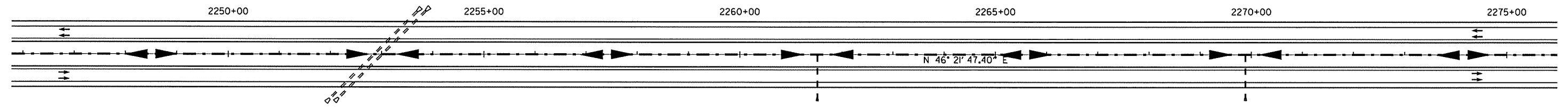
PLAN SHEETS  
STA. 2188+00 - STA. 2246+00

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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
				6	ARK.	012195	83	96

PLAN SHEETS

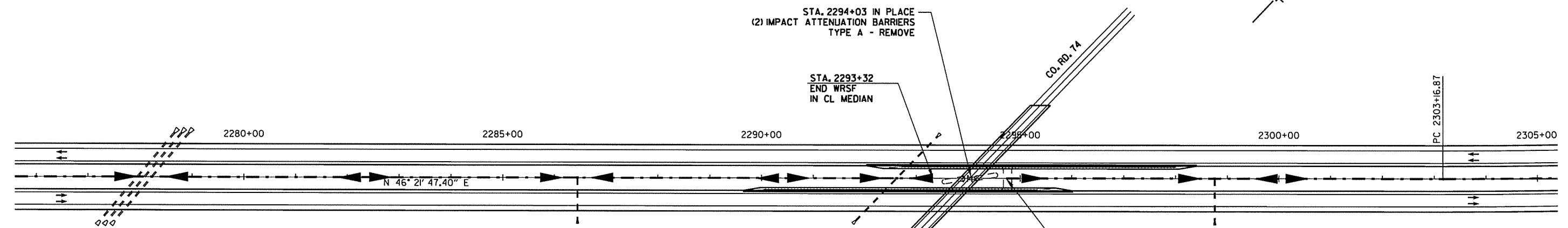


STA. 2252+94 IN PLACE  
 DBL. 36"X242' RC PIPE CULVERT  
 45° LT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 OVER NORTH PIPE  
 H=3'-11"  
 RETAIN

STA. 2261+52 IN PLACE  
 24"X83' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

STA. 2269+88 IN PLACE  
 24"X82' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 2290+08 - STA. 2295+58 (RT. SHLDR.)	500	1	1
STA. 2292+47 - STA. 2297+97 (LT. SHLDR.)	500	1	1



STA. 2294+03 IN PLACE  
 (2) IMPACT ATTENUATION BARRIERS  
 TYPE A - REMOVE

STA. 2293+32  
 END WRSF  
 IN CL MEDIAN

STA. 2292+62 IN PLACE  
 24"X228' RC PIPE CULVERT  
 44° LT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 H=2'-11"  
 RETAIN

STA. 2294+73  
 BEGIN WRSF  
 IN CL MEDIAN

STA. 2278+09 IN PLACE  
 TRIPLE 30"X222' RC PIPE CULVERT  
 40° LT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 OVER NORTH PIPE  
 H=3'-4"  
 RETAIN

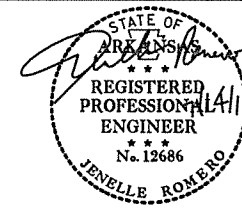
STA. 2286+45 IN PLACE  
 24"X81' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

STA. 2298+76 IN PLACE  
 24"X82' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

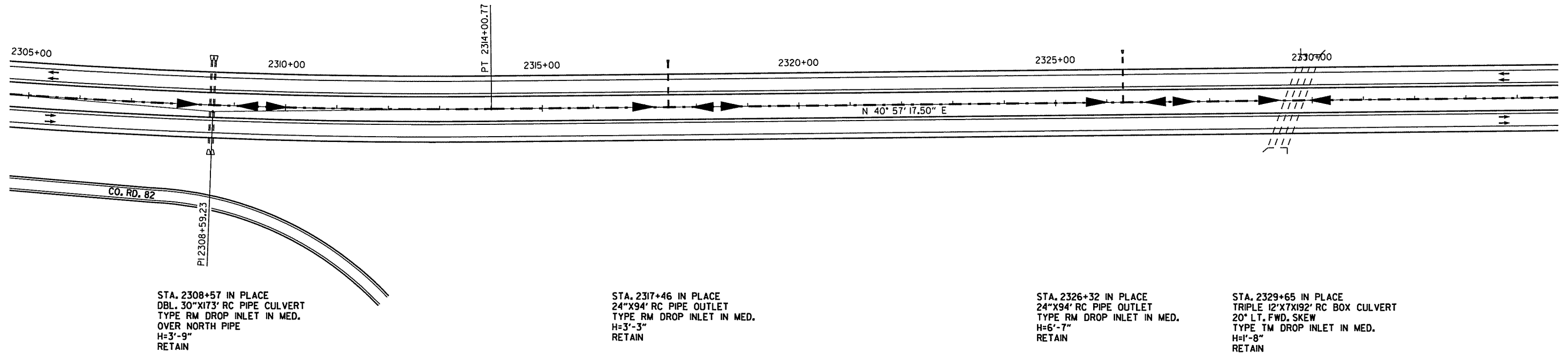
PLAN SHEETS  
 STA. 2246+00 - STA. 2305+00

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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
				6	ARK.	012195	84	96
				JOB NO.		012195	84	96

P.I. = 2308+59.23  
 $\Delta$  = 5° 24' 29.90" (LT)  
 D = 0° 29' 56.28"  
 T = 542.35  
 L = 1,083.90  
 R = 11,482.87

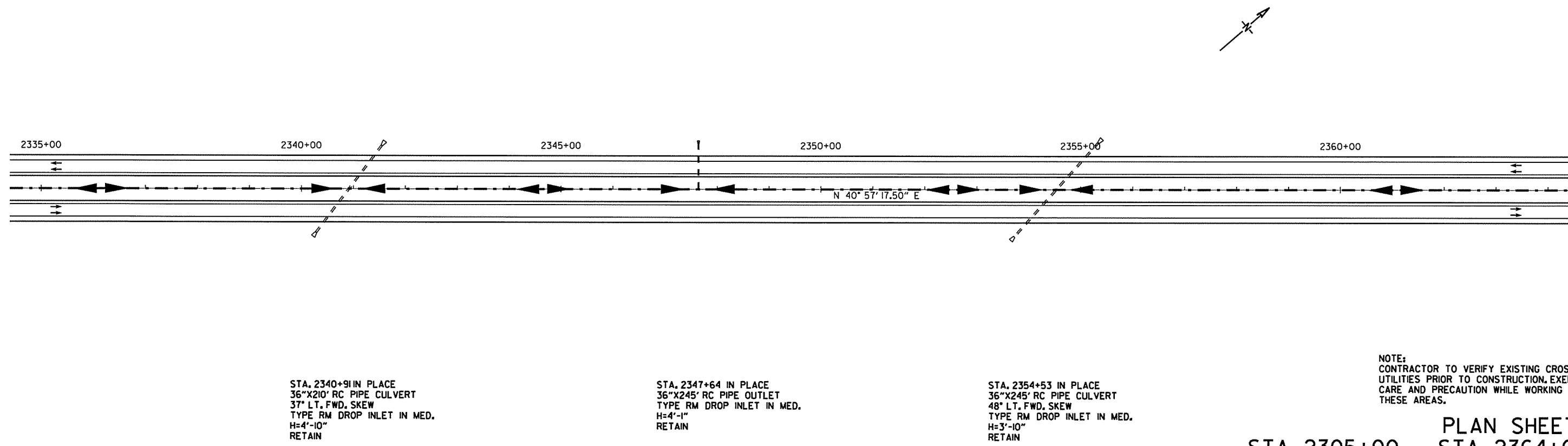


STA. 2308+57 IN PLACE  
 DBL. 30"x173' RC PIPE CULVERT  
 TYPE RM DROP INLET IN MED.  
 OVER NORTH PIPE  
 H=3'-9"  
 RETAIN

STA. 2317+46 IN PLACE  
 24"x94' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=3'-3"  
 RETAIN

STA. 2326+32 IN PLACE  
 24"x94' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=6'-7"  
 RETAIN

STA. 2329+65 IN PLACE  
 TRIPLE 12"x7x192' RC BOX CULVERT  
 20° LT. FWD. SKEW  
 TYPE TM DROP INLET IN MED.  
 H=1'-8"  
 RETAIN



STA. 2340+91 IN PLACE  
 36"x210' RC PIPE CULVERT  
 37° LT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 H=4'-10"  
 RETAIN

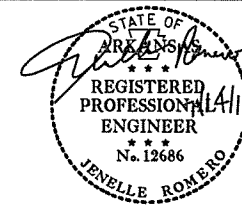
STA. 2347+64 IN PLACE  
 36"x245' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=4'-1"  
 RETAIN

STA. 2354+53 IN PLACE  
 36"x245' RC PIPE CULVERT  
 48° LT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 H=3'-10"  
 RETAIN

NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

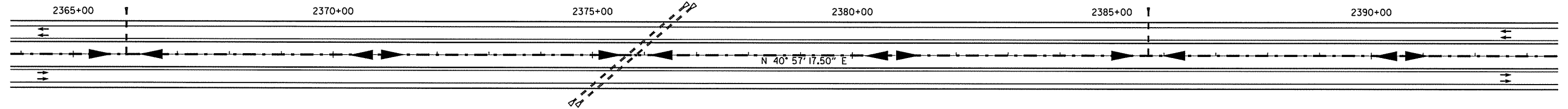
PLAN SHEETS  
 STA. 2305+00 - STA. 2364+00

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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
				6	ARK.			
				JOB NO.	012195	85	96	

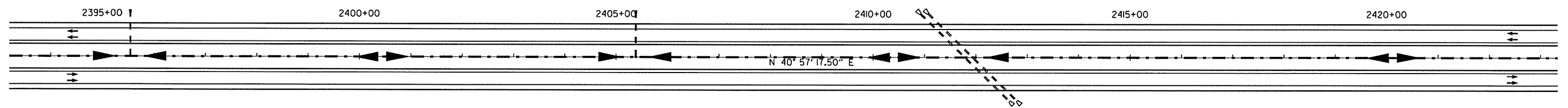
PLAN SHEETS



STA. 2366+01 IN PLACE  
 24"X82' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

STA. 2375+75 IN PLACE  
 DBL. 30"X280' RC PIPE CULVERT  
 49° LT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 OVER NORTH PIPE  
 H=5'-0"  
 RETAIN

STA. 2385+70 IN PLACE  
 24"X85' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=3'-7"  
 RETAIN



STA. 2395+54 IN PLACE  
 24"X82' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

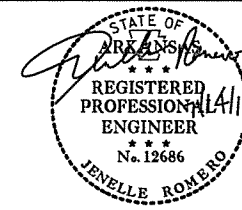
STA. 2405+38 IN PLACE  
 24"X82' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

STA. 2411+85 IN PLACE  
 DBL. 30"X242' RC PIPE CULVERT  
 45° RT. FWD. SKEW  
 TYPE RM DROP INLET IN MED.  
 OVER NORTH PIPE  
 H=3'-5"  
 RETAIN

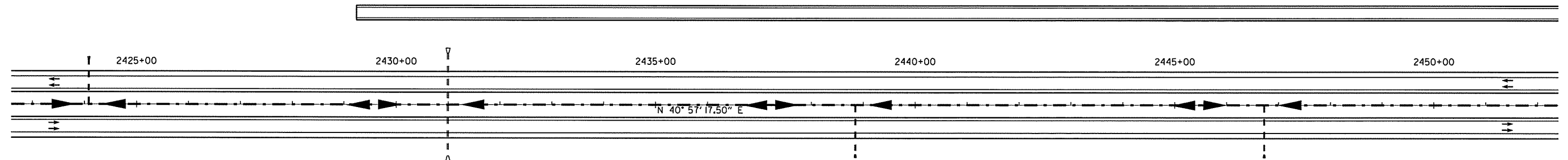
NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 2364+00 - STA. 2423+00

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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
				6	ARK.	012195	86	96
				JOB NO.		012195	86	96
PLAN SHEETS								

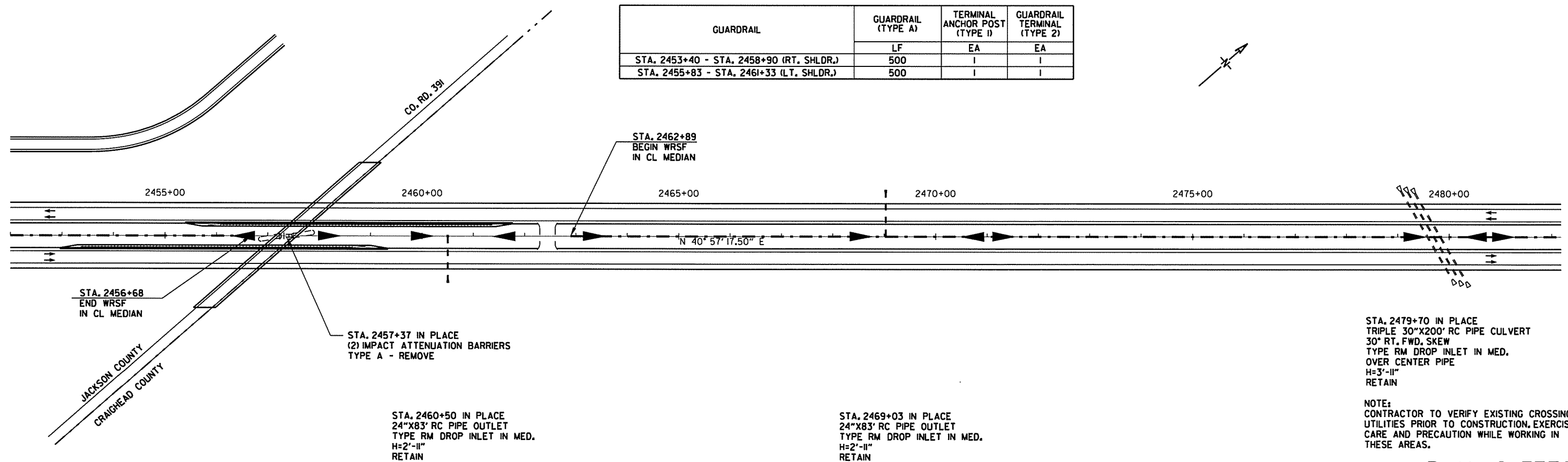


STA. 2424+08 IN PLACE  
24"X84' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=3'-3"  
RETAIN

STA. 2431+00 IN PLACE  
30"X198' RC PIPE CULVERT  
TYPE RM DROP INLET IN MED.  
H=8'-6"  
RETAIN

STA. 2438+85 IN PLACE  
24"X94' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=6'-7"  
RETAIN

STA. 2446+72 IN PLACE  
24"X94' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=5'-11"  
RETAIN



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
STA. 2453+40 - STA. 2458+90 (RT. SHLDR.)	LF	EA	EA
STA. 2455+83 - STA. 2461+33 (LT. SHLDR.)	500	I	I
	500	I	I

STA. 2456+68  
END WRSF  
IN CL MEDIAN

STA. 2457+37 IN PLACE  
(2) IMPACT ATTENUATION BARRIERS  
TYPE A - REMOVE

STA. 2460+50 IN PLACE  
24"X83' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

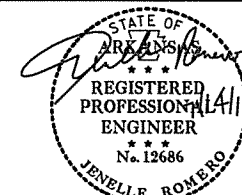
STA. 2469+03 IN PLACE  
24"X83' RC PIPE OUTLET  
TYPE RM DROP INLET IN MED.  
H=2'-11"  
RETAIN

STA. 2479+70 IN PLACE  
TRIPLE 30"X200' RC PIPE CULVERT  
30° RT. FWD. SKEW  
TYPE RM DROP INLET IN MED.  
OVER CENTER PIPE  
H=3'-11"  
RETAIN

NOTE:  
CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
STA. 2423+00 - STA. 2482+00

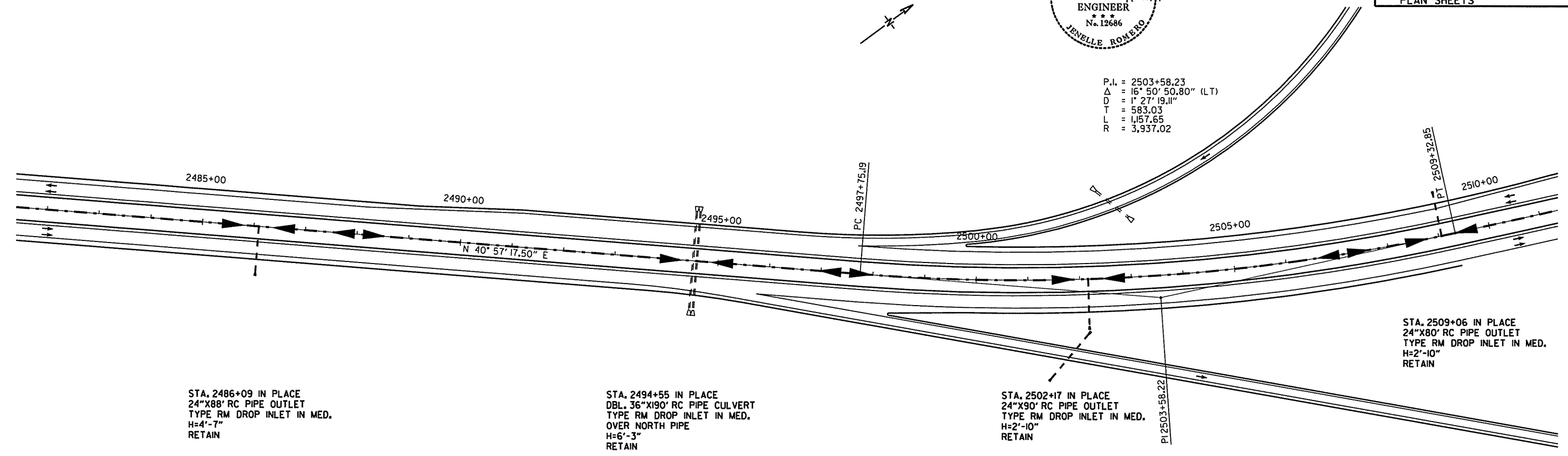
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	012195	87	96
				JOB NO.		012195	87	96

PLAN SHEETS

P.I. = 2503+58.23  
 $\Delta$  = 16° 50' 50.80" (LT)  
 D = 1' 27' 19.11"  
 T = 583.03  
 L = 1,157.65  
 R = 3,937.02



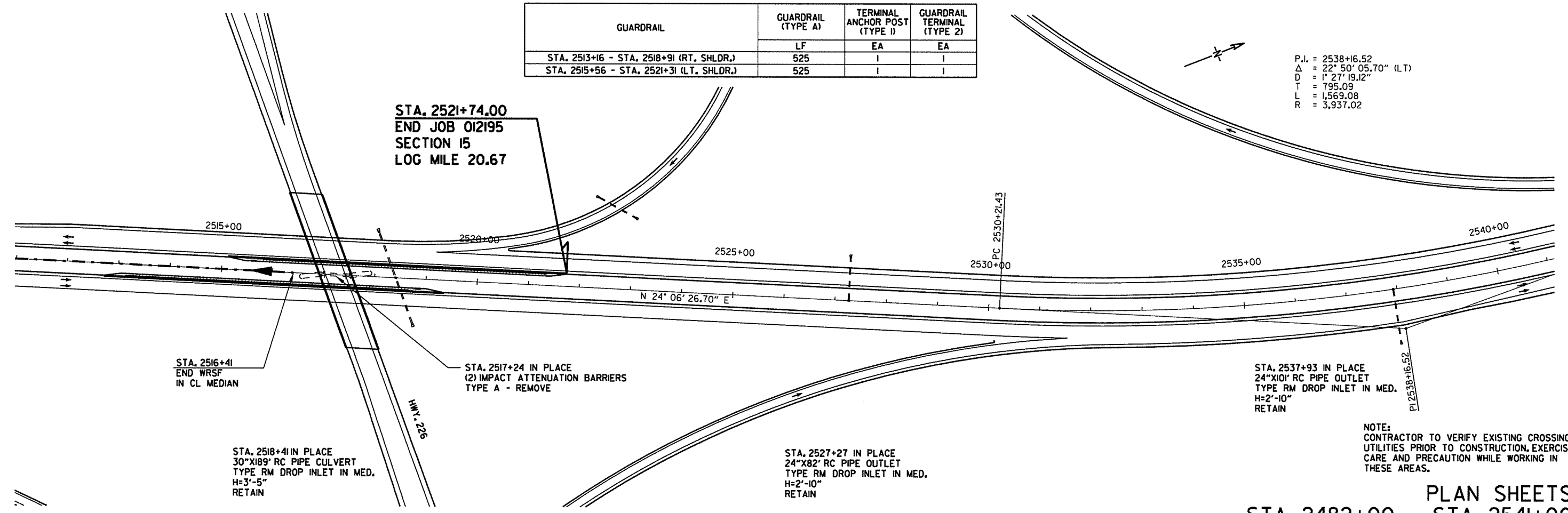
STA. 2486+09 IN PLACE  
 24"X88' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=4'-7"  
 RETAIN

STA. 2494+55 IN PLACE  
 DBL. 36"X190' RC PIPE CULVERT  
 TYPE RM DROP INLET IN MED.  
 OVER NORTH PIPE  
 H=6'-3"  
 RETAIN

STA. 2502+17 IN PLACE  
 24"X90' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

STA. 2509+06 IN PLACE  
 24"X80' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 2513+16 - STA. 2518+91 (RT. SHLDR.)	525		
STA. 2515+56 - STA. 2521+31 (LT. SHLDR.)	525		



STA. 2521+74.00  
 END JOB 012195  
 SECTION 15  
 LOG MILE 20.67

STA. 2516+41  
 END WRSF  
 IN CL. MEDIAN

STA. 2517+24 IN PLACE  
 (2) IMPACT ATTENUATION BARRIERS  
 TYPE A - REMOVE

STA. 2518+41 IN PLACE  
 30"X189' RC PIPE CULVERT  
 TYPE RM DROP INLET IN MED.  
 H=3'-5"  
 RETAIN

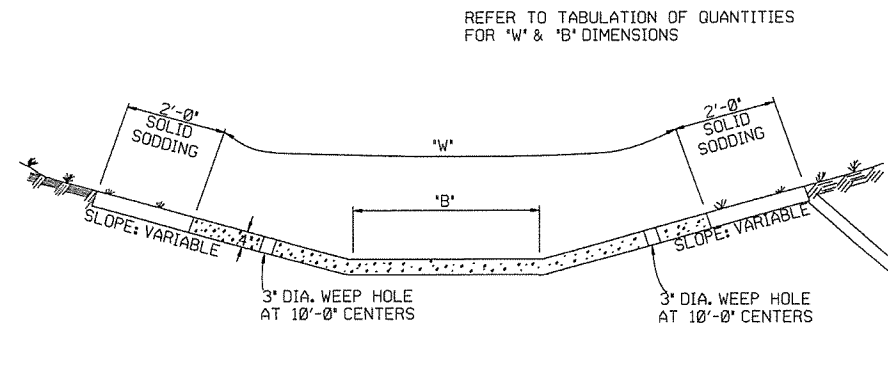
STA. 2527+27 IN PLACE  
 24"X82' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

STA. 2537+93 IN PLACE  
 24"X101' RC PIPE OUTLET  
 TYPE RM DROP INLET IN MED.  
 H=2'-10"  
 RETAIN

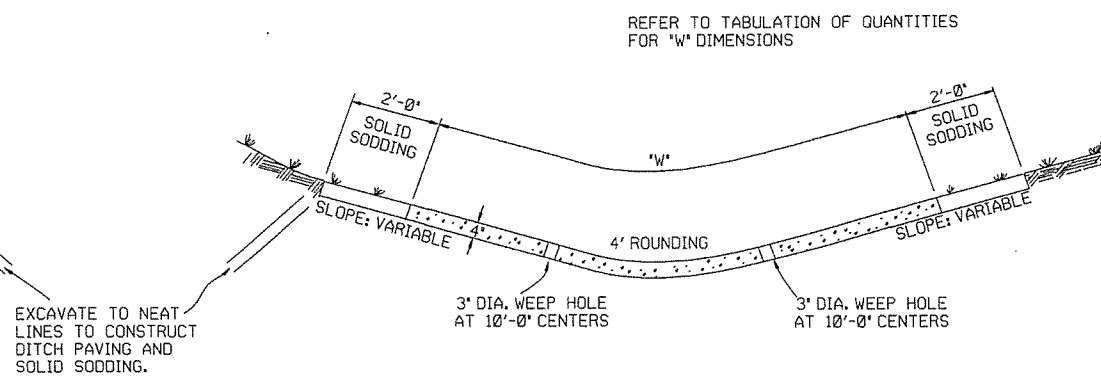
NOTE:  
 CONTRACTOR TO VERIFY EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION, EXERCISE CARE AND PRECAUTION WHILE WORKING IN THESE AREAS.

PLAN SHEETS  
 STA. 2482+00 - STA. 2541+00

7/11/2014 AM 11:20:14 AM P:\100038103\CA00\PAV\HW167-36.dgn



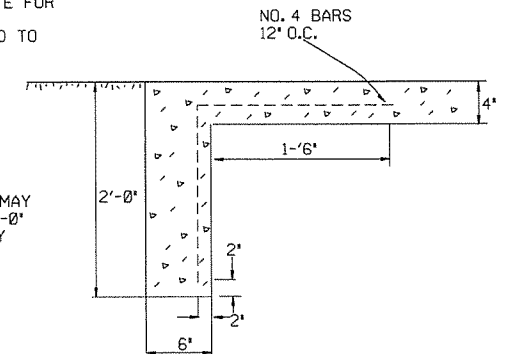
TYPE A



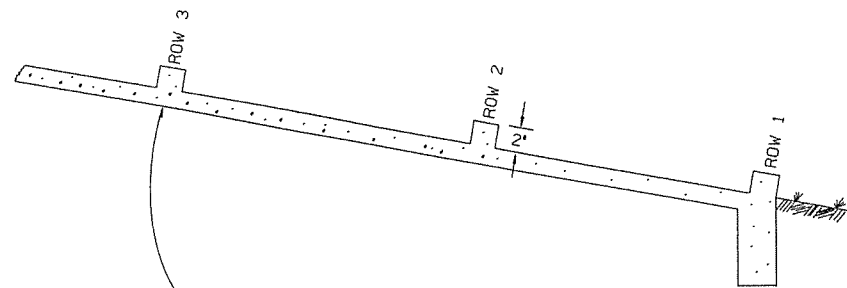
TYPE B

EXCAVATE TO NEAT LINES TO CONSTRUCT DITCH PAVING AND SOLID SODDING.

THE STEEL AND ADDITIONAL CONCRETE FOR THE WALLS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR 'CONCRETE DITCH PAVING.'

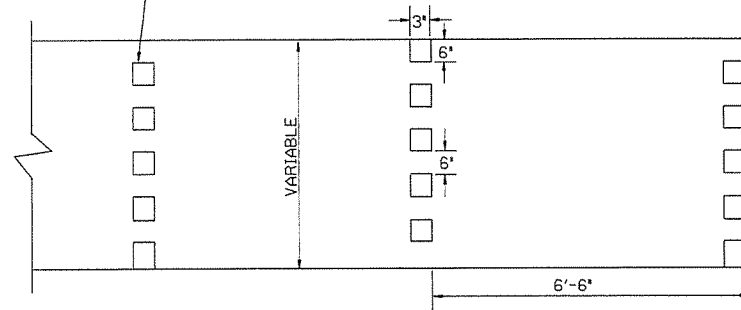


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 7%. THE DISSIPATORS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.



ENERGY DISSIPATORS  
(NO SCALE)

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONOLITHICALLY.

SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

1' WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

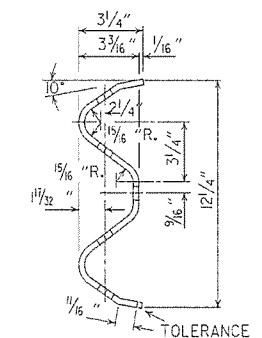
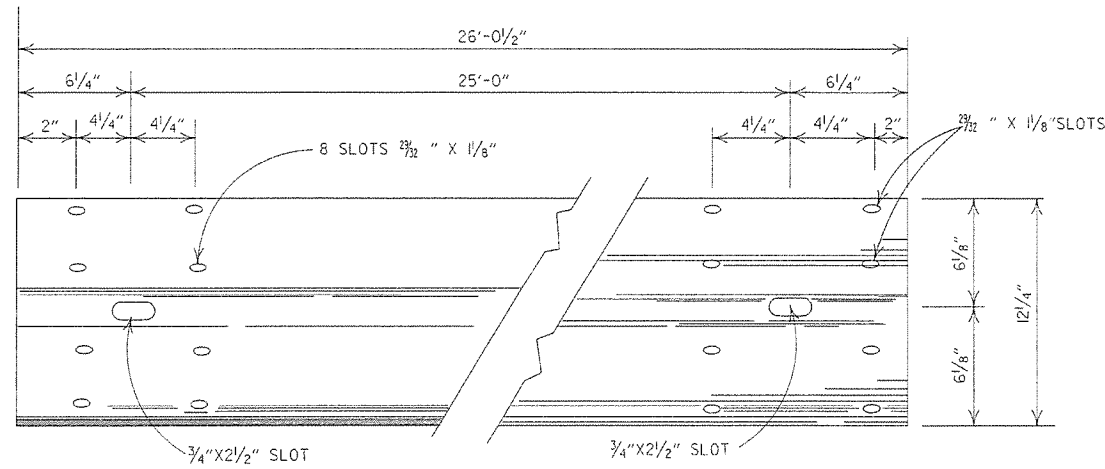
DATE	REVISION	DATE FILM'D
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-88	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	532-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	599-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	608-11-1-84
11-1-84	EXCAVATION DETAILS ADDED	
10-2-72	REVISED AND REDRAWN	508-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

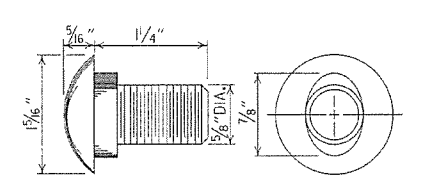
CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

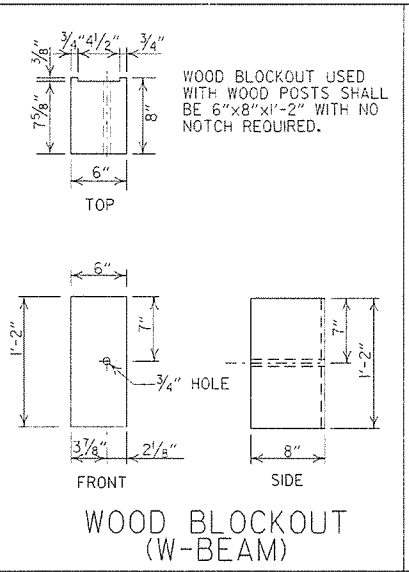
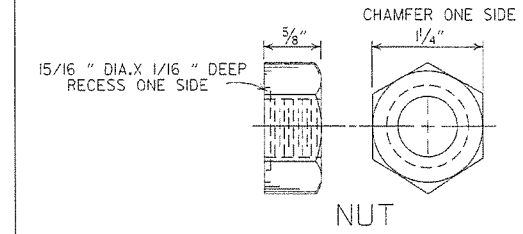
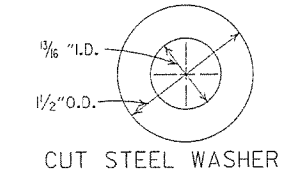




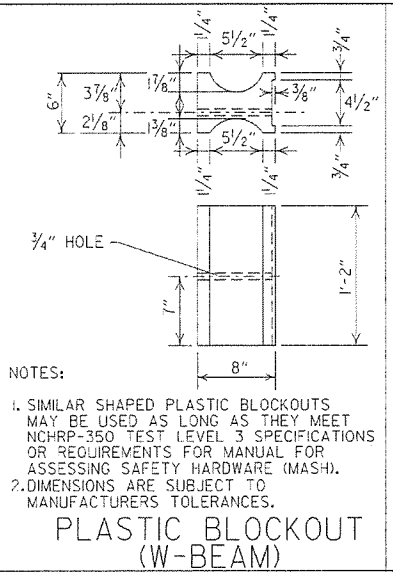
**DETAILS OF W-BEAM GUARD RAIL**  
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



**SPLICE BOLT**  
POST BOLT - SAME EXCEPT LENGTH

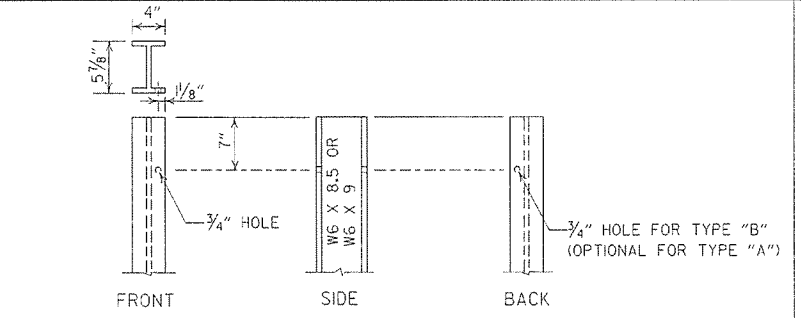


**WOOD BLOCKOUT (W-BEAM)**

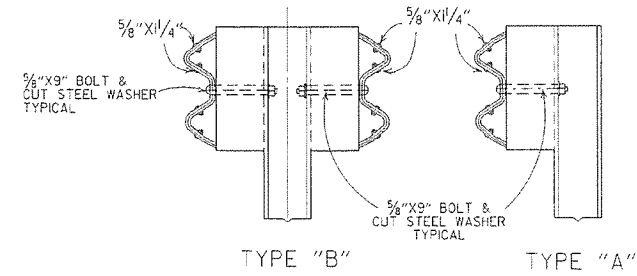


**PLASTIC BLOCKOUT (W-BEAM)**

**NOTES:**  
1. SIMILAR SHAPED PLASTIC BLOCKOUTS MAY BE USED AS LONG AS THEY MEET NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).  
2. DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.

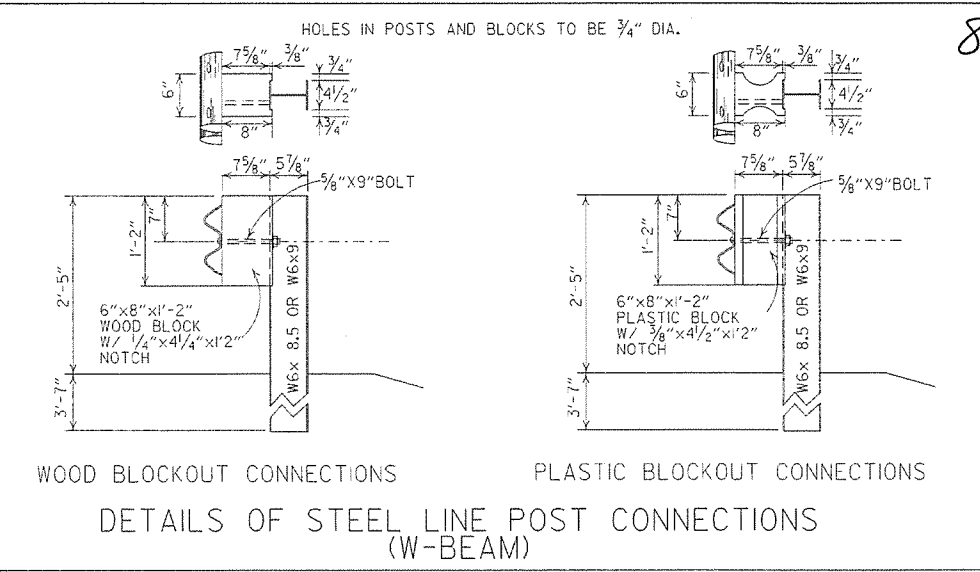


**STEEL POST**

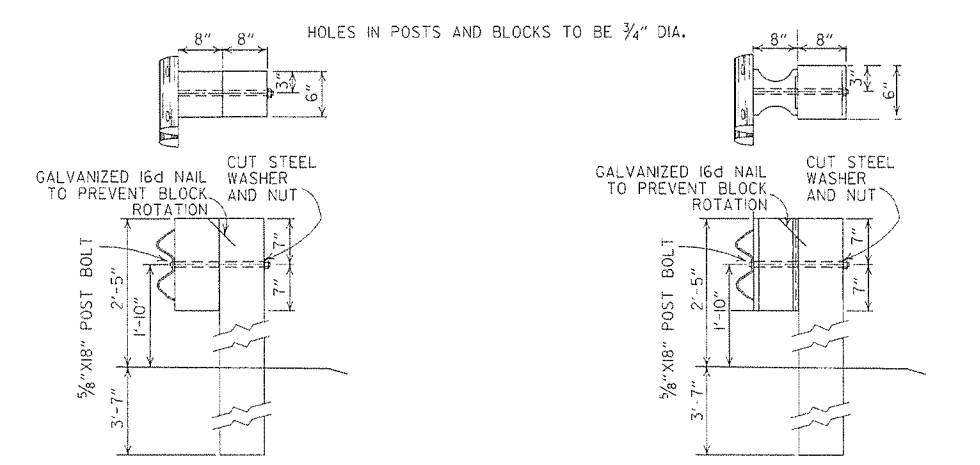


**TYPE "B" TYPE "A"**

**DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)**



**WOOD BLOCKOUT CONNECTIONS PLASTIC BLOCKOUT CONNECTIONS**  
**DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)**



**WOOD BLOCKOUT CONNECTIONS PLASTIC BLOCKOUT CONNECTIONS**  
**DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)**

**-GENERAL NOTES-**

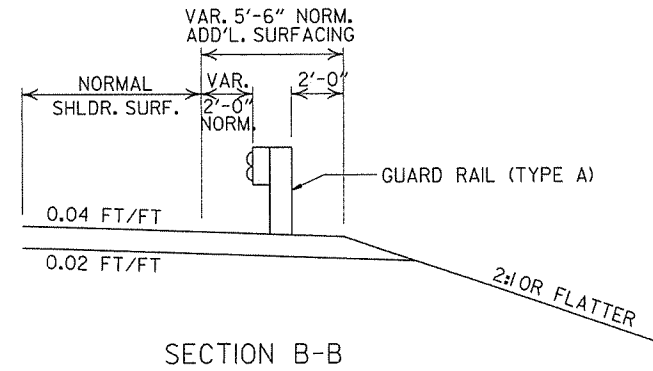
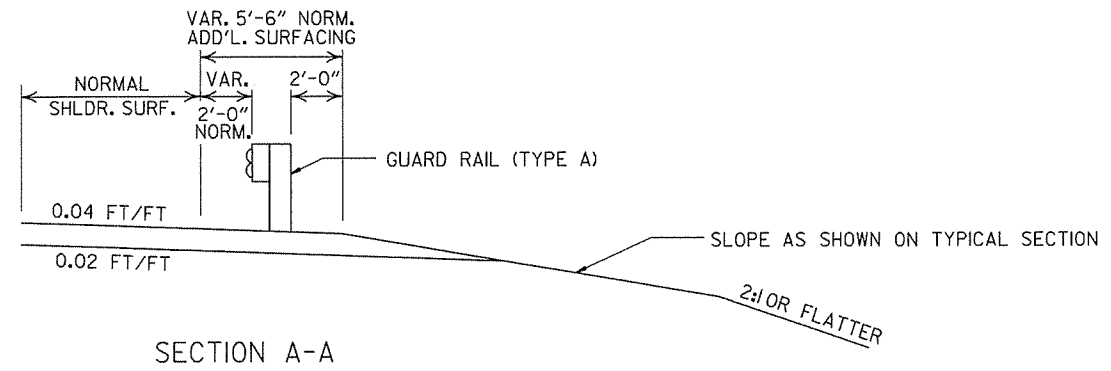
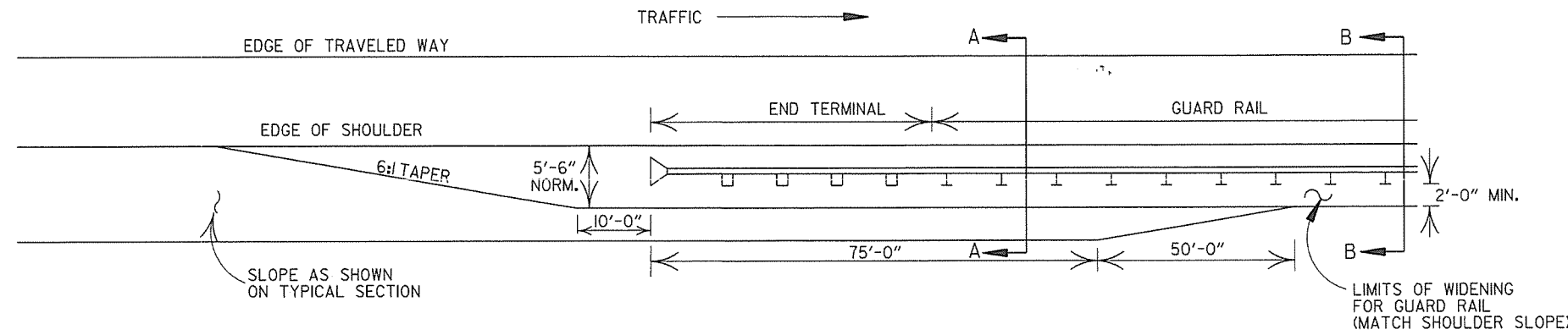
ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.  
WHERE W-BEAM GUARD RAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.  
W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.  
USE W-BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARD RAIL, W-BEAM GUARD RAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.  
ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.  
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO.1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO.1 1350 f SOUTHERN PINE.  
CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARD RAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARD RAIL.

7-4-10	RAISED HEIGHT OF GUARD RAIL 1"	
0-15-09	ADDED REFERENCE TO MASH	
4-10-03	REVISED GENERAL NOTES	
8-22-02	REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & ON STEEL POST	
8-16-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS	
3-30-00	REMOVED GUARD RAIL AT BRIDGE ENDS	
1-12-00	ADDED PLASTIC BLOCKOUT	
8-12-98	REV. BLOCKOUTS TO WOOD, DELETED CONC. POST & REV. GENERAL NOTE, DELETED DET. OF GUARD RAIL REPLACE BEHIND CURB & DET. OF POST PLACE IN SOLID ROCK, & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLES IN STEEL POLES	
4-3-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS	
10-18-96	REVISED WOOD POST NOTE	
6-2-94	ADDED AL T. STEEL POST SIZE	
8-5-93	REVISED STEEL POST SIZE	8-5-93
10-1-92	REDRAWN & REVISED	10-1-92
8-15-91	REVISED WASHER NOTE	8-5-91
8-2-90	REV. GEN. NOTE & DEPHT OF ANC. POST IN ROCK	8-2-90
7-15-88	REVISED SECTION 3 & GENERAL NOTES	
3-4-88	REV. ANCHOR POST, ELEV. NOTES & POST IN ROCK	780-3-4-88
10-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87
10-9-87	REDRAWN & REVISED	802-10-9-87
DATE	REVISION	DATE FILM

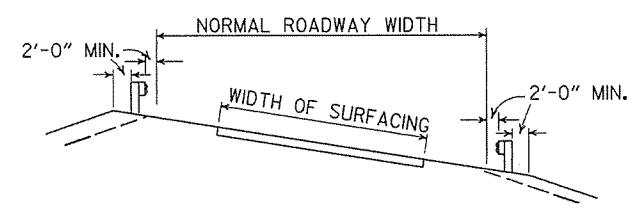
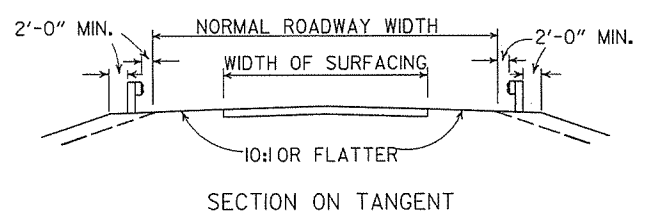
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

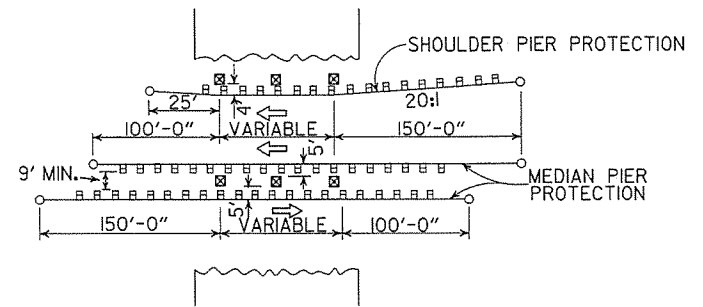
STANDARD DRAWING GR-8



DETAILS OF WIDENING FOR GUARD RAIL

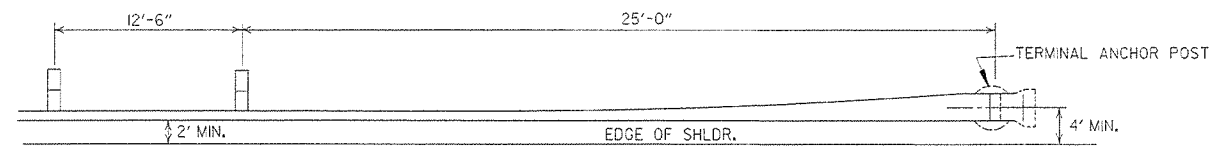


DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

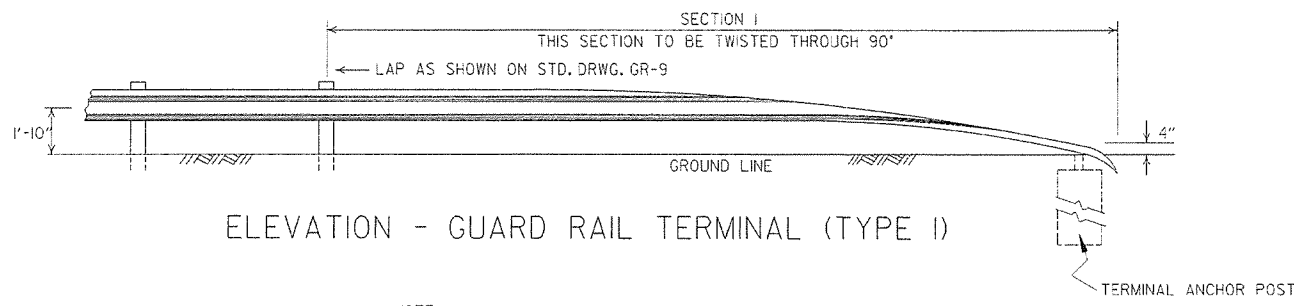


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

				ARKANSAS STATE HIGHWAY COMMISSION
				GUARD RAIL DETAILS
				STANDARD DRAWING GR-9A
4-17-08	MINOR REVISION			
11-10-05	DRAWN			
DATE	REVISION	DATE	FILM	

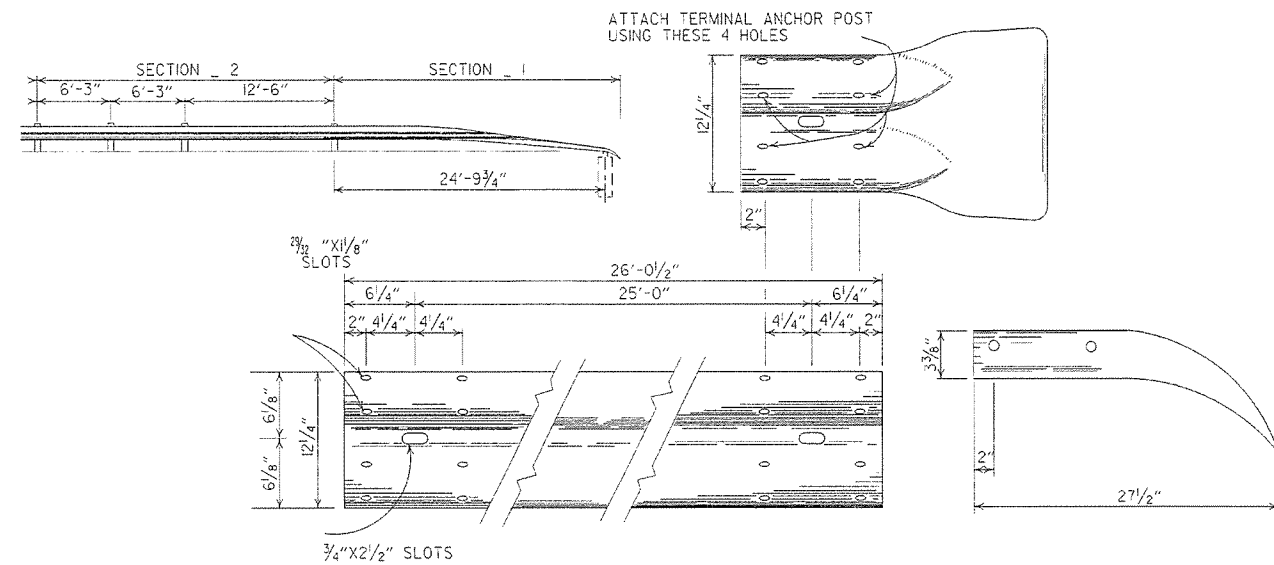


PLAN - GUARD RAIL TERMINAL (TYPE I)



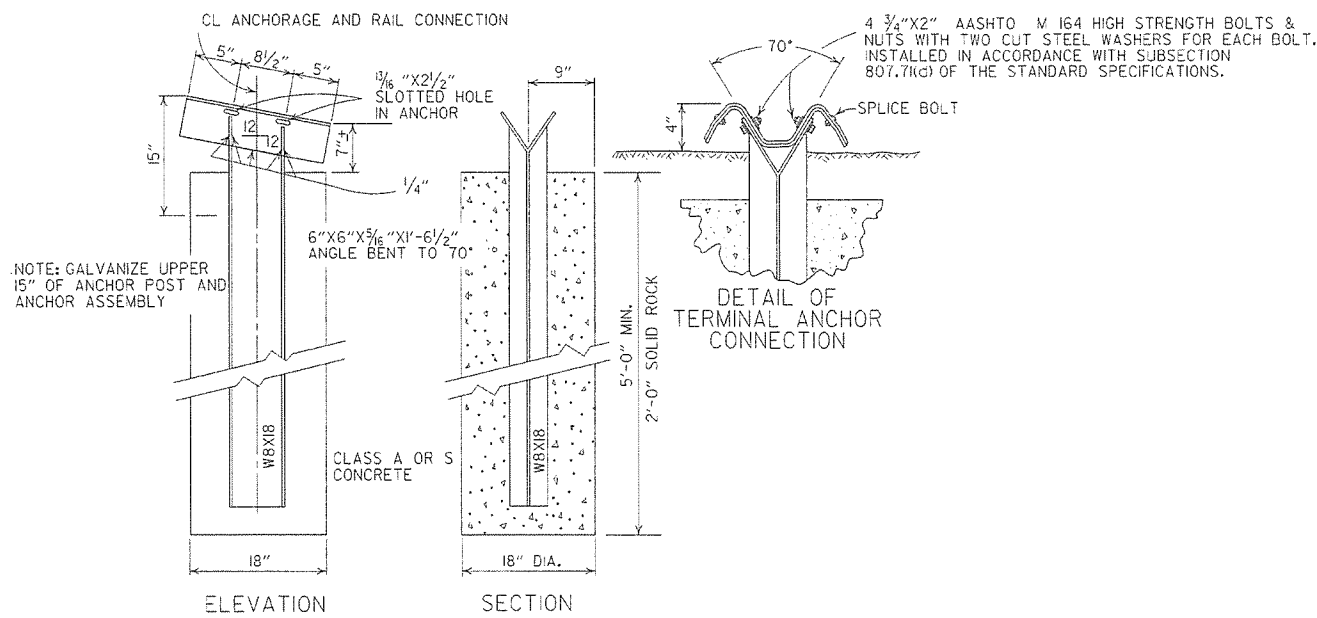
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

NOTE:  
SECTIONS 1 AND 2 OF GUARD RAIL TERMINAL  
SHALL BE PAID FOR AT THE PRICE BID PER  
LINEAR FOOT OF THE TYPE OF GUARD RAIL SPECIFIED.



SECTION 1

TERMINAL SECTION



ELEVATION SECTION

DETAIL OF TERMINAL ANCHOR CONNECTION

NOTE: GALVANIZE UPPER 15" OF ANCHOR POST AND ANCHOR ASSEMBLY

NOTE: RAIL MEMBERS MAY BE BOLTED TO ANGLE AT TERMINAL ANCHOR AND THE TWO ASSEMBLIES POSITIONED TO PROPER ALIGNMENT PRIOR TO PLACING CONCRETE AROUND 8 W 17 POST IF CONTRACTOR SO DESIRES.

DETAIL OF TERMINAL ANCHOR POST (TYPE I)

			ARKANSAS STATE HIGHWAY COMMISSION
			GUARD RAIL DETAILS
			STANDARD DRAWING GRT-I
7-14-10	RAISED HEIGHT OF GUARD RAIL 1"		
6-26-97	REVISED LAP NOTE		
10-18-96	REVISED ASTM REF. TO AASHTO		
11-3-94	DIMENSION TERMINAL DETAIL		
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92	
10-1-92	DRAWN & ISSUED	10-1-92	
DATE	REVISION	DATE FILM	

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206	AHTD NOMINAL	AASHTO M 206	AHTD NOMINAL
INCHES	INCHES			
15	18	18	11	11
18	22	22	13 1/2	14
21	26	26	15 1/2	16
24	28 1/2	29	18	18
30	36 1/4	36	22 1/2	23
36	43 3/8	44	26 5/8	27
42	51 1/6	51	31 5/16	31
48	58 1/2	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77 1/2	77
108	138	138	87 1/8	87
120	154	154	96 5/8	97
132	168 3/4	169	106 1/2	107

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

EQUIV. DIA.	AASHTO M 207	
	SPAN	RISE
INCHES	INCHES	
18	23	14
24	30	19
27	34	22
30	38	24
33	42	27
36	45	29
39	49	32
42	53	34
48	60	38
54	68	43
60	76	48
66	83	53
72	91	58
78	98	63
84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(F)(1).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

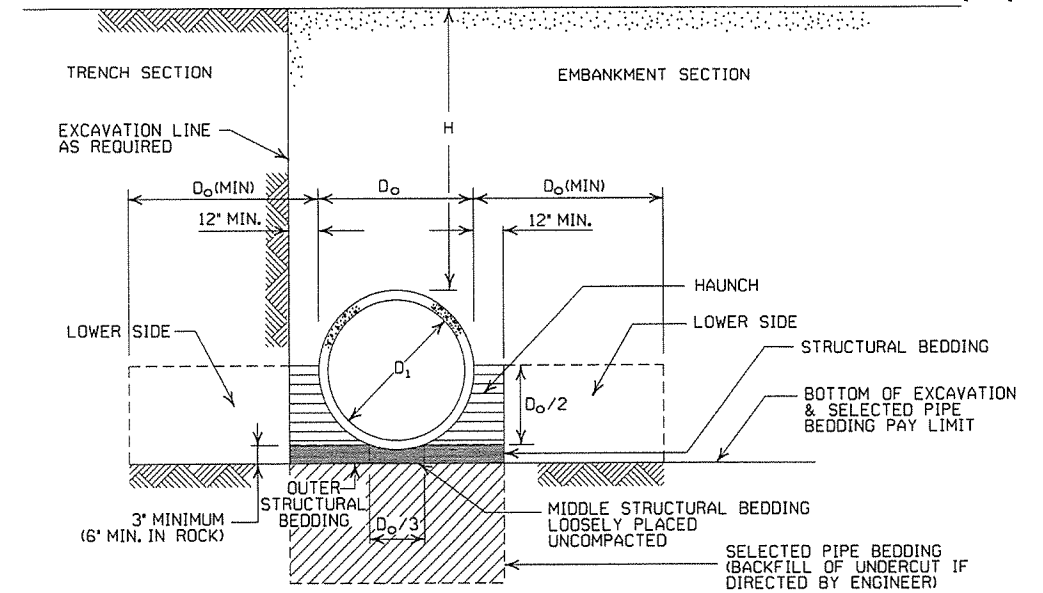
- LEGEND -

- D<sub>1</sub> = NORMAL INSIDE DIAMETER OF PIPE
- D<sub>o</sub> = OUTSIDE DIAMETER OF PIPE
- H = FILL COVER HEIGHT OVER PIPE (FEET)
- MIN. = MINIMUM
- [Symbol] = UNDISTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3**	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

\* SM-3 WILL NOT BE ALLOWED.

\*\* MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.



EMBANKMENT AND TRENCH INSTALLATIONS

1. MATERIAL IN THE HAUNCH AND OUTER STRUCTURAL BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. FOR TRENCHES WITH WALLS OF NATURAL SOIL, THE DENSITY OF THE SOIL IN THE LOWER SIDE ZONE SHALL BE AS FIRM AS THE 95% DENSITY REQUIRED FOR THE HAUNCH. IF THE EXISTING SOIL DOES NOT MEET THIS CRITERIA, IT SHALL BE REMOVED AND RECOMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OF MATERIAL USED.
3. FOR EMBANKMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

GENERAL NOTES

1. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONCRETE PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. ALL PIPE SHALL CONFORM TO SECTION 606. CIRCULAR R.C. PIPE CULVERTS SHALL CONFORM TO AASHTO M170, R.C. ARCH PIPE CULVERTS SHALL CONFORM TO AASHTO M206 AND HORIZONTAL ELLIPTICAL PIPE CULVERTS SHALL CONFORM TO AASHTO M207.
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. NOT MORE THAN ONE LIFTING HOLE MAY BE PROVIDED IN CONCRETE PIPE TO FACILITATE HANDLING. HOLE MAY BE CAST IN PLACE, CUT INTO THE FRESH CONCRETE AFTER FORMS ARE REMOVED, OR DRILLED. THE HOLE SHALL NOT BE MORE THAN TWO INCHES IN DIAMETER OR TWO INCHES SQUARE. CUTTING OR DISPLACEMENT OF REINFORCEMENT WILL NOT BE PERMITTED. SPALLED AREAS AROUND THE HOLE SHALL BE REPAIRED IN A WORKMANLIKE MANNER. LIFTING HOLE SHALL BE FILLED WITH MORTAR, CONCRETE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.
9. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
10. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS THE HAUNCH), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE			
	CLASS III		CLASS IV	CLASS V
PIPE ID (IN.)	FEET			
12-15	2	2.5	2	1
18-24	2.5	3	2	1
27-33	3	4	2	1
36-42	3.5	5	2	1
48	4.5	5.5	2	1
54-60	5	7	2	1
66-78	6	8	2	1
84-108	7.5	8	2	1

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
TYPE 1	21	32	50
TYPE 2	16	25	39
TYPE 3	12	20	30

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
TYPE 2 OR TYPE 3	FEET	
	2.5	1.5

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
TYPE 2	FEET	
	13	21
TYPE 3	10	16


NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS	
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

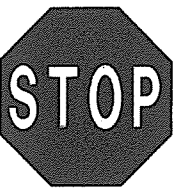
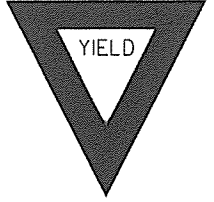
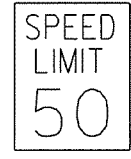
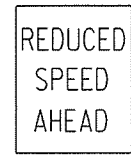



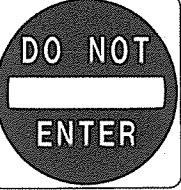

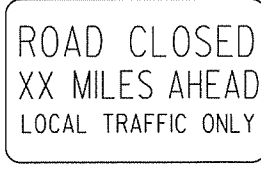
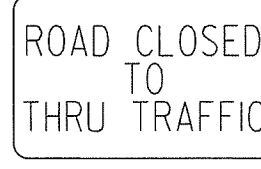
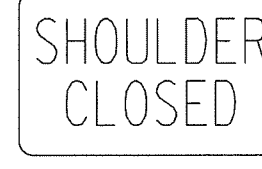
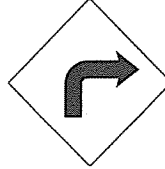
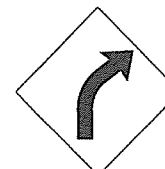
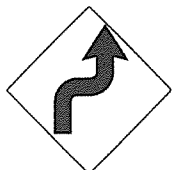

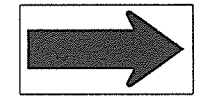
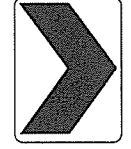
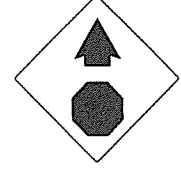
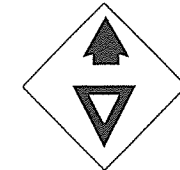
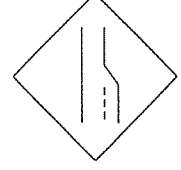

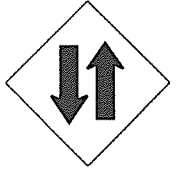

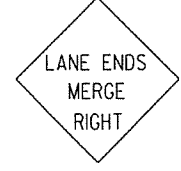
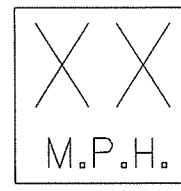

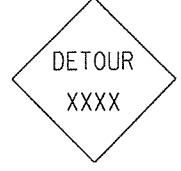
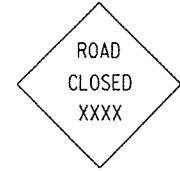





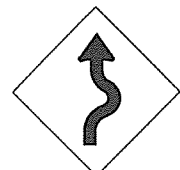
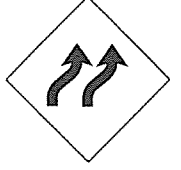


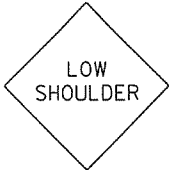
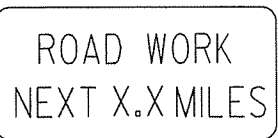
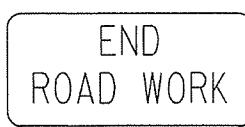
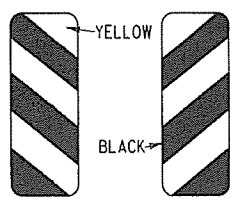
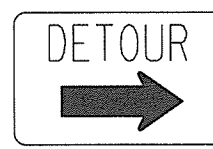

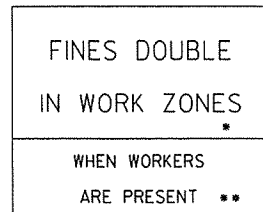
CONCRETE PIPE CULVERT  
FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1



ADVANCE DISTANCES (XXXX)

500 FT	1/2 MILE
1000 FT	3/4 MILE
1500 FT	1 MILE AHEAD

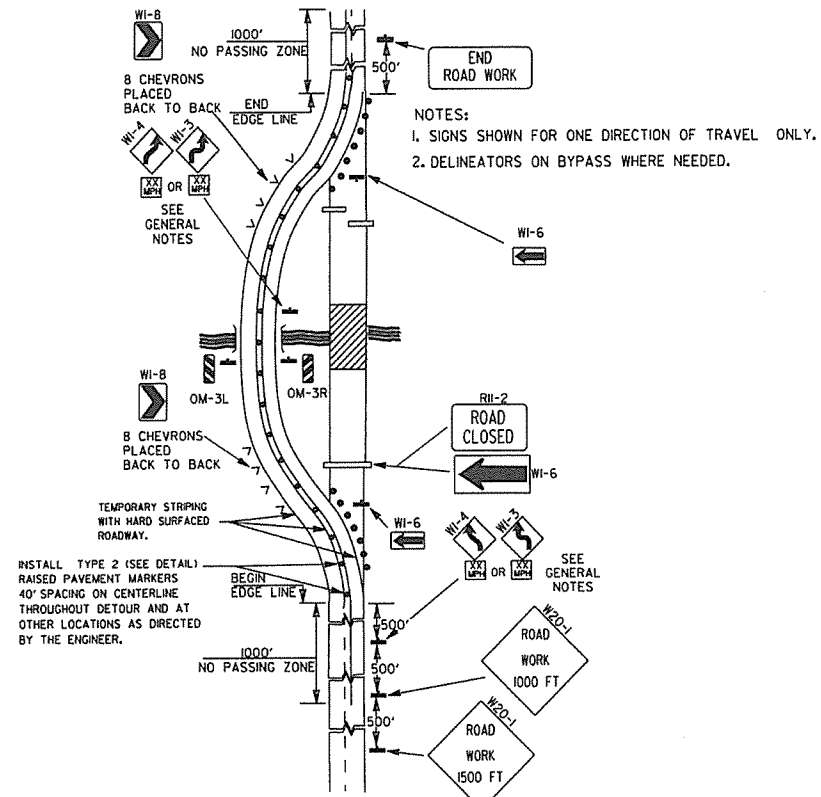
<p>RI-1</p>  <p>STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"</p>	<p>RI-2</p>  <p>STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"</p>	<p>R2-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5A</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5C</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R4-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R4-2</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>
<p>R5-1</p>  <p>STD. 30"x30" EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>R11-2</p>  <p>48"x30"</p>	<p>R11-3A</p>  <p>60"x30"</p>	<p>R11-4</p>  <p>60"x30"</p>	<p>RSP-1</p>  <p>48"x30"</p>	<p>WI-1</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>WI-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>
<p>WI-3</p>  <p>STD. 48"x48"</p>	<p>WI-4</p>  <p>STD. 48"x48"</p>	<p>WI-6</p>  <p>STD. 48"x24" SPECIAL 60"x30"</p>	<p>WI-8</p>  <p>STD. 18"x24" SPECIAL 24"x30" EXPWY. 30"x36" FWY. 36"x48"</p>	<p>W3-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W3-2</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W4-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>
<p>W5-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W6-3</p>  <p>EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>W8-7</p>  <p>EXPWY. 36"x36" FWY. 48"x48"</p>	<p>W9-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W13-1</p>  <p>STD. 24"x24"</p>	<p>W20-1</p>  <p>STD. 48"x48"</p>	<p>W20-2</p>  <p>STD. 48"x48"</p>
<p>W20-3</p>  <p>STD. 48"x48"</p>	<p>W20-4</p>  <p>STD. 48"x48"</p>	<p>W20-5</p>  <p>STD. 48"x48"</p>	<p>W20-7a</p>  <p>18" 500 FEET W16-2 24"</p> <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W21-2</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W21-5</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W24-1</p>  <p>STD. 36"x36"</p>
<p>W4-4b</p>  <p>STD. 48"x48"</p>	<p>R56-1</p>  <p>STD. 18"x18"</p>	<p>W8-11</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W8-9</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>G20-1</p>  <p>60"x24"</p>	<p>G20-2</p>  <p>48"x24"</p>	<p>OM-3L OM-3R</p>  <p>12"x36"</p>
<p>M4-9</p>  <p>STD. 30"x24" SPECIAL 48"x36" SPECIAL 60"x48"</p>	<p>M4-10</p>  <p>48"x18"</p>	<p>R55-1</p>  <p>36"x60"</p> <p>* USE 6" C LETTERS</p>				

GENERAL NOTES:

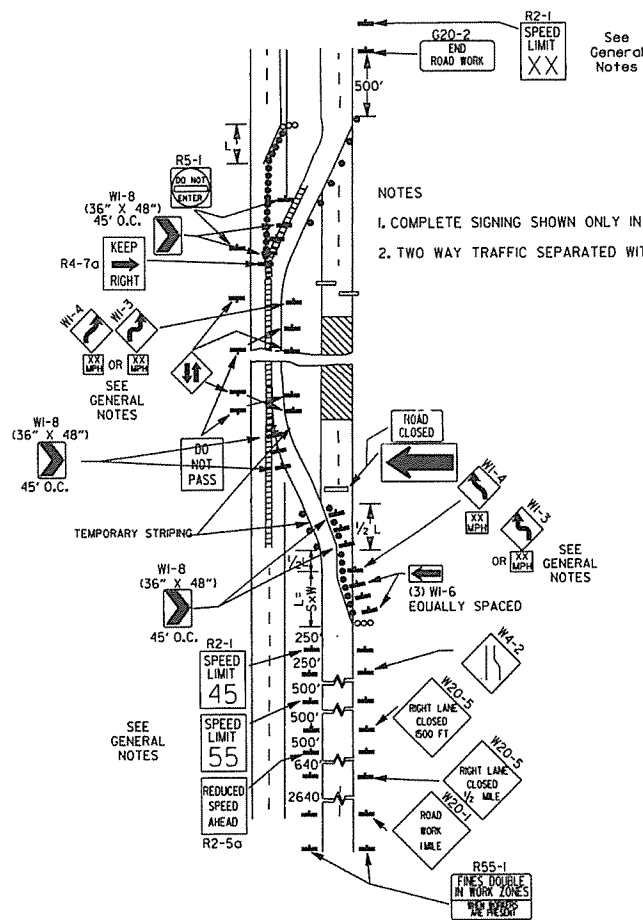
- ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
- EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.
- SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.
- SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.
- POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.
- ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.
- FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
- MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
- R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

\* NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

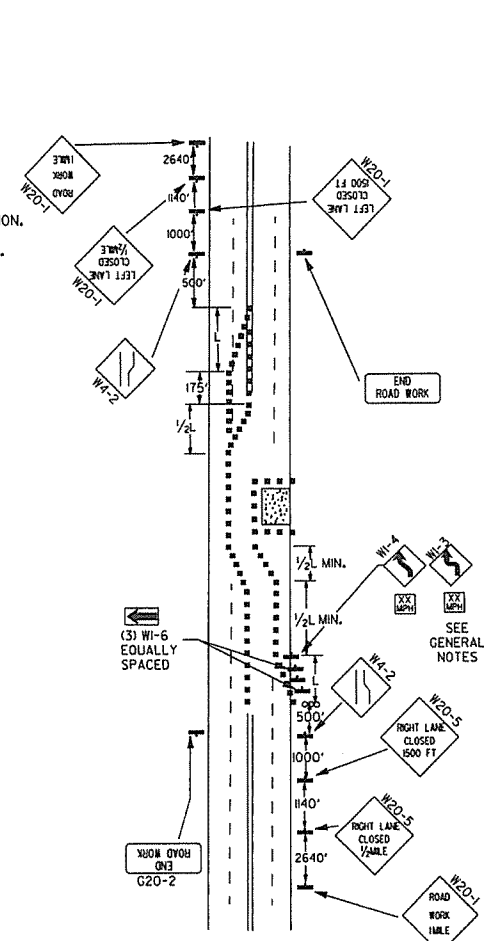
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	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



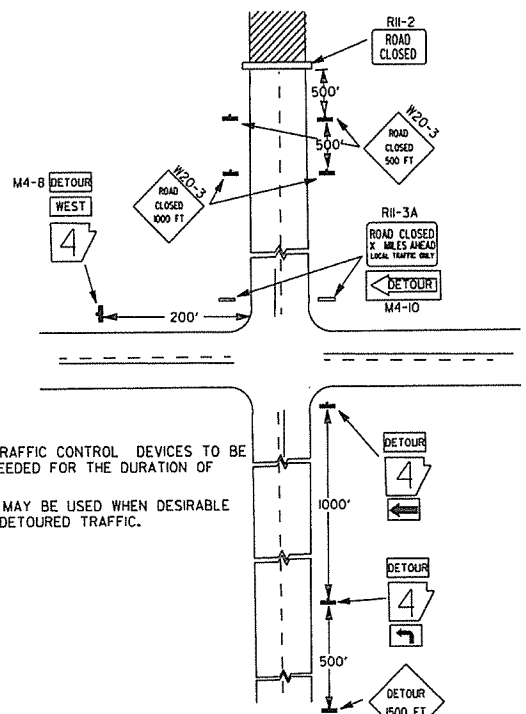
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



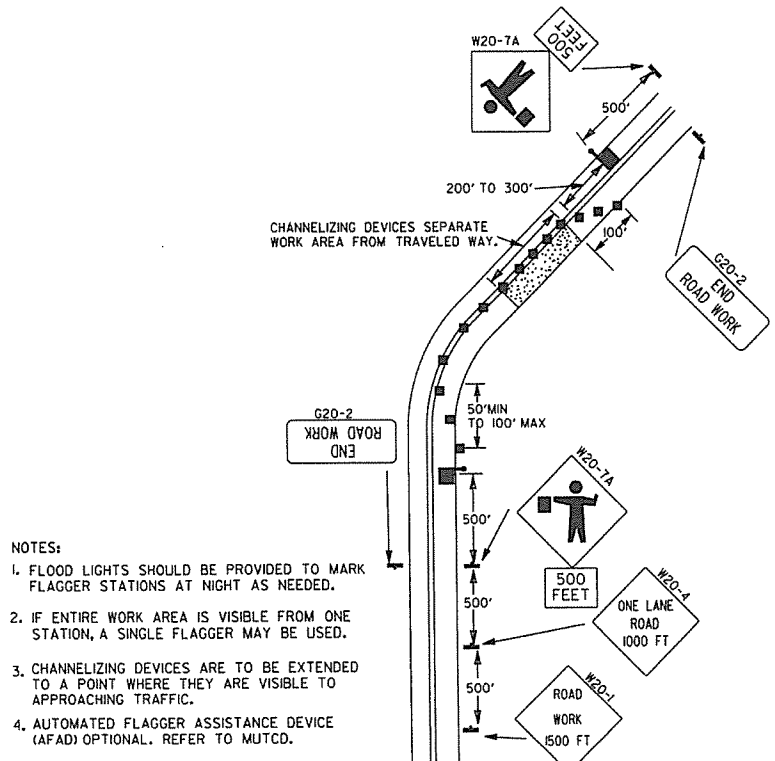
(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



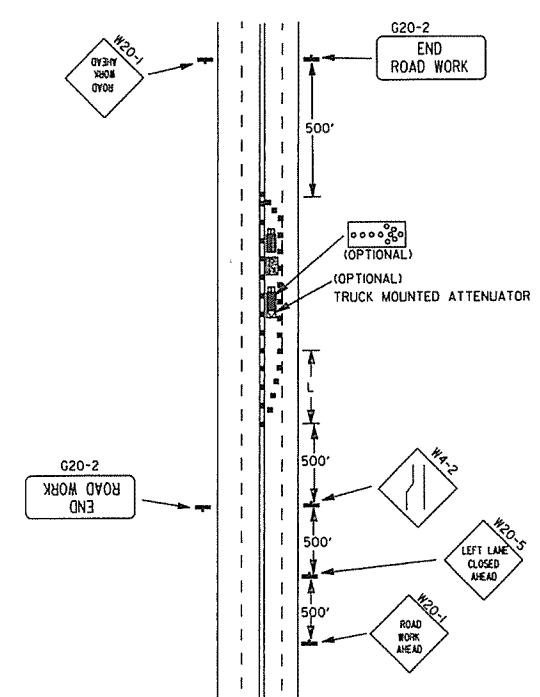
(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



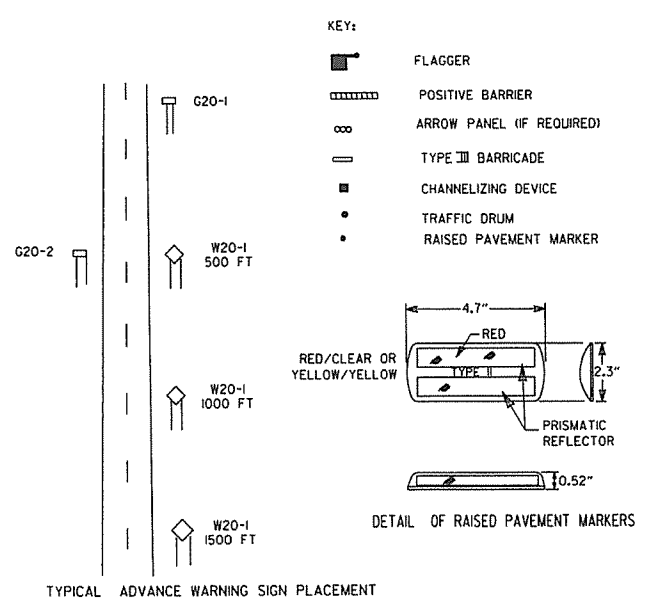
(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

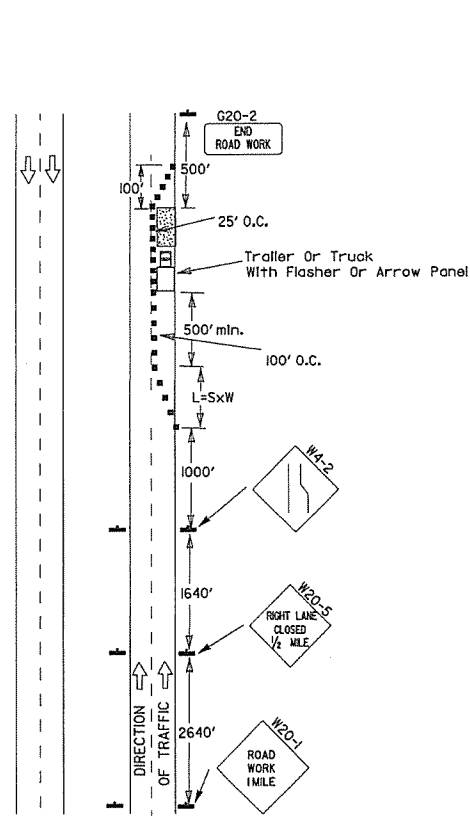


TAPER FORMULAE:  
 $L = SXW$  FOR SPEEDS OF 45MPH OR MORE.  
 $L = \frac{WS^2}{60}$  FOR SPEEDS OF 40MPH OR LESS.  
 WHERE:  
 L = MINIMUM LENGTH OF TAPER.  
 S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.  
 W = WIDTH OF OFFSET.

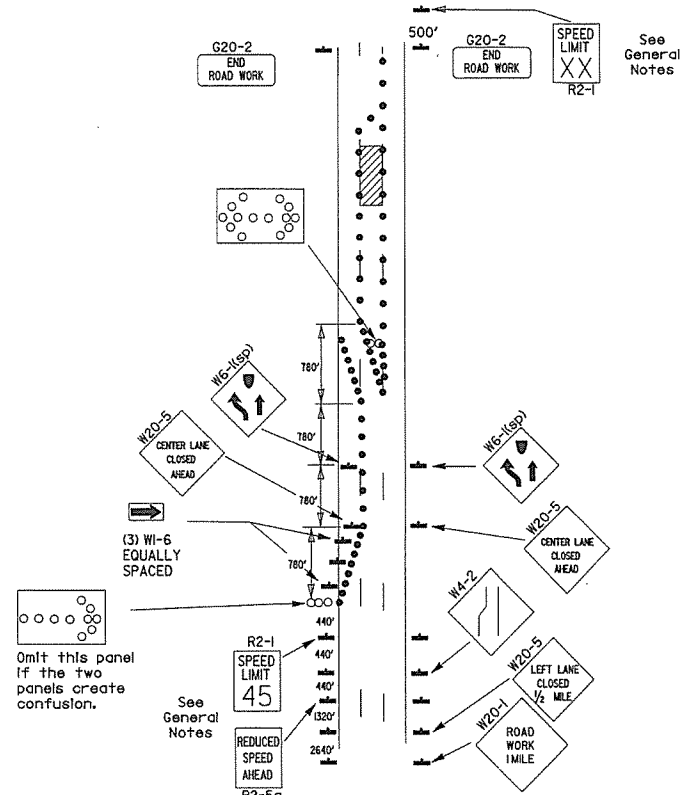
- GENERAL NOTES:
- ADVISORY SPEED POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS.
  - WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-(K55) SHALL BE OMITTED AND THE R2-5A SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-(KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
  - WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-(K65) SHALL BE OMITTED. ADDITIONAL R2-155MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-(KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
  - 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.
  - WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
  - PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
  - 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.

DATE	REVISION	FILMED
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (g) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

Channelizing devices



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

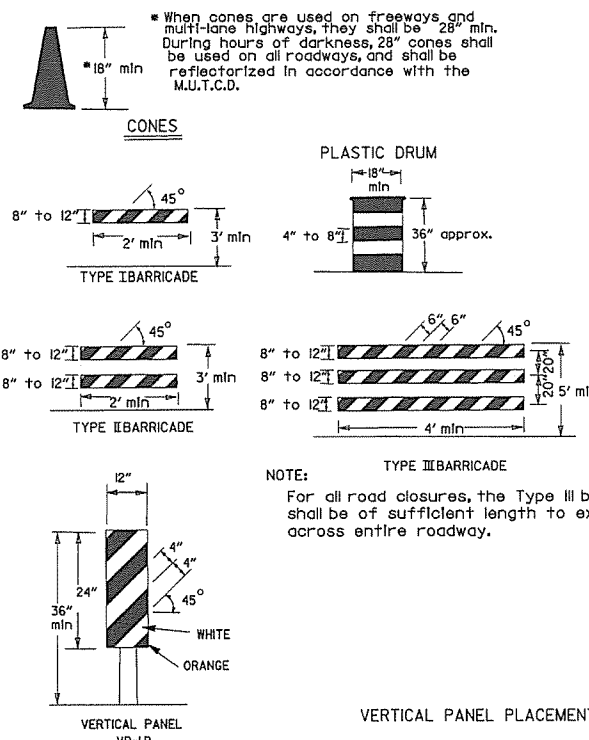


(B) Typical application - 3-lane oneway roadway where center lane is closed.

- KEY:
- ◁▷ Arrow Panel (if Required)
  - Channelizing Device
  - Traffic drum

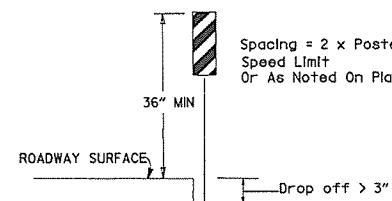
GENERAL NOTES:

1. 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-(55) shall be omitted and the R2-5A shall be installed at that location. Additional R2-145mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-(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-(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-(XX) 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 G20-1 sign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-1 sign shall be erected 125' in advance of the job limit. Additional W20-1 (1/2 MILE) 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.
9. 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.



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

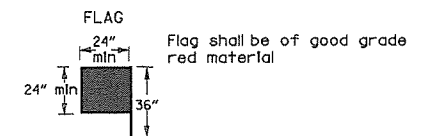
VERTICAL PANEL PLACEMENT



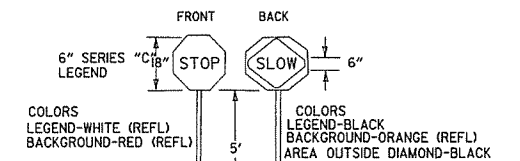
TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-11
1" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-land vertical panels, drums or concrete barrier
Greater than 3"	Edge of shoulder	*Vertical panels, drums or concrete barrier

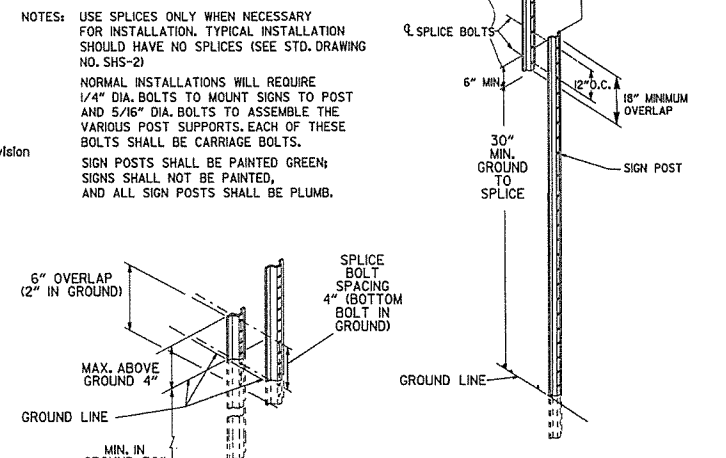
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.



STOP SLOW PADDLE

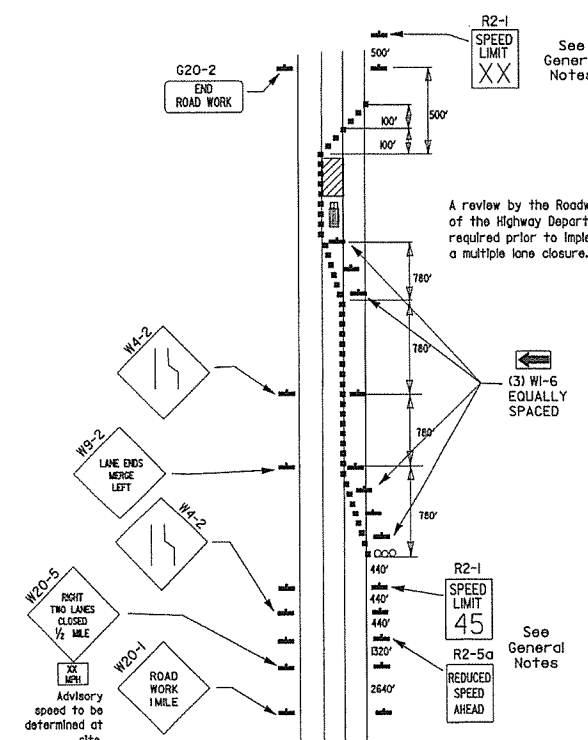


DETAIL OF SPLICES



DATE	REVISION	FILMED
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1 & REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-1	
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	

ARKANSAS STATE HIGHWAY COMMISSION  
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION  
STANDARD DRAWING TC-3

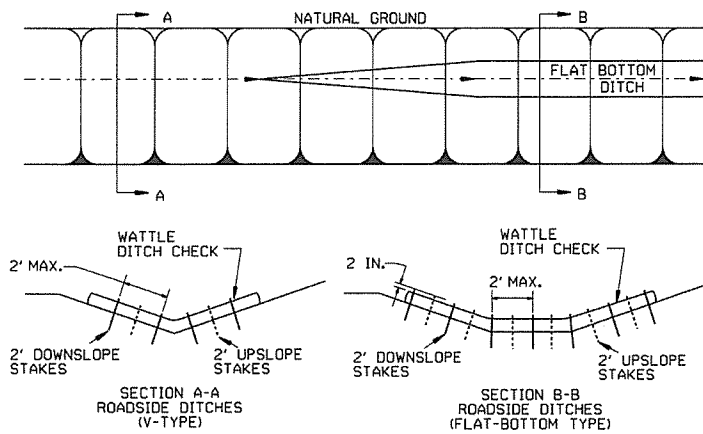


(D) Typical application - closing multiple lanes of a multilane highway.

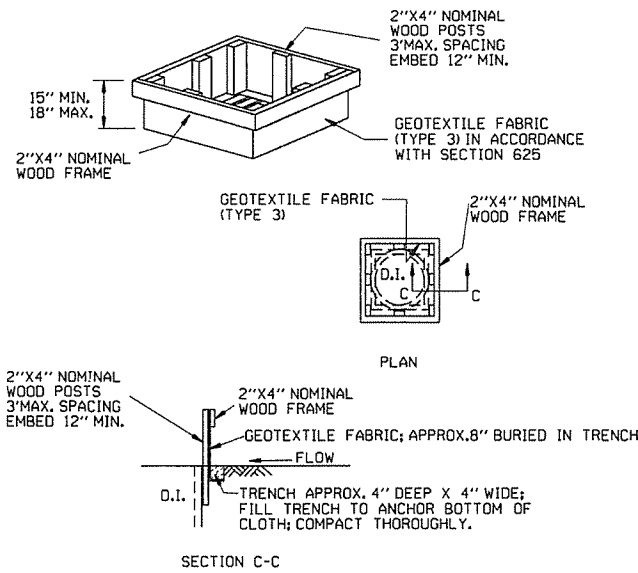
(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.

GENERAL NOTES

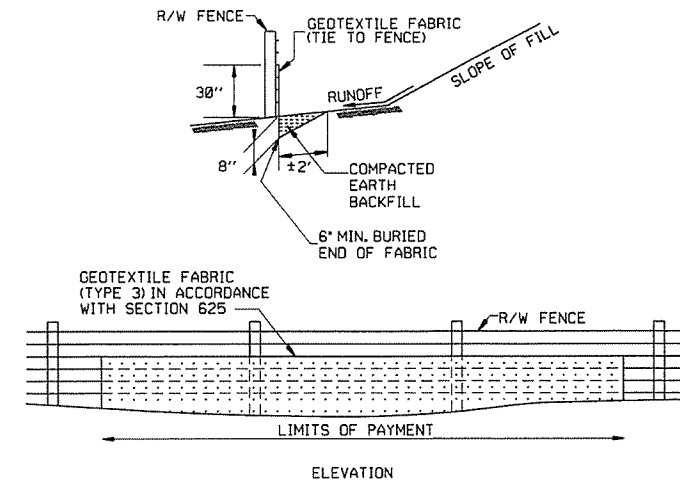
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



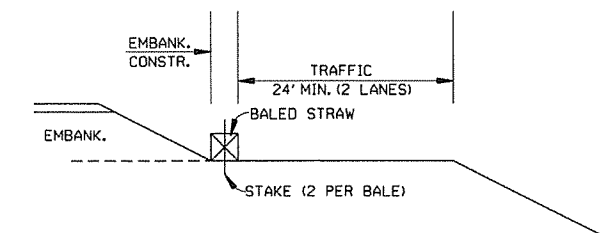
DROP INLET SILT FENCE (E-7)



SILT FENCE ON R/W FENCE (E-4)

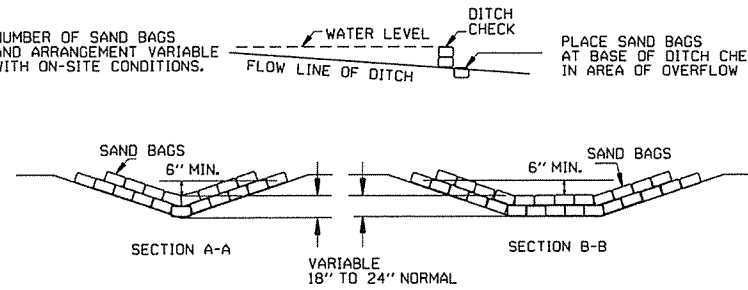
GENERAL NOTES  
 GEOTEXTILE FABRIC SHALL BE SPliced TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

- GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
  2. NO GAPS SHALL BE LEFT BETWEEN BALES.
  3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.

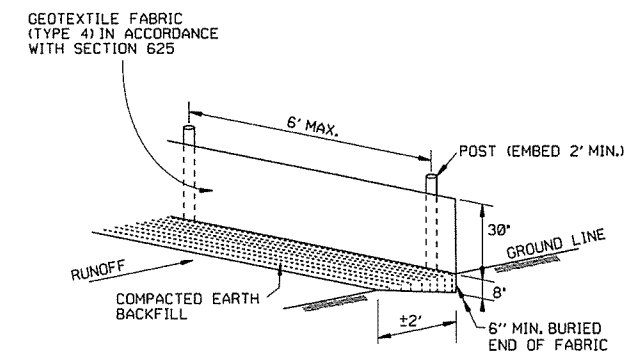


BALED STRAW FILTER BARRIER (E-2)

NUMBER OF SAND BAGS AND ARRANGEMENT VARIABLE WITH ON-SITE CONDITIONS. PLACE SAND BAGS AT BASE OF DITCH CHECK IN AREA OF OVERFLOW

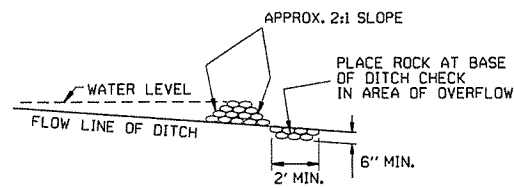


SAND BAG DITCH CHECK (E-5)



SILT FENCE (E-11)

GENERAL NOTES  
 GEOTEXTILE FABRIC SHALL BE SPliced TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



ROCK DITCH CHECK (E-6)

12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK		ARKANSAS STATE HIGHWAY COMMISSION
11-18-98	ADDED NOTES		
7-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)		
7-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95	
7-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC		
6-2-94	REVISED E-1, 4, 7 & 11; DELETED E-2 & 3	6-2-94	
4-1-93	REDRAWN		
10-1-92	REDRAWN		
8-2-76	ISSUED R.D.M.	298-7-28-76	
DATE	REVISION	FILMED	

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-1