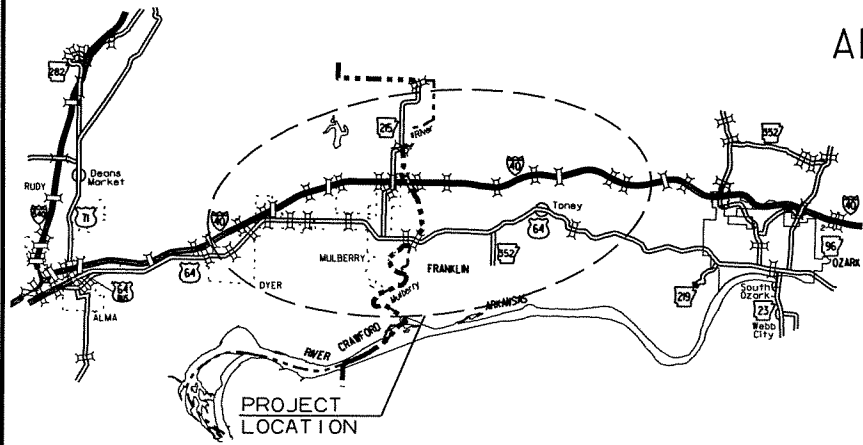


"A FULLY CONTROLLED ACCESS FACILITY"

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS FOR STATE HIGHWAY

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.	BB0403	1	75	
				② DYER - CRAVENS CREEK (S)				



VICINITY MAP

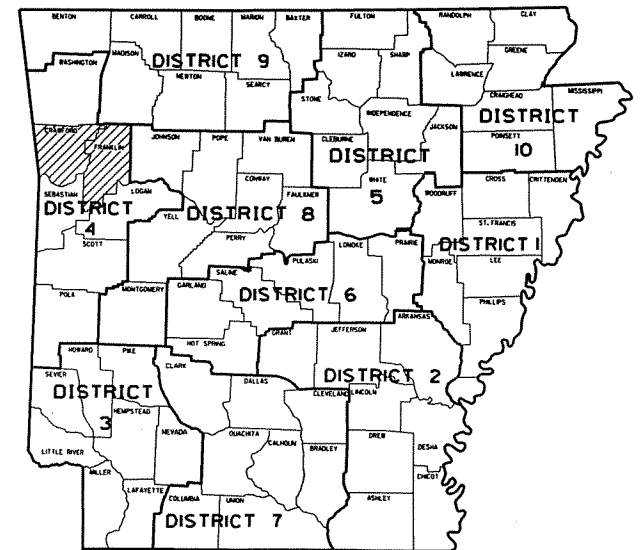
DYER-CRAVENS CREEK (S)

CRAWFORD & FRANKLIN COUNTIES

ROUTE 40 SECTIONS 11 & 12

FEDERAL AID PROJ. BIM-B40-0(211) & HSIP-40-1(264)17

JOB BB0403



ARK. HWY. DIST. NO. 4

BRIDGE DATA

- | | | |
|--|--|--|
| 1 STA. 1638+38.70 BR. END EXISTING 190' BRIDGE NO. A5113 40'-0" CLEAR ROADWAY STA. 1640+28.70 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION | 3 STA. 1664+07.04 BR. END EXISTING 208' BRIDGE NO. A5114 40'-0" CLEAR ROADWAY STA. 1666+15.04 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION | 5 STA. 1356+90.88 BR. END EXISTING 172' BRIDGE NO. A5110 40'-0" CLEAR ROADWAY STA. 1358+62.88 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION |
| 2 STA. 1638+87.02 BR. END EXISTING 190' BRIDGE NO. B5113 40'-0" CLEAR ROADWAY STA. 1640+77.02 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION | 4 STA. 1664+53.48 BR. END EXISTING 208' BRIDGE NO. B5114 40'-0" CLEAR ROADWAY STA. 1666+61.48 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION | |

EXCEPTIONS TO JOB BB0403 (BRIDGES)

- | | |
|---|---|
| 1 STA. 1179+94.62 BR. END 318.00' BRIDGE NO. A6820 40'-0" CLEAR ROADWAY STA. 1183+12.62 BR. END | 5 STA. 1356+02.88 BR. END 172.00' BRIDGE NO. B5110 40'-0" CLEAR ROADWAY STA. 1357+74.88 BR. END |
| 2 STA. 1179+46.12 BR. END 318.00' BRIDGE NO. B6820 40'-0" CLEAR ROADWAY STA. 1182+64.12 BR. END | 6 STA. 1508+03.66 BR. END 135.00' BRIDGE NO. A5111 40'-0" CLEAR ROADWAY STA. 1509+38.66 BR. END |
| 3 STA. 1292+83.15 BR. END 486.00' BRIDGE NO. A5109 40'-0" CLEAR ROADWAY STA. 1297+69.15 BR. END | 7 STA. 1507+49.64 BR. END 135.00' BRIDGE NO. B5111 40'-0" CLEAR ROADWAY STA. 1508+84.99 BR. END |
| 4 STA. 1292+83.15 BR. END 486.00' BRIDGE NO. B5109 40'-0" CLEAR ROADWAY STA. 1297+69.15 BR. END | |

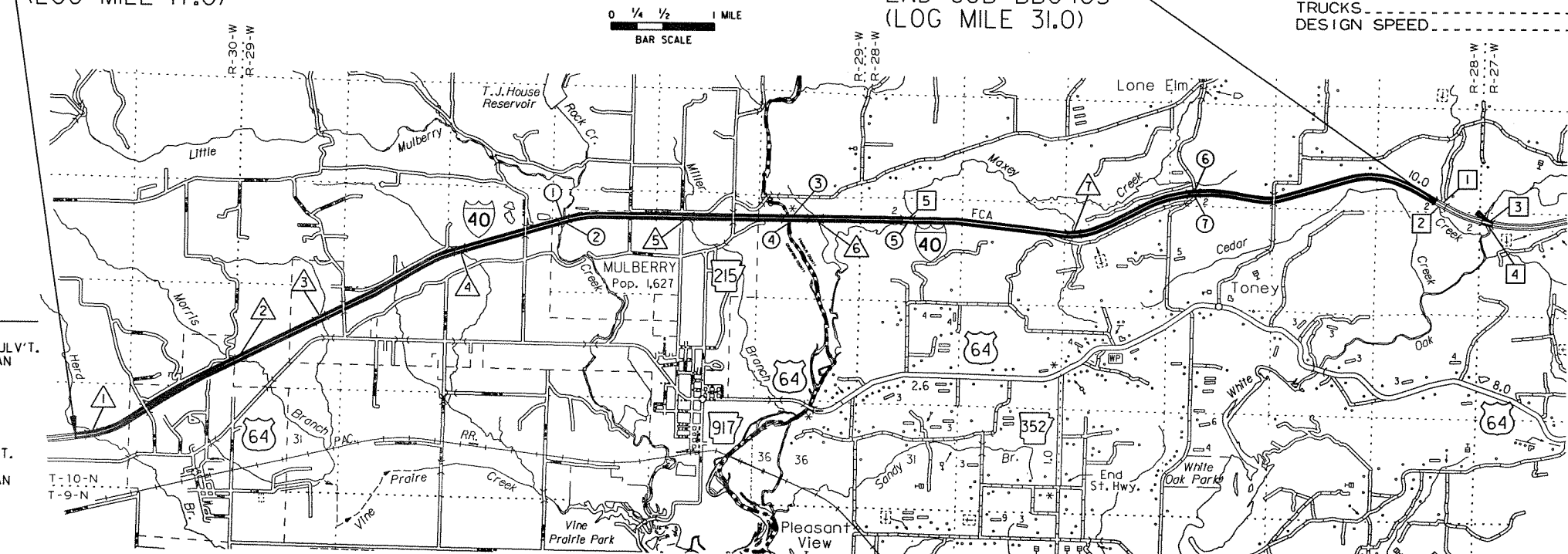
TOTAL LENGTH OF EXCEPTIONS
939.00' MEASURED ALONG CENTERLINE

STRUCTURES OVER 20'-0" SPAN

- | | |
|---|---|
| 1 STA. 914+00 IN PLACE DBL. 10' X 8' X 250' R.C. BOX CULV'T. TYPE "K" DROP INLET IN MEDIAN 6' X 6' X H = 4'-0" 45° RT. FWD. SKEW D.A. = 831 AC., C = 1.0 RETAIN | 5 STA. 1244+42 IN PLACE DBL. 10' X 8' X 208' R.C. BOX CULV'T. TYPE "T" DROP INLET IN MEDIAN H = 2'-0" 30° RT. FWD. SKEW D.A. = 1050 AC., C = 0.8 RETAIN |
| 2 STA. 999+10 IN PLACE DBL. 10' X 10' X 314' R.C. BOX CULV'T. TYPE "K" DROP INLET IN MEDIAN 5' X 5' X H = 10'-0" 45° RT. FWD. SKEW D.A. = 966 AC., C = 1.0 SPAN 32.06' RETAIN | 6 STA. 1310+76 IN PLACE DBL. 10' X 6' X 263' R.C. BOX CULV'T. TYPE "T" DROP INLET IN MEDIAN 2'-6" X 3'-0" X H = 8'-0" D.A. = 541 AC. RETAIN |
| 3 STA. 1045+59 IN PLACE DBL. 10' X 10' X 300' R.C. BOX CULVERT RETAIN | 7 STA. 1442+71 IN PLACE DBL. 12' X 8' X 415' R.C. BOX CULV'T. TYPE "T" DROP INLET IN MEDIAN 2'-6" X 3'-0" X H = 2'-6" D.A. = 693 AC. RETAIN |
| 4 STA. 1125+22 IN PLACE TYPE "T" DROP INLET H = 0' - 6" DBL. 10' X 6' X 234' R.C. BOX CULVERT RETAIN | |

STA. 897+35.95
BEGIN JOB BB0403
(LOG MILE 17.0)

STA. 1638+50.52
END JOB BB0403
(LOG MILE 31.0)



0 1/4 1/2 1 MILE
BAR SCALE

DESIGN TRAFFIC DATA

DESIGN YEAR	2033
2013 ADT	30,000
2033 ADT	40,000
2033 DHV	4,400
DIRECTIONAL DISTRIBUTION	0.60
TRUCKS	36%
DESIGN SPEED	70 MPH

APPROVED



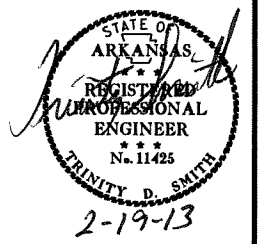
11/7/13
DEPUTY DIRECTOR
AND CHIEF ENGINEER

BEGINNING OF PROJECT		MID POINT OF PROJECT		END OF PROJECT		LENGTH OF PROJECT CALCULATED ALONG C.L.	
LATITUDE	= N 35° 29' 50"	LATITUDE	= N 35° 31' 41"	LATITUDE	= N 35° 31' 47"	GROSS LENGTH OF PROJECT	74144.57 FEET OR 14.043 MILES
LONGITUDE	= W 94° 09' 46"	LONGITUDE	= W 94° 02' 30"	LONGITUDE	= W 93° 55' 30"	NET " " ROADWAY	72605.57 " 13.751 "
						NET " " BRIDGES	570.00 " 0.108 "
						NET " " PROJECT	73175.57 " 13.859 "

P.E. BB0403
NON-PART.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
02/19/13				6	ARK.			
						JOB NO. BB0403	2	75

2 INDEX OF SHEETS, GOV. SPECS., & GEN. NOTES



INDEX OF SHEETS

SHEET NO.	TITLE	BRIDGE NO.	DRWG. NO.	DATE
1	TITLE SHEET			
2	INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES			
3	TYPICAL SECTIONS OF IMPROVEMENT			
4 - 7	SPECIAL DETAILS			
8 - 13	MAINTENANCE OF TRAFFIC			
14 - 16	QUANTITIES			
17	SCHEDULE OF BRIDGE QUANTITIES	A5110, A&B5113, A&B5114	53506	
18	SUMMARY OF QUANTITIES AND REVISIONS			
19 - 46	PLAN SHEETS			
47	DETAILS OF VERY EARLY STRENGTH LATEX MODIFIED CONCRETE OVERLAY (SHEET 1 OF 2)	A5110, A&B5113, A&B5114	53507	
48	DETAILS OF VERY EARLY STRENGTH LATEX MODIFIED CONCRETE OVERLAY (SHEET 2 OF 2)	A5110, A&B5113, A&B5114	53508	
49	LAYOUT OF DUAL BRIDGE OVER MAXEY CREEK - FOR INFORMATION ONLY	A5110	53509	
50	DETAILS OF SUPER STRUCTURE (SHEET 1) - FOR INFORMATION ONLY	A5110	53510	
51	DETAILS OF SUPER STRUCTURE (SHEET 2) - FOR INFORMATION ONLY	A5110	53511	
52	DETAILS OF SUPER STRUCTURE (SHEET 3) - FOR INFORMATION ONLY	A5110	53512	
53	DETAILS OF SUPER STRUCTURE (SHEET 4) - FOR INFORMATION ONLY	A5110	53513	
54	LAYOUT OF DUAL BRIDGE OVER CRAVENS CREEK - FOR INFORMATION ONLY	A&B5113	53514	
55	DETAILS OF SUPER STRUCTURE (SHEET 1) - FOR INFORMATION ONLY	A&B5113	53515	
56	DETAILS OF SUPER STRUCTURE (SHEET 2) - FOR INFORMATION ONLY	A&B5113	53516	
57	DETAILS OF SUPER STRUCTURE (SHEET 3) - FOR INFORMATION ONLY	A&B5113	53517	
58	DETAILS OF SUPER STRUCTURE (SHEET 4) - FOR INFORMATION ONLY	A&B5113	53518	
59	LAYOUT OF DUAL BRIDGE OVER WHITE OAK CREEK - FOR INFORMATION ONLY	A&B5114	53519	
60	DETAILS OF SUPER STRUCTURE (SHEET 1) - FOR INFORMATION ONLY	A&B5114	53520	
61	DETAILS OF SUPER STRUCTURE (SHEET 2) - FOR INFORMATION ONLY	A&B5114	53521	
62	DETAILS OF SUPER STRUCTURE (SHEET 3) - FOR INFORMATION ONLY	A&B5114	53522	
63	DETAILS OF SUPER STRUCTURE (SHEET 4) - FOR INFORMATION ONLY	A&B5114	53523	
64	DETAILS OF SUPER STRUCTURE (SHEET 5) - FOR INFORMATION ONLY	A&B5114	53524	
65	CONCRETE DITCH PAVING		CDP-1	11-17-10
66	GUARD RAIL DETAILS		GR-8	7-14-10
67	GUARD RAIL DETAILS		GR-9A	4-17-08
68	GUARD RAIL DETAILS		GRT-1	7-14-10
69	PAVEMENT MARKING DETAILS		PM-1	11-17-10
70	PERMANENT PAVEMENT MARKING ON ACCESS CONTROLLED ROADWAYS		PM-2	7-26-12
71	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		TC-1	12-15-11
72	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		TC-2	3-11-10
73	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		TC-3	10-15-09
74	TEMPORARY EROSION CONTROL DEVICES		TEC-1	12-15-11
75	TEMPORARY EROSION CONTROL DEVICES		TEC-4	7-26-12

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
103-1	DETERMINATION OF DBE PARTICIPATION
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
718-2	REFLECTORIZED PAINT PAVEMENT MARKINGS
804-1	INSTALLATION OF DOWEL BARS AND TIE BARS
JOB BB0403	BRIDGE DECK REPAIR
JOB BB0403	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB BB0403	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB BB0403	CONCRETE DITCH PAVING
JOB BB0403	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB BB0403	HIGH PERFORMANCE PAVEMENT MARKING
JOB BB0403	HYDRODEMOLITION
JOB BB0403	INTERNET BIDDING
JOB BB0403	OFF-SITE RESTRAINING CONDITIONS FOR AMERICAN BURYING BEETLE
JOB BB0403	MAINTENANCE OF TRAFFIC
JOB BB0403	MANAGEMENT OF HYDRODEMOLITION WASTEWATER
JOB BB0403	NESTING SITES OF MIGRATORY BIRDS
JOB BB0403	PARTNERING REQUIREMENTS
JOB BB0403	SEQUENCE OF CONSTRUCTION
JOB BB0403	SILICONE JOINT SEALANT
JOB BB0403	SITE USE (A + C METHOD)
JOB BB0403	STORM WATER POLLUTION PREVENTION PLAN
JOB BB0403	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB BB0403	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB BB0403	TRIANGULAR SILT DIKE
JOB BB0403	UNDERDRAIN FLUSHING AND REHABILITATION
JOB BB0403	UTILITY ADJUSTMENTS
JOB BB0403	VALUE ENGINEERING
JOB BB0403	VERY EARLY STRENGTH LATEX MODIFIED CONCRETE OVERLAY
JOB BB0403	WARM MIX ASPHALT
JOB BB0403	WATER POLLUTION CONTROL
JOB BB0403	WATTLES
JOB BB0403	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB BB0403	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB BB0403	WRSF TRAINING WORKSHOP

GENERAL NOTES

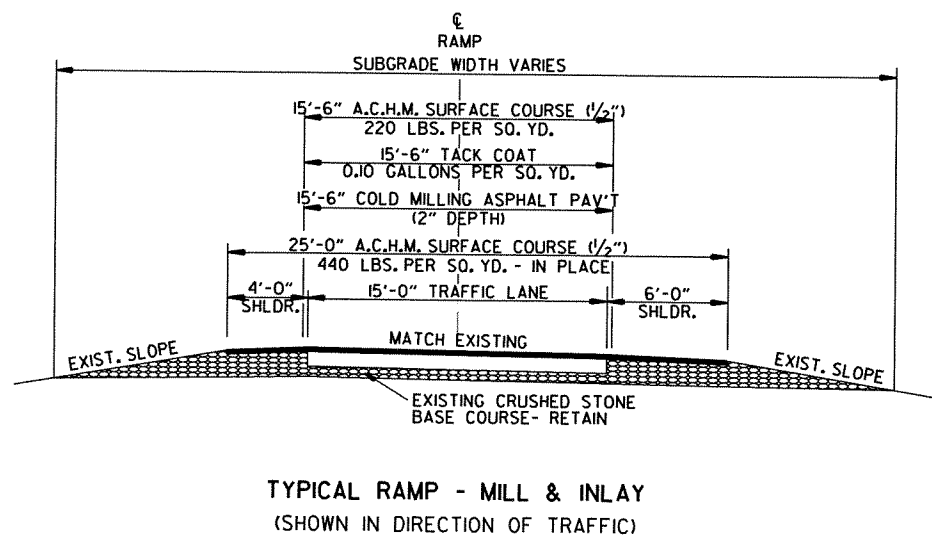
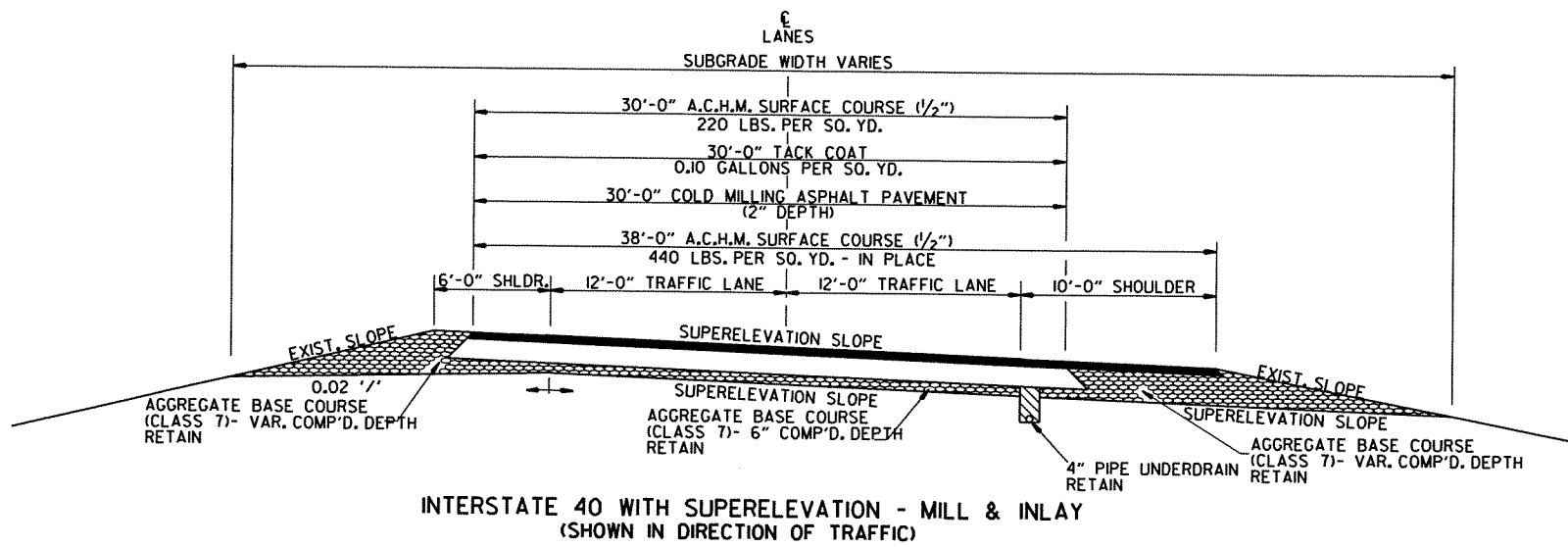
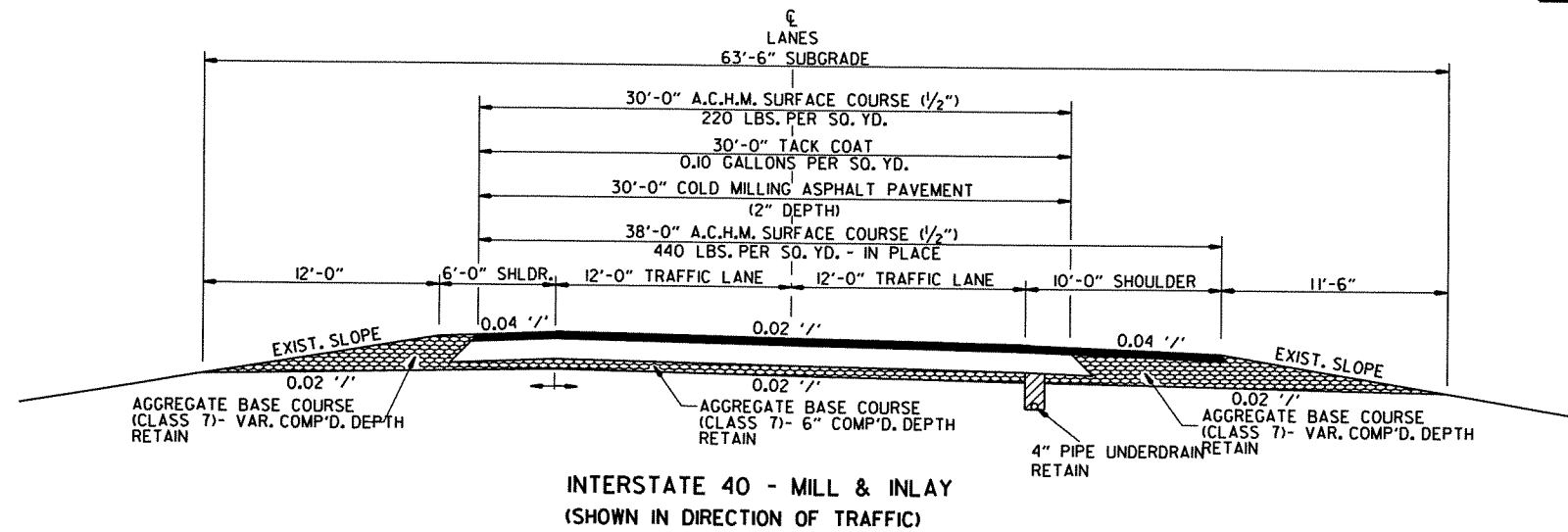
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- ANY REQUIRED EROSION CONTROL MEASURES FROM WASTING MATERIALS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 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.

2/19/2013

BB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0403							3	75

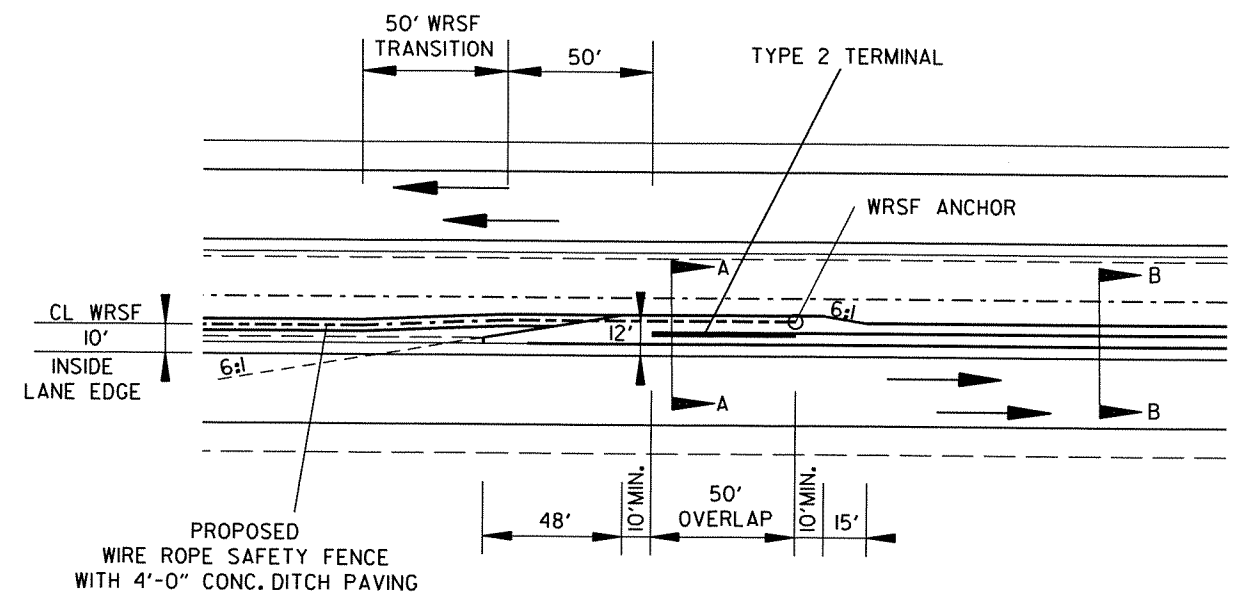
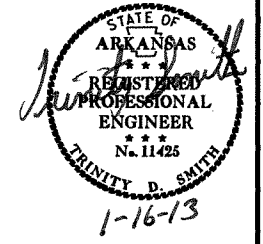
2 TYPICAL SECTIONS OF IMPROVEMENT



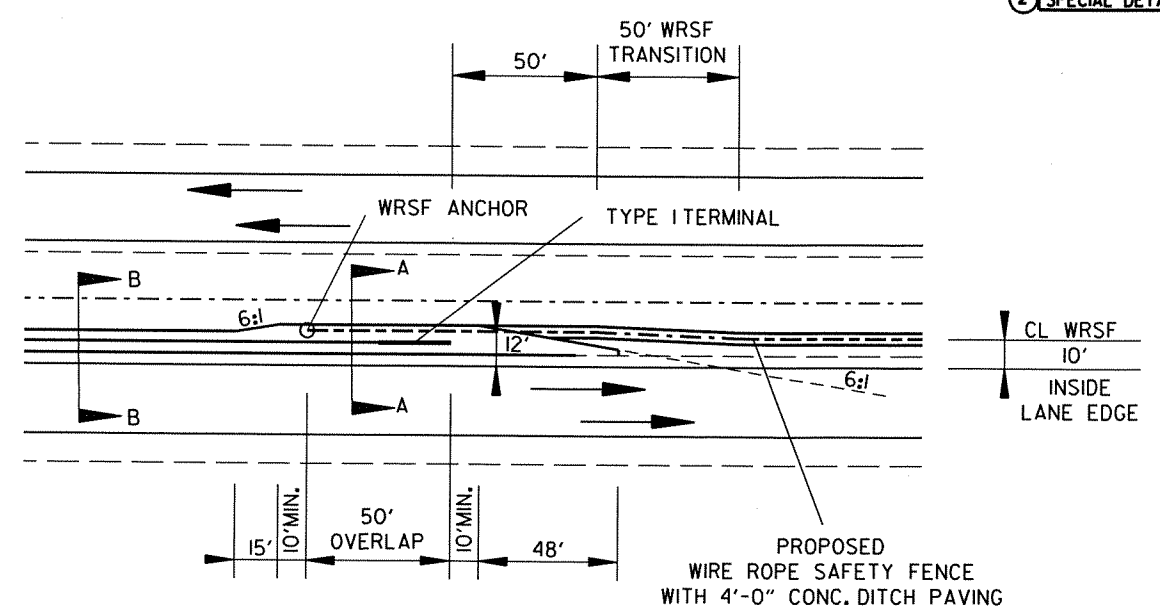
TYPICAL SECTIONS OF IMPROVEMENT

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.	BB0403		4	75

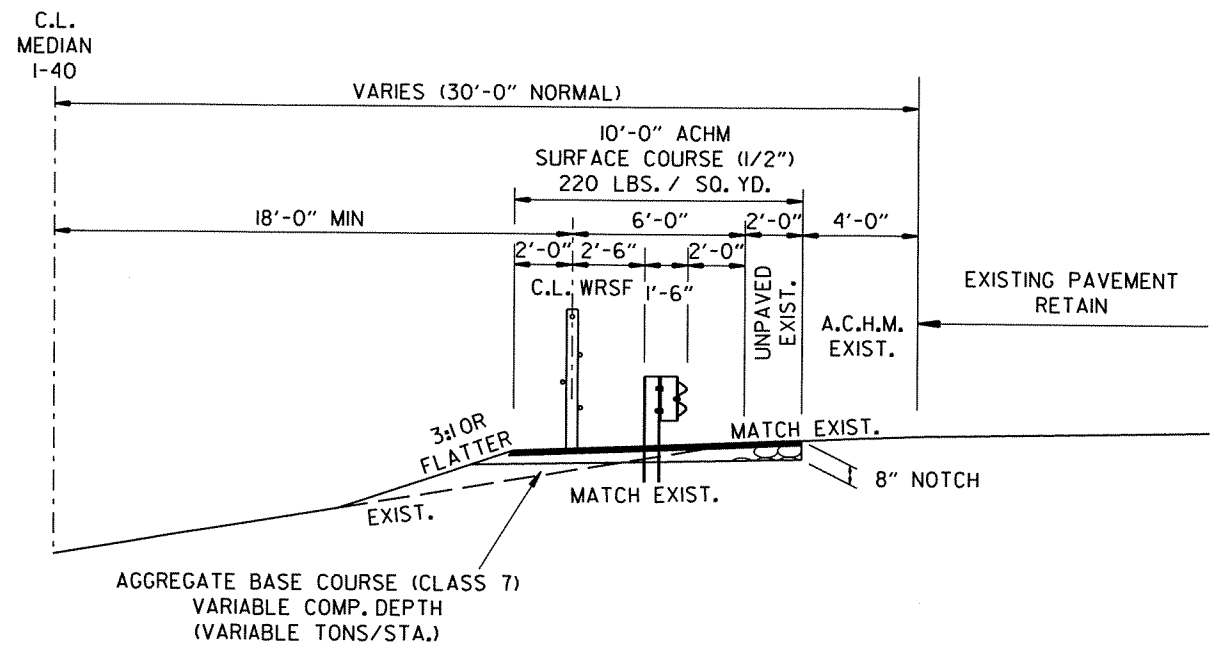
2 SPECIAL DETAILS



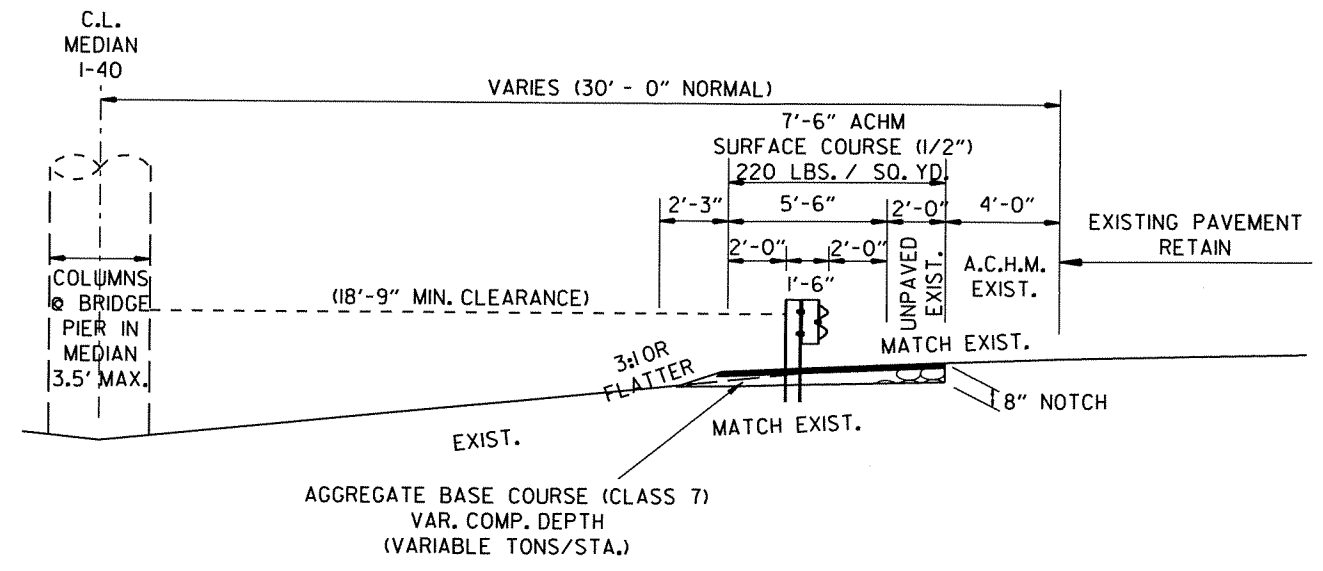
WRSF AND GUARDRAIL APPROACH FOR OVERPASS



WRSF AND GUARDRAIL DEPARTURE FOR OVERPASS



SECTION A-A



SECTION B-B

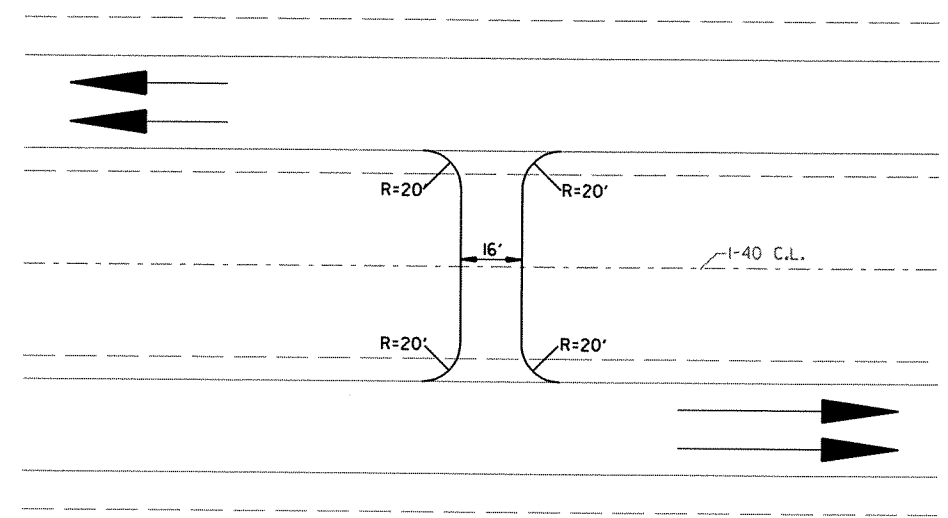
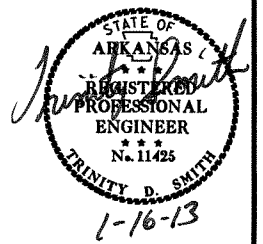
DETAILS OF SHOULDER WIDENING FOR GUARDRAIL AND OVERLAPS WITH ENDS OF WIRE ROPE SAFETY FENCE

1/14/2013

BB0403.DGN

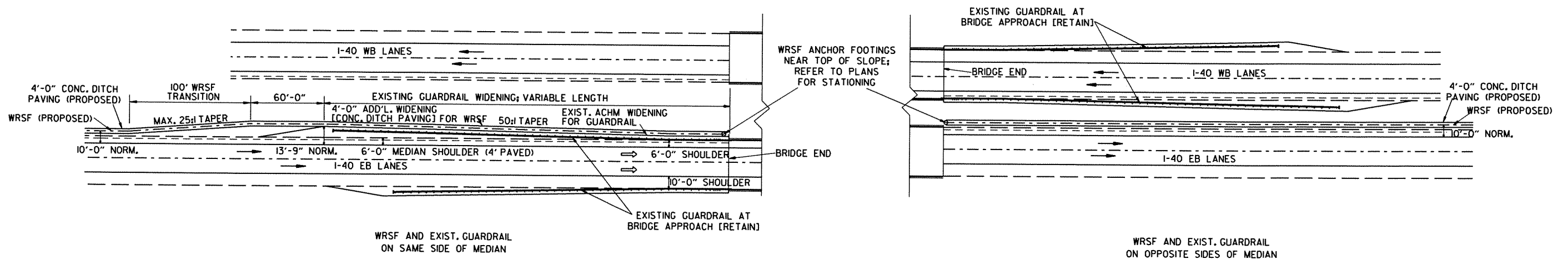
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				6	ARK.			
JOB NO.						BB0403	5	75

2 SPECIAL DETAILS



DETAIL OF PAVED MEDIAN CROSSING

NOTE:
 MEDIAN CROSSING TO BE CONSTRUCTED OF AGGREGATE
 BASE COURSE (CLASS 7)- 7" COMPACTED DEPTH &
 ACHM SURFACE COURSE (1/2")- 220 LBS. PER SQ. YD.



DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS

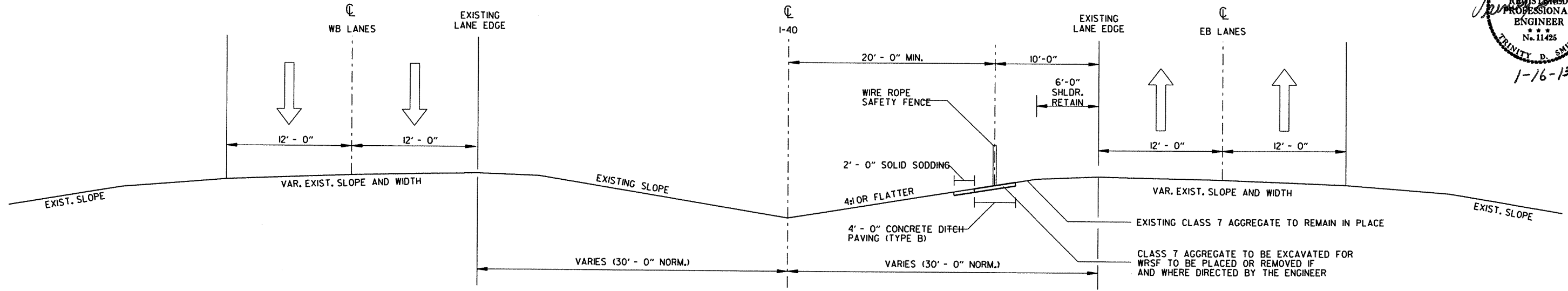
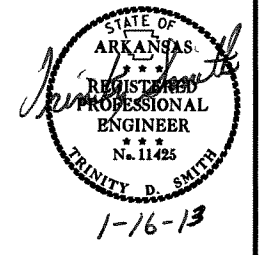
REFER TO PLANS FOR RELATIVE PLACEMENT
 OF GUARDRAIL AND WIRE ROPE SAFETY FENCE
 AT EACH BRIDGE END

SPECIAL DETAILS

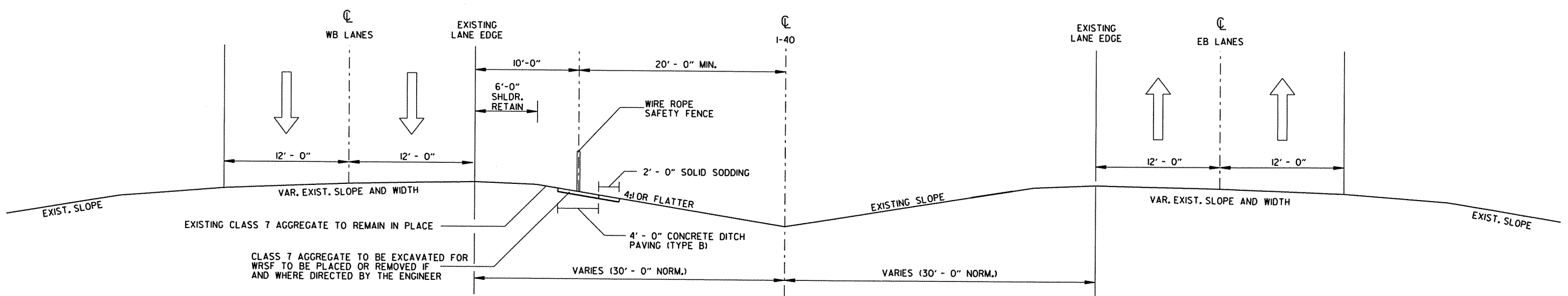
1/14/2013
 RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0403						6	75	

2 SPECIAL DETAILS



TYPICAL SECTION OF IMPROVEMENT FOR WIRE ROPE SAFETY FENCE RIGHT OF CENTERLINE



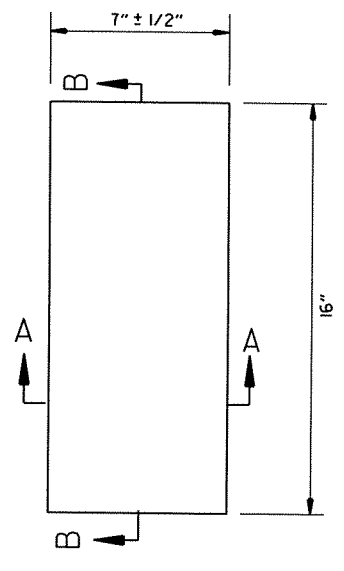
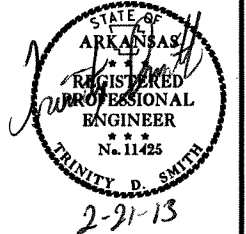
TYPICAL SECTION OF IMPROVEMENT FOR WIRE ROPE SAFETY FENCE LEFT OF CENTERLINE

SPECIAL DETAILS

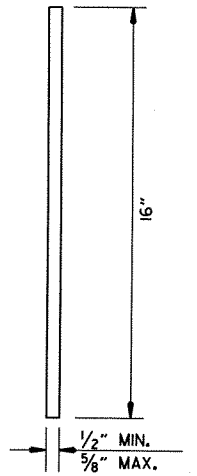
1/14/2013
RBB0403.DCN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
02/21/13				6	ARK.			
				JOB NO.	BB0403		6A	75

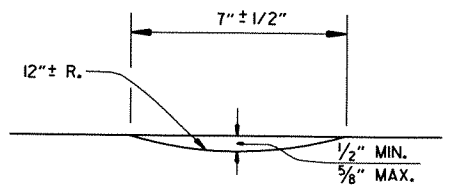
② SPECIAL DETAILS



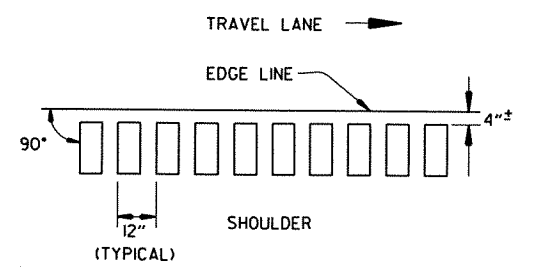
PLAN



SECTION B-B

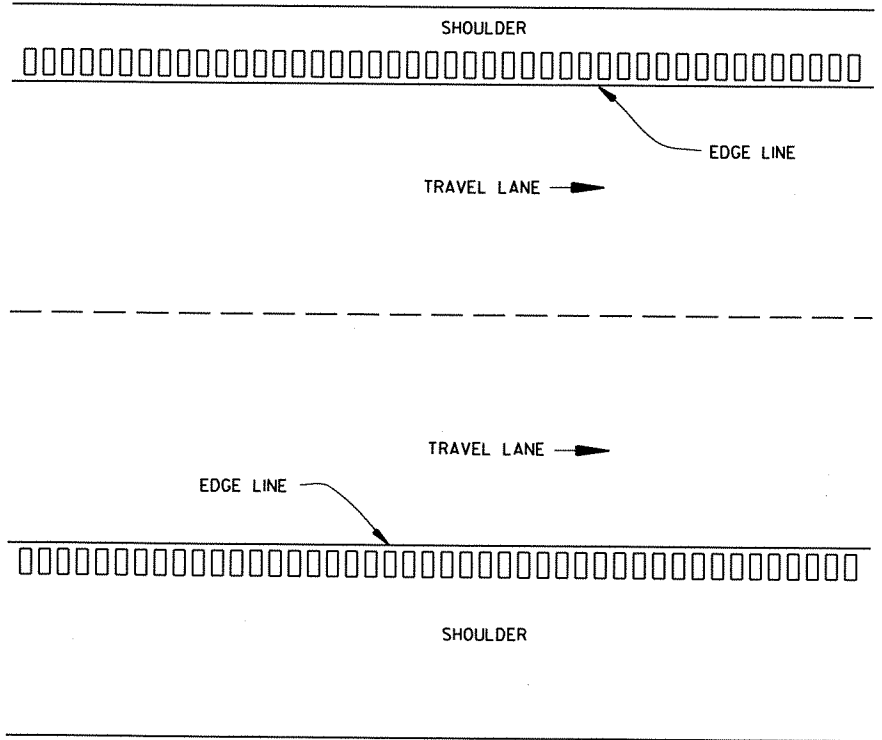


SECTION A-A



LOCATION PLAN OF RUMBLE STRIPS
LEFT OR RIGHT SHOULDER

DETAILS OF RUMBLE STRIPS



PLAN VIEW

NOTES:

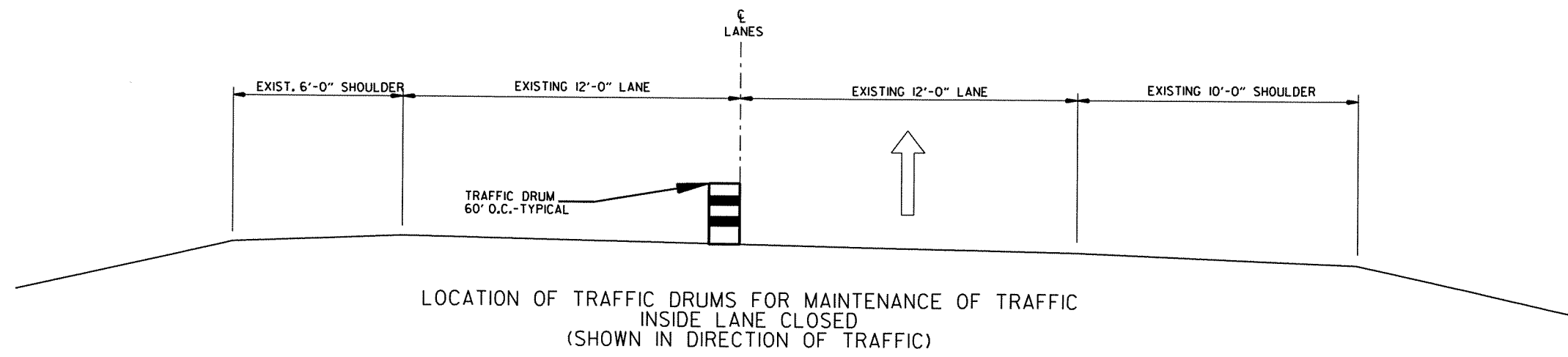
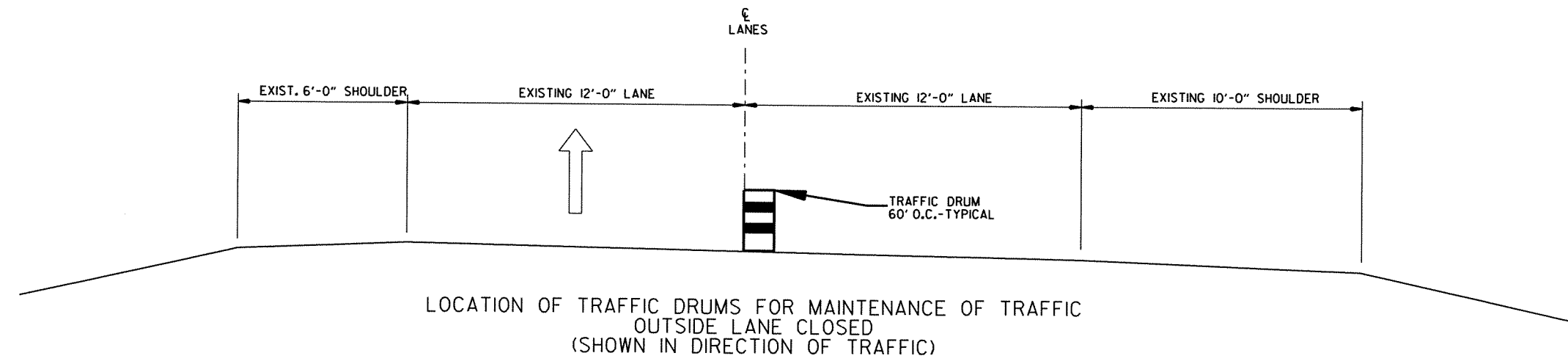
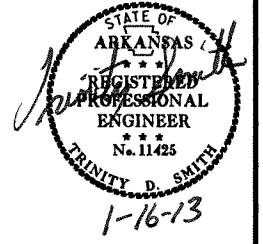
1. ALIGNMENT OF RUMBLE STRIPS SHALL GENERALLY BE STRAIGHT AND OFFSET APPROXIMATELY 4" FROM THE OUTER EDGE OF THE EDGE LINE. THIS OFFSET MAY BE ADJUSTED TO ACCOMMODATE VARIATIONS IN THE EDGE LINE.
2. THE 1/2" DEPTH SHALL GENERALLY APPLY FOR THE ENTIRE 16" LENGTH. SOME VARIATION TO SUIT SHOULDER SLOPE BREAKS MAY BE NECESSARY.
3. RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS, APPROACH SLABS, OR ACROSS TRANSVERSE JOINTS OF CONCRETE SHOULDERS.

2/21/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	880403		7	75

② SPECIAL DETAILS



1/14/2013

RB80403.DGN

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
02-19-13				6	ARK.			
						JOB NO. B80403	8	75

② MAINTENANCE OF TRAFFIC

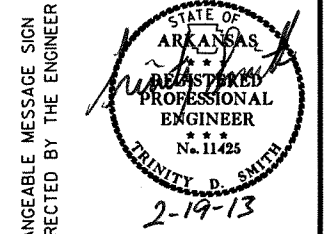
CONSTRUCTION PAVEMENT MARKINGS:
 APPLY CONSTRUCTION PAVEMENT MARKINGS
 ACCORDING TO STD. DWG. PM-2
 4" YELLOW - 152964 LIN. FT.
 4" WHITE - 202198 LIN. FT.
 8" WHITE - 3532 LIN. FT.

REMOVAL OF PAVEMENT MARKINGS
 PERMANENT = 10304 LIN. FT.
 CONSTRUCTION = 1628 LIN. FT.

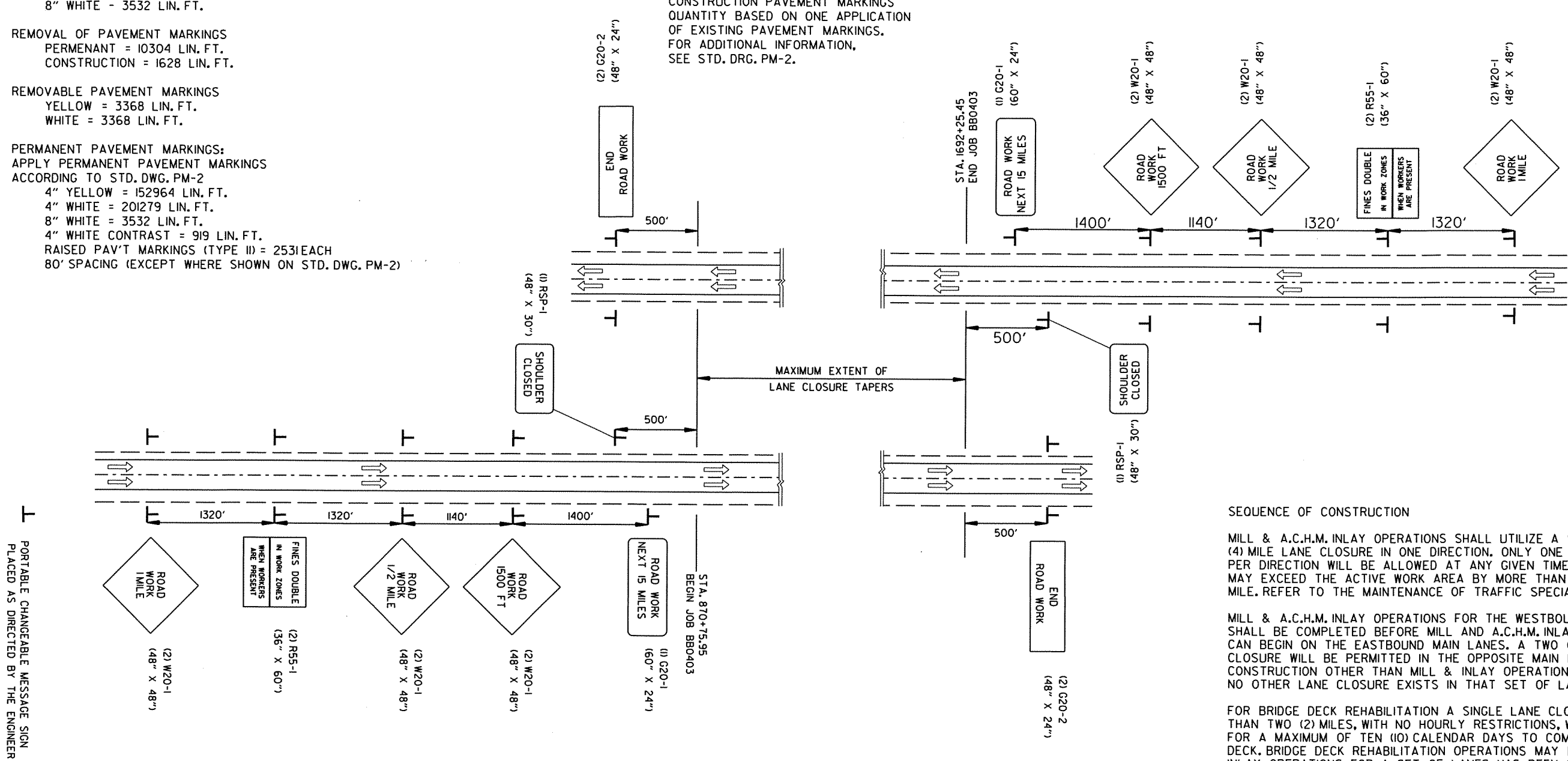
REMOVABLE PAVEMENT MARKINGS
 YELLOW = 3368 LIN. FT.
 WHITE = 3368 LIN. FT.

PERMANENT PAVEMENT MARKINGS:
 APPLY PERMANENT PAVEMENT MARKINGS
 ACCORDING TO STD. DWG. PM-2
 4" YELLOW = 152964 LIN. FT.
 4" WHITE = 201279 LIN. FT.
 8" WHITE = 3532 LIN. FT.
 4" WHITE CONTRAST = 919 LIN. FT.
 RAISED PAV'T MARKINGS (TYPE II) = 2531 EACH
 80' SPACING (EXCEPT WHERE SHOWN ON STD. DWG. PM-2)

NOTE:
 CONSTRUCTION PAVEMENT MARKINGS
 QUANTITY BASED ON ONE APPLICATION
 OF EXISTING PAVEMENT MARKINGS.
 FOR ADDITIONAL INFORMATION,
 SEE STD. DRG. PM-2.



PORTABLE CHANGEABLE MESSAGE SIGN
 PLACED AS DIRECTED BY THE ENGINEER



SEQUENCE OF CONSTRUCTION

MILL & A.C.H.M. INLAY OPERATIONS SHALL UTILIZE A SINGLE FOUR (4) MILE LANE CLOSURE IN ONE DIRECTION. ONLY ONE LANE CLOSURE PER DIRECTION WILL BE ALLOWED AT ANY GIVEN TIME. NO LANE CLOSURE MAY EXCEED THE ACTIVE WORK AREA BY MORE THAN ONE QUARTER (1/4) MILE. REFER TO THE MAINTENANCE OF TRAFFIC SPECIAL PROVISION.

MILL & A.C.H.M. INLAY OPERATIONS FOR THE WESTBOUND MAIN LANES SHALL BE COMPLETED BEFORE MILL AND A.C.H.M. INLAY OPERATIONS CAN BEGIN ON THE EASTBOUND MAIN LANES. A TWO (2) MILE LANE CLOSURE WILL BE PERMITTED IN THE OPPOSITE MAIN LANES FOR CONSTRUCTION OTHER THAN MILL & INLAY OPERATIONS AS LONG AS NO OTHER LANE CLOSURE EXISTS IN THAT SET OF LANES.

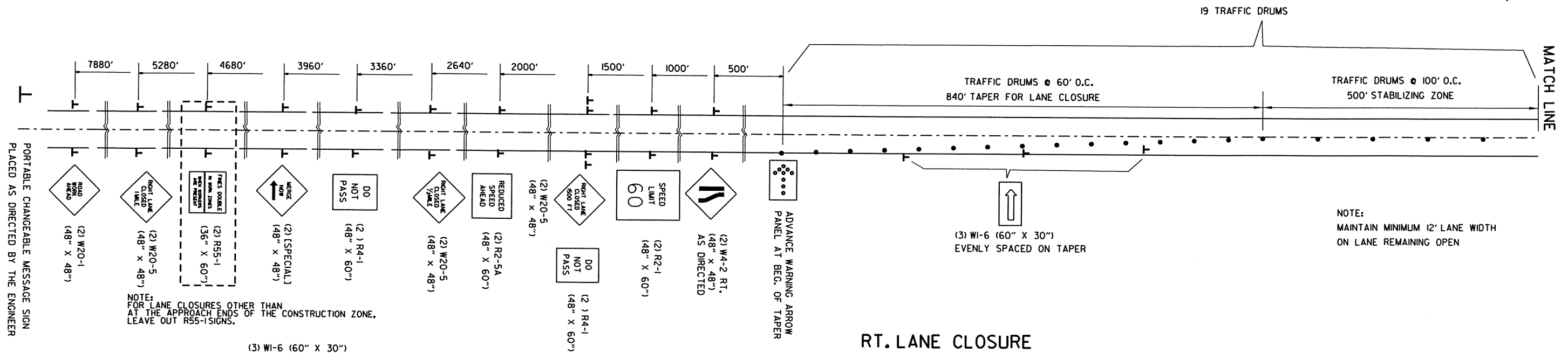
FOR BRIDGE DECK REHABILITATION A SINGLE LANE CLOSURE OF NO MORE THAN TWO (2) MILES, WITH NO HOURLY RESTRICTIONS, WILL BE PERMITTED FOR A MAXIMUM OF TEN (10) CALENDAR DAYS TO COMPLETE EACH BRIDGE DECK. BRIDGE DECK REHABILITATION OPERATIONS MAY BEGIN WHEN MILL & INLAY OPERATIONS FOR A SET OF LANES HAS BEEN COMPLETED. ONLY ONE LANE CLOSURE PER SET OF MAIN LANES WILL BE ALLOWED AND SHALL NOT EXCEED THE ACTIVE WORK AREA BY MORE THAN ONE QUARTER (1/4) MILE. PRECAST CONCRETE BARRIER WALL WILL BE PROVIDED FOR BRIDGE DECK REHABILITATION AS SHOWN IN THE PLANS. REFER TO THE MAINTENANCE OF TRAFFIC SPECIAL PROVISION.

THE WESTBOUND MAIN LANE BRIDGES ARE TO BE COMPLETED BEFORE EASTBOUND MAIN LANE BRIDGE DECK REHABILITATION BEGINS. WHILE BRIDGE DECK OPERATIONS ARE UNDERWAY IN ONE DIRECTION, A TWO (2) MILE LANE CLOSURE WILL BE PERMITTED IN THE OPPOSITE MAIN LANES FOR CONSTRUCTION ACTIVITIES OTHER THAN BRIDGE DECK REHABILITATION, AS LONG AS NO OTHER LANE CLOSURE EXISTS IN THAT SET OF LANES. AS THE CONTRACTOR PROCEEDS WITH BRIDGE DECK REHABILITATION IN THE EASTBOUND LANES, BRIDGE DECK GROOVING WILL BE PERMITTED ON THE WESTBOUND LANES BRIDGES UTILIZING THE PERMITTED SINGLE TWO (2) MILE LANE CLOSURE.

PORTABLE CHANGEABLE MESSAGE SIGN
 PLACED AS DIRECTED BY THE ENGINEER

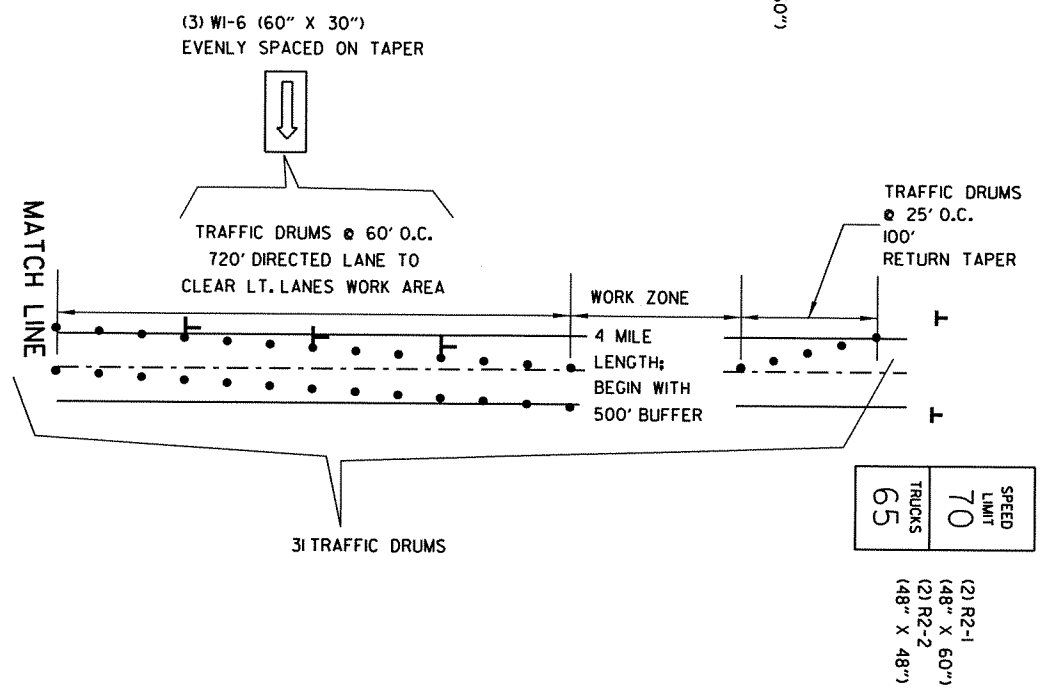
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BBO403							9	75

② MAINTENANCE OF TRAFFIC



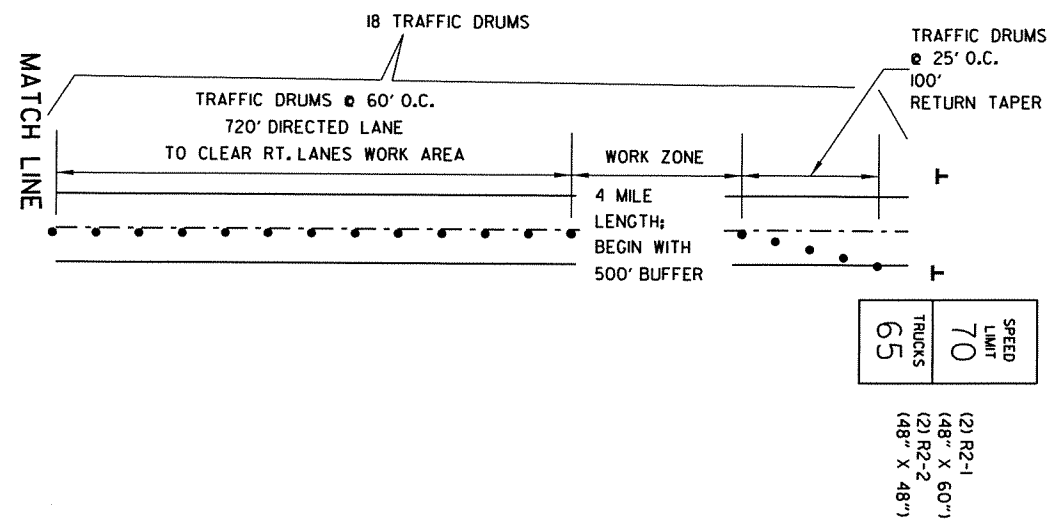
RT. LANE CLOSURE

1SET OF THIS NEEDED FOR JOB BBO403.



DIVERSION FOR LT. LANE WORK ZONE

1SET OF THIS NEEDED FOR JOB BBO403



DIVERSION FOR RT. LANE WORK ZONE

1SET OF THIS NEEDED FOR JOB BBO403

MAINTENANCE OF TRAFFIC WORK ZONE - LANE CLOSURE

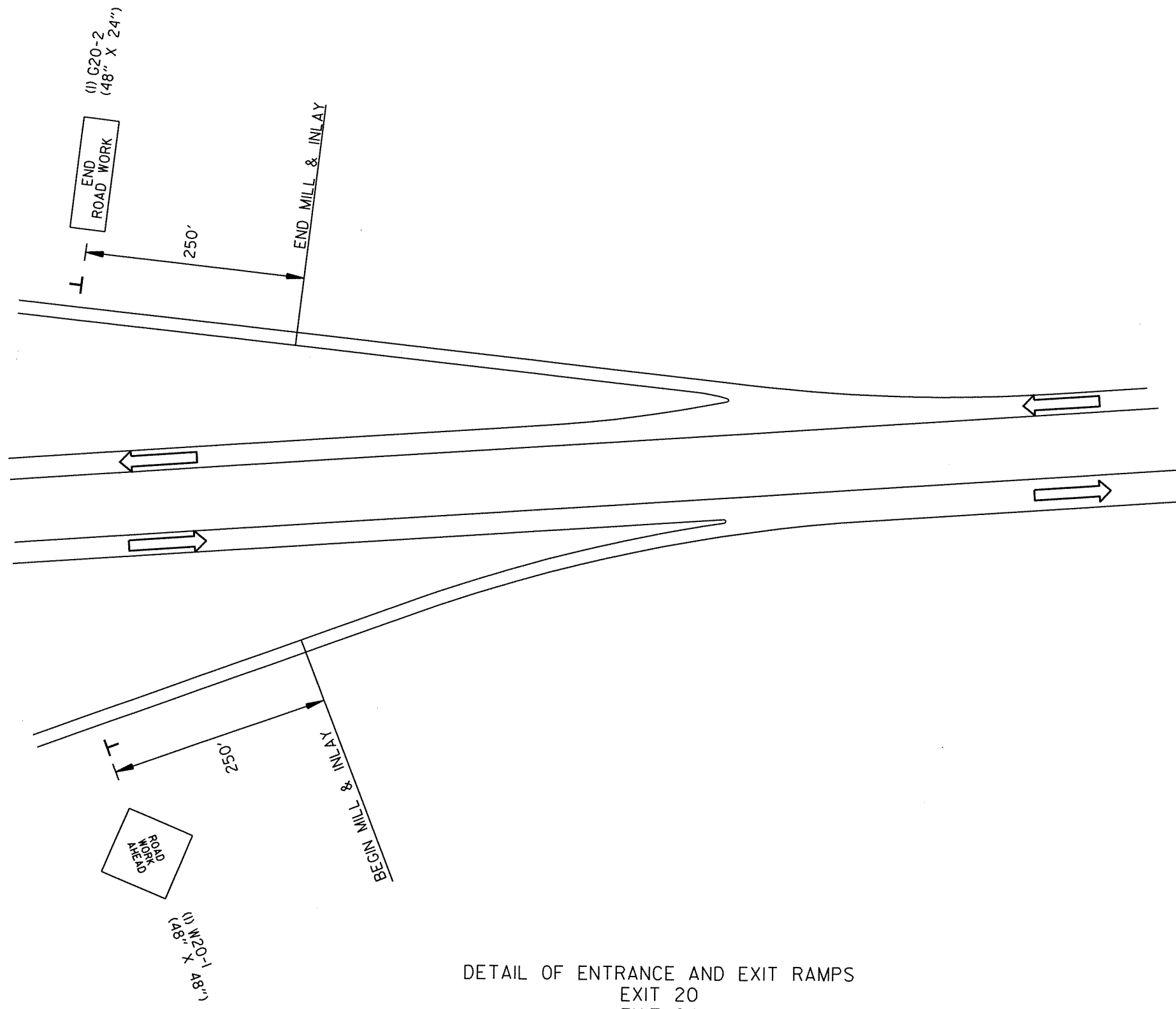
ADVANCE WARNING SIGNS FOR ENTRANCE AND EXIT RAMPS
 ROAD WORK AHEAD (4) = 64 SQ. FT.
 END ROAD WORK (4) = 32 SQ. FT.

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.	BB0403		10	75

② MAINTENANCE OF TRAFFIC



1-16-13

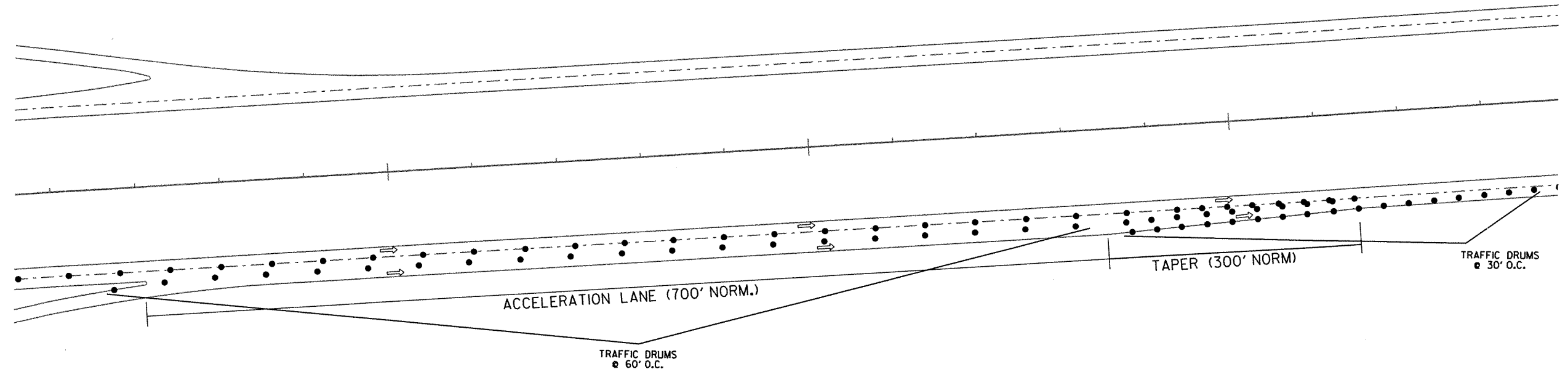
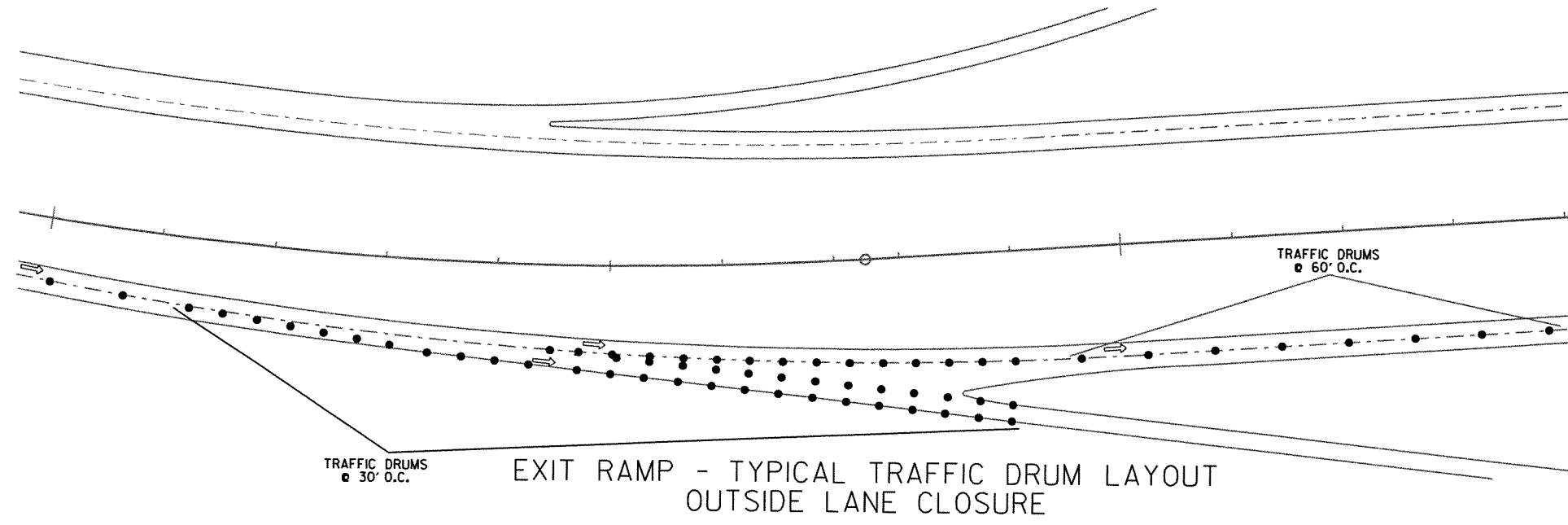
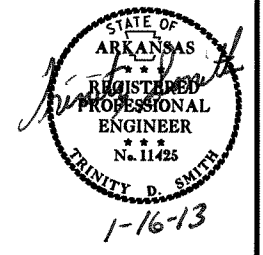


DETAIL OF ENTRANCE AND EXIT RAMPS
 EXIT 20
 EXIT 24

MAINTENANCE OF TRAFFIC
 DETAIL OF RAMPS

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.	BB0403		11	75

② MAINTENANCE OF TRAFFIC



EXIT 20:
EASTBOUND EXIT = 24 TRAFFIC DRUMS
EASTBOUND ENTRANCE = 37 TRAFFIC DRUMS

WESTBOUND EXIT = 24 TRAFFIC DRUMS
WESTBOUND ENTRANCE = 37 TRAFFIC DRUMS

EXIT 24:
EASTBOUND EXIT = 24 TRAFFIC DRUMS
EASTBOUND ENTRANCE = 37 TRAFFIC DRUMS

WESTBOUND EXIT = 24 TRAFFIC DRUMS
WESTBOUND ENTRANCE = 37 TRAFFIC DRUMS

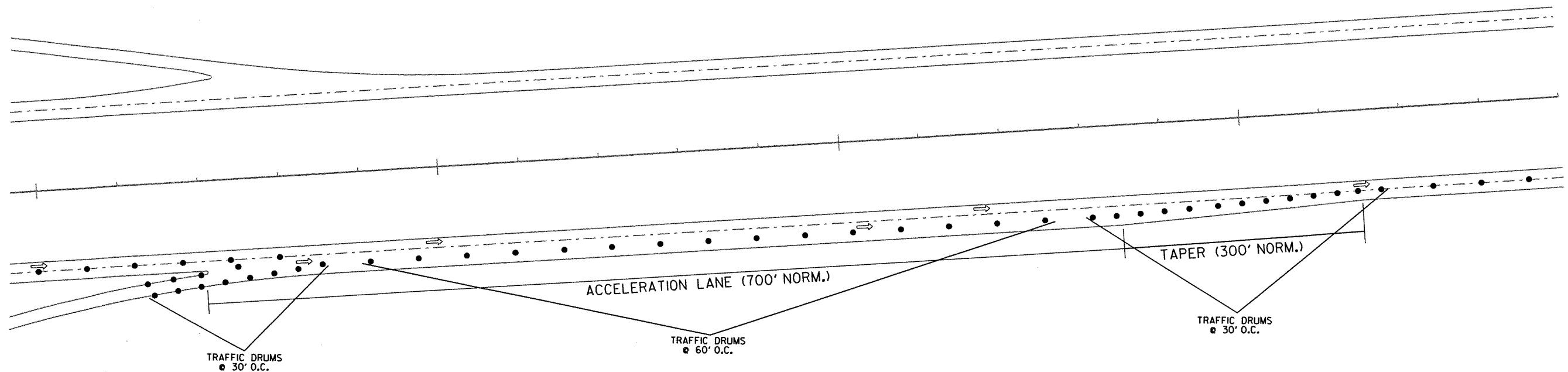
MAINTENANCE OF TRAFFIC
DETAIL OF RAMPS WITH LANE CLOSURE

1/14/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0403		12	75

② MAINTENANCE OF TRAFFIC



ENTRANCE RAMP - TYPICAL TRAFFIC DRUM LAYOUT
ACCELERATION LANE CLOSURE

EXIT 20:
EASTBOUND ENTRANCE = 24 TRAFFIC DRUMS
WESTBOUND ENTRANCE = 24 TRAFFIC DRUMS

EXIT 24:
EASTBOUND ENTRANCE = 24 TRAFFIC DRUMS
WESTBOUND ENTRANCE = 24 TRAFFIC DRUMS

MAINTENANCE OF TRAFFIC
DETAIL OF RAMPS WITH LANE CLOSURE

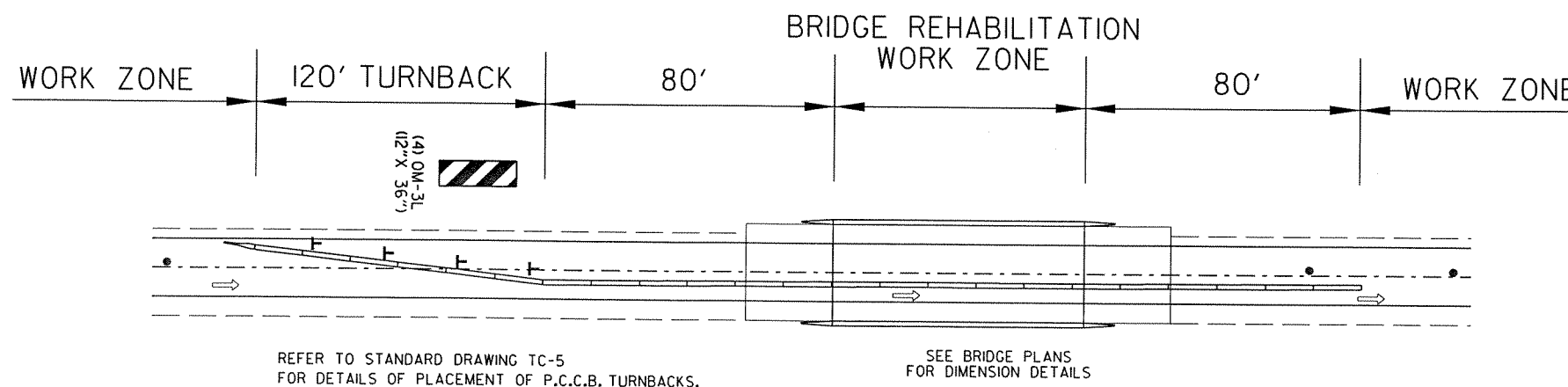
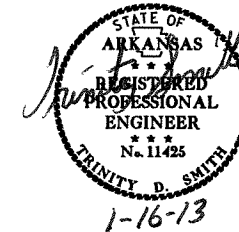
1/14/2013

BB0403.DGN

PRECAST CONCRETE BARRIER WALL (5 LOCATIONS - 10 INSTALLATIONS)
 (1) FURNISH AND INSTALL = 513 LIN. FT.
 (9) RELOCATE = 513 LIN. FT. (PER INSTALLATION)

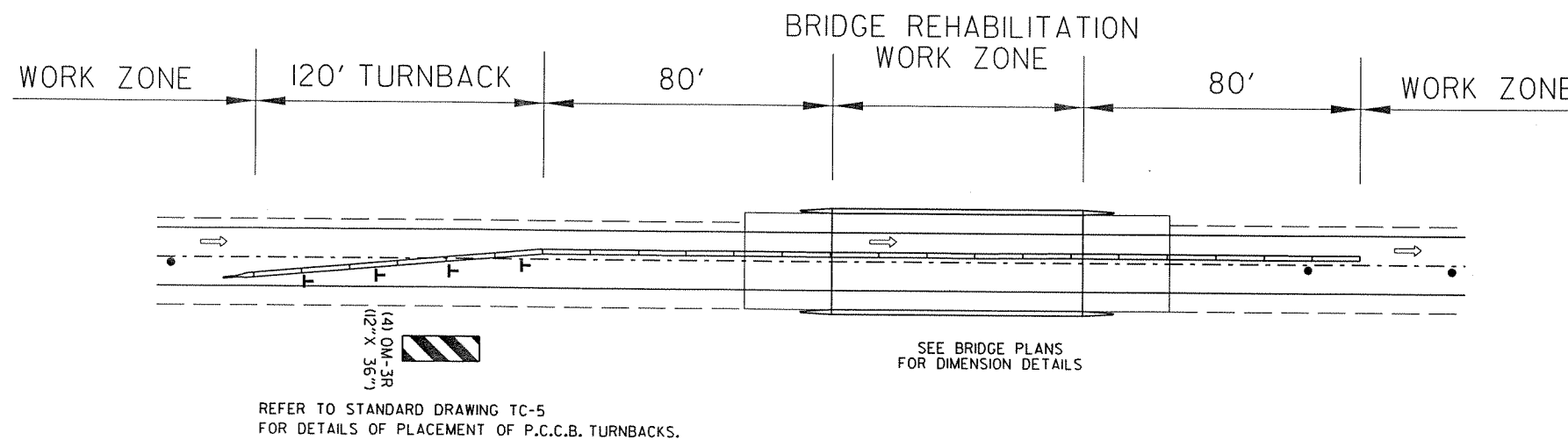
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0403		13	75

② MAINTENANCE OF TRAFFIC



DIVERSION FOR LT. LANE BRIDGE DECK REHABILITATION

1 SET OF THIS NEEDED FOR JOB BB0403.



DIVERSION FOR RT. LANE BRIDGE DECK REHABILITATION

1 SET OF THIS NEEDED FOR JOB BB0403.

NOTE:
 BRIDGE DECK REHABILITATION CAN BE PERFORMED FOLLOWING THE COMPLETION OF MAIN LANE MILL & INLAY OPERATIONS. REFER TO SHEET 9 FOR DETAIL OF TRAFFIC SHIFT USING TRAFFIC DRUMS. REFER TO SHEET 8 FOR SEQUENCE OF CONSTRUCTION DETAILS.

MAINTENANCE OF TRAFFIC DETAILS
 WORK ZONE - BRIDGE DECK REHABILITATION

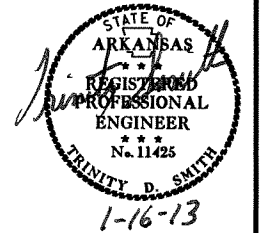
EARTHWORK

STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
		CU. YD.	
1371+45	MEDIAN CROSSOVER (REMOVAL)	115	
1392+23	MEDIAN CROSSOVER	300	500
TOTALS:		415	500

* QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.
NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

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.	BB0403		14	75

2 QUANTITIES



CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	ENTIRE JOB LIN. FT. - EACH	REMOVAL OF PERMANENT PAVEMENT MARKINGS LIN. FT.	CONSTRUCTION PAVEMENT MARKINGS LIN. FT.	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS LIN. FT.	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS LIN. FT.	RAISED PAVEMENT MARKERS	HIGH PERFORMANCE CONTRAST PAVEMENT MARKING	HIGH PERFORMANCE PAVEMENT MARKING		
						TYPE II (WHITE/RED) EACH	4"	4"		8"
							WHITE	YELLOW	WHITE	WHITE
REMOVAL OF PERMANENT PAVEMENT MARKINGS	10304	10304								
CONSTRUCTION PAVEMENT MARKINGS	358694		358694							
REMOVEABLE CONSTRUCTION PAVEMENT MARKINGS	6736			6736						
REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	1628				1628					
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)	2531					2531				
HIGH PERFORMANCE CONTRAST PAVEMENT MARKING WHITE (4")	919						919			
HIGH PERFORMANCE PAVEMENT MARKING YELLOW (4")	152964							152964		
HIGH PERFORMANCE PAVEMENT MARKING WHITE (4")	201279								201279	
HIGH PERFORMANCE PAVEMENT MARKING WHITE (8")	3532									3532
TOTALS:		10304	358694	6736	1628	2531	919	152964	201279	3532

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

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	ENTIRE PROJECT LIN. FT. - EACH	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS EACH	ADVANCED WARNING ARROW PANEL DAY	PORTABLE CHANGEABLE MESSAGE SIGN WEEK	FRUNISHING & INSTALLING PRECAST CONCRETE BARRIER LIN. FT.	RELOCATING PRECAST CONCRETE BARRIER LIN. FT.
					NO.	SQ. FT.					
W20-1	ROAD WORK 1500 FT.	48"x48"	4	4	4	64.0					
W20-1	ROAD WORK 1/2 MILE FT.	48"x48"	4	4	4	64.0					
W20-1	ROAD WORK 1 MILE FT.	48"x48"	4	4	4	64.0					
W20-1	ROAD WORK AHEAD	48"x48"	8	8	8	128.0					
G20-2	END ROAD WORK	48"x24"	8	8	8	64.0					
G20-1	ROAD WORK NEXT XX.X MILES	60"x24"	2	2	2	20.0					
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"	4	4	4	64.0					
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	4	4	4	64.0					
W20-5	RIGHT LANE CLOSED 1500 FT	48"x48"	4	4	4	64.0					
R55-1	FINES DOUBLE IN WORK ZONES	36"x60"	4	4	4	60.0					
SPECIAL	MERGE NOW W/ARROW	48"x48"	4	4	4	64.0					
R2-5A	REDUCED SPEED AHEAD	48"x60"	4	4	4	80.0					
W1-6	LARGE ARROW	48"x24"	9	9	9	72.0					
R1-2	YIELD	60"x60"x60"	2	2	2	21.7					
R4-1	DO NOT PASS	24"x30"	8	8	8	160.0					
R2-1	SPEED LIMIT 60 MPH	48"x60"	4	4	4	80.0					
R2-1	SPEED LIMIT 70 MPH	48"x60"	4	4	4	80.0					
R2-2	TRUCK SPEED LIMIT 65 MPH	48"x60"	4	4	4	80.0					
RSP-1	SHOULDER CLOSED	48"x30"	2	2	2	20.0					
W4-2 RT	MERGE RIGHT	48"x48"	4	4	4	64.0					
OM-3L	OBJECT MARKER	12"x36"	4	4	4	12.0					
OM-3R	OBJECT MARKER	12"x36"	4	4	4	12.0					
	TRAFFIC DRUMS		737	737			737				
	ADVANCE WARNING ARROW PANEL		2	2				140			
	PORTABLE CHANGEABLE MESSAGE SIGN		6	6				120			
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		513	513					513		
	RELOCATING PRECAST CONCRETE BARRIER		4617	4617						4617	
TOTALS:						1401.7	737	140	120	513	4617

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

FLUSHING UNDERDRAIN

STA.	STA.	LOCATION	LIN. FT.
897+36	1179+46	RIGHT MAIN LANES	28210
1182+64	1292+83	RIGHT MAIN LANES	11019
1297+69	1356+02	RIGHT MAIN LANES	5833
1357+78	1507+50	RIGHT MAIN LANES	14972
1508+85	1638+87	RIGHT MAIN LANES	13002
897+36	1179+95	LEFT MAIN LANES	28259
1183+12	1292+83	LEFT MAIN LANES	10971
1297+69	1356+91	LEFT MAIN LANES	5922
1358+66	1508+04	LEFT MAIN LANES	14938
1509+36	1638+39	LEFT MAIN LANES	12903
TOTAL:			146029

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.	BB0403		15	75

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
MAIN LANES				
897+36	1039+14	RIGHT MAIN LANES	30.0	47260.0
1039+14	1046+04	RIGHT MAIN LANES	VAR.	3246.6
1046+04	1067+94	RIGHT MAIN LANES	30.0	7300.0
1067+94	1077+94	RIGHT MAIN LANES	VAR.	4459.9
1077+94	1179+10	RIGHT MAIN LANES	30.0	33720.0
1183+01	1248+98	RIGHT MAIN LANES	30.0	21990.0
1248+98	1255+92	RIGHT MAIN LANES	VAR.	3212.6
1255+92	1281+05	RIGHT MAIN LANES	30.0	8376.7
1281+05	1291+05	RIGHT MAIN LANES	VAR.	4488.5
1291+05	1292+47	RIGHT MAIN LANES	30.0	473.3
1298+06	1355+66	RIGHT MAIN LANES	30.0	19200.0
1358+11	1507+13	RIGHT MAIN LANES	30.0	49673.3
1509+21	1638+51	RIGHT MAIN LANES	30.0	43100.0
INTERCHANGE RAMPS				
1044+21	1049+71	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 1	15.5	947.2
1062+45	1067+95	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 2	15.5	947.2
1068+86	1074+36	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 3	15.5	947.2
1049+49	1054+99	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 4	15.5	947.2
1254+10	1259+60	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 1	15.5	947.2
1275+56	1281+06	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 2	15.5	947.2
1280+25	1285+75	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 3	15.5	947.2
1254+90	1260+40	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 4	15.5	947.2
TOTAL:				500195.10

NOTE: AVERAGE MILLING DEPTH 2". ALL MATERIAL GENERATED IN THE COLD MILLING PROCESS SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.

WIRE ROPE SAFETY FENCE

STATION	STATION	LOCATION	WIRE ROPE SAFETY FENCE	* WRSF ANCHOR	WRSF MAINTENANCE MATERIALS
			LIN. FT.	EACH	LUMP SUM
896+35.95	944+24.99	RIGHT OF LEFT MAIN LANES	4789.04	2	
945+75.04	1056+29.01	LEFT OF RIGHT MAIN LANES	11053.97	2	
1060+29.01	1157+08.51	LEFT OF RIGHT MAIN LANES	9679.50	2	
1161+08.51	1179+49.55	LEFT OF RIGHT MAIN LANES	1841.04	2	
1179+46.12	1264+70.50	LEFT OF RIGHT MAIN LANES	8524.38	2	
1268+70.50	1292+72.15	LEFT OF RIGHT MAIN LANES	2401.65	2	
1297+78.72	1356+17.30	LEFT OF RIGHT MAIN LANES	5838.58	2	
1358+08.75	1378+83.91	LEFT OF RIGHT MAIN LANES	2075.16	2	
ENTIRE PROJECT					1.00
TOTALS:			46203.32	16	1.00

* SHOWN FOR INFORMATION ONLY.

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH	WIDTH	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
			LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
896+35.95	944+24.99	RIGHT OF LEFT MAIN LANES	4789.04	4	2128.46	1064.23	13.41
945+75.04	1056+29.01	LEFT OF RIGHT MAIN LANES	11053.97	4	4912.88	2456.44	30.95
1060+29.01	1157+08.51	LEFT OF RIGHT MAIN LANES	9679.50	4	4302.00	2151.00	27.10
1161+08.51	1179+49.55	LEFT OF RIGHT MAIN LANES	1841.04	4	818.24	409.12	5.15
1179+46.12	1264+70.50	LEFT OF RIGHT MAIN LANES	8524.38	4	3788.61	1894.31	23.87
1268+70.50	1292+72.15	LEFT OF RIGHT MAIN LANES	2401.65	4	1067.40	533.70	6.72
1297+78.72	1356+17.30	LEFT OF RIGHT MAIN LANES	5838.58	4	2594.92	1297.46	16.35
1358+08.75	1378+83.91	LEFT OF RIGHT MAIN LANES	2075.16	4	922.29	461.15	5.81
TOTALS:					20534.80	10267.41	129.36

BASIS OF ESTIMATE:
WATER.....12.8 GAL. / SQ. YD. OF SOLID SODDING.

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL		
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	WATTLE (20")	TRIANGULAR SILT DIKE	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	(E-1) LIN. FT.	LIN. FT.	CU. YD.
ENTIRE PROJECT		MAIN LANES	10.58	21.16	10.58	1079.2	10.58		1525	146
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			2.65	5.30	2.65	270.3	2.65	810	400	15
TOTALS:			13.23	26.46	13.23	1349.5	13.23	810	1925	161

BASIS OF ESTIMATE:
LIME2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
TRIANGULAR SILT DIKE.....25 LIN. FT. / DITCH CHECK
WATTLE DITCH CHECKS.....9 FEET / 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 ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ARE ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

GUARDRAIL

STATION	STATION	LOCATION	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 2)	TERMINAL ANCHOR POST (TYPE 1)
			LIN. FT.	EACH	
941+24.98	946+24.98	LEFT OF RIGHT MAIN LANES	450	1	1
943+74.99	948+74.99	RIGHT OF LEFT MAIN LANES	450	1	1
1055+79.01	1060+79.01	LEFT OF RIGHT MAIN LANES	450	1	1
1057+45.86	1062+45.86	RIGHT OF LEFT MAIN LANES	450	1	1
1156+58.51	1161+58.51	LEFT OF RIGHT MAIN LANES	450	1	1
1159+08.51	1164+08.51	RIGHT OF LEFT MAIN LANES	450	1	1
1264+20.50	1269+20.50	LEFT OF RIGHT MAIN LANES	450	1	1
1266+70.51	1271+70.51	RIGHT OF LEFT MAIN LANES	450	1	1
TOTALS:			3600	8	8

2 QUANTITIES



1/14/2013

BB0403.DGN

QUANTITIES

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0403		16	75

2 QUANTITIES



BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH FEET	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT			ACHM SURFACE COURSE (1/2")					
				TON / STATION	TON	AVG. WIDTH FEET	SQ.YD.	GALLONS / SQ.YD.	GALLON	AVG. WID. FEET	SQ.YD.	POUND / SQ.YD.	PG 76-22 TON	
MAIN LANES														
897+36	1039+14	RIGHT MAIN LANES	14178.0			30.0	47260.0	0.10	4726.0	30.0	47260.0	220.0	5198.6	
1039+14	1046+04	RIGHT MAIN LANES	690.0			VAR.	3246.6	0.10	324.7	VAR.	3246.6	220.0	357.1	
1046+04	1067+94	RIGHT MAIN LANES	2190.0			30.0	7300.0	0.10	730.0	30.0	7300.0	220.0	803.0	
1067+94	1077+94	RIGHT MAIN LANES	1000.0			VAR.	4459.9	0.10	446.0	VAR.	4459.9	220.0	490.6	
1077+94	1179+10	RIGHT MAIN LANES	10116.0			30.0	33720.0	0.10	3372.0	30.0	33720.0	220.0	3709.2	
1183+01	1248+98	RIGHT MAIN LANES	6597.0			30.0	21990.0	0.10	2199.0	30.0	21990.0	220.0	2418.9	
1248+98	1255+92	RIGHT MAIN LANES	694.0			VAR.	3212.6	0.10	321.3	VAR.	3212.6	220.0	353.4	
1255+92	1281+05	RIGHT MAIN LANES	2513.0			30.0	8376.7	0.10	837.7	30.0	8376.7	220.0	921.4	
1281+05	1291+05	RIGHT MAIN LANES	1000.0			VAR.	4488.5	0.10	448.9	VAR.	4488.5	220.0	493.7	
1291+05	1292+47	RIGHT MAIN LANES	142.0			30.0	473.3	0.10	47.3	30.0	473.3	220.0	52.1	
1298+06	1355+66	RIGHT MAIN LANES	5760.0			30.0	19200.0	0.10	1920.0	30.0	19200.0	220.0	2112.0	
1358+11	1507+13	RIGHT MAIN LANES	14902.0			30.0	49673.3	0.10	4967.3	30.0	49673.3	220.0	5464.1	
1509+21	1638+51	RIGHT MAIN LANES	12930.0			30.0	43100.0	0.10	4310.0	30.0	43100.0	220.0	4741.0	
ADDITIONAL FOR RAMP														
897+36	1039+50	LEFT MAIN LANES	14214.0			30.0	47380.0	0.10	4738.0	30.0	47380.0	220.0	5211.8	
1039+50	1049+50	LEFT MAIN LANES	1000.0			VAR.	4478.2	0.10	447.8	VAR.	4478.2	220.0	492.6	
1049+50	1072+53	LEFT MAIN LANES	2303.0			30.0	7676.7	0.10	767.7	30.0	7676.7	220.0	844.4	
1072+53	1078+65	LEFT MAIN LANES	612.0			VAR.	2742.2	0.10	274.2	VAR.	2742.2	220.0	301.6	
1078+65	1179+58	LEFT MAIN LANES	10093.0			30.0	33643.3	0.10	3364.3	30.0	33643.3	220.0	3700.8	
1183+49	1244+92	LEFT MAIN LANES	6143.0			30.0	20476.7	0.10	2047.7	30.0	20476.7	220.0	2252.4	
1244+92	1254+92	LEFT MAIN LANES	1000.0			VAR.	4488.6	0.10	448.9	VAR.	4488.6	220.0	493.7	
1254+92	1283+92	LEFT MAIN LANES	2900.0			30.0	9666.7	0.10	966.7	30.0	9666.7	220.0	1063.3	
1283+92	1291+16	LEFT MAIN LANES	724.0			VAR.	3317.6	0.10	331.8	VAR.	3317.6	220.0	364.9	
1291+16	1292+47	LEFT MAIN LANES	131.0			30.0	436.7	0.10	43.7	30.0	436.7	220.0	48.0	
1298+06	1356+54	LEFT MAIN LANES	5848.0			30.0	19493.3	0.10	1949.3	30.0	19493.3	220.0	2144.3	
1358+99	1508+40	LEFT MAIN LANES	14941.0			30.0	49803.3	0.10	4980.3	30.0	49803.3	220.0	5478.4	
1510+48	1638+02	LEFT MAIN LANES	12754.0			30.0	42513.3	0.10	4251.3	30.0	42513.3	220.0	4676.5	
ADDITIONAL FOR WIDENING FOR GUARDRAIL														
1044+21	1049+71	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 1	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
1062+45	1067+95	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 2	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
1068+86	1074+36	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 3	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
1049+49	1054+99	GEORGIA RIDGE DR. INTERCHANGE (EXIT 20) RAMP 4	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
1254+10	1259+60	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 1	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
1275+56	1281+06	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 2	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
1280+25	1285+75	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 3	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
1254+90	1260+40	N. MAIN ST. INTERCHANGE (EXIT 24) RAMP 4	550.0			15.5	947.2	0.10	94.7	15.5	947.2	220.0	104.2	
ADDITIONAL FOR MEDIAN CROSSOVER														
1392+23		MAIN LANES	20.0	VAR.	199.2					VAR.	272.8	220.0	30.0	
TOTALS:						8306.7		500195.1		50019.5		504480.4		55492.8

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....94.3% MIN. AGGR.....5.7% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 205 FOR PG 76-22

RUMBLE STRIPS IN ASPHALT SHOULDERS

STATION	STATION	LOCATION	* RUMBLE STRIPS IN ASPHALT SHOULDERS LIN.FT.
897+36	1044+21	RIGHT OF RIGHT MAIN LANES	14685
1045+39	1067+94	RIGHT OF RIGHT MAIN LANES	2255
1067+96	1178+97	RIGHT OF RIGHT MAIN LANES	11101
1182+93	1254+09	RIGHT OF RIGHT MAIN LANES	7116
1255+26	1281+05	RIGHT OF RIGHT MAIN LANES	2579
1281+07	1292+47	RIGHT OF RIGHT MAIN LANES	1140
1298+05	1355+43	RIGHT OF RIGHT MAIN LANES	5738
1358+00	1507+13	RIGHT OF RIGHT MAIN LANES	14913
1509+22	1638+51	RIGHT OF RIGHT MAIN LANES	12929
897+36	1179+17	LEFT OF RIGHT MAIN LANES	28181
1183+11	1292+47	LEFT OF RIGHT MAIN LANES	10936
1298+05	1355+79	LEFT OF RIGHT MAIN LANES	5774
1358+31	1507+13	LEFT OF RIGHT MAIN LANES	14882
1509+22	1638+51	LEFT OF RIGHT MAIN LANES	12929
897+36	1179+48	RIGHT OF LEFT MAIN LANES	28212
1183+42	1292+47	RIGHT OF LEFT MAIN LANES	10905
1298+05	1356+36	RIGHT OF LEFT MAIN LANES	5831
1358+88	1507+68	RIGHT OF LEFT MAIN LANES	14880
1509+72	1638+03	RIGHT OF LEFT MAIN LANES	12831
897+36	1049+48	LEFT OF LEFT MAIN LANES	15212
1049+50	1073+19	LEFT OF LEFT MAIN LANES	2369
1074+37	1179+65	LEFT OF LEFT MAIN LANES	10528
1183+61	1254+90	LEFT OF LEFT MAIN LANES	7129
1254+92	1284+59	LEFT OF LEFT MAIN LANES	2967
1285+76	1292+47	LEFT OF LEFT MAIN LANES	671
1298+05	1356+67	LEFT OF LEFT MAIN LANES	5862
1359+23	1507+68	LEFT OF LEFT MAIN LANES	14845
1509+72	1638+02	LEFT OF LEFT MAIN LANES	12830
TOTAL:			290230

* QUANTITY ESTIMATED.
 SEE SECTION 104.03 OF THE STD. SPECS.

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIERS

STATION	LOCATION	EACH
945+00	RIDGE RD. OVERPASS	2
1058+61	GEORGIA RIDGE DR. OVERPASS	2
1160+39	OLD GRAPHIC ST. OVERPASS	2
1267+96	N. MAIN ST. OVERPASS	2
TOTAL:		8

QUANTITIES

1/14/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0403		17	75

① A5110, A5113 - QUANTITIES - 53506
B5113, A5114, B5114

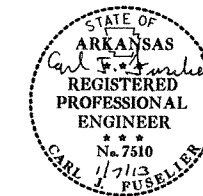
SCHEDULE OF BRIDGE QUANTITIES - JOB BB0403

LOG MILE	UNIT OF STRUCTURE	ITEM NO.	802	803	SS & 804	SP JOB BB0403	SP JOB BB0403	SP JOB BB0403	SP JOB BB0403	SP JOB BB0403
		ITEM	GROOVING	CLASS 3 PROTECTIVE SURFACE TREATMENT	REINFORCING STEEL - BRIDGE (GRADE 60)	HYDRODEMOLITION	BRIDGE DECK REPAIR	VERY EARLY STRENGTH LATEX MODIFIED CONCRETE OVERLAY (1 1/2" THICK)	VERY EARLY STRENGTH LATEX MODIFIED CONCRETE (VARIABLE DEPTH)	SILICONE JOINT SEALANT
		UNIT	SQ. YD.	LIN. FT.	LBS.	SQ. YD.	SQ. FT.	SQ. YD.	CU. YD.	LIN. FT.
25.69	EXISTING BRIDGE NO. A5110		680	340	500	736.4	994	738.0	10.3	114
31.03	EXISTING BRIDGE NO. A5113		754	377	500	816.8	1,103	818.6	11.3	85
31.04	EXISTING BRIDGE NO. B5113		754	377	500	816.8	1,103	818.6	11.3	85
31.51	EXISTING BRIDGE NO. A5114		820	410	500	888.5	1,200	890.4	12.3	85
31.52	EXISTING BRIDGE NO. B5114		820	410	500	888.5	1,200	890.4	12.3	85
TOTALS FOR JOB NO. BB0403			3,828	1,914	2,500 ①	4,147.0	5,600 ①	4,156.0	57.5 ①	454

① This quantity shown is for estimating and bidding purposes only. Actual quantity, if any, will be determined in the field.

PRINT DATE: 07-JAN-2013

JIM TRIBO
DESIGN SECTION SUPERVISOR



BRIDGE ENGINEER

SCHEDULE OF BRIDGE QUANTITIES
DYER - CRAVENS CREEK (S)
CRAWFORD AND FRANKLIN COUNTIES

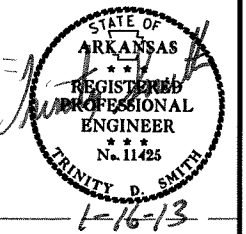
ROUTE 40 SEC. 11 & 12
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: MRE DATE: 12/17/12 FILENAME: bbb0403-ql.dgn
CHECKED BY: [Signature] DATE: 1/7/13 SCALE: NO SCALE
DESIGNED BY: DATE:

BRIDGE NO. A5110, A5113, B5113
A5114, B5114 DRAWING NO. 53506

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. BB0403							19	75

2 PLAN SHEETS



STA. 901+00 IN PLACE
TYPE "H" DROP INLET IN MEDIAN
4' X 6' X H = 4'-0" WITH
24" X 84" PIPE OUTLET
RETAIN

STA. 907+00 IN PLACE
TYPE "H" DROP INLET IN MEDIAN
4' X 6' X H = 4'-0" WITH
24" X 84" PIPE OUTLET
RETAIN

STA. 896+35.95
BEGIN WIRE ROPE SAFETY FENCE

STA. 897+35.95
BEGIN JOB BB0403
BEGIN MILL & INLAY

CENTERLINE
PI = 922+41.09
Δ = 26°14'00" LT.
D = 1°00'00.00"
T = 1335.07'
L = 2623.34'
PC = 909+06.02
PT = 935+29.35

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

1/15/2013

BB0403.DGN

STA. 914+00 IN PLACE
DBL. 10' X 8' X 250' R.C. BOX CULV'T.
TYPE "K" DROP INLET IN MEDIAN
6' X 6' X H = 4'-0"
45° RT. FWD. SKEW
D.A. = 831 AC., C = 1.0
RETAIN

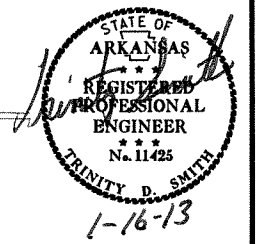
STA. 918+68 IN PLACE
5' X 5' X 178' R.C. BOX CULV'T.
D.A. = 65 AC., C = 1.0
RETAIN

CENTERLINE
PI = 922+41.09
Δ = 26°14'00" LT.
D = 1°00'00.00"
T = 1335.07'
L = 2623.34'
PC = 909+06.02
PT = 935+29.35

STA. 922+00 IN PLACE
TYPE "H" DROP INLET IN MEDIAN
4' X 6' X H = 4'-0" WITH
24" X 86" PIPE OUTLET
RETAIN

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. BB0403	20	75

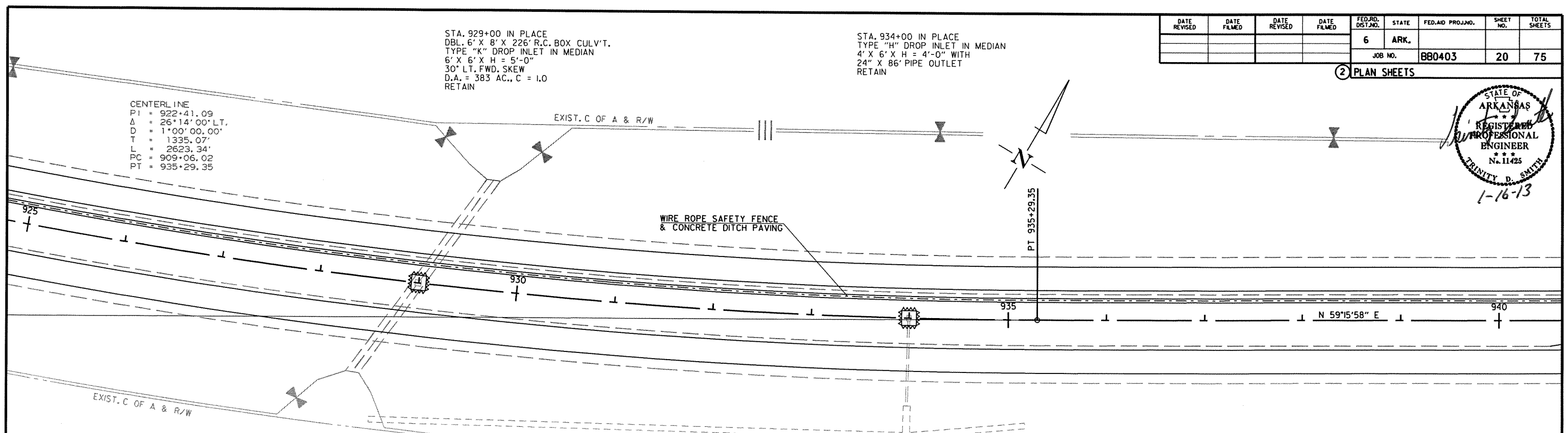
2 PLAN SHEETS



STA. 929+00 IN PLACE
 DBL. 6' X 8' X 226' R.C. BOX CULV'T.
 TYPE "K" DROP INLET IN MEDIAN
 6' X 6' X H = 5'-0"
 30" LT. FWD. SKEW
 D.A. = 383 AC., C = 1.0
 RETAIN

STA. 934+00 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' X 6' X H = 4'-0" WITH
 24" X 86" PIPE OUTLET
 RETAIN

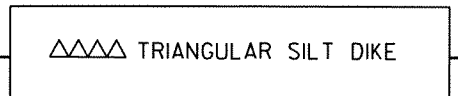
CENTERLINE
 P1 = 922+41.09
 Δ = 26°14'00" LT.
 D = 1°00'00.00"
 T = 1335.07'
 L = 2623.34'
 PC = 909+06.02
 PT = 935+29.35



TEMPORARY EROSION CONTROL REVISIONS

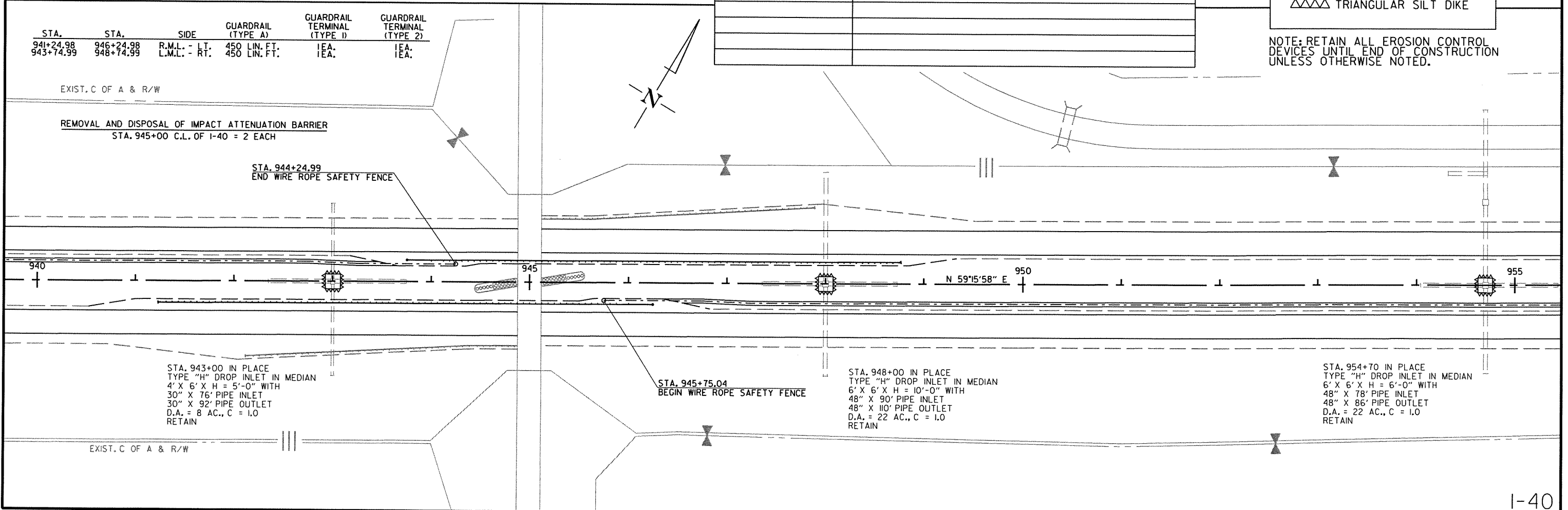
DATE OF REVISION	REVISION

LEGEND



NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
941+24.98	946+24.98	R.M.L. - LT.	450 LIN. FT.	IEA.	IEA.
943+74.99	948+74.99	L.M.L. - RT.	450 LIN. FT.	IEA.	IEA.



EXIST. C OF A & R/W

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
 STA. 945+00 C.L. OF I-40 = 2 EACH

STA. 944+24.99
 END WIRE ROPE SAFETY FENCE

STA. 945+75.04
 BEGIN WIRE ROPE SAFETY FENCE

STA. 943+00 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' X 6' X H = 5'-0" WITH
 30" X 76" PIPE INLET
 30" X 92" PIPE OUTLET
 D.A. = 8 AC., C = 1.0
 RETAIN

STA. 948+00 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 6' X 6' X H = 10'-0" WITH
 48" X 90" PIPE INLET
 48" X 110" PIPE OUTLET
 D.A. = 22 AC., C = 1.0
 RETAIN

STA. 954+70 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 6' X 6' X H = 6'-0" WITH
 48" X 78" PIPE INLET
 48" X 86" PIPE OUTLET
 D.A. = 22 AC., C = 1.0
 RETAIN

1/15/2013

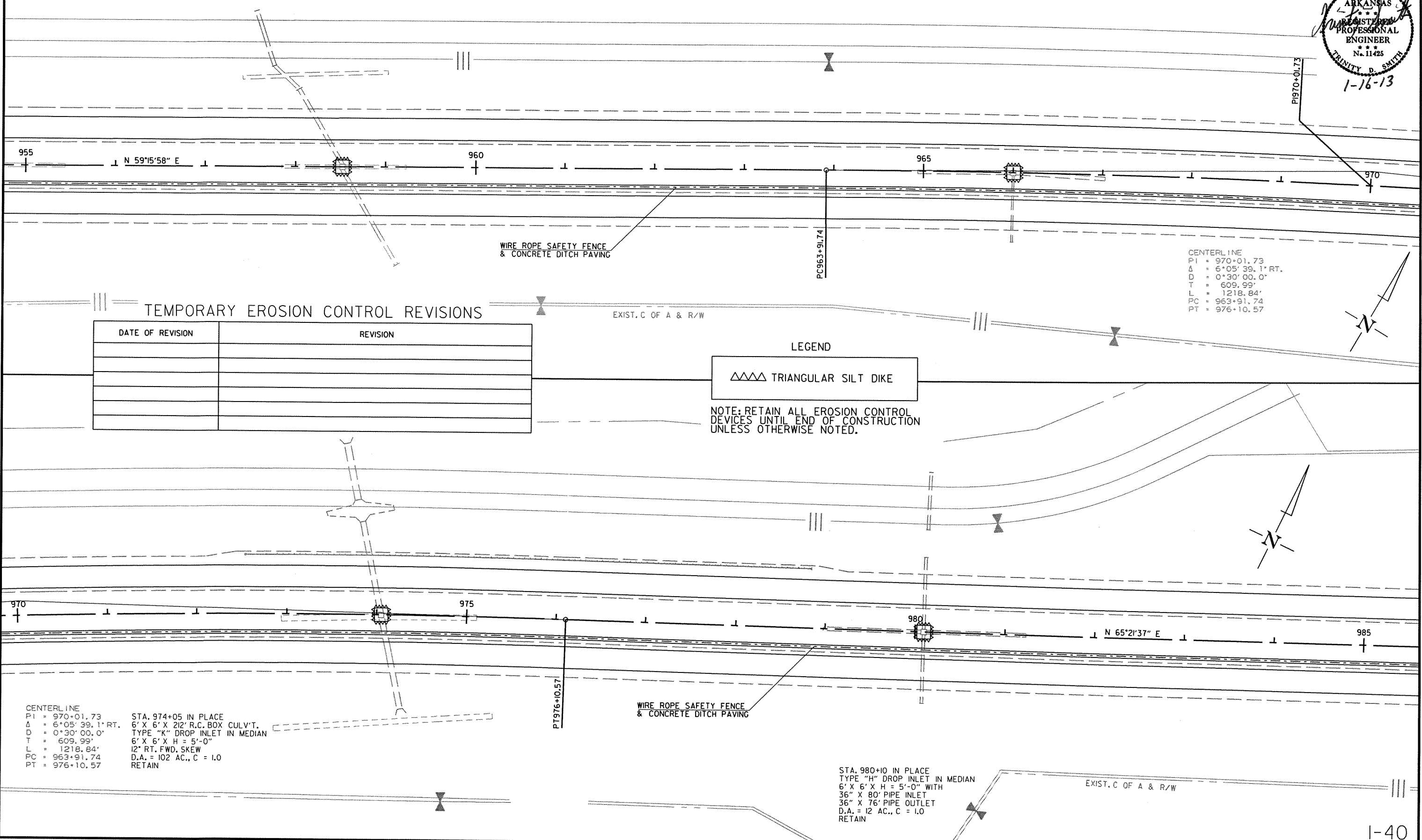
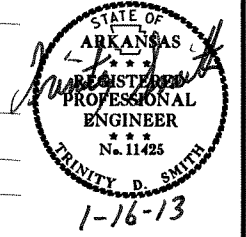
RB00403.DGN

STA. 958+52 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 6' X 6' X H = 9'-3" WITH
 48" X 96" PIPE INLET
 48" X 122" PIPE OUTLET
 30° RT. FWD. SKEW
 D.A. = 23 AC., C = 1.0
 RETAIN

STA. 966+00 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' X 6' X H = 4'-0" WITH
 24" X 74" PIPE OUTLET
 RETAIN

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. BB0403							21	75

2 PLAN SHEETS



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

CENTERLINE
 PI = 970+01.73
 Δ = 6°05'39.1" RT.
 D = 0°30'00.0"
 T = 609.99'
 L = 1218.84'
 PC = 963+91.74
 PT = 976+10.57

CENTERLINE
 PI = 970+01.73
 Δ = 6°05'39.1" RT.
 D = 0°30'00.0"
 T = 609.99'
 L = 1218.84'
 PC = 963+91.74
 PT = 976+10.57

STA. 974+05 IN PLACE
 6' X 6' X 212' R.C. BOX CULV'T.
 TYPE "K" DROP INLET IN MEDIAN
 6' X 6' X H = 5'-0"
 12° RT. FWD. SKEW
 D.A. = 102 AC., C = 1.0
 RETAIN

STA. 980+10 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 6' X 6' X H = 5'-0" WITH
 36" X 80' PIPE INLET
 36" X 76" PIPE OUTLET
 D.A. = 12 AC., C = 1.0
 RETAIN

1/15/2013
 RB0403.DGN

STA. 987+30 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 6' X 6' X H = 6'-3" WITH
 48" X 76' PIPE INLET
 48" X 80' PIPE OUTLET
 D.A. = 25 AC., C = 1.0
 RETAIN

STA. 994+10 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' X 6' X H = 4'-6" WITH
 24" X 82' PIPE OUTLET
 RETAIN

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. BB0403							22	75

2 PLAN SHEETS



STA. 999+10 IN PLACE
 DBL. 10' X 10' X 314' R.C. BOX CULV'T.
 TYPE "K" DROP INLET IN MEDIAN
 5' X 5' X H = 10'-0"
 45° RT. FWD. SKEW
 D.A. = 966 AC., C = 1.0
 SPAN 32.06'
 RETAIN

EXIST. C OF A & R/W

985

990

N 65°21'37" E

995

1000

WIRE ROPE SAFETY FENCE
 & CONCRETE DITCH PAVING

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

EXIST. C OF A & R/W

1000

N 65°21'37" E

1005

1010

1015

STA. 1004+60 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 6' X 6' X H = 13'-0" WITH
 36" X 94' PIPE INLET
 36" X 150' PIPE OUTLET
 30° LT. FWD. SKEW
 "L" HEADWALL ON LT.
 D.A. = 13 AC., C = 1.0
 RETAIN

WIRE ROPE SAFETY FENCE
 & CONCRETE DITCH PAVING

STA. 1012+91 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 6' X 6' X H = 10'-0" WITH
 42" X 94' PIPE INLET
 42" X 106' PIPE OUTLET
 30° LT. FWD. SKEW
 D.A. = 20 AC., C = 1.0
 JUNCTION BOX LT. WITH
 18" X 24' STUB INLET
 RETAIN

EXIST. C OF A & R/W

STA. 1008+58 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' X 6' X H = 4'-0" WITH
 24" X 78' PIPE OUTLET
 RETAIN

STA. 1009+97 IN PLACE
 4' X 6' X 242' R.C. BOX CULV'T.
 D.A. = 64 AC., C = 1.0
 RETAIN

1/15/2013

RB0403.DCN

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.	BB0403		23	75

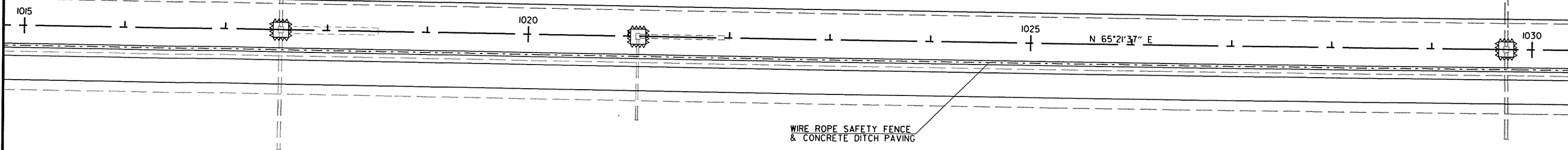
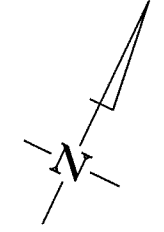
2 PLAN SHEETS



EXIST. C OF A & R/W

STA. 1017+54 IN PLACE
 TYPE "H" DROP INLET TO LEFT
 5' x 6' x H = 6'-0" WITH
 36" x 66' PIPE INLET
 TYPE "H" DROP INLET IN MEDIAN
 5' x 6' x H = 6'-0" WITH
 36" x 90' PIPE INLET
 36" x 116' PIPE OUTLET
 D.A. = 12 AC., C = 1.0
 RETAIN

STA. 1021+09 IN PLACE
 TYPE "H" DROP INLET TO LEFT
 4' x 6' x H = 5'-0" WITH
 24" x 102' PIPE INLET
 TYPE "H" DROP INLET IN MEDIAN
 4' x 6' x H = 4'-6" WITH
 24" x 90' PIPE INLET
 24" x 80' PIPE OUTLET
 RETAIN

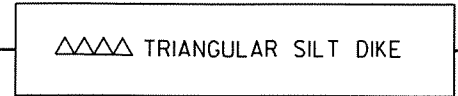


WIRE ROPE SAFETY FENCE
 & CONCRETE DITCH PAVING

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

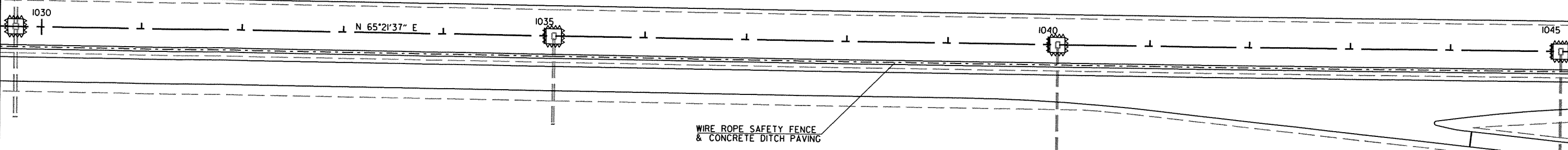
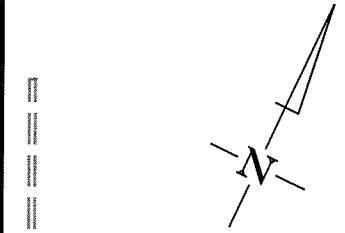
LEGEND



NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

EXIST. C OF A & R/W

EXIST. C OF A & R/W



WIRE ROPE SAFETY FENCE
 & CONCRETE DITCH PAVING

STA. 1029+75 IN PLACE
 TYPE "H" DROP INLET TO LEFT
 5' x 6' x H = 6'-3" WITH
 36" x 100' PIPE INLET
 TYPE "H" DROP INLET IN MEDIAN
 5' x 6' x H = 6'-9" WITH
 36" x 90' PIPE INLET
 36" x 86' PIPE OUTLET W/STEEL GRATE ASSEMBLY
 RETAIN

STA. 1035+10 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' x 6' x H = 4'-6" WITH
 24" x 84' PIPE OUTLET W/STEEL GRATE ASSEMBLY
 RETAIN

STA. 1040+09 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' x 6' x H = 4'-0" WITH
 18" x 170' PIPE OUTLET
 RETAIN

STA. 1045+09 IN PLACE
 TYPE "H" DROP INLET IN MEDIAN
 4' x 6' x H = 4'-6" WITH
 18" x 202' PIPE OUTLET
 RETAIN

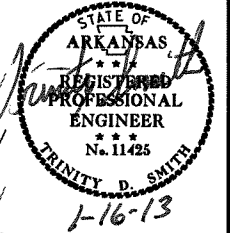
1/15/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0403							24	75

2 PLAN SHEETS

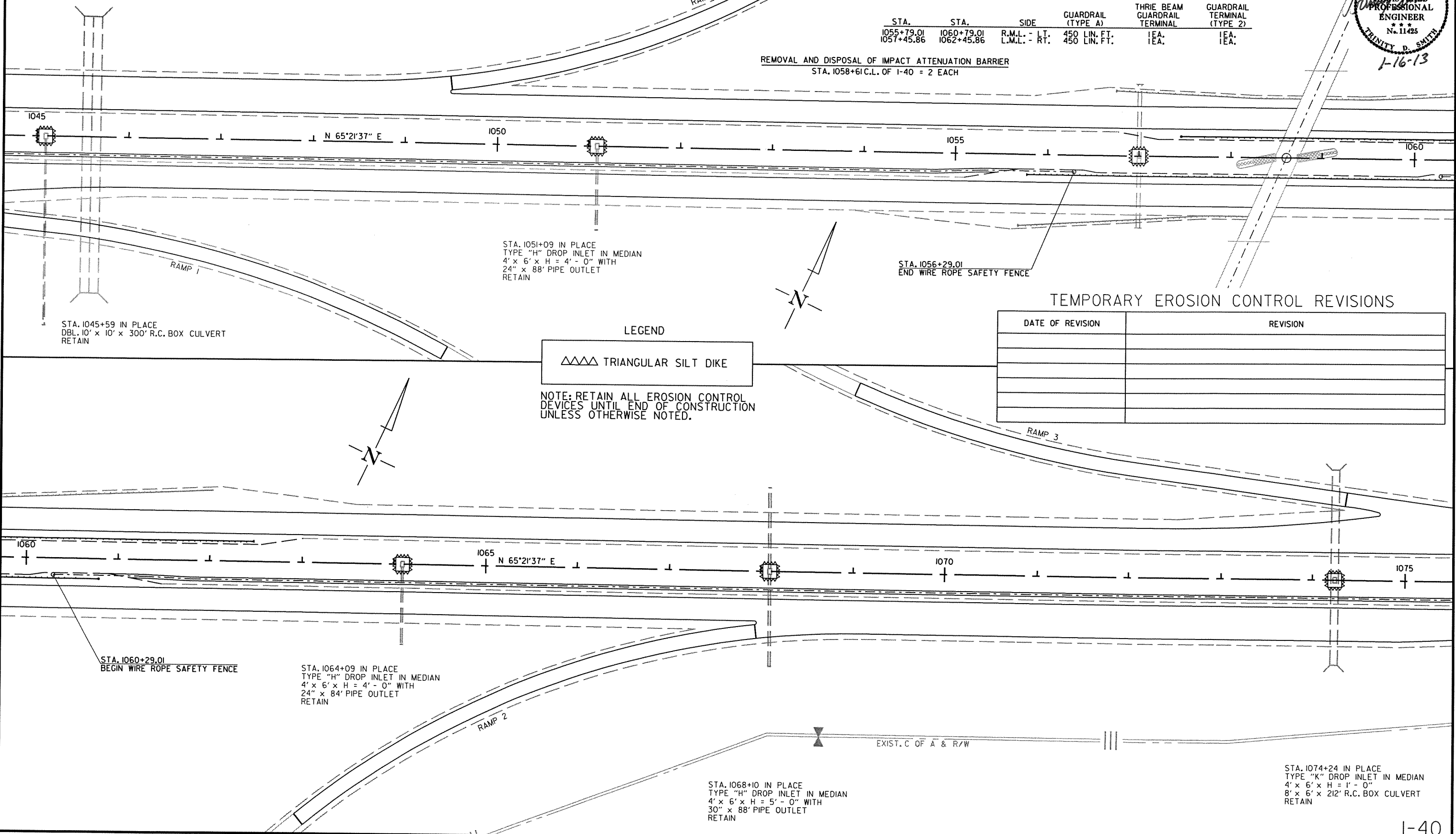
STA. 1057+00 IN PLACE
 TYPE "K" DROP INLET IN MEDIAN
 4' x 6' x H = 4' - 0" WITH
 4' x 4' x 156' R.C. BOX CULV'T
 RETAIN



STA.	STA.	SIDE	GUARDRAIL (TYPE A)	THREE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
1055+79.01	1060+79.01	R.M.L. - LT.	450 LIN. FT.	1EA.	1EA.
1057+45.86	1062+45.86	L.M.L. - RT.	450 LIN. FT.	1EA.	1EA.

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
 STA. 1058+61 C.L. OF I-40 = 2 EACH

EXIST. C OF A & R/W



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

1/15/2013

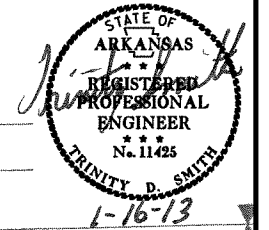
RBB0403.DGN

CENTERLINE
 PI = 1080+09.34
 Δ = 4°15'58.90" LT.
 D = 0°30'00"
 T = 426.83
 L = 853.27
 PC = 1075+82.51
 PT = 1084+35.78

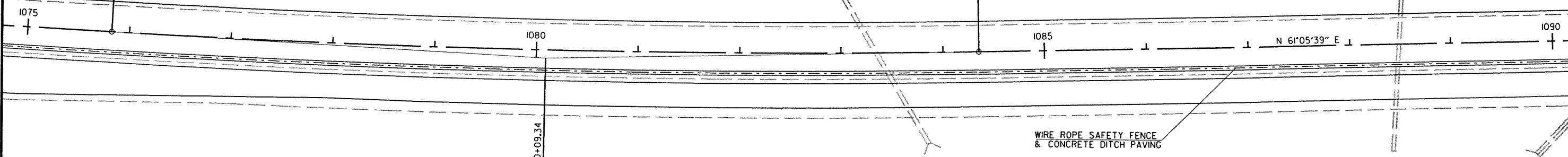
STA. 1083+34.107' LEFT
 4' x 6' R.C. BOX CULVERT IN PLACE (M.L.)
 4' x 6' R.C. BOX CULVERT IN PLACE (FRNT. RD)
 4' x 6' x 52' R.C. BOX EXTENSION
 18" x 32" R.C. STUB INLETS
 W/STEEL GRATE ASSEMBLY (TYPE 2)
 RETAIN

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. BB0403							25	75

2 PLAN SHEETS



STA. 1088+49 IN PLACE
 42" x 294' PIPE OUTLET
 4' LT. FWD. SKEW
 RETAIN

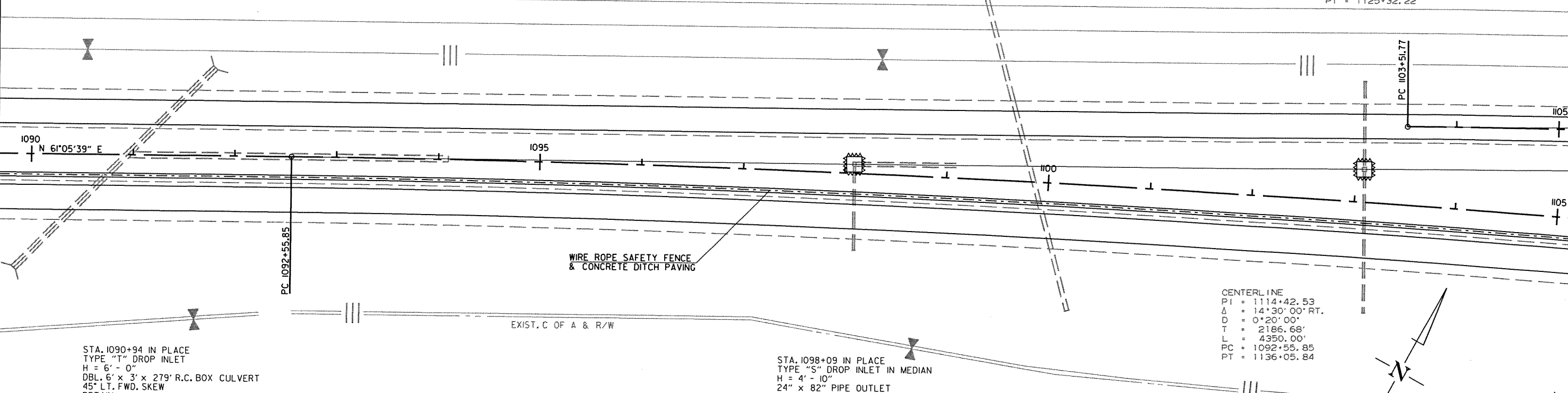


TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND
 ▲▲▲ TRIANGULAR SILT DIKE
 NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

WESTBOUND LANES CENTERLINE
 PI = 1114+47.85
 Δ = 14°30'00.1" RT.
 D = 0°39'54.0"
 T = 1096.08'
 L = 2180.45'
 PC = 1103+51.77
 PT = 1125+32.22



CENTERLINE
 PI = 1114+42.53
 Δ = 14°30'00" RT.
 D = 0°20'00"
 T = 2186.68'
 L = 4350.00'
 PC = 1092+55.85
 PT = 1136+05.84

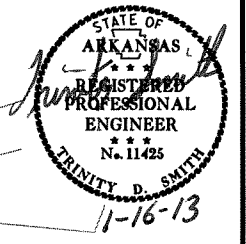
STA. 1090+94 IN PLACE
 TYPE "T" DROP INLET
 H = 6' - 0"
 DBL. 6' x 3' x 279' R.C. BOX CULVERT
 45° LT. FWD. SKEW
 RETAIN

STA. 1098+09 IN PLACE
 TYPE "S" DROP INLET IN MEDIAN
 H = 4' - 10"
 24" x 82" PIPE OUTLET
 RETAIN

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 RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 880403							26	75

2 PLAN SHEETS



STA. III+08 RT. IN PLACE
24" x 120" R.C. PIPE CULVERT
30° RT. FWD. SKEW
RETAIN

STA. III+91 RT. IN PLACE
24" x 120" R.C. PIPE CULVERT
30° RT. FWD. SKEW
RETAIN

WESTBOUND LANES CENTERLINE
PI = 1114+47.85
Δ = 14°30'00.1" RT.
D = 0°39'54.0"
T = 1096.08'
L = 2180.45'
PC = 1103+51.77
PT = 1125+32.22

CENTERLINE
PI = 1114+42.53
Δ = 14°30'00" RT.
D = 0°20'00"
T = 2186.68'
L = 4350.00'
PC = 1092+55.85
PT = 1136+05.84

STA. III8+99 RT. IN PLACE
24" x 120" R.C. PIPE CULVERT
RETAIN

TEMPORAY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

WESTBOUND LANES CENTERLINE
PI = 1114+47.85
Δ = 14°30'00.1" RT.
D = 0°39'54.0"
T = 1096.08'
L = 2180.45'
PC = 1103+51.77
PT = 1125+32.22

PT. II25+32.22 BACK =
STA. II25+14.04 AHD.

CENTERLINE
PI = 1114+42.53
Δ = 14°30'00" RT.
D = 0°20'00"
T = 2186.68'
L = 4350.00'
PC = 1092+55.85
PT = 1136+05.84

STA. II25+22 IN PLACE
TYPE "T" DROP INLET
H = 0' - 6"
DBL. 10' x 6' x 234' R.C. BOX CULVERT
RETAIN

STA. II28+97 RT. IN PLACE
24" x 64" R.C. PIPE CULVERT
W/STEEL GRATE ASSEMBLY (LT. & RT.)
RETAIN

WIRE ROPE SAFETY FENCE
& CONCRETE DITCH PAVING

EXIST. C OF A & R/W

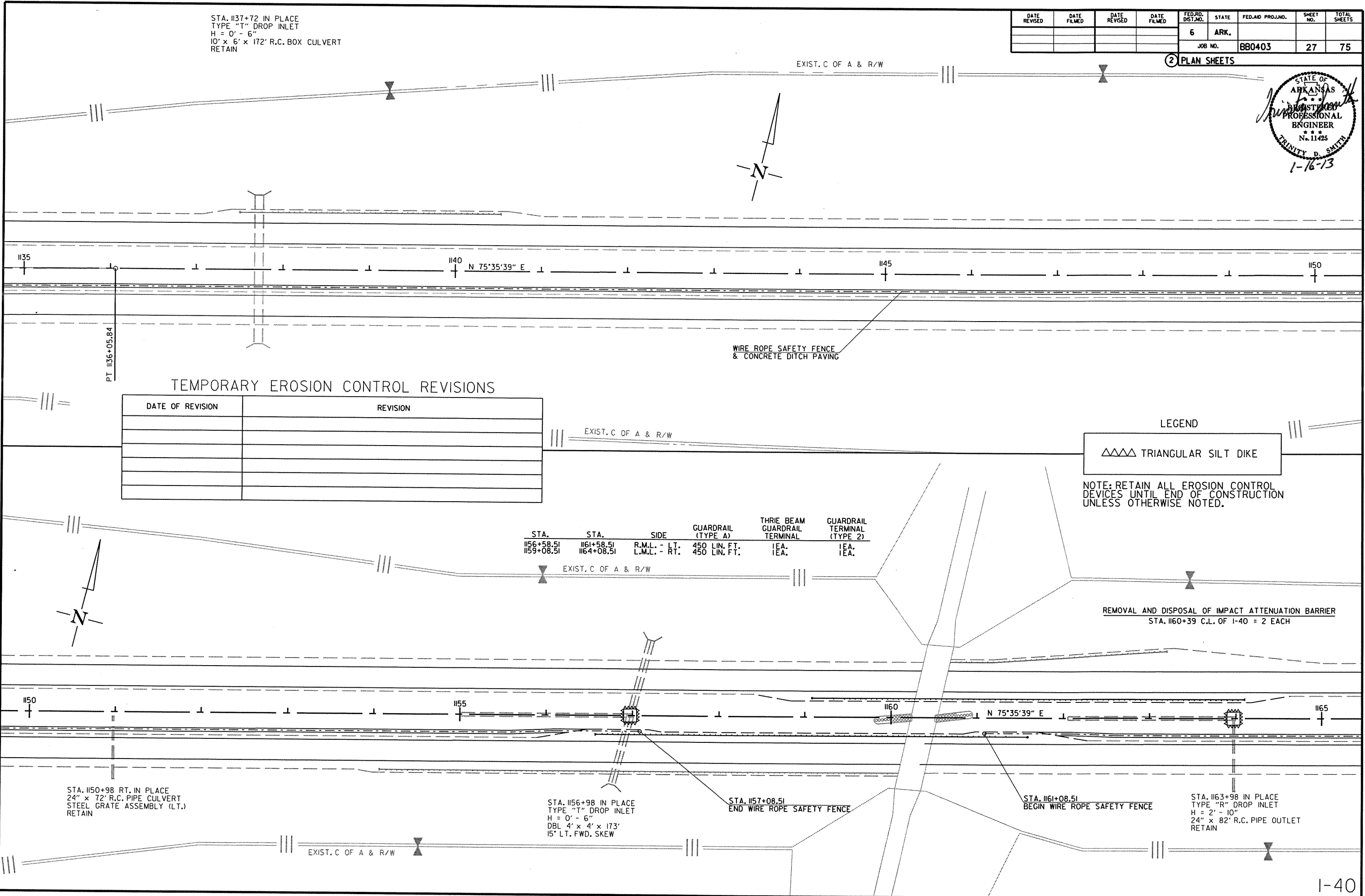
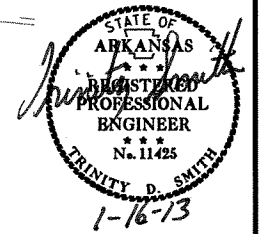
1/15/2013

880403.DGN

STA. 1137+72 IN PLACE
 TYPE "T" DROP INLET
 H = 0' - 6"
 10' x 6' x 172' R.C. BOX CULVERT
 RETAIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		27	75
				JOB NO. 880403				

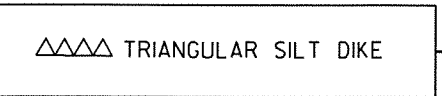
2 PLAN SHEETS



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND



NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	THREE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
1156+58.51	1161+58.51	R.M.L. - LT.	450 LIN. FT.	1EA.	1EA.
1159+08.51	1164+08.51	L.M.L. - RT.	450 LIN. FT.	1EA.	1EA.

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
 STA. 1160+39 C.L. OF I-40 = 2 EACH

STA. 1150+98 RT. IN PLACE
 24" x 72" R.C. PIPE CULVERT
 STEEL GRATE ASSEMBLY (LT.)
 RETAIN

STA. 1156+98 IN PLACE
 TYPE "T" DROP INLET
 H = 0' - 6"
 DBL 4' x 4' x 173'
 15° LT. FWD. SKEW

STA. 1157+08.51
 END WIRE ROPE SAFETY FENCE

STA. 1161+08.51
 BEGIN WIRE ROPE SAFETY FENCE

STA. 1163+98 IN PLACE
 TYPE "R" DROP INLET
 H = 2' - 10"
 24" x 82" R.C. PIPE OUTLET
 RETAIN

1/15/2013

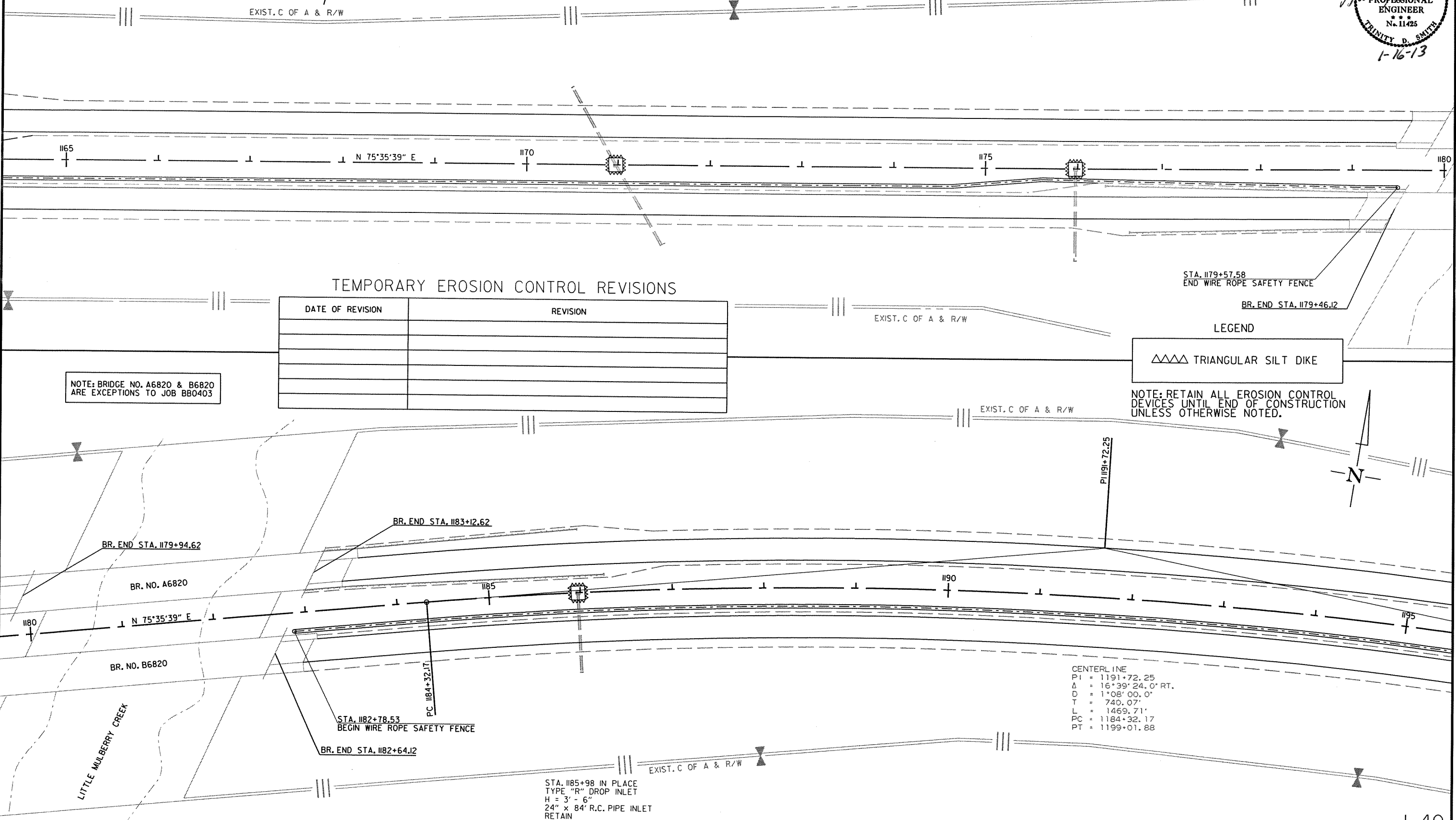
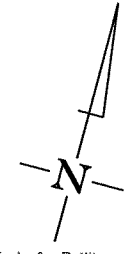
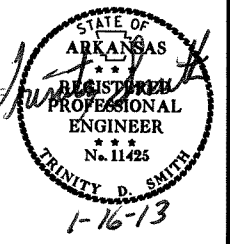
880403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0403		28	75

STA. 1170+98 IN PLACE
 24" x 94' R.C. PIPE INLET
 TYPE "R" DROP INLET
 H = 3' - 0"
 24" x 98' R.C. PIPE OUTLET
 30° RT. FWD SKEW
 RETAIN

STA. 1175+98 IN PLACE
 TYPE "R" DROP INLET
 H = 2' - 10"
 24" x 98' R.C. PIPE OUTLET
 RETAIN

2 PLAN SHEETS



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

NOTE: BRIDGE NO. A6820 & B6820 ARE EXCEPTIONS TO JOB BB0403

LEGEND

▲▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

CENTERLINE
 PI = 1191+72.25
 Δ = 16°39'24.0" RT.
 D = 1°08'00.0"
 T = 740.07'
 L = 1469.71'
 PC = 1184+32.17
 PT = 1199+01.88

STA. 1185+98 IN PLACE
 TYPE "R" DROP INLET
 H = 3' - 6"
 24" x 84' R.C. PIPE INLET
 RETAIN

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BB0403.DGN

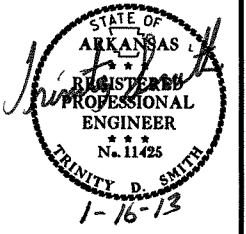
STA. 1195+97 IN PLACE
 TYPE "R" DROP INLET
 H = 6' - 3"
 24" x 82' R.C. PIPE OUTLET
 RETAIN

STA. 1201+22 IN PLACE
 30" x 258' R.C. PIPE INLET
 30° RT. FWD. SKEW
 RETAIN

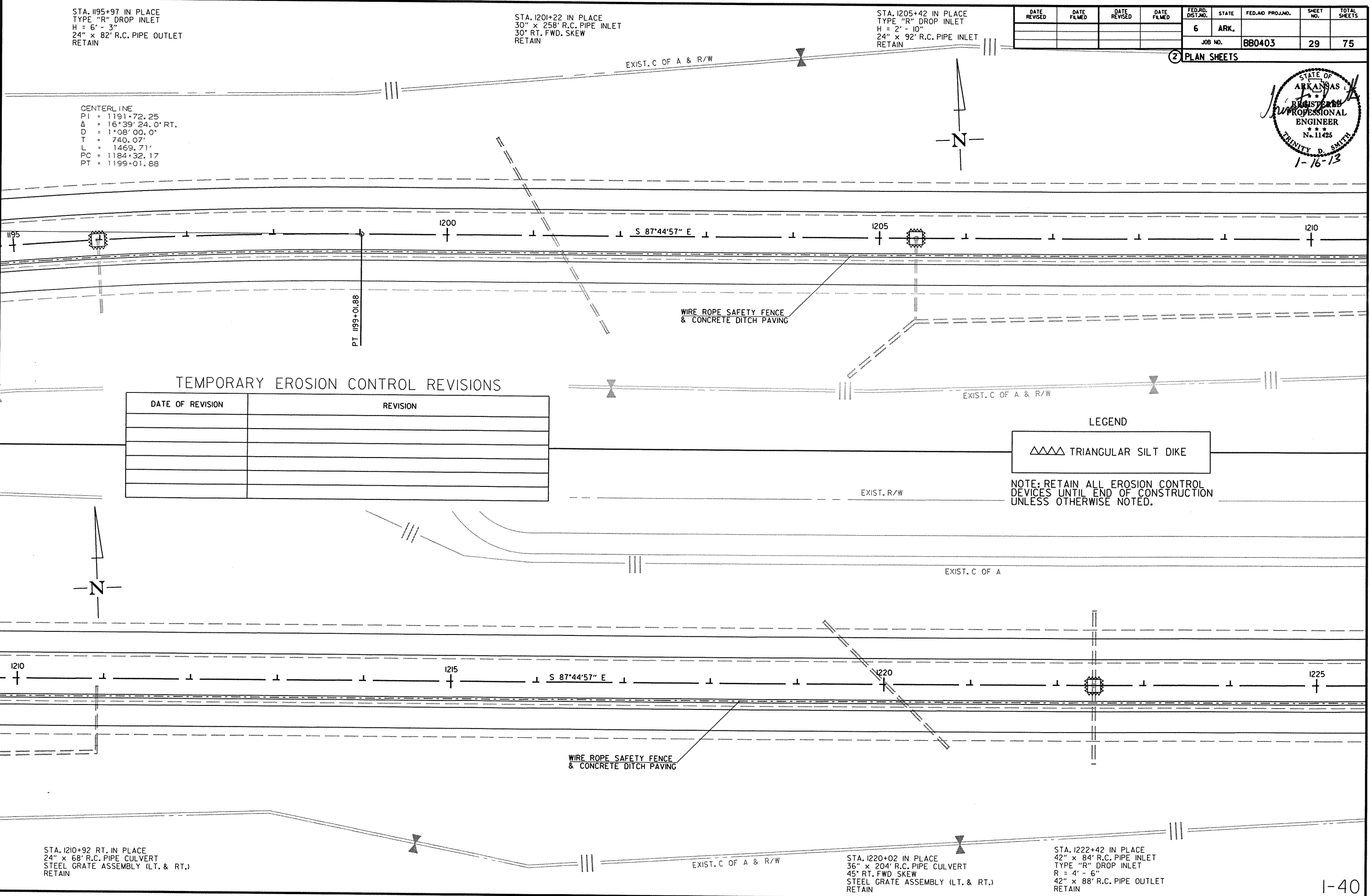
STA. 1205+42 IN PLACE
 TYPE "R" DROP INLET
 H = 2' - 10"
 24" x 92' R.C. PIPE INLET
 RETAIN

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. BB0403		29	75	

2 PLAN SHEETS



CENTERLINE
 PI = 1191+72.25
 Δ = 16°39'24.0" RT.
 D = 1'08'00.0"
 T = 740.07'
 L = 1469.71'
 PC = 1184+32.17
 PT = 1199+01.88



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

△△△ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

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BB0403.DGN

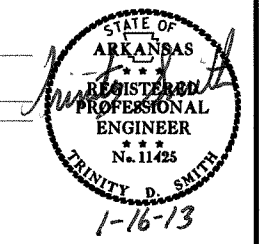
STA. 1210+92 RT. IN PLACE
 24" x 68' R.C. PIPE CULVERT
 STEEL GRATE ASSEMBLY (LT. & RT.)
 RETAIN

STA. 1220+02 IN PLACE
 36" x 204' R.C. PIPE CULVERT
 45° RT. FWD SKEW
 STEEL GRATE ASSEMBLY (LT. & RT.)
 RETAIN

STA. 1222+42 IN PLACE
 42" x 84' R.C. PIPE INLET
 TYPE "R" DROP INLET
 R = 4' - 6"
 42" x 88' R.C. PIPE OUTLET
 RETAIN

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				6	ARK.			
				JOB NO.	B80403		30	75

2 PLAN SHEETS



STA. 1237+42 IN PLACE
 30" x 80' R.C. PIPE INLET
 TYPE "R" DROP INLET IN MEDIAN
 3' x 4' x H = 3' - 4"
 30" x 74' R.C. PIPE OUTLET
 STEEL GRATE ASSEMBLY (L.T. & RT.)
 RETAIN

EXIST. R/W

EXIST. C OF A



WIRE ROPE SAFETY FENCE
& CONCRETE DITCH PAVING

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

EXIST. R/W

EXIST. C OF A & R/W

SLATE HILL CUTOFF

EXIST. C OF A



WIRE ROPE SAFETY FENCE
& CONCRETE DITCH PAVING

EXIST. C OF A & R/W

STA. 1244+42 IN PLACE
 DBL. 10' X 8' X 208' R.C. BOX CULV'T.
 TYPE "T" DROP INLET IN MEDIAN
 H = 2'-0"
 30° RT. FWD. SKEW
 D.A. = 1050 AC., C = 0.8
 RETAIN

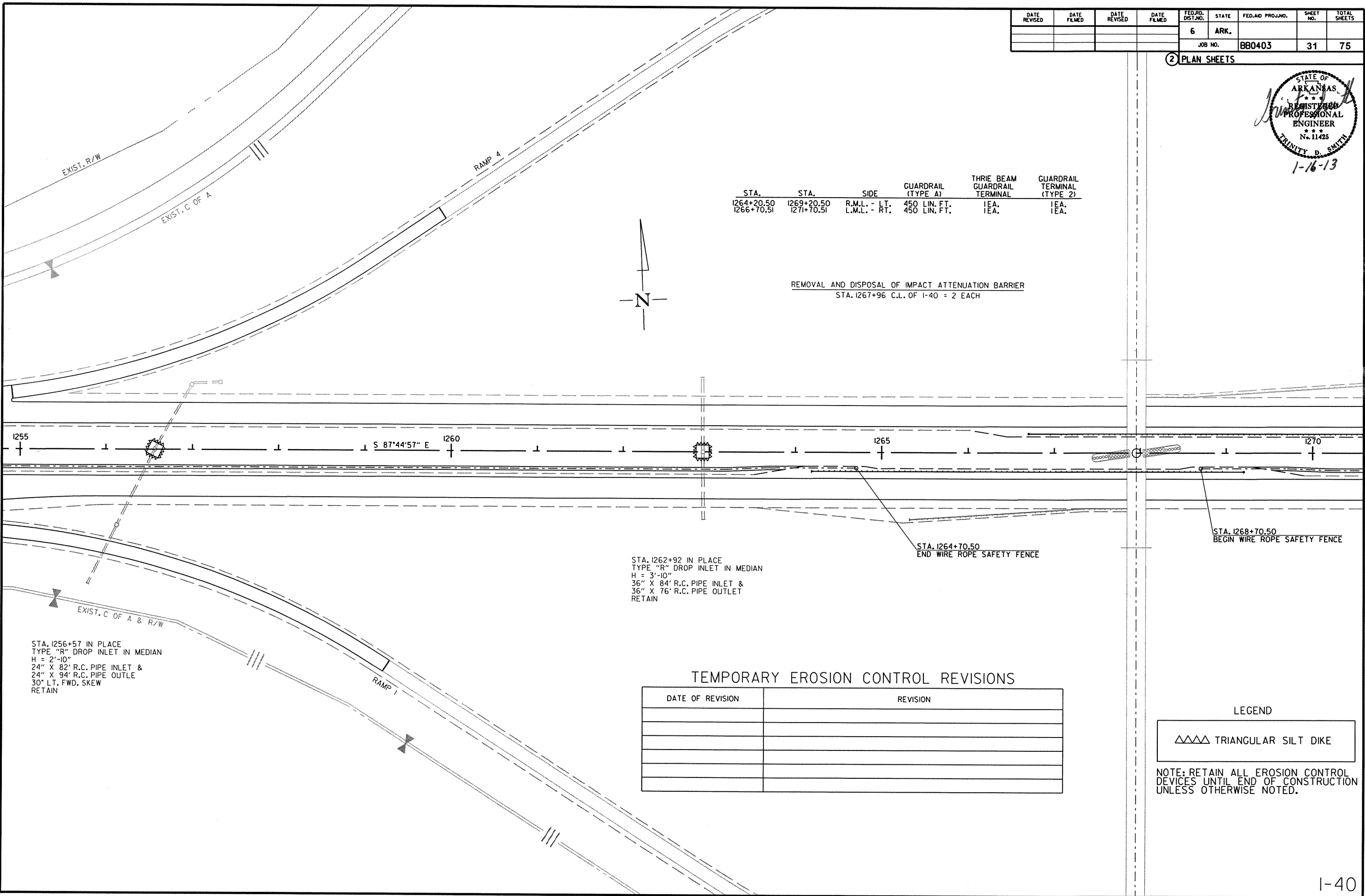
STA. 1248+92 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 H = 2'-10"
 24" X 84' R.C. PIPE CULV'T.
 RETAIN

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0403		31	75

2 PLAN SHEETS



STA.	STA.	SIDE	GUARDRAIL (TYPE A)	THREE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
1264+20.50	1269+20.50	R.M.L. - LT.	450 LIN. FT.	1EA.	1EA.
1266+70.51	1271+70.51	L.M.L. - RT.	450 LIN. FT.	1EA.	1EA.

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
 STA. 1267+96 C.L. OF I-40 = 2 EACH

STA. 1262+92 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 H = 3'-10"
 36" X 84" R.C. PIPE INLET &
 36" X 76" R.C. PIPE OUTLET
 RETAIN

STA. 1256+57 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 H = 2'-10"
 24" X 82" R.C. PIPE INLET &
 24" X 94" R.C. PIPE OUTLET
 30° LT. FWD. SKEW
 RETAIN

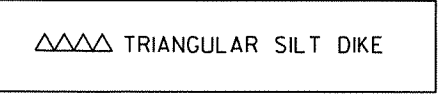
STA. 1264+70.50
 END WIRE ROPE SAFETY FENCE

STA. 1268+70.50
 BEGIN WIRE ROPE SAFETY FENCE

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND



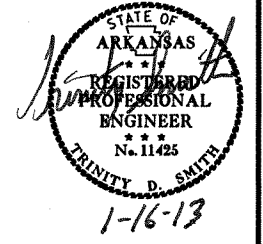
NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

1/15/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	B80403		32	75

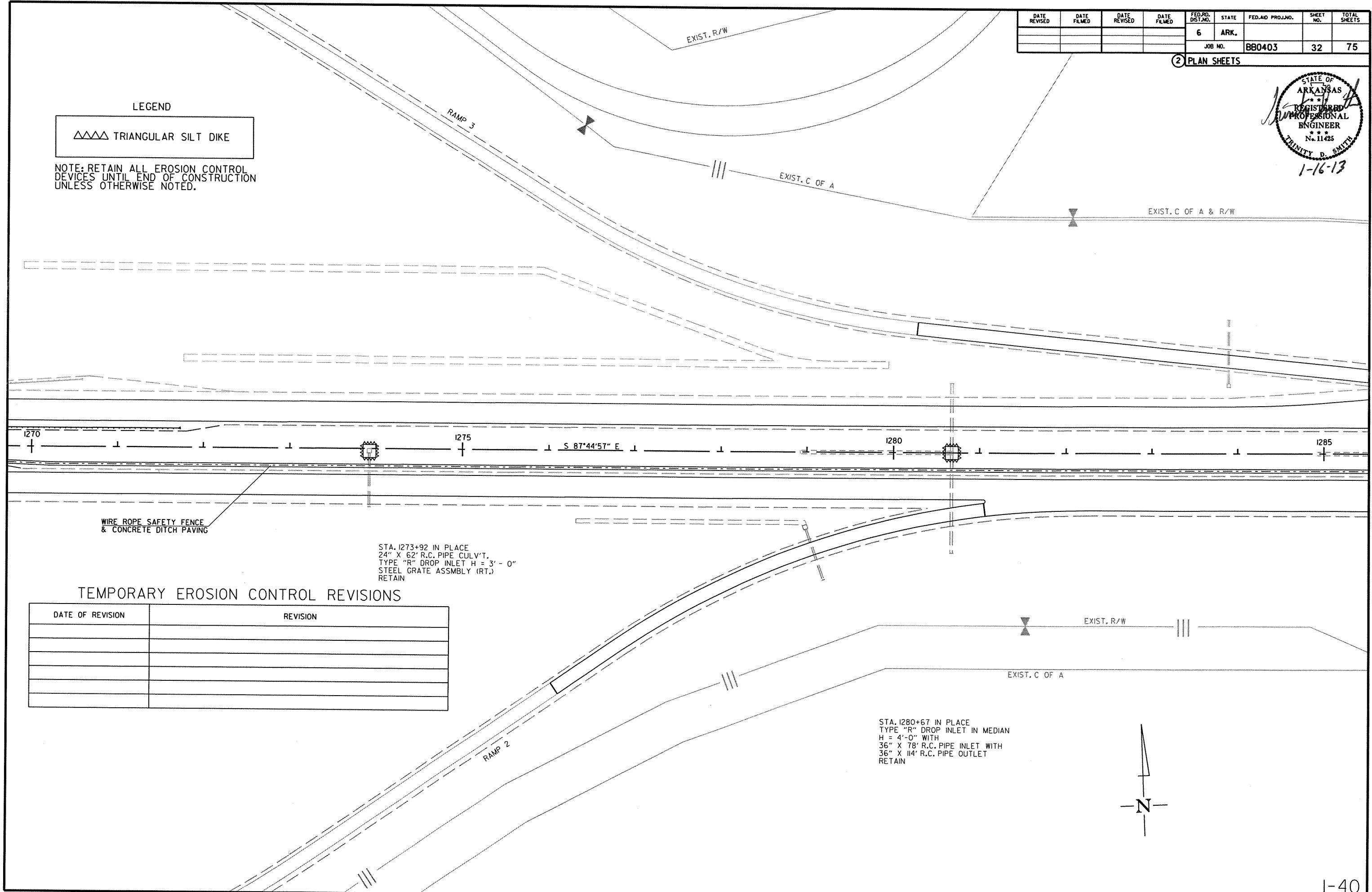
2 PLAN SHEETS



LEGEND

△△△ TRIANGULAR SILT DIKE

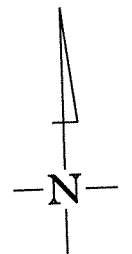
NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.



WIRE ROPE SAFETY FENCE & CONCRETE DITCH PAVING

STA. 1273+92 IN PLACE
24" X 62" R.C. PIPE CULV'T.
TYPE "R" DROP INLET H = 3' - 0"
STEEL GRATE ASSMBLY (RT.)
RETAIN

STA. 1280+67 IN PLACE
TYPE "R" DROP INLET IN MEDIAN
H = 4'-0" WITH
36" X 78" R.C. PIPE INLET WITH
36" X 114" R.C. PIPE OUTLET
RETAIN



TEMPORARY EROSION CONTROL REVISIONS

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STA. 1285+92 IN PLACE
TYPE "R" DROP INLET IN MEDIAN
H = 2'-3" WITH
18" X 116' PIPE OUTLET
RETAIN

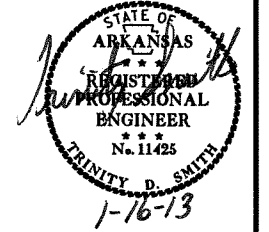
EXIST. C OF A & R/W

STA. 1290+92 IN PLACE
TYPE "R" DROP INLET H 2' - 3"
18" X 134' R.C. PIPE OUTLET
RETAIN

NOTE: BRIDGE NO. A5109 & B5109
ARE EXCEPTIONS TO JOB BBO403

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. BBO403							33	75

2 PLAN SHEETS



BR. END STA. 1292+83.15

BR. END STA. 1297+69.15

BR. NO. A5109

BR. NO. B5109

1285

S 87°44'57" E

1290

1295

1300

STA. 1292+73.15
END WIRE ROPE SAFETY FENCE

BR. END STA. 1292+83.15

STA. 1297+78.72
BEGIN WIRE ROPE SAFETY FENCE

BR. END STA. 1297+69.15

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

△△△ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL
DEVICES UNTIL END OF CONSTRUCTION
UNLESS OTHERWISE NOTED.

EXIST. C OF A & R/W

1300



1305

S 87°44'57" E

1310

1315

WIRE ROPE SAFETY FENCE
& CONCRETE DITCH PAVING

STA. 1310+76 IN PLACE
DBL. 10'X6'X263' R.C. BOX CULV'T.
30° RT. FWD. SKEW WITH
TYPE "T" DROP INLET IN MEDIAN
2'-6" X 3'-0" X H = 8'-0"
D.A. = 541 AC.
RETAIN

Sta. 1302+42 In Place
Drop Inlet in Median
3'-0" x 5'-3" x H = 12'-6" with
36" x 172' R.C. Pipe Inlet &
36" x 164' R.C. Pipe Outlet
45° Rt. Fwd. Skew
D.A. = 14 Ac., C = 0.8
RETAIN

EXIST. C OF A & R/W

1/15/2013

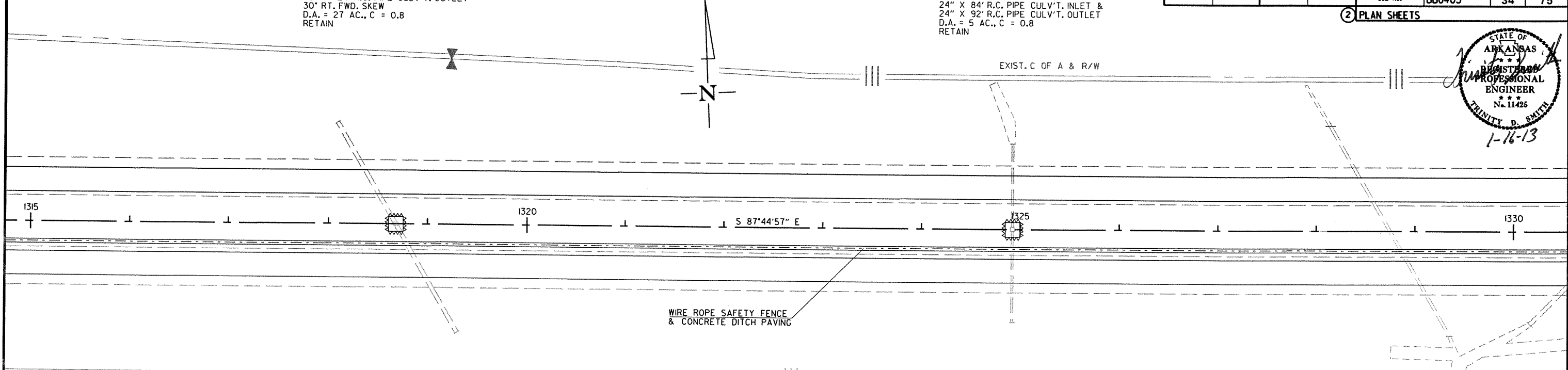
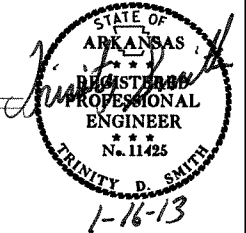
RBB0403.DGN

STA. 1318+68 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-11" X H = 7'-9" WITH
 42" X 116' R.C. PIPE CULV'T. INLET &
 42" X 124' R.C. PIPE CULV'T. OUTLET
 30° RT. FWD. SKEW
 D.A. = 27 AC., C = 0.8
 RETAIN

STA. 1324+92 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-0" X H = 3'-0" WITH
 24" X 84' R.C. PIPE CULV'T. INLET &
 24" X 92' R.C. PIPE CULV'T. OUTLET
 D.A. = 5 AC., C = 0.8
 RETAIN

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0403							34	75

2 PLAN SHEETS



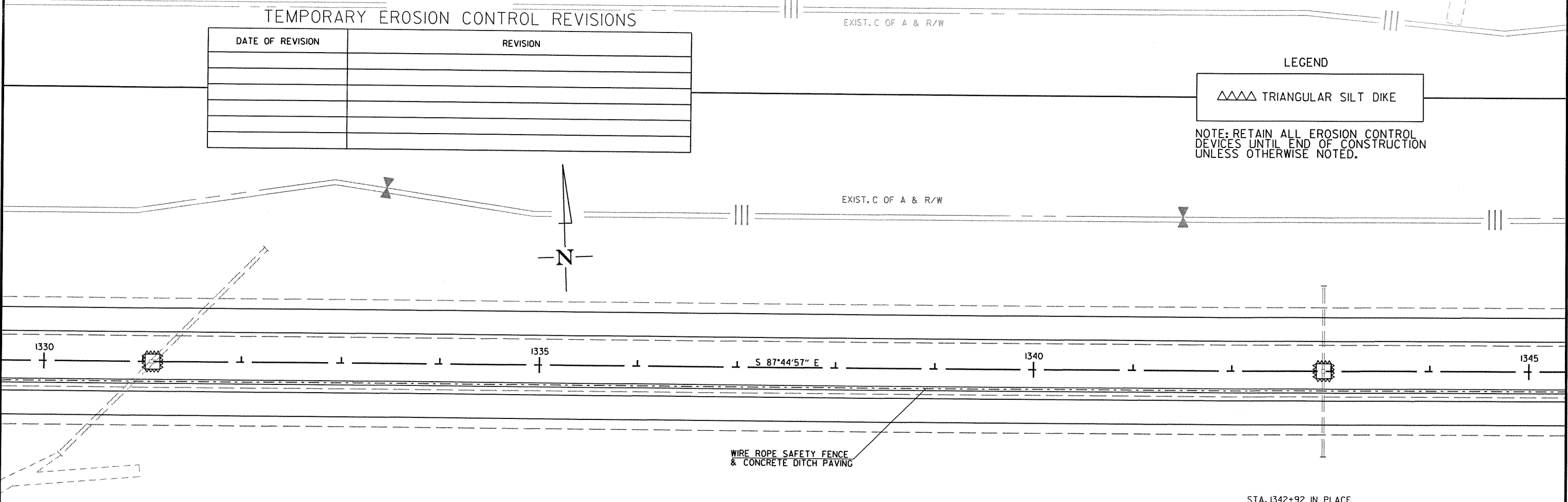
TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.



STA. 1331+10 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 6'-11" X H = 9'-0" WITH
 48" X 160' R.C. PIPE CULV'T. INLET &
 48" X 132' R.C. PIPE CULV'T. OUTLET
 45° LT. FWD. SKEW
 D.A. = 39 AC., C = 0.8
 RETAIN

STA. 1342+92 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-0" X H = 3'-0" WITH
 24" X 84' R.C. PIPE CULV'T. INLET &
 24" X 84' R.C. PIPE CULV'T. OUTLET
 D.A. = 5 AC., C = 0.8
 RETAIN

1/15/2013

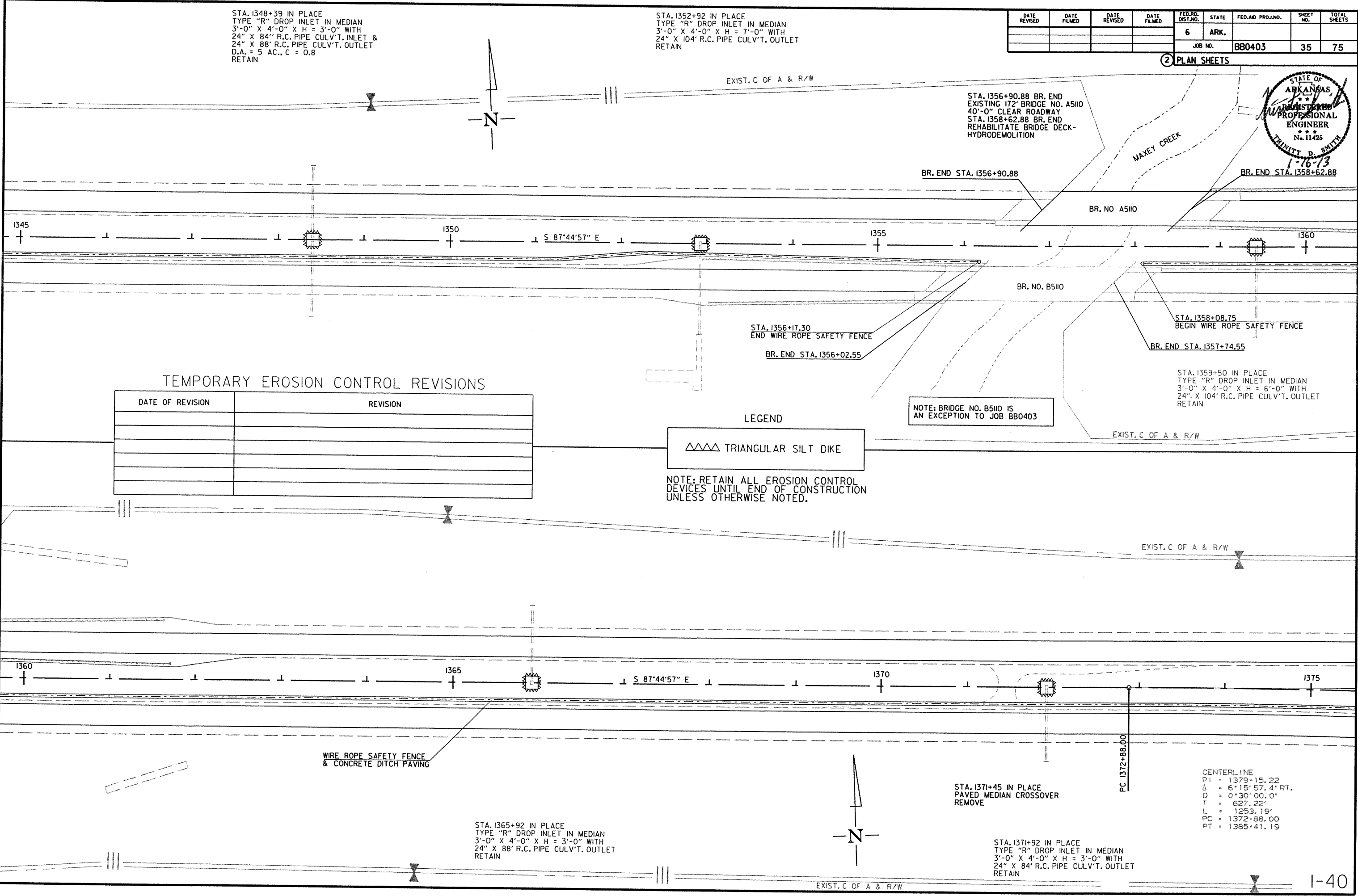
RB0403.DCN

STA. 1348+39 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-0" X H = 3'-0" WITH
 24" X 84" R.C. PIPE CULV'T. INLET &
 24" X 88" R.C. PIPE CULV'T. OUTLET
 D.A. = 5 AC., C = 0.8
 RETAIN

STA. 1352+92 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-0" X H = 7'-0" WITH
 24" X 104" R.C. PIPE CULV'T. OUTLET
 RETAIN

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. BB0403							35	75

2 PLAN SHEETS



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

△△△ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

NOTE: BRIDGE NO. B5110 IS AN EXCEPTION TO JOB BB0403

CENTERLINE
 PI = 1379+15.22
 Δ = 6°15'57.4" RT.
 D = 0°30'00.0"
 T = 627.22'
 L = 1253.19'
 PC = 1372+88.00
 PT = 1385+41.19

1/15/2013

BB0403.DCN

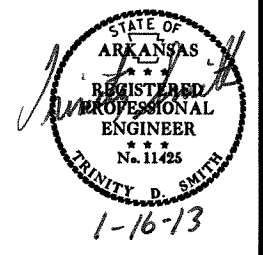
STA. 1377+26 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 6'-11" X H = 6'-6" WITH
 48" X 136" R.C. PIPE CULV'T. INLET &
 48" X 160" R.C. PIPE CULV'T. OUTLET
 45° LT. FWD. SKEW
 D.A. = 39 AC., C = 0.8
 RETAIN

STA. 1380+23 IN PLACE
 36" X 124" R.C. PIPE CULV'T.
 30° RT. FWD. SKEW
 D.A. = 16 AC., C = 0.8
 RETAIN

STA. 1380+92 IN PLACE
 36" X 124" R.C. PIPE CULV'T.
 30° RT. FWD. SKEW
 D.A. = 16 AC., C = 0.8
 RETAIN

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. BB0403							36	75

2 PLAN SHEETS



WESTBOUND CENTERLINE
 PI = 1386+45.29
 Δ = 6° 15' 59.0" RT.
 D = 0° 29' 53.4"
 T = 629.56'
 L = 1257.87'
 PC = 1380+15.73
 PT = 1392+73.60

CENTERLINE
 PI = 1379+15.22
 Δ = 6° 15' 57.4" RT.
 D = 0° 30' 00.0"
 T = 627.22'
 L = 1253.19'
 PC = 1372+88.00
 PT = 1385+41.19

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

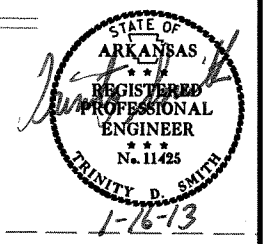
△△△ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

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 RB0403.DCN

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. BB0403	37	75

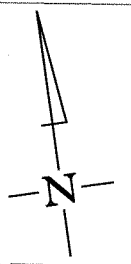
2 PLAN SHEETS



STA. 1405+90 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 5 AC., C = 0.8
RETAIN

STA. 1409+89 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 4 AC., C = 0.8
RETAIN

EXIST. C OF A & R/W



STA. 1405+70 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 5 AC., C = 0.8
RETAIN

STA. 1409+90 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 4 AC., C = 0.8
RETAIN

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

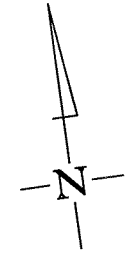
LEGEND

△△△ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

STA. 1422+90 IN PLACE
36" X 88' R.C. PIPE CULV'T.
D.A. = 15 AC., C = 0.8
RETAIN

STA. 1426+90 IN PLACE
30" X 88' R.C. PIPE CULV'T.
D.A. = 7 AC., C = 0.8
RETAIN



STA. 1422+90 IN PLACE
36" X 88' R.C. PIPE CULV'T.
D.A. = 15 AC., C = 0.8
RETAIN

STA. 1426+90 IN PLACE
30" X 88' R.C. PIPE CULV'T.
D.A. = 7 AC., C = 0.8
RETAIN

EXIST. C OF A & R/W

EXIST. C OF A & R/W

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RB0403.DGN

1405

1410

1415

1420

S 81°29'00" E

1420

1425

1430

1435

S 81°29'00" E

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. BB0403							38	75

2 PLAN SHEETS



STA. 1446+16 IN PLACE
42" X 232' R.C. PIPE CULV'T.
30° RT. FWD. SKEW
D.A. = 21 AC., C = 0.8
RETAIN

STA. 1436+36 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 4 AC., C = 0.8
RETAIN

STA. 1436+36 IN PLACE
24" X 104' R.C. PIPE CULV'T.
D.A. = 4 AC., C = 0.8
RETAIN

STA. 1442+71 IN PLACE
DBL. 12" X 8' X 415' R.C. BOX CULV'T.
TYPE "T" DROP INLET IN MEDIAN
2'-6" X 3'-0" X H = 2'-6"
D.A. = 693 AC.
RETAIN

STA. 1454+73 IN PLACE
24" X 88' R.C. PIPE CULV'T.
RETAIN

STA. 1459+61 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 5 AC., C = 0.8
RETAIN

STA. 1464+15 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 5 AC., C = 0.8
RETAIN

WESTBOUND CENTERLINE
PI = 1447+45.67
Δ = 34°18'59.8" LT.
D = 1°30'00.0"
T = 1179.35'
L = 2287.77'
PC = 1435+66.32
PT = 1458+54.09

CENTERLINE
PI = 1449+74.92
Δ = 34°19'00.4" LT.
D = 1°30'57.6"
T = 1166.91'
L = 2263.64'
PC = 1438+08.01
PT = 1460+71.65

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

WESTBOUND CENTERLINE
PI = 1447+45.67
Δ = 34°18'59.8" LT.
D = 1°30'00.0"
T = 1179.35'
L = 2287.77'
PC = 1435+66.32
PT = 1458+54.09

CENTERLINE
PI = 1449+74.92
Δ = 34°19'00.4" LT.
D = 1°30'57.6"
T = 1166.91'
L = 2263.64'
PC = 1438+08.01
PT = 1460+71.65

LEGEND

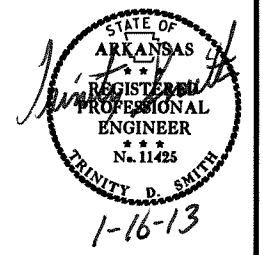
△△△ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

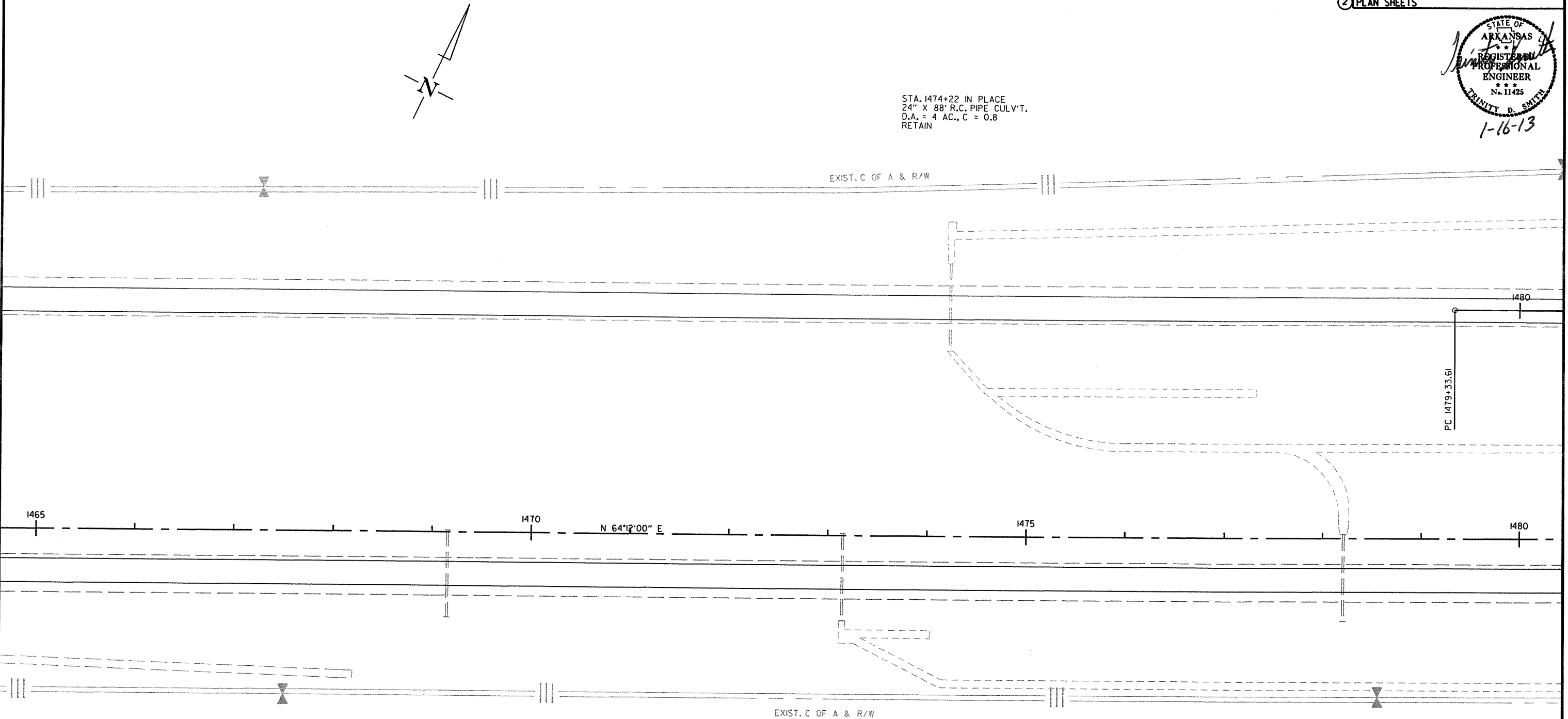
1/15/2013
RB0403.DCN

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. 880403							39	75

2 PLAN SHEETS



STA. 1474+22 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 4 AC., C = 0.8
RETAIN



STA. 1469+16 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 4 AC., C = 0.8
RETAIN

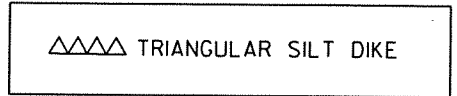
STA. 1473+15 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 4 AC., C = 0.8
RETAIN

STA. 1478+21 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 3 AC., C = 0.8
RETAIN

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND



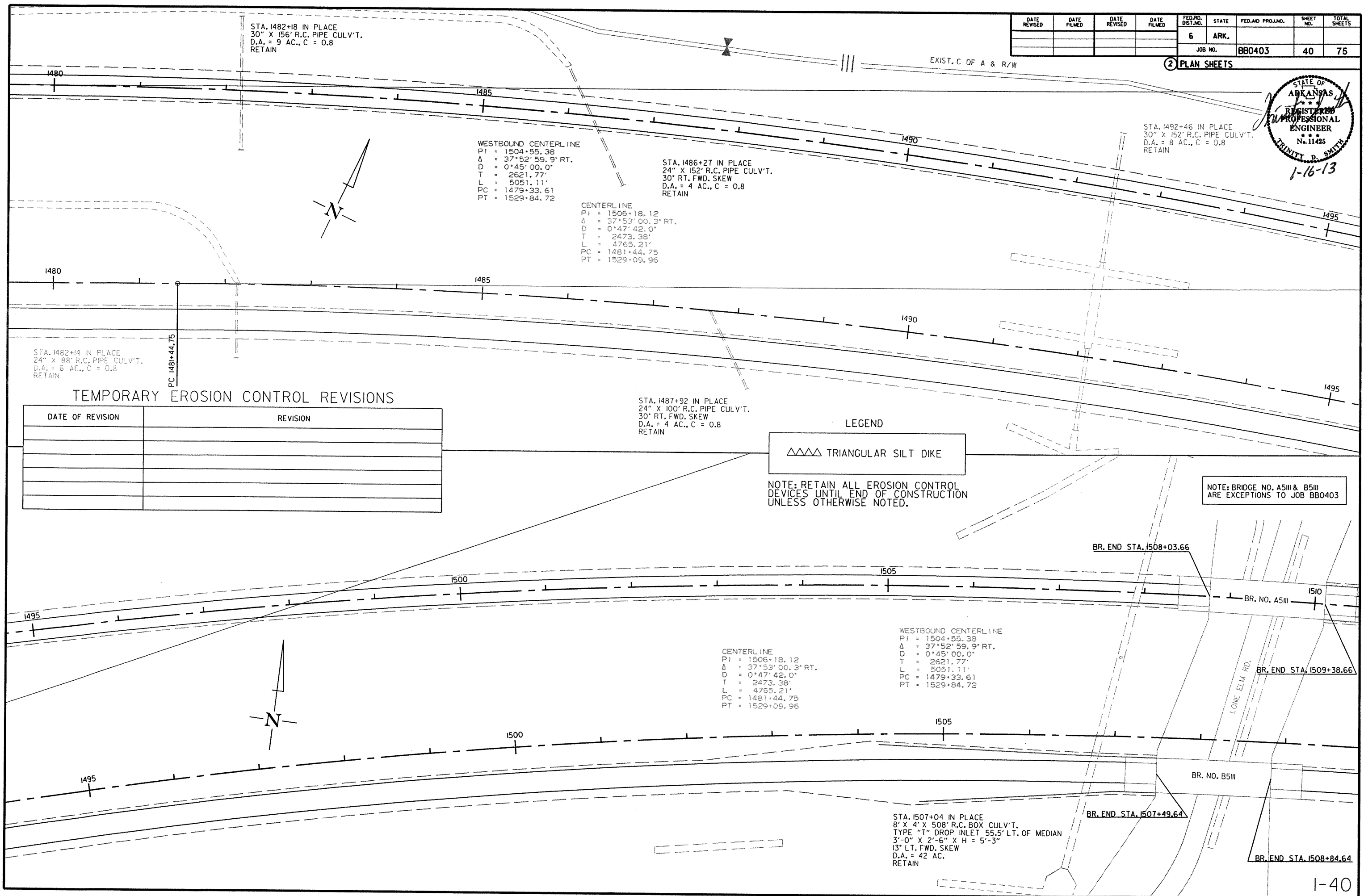
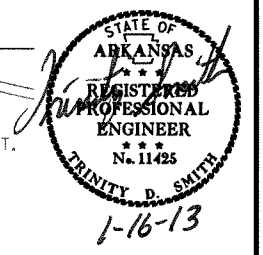
NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

1/15/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0403							40	75

2 PLAN SHEETS



STA. 1482+18 IN PLACE
30" X 156" R.C. PIPE CULV'T.
D.A. = 9 AC., C = 0.8
RETAIN

WESTBOUND CENTERLINE
PI = 1504+55.38
Δ = 37°52'59.9" RT.
D = 0°45'00.0"
T = 2621.77'
L = 5051.11'
PC = 1479+33.61
PT = 1529+84.72

STA. 1486+27 IN PLACE
24" X 152" R.C. PIPE CULV'T.
30° RT. FWD. SKEW
D.A. = 4 AC., C = 0.8
RETAIN

CENTERLINE
PI = 1506+18.12
Δ = 37°53'00.3" RT.
D = 0°47'42.0"
T = 2473.38'
L = 4765.21'
PC = 1481+44.75
PT = 1529+09.96

STA. 1492+46 IN PLACE
30" X 152" R.C. PIPE CULV'T.
D.A. = 8 AC., C = 0.8
RETAIN

STA. 1482+14 IN PLACE
24" X 88" R.C. PIPE CULV'T.
D.A. = 6 AC., C = 0.8
RETAIN

STA. 1487+92 IN PLACE
24" X 100" R.C. PIPE CULV'T.
30° RT. FWD. SKEW
D.A. = 4 AC., C = 0.8
RETAIN

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

NOTE: BRIDGE NO. A5III & B5III ARE EXCEPTIONS TO JOB BB0403

CENTERLINE
PI = 1506+18.12
Δ = 37°53'00.3" RT.
D = 0°47'42.0"
T = 2473.38'
L = 4765.21'
PC = 1481+44.75
PT = 1529+09.96

WESTBOUND CENTERLINE
PI = 1504+55.38
Δ = 37°52'59.9" RT.
D = 0°45'00.0"
T = 2621.77'
L = 5051.11'
PC = 1479+33.61
PT = 1529+84.72

STA. 1507+04 IN PLACE
8' X 4' X 508' R.C. BOX CULV'T.
TYPE "T" DROP INLET 55.5' LT. OF MEDIAN
3'-0" X 2'-6" X H = 5'-3"
13° LT. FWD. SKEW
D.A. = 42 AC.
RETAIN

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RB0403.DGN

WESTBOUND CENTERLINE
 PI = 1504+55.38
 Δ = 37°52'59.9" RT.
 D = 0°45'00.0"
 T = 2621.77'
 L = 5051.11'
 PC = 1479+33.61
 PT = 1529+84.72

STA. 1512+12 IN PLACE
 TYPE "R" DROP INLET 69.5' RT. OF MEDIAN
 3'-0" X 4'-0" X H = 3'-6" WITH
 24" X 196' R.C. PIPE INLET &
 30" X 220' R.C. PIPE OUTLET
 D.A. = 6 AC., C = 0.8
 RETAIN

STA. 1518+00 IN PLACE
 TYPE "R" DROP INLET 82.5' LT. OF MEDIAN
 3'-0" X 4'-0" X H = 13'-6" WITH
 24" X 188' R.C. PIPE INLET &
 30" X 196' R.C. PIPE OUTLET
 D.A. = 4 AC., C = 1.0
 RETAIN

STA. 1521+99 IN PLACE
 30" X 148' R.C. PIPE CULV'T.
 D.A. = 10 AC., C = 0.8
 RETAIN

CENTERLINE
 PI = 1506+18.12
 Δ = 37°53'00.3" RT.
 D = 0°47'42.0"
 T = 2473.38'
 L = 4765.21'
 PC = 1481+44.75
 PT = 1529+09.96

WESTBOUND CENTERLINE
 PI = 1504+55.38
 Δ = 37°52'59.9" RT.
 D = 0°45'00.0"
 T = 2621.77'
 L = 5051.11'
 PC = 1479+33.61
 PT = 1529+84.72

CENTERLINE
 PI = 1506+18.12
 Δ = 37°53'00.3" RT.
 D = 0°47'42.0"
 T = 2473.38'
 L = 4765.21'
 PC = 1481+44.75
 PT = 1529+09.96

STA. 1528+47 IN PLACE
 24" X 192' R.C. PIPE CULV'T.
 D.A. = 4 AC., C = 0.8
 RETAIN

STA. 1532+53 IN PLACE
 30" X 216' R.C. PIPE CULV'T.
 30" RT. FWD. SKEW
 D.A. = 8 AC., C = 0.8
 RETAIN

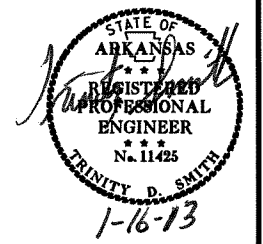
STA. 1527+35 IN PLACE
 24" X 88' R.C. PIPE CULV'T.
 D.A. = 3 AC., C = 0.8
 RETAIN

STA. 1532+89 IN PLACE
 24" X 88' R.C. PIPE CULV'T.
 D.A. = 4 AC., C = 0.8
 RETAIN

CENTERLINE
 PI = 1547+11.53
 Δ = 26°29'52.0" LT.
 D = 1°31'03.0"
 T = 888.97'
 L = 1746.15'
 PC = 1538+22.55
 PT = 1555+68.70

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. BB0403							41	75

2 PLAN SHEETS



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲▲ TRIANGULAR SILT DIKE

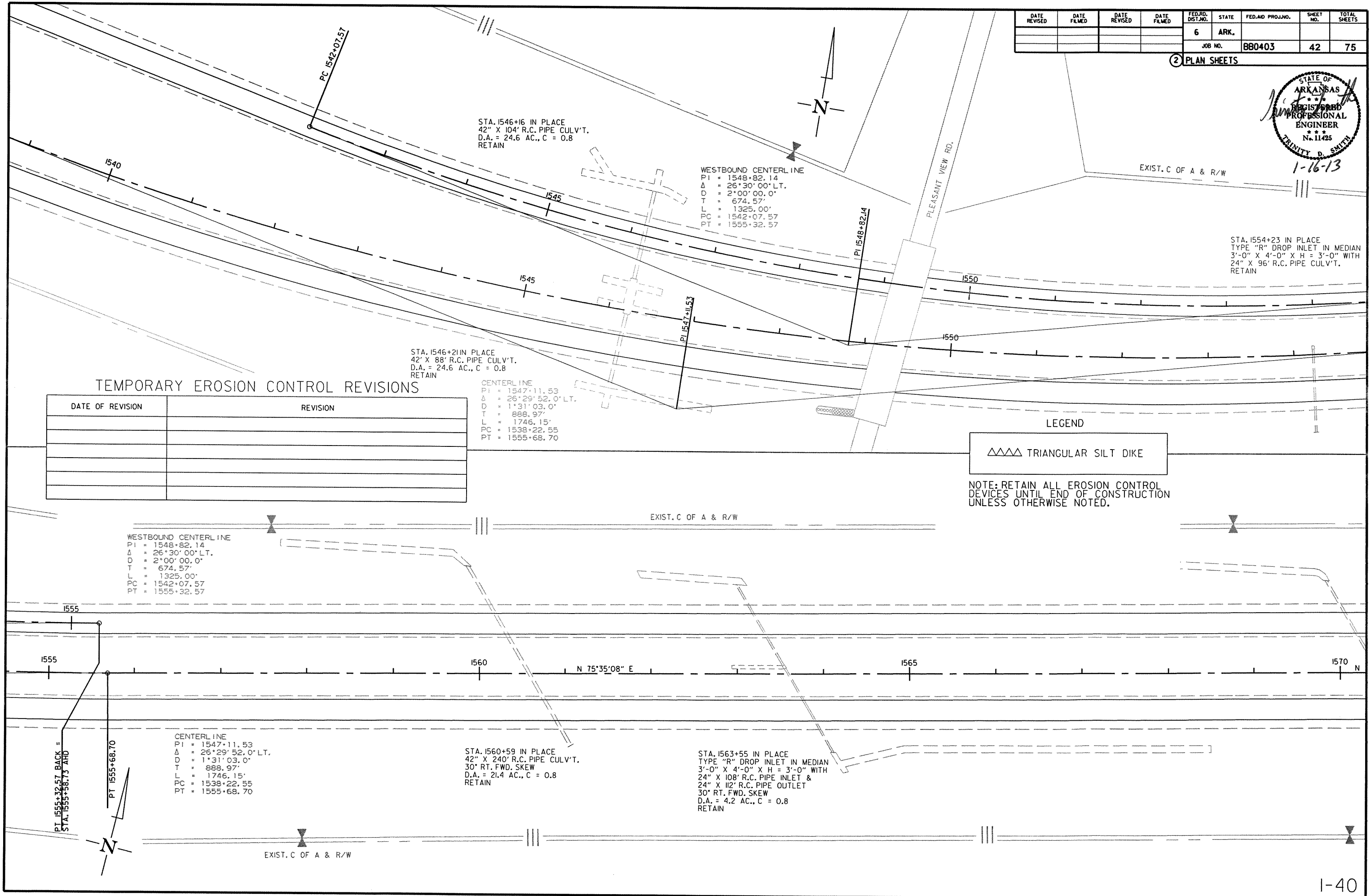
NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

1/15/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0403		42	75

2 PLAN SHEETS



STA. 1546+16 IN PLACE
42" X 104' R.C. PIPE CULV'T.
D.A. = 24.6 AC., C = 0.8
RETAIN

WESTBOUND CENTERLINE
PI = 1548+82.14
Δ = 26°30'00" LT.
D = 2°00'00.0"
T = 674.57'
L = 1325.00'
PC = 1542+07.57
PT = 1555+32.57

STA. 1554+23 IN PLACE
TYPE "R" DROP INLET IN MEDIAN
3'-0" X 4'-0" X H = 3'-0" WITH
24" X 96' R.C. PIPE CULV'T.
RETAIN

STA. 1546+21 IN PLACE
42" X 88' R.C. PIPE CULV'T.
D.A. = 24.6 AC., C = 0.8
RETAIN

CENTERLINE
PI = 1547+11.53
Δ = 26°29'52.0" LT.
D = 1°31'03.0"
T = 888.97'
L = 1746.15'
PC = 1538+22.55
PT = 1555+68.70

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

WESTBOUND CENTERLINE
PI = 1548+82.14
Δ = 26°30'00" LT.
D = 2°00'00.0"
T = 674.57'
L = 1325.00'
PC = 1542+07.57
PT = 1555+32.57

CENTERLINE
PI = 1547+11.53
Δ = 26°29'52.0" LT.
D = 1°31'03.0"
T = 888.97'
L = 1746.15'
PC = 1538+22.55
PT = 1555+68.70

STA. 1560+59 IN PLACE
42" X 240' R.C. PIPE CULV'T.
30° RT. FWD. SKEW
D.A. = 21.4 AC., C = 0.8
RETAIN

STA. 1563+55 IN PLACE
TYPE "R" DROP INLET IN MEDIAN
3'-0" X 4'-0" X H = 3'-0" WITH
24" X 108' R.C. PIPE INLET &
24" X 102' R.C. PIPE OUTLET
30° RT. FWD. SKEW
D.A. = 4.2 AC., C = 0.8
RETAIN

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RB0403.DGN

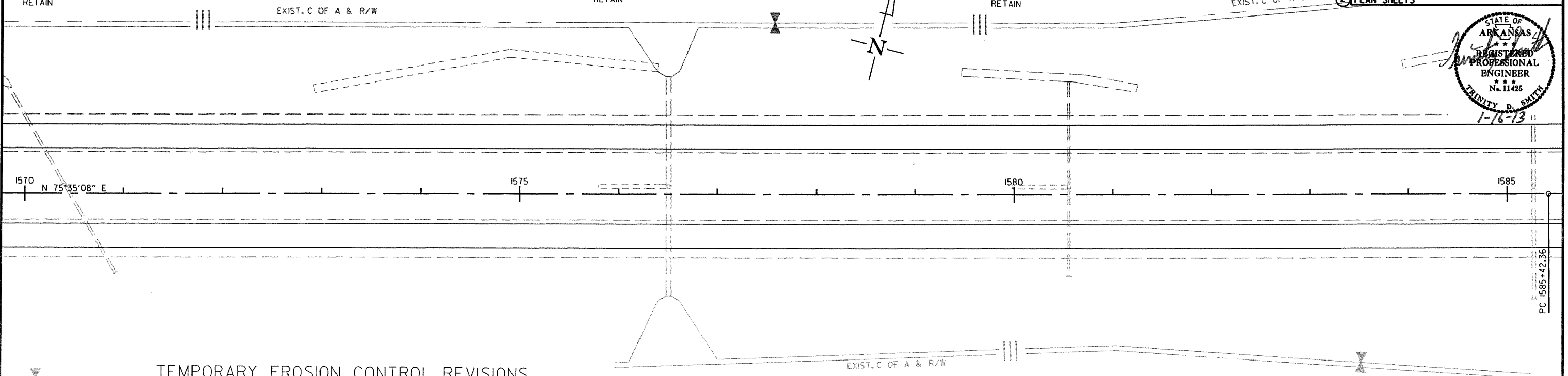
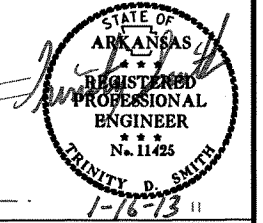
STA. 1570+41 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-0" X H = 3'-0" WITH
 30" X 112' R.C. PIPE INLET &
 30" X 100' R.C. PIPE OUTLET
 30° RT. FWD. SKEW
 D.A. = 10.7 AC., C = 0.8
 RETAIN

STA. 1576+51 IN PLACE
 5' X 4' X 22' R.C. BOX CULV'T. WITH
 TYPE "T" DROP INLET IN MEDIAN
 3'-0" X 2'-6" X H = 3'-8"
 D.A. = 62.7 AC.
 RETAIN

STA. 1580+56 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-0" X H = 3'-6" WITH
 24" X 104' R.C. PIPE INLET &
 24" X 88' R.C. PIPE OUTLET
 D.A. = 2.2 AC., C = 0.8
 RETAIN

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. BB0403							43	75

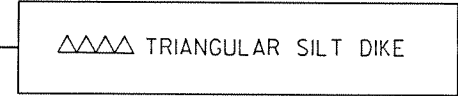
EXIST. C OF A & R/W



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND



NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

WESTBOUND CENTERLINE
 PI = 1606+77.11
 Δ = 45°06'59.9" RT.
 D = 1°30'00.0"
 T = 1586.74'
 L = 3007.78'
 PC = 1590+90.37
 PT = 1620+98.15

CENTERLINE
 PI = 1605+49.07
 Δ = 45°06'51.5" RT.
 D = 1°11'09.6"
 T = 2006.72'
 L = 3803.90'
 PC = 1585+42.36
 PT = 1623+46.26

STA. 1585+27 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-3" X H = 10'-4" WITH
 42" X 124' R.C. PIPE INLET &
 42" X 112' R.C. PIPE OUTLET
 D.A. = 24.8 AC., C = 0.8
 RETAIN

STA. 1588+94 IN PLACE
 TYPE "R" DROP INLET IN MEDIAN
 3'-0" X 4'-0" X H = 10'-2" WITH
 48" X 108' R.C. PIPE INLET &
 48" X 144' R.C. PIPE OUTLET
 D.A. = 32 AC., C = 0.8
 RETAIN

STA. 1596+92 IN PLACE
 42" X 96' R.C. PIPE CULV'T.
 D.A. = 24.9 AC., C = 0.8
 RETAIN

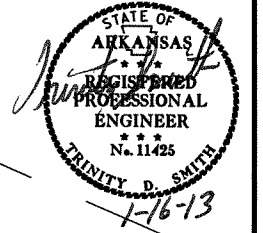
STA. 1597+07 IN PLACE
 42" X 88' R.C. PIPE CULV'T.
 D.A. = 24.9 AC., C = 0.8
 RETAIN

1/15/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	B80403		44	75

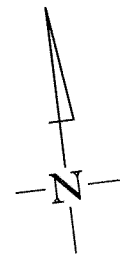
2 PLAN SHEETS



STA. 1605+47 IN PLACE
24" X 88' R.C. PIPE CULV'T.
RETAIN

STA. 1611+72 IN PLACE
24" X 88' R.C. PIPE CULV'T.
RETAIN

WESTBOUND CENTERLINE
PI = 1606+77.11
Δ = 45°06'59.9" RT.
D = 1°30'00.0"
T = 1586.74'
L = 3007.78'
PC = 1590+90.37
PT = 1620+98.15



STA. 1604+88 IN PLACE
30" X 88' R.C. PIPE CULV'T.
RETAIN

CENTERLINE
PI = 1605+49.07
Δ = 45°06'51.5" RT.
D = 1°11'09.6"
T = 2006.72'
L = 3803.90'
PC = 1585+42.36
PT = 1623+46.26

STA. 1611+00 IN PLACE
30" X 88' R.C. PIPE CULV'T.
RETAIN

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

▲▲▲ TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

STA. 1617+47 IN PLACE
24" X 88' R.C. PIPE CULV'T.
RETAIN

STA. 1624+31 IN PLACE
24" X 88' R.C. PIPE CULV'T.
RETAIN

WESTBOUND CENTERLINE
PI = 1606+77.11
Δ = 45°06'59.9" RT.
D = 1°30'00.0"
T = 1586.74'
L = 3007.78'
PC = 1590+90.37
PT = 1620+98.15

PT. 1620+98.15 BACK =
STA. 1619+92.53

CENTERLINE
PI = 1605+49.07
Δ = 45°06'51.5" RT.
D = 1°11'09.6"
T = 2006.72'
L = 3803.90'
PC = 1585+42.36
PT = 1623+46.26

STA. 1624+28 IN PLACE
24" X 88' R.C. PIPE CULV'T.
RETAIN

STA. 1616+50 IN PLACE
30" X 88' R.C. PIPE CULV'T.
RETAIN



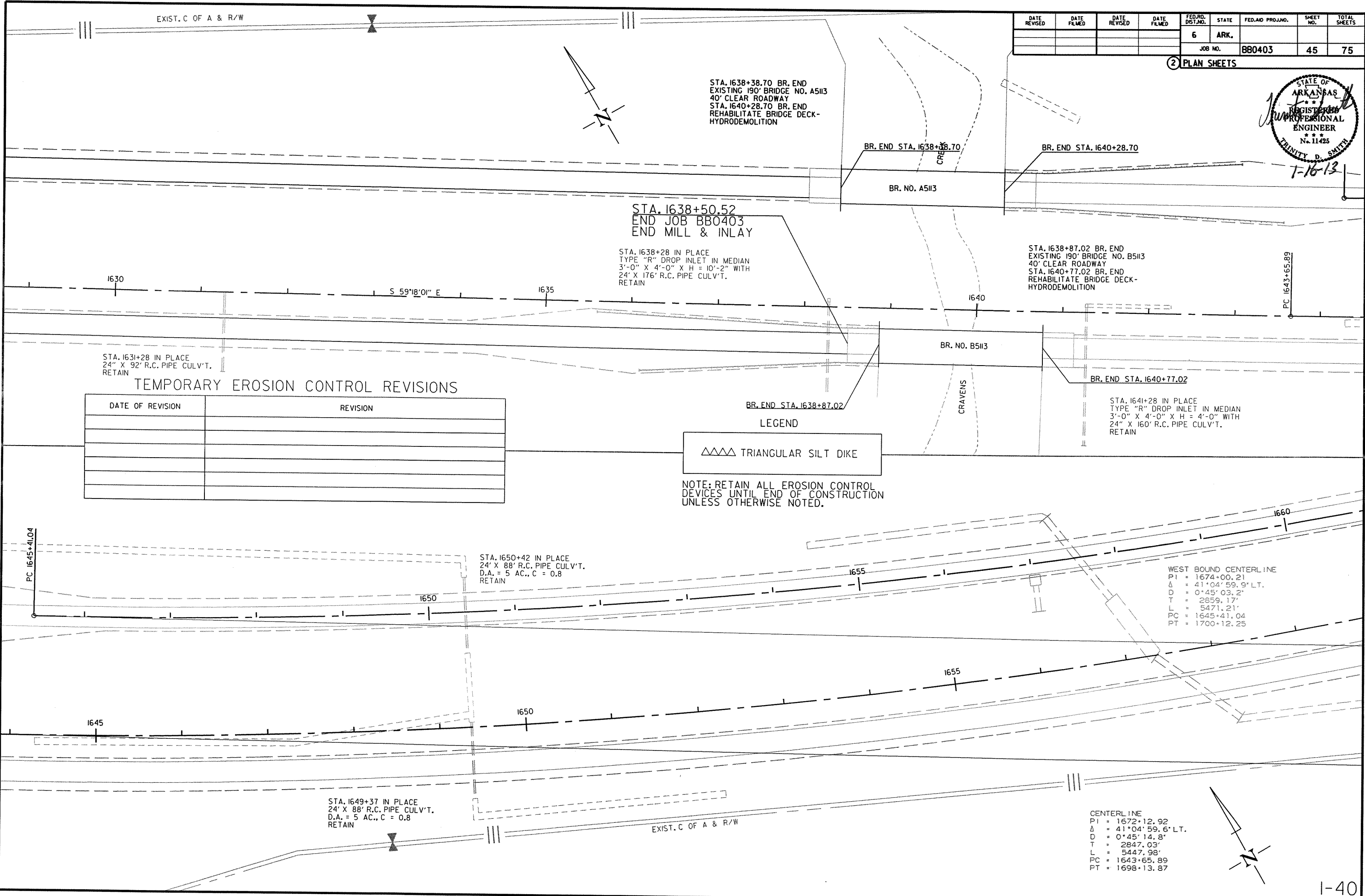
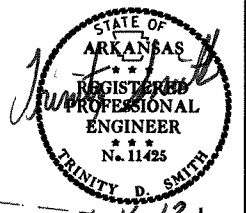
EXIST. C OF A & R/W

1/15/2013

RBB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. BB0403	45	75

② PLAN SHEETS



STA. 1638+38.70 BR. END
EXISTING 190' BRIDGE NO. A5113
40' CLEAR ROADWAY
STA. 1640+28.70 BR. END
REHABILITATE BRIDGE DECK-
HYDRODEMOLITION

STA. 1638+50.52
END JOB BB0403
END MILL & INLAY

STA. 1638+28 IN PLACE
TYPE "R" DROP INLET IN MEDIAN
3'-0" X 4'-0" X H = 10'-2" WITH
24" X 176' R.C. PIPE CULV'T.
RETAIN

STA. 1638+87.02 BR. END
EXISTING 190' BRIDGE NO. B5113
40' CLEAR ROADWAY
STA. 1640+77.02 BR. END
REHABILITATE BRIDGE DECK-
HYDRODEMOLITION

STA. 1631+28 IN PLACE
24" X 92' R.C. PIPE CULV'T.
RETAIN

TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND
 TRIANGULAR SILT DIKE

NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

STA. 1650+42 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 5 AC., C = 0.8
RETAIN

WEST BOUND CENTERLINE
 PI = 1674+00.21
 Δ = 41°04'59.9" L.T.
 D = 0°45'03.2"
 T = 2859.17'
 L = 5471.21'
 PC = 1645+41.04
 PT = 1700+12.25

STA. 1649+37 IN PLACE
24" X 88' R.C. PIPE CULV'T.
D.A. = 5 AC., C = 0.8
RETAIN

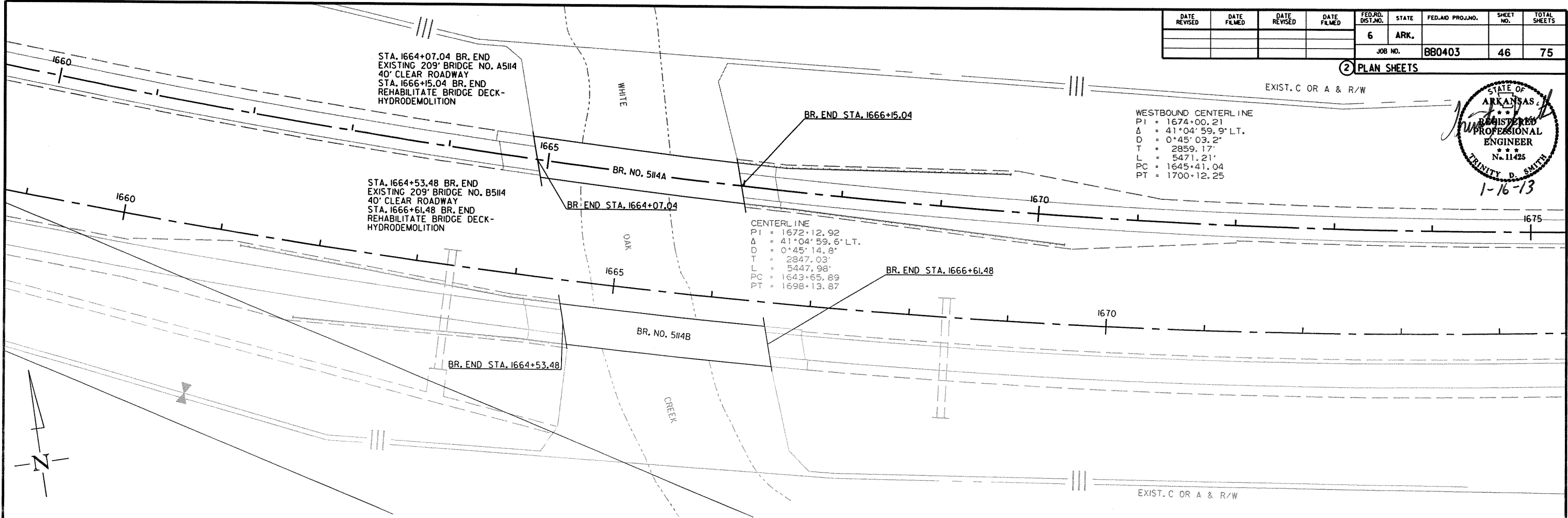
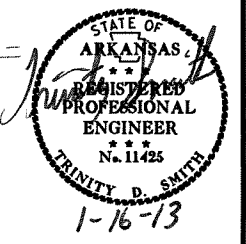
CENTERLINE
 PI = 1672+12.92
 Δ = 41°04'59.6" L.T.
 D = 0°45'14.8"
 T = 2847.03'
 L = 5447.98'
 PC = 1643+65.89
 PT = 1698+13.87

1/15/2013

RB0403.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0403							46	75

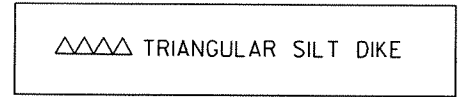
2 PLAN SHEETS



TEMPORARY EROSION CONTROL REVISIONS

DATE OF REVISION	REVISION

LEGEND

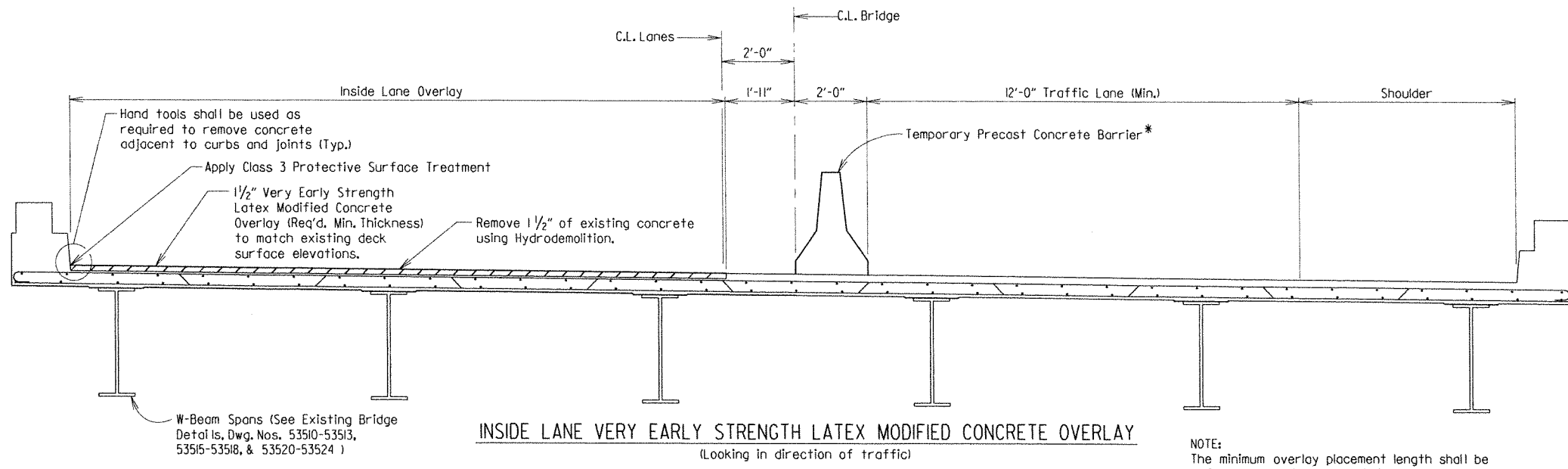


NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

1/15/2013
 RB0403.DCN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0403							47	75

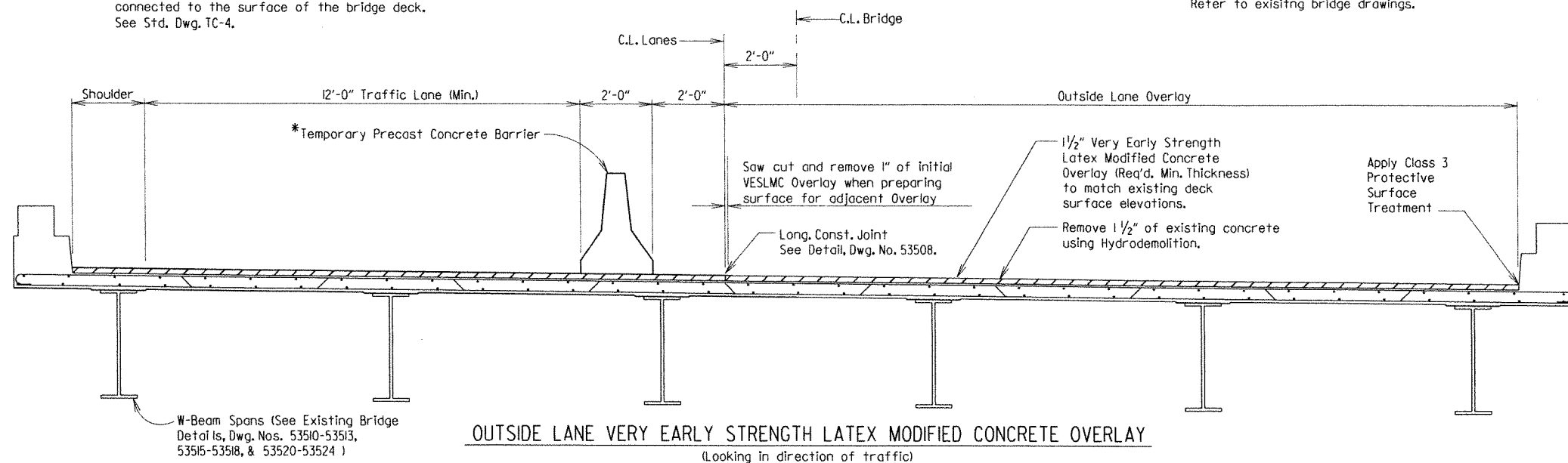
① A5110, A&B5113- VESLMC OVERLAY -53507
A&B5114



INSIDE LANE VERY EARLY STRENGTH LATEX MODIFIED CONCRETE OVERLAY
(Looking in direction of traffic)

NOTE:
The minimum overlay placement length shall be a fullspan on simple span bridges and to an existing slab joint on continuous unit bridges. Refer to existing bridge drawings.

*Temporary Precast Concrete Barrier shall not be connected to the surface of the bridge deck. See Std. Dwg. TC-4.



OUTSIDE LANE VERY EARLY STRENGTH LATEX MODIFIED CONCRETE OVERLAY
(Looking in direction of traffic)

GENERAL NOTES:
CONSTRUCTION SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 2003, with applicable special provisions and Supplemental Specifications. Unless otherwise noted in the plans Section and Subsection refer to the Standard Specifications.

Drawing shows details and dimensions of existing structures based on the original bridge plans. The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and fit the new work to the existing structure.

The operation or placement of vehicles, equipment and/or materials on the subject bridges shall be subject to the provisions of SS-105-2 "Equipment and Material Storage on Bridge Structures". Certifications of the adequacy of all components for the anticipated loads shall address the capacity of the existing structure at all phases of this work.

HYDRODEMOLITION: The designated area of the existing bridge deck shall receive hydrodemolition in accordance with the Job Special Provision "Hydrodemolition" to a planned depth of 1 1/2" below the existing bridge deck surface. Deteriorated concrete below this depth shall be removed up to the limits detailed and at the direction of the Engineer. These areas shall be measured by the square yard and shall be paid for at the unit price bid for the item SP Job BB0403 "Hydrodemolition."

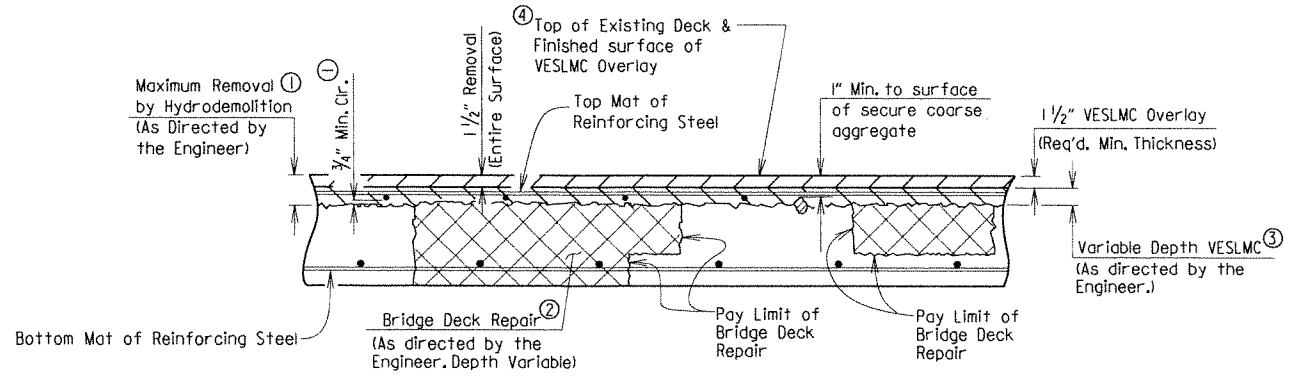
Prior to hydrodemolition, cold milling of any existing asphalt for its full depth and the concrete deck to a maximum depth of 1" will be allowed unless there will be a conflict with existing reinforcing steel.

BRIDGE DECK REPAIR: After hydrodemolition, the deck surface shall be sounded and any areas of unsound, delaminated or otherwise deteriorated concrete shall be removed at the direction of the Engineer and in accordance with SP Job BB0403 "Bridge Deck Repair".

VERY EARLY STRENGTH LATEX MODIFIED CONCRETE OVERLAY: The designated area of the existing bridge deck shall receive a Very Early Strength Latex Modified Concrete (VESLMC) Overlay to a planned depth of 1 1/2" below the existing bridge deck surface, in accordance with the Job Special Provision "Very Early Strength Latex Modified Concrete Overlay". These areas shall be measured by the square yard and shall be paid for at the unit price bid for the item SP Job BB0403 "Very Early Strength Latex Modified Concrete Overlay (1 1/2" Thick)". Areas of the existing bridge deck removed at the direction of the Engineer to a depth greater than 1 1/2" below the existing bridge deck surface shall be filled with VESLMC concurrent to the placement of the 1 1/2" VESLMC Overlay. This area shall be measured and paid for as SP Job BB0403 "Very Early Strength Latex Modified Concrete (Variable Depth)" at the unit price bid for the item.

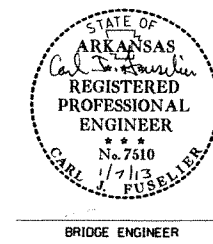
BRIDGE DECK: The VESLMC Overlay surface shall be given a grooved finish as specified for final finishing in Subsection 802.19 for Class 7 Grooved Bridge Roadway Surface Finish and in accordance with Job Special Provision "Very Early Strength Latex Modified Concrete Overlay".

PROTECTIVE SURFACE TREATMENT: The longitudinal joint between the VESLMC overlay and the adjacent existing concrete curb or rail shall be given a Class 3 Protective Surface Treatment as specified in Section 803 and in accordance with Job Special Provision "Very Early Strength Latex Modified Concrete Overlay".



DETAILS OF HYDRODEMOLITION AND LATEX MODIFIED CONCRETE OVERLAY

- ① Removal of unsound concrete beyond 1 1/2" below the original surface shall be at the direction of the Engineer. If the bond between existing concrete and the top mat of reinforcing steel is destroyed, then the concrete shall be removed to a minimum of 3/4" clearance below the bar.
- ② Areas requiring additional repair, as determined by the Engineer, shall be repaired in accordance with the Job Special Provision "Bridge Deck Repair".
- ③ Depth Varies to achieve minimum clearance below top mat of reinforcing steel
- ④ Finished Surface of VESLMC Overlay shall match existing concrete deck surfaces unless increase is required to maintain minimum required VESLMC Overlay thickness and a minimum of 1 1/2" cover to reinforcing steel.



SHEET 1 OF 2
DETAILS OF
VERY EARLY STRENGTH
LATEX MODIFIED CONCRETE OVERLAY

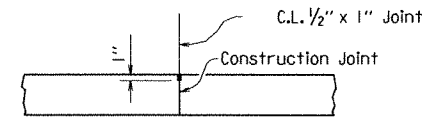
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: SWP DATE: 12/21/12 FILENAME: bb0403_concoverlay.dgn
CHECKED BY: JGT DATE: 12/21/12 SCALE: NO SCALE
DESIGNED BY: JGT DATE: 12/12
BRIDGE NO. A5110, A&B5113 DRAWING NO. 53507
A&B5114

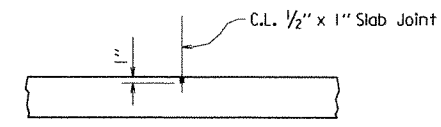
PRINT DATE: 07-JAN-2013

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		48	75

1 A5110, A&B5113- VESLMC OVERLAY -53508
A&B5114



Use 1/2" X 1" Type 3, 4 or 6 Joint Sealer. See subsections 50L02 (h) and 50L05 (j). Backer Rod shall not be installed. Joint Sealer shall be measured and paid for as VESLMC Overlay. Sealant must be gray or other color similar to concrete.

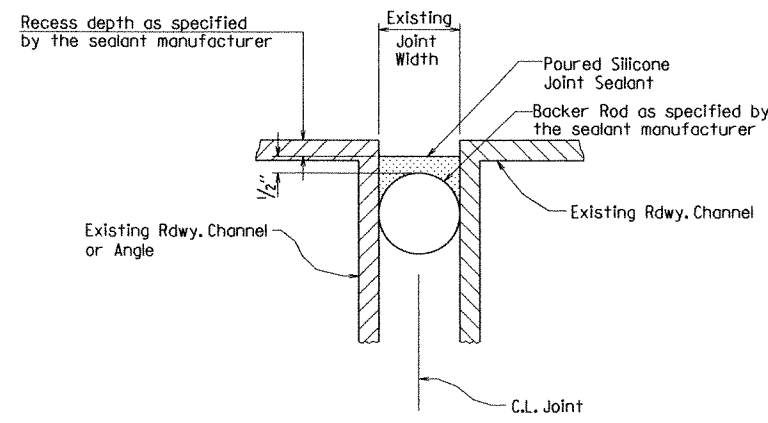


Use 1/2" X 1" Type 3, 4 or 6 Joint Sealer. See subsections 50L02 (h) and 50L05 (j). Backer rod shall not be installed. Joint Sealer shall be measured and paid for as VESLMC Overlay. Slab joints shall extend to the outside edge of the deck slab. Slab joints shall be placed at all pouring sequence construction joints and are required at existing slab joint locations.

Slab joints and longitudinal construction joints shall be sawed as soon as the concrete has sufficiently set to allow sawing of the joint without damage to the Overlay.

LONGITUDINAL OVERLAY CONSTRUCTION JOINT DETAIL
No Scale

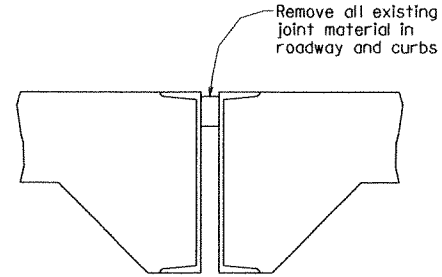
OVERLAY JOINT DETAIL
No Scale



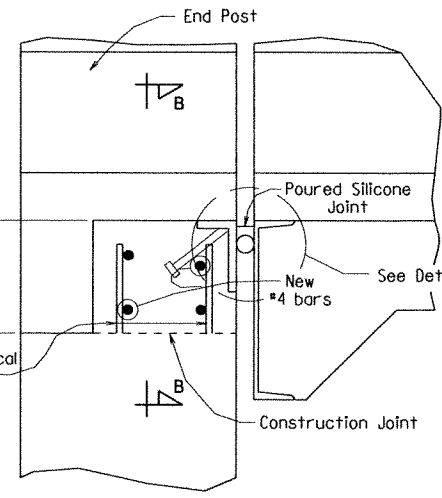
Notes: Backer rods shall be extended beyond the length of the poured joint in the initial joint rehabilitation area so that the two pieces can be properly spliced together prior to installing sealant for the adjacent joint rehabilitation. Manufacturer's recommendations shall be followed to prevent sealant leakage during rehabilitation work.

Existing Joint Seal shall be completely removed, backer rods placed, and Silicone Joint Sealant installed across the entire width of the bridge deck in accordance with these details and Manufacturer's instructions. Removal of existing Joint Seal will not be paid for directly, but shall be considered incidental to the item "Silicone Joint Sealant".

POURED SILICONE JOINT SEAL DETAILS
TYPE B JOINT REHABILITATION
No Scale

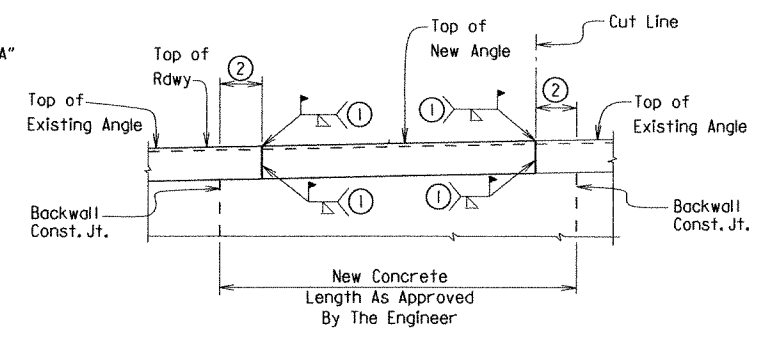


REMOVAL DETAILS AT INT. BENTS
TYPE B JOINT REHABILITATION
Scale: 1/2" = 1'-0"



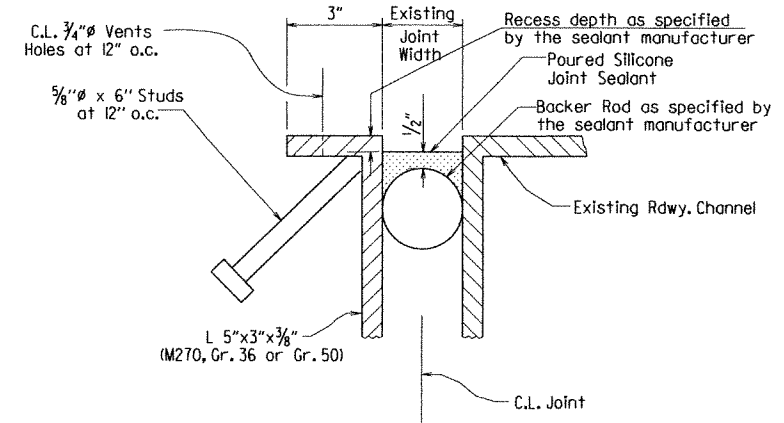
DETAILS OF BACKWALL REPAIR
No Scale

*Note: Designated reinforcing steel to be retained shall be cleaned of all concrete and laitance. Care shall be exercised to prevent damage to the reinforcing during removal of existing concrete. Replacement of any damaged reinforcing steel shall be the responsibility of the Contractor.



VIEW B-B
No Scale

- ① Grind Flush
- ② Chip concrete away from existing angle to provide clearance to weld new angle



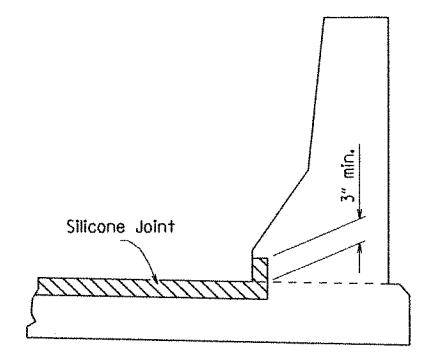
DETAIL "A"
No Scale

Quantities shown are per foot of repair and are for information only.

Structural Steel (lb.)	Reinforcing Steel (lb.)	Class (S/AE) Concrete (cu. yd.)
10.4	2.67	0.34

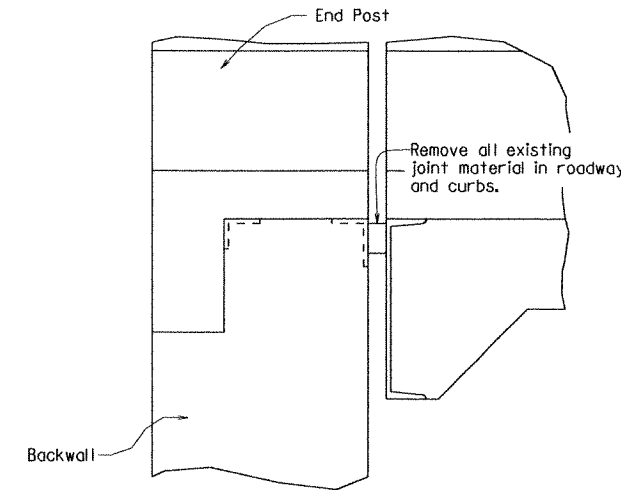
APPROXIMATE QUANTITIES FOR BACKWALL REPAIR ③

③ The Contractor shall make measurements at the locations designated by the Engineer for Backwall Repair prior to beginning work on the Bridge. Replacement concrete shall be Class S or (S/AE) or VESLMC. Reinforcing Steel shall conform to Section 804. Concrete shall be measured and paid for as "Very Early Strength Latex Modified Concrete (Variable Depth)". Structural Steel, Labor, Tools and Equipment shall not be paid for directly but shall be considered subsidiary to the item "Silicone Joint Sealant".

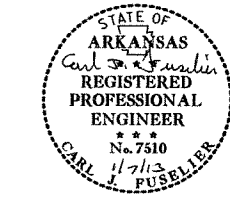


JOINT SEAL PLACEMENT AT CURB
No Scale

Note: Vertical joints may require forming. The clearance from deck surface to joint material shall be maintained.



REMOVAL DETAILS AT END BENTS
TYPE B JOINT REHABILITATION
No Scale



SHEET 2 OF 2
DETAILS OF
VERY EARLY STRENGTH
LATEX MODIFIED CONCRETE OVERLAY

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: SWP DATE: 12/21/12 FILENAME: bb0403_concoverlay.dgn
CHECKED BY: JGT DATE: 12/21/12 SCALE: NO SCALE
DESIGNED BY: JGT DATE: 12/12
BRIDGE NO. A5110, A&B5113 DRAWING NO. 53508
A&B5114

PRINT DATE: 07-JAN-2013

JOB NO.	BB0403
PROJECT	A5110 - LAYOUT - 53509
DATE	4/9/75
SCALE	1" = 20'

GENERAL NOTES

Bench Mark "NIR" 2A Elevation 1177.34 Sta. 1353+05, El. 410.50

All exposed corners of concrete shall be chamfered 3/8" unless otherwise noted.

All piling in and out to be 10" x 10" steel bearing piles driven to a bearing capacity of 40 tons per pile after the embankment is in place. Piles to be driven with an approved air, steam or diesel hammer. Order lengths shown; cut-off or build-up, if necessary, shall be made in accordance with the standard specification.

Footings shall be set a minimum of 1'-0" into material designated as shale. Rock excavations shall be made to true lines of concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured in the dry state, against excavated surfaces of rock.

For Channel Change details, see Drawing 14363

In general, all construction joints of piers shall be provided with keys not less than 18" high covering the middle third of both dimensions.

For End Bent details see Drwg. No. 14364 & 14365

For Interior Bent details see Drwg. No. 14366

For Composite beam details see Drwg. No. 14369

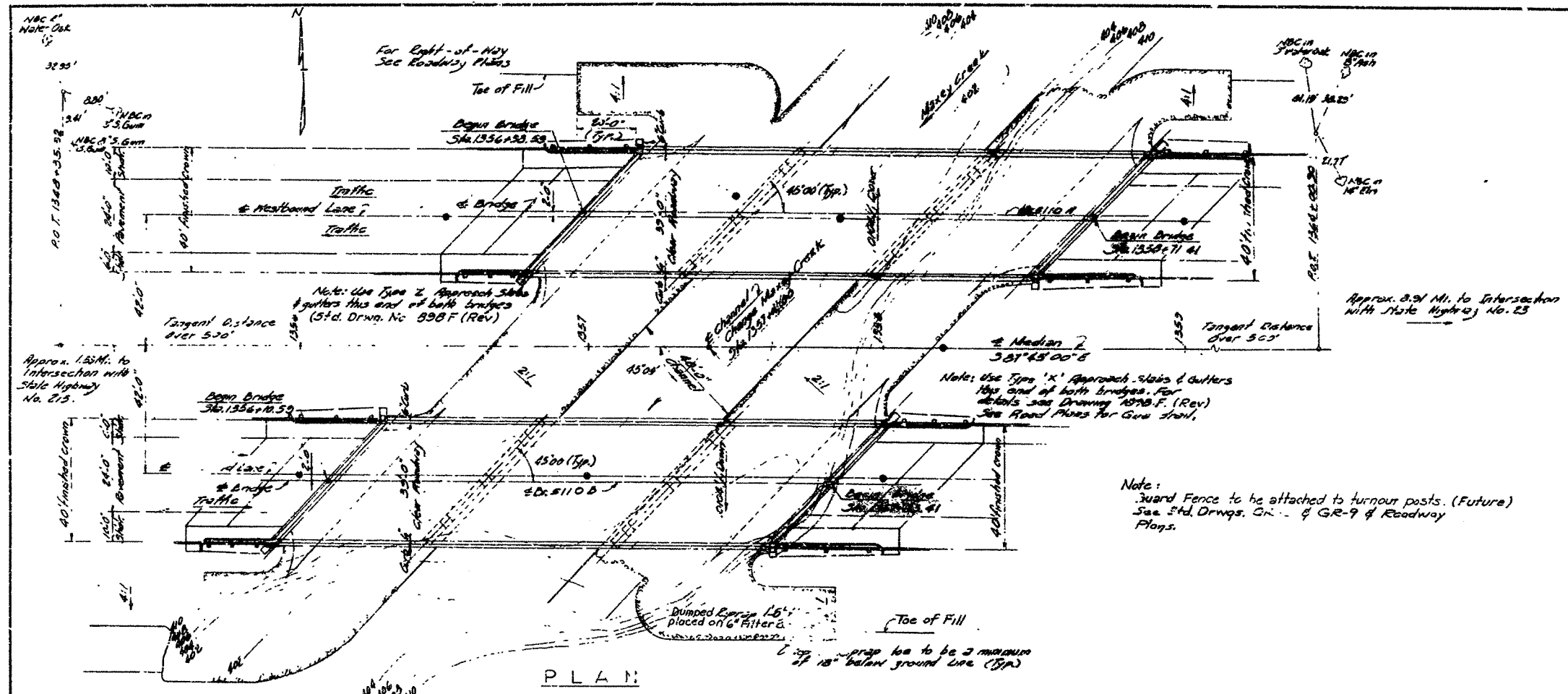
For Superstructure details see Drwg. No. 14367 through 14370.

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1962, the 1964 Supplemental Specifications thereto and applicable Special Provisions.

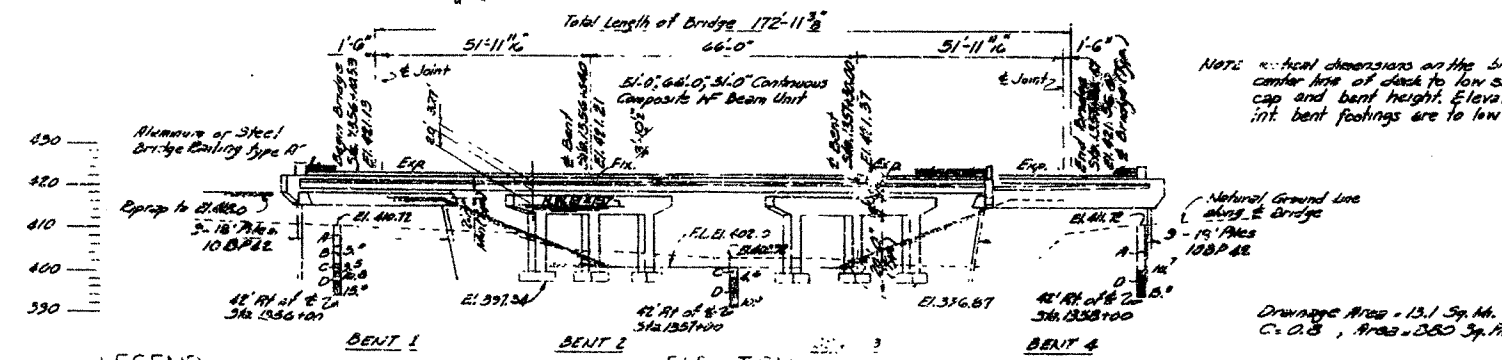
DESIGN SPECIFICATIONS: RR-540 1961

Design Live Load: HS 20-44 and special interstate loading of two 24,000 lb. axles 4'-0" on centers.

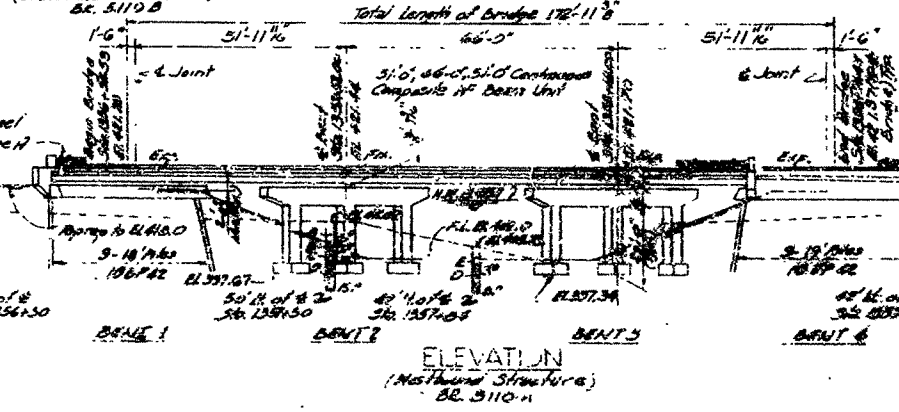
Unit Stresses: Class "A" Concrete ($f_c = 15$) 840 psi
 Class "S" Concrete ($f_c = 10$) 1,200 psi
 Reinforcing Steel 20,000 psi
 Structural Steel 20,000 psi
 Foundation Pressure 10,000 psi (or 2)



PLAN



ELEVATION



LEGEND

- A - Firm Brown Sandy Clay
- B - Med. Firm Brown Sandy clay-wed.
- C - Comp. clay gravel & small bould.
- D - Hard blue shale
- E - Firm clay gravel & sand
- F - Comp. clay & low sand.

FOR INFORMATION ONLY

LAYOUT OF DUAL BRIDGE
 OVER MAXEY CREEK
 HWY 215 - LONELM
 FRANKLIN COUNTY

PREPARED BY
BRIGHTON ENGINEERING COMPANY
 INT. ROUTE 40 SEC.
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

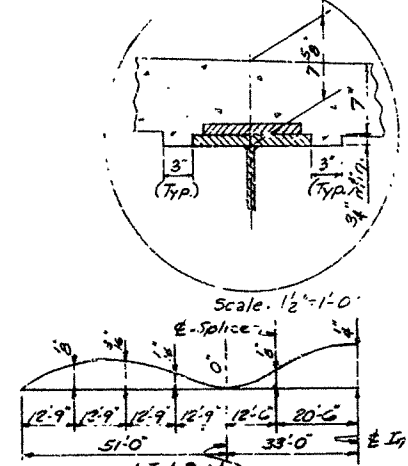
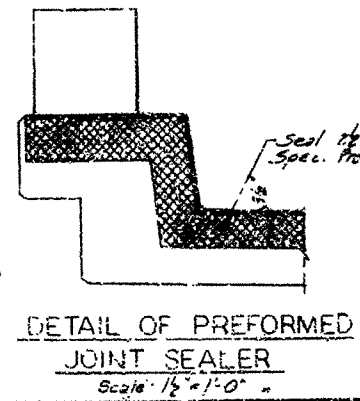
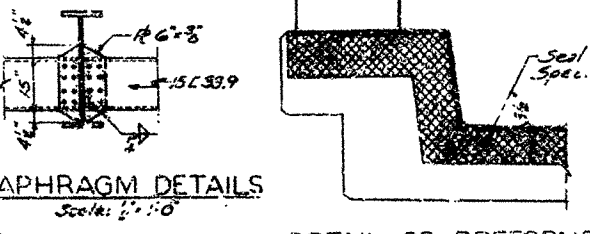
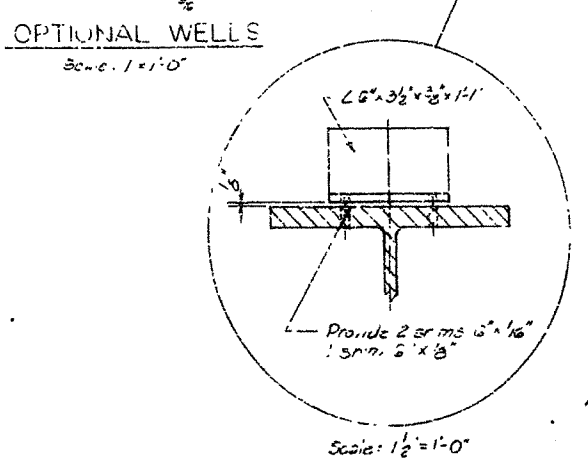
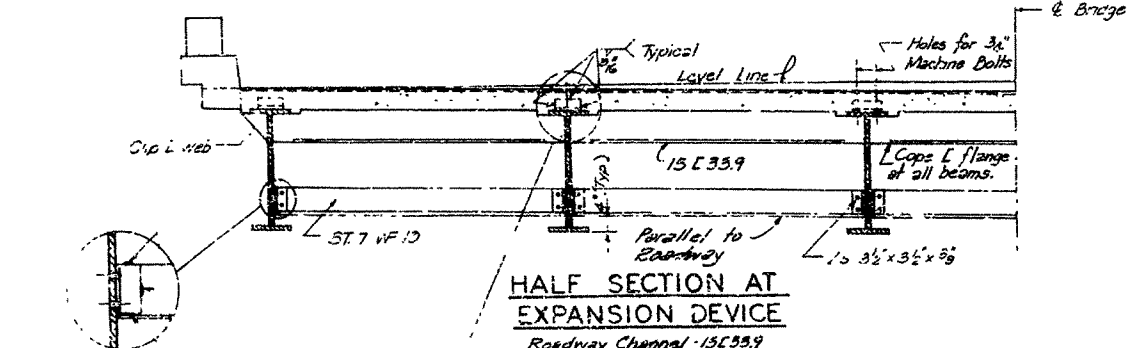
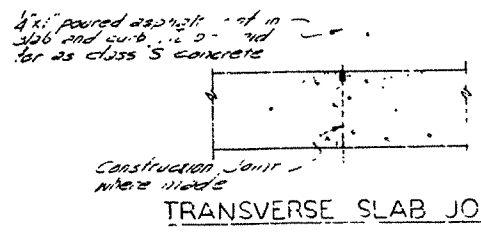
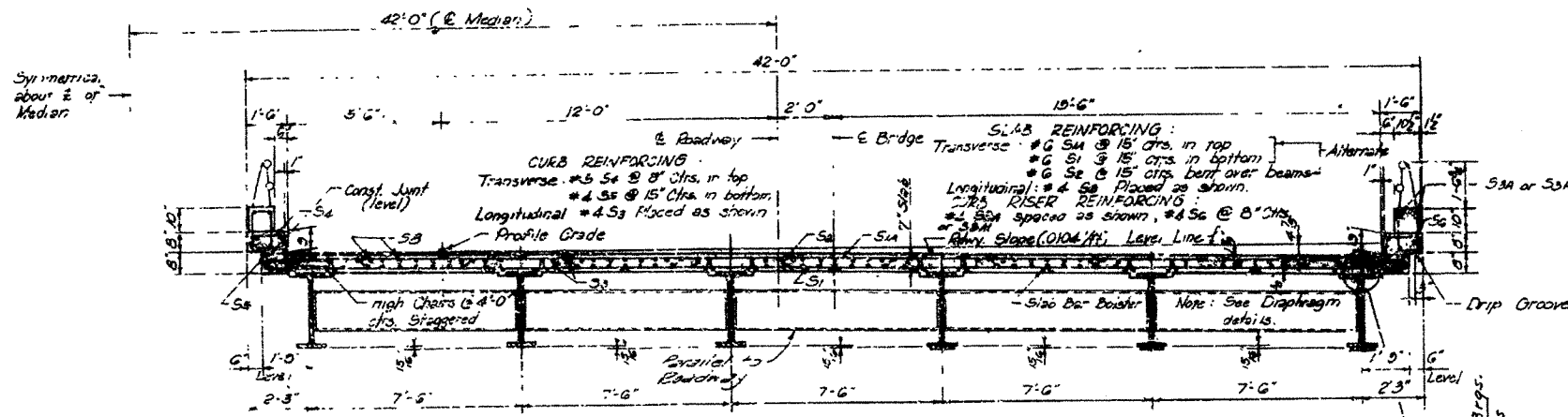
DRAWN BY: BJC DATE: 2-6-66
 TRACED BY: FGV DATE: 7-6-66
 CHECKED BY: FGV DATE: 7-6-66

BRIDGE NO. A5110 DRAWING NO. 53509

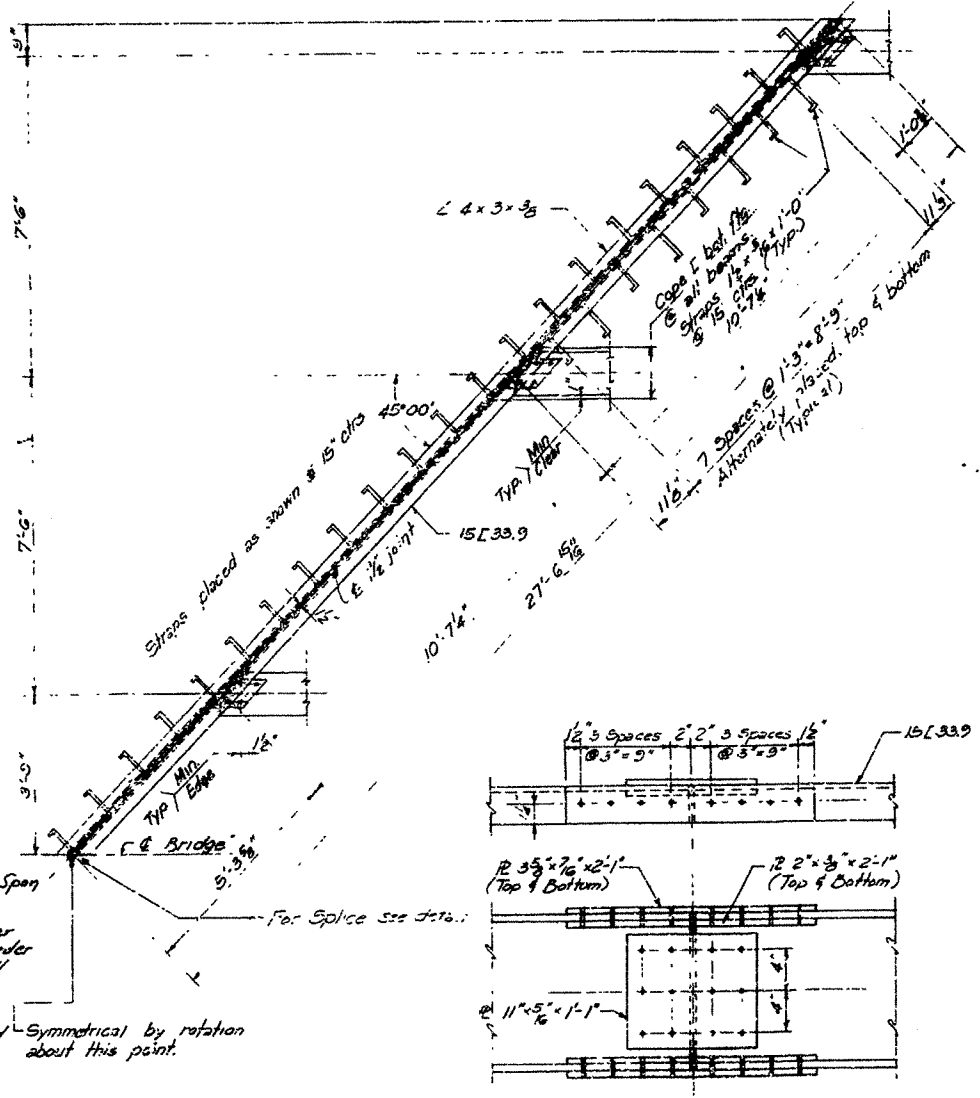
L.S. Brighton
 BRIDGE ENGINEER

FOR INFORMATION ONLY

PROJECT NO.	51	75
STATE	ARK.	
JOB NO.	BB0403	
A5110 - SUPERSTRUCTURE - 53511		

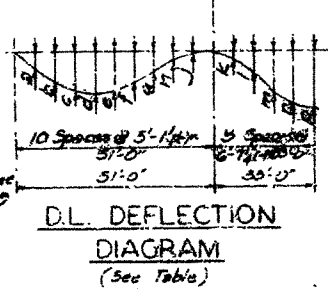


Beams are to be fabricated with the camber shown. All girders shall be cambered such that under total dead load the top of the girder webs will parallel the finished roadway grade, except allowable tolerance for camber is 1/8". All girders shall be shop assembled in their final position, field connector holes reamed, and all parts match marked. The shop assembly shall have a minimum assembled sequence of 2 sections.



EXPANSION DEVICE DETAILS

Point	Steel Deflection	Conc. Deflection	Int. Beam	Ext. Beam	NC Correction
a		1/16 in.	1/16 in.	1/16 in.	
b		3/16 in.	3/16 in.	3/16 in.	-1/16 in.
c	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
d	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
e	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
f	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
g	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
h	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
i	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
k	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
l	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
m	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
n	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.
o	1/16 in.	3/16 in.	3/16 in.	3/16 in.	-1/16 in.



DETAILS OF SPLICE EXPANSION DEVICE
Scale: 1/2" = 1'-0"

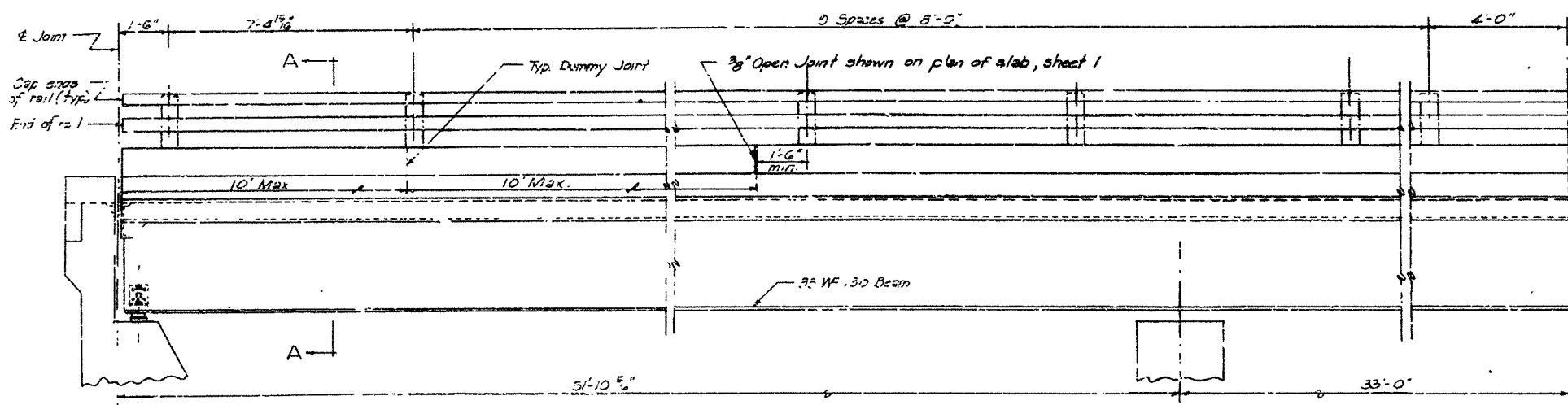
DETAILS OF SUPERSTRUCTURE
HWY. 215 - LONELM
OVER MAXEY CREEK
FRANKLIN COUNTY

SHEET 2
PREPARED BY
BRIGHTON ENGINEERING COMPANY
INT. ROUTE 40 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DESIGNED BY: J.S.M. DATE: 7-6-66
CHECKED BY: E.C.M. DATE: 7-6-66
SCALE: 1/2" = 1'-0" as noted

BRIDGE NO. A5110 DRAWING NO. 53511

REV. NO.	DATE	REV. BY	REV. DATE	REV. BY	REV. DATE
6	ARK.			53	75
JOB NO.		BB0403			
A5110 - SUPERSTRUCTURE - 53513					



ELEVATION TYPE 'A' RAILING
Scale: 1/2" = 1'-0"

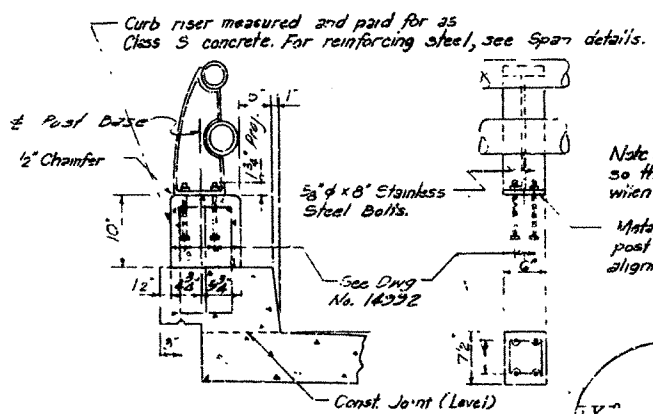
Symmetrical by rot. about this line.

FOR INFORMATION ONLY

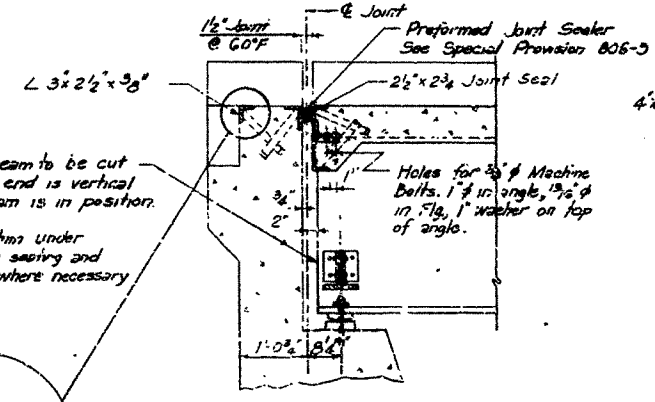
GENERAL NOTES

All concrete to be Class 3 A; exposed corners to be chamfered 3/4" unless otherwise noted.
 Field connections to be riveted or bolted with high strength bolts.
 Rivets: 3/4" ϕ , open holes 1 1/2" ϕ except otherwise noted.
 Structural shapes of equal or greater strength may be substituted for shapes shown, but payment will be made on this basis of shapes shown or those actually used, whichever is less.
 All welded connections to be 3/16" fillet shop welds except as noted. All welding shall conform to the American Welding Society Standard Specifications for Welded Highway and Railway Bridges, current edition.
 Shop Paint: All structural steel, except surfaces in contact with concrete, shall be given one coat of red lead and raw linseed oil before shipment.
 Field Paint: First coat - red lead tinted with lamp black. Second coat - aluminum paint.
 No shop paint shall be applied to top flanges or edges of top flange of beams and shear connectors or at points of welded or bolted splices including splice plates.
 Finish surfaces to receive one shop coat of white lead and oil.
 All metal bearing and roadway expansion devices to be paid for as "Structural Steel in Beam Spans". Bearings shall be finally seated in accordance with Sec. 806.54, including alternate, of the Std. Specs. This work and material are to be considered to be subsidiary to the item "Structural Steel in Beam Spans" and will not be paid for directly.
 All steel shall be ASTM A-36 unless otherwise noted.
 Anchor bolts shall be galvanized to conform to ASTM Specification, Designation A153.
 Reinforcing steel to be deformed bars of intermediate or hard grade. The reinforcing steel is to be accurately located in the forms and firmly held in place by steel wire supports, sufficient in number and size to prevent displacement during the course of construction. The wire supports will not be paid for directly, but will be considered subsidiary to the item of "Reinforcing Steel".
 Shop lists and bending diagrams of reinforcing steel, including wire supports, shall be submitted and approved before fabrication is begun.
 All chamfers on concrete riser for rail are to be 1/2".
 Shop drawings showing details of railing shall be submitted and approved before fabrication is begun.
 For details of Bridge Railing, see Dwg. No. 14292 as shown on Bridge 16, out.
 This drawing shows general features of design only. Shop drawings shall be made in accordance with the Specifications, submitted and approved before fabrication is begun.

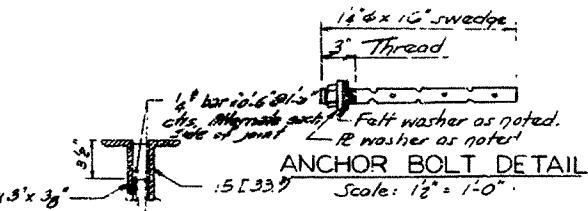
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959, the 1966 Supplement and applicable Special Provisions.



DETAILS OF TYPE 'A' RAILING
Scale: 1" = 1'-0"



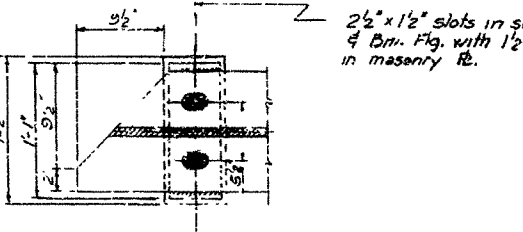
JOINT AT END BENT
Scale: 3/4" = 1'-0"



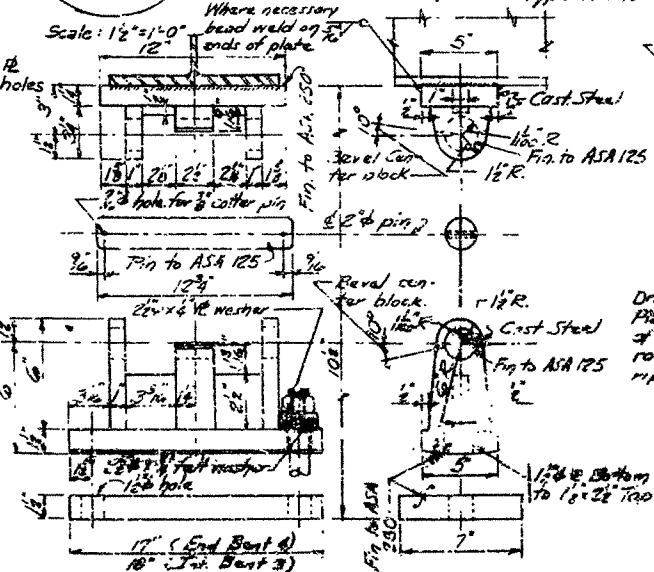
ANCHOR BOLT SUPPORT DETAIL
Scale: 1 1/2" = 1'-0"

As an alternate for straps, 3/8" ϕ x 10" automatically welded stud anchors granular fill, solid fluted, or equal, may be used. Use weight of straps as basis of measurement of structural steel in anchors.

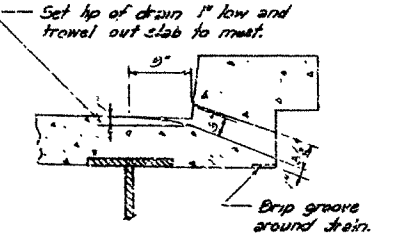
ALTERNATE ANCHOR DETAIL
Scale: 1" = 1'-0"



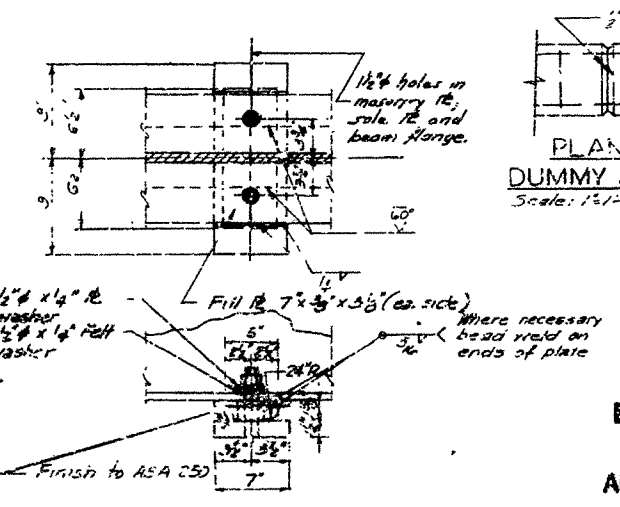
TYPE 'B' EXPANSION SHOE AT END BENT 1
Scale: 1 1/2" = 1'-0"



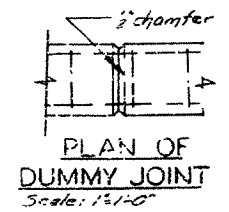
TYPE 'A' EXPANSION SHOE AT INT BENT 3 AND END BENT 4
Scale: 1" = 1'-0"



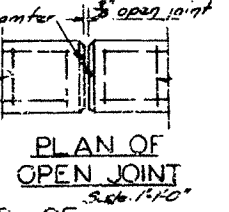
SECTION THRU DRAIN
Scale: 1" = 1'-0"



TYPE 'B' FIXED SHOE AT INT BENT 2
Scale: 1 1/2" = 1'-0"



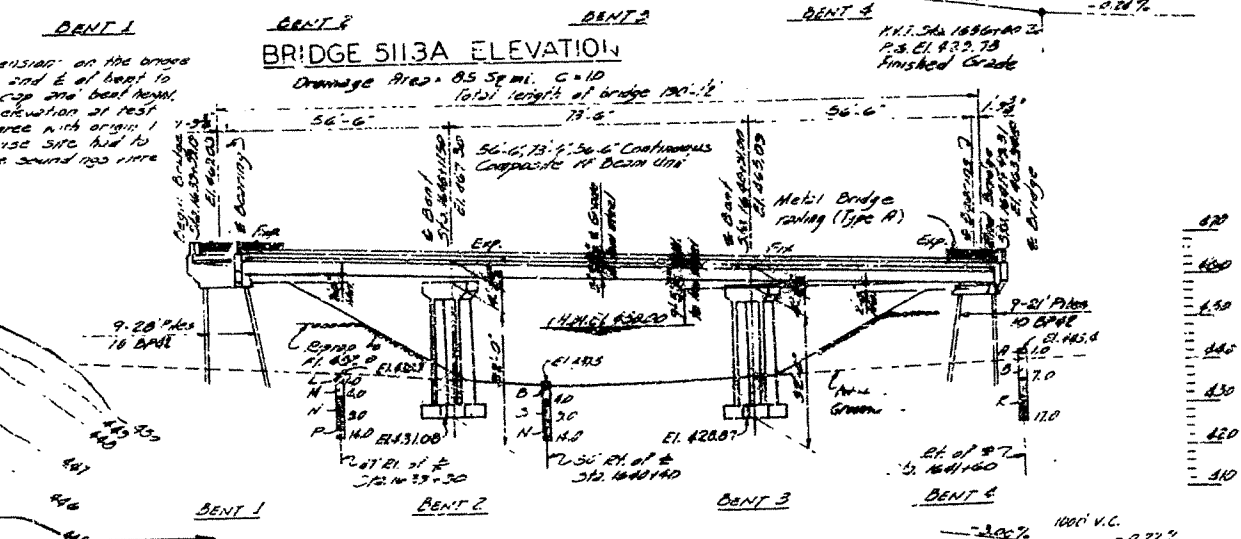
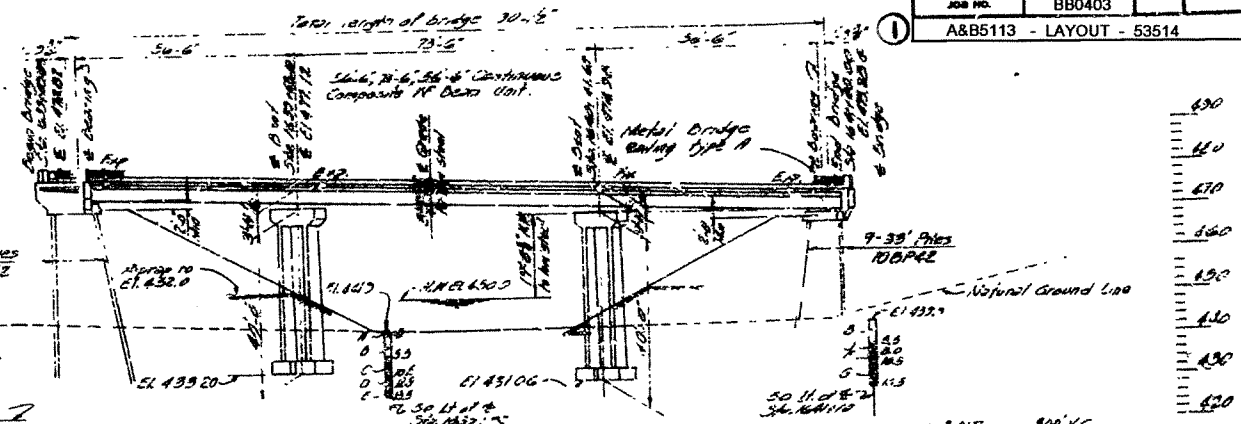
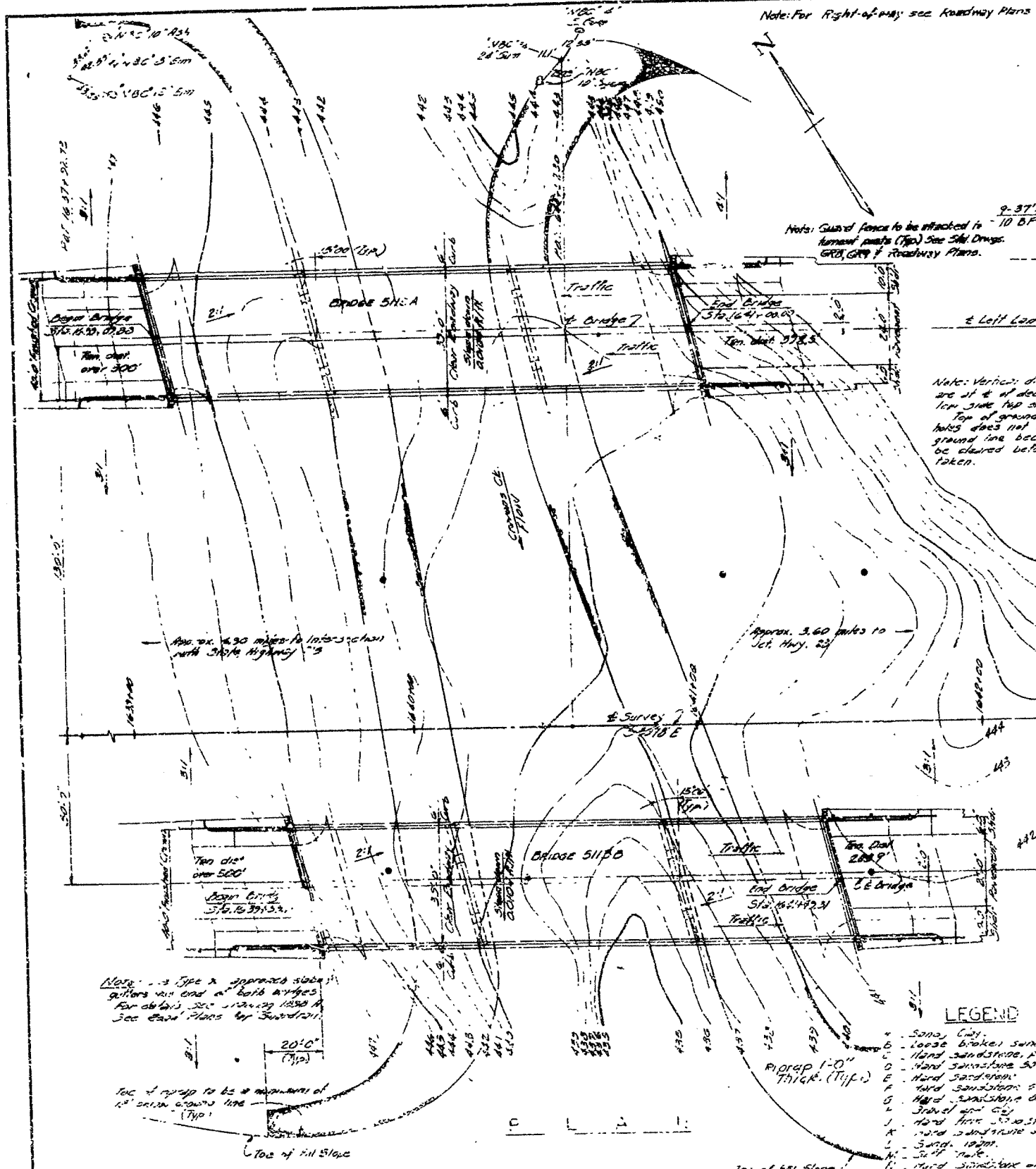
PLAN OF DUMMY JOINT
Scale: 1 1/2" = 1'-0"



PLAN OF OPEN JOINT
Scale: 1 1/2" = 1'-0"

DETAILS OF SUPERSTRUCTURE
 HWY. 215 - LONELM
 OVER MAXEY CREEK
 FRANKLIN COUNTY
 SHEET 4
 PREPARED BY
BRIGHTON ENGINEERING COMPANY
 INT. ROUTE 40 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: J.S.M. DATE: 7-7-56
 CHECKED BY: P.S.M. DATE: 10-56
 SCALE: As Noted
 BRIDGE NO. A5110 DRAWING NO. 53513

PROJECT NO.	DATE	SCALE	SHEET NO.	TOTAL SHEETS
C ARK.			54	75
JOB NO.	BB0403			
A&B5113 - LAYOUT - 53514				



GENERAL NOTES

NOTE: Use Type 2 Approach Slabs & gutters this end of both bridges. See Roadway Plans & Guardrail.

T.O.M. (M-1) 'NIP' of Pool Oak 2' RH Sta 1607+40. El. 428.81. (& Survey).

All concrete to be Class 5 except for Bent footings, walls & columns, which shall be Class A.

All exposed corners of concrete shall be chamfered & unless otherwise noted.

All steel in end bents to be 10 BPF#2 steel bearing piles driven to bearing capacity of 1.5 tons per pile and to the material designated as such on the boring logs after the embedment is in place. Piles to be driven with an approved air, steam, or diesel hammer. Drive lengths shown; cut-off or build-up, if necessary, shall be per lot in accordance with Standard Specifications.

Footings shall be set a minimum of 1.0' to rock. Rock excavations shall be made in new lots of concrete footings. Care shall be exercised in chisel chipping of rock faces by excessive use of hammer in footings. Shall be suited in the 3' vicinity against excavated surfaces of rock.

In general, all construction joints & walls shall be provided with keys not less than 12" high covering the middle 1/2 of both directions.

For End Post details see Dwg. No. 14391 & 14392.

For Interior Bent details see Dwg. No. 14393.

For Composite deck action see Dwg. No. 14394.

For Superstructure details see Dwg. No. 14395, 14396 & 14397.

For Bridge Railing details see Dwg. No. 14398.

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959, As Amended, Specifications thereon, and applicable Special Provisions.

DESIGN SPECIFICATIONS: AASHTO 1961 Design Live Load: HS 20-44 with special intermediate loads at 10' and 20' from center.

Wind Stresses: ASCE 7-61, 1961, 20 mph center.

Soil Stresses: ASCE 7-61, 1961, 1.0'.

Temperature: ASCE 7-61, 1961, 4.36.

Earthquake Pressure: ASCE 7-61, 1961, 0.15.

Class 7 Concrete (1-3)

- LEGEND**
- A - Sand, Clay
 - B - Loose broken sandstone
 - C - Hard sandstone, part layers
 - D - Hard sandstone 50% block state
 - E - Hard sandstone
 - F - Hard sandstone 50% block state
 - G - Hard sandstone 50% block state
 - H - Sandstone
 - I - Hard fine sandstone
 - J - Hard sandstone and black shale
 - K - Sand, clay
 - L - Soft shale
 - M - Hard sandstone with 10% gravel
 - N - Hard sandstone and 30% black shale
 - O - Hard sandstone and black shale
 - P - Hard sandstone and black shale
 - Q - Hard sandstone and black shale

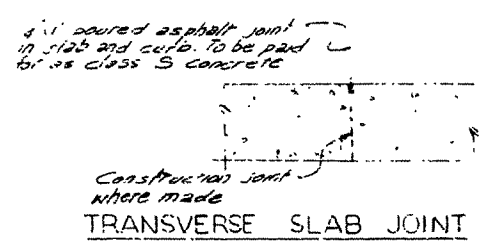
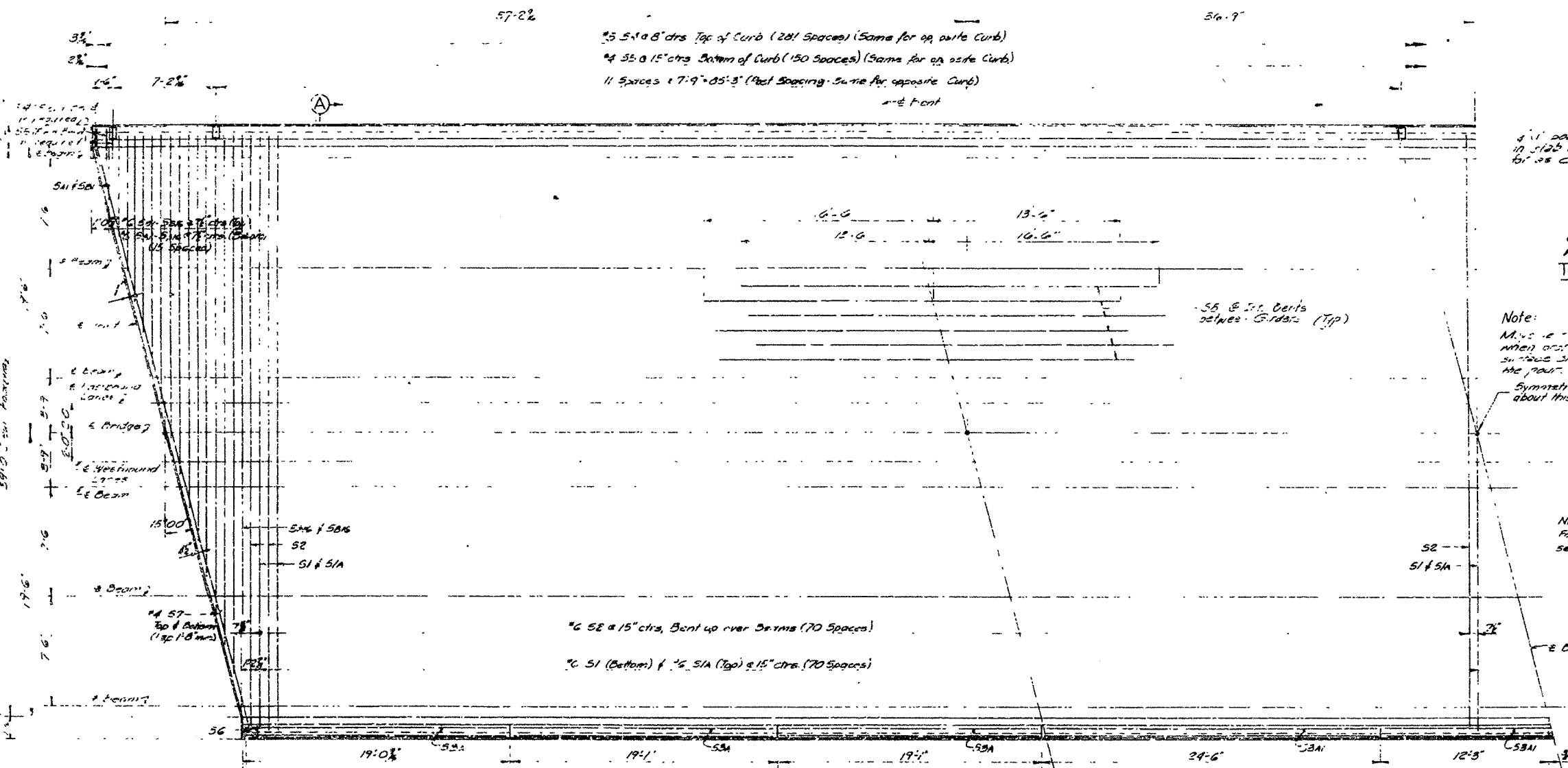
LAYOUT OF DUAL BRIDGE
OVER CRAVER'S CREEK
LONELM - JCT. HWY. 23
FRANKLIN COUNTY

PREPARED BY
BRIGHTON ENGINEERING COMPANY
INT. ROUTE 40 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

FOR INFORMATION ONLY

DESIGN BY: [Signature] DATE: 1-66
CHECKED BY: [Signature] DATE: 1-66
BRIDGE NO. A&B5113 DRAWING NO. 53514

PROJECT NO.	STATE	CIVIL DIV.	FEEDING	DATE	TOTAL SHEETS
6	ARK.			55	75
JOB NO.	BB0403				
A&B5113 - SUPERSTRUCTURE - 53515					

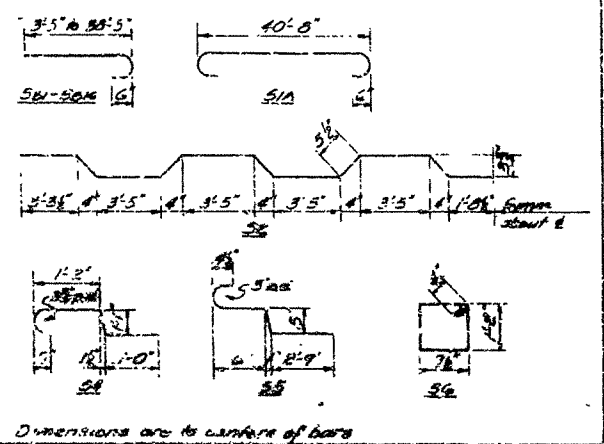


Note:
 All poured asphalt joint in slab and curb to be paid for as class S concrete.
 Construction joint where made

NOTE:
 For additional details & Section A-A, see 'ing. 14325.

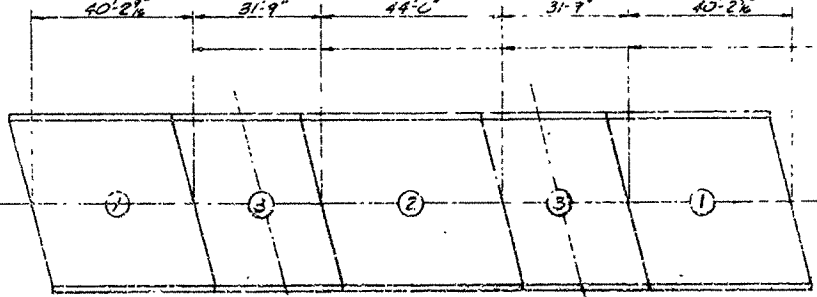
BAR LIST - ONE BRIDGE

MARK	SIZE	LENGTH	NUMBER	QTY	DA.
S1	6	40'-8"	141	51r	
S1A to S1AK	6	31'-3"	2	51r	
S1A	6	42'-1"	141	3r	
S2	6	41'-10"	142	28	
S3	5	39'-5"	452	51r	
S3A	4	40'-7"	24	51r	
S3A'	4	38'-8"	12	51r	
S4	5	31'-10"	362	17r	
S5	4	41'-0"	302	15	
S6	4	40'-2"	302	15	
S7	4	39'-5"	2	51r	
S8 & S9	6	31'-3"	2	51r	
S10	3	30'-0"	20	51r	



Dimensions are to centers of bars

HALF PLAN



SLAB POURING SEQUENCE

Slab is to be poured in the order shown in the diagram. The first section to be poured is the curb. The second section is the deck. The third section is the deck. The fourth section is the deck. The fifth section is the deck. The sixth section is the deck. The seventh section is the deck. The eighth section is the deck. The ninth section is the deck. The tenth section is the deck. The eleventh section is the deck. The twelfth section is the deck. The thirteenth section is the deck. The fourteenth section is the deck. The fifteenth section is the deck. The sixteenth section is the deck. The seventeenth section is the deck. The eighteenth section is the deck. The nineteenth section is the deck. The twentieth section is the deck. The twenty-first section is the deck. The twenty-second section is the deck. The twenty-third section is the deck. The twenty-fourth section is the deck. The twenty-fifth section is the deck. The twenty-sixth section is the deck. The twenty-seventh section is the deck. The twenty-eighth section is the deck. The twenty-ninth section is the deck. The thirtieth section is the deck. The thirty-first section is the deck. The thirty-second section is the deck. The thirty-third section is the deck. The thirty-fourth section is the deck. The thirty-fifth section is the deck. The thirty-sixth section is the deck. The thirty-seventh section is the deck. The thirty-eighth section is the deck. The thirty-ninth section is the deck. The fortieth section is the deck. The forty-first section is the deck. The forty-second section is the deck. The forty-third section is the deck. The forty-fourth section is the deck. The forty-fifth section is the deck. The forty-sixth section is the deck. The forty-seventh section is the deck. The forty-eighth section is the deck. The forty-ninth section is the deck. The fiftieth section is the deck. The fifty-first section is the deck. The fifty-second section is the deck. The fifty-third section is the deck. The fifty-fourth section is the deck. The fifty-fifth section is the deck. The fifty-sixth section is the deck. The fifty-seventh section is the deck. The fifty-eighth section is the deck. The fifty-ninth section is the deck. The sixtieth section is the deck. The sixty-first section is the deck. The sixty-second section is the deck. The sixty-third section is the deck. The sixty-fourth section is the deck. The sixty-fifth section is the deck. The sixty-sixth section is the deck. The sixty-seventh section is the deck. The sixty-eighth section is the deck. The sixty-ninth section is the deck. The seventieth section is the deck. The seventy-first section is the deck. The seventy-second section is the deck. The seventy-third section is the deck. The seventy-fourth section is the deck. The seventy-fifth section is the deck. The seventy-sixth section is the deck. The seventy-seventh section is the deck. The seventy-eighth section is the deck. The seventy-ninth section is the deck. The eightieth section is the deck. The eighty-first section is the deck. The eighty-second section is the deck. The eighty-third section is the deck. The eighty-fourth section is the deck. The eighty-fifth section is the deck. The eighty-sixth section is the deck. The eighty-seventh section is the deck. The eighty-eighth section is the deck. The eighty-ninth section is the deck. The ninetieth section is the deck. The ninety-first section is the deck. The ninety-second section is the deck. The ninety-third section is the deck. The ninety-fourth section is the deck. The ninety-fifth section is the deck. The ninety-sixth section is the deck. The ninety-seventh section is the deck. The ninety-eighth section is the deck. The ninety-ninth section is the deck. The one hundred section is the deck.

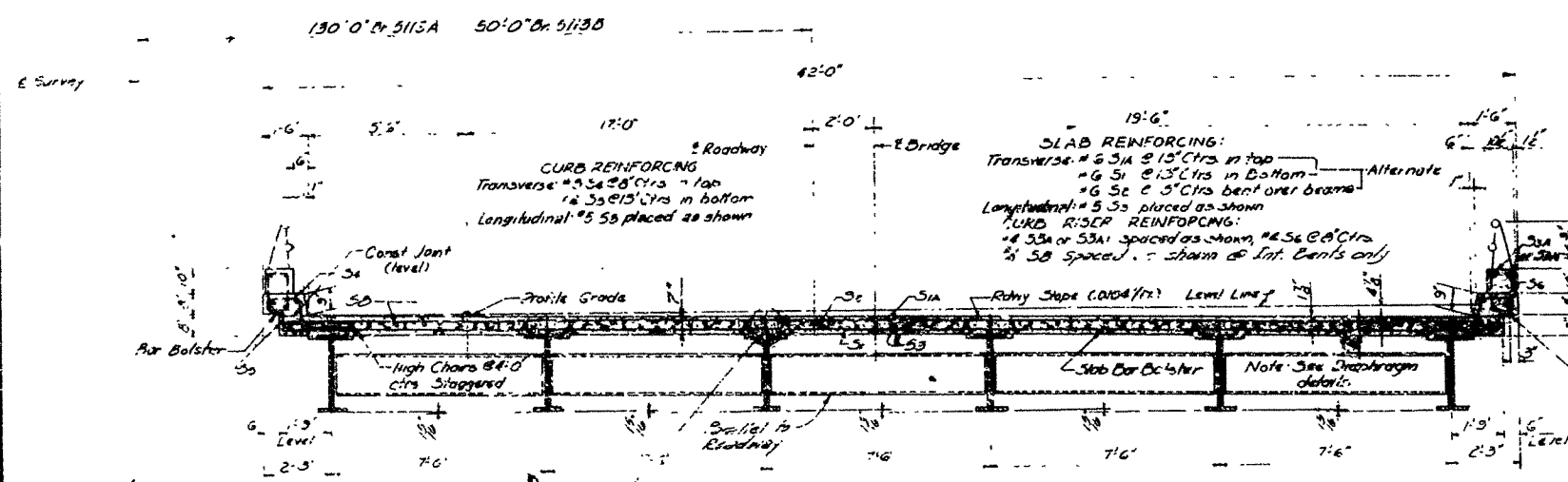
FOR INFORMATION ONLY

DETAILS OF SUPERSTRUCTURE
 LONELM-JCT. HWY. 23
 OVER CRAVENS CREEK
 FRANKLIN COUNTY

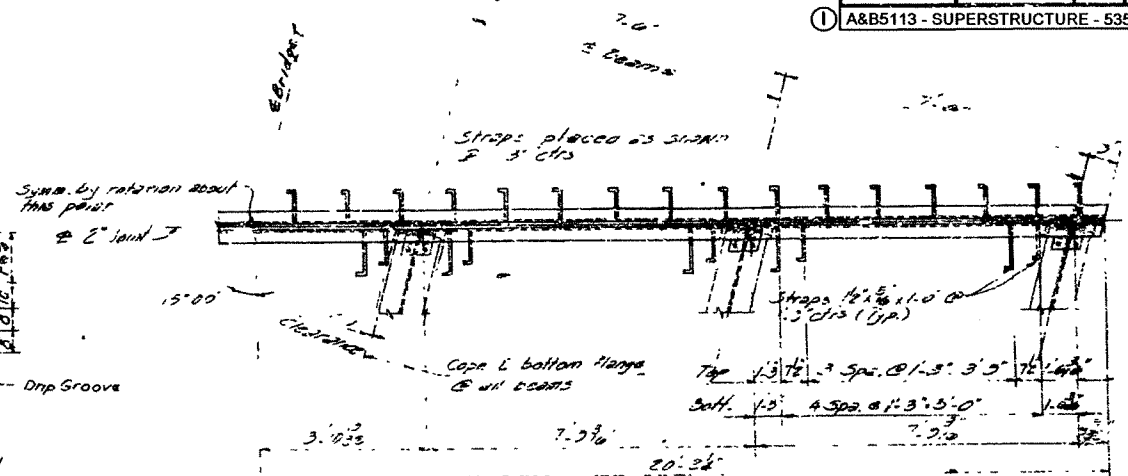
BRIGHAM ENGINEERING COMPANY
 INT. ROUTE 40 SEC. 1
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

BRIDGE NO. A&B5113 DRAWING NO. 53515

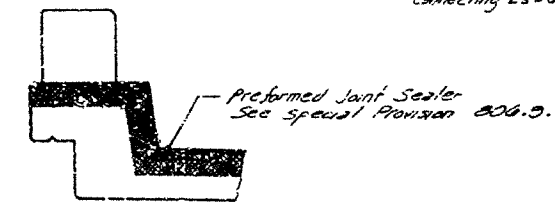
PLAN SHEET NO.	6	STATE	ARK.	PROJECT NO.	BB0403	SHEET NO.	56	TOTAL SHEETS	76
A&B5113 - SUPERSTRUCTURE - 53516									



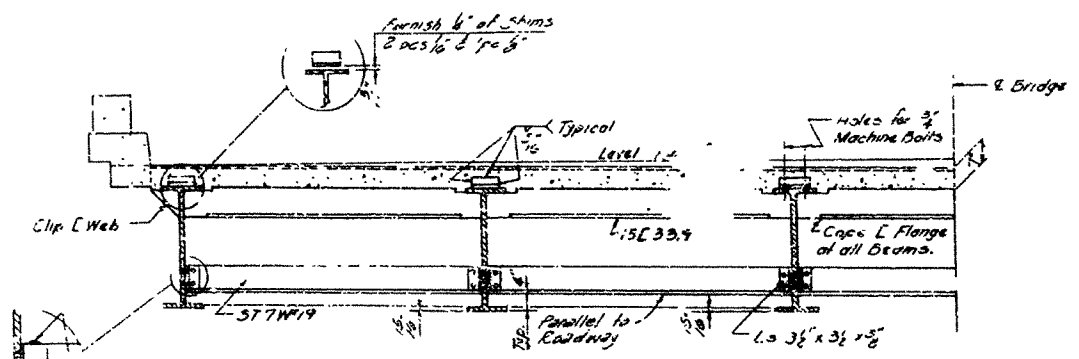
SECTION A-A
Scale: 3/8"=1'-0"
Dr. 5113 A looking back at Stations
Dr. 5113 C looking forward at Stations



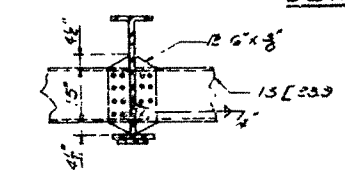
EXPANSION DEVICE DETAILS
Scale: 8"=1'-0"
EXPANSION DEVICE
Roadway Channel: 15L33.9
Connecting Ls - 6" x 3 1/2" x 3"



DETAIL OF PREFORMED JOINT SEALER
Scale: 1"=1'-0"



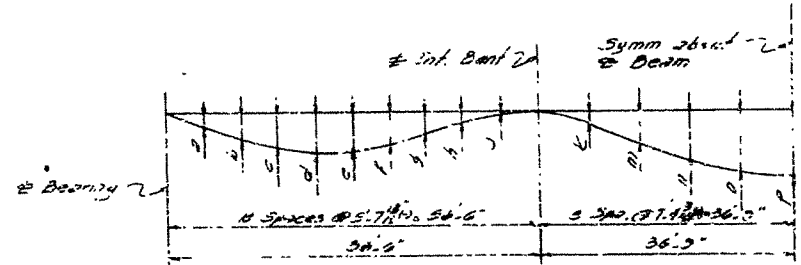
HALF SECTION AT EXPANSION DEVICE
Scale: 1/2"=1'-0"



DIAPHRAGM DETAILS
Scale: 1/2"=1'-0"

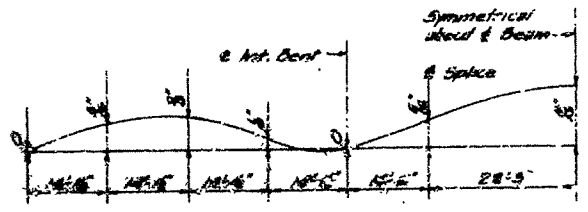
DESIGN SPECIFICATIONS: AASHTO 1361
LIVE LOAD:
 HS20 (AASHTO 1961) and special interstate loading of 2-80,000 lb. axles spaced at 4'-0" on centers.
 1. Dead Load per ft. (Type A Rail) **Interior Beams** **Exterior Beams**
 a. To 4" 316 lb 437 lb
 b. To Composite 150 lb 190 lb
 2. Live Load to each composite beam 1,362c wheel/1 span 1,276c wheel/1 span

OPTIONAL WELDS
Scale: 1"=1'-0"



D.L. DEFLECTION DIAGRAM
(See Table)

Point	Span Deflection	Diaphragm Deflection
A	0.000	0.000
B	0.000	0.000
C	0.000	0.000
D	0.000	0.000
E	0.000	0.000
F	0.000	0.000
G	0.000	0.000
H	0.000	0.000
I	0.000	0.000
J	0.000	0.000
K	0.000	0.000
L	0.000	0.000
M	0.000	0.000
N	0.000	0.000
O	0.000	0.000
P	0.000	0.000

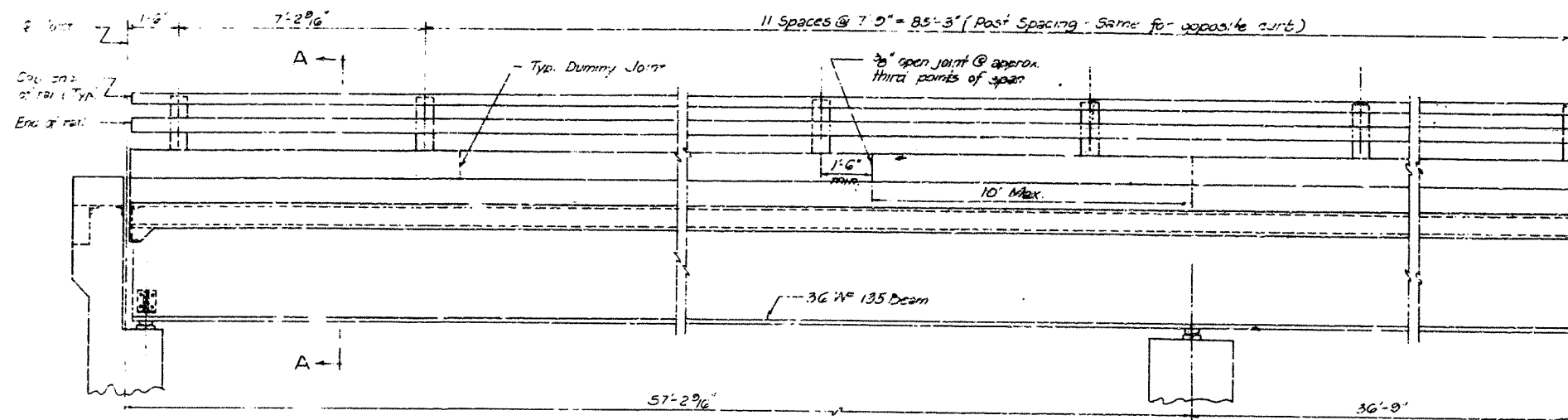


CAMBER DIAGRAM

FOR INFORMATION ONLY

DETAILS OF SUPERSTRUCTURE
 LONELM - JCT. HWY. 23
 OVER CRAVENS CREEK
 FRANKLIN COUNTY
 BRIGHTON ENGINEERING COMPANY
 157 SOUTH 40 WEST
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: [Name] CHECKED BY: [Name]
 DATE: [Date] DATE: [Date]
 BRIDGE NO. A&B5113 DRAWING NO. 53516

REV. NO.	DATE	REV. NO.	DATE
6	ARK.	58	75
JOB NO. BB0403		A&B5113 - SUPERSTRUCTURE - 53518	



ELEVATION TYPE A RAILING
Scale: 1/2" = 1'-0"

GENERAL NOTES

All concrete to be Class S. All exposed corners to be chamfered 3/4" unless otherwise noted.

Field connections to be riveted or bolted with high strength bolts.

Rivets: 3/4" dia. Open holes 1 1/8" dia. except at beam splices. At beam splices use 3/8" rivets; open holes 1 1/4" dia.

Structural shapes of equal or greater strength may be substituted for shapes shown, but payment will be made on the basis of the shapes shown or those actually used, whichever is less.

All welded connections to be 3/16" fillet shop welds, except as noted. All welding shall conform to the American Welding Society Standard Specifications for Welded Highway and Railway Bridges, current edition.

Shop Paint: All structural steel, except surfaces in contact with concrete, shall be given one coat of red lead and raw linseed oil before shipment.

Field Paint: First coat - red lead tinted with lamp black. Second coat - aluminum paint.

No shop paint shall be applied to top flanges or edges of top flanges of beams and shear connections at points of welded or bolted splices including splice plates.

Finish surfaces to receive one shop coat of white zinc oxide paint.

All metal bearing and roadway expansion surfaces to be galvanized.

Structural steel in beam splices: Expansion shall be fitted under all conditions with the proper installing schedule, and the expansion shall be secured in place by the contractor to be satisfactory to the engineer.

Splices: End weld not to exceed 12" dia.

All steel shall be ASTM A-36, unless otherwise noted.

Anchor bolts shall be galvanized to conform to ASTM specifications, designation A153.

Reinforcing steel to be deformed bars of intermediate or hard grade. The reinforcing steel is to be accurately located in the forms and firmly held in place by steel wire supports, sufficient in number and size to prevent displacement during the course of construction. This work shall not be paid for directly, but will be considered subsidiary to the cost of Reinforcing Steel.

Shop lists and bending diagrams of reinforcing steel, including wire supports, shall be submitted and approved by the engineer before placement in concrete.

All expansion in concrete pier for rail are to be 2".

Shop drawings showing details of railing shall be submitted and approved before fabrication is begun.

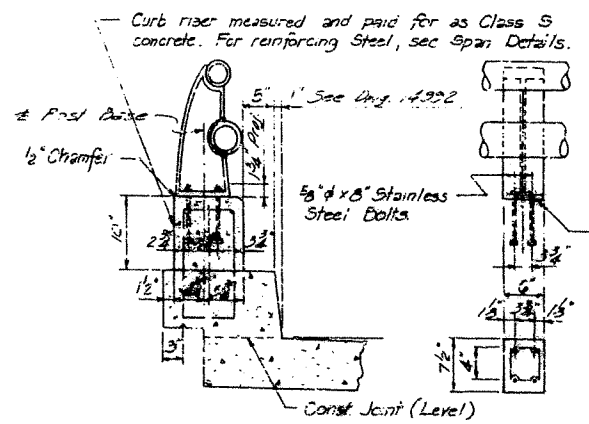
For details of Bridge Railing, see Div. No. 14398 as shown on Bridge Layout.

This drawing shows general features of construction. It is not intended to be used in place of the specifications, submittals and approved shop drawings.

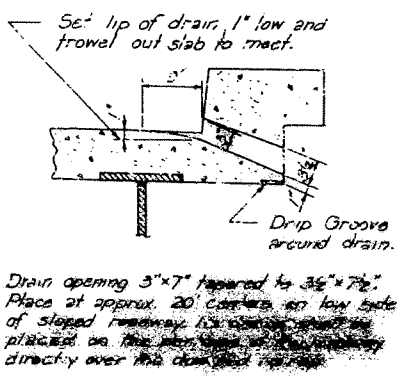
Local Supplemental Specifications shall apply.

REFERENCES: Arkansas State Highway Commission Standard Specifications for Highway Construction Edition of 1959, the 1958 Supplemental Specifications thereto and applicable Special Provisions.

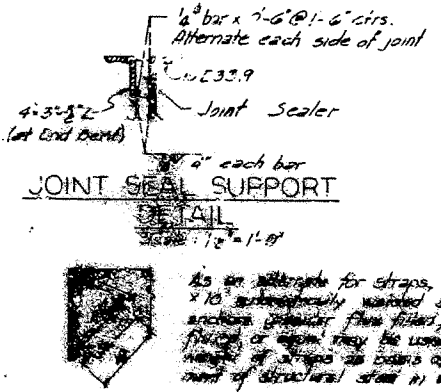
Note: For additional details and Section 3-A, see Div. 14395.



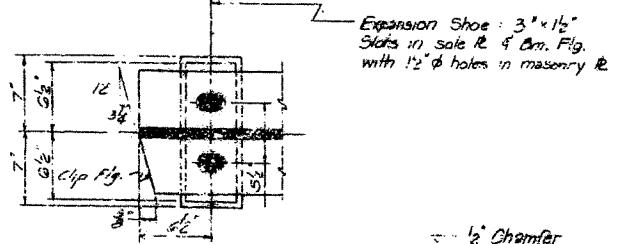
DETAILS OF TYPE A RAILING
Scale: 1" = 1'-0"



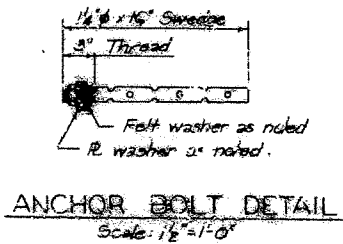
SECTION THRU DRAIN
Scale: 1" = 1'-0"



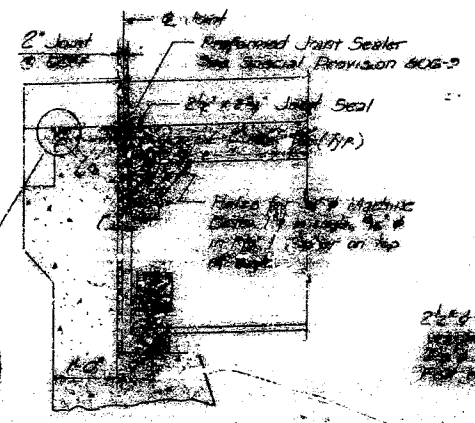
ALTERNATE ANCHOR DETAIL
Scale: 1" = 1'-0"



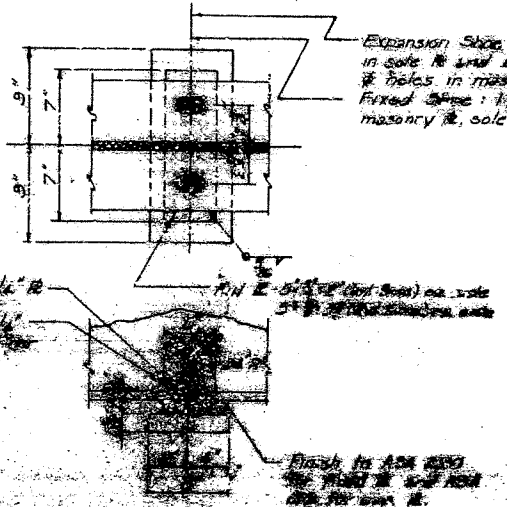
TYPE B EXPANSION SHOE AT END BENTS
Scale: 1 1/2" = 1'-0"



ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"



JOINT AT END BEAM
Scale: 1 1/2" = 1'-0"



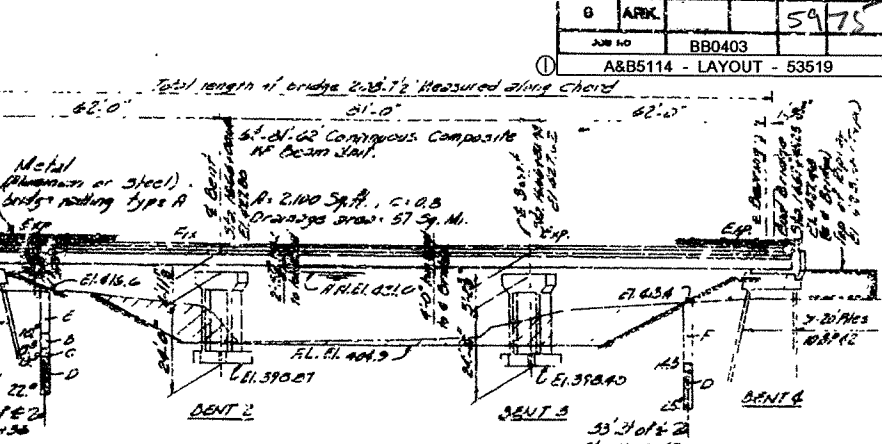
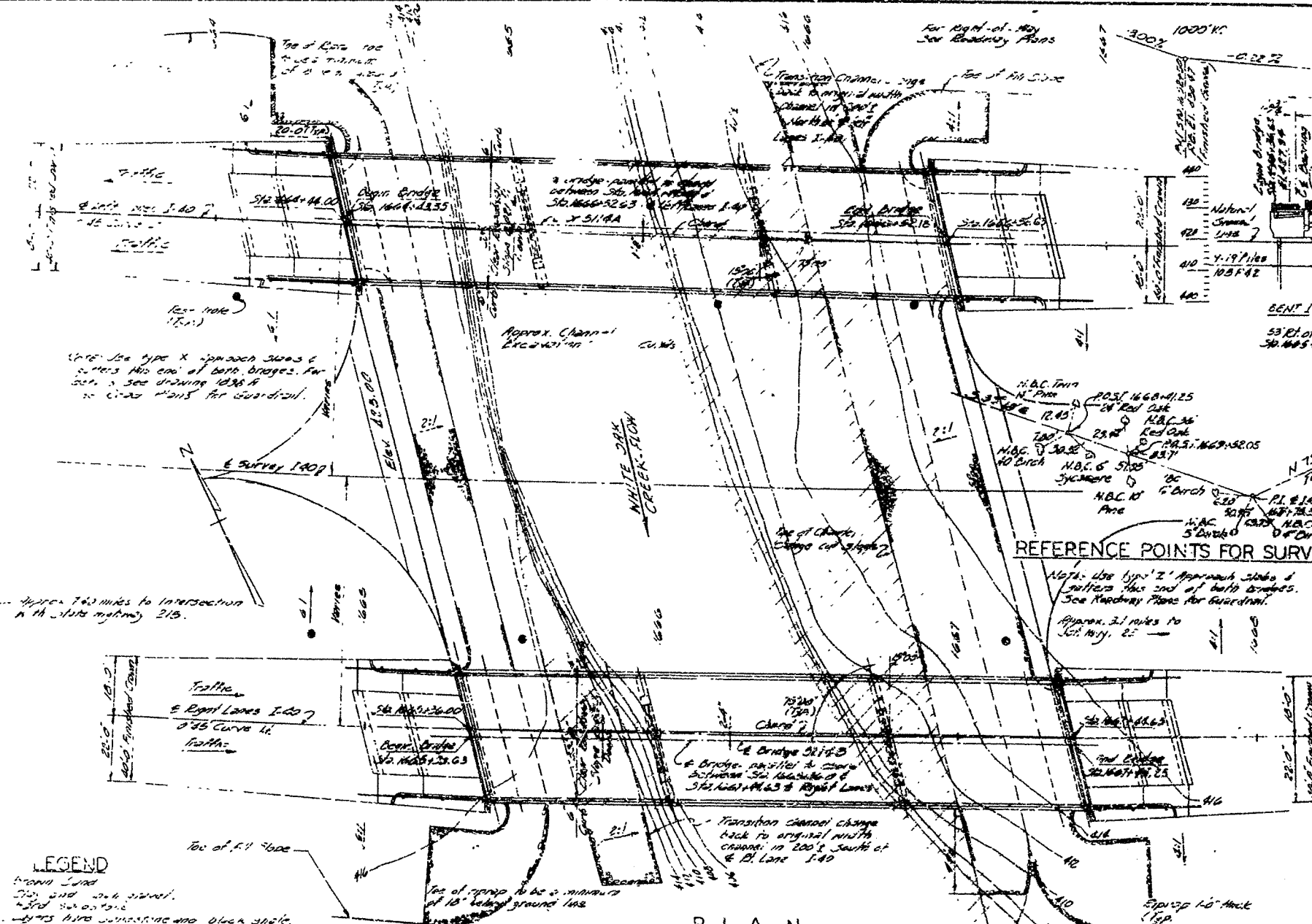
TYPE B FIXED ON EXP. SHOE AT JOINT BENTS

FOR INFORMATION ONLY

DETAILS OF SUPERSTRUCTURE
LOWE LUM - JCT. HWY 83
OVER GREENS CREEK
FRANKLIN COUNTY

BRUSH ENGINEERING COMPANY
INT. ENGINEER
ARIZONA STATE HIGHWAY COMMISSION
BRIDGE NO. A&B5113 DRAWING NO. 53518

DATE	REV. AIR	PRG. YEAR	REV. NO.	TOTAL
6 APR.			5	75
JOB NO.	BB0403			
A&B5114 - LAYOUT - 53519				



**RIGHT ELEVATION
BR 5114B
GENERAL NOTES**

T.O.M. 3 (N-1) N12°30' E, 4 1/4 MI. Sta. 1636+60. El. 116.12 & Survey (Tangent)

All concrete to be poured in the dry. All exposed corners of concrete shall be chamfered 1/4" unless otherwise noted. All concrete to be Class 5 except for beam (bearing) webs and footings are to be Class 1 concrete.

All rebar in end bents to be 10 #E2 steel bearing plates driven with an approved air stream or diesel hammer to a bearing capacity of 40 tons per pile and to the material designated as shale after the examination is in place. Order lengths shown, cut-off or bent-up if necessary, shall be paid for in accordance with the standard specifications.

Footings shall be set a minimum of 1'-0" in to rock. Rock excavations shall be made to rest on concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured in the dry directly against excavated surfaces of rock.

In general, all construction joints in piers shall be provided with keys not less than 1/2" thick covering the middle third of both dimensions.

For End Bent details, see Dwg. 14399 & 14400
For Interior Bent details, see Dwg. 14441
For Composite beam details, see Dwg. 14404
For Superstructure details, see Dwg. 14403, 14405, 14404, 14405 & 14406.
For Bridge Easing details, see Std. Dwg. No. 14398

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition 1937, Plus 1946 Supplemental Specifications thereto, and applicable Special Provisions.

DESIGN SPECIFICATIONS: A.R.S. HD, 1961
Design Live Load: HS20-44 and special interstate loading of two 24,000 lb. axles 4'-0" on centers
Unit Stresses: Class 5 Concrete (f'c) 1,200 psi
Class A Concrete (f'c) 900 psi
Reinforcing Steel 20,000 psi
Structural Steel (A36) 20,000 psi
Foundation Pressure 15,000 psf (Group D)

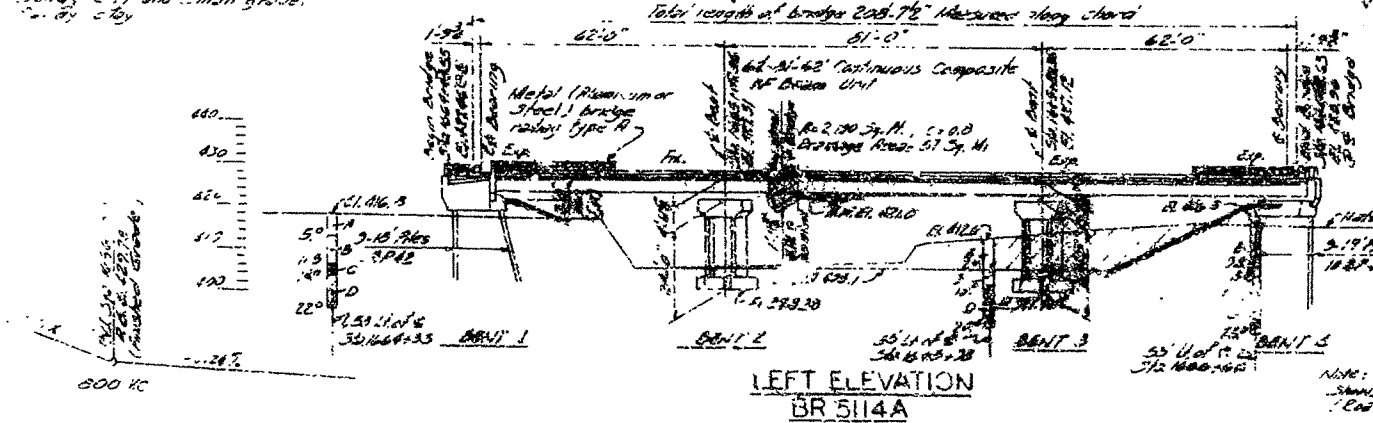
REFERENCE POINTS FOR SURVEY LINE

Note: Use type 'Z' Approach Slabs & gutters plus 2nd of both bridges. See Roadway Plans for Swardment.

Approx. 2 1/2 miles to S.W. Hwy. 25

LEGEND

Ground Level
Top of 1st Floor
Top of 2nd Floor
Top of 3rd Floor
Top of 4th Floor
Top of 5th Floor
Top of 6th Floor
Top of 7th Floor
Top of 8th Floor
Top of 9th Floor
Top of 10th Floor



CURVE DATA

A = 4785.11
D = 0°40'
T = 8862.60'
L = 34725.38'
U. Curve P.I. Sta. 1523+36.10
& El. Sta. 1691+76.96 & Survey
R. Curve P.I. Sta. 1578+00.82

LAYOUT OF DUAL BRIDGE
OVER WHITE OAK CREEK
LONELM - JCT. HWY. 25
FRANKLIN COUNTY

PREPARED BY
BRIGHTON ENGINEERING COMPANY

INT. ROUTE 40 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION

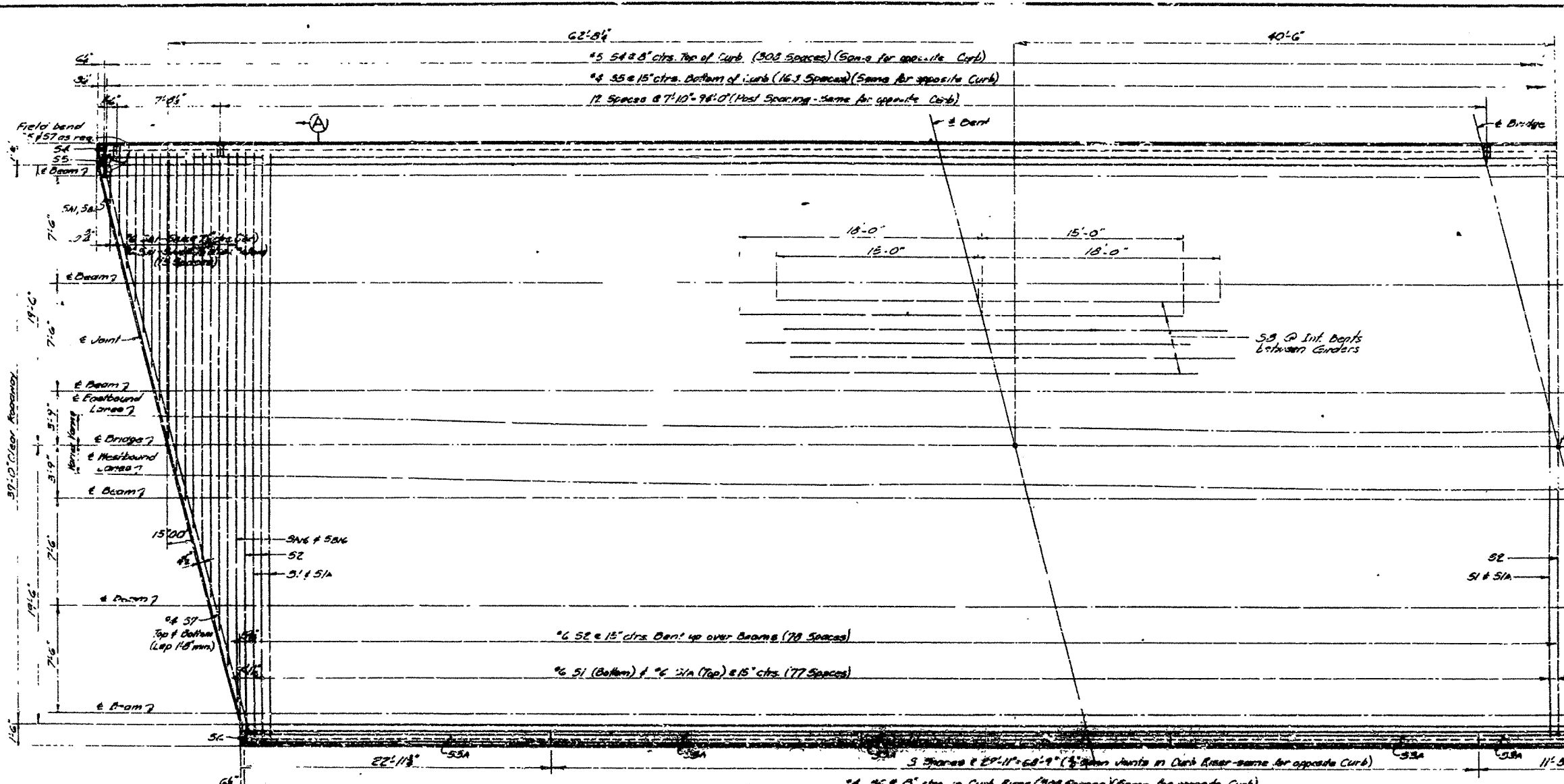
LITTLE ROCK, ARK.

BRIDGE NO. A&B5114 DRAWING NO. 53519

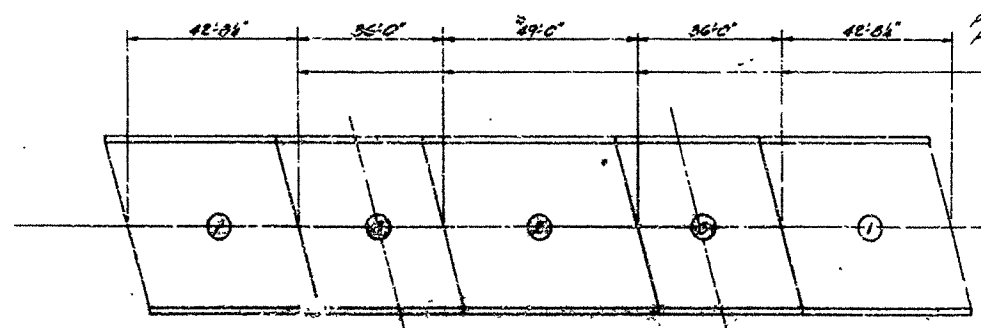
Revised Sta. End of Bridge A - JIVW 5-10-69

Note: Cross hatched areas shown details of changes (Excavation, Excavation)

PRO. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			60	75
JO. NO.	BB0403				
A&B5114 - SUPERSTRUCTURE - 53520					



HALF PLAN



Note:
Movement of the finishing machine across new concrete when protected by means of plankings placed on the surface shall be prohibited for 72 hours after finishing the pour.

FOR INFORMATION ONLY

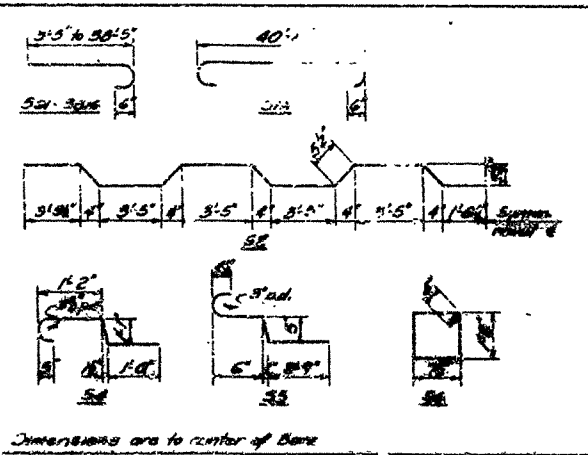
DETAILS OF
SUPERSTRUCTURE
LONELM - JCT. HWY 23
OVER WHITE OAK CREEK
FRANKLIN COUNTY

PREPARED BY
BRIGHTON ENGINEERING COMPANY
101. ROUTE 40 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

SLAB POURING SEQUENCE
Slab is to be poured in the center and out to the edges pour from end to end in this order of hours. Discontinue work until the previous section is cured. After the second section is poured the first section shall be cured before the third section is poured and put into place 72 hours after the second section is poured. If movement of the bridge shall require additional sections of the slab pour and this pouring by the sections of pouring separately and curb pour shall be in the center and out to the edges 72 hours after the first section is poured.

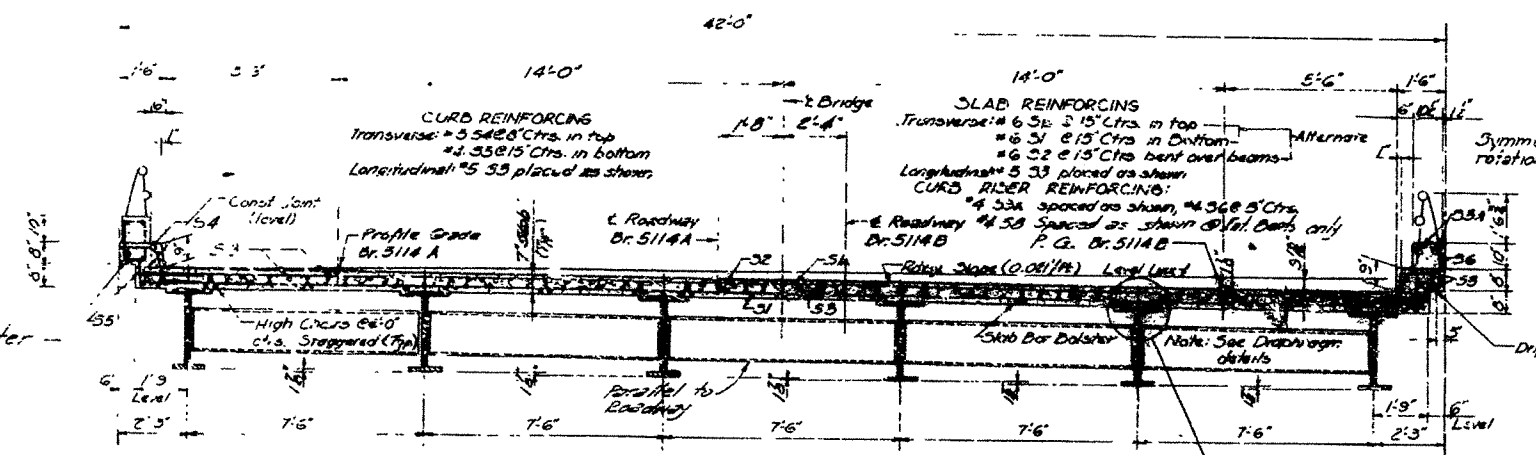
BAR LIST (For One Bridge Deck)

MARK	SIZE (M)	LENGTH	NUMBER	PHI	DNA
S1	6	40'-8"	156	5/8"	5/8"
S4 to S46	6	31'-5" to 38'-5"	2 Each	5/8"	5/8"
S1A	6	42'-1"	136	5/8"	5/8"
S2	6	41'-10"	137	5/8"	5/8"
S3	5	36'-7"	540	5/8"	5/8"
S3A	4	28'-8"	35	3/4"	3/4"
S6	5	3'-8"	140	5/8"	5/8"
S6	4	2'-8"	330	5/8"	5/8"
S6	4	4'-2"	610	5/8"	5/8"
S7	6	24'-0"	8	5/8"	5/8"
S4 to S46	6	41'-1"	2	5/8"	5/8"
S3	5	35'-0"	60	5/8"	5/8"

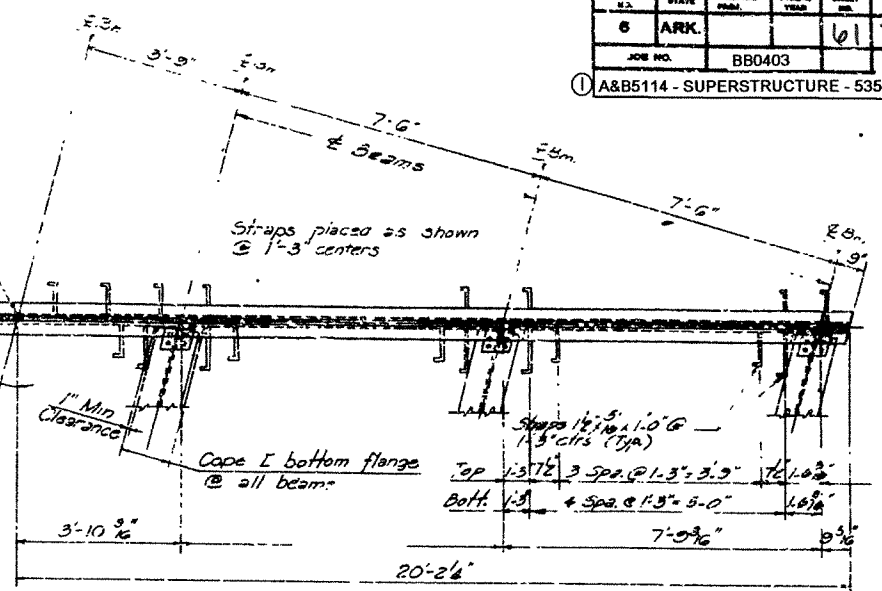


Dimensions are to center of bars

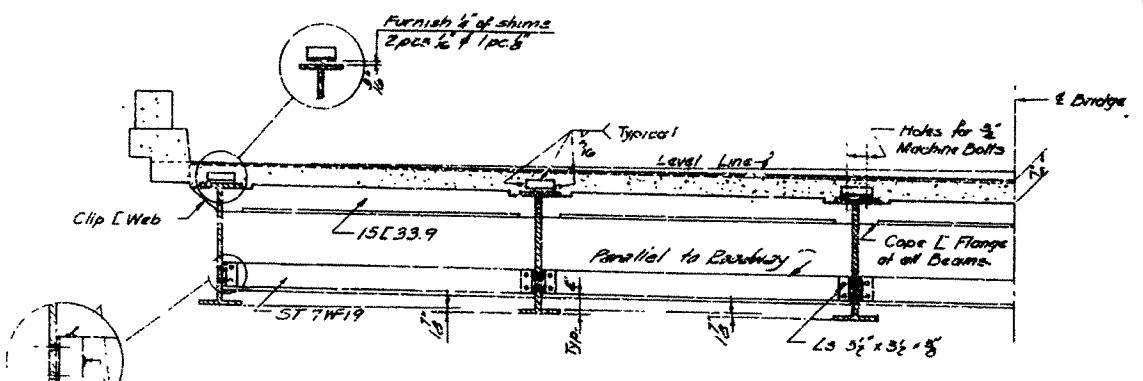
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	PROJECT NO.	TOTAL SHEETS
6	ARK.			6175	
JOB NO.	BB0403				
① A&B5114 - SUPERSTRUCTURE - 53521					



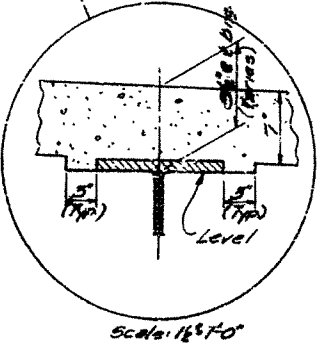
SECTION A-A
Scale: 3/4" = 1'-0"
BR. 5114 A LOOKING BACK AT STATIONS
BR. 5114 B LOOKING BACK AT STATIONS



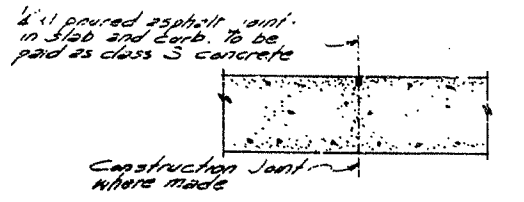
EXPANSION DEVICE DETAILS
Scale: 1/2" = 1'-0"
Roadway Channel 15E33.9
Connecting Ls: 5" x 3 1/2" x 3"



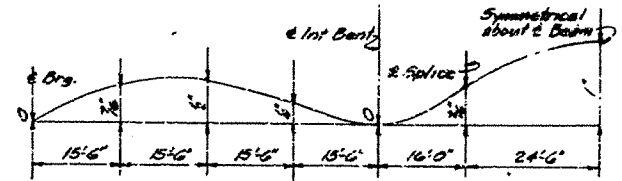
HALF SECTION AT EXPANSION DEVICE
Scale: 1/2" = 1'-0"



DIAPHRAGM DETAILS
Scale: 1/2" = 1'-0"



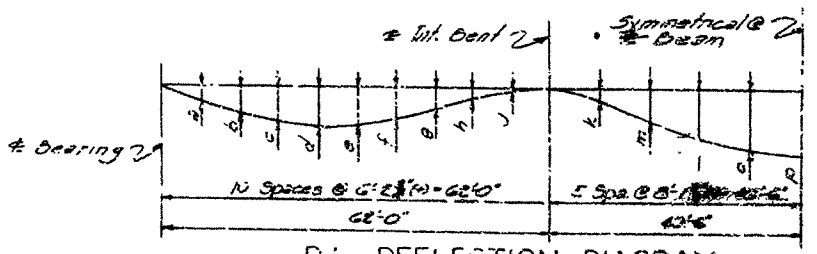
TRANSVERSE SLAB JOINT



CAMBER DIAGRAM

Beams are to be fabricated with the camber shown. All orders shall be compared such that under total dead load the top of girder webs will parallel the finished roadway grade, except allowable tolerance for camber is 1/4". All girders shall be shop assembled in their true position, field connection holes reamed, and all parts match marked. The shop assembly shall have a minimum assembled sequence of 2 sections.

OPTIONAL WELDS
Scale: 1" = 1'-0"



D.L. DEFLECTION DIAGRAM
(See Table)

Point	Steel Deck Deflection	Concrete Deck Deflection	Total Deflection
a	0.00	0.00	0.00
b	0.00	0.00	0.00
c	0.00	0.00	0.00
d	0.00	0.00	0.00
e	0.00	0.00	0.00
f	0.00	0.00	0.00
g	0.00	0.00	0.00
h	0.00	0.00	0.00
i	0.00	0.00	0.00
j	0.00	0.00	0.00
k	0.00	0.00	0.00
l	0.00	0.00	0.00
m	0.00	0.00	0.00
n	0.00	0.00	0.00
o	0.00	0.00	0.00
p	0.00	0.00	0.00
q	0.00	0.00	0.00
r	0.00	0.00	0.00
s	0.00	0.00	0.00
t	0.00	0.00	0.00
u	0.00	0.00	0.00
v	0.00	0.00	0.00
w	0.00	0.00	0.00
x	0.00	0.00	0.00
y	0.00	0.00	0.00
z	0.00	0.00	0.00

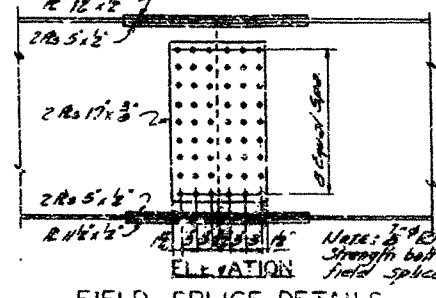
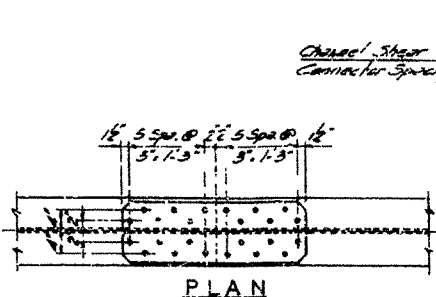
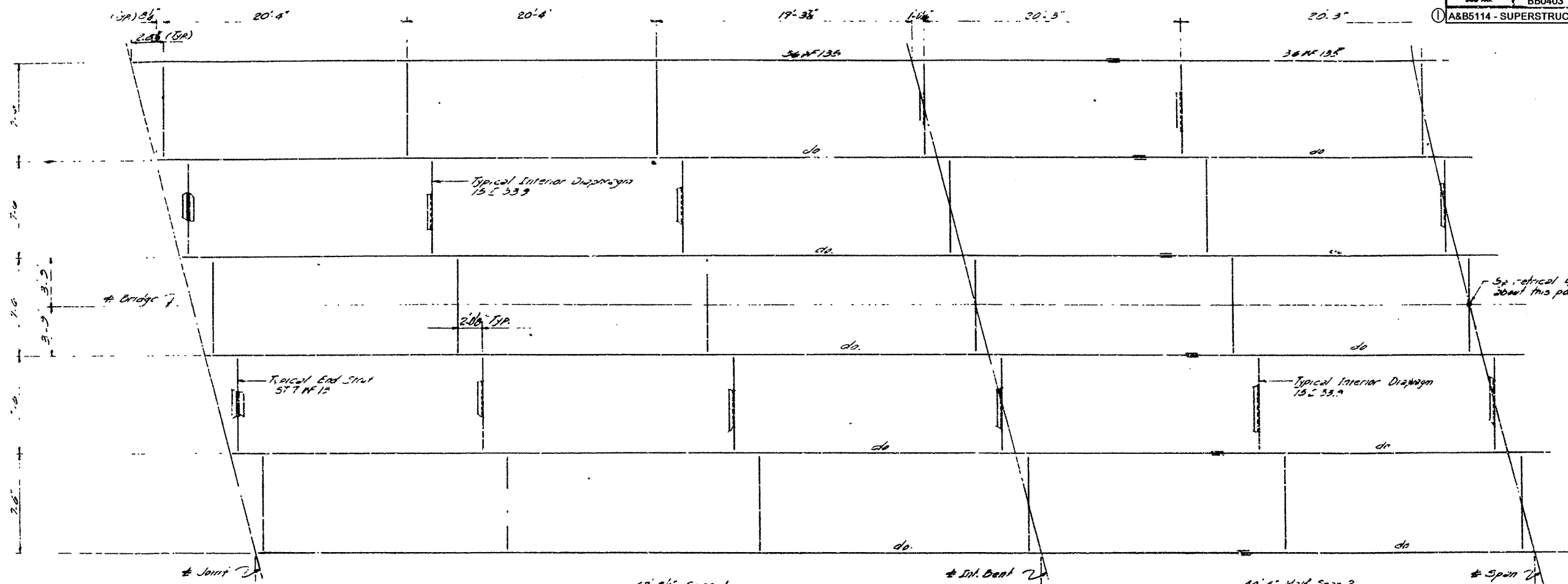
DESIGN SPECIFICATIONS: ARSND 1961
Live Load: HS 20 (WB 31' x 10') and special substructure for 17' x 17' load @ 4'-0" c/s.
1. Dead Load per foot (Type 1, soil)
a. 75 lb/ft with construction joint
b. To composite with construction joint
2. Live Load to each span: 12636 lb/ft Imp. 12636 lb/ft Imp.

FOR INFORMATION ONLY

DETAILS OF SUPERSTRUCTURE
LONELM - JCT. HWY. 23
OVER WHITE OAK CREEK
FRANKLIN COUNTY
Sheet 2
PREPARED BY
BRIGHTON ENGINEERING COMPANY
1111 ROUTE 40 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: PDS DATE: 10-22
CHECKED BY: S.M.K. DATE: 1/16
SCALE: As Noted
BRIDGE NO. A&B5114 DRAWING NO. 53521

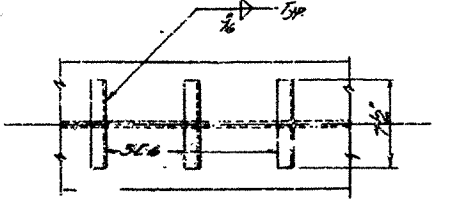
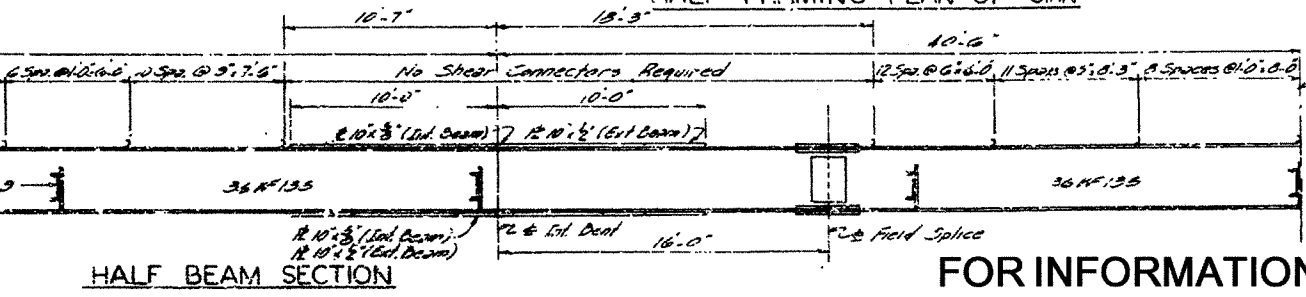
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FED. ROAD DIST.	STATE	FED. AID PROJ. NO.
6	ARK.				
JOB NO.		BB0403			
① A&B5114 - SUPERSTRUCTURE - 53522					



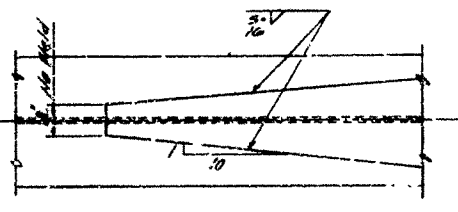
FIELD SPLICE DETAILS
Scale: 1/4" = 1'-0"
See Div. 1408 for additional panel note for splice

NOTE: All Dimensions are horizontal. Edge of beam and joint are to be vertical.

NOTE: Stud shear connectors, granular flux filled, sand filled or equal may be used in place of channels shown at the following ratios: 3" diameter stud in place of 1.82 inches of channel, 5" diameter stud in place of 2.52 inches of channel. The stud shall be 4" long and automatically cut and welded to the beam flanges in accordance with the recommendations of the manufacturer. Channel sections are to be used as basis for measurement of structural steel in shear connectors.



DETAILS OF SHEAR CONNECTORS
Scale: 1/4" = 1'-0"



DETAILS OF COVER PLATES
Scale: 1/4" = 1'-0"

All beams shall be shop assembled in their true position, field connection tabs required, and all parts metal matched. The shop assembly shall have an assembly supervisor of the structure.

Note: Magnetic Particle Inspection of cover plate welds.

FOR INFORMATION ONLY

DETAILS OF SUPERSTRUCTURE
LONELM - JCT. HWY 23
OVER WHITE OAK CREEK
FRANKLIN COUNTY
Sheet 3
PREPARED BY

BRIGHTON ENGINEERING COMPANY

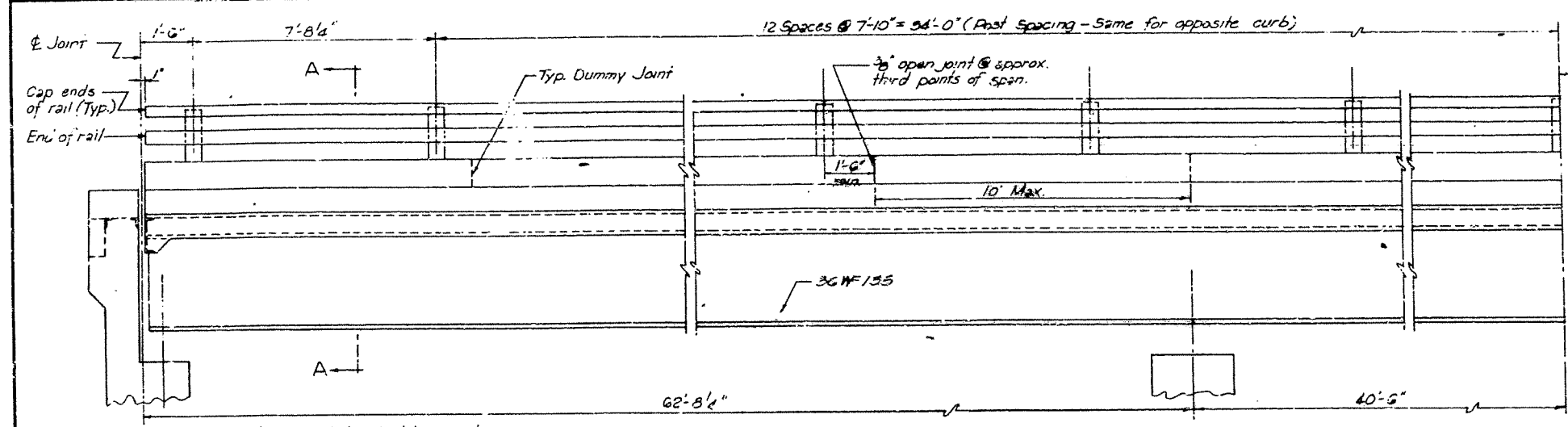
INT. ROUTE 40 SEC. 1

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DESIGNED BY: [Signature] DATE: 11/10/64
CHECKED BY: [Signature] DATE: 11/10/64

ENGINEER NO. A&B5114 DRAWING NO. 53522

REV. NO.	DATE	BY	CHKD.	APP'D.
6	APR 63			
JOB NO.		BB0403		
A&B5114 - SUPERSTRUCTURE - 53523				



Note: For additional details and Section A-A see Orig. 14403

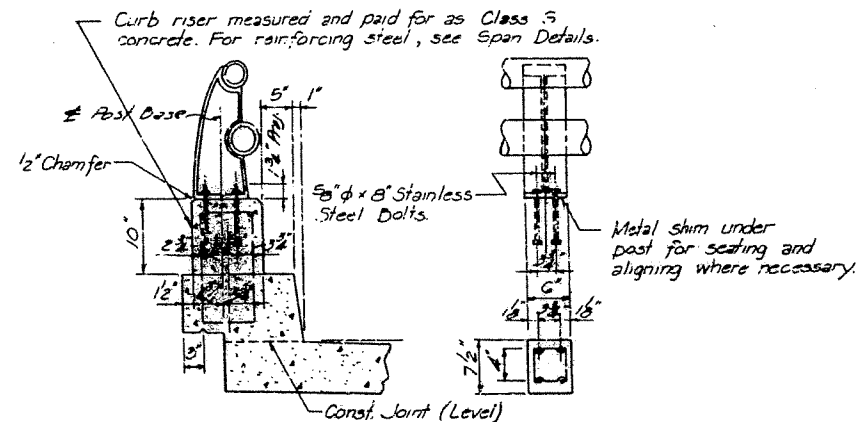
ELEVATION TYPE A RAILING

Scale: 1/2" = 1'-0"

Symmetrical by rotation about this line.

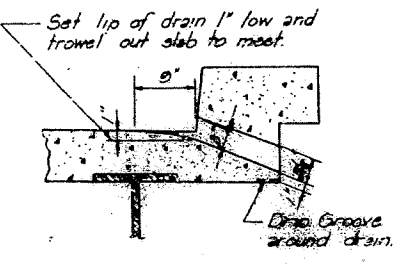
GENERAL NOTES

All concrete to be Class 5. All exposed corners to be chamfered 3/4" unless otherwise noted.
 Field connections to be riveted or bolted with high strength bolts.
 Rivets: 3/4" dia, open holes: 1/2" dia except at beam splices. At beam splices use 3/8" rivets, open holes 1/2" dia.
 Structural shapes of equal or greater strength may be substituted for shapes shown, but payment will be made on the basis of the shapes shown, or those actually used, whichever is less.
 * All welded connections to be 3/16" fillet shop welds, except as noted. All welding shall conform to the American Welding Society Standard Specifications for Welded Highway and Railway Bridges, current edition.
 Shop Paint: All structural steel, except surfaces in contact with concrete, shall be given one coat of red lead and raw linseed oil before shipment.
 Field Paint: First coat - red lead tinted with lamp black. Second coat - Aluminum paint.
 No shop paint shall be applied to top flanges or edge of top flanges of beams and shear connectors or to joints of welded or bolted splices including splice plates.
 Finished surfaces to receive one shop coat of white lead, zinc and red lead.
 All metal bearing and roadway expansion devices to be paid for as "Structural Steel in Beam Spans". Bearings shall be fully sealed in accordance with Sec. 806.34, including alternate, of the Bid. Space This work and material to be considered to be subsidiary to the item "Structural Steel in Beam Spans" and will not be paid for directly.
 All steel shall be ASTM A36, unless otherwise noted.
 Anchor bolts shall be galvanized to conform to ASTM Specification Designation A155.
 Reinforcing steel to be deformed bars of intermediate or hard grade. The reinforcing steel is to be accurately located in the forms and firmly held in place by steel wire supports, sufficient in number and size to prevent displacement during the course of construction. The wire supports will not be paid for directly, but will be considered subsidiary to the item of "Reinforcing Steel".
 Shop lists and bending diagrams of reinforcing steel, including wire supports, shall be submitted and approved before fabrication is begun.
 All clearances on concrete rise for rail are to be 1/2".
 Shop drawings showing details of casting shall be submitted and approved before fabrication is begun.
 For details of Bridge Railing, see Orig. No. 14092 as shown on Bridge Layout.
 These drawings show general features of design only. Shop drawings shall be made in accordance with the specifications herein, submitted and approved by the Engineer before fabrication is begun.
 * Current Supplemental Specifications shall apply.
 SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction Edition of 1959, the 1966 Supplemental Specifications thereto and applicable Special Provisions.



DETAILS OF TYPE 'A' RAILING

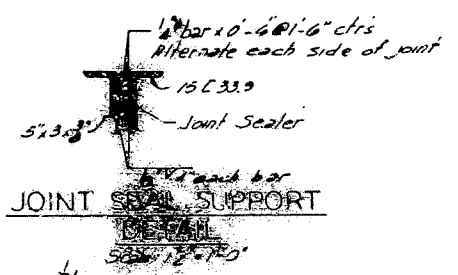
Scale: 1" = 1'-0"



Drain opening 5x7 tapered to 3 1/2 x 7 1/2. Place at bottom. 20# rebar on low side of sloped roadway. No rebar shall be placed over drainage opening.

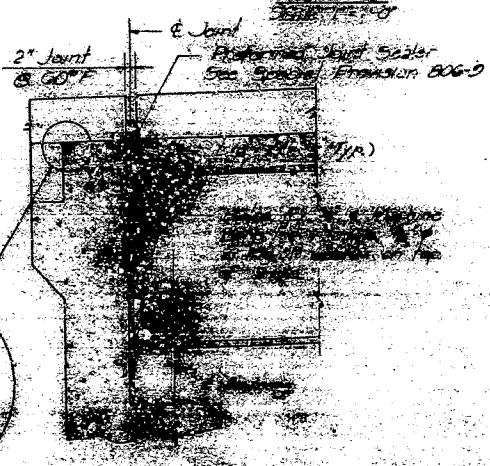
SECTION THRU DRAIN

Scale: 1/2" = 1'-0"

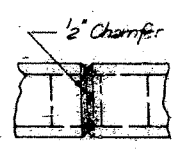
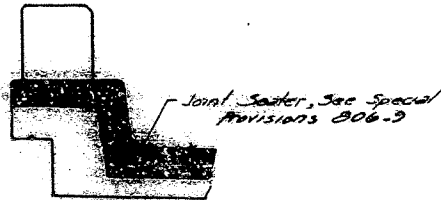


ALTERNATE ANCHOR DETAIL

Use alternate for stress 3/4" dia. If welded stud bar used, solid bar may be used. Use as basis of measure of structural steel in anchors.

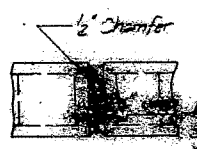


DETAIL OF REINFORCED JOINT SEALER



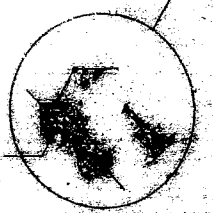
PLAN OF DUMMY JOINT

Scale: 1" = 1'-0"



PLAN OF OPEN JOINT

Scale: 1" = 1'-0"



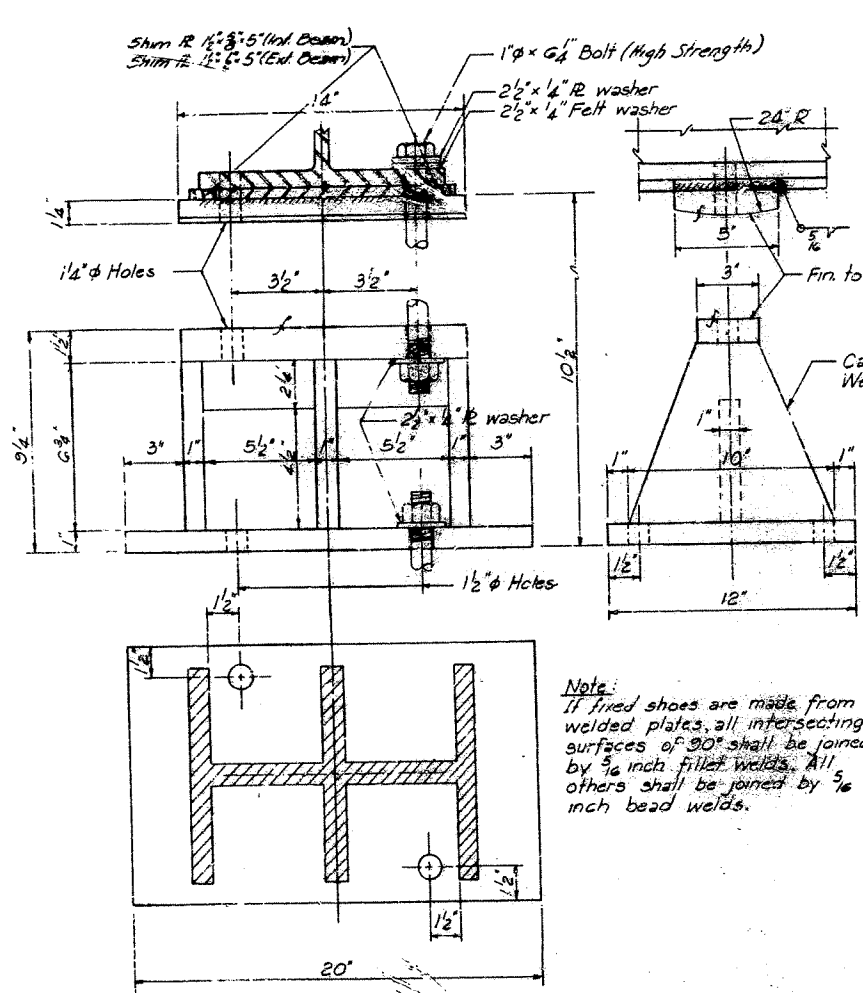
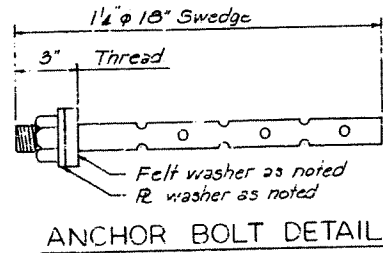
Scale: 1/2" = 1'-0"

FOR INFORMATION ONLY

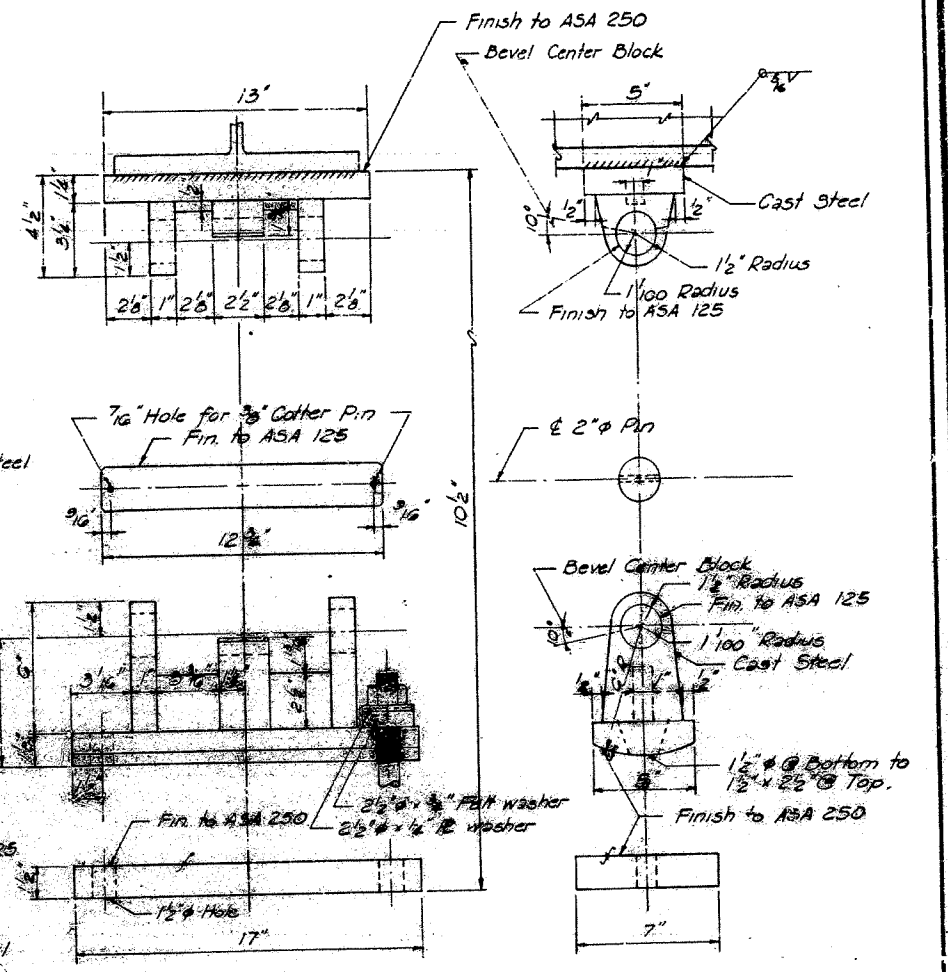
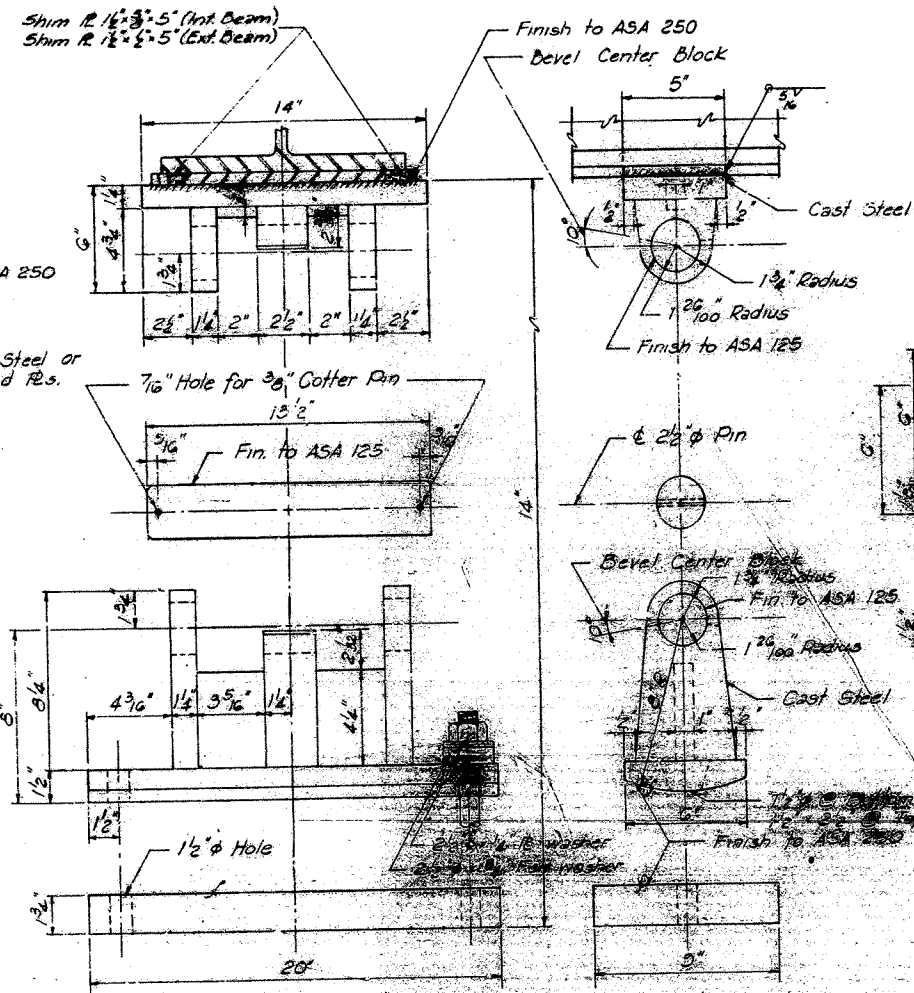
DETAILS OF SUPERSTRUCTURE
 LONELM - JCT. HWY. 23
 OVER WHITE CREEK
 FRANKLIN COUNTY

BRIGHTON ENGINEERING COMPANY
 INC. 2000 40th St. S.
 ARKANSAS STATE HIGHWAY COMMISSION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			104	75
JOB NO.		BB0403			
A&B5114 - SUPERSTRUCTURE - 53524					



Note:
If fixed shoes are made from welded plates, all intersecting surfaces of 90° shall be joined by 5/16 inch fillet welds. All others shall be joined by 5/16 inch bead welds.

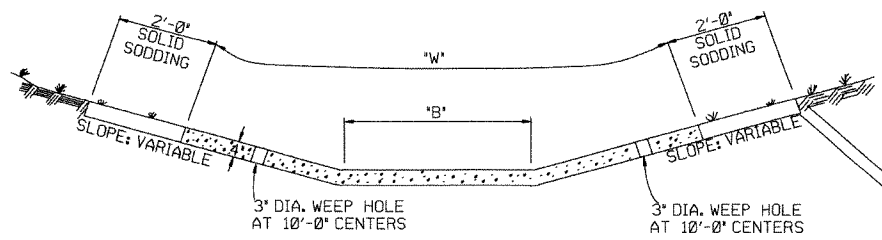


All shoe material shall be Carbon Steel, minimum yield strength as specified. Shoes shall be ASTM A 36.
All joints shall be welded on both sides of the shoe as shown.
ASTM A 36, Class E or F shall be used for all weld electrodes.
Bevels shall be 30 degrees.
Shoe shall be 1/2 inch thick.
Shoe shall be 1/2 inch high.
Shoe shall be 1/2 inch wide.
Shoe shall be 1/2 inch deep.

FOR INFORMATION ONLY
DETAILS OF
SUPERSTRUCTURE
LONELM - JCT HWY 23
OVER WHITE OAK CREEK
FRANKLIN COUNTY

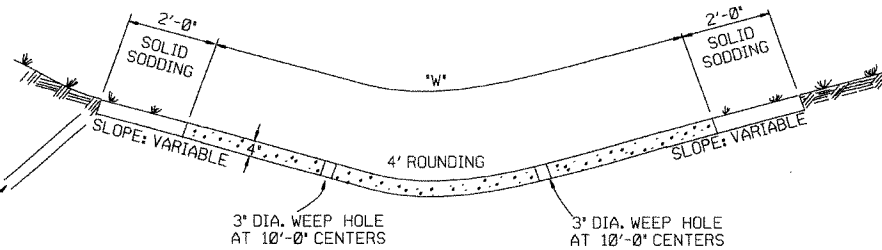
BRIGHTON ENGINEERING COMPANY
INT. ENGINEERING DIV.
ARKANSAS STATE HIGHWAY COMMISSION

REFER TO TABULATION OF QUANTITIES FOR 'W' & 'B' DIMENSIONS



TYPE A

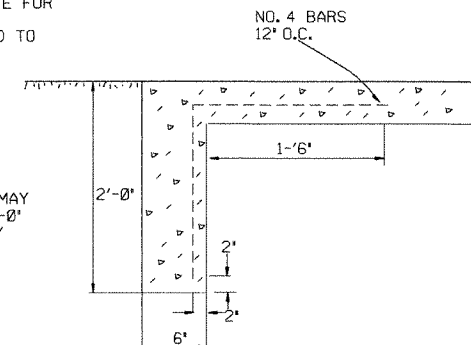
REFER TO TABULATION OF QUANTITIES FOR 'W' DIMENSIONS



TYPE B

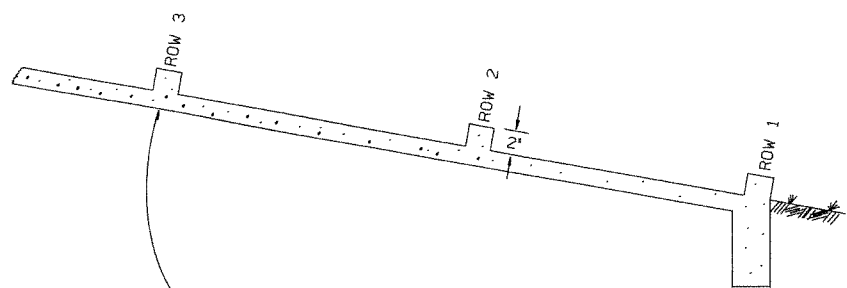
EXCAVATE TO NEAT LINES TO CONSTRUCT DITCH PAVING AND SOLID SODDING.

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



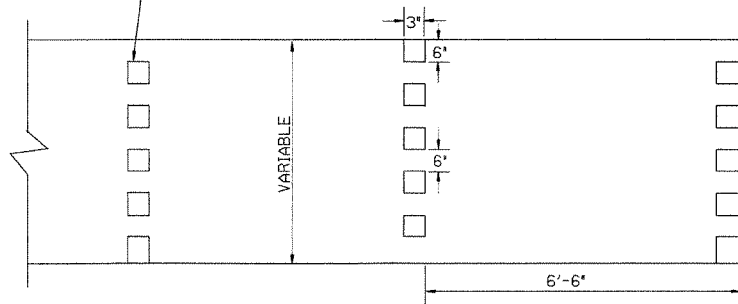
TOE WALL DEPTH MAY BE ALTERED TO 1'-0" WHEN DIRECTED BY THE ENGINEER IN ROCK EXCAVATION

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.

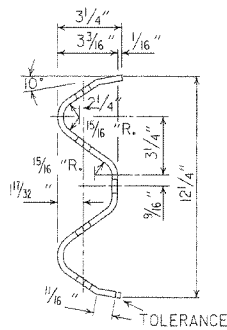
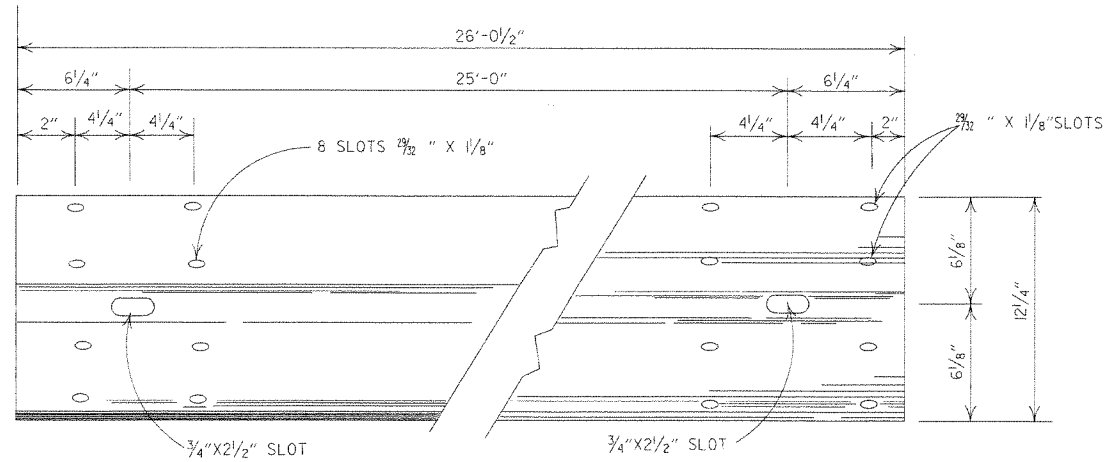
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-8	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	532-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	599-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11-1-84
11-1-84	EXCAVATION DETAILS ADDED	
10-2-72	REVISED AND REDRAWN	508-10-2-72
DATE	REVISION	DATE FILM'D

ARKANSAS STATE HIGHWAY COMMISSION

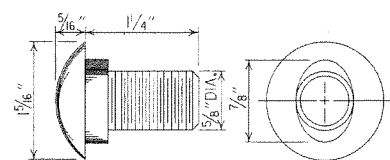
CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

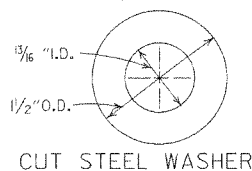


DETAILS OF W-BEAM GUARD RAIL

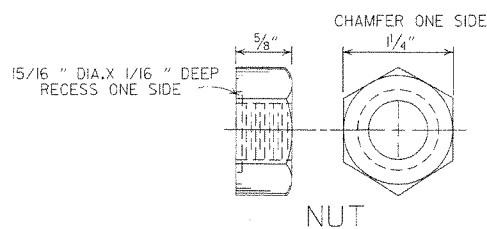
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



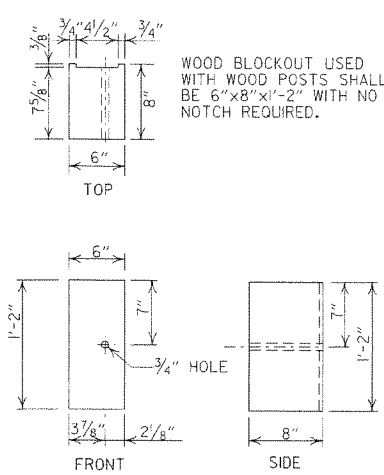
SPLICE BOLT
POST BOLT - SAME EXCEPT LENGTH



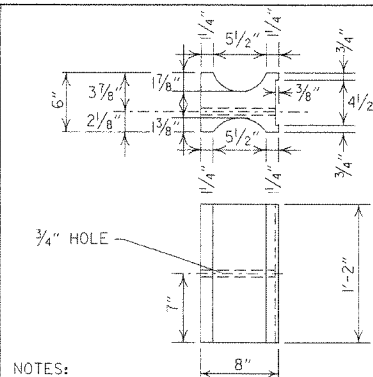
CUT STEEL WASHER



NUT



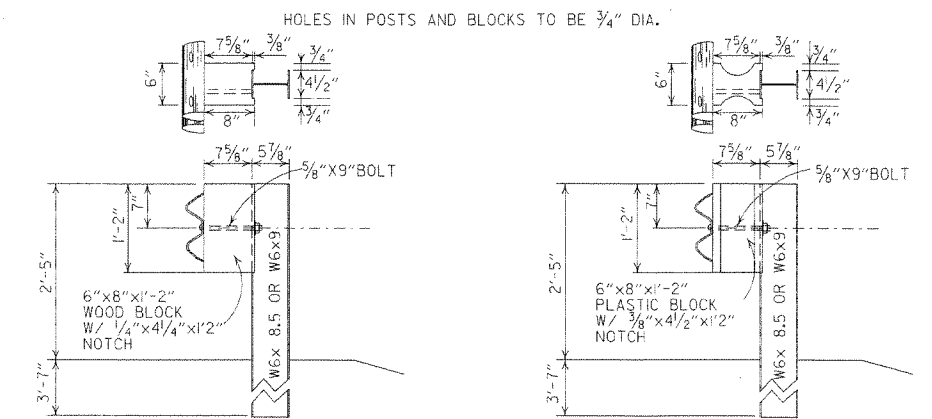
WOOD BLOCKOUT (W-BEAM)



NOTES:

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

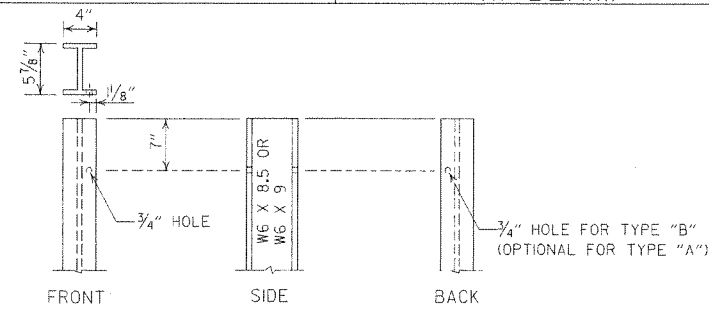
PLASTIC BLOCKOUT (W-BEAM)



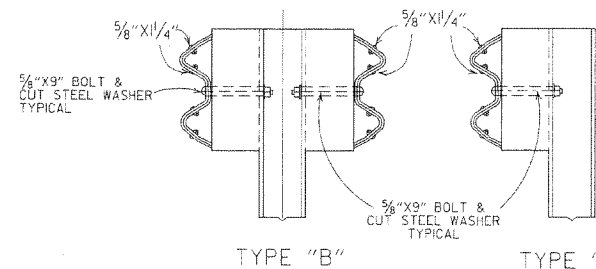
WOOD BLOCKOUT CONNECTIONS

DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)

PLASTIC BLOCKOUT CONNECTIONS

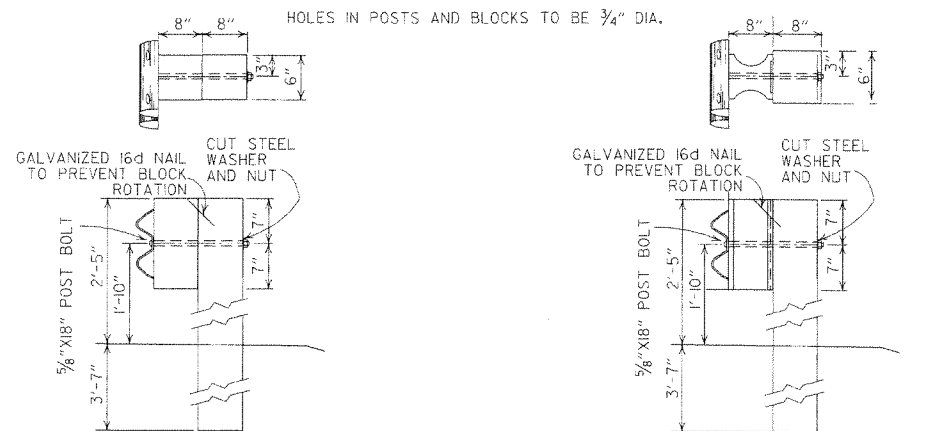


STEEL POST



TYPE "B" TYPE "A"

DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



WOOD BLOCKOUT CONNECTIONS

DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

PLASTIC BLOCKOUT CONNECTIONS

-GENERAL NOTES-

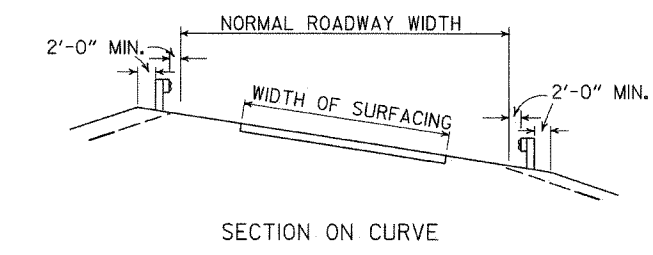
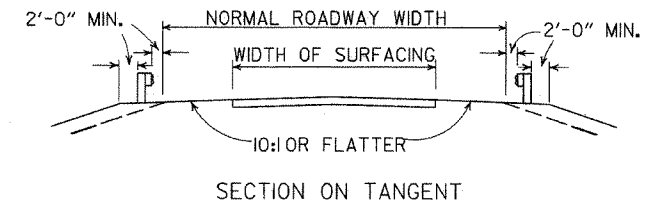
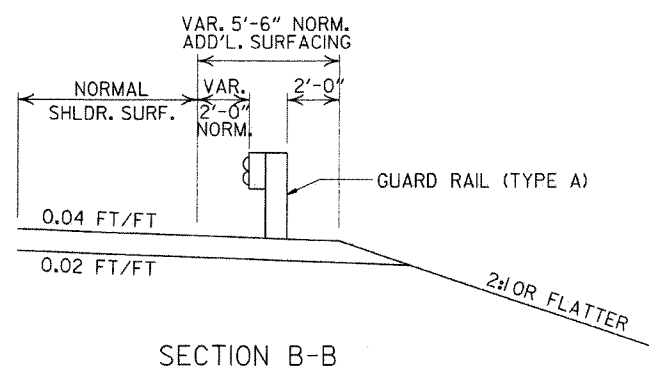
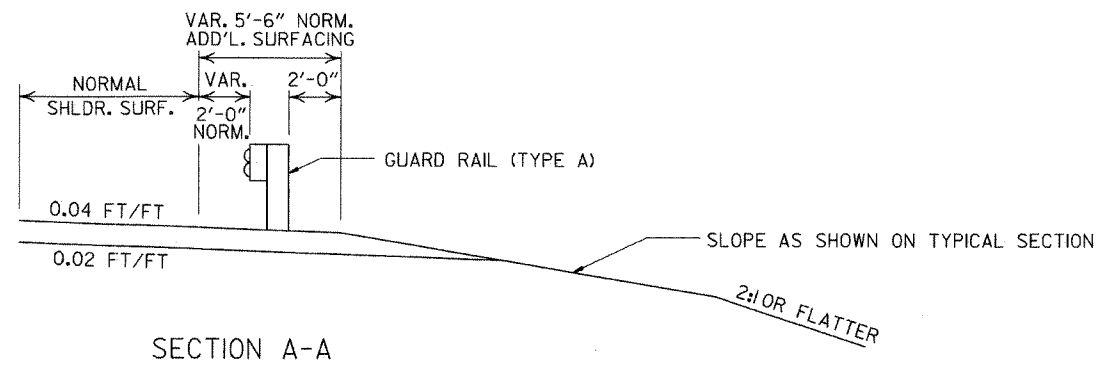
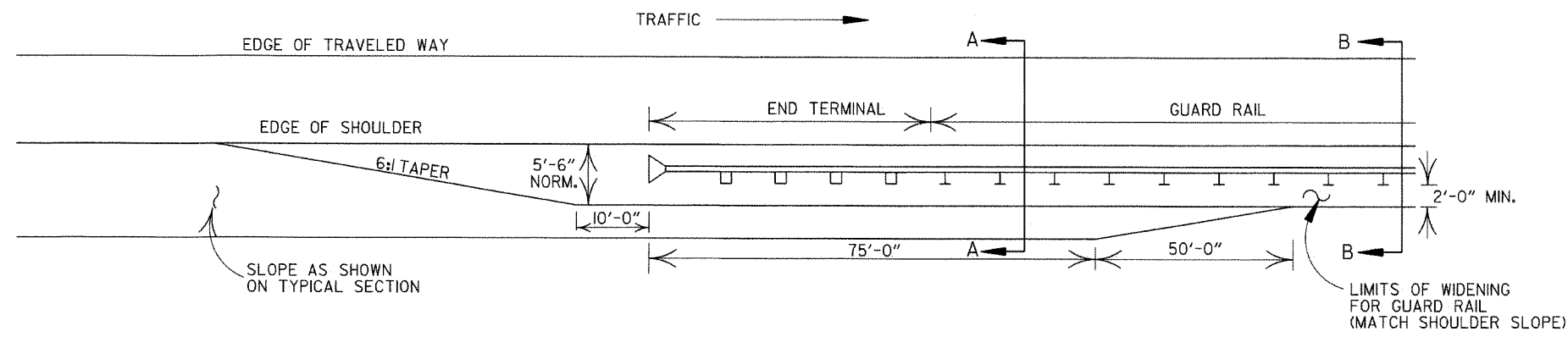
- ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.
- WHERE W-BEAM GUARD RAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.
- W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL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

7-4-10	RAISED HEIGHT OF GUARD RAIL 1"	
10-16-09	ADDED REFERENCE TO MASH	
4-10-03	REVISED GENERAL NOTES	
8-22-02	REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & ON STEEL POST	
11-16-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS	
3-30-00	REMOVED GUARD RAIL AT BRIDGE ENDS	
11-2-00	ADDED PLASTIC BLOCKOUT	
8-12-98	REV. BLOCKOUTS TO WOOD, DELETED CONC. POST & REV. GENERAL NOTE, DELETED DET. OF GUARD RAIL REPLACE BEHIND CURB & DET. OF POST PLACE IN SOLID ROCK, & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLES IN STEEL POLES	
4-3-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS	
10-18-96	REVISED WOOD POST NOTE	
6-2-94	ADDED ALT. STEEL POST SIZE	
8-5-93	REVISED STEEL POST SIZE	8-5-93
10-1-92	REDRAWN & REVISED	10-1-92
8-15-91	REVISED WASHER NOTE	8-15-91
8-2-90	REV. GEN. NOTE & DEPTH OF ANC. POST IN ROCK	8-2-90
7-15-88	REVISED SECTION 3 & GENERAL NOTES	
3-4-88	REV. ANCHOR POST, ELEV. NOTES & POST IN ROCK	780-3-4-88
10-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87
10-9-87	REDRAWN & REVISED	802-10-9-87
DATE	REVISION	DATE FILM

ARKANSAS STATE HIGHWAY COMMISSION

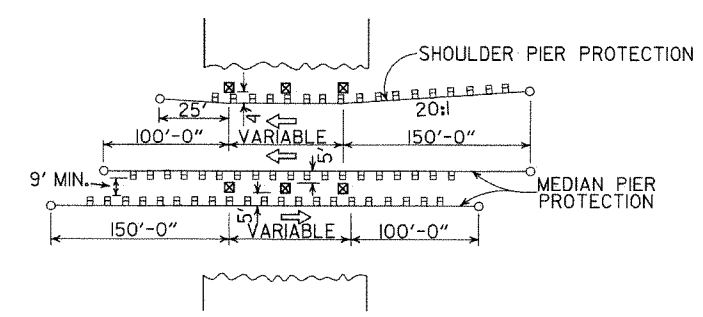
GUARD RAIL DETAILS

STANDARD DRAWING GR-8



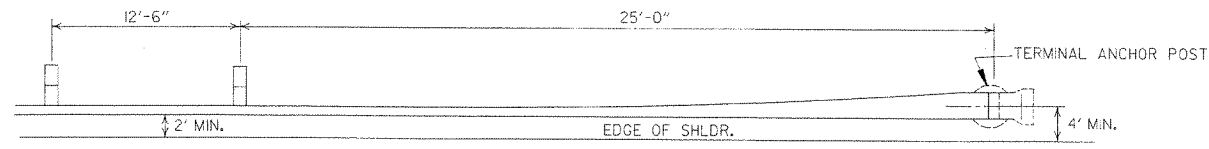
DETAILS OF WIDENING FOR GUARD RAIL

DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

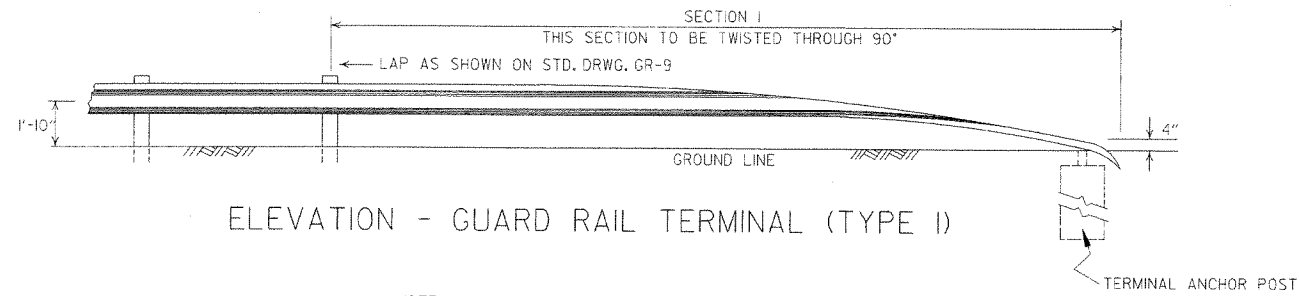


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

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

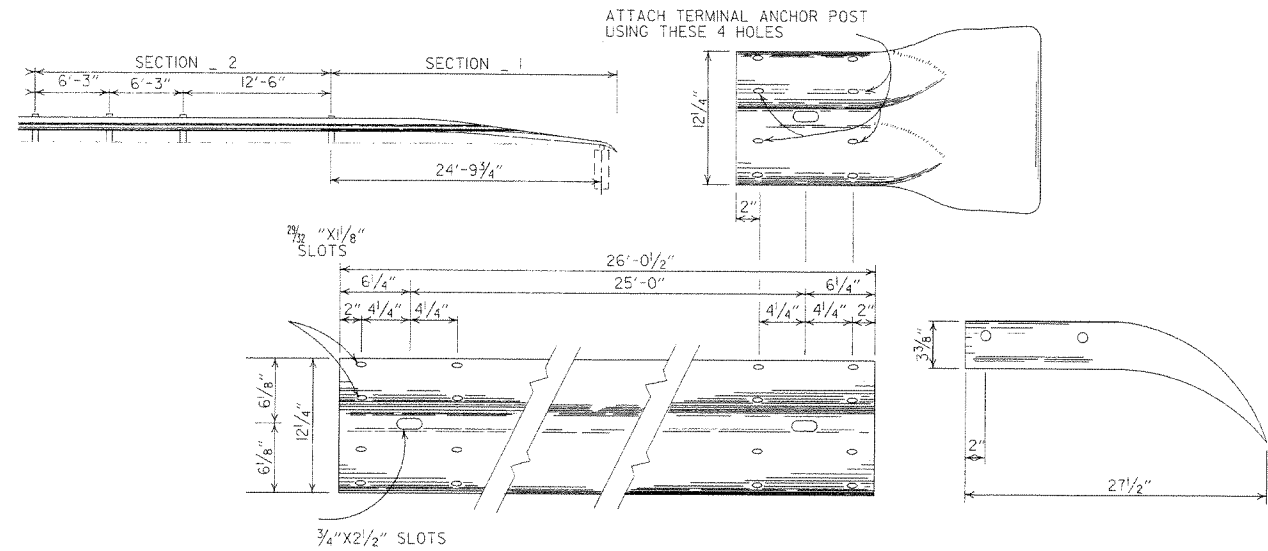


PLAN - GUARD RAIL TERMINAL (TYPE I)



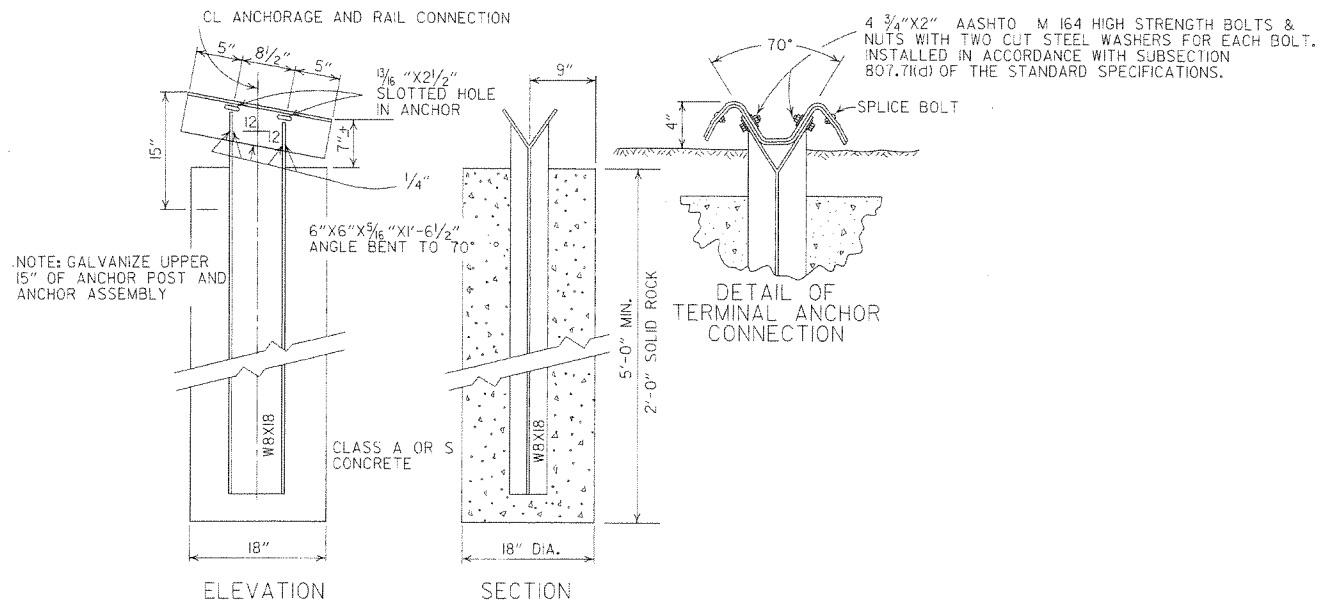
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

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



SECTION 1

TERMINAL SECTION



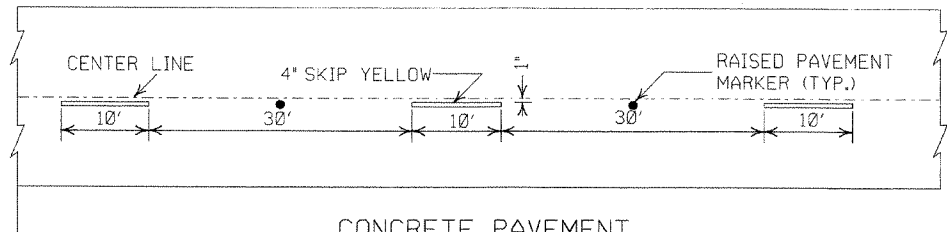
ELEVATION SECTION

DETAIL OF TERMINAL ANCHOR POST (TYPE I)

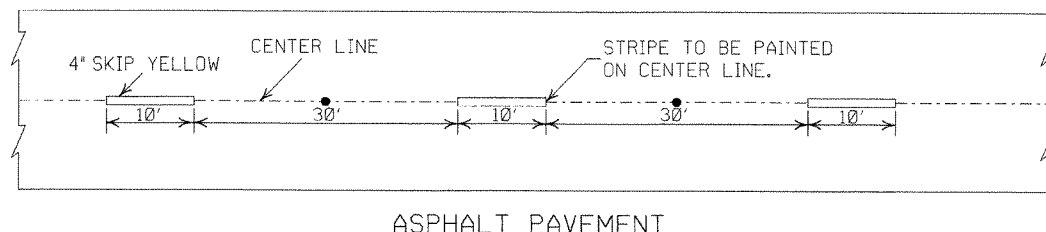
NOTE: GALVANIZE UPPER 15" OF ANCHOR POST AND ANCHOR ASSEMBLY

NOTE: RAIL MEMBERS MAY BE BOLTED TO ANGLE AT TERMINAL ANCHOR AND THE TWO ASSEMBLIES POSITIONED TO PROPER ALIGNMENT PRIOR TO PLACING CONCRETE AROUND & W/ IT 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

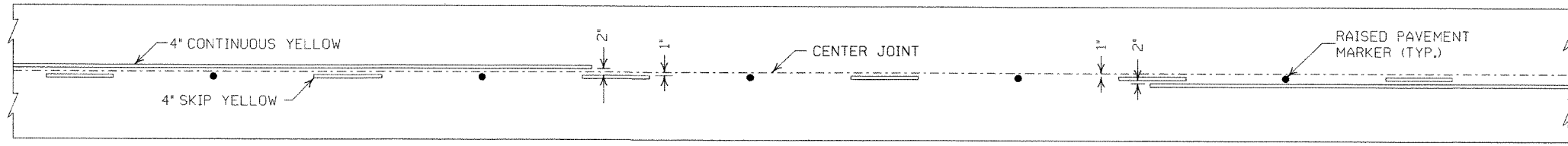


CONCRETE PAVEMENT

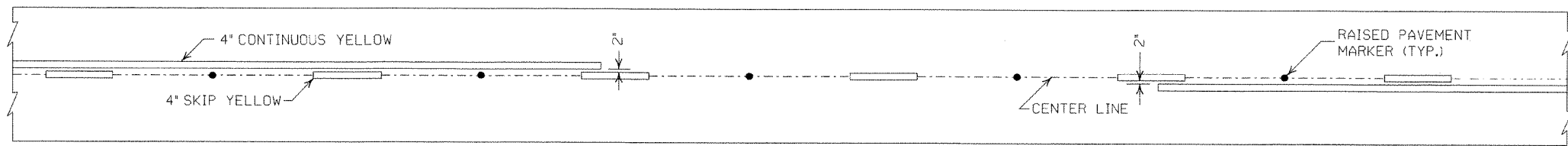


ASPHALT PAVEMENT

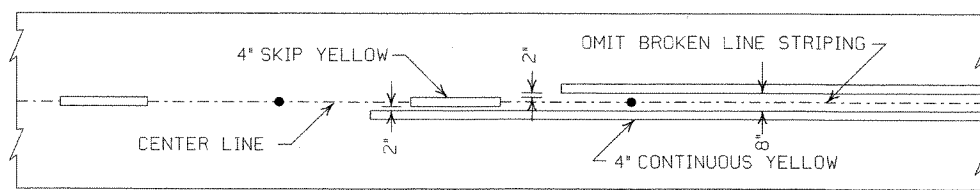
BROKEN LINE STRIPING



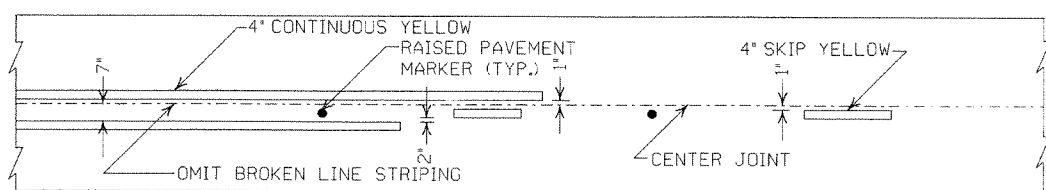
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT

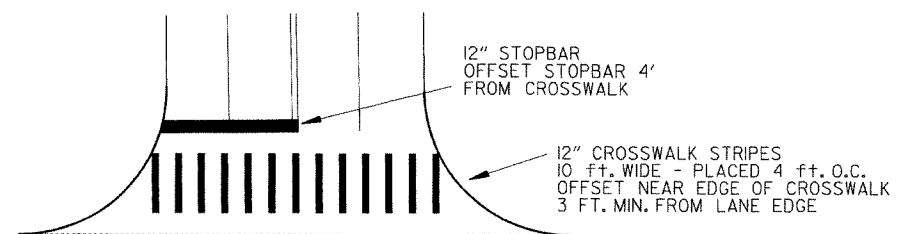


ASPHALT PAVEMENT



CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES

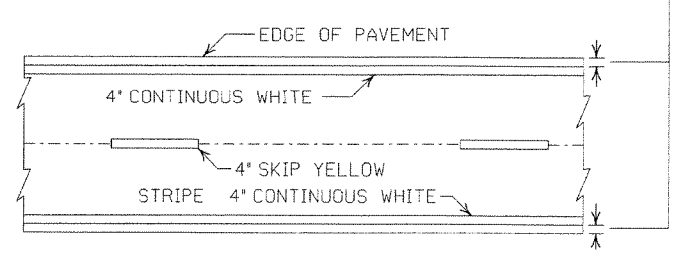


CROSSWALK AND STOPBAR DETAILS

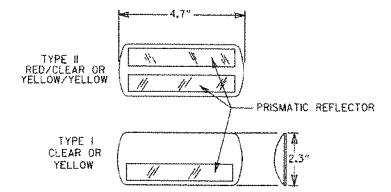
NOTES:

1. ALL LINES SHALL HAVE A WIDTH OF 4 INCHES.
2. THE THICKNESS AND RATE OF PAINT APPLICATION SHALL BE AS SPECIFIED IN SECTION 718 OF THE STANDARD SPECIFICATIONS.
3. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
4. RAISED PAVEMENT MARKERS SHALL BE CENTERED BETWEEN SKIP LINES ON 40 FEET SPACING UNLESS OTHERWISE SHOWN ON THE PLANS.

2" FOR ASPHALT OR CONCRETE PAVEMENT
6" FOR BITUMINOUS SURFACE TREATMENT



PAVEMENT EDGE LINE MARKING



NOTE:
THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.

DETAIL OF STANDARD RAISED PAVEMENT MARKERS

GENERAL NOTES:
THIS DRAWING SHOULD BE CONSIDERED AS TYPICAL ONLY AND THE FINAL LOCATION OF THE STRIPING AND RAISED PAVEMENT MARKERS SHALL BE DETERMINED BY THE ENGINEER.

THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION.

NOTE:
DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE AHTD QUALIFIED PRODUCTS LIST.

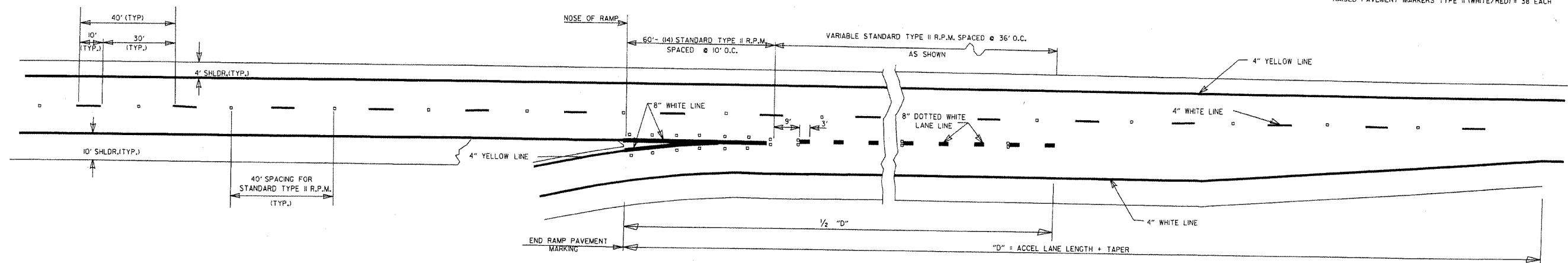
DATE	REVISION	FILMED
11-17-10	REVISED GENERAL NOTES & REMOVED FLOWABLE PVMT MRKRS	
11-18-04	REVISED NOTE 2 & GENERAL NOTES	
8-22-02	ADDED CROSSWALK & STOPBAR DTLS.	
7-02-98	ADDED DETAILS OF STD. RAISED PAV'T. MARKERS	
4-26-96	REV. NOTES 3&4; ADDED R.P.M.	
9-30-80	DRAWN	1-9-30-80

ARKANSAS STATE HIGHWAY COMMISSION
PAVEMENT MARKING DETAILS
STANDARD DRAWING PM-1

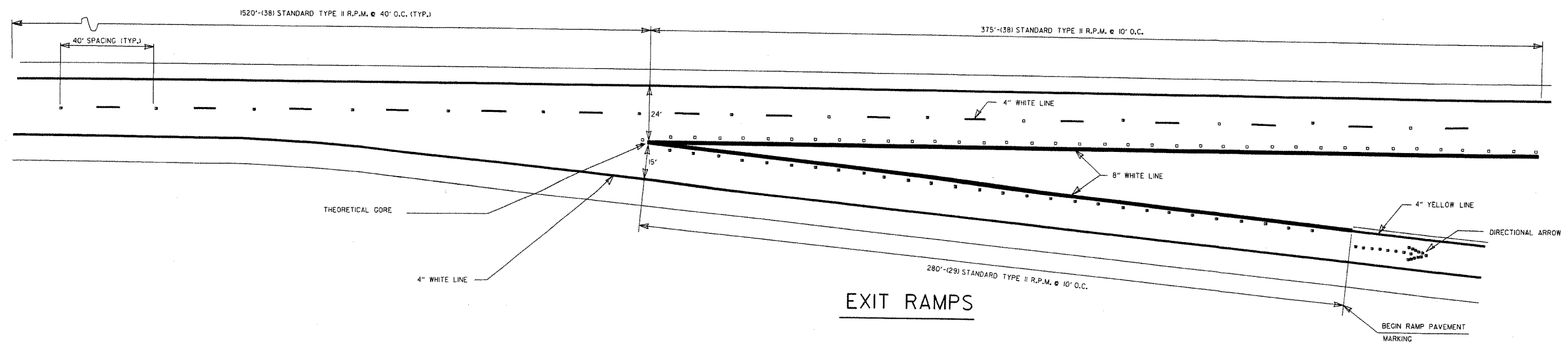
PAVEMENT MARKING QUANTITIES
(BASED ON 700' ACCEL. LANE + 300' TAPER)

ENTRANCE RAMP
8" WHITE = 228 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 36 EACH

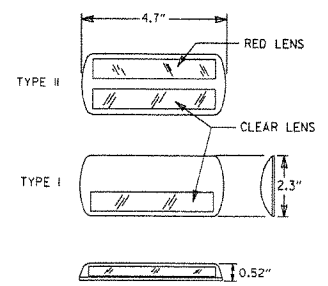
EXIT RAMP
4" WHITE = 280 LIN. FT.
8" WHITE = 655 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 36 EACH
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 48 EACH
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 36 EACH



ENTRANCE RAMPS

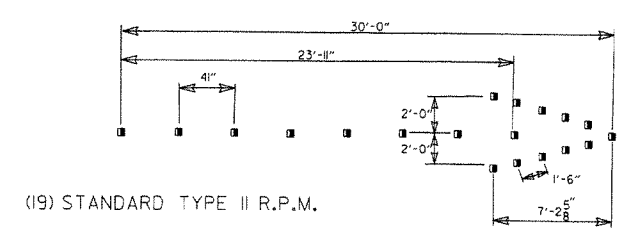


EXIT RAMPS



DETAIL OF STANDARD RAISED PAVEMENT MARKERS

NOTE:
THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.



DIRECTIONAL ARROWS

GENERAL NOTES:
THIS DRAWING SHOULD BE CONSIDERED AS TYPICAL ONLY AND THE FINAL LOCATION OF THE STRIPING AND PAVEMENT MARKERS SHALL BE DETERMINED BY THE ENGINEER.


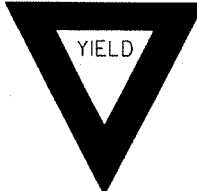
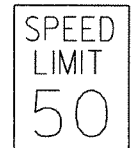






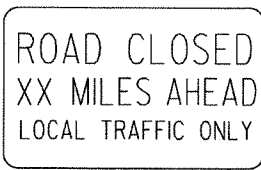
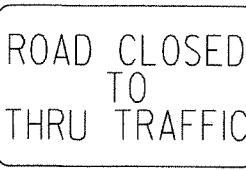
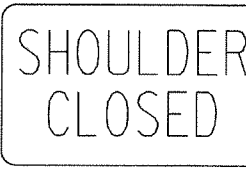
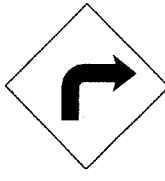
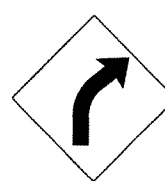



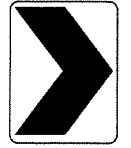
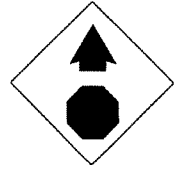
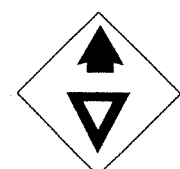
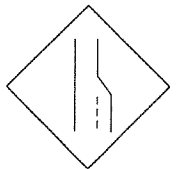



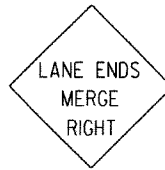






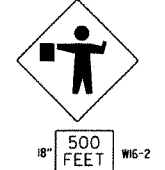


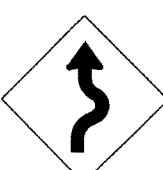
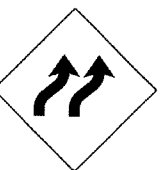


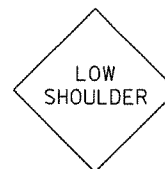
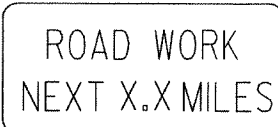
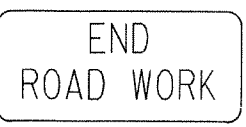
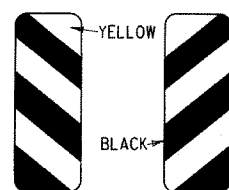


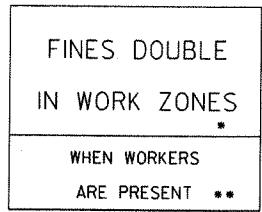
THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION.

NOTE:
DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER, REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE AHTD QUALIFIED PRODUCTS LIST.

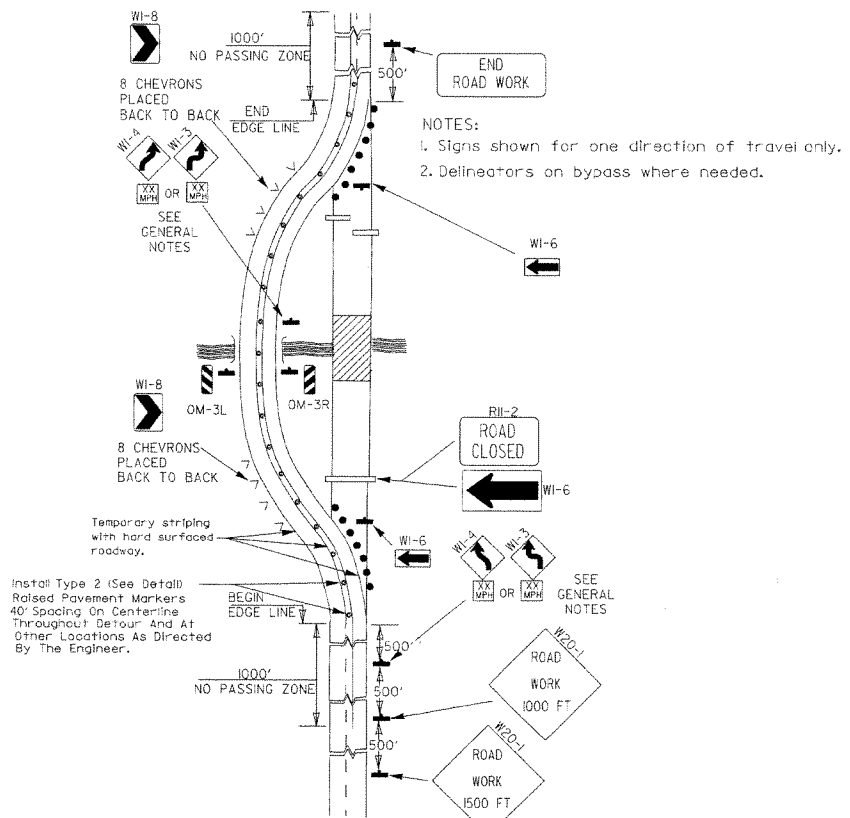
DATE	REVISION	FILMED
7/26/12	REVISED RPM NOTATION	
12-15-11	REVISED RPMs ACCORDING TO LATEST POLICY	
11-17-10	REMOVED PLOWABLE PAVEMENT MARKERS	
6-3-10	REVISED PER 2009 MUTCD	
11-18-04	REVISED NOTES	
8-22-02	ADDED & REVISED NOTES; REV. ENTRANCE & EXIT RAMPS	
5-18-00	REMOVED HASHMARKS	
7-02-98	CHANGED TYPES TO ROMAN NUMERALS	
4-26-96	ADDED DIMENSIONS & QUANTITIES; REVISED LANE WIDTH ON EXIT RAMP	
2-2-95	PLACED IN USE	2-2-95

ARKANSAS STATE HIGHWAY COMMISSION
PERMANENT PAVEMENT MARKING
ON ACCESS CONTROLLED ROADWAYS

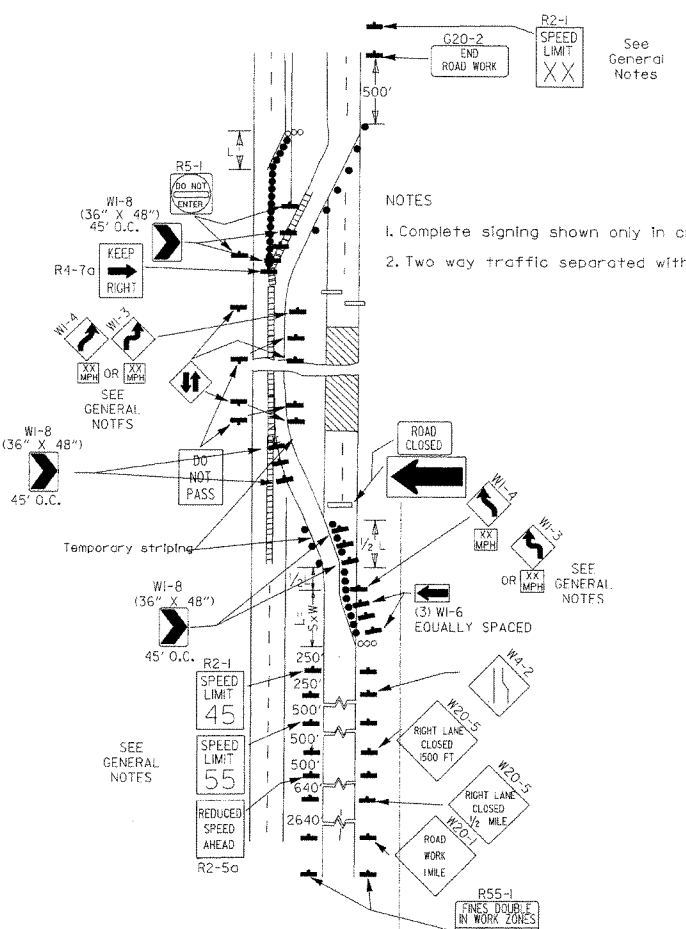
STANDARD DRAWING PM-2

<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>ADVANCE DISTANCES (XXXX) 71</p> <p>500 FT 1/2 MILE 1000 FT 3/4 MILE 1500 FT 1 MILE AHEAD</p> <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> 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. <p>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.</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>8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.</p> <p>9. 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.</p> <p>10. 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.</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>8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.</p> <p>9. 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.</p> <p>10. 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.</p>
<p>W5-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W6-3</p>  <p>EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>W8-7</p>  <p>EXPWY. 36"x36" FWY. 48"x48"</p>	<p>W9-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W13-1</p>  <p>STD. 24"x24"</p>	<p>W20-1</p>  <p>STD. 48"x48"</p>	<p>W20-2</p>  <p>STD. 48"x48"</p>	<p>W20-3</p>  <p>STD. 48"x48"</p>
<p>W20-4</p>  <p>STD. 48"x48"</p>	<p>W20-5</p>  <p>STD. 48"x48"</p>	<p>W20-7a</p>  <p>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>R56-1</p>  <p>STD. 18"x18"</p>
<p>W8-11</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W8-9</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>G20-1</p>  <p>60"x24"</p>	<p>G20-2</p>  <p>48"x24"</p>	<p>OM-3L OM-3R</p>  <p>12"x36"</p>	<p>M4-9</p>  <p>STD. 30"x24" SPECIAL 48"x36" SPECIAL 60"x48"</p>	<p>M4-10</p>  <p>48"x18"</p>	<p>R55-1</p>  <p>36"x60"</p> <p>• USE 6" C LETTERS •• USE 4" D LETTERS</p>

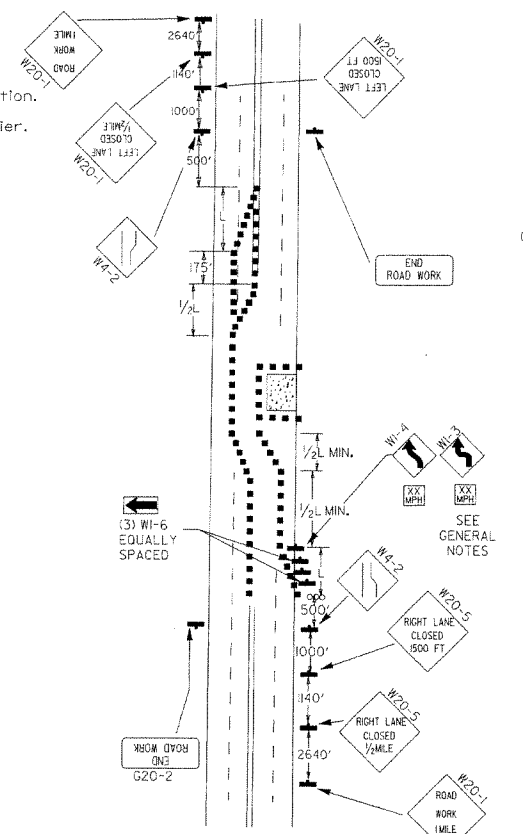
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FILMED



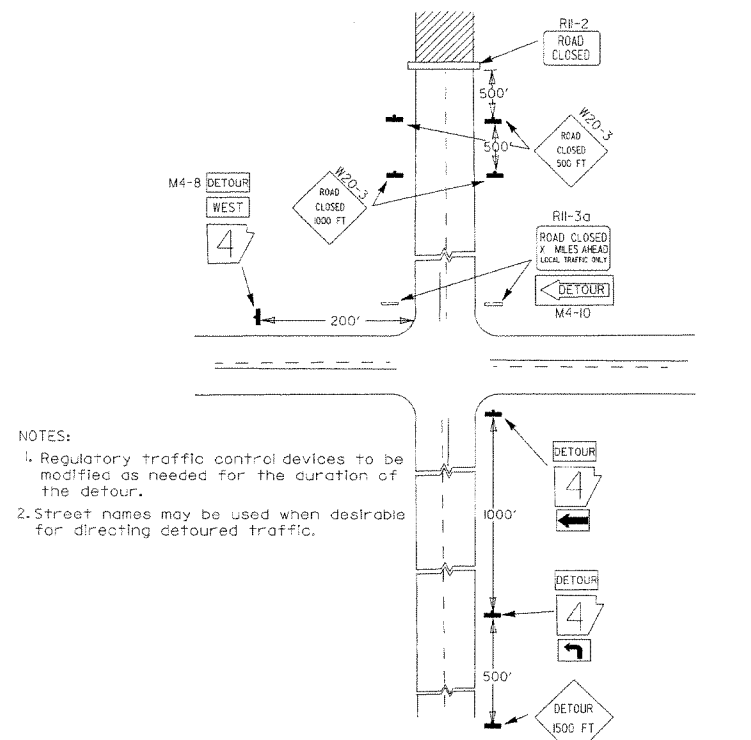
(A) Typical application of traffic control devices on a 2-lane highway where the entire roadway is closed and a bypass detour is provided.



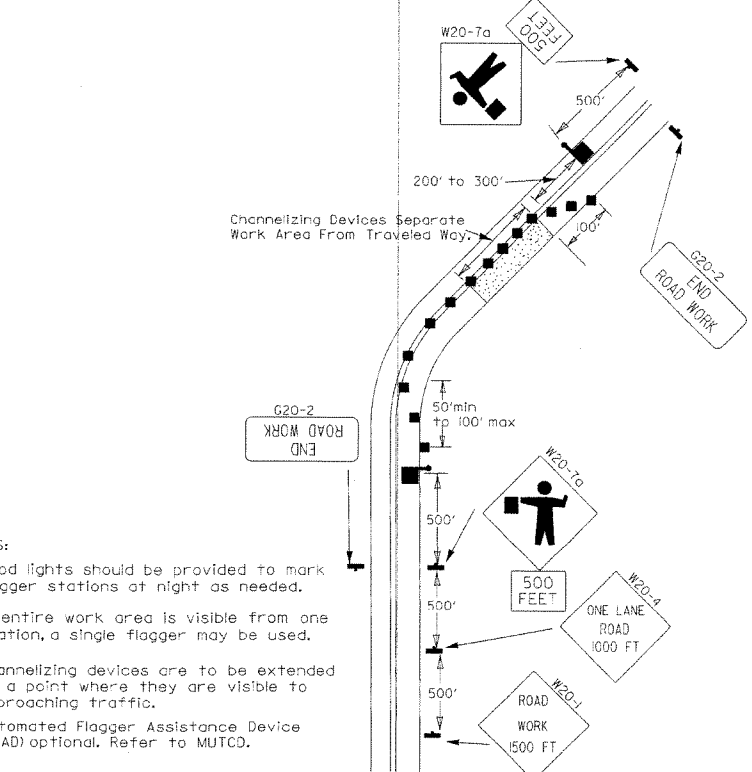
(B) Typical application - 4-lane divided roadway where one roadway is closed.



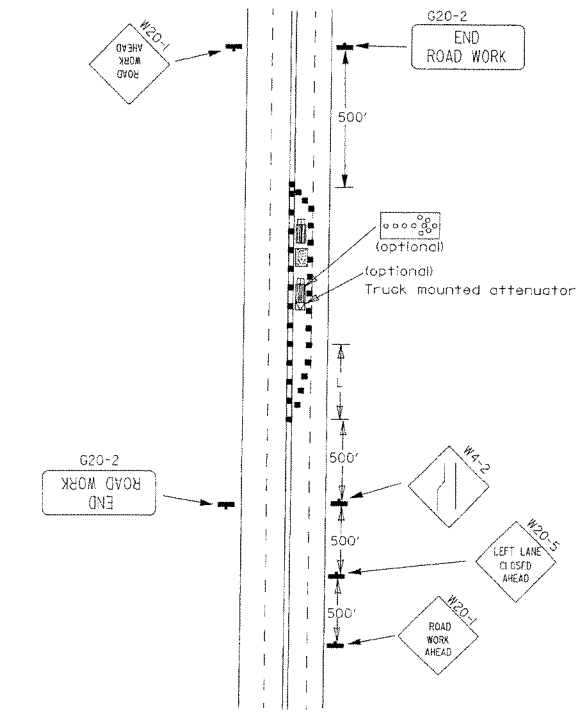
(C) Typical application - 4-lane undivided roadway where half of the roadway is closed.



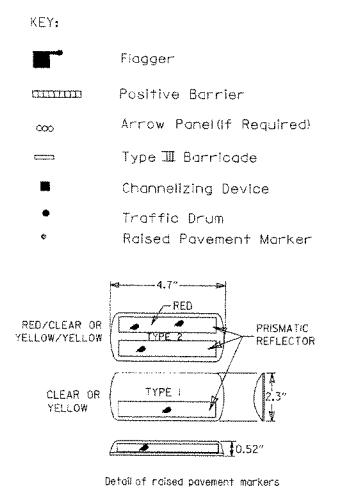
(D) Typical application - roadway closed behind detour point.



(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.



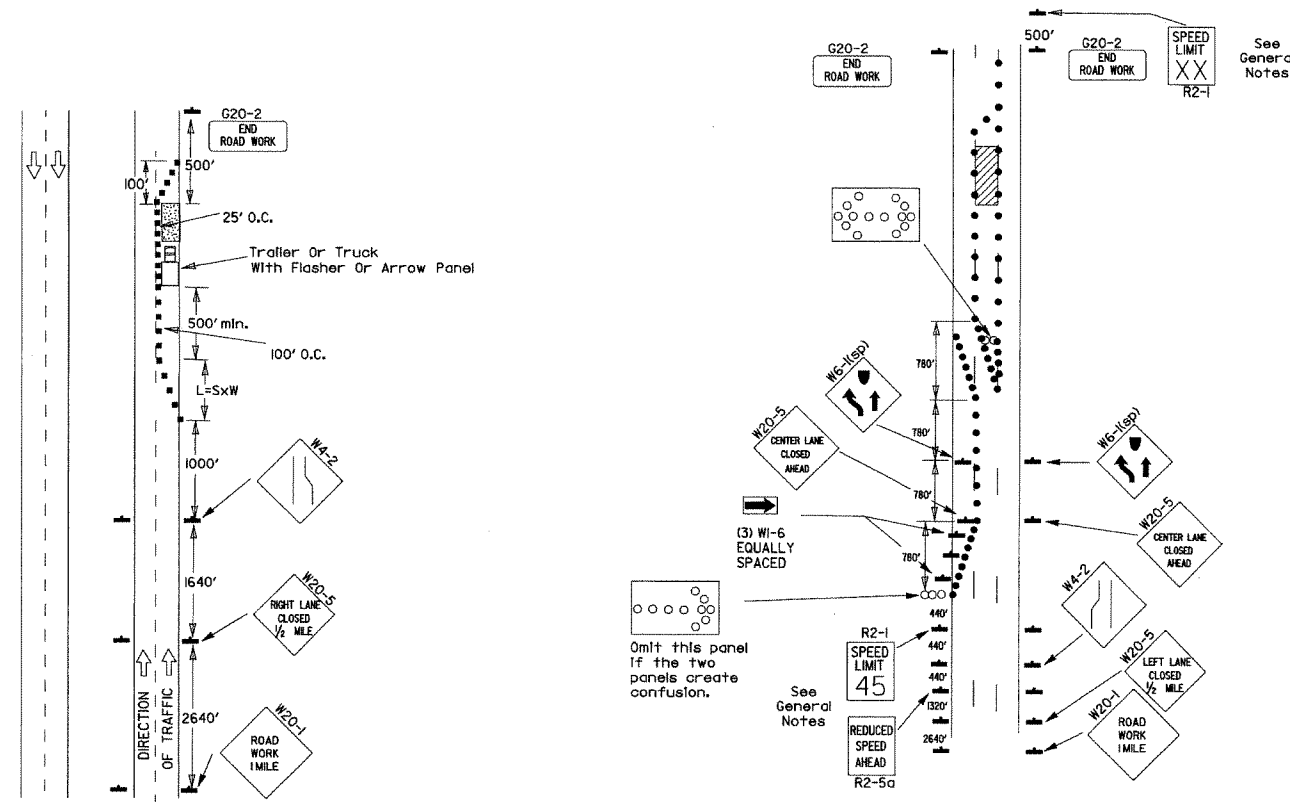
Typical advance warning sign placement

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.

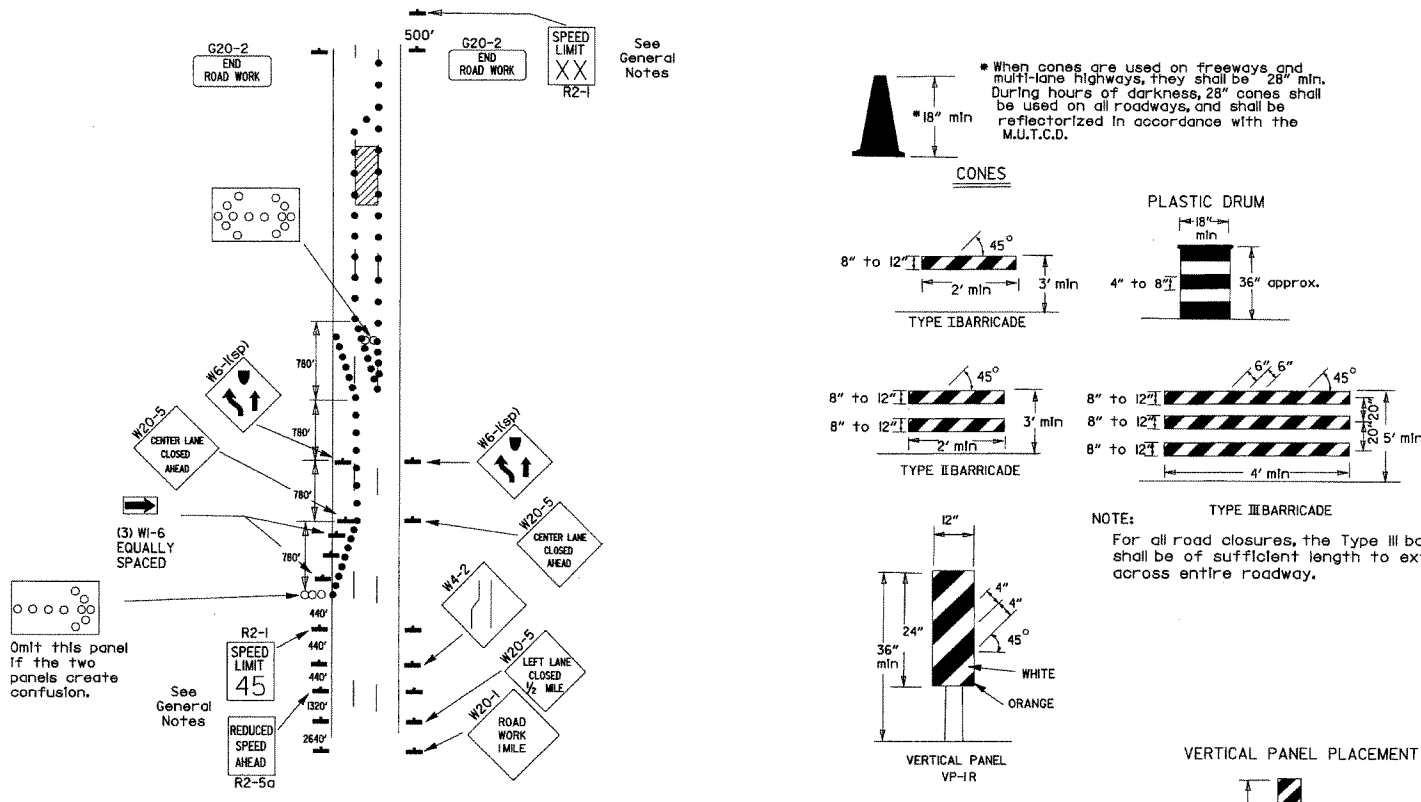
- GENERAL NOTES:
- Advisory speed posted on W1-3 or W1-4 curve warning signs to be determined at site. Use W1-4 when speed is greater than 30mph and W1-3 when 30mph or less.
 - When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(55) shall be omitted and the R2-1(45) 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(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(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)	
1-20-08	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	
8-5-91	DRAWN AND PLACED IN USE	

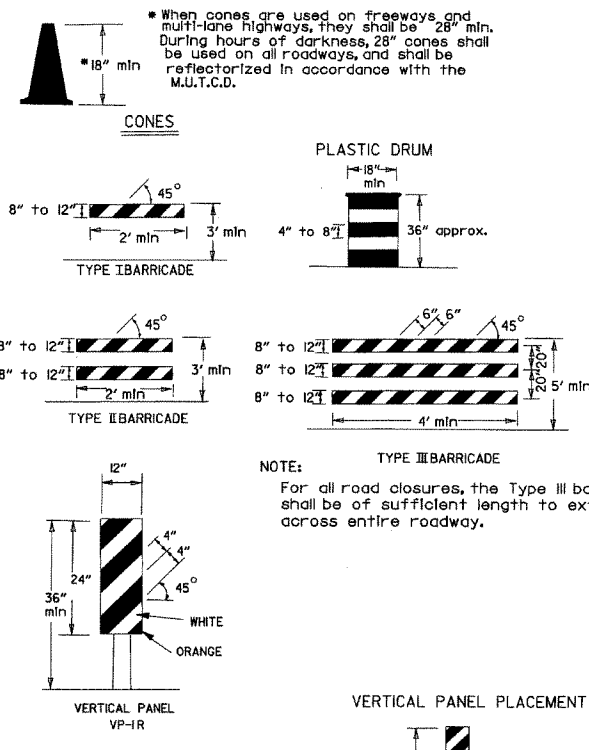
Channelizing devices



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



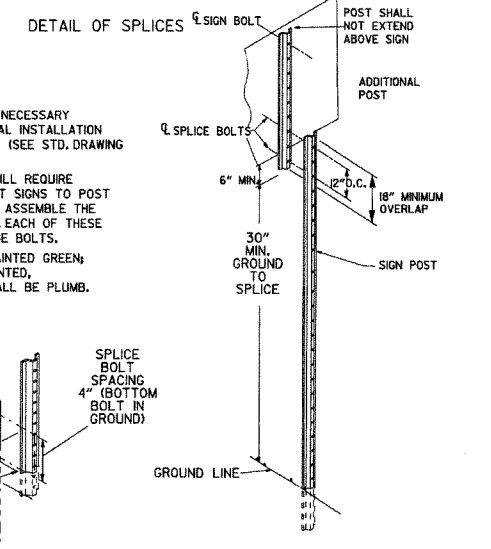
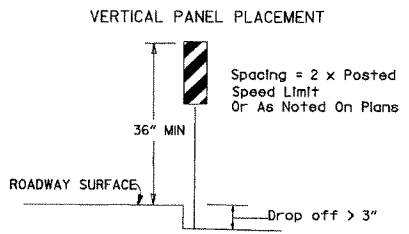
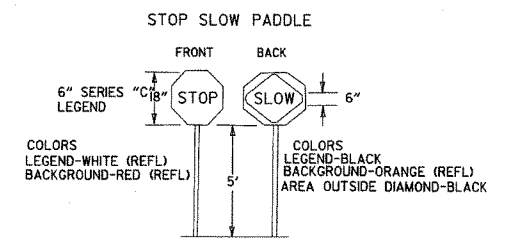
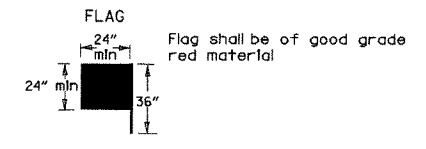
(B) Typical application - 3-lane one-way roadway where center lane is closed.



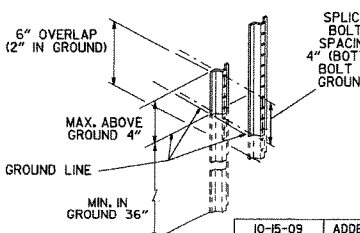
TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-11
1" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-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.



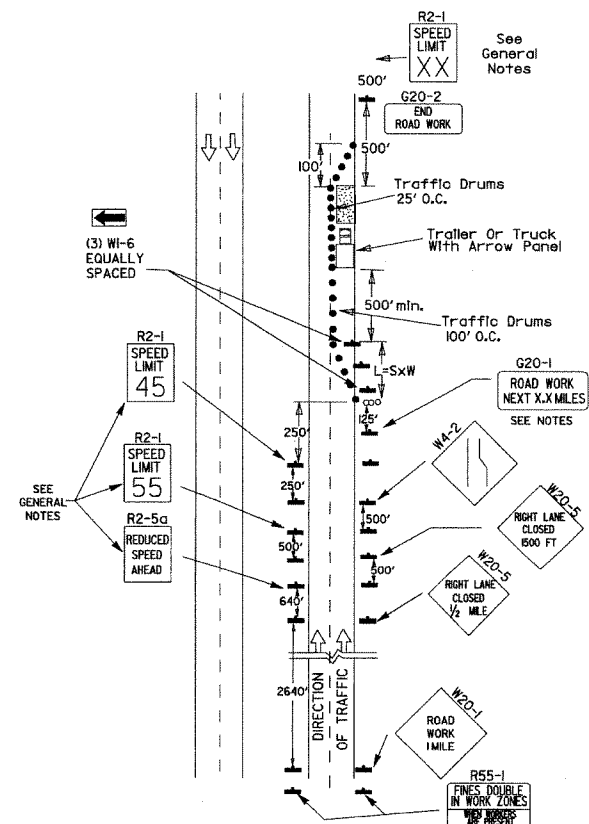
NOTES:
USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2)
NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS.
SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.



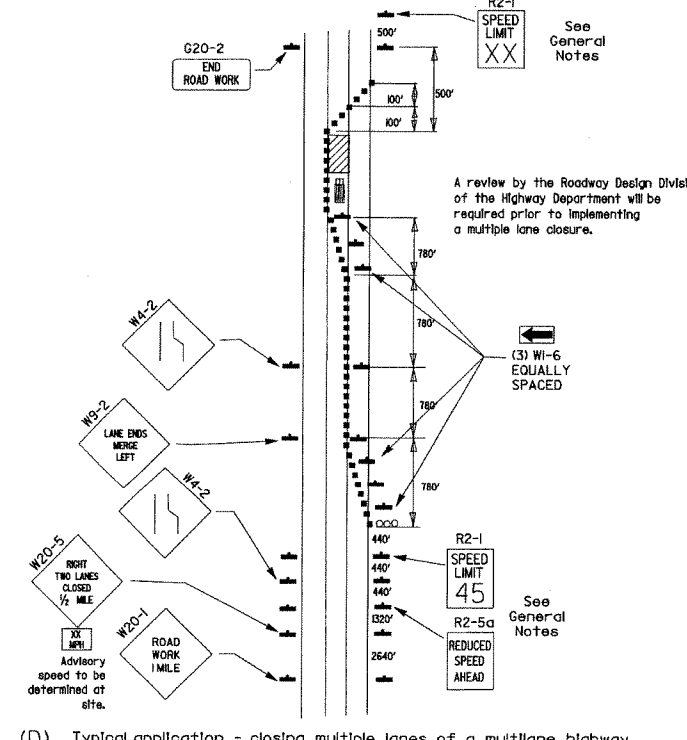
- KEY:
- Arrow Panel (if Required)
 - Channelizing Device
 - Traffic drum

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 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.



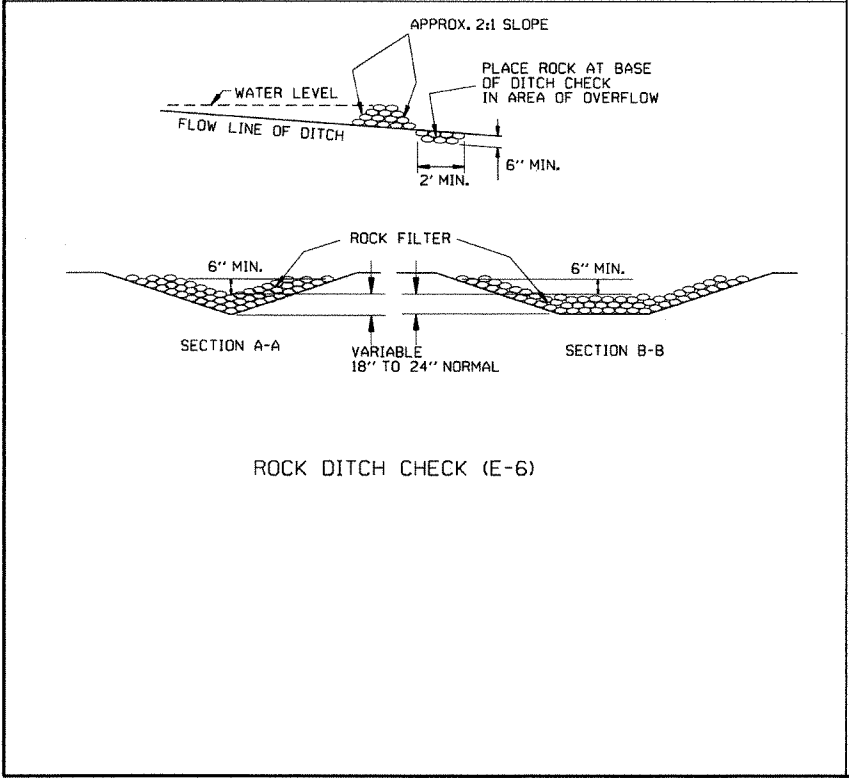
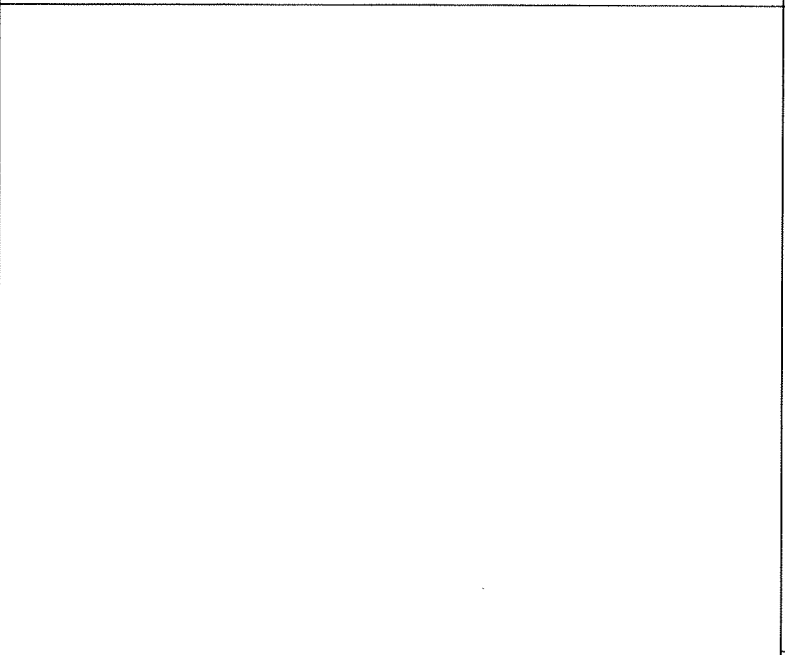
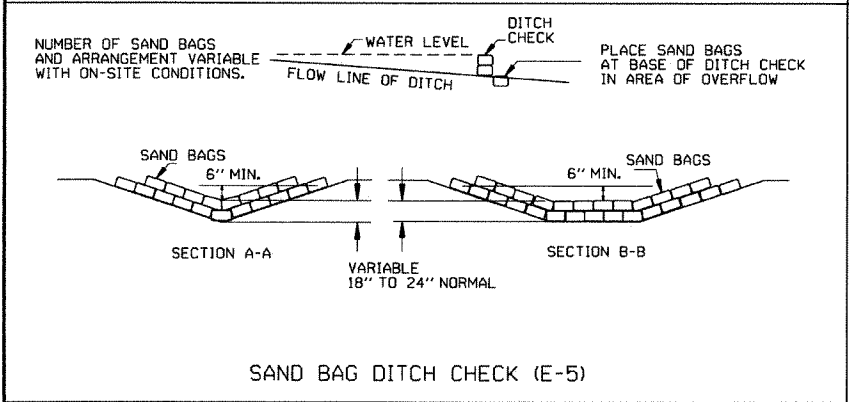
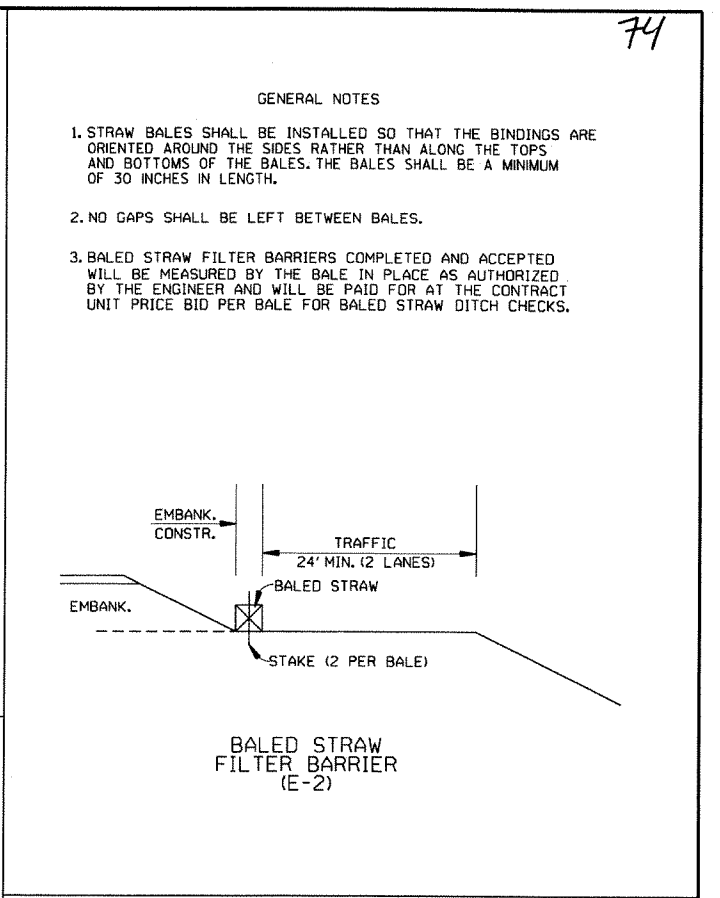
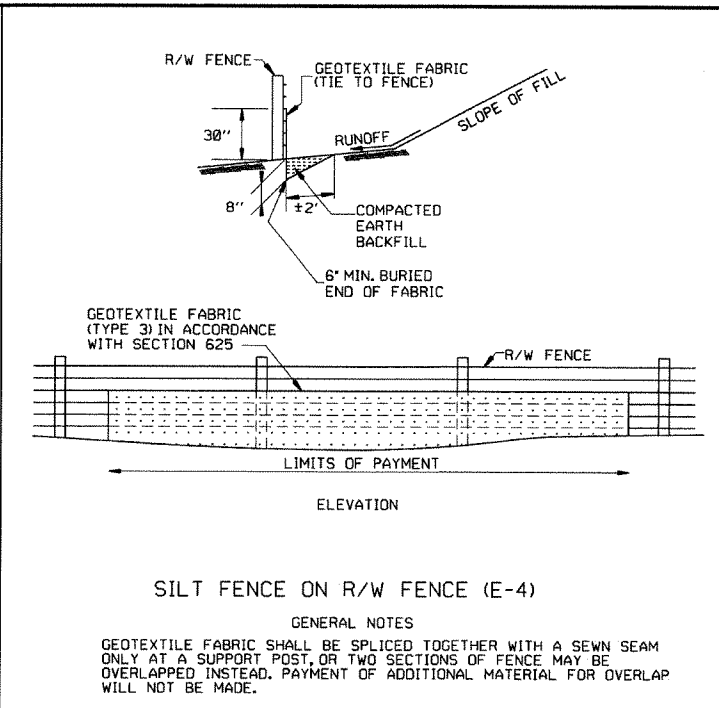
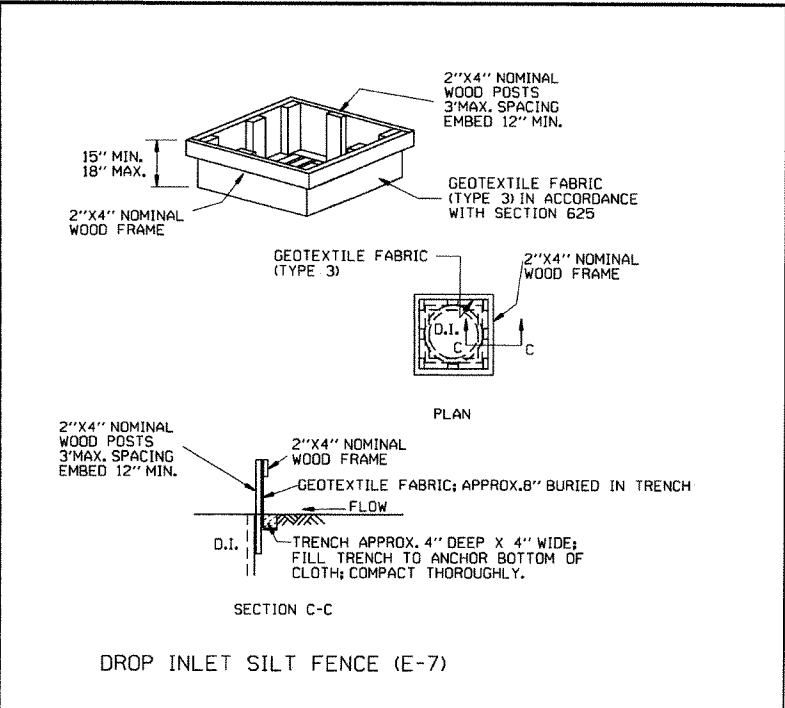
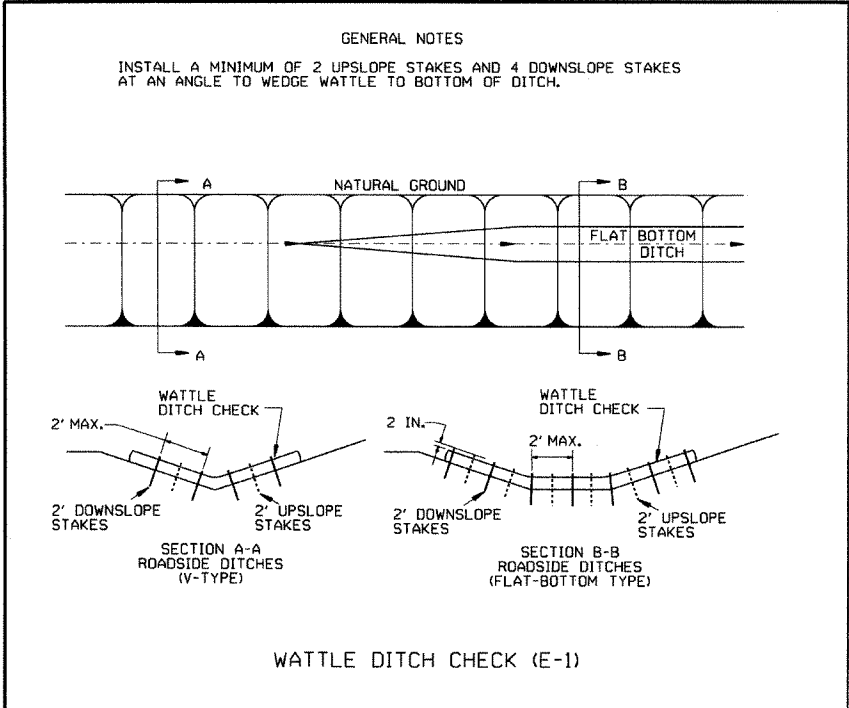
(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.



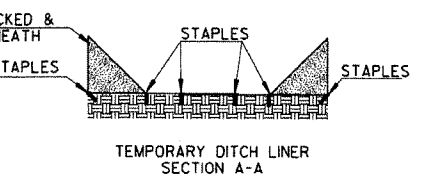
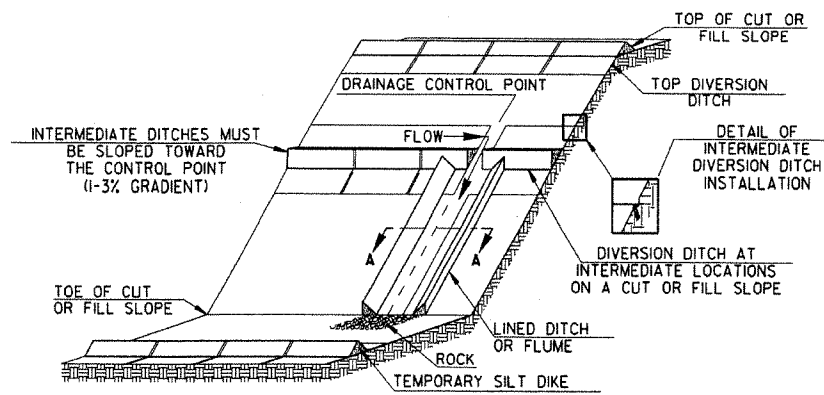
(D) Typical application - closing multiple lanes of a multilane highway.

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

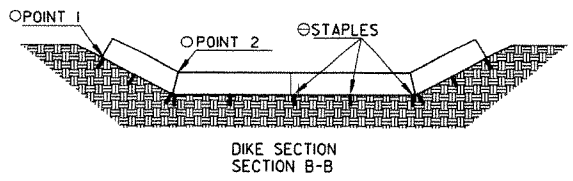
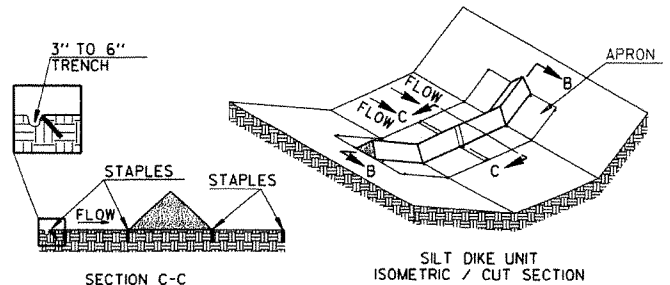
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-3



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

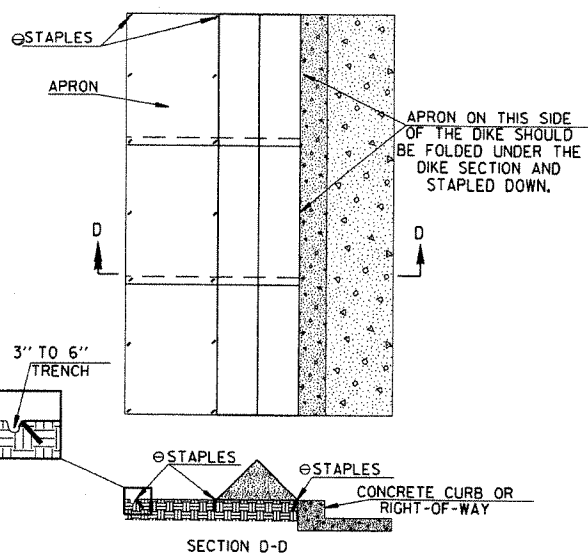


TRIANGULAR SILT DIKE INSTALLATION FOR DIVERSION DITCH AND/OR DITCH LINER

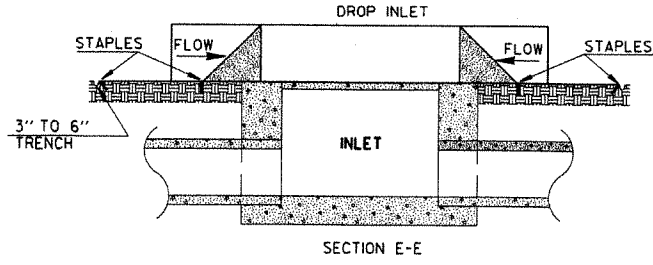
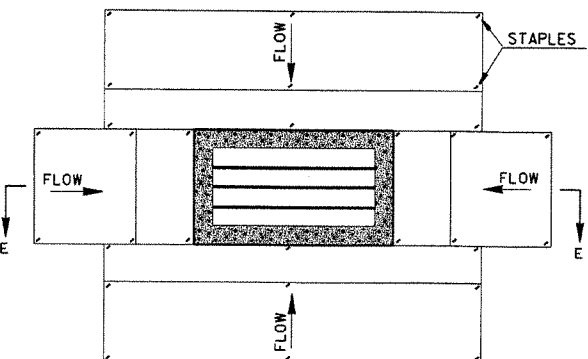


TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH

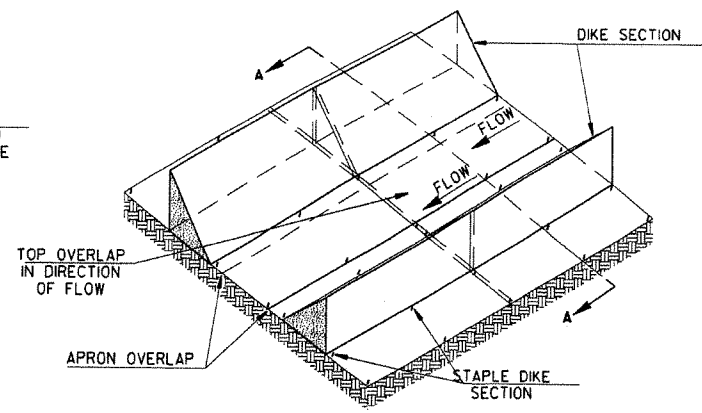
○ POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
 ⊗ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION FOR CONTINUOUS BARRIER



TRIANGULAR SILT DIKE INSTALLATION FOR DROP INLETS

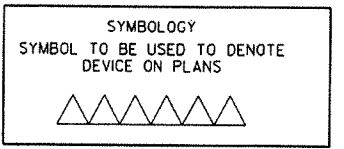


TRIANGULAR SILT DIKE INSTALLATION FOR TEMPORARY DITCH LINER

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.
2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.
3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.



NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

		ARKANSAS STATE HIGHWAY COMMISSION
		TEMPORARY EROSION CONTROL DEVICES
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	
DATE	REVISION	FILMED
		STANDARD DRAWING TEC-4