

REGISTERED PROFESSIONAL ENGINEER 7

ED ED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID	PROJ.NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.	.				
				J08	NO.	04	0646	2	41	_
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INDEX, GOV. SPECS., AND GENERAL NOTE

INDEX OF SHEETS

SHEET NO. TITLE DRWG. NO. DATE TITLE SHEET INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES 5 TYPICAL SECTIONS OF IMPROVEMENT 6 - 8 SPECIAL DETAILS 9 - 14 TEMPORARY EROSION CONTROL DETAILS 15 - 21 MAINTENANCE OF TRAFFIC 22 - 25 QUANTITIES SUMMARY OF QUANTITIES AND REVISIONS 26 27 - 32 PLAN SHEETS 33 34 35 36 37 STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION TC-I 12-15-II 38 39 STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION TC-2 9-12-13 40 41

GOVERNING SPECIFICATIONS

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

NUMBER	TITLE
FHWA-1273 . FHWA-1273 . FHWA-1273 . FHWA-1273 . FHWA-1273 .	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-NOTICE TO CONTRACTORS SUPPLEMENT-SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140) SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-GOALS AND TIMETABLES SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-FEDERAL STANDARDS SUPPLEMENT-POSTERS AND NOTICES REQUIRED FOR FEDERAL AID PROJECTS
FHWA-1273 .	SUPPLEMENT-WAGE RATE DETERMINATION
	LIQUIDATED DAMAGES
JOB 040646	SCONCRETE DITCH PAVING
	G
JOB 040646 JOB 040646	S
JOB 040646	
	SEQUENCE OF CONSTRUCTION SITE USE (A+C METHOD)
JOB 040646	STORM WATER POLLUTION PREVENTION PLAN SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 040646	TEMPORARY PORTABLE RUMBLE STRIPS
JOB 040646 JOB 040646	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES UTILITY ADJUSTMENTS
JOB 040646	5WARM MIX ASPHALT
	S
JOB 040646	5WIRE ROPE SAFETY FENCE (POST REPAIR)

GENERAL NOTES

JOB 040646 WRSF TRAINING WORKSHOP

- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR
- LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.

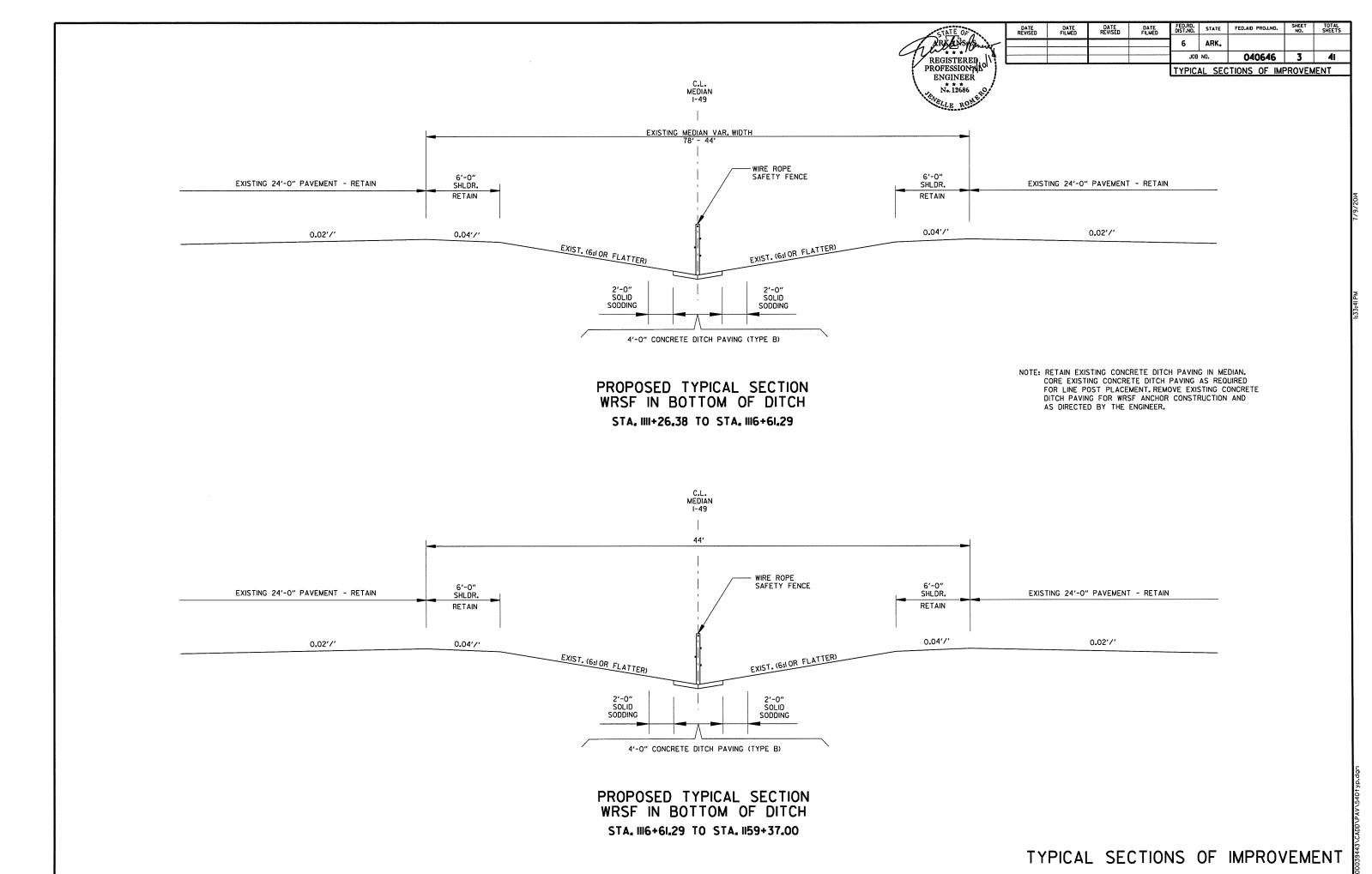
 ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED

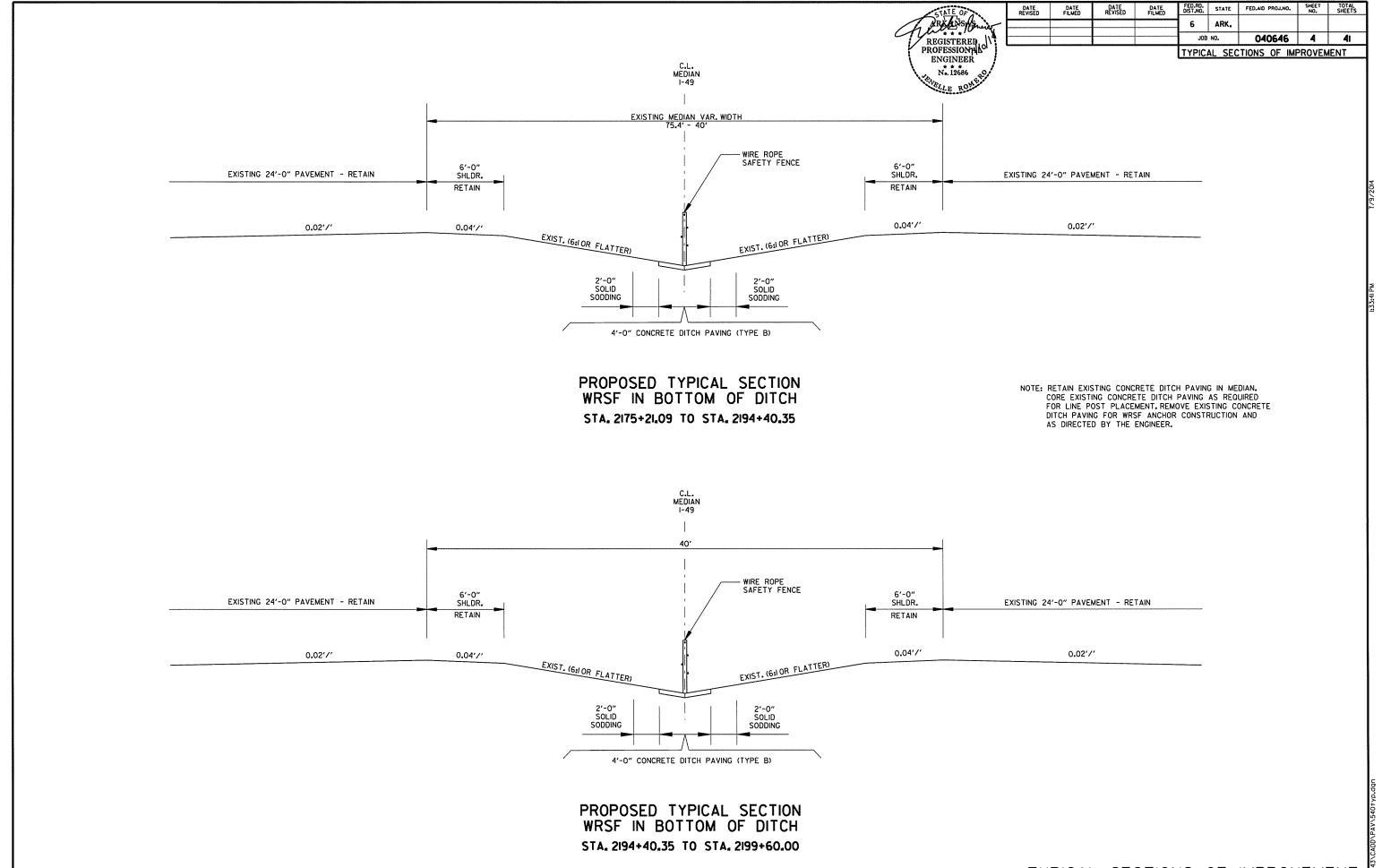
 CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO.210 UNCLASSIFIED EXCAVATION.

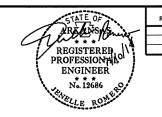
 THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

 WASTE MATERIAL SHALL BE DISPOSED OF AS APPROVED BY THE ENGINEER. ANY REQUIRED EXPOSED CONTRACTOR OF AS APPROVED BY THE BOX APPROVED.
- EROSION CONTROL MEASURES FROM WASTING MATERIAL SHALL BE AS APPROVED BY THE ENGINEER.
- CONTRACTOR TO ADJUST POSTS IN THE FIELD SO THAT EXISTING DRAINAGE STRUCTURES ARE AVOIDED.

INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES

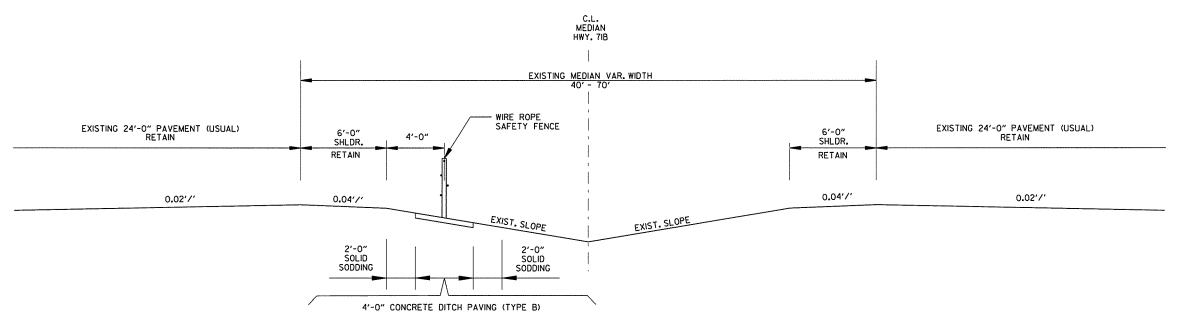




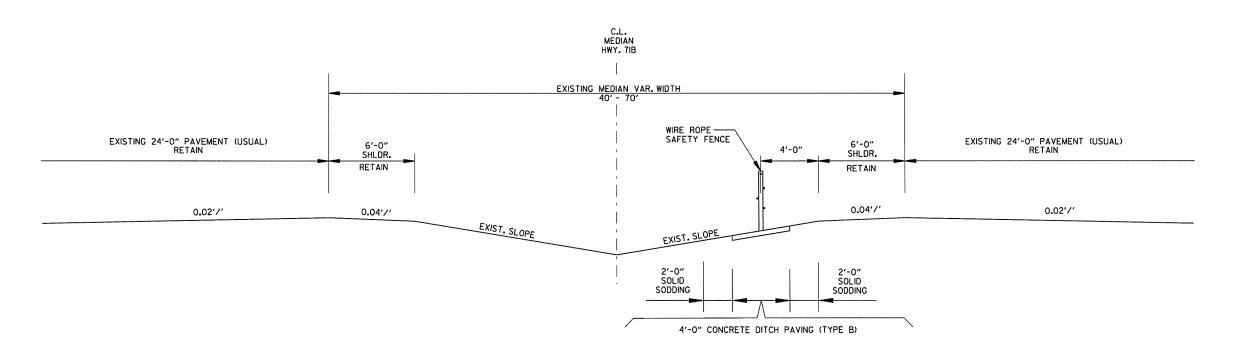


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				6	ARK.				
,	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL	

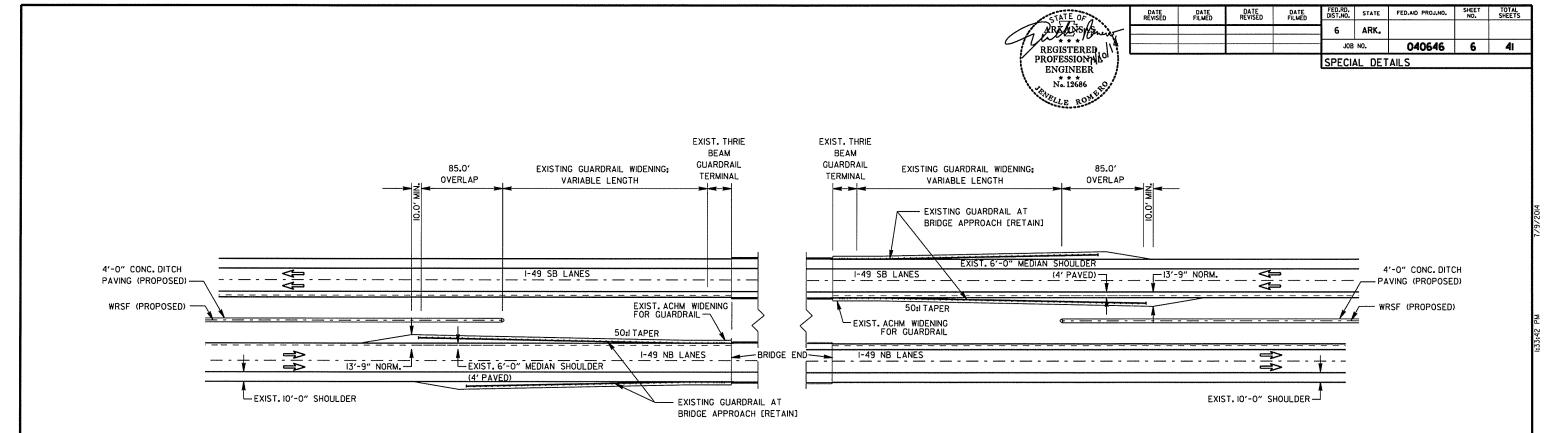
TYPICAL SECTIONS OF IMPROVEMENT



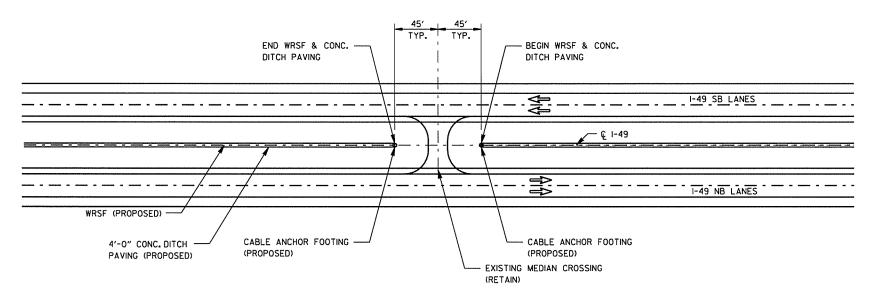
PROPOSED TYPICAL SECTION WRSF ON WB FORESLOPE STA. 506+86.77 TO STA. 520+41.00



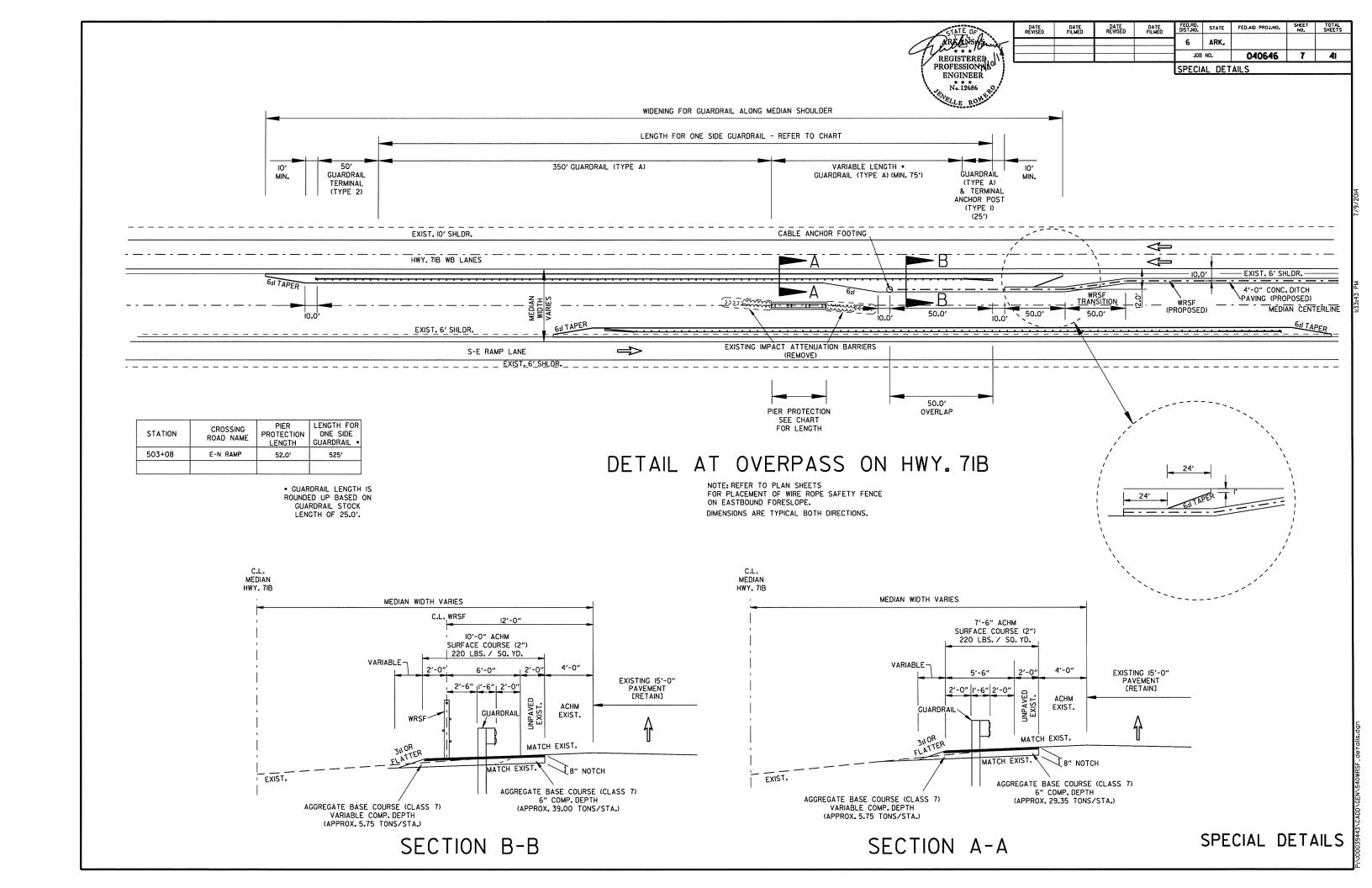
PROPOSED TYPICAL SECTION WRSF ON EB FORESLOPE STA. 523+40.00 TO STA. 575+63.20

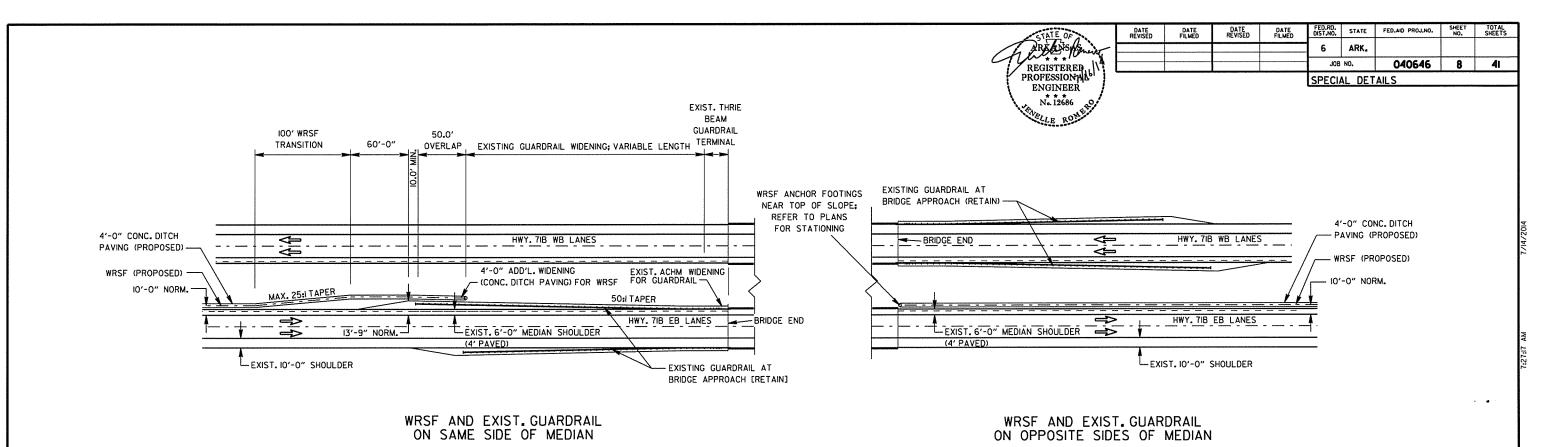


DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS (1-49)

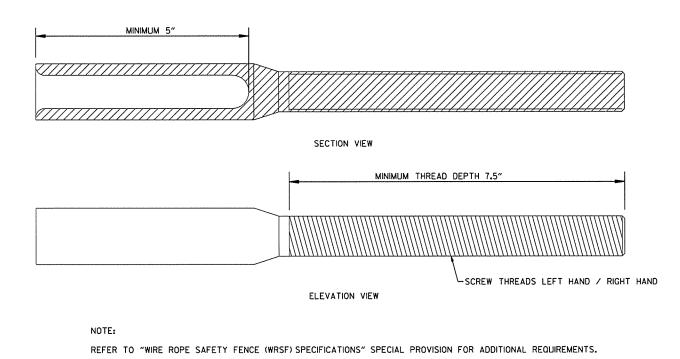


DETAIL AT MEDIAN CROSSING



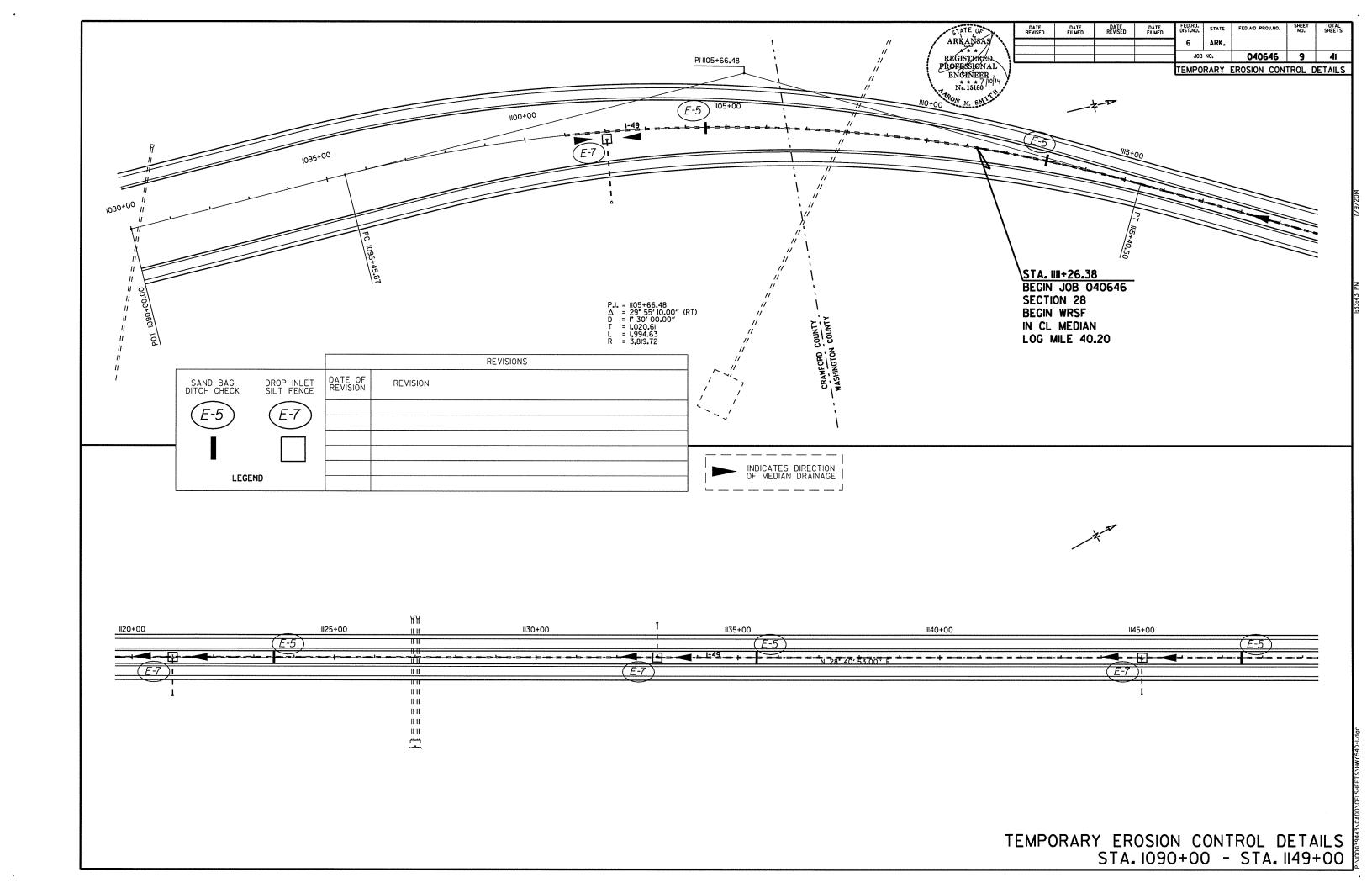


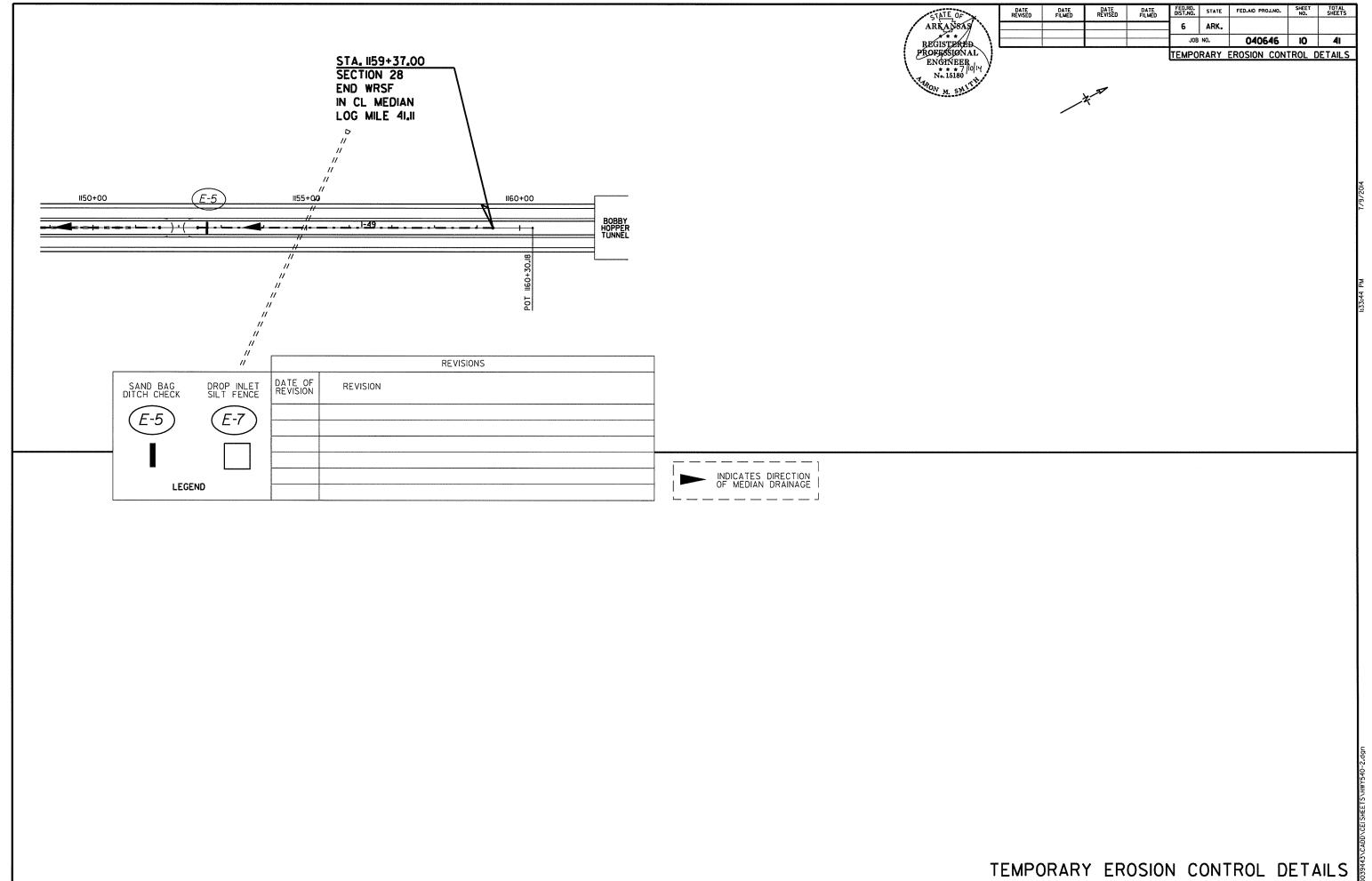
DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS (HWY. 7IB)



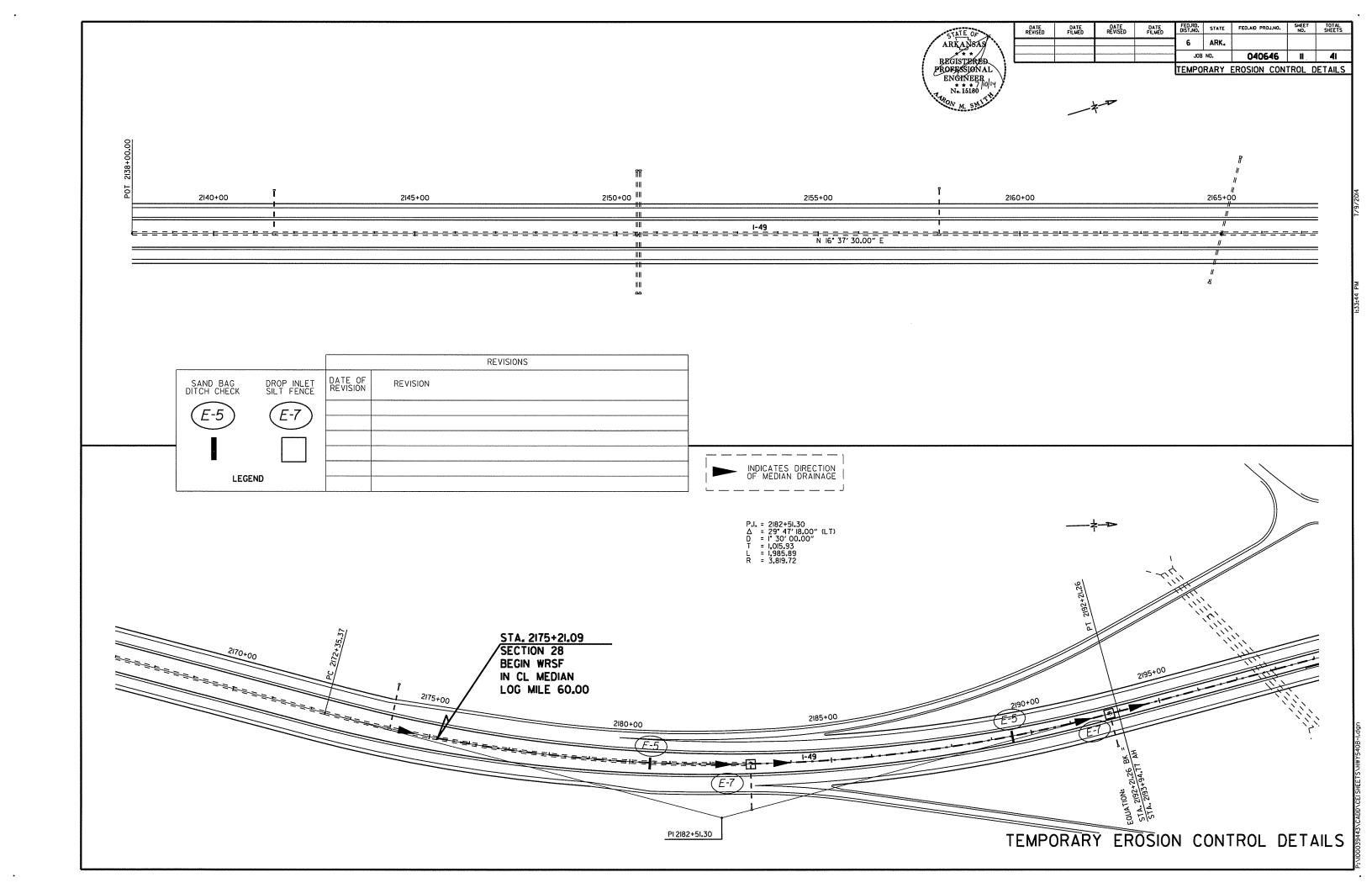
THREADED TERMINAL DETAIL

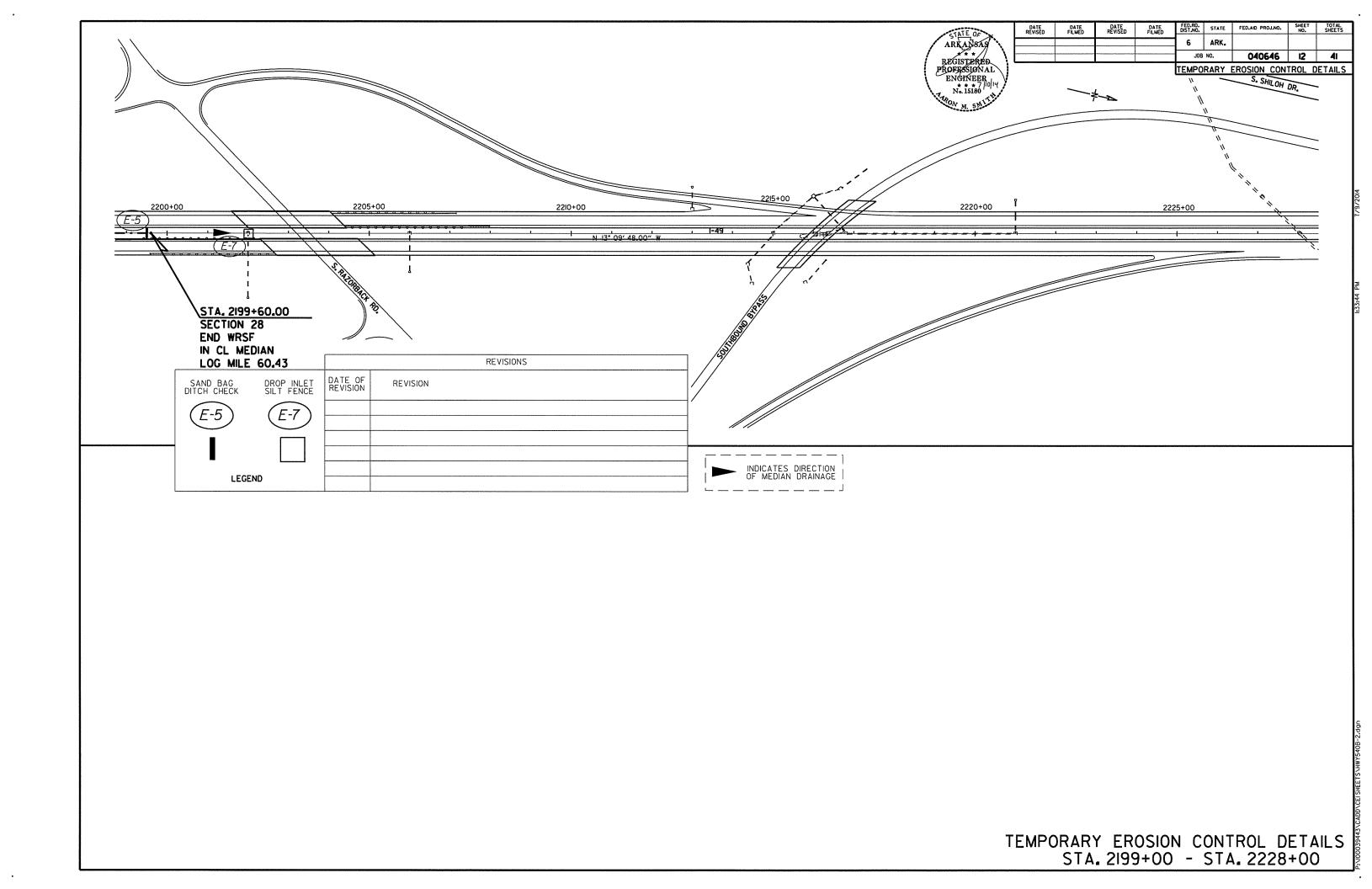
SPECIAL DETAILS

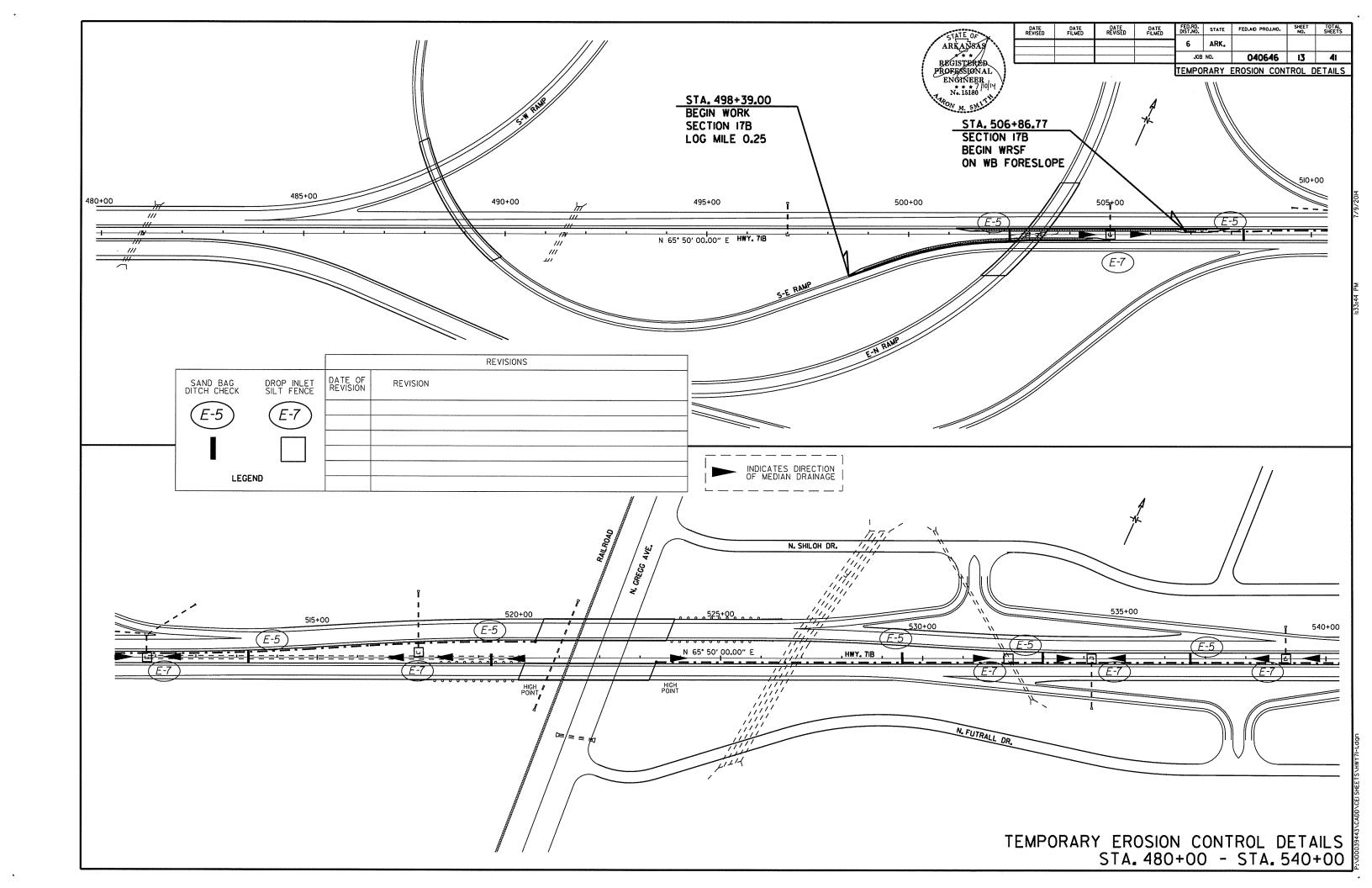


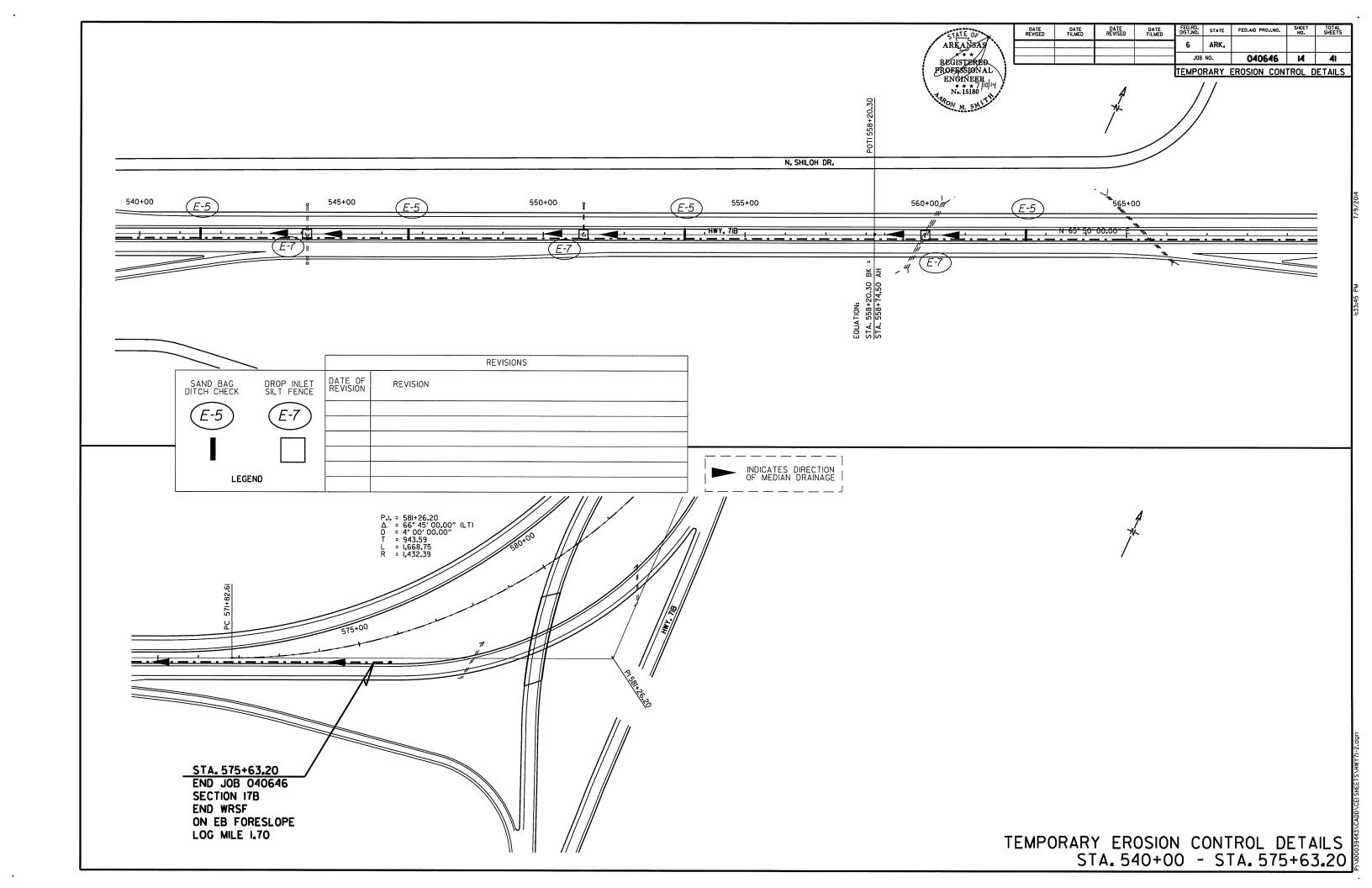


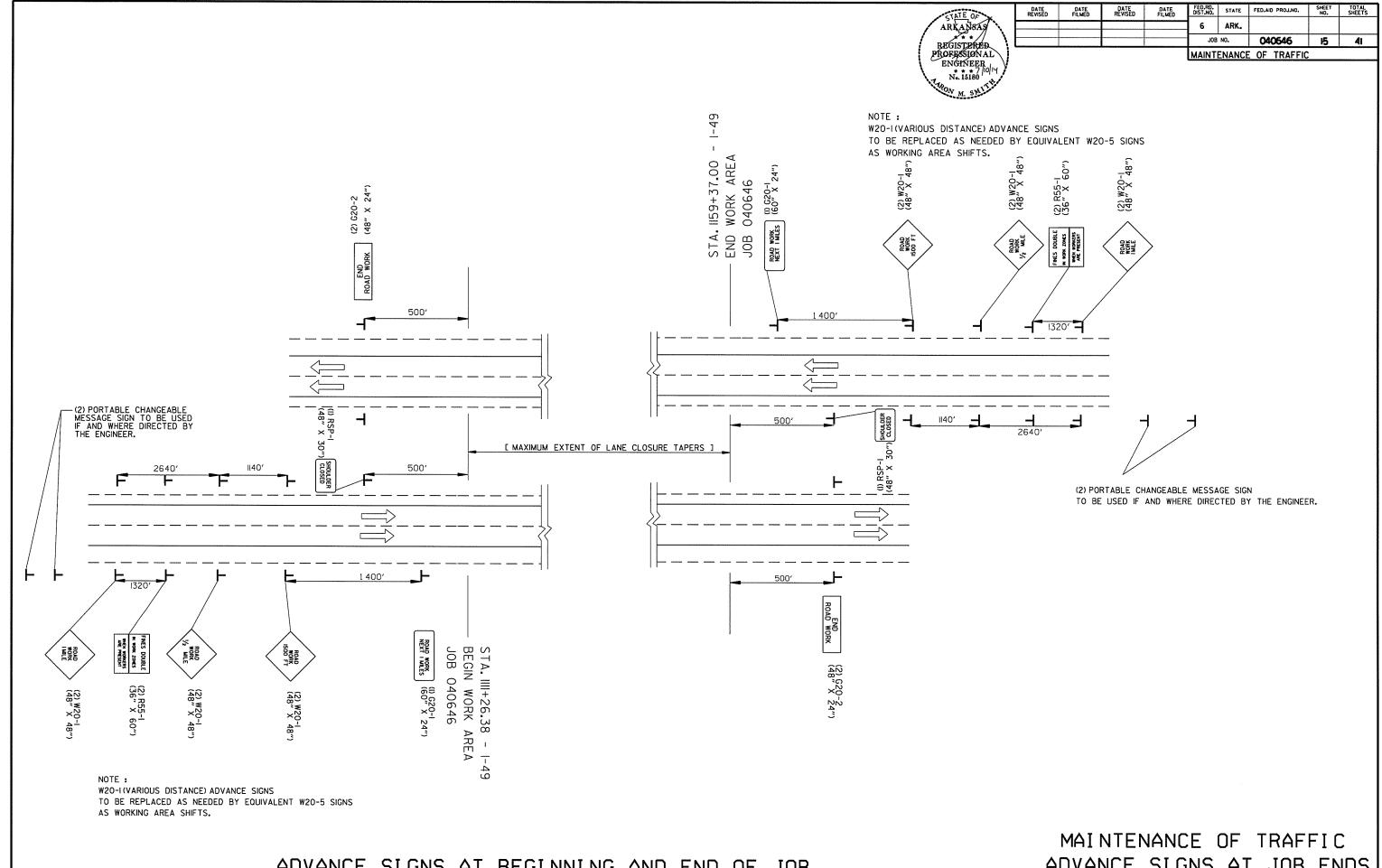
TEMPORARY EROSION CONTROL DETAILS STA. 1149+00 - STA. 1160+30.18





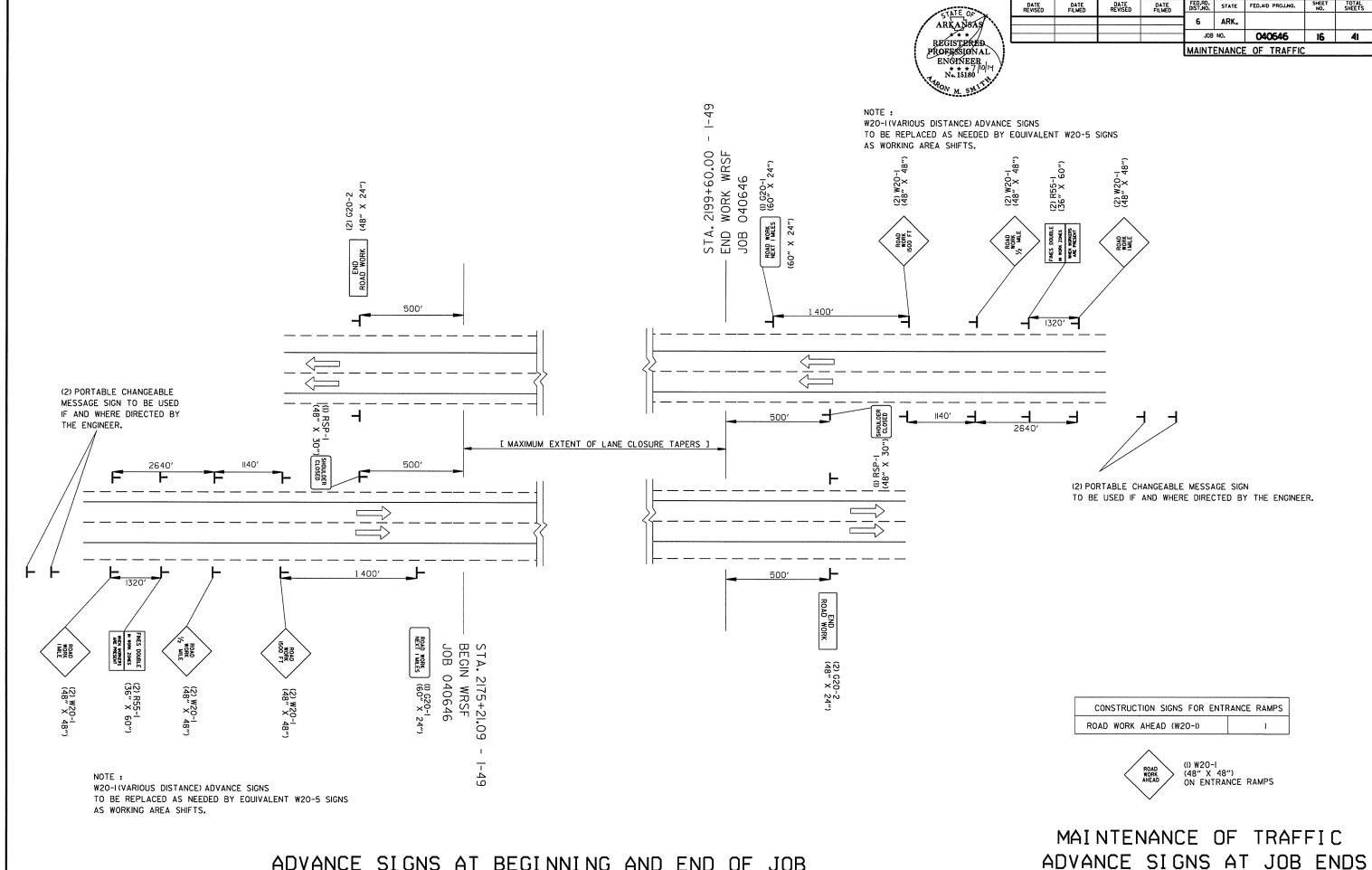






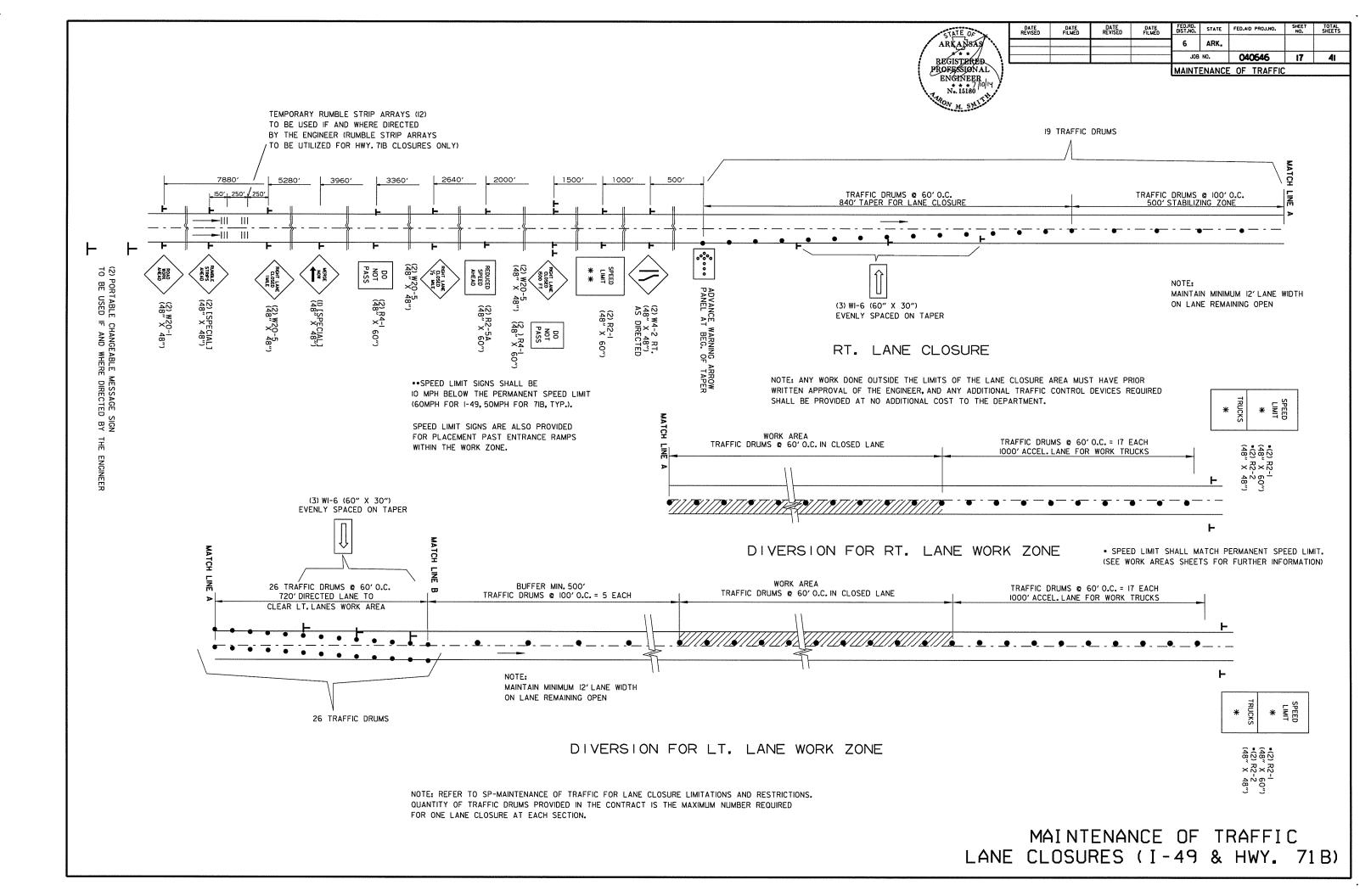
ADVANCE SIGNS AT BEGINNING AND END OF JOB ALL STAGES

ADVANCE SIGNS AT JOB ENDS (I-49)



ADVANCE SIGNS AT BEGINNING AND END OF JOB ALL STAGES

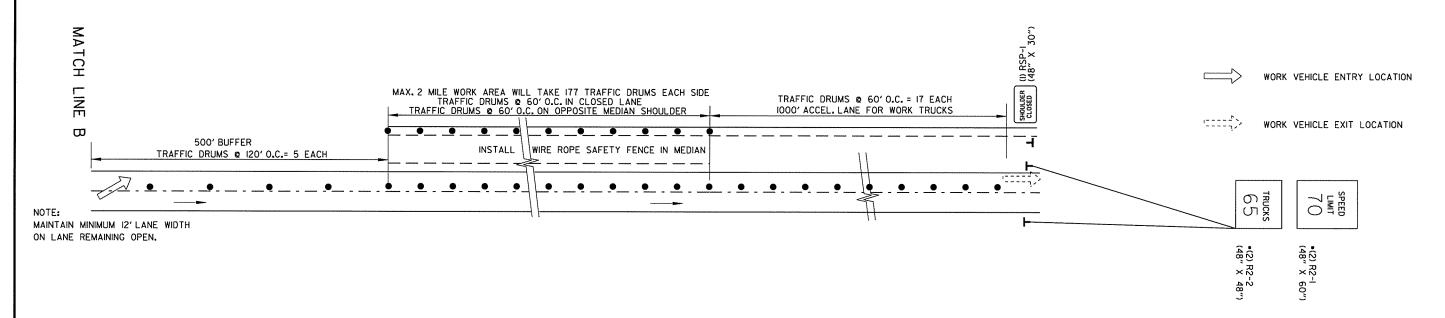
ADVANCE SIGNS AT JOB ENDS (I - 49)



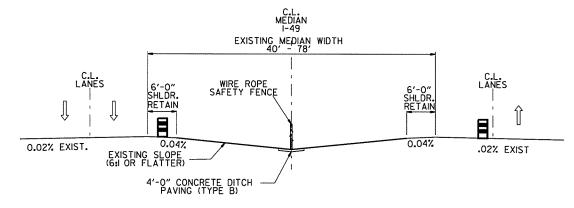


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				6	ARK.			
				JOB	NO.	040646	18	41

MAINTENANCE OF TRAFFIC



• SPEED LIMIT SHALL MATCH PERMANENT SPEED LIMIT.

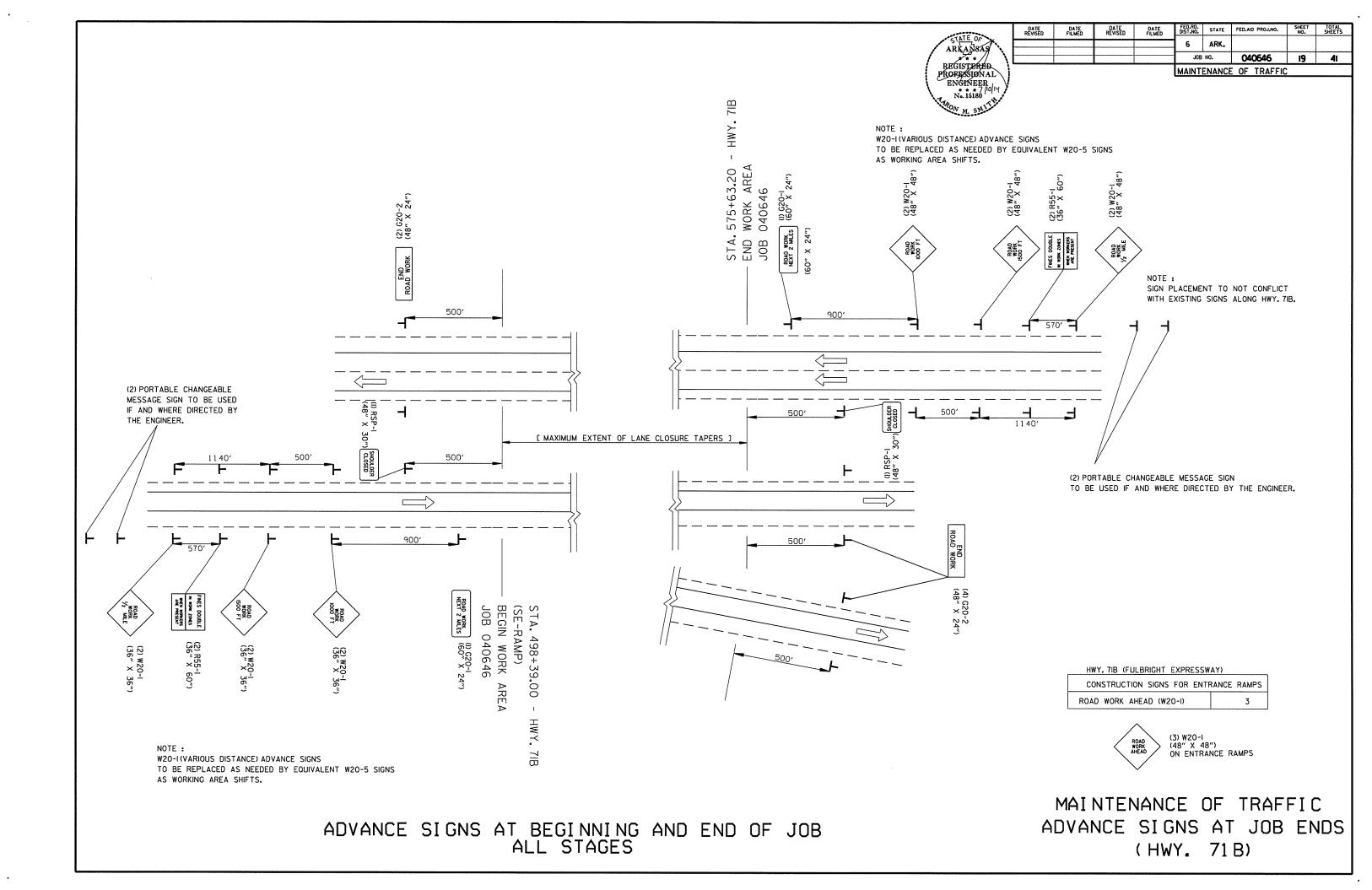


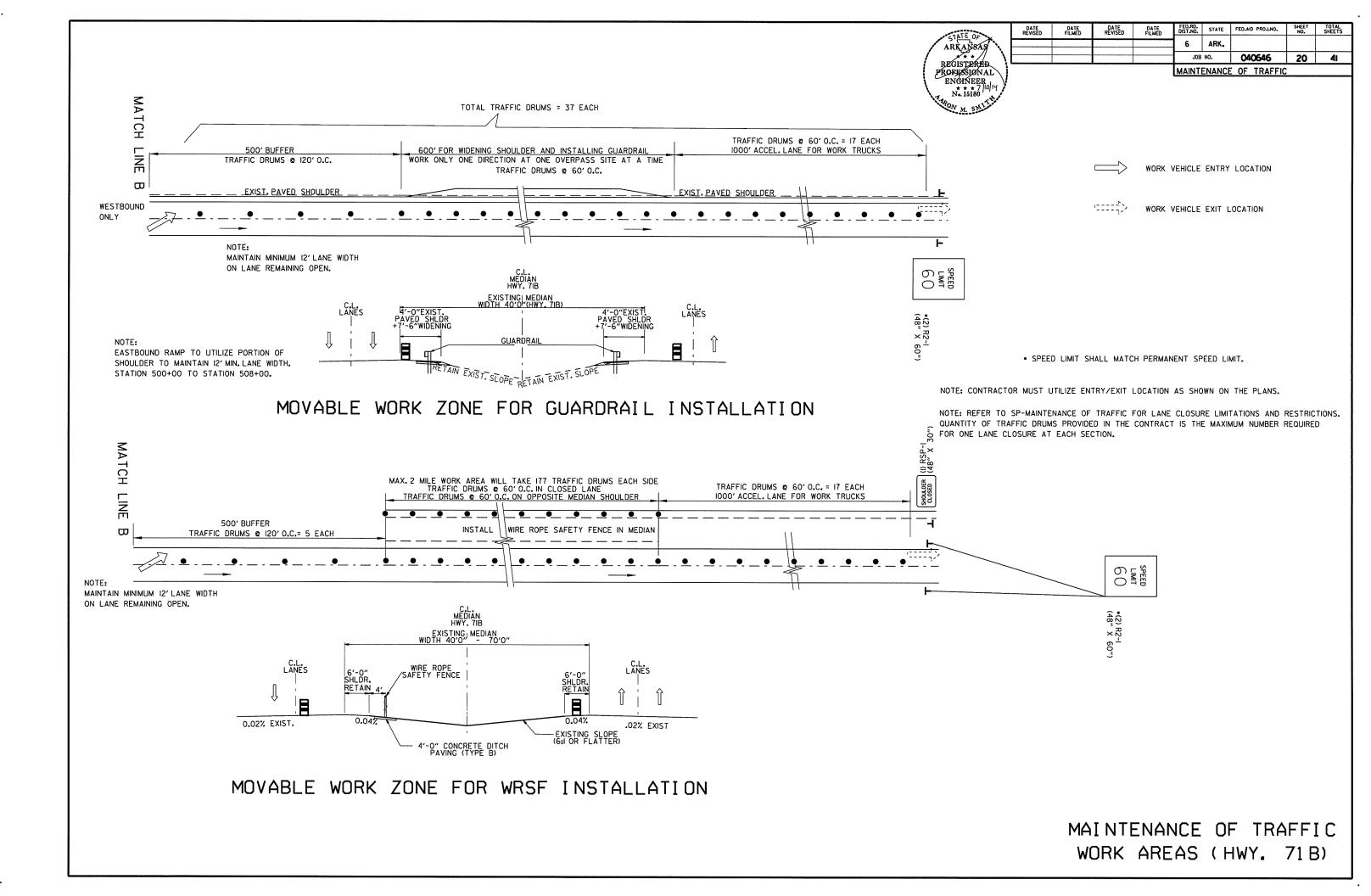
MOVABLE WORK ZONE FOR WRSF INSTALLATION

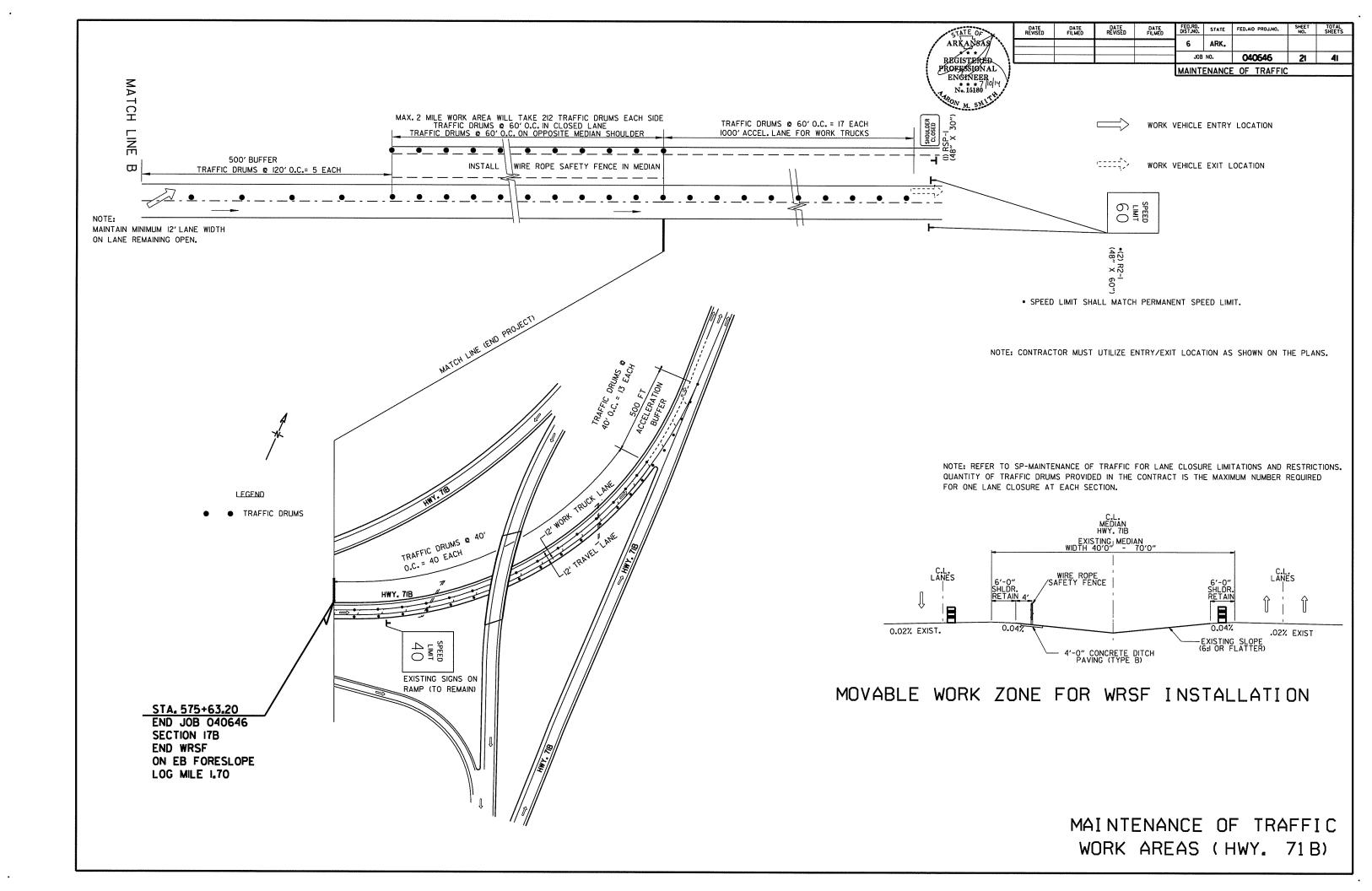
NOTE: REFER TO SP-MAINTENANCE OF TRAFFIC FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE AT EACH SECTION.

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

MAINTENANCE OF TRAFFIC WORK AREAS (I-49)







FROSION CONTROL

			LIVOOI		L							
	TEMPORARY EROSION CONTROL							PERMANENT EROSION CONTROL				
LOCATION	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	4.54	4.54	92.55	400	480	37.8	4.54	9.07	4.54	4.54	462.76	
ENTIRE PROJECT IF AND WHERE DIRECTED BY THE ENGINEER				20	30							
TOTALS:	4.54	4.54	92.55	420	510	37.8	4.54	9.07	4.54	4.54	462.76	

REGISTERED PROFESSIONAL ENGRISER N. 15180 REGISTERED PROFESSION ENGINEER No. 12686

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				6	ARK.			
				JOB	NO.	040646	22	41
				OLIANI	TITIES			

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

GUARDRAIL

BASIS OF ESTIMATE:

LIME... .2 TONS/ACRE OF SEEDING .102.0 M.G./ACRE OF SEEDING WATER.. 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.

★ QUANTITIES ARE ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

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	TEMPORAR PORTABLE RUMBLE STRIPS
			SQ.FT-LIN.FTEA	NO.	SQ. FT.	EACH	DAY	WEEK	EACH
W20-1	ROAD WORK 1MILE	48"X48"	16	8	128			,-,,	
W20-1	ROAD WORK 1/2 MILE	48"X48"	16	10	160			***************************************	
W20-1	ROAD WORK 1500 FT.	48"X48"	16	10	160				
W20-1	ROAD WORK 1000 FT.	48"X48"	16	2	32				
W20-1	ROAD WORK 1/2 MILE	36"X36"	9	2	18				
W20-1	ROAD WORK 1500 FT.	36"X36"	9	2	18				
W20-1	ROAD WORK 1000 FT.	36"X36"	9	2	18				
W20-1	ROAD WORK AHEAD	48"X48"	16	10	160				
G20-1	ROAD WORK NEXT xx MILES	60"X24"	10	6	60				
G20-2	END ROAD WORK	48"X24"	8	14	112		****		
SPECIAL 1	MERGE NOW + ARROW	48"X48"	16	3	48				
SPECIAL 2	RUMBLE STRIPS AHEAD	48"X48"	16	2	32		***************************************		
W20-5	RIGHT LANE CLOSED 1MILE	48"X48"	16	6	96				
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"X48"	16	6	96				
W20-5	RIGHT LANE CLOSED 1500 FT.	48"X48"	16	6	96				
W4-2R	RIGHT LANE CLOSING GRAPHIC	48"X48"	16	6	96				
W1-6	LARGER ARROW	60"X30"	12.5	18	225				
R4-1	DO NOT PASS	48"X60"	20	12	240				
R55-1	FINES DOUBLE IN WORK ZONES	36"X60"	15	12	180				
R2-5A	REDUCED SPEED AHEAD	48"X60"	20	6	120				
R2-1	SPEED LIMIT 60 MPH	48"X60"	20	6	120				
R2-1	SPEED LIMIT 70 MPH	48"X60"	20	4	80				
R2-1	SPEED LIMIT 50 MPH	48"X60"	20	2	40				<u> </u>
R2-2	TRUCKS 65	48"X60"	20	4	80				
RSP-1	SHOULDER CLOSED	48"X30"	20	9	180				
	TRAFFIC DRUMS		4000			4000			
			1263			1263			
	TEMPORARY PORTABLE RUMBLE STRIPS								24
	ADVANCE WARNING ARROW PANEL		3				75		
	PORTABLE CHANGEABLE MESSAGE SIGN		12					228	
OTALS:					2595	1263	75	228	24

STATION	STATION	LOCATION	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
			LIN.FT.	EAC	H
498+82.00	504+57.00	RT. SHLDR. AT E-N RAMP OVERPASS (HWY. 71B)	525	1	1
501+62.00	507+37.00	LT. SHLDR. AT E-N RAMP OVERPASS (HWY. 71B)	525	1	1
TOTALS:			1050	2	2

REMOVAL AND DISPOSAL ITEMS

STATION	DESCRIPTION	IMPACT ATTENUATION BARRIER	REMOVAL AND DISPOSAL OF CONCRETE DITCH PAVING
		EACH	SQ YD
503+08	ON CENTERLINE OF MEDIAN (HWY, 71B)	2	
* ENTIRE PROJECT - AS DIRE	CTED BY THE ENGINEER		225
TOTALO.			
TOTALS:	- AMMINISTRA	2	225

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

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

QUANTITIES

QUANTITIES

CONCRETE DITCH PAVING

STATION	STATION	STATION EQUATION	LOCATION	LENGTH	WIDTH	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
				FEET	FEET	SQ.Y	D.	M.GAL.
1152+45.00	1159+37.00		CL MEDIAN OF I-49	692	4	308	308	3.9
2183+00.00	2192+21.26	BK.	CL MEDIAN OF I-49	921	4	409	409	5.2
2193+94.77	2199+60.00	AHD.	CL MEDIAN OF I-49	565	4	251	251	3.2
507+59.00	520+41.00		LT, OF CL HWY, 71B	1282	4	570	570	7.2
523+40.00	558+20.30	BK.	RT. OF CL HWY. 71B	3480	4	1547	1547	19.5
558+74.50	575+63.20	AHD.	RT. OF CL HWY. 71B	1689	4	751	751	9.5
OTALS:						3836	3836	48.5

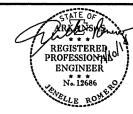
BASIS OF ESTIMATE: WATER..... ...12.6 GAL. / SQ. YD. OF SOLID SODDING.

WIRE ROPE SAFETY FENCE

			RE RUPE SAFELLE	LITOL			
STATION	STATION	STATION EQUATION	LOCATION	WIRE ROPE SAFETY FENCE		WRSF MAINTENANCE MATERIALS	WRSF POST REPAIR
				LIN. FT.	EACH	LUMP SUM	EACH
1111+26.38	1151+55.00		CL MEDIAN OF 1-49	4029	2	LOINI COM	
1152+45.00	1159+37.00		CL MEDIAN OF I-49	692	2		
2175+21.09	2192+21.26	BK.	CL MEDIAN OF I-49	1700	1		
2193+94.77	2199+60.00	AHD.	CL MEDIAN OF I-49	565	1		
506+87.77	520+41.00		LT. OF CL HWY. 71B	1353	2		
523+40.00	558+20.30	BK.	RT. OF CL HWY. 71B	3480	1		
558+74.50	575+63.20	AHD.	RT. OF CL HWY. 71B	1689	1		
~ 1							

		www.					
ENTIRE PROJEC	OT .						50
ENTIRE PROJEC	CT	***************************************				1.00	
TOTALS:				13508	10	1.00	50

- ♦ THIS ITEM SHOWN FOR INFORMATION ONLY.
- ★ QUANTITY IS ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.



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				6	ARK.			
				JOB	NO.	040646	24	41
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BASE AND SURFACING

	DIACE AND CONTROL								
STATION STATION		DN LOCATION	LENGTH	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
498+39.00	505+00.00	RT. SHLDR. AT E-N RAMP OVERPASS (HWY. 71B)	FEET 661.00	35.10	232.01	7.20	528.80	220.00	58.17
501+19.00	507+95.00	LT. SHLDR. AT E-N RAMP OVERPASS (HWY. 71B)	676.00	36.92	249.58	7.50	563.33	220.00	61.97
					2,0,00	7.00	000.00		01.01
									\vdash

								-	

TOTALS:				1177.11	481.59		1092.13		120.14
BASIS OF EST	THANTC:								

REGISTERED PROFESSIONALO ENGINEER
No. 12686

				JOB	NO.	040646	25	41
				6	ARK.			
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QUANTITIES

EARTHWORK

STATION	STATION	LOCATION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU	. YD.
498+39	505+00	RT. SHLDR. AT E-N RAMP OVERPASS (HWY. 71B)	86	17
501+19	507+95	LT. SHLDR. AT E-N RAMP OVERPASS (HWY. 71B)	88	27
				·
				
ENTIRE PROJ	ECT - AS DIRE	CTED BY THE ENGINEER	500	500
	·····			
TOTALS:			674	544

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

* QUANTITIES ARE ESTIMATED FOR SLOPE MODIFICATION. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

SUMMARY OF QUANTITIES

	CONTINUATE OF SCHOOL OF SC		
ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER	2	EACH
202	REMOVAL AND DISPOSAL OF CONCRETE DITCH PAVING	225	SQ. YD.
210	UNCLASSIFIED EXCAVATION	674	CU.YD.
210	COMPACTED EMBANKMENT	544	CU. YD.
303	AGGREGATE BASE COURSE (CLASS 7)	482	TON
SP, SS & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	113	TON
SP, SS & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	7	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	2595	SQ.FT.
604	TRAFFIC DRUMS	1263	EACH
604	ADVANCE WARNING ARROW PANEL	75	DAY
SP & 604	PORTABLE CHANGEABLE MESSAGE SIGN	228	WEEK
SP & 605	CONCRETE DITCH PAVING (TYPE B)	3836	SQ.YD.
617	GUARDRAIL (TYPE A)	1050	LIN.FT.
617	TERMINAL ANCHOR POSTS (TYPE 1)	2	EACH
617	GUARDRAIL TERMINAL (TYPE 2)	2	EACH
620	SEEDING	4.54	ACRE
620	LIME	9	TON
SS & 620	MULCH COVER	9.08	ACRE
620	WATER	603.8	M.GAL.
621	TEMPORARY SEEDING	4.54	ACRE
621	SAND BAG DITCH CHECKS	420	BAG
621	DROP INLET SILT FENCE	510	LIN.FT.
621	SEDIMENT REMOVAL AND DISPOSAL	38	CU. YD.
623	SECOND SEEDING APPLICATION	4.54	ACRE
624	SOLID SODDING	3836	SQ.YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	TEMPORARY PORTABLE RUMBLE STRIPS	24	EACH
SP	WIRE ROPE SAFETY FENCE	13508	LIN.FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE (POST REPAIR)	50	EACH

REVISIONS

DATE	REVISION	SHEET NUMBER

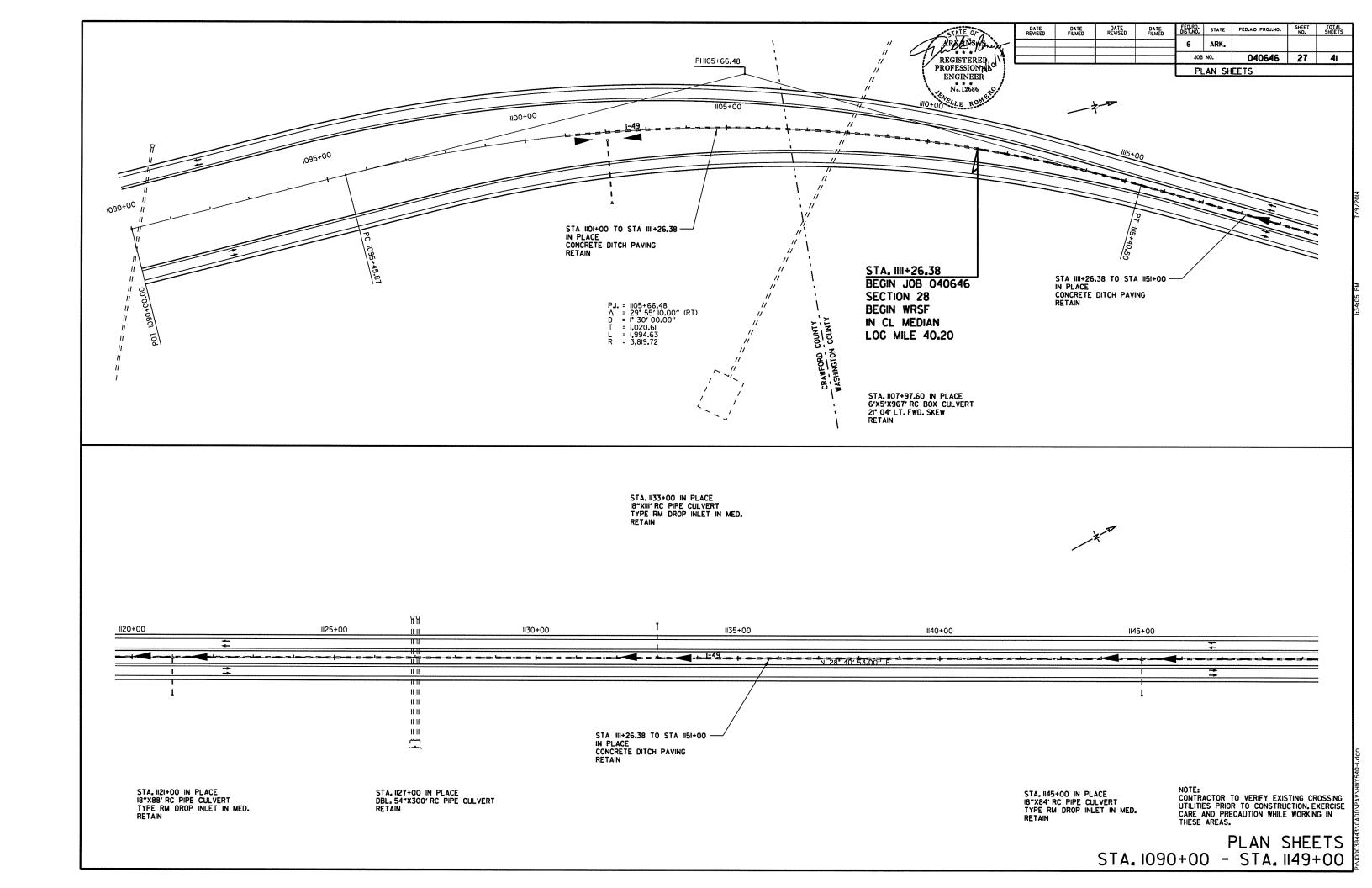
REGISTERED PROFESSIONAL ENGINEER No. 12660 1414 REGISTERED PROFESSIONAL ENGINEER No. 15180

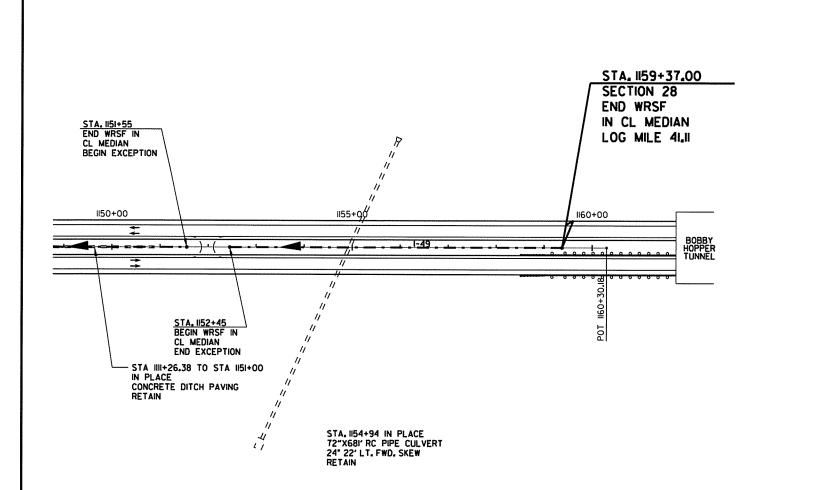
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				6	ARK.			
				JOB	NO.	040646	26	41
				SHMMA	RY OF	OLIANTITIES	AND F	FVISIONS

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

RESPONSIBLE FOR ALL
OTHER QUANTITIES

SUMMARY OF QUANTITIES AND REVISIONS





REGISTERED PROFESSION NO. 12686

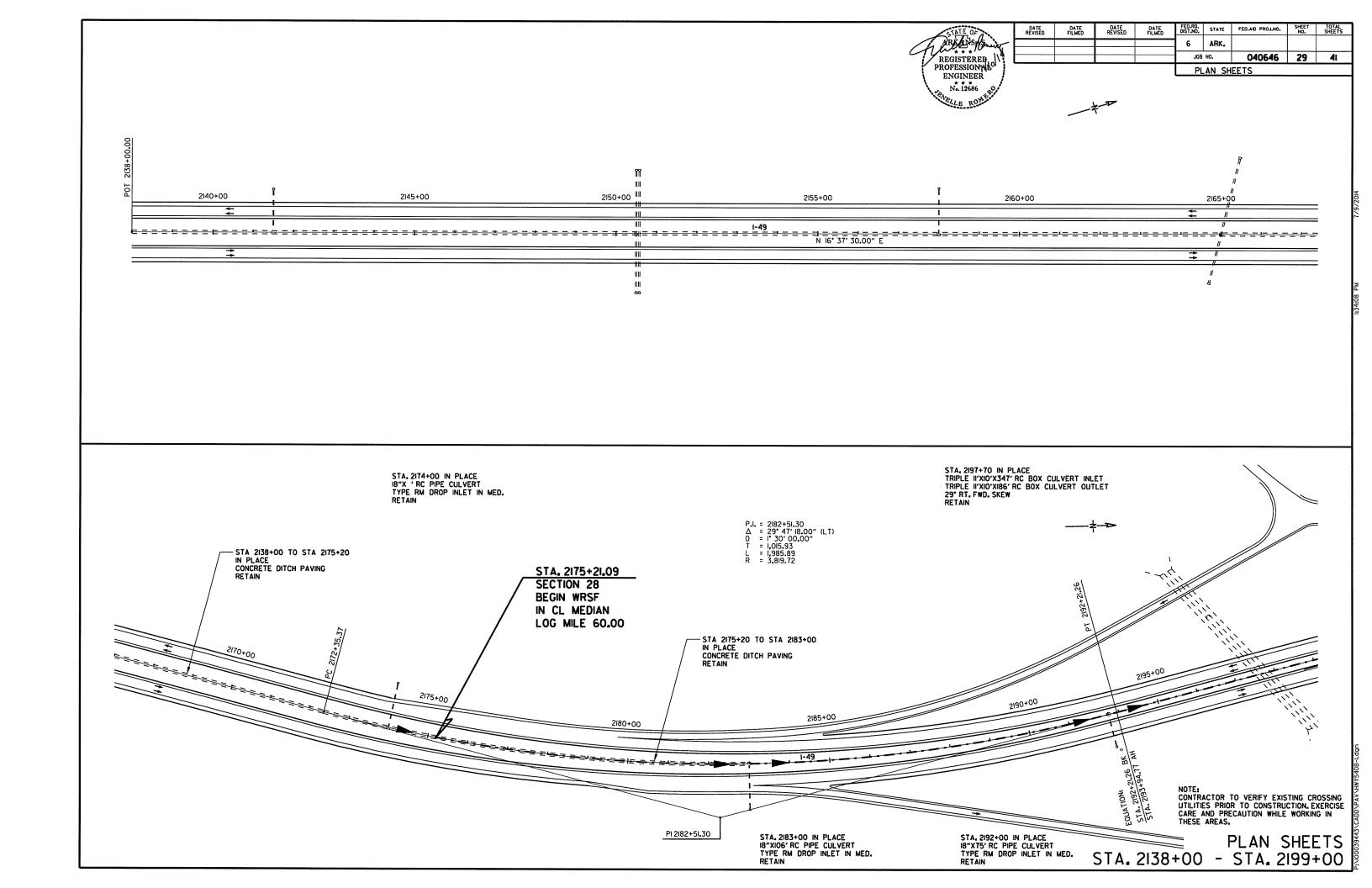
				JOB	NO.	040646	28	41
				6	ARK.			
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET	TOTAL SHEETS

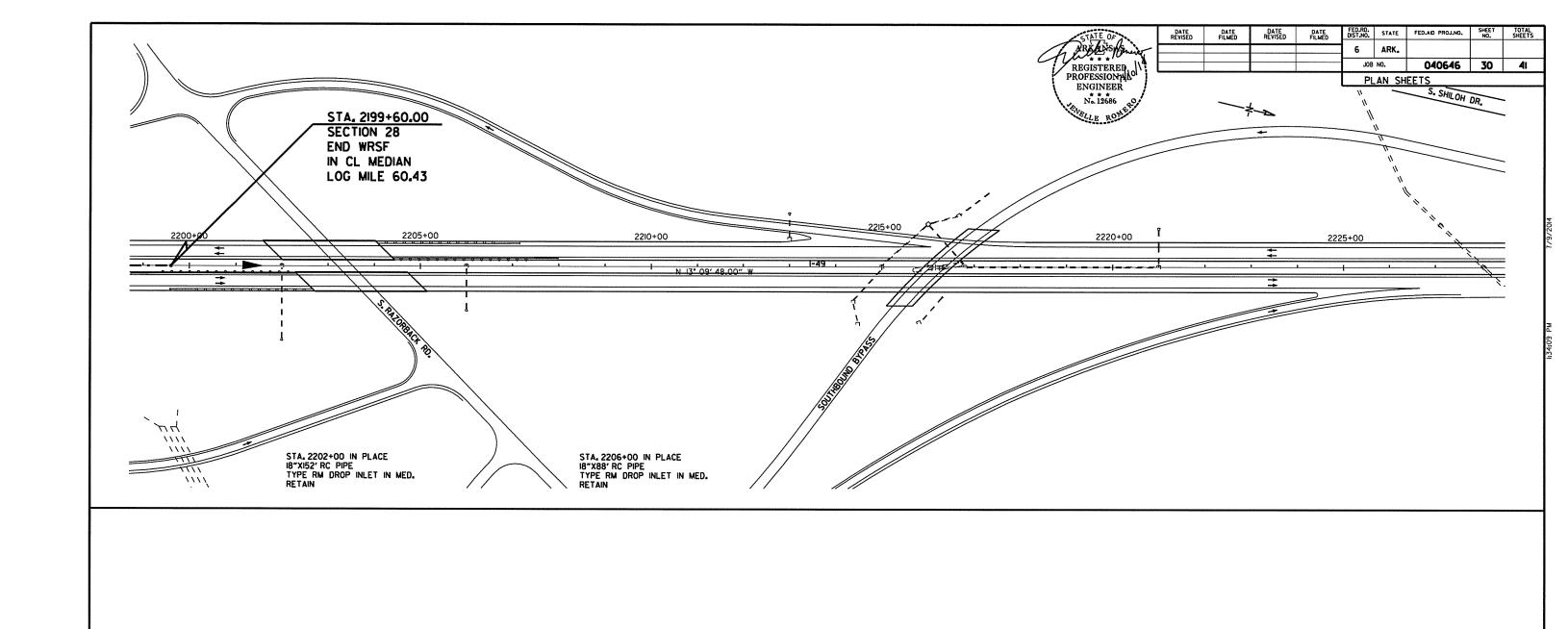
PLAN SHEETS

- X

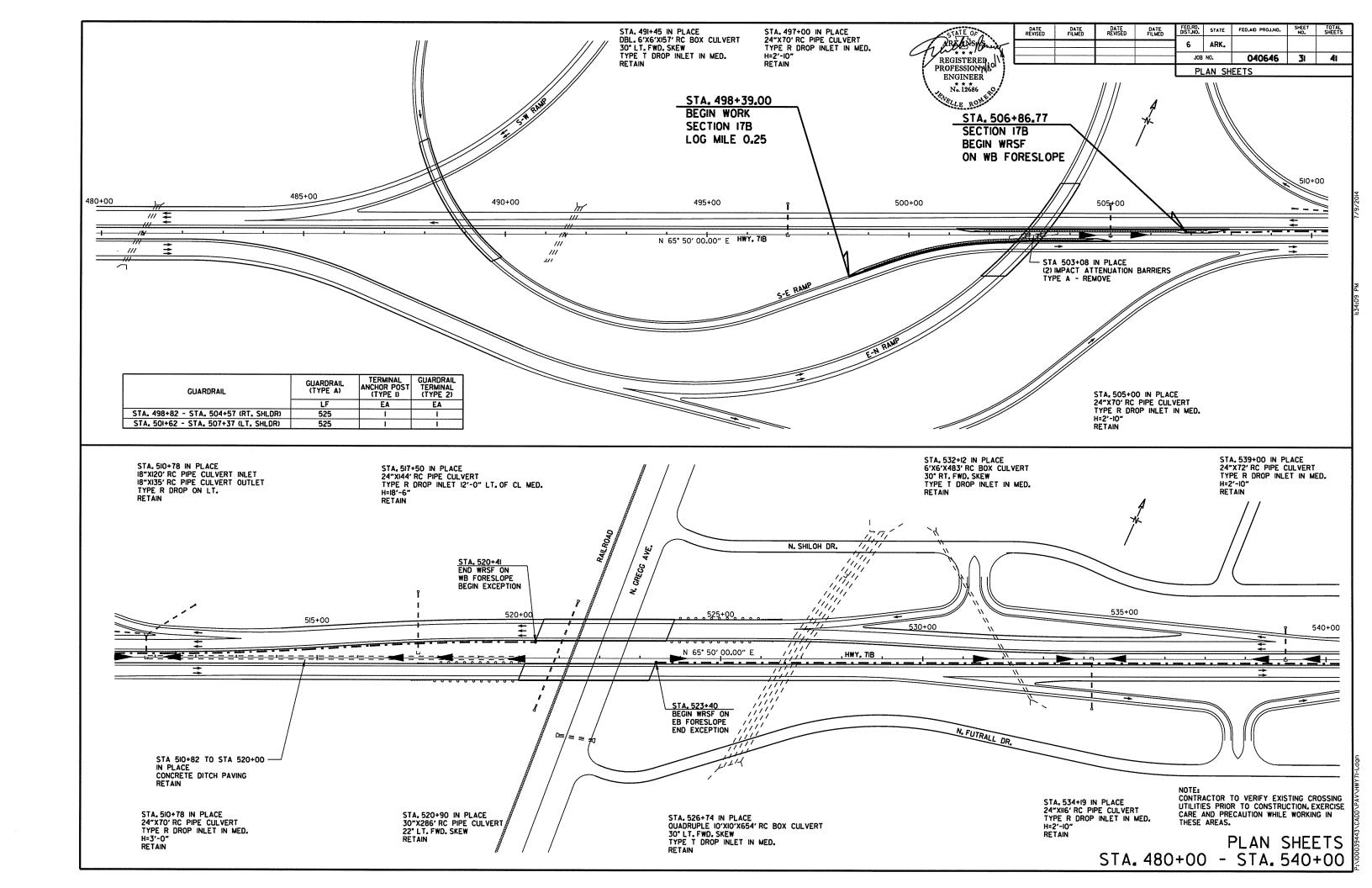
NOTE:
CONTRACTOR TO VERIFY EXISTING CROSSING
UTILITIES PRIOR TO CONSTRUCTION. EXERCISE
CARE AND PRECAUTION WHILE WORKING IN
THESE AREAS.

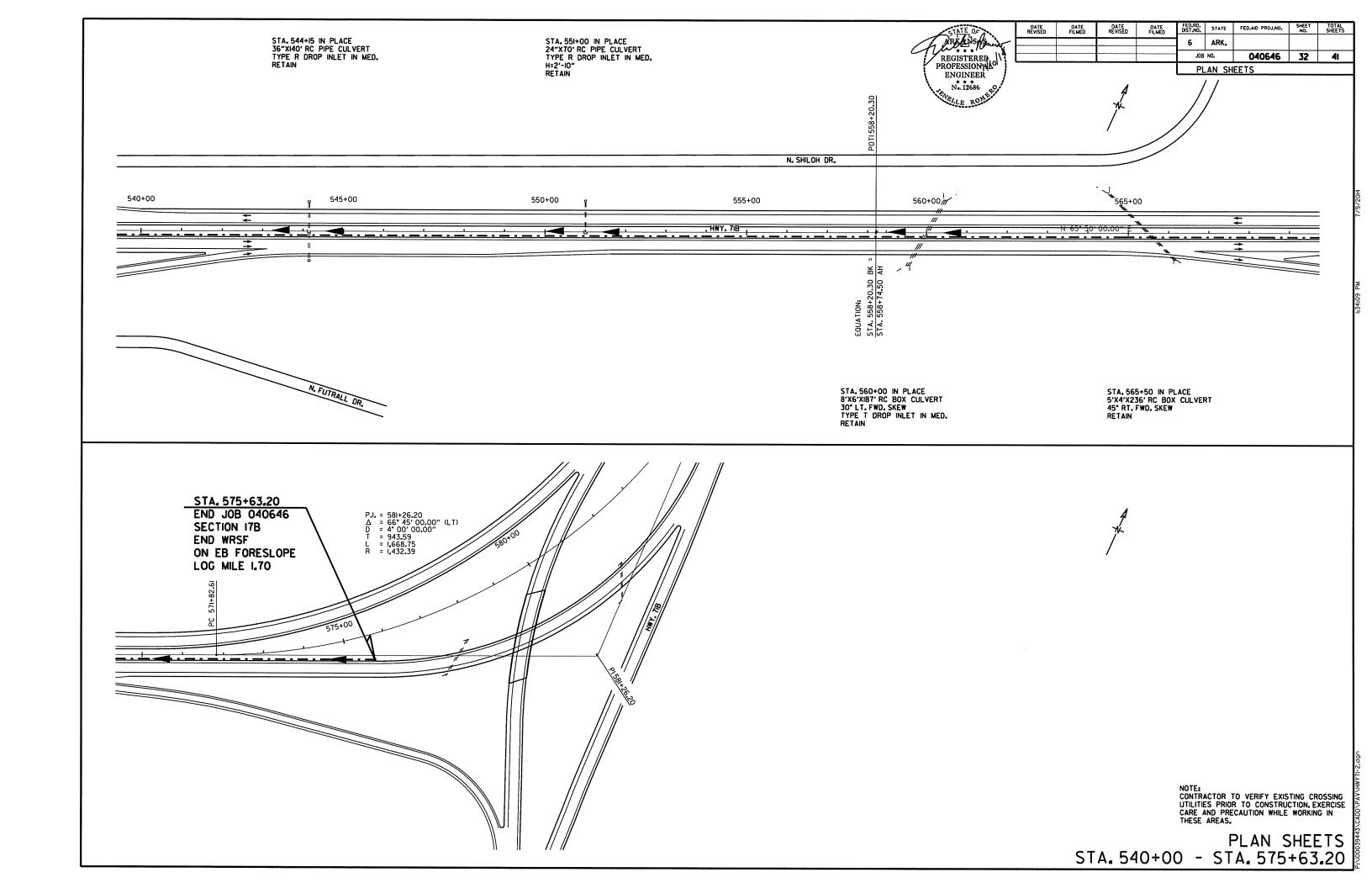
PLAN SHEETS STA. ||49+00 - STA. ||60+30.||8

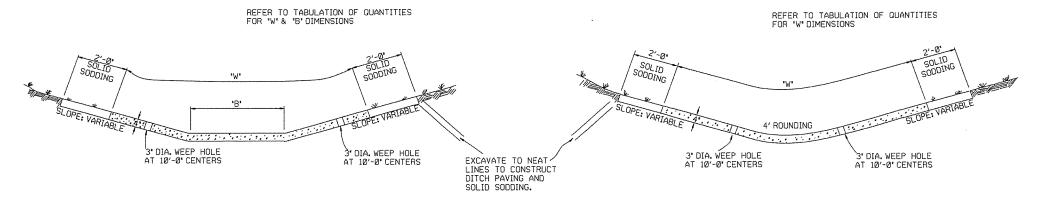




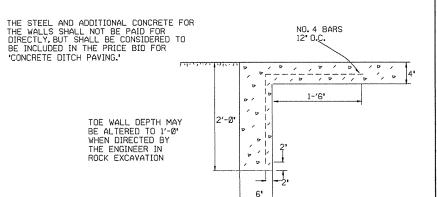
NOTE:
CONTRACTOR TO VERIFY EXISTING CROSSING
UTILITIES PRIOR TO CONSTRUCTION, EXERCISE
CARE AND PRECAUTION WHILE WORKING IN
THESE AREAS.







TYPE A TYPE B



TOE WALL DETAIL FOR CONCRETE DITCH PAVING

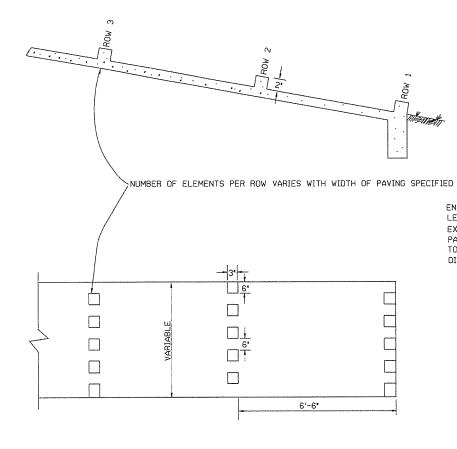
GENERAL NOTES:

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.

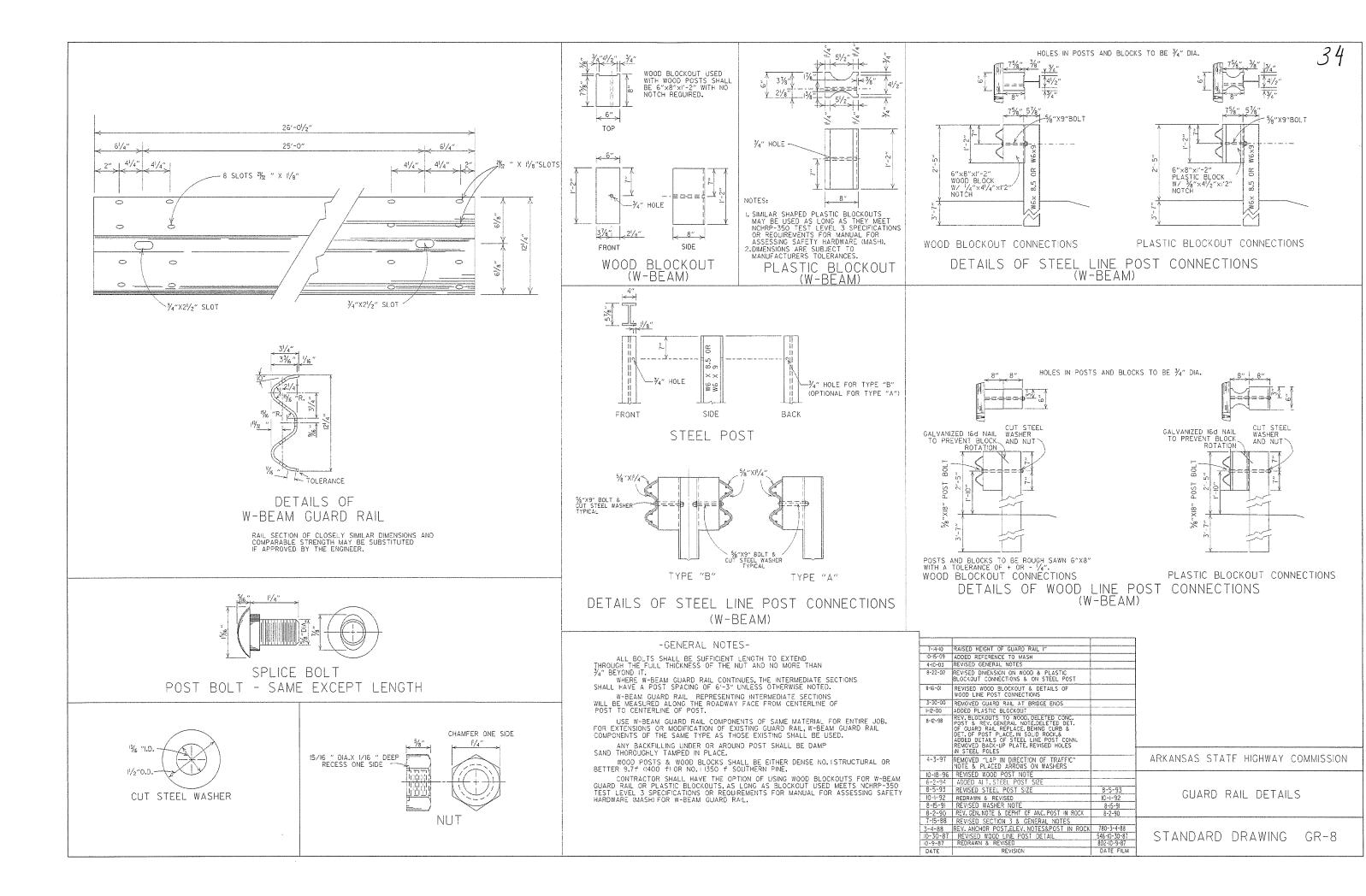
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

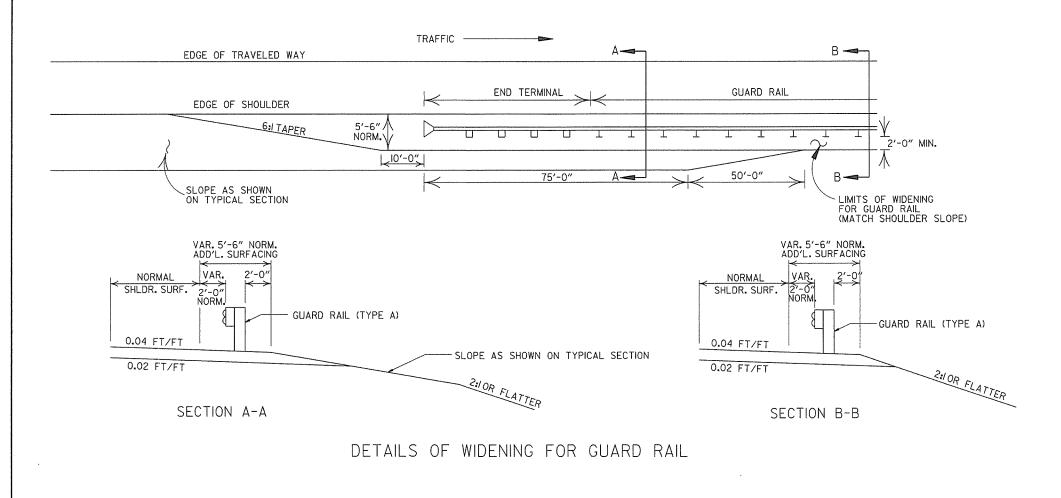


ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 7%. THE DISSIPATORS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE UNCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.

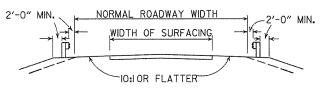
ENERGY DISSIPATORS

	ARKANSAS STATE HIGHWAY COMMISSION
11-17-10 ADDED GENERAL NOTE 6-2-94 ADDED GENERAL NOTE 6-2-94 ADDED GENERAL NOTE ABOUT SOLID SODDING 11-30-8 ELIMINATED MIN. ROWS OF ELEMENTS 111-30-89 7-15-88 REVISED DISSIPATOR NOTE 653-7-15-88 4-3-87 REVISED DISSIPATOR NOTE 671-4-3-87 671-4-3-87 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 508-11-1-84 ADDED ADDED ADDED 1-1-84 ENERGY DISSIPATOR DETAILS 508-11-1-84 ADDED ADDED	CONCRETE DITCH PAVING
11-1-84 EXCAVATION DETAILS ADDED TYPED A & B 10-2-72 REVISED AND REDRAWN 508-10-2-72 DATE PRINTED PRIN	STANDARD DRAWING CDP-1

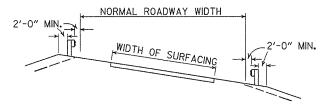




NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARD RAIL.

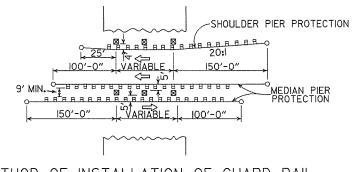


SECTION ON TANGENT



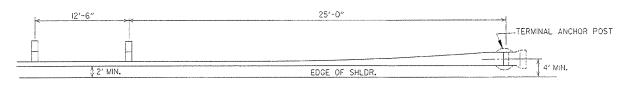
SECTION ON CURVE

DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

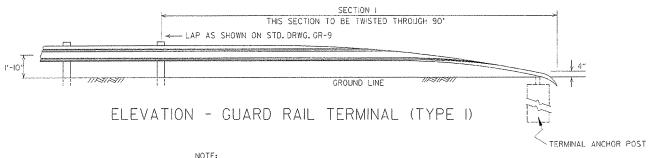


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

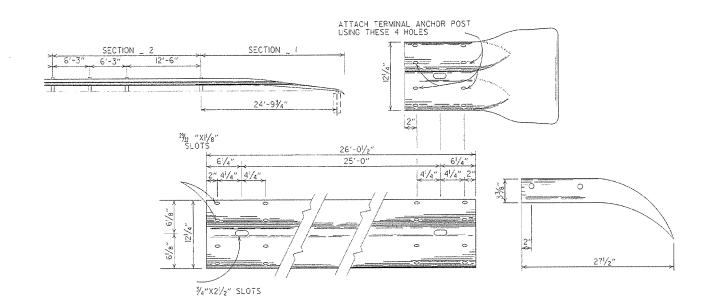
			ARKANSAS STATE HIGHWAY COMMISSION
			OLIADO DAL DETALO
			GUARD RAIL DETAILS
	MINOR REVISION		CTANDADD DDAWING OD OA
11-10-05			STANDARD DRAWING GR-9A
DATE	REVISION	DATE FILM	



PLAN - GUARD RAIL TERMINAL (TYPE I)

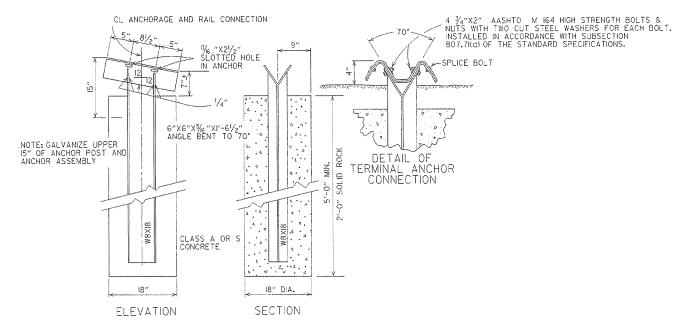


NOTE: SECTIONS IAND 2 OF GUARD RAIL TERMINAL SHALL BE PAID FOR AT THE PRICE BID PER LINEAR FOOT OF THE TYPE OF GUARD RAIL SPECIFIED.



SECTION

TERMINAL SECTION



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 WF 17 POST IF CONTRACTOR SO DESIRES.

DETAIL OF TERMINAL ANCHOR POST (TYPE I)

			ARKANSAS STATE HIGHWAY COMMISSION
			GUARD RAIL DETAILS
7-14-10	RAISED HEIGHT OF GUARD RAIL I"		
	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	STANDARD DRAWING GRT-I
10-1-92	DRAWN & ISSUED	10-1-92	STANDAND DIVAMINO ON T
DATE	REVISION	DATE FILM	

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV.	SP	AN	RISE		
DIA.	AASHTO M 206	AHTD NOMINAL	AASHTO M 206	AHTD NOMINAL	
INCHES		INC	HES		
15 18 21 24 30 36 42 48 54 60 72 84 90 96 108 120 132	18 22 26 28½ 36¼ 43¾ 51½ 58½ 65 73 88 102 115 122 138 154 168¾	18 22 26 29 36 44 51 59 65 73 88 102 115 122 138 154	11 13½ 15½ 18 22½ 26% 33% 36 40 45 54 62 77½ 87½ 87½ 106½	11 14 16 18 23 27 31 36 40 45 54 62 72 77 87	

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

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

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES

CONSTRUCTION SEQUENCE

I. 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)(I).

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

- LEGEND -

D₁ = NORMAL INSIDE DIAMETER OF PIPE D₀ = OUTSIDE DIAMETER OF PIPE H = FILL COVER HEIGHT OVER PIPE (FEET) MIN. = MINIMUM = 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.

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

	CLASS OF PIPE			
	CLASS III		CLASS IV	CLASS V
INSTALLATION TYPE	TYPE 1 OR 2	TYPE 3	ALL	ALL
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.

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

	CLASS OF PIPE		
INSTALLATION TYPE	CLASS III	CLASS IV	
	FEET		
TYPE 2 OR TYPE 3	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 CIRCULAR R.C. PIPE CULVERTS

	С	LASS OF PIP	E
INSTALLATION	CLASS III	CLASS IV	CLASS V
1175		FEET	
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.

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

	CLASS OF PIPE			
INSTALLATION	CLASS III	CLASS IV		
1175	FEET			
TYPE 2	13	21		
TYPE 3	10	16		

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

TRENCH SECTION EMBANKMENT SECTION EXCAVATION LINE AS REQUIRED Do(MIN) Do(MIN) 12" MIN. 12* MIN. HAUNCH - LOWER SIDE LOWER SIDE STRUCTURAL BEDDING Z BOTTOM OF EXCAVATION & SELECTED PIPE BEDDING PAY LIMIT D₀/2 STRUCTURAL - MIDDLE STRUCTURAL BEDDING LOOSELY PLACED UNCOMPACTED 3. WINIMIM BEDDING (6' MIN. IN ROCK) SELECTED PIPE BEDDING (BACKFILL OF UNDERCUT IF DIRECTED BY ENGINEER)

EMBANKMENT AND TRENCH INSTALLATIONS

- I. 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 MAXMUM 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

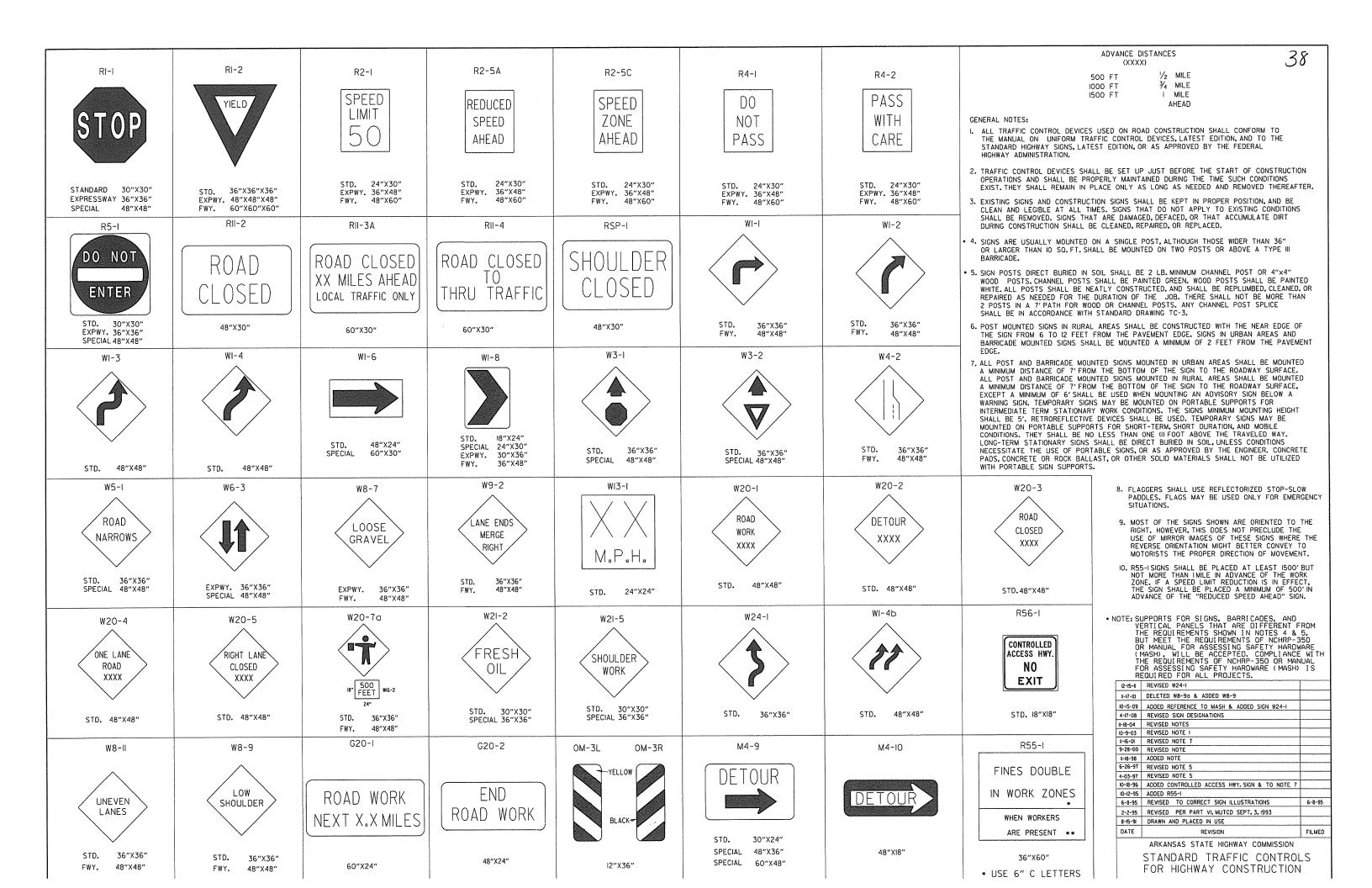
- I. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION 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 MITO, 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.
- 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 SOUARE. 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 OUDANTITY 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."
- IO. 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."

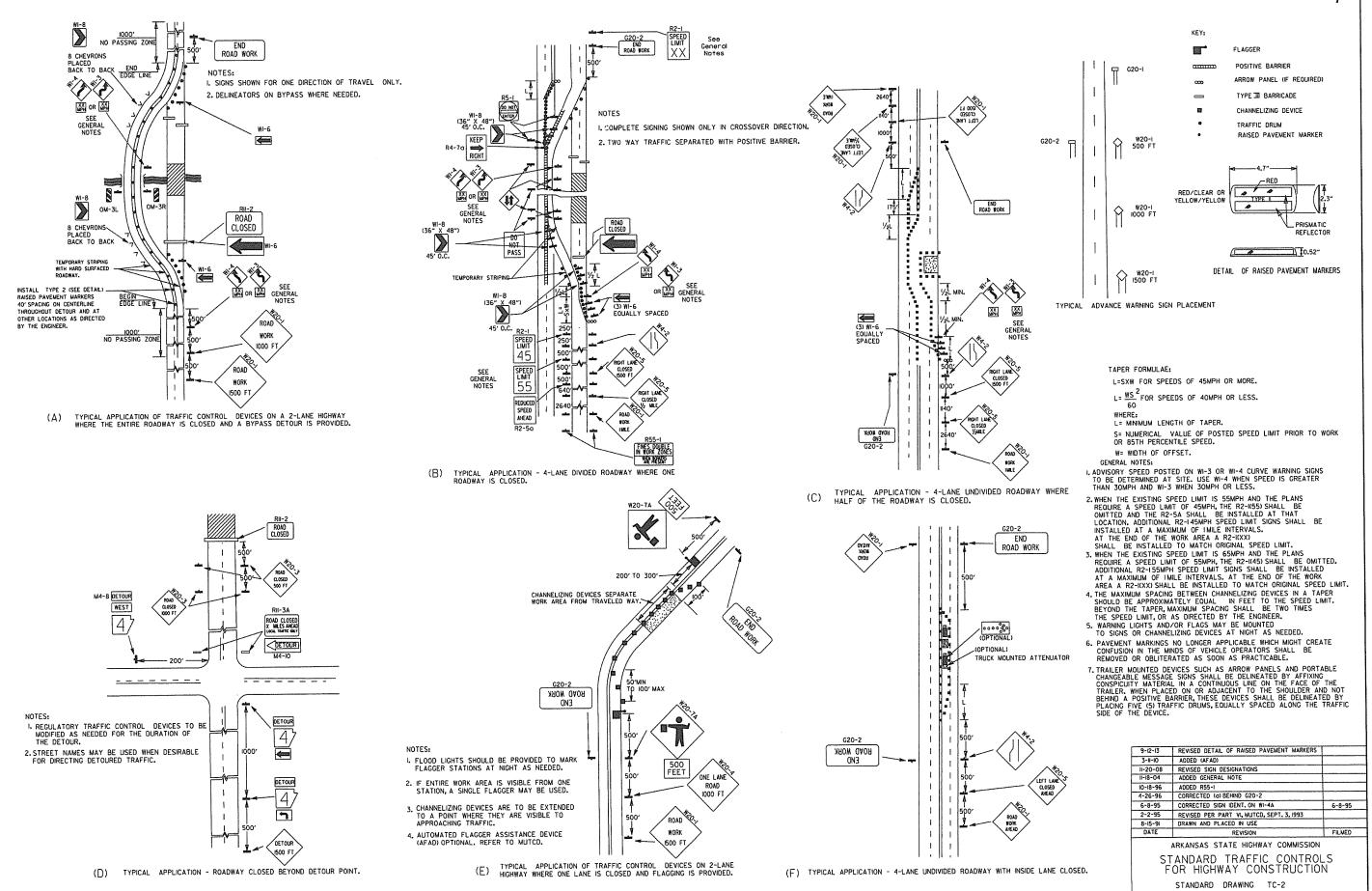
l			
		-	
2-27-14	REVISED GENERAL NOTE I.		
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS		
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE		
	REVISED INSTALLATIONS		
11-06-97	ISSUED		
DATE	REVISION	DATE	FILM

ARKANSAS STATE HIGHWAY COMMISSION CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

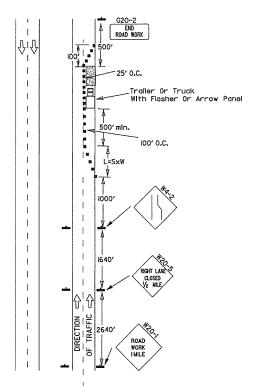
STANDARD DRAWING PCC-1



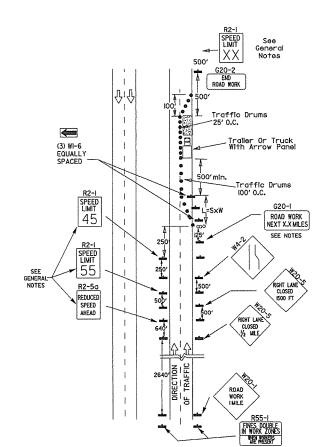




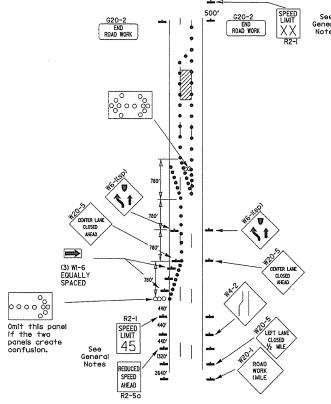
Channelizing devices



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



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



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

KEY:

OCO Arrow Panel (If Required)

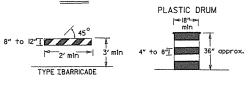
Channelizing Device

O Traffic drum

GENERAL NOTES:

- 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 R2-1(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 imile intervals. At the end of the work area a R2-I(XX) shall be installed to match original speed limit.
- 3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of imile intervals. At the end of the work area a R2-1(XX) shall be installed to match
- 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 shallbe two times the speed limit or as directed by the Engineer.
- 5- Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
- 6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
- 7. The G20-isign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-isign shall be erected 125' in advance of the job limit. Additional W20-1 (IMILE) signs are not required in advance of lane closures that begin inside the project limits.
- 8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- 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.

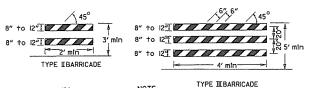
When cones are used on freeways and multi-lane highways, they shall be 28" min. During hours of darkness, 28" cones shall be used on all roadways, and shall be reflectorized in accordance with the M.U.T.C.D. *18" min CONES



NOTE:

VERTICAL PANEL

VP-IR



across entire roadway.

TRAFFIC CONTROL DEVICES FOR

VERTICAL PAVEMENT DIFFERENTIALS

LOCATIONS

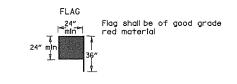
W8-II 1" to 3" Centerline, Igne lines I" to 3" Edge of shoulder W8-9 Greater than 3" Standard lane closure regulred Lane lines

TRAFFIC CONTROL

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

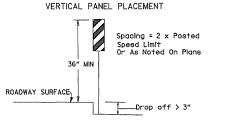
Greater than 3" Edge of shoulder *Vertical panels, drums or concrete barrier

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

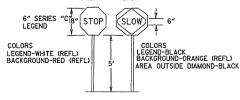




VERTICAL DIFFERENTIAL



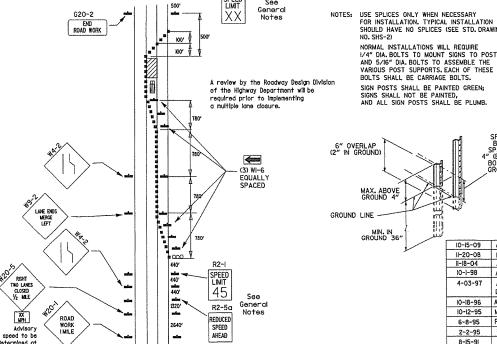
For all road closures, the Type III barricades shall be of sufficient length to extend



ADDITIONAL POST

DETAIL OF SPLICES ESIGN BOLT

STOP SLOW PADDLE



& SPLICE BOLTS SHOULD HAVE NO SPLICES (SEE STD. DRAWING NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA, BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA, BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS, EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS. SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB. SPLICE

> IO-IS-09 ADDED REFERENCE TO MASH II-20-08 REVISED SIGN DESIGNATIONS
> II-18-04 ADDED NOTE 10-1-98 4-03-97 ADDED (SP) TO W6-1& REVISED TRAFFIC CONTROL DEVICES NOTE 10-18-96 ADDED R55-1 10-12-95 MOVED UPPER SPLIC 6-8-95 REVISED SPLICE DETAIL, TEXT 6-8-95 2-2-95 REVISED PER PART VI, MUTCD, SEPT. 3, 1993 8-15-91 DRAWN AND PLACED IN USE DATE FILMED

> > STANDARD DRAWING TC-3

ARKANSAS STATE HIGHWAY COMMISSION

FOR HIGHWAY CONSTRUCTION

STANDARD TRAFFIC CONTROLS

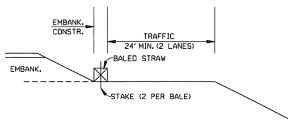
GROUND LINE-

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

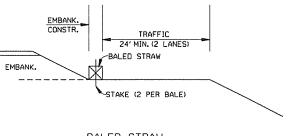




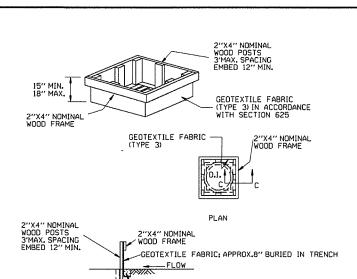
- 1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
- 2. NO GAPS SHALL BE LEFT BETWEEN BALES.
- 3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED 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)



TRENCH APPROX.4" DEEP X 4" WIDE; FILL TRENCH TO ANCHOR BOTTOM OF CLOTH; COMPACT THOROUGHLY.

SECTION C-C

DROP INLET SILT FENCE (E-7)

WATTLE DITCH CHECK (E-1)

2' DOWNSLOPE STAKES

WATTLE DITCH CHECK

2' MAX.

GENERAL NOTES

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

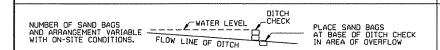
NATURAL GROUND

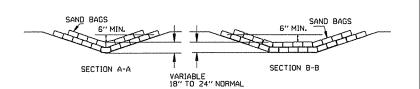
WATTLE DITCH CHECK

SECTION A-A ROADSIDE DITCHES (V-TYPE)

2' MAX.---

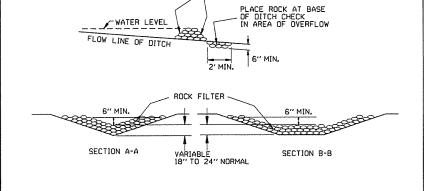
2' DOWNSLOPE STAKES





SAND BAG DITCH CHECK (E-5)

APPROX. 2:1 SLOPE



ROCK DITCH CHECK (E-6)

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

LIMITS OF PAYMENT

ELEVATION

R/W FENCE-

GEOTEXTILE FABRIC (TYPE 3) IN ACCORDANCE WITH SECTION 625

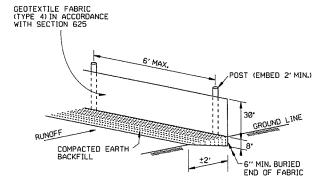
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD, PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

GEOTEXTILE FABRIC
(TIE TO FENCE)

---COMPACTED EARTH BACKFILL

R/W FENCE

_6" MIN. BURIED END OF FABRIC



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.

12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	T	
			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-II	7-20-95	TEMPORARY FROSION
7-15-94	REV. E-4 & E-II MIN. 13" BURIED END OF FABRIC		
6-2-94	REVISED E-1,4.7 & II; DELETED E-2 & 3	6-2-94	L CONTROL DEVICES L
4-1-93	REDRAWN		00////02 02/1020
10-1-92	REDRAWN		
8-2-76	ISSUED R.D.M.	298-7-28-76	STANDARD DRAWING TEC-1
DATE	REVISION	FILMED	