

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.	012170	I	48	
PRESCOTT-GUM SPRINGS (SEL. SECS.) (CABLE MEDIAN BARRIER) (S)								

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

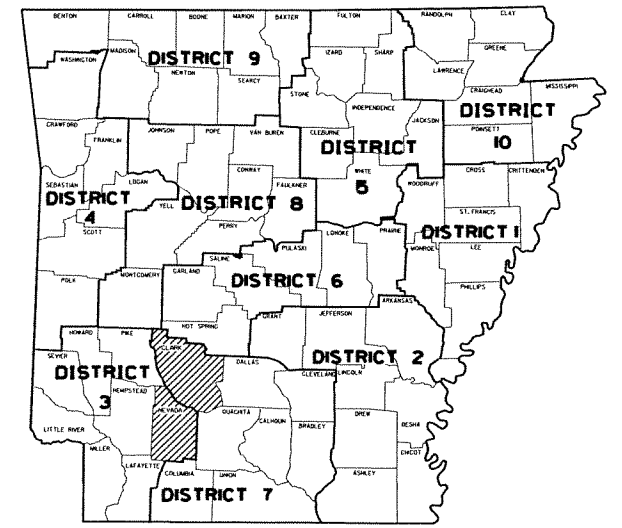
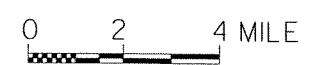
PRESCOTT-GUM SPRINGS (SEL. SECS.) ((CABLE MEDIAN BARRIER) (S))

CLARK & NEVADA COUNTIES

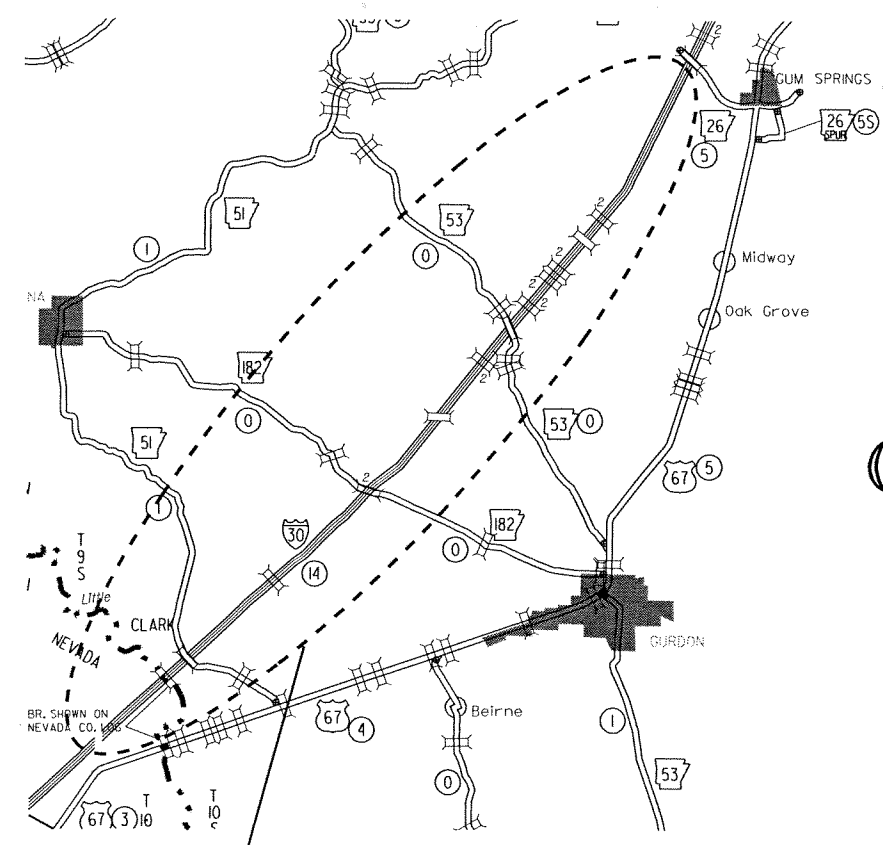
ROUTE 30 SECTIONS 13 & 14

JOB 012170

FED. AID PROJ. 9050



ARK. HWY. DIST. NO. 3 & 7



PROJECT LOCATION VICINITY MAP

EQUATIONS TO JOB 012170

STA. 2478+57.60 (BK.)	- STA. 2478+18.60 (AHD.)	= +39.0'
STA. 2921+10.20 (BK.)	- STA. 2920+74.10 (AHD.)	= +36.1'
STA. 3245+86.60 (BK.)	- STA. 3246+00.00 (AHD.)	= -13.4'
STA. 3291+39.80 (BK.)	- STA. 3293+06.30 (AHD.)	= -166.5'
EQUATION TOTAL = -104.8		

STA. 2844+80.00
 BEGIN SECTION 2
 LOG MILE 58.10

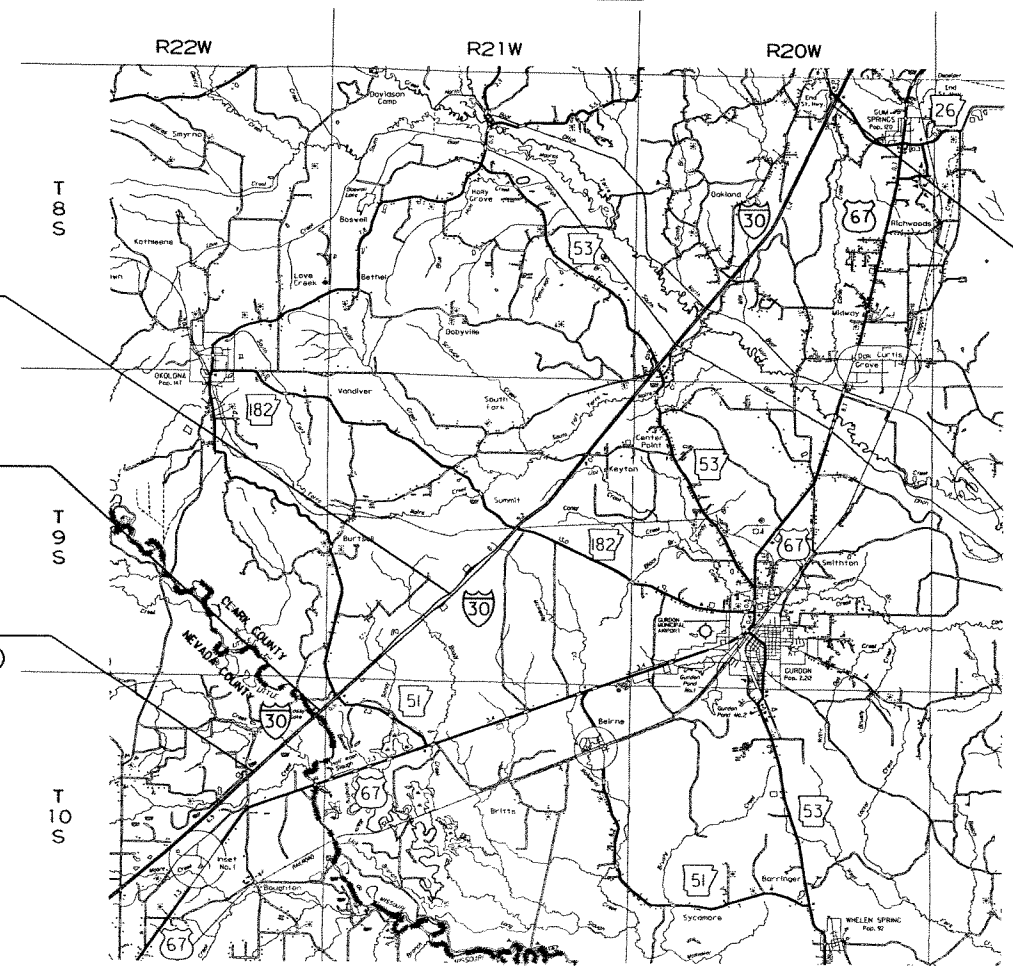
STA. 2685+20.80
 END SECTION 1
 LOG MILE 55.08

STA. 2465+03.20
 BEGIN JOB 012170
 BEGIN SECTION 1
 LOG MILE 50.90

EXCEPTIONS TO JOB 012170

STA. 2537+20	- STA. 2539+30	= 210'
STA. 2552+50	- STA. 2557+90	= 540'
STA. 2575+40	- STA. 2585+00	= 960'
STA. 2685+20.80	- STA. 2844+00	= 15879.20'
STA. 2867+80	- STA. 2871+00	= 320'
STA. 3049+00	- STA. 3052+00	= 300'
STA. 3122+50	- STA. 3126+50	= 400'
STA. 3158+30	- STA. 3161+70	= 340'
STA. 3173+50	- STA. 3176+70	= 320'
STA. 3242+87	- STA. 3244+46	= 159'
TOTAL EXCEPTIONS = 19428.20'		

BEGINNING OF PROJECT LAT. = N 33°52' 32.2" LONG. = W 93°20' 04.4"	MID-POINT OF PROJECT LAT. = N 33°57' 41.2" LONG. = W 93°13' 07.6"	END OF PROJECT LAT. = N 34°03' 48.2" LONG. = W 93°07' 34.7"
---	---	---



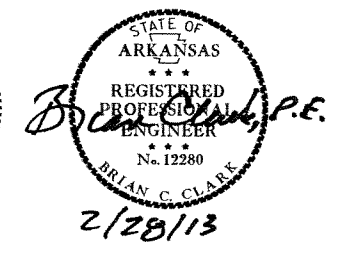
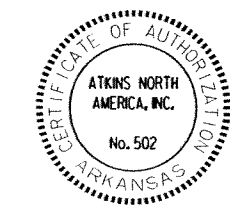
DESIGN TRAFFIC DATA

DESIGN YEAR	-----	2033
2013 ADT	-----	26,000
2033 ADT	-----	34,000
2033 DHV	-----	3,740
TRUCKS	-----	57%
DESIGN SPEED	-----	70 MPH

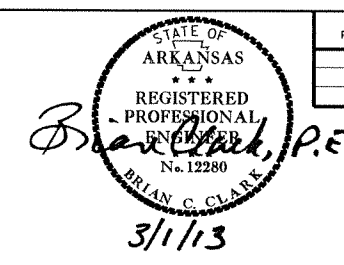
STA. 3404+87.20
 END SECTION 2
 END JOB 012170
 LOG MILE 68.68

GROSS LENGTH OF PROJECT	93879.20	FEET	OR	17.780	MILES
NET " " ROADWAY	74451.00	"	"	14.101	"
NET " " BRIDGES	0.00	"	"	0.000	"
NET " " PROJECT	74451.00	"	"	14.101	"

P.E. 012170
 NON-PART.



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				6	ARK.				
JOB NO.							012170	2	48

INDEX, GOV. SPECS. AND GENERAL NOTES

SHEET NO.	INDEX OF SHEETS	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 - 19	TEMPORARY EROSION CONTROL DETAILS		
20 - 22	MAINTENANCE OF TRAFFIC		
23 - 24	QUANTITY SHEETS		
25	SUMMARY OF QUANTITIES AND REVISIONS		
26 - 39	PLAN SHEETS		
40	CONCRETE DITCH PAVING	CDP-1	11-17-10
41	GUARD RAIL DETAILS	GR-8	7-14-10
42	GUARD RAIL DETAILS	GR-9A	4-17-08
43	GUARD RAIL DETAILS	GRT-1	7-14-10
44	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	PCC-1	12-15-11
45	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	12-15-11
46	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	3-11-10
47	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	10-15-09
48	TEMPORARY EROSION CONTROL DEVICES	TEC-1	12-15-11

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2003, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

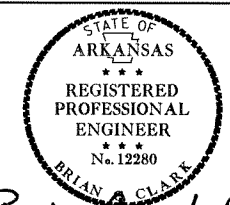
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT-EQUAL EMPLOYMENT OPPORTUNITY-NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT-SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
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
100-2	MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
102-1	BIDDING REQUIREMENTS AND CONDITIONS
105-1	CONSTRUCTION CONTROL MARKINGS
105-2	EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES
105-3	CONTROL OF WORK
107-1	WORKER VISIBILITY
108-1	LIQUIDATED DAMAGES
110-1	PROTECTION OF WATER QUALITY AND WETLANDS
303-1	AGGREGATE BASE COURSE
404-1	PRODUCTION VERIFICATION OF ASPHALT CONCRETE HOT MIX
404-2	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
409-1	MINERAL AGGREGATES
410-3	DENSITY TESTING FOR ACHM LEVELING COURSES AND BOND BREAKERS
600-1	WATER FOR VEGETATION
603-1	MAINTENANCE OF TRAFFIC
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-2	INSPECTION OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
606-1	PIPE CULVERTS FOR SIDE DRAINS
JOB 012170	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 012170	CONCRETE DITCH PAVING
JOB 012170	DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 012170	INTERNET BIDDING
JOB 012170	MAINTENANCE OF TRAFFIC
JOB 012170	PLASTIC PIPE
JOB 012170	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIERS
JOB 012170	SEQUENCE OF CONSTRUCTION
JOB 012170	SITE USE (A+C METHOD)
JOB 012170	STORM WATER POLLUTION PREVENTION PLAN
JOB 012170	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 012170	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 012170	UTILITY ADJUSTMENTS
JOB 012170	WARM MIX ASPHALT
JOB 012170	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB 012170	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB 012170	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.
- ANY REQUIRED EROSION CONTROL MEASURES FROM WASTING MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE.

INDEX OF SHEETS, GOVERNING SPECIFICATIONS AND GENERAL NOTES

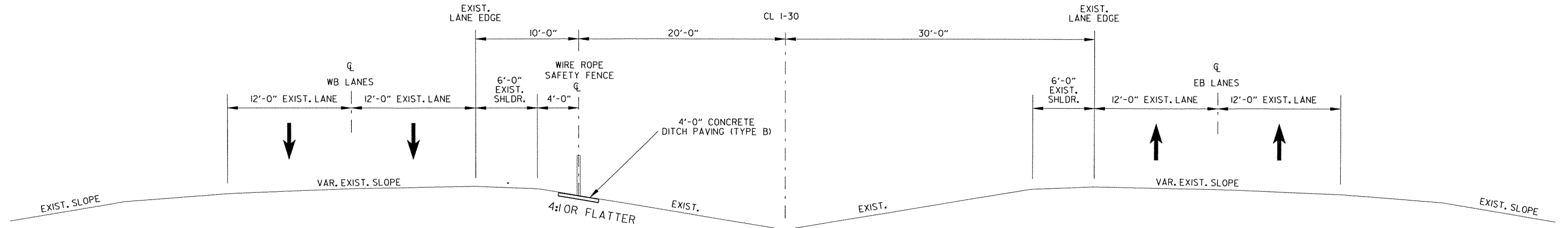
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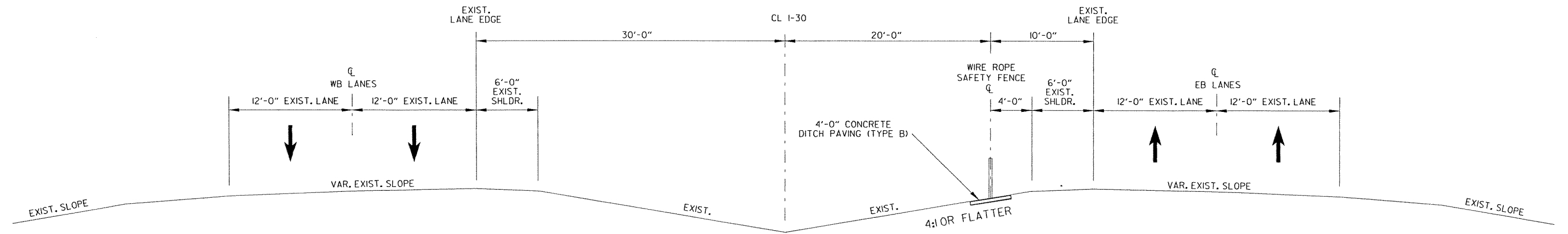
Brian A. Clark, P.E.
2/22/13

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. 012170							3	48

TYPICAL SECTIONS OF IMPROVEMENT



TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON WESTBOUND LANES FORESLOPE



TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON EASTBOUND LANES FORESLOPE

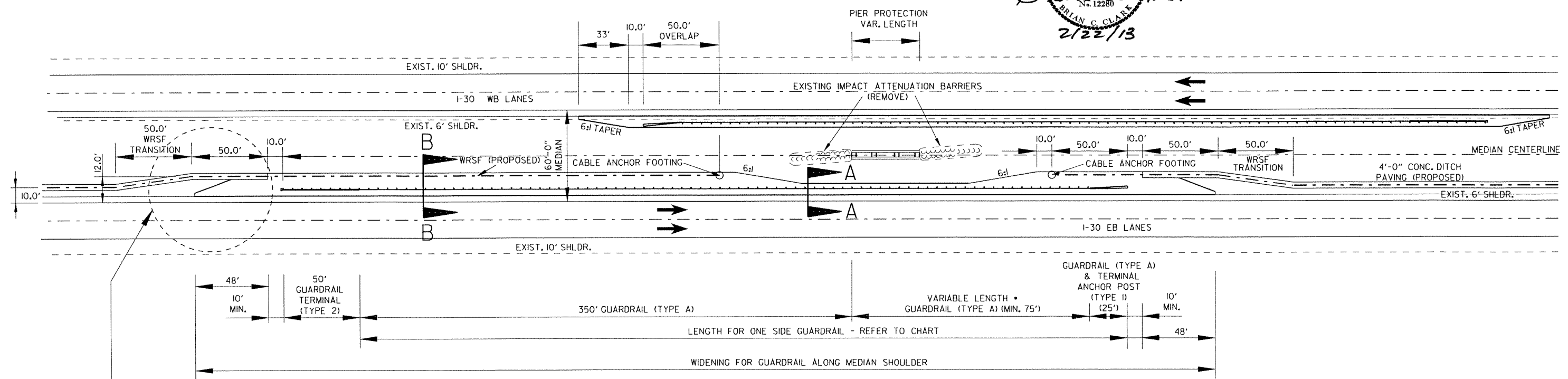
TYPICAL SECTIONS OF IMPROVEMENT

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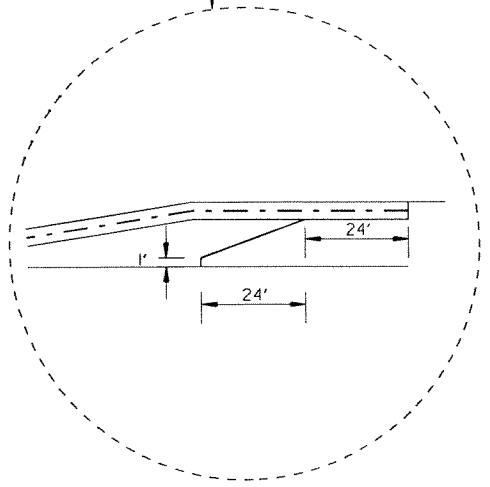
STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 B. Clark, P.E.
 No. 12280
 2/22/13

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		4	48
						JOB NO.	012170	
SPECIAL DETAILS								

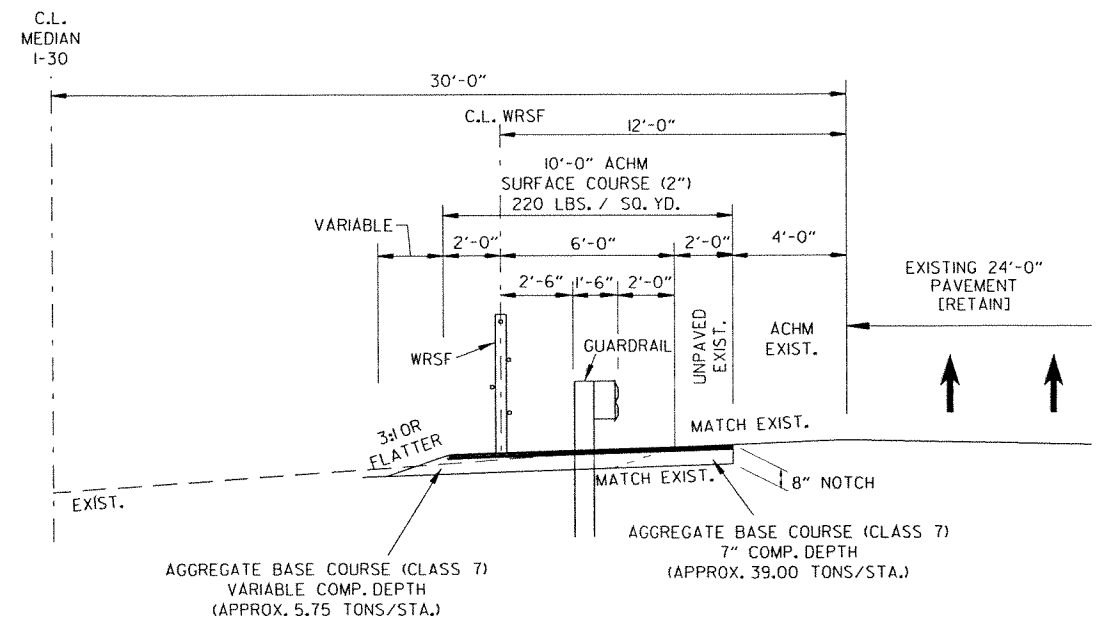


DETAIL AT OVERPASSES

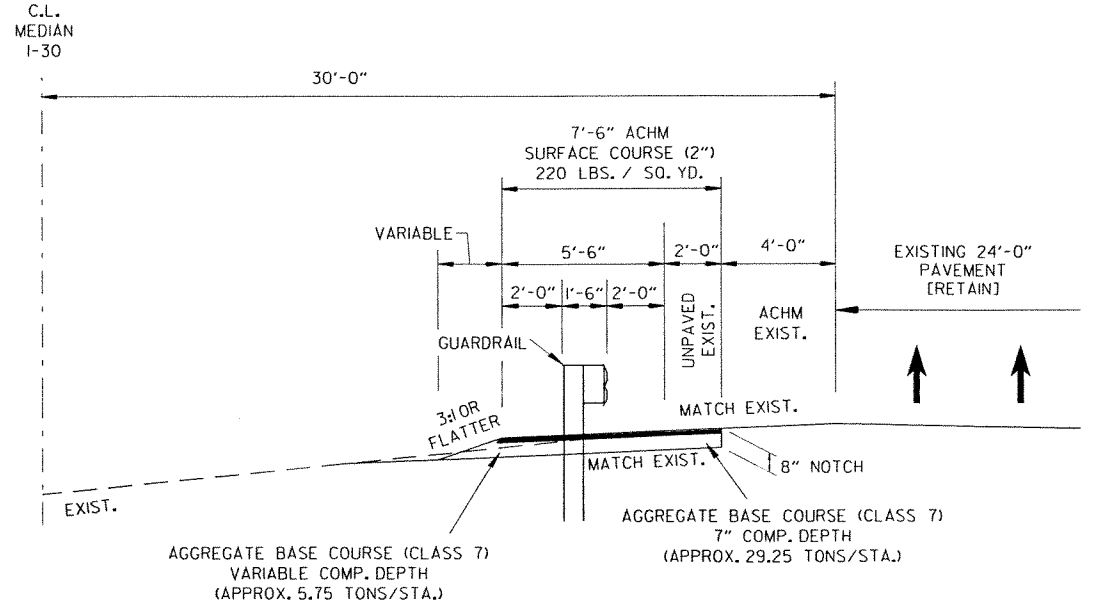
NOTE: REFER TO PLAN SHEETS FOR PLACEMENT OF WIRE ROPE SAFETY FENCE ON EASTBOUND OR WESTBOUND FORESLOPES.



DIMENSIONS ARE TYPICAL BOTH DIRECTIONS



SECTION B-B



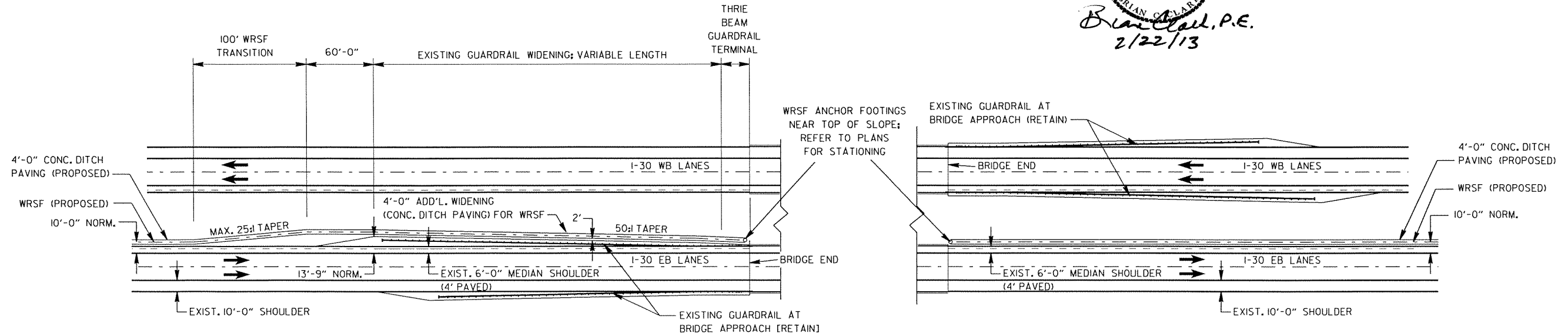
SECTION A-A

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STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 12280
 Brian Clark, P.E.
 2/22/13

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JOB NO. 012170							5	48

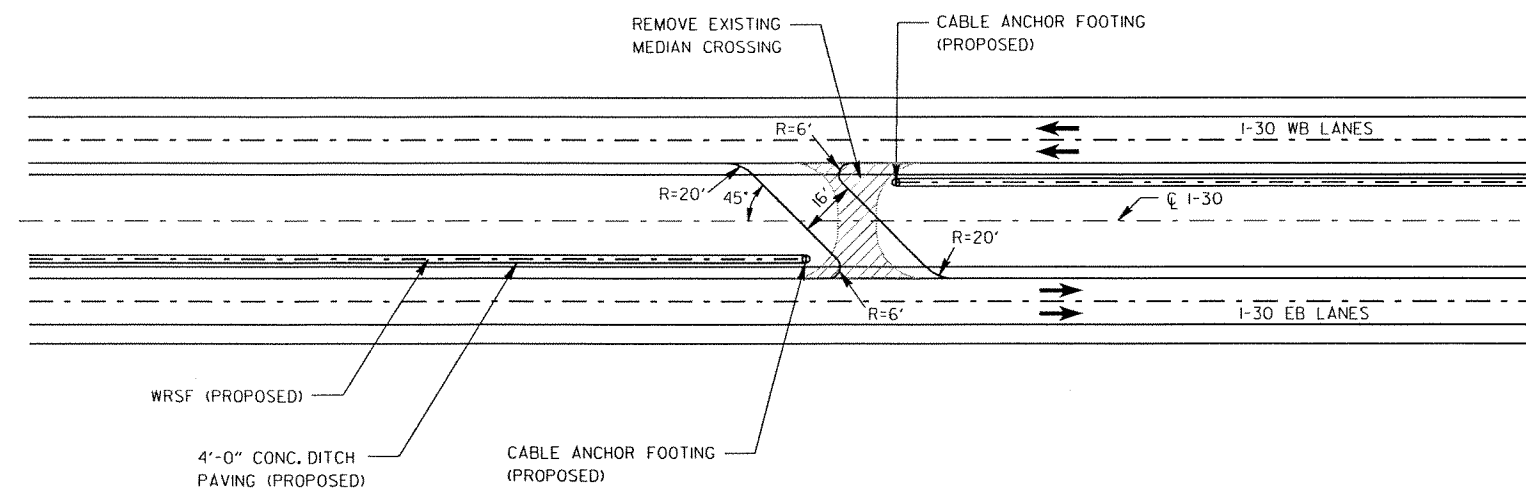
SPECIAL DETAILS



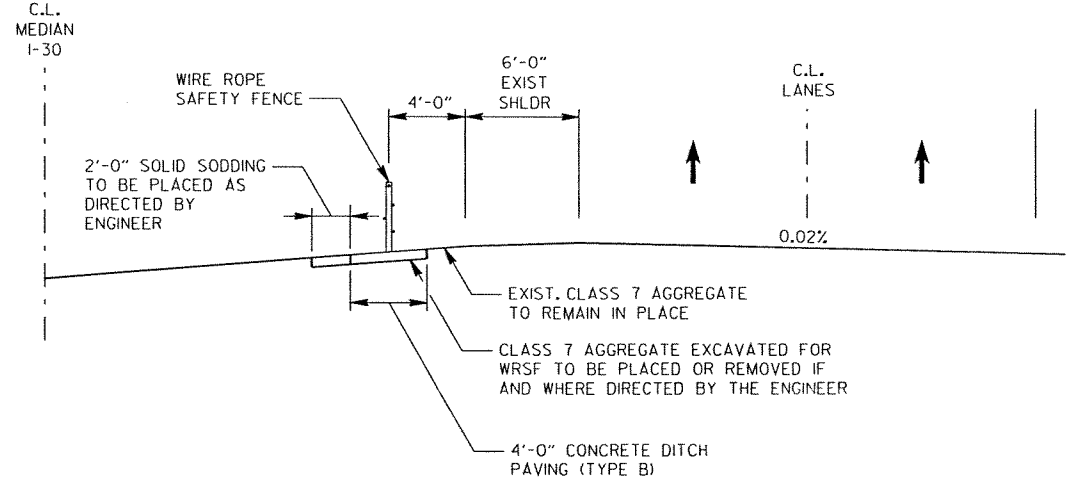
WRSF AND EXIST. GUARDRAIL ON SAME SIDE OF MEDIAN

WRSF AND EXIST. GUARDRAIL ON OPPOSITE SIDES OF MEDIAN

DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS



DETAIL AT MEDIAN CROSSING

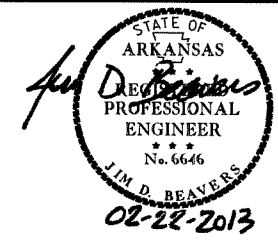


SOLID SODDING DETAIL

NOTE:
 MEDIAN CROSSING TO BE CONSTRUCTED OF AGGREGATE
 BASE COURSE (CLASS 7) - 7" COMPACTED DEPTH &
 ACHM SURFACE COURSE (2") - 220 LBS. PER SQ. YD.

SPECIAL DETAILS

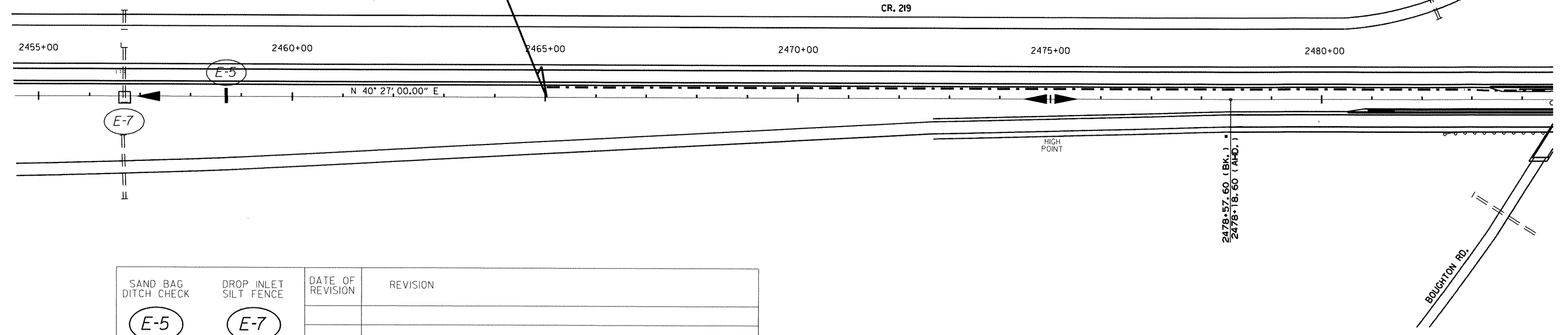
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				JOB NO.	012170		6	48

TEMPORARY EROSION CONTROL DETAILS

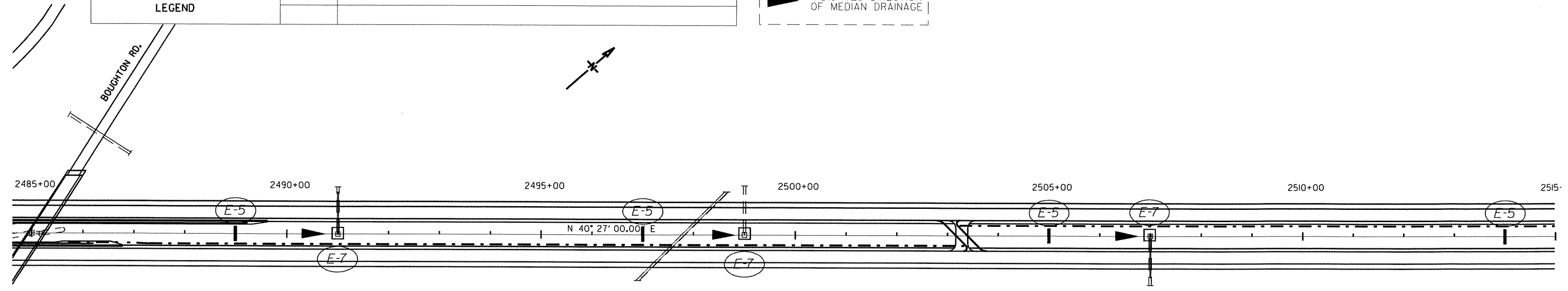
STA. 2465+03.20
 BEGIN JOB 012170
 BEGIN SECTION I
 BEGIN WRSF
 ON WB FORESLOPE
 LOG MILE 50.90



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

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

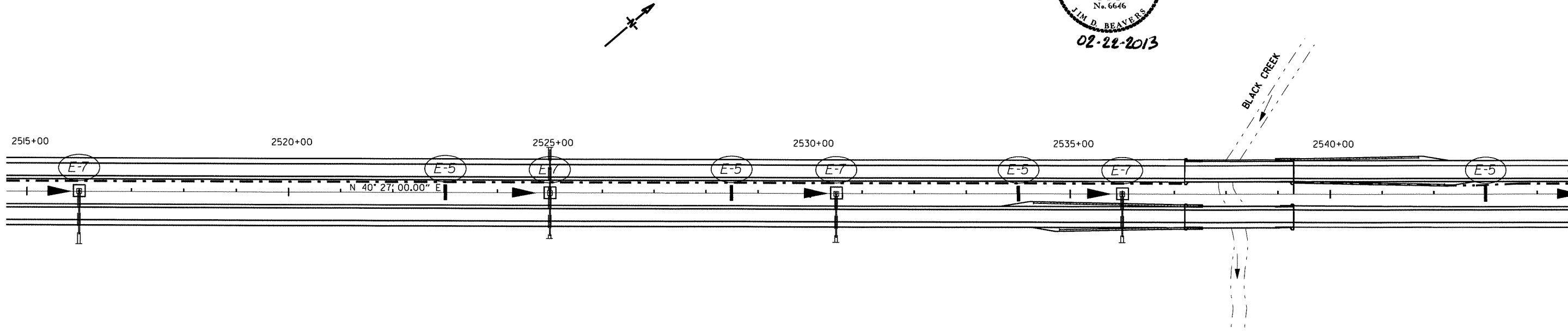


TEMPORARY EROSION CONTROL DETAILS
 STA. 2455+00 - STA. 2515+00

STATE OF ARKANSAS
Jim D. Beavers
 REGISTERED PROFESSIONAL ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-22-2013

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						JOB NO.	012170	7 48

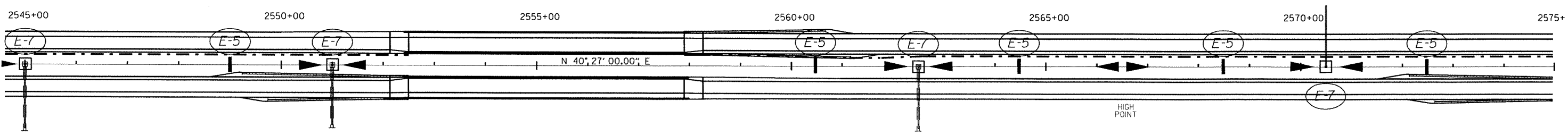
TEMPORARY EROSION CONTROL DETAILS



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

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

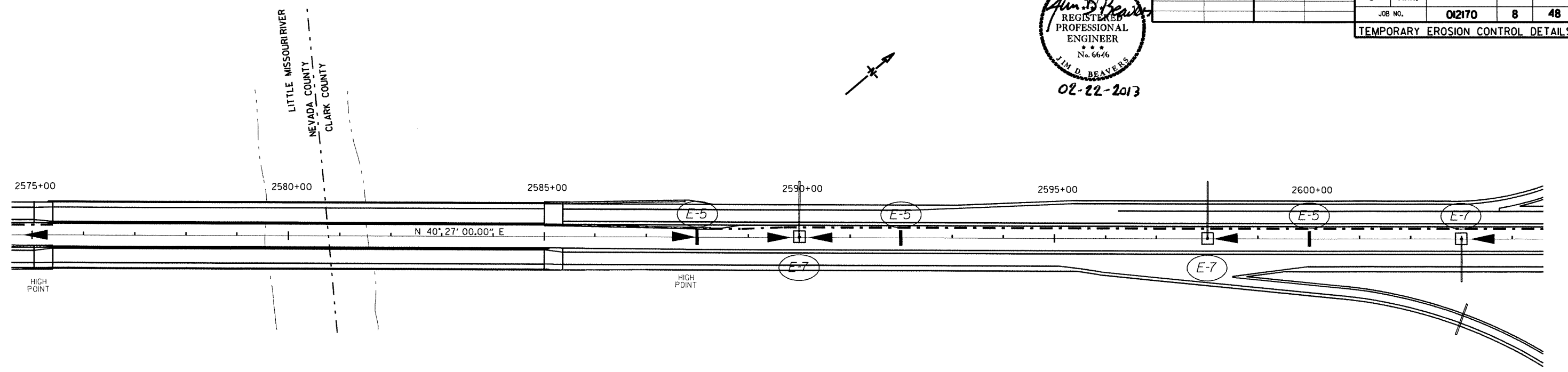


TEMPORARY EROSION CONTROL DETAILS
 STA. 2515+00 - STA. 2575+00



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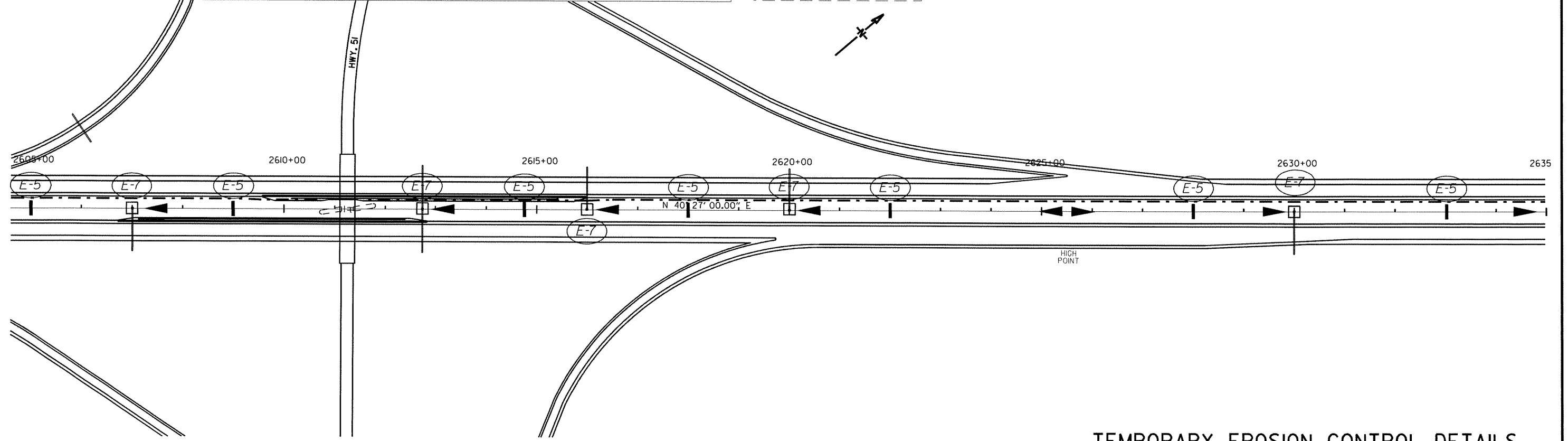
TEMPORARY EROSION CONTROL DETAILS



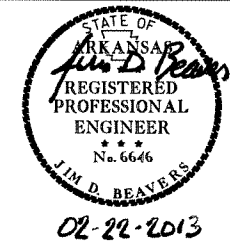
SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

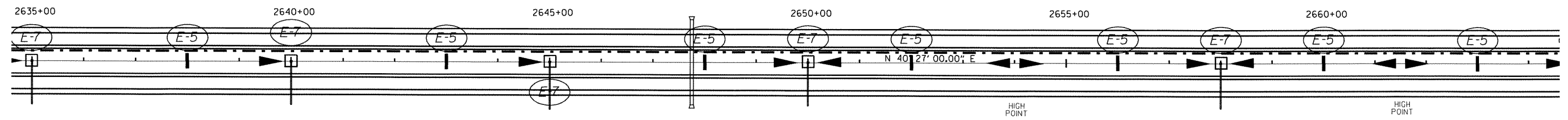


TEMPORARY EROSION CONTROL DETAILS
STA. 2575+00 - STA. 2635+00



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TEMPORARY EROSION CONTROL DETAILS

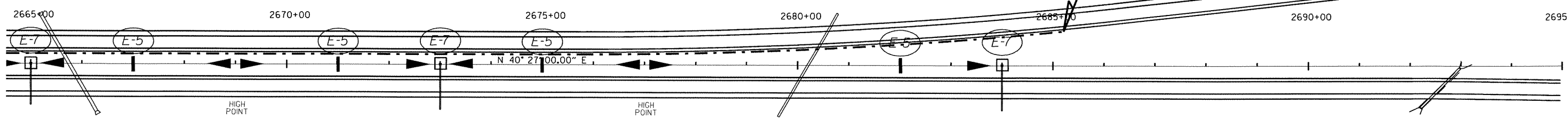


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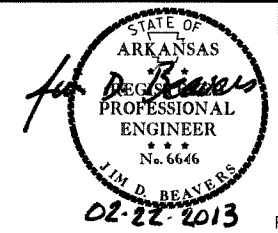
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INDICATES DIRECTION OF MEDIAN DRAINAGE

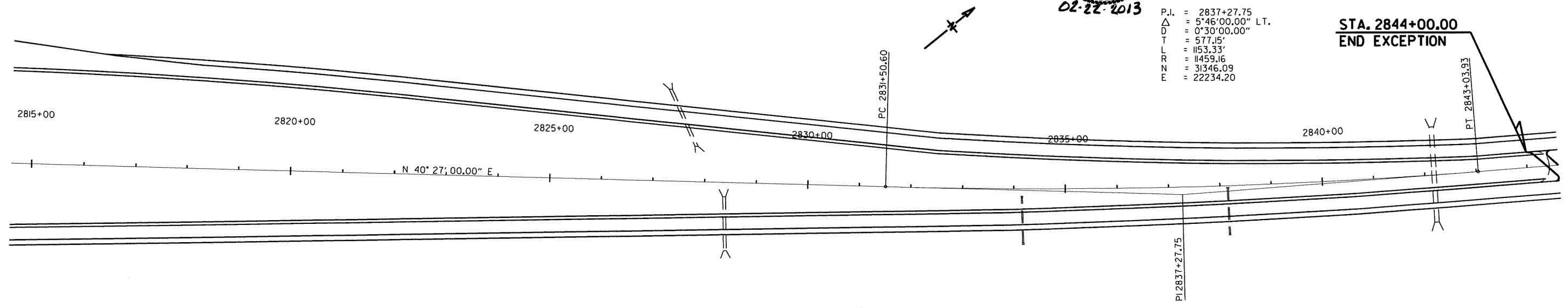
STA. 2685+20.80
 END SECTION I
 END WRSF
 ON WB FORESLOPE
 BEGIN EXCEPTION
 LOG MILE 55.08



TEMPORARY EROSION CONTROL DETAILS
 STA. 2635+00 - STA. 2695+00



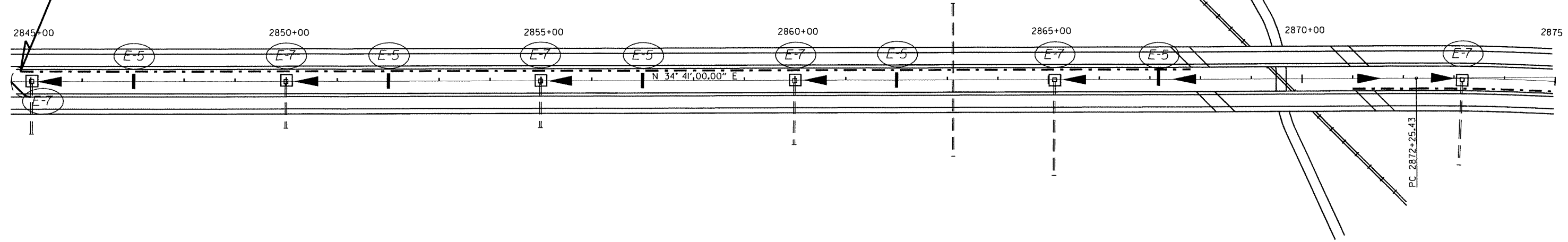
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TEMPORARY EROSION CONTROL DETAILS								



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

INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 2844+80.00
 BEGIN SECTION 2
 BEGIN WRSF
 ON WB FORESLOPE
 LOG MILE 58.10

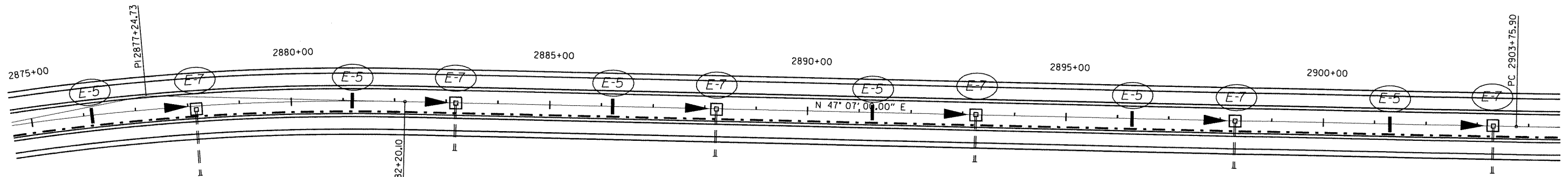


TEMPORARY EROSION CONTROL DETAILS
 STA. 2815+00 - STA. 2875+00

STATE OF ARKANSAS
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 JIM D. BEAVERS
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TEMPORARY EROSION CONTROL DETAILS



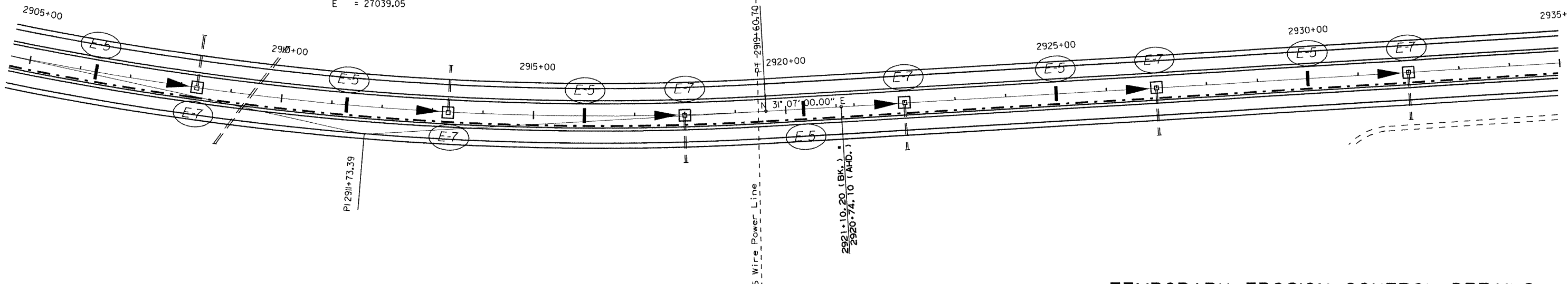
P.I. = 2877+24.73
 Δ = 12°26'00.04\" RT.
 D = 1°15'00.00\"
 T = 499.29'
 L = 994.67'
 R = 4583.66'
 N = 34633.64'
 E = 24509.19'

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

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

P.I. = 2911+73.39
 Δ = 15°50'52.78\" LT.
 D = 1°00'00.00\"
 T = 797.49'
 L = 1584.80'
 R = 5729.58'
 N = 36983.15'
 E = 27039.05'

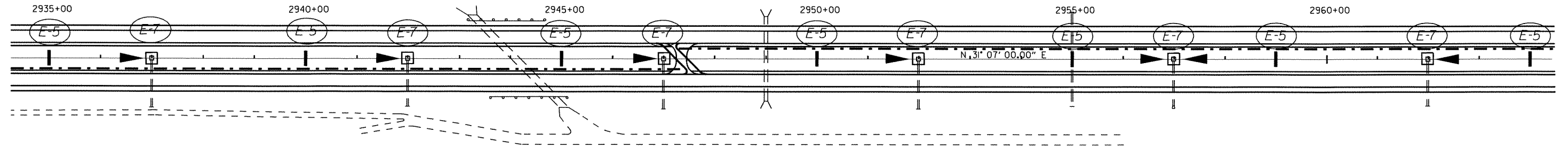






TEMPORARY EROSION CONTROL DETAILS
 STA. 2875+00 - STA. 2935+00

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				JOB NO.	012170	12	48	

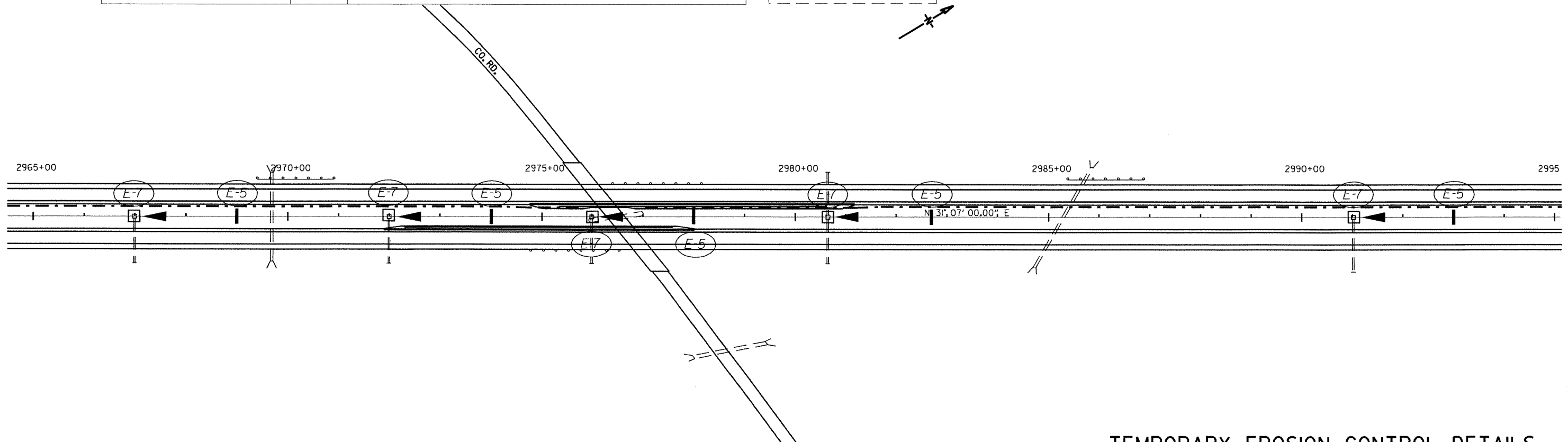
TEMPORARY EROSION CONTROL DETAILS



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

LEGEND

 INDICATES DIRECTION OF MEDIAN DRAINAGE

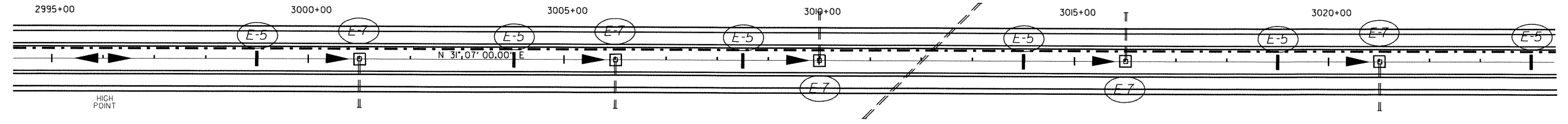


TEMPORARY EROSION CONTROL DETAILS
 STA. 2935+00 - STA. 2995+00

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-21-2013

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.	012170	13	48	

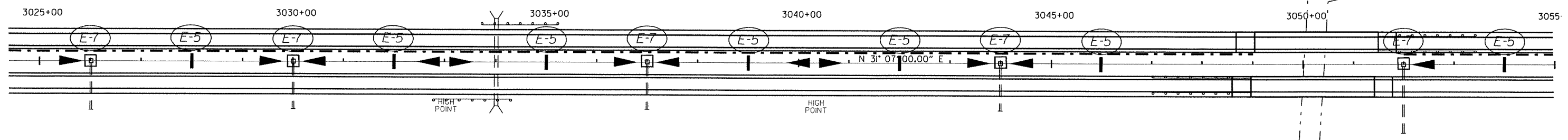
TEMPORARY EROSION CONTROL DETAILS



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

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



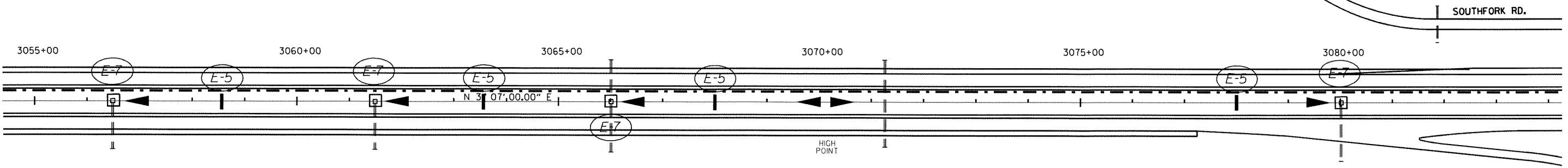
S. FORK TERRE NOIRE CREEK

TEMPORARY EROSION CONTROL DETAILS
 STA. 2995+00 - STA. 3055+00

STATE OF ARKANSAS
Jim D. Beavers
 REGISTERED PROFESSIONAL ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-22-2013

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.						012170	14	48

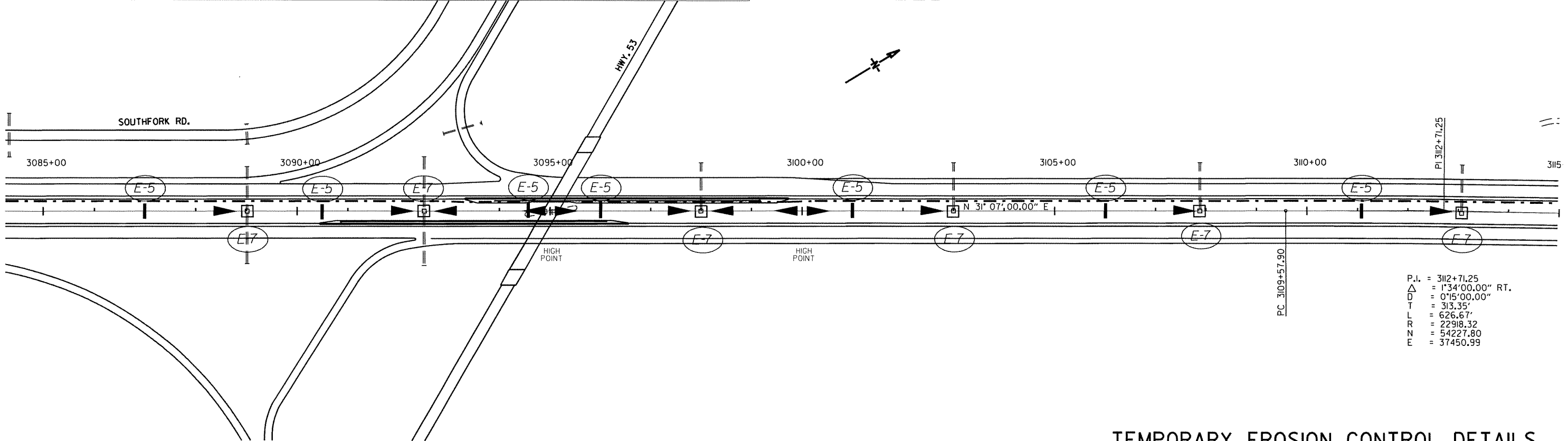
TEMPORARY EROSION CONTROL DETAILS



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

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



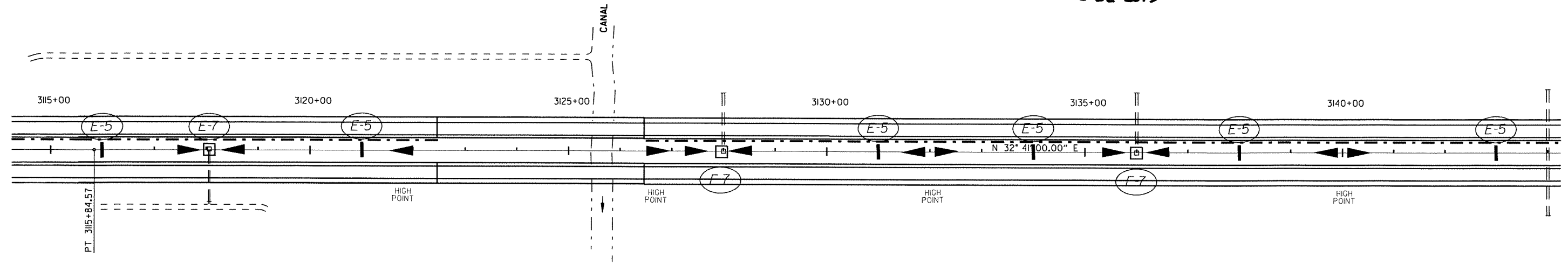
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 Δ = 1°34'00.00" RT.
 D = 0°15'00.00"
 T = 313.35'
 L = 626.67'
 R = 22918.32'
 N = 54227.80'
 E = 37450.99'

TEMPORARY EROSION CONTROL DETAILS
 STA. 3055+00 - STA. 3115+00

STATE OF ARKANSAS
Jim D. Beavers
 REGISTERED PROFESSIONAL ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-22-2013

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.	012170	15	48	

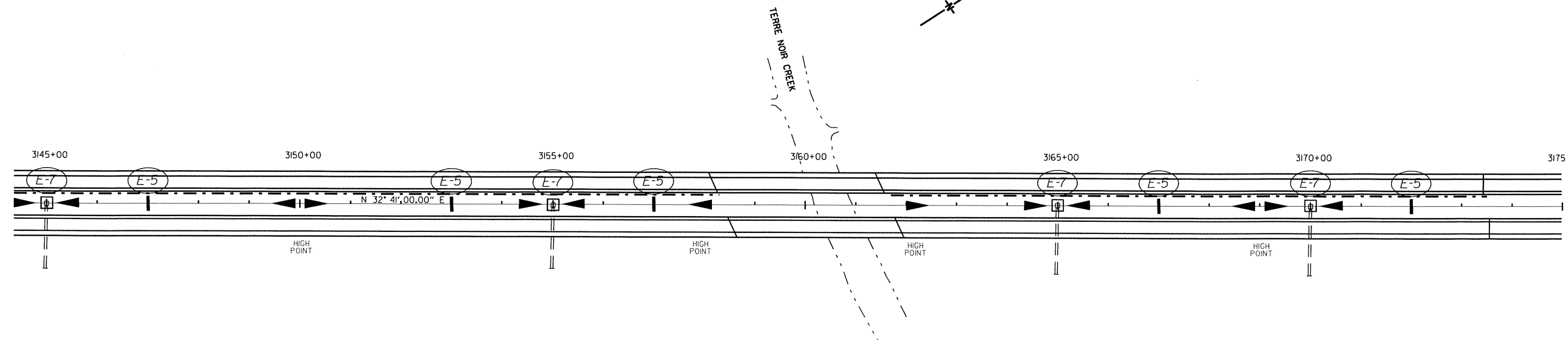
TEMPORARY EROSION CONTROL DETAILS



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

LEGEND

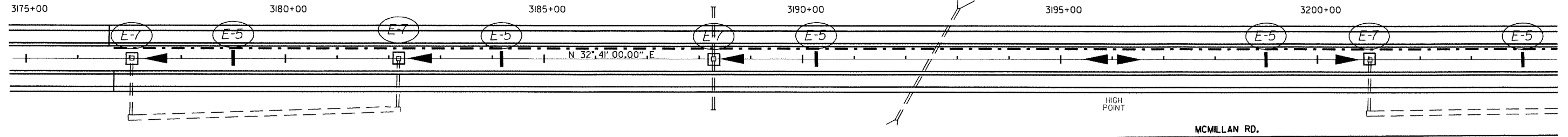
INDICATES DIRECTION OF MEDIAN DRAINAGE



TEMPORARY EROSION CONTROL DETAILS
 STA. 3115+00 - STA. 3175+00

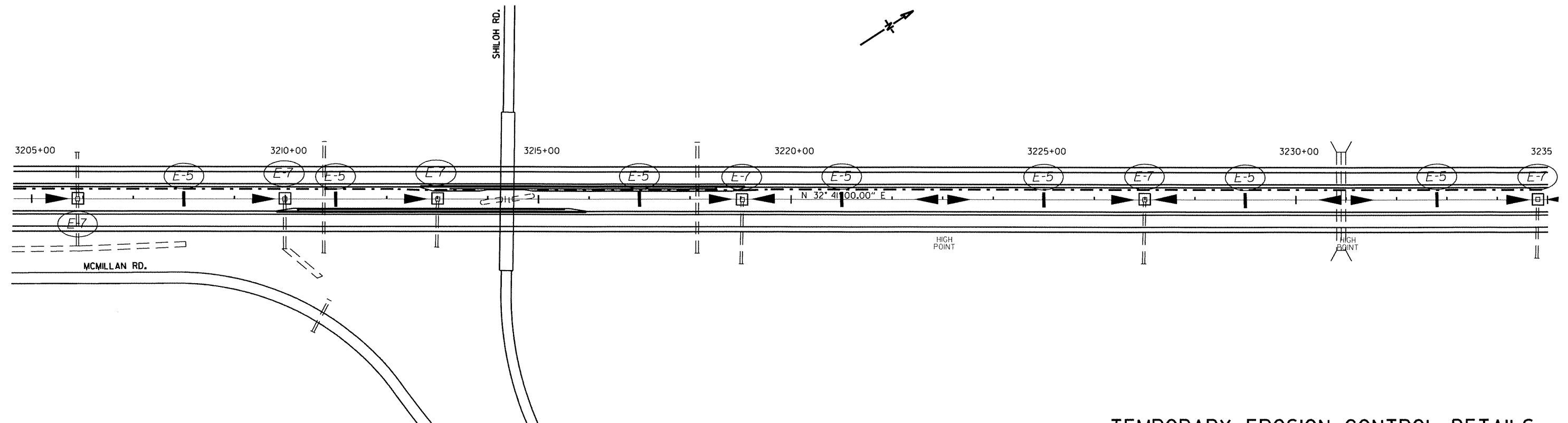
STATE OF ARKANSAS
Jim D. Beavers
 REGISTERED PROFESSIONAL ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-22-2013

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. 02170							16	48
TEMPORARY EROSION CONTROL DETAILS								



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

INDICATES DIRECTION OF MEDIAN DRAINAGE

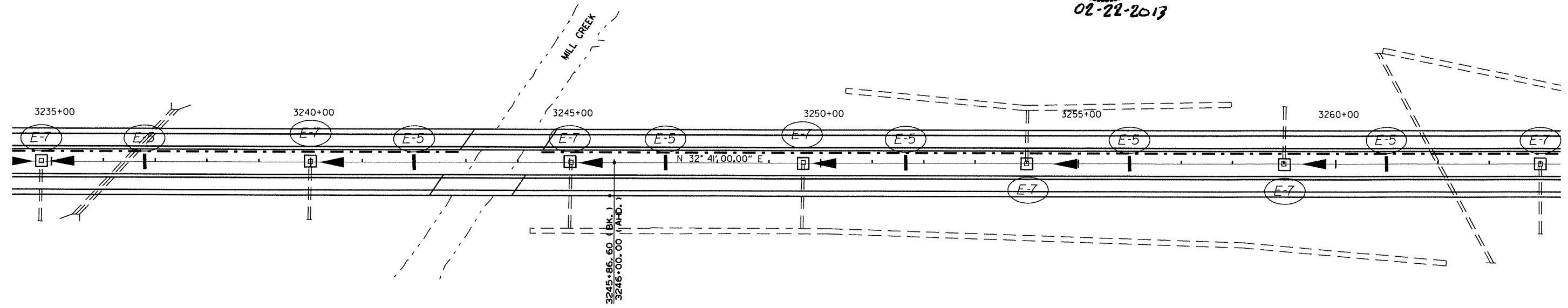


TEMPORARY EROSION CONTROL DETAILS
 STA. 3175+00 - STA. 3235+00

STATE OF ARKANSAS
Jim D. Beavers
 REGISTERED PROFESSIONAL ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-22-2013

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.	012170	17	48

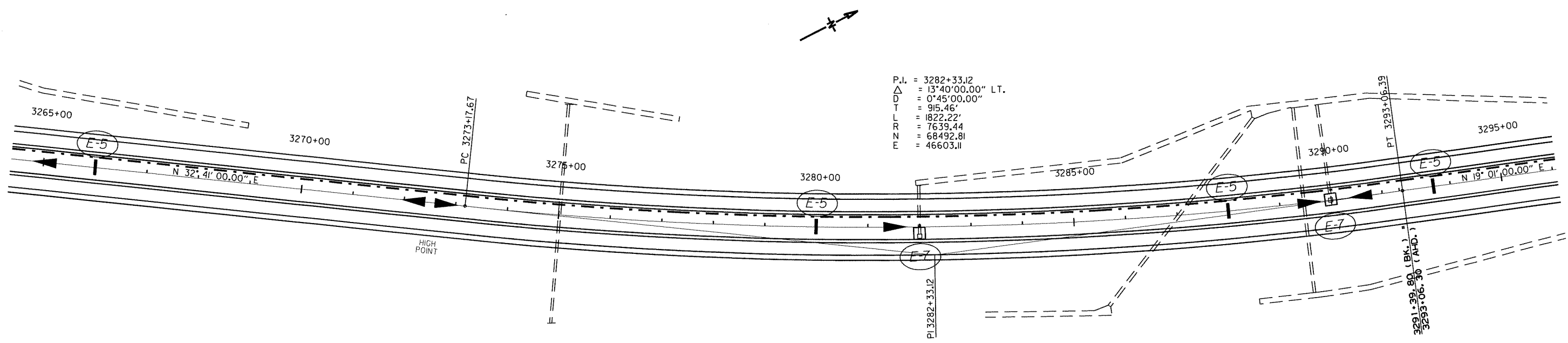
TEMPORARY EROSION CONTROL DETAILS



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

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE



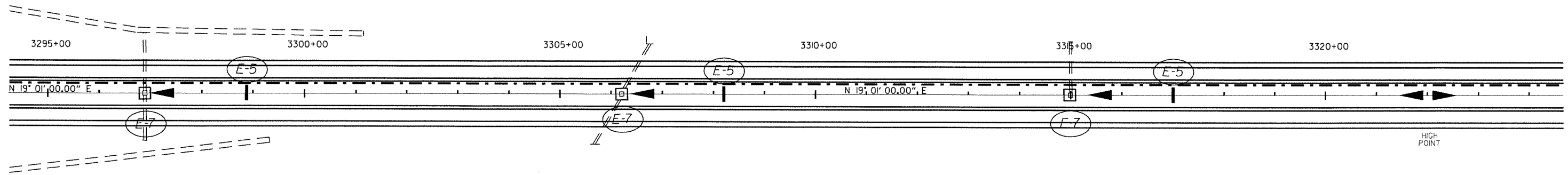
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 Δ = 13° 40' 00.00" LT.
 D T = 0° 45' 00.00"
 L = 915.46'
 FR = 1822.22'
 NZ = 7639.44'
 E = 68492.81'
 F = 46603.11'

TEMPORARY EROSION CONTROL DETAILS
 STA. 3235+00 - STA. 3295+00

STATE OF
 ARKANSAS
Jim D. Beavers
 REGISTERED
 PROFESSIONAL
 ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-22-2013

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.	012170	18	48	

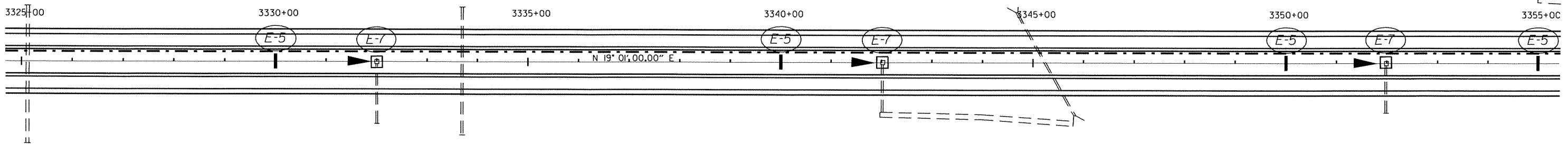
TEMPORARY EROSION CONTROL DETAILS



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

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

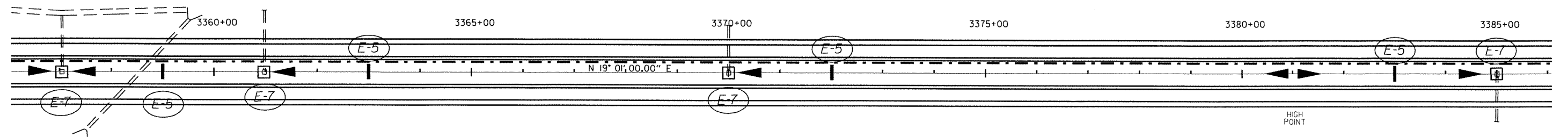


TEMPORARY EROSION CONTROL DETAILS
 STA. 3295+00 - STA. 3355+00

STATE OF ARKANSAS
Jim D. Beavers
 REGISTERED PROFESSIONAL ENGINEER
 No. 6646
 JIM D. BEAVERS
 02-22-2013

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.	012170		19	48

TEMPORARY EROSION CONTROL DETAILS

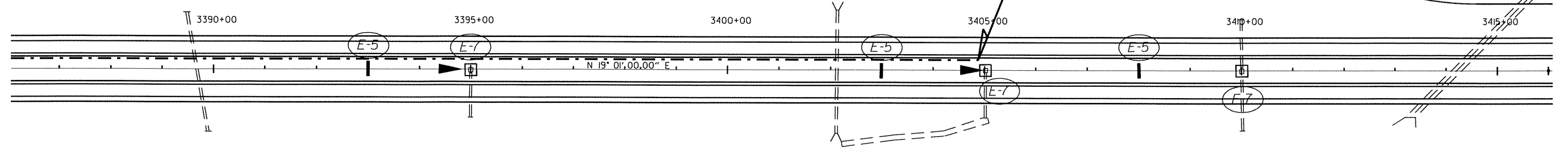


SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION

LEGEND

INDICATES DIRECTION OF MEDIAN DRAINAGE

STA. 3404+87.20
 END JOB 012170
 END SECTION 2
 END WRSF ON WB FORESLOPE
 LOG MILE 68.68



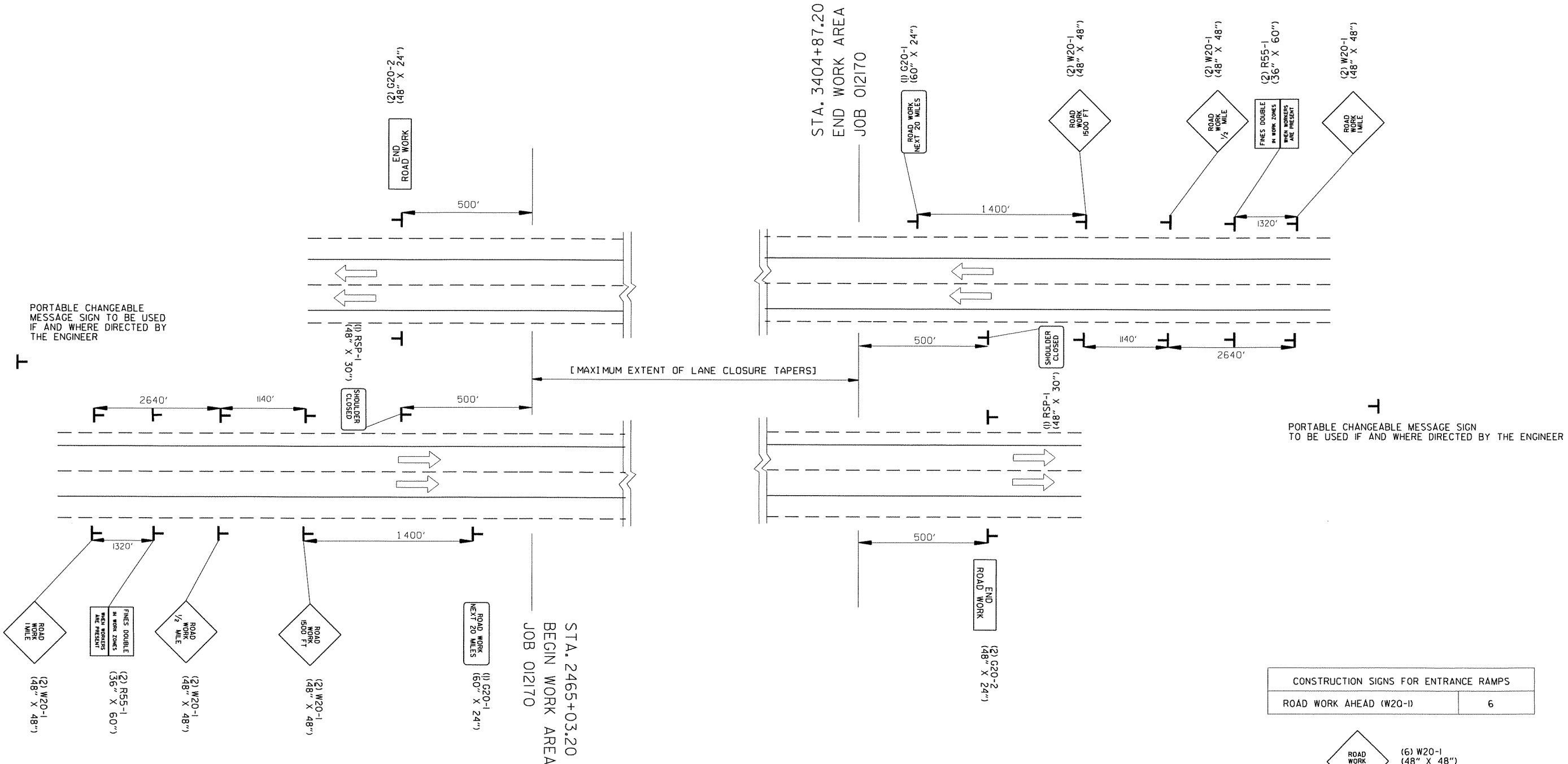
TEMPORARY EROSION CONTROL DETAILS
 STA. 3355+00 - STA. 3415+00



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.	012170	20	48	

MAINTENANCE OF TRAFFIC

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

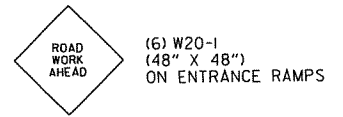


NOTE :
W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS
TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS
AS WORKING AREA SHIFTS.

ADVANCE SIGNS AT BEGINNING AND END OF JOB
ALL STAGES

MAINTENANCE OF TRAFFIC
ADVANCE SIGNS AT JOB ENDS

CONSTRUCTION SIGNS FOR ENTRANCE RAMP	
ROAD WORK AHEAD (W20-1)	6



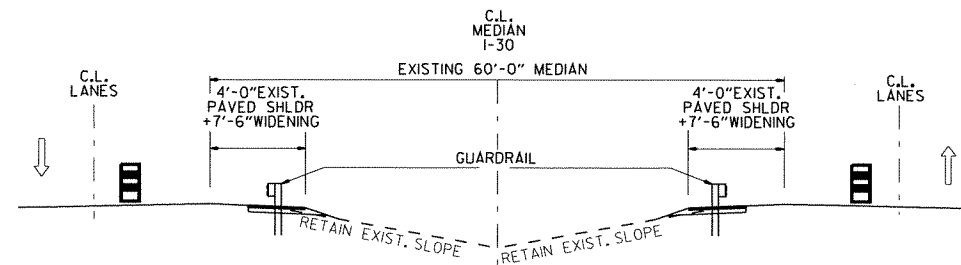
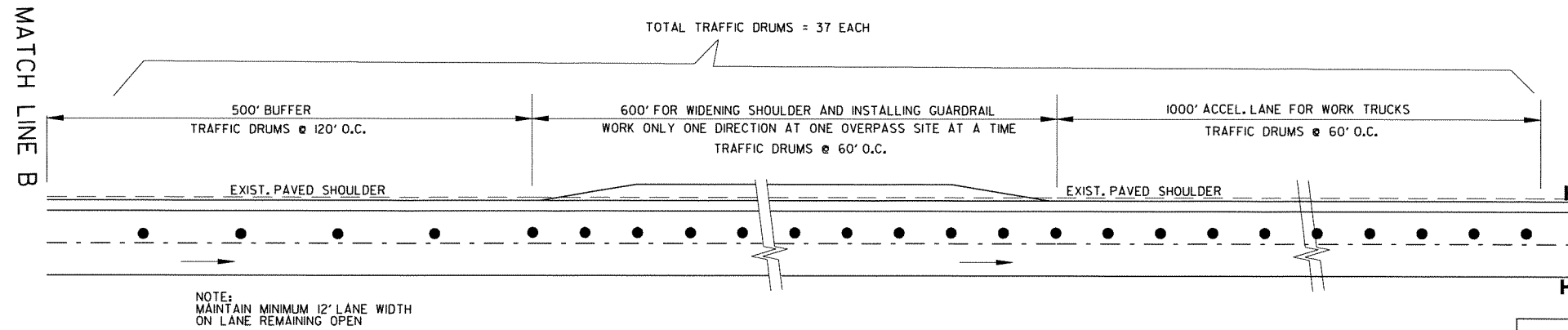
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02-22-2013

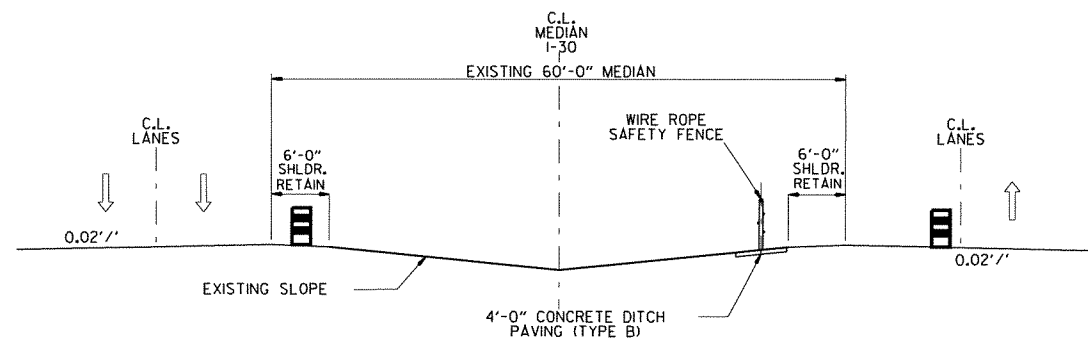
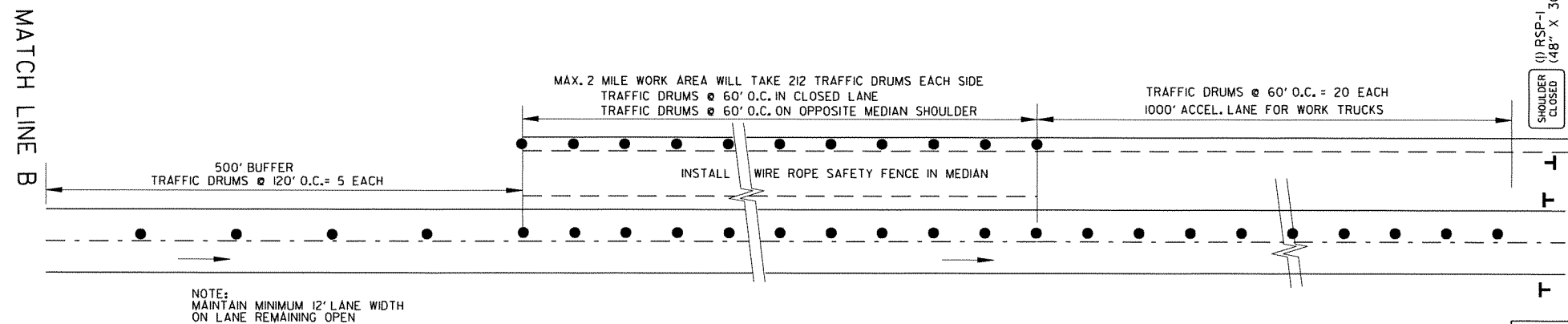
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 012170							22	48

MAINTENANCE OF TRAFFIC



SPEED LIMIT 60
(2) R2-1 (48" X 60")

MOVABLE WORK ZONE FOR GUARDRAIL INSTALLATION



SPEED LIMIT 60
(2) R2-1 (48" X 60")
(1) RSP-1 (48" X 30")

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 WRSF INSTALLATION

MAINTENANCE OF TRAFFIC WORK AREAS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6646 JIM D. BEAVERS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12280 BRIAN C. CLARK

02-25-2013 RESPONSIBLE FOR QUANTITIES IN EROSION CONTROL AND ADVANCED WARNING SIGNS AND DEVICES TABLES

2/28/13 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.		23	48
				JOB NO.	012170			

EARTHWORK

STATION	STATION	LOCATION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
2480+52	2486+78	RT. SHLDR. AT BOUGHTON RD. OVERPASS	81	82
2483+37	2489+81	LT. SHLDR. AT BOUGHTON RD. OVERPASS	81	82
2503+17	2503+39	MEDIAN CROSSING	45	49
2606+72	2612+83	RT. SHLDR. AT HWY. 51 OVERPASS	79	60
2609+57	2615+88	LT. SHLDR. AT HWY. 51 OVERPASS	83	63
2844+39	2844+61	MEDIAN CROSSING	48	51
2947+24	2947+48	MEDIAN CROSSING	48	50
2971+90	2978+01	RT. SHLDR. AT CO. RD. OVERPASS	79	60
2974+78	2981+17	LT. SHLDR. AT CO. RD. OVERPASS	83	63
3090+45	3096+58	RT. SHLDR. AT HWY. 53 OVERPASS	79	60
3093+23	3099+73	LT. SHLDR. AT HWY. 53 OVERPASS	84	64
3209+83	3215+94	RT. SHLDR. AT SHILOH RD. OVERPASS	79	60
3212+67	3219+08	LT. SHLDR. AT SHILOH RD. OVERPASS	83	63
TOTALS:			952	767

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

QUANTITIES ARE ESTIMATED FOR SLOPE MODIFICATION AND MEDIAN TURNAROUNDS REMOVAL AND CONSTRUCTION. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

REMOVAL AND DISPOSAL ITEMS

STATION	DESCRIPTION	IMPACT ATTENUATION BARRIER	PIPE CULVERTS
		EACH	EACH
2485+10	ON CENTERLINE OF MEDIAN	2	
2503+28	18" X 24" CMP IN MEDIAN		1
2811+25	ON CENTERLINE OF MEDIAN	2	
2976+45	ON CENTERLINE OF MEDIAN	2	
3095+00	ON CENTERLINE OF MEDIAN	2	
3214+40	ON CENTERLINE OF MEDIAN	2	
TOTAL:		10	1

STRUCTURES

STATION	DESCRIPTION	SIDE DRAIN
		18" LF
2503+26	AT MEDIAN CROSSING	34
TOTAL:		34

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 EACH	ADVANCE WARNING ARROW PANEL DAY	PORTABLE CHANGEABLE MESSAGE SIGN WEEK
			SQ.FT-LIN.FT.-EA	NO.	SQ.FT.			
W20-1	ROAD WORK 1 MILE	48"X48"	4	4	64			
W20-1	ROAD WORK 1/2 MILE	48"X48"	4	4	64			
W20-1	ROAD WORK 1500 FT.	48"X48"	4	4	64			
W20-1	ROAD WORK AHEAD	48"X48"	8	8	128			
G20-1	ROAD WORK NEXT xx MILES	60"X24"	2	2	20			
G20-2	END ROAD WORK	48"X24"	4	4	32			
SPECIAL 1	MERGE NOW + ARROW	48"X48"	1	1	18			
W20-5	RIGHT LANE CLOSED 1 MILE	48"X48"	2	2	32			
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"X48"	2	2	32			
W20-5	RIGHT LANE CLOSED 1500 FT.	48"X48"	2	2	32			
W4-2R	RIGHT LANE CLOSING GRAPHIC	48"X48"	2	2	32			
W1-6	LARGER ARROW	60"X30"	3	3	38			
R4-1	DO NOT PASS	48"X60"	4	4	80			
R55-1	FINES DOUBLE IN WORK ZONES	36"X60"	4	4	60			
R2-5A	REDUCED SPEED AHEAD	48"X60"	2	2	40			
R2-1	SPEED LIMIT 60 MPH	48"X80"	6	6	120			
RSP-1	SHOULDER CLOSED	48"X30"	3	3	30			
TOTALS:				494	884	494	80	38

NOTE: THIS IS A HIGH VOLUME ROAD AS DEFINED IN SECTION 604.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2003.

EROSION CONTROL

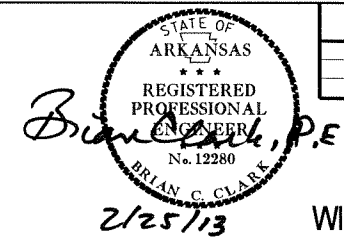
LOCATION	TEMPORARY EROSION CONTROL						PERMANENT EROSION CONTROL				
	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	DROP INLET SILT FENCE (E-7)	SEDIMENT REMOVAL AND DISPOSAL	SEEDING	LIME	MULCH COVER	SECOND SEEDING APPLICATION	WATER
	ACRE	ACRE	M.GAL.	BAG	LIN.FT.	C.Y.	ACRE	TON	ACRE	ACRE	M.GAL.
ENTIRE JOB	0.69	0.69	14.1	2700	3450	330	0.69	2	0.69	0.69	70.4
ENTIRE PROJECT IF AND WHERE DIRECTED BY THE ENGINEER				1000							
TOTALS:	0.69	0.69	14.1	3700	3450	330	0.69	2	0.69	0.69	70.4

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.

QUANTITIES

27257203 10:31:50 AM


 B. Clark, P.E.
 2/25/13

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.	012170	24	48	
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. VMD. FEET	SQ. YD.	POUND / SQ. YD.	TON
2480+52	2486+78	RT. SHLDR. AT BOUGHTON RD. OVERPASS	626.0	44.75	280	7.7	538	220.0	59
2483+37	2489+61	LT. SHLDR. AT BOUGHTON RD. OVERPASS	624.0	35.00	218	7.8	539	220.0	59
2503+17	2503+39	MEDIAN CROSSING	22.0	29.25	6	66.7	163	220.0	18
2606+72	2612+83	RT. SHLDR. AT HWY. 51 OVERPASS	611.0	35.00	214	7.2	492	220.0	54
2609+57	2615+98	LT. SHLDR. AT HWY. 51 OVERPASS	641.0	44.75	287	9.5	676	220.0	74
2844+39	2844+61	MEDIAN CROSSING	22.0	29.25	6	66.7	163	220.0	18
2947+24	2947+46	MEDIAN CROSSING	22.0	29.25	6	66.7	163	220.0	18
2971+90	2978+01	RT. SHLDR. AT CO. RD. OVERPASS	611.0	35.00	214	7.2	491	220.0	54
2974+76	2981+17	LT. SHLDR. AT CO. RD. OVERPASS	641.0	44.75	287	9.4	670	220.0	74
3090+45	3096+56	RT. SHLDR. AT HWY. 53 OVERPASS	611.0	35.00	214	7.2	491	220.0	54
3093+23	3099+73	LT. SHLDR. AT HWY. 53 OVERPASS	650.0	44.75	291	9.3	669	220.0	74
3209+83	3215+94	RT. SHLDR. AT SHILOH RD. OVERPASS	611.0	35.00	214	7.2	492	220.0	54
3212+67	3219+08	LT. SHLDR. AT SHILOH RD. OVERPASS	641.0	44.75	287	9.4	669	220.0	74
TOTALS:					2524		6216		684

BASIS OF ESTIMATE:
 110 LBS. PER SQ. YD. PER INCH DEPTH
 ACHM SURFACE COURSE (1/2").....94.7% MIN. AGGR.....5.3% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115

WIRE ROPE SAFETY FENCE

STATION	STATION	STATION EQUATION	LOCATION	WIRE ROPE SAFETY FENCE	Ø WRSF ANCHOR	WRSF MAINTENANCE MATERIALS
				LIN. FT.	EACH	LUMP SUM
2465+03.20	2478+57.60	BK.	LT OF CL I-30	1354	1	
2478+18.60	2484+45.00	AHD.	LT OF CL I-30	626	1	
2485+70.00	2503+33.00		RT OF CL I-30	1763	2	
2503+23.00	2537+20.00		LT OF CL I-30	3397	2	
2539+30.00	2552+50.00		LT OF CL I-30	1320	2	
2557+90.00	2575+40.00		LT OF CL I-30	1750	2	
2585+00.00	2610+65.00		LT OF CL I-30	2565	2	
2611+65.00	2685+20.80		LT OF CL I-30	7356	2	
2844+80.00	2867+80.00		LT OF CL I-30	2300	2	
2871+00.00	2921+10.20	BK.	RT OF CL I-30	5010	1	
2920+74.10	2947+40.00	AHD.	LT OF CL I-30	2666	1	
2947+30.00	2975+72.00		LT OF CL I-30	2842	2	
2976+92.00	3049+00.00		LT OF CL I-30	7208	2	
3052+00.00	3094+40.00		LT OF CL I-30	4240	2	
3095+63.00	3122+50.00		LT OF CL I-30	2687	2	
3126+50.00	3158+30.00		LT OF CL I-30	3180	2	
3161+70.00	3173+50.00		LT OF CL I-30	1180	2	
3176+70.00	3213+75.00		LT OF CL I-30	3705	2	
3214+98.00	3242+87.00		LT OF CL I-30	2789	2	
3244+46.00	3245+86.60	BK.	LT OF CL I-30	141	1	
3246+00.00	3291+39.80	AHD./BK.	LT OF CL I-30	4540	0	
3293+06.30	3404+87.20	AHD.	LT OF CL I-30	11181	1	
ENTIRE PROJECT						1.00
TOTALS:				73800	36	1.00

◇ THIS ITEM SHOWN FOR INFORMATION ONLY

GUARDRAIL

STATION	STATION	LOCATION	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
			LIN. FT.	EACH	
2480+95.00	2485+95.00	RT. SHLDR. AT BOUGHTON RD. OVERPASS	450	1	1
2484+20.00	2489+20.00	LT. SHLDR. AT BOUGHTON RD. OVERPASS	450	1	1
2607+15.00	2612+15.00	RT. SHLDR. AT HWY. 51 OVERPASS	450	1	1
2610+40.00	2615+40.00	LT. SHLDR. AT HWY. 51 OVERPASS	450	1	1
2972+33.00	2977+33.00	RT. SHLDR. AT CO. RD. OVERPASS	450	1	1
2975+59.00	2980+59.00	LT. SHLDR. AT CO. RD. OVERPASS	450	1	1
3090+88.00	3095+88.00	RT. SHLDR. AT HWY. 53 OVERPASS	450	1	1
3094+15.00	3099+15.00	LT. SHLDR. AT HWY. 53 OVERPASS	450	1	1
3210+26.00	3215+26.00	LT. SHLDR. AT SHILOH RD. OVERPASS	450	1	1
3213+50.00	3218+50.00	RT. SHLDR. AT SHILOH RD. OVERPASS	450	1	1
TOTALS:			4500	10	10

CONCRETE DITCH PAVING

STATION	STATION	STATION EQUATION	LOCATION	LENGTH	WIDTH	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
				FEET	FEET	SQ. YD.		M. GAL.
2465+03.20	2478+57.60	BK.	LT OF CL I-30	1354	4	602	301	3.8
2478+18.60	2483+54.00	AHD.	LT OF CL I-30	535	4	238	119	1.5
2486+61.00	2503+33.00		RT OF CL I-30	1672	4	743	372	4.7
2503+23.00	2537+20.00		LT OF CL I-30	3397	4	1510	755	9.5
2539+30.00	2552+50.00		LT OF CL I-30	1320	4	587	293	3.7
2557+90.00	2575+40.00		LT OF CL I-30	1750	4	778	389	4.9
2585+00.00	2609+74.00		LT OF CL I-30	2474	4	1100	550	6.9
2615+81.00	2685+20.80		LT OF CL I-30	6940	4	3084	1542	19.4
2844+80.00	2867+80.00		LT OF CL I-30	2300	4	1022	511	6.4
2871+00.00	2921+10.20	BK.	RT OF CL I-30	5010	4	2227	1113	14.0
2920+74.10	2947+40.00	AHD.	RT OF CL I-30	2666	4	1185	592	7.5
2947+30.00	2974+93.00		LT OF CL I-30	2763	4	1228	614	7.7
2981+00.00	3049+00.00		LT OF CL I-30	6800	4	3022	1511	19.0
3052+00.00	3093+50.00		LT OF CL I-30	4150	4	1844	922	11.6
3099+56.00	3122+50.00		LT OF CL I-30	2294	4	1020	510	6.4
3126+50.00	3158+30.00		LT OF CL I-30	3180	4	1413	707	8.9
3161+70.00	3173+50.00		LT OF CL I-30	1180	4	524	262	3.3
3176+70.00	3212+84.00		LT OF CL I-30	3614	4	1606	803	10.1
3218+91.00	3242+87.00		LT OF CL I-30	2396	4	1065	532	6.7
3244+46.00	3245+86.60	BK.	LT OF CL I-30	141	4	63	31	0.4
3246+00.00	3291+39.80	AHD./BK.	LT OF CL I-30	4540	4	2018	1009	12.7
3293+06.30	3404+87.20	AHD.	LT OF CL I-30	11181	4	4969	2485	31.3
TOTALS:						31848	15923	200.4

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

QUANTITIES

2/25/2013 10:58:55 AM P:\00029529\CA00\GEN\30sum02.dgn

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6646
 STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12280
 JIM D. BEAVERS B. CLARK, P.E.
 02-28-2013 2/28/13
 RESPONSIBLE FOR QUANTITIES IN EROSION CONTROL AND ADVANCED 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.	012170	25 48

SUMMARY OF QUANTITIES AND REVISIONS

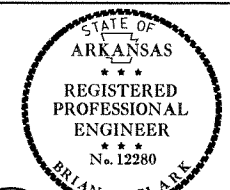
SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER	10	EACH
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS	1	EACH
210	UNCLASSIFIED EXCAVATION	952	CU. YD.
210	COMPACTED EMBANKMENT	767	CU. YD.
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	2524	TON
SP, SS & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	648	TON
SP, SS & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	36	TON
601	MOBILIZATION	1.00	LUMP SUM
SP, SS & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	884	SQ. FT.
SS & 604	TRAFFIC DRUMS	494	EACH
SS & 604	ADVANCE WARNING ARROW PANEL	80	DAY
SP, SS & 604	PORTABLE CHANGEABLE MESSAGE SIGN	38	WEEK
SP & 605	CONCRETE DITCH PAVING (TYPE B)	31848	SQ. YD.
SP, SS & 606	18" SIDE DRAIN	34	LIN. FT.
SS & 617	GUARDRAIL (TYPE A)	4500	LIN. FT.
SS & 617	TERMINAL ANCHOR POSTS (TYPE 1)	10	EACH
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	10	EACH
620	SEEDING	0.69	ACRE
620	LIME	2	TON
620	MULCH COVER	1.38	ACRE
SS & 620	WATER	284.9	M. GAL
621	TEMPORARY SEEDING	0.69	ACRE
621	SAND BAG DITCH CHECKS	3700	BAG
621	DROP INLET SILT FENCE	3450	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	330	CU. YD.
623	SECOND SEEDING APPLICATION	0.69	ACRE
624	SOLID SODDING	15923	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE	73800	LIN. FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM

REVISIONS

DATE	REVISION	SHEET NUMBER

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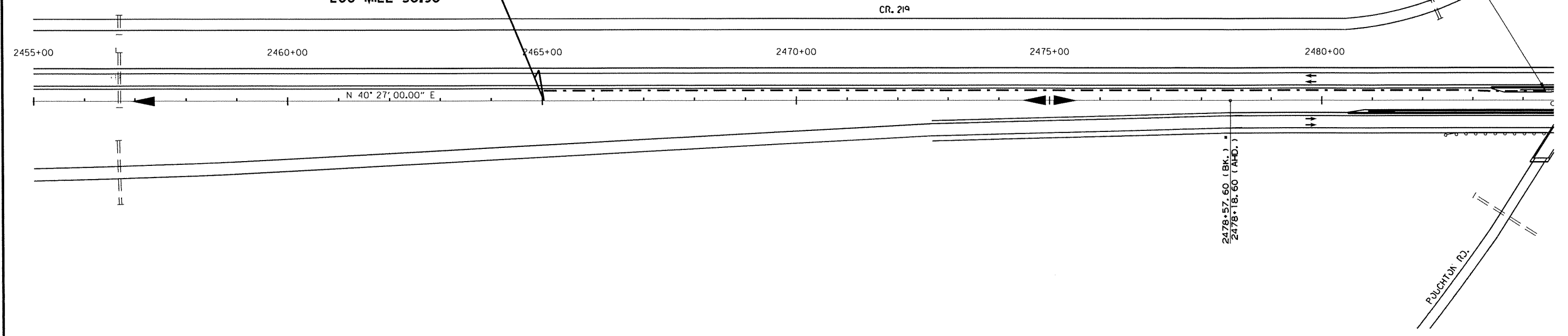


Brian G. Clark, P.E.
2/22/13

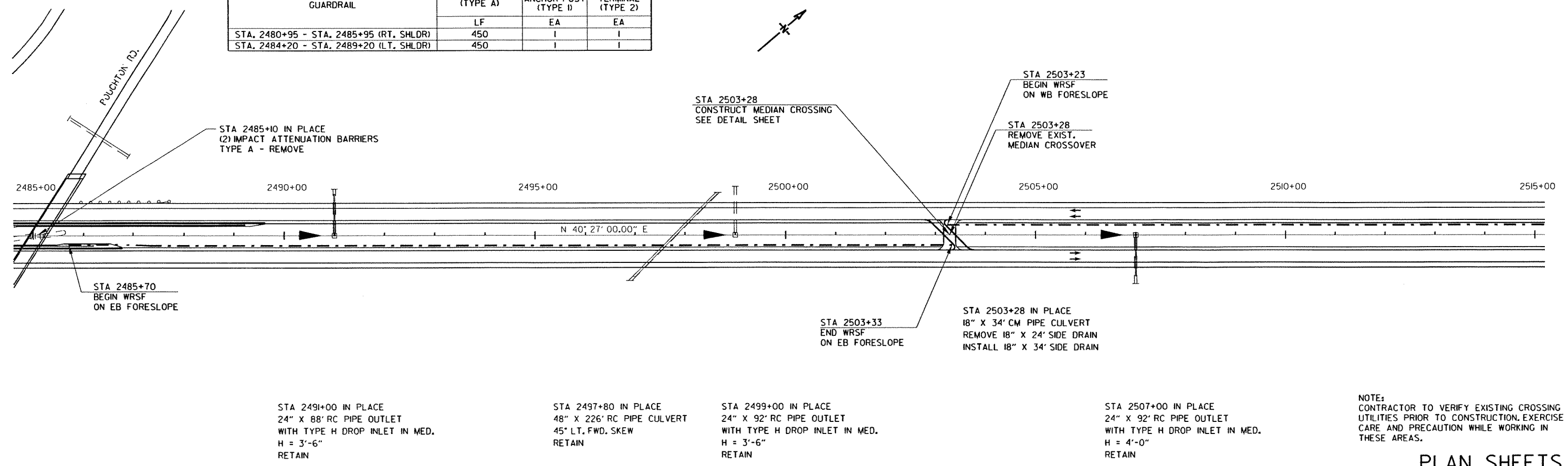
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				6	ARK.			
						JOB NO.	012170	26
						PLAN SHEETS		

STA. 2465+03.20
BEGIN JOB 012170
BEGIN SECTION 1
BEGIN WRSF
ON WB FORESLOPE
LOG MILE 50.90

STA 2484+45
END WRSF
ON WB FORESLOPE



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 2480+95 - STA. 2485+95 (RT. SHLDR)	450	I	I
STA. 2484+20 - STA. 2489+20 (LT. SHLDR)	450	I	I



STA 2491+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2497+80 IN PLACE
48" X 226' RC PIPE CULVERT
45° LT. FWD. SKEW
RETAIN

STA 2499+00 IN PLACE
24" X 92' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2507+00 IN PLACE
24" X 92' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 4'-0"
RETAIN

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

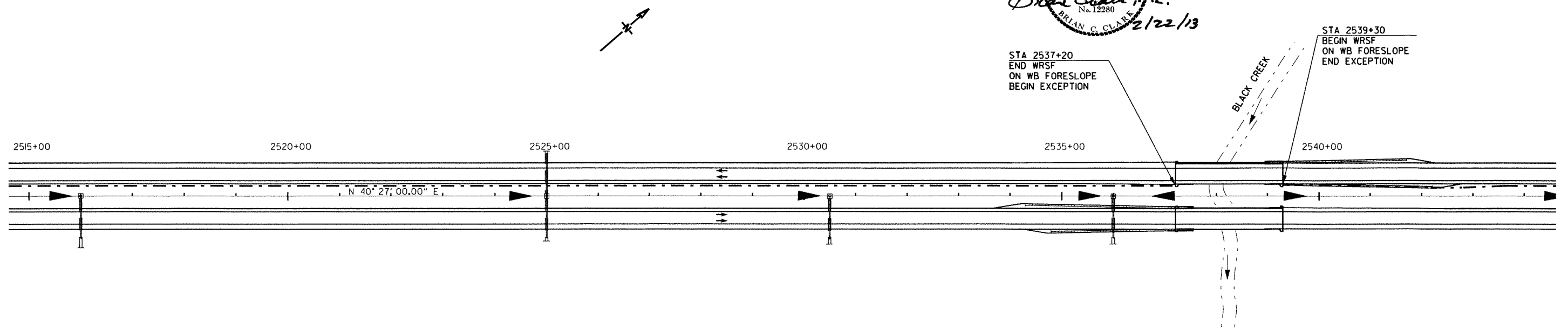
PLAN SHEETS
STA. 2455+00 - STA. 2515+00

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STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 BRIAN C. CLARK
 No. 12280
 2/22/13

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. 012170							27	48

PLAN SHEETS



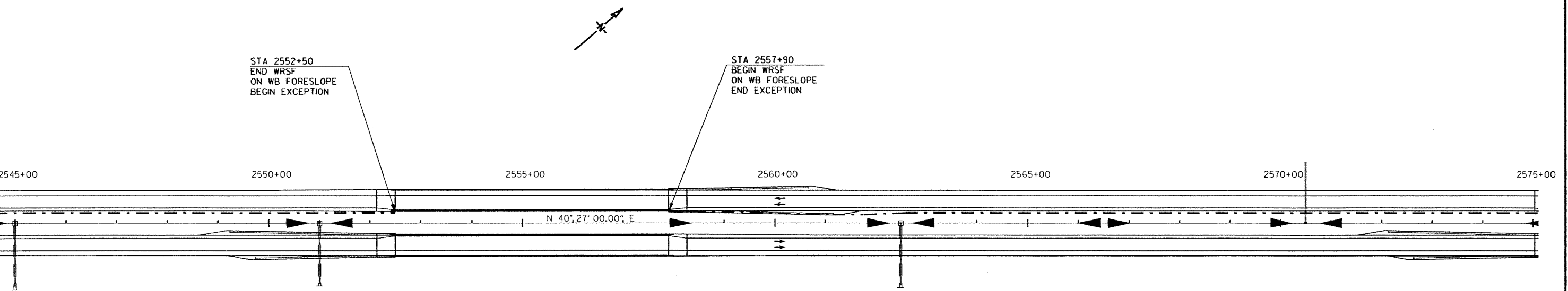
STA 2516+00 IN PLACE
 24" X 96' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 5'-0"
 RETAIN

STA 2525+00 IN PLACE
 36" X 174' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 7'-0"
 RETAIN

STA 2530+50 IN PLACE
 24" X 84' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 2536+00 IN PLACE
 24" X 82' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

NOTE:
 SEE DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS FOR ADDITIONAL INFORMATION.



STA 2552+50
 END WRSF
 ON WB FORESLOPE
 BEGIN EXCEPTION

STA 2557+90
 BEGIN WRSF
 ON WB FORESLOPE
 END EXCEPTION

STA 2545+00 IN PLACE
 24" X 126' RC PIPE OUTLET
 WITH TYPE M DROP INLET IN MED.
 H = 12'-8"
 RETAIN

STA 2551+00 IN PLACE
 24" X 118' RC PIPE OUTLET
 WITH TYPE M DROP INLET IN MED.
 H = 12'-8"
 RETAIN

STA 2562+50 IN PLACE
 24" X 122' RC PIPE OUTLET
 WITH TYPE M DROP INLET IN MED.
 H = 12'-8"
 RETAIN

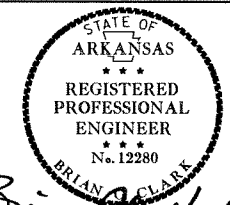
STA 2570+50 IN PLACE
 24" X 120' RC PIPE OUTLET
 WITH TYPE M DROP INLET IN MED.
 H = 12'-8"
 RETAIN

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

PLAN SHEETS
 STA. 2515+00 - STA. 2575+00

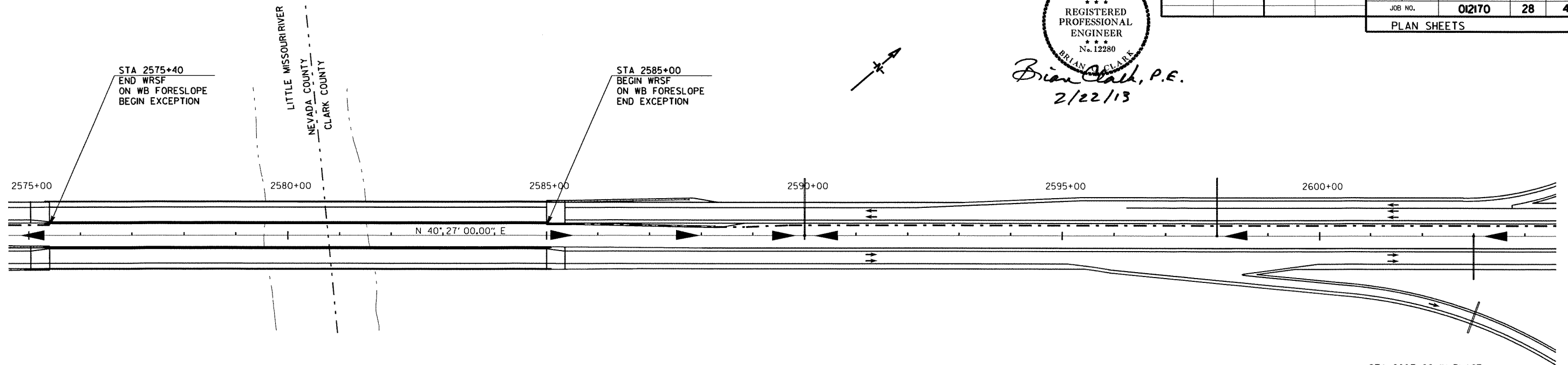
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Brian Clark, P.E.
2/22/13

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. 012170							28	48
PLAN SHEETS								



STA 2575+40
END WRSF
ON WB FORESLOPE
BEGIN EXCEPTION

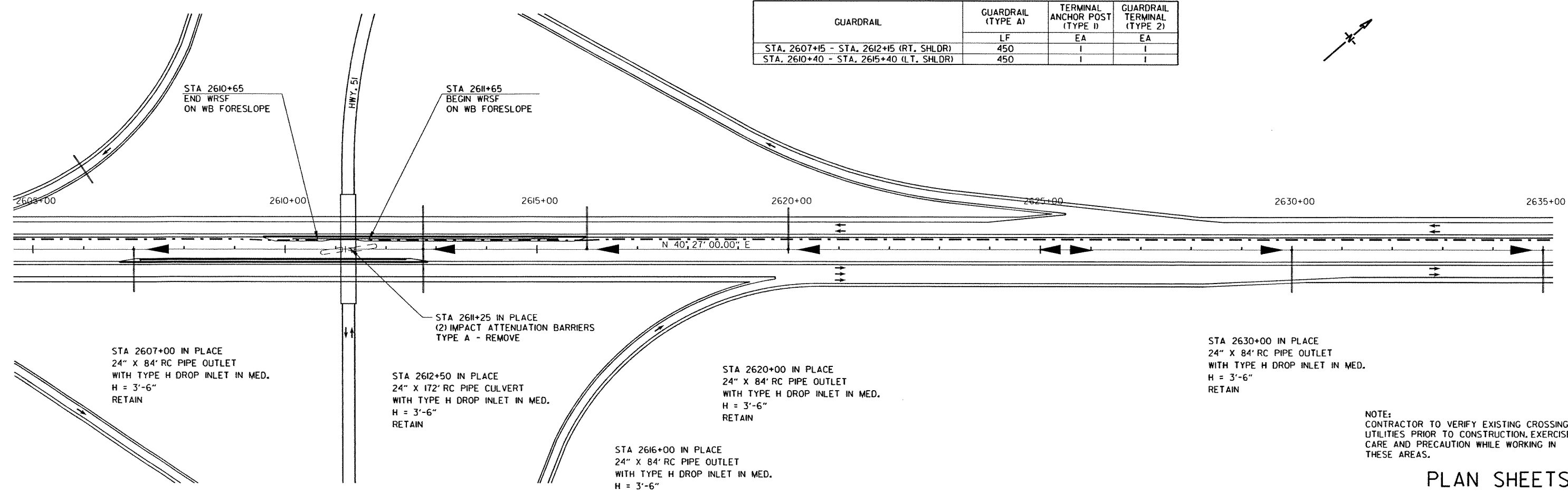
STA 2585+00
BEGIN WRSF
ON WB FORESLOPE
END EXCEPTION

STA 2590+00 IN PLACE
18" X 112' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 2598+00 IN PLACE
18" X 112' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 2603+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

NOTE:
SEE DETAIL OF WIRE ROPE
SAFETY FENCE AT EXISTING
BRIDGE ENDS FOR ADDITIONAL
INFORMATION.



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
STA. 2607+15 - STA. 2612+15 (RT. SHLDR)	LF	EA	EA
STA. 2610+40 - STA. 2615+40 (LT. SHLDR)	450	I	I
	450	I	I

STA 2610+65
END WRSF
ON WB FORESLOPE

STA 2611+65
BEGIN WRSF
ON WB FORESLOPE

STA 2607+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2612+50 IN PLACE
24" X 172' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2616+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2611+25 IN PLACE
(2) IMPACT ATTENUATION BARRIERS
TYPE A - REMOVE

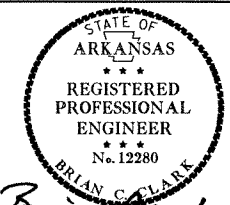
STA 2620+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2630+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

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

PLAN SHEETS
STA. 2575+00 - STA. 2635+00

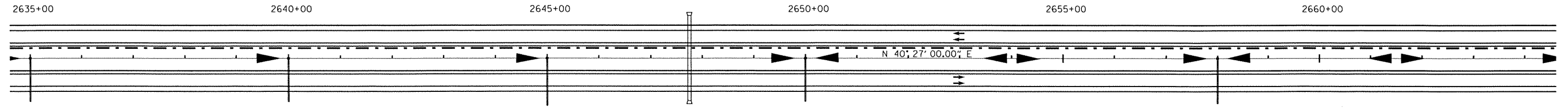
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Brian Clark, P.E.
2/22/13

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. 012170	29	48

PLAN SHEETS



STA 2635+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

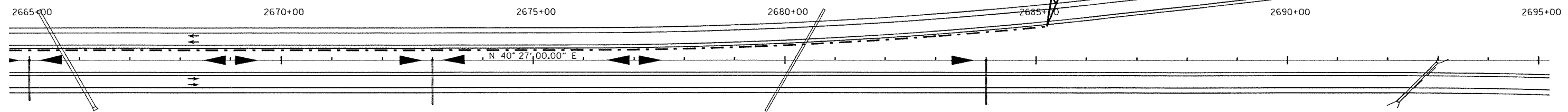
STA 2647+75 IN PLACE
6' X 4' X 165' RC BOX CULVERT
WITH TYPE H DROP INLET IN MED.
RETAIN

STA 2640+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2645+00 IN PLACE
24" X 92' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN

STA 2650+00 IN PLACE
24" X 84' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN

STA 2658+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN



STA. 2685+20.80
END SECTION I
END WRSF
ON WB FORESLOPE
BEGIN EXCEPTION
LOG MILE 55.08

STA 2694+00 IN PLACE
5' X 3' X 96' RC BOX CULVERT
30° LT. FWD. SKEW
RETAIN

STA 2665+75 IN PLACE
DBL. 6' X 5' X 215' RC BOX CULVERT
30° RT. FWD. SKEW
RETAIN

STA 2692+60 IN PLACE
5' X 3' X 111' RC BOX CULVERT
45° LT. FWD. SKEW
RETAIN

STA 2665+00 IN PLACE
24" X 80' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2673+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN

STA 2680+20 IN PLACE
48" X 232' RC PIPE CULVERT
30° LT. FWD. SKEW
RETAIN

STA 2684+00 IN PLACE
24" X 94' 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. 2635+00 - STA. 2695+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. 012170							30	48

PLAN SHEETS

STA 2828+12 IN PLACE
5' X 4' X 121' RC BOX CULVERT
30° RT. FWD. SKEW
RETAIN

Brian Clark, P.E.
2/22/13

P.I. = 2837+27.75
Δ = 5°46'00.00" LT.
O.T. = 0°30'00.00"
L. = 577.15'
R. = 1153.33'
P.N.Z. = 11459.16
E. = 31346.09
= 22234.20

STA 2844+45
CONSTRUCT MEDIAN CROSSING
SEE DETAIL SHEET

STA. 2844+00.00
END EXCEPTION

STA 2842+19 IN PLACE
8' X 7' X 184' RC BOX CULVERT
RETAIN

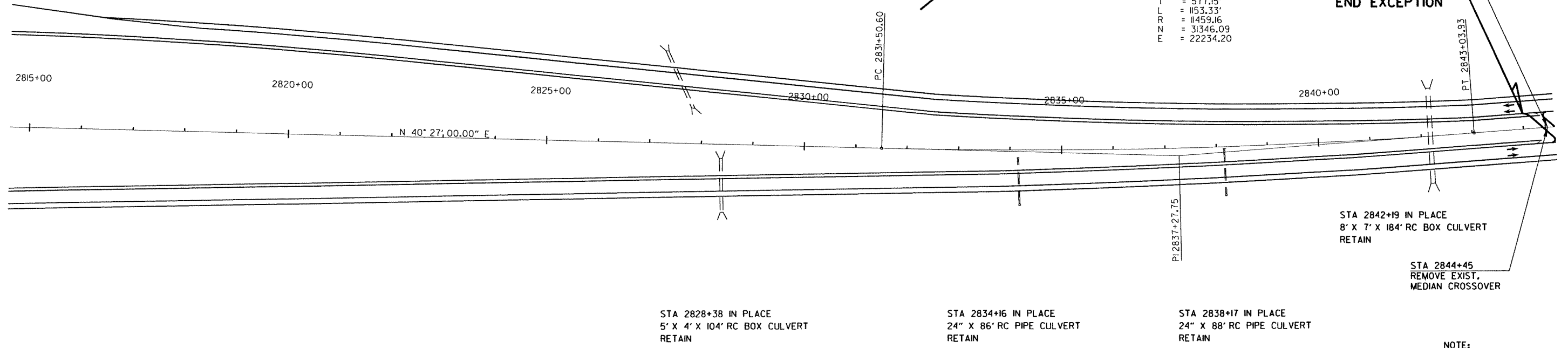
STA 2844+45
REMOVE EXIST.
MEDIAN CROSSOVER

STA 2828+38 IN PLACE
5' X 4' X 104' RC BOX CULVERT
RETAIN

STA 2834+16 IN PLACE
24" X 86' RC PIPE CULVERT
RETAIN

STA 2838+17 IN PLACE
24" X 88' RC PIPE CULVERT
RETAIN

NOTE:
SEE DETAIL OF WIRE ROPE
SAFETY FENCE AT EXISTING
BRIDGE ENDS FOR ADDITIONAL
INFORMATION.

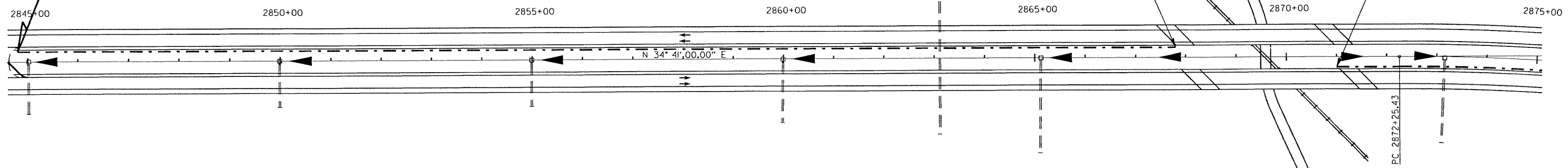


STA. 2844+80.00
BEGIN SECTION 2
BEGIN WRSF
ON WB FORESLOPE
LOG MILE 58.10

STA 2867+80
END WRSF
ON WB FORESLOPE
BEGIN EXCEPTION

STA 2873+17 IN PLACE
18" X 164' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 2871+00
BEGIN WRSF
ON EB FORESLOPE
END EXCEPTION



STA 2845+00 IN PLACE
24" X 100' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 6'-6"
RETAIN

STA 2850+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 2855+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

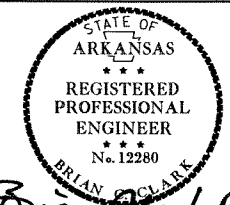
STA 2860+00 IN PLACE
18" X 122' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 2863+12 IN PLACE
30" X 300' RC PIPE CULVERT
RETAIN

STA 2865+13 IN PLACE
18" X 184' RC PIPE OUTLET
WITH TYPE H 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.

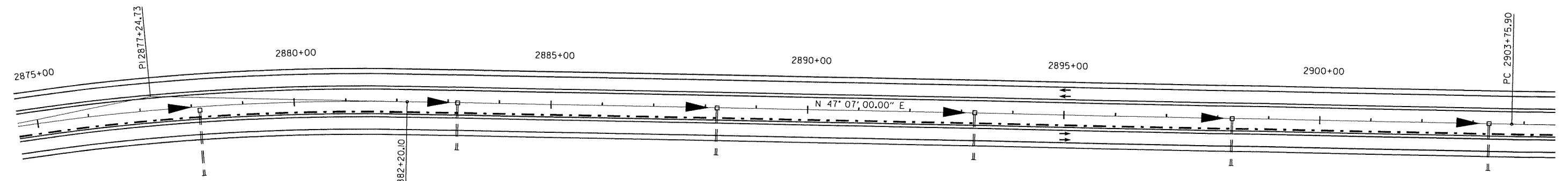
PLAN SHEETS
STA. 2815+00 - STA. 2875+00



Brian Clark, P.E.
2/22/13

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. 012170	31	48

PLAN SHEETS



P.I. = 2877+24.73
 Δ = 12°26'00.04" RT.
 D = 1°15'00.00"
 T = 499.29'
 L = 994.67'
 R = 4583.66
 N = 34633.64
 E = 24509.19

STA 2878+17 IN PLACE
 18" X 114' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-0"
 RETAIN

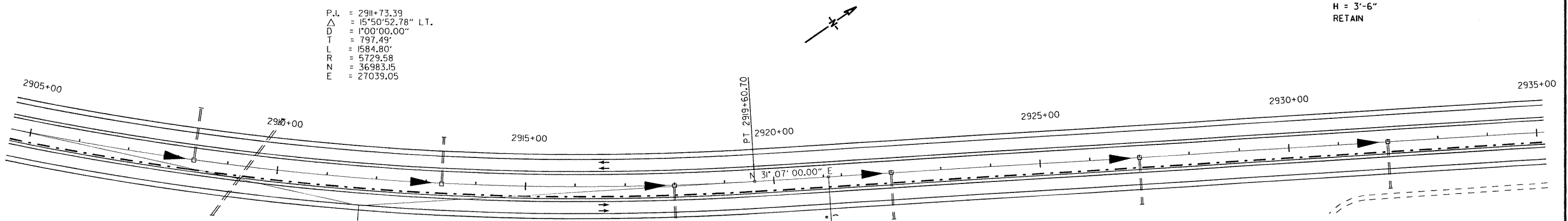
STA 2883+19 IN PLACE
 24" X 88' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 4'-0"
 RETAIN

STA 2888+23 IN PLACE
 24" X 86' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 2893+26 IN PLACE
 24" X 86' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 2898+29 IN PLACE
 24" X 86' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 2903+32 IN PLACE
 24" X 88' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN



P.I. = 2911+73.39
 Δ = 15°50'52.78" LT.
 D = 1°00'00.00"
 T = 797.49'
 L = 1584.80'
 R = 5729.58
 N = 36983.15
 E = 27039.05

STA 2908+32 IN PLACE
 24" X 102' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-0"
 RETAIN

STA 2909+40 IN PLACE
 48" X 240' RC PIPE CULVERT
 30° LT. FWD. SKEW
 RETAIN

STA 2913+32 IN PLACE
 24" X 86' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 2918+00 IN PLACE
 24" X 92' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 2922+00 IN PLACE
 24" X 90' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

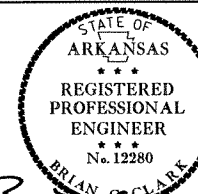
STA 2927+00 IN PLACE
 24" X 90' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 2932+00 IN PLACE
 24" X 90' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

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

PLAN SHEETS
 STA. 2875+00 - STA. 2935+00

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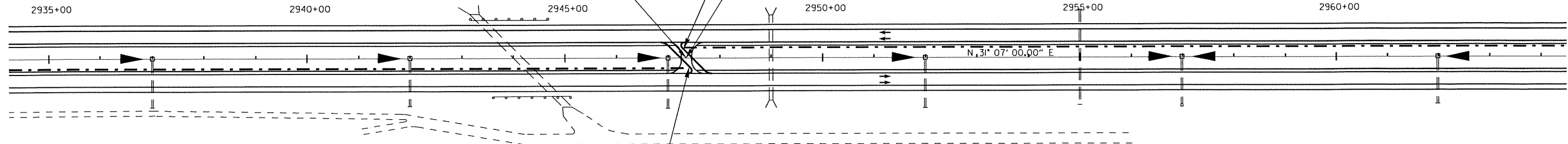
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012170	32
						PLAN SHEETS		

STA 2944+10 IN PLACE
DBL. 6' X 5' X 236' RC BOX CULVERT
45° RT. FWD. SKEW
RETAIN

STA 2947+35
CONSTRUCT MEDIAN CROSSING
SEE DETAIL SHEET

STA 2947+30
BEGIN WRSF
ON WB FORESLOPE

STA 2947+35
REMOVE EXIST.
MEDIAN CROSSOVER



STA 2947+40
END WRSF
ON EB FORESLOPE

STA 2949+00 IN PLACE
6' X 3' X 170' RC BOX CULVERT
RETAIN

STA 2955+00 IN PLACE
30\" X 184' RC PIPE CULVERT
RETAIN

STA 2937+00 IN PLACE
24\" X 92' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6\"
RETAIN

STA 2942+00 IN PLACE
24\" X 90' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 4'-6\"
RETAIN

STA 2947+00 IN PLACE
24\" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 4'-0\"
RETAIN

STA 2952+00 IN PLACE
24\" X 94' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 5'-0\"
RETAIN

STA 2957+00 IN PLACE
24\" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6\"
RETAIN

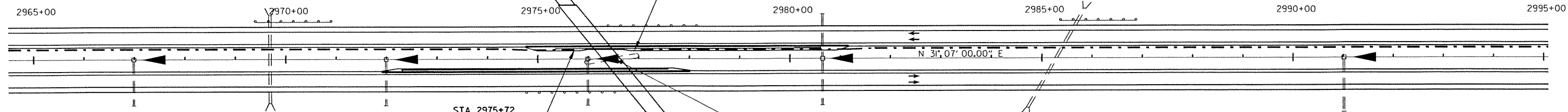
STA 2962+00 IN PLACE
24\" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6\"
RETAIN

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 2972+33 - STA. 2977+33 (RT. SHLDR)	450	I	I
STA. 2975+59 - STA. 2980+59 (LT. SHLDR)	450	I	I

STA 2969+69 IN PLACE
5' X 4' X 199' RC BOX CULVERT
RETAIN

STA 2976+92
BEGIN WRSF
ON WB FORESLOPE

STA 2985+27 IN PLACE
5' X 3' X 199' RC BOX CULVERT
30° LT. FWD. SKEW
WITH TYPE K DROP INLET IN MED.
H=1'-8\"
RETAIN



STA 2975+72
END WRSF
ON WB FORESLOPE

STA 2976+45 IN PLACE
(2) IMPACT ATTENUATION BARRIERS
TYPE A - REMOVE

STA 2991+00 IN PLACE
24\" X 100' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6\"
RETAIN

STA 2967+00 IN PLACE
24\" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6\"
RETAIN

STA 2972+00 IN PLACE
24\" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6\"
RETAIN

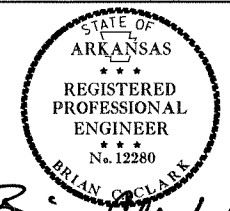
STA 2976+00 IN PLACE
24\" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6\"
RETAIN

STA 2980+65 IN PLACE
30\" X 180' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 4'-6\"
RETAIN

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

PLAN SHEETS
STA. 2935+00 - STA. 2995+00

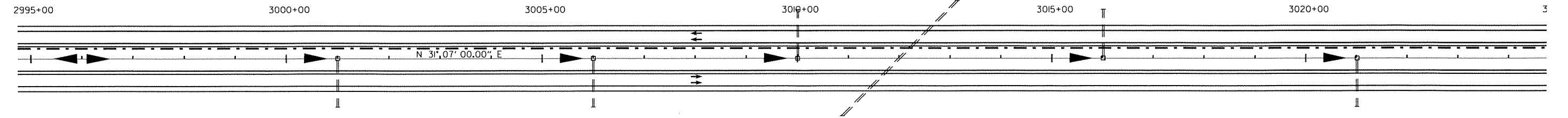
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
							JOB NO. 012170	33	48

PLAN SHEETS



STA 3001+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3006+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

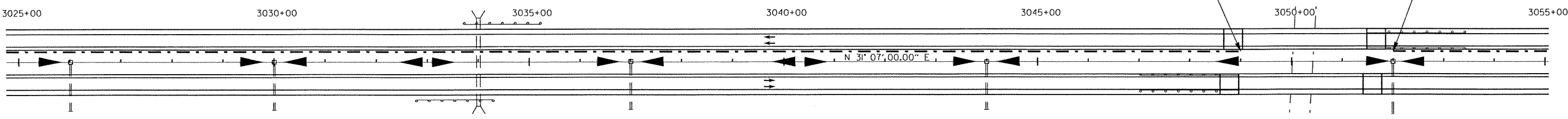
STA 3010+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3012+40 IN PLACE
42" X 320' RC PIPE CULVERT
45° LT. FWD. SKEW
RETAIN

STA 3016+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3021+00 IN PLACE
24" X 92' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 6'-6"
RETAIN

NOTE:
SEE DETAIL OF WIRE ROPE
SAFETY FENCE AT EXISTING
BRIDGE ENDS FOR ADDITIONAL
INFORMATION.



STA 3026+00 IN PLACE
24" X 92' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 6'-0"
RETAIN

STA 3030+00 IN PLACE
24" X 90' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 4'-6"
RETAIN

STA 3034+00 IN PLACE
6' X 6' X 172' RC BOX CULVERT
RETAIN

STA 3037+00 IN PLACE
24" X 90' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 4'-6"
RETAIN

STA 3044+00 IN PLACE
24" X 90' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN

STA 3049+00
END WRSF
ON WB FORESLOPE
BEGIN EXCEPTION

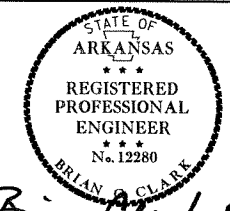
STA 3052+00
BEGIN WRSF
ON WB FORESLOPE
END EXCEPTION

STA 3052+00 IN PLACE
18" X 132' RC PIPE OUTLET
WITH TYPE H 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.

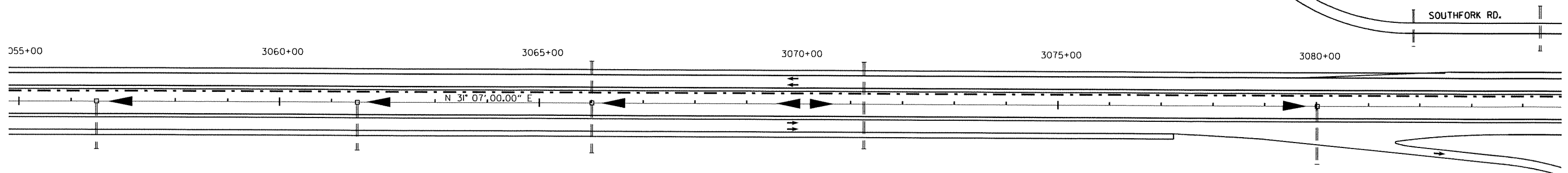
PLAN SHEETS
STA. 2995+00 - STA. 3055+00

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2/22/13

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		34	48
				JOB NO.	012170			
PLAN SHEETS								



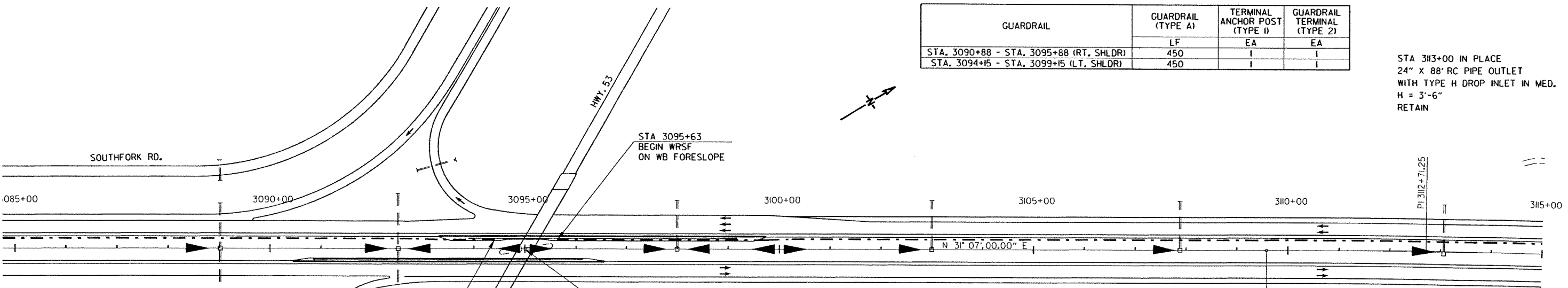
STA 3056+50 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3061+50 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3066+00 IN PLACE
30" X 176' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 4'-6"
RETAIN

STA 3071+25 IN PLACE
24" X 166' RC PIPE CULVERT
RETAIN

STA 3080+00 IN PLACE
24" X 108' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN



GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE D)	GUARDRAIL TERMINAL (TYPE 2)
STA. 3090+88 - STA. 3095+88 (RT. SHLDR)	LF	EA	EA
STA. 3094+15 - STA. 3099+15 (LT. SHLDR)	450	I	I
	450	I	I

STA 3113+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3089+00 IN PLACE
42" X 188' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 7'-0"
RETAIN

STA 3094+40
END WRSF
ON WB FORESLOPE

STA 3092+50 IN PLACE
24" X 104' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN

STA 3098+00 IN PLACE
24" X 92' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 4'-6"
RETAIN

STA 3103+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3107+88 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

P.I. = 3112+71.25
Δ = 1°34'00.00" RT.
D = 0°15'00.00"
T = 313.35'
L = 626.67'
R = 22918.32
N = 54227.80
E = 37450.99

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

PLAN SHEETS
STA. 3055+00 - STA. 3115+00

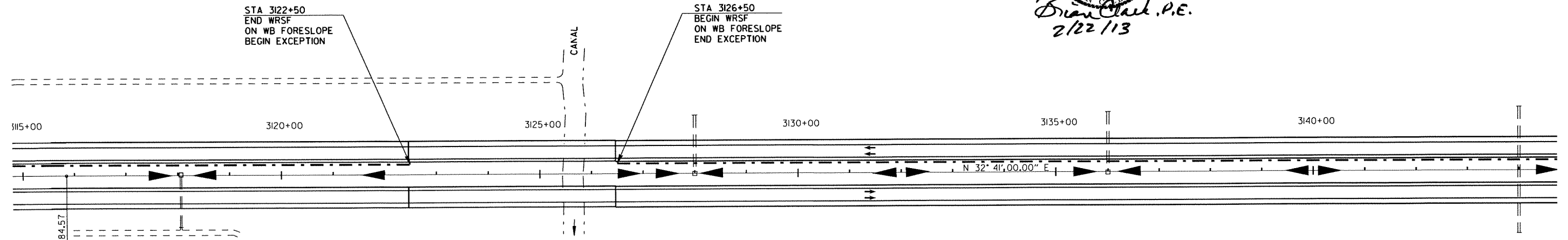
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2/22/13

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. 012170							35	48

PLAN SHEETS



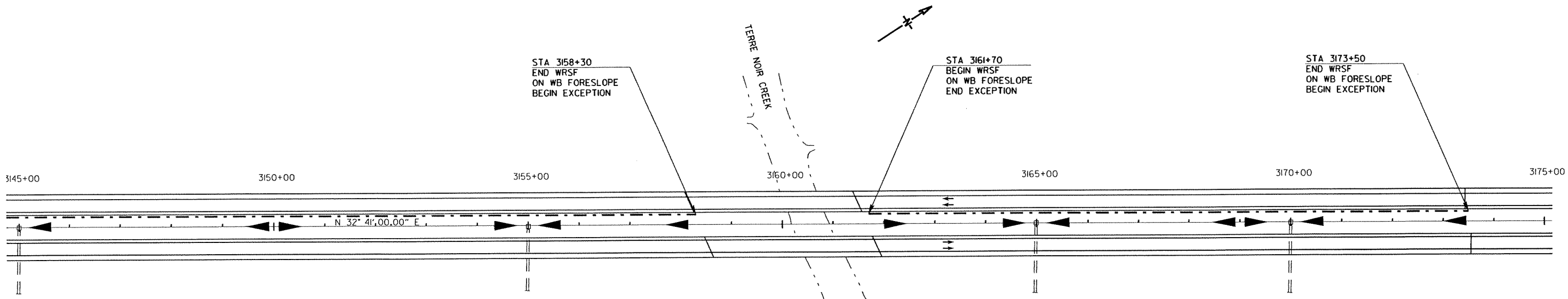
STA 3118+00 IN PLACE
24" X 96' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 6'-3"
RETAIN

STA 3128+00 IN PLACE
18" X 110' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 3136+00 IN PLACE
18" X 112' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 3144+00 IN PLACE
36" X 232' RC PIPE CULVERT
RETAIN

NOTE:
SEE DETAIL OF WIRE ROPE
SAFETY FENCE AT EXISTING
BRIDGE ENDS FOR ADDITIONAL
INFORMATION.



STA 3145+00 IN PLACE
18" X 118' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 3155+00 IN PLACE
18" X 114' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 3165+00 IN PLACE
18" X 120' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-2"
RETAIN

STA 3170+00 IN PLACE
18" X 120' CM PIPE OUTLET
WITH TYPE H 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.

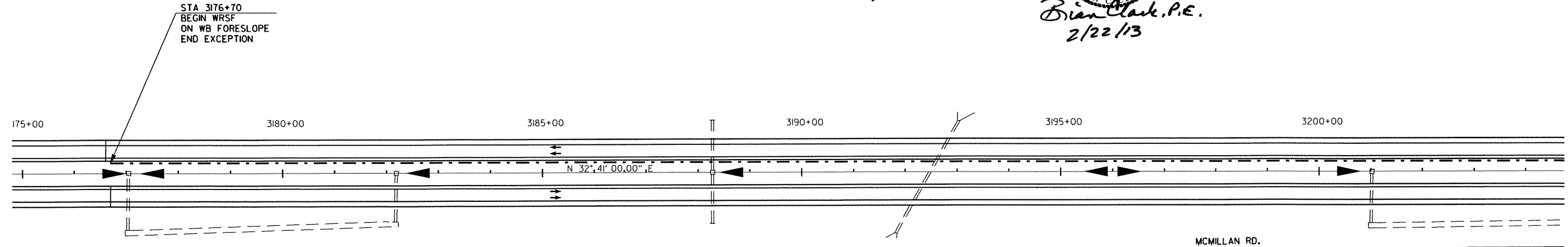
PLAN SHEETS
STA. 3115+00 - STA. 3175+00

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2/22/13

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. 012170	36	48
PLAN SHEETS									



STA 3176+70
BEGIN WRSF
ON WB FORESLOPE
END EXCEPTION

STA 3177+00 IN PLACE
24" X 100' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

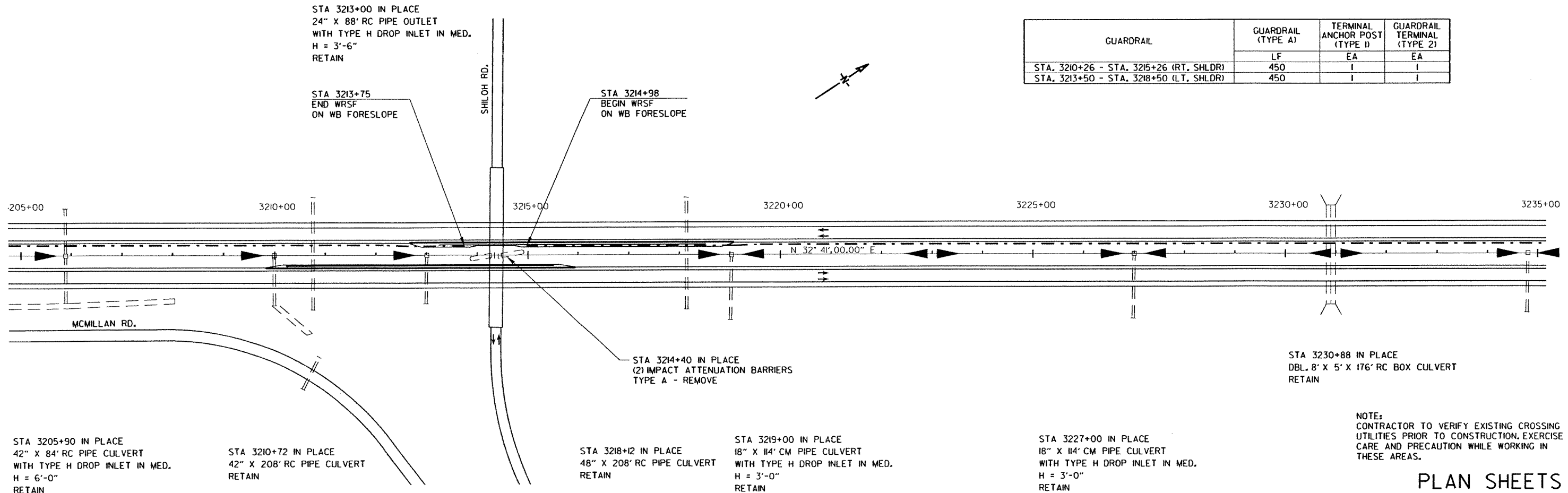
STA 3182+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3188+28 IN PLACE
24" X 180' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN

STA 3192+48 IN PLACE
5' X 5' X 236' RC BOX CULVERT
30° LT. FWD. SKEW
RETAIN

STA 3201+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

NOTE:
SEE DETAIL OF WIRE ROPE
SAFETY FENCE AT EXISTING
BRIDGE ENDS FOR ADDITIONAL
INFORMATION.



STA 3213+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3213+75
END WRSF
ON WB FORESLOPE

STA 3214+98
BEGIN WRSF
ON WB FORESLOPE

STA 3214+40 IN PLACE
(2) IMPACT ATTENUATION BARRIERS
TYPE A - REMOVE

STA 3218+12 IN PLACE
48" X 208' RC PIPE CULVERT
RETAIN

STA 3219+00 IN PLACE
18" X 114' CM PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 3227+00 IN PLACE
18" X 114' CM PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 3230+88 IN PLACE
DBL. 8' X 5' X 176' RC BOX CULVERT
RETAIN

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

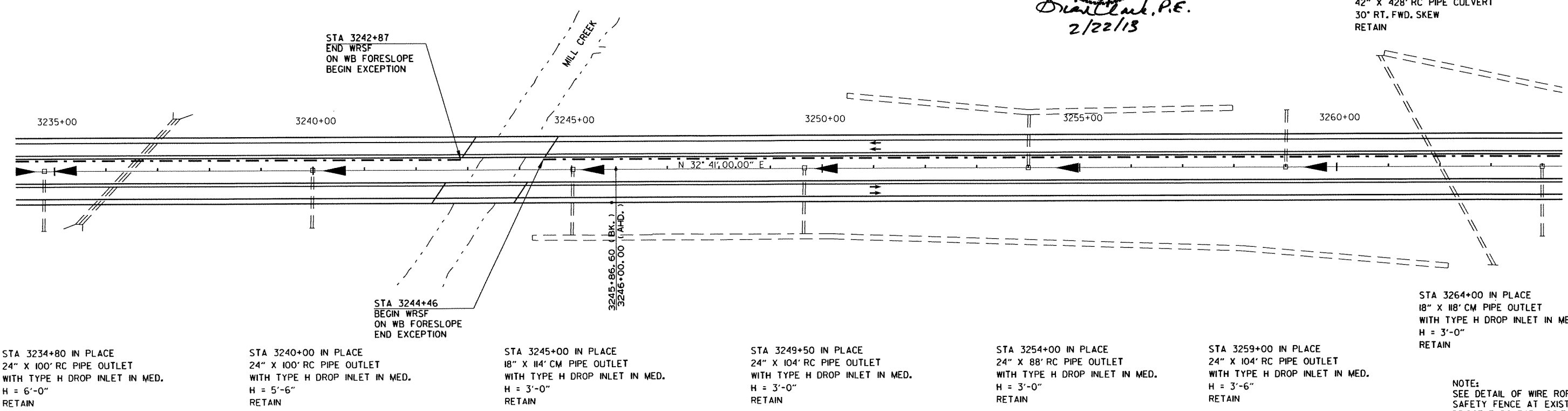
GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE II)	GUARDRAIL TERMINAL (TYPE 2)
	LF	EA	EA
STA. 3210+26 - STA. 3215+26 (RT. SHLDR)	450	I	I
STA. 3213+50 - STA. 3218+50 (LT. SHLDR)	450	I	I

PLAN SHEETS
STA. 3175+00 - STA. 3235+00

STA 3236+40 IN PLACE
 DBL. 6' X 4' X 260' RC BOX CULVERT
 45° LT. FWD. SKEW
 RETAIN

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 12280
 BRIAN CLARK
 Brian Clark, P.E.
 2/22/13

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	DIST. NO.	STATE	FED. AID PROJ. NO.	NO.	SHEETS
				6	ARK.	012170	37	48
				JOB NO. 012170 37 48				
PLAN SHEETS								



STA 3234+80 IN PLACE
 24" X 100' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 6'-0"
 RETAIN

STA 3240+00 IN PLACE
 24" X 100' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 5'-6"
 RETAIN

STA 3245+00 IN PLACE
 18" X 114' CM PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-0"
 RETAIN

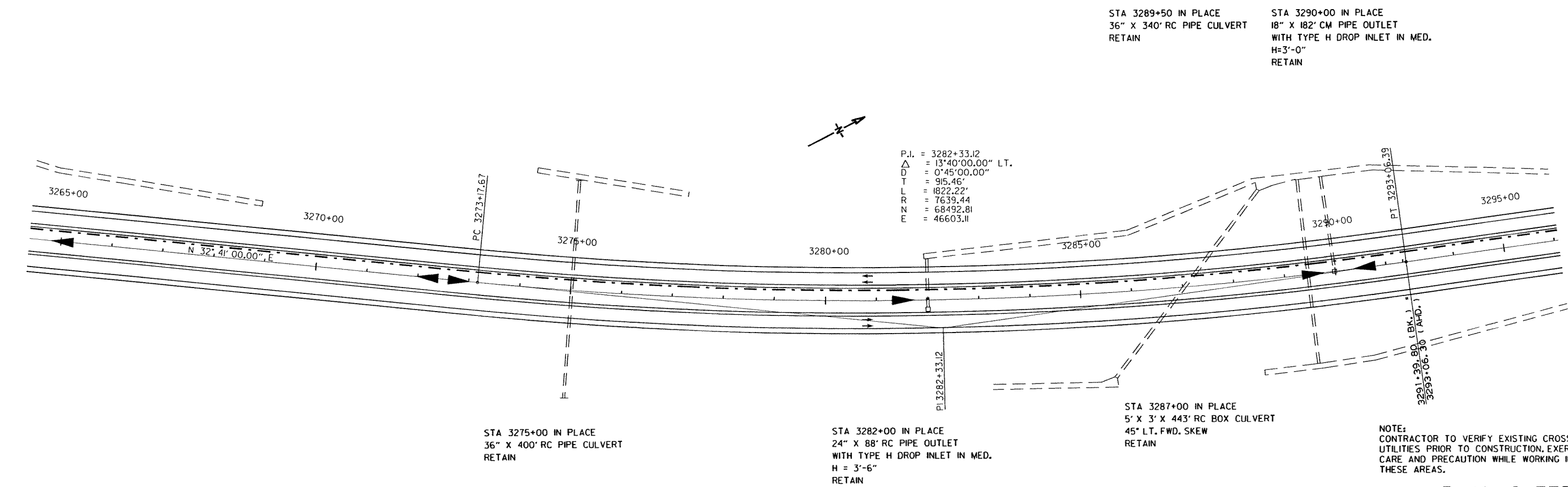
STA 3249+50 IN PLACE
 24" X 104' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-0"
 RETAIN

STA 3254+00 IN PLACE
 24" X 88' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-0"
 RETAIN

STA 3259+00 IN PLACE
 24" X 104' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 3264+00 IN PLACE
 18" X 118' CM PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-0"
 RETAIN

NOTE:
 SEE DETAIL OF WIRE ROPE
 SAFETY FENCE AT EXISTING
 BRIDGE ENDS FOR ADDITIONAL
 INFORMATION.



P.I. = 3282+33.12
 Δ = 13°40'00.00" LT.
 D = 0°45'00.00"
 T = 95.46'
 L = 1822.22'
 R = 7639.44
 N = 68492.81
 E = 46603.11

STA 3275+00 IN PLACE
 36" X 400' RC PIPE CULVERT
 RETAIN

STA 3282+00 IN PLACE
 24" X 88' RC PIPE OUTLET
 WITH TYPE H DROP INLET IN MED.
 H = 3'-6"
 RETAIN

STA 3287+00 IN PLACE
 5' X 3' X 443' RC BOX CULVERT
 45° LT. FWD. SKEW
 RETAIN

STA 3289+50 IN PLACE
 36" X 340' RC PIPE CULVERT
 RETAIN

STA 3290+00 IN PLACE
 18" X 182' CM PIPE OUTLET
 WITH TYPE H 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.

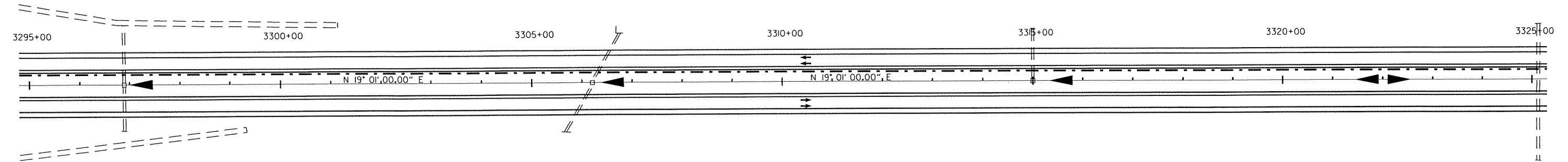
PLAN SHEETS
 STA. 3235+00 - STA. 3295+00

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2/22/13

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SPEC. NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012170	38	48	
PLAN SHEETS								

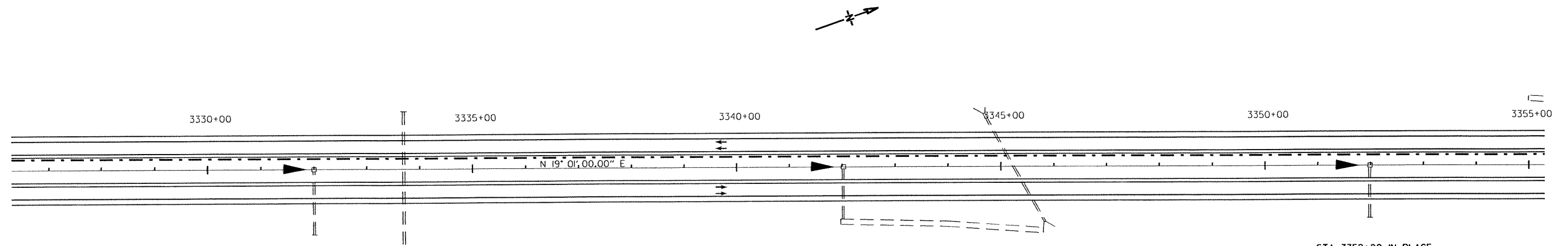


STA 3296+90 IN PLACE
24" X 184' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 6'-6"
RETAIN

STA 3306+25 IN PLACE
36" X 204' RC PIPE CULVERT
30° LT. FWD. SKEW
WITH TYPE H DROP INLET IN MED.
H = 5'-0"
RETAIN

STA 3315+00 IN PLACE
24" X 100' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3325+16 IN PLACE
24" X 260' RC PIPE CULVERT
RETAIN



STA 3332+00 IN PLACE
24" X 96' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 6'-0"
RETAIN

STA 3333+70 IN PLACE
24" X 244' RC PIPE CULVERT
RETAIN

STA 3342+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3345+30 IN PLACE
4' X 4' X 229' RC BOX CULVERT
30° RT. FWD. SKEW
RETAIN

STA 3352+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

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

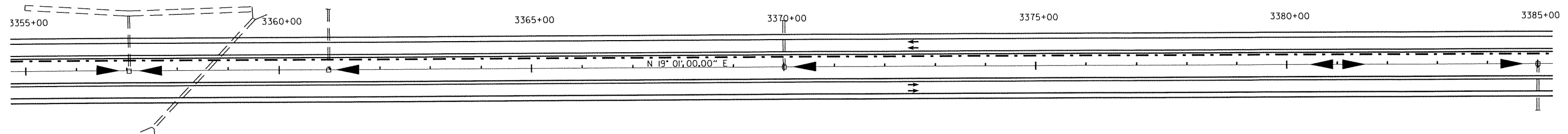
PLAN SHEETS
STA. 3295+00 - STA. 3355+00

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Brian Clark, P.E.
2/22/13

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	DIST. NO.	STATE	FED. AID PROJ. NO.	NO.	SHEETS
				6	ARK.			
				JOB NO.	012170	39	48	
PLAN SHEETS								



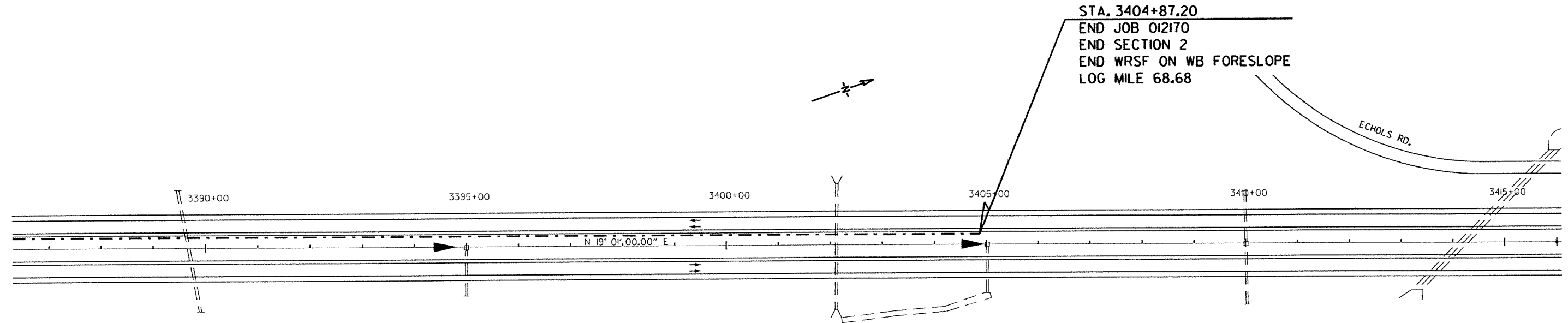
STA 3358+55 IN PLACE
6' X 4' X 283' RC BOX CULVERT
45° LT. FWD. SKEW
RETAIN

STA 3357+00 IN PLACE
24" X 100' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 5'-6"
RETAIN

STA 3361+00 IN PLACE
18" X 114' CM PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-0"
RETAIN

STA 3370+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3385+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN



STA. 3404+87.20
END JOB 012170
END SECTION 2
END WRSF ON WB FORESLOPE
LOG MILE 68.68

STA 3389+55 IN PLACE
36" X 228' RC PIPE CULVERT
10° RT. FWD. SKEW
RETAIN

STA 3395+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3402+00 IN PLACE
4' X 4' X 225' RC BOX CULVERT
RETAIN

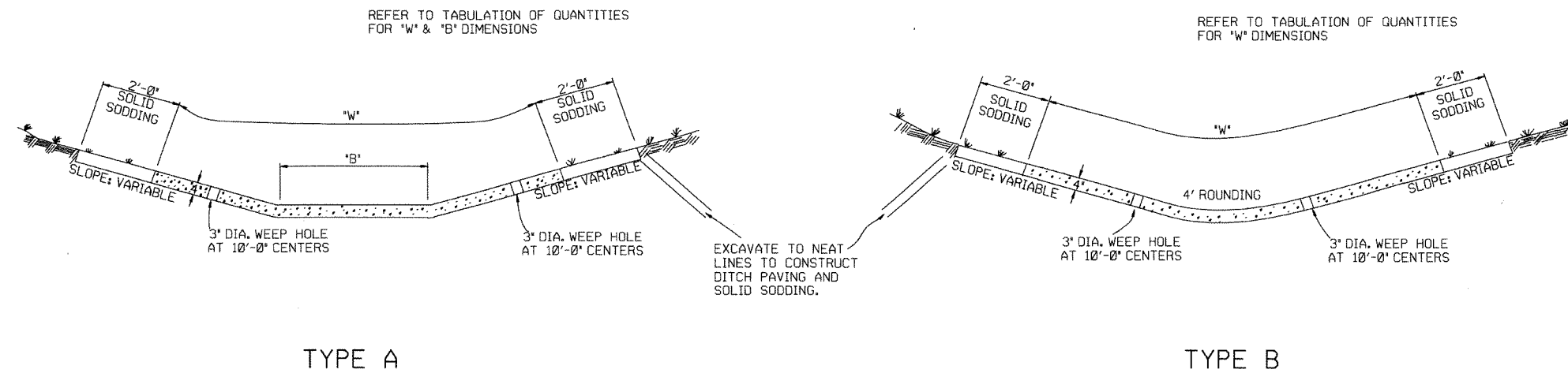
STA 3405+00 IN PLACE
24" X 88' RC PIPE OUTLET
WITH TYPE H DROP INLET IN MED.
H = 3'-6"
RETAIN

STA 3410+00 IN PLACE
24" X 208' RC PIPE CULVERT
WITH TYPE H DROP INLET IN MED.
H = 6'-6"
RETAIN

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

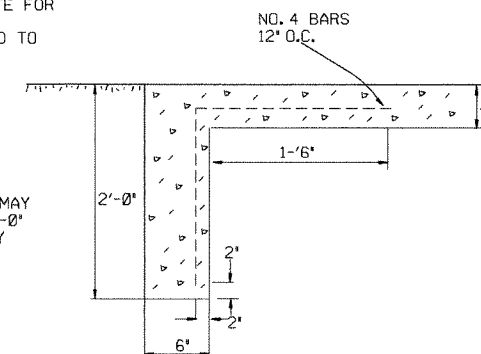
PLAN SHEETS
STA. 3355+00 - STA. 3415+00

2/27/2013 11:46:34 AM p:\100029928\cadd\pov\30PL\AHL14.dgn

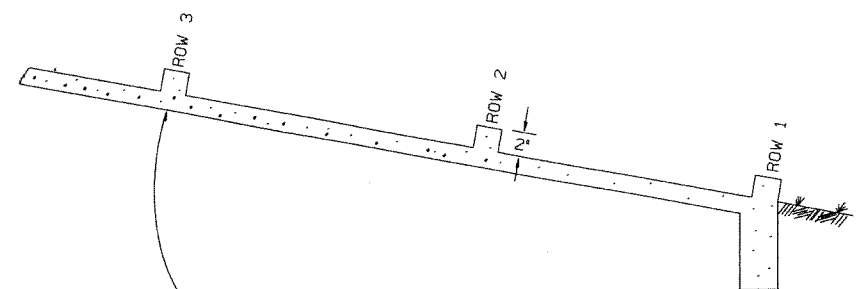


THE STEEL AND ADDITIONAL CONCRETE FOR THE WALLS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR 'CONCRETE DITCH PAVING.'

TOE WALL DEPTH MAY BE ALTERED TO 1'-0" WHEN DIRECTED BY THE ENGINEER IN ROCK EXCAVATION

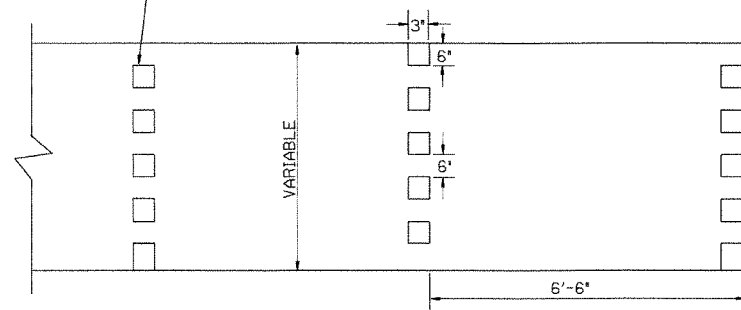


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



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 UNINCLUDED 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.

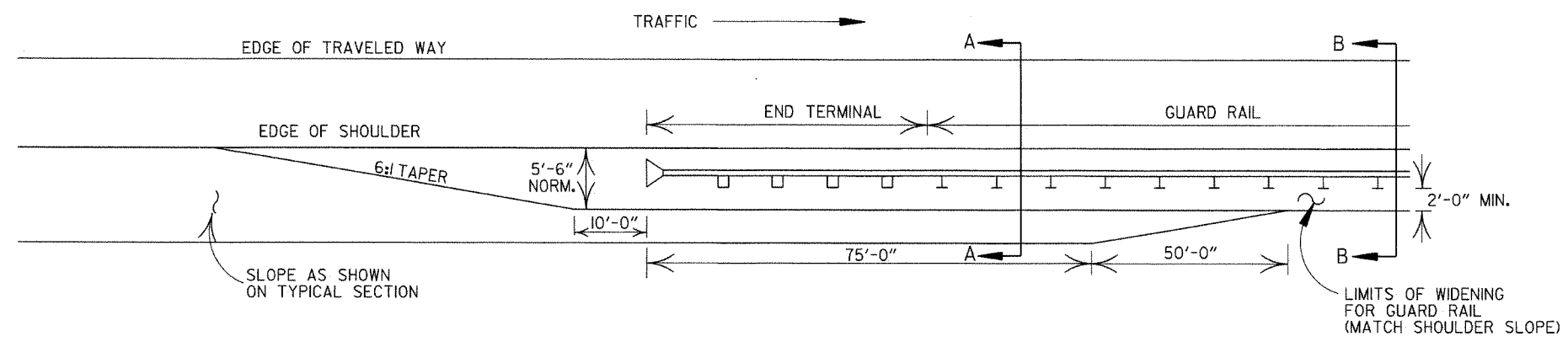
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILM'D
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-8	ELIMINATED MIN. ROWS OF ELEMENTS	11-30-89
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	508-11-1-84
11-1-84	ADDED EXCAVATION DETAILS	
10-2-72	TYPED A & B REVISED AND REDRAWN	508-10-2-72

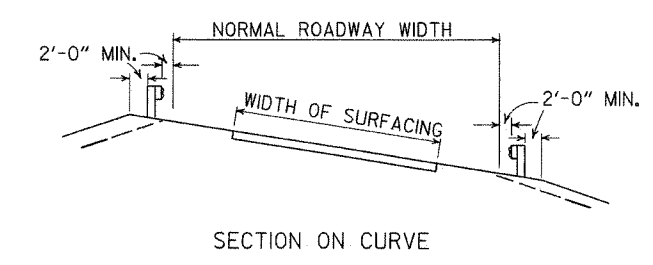
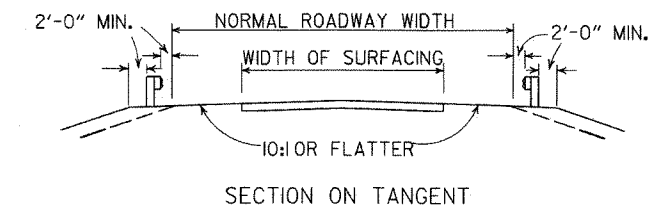
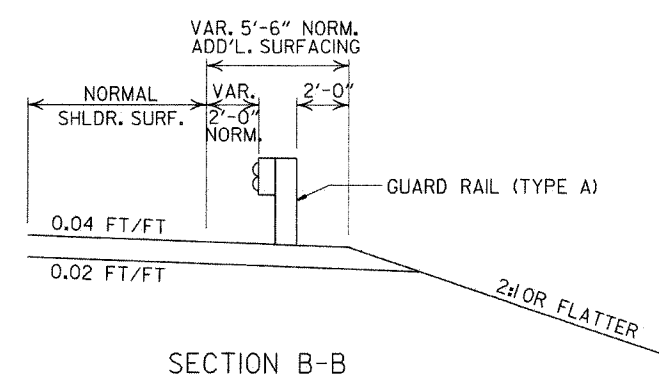
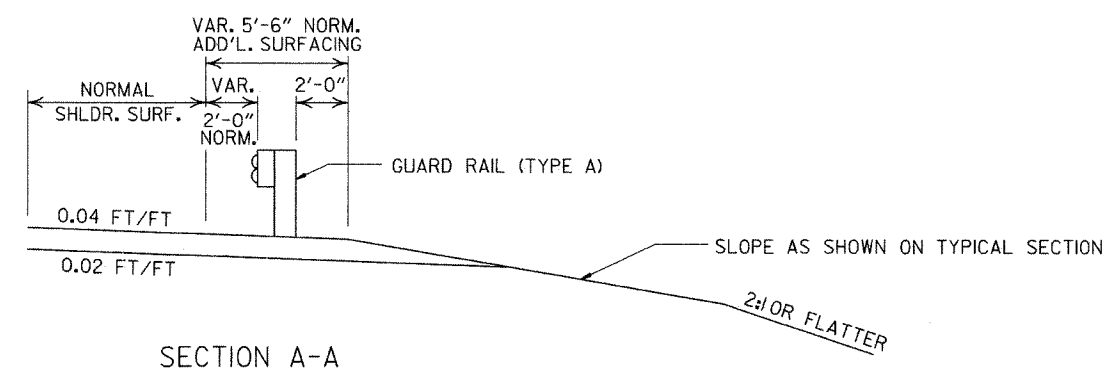
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

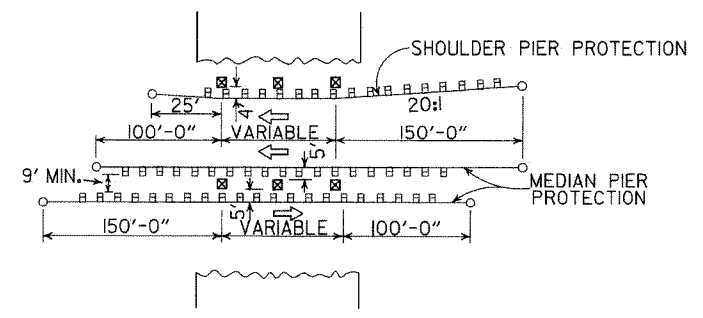


NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARD RAIL.



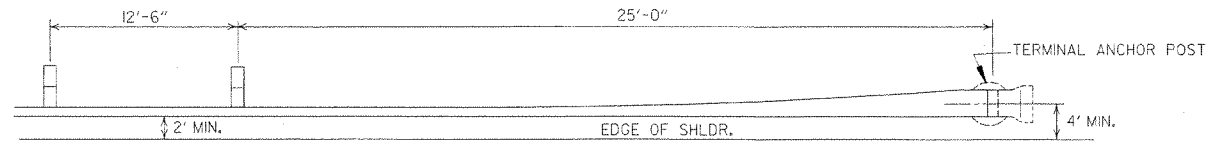
DETAILS OF WIDENING FOR GUARD RAIL

DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

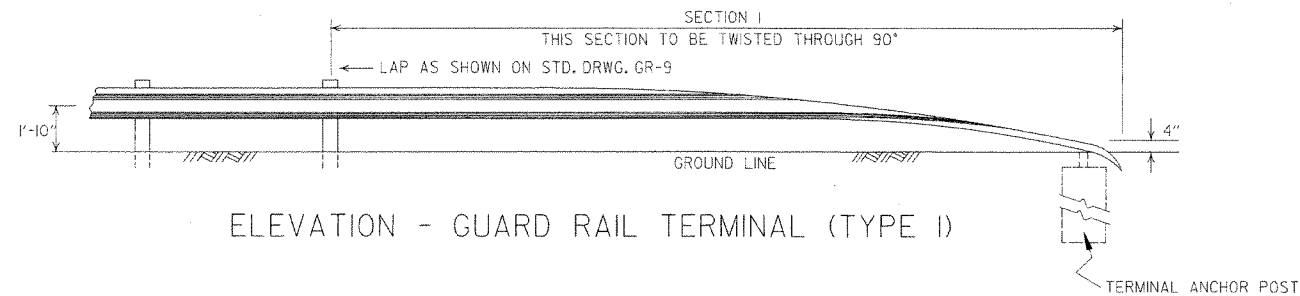


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

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

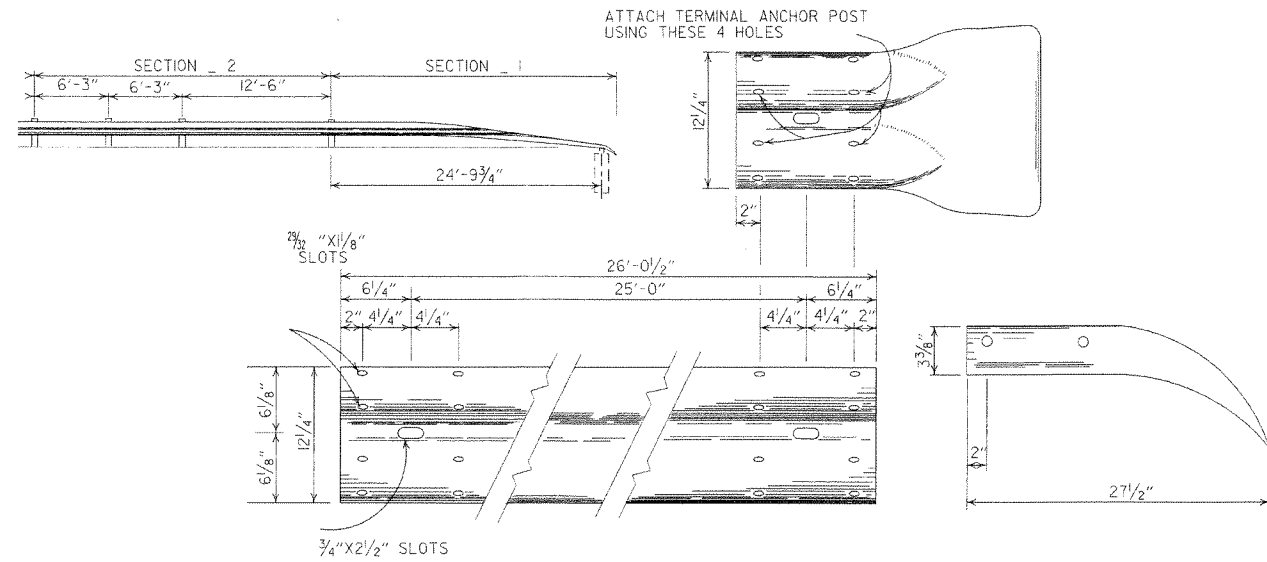


PLAN - GUARD RAIL TERMINAL (TYPE I)



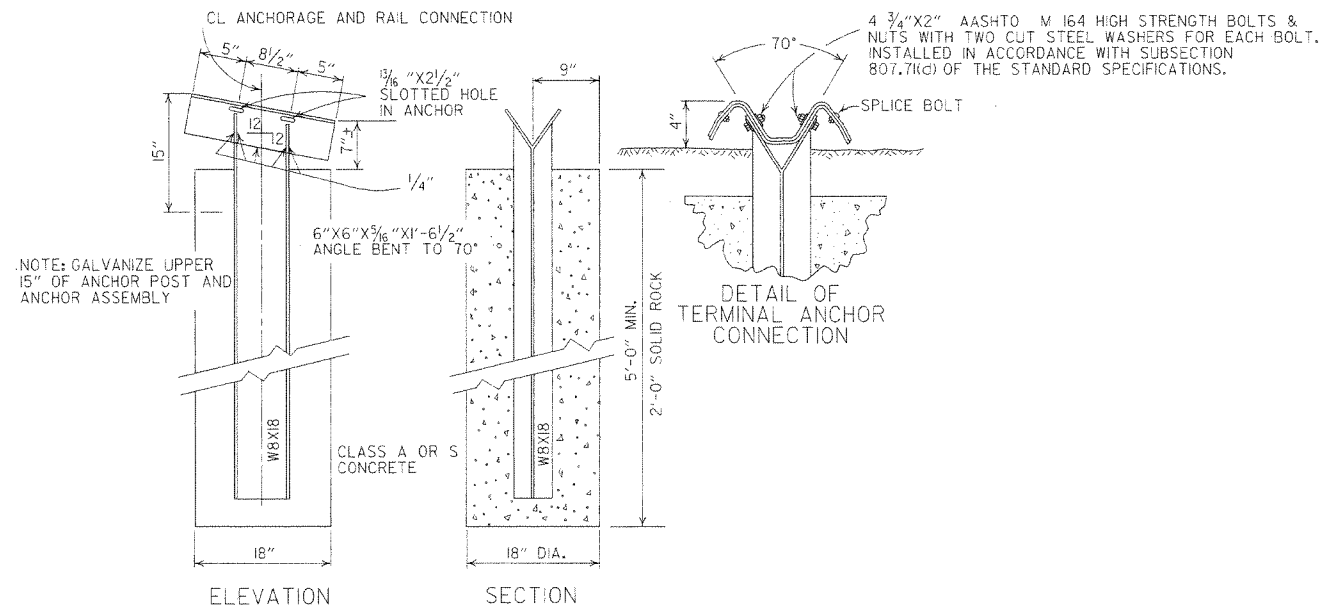
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

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



DETAIL OF TERMINAL ANCHOR POST (TYPE I)

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.

		ARKANSAS STATE HIGHWAY COMMISSION
		GUARD RAIL DETAILS
		STANDARD DRAWING GRT-1
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 3/8	27
42	51 1/8	51	31 1/8	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 3/8	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)(i).

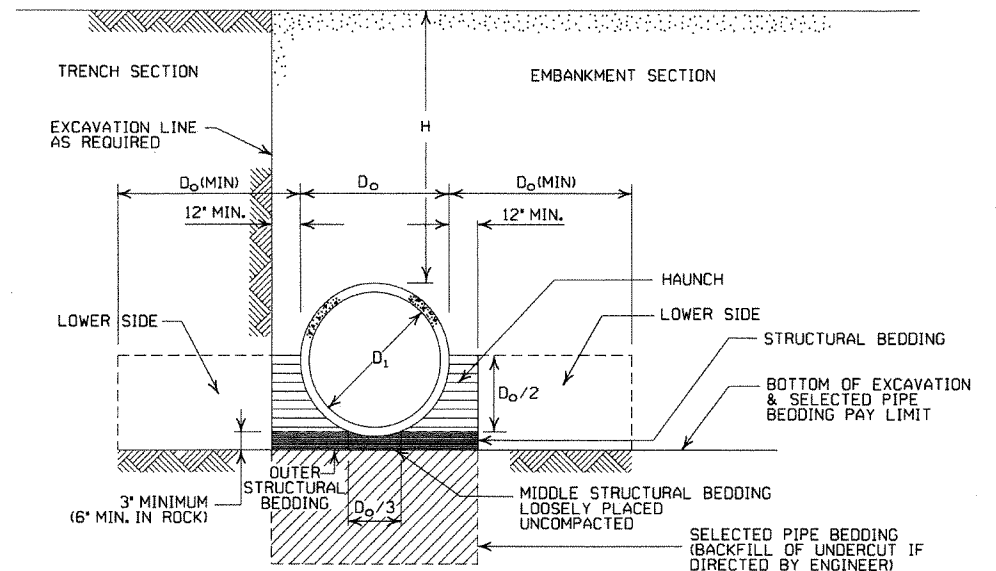
NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

- LEGEND -

- D₁ = NORMAL INSIDE DIAMETER OF PIPE
- D_o = 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.



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 (2003 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	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.

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	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	13	21
TYPE 3	10	16

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

DATE	REVISION	DATE FILMED
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


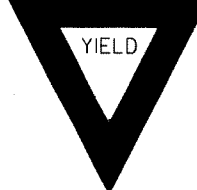

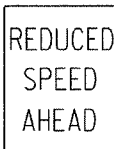


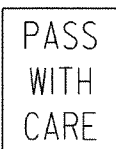


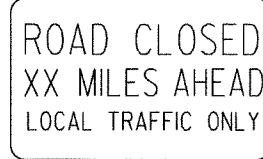
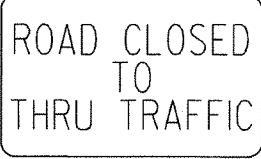

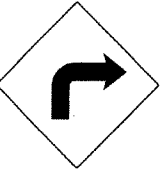
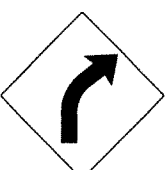




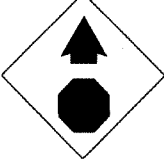
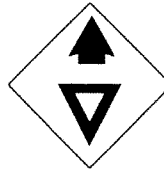
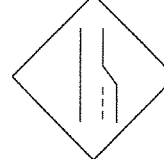



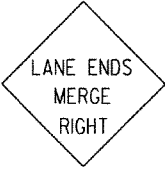


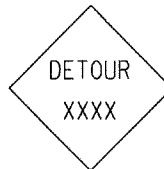





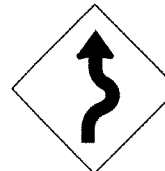

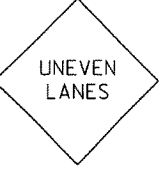
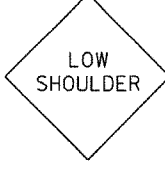
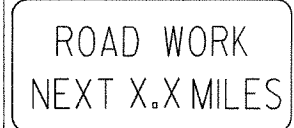
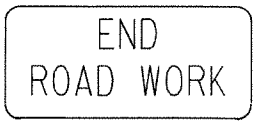
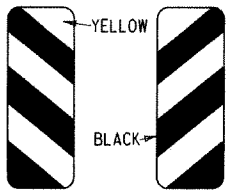


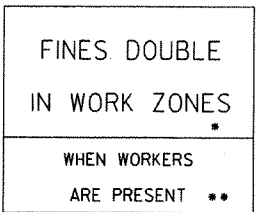
GENERAL NOTES:

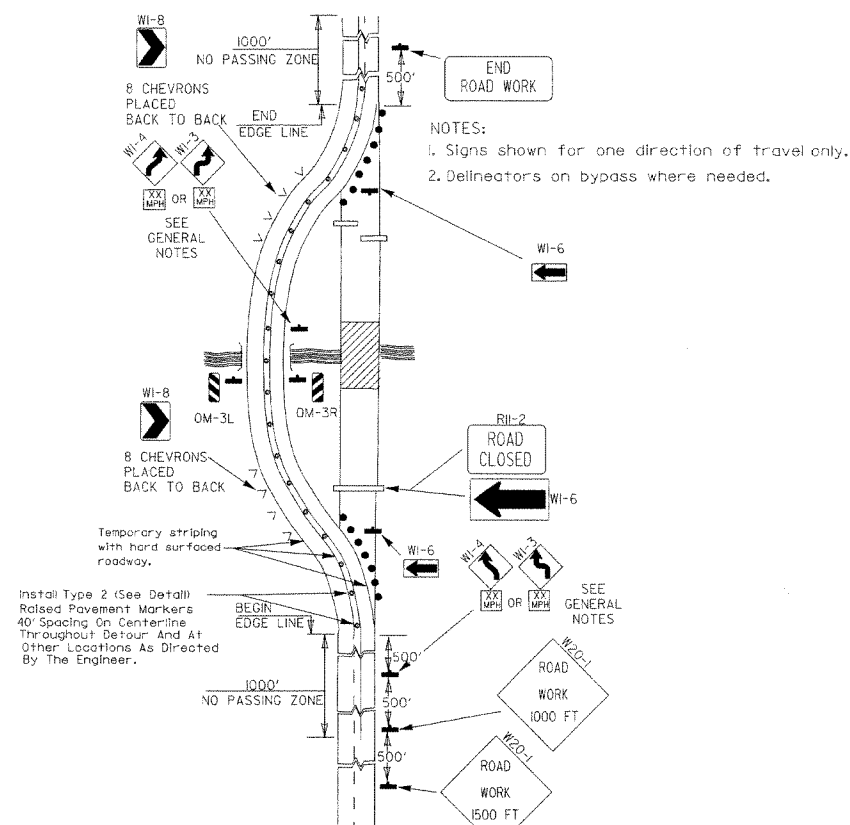
- ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START 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.

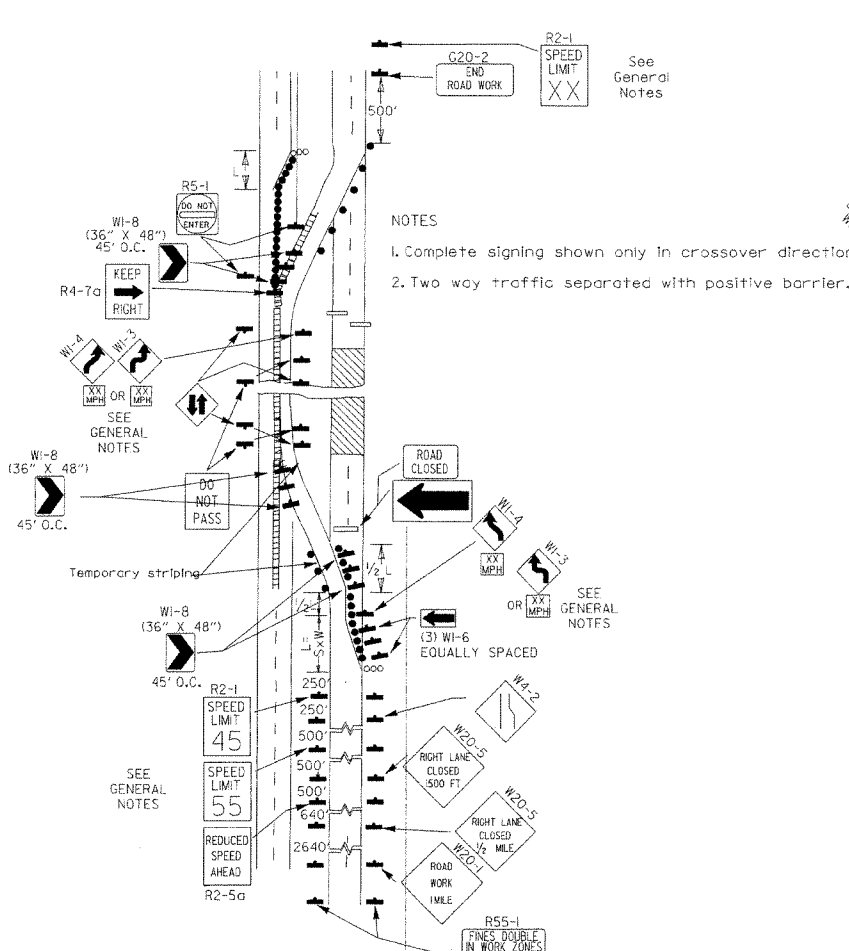
NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY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

12-15-81	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, MUTCO SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FILMED

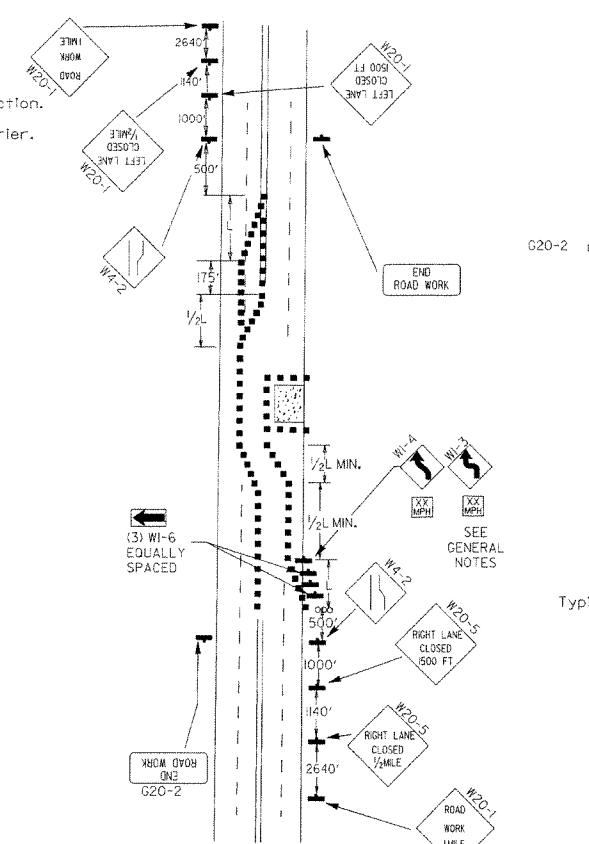
<p>RI-1</p>  <p>STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"</p>	<p>RI-2</p>  <p>STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"</p>	<p>R2-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5A</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5C</p>  <p>STD. 24"x30" EXPWY. 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>W20-4</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>WI-4b</p>  <p>STD. 48"x48"</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>WHEN WORKERS ARE PRESENT **</p> <p>* USE 6" C LETTERS ** USE 4" D LETTERS</p>



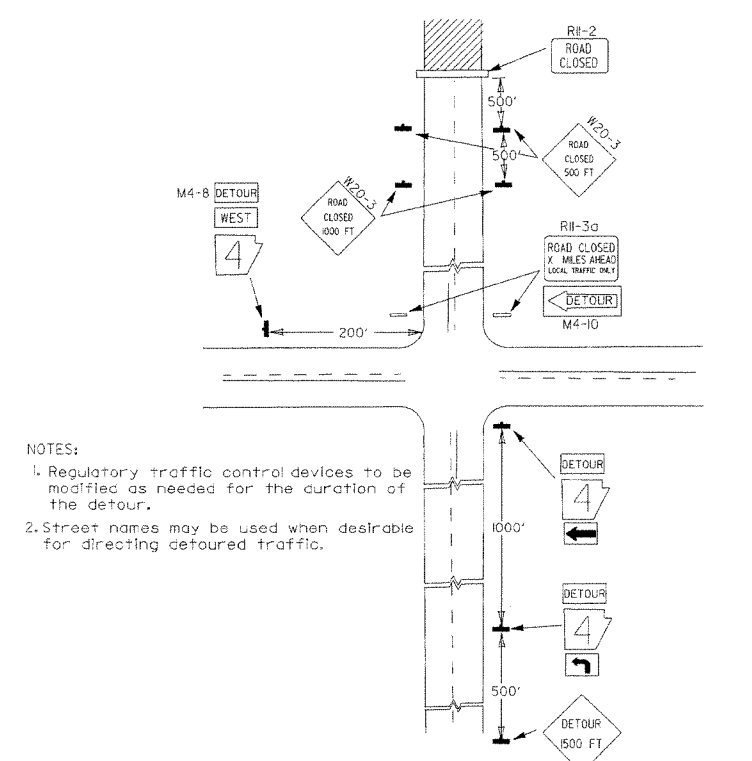
(A) Typical application of traffic control devices on a 2-lane highway where the entire roadway is closed and a bypass detour is provided.



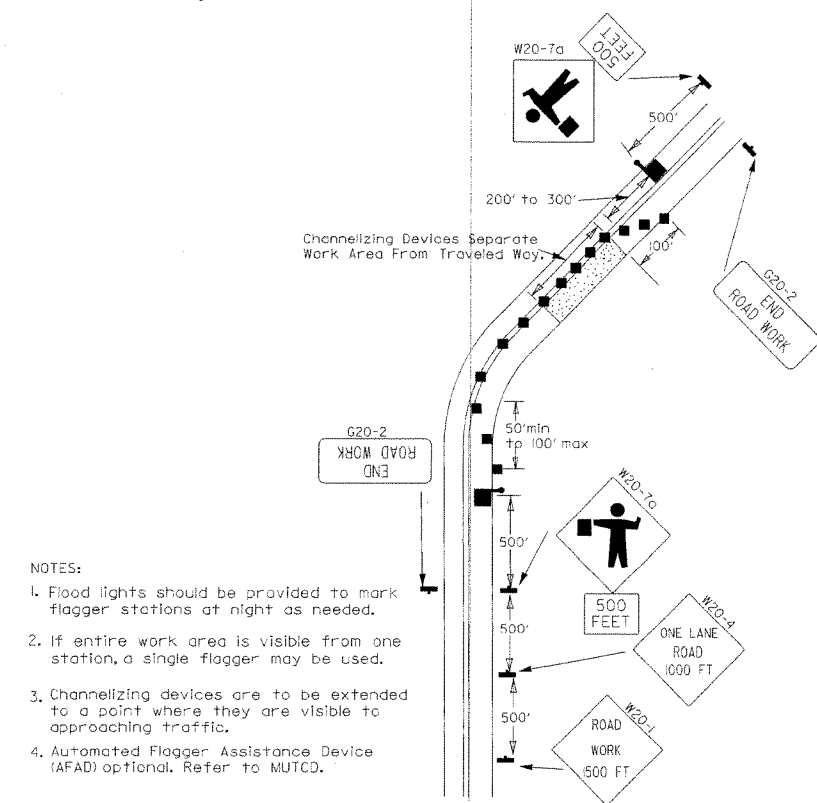
(B) Typical application - 4-lane divided roadway where one roadway is closed.



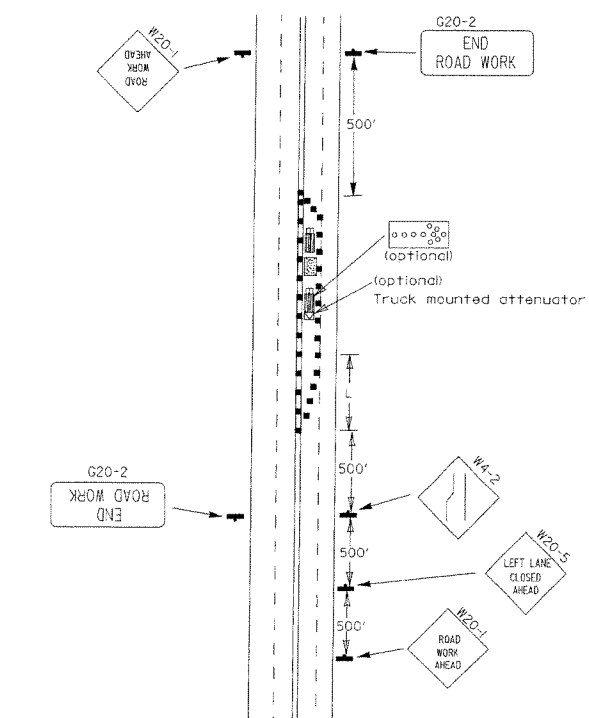
(C) Typical application - 4-lane undivided roadway where half of the roadway is closed.



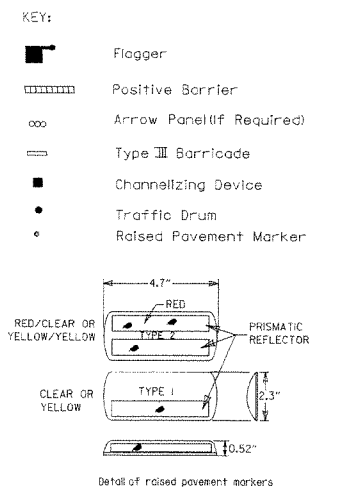
(D) Typical application - roadway closed beyond detour point.



(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.



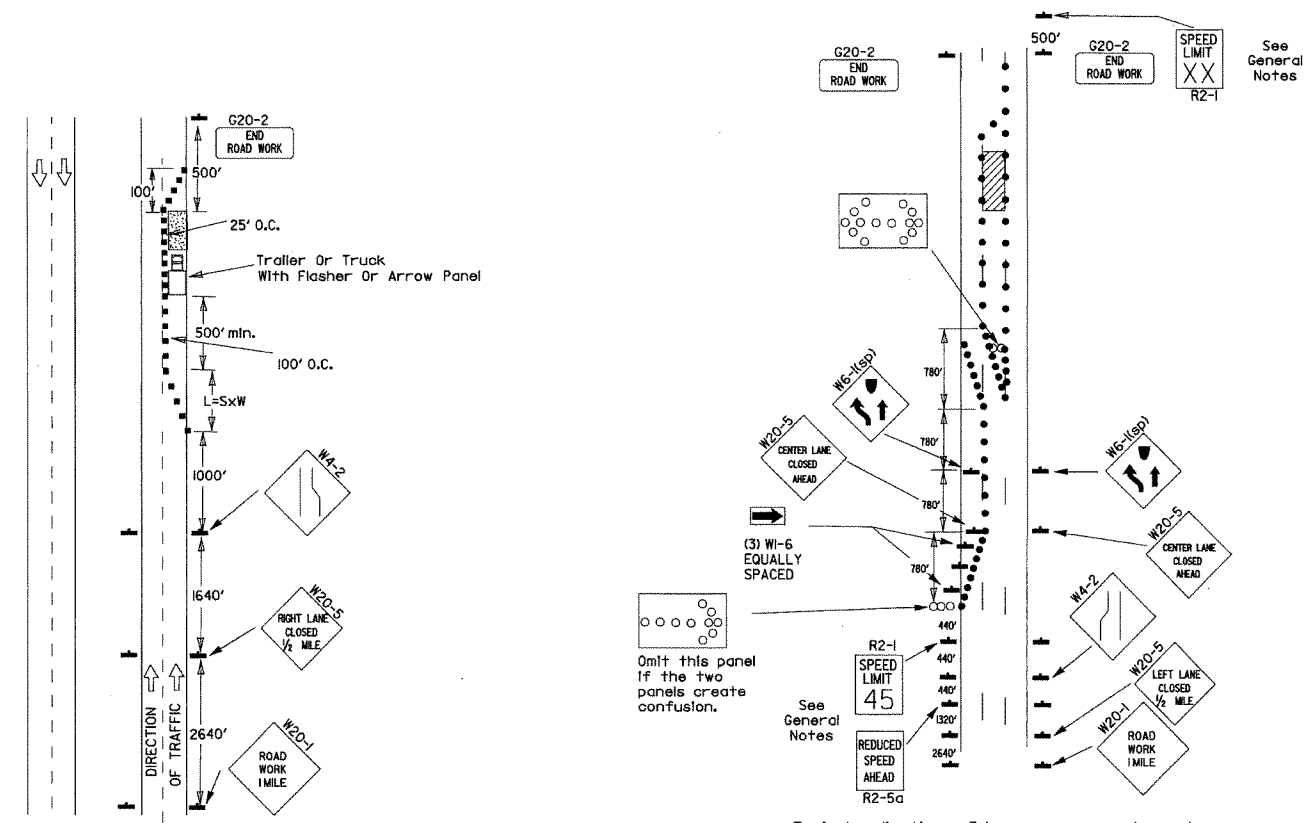
Typical advance warning sign placement

Taper formulae:
 $L = S \times W$ 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.

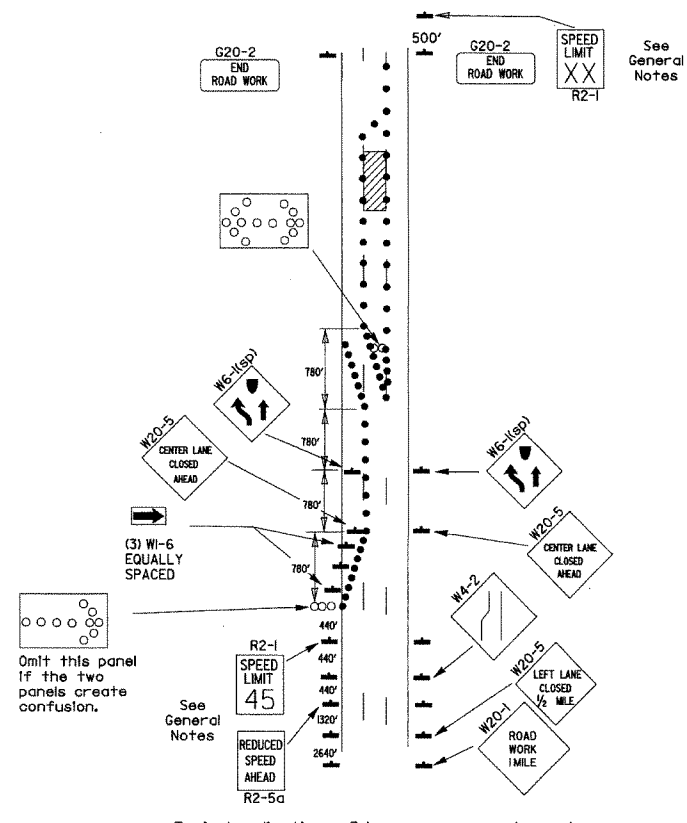
- GENERAL NOTES:
- Advisory speed posted on W1-3 or W1-4 curve warning signs to be determined at site. Use W1-4 when speed is greater than 30mph and W1-3 when 30mph or less.
 - When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(45) shall be omitted and the R2-5A shall be installed at that location. Additional R2-1(45) speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1(45) 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 R2-1(45) shall be omitted. Additional R2-1(55) speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1(55) 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
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 (a) 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	

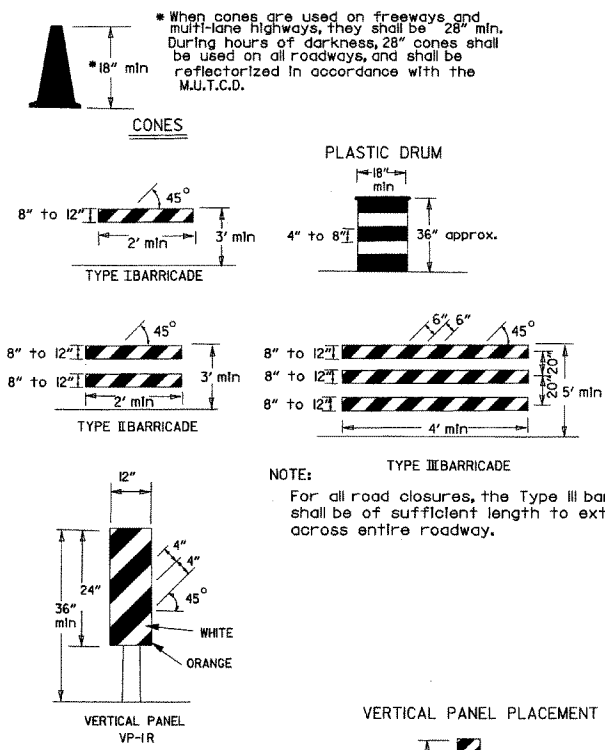
Channelizing devices



(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.

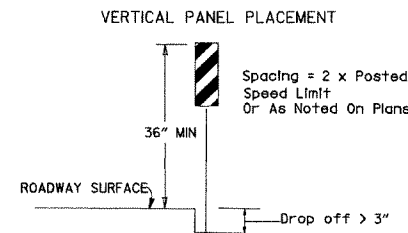
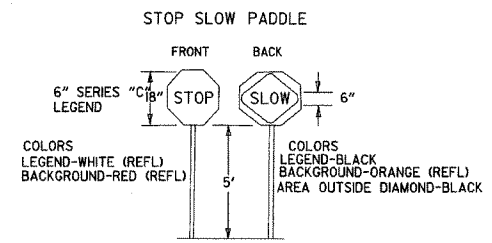
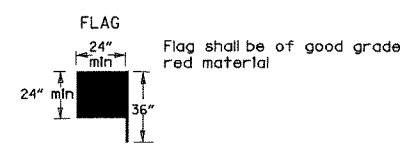


TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	WB-11
1" to 3"	Edge of shoulder	WB-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-1 and 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.

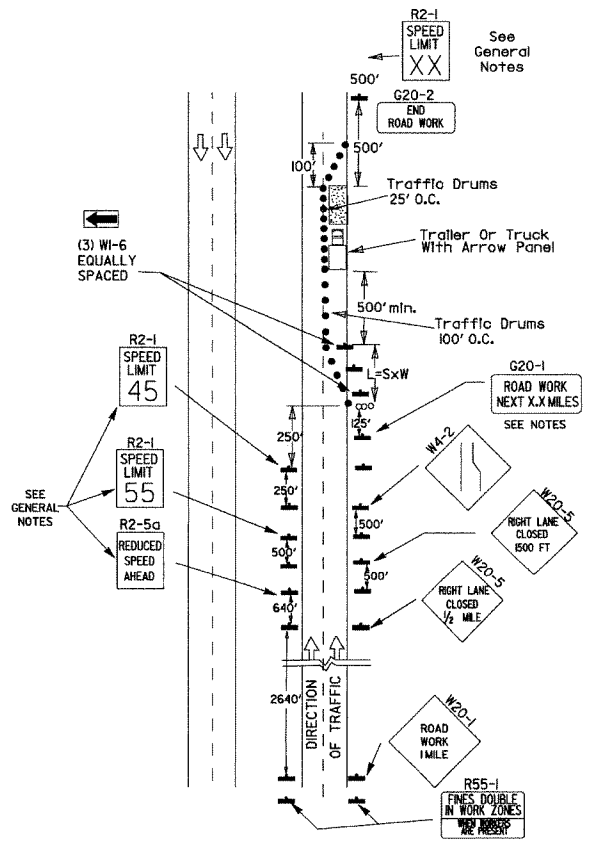
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.



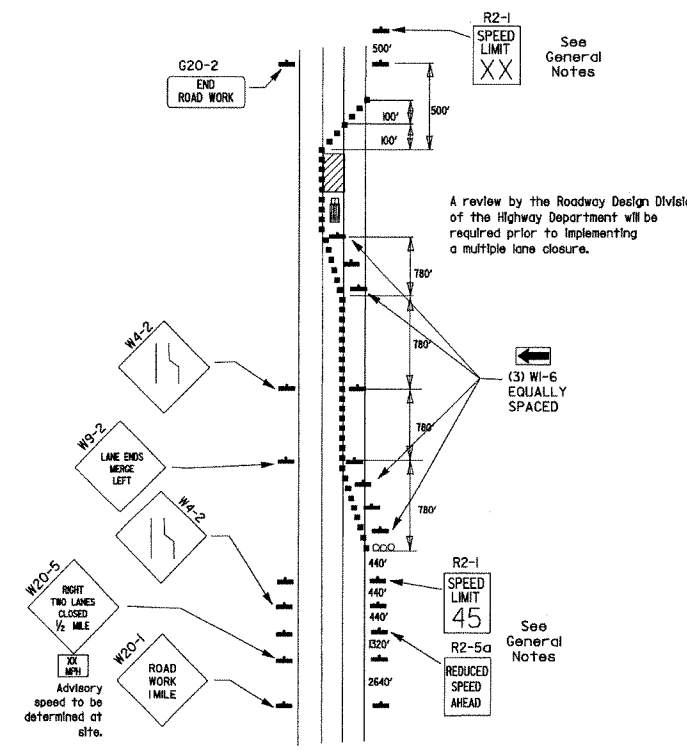
- KEY:
- Arrow Panel (if Required)
 - Channelizing Device
 - Traffic drum

GENERAL NOTES:

- A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
- 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 R2-1(45) speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1(XX) 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 R2-1(65) shall be omitted. Additional R2-1(55) speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1(XX) 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.
- 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.
- Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual for Assessing Safety Hardware (MASH).
- 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.

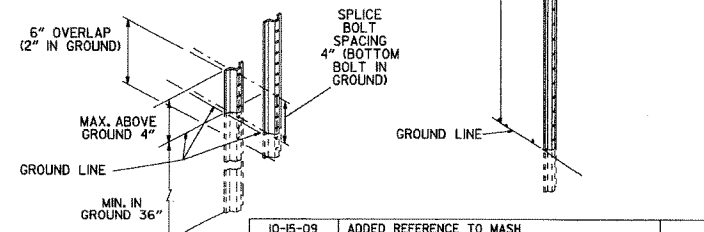


(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.



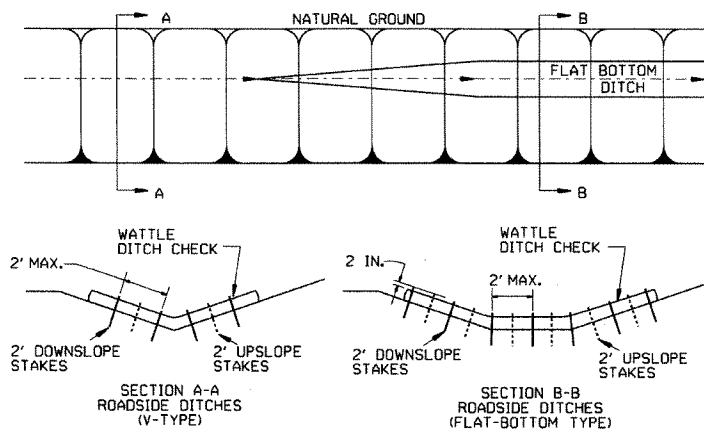
(D) Typical application - closing multiple lanes of a multilane highway.

- NOTES:
- USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2)
 - 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.

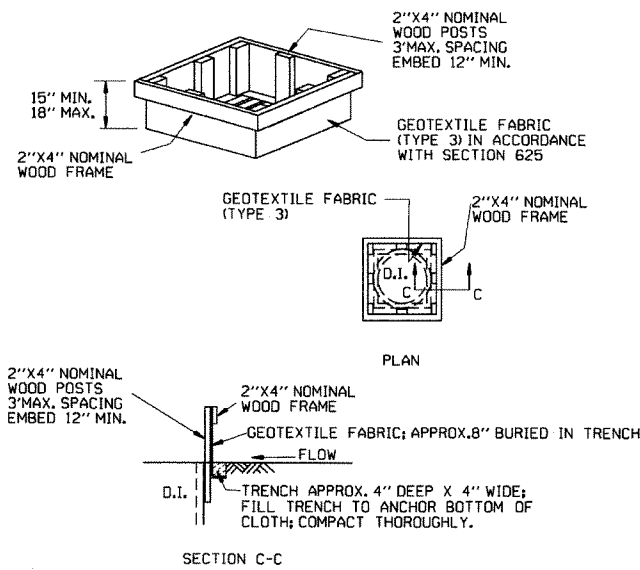


DATE	REVISION	FILMED
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (ISP) TO W6-1 & REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-1	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

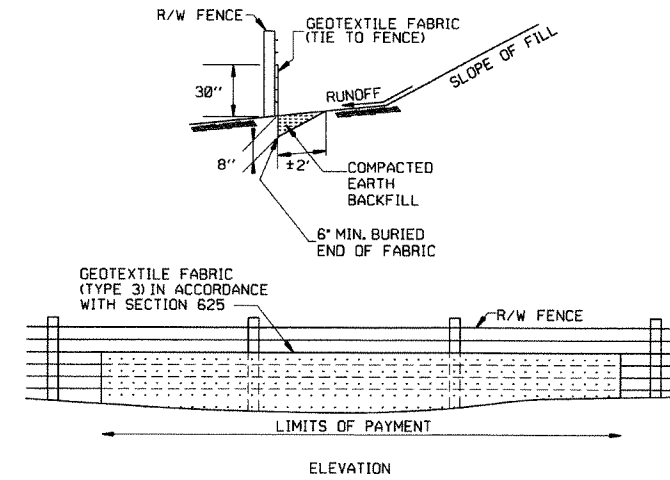
GENERAL NOTES
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



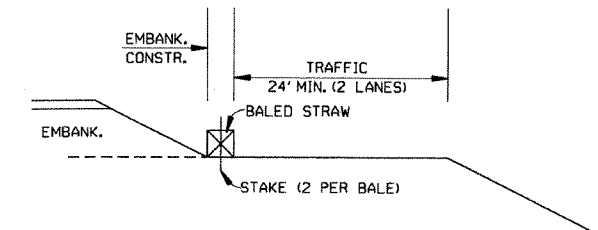
DROP INLET SILT FENCE (E-7)



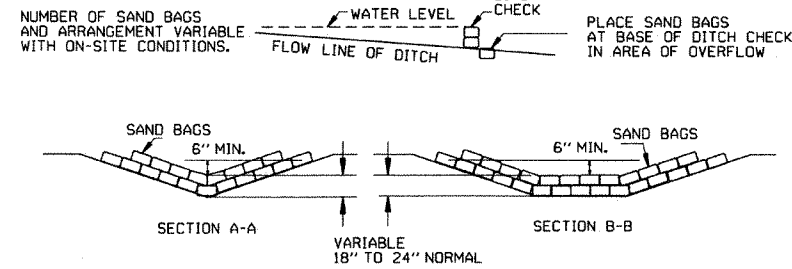
SILT FENCE ON R/W FENCE (E-4)

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.

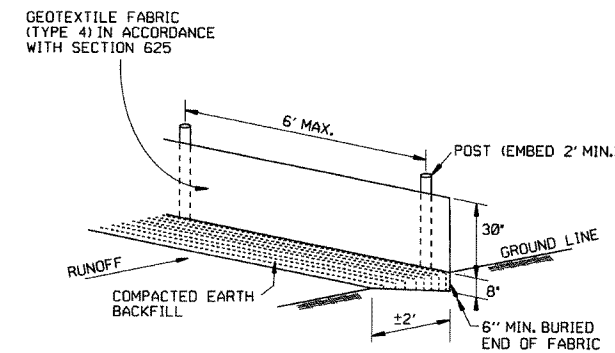
GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
2. NO GAPS SHALL BE LEFT BETWEEN BALES.
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL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

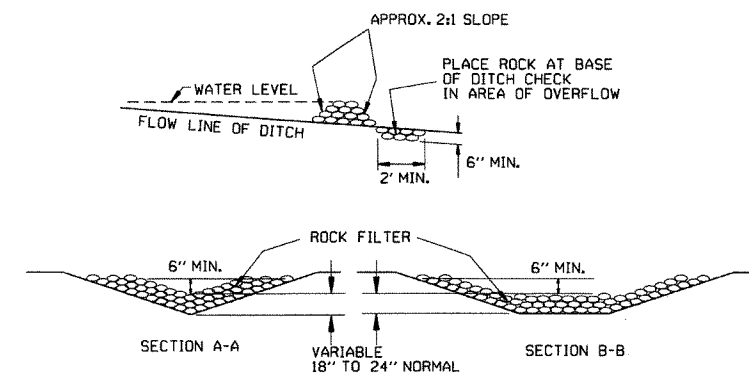


SAND BAG DITCH CHECK (E-5)



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\"/>		
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	STANDARD DRAWING TEC-1