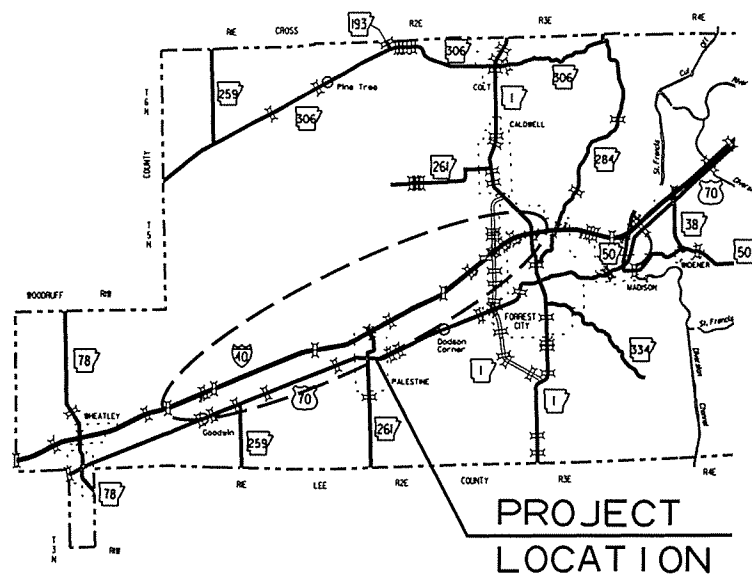


"A FULLY CONTROLLED ACCESS FACILITY"
 ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
 CONSTRUCTION PLANS FOR STATE HIGHWAY

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. BB0104	1	88

② GOODWIN-FORREST CITY (S)



VICINITY MAP

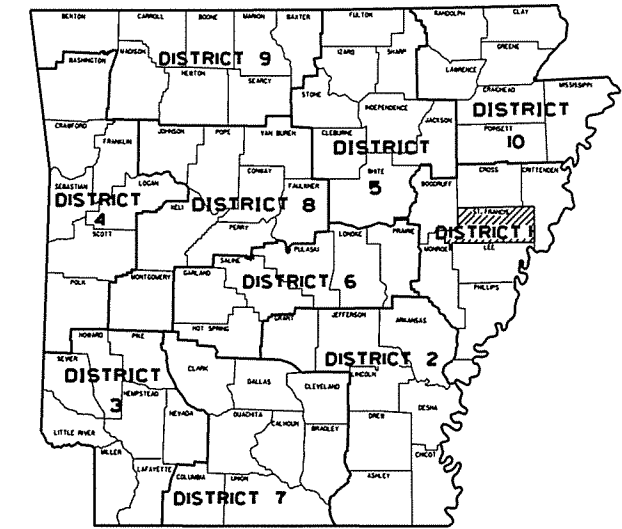
GOODWIN-FORREST CITY (S)

ST. FRANCIS COUNTY

ROUTE 40 SECTION 51

FED. AID PROJ. BIM-B40-0(204) & 9050

JOB NO. BB0104



ARK. HWY. DIST. NO. 1

NOT TO SCALE

STA. 3438+70.00
 BEGIN JOB NO. BB0104
 LOG MILE 228.23

BRIDGE DATA

- | | |
|---|---|
| ① STA. 3943+66.12 BR. END EXISTING 90.0' BRIDGE A3614 40'-0" CLEAR ROADWAY STA. 3944+56.12 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION | ③ STA. 4032+95.82 BR. END EXISTING 90.0' BRIDGE A3617 40'-0" CLEAR ROADWAY STA. 4033+85.82 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION |
| ② STA. 3944+87.45 BR. END EXISTING 90.0' BRIDGE B3614 40'-0" CLEAR ROADWAY STA. 3945+77.45 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION | ④ STA. 4034+14.44 BR. END EXISTING 90.0' BRIDGE B3617 40'-0" CLEAR ROADWAY STA. 4035+04.44 BR. END REHABILITATE BRIDGE DECK-HYDRODEMOLITION |

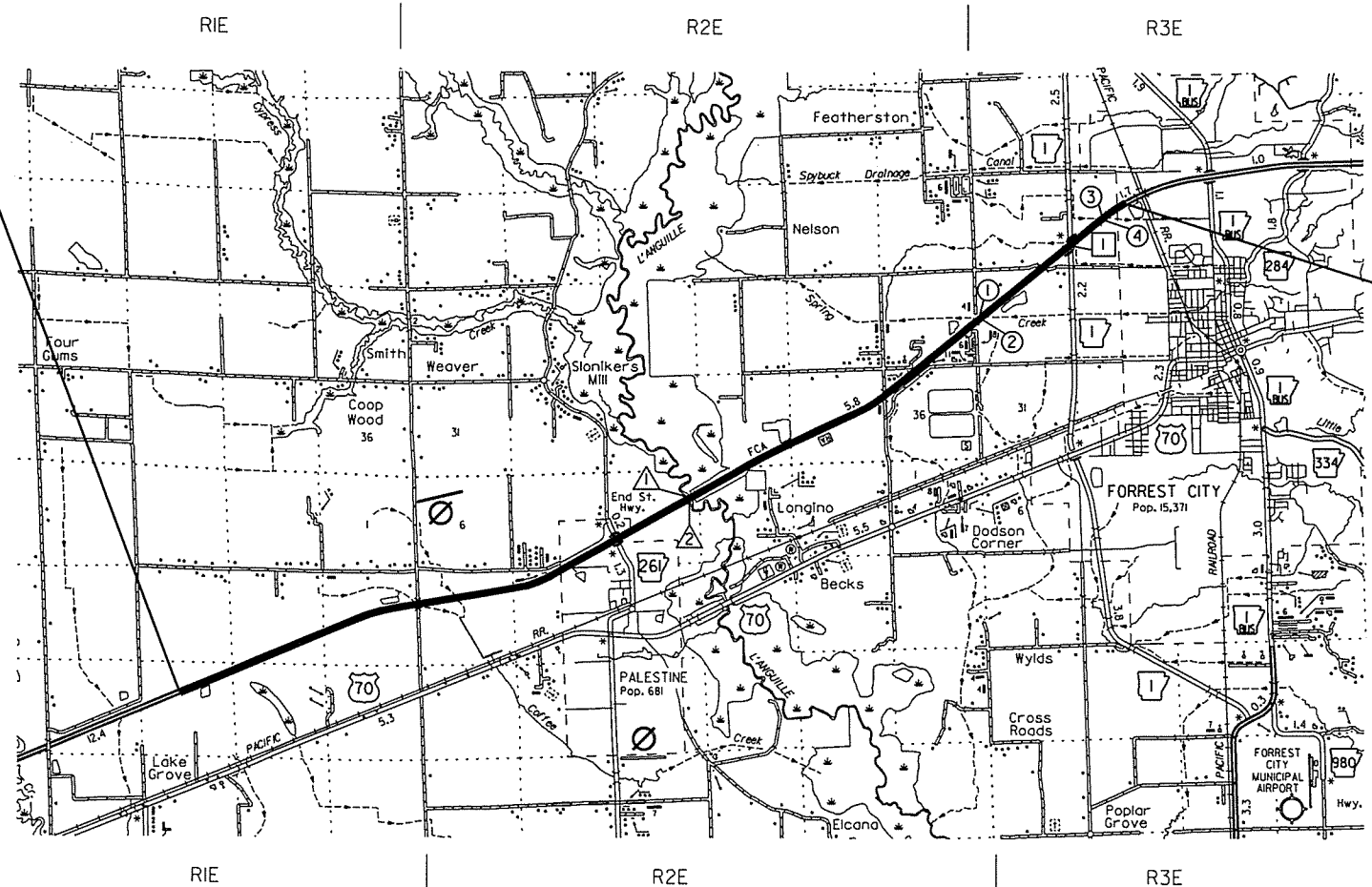
STRUCTURES OVER 20'-0" SPAN

- ① STA 4009+65 IN PLACE QUINTUPLE 12' X 6' X 172' R.C. BOX CULV'T. RETAIN

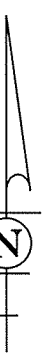
EXCEPTIONS TO JOB NO. BB0104 (BRIDGES)

- | | |
|---|---|
| ⚠ STA. 3745+08.53 BR. END 788.16' BRIDGE NO. A6518 41'-0" CLEAR ROADWAY STA. 3752+96.69 BR. END | ⚠ STA. 3745+08.53 BR. END 788.16' BRIDGE NO. B6518 41'-0" CLEAR ROADWAY STA. 3752+96.69 BR. END |
|---|---|

TOTAL LENGTH OF EXCEPTIONS 788.16' MEASURED ALONG CENTERLINE

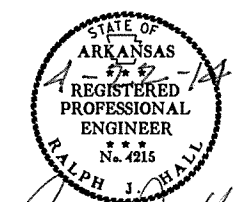


STA. 4050+67.90
 END JOB BB0104
 LOG MILE 239.82



T 5 N
T 4 N

APPROVED



Ralph J. Hall
 DEPUTY DIRECTOR
 AND CHIEF ENGINEER

LENGTH OF PROJECT CALCULATED ALONG C.L.

GROSS LENGTH OF PROJECT	6197.90	FEET OR	11.591	MILES
NET " " ROADWAY	60229.74	"	11.407	"
NET " " BRIDGES	180.00	"	0.034	"
NET " " PROJECT	60409.74	"	11.441	"

BEGINNING OF PROJECT	MID POINT OF PROJECT	END OF PROJECT
LATITUDE = N 34°57'45"	LATITUDE = N 34°59'21"	LATITUDE = N 35°01'59"
LONGITUDE = W 90°59'18"	LONGITUDE = W 90°53'31"	LONGITUDE = W 90°48'19"

4/10/2014

ZBORGER.CEL

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.	BB0104	2 88

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 - 4	TYPICAL SECTIONS OF IMPROVEMENT			
5 - 10	SPECIAL DETAILS			
11 - 31	TEMPORARY EROSION CONTROL DETAILS			
32 - 36	MAINTENANCE OF TRAFFIC			
37 - 41	QUANTITIES			
42	SCHEDULE OF BRIDGE QUANTITIES	A&B3614, A&B3617	55471	
43	SUMMARY OF QUANTITIES AND REVISIONS			
44 - 64	PLAN SHEETS			
65	DETAILS OF LATEX MODIFIED CONCRETE OVERLAY	A&B3614, A&B3617	55472	
66	LAYOUT OF BRIDGE OVER SPRING CREEK (FOR INFORMATION ONLY)	A3614	55473	
67	LAYOUT OF BRIDGE OVER SPRING CREEK (FOR INFORMATION ONLY)	B3614	55474	
68	LAYOUT OF BRIDGE OVER DRAINAGE DITCH (FOR INFORMATION ONLY)	A3617	55475	
69	LAYOUT OF BRIDGE OVER DRAINAGE DITCH (FOR INFORMATION ONLY)	B3617	55476	
70	DETAILS OF STANDARD 30'-0" R.C. SLAB SPANS (WITH VOIDS) (FOR INFORMATION ONLY)	A&B3614, A&B3617	55477	
71	LAYOUT OF BRIDGES OVER SPRING CREEK AND DRAINAGE DITCH (FOR INFORMATION ONLY)	A&B3614, A&B3617	55478	
72	DETAILS OF CONCRETE PARAPET RAILING (FOR INFORMATION ONLY)	A&B3614, A&B3617	55479	
73	CONCRETE DITCH PAVING		CDP-1	11-17-10
74	GUARD RAIL DETAILS		GR-8	7-14-10
75	GUARD RAIL DETAILS		GR-9	4-17-08
76	GUARD RAIL DETAILS		GR-9A	4-17-08
77	GUARD RAIL DETAILS		GR-10	7-14-10
78	GUARD RAIL DETAILS		GR-10A	7-14-10
79	GUARD RAIL DETAILS		GRT-1	7-14-10
80	PAVEMENT MARKING DETAILS		PM-1	9-12-13
81	PERMANENT PAVEMENT MARKING ON ACCESS CONTROLLED ROADWAYS		PM-2	9-12-13
82	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		TC-1	12-15-11
83	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		TC-2	9-12-13
84	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		TC-3	10-15-09
85	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER		TC-4	2-27-14
86	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER		TC-5	10-15-09
87	TEMPORARY EROSION CONTROL DEVICES		TEC-1	12-15-11
88	DETAILS OF STANDARD TURNOUT FOR ENTRANCE & EXIT RAMP (NON-REINFORCED)		TR-1A	8-22-02

GOVERNING SPECIFICATIONS

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

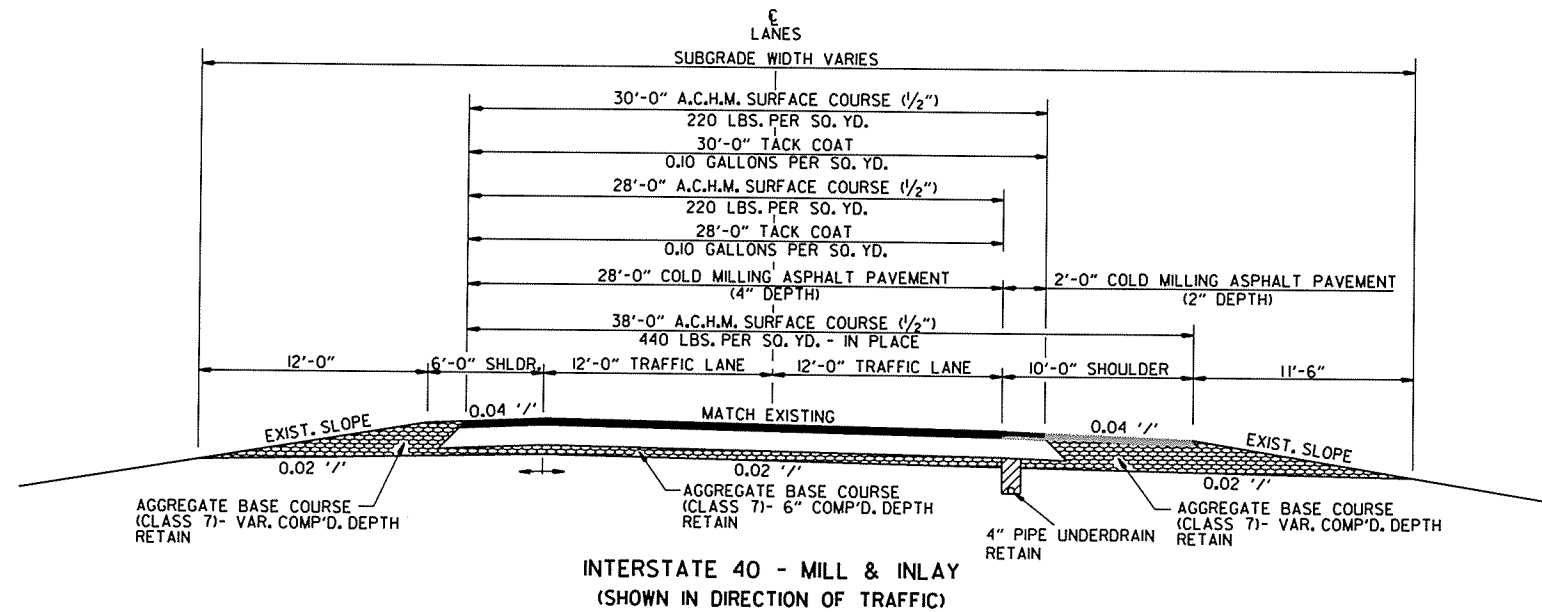
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - TRAINING PROGRAM - JOB BB0104
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
108-1	LIQUIDATED DAMAGES
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
620-1	MULCH COVER
JOB BB0104	ASSESSMENT OF WORKING DAYS - SATURDAYS
JOB BB0104	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB BB0104	CONCRETE DITCH PAVING
JOB BB0104	COORDINATION OF WORK
JOB BB0104	CULVERT REHABILITATION
JOB BB0104	ELECTRONIC SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB BB0104	EMPLOYMENT REPORTING
JOB BB0104	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB BB0104	HIGH PERFORMANCE PAVEMENT MARKING
JOB BB0104	HYDRODEMOLITION
JOB BB0104	LATEX MODIFIED CONCRETE OVERLAY
JOB BB0104	MAINTENANCE OF TRAFFIC
JOB BB0104	MANAGEMENT OF HYDRODEMOLITION WASTEWATER
JOB BB0104	MANDATORY USE OF INTERNET BIDDING
JOB BB0104	PARTNERING REQUIREMENTS
JOB BB0104	PERCENT WITHIN LIMITS/PAVEMENT SMOOTHNESS
JOB BB0104	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIERS
JOB BB0104	SEQUENCE OF CONSTRUCTION
JOB BB0104	SITE USE (A + C METHOD)
JOB BB0104	STORM WATER POLLUTION PREVENTION PLAN
JOB BB0104	TEMPORARY PORTABLE RUMBLE STRIPS
JOB BB0104	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB BB0104	TRENCHING AND SHOULDER PREPARATION
JOB BB0104	UNDERDRAIN FLUSHING AND REHABILITATION
JOB BB0104	UTILITY ADJUSTMENTS
JOB BB0104	VALUE ENGINEERING
JOB BB0104	WARM MIX ASPHALT
JOB BB0104	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB BB0104	WIRE ROPE SAFETY FENCE (POST REPAIR)
JOB BB0104	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB BB0104	WRSF TRAINING WORKSHOP

GENERAL NOTES

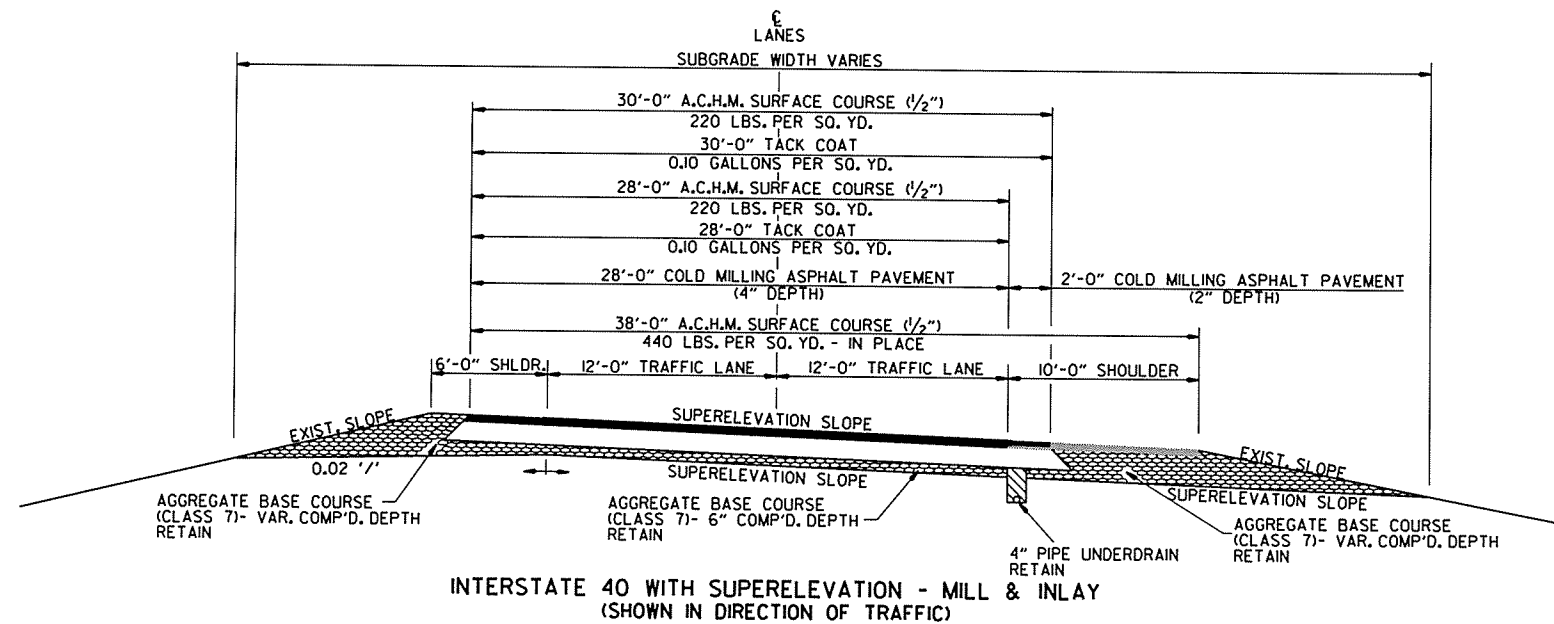
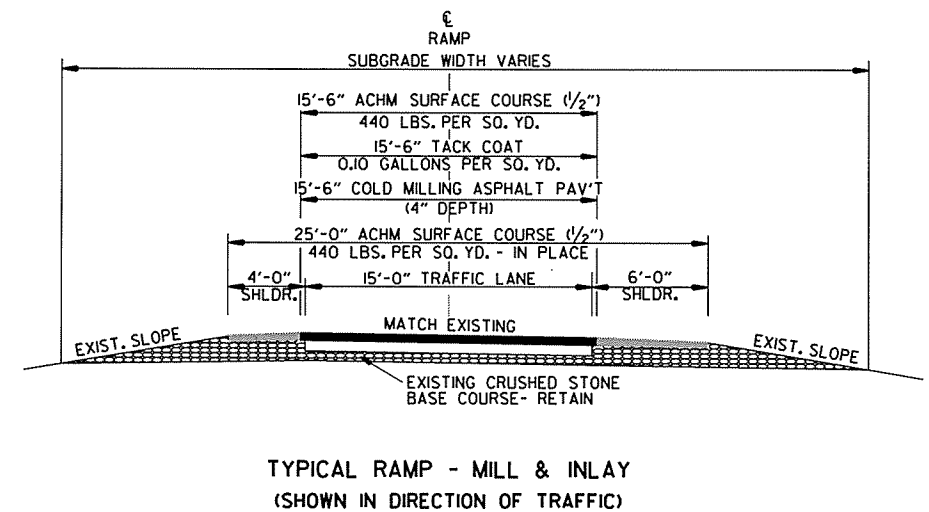
- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE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

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				6	ARK.			
				JOB NO.	BB0104		3	88

2 TYPICAL SECTIONS OF IMPROVEMENT



LT. MAIN LANES	RT. MAIN LANES
3573+64.00 TO 3590+64.00	3573+64.00 TO 3590+64.00
3694+14.90 TO 3708+64.90	3694+14.90 TO 3708+64.90
3868+22.00 TO 3882+22.00	3868+22.00 TO 3882+22.00
3936+12.44 TO 3943+29.62	3937+17.95 TO 3944+50.95
3944+92.62 TO 3952+12.44	3946+13.95 TO 3953+17.95
3982+14.70 TO 3997+64.70	3983+14.70 TO 3996+64.70
4008+92.50 TO 4010+37.50	4008+92.50 TO 4010+37.50
4026+96.32 TO 4032+59.32	4027+01.94 TO 4033+77.94
4034+22.32 TO 4050+67.90	4035+40.94 TO 4050+67.90

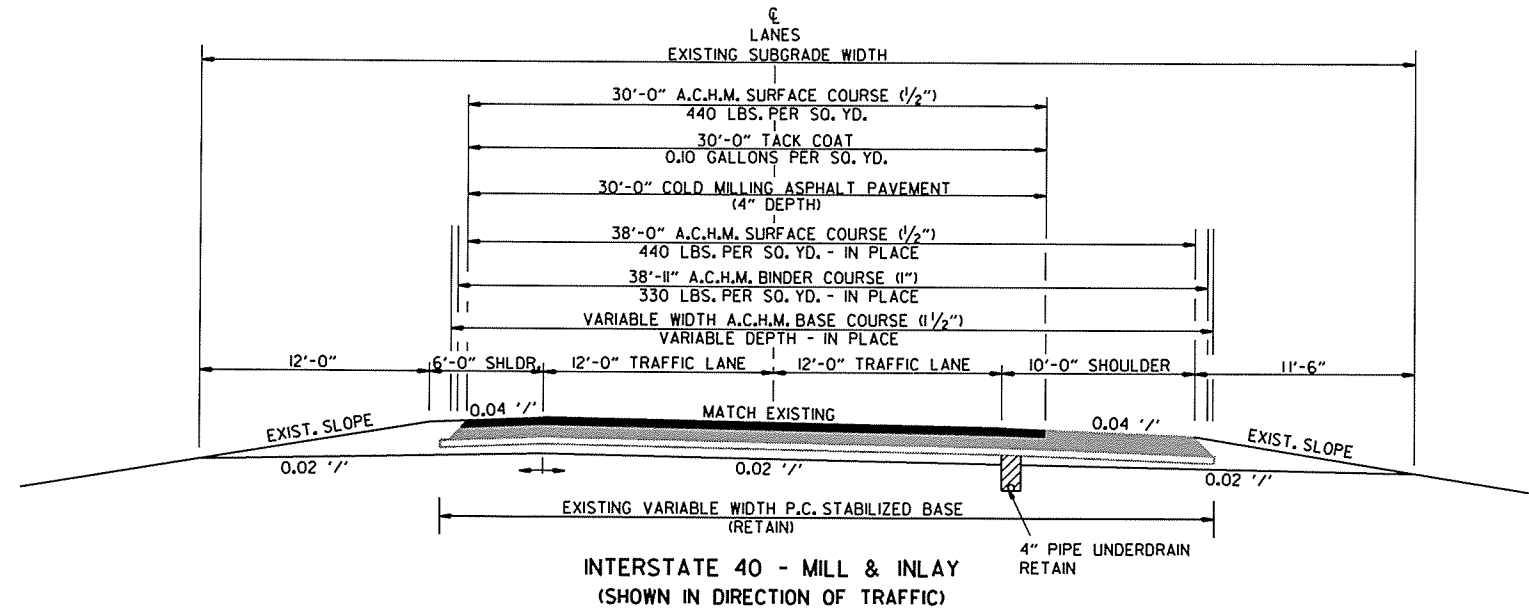


1/17/2014

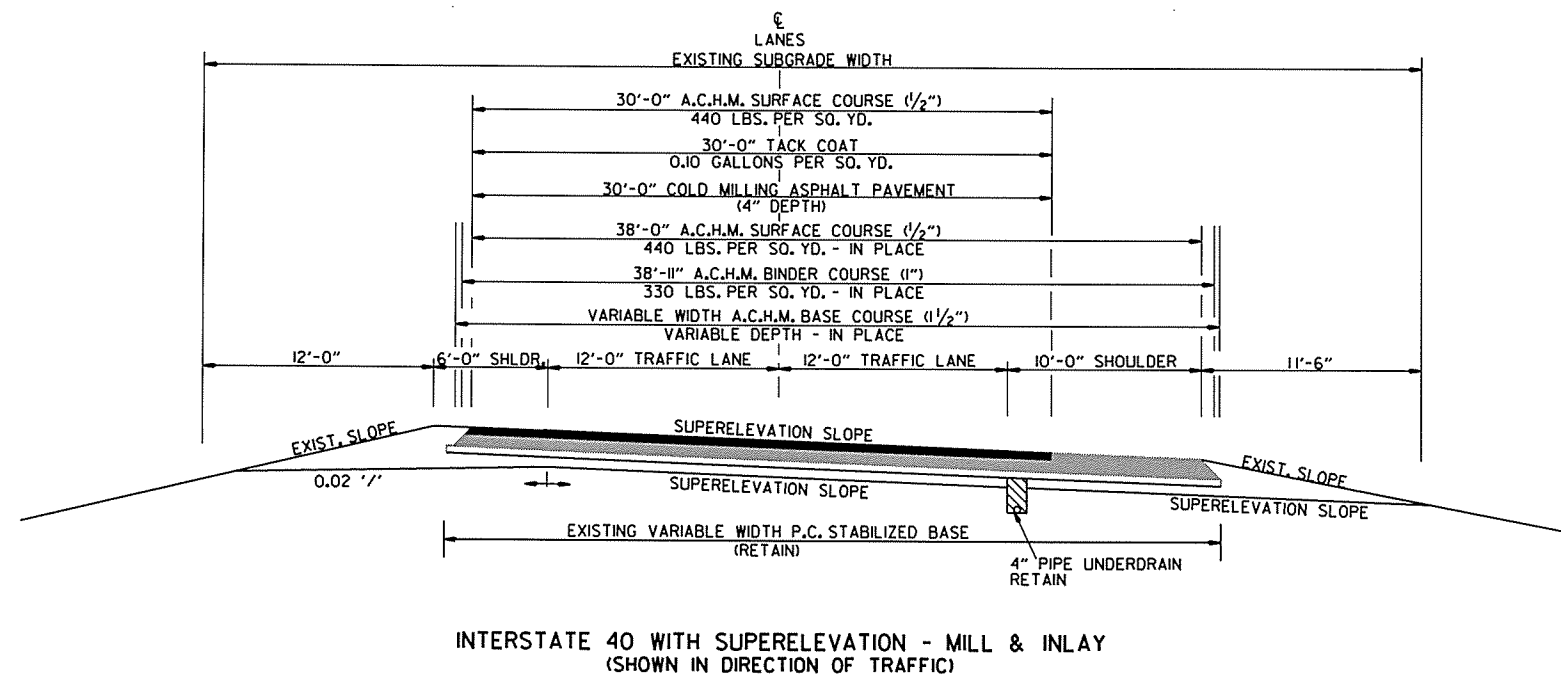
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO.						BB0104	3A	88

2 TYPICAL SECTIONS OF IMPROVEMENT



LT. MAIN LANES	RT. MAIN LANES
3438+70.00 TO 3573+64.00	3438+70.00 TO 3573+64.00
3590+64.00 TO 3694+14.90	3590+64.00 TO 3694+14.90
3708+64.90 TO 3744+72.03	3708+64.90 TO 3744+72.03
3753+33.19 TO 3868+22.00	3753+33.19 TO 3868+22.00
3882+22.00 TO 3936+12.44	3882+22.00 TO 3937+17.95
3952+12.44 TO 3982+14.70	3953+17.95 TO 3983+14.70
3997+64.70 TO 4008+92.50	3996+64.70 TO 4008+92.50
4010+37.50 TO 4026+96.32	4010+37.50 TO 4027+01.94



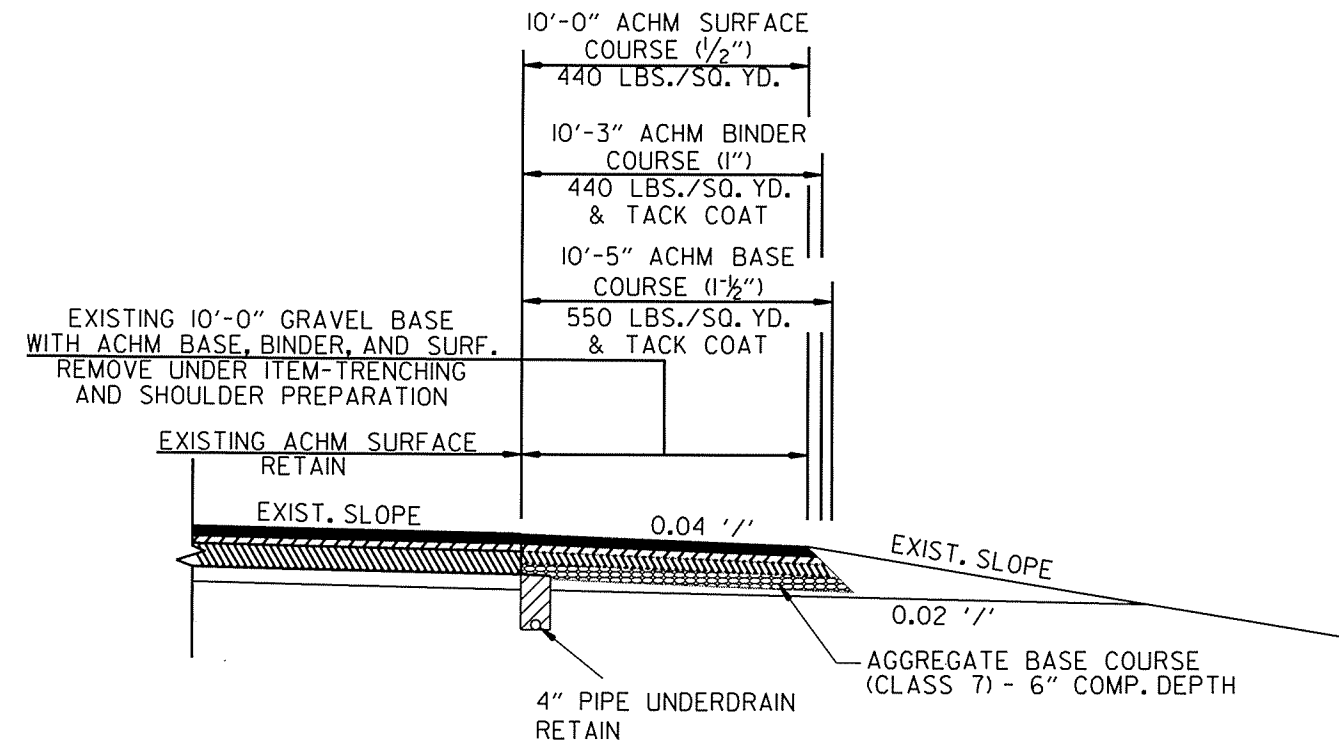
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TYPICAL SECTIONS OF IMPROVEMENT

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.	BB0104		4	88

② TYPICAL SECTIONS OF IMPROVEMENT



TYPICAL SECTION OF SHOULDER RECONSTRUCTION FOR MAINTENANCE OF TRAFFIC

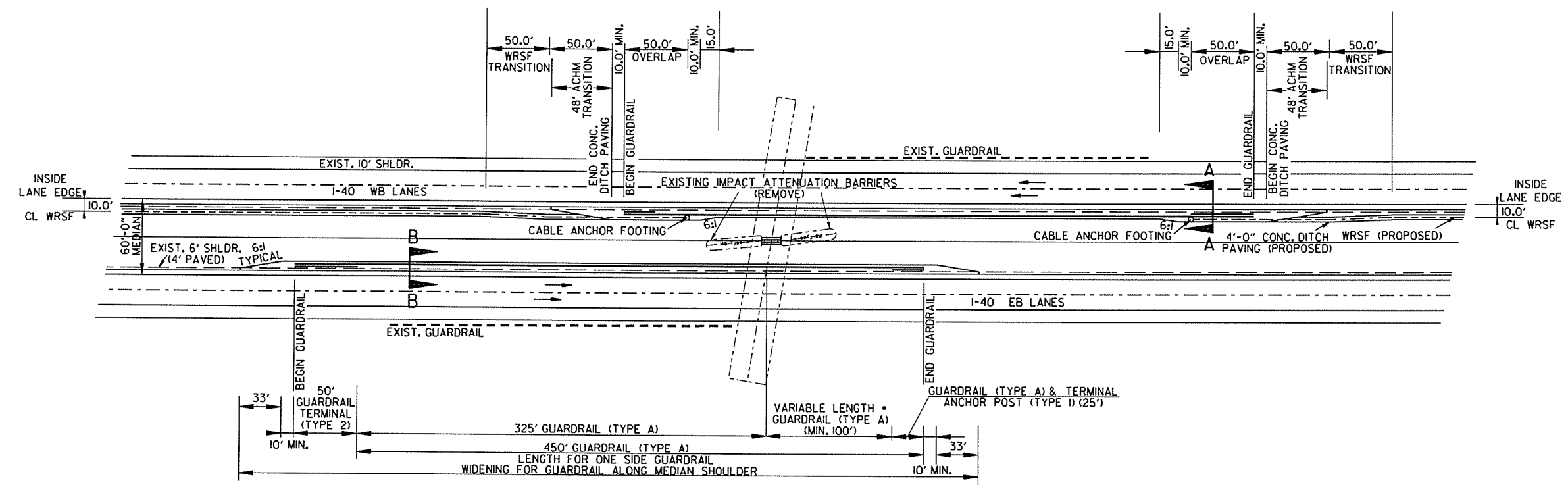
- | | |
|--|--|
| STA. 3942+10.95 TO STA. 3944+50.95 (RT. OF RT. MAIN LANES) | STA. 3940+89.62 TO STA. 3943+29.62 (LT. OF LT. MAIN LANES) |
| STA. 3946+13.95 TO STA. 3948+53.95 (RT. OF RT. MAIN LANES) | STA. 3944+92.62 TO STA. 3947+32.62 (LT. OF LT. MAIN LANES) |
| STA. 4031+37.94 TO STA. 4033+77.94 (RT. OF RT. MAIN LANES) | STA. 4030+19.32 TO STA. 4032+59.32 (LT. OF LT. MAIN LANES) |
| STA. 4035+40.94 TO STA. 4037+80.94 (RT. OF RT. MAIN LANES) | STA. 4034+22.32 TO STA. 4036+62.32 (LT. OF LT. MAIN LANES) |

1/17/2014

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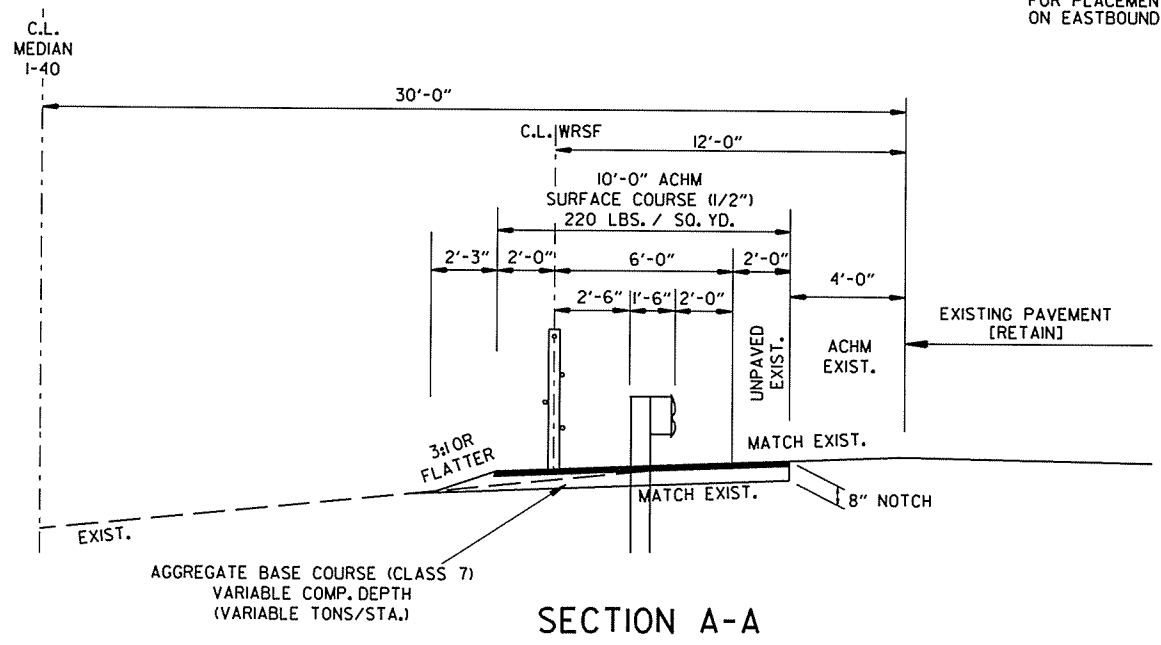
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				6	ARK.			
				JOB NO.	BB0104		5	88

2 SPECIAL DETAILS

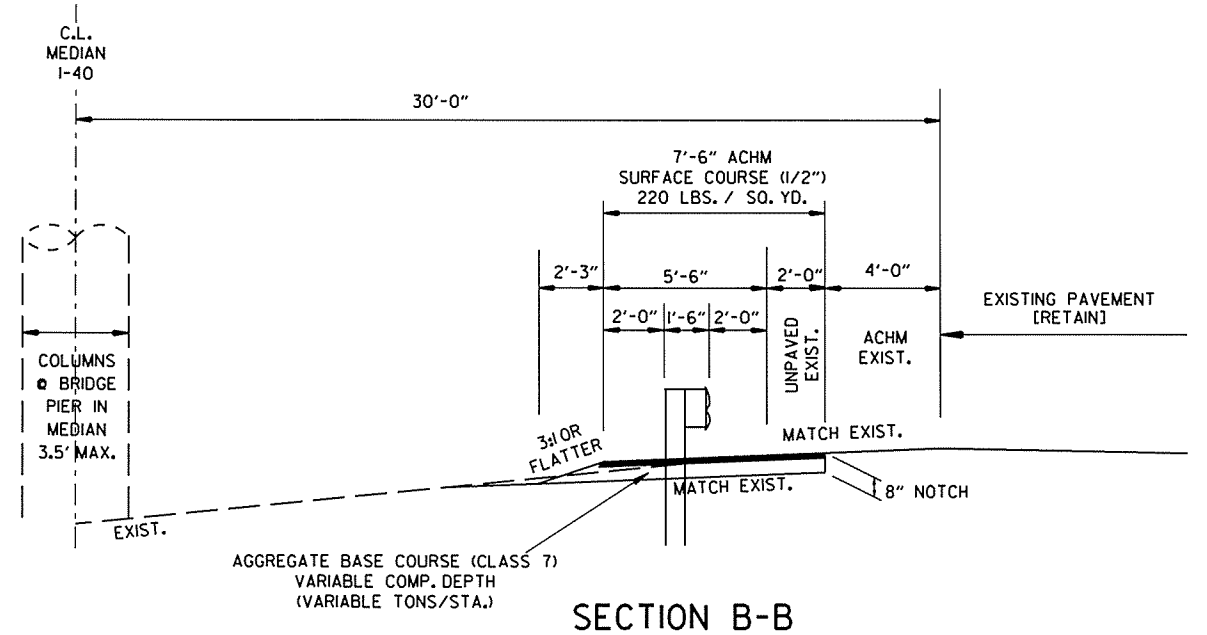


DETAIL AT OVERPASSES

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



SECTION A-A



SECTION B-B

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

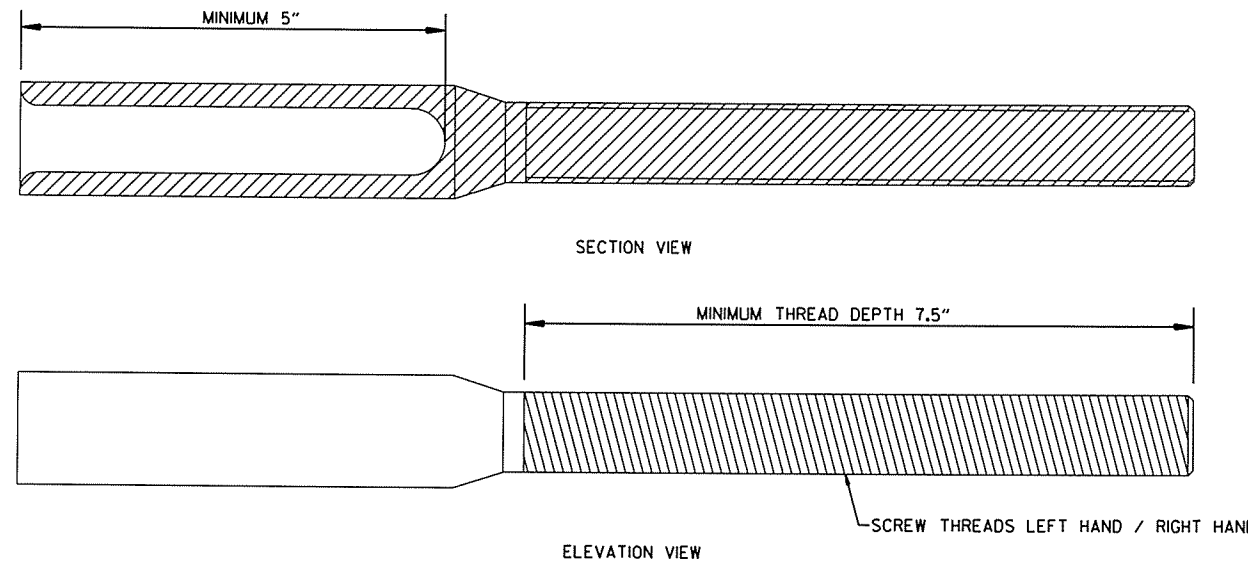
SPECIAL DETAILS

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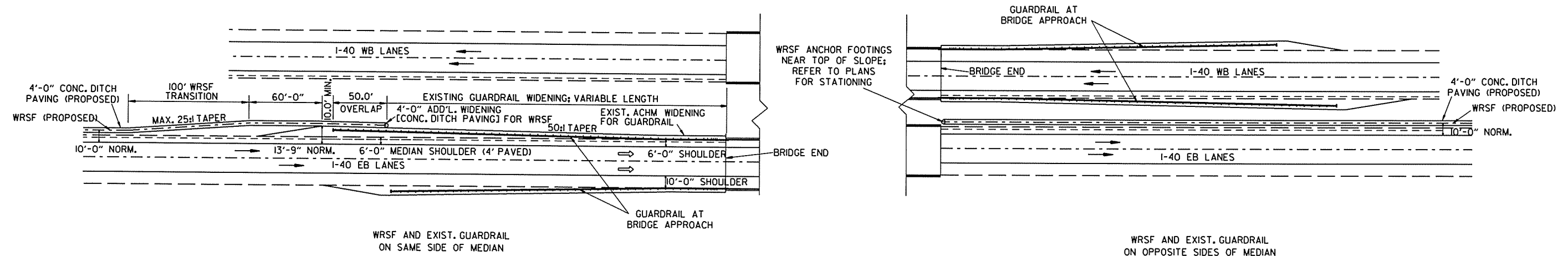
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				6	ARK.				
JOB NO.							BB0104	6	88

② SPECIAL DETAILS



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

THREADED TERMINAL DETAIL



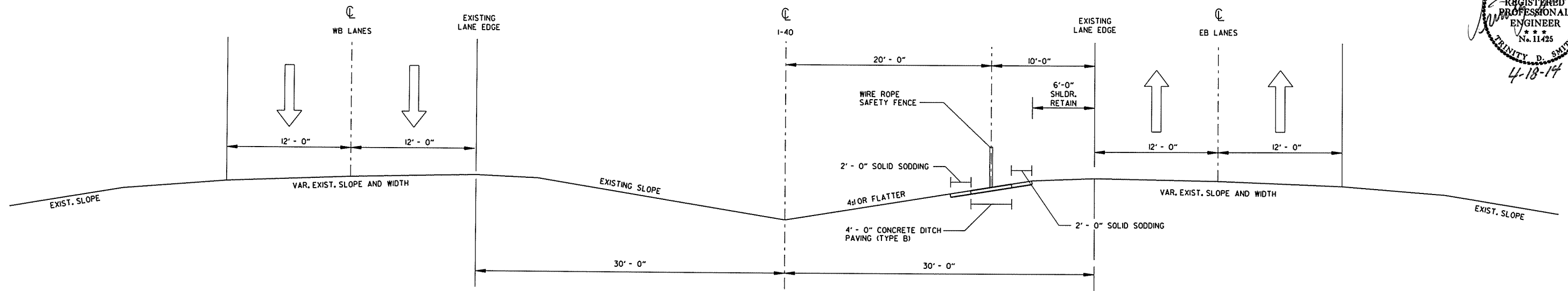
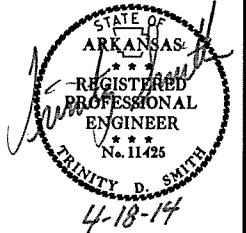
DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS

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

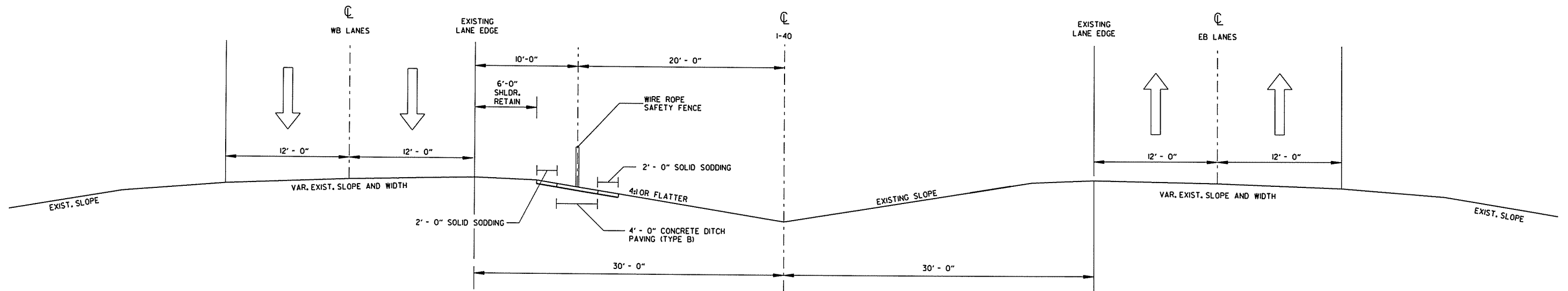
SPECIAL DETAILS

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				6	ARK.			
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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

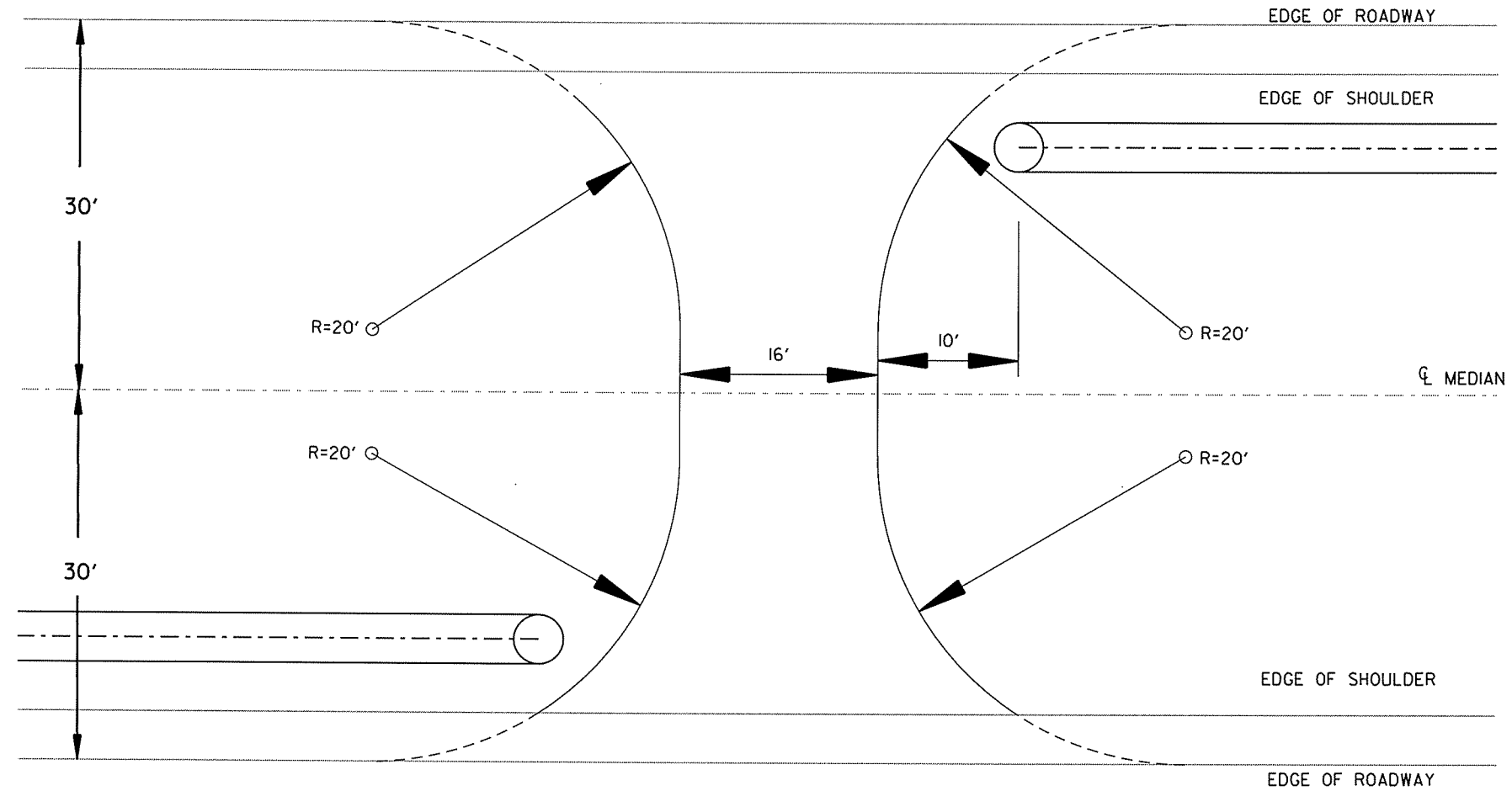
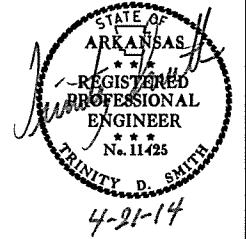
SPECIAL DETAILS

1/16/2014

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JOB NO.						BB0104	8	88

② SPECIAL DETAILS



DETAIL OF PROPOSED MEDIAN CROSSING

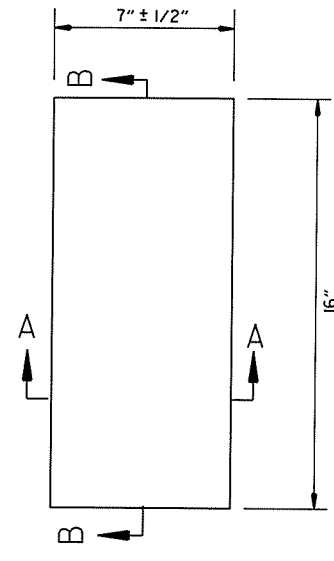
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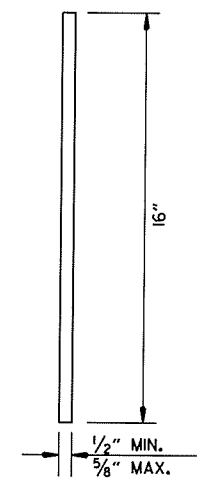
SPECIAL DETAILS

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							JOB NO. BB0104	9	88

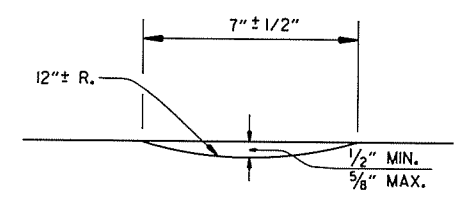
2 SPECIAL DETAILS



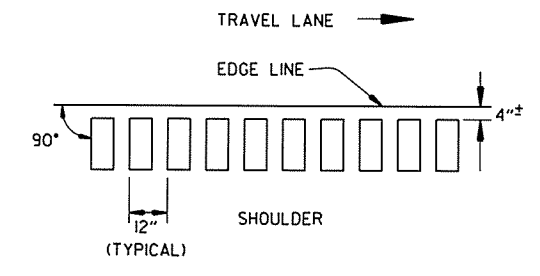
PLAN



SECTION B-B

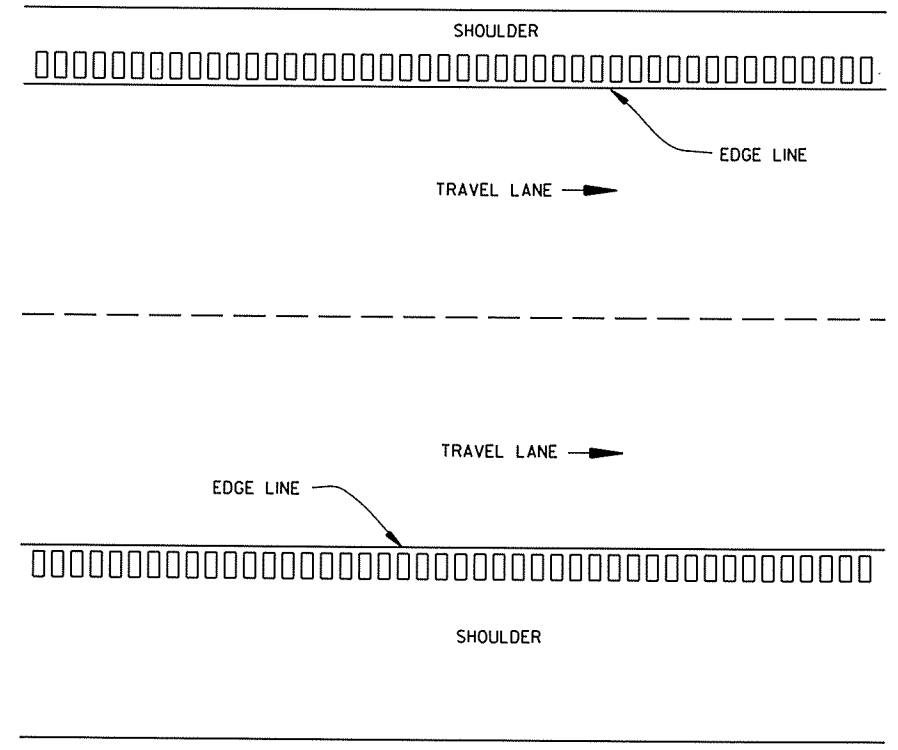


SECTION A-A



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.

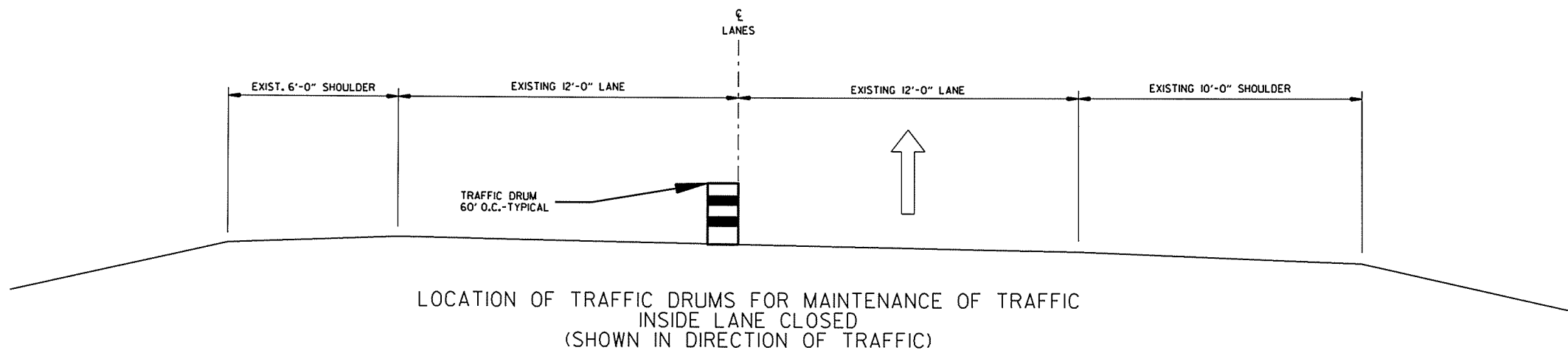
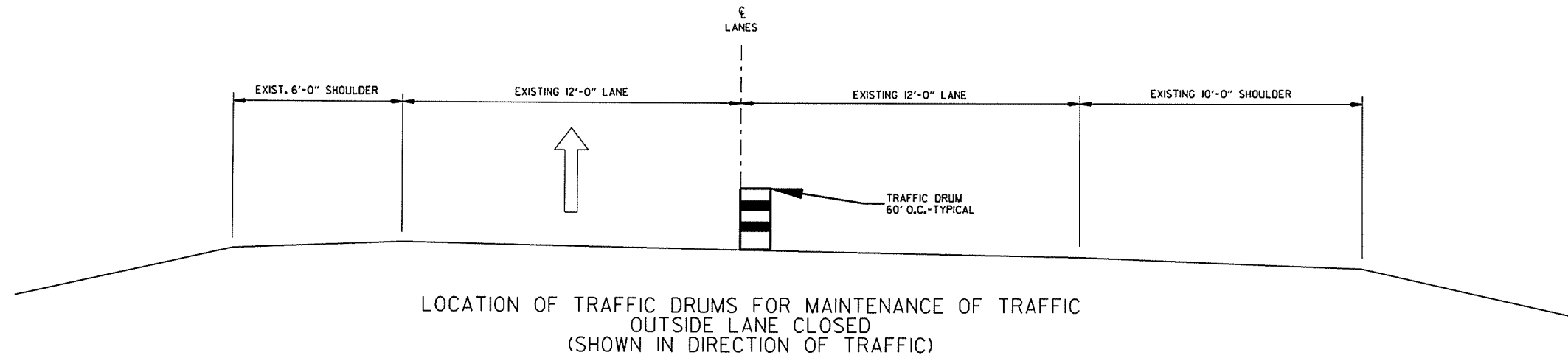
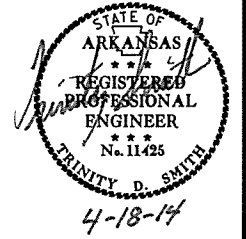
SPECIAL DETAILS

1/16/2014

RB0805.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.	BB0104		10	88

② SPECIAL DETAILS



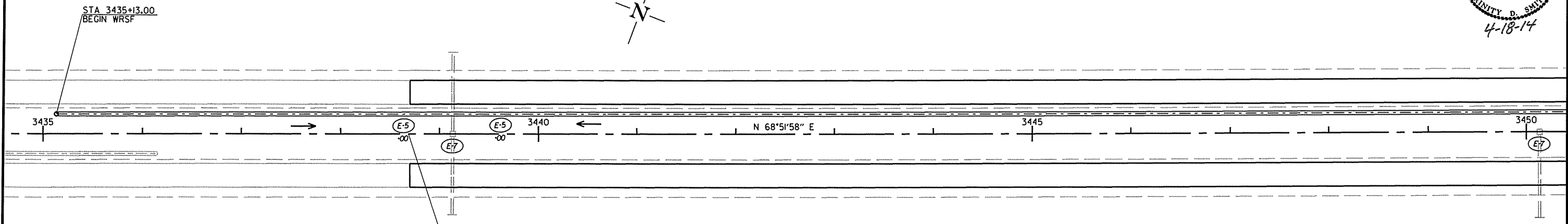
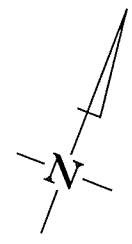
1/16/2014

RBB0805.DCN

SPECIAL DETAILS

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.	BB0104		11	88

② TEMPORARY EROSION CONTROL DETAILS



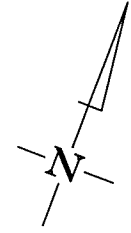
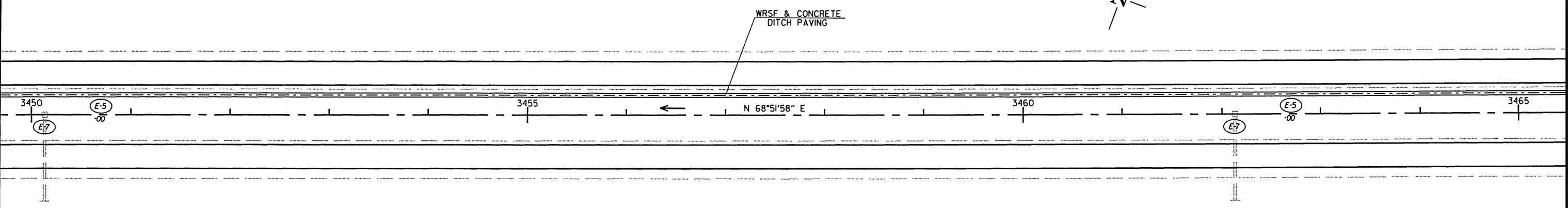
LEGEND

E-5	SAND BAG DITCH CHECKS
E-7	DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION

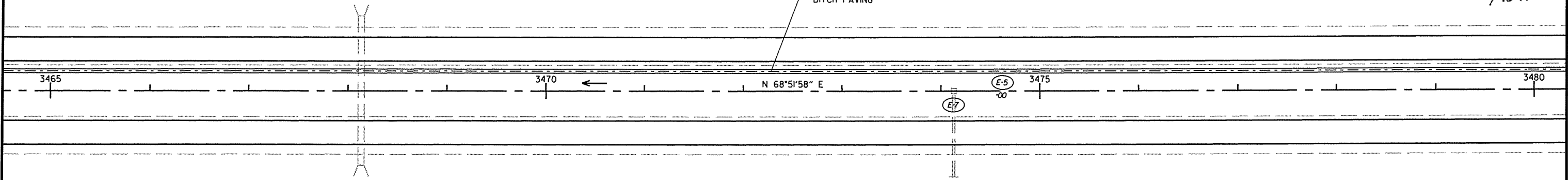
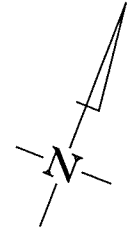
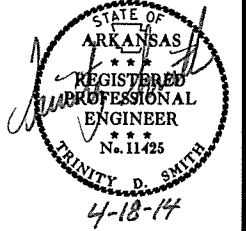


4/16/2014

RB0104.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.	BB0104		12	88

② TEMPORARY EROSION CONTROL DETAILS



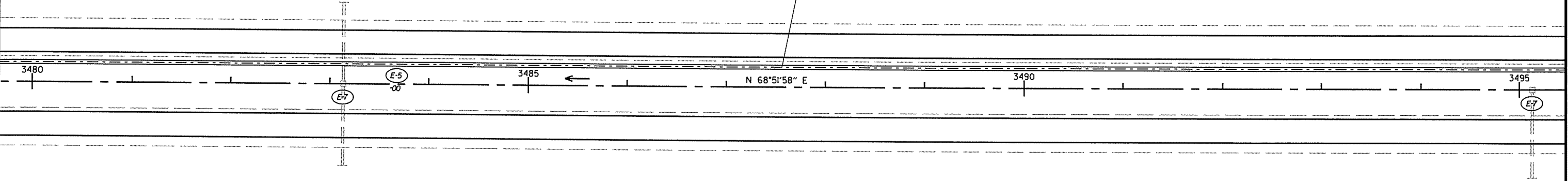
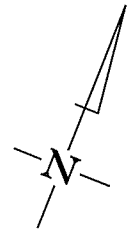
REVISIONS

LEGEND

- (E-5) SAND BAG DITCH CHECKS
- (E-7) DROP INLET SILT FENCE

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

DATE OF REVISION	REVISION

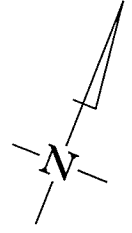
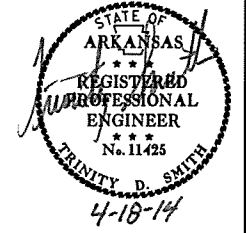


4/16/2014

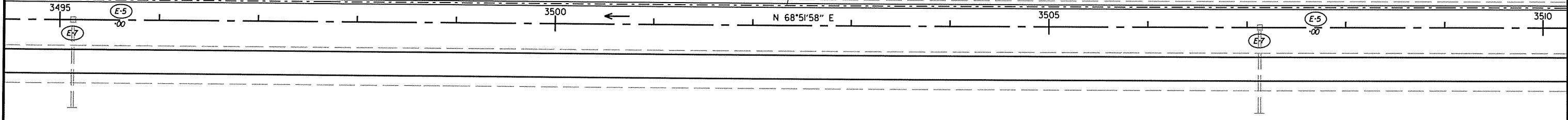
RB0104.DCN

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.	BB0104		13	88

② TEMPORARY EROSION CONTROL DETAILS





WRSF & CONCRETE
DITCH PAVING



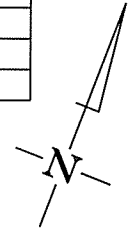
REVISIONS

DATE OF REVISION	REVISION

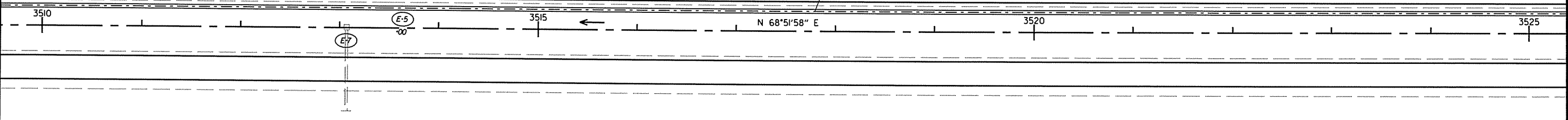
LEGEND

-  SAND BAG DITCH CHECKS
-  DROP INLET SILT FENCE

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



WRSF & CONCRETE
DITCH PAVING

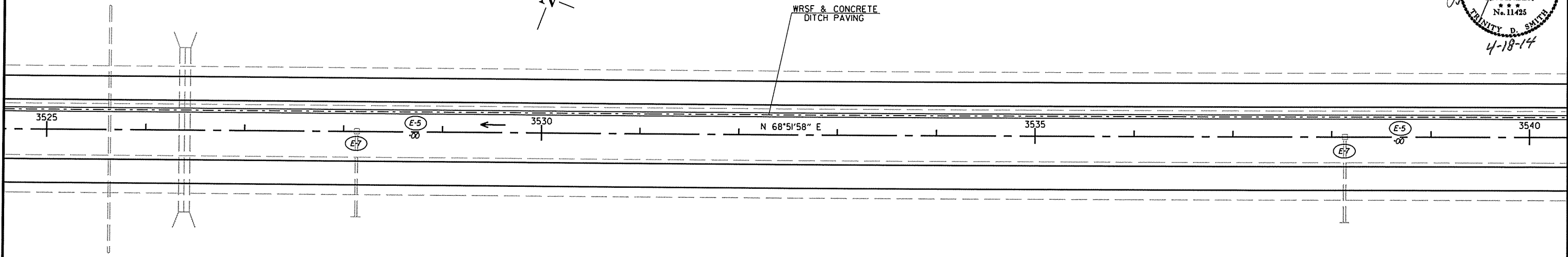
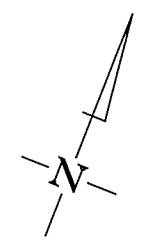
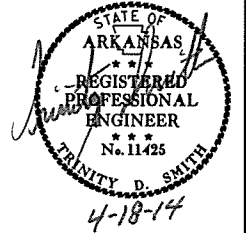


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RB0104.DGN

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.	BB0104		14	88

② TEMPORARY EROSION CONTROL DETAILS



LEGEND

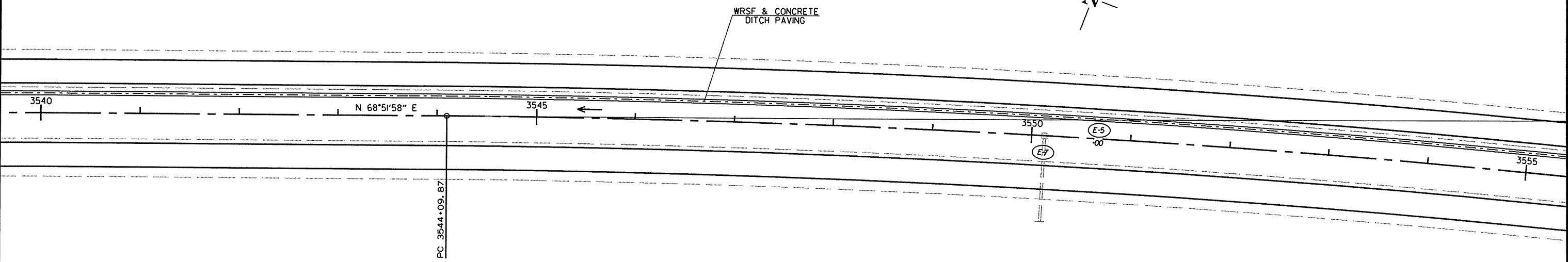
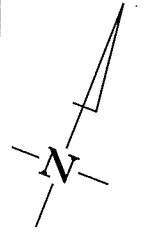
(E-5) SAND BAG DITCH CHECKS

(E-7) DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION



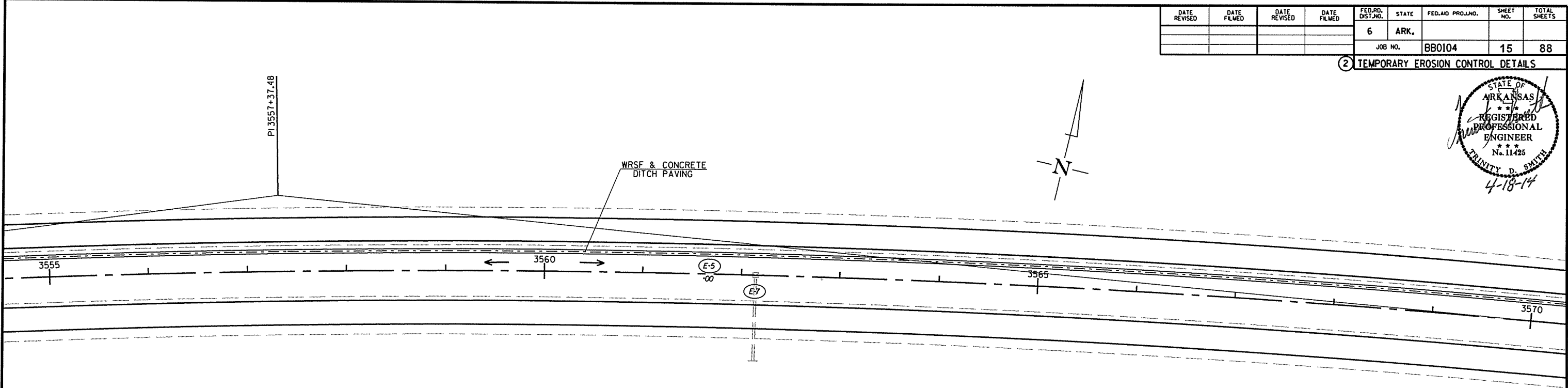
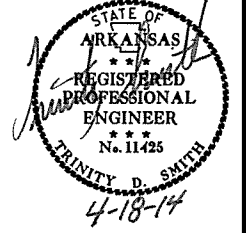
4/16/2014

RB0104.DGN

TEMPORARY EROSION CONTROL DETAILS

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.	BB0104		15	88

② TEMPORARY EROSION CONTROL DETAILS



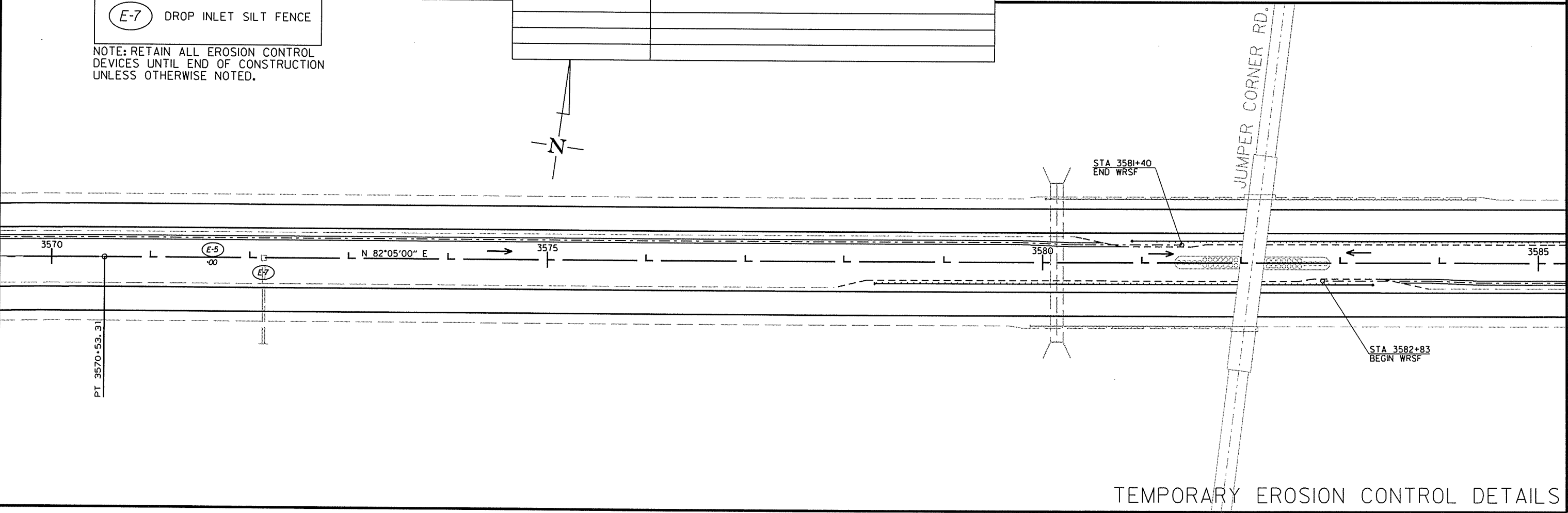
REVISIONS

DATE OF REVISION	REVISION

LEGEND

- E-5 SAND BAG DITCH CHECKS
- E-7 DROP INLET SILT FENCE

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



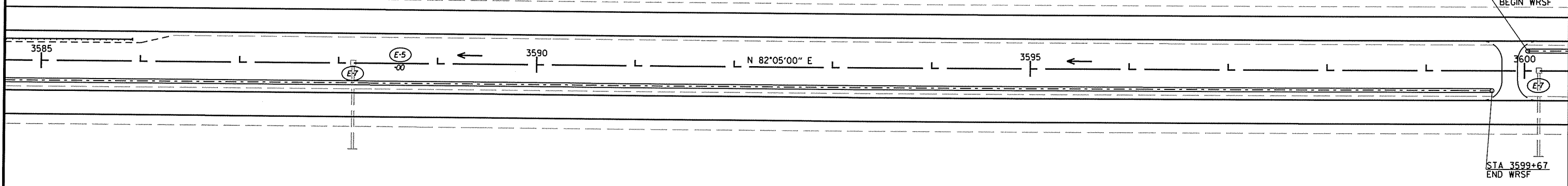
TEMPORARY EROSION CONTROL DETAILS

4/16/2014

RBB0104.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.						BB0104	16	88

② TEMPORARY EROSION CONTROL DETAILS



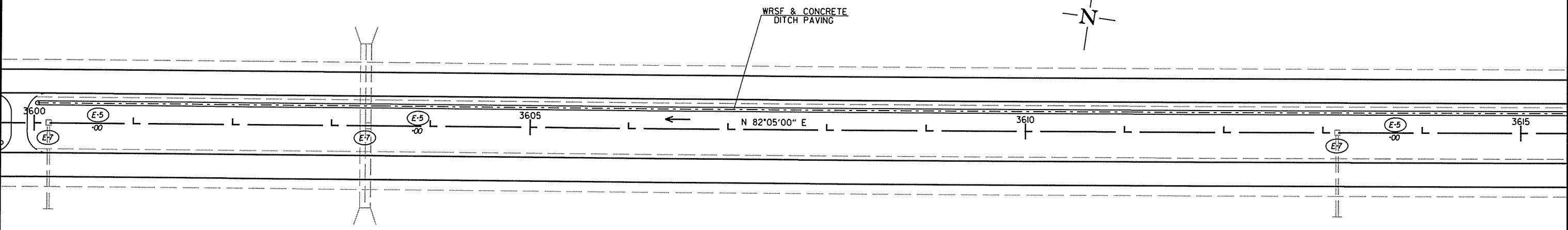
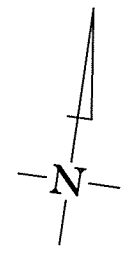
LEGEND

- E-5 SAND BAG DITCH CHECKS
- E-7 DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION



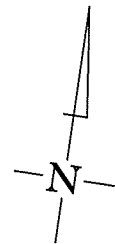
4/16/2014

RB0104.DGN

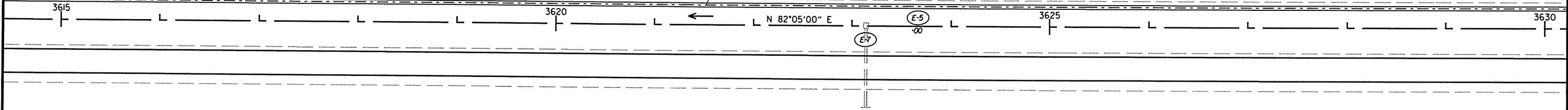
TEMPORARY EROSION CONTROL DETAILS

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.							BB0104	17	88

② TEMPORARY EROSION CONTROL DETAILS



WRSF & CONCRETE
DITCH PAVING



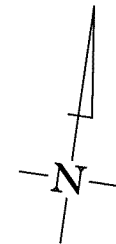
LEGEND

- SAND BAG DITCH CHECKS
- DROP INLET SILT FENCE

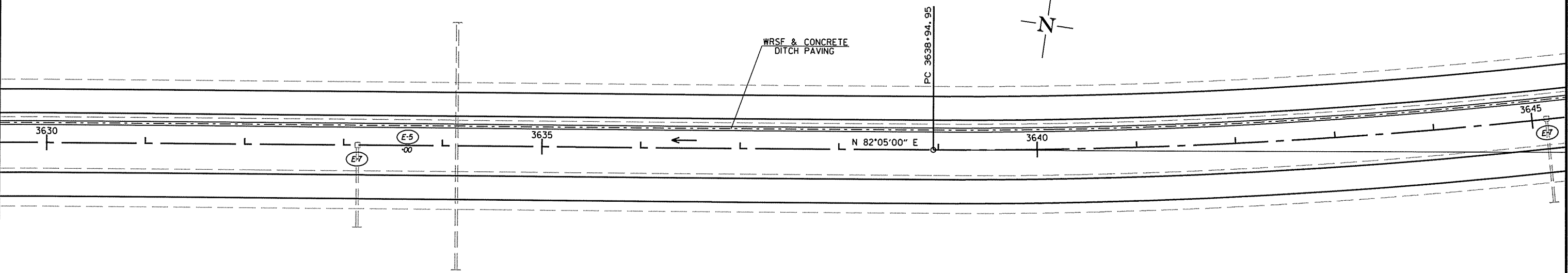
NOTE: RETAIN ALL EROSION CONTROL DEVICES UNTIL END OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS

DATE OF REVISION	REVISION



WRSF & CONCRETE
DITCH PAVING

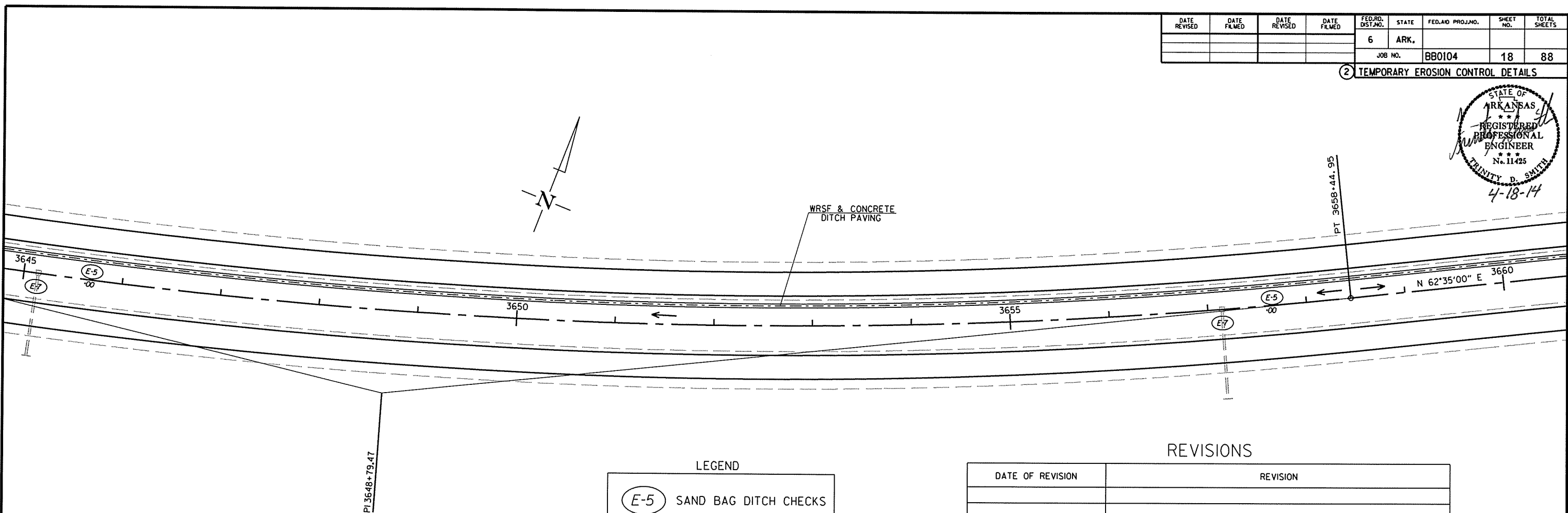
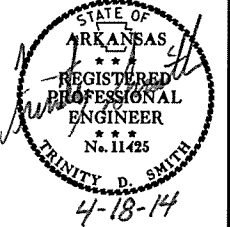


4/16/2014

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO.						BB0104	18	88

2 TEMPORARY EROSION CONTROL DETAILS



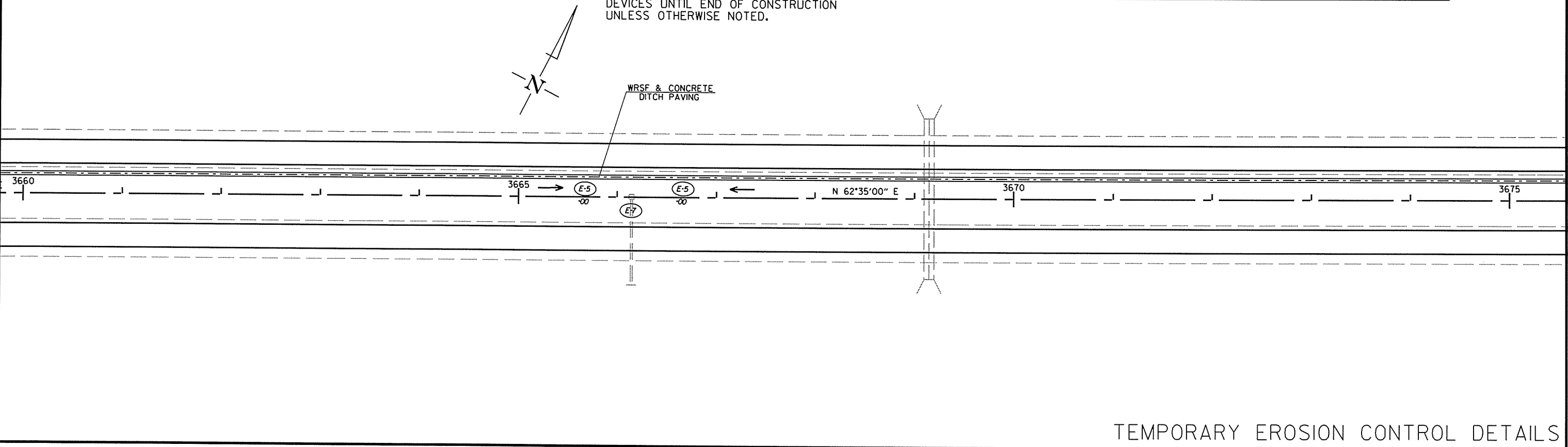
LEGEND

(E-5)	SAND BAG DITCH CHECKS
(E-7)	DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION

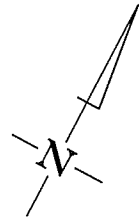
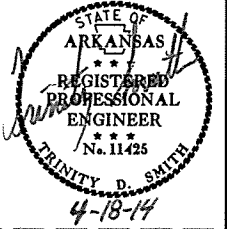


4/16/2014

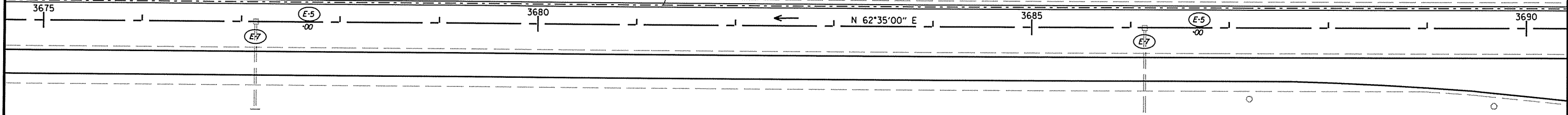
RB0104.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
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JOB NO.							BB0104	19	88

② TEMPORARY EROSION CONTROL DETAILS



WRSF & CONCRETE
DITCH PAVING



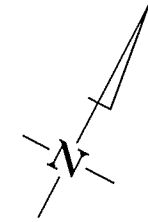
REVISIONS

DATE OF REVISION	REVISION

LEGEND

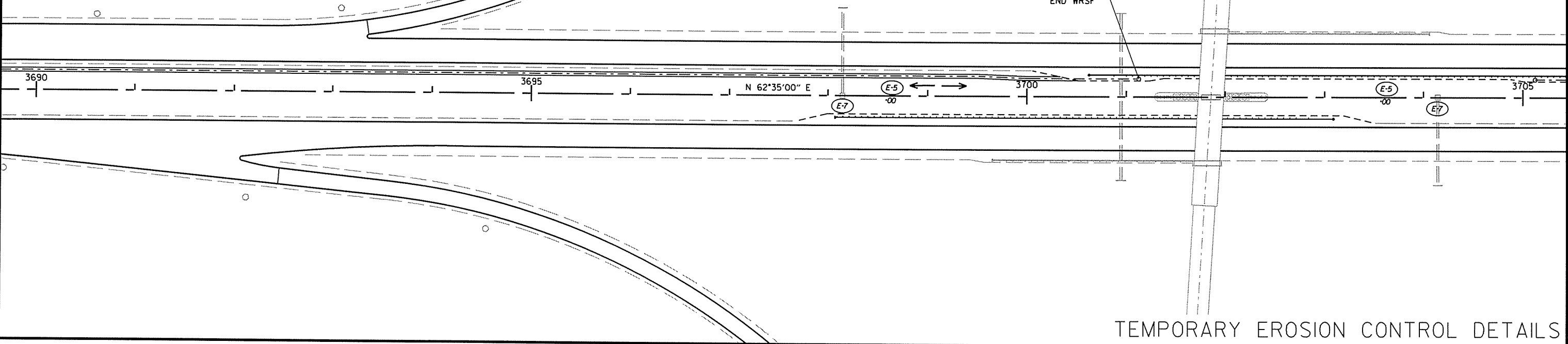
- SAND BAG DITCH CHECKS
- DROP INLET SILT FENCE

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



N. MAIN ST.

STA 3701+13
END WRSF



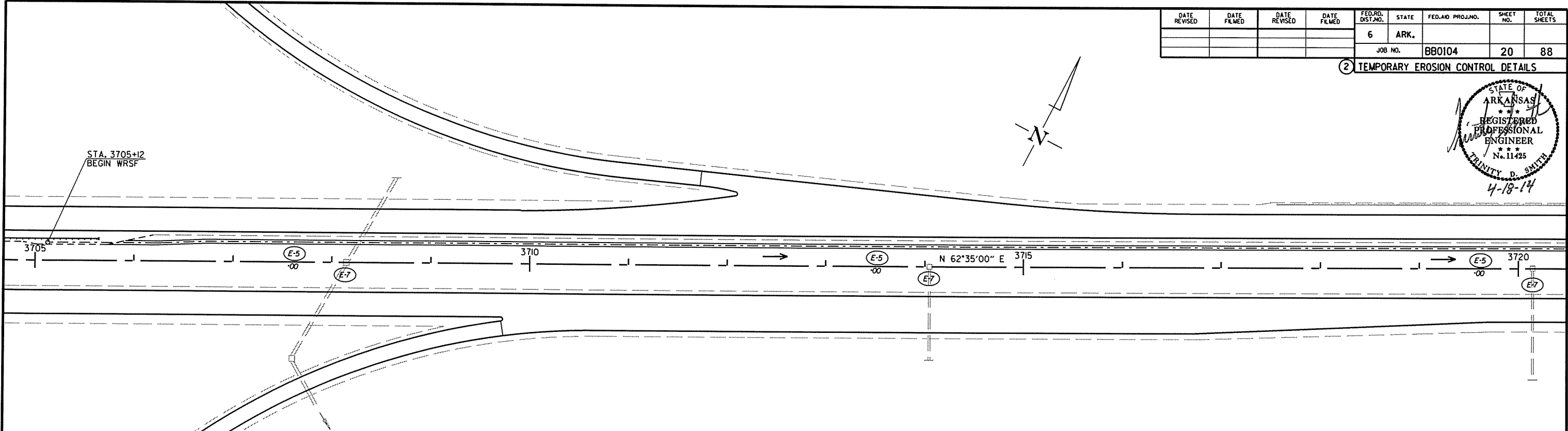
TEMPORARY EROSION CONTROL DETAILS

4/16/2014

RB0104.DCN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		20	88
				JOB NO.		BB0104		

2 TEMPORARY EROSION CONTROL DETAILS



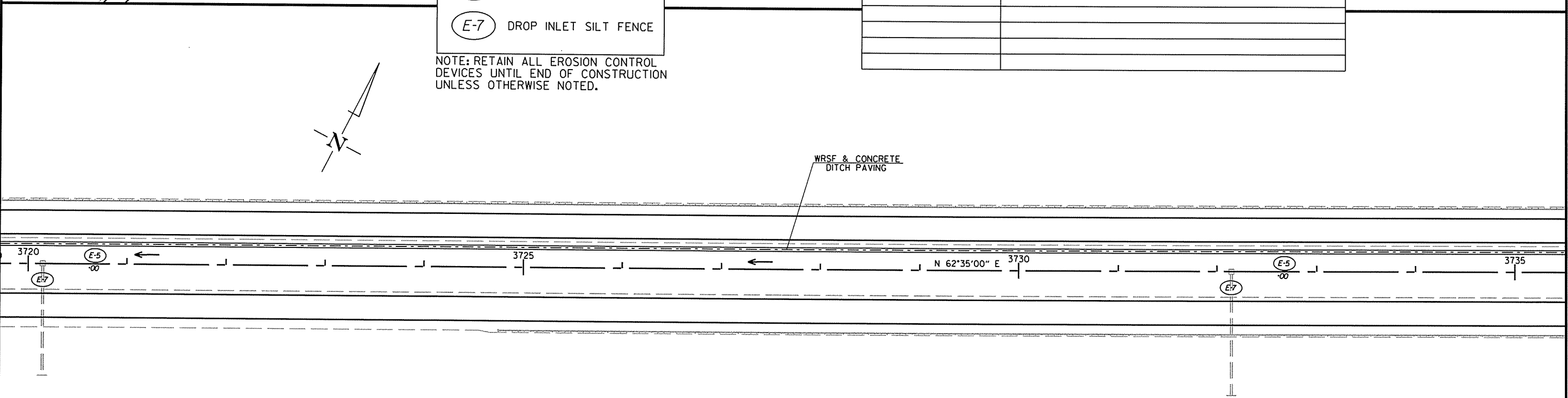
LEGEND

- (E-5) SAND BAG DITCH CHECKS
- (E-7) DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION

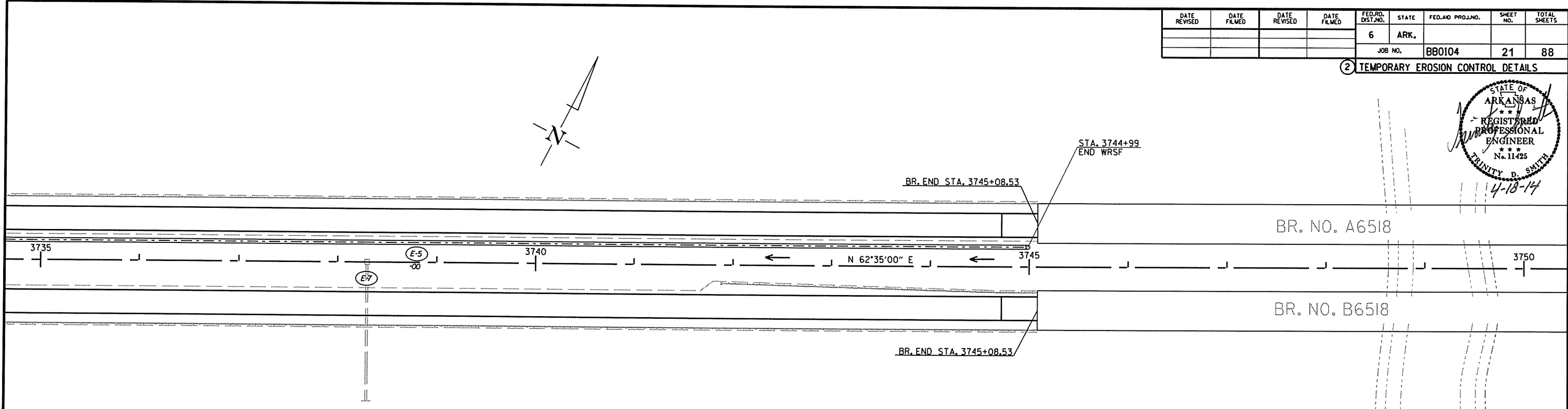


4/16/2014

RB0104.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.	BB0104	21
								88

② TEMPORARY EROSION CONTROL DETAILS



LEGEND

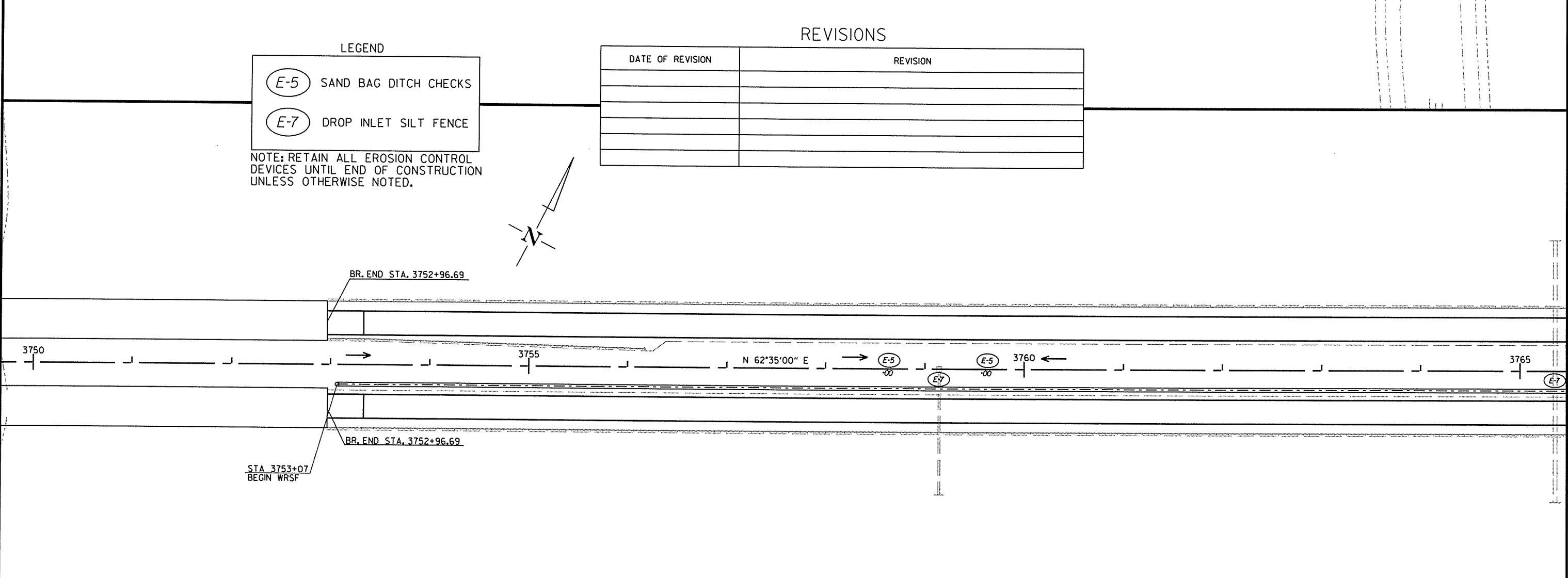
(E-5) SAND BAG DITCH CHECKS

(E-7) DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION



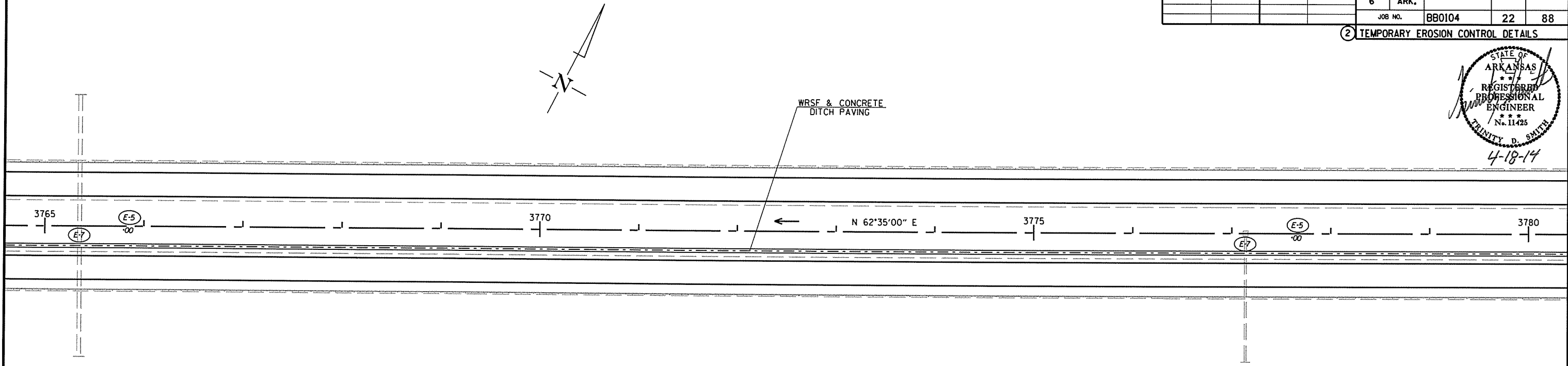
4/16/2014

RB0104.DCN

TEMPORARY EROSION CONTROL DETAILS

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.						BB0104	22	88

② TEMPORARY EROSION CONTROL DETAILS



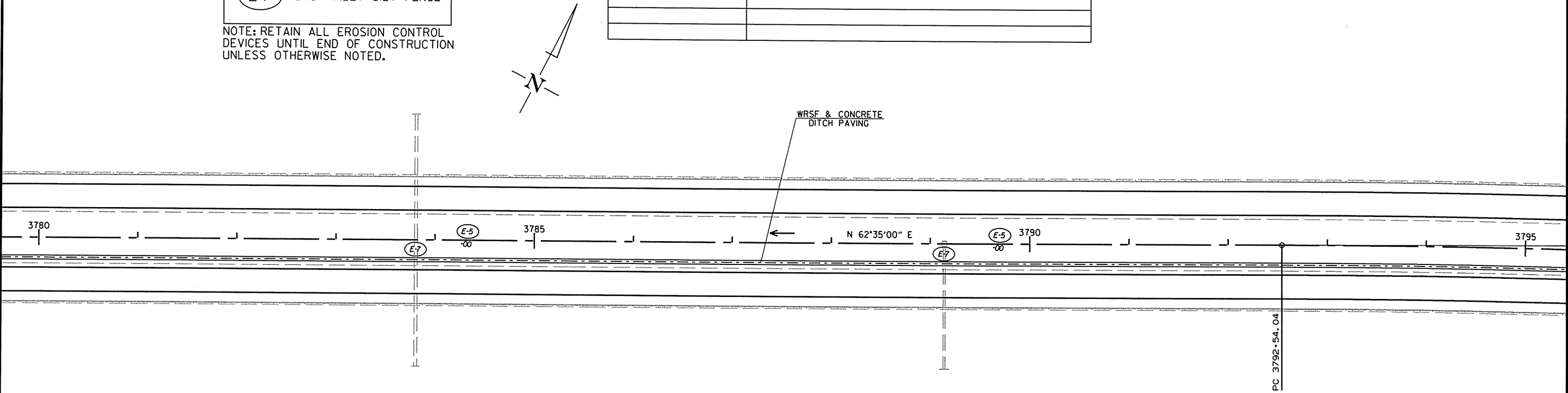
REVISIONS

DATE OF REVISION	REVISION

LEGEND

- SAND BAG DITCH CHECKS
- DROP INLET SILT FENCE

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

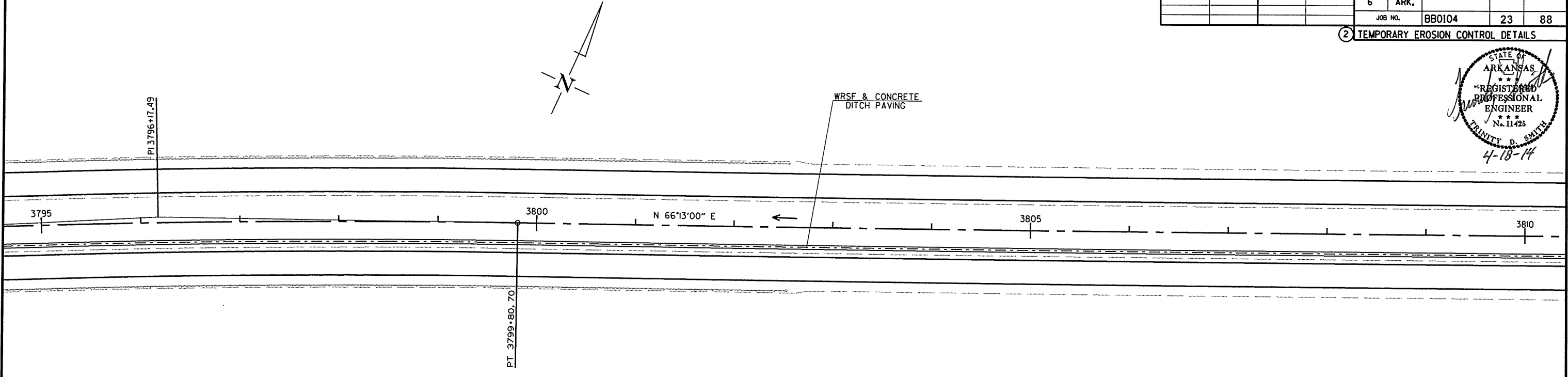
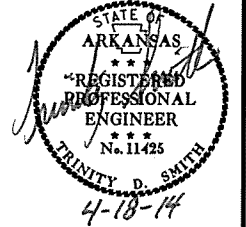


4/16/2014

RB0104.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. BB0104							23	88

2 TEMPORARY EROSION CONTROL DETAILS



LEGEND

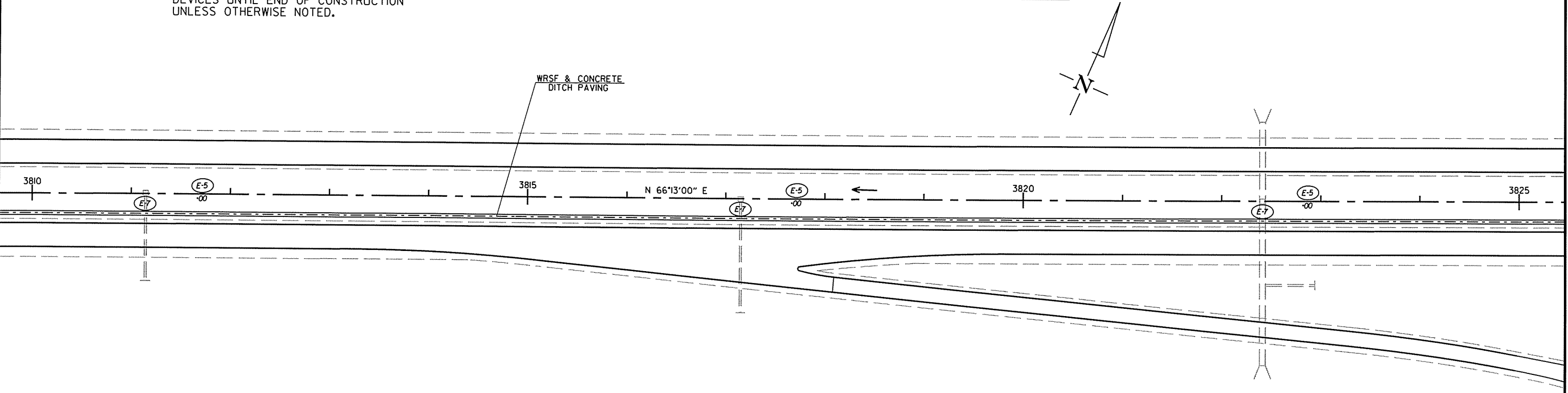
(E-5) SAND BAG DITCH CHECKS

(E-7) DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION



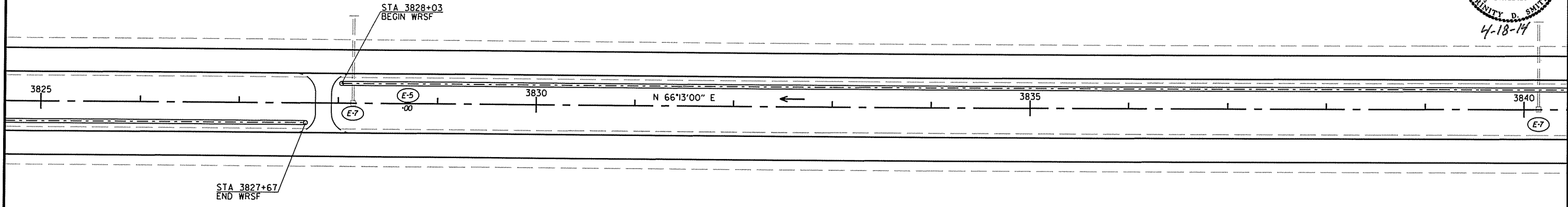
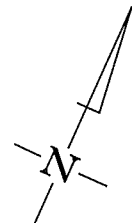
4/16/2014

RB0104.DGN

TEMPORARY EROSION CONTROL DETAILS

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.						BB0104	24	88

② TEMPORARY EROSION CONTROL DETAILS



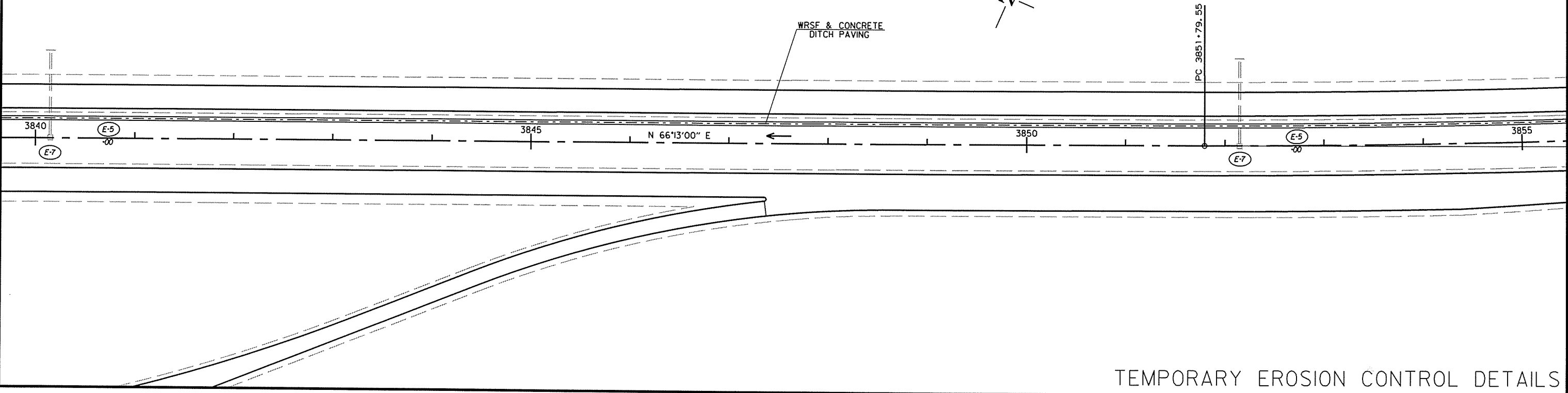
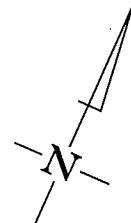
LEGEND

- E-5 SAND BAG DITCH CHECKS
- E-7 DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION



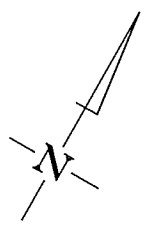
4/16/2014

RB0104.DGN

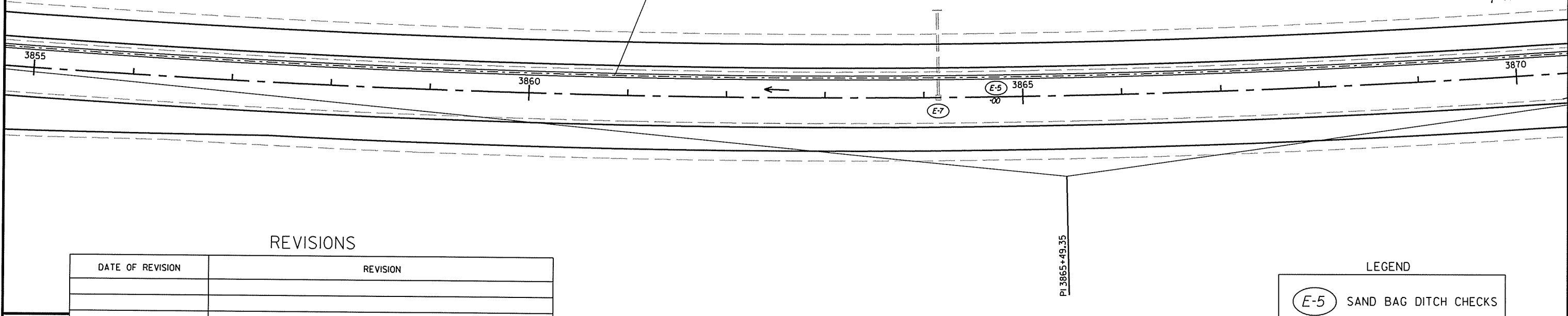
TEMPORARY EROSION CONTROL DETAILS

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.						BB0104	25	88

② TEMPORARY EROSION CONTROL DETAILS





WRSF & CONCRETE
DITCH PAVING



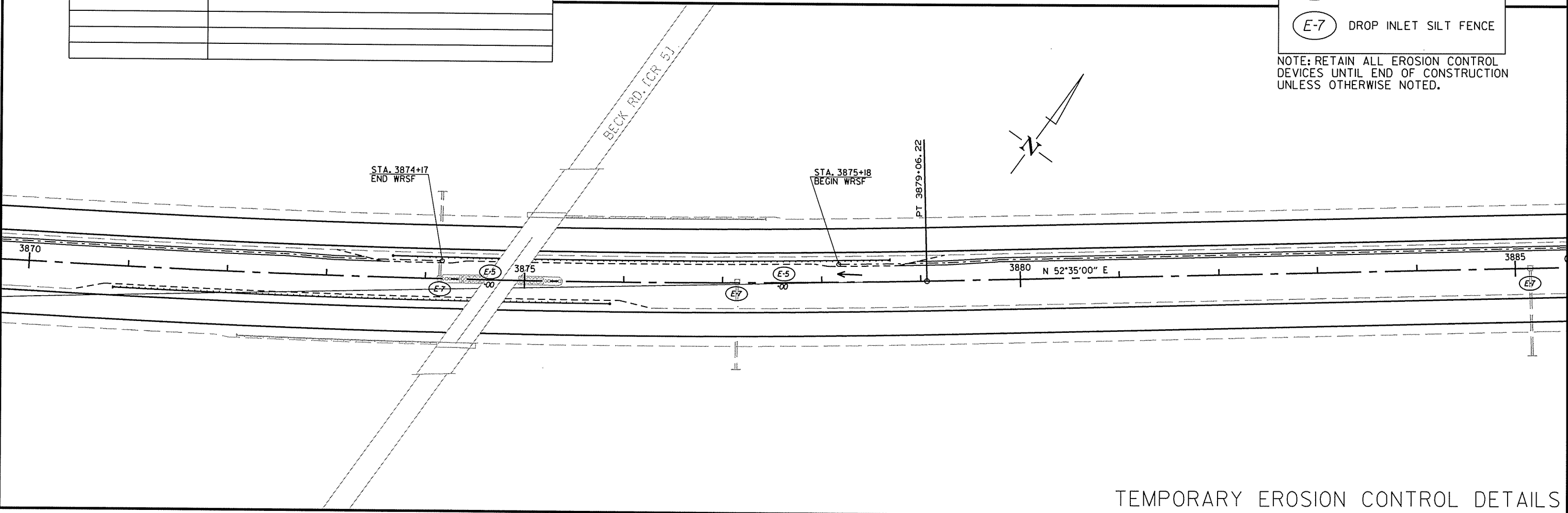
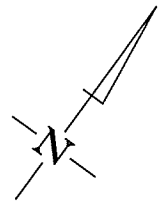
REVISIONS

DATE OF REVISION	REVISION

LEGEND

-  SAND BAG DITCH CHECKS
-  DROP INLET SILT FENCE

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



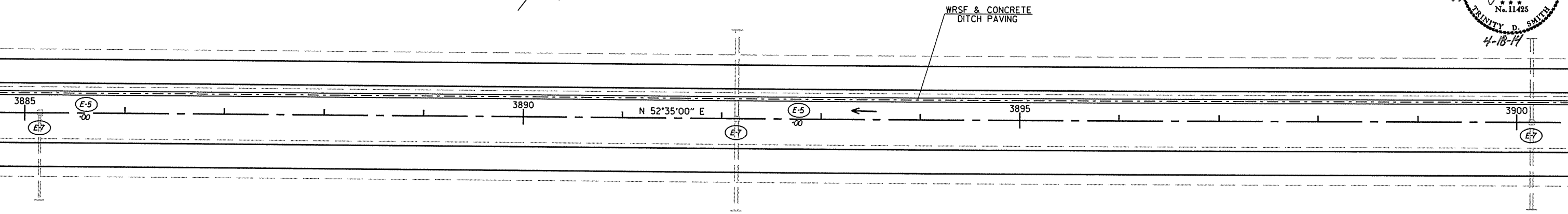
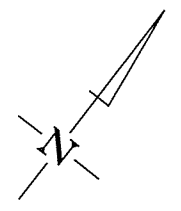
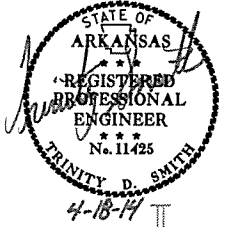
4/16/2014

RBB0104.DGN



TEMPORARY EROSION CONTROL DETAILS

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. BB0104	26	88

② TEMPORARY EROSION CONTROL DETAILS



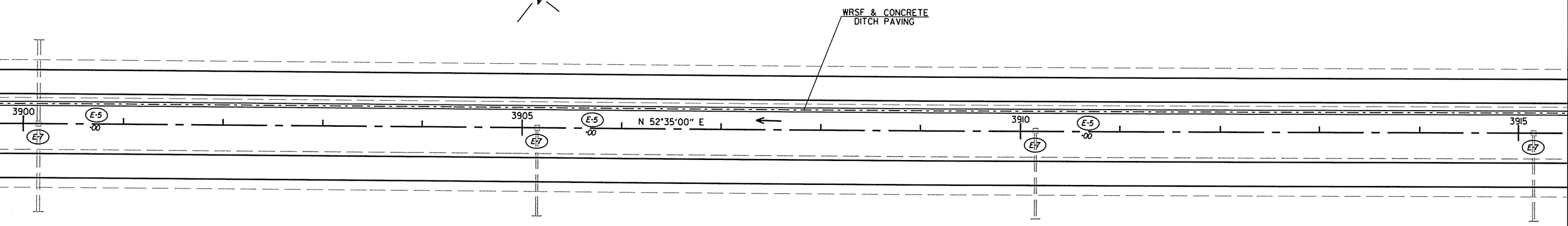
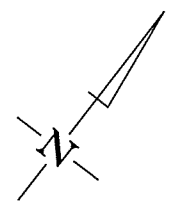
LEGEND

-  SAND BAG DITCH CHECKS
-  DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION

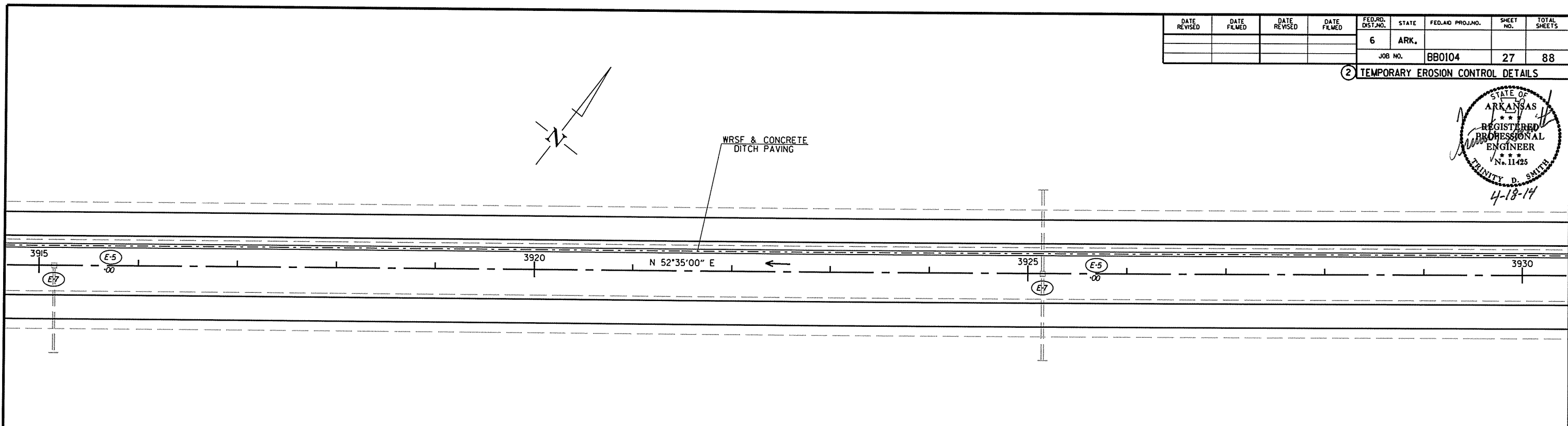


4/16/2014

RB0104.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.						BB0104	27	88

② TEMPORARY EROSION CONTROL DETAILS



LEGEND

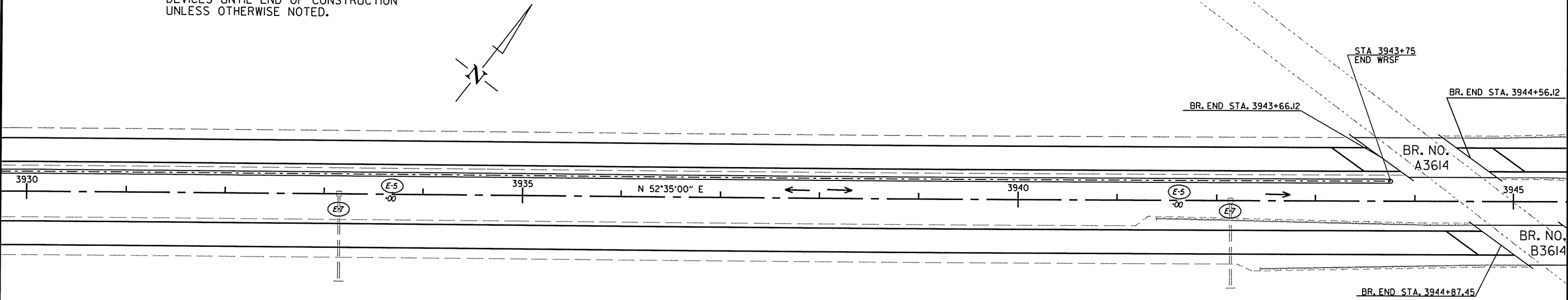
(E-5) SAND BAG DITCH CHECKS

(E-7) DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION



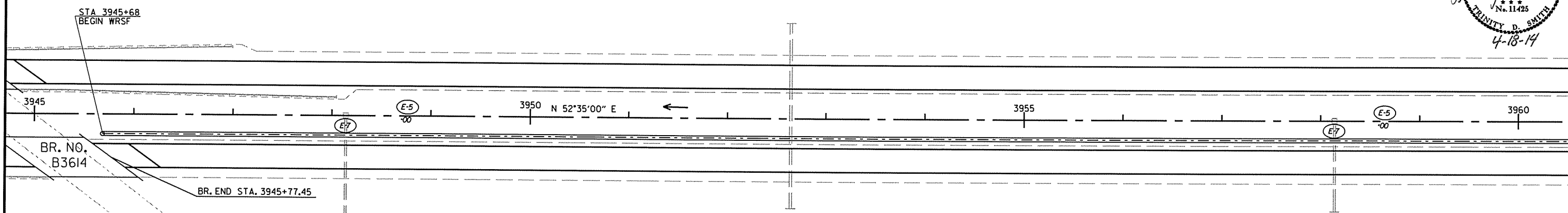
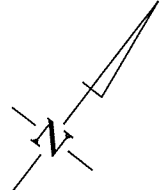
4/16/2014

RB0104.DGN

TEMPORARY EROSION CONTROL DETAILS

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. BB0104	28	88

② TEMPORARY EROSION CONTROL DETAILS



STA 3945+68
BEGIN WRSF

3945

BR. NO.
B3614

BR. END STA. 3945+77.45

SPRING CREEK DITCH

LEGEND

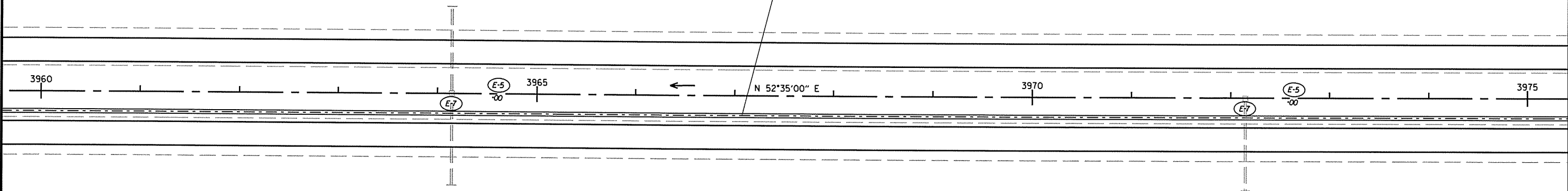
- (E-5) SAND BAG DITCH CHECKS
- (E-7) DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION

WRSF & CONCRETE
DITCH PAVING



3960

3965

3970

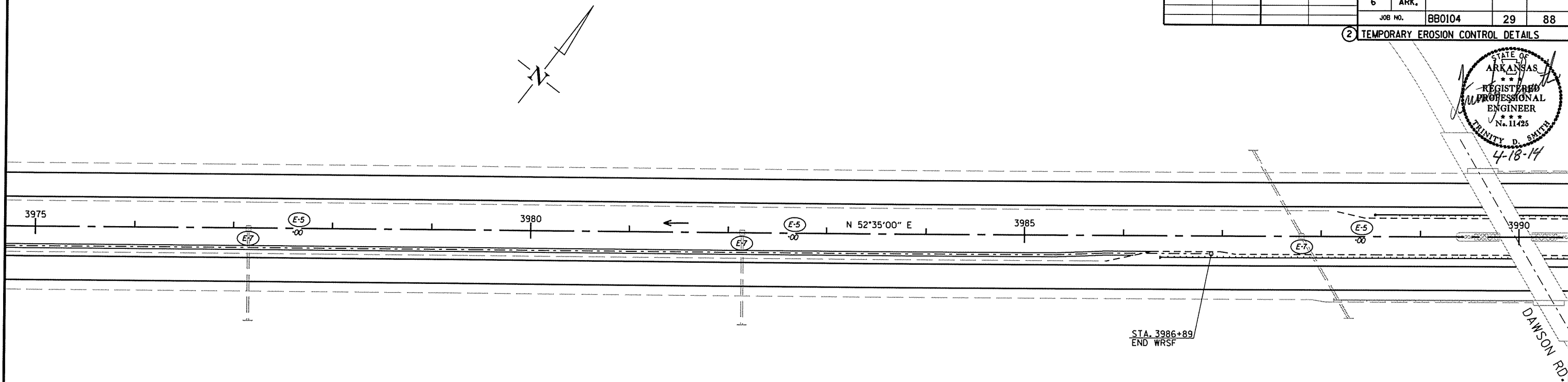
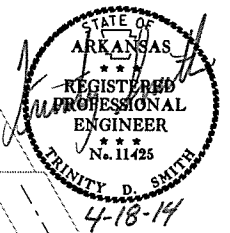
3975

4/16/2014

R880104.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		29	88
						JOB NO. BB0104		

② TEMPORARY EROSION CONTROL DETAILS



LEGEND

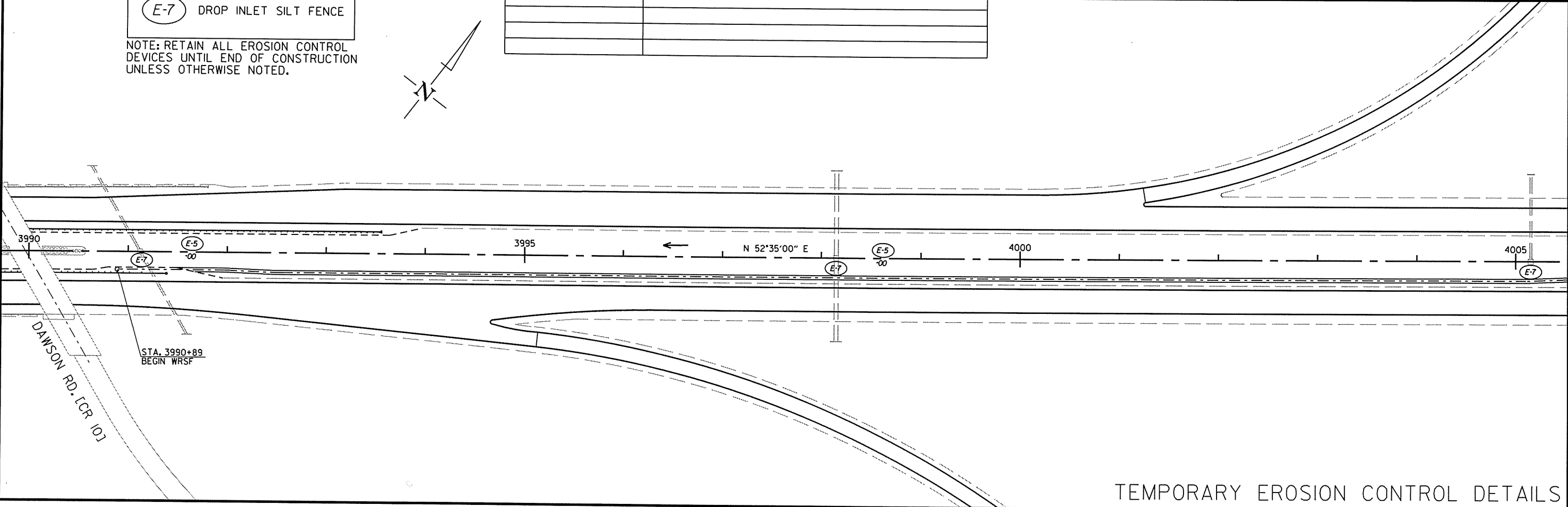
(E-5) SAND BAG DITCH CHECKS

(E-7) DROP INLET SILT FENCE

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

REVISIONS

DATE OF REVISION	REVISION

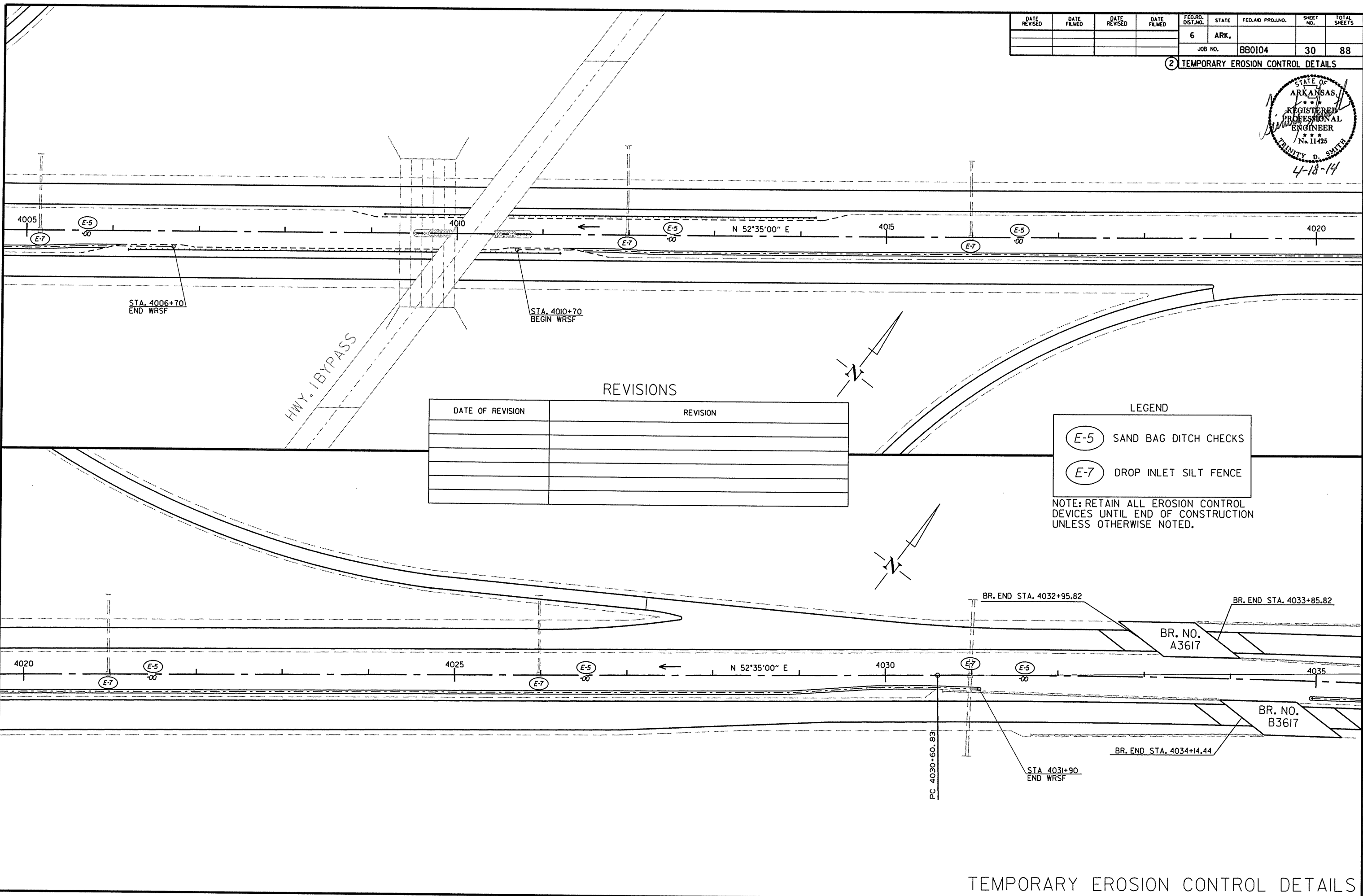
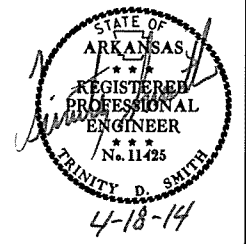


TEMPORARY EROSION CONTROL DETAILS

4/16/2014
RB0104.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.						BB0104	30	88

② TEMPORARY EROSION CONTROL DETAILS



STA. 4006+70
END WRSF

STA. 4010+70
BEGIN WRSF

HWY. BYPASS

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) SAND BAG DITCH CHECKS
- (E-7) DROP INLET SILT FENCE

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

BR. END STA. 4032+95.82

BR. END STA. 4033+85.82

BR. NO. A3617

BR. NO. B3617

BR. END STA. 4034+14.44

STA. 4031+90
END WRSF

PC 4030+60.83

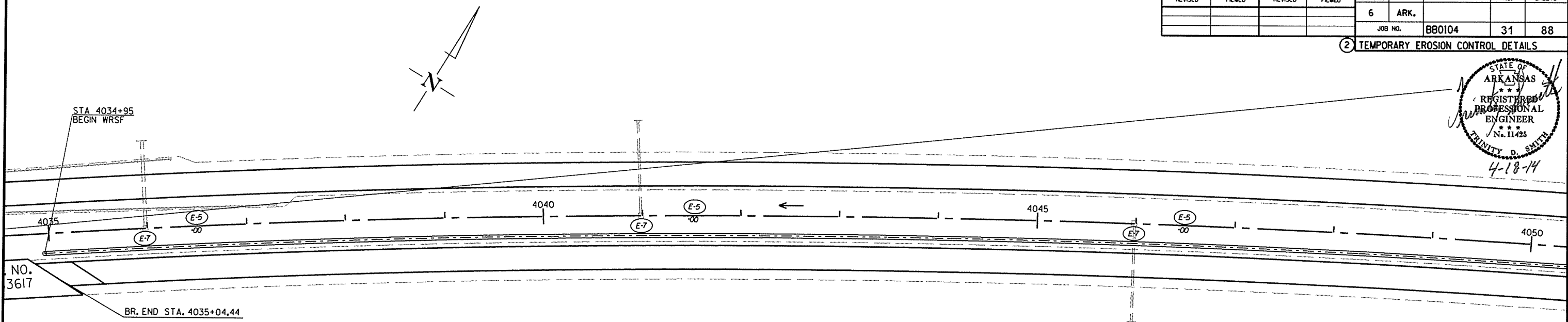
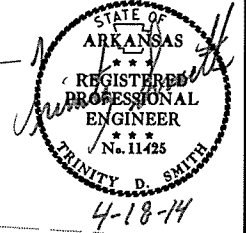
4/16/2014

RB0104.DGN

TEMPORARY EROSION CONTROL DETAILS

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. BB0104							31	88



② TEMPORARY EROSION CONTROL DETAILS



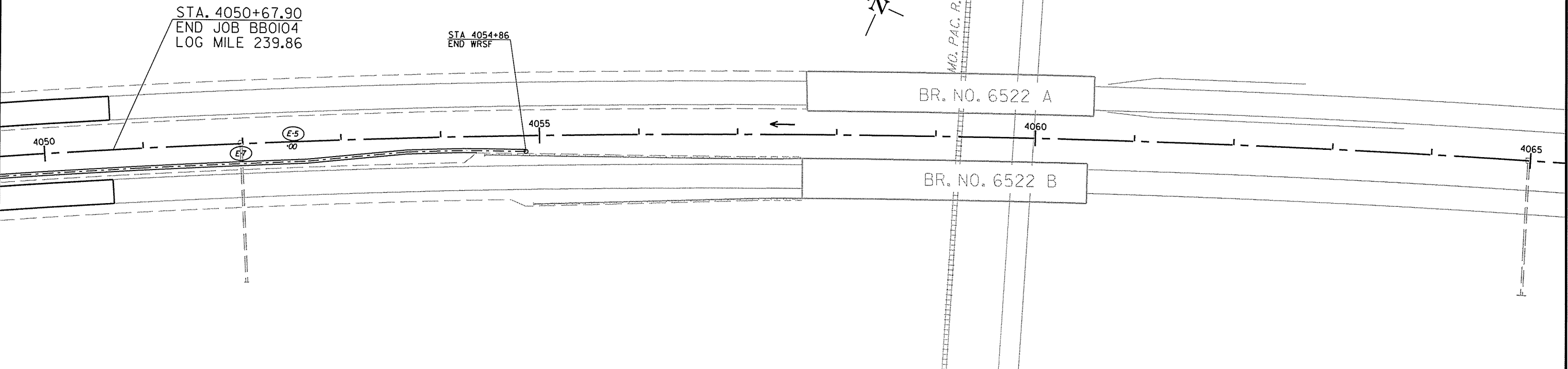
REVISIONS

DATE OF REVISION	REVISION

LEGEND

-  SAND BAG DITCH CHECKS
-  DROP INLET SILT FENCE

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



TEMPORARY EROSION CONTROL DETAILS

4/16/2014

RB0104.DGN

CONSTRUCTION PAVEMENT MARKINGS:
 APPLY CONSTRUCTION PAVEMENT MARKINGS
 ACCORDING TO STD. DWG. PM-2
 4" YELLOW - 125814 LIN. FT.
 4" (SKIP LINE) WHITE - 30350 LIN. FT.
 4" WHITE - 125245 LIN. FT.
 8" WHITE - 4415 LIN. FT.

REMOVABLE PAVEMENT MARKINGS
 YELLOW = 2580 LIN. FT.
 WHITE = 2580 LIN. FT.

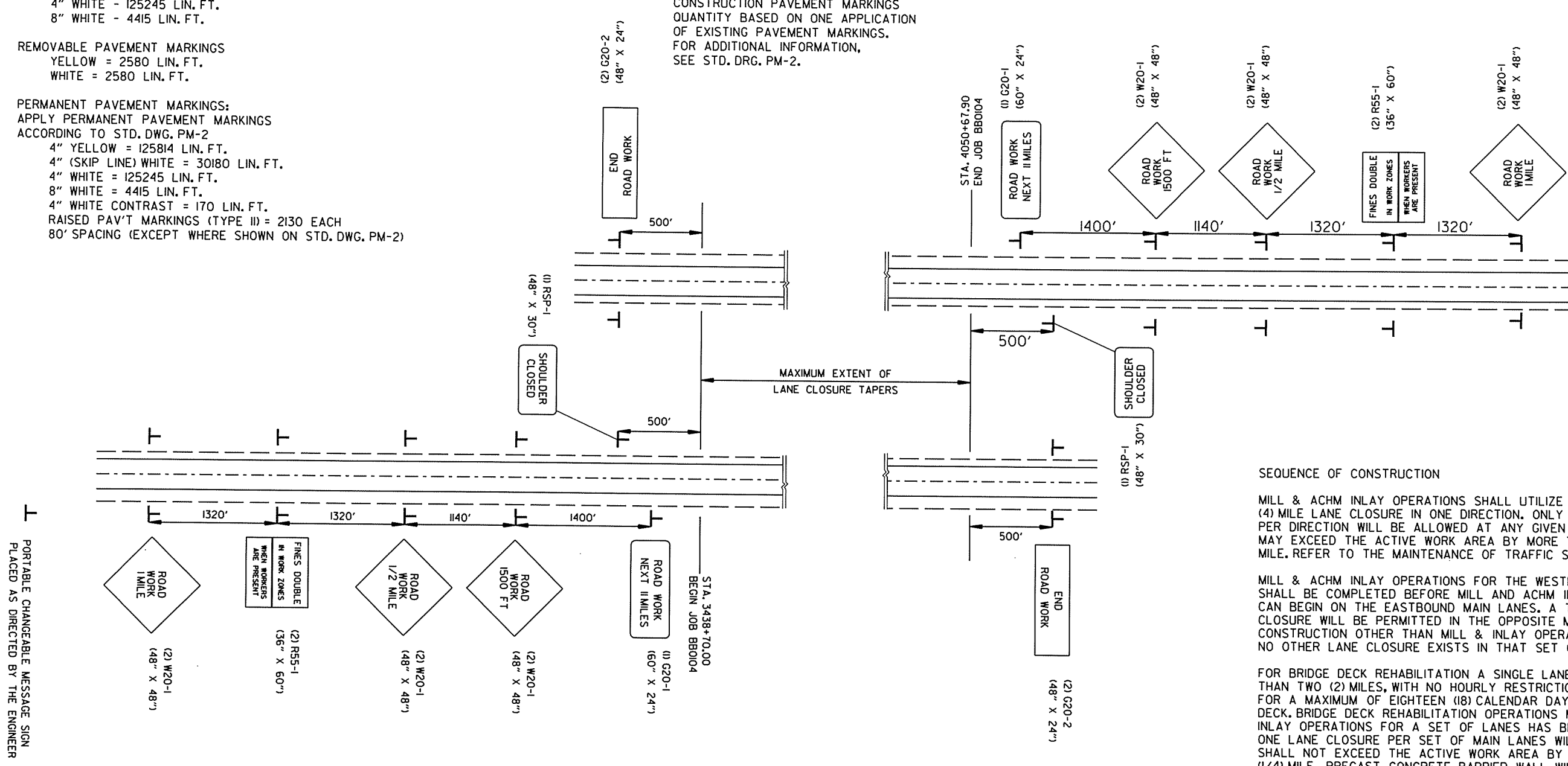
PERMANENT PAVEMENT MARKINGS:
 APPLY PERMANENT PAVEMENT MARKINGS
 ACCORDING TO STD. DWG. PM-2
 4" YELLOW = 125814 LIN. FT.
 4" (SKIP LINE) WHITE = 30180 LIN. FT.
 4" WHITE = 125245 LIN. FT.
 8" WHITE = 4415 LIN. FT.
 4" WHITE CONTRAST = 170 LIN. FT.
 RAISED PAV'T MARKINGS (TYPE II) = 2130 EACH
 80' SPACING (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.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-20-14				6	ARK.		32	88

② MAINTENANCE OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGN
 PLACED AS DIRECTED BY THE ENGINEER



SEQUENCE OF CONSTRUCTION

MILL & ACHM 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 & ACHM INLAY OPERATIONS FOR THE WESTBOUND MAIN LANES SHALL BE COMPLETED BEFORE MILL AND ACHM 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.

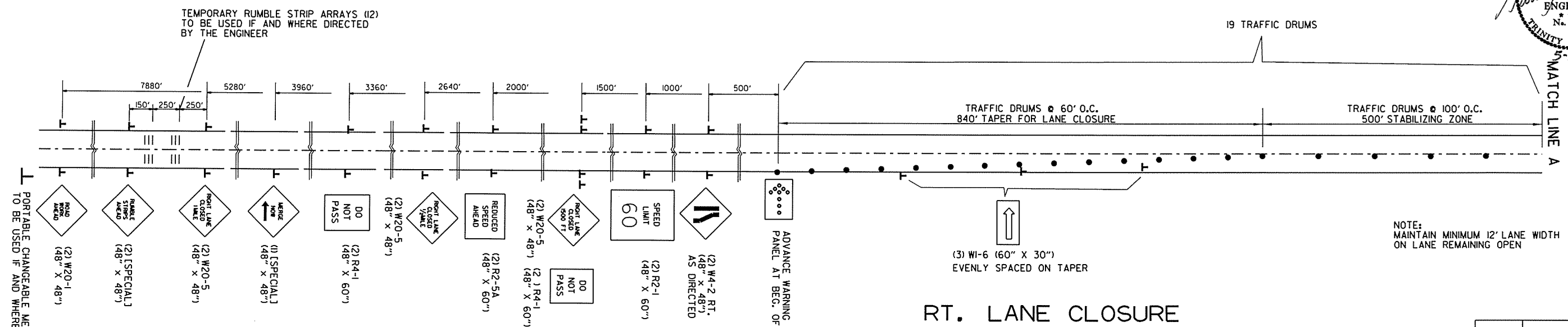
FOR BRIDGE DECK REHABILITATION A SINGLE LANE CLOSURE OF NO MORE THAN TWO (2) MILES, WITH NO HOURLY RESTRICTIONS, WILL BE PERMITTED FOR A MAXIMUM OF EIGHTEEN (18) CALENDAR DAYS TO COMPLETE EACH BRIDGE DECK. BRIDGE DECK REHABILITATION OPERATIONS MAY BEGIN WHEN MILL & INLAY OPERATIONS FOR A SET OF LANES 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
5-9-14				6	ARK.			
						JOB NO. BB0104	33	88

2 MAINTENANCE OF TRAFFIC



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

TEMPORARY RUMBLE STRIP ARRAYS (12) TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

19 TRAFFIC DRUMS

TRAFFIC DRUMS @ 60' O.C. 840' TAPER FOR LANE CLOSURE

TRAFFIC DRUMS @ 100' O.C. 500' STABILIZING ZONE

MATCH LINE A

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

RT. LANE CLOSURE

SPEED LIMIT	70
	TRUCKS 65

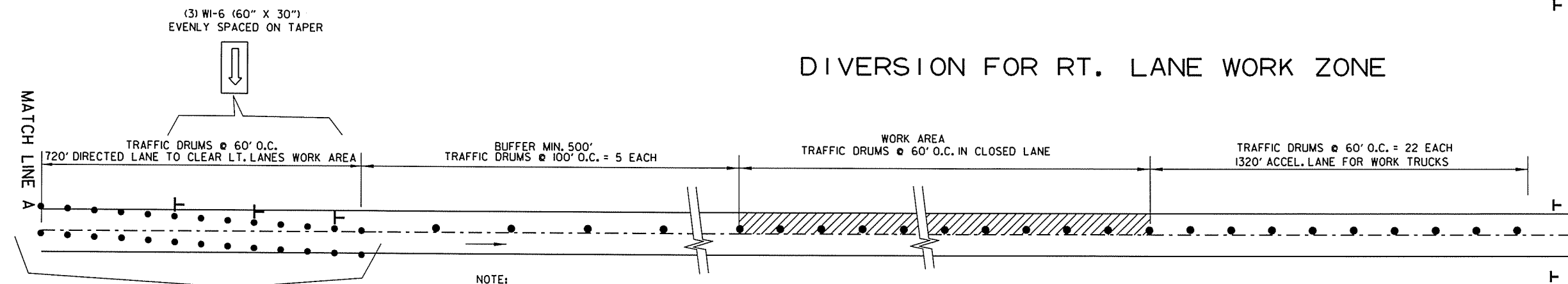
(2) R2-1 (48" X 60")
(2) R2-2 (48" X 48")

SPEED LIMIT SIGNS ARE ALSO PROVIDED FOR PLACEMENT PAST ENTRANCE RAMP WITHIN THE WORK ZONE.

MATCH LINE A



DIVERSION FOR RT. LANE WORK ZONE



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

DIVERSION FOR LT. LANE WORK ZONE

SPEED LIMIT	70
	TRUCKS 65

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

(3) W1-6 (60" X 30") EVENLY SPACED ON TAPER

TRAFFIC DRUMS @ 60' O.C. 720' DIRECTED LANE TO CLEAR LT. LANES WORK AREA

BUFFER MIN. 500' TRAFFIC DRUMS @ 100' O.C. = 5 EACH

WORK AREA TRAFFIC DRUMS @ 60' O.C. IN CLOSED LANE

TRAFFIC DRUMS @ 60' O.C. = 22 EACH 1320' ACCEL. LANE FOR WORK TRUCKS

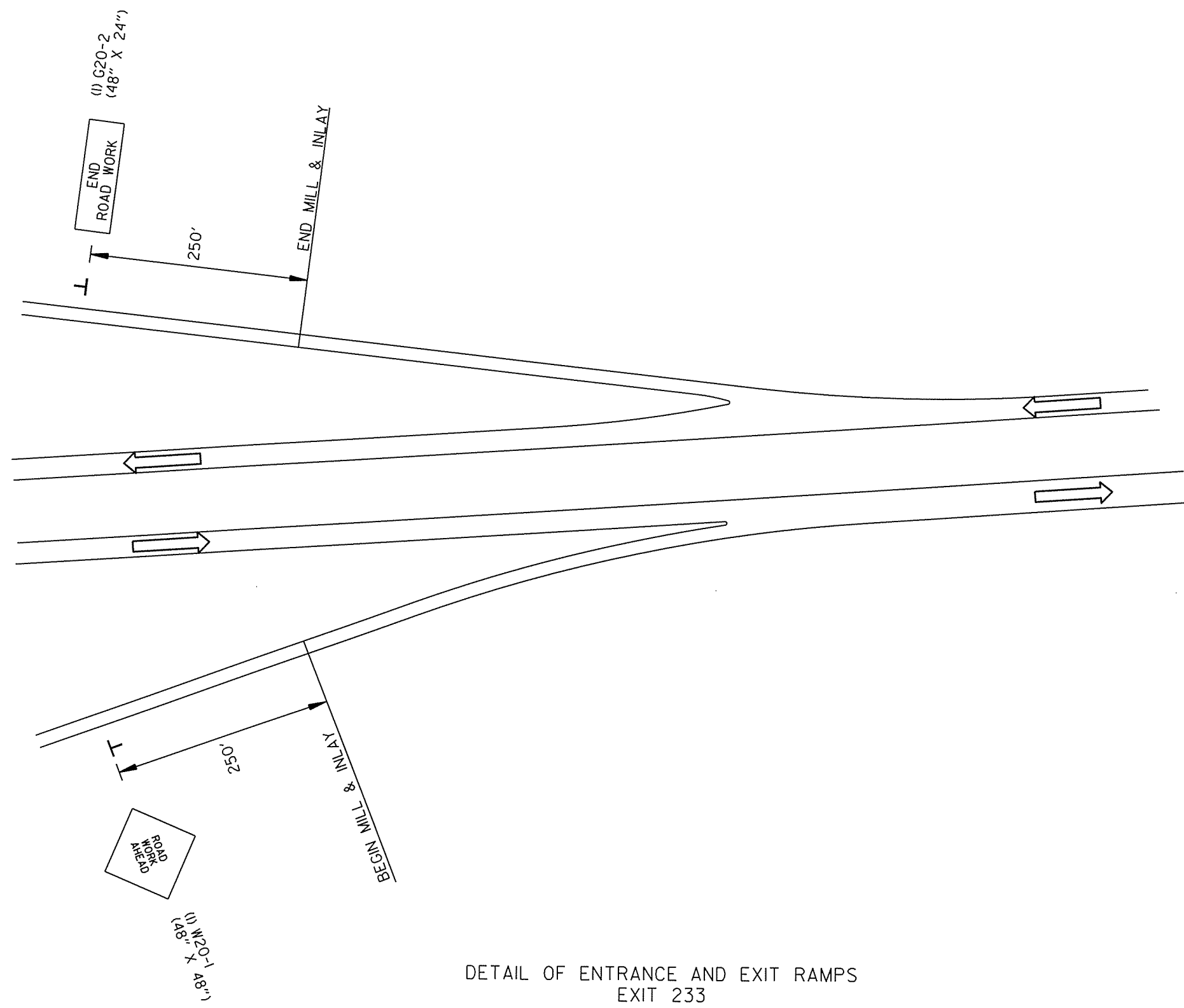
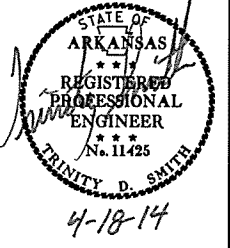
26 TRAFFIC DRUMS

MAINTENANCE OF TRAFFIC LANE CLOSURE

ADVANCE WARNING SIGNS FOR ENTRANCE AND EXIT RAMP
 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.	BB0104	34

② MAINTENANCE OF TRAFFIC



DETAIL OF ENTRANCE AND EXIT RAMP
 EXIT 233
 EXIT 239

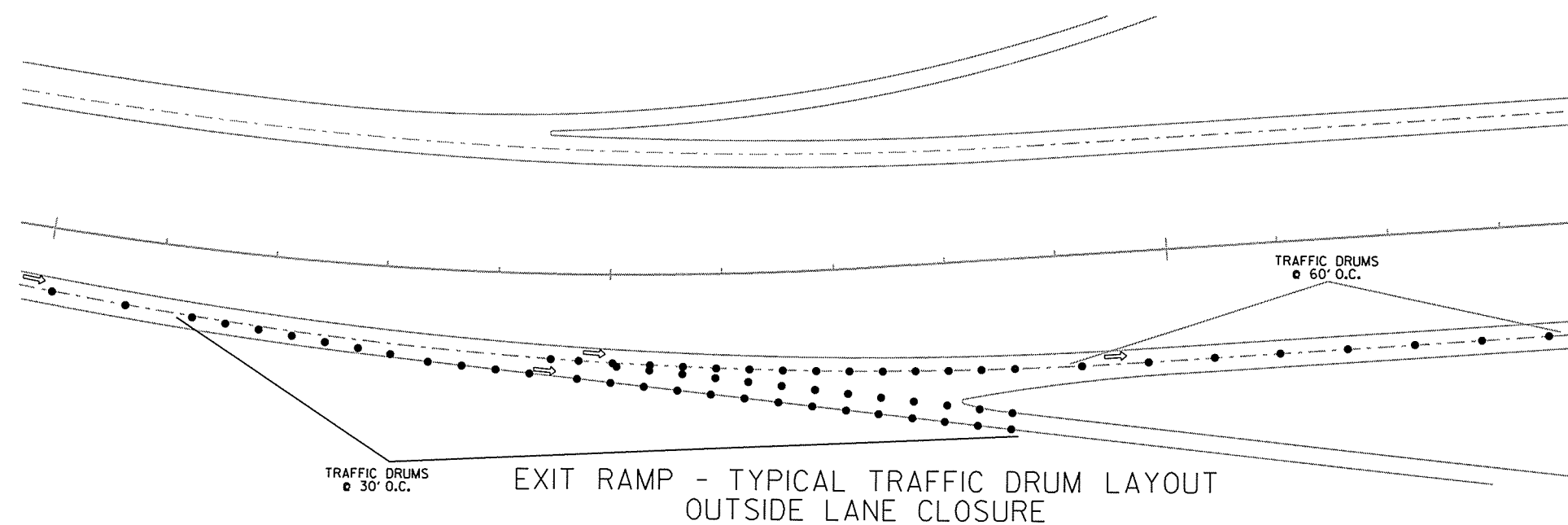
MAINTENANCE OF TRAFFIC
 DETAIL OF RAMPS

4/15/2014

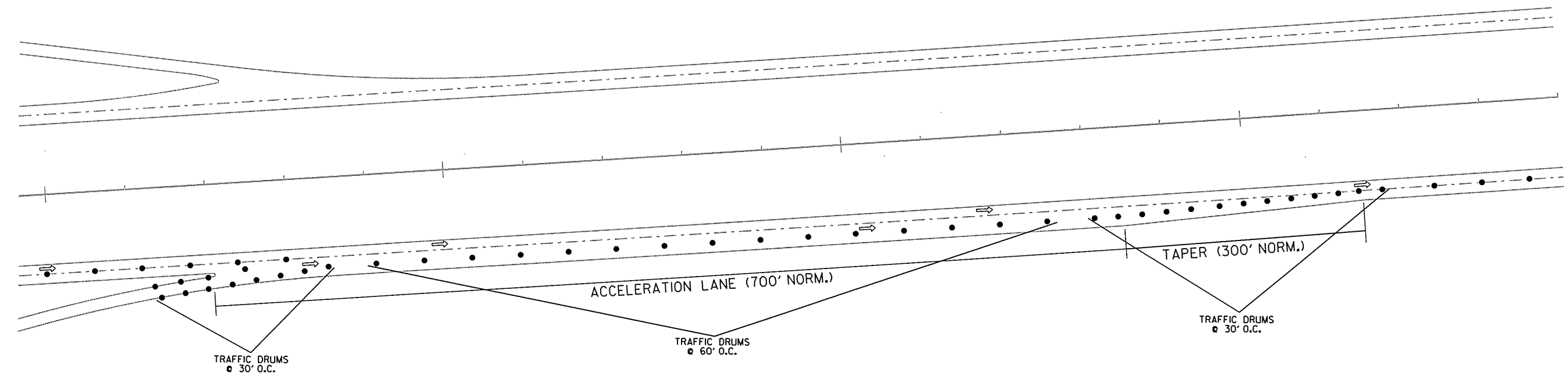
RB0104.DGN

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.	BB0104		35	88

② MAINTENANCE OF TRAFFIC



EXIT RAMP - TYPICAL TRAFFIC DRUM LAYOUT
OUTSIDE LANE CLOSURE



ENTRANCE RAMP - TYPICAL TRAFFIC DRUM LAYOUT
ACCELERATION LANE CLOSURE

EXIT 233:
EASTBOUND EXIT = 40 TRAFFIC DRUMS
EASTBOUND ENTRANCE = 17 TRAFFIC DRUMS

WESTBOUND EXIT = 40 TRAFFIC DRUMS
WESTBOUND ENTRANCE = 17 TRAFFIC DRUMS

EXIT 239:
EASTBOUND EXIT = 40 TRAFFIC DRUMS
EASTBOUND ENTRANCE = 17 TRAFFIC DRUMS

WESTBOUND EXIT = 40 TRAFFIC DRUMS
WESTBOUND ENTRANCE = 17 TRAFFIC DRUMS

REST AREA:
EASTBOUND EXIT = 40 TRAFFIC DRUMS
EASTBOUND ENTRANCE = 17 TRAFFIC DRUMS

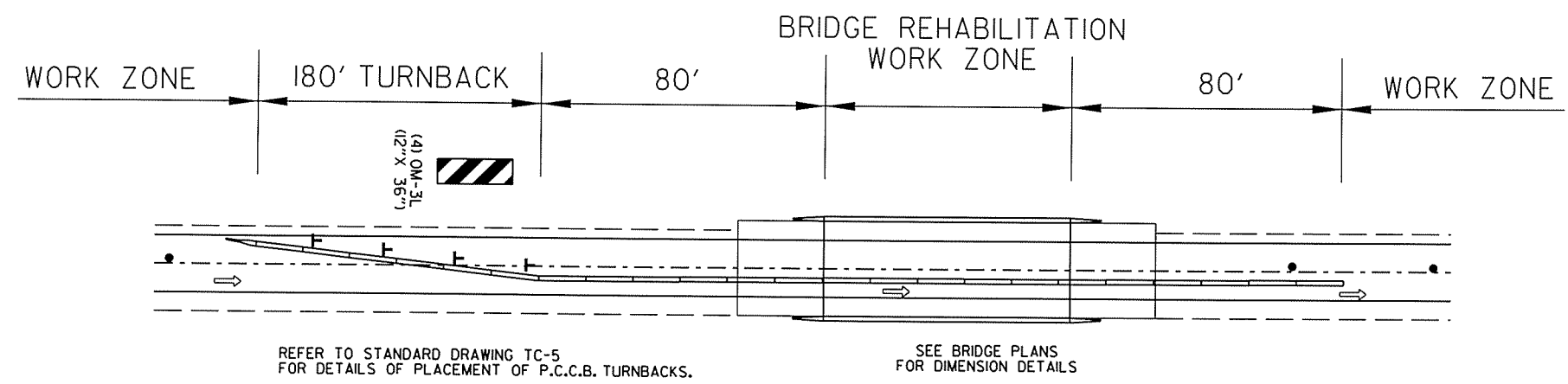
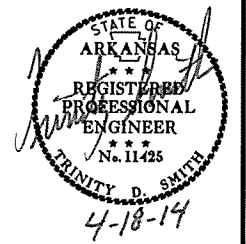
MAINTENANCE OF TRAFFIC
DETAIL OF RAMPS WITH LANE CLOSURE

4/15/2014
RB0104.DGN

PRECAST CONCRETE BARRIER WALL (4 LOCATIONS - 8 INSTALLATIONS)
 (1) FURNISH AND INSTALL = 453 LIN. FT.
 (7) RELOCATE = 453 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. BB0104	36 88

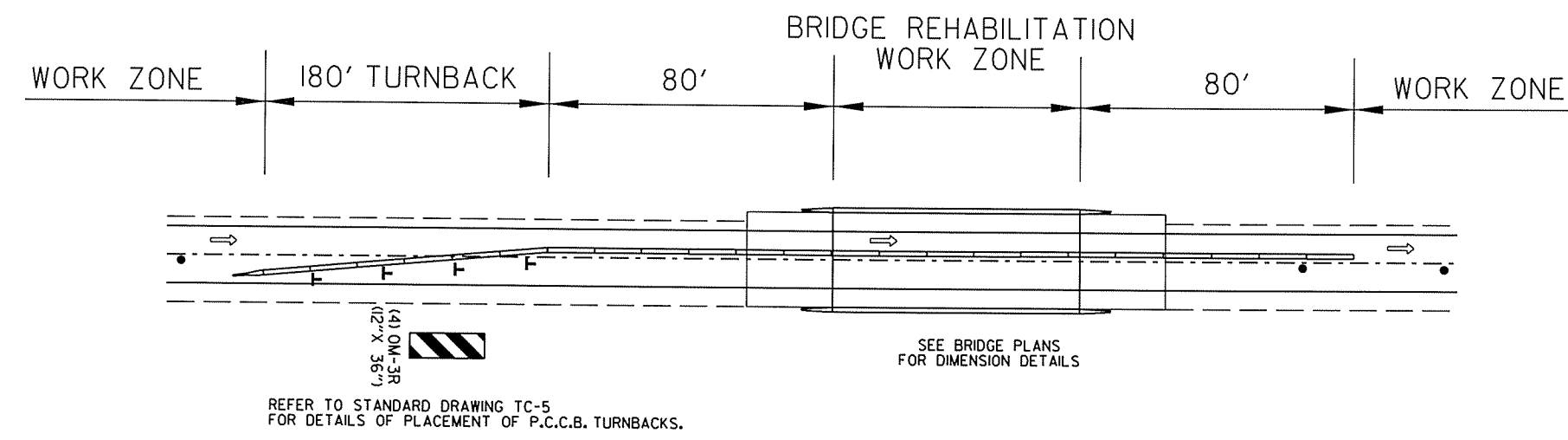
② MAINTENANCE OF TRAFFIC



NOTE: OM-3L SIGNS SHALL BE EQUALLY SPACED ALONG P.C.C.B. TURNBACK.

DIVERSION FOR LT. LANE BRIDGE DECK REHABILITATION

1 SET OF THIS NEEDED FOR JOB BB0104.



NOTE: OM-3R SIGNS SHALL BE EQUALLY SPACED ALONG P.C.C.B. TURNBACK.

DIVERSION FOR RT. LANE BRIDGE DECK REHABILITATION

1 SET OF THIS NEEDED FOR JOB BB0104.

NOTE: BRIDGE DECK REHABILITATION CAN BE PERFORMED FOLLOWING THE COMPLETION OF MAIN LANE MILL & INLAY OPERATIONS. REFER TO SHEET 32 FOR DETAIL OF TRAFFIC SHIFT USING TRAFFIC DRUMS. REFER TO SHEET 31 FOR SEQUENCE OF CONSTRUCTION DETAILS.

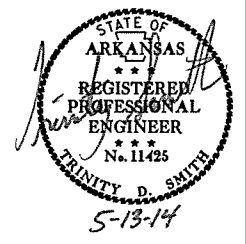
MAINTENANCE OF TRAFFIC DETAILS
 WORK ZONE - BRIDGE DECK REHABILITATION

4/15/2014

RB0104.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
5-9-14				6	ARK.				
						JOB NO.	BB0104	37	88

2 QUANTITIES



CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	ENTIRE PROJECT LIN. FT. - EACH	CONSTRUCTION PAVEMENT MARKINGS LIN. FT.	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS LIN. FT.	RAISED PAVEMENT MARKERS	HIGH PERFORMANCE CONTRAST PAVEMENT MARKING	HIGH PERFORMANCE PAVEMENT MARKING				
				TYPE II (WHITE/RED) EACH	4" WHITE LIN. FT.	4"		8" WHITE LIN. FT.		
						(SKIP LINE) WHITE	WHITE		YELLOW	
CONSTRUCTION PAVEMENT MARKINGS	285824	285824								
REMOVABLE CONSTRUCTION PAV'T MARKINGS	5160		5160							
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)	2130			2130						
HIGH PERFORMANCE CONTRAST PAVEMENT MARKING WHITE (4")	170				170					
HIGH PERFORMANCE PAVEMENT MARKING (SKIP LINE) WHITE (4")	30180					30180				
HIGH PERFORMANCE PAVEMENT MARKING WHITE (4")	125245						125245			
HIGH PERFORMANCE PAVEMENT MARKING YELLOW (4")	125814							125814		
HIGH PERFORMANCE PAVEMENT MARKING WHITE (8")	4415								4415	
TOTALS:		285824	5160	2130	170	30180	125245	125814	4415	

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

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	ENTIRE PROJECT	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS EACH	FURNISHING & INSTALLING PRECAST CONCRETE BARRIER	RELOCATING PRECAST CONCRETE BARRIER	ADVANCE WARNING ARROW PANEL	PORTABLE CHANGEABLE MESSAGE SIGN	TEMPORARY PORTABLE RUMBLE STRIP
			LIN. FT. - EACH		NO.	SQ. FT.		LIN. FT.	DAY	WEEK	EACH	
W20-1	ROAD WORK 1500 FT.	48"x48"	4	4	4	64.0						
W20-1	ROAD WORK 1/2 MILE	48"x48"	4	4	4	64.0						
W20-1	ROAD WORK 1 MILE	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 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						
SPECIAL	MERGE NOW W/ ARROW	48"x48"	2	2	2	32.0						
R2-5A	REDUCED SPEED AHEAD	48"x60"	4	4	4	80.0						
R55-1	FINES DOUBLE IN WORK ZONES	36"x60"	4	4	4	60.0						
OM-3L	OBJECT MARKER	12"x36"	4	4	4	12.0						
OM-3R	OBJECT MARKER	12"x36"	4	4	4	12.0						
W1-6	LARGE ARROW	48"x24"	12	12	12	96.0						
R4-1	DO NOT PASS	48"x60"	8	8	8	160.0						
RSP-1	SHOULDER CLOSED	48"x30"	2	2	2	20.0						
R2-1	SPEED LIMIT 60 MPH	48"x60"	6	6	6	120.0						
R2-1	SPEED LIMIT 70 MPH	48"x60"	4	4	4	80.0						
R2-2	TRUCKS SPEED LIMIT 65 MPH	48"x60"	4	4	4	80.0						
W4-2 RT.	MERGE RIGHT	48"x48"	4	4	4	64.0						
SPECIAL	RUMBLE STRIPS AHEAD	48"x48"	4	4	4	64.0						
	TRAFFIC DRUMS		843	843			843					
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		453	453				453				
	RELOCATING PRECAST CONCRETE BARRIER		3171	3171					3171			
	ADVANCE WARNING ARROW PANEL		2	2						130		
	PORTABLE CHANGEABLE MESSAGE SIGN		4	4							152	
	TEMPORARY PORTABLE RUMBLE STRIP		24	24								24
TOTALS:						1476.0	843	453	3171	130	152	24

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

NOTE: THE QUANTITY OF TRAFFIC DRUMS PROVIDED IS FOR A 4 MILE WORK AREA IN ONE DIRECTION AND A 2 MILE WORK AREA IN THE OTHER DIRECTION. HOWEVER, THE INSTALLATION OF TRAFFIC DRUMS SHALL NEVER EXCEED THE ACTUAL WORK AREA BY MORE THAN 1/4 MILE, UNLESS APPROVED BY THE ENGINEER.

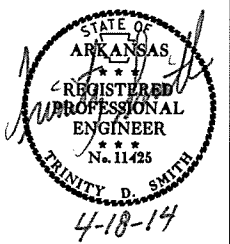
QUANTITIES

5/9/2014

RB0104.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. BB0104	38	88

2 QUANTITIES



CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH		CONC. DITCH PAVING (TYPE B) SQ. YD.	SOLID SODDING SQ. YD.	WATER M. GAL.
			LIN. FT.	"W" FEET			
3435+13	3580+80	RIGHT OF LEFT MAIN LANES	14567.00	4	6474.22	6474.22	81.58
3583+43	3599+67	LEFT OF RIGHT MAIN LANES	1624.00	4	721.78	721.78	9.09
3603+03	3700+53	RIGHT OF LEFT MAIN LANES	9750.00	4	4333.33	4333.33	54.60
3705+72	3744+99	RIGHT OF LEFT MAIN LANES	3927.00	4	1745.33	1745.33	21.99
3753+07	3827+67	LEFT OF RIGHT MAIN LANES	7460.00	4	3315.56	3315.56	41.78
3828+03	3873+57	RIGHT OF LEFT MAIN LANES	4554.00	4	2024.00	2024.00	25.50
3878+78	3943+75	RIGHT OF LEFT MAIN LANES	6497.00	4	2887.56	2887.56	36.38
3945+68	3986+29	LEFT OF RIGHT MAIN LANES	4061.00	4	1804.89	1804.89	22.74
3991+49	4006+10	LEFT OF RIGHT MAIN LANES	1461.00	4	649.33	649.33	8.18
4011+30	4031+09	LEFT OF RIGHT MAIN LANES	1979.00	4	879.56	879.56	11.08
4034+95	4054+86	LEFT OF RIGHT MAIN LANES	1991.00	4	884.89	884.89	11.15
TOTALS:					25720.45	25720.45	324.07

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

WIRE ROPE SAFETY FENCE

STATION	STATION	LOCATION	WIRE ROPE SAFETY FENCE	*WRSF ANCHOR	WRSF MAINTENANCE MATERIALS	**WRSF POST REPAIR
			LIN. FT	EACH	LUMP SUM	EACH
3435+13.00	3581+40.00	RIGHT OF LEFT MAIN LANES	14627.00	2		
3582+83.00	3599+67.00	LEFT OF RIGHT MAIN LANES	1684.00	2		
3603+03.00	3701+13.00	RIGHT OF LEFT MAIN LANES	9810.00	2		
3705+13.00	3744+99.00	RIGHT OF LEFT MAIN LANES	3986.00	2		
3753+07.00	3827+67.00	LEFT OF RIGHT MAIN LANES	7460.00	2		
3828+03.00	3874+17.00	RIGHT OF LEFT MAIN LANES	4614.00	2		
3878+18.00	3943+75.00	RIGHT OF LEFT MAIN LANES	6557.00	2		
3945+68.00	3986+89.00	LEFT OF RIGHT MAIN LANES	4121.00	2		
3990+89.00	4006+70.00	LEFT OF RIGHT MAIN LANES	1581.00	2		
4010+70.00	4031+09.00	LEFT OF RIGHT MAIN LANES	2039.00	2		
4034+95.00	4054+86.00	LEFT OF RIGHT MAIN LANES	1991.00	2		
ENTIRE	PROJECT				1.00	50
TOTALS:			58470.00	22	1.00	50

* SHOWN FOR INFORMATION ONLY.
** QUANTITY 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	EACH
3578+32.62	3583+32.62	LEFT OF RIGHT MAIN LANES	450	1	1
3580+90.13	3585+90.13	RIGHT OF LEFT MAIN LANES	450	1	1
3698+08.90	3703+08.90	LEFT OF RIGHT MAIN LANES	450	1	1
3700+62.57	3705+62.57	RIGHT OF LEFT MAIN LANES	450	1	1
3870+87.06	3875+87.06	LEFT OF RIGHT MAIN LANES	450	1	1
3873+66.61	3878+66.61	RIGHT OF LEFT MAIN LANES	450	1	1
3986+38.81	3991+38.81	LEFT OF RIGHT MAIN LANES	450	1	1
3988+54.17	3993+54.17	RIGHT OF LEFT MAIN LANES	450	1	1
4006+20.25	4011+20.25	LEFT OF RIGHT MAIN LANES	450	1	1
4009+15.88	4014+15.88	RIGHT OF LEFT MAIN LANES	450	1	1
TOTALS:			4500	10	10

CULVERT REHABILITATION

STA.	LOCATION	DESCRIPTION	SLIP LINE PIPE					
			18"	24"	30"	36"	48"	
3450+14	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3462+13	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3474+13	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3483+14	UNDER LT. & RT. LANES	36" X 164' C.M. PIPE CULVERT				164		
3495+14	UNDER RT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3507+13	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3513+06	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3528+13	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3538+13	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3550+13	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3562+15	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3572+15	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3588+15	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3600+15	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3613+15	UNDER RT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3623+14	UNDER RT. LANE	24" X 80' C.M. PIPE OUTLET		80				
3633+14	UNDER RT. LANE	24" X 80' C.M. PIPE OUTLET		80				
3634+15	UNDER LT. & RT. LANES	24" X 250' C.M. PIPE CULVERT		250				
3645+15	UNDER RT. LANE	24" X 82' C.M. PIPE OUTLET		82				
3657+15	UNDER RT. LANE	24" X 88' C.M. PIPE OUTLET		88				
3666+15	UNDER RT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3677+15	UNDER RT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3686+15	UNDER RT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3698+15	UNDER LT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3700+95	UNDER LT. & RT. LANES	24" X 168' C.M. PIPE CULVERT		168				
3704+15	UNDER RT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3708+15	UNDER LT. & RT. LANES	36" X 200' C.M. PIPE CULVERT				200		
3714+05	UNDER RT. LANE	24" X 92' C.M. PIPE OUTLET		92				
3720+15	UNDER RT. LANE	24" X 110' C.M. PIPE OUTLET		110				
3732+15	UNDER RT. LANE	24" X 122' C.M. PIPE OUTLET		122				
3738+30	UNDER RT. LANE	24" X 138' C.M. PIPE OUTLET		138				
3759+14	UNDER RT. LANE	24" X 124' C.M. PIPE OUTLET		124				
3765+36	UNDER LT. & RT. LANES	48" X 264' C.M. PIPE CULVERT				264		
3777+14	UNDER RT. LANE	18" X 128' C.M. PIPE OUTLET		128				
3783+81	UNDER LT. & RT. LANES	36" X 254' C.M. PIPE CULVERT				254		
3789+14	UNDER RT. LANE	18" X 124' C.M. PIPE OUTLET		124				
3811+15	UNDER RT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3817+15	UNDER RT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3828+15	UNDER LT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3852+15	UNDER LT. LANE	24" X 86' C.M. PIPE OUTLET		86				
3864+15	UNDER LT. LANE	24" X 86' C.M. PIPE OUTLET			86			
3874+14	UNDER LT. LANE	24" X 84' C.M. PIPE OUTLET		84				
3964+15	UNDER LT. & RT. LANES	24" X 88' PIPE INLET, 24" X 92' PIPE OUTLET		180				
TOTALS:				252	3550	86	618	264

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QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0104		39	88

2 QUANTITIES



EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL		
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	SAND BAG DITCH CHECKS (E-5)	DROP INLET SILT FENCE (E-7)	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	BAG	LIN. FT.	CU. YD.
ENTIRE	PROJECT	MAIN LANES	14.42	28.84	14.42	1470.8	14.42	1694	1825	145
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			3.61	7.22	3.61	368.2	3.61	424	456	36
TOTALS:			18.03	36.06	18.03	1839.0	18.03	2118	2281	181

BASIS OF ESTIMATE:

LIME2 TONS / ACRE OF SEEDING
 WATER.....102.0 M.G. / ACRE OF SEEDING.
 SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
 DROP INLET SILT FENCE.....25 LIN. FT./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.

RUMBLE STRIPS IN ASPHALT SHOULDERS

STATION	STATION	LOCATION	* RUMBLE STRIPS IN ASPHALT SHOULDERS
			LIN.FT.
3438+70	3692+45	RT. OF RT. MAIN LANES	25375
3694+39	3709+71	RT. OF RT. MAIN LANES	1532
3709+73	3744+72	RT. OF RT. MAIN LANES	3499
3753+33	3818+08	RT. OF RT. MAIN LANES	6475
3819+85	3847+36	RT. OF RT. MAIN LANES	2751
3847+38	3944+65	RT. OF RT. MAIN LANES	9727
3946+28	3995+12	RT. OF RT. MAIN LANES	4884
3996+32	4018+78	RT. OF RT. MAIN LANES	2246
4018+81	4033+91	RT. OF RT. MAIN LANES	1510
4035+55	4050+65	RT. OF RT. MAIN LANES	1510
3438+70	3693+34	LT. OF LT. MAIN LANES	25464
3693+36	3709+91	LT. OF LT. MAIN LANES	1655
3711+74	3744+72	LT. OF LT. MAIN LANES	3298
3753+33	3943+16	LT. OF LT. MAIN LANES	18983
3944+79	4001+24	LT. OF LT. MAIN LANES	5645
4001+26	4025+97	LT. OF LT. MAIN LANES	2471
4027+24	4032+46	LT. OF LT. MAIN LANES	522
4034+07	4050+65	LT. OF LT. MAIN LANES	1658
3438+70	3744+72	RT. OF LT. MAIN LANES	30602
3753+33	3943+49	RT. OF LT. MAIN LANES	19016
3944+75	4032+78	RT. OF LT. MAIN LANES	8803
4034+03	4050+65	RT. OF LT. MAIN LANES	1662
3438+70	3744+72	LT. OF RT. MAIN LANES	30602
3753+33	3944+32	LT. OF RT. MAIN LANES	19099
3945+58	4033+58	LT. OF RT. MAIN LANES	8800
4034+85	4050+65	LT. OF RT. MAIN LANES	1580
TOTAL:			239369

* QUANTITY ESTIMATED.
 SEE SECTION 104.03 OF THE STD. SPECS.
 TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	CU. YD.
3577+90	3583+91	LT. OF RT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT JUMPER CORNER RD. OVERPASS	119	
3580+33	3586+34	RT. OF LT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT JUMPER CORNER RD. OVERPASS	119	
3697+67	3703+53	LT. OF RT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT N. MAIN ST. OVERPASS	116	
3700+06	3706+22	RT. OF LT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT N. MAIN ST. OVERPASS	122	
3870+44	3876+30	LT. OF RT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT BECK RD. OVERPASS	116	
3873+10	3879+26	RT. OF LT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT BECK RD. OVERPASS	122	
3985+82	3991+98	LT. OF RT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT DAWSON RD. OVERPASS	122	
3988+12	3993+98	RT. OF LT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT DAWSON RD. OVERPASS	116	
4005+63	4011+79	LT. OF RT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT HWY. 1 OVERPASS	122	
4008+74	4014+60	RT. OF LT. MAIN LANES SHLDR. WIDENING FOR GUARDRAIL AT HWY. 1 OVERPASS	116	
3599+85		MEDIAN CROSSOVER	15	260
3827+85		MEDIAN CROSSOVER	15	260
ENTIRE	PROJECT	TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER		200*
TOTALS:			1220	720

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

FLUSHING UNDERDRAIN

STA.	STA.	LOCATION	LIN. FT.
3438+70	3745+09	LT. MAIN LANES	30639
3752+97	3943+66	LT. MAIN LANES	19069
3944+56	4032+96	LT. MAIN LANES	8840
4033+84	4050+65	LT. MAIN LANES	1681
3438+70	3745+09	RT. MAIN LANES	30639
3752+97	3944+87	RT. MAIN LANES	19190
3945+77	4034+14	RT. MAIN LANES	8837
4035+05	4050+65	RT. MAIN LANES	1560
TOTAL:			120455

4/16/2014

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							BB0104	40	88

2 QUANTITIES



COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
MAIN LANES				
3438+70.20	3744+72.03	LT. MAIN LANES	30	102006.10
3753+33.19	3943+32.38	LT. MAIN LANES	30	63330.63
3944+95.38	4032+62.15	LT. MAIN LANES	30	29222.57
4034+23.16	4050+65.40	LT. MAIN LANES	30	5474.13
3438+70.20	3744+72.03	RT. MAIN LANES	30	102006.10
3753+33.54	3944+48.20	RT. MAIN LANES	30	63715.53
3946+11.19	4033+74.51	RT. MAIN LANES	30	29211.07
4035+37.90	4050+65.40	RT. MAIN LANES	30	5091.67
ADDITIONAL FOR ENTRANCE AND EXIT RAMP				
3687+61.51	3694+39.19	EXIT 233 RT. MAIN LANES - TURN OUT	VARIES	906.15
3692+45.23	3697+95.23	EXIT 233 RAMP 1 - EXIT RAMP	15.5	947.22
3709+70.74	3719+70.22	EXIT 233 RT. MAIN LANES - ACCELERATION LANE AND TAPER	VARIES	1214.06
3704+22.24	3709+72.24	EXIT 233 RAMP 2 - ENTRANCE RAMP	15.5	947.22
3709+90.51	3716+76.05	EXIT 233 LT. MAIN LANES - TURN OUT	VARIES	1018.17
3706+22.83	3711+72.83	EXIT 233 RAMP 3 - EXIT RAMP	15.5	947.22
3683+35.36	3693+36.27	EXIT 233 LT. MAIN LANES - ACCELERATION LANE AND TAPER	VARIES	1163.80
3693+34.84	3698+84.84	EXIT 233 RAMP 4 - ENTRANCE RAMP	15.5	947.22
3813+19.66	3819+85.03	REST AREA RT. MAIN LANES - TURN OUT	VARIES	922.54
3818+08.72	3823+58.72	REST AREA RAMP 1 - EXIT RAMP	15.5	947.22
3847+35.69	3857+38.36	REST AREA RT. MAIN LANES - ACCELERATION LANE AND TAPER	VARIES	1170.21
3841+86.91	3847+36.91	REST AREA RAMP 2 - ENTRANCE RAMP	15.5	947.22
3990+35.98	3996+32.08	EXIT 239 RT. MAIN LANES - TURN OUT	VARIES	815.49
3995+13.08	4000+63.08	EXIT 239 RAMP 1 - EXIT RAMP	15.5	947.22
4018+78.38	4029+34.54	EXIT 239 RT. MAIN LANES - ACCELERATION LANE AND TAPER	VARIES	1047.24
4013+29.94	4018+79.94	EXIT 239 RAMP 2 - ENTRANCE RAMP	15.5	947.22
4025+97.39	4031+93.00	EXIT 239 LT. MAIN LANES - TURN OUT	VARIES	807.09
4021+72.85	4027+22.85	EXIT 239 RAMP 3 - EXIT RAMP	15.5	947.22
3990+65.99	4001+26.37	EXIT 239 LT. MAIN LANES - ACCELERATION LANE AND TAPER	VARIES	1165.71
4001+24.89	4006+74.89	EXIT 239 RAMP 4 - ENTRANCE RAMP	15.5	947.22
TOTAL:				419760.46

*NOTE: REFER TO TYPICAL SECTIONS OF IMPROVEMENT FOR DEPTH AND WIDTH OF COLD MILLING.

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER

STATION	LOCATION	EACH
3582+11	JUMPER CORNER RD. OVERPASS	2
3701+86	PALESTINE RD. OVERPASS	2
3874+77	BECK RD. OVERPASS	2
3989+96	DAWSON RD. OVERPASS	2
4010+18	HWY. 1 OVERPASS	2
TOTAL:		10

SHOULDER RECONSTRUCTION FOR MAINTENANCE OF TRAFFIC

STATION	STATION	LOCATION	LENGTH	TACK COAT .03 GAL PER SQ. YD.		ACHM BASE COURSE (1-1/2")				ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (1/2")				TRENCHING AND SHOULDER PREPARATION
				AREA SQ. YD.	GAL.	AVG. WIDTH FEET	AREA SQ. YD.	LBS. PER SQ. YD.	TON	AVG. WIDTH FEET	AREA SQ. YD.	LBS. PER SQ. YD.	TON	AVG. WIDTH FEET	AREA SQ. YD.	LBS. PER SQ. YD.	TON	
3940+89.62	3943+29.62	LT. OF LT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
3944+92.62	3947+32.62	LT. OF LT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
4030+19.32	4032+59.32	LT. OF LT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
4034+22.32	4036+62.32	LT. OF LT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
3942+10.95	3944+50.95	RT. OF RT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
3946+13.95	3948+53.95	RT. OF RT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
4031+37.94	4033+77.94	RT. OF RT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
4035+40.94	4037+80.94	RT. OF RT. MAIN LANES	240.00	551.20	16.54	10.42	277.87	550.00	76.41	10.25	273.33	440.00	60.13	10.00	266.67	440.00	58.67	2.40
TOTALS:					132.32			2222.96	611.28		2186.64	481.04		2133.36	469.36		19.20	

BASIS OF ESTIMATE: ACHM SURFACE COURSE (1/2") MIN AGG = 94.8% ASPH BINDER (PG 76-22) = 5.2%
 ACHM BINDER COURSE (1") MIN AGG = 95.7% ASPH BINDER (PG 76-22) = 4.3%
 ACHM BASE COURSE (1-1/2") MIN AGG = 96.1% ASPH BINDER (PG 76-22) = 3.9%
 NMAX = 205

4/21/2014

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QUANTITIES

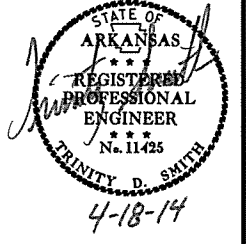
BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH FEET	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT			ACHM SURFACE COURSE (1/2")				
				TON / STATION	TON	AVG. WID. FEET	SQ.YD.	GALLONS / SQ.YD.	GALLON	AVG. WID. FEET	SQ.YD.	POUND / SQ.YD.	PG 76-22 TON
MAIN LANES													
3438+70.00	3573+64.00	LT. MAIN LANES	13494.00			60.00	89960.00	0.10	8996.00	60.00	89960.00	220.00	9895.60
3573+64.00	3590+64.00	LT. MAIN LANES	1700.00			58.00	10955.56	0.10	1095.56	58.00	10955.56	220.00	1205.11
3590+64.00	3694+14.90	LT. MAIN LANES	10350.90			60.00	69006.00	0.10	6900.60	60.00	69006.00	220.00	7590.66
3694+14.90	3708+64.90	LT. MAIN LANES	1450.00			58.00	9344.44	0.10	934.44	58.00	9344.44	220.00	1027.89
3708+64.90	3744+72.03	LT. MAIN LANES	3607.13			60.00	24047.53	0.10	2404.75	60.00	24047.53	220.00	2645.23
3753+33.19	3868+22.00	LT. MAIN LANES	11488.81			60.00	76592.07	0.10	7659.21	60.00	76592.07	220.00	8425.13
3868+22.00	3882+22.00	LT. MAIN LANES	1400.00			58.00	9022.22	0.10	902.22	58.00	9022.22	220.00	992.44
3882+22.00	3936+12.44	LT. MAIN LANES	5390.44			60.00	35936.27	0.10	3593.63	60.00	35936.27	220.00	3952.99
3936+12.44	3943+29.62	LT. MAIN LANES	717.18			58.00	4621.83	0.10	462.18	58.00	4621.83	220.00	508.40
3944+92.62	3952+12.44	LT. MAIN LANES	719.82			58.00	4638.84	0.10	463.88	58.00	4638.84	220.00	510.27
3952+12.44	3982+14.70	LT. MAIN LANES	3002.26			60.00	20015.07	0.10	2001.51	60.00	20015.07	220.00	2201.66
3982+14.70	3997+64.70	LT. MAIN LANES	1550.00			58.00	9988.89	0.10	998.89	58.00	9988.89	220.00	1098.78
3997+64.70	4008+92.50	LT. MAIN LANES	1127.80			60.00	7518.67	0.10	751.87	60.00	7518.67	220.00	827.05
4008+92.50	4010+37.50	LT. MAIN LANES	145.00			58.00	934.44	0.10	93.44	58.00	934.44	220.00	102.79
4010+37.50	4026+96.32	LT. MAIN LANES	1658.82			60.00	11058.80	0.10	1105.88	60.00	11058.80	220.00	1216.47
4026+96.32	4032+59.32	LT. MAIN LANES	563.00			58.00	3628.22	0.10	362.82	58.00	3628.22	220.00	399.10
4034+22.32	4050+67.90	LT. MAIN LANES	1645.58			58.00	10604.85	0.10	1060.49	58.00	10604.85	220.00	1166.53
ADDITIONAL FOR ENTRANCE AND EXIT RAMPS													
3438+70.00	3573+64.00	RT. MAIN LANES	13494.00			60.00	89960.00	0.10	8996.00	60.00	89960.00	220.00	9895.60
3573+64.00	3590+64.00	RT. MAIN LANES	1700.00			58.00	10955.56	0.10	1095.56	58.00	10955.56	220.00	1205.11
3590+64.00	3694+14.90	RT. MAIN LANES	10350.90			60.00	69006.00	0.10	6900.60	60.00	69006.00	220.00	7590.66
3694+14.90	3708+64.90	RT. MAIN LANES	1450.00			58.00	9344.44	0.10	934.44	58.00	9344.44	220.00	1027.89
3708+64.90	3744+72.03	RT. MAIN LANES	3607.13			60.00	24047.53	0.10	2404.75	60.00	24047.53	220.00	2645.23
3753+33.19	3868+22.00	RT. MAIN LANES	11488.81			60.00	76592.07	0.10	7659.21	60.00	76592.07	220.00	8425.13
3868+22.00	3882+22.00	RT. MAIN LANES	1400.00			58.00	9022.22	0.10	902.22	58.00	9022.22	220.00	992.44
3882+22.00	3937+17.95	RT. MAIN LANES	5495.95			60.00	36639.67	0.10	3663.97	60.00	36639.67	220.00	4030.36
3937+17.95	3944+50.95	RT. MAIN LANES	733.00			58.00	4723.78	0.10	472.38	58.00	4723.78	220.00	519.62
3944+50.95	3953+17.95	RT. MAIN LANES	704.00			58.00	4536.89	0.10	453.69	58.00	4536.89	220.00	499.06
3953+17.95	3983+14.70	RT. MAIN LANES	2996.75			60.00	19978.33	0.10	1997.83	60.00	19978.33	220.00	2197.62
3983+14.70	3996+64.70	RT. MAIN LANES	1350.00			58.00	8700.00	0.10	870.00	58.00	8700.00	220.00	957.00
3996+64.70	4008+92.50	RT. MAIN LANES	1227.80			60.00	8185.33	0.10	818.53	60.00	8185.33	220.00	900.39
4008+92.50	4010+37.50	RT. MAIN LANES	145.00			58.00	934.44	0.10	93.44	58.00	934.44	220.00	102.79
4010+37.50	4027+01.94	RT. MAIN LANES	1664.44			60.00	11096.27	0.10	1109.63	60.00	11096.27	220.00	1220.59
4027+01.94	4033+77.94	RT. MAIN LANES	676.00			58.00	4356.44	0.10	435.64	58.00	4356.44	220.00	479.21
4035+40.94	4050+67.90	RT. MAIN LANES	1526.96			58.00	9840.41	0.10	984.04	58.00	9840.41	220.00	1082.45
3687+61.51	3694+39.19	EXIT 233 RT. MAIN LANES - TURN OUT	677.68			VARIES	906.15	0.10	90.62	VARIES	906.15	440.00	199.35
3692+45.23	3697+95.23	EXIT 233 RAMP 1 - EXIT RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
3709+70.74	3719+70.22	EXIT 233 RT. MAIN LANES - ACCELERATION LANE AND TAPER	999.48			VARIES	1214.06	0.10	121.41	VARIES	1214.06	440.00	267.09
3704+22.24	3709+72.24	EXIT 233 RAMP 2 - ENTRANCE RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
3709+90.51	3716+76.05	EXIT 233 LT. MAIN LANES - TURN OUT	685.54			VARIES	1018.17	0.10	101.82	VARIES	1018.17	440.00	224.00
3706+22.83	3711+72.83	EXIT 233 RAMP 3 - EXIT RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
3683+35.36	3693+36.27	EXIT 233 LT. MAIN LANES - ACCELERATION LANE AND TAPER	1000.91			VARIES	1163.80	0.10	116.38	VARIES	1163.80	440.00	256.04
3693+34.84	3698+84.84	EXIT 233 RAMP 4 - ENTRANCE RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
3813+19.66	3819+85.03	REST AREA RT. MAIN LANES - TURN OUT	665.37			VARIES	922.54	0.10	92.25	VARIES	922.54	440.00	202.96
3818+08.72	3823+58.72	REST AREA RAMP 1 - EXIT RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
3847+35.69	3857+38.36	REST AREA RT. MAIN LANES - ACCELERATION LANE AND TAPER	1002.67			VARIES	1170.21	0.10	117.02	VARIES	1170.21	440.00	257.45
3841+86.91	3847+36.91	REST AREA RAMP 2 - ENTRANCE RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
3990+35.98	3996+32.08	EXIT 239 RT. MAIN LANES - TURN OUT	596.10			VARIES	815.49	0.10	81.55	VARIES	815.49	440.00	179.41
3995+13.08	4000+63.08	EXIT 239 RAMP 1 - EXIT RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
4018+78.38	4029+34.54	EXIT 239 RT. MAIN LANES - ACCELERATION LANE AND TAPER	1056.16			VARIES	1047.24	0.10	104.72	VARIES	1047.24	440.00	230.39
4013+29.94	4018+79.94	EXIT 239 RAMP 2 - ENTRANCE RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
4025+97.39	4031+93.00	EXIT 239 LT. MAIN LANES - TURN OUT	595.61			VARIES	807.09	0.10	80.71	VARIES	807.09	440.00	177.56
4021+72.85	4027+22.85	EXIT 239 RAMP 3 - EXIT RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
3990+65.99	4001+26.37	EXIT 239 LT. MAIN LANES - ACCELERATION LANE AND TAPER	1060.38			VARIES	1165.71	0.10	116.57	VARIES	1165.71	440.00	256.46
4001+24.89	4006+74.89	EXIT 239 RAMP 4 - ENTRANCE RAMP	550.00			15.50	947.22	0.10	94.72	15.50	947.22	440.00	208.39
ADDITIONAL FOR WIDENING FOR GUARDRAIL													
3577+90.48	3583+91.48	LEFT OF RIGHT MAIN LANES	601.00	29.50	177.30					VARIES	504.28	220.00	55.47
3580+33.19	3586+34.19	RIGHT OF LEFT MAIN LANES	601.00	29.50	177.30					VARIES	504.28	220.00	55.47
3697+66.76	3703+52.76	LEFT OF RIGHT MAIN LANES	586.00	28.75	168.48					VARIES	468.16	220.00	51.50
3700+05.61	3706+21.61	RIGHT OF LEFT MAIN LANES	616.00	30.25	186.34					VARIES	540.39	220.00	59.44
3870+44.45	3876+30.45	LEFT OF RIGHT MAIN LANES	586.00	28.75	168.48					VARIES	468.16	220.00	51.50
3873+09.78	3879+25.78	RIGHT OF LEFT MAIN LANES	616.00	30.25	186.34					VARIES	540.39	220.00	59.44
3985+81.93	3991+97.93	LEFT OF RIGHT MAIN LANES	616.00	30.25	186.34					VARIES	540.39	220.00	59.44
3988+12.03	3993+98.03	RIGHT OF LEFT MAIN LANES	586.00	28.75	168.48					VARIES	468.16	220.00	51.50
4005+63.38	4011+79.38	LEFT OF RIGHT MAIN LANES	616.00	30.25	186.34					VARIES	540.39	220.00	59.44
4008+73.75	4014+59.75	RIGHT OF LEFT MAIN LANES	586.00	28.75	168.48					VARIES	468.16	220.00	51.50
ADDITIONAL FOR MEDIAN CROSSOVER													
3599+85.00		I-40 MAIN LANE MEDIAN	60.00	VARIES	60.00					16.00	146.00	220.00	16.06
3827+85.00		I-40 MAIN LANE MEDIAN	60.00	VARIES	60.00					16.00	146.00	220.00	16.06
TOTALS:						1893.88	815495.74		81549.55		820830.50		92458.68

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....94.8% MIN. AGGR.....5.2% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 205 FOR PG 76-22

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		41	88
				JOB NO.	BB0104			

2 QUANTITIES



4/21/2014 RB0104.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
							42	88
				JOB NO.	BBO104			
				A&B3614, - QUANTITIES - 55471				
				A&B3617				

SCHEDULE OF BRIDGE QUANTITIES - JOB BBO104

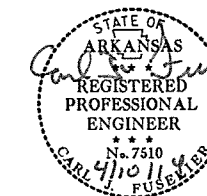
LOG MILE	② UNIT OF STRUCTURE	ITEM NO.	509	802	803	803	804	SP JOB BBO104	SP JOB BBO104
		ITEM	JOINT REHABILITATION (TYPE A)	GROOVING	CLASS 1 PROTECTIVE SURFACE TREATMENT	CLASS 3 PROTECTIVE SURFACE TREATMENT	REINFORCING STEEL - BRIDGE (GRADE 60)	HYDRODEMOLITION	LATEX MODIFIED CONCRETE OVERLAY (1½" THICK)
		UNIT	LIN. FT.	SQ. YD.	GAL.	LIN. FT.	LBS.	SQ. YD.	SQ. YD.
237.80	EXISTING BRIDGE NO. A3614		129	365	8.0	180	200	395	395
237.80	EXISTING BRIDGE NO. B3614		129	365	8.0	180	200	395	395
239.52	EXISTING BRIDGE NO. A3617		129	365	8.0	180	200	395	395
239.52	EXISTING BRIDGE NO. B3617		129	365	8.0	180	200	395	395
TOTALS FOR JOB NO. BBO104			516	1,460	32.0	720	800 ①	1,580	1,580

② Bridge decks have no existing asphalt overlay.

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

PRINT DATE: 4/10/2014

AILEEN SCHUBEL
DESIGN SECTION SUPERVISOR



BRIDGE ENGINEER

SCHEDULE OF BRIDGE QUANTITIES
GOODWIN-FORREST CITY (S)
ST. FRANCIS COUNTY

ROUTE 40 SEC. 51
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

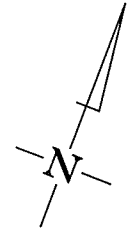
DRAWN BY: KNY DATE: 1/24/14 FILENAME: bbb0104_al.dgn
 CHECKED BY: ANS DATE: 4/10/14 SCALE: _____
 DESIGNED BY: _____ DATE: _____
 BRIDGE NO. A&B3614, A&B3617 DRAWING NO. 55471

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. BBO104							44	88

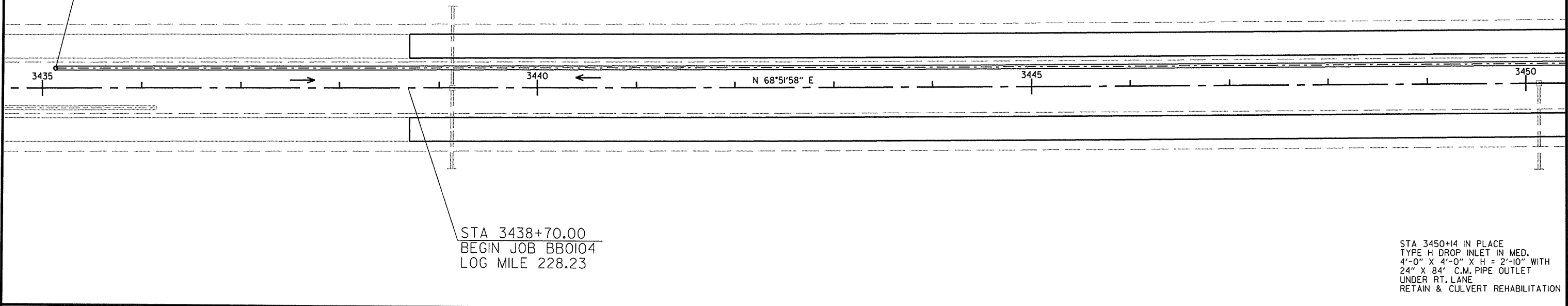
2 PLAN SHEETS



STA 3439+14 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 4'-8" X H = 3'-10" WITH
30" X 164' C.M. PIPE CULV'T WITH PVC INSIDE
RETAIN

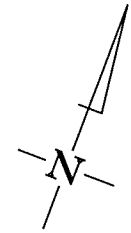


STA 3435+13.00
BEGIN WRSF

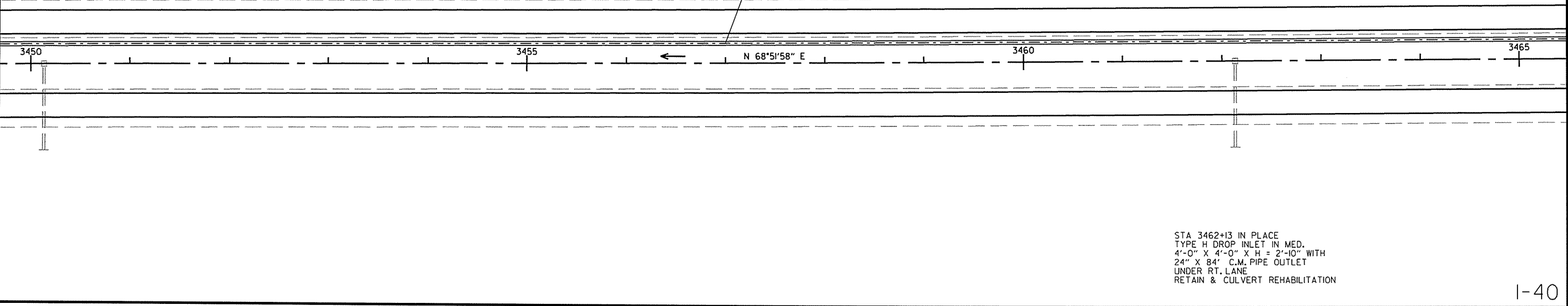


STA 3438+70.00
BEGIN JOB BBO104
LOG MILE 228.23

STA 3450+14 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 4'-0" X H = 2'-10" WITH
24" X 84' C.M. PIPE OUTLET
UNDER RT. LANE
RETAIN & CULVERT REHABILITATION



WRSF & CONCRETE
DITCH PAVING



STA 3462+13 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 4'-0" X H = 2'-10" WITH
24" X 84' C.M. PIPE OUTLET
UNDER RT. LANE
RETAIN & CULVERT REHABILITATION

4/16/2014

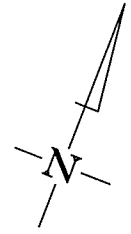
RBB0104.DGN

STA 3468+14 IN PLACE
 6' X 6' X 150' R.C. BOX CULV'T.
 D.A. = 400 AC., C = 0.4
 RETAIN

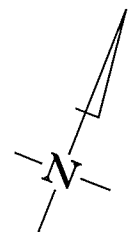
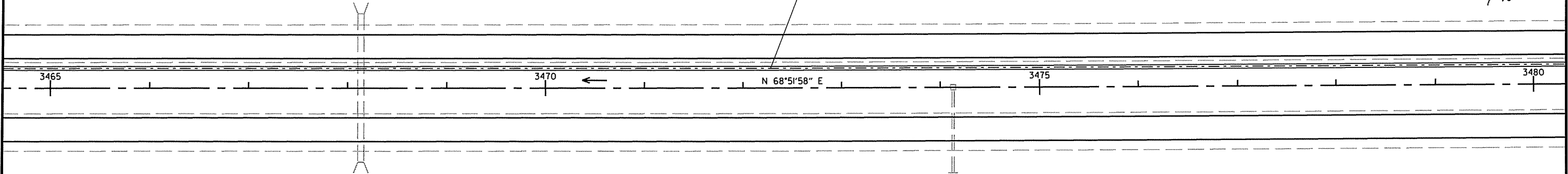
STA 3474+13 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 84' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

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. BB0104							45	88

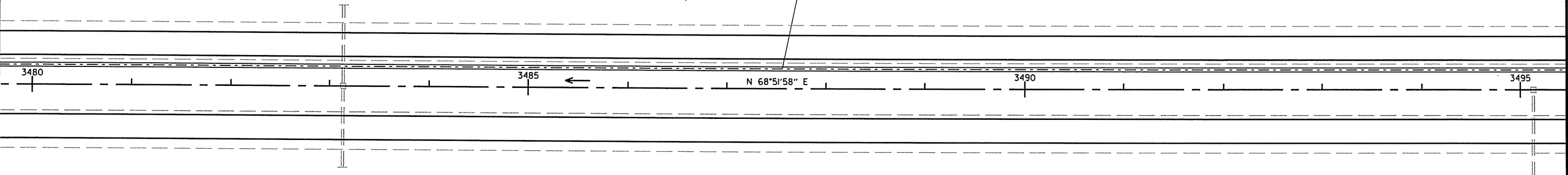
2 PLAN SHEETS



WRSF & CONCRETE
 DITCH PAVING



WRSF & CONCRETE
 DITCH PAVING



STA 3483+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-8" X H = 3'-10" WITH
 36" X 164' C.M. PIPE CULVERT
 RETAIN & CULVERT REHABILITATION

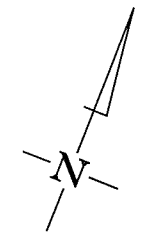
STA 3495+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

4/16/2014

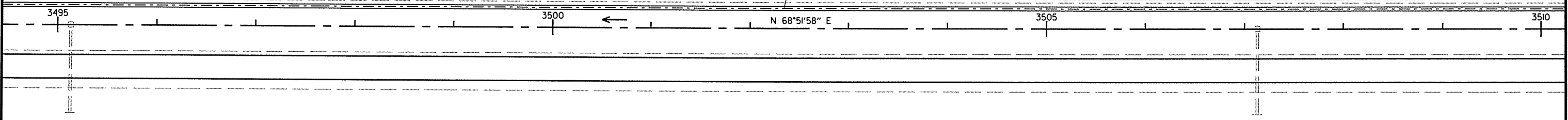
RB0104.DGN

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. BB0104							46	88

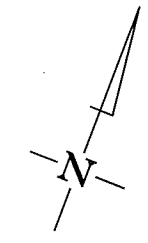
② PLAN SHEETS



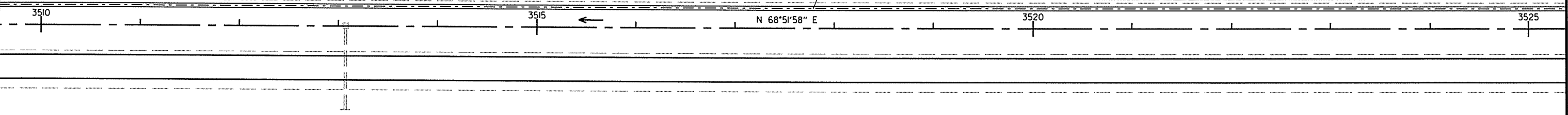
WRSF & CONCRETE
DITCH PAVING



STA 3507+13 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 4'-0" X H = 2'-10" WITH
24" X 84" C.M. PIPE OUTLET
UNDER RT. LANE
RETAIN & CULVERT REHABILITATION



WRSF & CONCRETE
DITCH PAVING



STA 3513+06 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 4'-0" X H = 2'-10" WITH
24" X 84" C.M. PIPE OUTLET
UNDER RT. LANE
RETAIN & CULVERT REHABILITATION

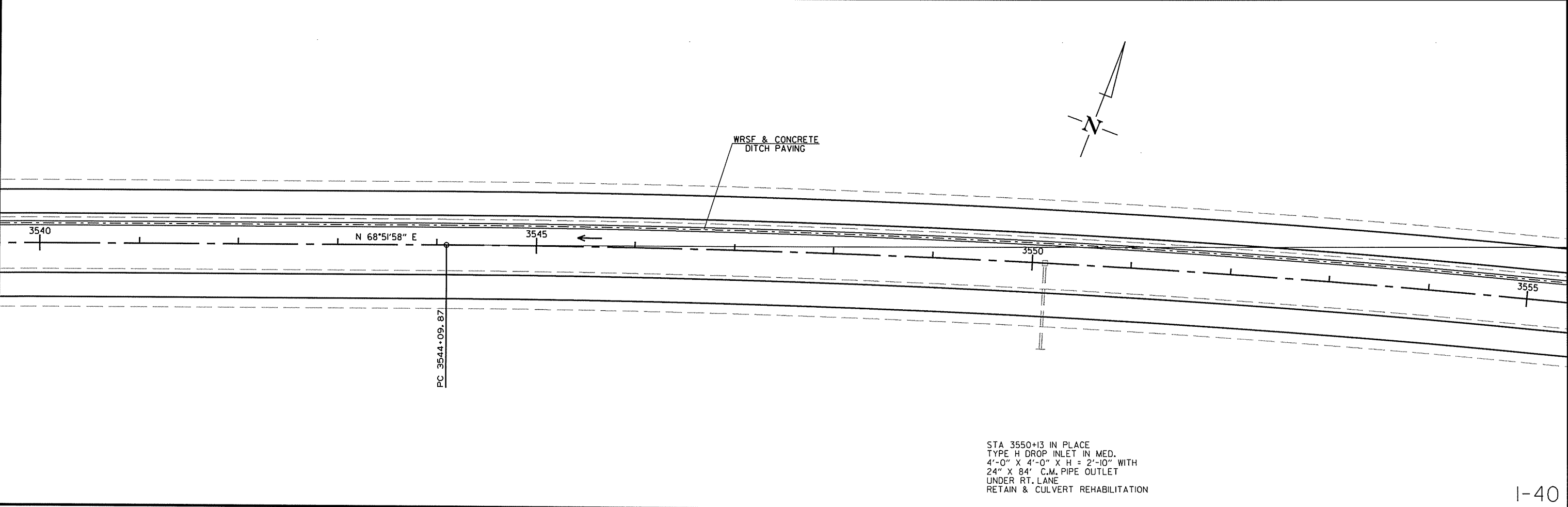
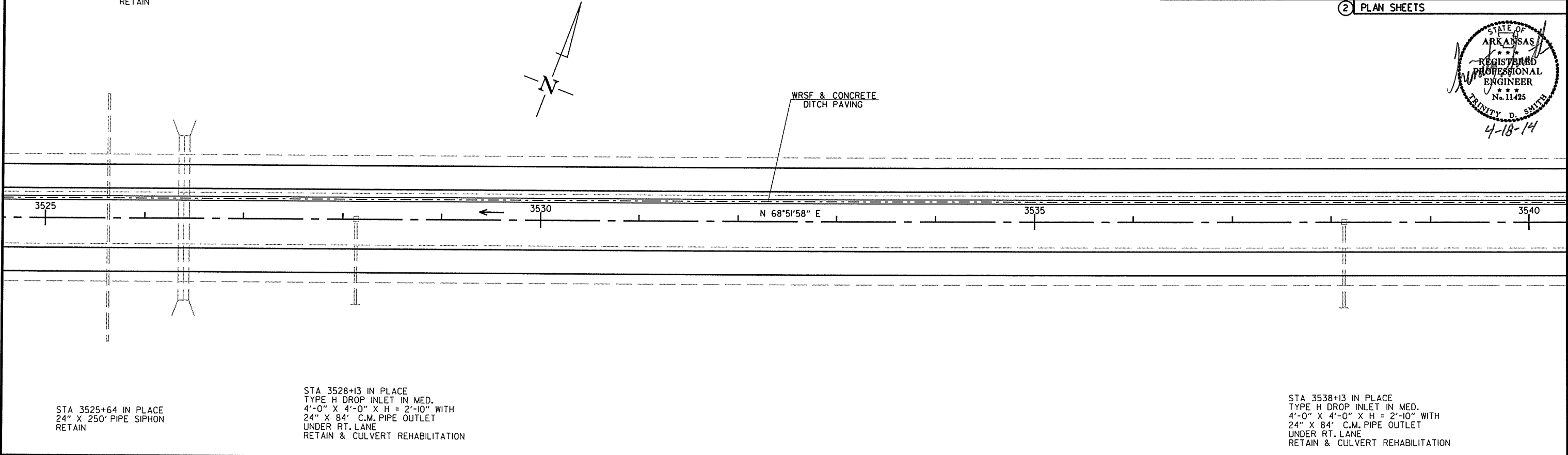
4/16/2014

RB0104.DGN

STA 3526+39 IN PLACE
 DBL. 5' X 5' X 166' R.C. BOX CULV'T.
 D.A. = 1200 AC., C= 0.3
 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.	BBD104		47	88

2 PLAN SHEETS

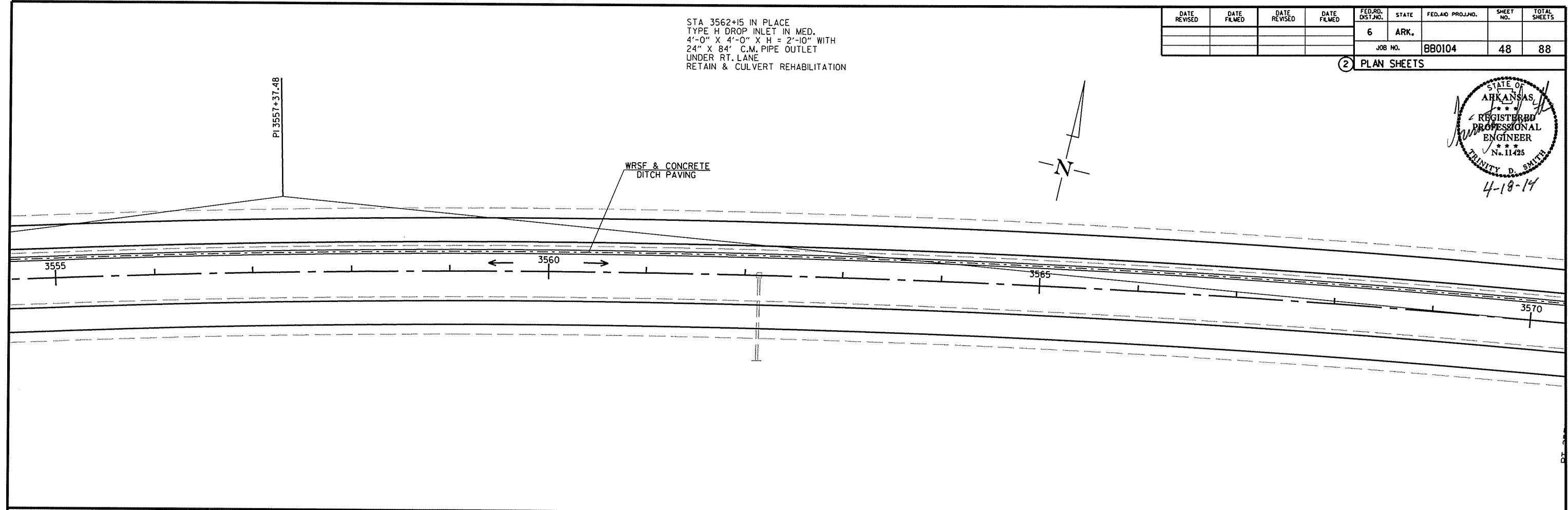
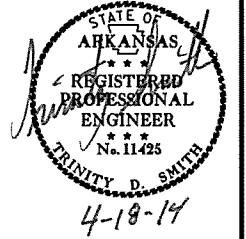


4/16/2014
RBB0104.DGN

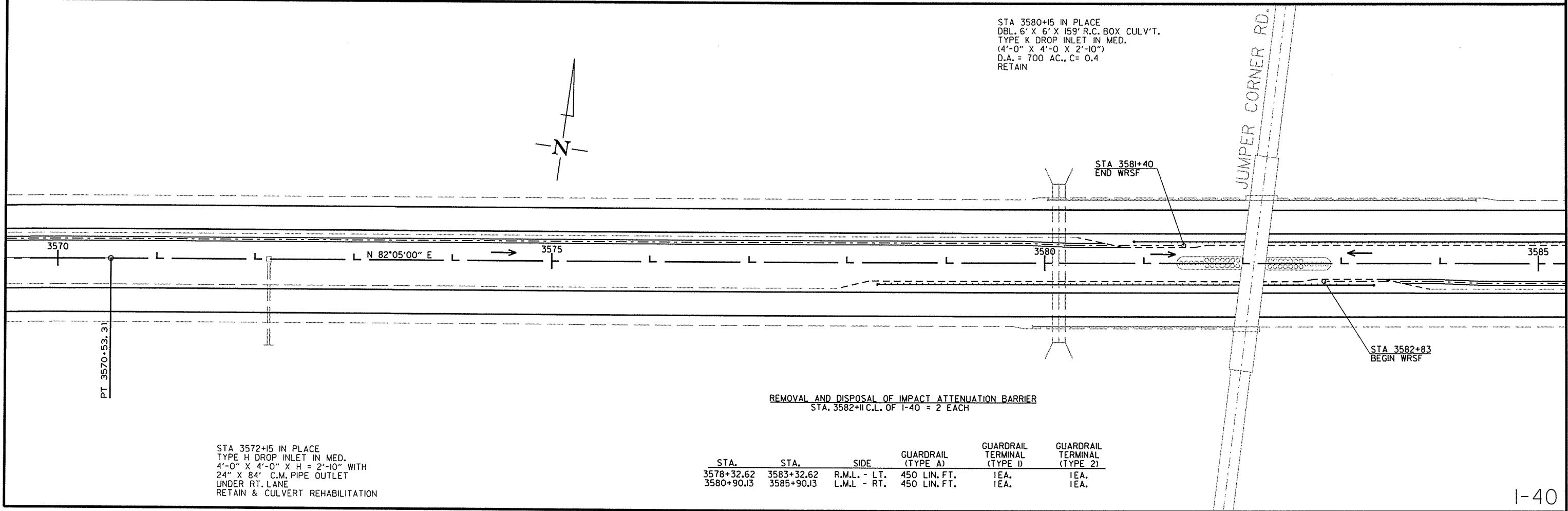
STA 3562+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 84" C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

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.	BB0104		48	88

2 PLAN SHEETS



STA 3580+15 IN PLACE
 DBL. 6' X 6' X 159' R.C. BOX CULV'T.
 TYPE K DROP INLET IN MED.
 (4'-0" X 4'-0" X 2'-10")
 D.A. = 700 AC., C = 0.4
 RETAIN



STA 3572+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 84" C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
3578+32.62	3583+32.62	R.M.L. - LT.	450 LIN. FT.	IEA.	IEA.
3580+90.13	3585+90.13	L.M.L. - RT.	450 LIN. FT.	IEA.	IEA.

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STA 3588+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 84" C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

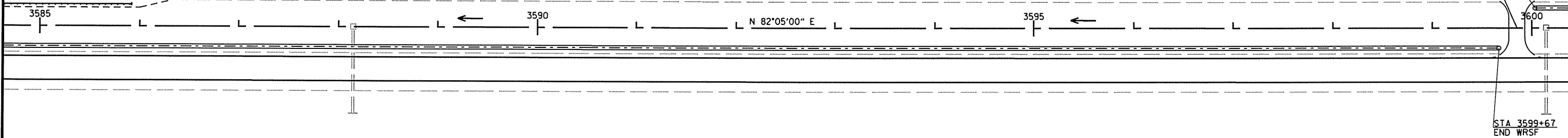
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0104							49	88

2 PLAN SHEETS



STA. 3599+85
 CONSTRUCT MEDIAN CROSSOVER

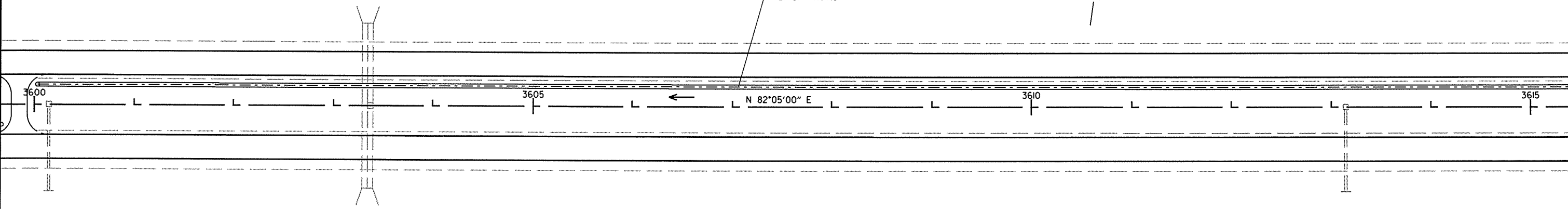
STA 3603+03
 BEGIN WRSF



STA 3599+67
 END WRSF

STA 3600+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 84" C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

WRSF & CONCRETE
 DITCH PAVING



STA 3603+35 IN PLACE
 DBL. 5' X 4' X 165' R.C. BOX CULV'T.
 TYPE K DROP INLET IN MED.
 (4'-0" X 4'-0" X 0'-10")
 D.A. = 400 AC., C = 0.4
 RETAIN

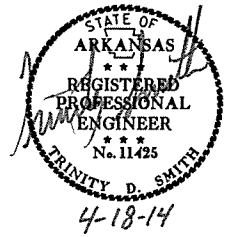
STA 3613+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 82" C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

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RB0104.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. BB0104							50	88

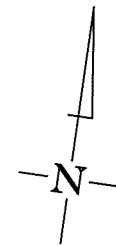
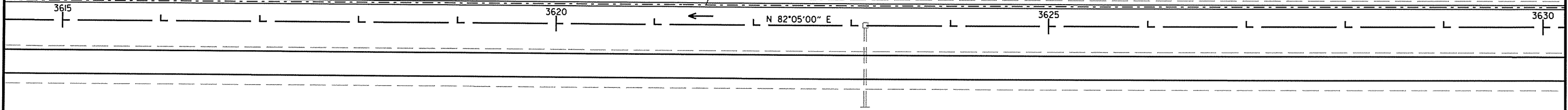
② PLAN SHEETS



STA 3623+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 80' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

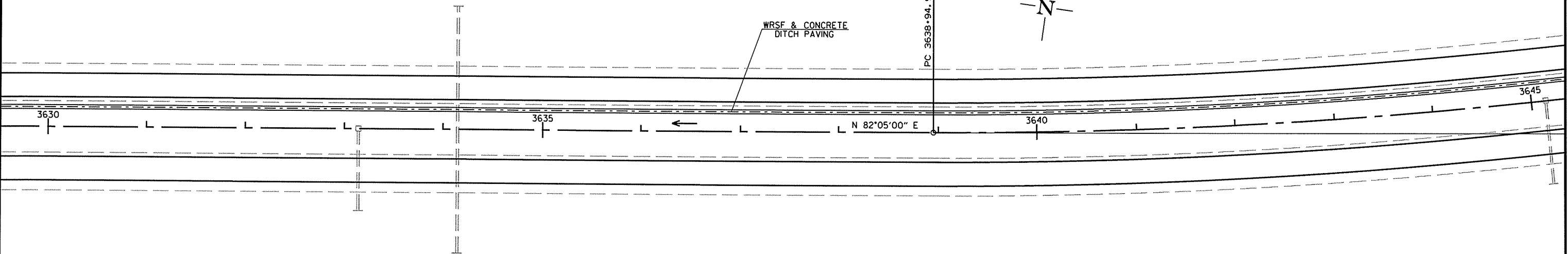


WRSF & CONCRETE
 DITCH PAVING



WRSF & CONCRETE
 DITCH PAVING

PC 3638+94.95



STA 3633+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 80' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3634+15 IN PLACE
 24" X 250' C.M. PIPE CULVERT
 RETAIN & CULVERT REHABILITATION

4/16/2014

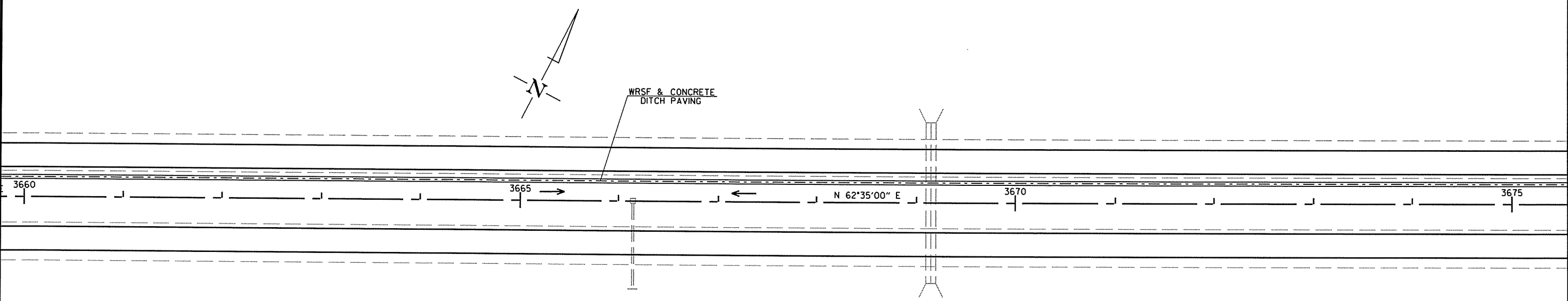
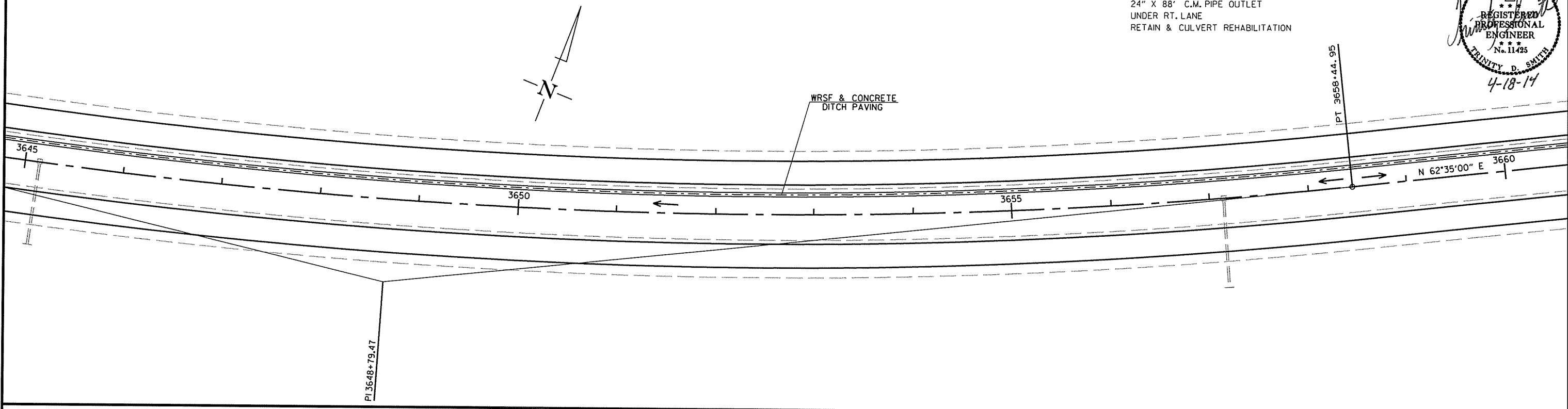
RB0104.DCN

STA 3645+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 82' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

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.							BB0104	51	88

② PLAN SHEETS

STA 3657+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 88' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION



STA 3666+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3669+15 IN PLACE
 5' X 5' X 162' R.C. BOX CULV'T.
 D.A. = 600 AC., C= 0.4
 RETAIN

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RB0104.DGN

STA 3677+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

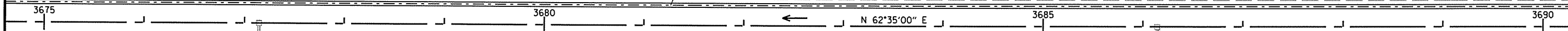
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
							JOB NO. BB0104	52	88

2 PLAN SHEETS

STA 3686+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION



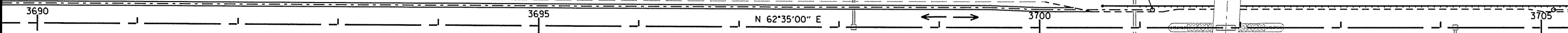
WRSF & CONCRETE
 DITCH PAVING



REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
 STA. 3701+86 C.L. OF I-40 = 2 EACH

STA 3701+13
 END WRSF

N. MAIN ST.



STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
3698+08.90	3703+08.90	R.M.L. - LT.	450 LIN. FT.	IEA.	IEA.
3700+62.57	3705+62.57	L.M.L. - RT.	450 LIN. FT.	IEA.	IEA.

STA 3698+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER LT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3700+95 IN PLACE
 24" X 168' C.M. PIPE CULVERT
 RETAIN & CULVERT REHABILITATION

STA 3704+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

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RB0104.DGN

STA 3708+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 5'-6" X H = 4'-6" WITH
 36" X 200' C.M. PIPE CULVERT
 RETAIN & CULVERT REHABILITATION

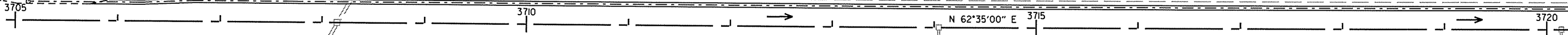
STA 3714+05 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 92' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

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.	BB0104	53

② PLAN SHEETS



STA. 3705+12
 BEGIN WRSF



RAMP-2
 STA 3707+61 IN PLACE
 36" X 56' PIPE CULVERT
 RETAIN

WRSF & CONCRETE
 DITCH PAVING



STA 3720+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-4" WITH
 24" X 110' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3732+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-4" WITH
 24" X 122' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

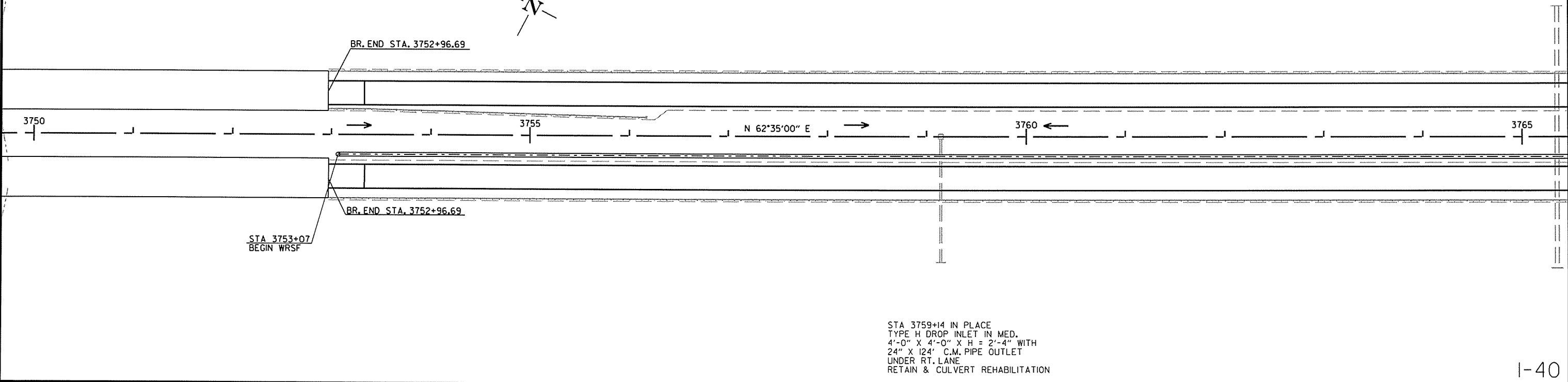
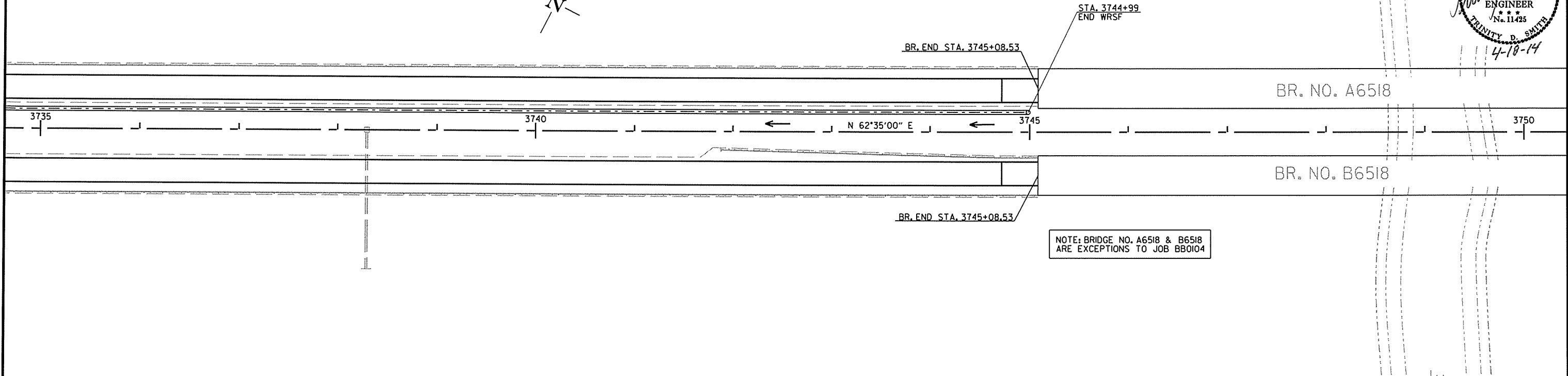
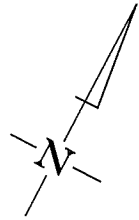
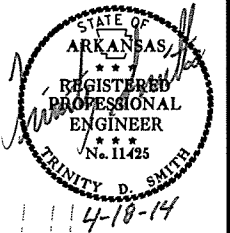
4/16/2014

RB0104.DGN

STA 3738+30 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-4" WITH
 24" X 138" C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

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. BB0104	54 88

2 PLAN SHEETS



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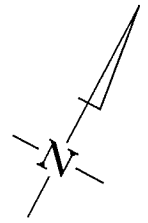
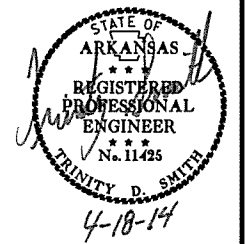
RB0104.DGN

STA 3765+36 IN PLACE
 48" X 264' C.M. PIPE CULVERT
 RETAIN & CULVERT REHABILITATION

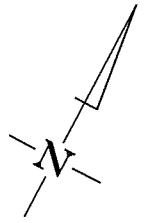
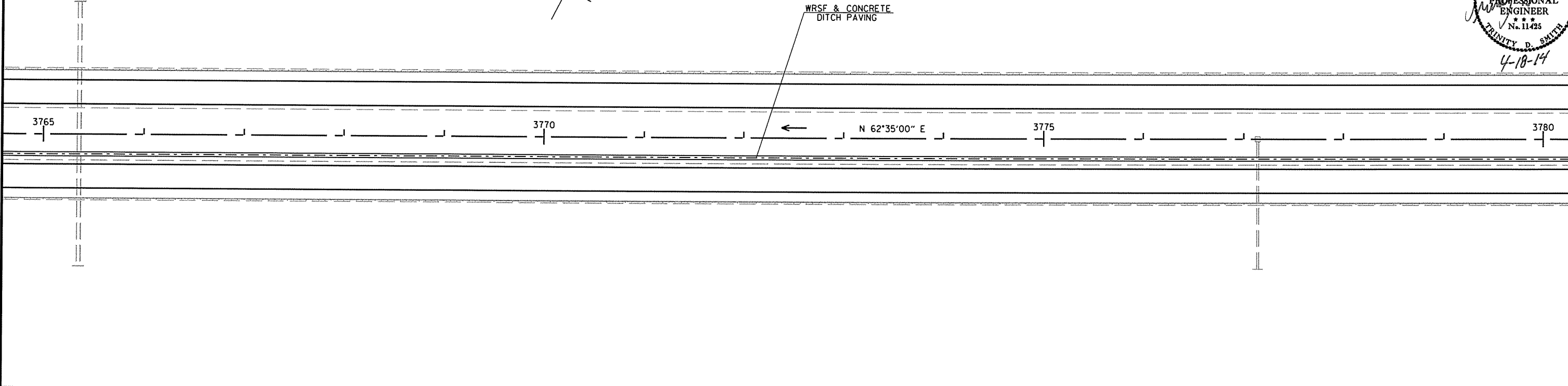
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0104							55	88

② PLAN SHEETS

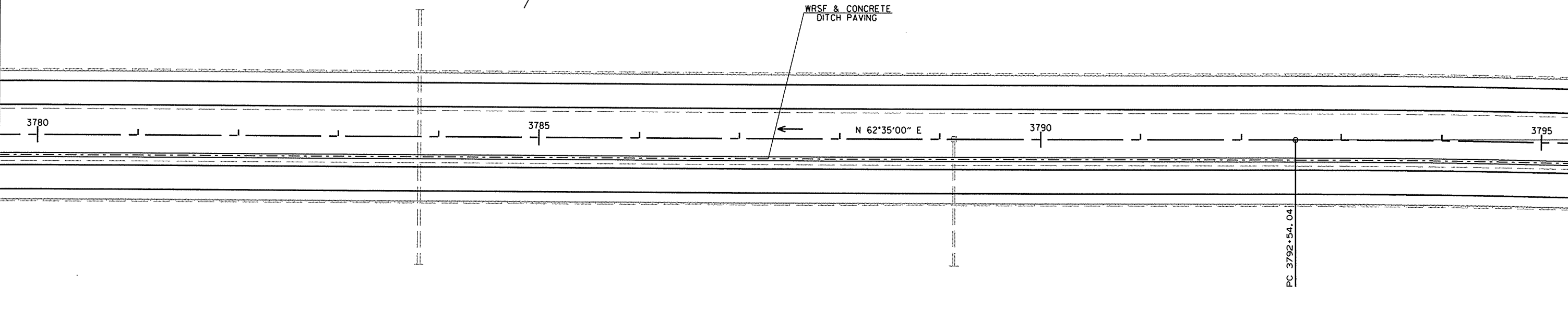
STA 3777+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-4" WITH
 18" X 128' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION



WRSF & CONCRETE
 DITCH PAVING



WRSF & CONCRETE
 DITCH PAVING



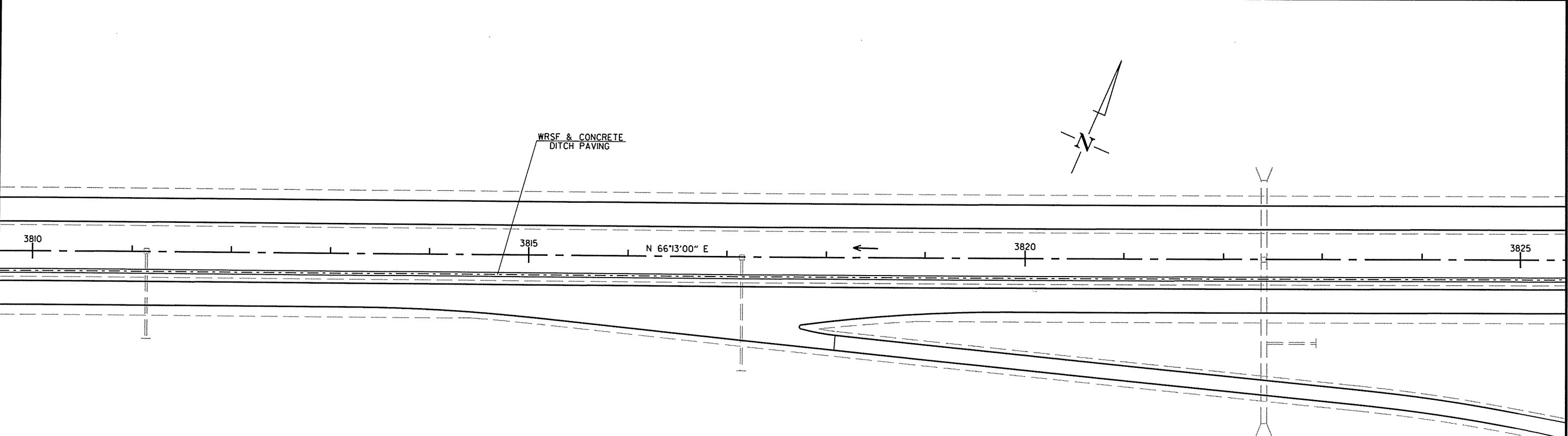
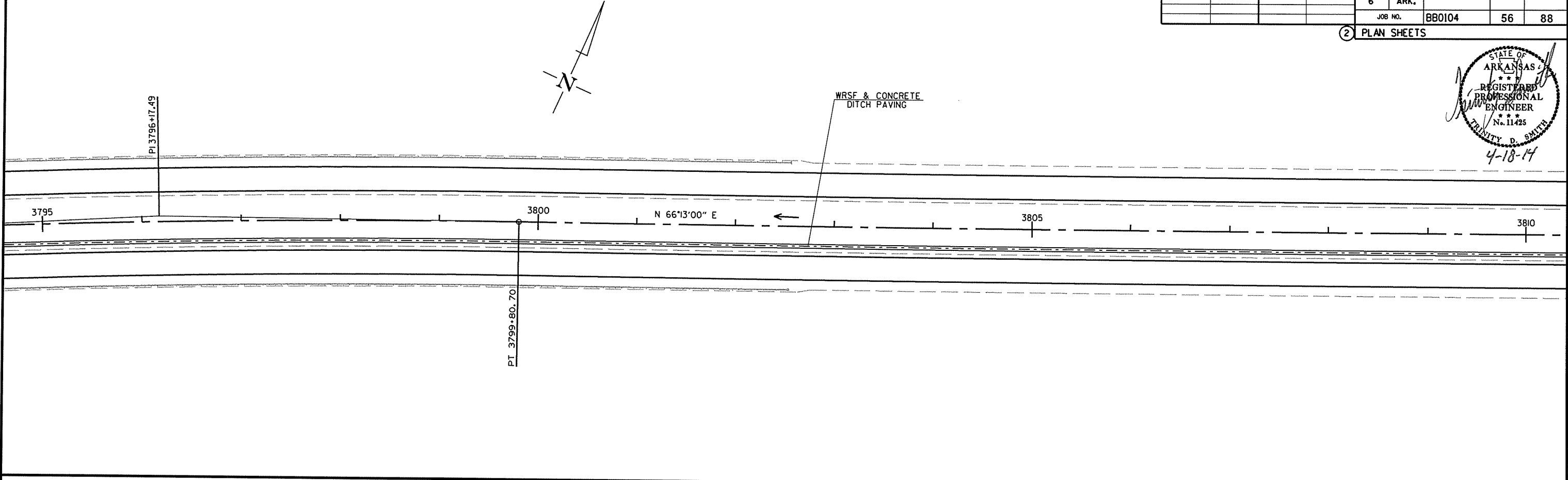
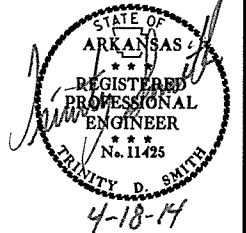
STA 3783+81 IN PLACE
 36" X 254' C.M. PIPE CULVERT
 RETAIN & CULVERT REHABILITATION

STA 3789+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-4" WITH
 18" X 124' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

4/16/2014
 RB0104.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.	BB0104		56	88

2 PLAN SHEETS



STA 3811+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3817+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3822+41 IN PLACE
 6' X 4' X 245' R.C. BOX CULVERT
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 0'-10" WITH
 D.A. 225 AC., C=0.4
 RETAIN

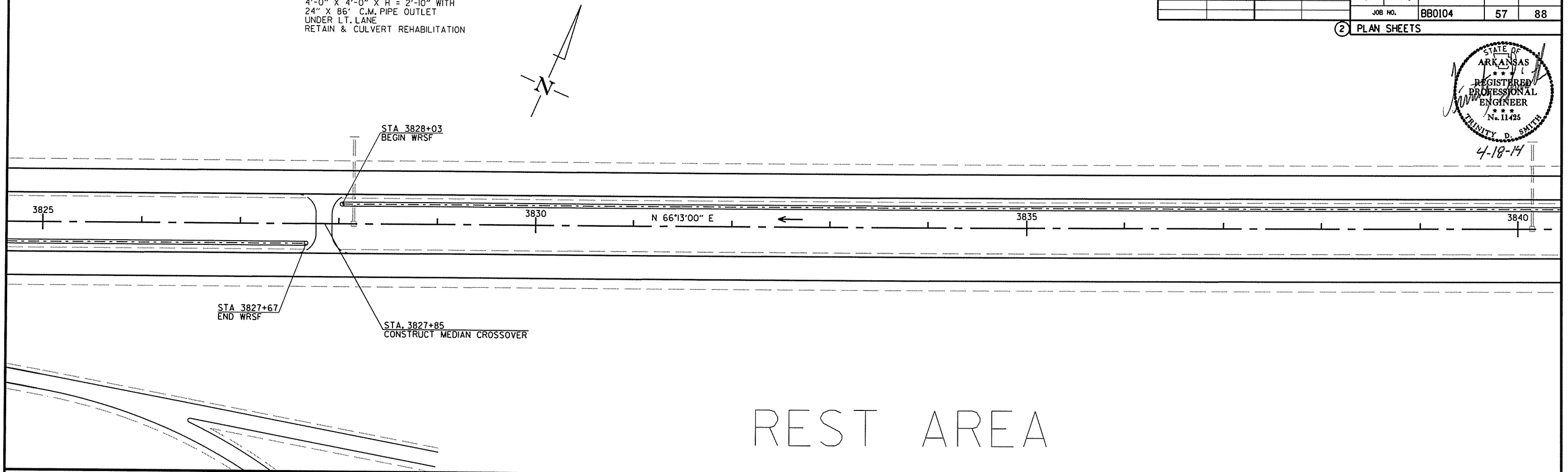
4/16/2014

RB0104.DGN

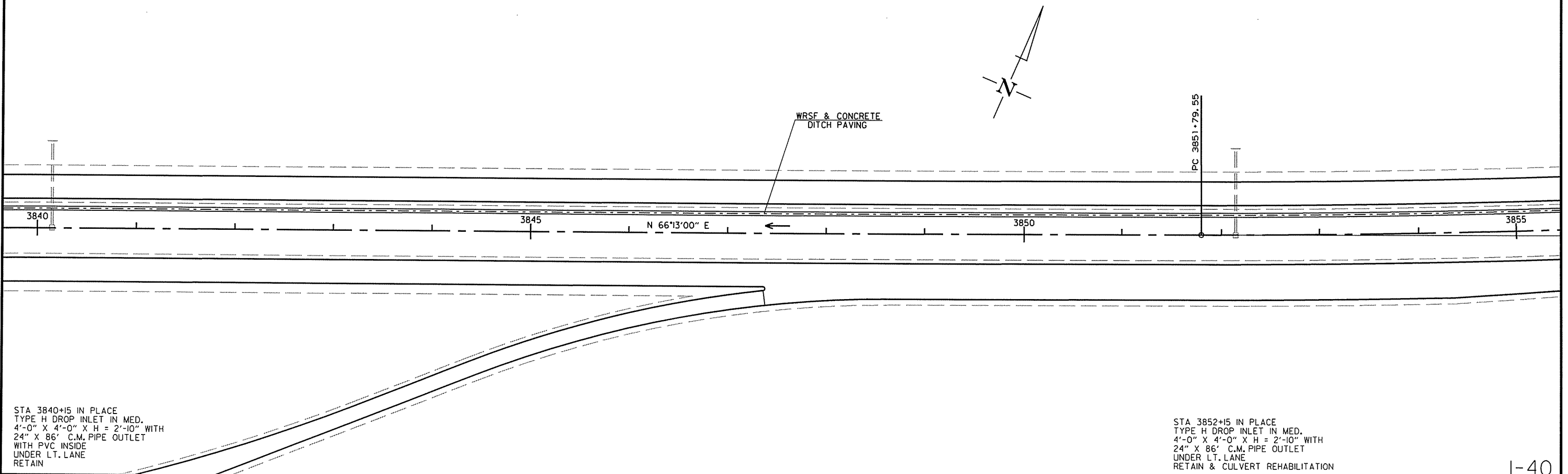
STA 3828+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER LT. LANE
 RETAIN & CULVERT REHABILITATION

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.	BB0104	57 88

2 PLAN SHEETS



REST AREA



STA 3840+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 WITH PVC INSIDE
 UNDER LT. LANE
 RETAIN

STA 3852+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 2'-10" WITH
 24" X 86' C.M. PIPE OUTLET
 UNDER LT. LANE
 RETAIN & CULVERT REHABILITATION

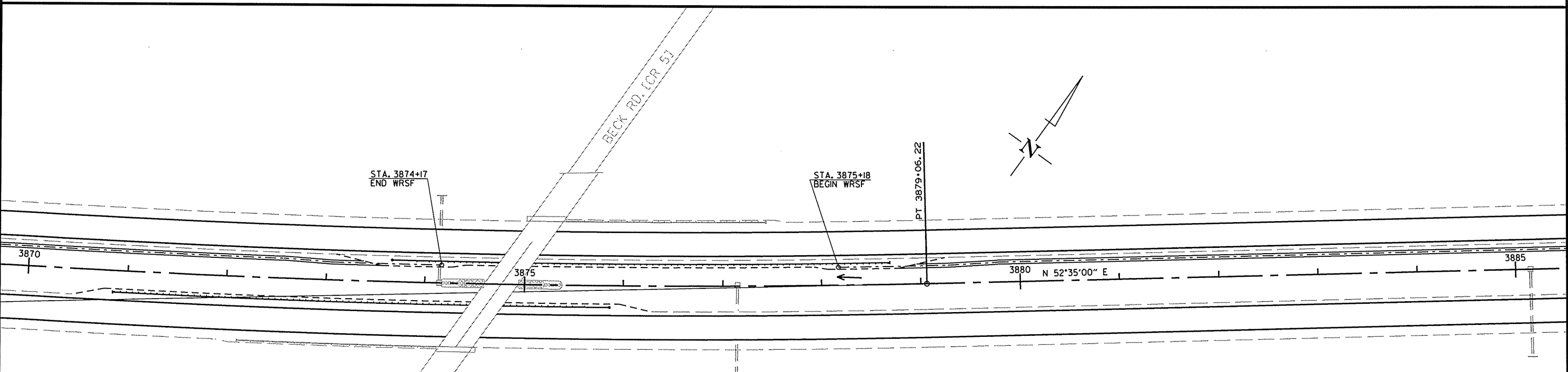
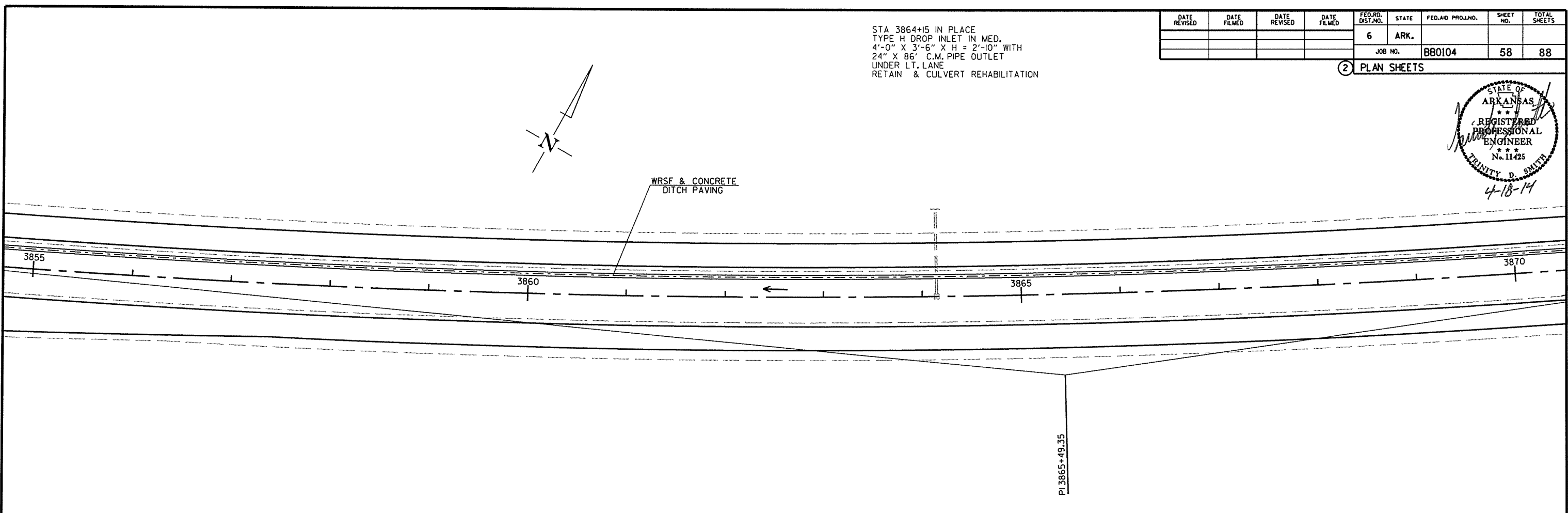
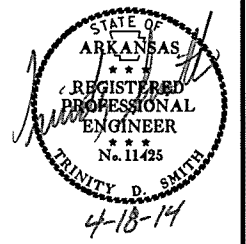
4/16/2014

RB0104.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. BB0104							58	88

STA 3864+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 2'-10" WITH
 24" X 86" C.M. PIPE OUTLET
 UNDER LT. LANE
 RETAIN & CULVERT REHABILITATION

2 PLAN SHEETS



REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
 STA. 3874+77 C.L. OF I-40 = 2 EACH

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
3870+87.06	3875+87.06	R.M.L. - LT.	450 LIN. FT.	IEA.	IEA.
3873+66.61	3878+66.61	L.M.L. - RT.	450 LIN. FT.	IEA.	IEA.

STA 3874+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 2'-10" WITH
 24" X 84" C.M. PIPE OUTLET
 UNDER LT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3877+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88" R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN

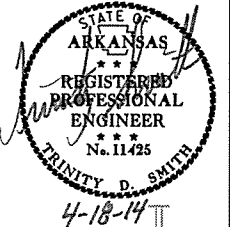
STA 3885+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88" R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN

4/16/2014

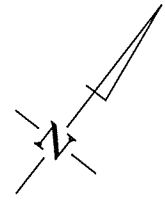
RB0104.DGN

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.	BB0104	59 88

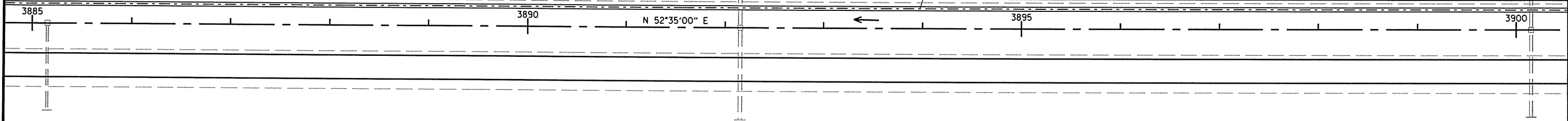
2 PLAN SHEETS



STA 3892+15 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 5'-0" X H = 5'-0" WITH
48" X 84' R.C. PIPE INLET &
48" X 88' R.C. PIPE OUTLET
RETAIN

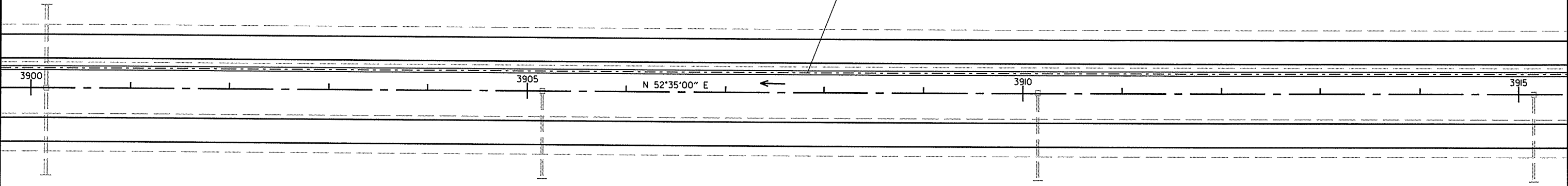


WRSF & CONCRETE
DITCH PAVING



STA 3900+15 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 4'-6" X H = 4'-6" WITH
48" X 84' R.C. PIPE INLET &
48" X 88' R.C. PIPE OUTLET
RETAIN

WRSF & CONCRETE
DITCH PAVING



STA 3905+15 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 3'-6" X H = 3'-6" WITH
24" X 88' R.C. PIPE OUTLET
UNDER RT. LANE
RETAIN

STA 3910+15 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 3'-6" X H = 3'-6" WITH
24" X 88' R.C. PIPE OUTLET
UNDER RT. LANE
RETAIN

STA 3915+15 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 3'-6" X H = 3'-6" WITH
24" X 88' R.C. PIPE OUTLET
UNDER RT. LANE
RETAIN

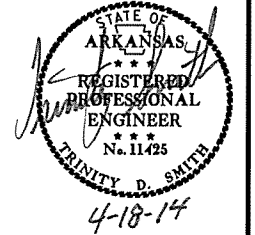
4/16/2014

RB0104.DGN

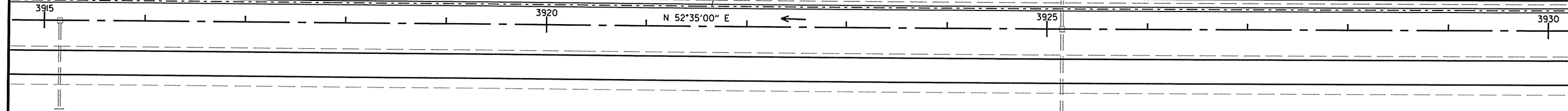
STA 3925+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 4'-0" WITH
 30" X 84" R.C. PIPE INLET &
 30" X 88" R.C. PIPE OUTLET
 RETAIN

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.						BB0104	60	88

② PLAN SHEETS



WRSF & CONCRETE
 DITCH PAVING



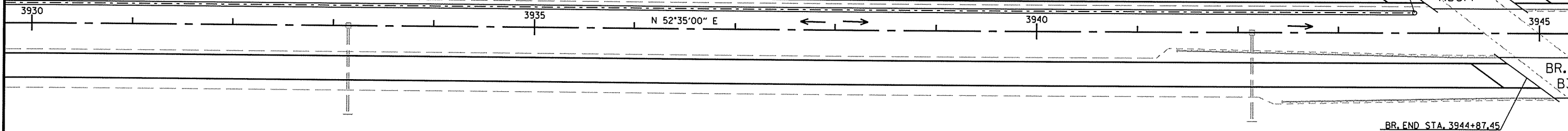
STA 3943+66.12 BR. END
 EXISTING 90.0' BRIDGE A3614
 40'-0" CLEAR ROADWAY
 STA. 3944+56.12 BR. END
 REHABILITATE BRIDGE DECK-
 HYDRODEMOLITION

STA 3943+75
 END WRSF

BR. END STA. 3943+66.12

BR. END STA. 3944+56.12

BR. NO.
 A3614



BR. NO.
 B3614

BR. END STA. 3944+87.45

STA 3944+87.45 BR. END
 EXISTING 90.0' BRIDGE B3614
 40'-0" CLEAR ROADWAY
 STA. 3945+77.45 BR. END
 REHABILITATE BRIDGE DECK-
 HYDRODEMOLITION

STA 3933+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88" R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN

STA 3942+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88" R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN

4/16/2014

RB0104.DGN

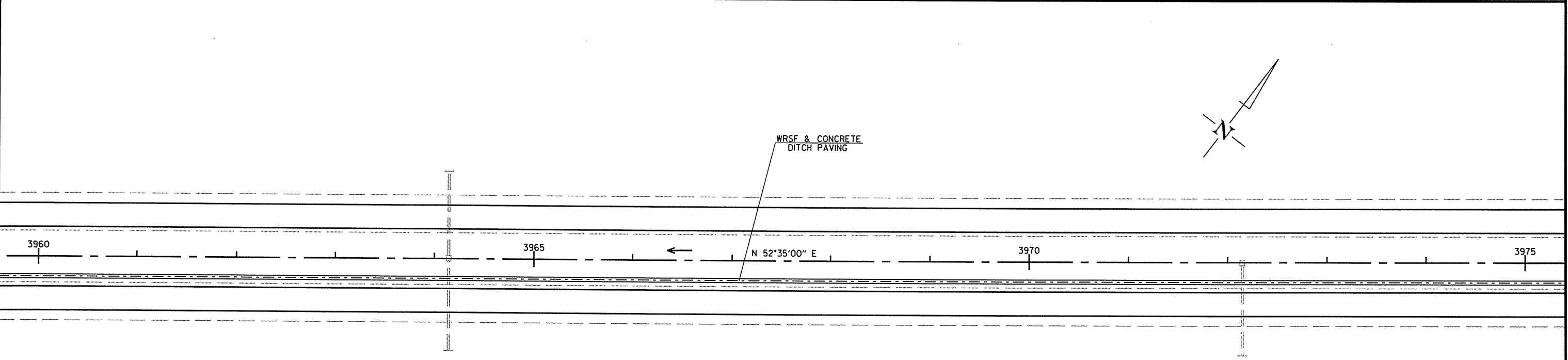
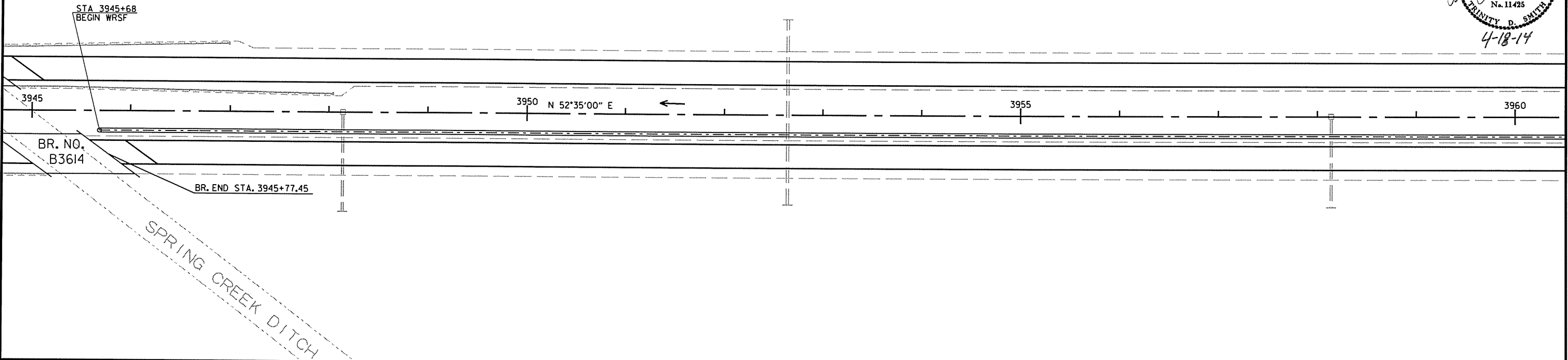
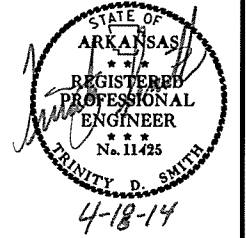
STA 3948+14 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-3" X 3'-6" X H = 3'-6" WITH
 24" X 92' R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN & CULVERT REHABILITATION

STA 3952+65 IN PLACE
 30" X 182' R.C. PIPE 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.				
JOB NO.							BB0104	61	88

2 PLAN SHEETS

STA 3958+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 92' R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN



STA 3964+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-6" X H = 4'-0" WITH
 24" X 88' C.M. PIPE INLET &
 24" X 92' C.M. PIPE OUTLET
 RETAIN & CULVERT REHABILITATION

STA 3972+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88' R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN

4/16/2014

RB0104.DGN

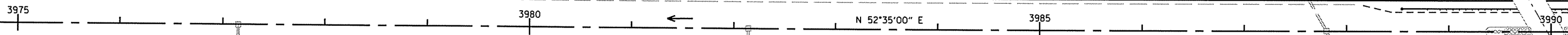
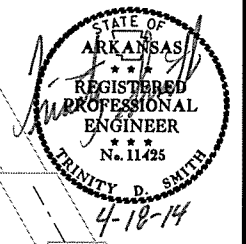
STA 3977+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88" R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN

STA 3982+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88" R.C. PIPE OUTLET
 UNDER RT. LANE
 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. BB0104							62	88

2 PLAN SHEETS

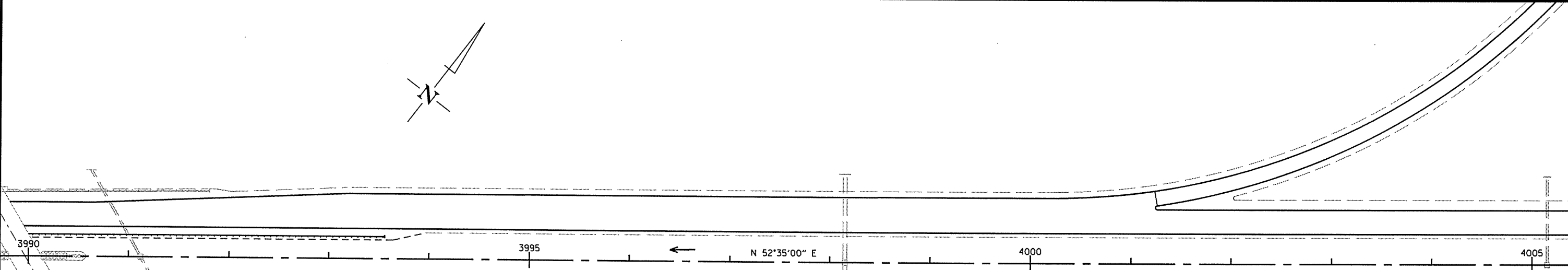
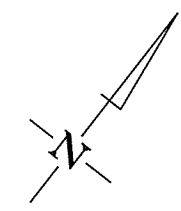
STA 3987+81 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 3'-6" WITH
 24" X 96" R.C. PIPE INLET
 (30° RT. FWD. SKEW) &
 24" X 100" R.C. PIPE OUTLET
 (30° RT. FWD. SKEW)
 RETAIN



STA. 3986+89
 END WRSF

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
 STA. 3989+96 C.L. OF I-40 = 2 EACH

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
3986+38.81	3991+38.81	R.M.L. - LT.	450 LIN. FT.	IEA.	IEA.
3988+54.17	3993+54.17	L.M.L. - RT.	450 LIN. FT.	IEA.	IEA.



STA. 3990+89
 BEGIN WRSF

STA 3991+12 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 4'-0" X H = 3'-6" WITH
 24" X 96" R.C. PIPE INLET
 (30° RT. FWD. SKEW) &
 24" X 100" R.C. PIPE OUTLET
 (30° RT. FWD. SKEW)
 RETAIN

STA 3998+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 5'-6" X H = 5'-6" WITH
 48" X 84" R.C. PIPE INLET &
 48" X 88" R.C. PIPE OUTLET
 RETAIN

STA 4005+15 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 88" R.C. PIPE OUTLET
 UNDER LT. LANE
 RETAIN

4/16/2014

RB0104.DGN

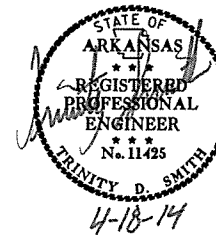
STA 4009+65 IN PLACE
QUINTUPLE 12' X 6' X 172' R.C. BOX CULV'T.
RETAIN

STA 4011+98 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 3'-6" X H = 3'-6" WITH
24" X 88' R.C. PIPE OUTLET
UNDER LT. LANE
RETAIN

STA 4015+98 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 3'-6" X H = 3'-6" WITH
24" X 88' R.C. PIPE OUTLET
UNDER LT. LANE
RETAIN

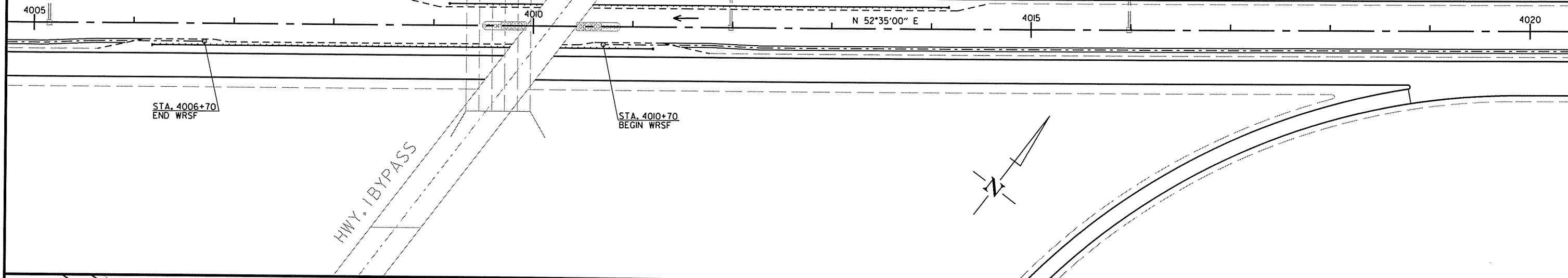
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				6	ARK.			
JOB NO. BB0104							63	88

2 PLAN SHEETS



STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
4006+20.25	4011+20.25	R.M.L. - LT.	450 LIN. FT.	IEA.	IEA.
4009+15.88	4014+15.88	L.M.L. - RT.	450 LIN. FT.	IEA.	IEA.

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
STA. 4010+18 C.L. OF I-40 = 2 EACH



STA. 4006+70
END WRSF

STA. 4010+70
BEGIN WRSF

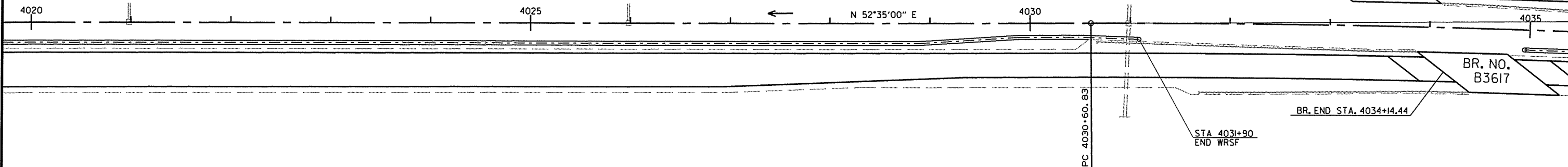
HWY. BYPASS

STA 4032+95.82 BR. END
EXISTING 90.0' BRIDGE A3617
40'-0" CLEAR ROADWAY
STA. 4033+85.82 BR. END
REHABILITATE BRIDGE DECK-
HYDRODEMOLITION

BR. END STA. 4032+95.82

BR. END STA. 4033+85.82

BR. NO.
A3617



BR. NO.
B3617

BR. END STA. 4034+14.44

STA 4031+90
END WRSF

PC 4030+60.83

STA 4020+98 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 3'-6" X H = 3'-6" WITH
24" X 92' R.C. PIPE OUTLET
UNDER LT. LANE
RETAIN

STA 4025+98 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 3'-6" X H = 3'-6" WITH
24" X 92' R.C. PIPE OUTLET
UNDER LT. LANE
RETAIN

STA 4030+98 IN PLACE
TYPE H DROP INLET IN MED.
4'-0" X 4'-6" X H = 5'-0" WITH
36" X 88' R.C. PIPE INLET &
36" X 92' R.C. PIPE OUTLET
RETAIN

STA 4034+14.44 BR. END
EXISTING 90.0' BRIDGE B3617
40'-0" CLEAR ROADWAY
STA. 4035+04.44 BR. END
REHABILITATE BRIDGE DECK-
HYDRODEMOLITION

4/16/2014

RB0104.DCN

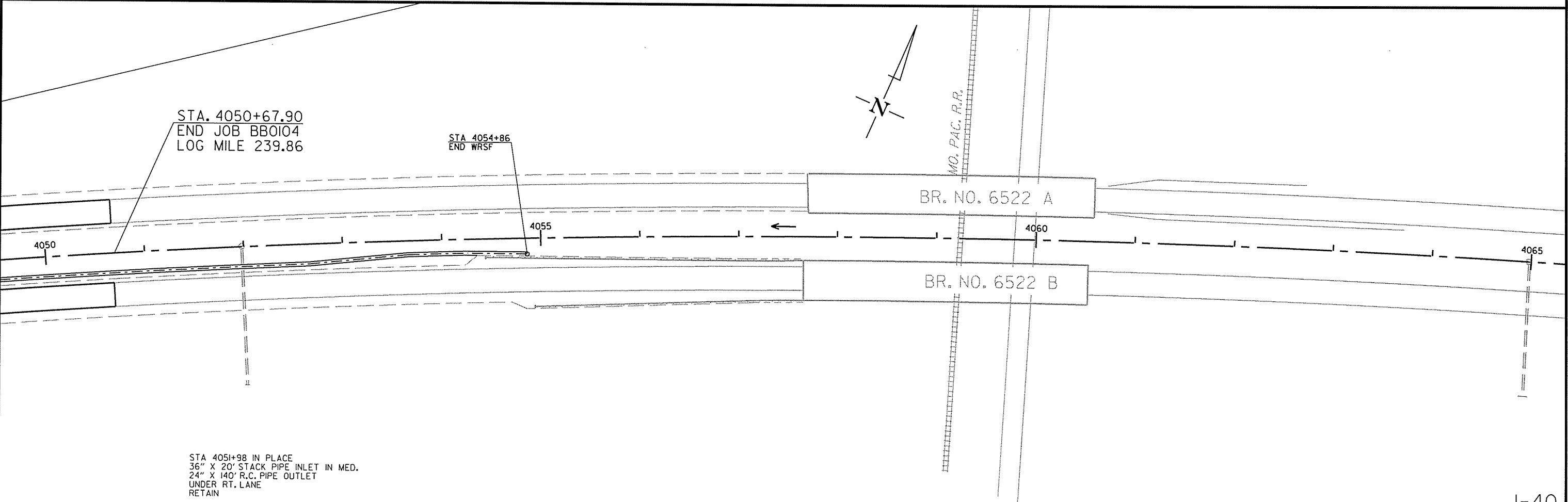
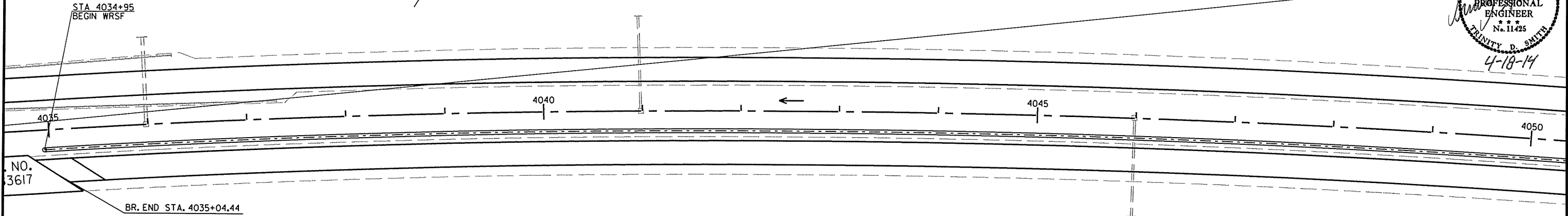
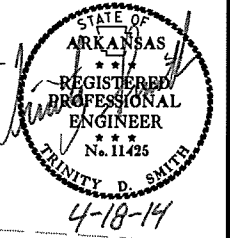
STA 4035+99 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 5'-6" WITH
 24" X 100' R.C. PIPE OUTLET
 UNDER LT. LANE
 RETAIN

STA 4040+99 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 3'-6" WITH
 24" X 96' R.C. PIPE OUTLET
 UNDER LT. LANE
 RETAIN

STA 4045+98 IN PLACE
 TYPE H DROP INLET IN MED.
 4'-0" X 3'-6" X H = 7'-6" WITH
 24" X 100' R.C. PIPE OUTLET
 UNDER RT. LANE
 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. BBO104	64 88

2 PLAN SHEETS



STA 4051+98 IN PLACE
 36" X 20' STACK PIPE INLET IN MED.
 24" X 140' R.C. PIPE OUTLET
 UNDER RT. LANE
 RETAIN

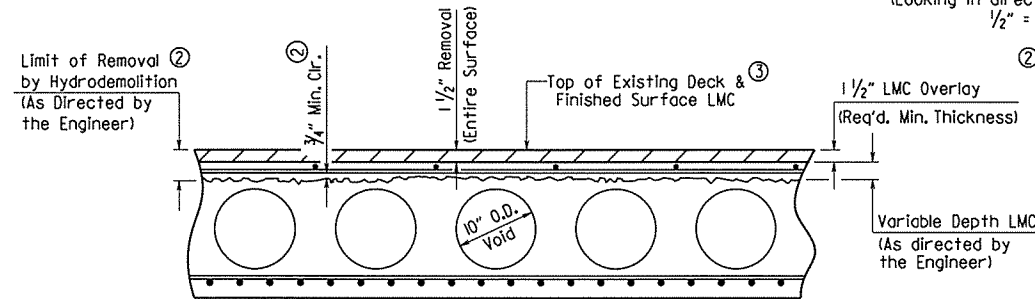
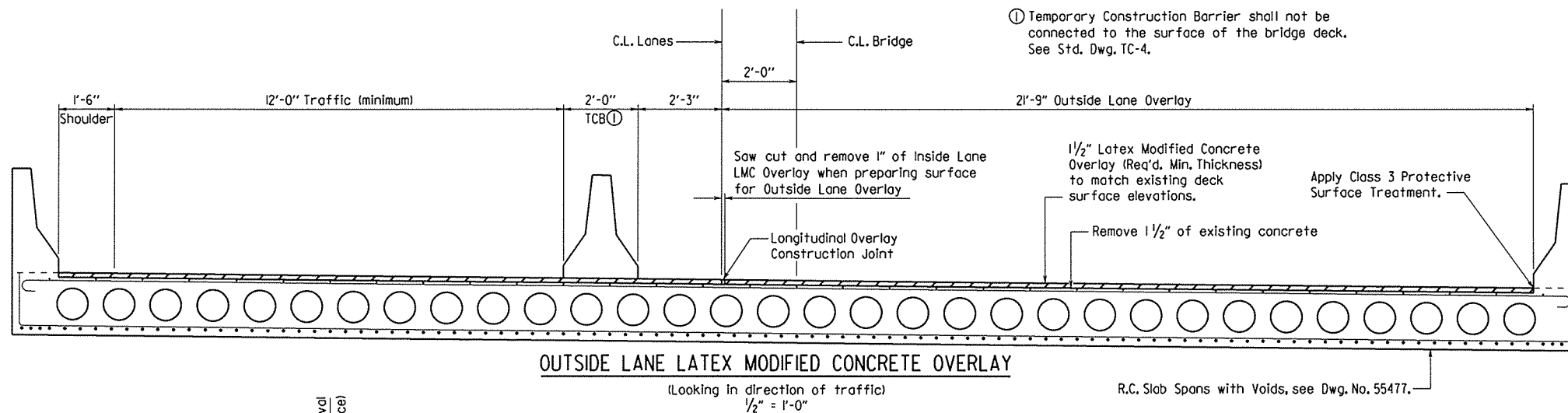
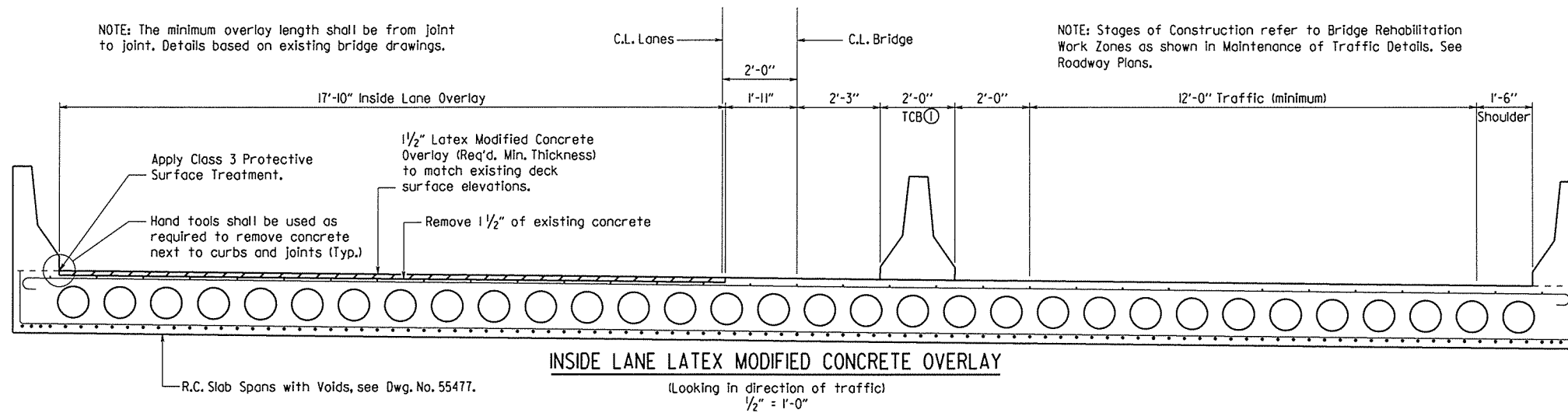
4/16/2014

RBB0104.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.		BBO104	65	88
				A&B3614, - LMC OVERLAY - 55472				
				A&B3617				

NOTE: The minimum overlay length shall be from joint to joint. Details based on existing bridge drawings.

NOTE: Stages of Construction refer to Bridge Rehabilitation Work Zones as shown in Maintenance of Traffic Details. See Roadway Plans.

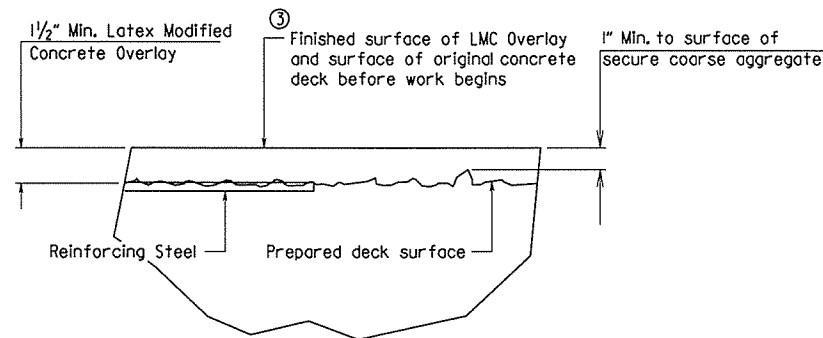


② Removal of unsound concrete beyond 1/2" below the original surface shall be at the direction of the Engineer. If the bond between existing concrete and the top mat of reinforcing steel is destroyed, then the concrete shall be removed to a minimum of 3/4" clearance around the bar. This removal shall be subsidiary to the Item SP Job BBO104 "Hydrodemolition."

③ Finished surface of LMC overlay shall match existing concrete deck surface unless increase is required to maintain minimum required LMC Overlay thickness or a minimum of 1/2" cover to reinforcing steel.

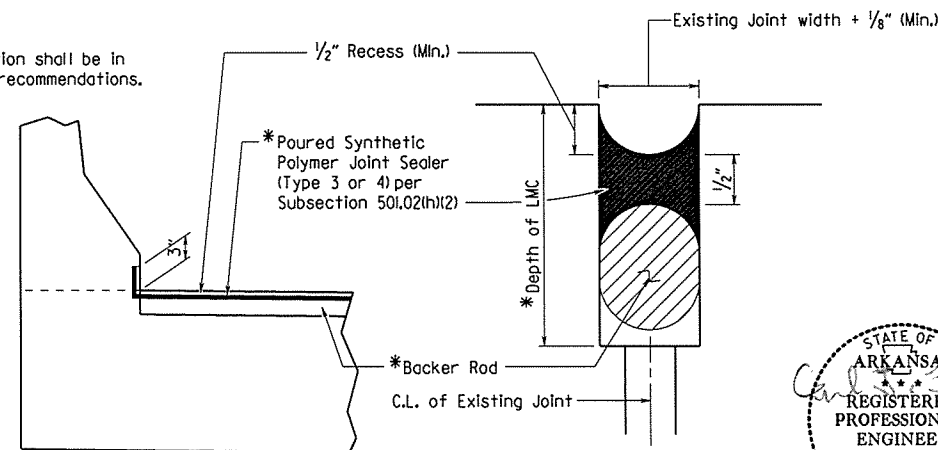
If the hydrodemolition equipment blows through the deck or into a deck void, that area shall be the responsibility of the Contractor and shall be repaired at the Contractor's expense. The Contractor shall provide a method of handling unexpected blow through of the deck or into a deck void.

DETAILS OF HYDRODEMOLITION AND LATEX MODIFIED CONCRETE OVERLAY
No Scale

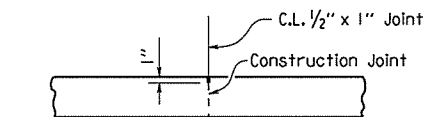


LMC OVERLAY TOLERANCE
No Scale

* Depth of joint and joint installation shall be in accordance with manufacturer's recommendations.



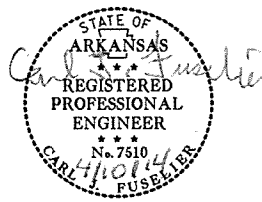
DETAILS OF TYPE A JOINT REHABILITATION
No Scale



Use 1/2" X 1" Type 3 or 4 Joint Sealer. See Subsections 501.02(h) and 501.05(i). Backer Rod shall not be installed. Joint Sealer shall be measured and paid for as LMC Overlay. Sealant must be gray or other color similar to concrete.

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



DETAILS OF LATEX MODIFIED CONCRETE OVERLAY
ROUTE 40 SEC. 51
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KWY DATE: 1/22/14 FILENAME: bbb0104_lmc.dgn
CHECKED BY: DATE: SCALE: AS NOTED
DESIGNED BY: DATE:
BRIDGE NO. A&B3614, A&B3617 DRAWING NO. 55472

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 2014, 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 equipment and/or materials on the subject bridges necessary for the completion of this work shall be subject to the provisions of Subsection 105.14. 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 entire area of the existing bridge deck shall receive hydrodemolition in accordance with the Special Provision Job BBO104 "Hydrodemolition" to a planned depth of 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 Special Provision Job BBO104 "Hydrodemolition". Prior to hydrodemolition, cold milling of the concrete deck to a maximum depth of 1" will be allowed unless there will be a conflict with the existing reinforcing.

LATEX MODIFIED CONCRETE OVERLAY: The entire area of the existing bridge deck shall receive a Latex Modified Concrete (LMC) Overlay to a planned depth of 1/2" below the existing bridge deck surface, in accordance with the Special Provision Job BBO104 "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 BBO104 "Latex Modified Concrete Overlay (1/2" Thick)". Areas of the existing bridge deck removed at the direction of the Engineer to a depth greater than 1/2" below the existing bridge deck surface shall be filled with LMC concurrent to the placement of the 1/2" LMC Overlay. This material shall be measured and paid for at the unit price bid for the item SP Job BBO104 "Latex Modified Concrete (Variable Depth)".

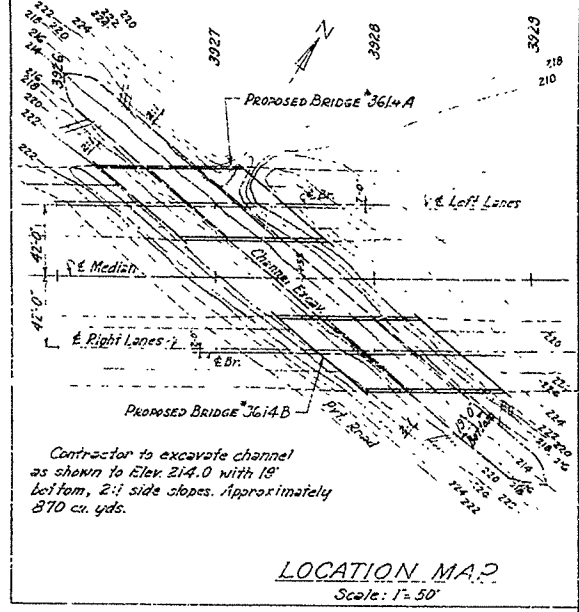
BRIDGE DECK: The LMC Overlay surface shall be given a grooved finish as specified for final finishing in Subsection 802.19 for Class 7 Grooved Bridge Roadway Surface Finish.

PROTECTIVE SURFACE TREATMENT: The longitudinal joint between the LMC 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 Special Provision Job BBO104 "Latex Modified Concrete Overlay". Transverse or longitudinal construction joints separating adjacent overlay placements shall be sealed in accordance with the Longitudinal Overlay Construction Joint Detail.

The roadway surface of the completed LMC Overlay shall be given a Class 1 Protective Surface Treatment as specified in Section 803.

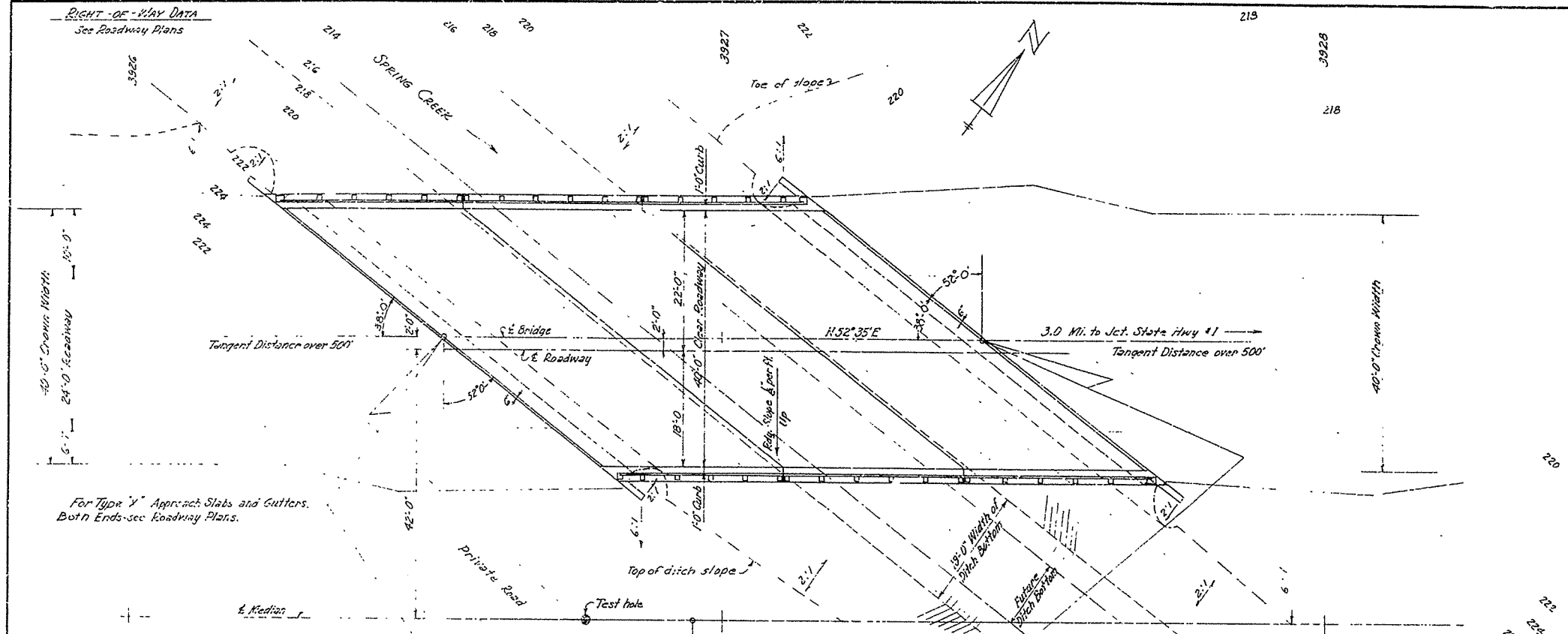
TRANSVERSE JOINT REHABILITATION: After the placement of the LMC Overlay, the existing transverse slab joints at the intermediate bents shall be given a Type A Joint Rehabilitation as specified in Section 509 and as shown in "Details of Type A Joint Rehabilitation".

FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.	BB0104	1616	88	
A3614 - LAYOUT - 55473				

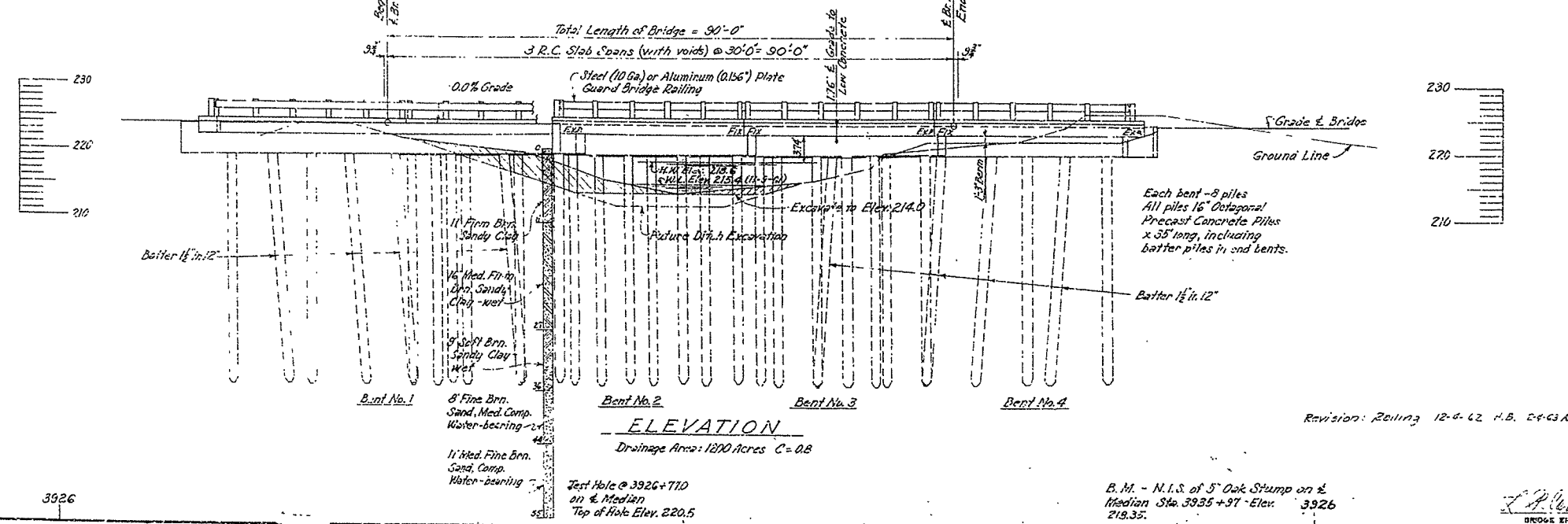
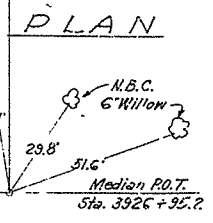


GENERAL NOTES

See Drawing No 12123 for General Notes and Specifications



M.B.C. 4' Gum
54.5'
Median P.O.T. Sta. 3924 + 01.0
35.5'
M.B.C. 3' Persimmon



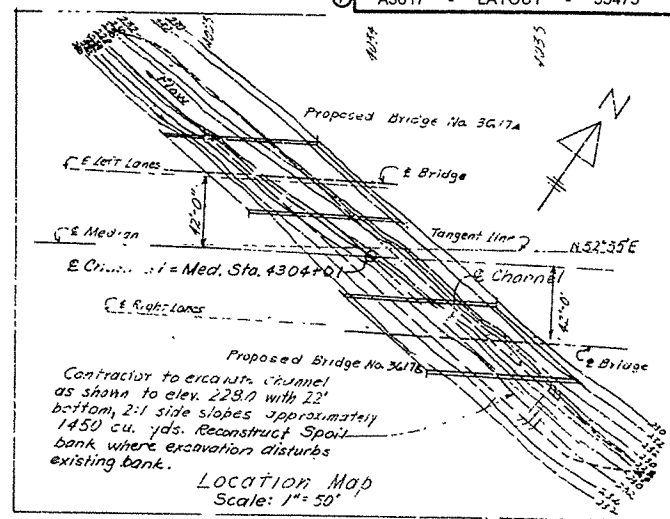
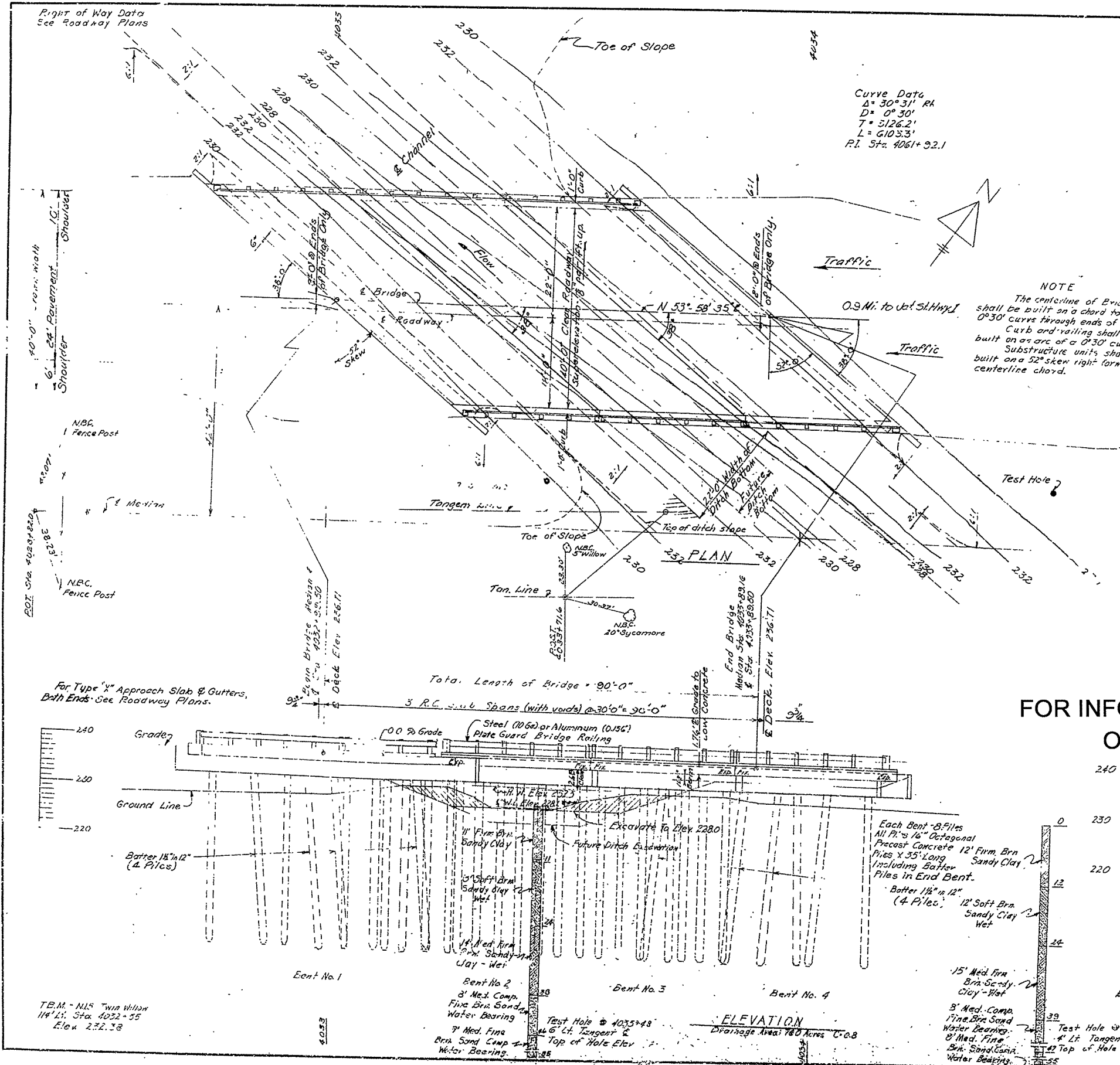
FOR INFORMATION ONLY
(LEFT LANES)
LAYOUT OF BRIDGE
OVER SPRING CREEK
BECKS ROAD - FORREST CITY

ST. FRANCIS COUNTY
INT. ROUTE 40 SEC. 5
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: A.T. DATE: 12-11-61
TRACED BY: DATE: DATE: 7-20-62
CHECKED BY: M.G. DATE: 7-20-62
BRIDGE NO. A3614 DRAWING NO. 55473

Revision: Rolling 12-6-62 H.B. 24-63 AT
B.M. - N.I.S. of 5" Oak Stump on E. Median Sta. 3935 + 97 - Elev. 219.35.
3926

FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.		68	88
JOB NO.		BBO104	68	88
A3617 - LAYOUT - 55475				



GENERAL NOTES

All concrete to be poured in the fall. Exposed soil to be chamfered 3/4" unless otherwise noted.

Oil piling shall be 16" octagonal precast concrete and shall be driven with an approved air, steam, or diesel hammer to a minimum bearing capacity of 36 tons per pile, and to a minimum penetration of 20 feet below the ground line. Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field. Drive one 40' test pile in Bent No. 2 or 3, 1/4 in Bridge No. 3617A and Bridge No. 3617B. Piles in End Bents shall be driven after embankment is in place.

For details of Bents, see Dwg. No. 12124
 For details of Precast Concrete Piles see Dwg. No. 2382.
 For details of R.C. Slab Spans, see Dwg. No. 5431D, except skew-angle is opposite hand.

FOR INFORMATION ONLY

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959, and designated Special Provisions.

DESIGN SPECIFICATIONS: ARS 110 1961
 Live Loading: H20-516 and Special Interstate Loading of 2-24000' axles spaced 4'-0" on center.

Unit Stresses:
 Class 5 Concrete $f'_c = 10,000$ psi
 Reinforcing Steel 20,000 psi

(LEFT LANES)
 LAYOUT OF BRIDGE OVER DRAINAGE DITCH
 BECKS ROAD - FOREST CITY

ST. FRANCIS COUNTY
 INT. ROUTE 40 SEC. 5

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

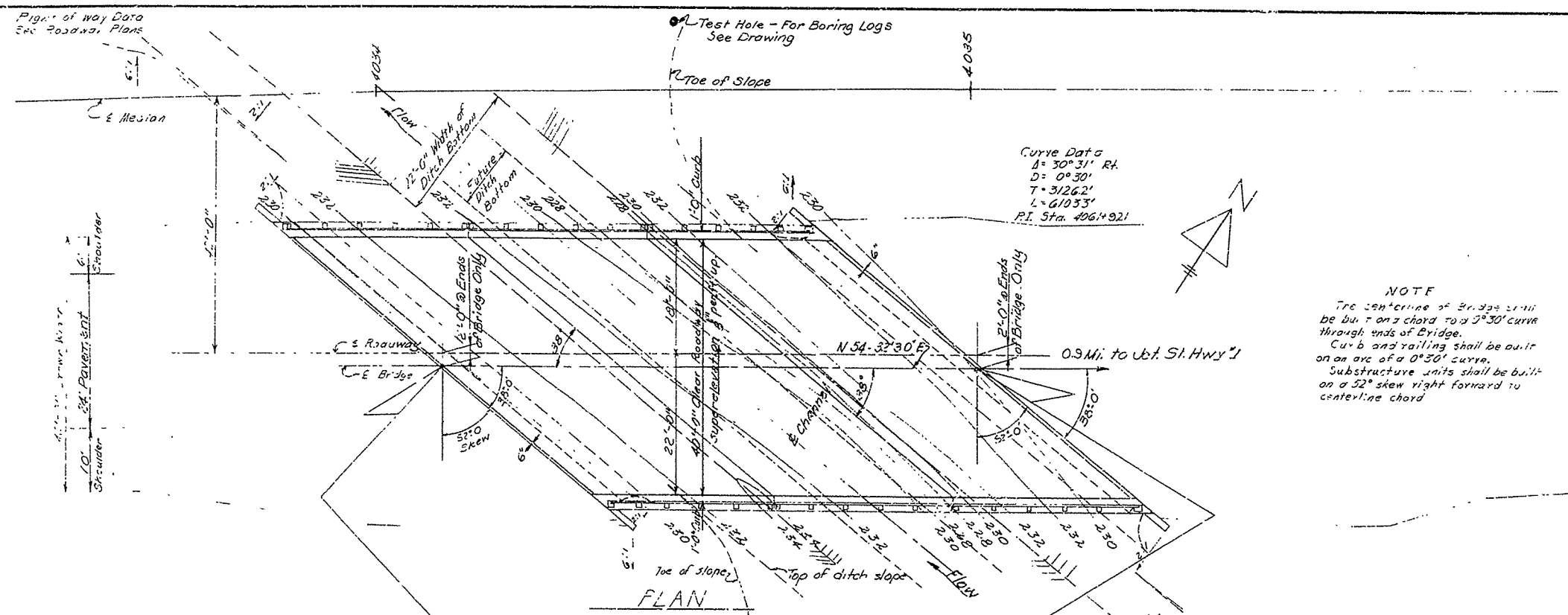
Revision: Piling 12-1-62 H.B. 2443-16

BRIDGE NO. A3617 DRAWING NO. 55475

Signature: L. J. Verlan

T.B.M. - N15
 1 1/4" x 1 1/2" x 30" x 35"
 Elev. 228.38

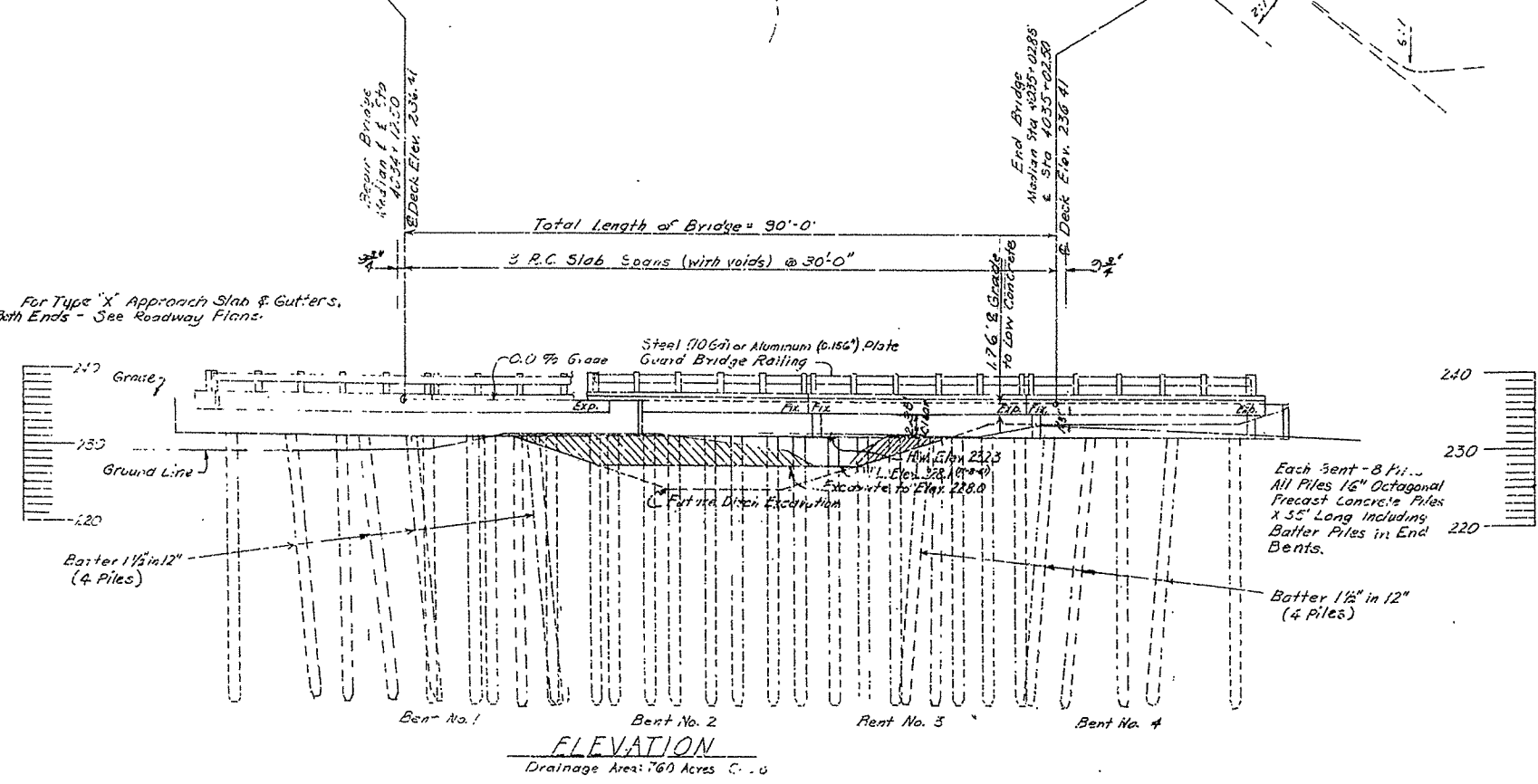
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6	ARK.		69	88
JOB NO.		BB0104	69	88
B3617 - LAYOUT		55476		



NOTE
 The centerline of bridge shall be built on a chord for a $0^\circ 30'$ curve through ends of Bridge.
 Curb and railing shall be built on an arc of a $0^\circ 30'$ curve.
 Substructure units shall be built on a 52° skew right forward to centerline chord.

GENERAL NOTES
 See Bridge No. 3617A, Drawing No. 12123 for General Notes, Location Sketch, Reference Points and Boring Logs.

For Type "X" Approach Slab & Gutters, Both Ends - See Roadway Plans.



FOR INFORMATION ONLY
 (RIGHT LANES)
 LAYOUT OF BRIDGE
 OVER DRAINAGE DITCH
 BECK'S ROAD - FORREST CITY

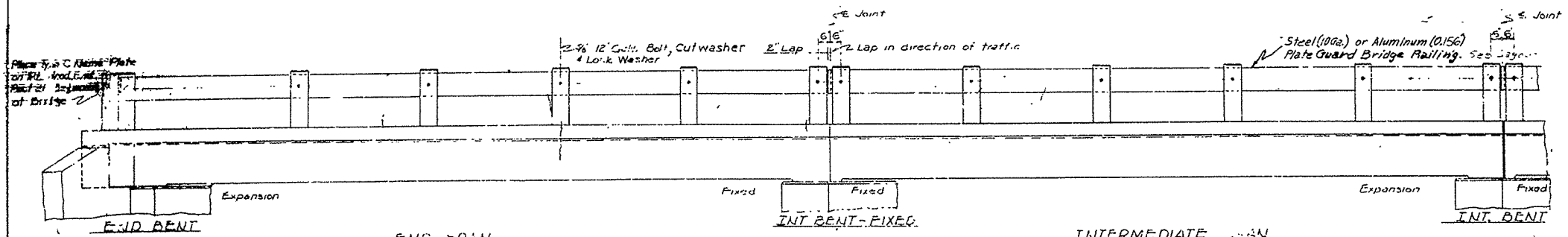
ST. FRANCIS COUNTY
 INT. ROUTE 40 SEC. 5
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Revision: Railing 12-4-52 H.B.; 4-6-56
 DRAWN BY: [Signature] DATE: 2-10-61
 CHECKED BY: M.E. DATE: 7-30-62 SCALE: 1" = 10'
 BRIDGE NO. B3617 DRAWING NO. 55476

T.B.M. - N. 9 Twin Hills
 118' 24" Sta 4232+55
 Elev. 232.38

[Signature]
 BRIDGE ENGINEER

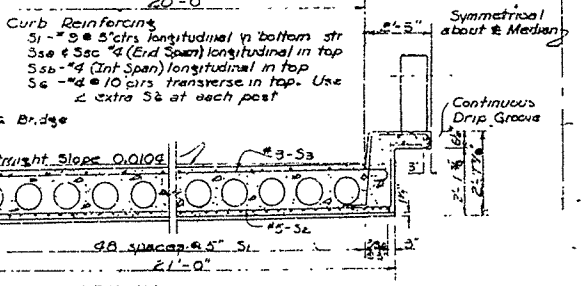
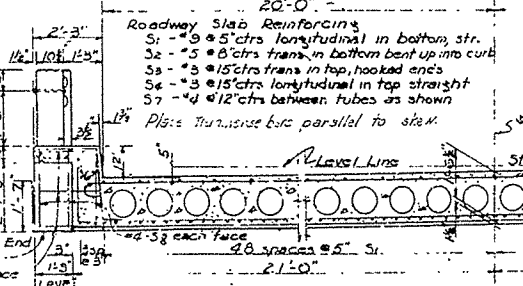
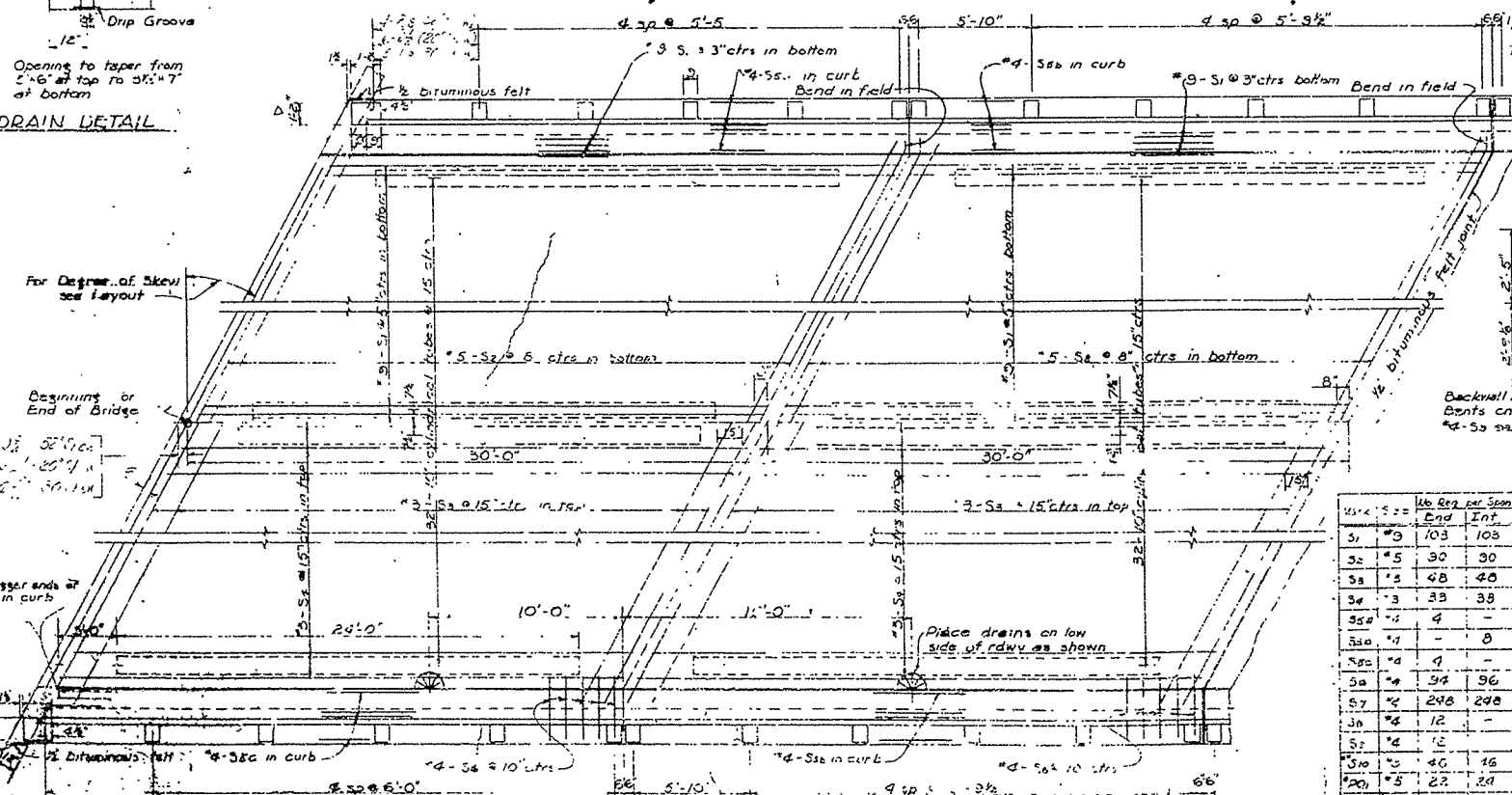
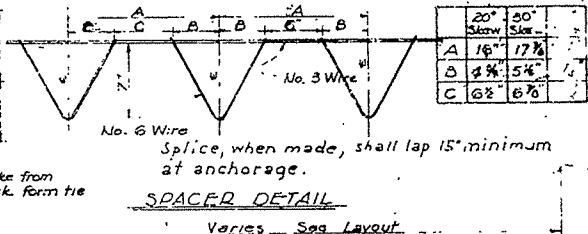
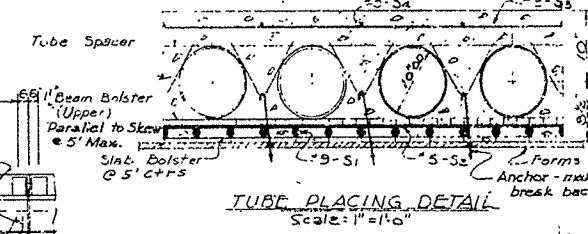
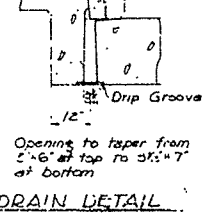
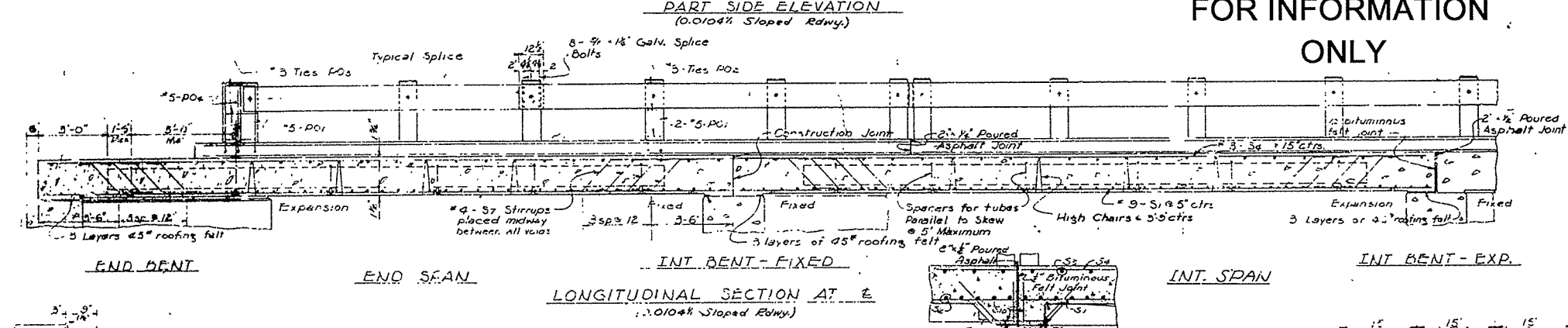
FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.		70	88
JOB NO.		BB0104	A&B3614, A&B3617-SUPERSTR-55477	



DESIGN SPECIFICATIONS AASHO-1961
 Design Live Loading: HS-20-516 and Special Interstate loading of two 20,000 lbs axles 4' on centers
 Load distribution to slab: Dead Load 132 lbs/sq ft, Live Load 0.175 wheels/ft width with 50% Impact, 1200 lbs, 20,000 lbs
 Unit Stresses: Class S Concrete (4+10), Reinforcing Steel

GENERAL NOTES
 All concrete to be Class S. All exposed corners to be chamfered 3/4\" unless otherwise noted.
 Reinforcing steel to be deformed bars of intermediate or hard grade. Shop lists and bending diagrams must be submitted and approval secured before fabrication is begun.
 All cylindrical tubes used to form voids shall be...
 Wire supports for reinforcing bars will not be paid for directly but will be considered subsidiary to the item of Reinforcing Steel.
 Tubes for forming voids and wire supports and spacers for tubes will not be paid for directly but will be considered subsidiary to the item of Class S Concrete.
 Shop lists and diagrams of wire supports and spacers for tubes shall be submitted for approval before fabrication is begun.
 Roofing felt, bituminous felt and poured asphalt joints shall be measured and paid for as Class S Concrete.
 Steel or Aluminum Plate Guard shall be of the type shown at an equivalent rigid type as approved by the Engineer. The rail including all concrete posts and fastenings shall be paid for at the unit price bid per linear foot for Steel or Aluminum Plate Guard Bridge Railing.
 SPECIFICATIONS, Arkansas State Highway Commission Standard Specifications for Highway Construction adopted Dec. 3, 1952.

FOR INFORMATION ONLY



BAR LIST PER SPAN

Span	Bar No.	Bar Size	Length	Quantity	Notes
S1	1	9	103	103	23'-7"
	2	5	30	30	25'-3"
	3	15	48	48	23'-3"
	4	3	33	33	23'-7"
	5	4	4	4	25'-6"
	6	4	4	4	23'-7"
	7	4	4	4	30'-5"
	8	4	4	4	30'-5"
	9	4	4	4	6'-8"
	10	4	4	4	3'-1"
S2	1	5	248	248	31'-1"
	2	4	12	12	2'-5"
	3	14	12	12	2'-1"
	4	16	16	16	4'-7"
	5	22	24	24	5'-10"
	6	3	30	30	2'-5"
	7	3	6	6	4'-7"
	8	5	2	2	6'-1"
	9	5	2	2	6'-1"
	10	5	2	2	6'-1"

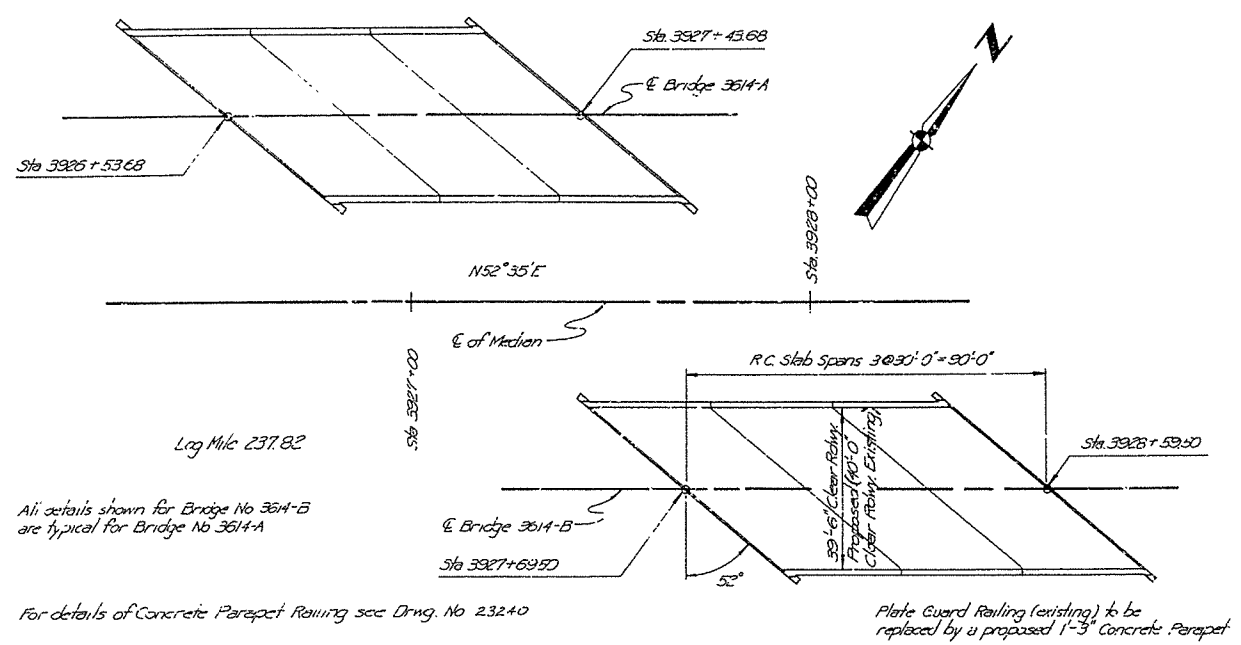
DETAILS OF STANDARD 30'-0" R.C. SLAB SPANS (WITH 20', 30' OR 52' SKEW)
 40'-0" CLEAR ROADWAY 2 CURBS 1'-0"
 ROUTE SEC. ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: [Signature] DATE: 6-7-57
 CHECKED BY: [Signature] DATE: 7-3-57
 BRIDGE NO. 3614 AB B DRAWING NO. 55477

Revised Date of Specifications: (4-2-62 JAS)
 Dead & Live Loading INT. SPAN
 Reinforcing Steel Grade
 Bending of PO, & PO, Bars
 End Posts (C&G DEV 2-2-61)

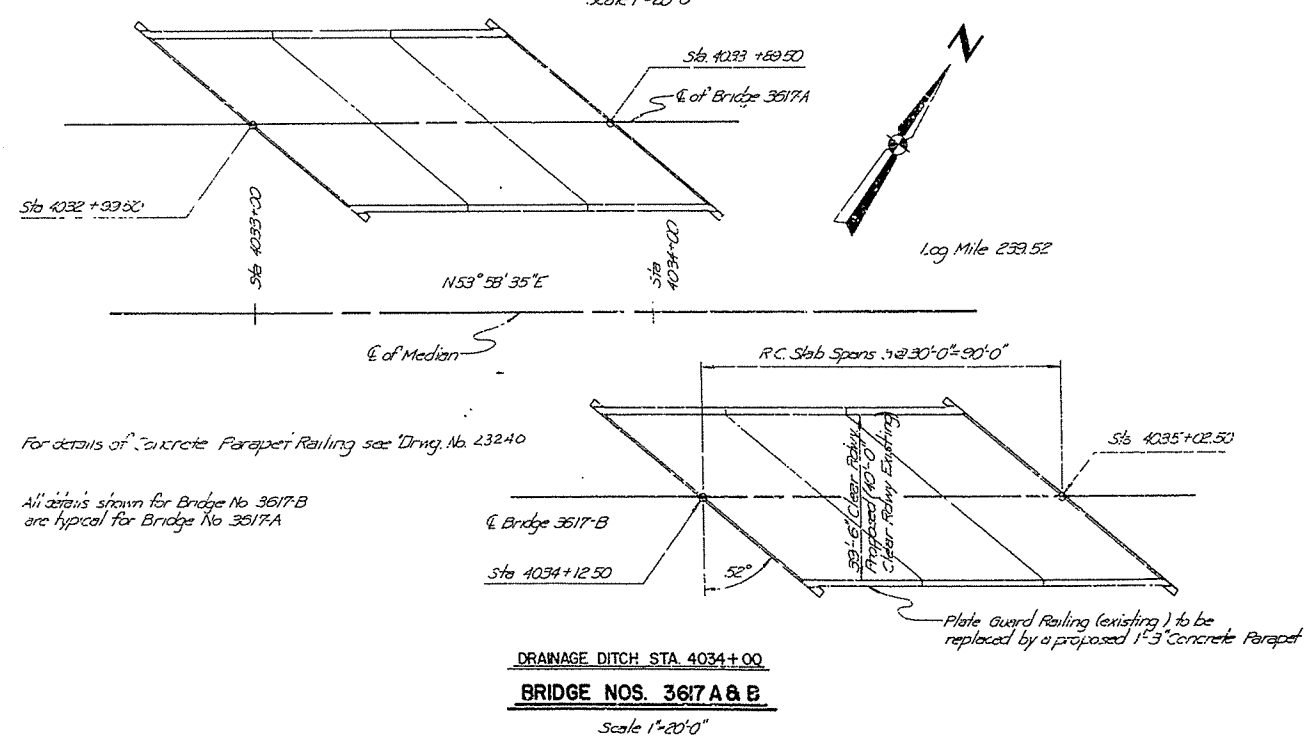
Revisions:
 High chair spacing Aug. 5, 1958 C&G
 Added 5" Parabolic Crown 2-5-55 JON
 Curb Height to 15" 2-25-55 JON, C&G, JLM
 Revised Beam Size and Spacing Notes 2-24-56 JLM
 Revised Aluminum Bridge Railing Size REV 7-5-61

[Signature]
 CIVIL ENGINEER

DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
				JOB NO.	BB0104	71 88
A&B3614, A&B3617 - LAYOUT - 55478						



SPRING CREEK
BRIDGE NOS. 3614 A & B
 Scale 1"=20'-0"



DRAINAGE DITCH STA. 4034+00
BRIDGE NOS. 3617 A & B
 Scale 1"=20'-0"

GENERAL NOTES

ALL CONCRETE SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

THE WORK CONTEMPLATED CONSISTS OF REPLACEMENT OF CURB AND RAILING OF THE EXISTING BRIDGES ON BOTH SIDES OF THE ROADWAY. FOR REQUIREMENTS IN CONDUCTING THE WORK, SEE JOB SPECIAL PROVISION "REMODELING EXISTING BRIDGE STRUCTURES AND MAINTENANCE OF TRAFFIC."

ALL DIMENSIONS RELATING TO EXISTING BRIDGE ARE TO BE VERIFIED IN THE FIELD AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING WORK TO EXISTING STRUCTURE.

PLANS OF THE EXISTING STRUCTURE WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1977 WITH INTERIM SPECIFICATIONS.

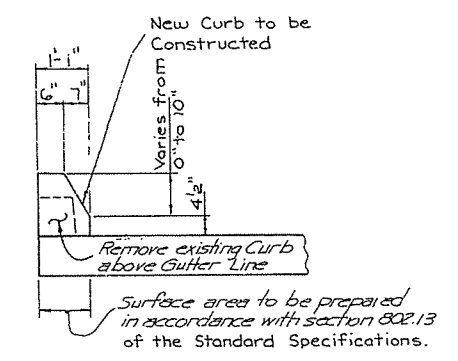
LIVE LOADING: RAIL LOAD AS PER ASSHTO

UNIT STRESSES: f_c = COMPRESSIVE STRENGTH OF CLASS 5(AE) CONCRETE 3500 PSI. f_y = YIELD STRENGTH OF REINFORCING STEEL = 60,000 PSI.

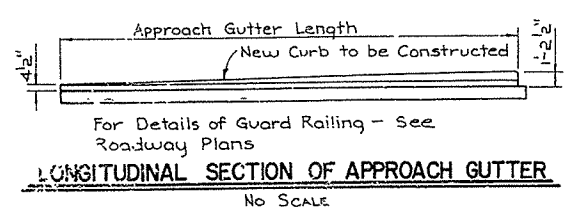
METHOD OF DESIGN: LOAD FACTOR

REMOVE CURB PORTION OF APPROACH GUTTERS AND REPLACE AS SHOWN IN THIS DRAWING FOR BRIDGE NOS. 3614 A & B, 3616 A & B, 3617 A & B, 3876 A & B, 3878 A & B, 3880 A & B, 3845 A & B, 3846 A & B, 3848 A & B AND 3849 A & B.

FOR GUARD RAIL DETAILS, SEE ROADWAY PLANS.



TYPICAL APPROACH GUTTER SECTION
 No SCALE



LONGITUDINAL SECTION OF APPROACH GUTTER
 No SCALE

FOR INFORMATION ONLY

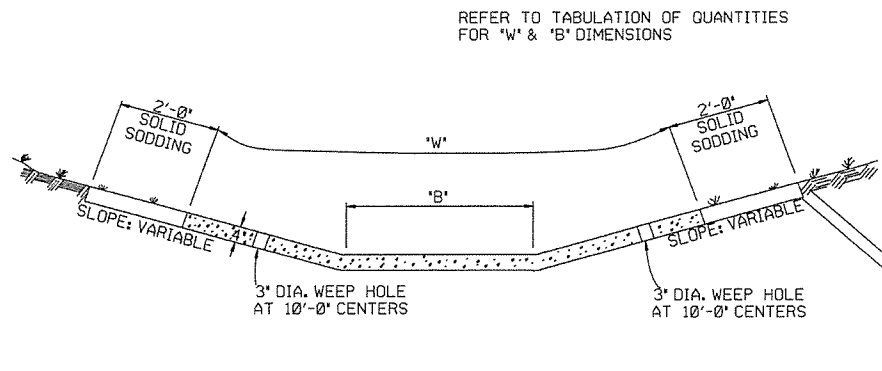
SECTION A
 LAYOUT OF BRIDGES OVER
 SPRING CREEK
 DRAINAGE DITCH STA. 3992+50
 DRAINAGE DITCH STA. 4034+00
 PALESTINE - WEST MEMPHIS (SAFETY)
 (SELECTED SECTIONS)
 ST. FRANCIS COUNTY
 ROUTE 40 SEC. 51
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: W.M.D. DATE: 6-27-79
 CHECKED BY: P.S.J. DATE: 7-1-79
 DESIGNED BY: W.V. DATE: Sept. 77

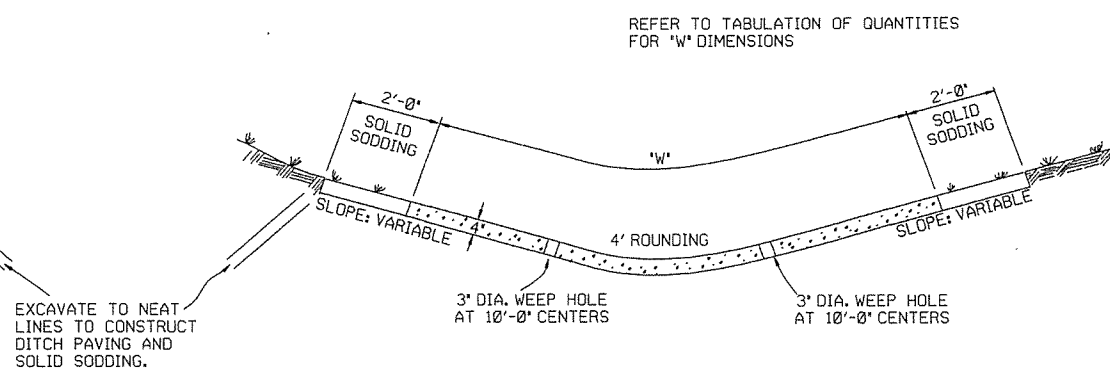
SCALE: 1" = 20'-0"

BRIDGE NOS. 3614 A & B
 3617 A & B
 DRAWING NO. 55478

W. M. Dinkster
 BRIDGE ENGINEER



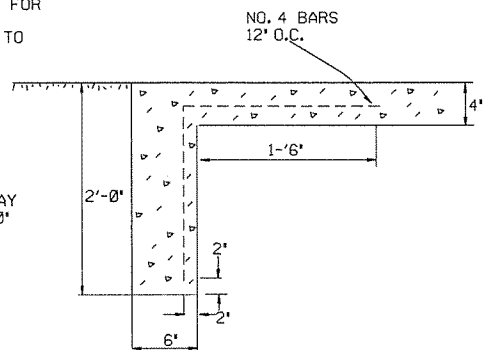
TYPE A



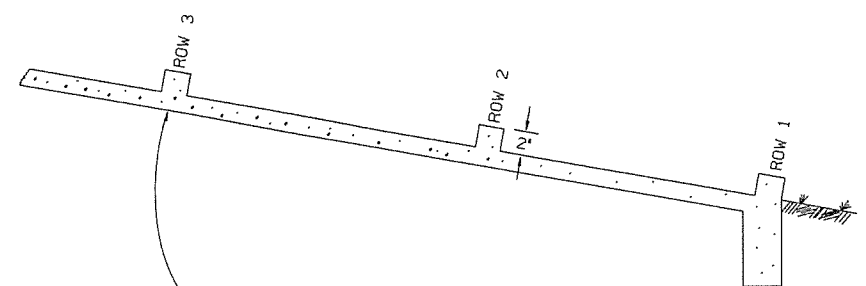
TYPE B

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

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

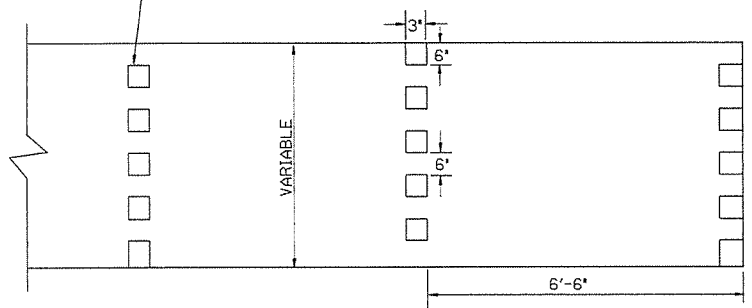


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

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



ENERGY DISSIPATORS
(NO SCALE)

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

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

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

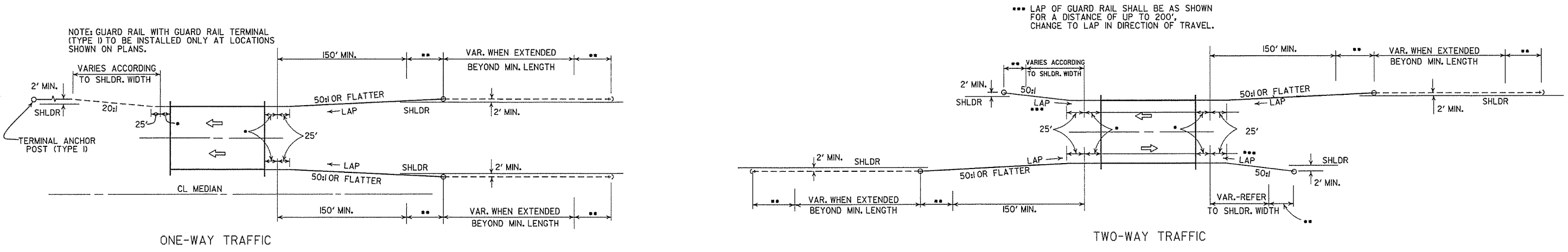
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

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	508-11-1-84
11-1-84	ADDED	
11-1-84	EXCAVATION DETAILS ADDED	
	TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72
DATE	REVISION	DATE FILED

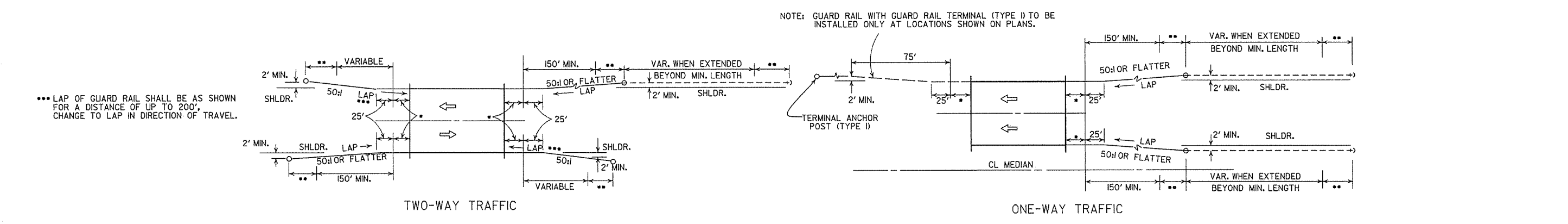
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

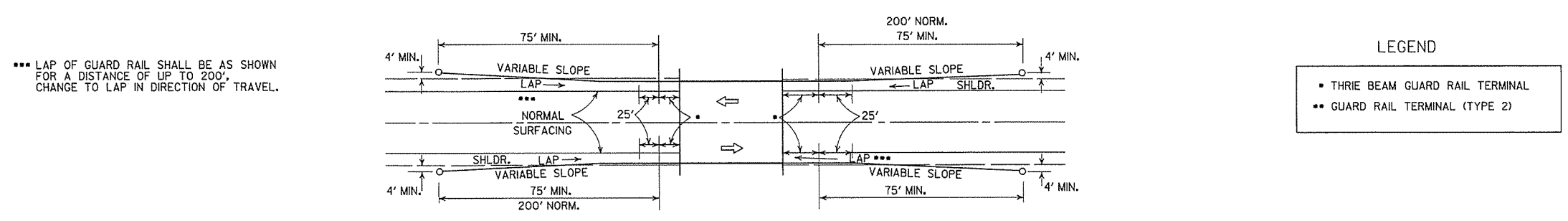
STANDARD DRAWING CDP-1



METHODS OF INSTALLATION OF GUARD RAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)



METHOD OF INSTALLATION OF GUARD RAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)

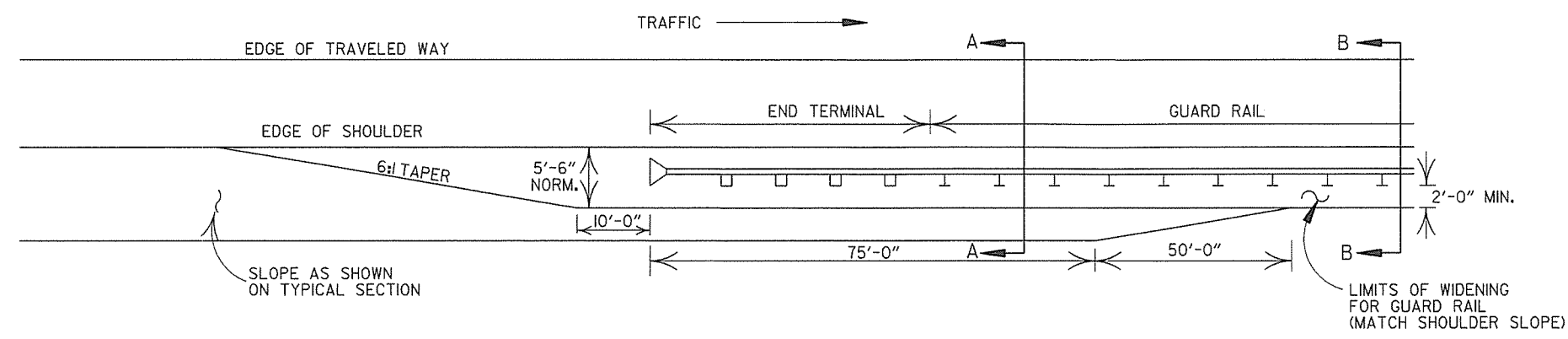


LEGEND

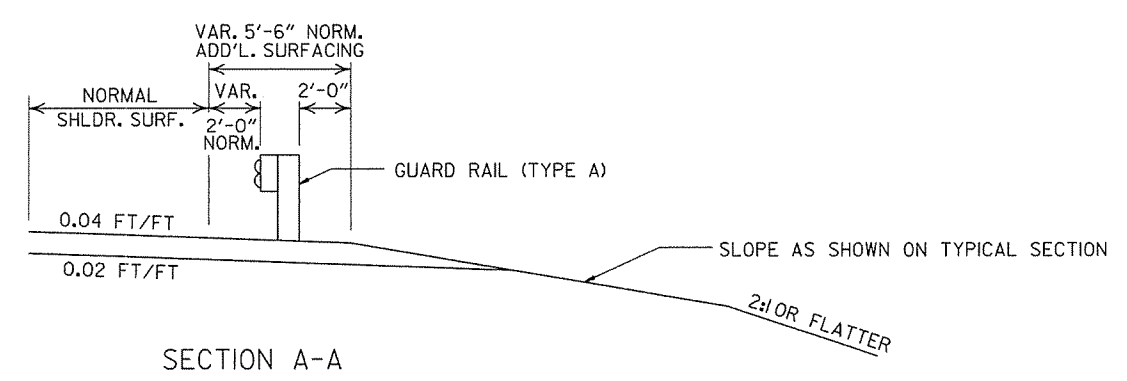
- THRIE BEAM GUARD RAIL TERMINAL
- GUARD RAIL TERMINAL (TYPE 2)

METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERMINAL (TYPE 1) (FULL SHOULDER WIDTH OR LESS BRIDGES)

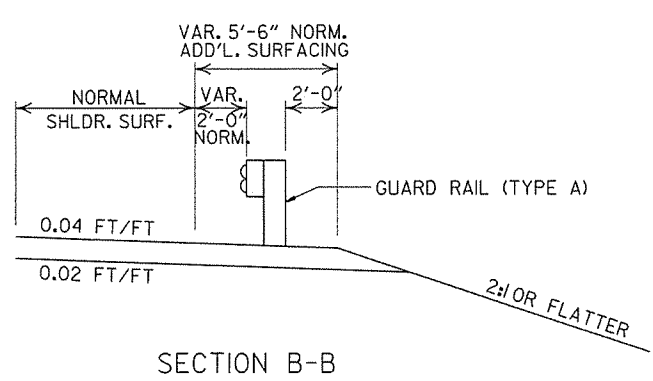
			ARKANSAS STATE HIGHWAY COMMISSION
4-17-08	REVISED LAYOUTS		GUARD RAIL DETAILS
11-10-05	REMOVED GUARD RAIL NOTES AND DETAILS		
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERM. (TY. 1)		
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00	
6-26-97	REVISED LAYOUT		STANDARD DRAWING GR-9
10-1-92	REDRAWN & REVISED	10-1-92	
10-9-87	ADDED NOTE		
DATE	REVISION	DATE FILM	



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

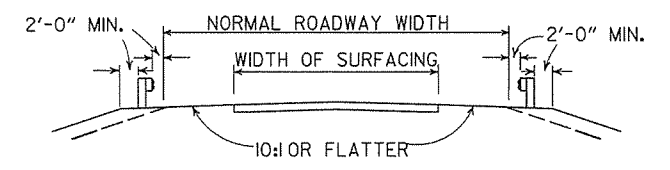


SECTION A-A

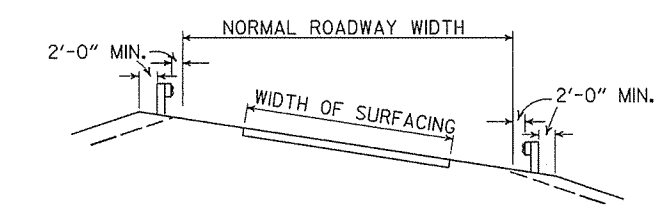


SECTION B-B

DETAILS OF WIDENING FOR GUARD RAIL

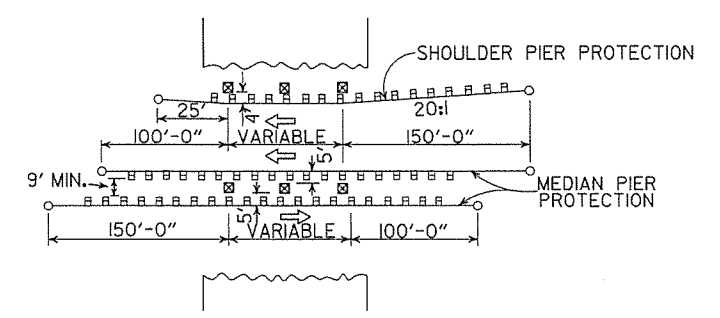


SECTION ON TANGENT



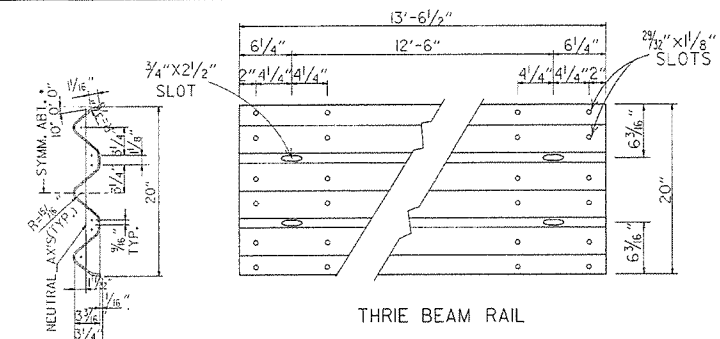
SECTION ON CURVE

DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

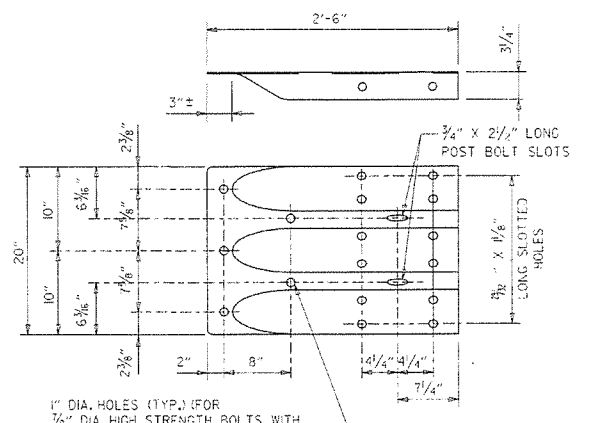


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

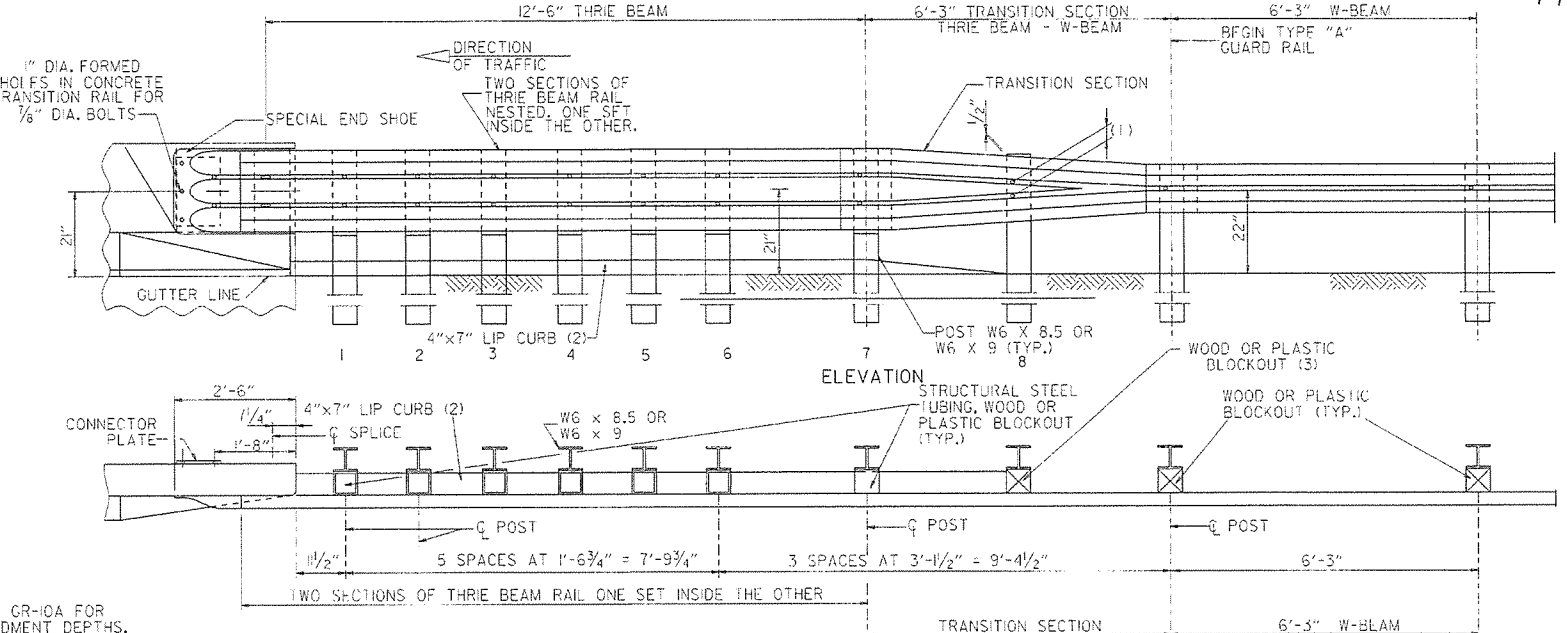
				ARKANSAS STATE HIGHWAY COMMISSION	
				GUARD RAIL DETAILS	
				STANDARD DRAWING GR-9A	
4-17-08	MINOR REVISION				
8-10-05	DRAWN				
DATE	REVISION			DATE	FILM



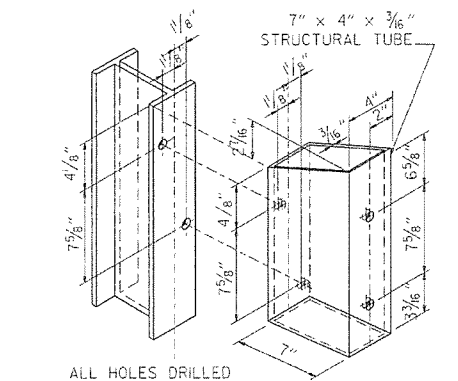
SECTION THRU THRIE BEAM RAIL



SPECIAL END SHOE

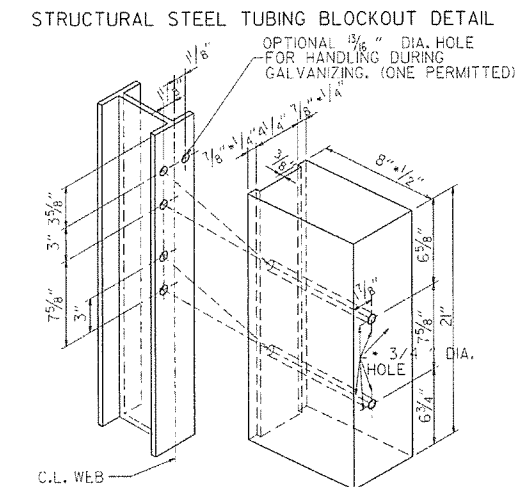


ELEVATION



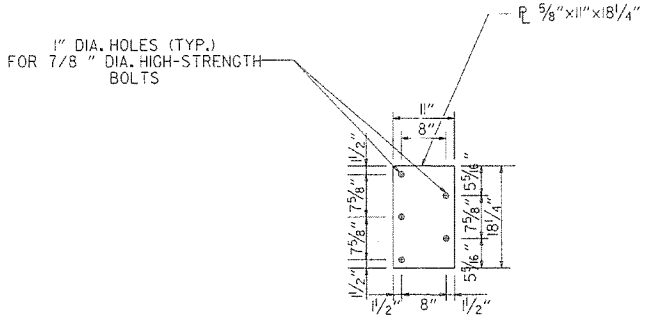
ATTACH BLOCKOUT TO POST USING 5/8" DIA. HEX HEAD BOLTS WITH 1/2" O.D. CUT STEEL WASHERS AND NUT.

ALL HOLES DRILLED OR PUNCHED 1/16" DIA.



ALL HOLES 1/16" DIAMETER EXCEPT AS NOTED HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

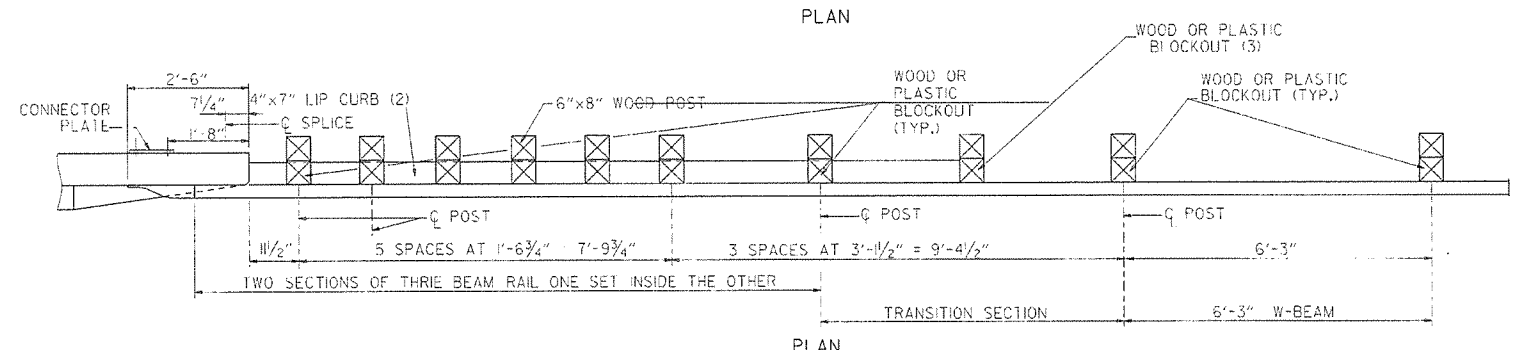
NOTE: BLOCKS SHALL BE THE SAME TYPE THROUGHOUT THE PROJECT LIMITS.



CONNECTOR PLATE

CONNECTOR PLATE SHALL BE AASHTO M270, GR. 36 AND SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO SUBSECTION 807.19 OF THE STANDARD SPECIFICATIONS. CONNECTOR PLATE TO BE BOLTED TO SPECIAL END SHOE USING 7/8" DIA. HIGH STRENGTH BOLTS, WITH THE HEADS PLACED ON THE TRAFFIC FACE. WASHERS SHALL BE USED UNDER THE HEAD AND NUT. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND SHALL CONFORM TO SUBSECTION 807.06.

NOTE: SEE STANDARD DRAWING GR-10A FOR GUARD RAIL POST EMBEDMENT DEPTHS.



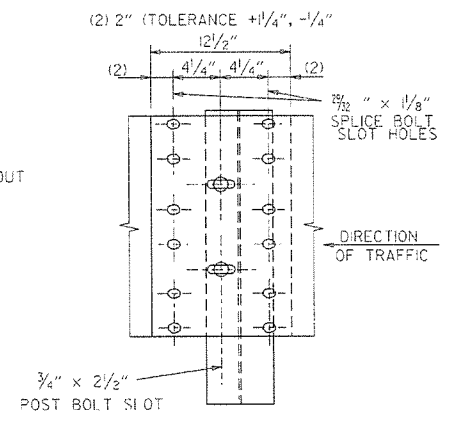
PLAN

- (1) VERIFY BOLT SPACING FROM RAIL TRANSITION PRODUCER.
- (2) REFER TO APPROACH GUTTER DETAILS.
- (3) LENGTH OF BLOCKOUT ON POST 8 TO BE MODIFIED TO FIT RAIL WIDTH.

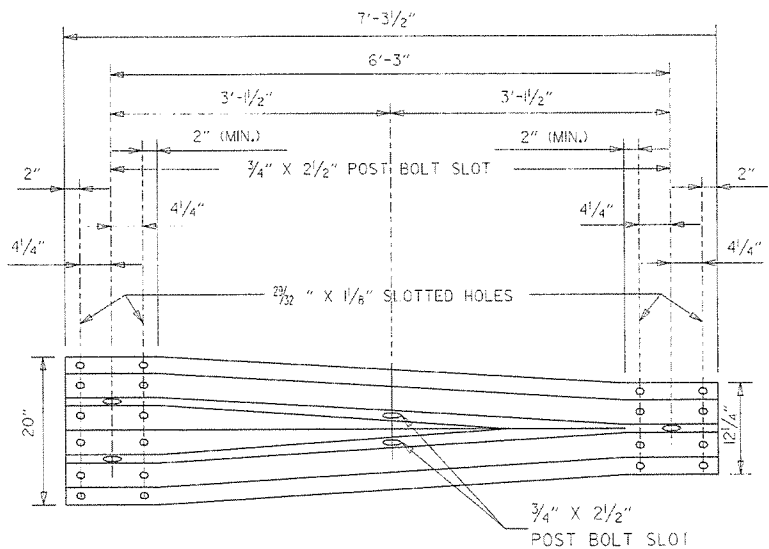
THRIE BEAM GUARD RAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

- THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.
- RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.
- ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.
- ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-9 & GR-11.
- WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7# (1400 #) OR NO. 1 1350 # SOUTHERN PINE.
- REFER TO STD. DRWG. GR-10A FOR POST DETAILS.
- USE THRIE BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.
- THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.



THRIE BEAM RAIL SPLICE AT POST



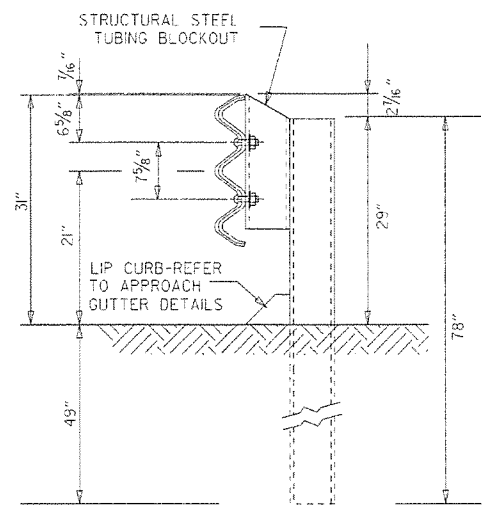
TRANSITION SECTION

DATE	REVISION	DATE FILM
7-14-10	RAISED HEIGHT OF W-BEAM 1"	
11-29-07	ADDED PLASTIC BLOCKOUTS	
11-10-05	ADDED NOTE FOR ATTACHING STEEL BLOCKOUT	
11-18-04	REVISED GENERAL NOTES	
10-9-03	REVISED GENERAL NOTES	
4-10-03	REVISED GENERAL NOTES	
8-22-02	REVISED NOTE (2)	
6-29-00	MOVED DIMENSION LINES	
5-18-00	ADDED NOTE	
3-30-00	DRAWN & ISSUED	

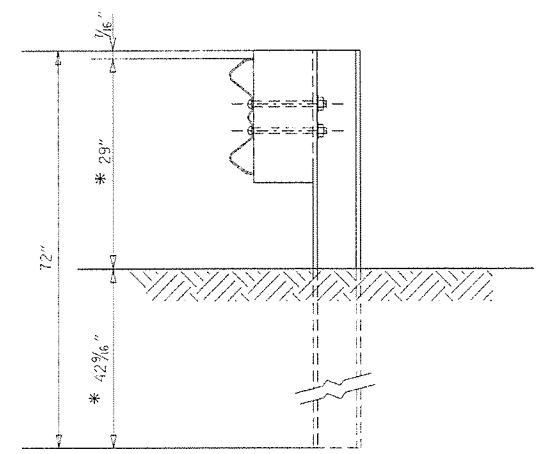
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

STANDARD DRAWING GR-10

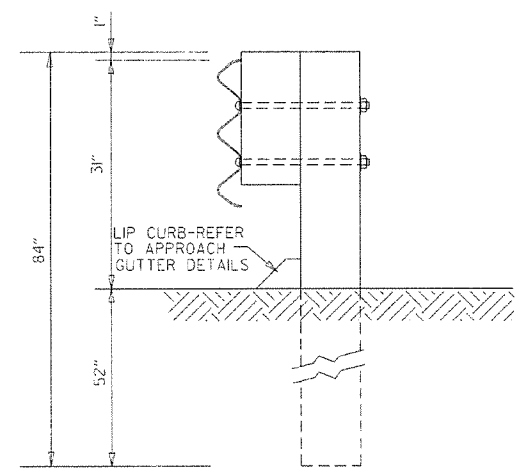


THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT AND STEEL POST
POSTS 1-7

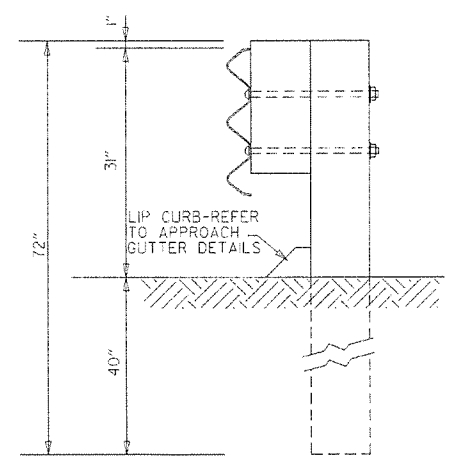


W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8

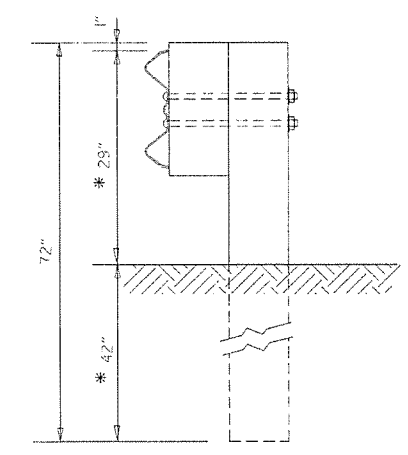
* NOTE:
THESE DIMENSIONS WILL NEED TO BE ADJUSTED IN THE FIELD TO MAKE THE TRANSITION FROM 21" MID POINT OF THRIE BEAM TO 22" MID POINT OF W-BEAM.



THRIE BEAM RAIL WITH WOOD OR PLASTIC BLOCKOUTS & WOOD POSTS
POSTS 1-6



THRIE BEAM RAIL WITH WOOD OR PLASTIC BLOCKOUT & WOOD POST
POST 7



W-BEAM TO THRIE BEAM TRANSITION RAIL WITH WOOD OR PLASTIC BLOCKOUT & WOOD POST
POST 8

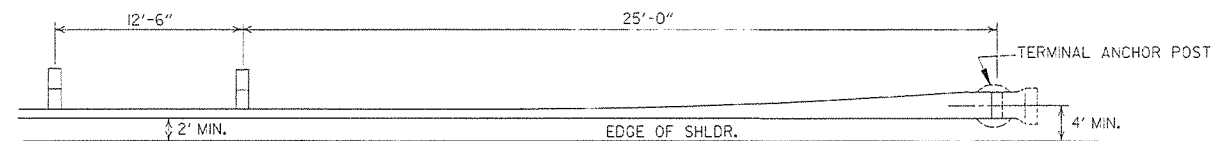
GENERAL NOTES:
RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7F (1400 F) OR NO. 1 (350 F SOUTHERN PINE.

DATE	REVISION	DATE	FILM
7-14-10	REVISED POST 8 DIMENSIONS		
11-29-07	ADDED PLASTIC BLOCKOUTS		
8-22-02	REVISED LIP CURB NOTE		
3-30-00	DRAWN & ISSUED		

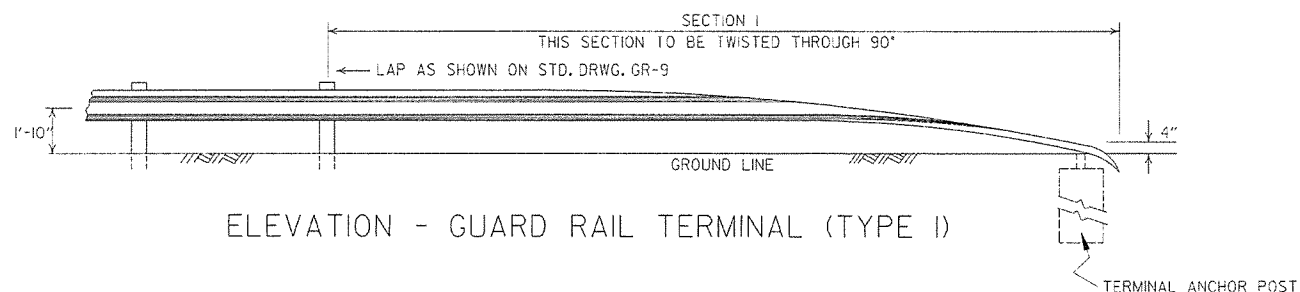
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

STANDARD DRAWING GR-10A

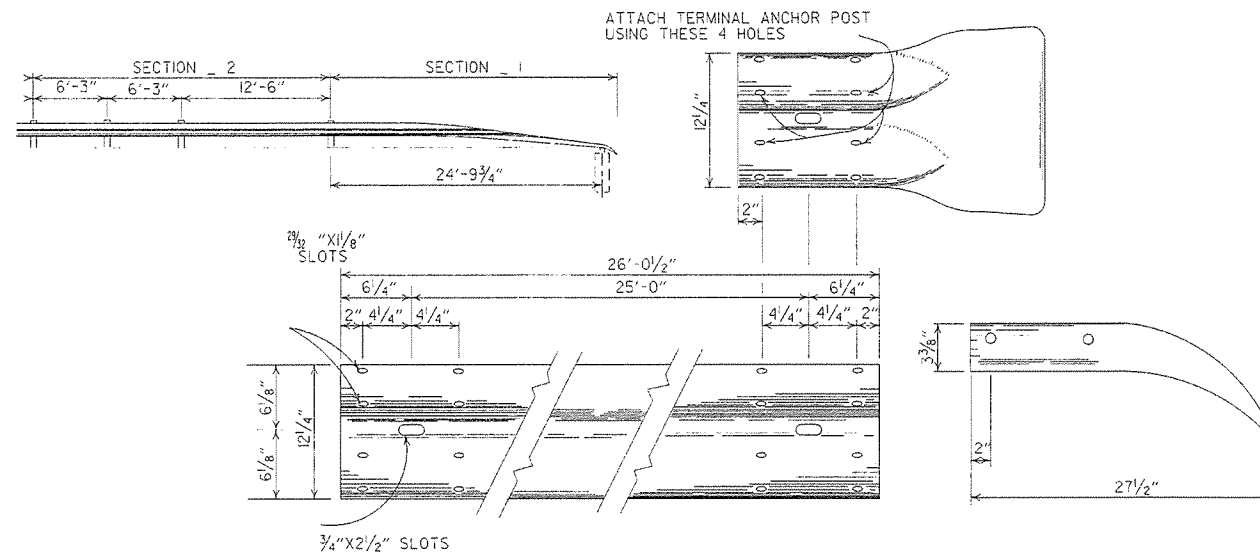


PLAN - GUARD RAIL TERMINAL (TYPE I)



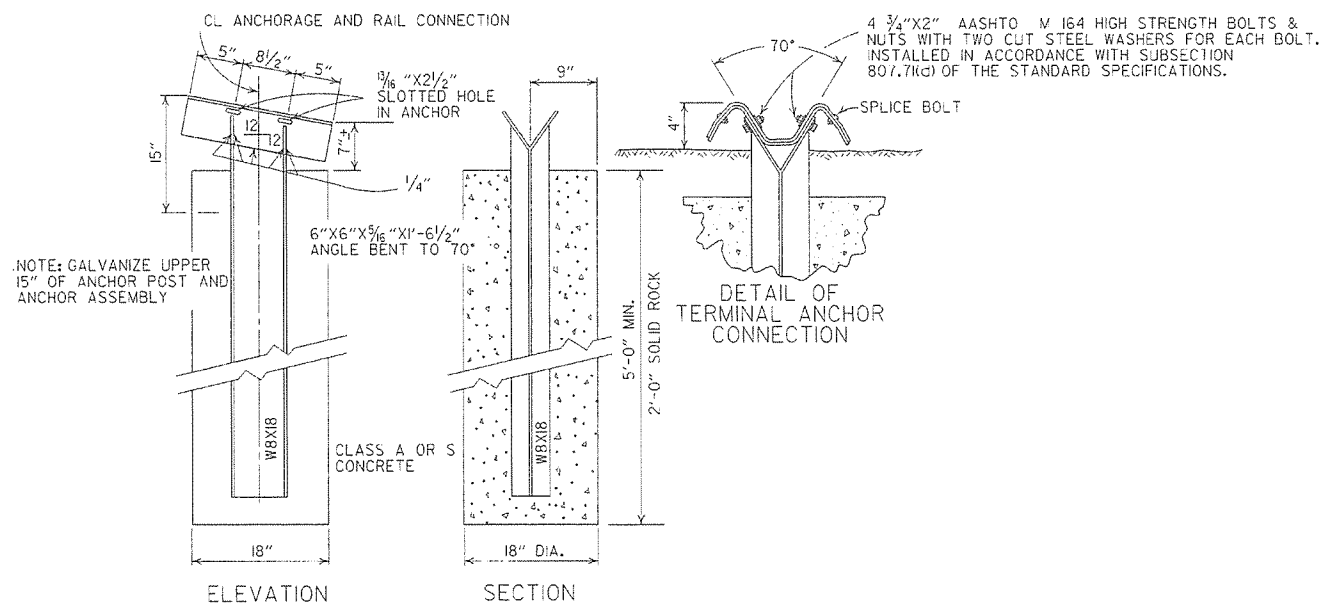
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

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

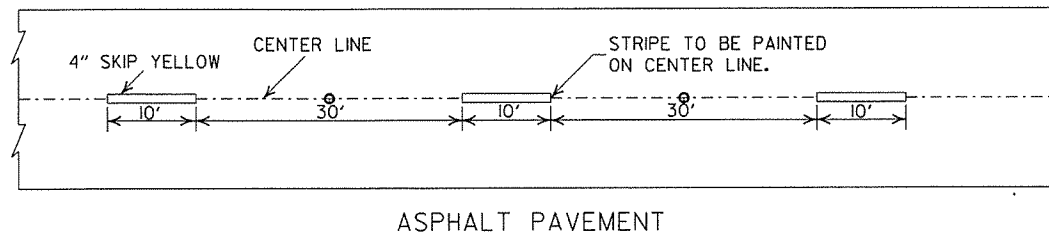
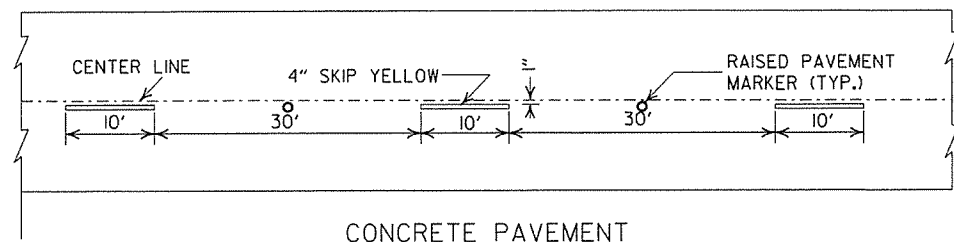


ELEVATION SECTION

DETAIL OF TERMINAL ANCHOR POST (TYPE I)

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

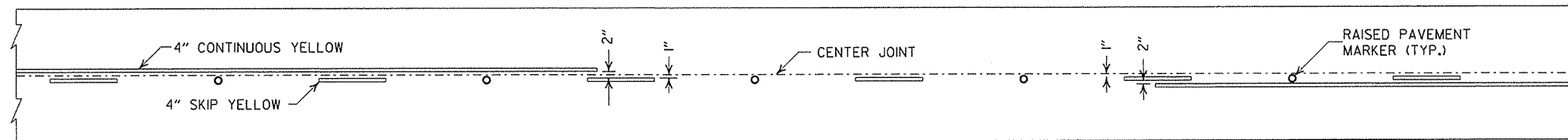
			ARKANSAS STATE HIGHWAY COMMISSION
			GUARD RAIL DETAILS
			STANDARD DRAWING GRT-1
7-14-10	RAISED HEIGHT OF GUARD RAIL 1"		
6-26-97	REVISED LAP NOTE		
10-18-96	REVISED ASTM REF. TO AASHTO		
11-3-94	DIMENSION TERMINAL DETAIL		
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92	
10-1-92	DRAWN & ISSUED	10-1-92	
DATE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



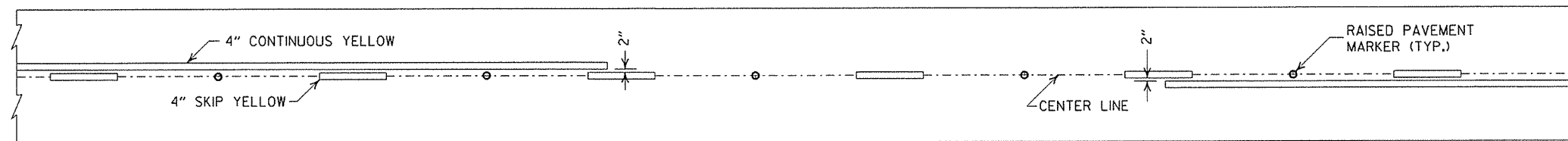
CONCRETE PAVEMENT

ASPHALT PAVEMENT

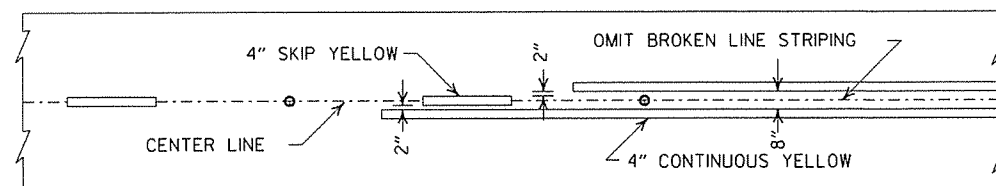
BROKEN LINE STRIPING



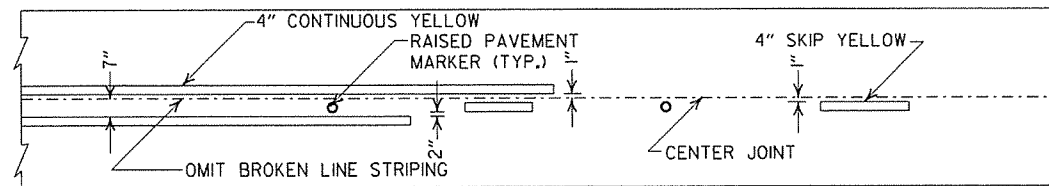
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT



ASPHALT PAVEMENT



CONCRETE PAVEMENT

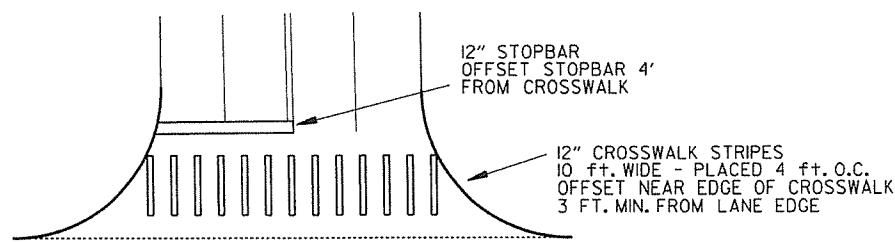
STRIPING AT ADJACENT NO PASSING LANES

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.

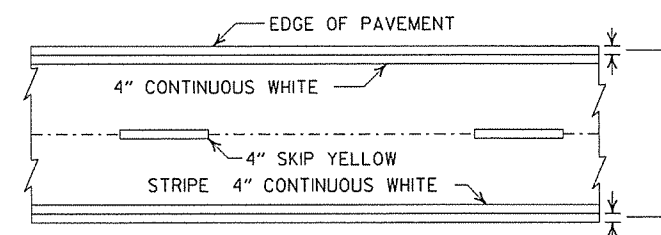


CROSSWALK AND STOPBAR DETAILS

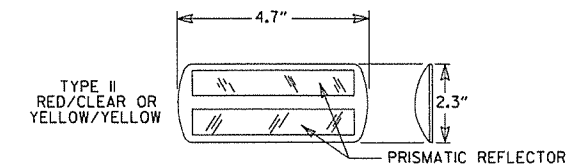
NOTES:

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.

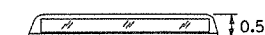
2" FOR ASPHALT OR CONCRETE PAVEMENT
6" FOR BITUMINOUS SURFACE TREATMENT



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

DATE	REVISION	FILMED
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
11-17-10	REVISED GENERAL NOTES & REMOVED PLOWABLE PAV'T 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

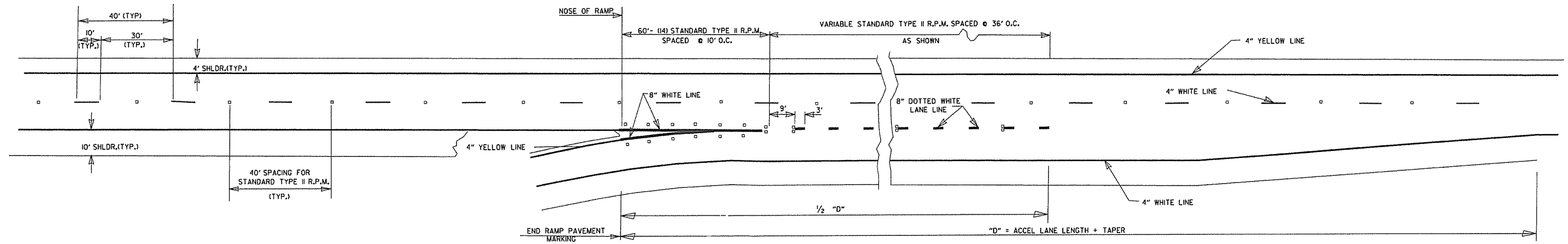
PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

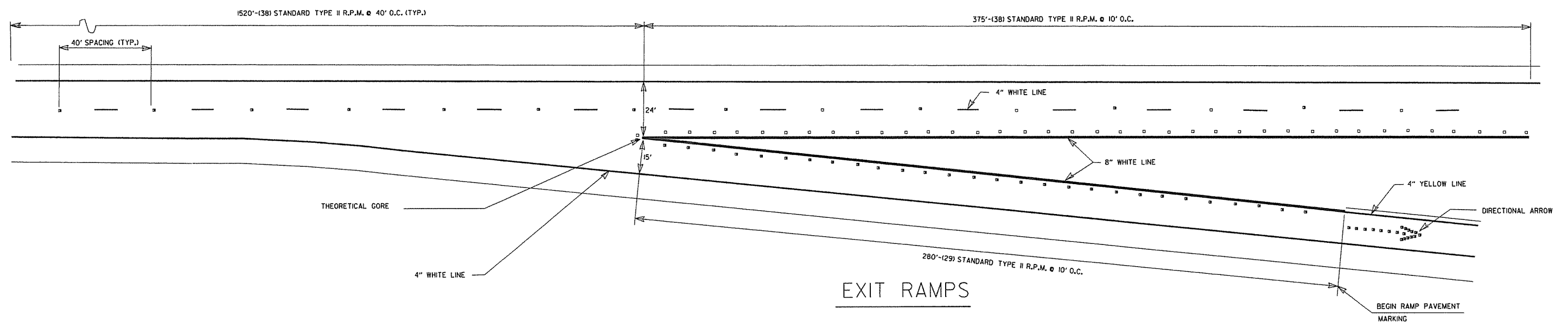
PAVEMENT MARKING QUANTITIES
(BASED ON 700' ACCEL. LANE + 300' TAPER)

ENTRANCE RAMP
8" WHITE = 228 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH

EXIT RAMP
4" WHITE = 280 LIN. FT.
8" WHITE = 655 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 48 EACH
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH



ENTRANCE RAMPS

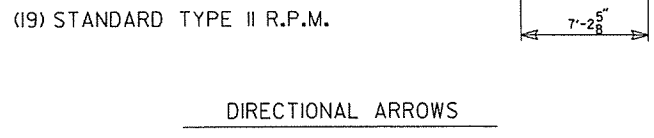
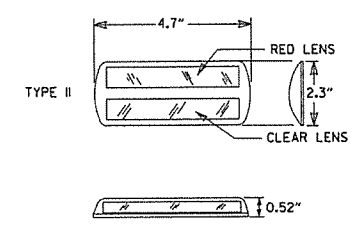


EXIT RAMPS

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.




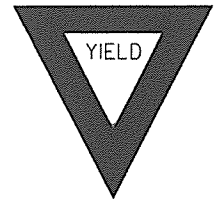
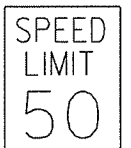
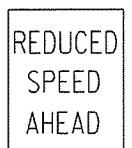



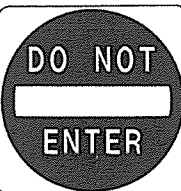

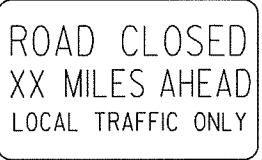
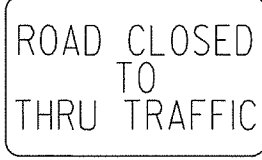
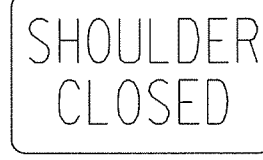
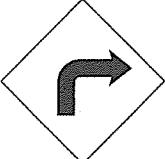
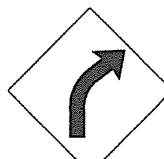
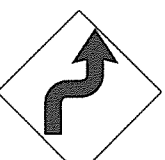

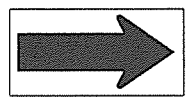
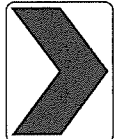
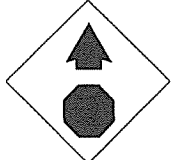
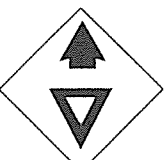
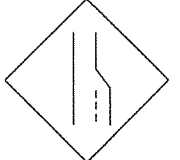

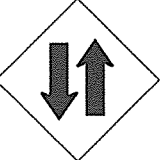

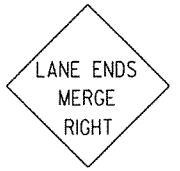


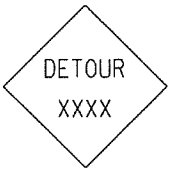



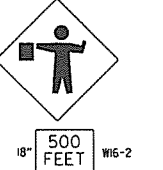


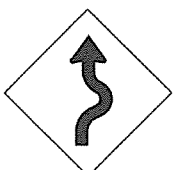
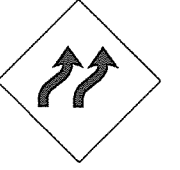

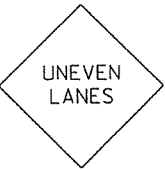
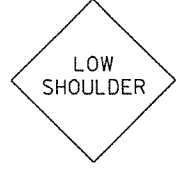
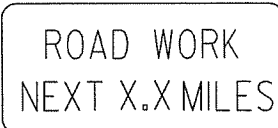
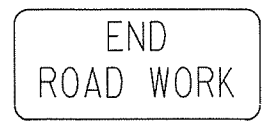
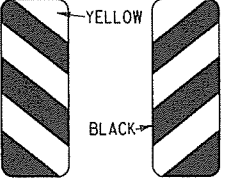
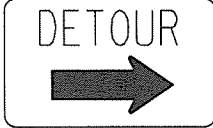

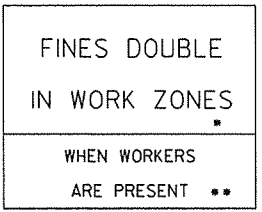
DETAIL OF STANDARD RAISED PAVEMENT MARKERS

DIRECTIONAL ARROWS

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

DATE	REVISION	FILMED
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
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>R5-1</p>  <p>STD. 30"x30" EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>R11-2</p>  <p>48"x30"</p>	<p>R11-3A</p>  <p>60"x30"</p>	<p>R11-4</p>  <p>60"x30"</p>	<p>RSP-1</p>  <p>48"x30"</p>	<p>WI-1</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>WI-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	
<p>WI-3</p>  <p>STD. 48"x48"</p>	<p>WI-4</p>  <p>STD. 48"x48"</p>	<p>WI-6</p>  <p>STD. 48"x24" SPECIAL 60"x30"</p>	<p>WI-8</p>  <p>STD. 18"x24" SPECIAL 24"x30" EXPWY. 30"x36" FWY. 36"x48"</p>	<p>W3-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W3-2</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W4-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	
<p>W5-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W6-3</p>  <p>EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>W8-7</p>  <p>EXPWY. 36"x36" FWY. 48"x48"</p>	<p>W9-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W13-1</p>  <p>STD. 24"x24"</p>	<p>W20-1</p>  <p>STD. 48"x48"</p>	<p>W20-2</p>  <p>STD. 48"x48"</p>	<p>W20-3</p>  <p>STD. 48"x48"</p>
<p>W20-4</p>  <p>STD. 48"x48"</p>	<p>W20-5</p>  <p>STD. 48"x48"</p>	<p>W20-7a</p>  <p>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>W1-4b</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" * USE 6" C LETTERS ** USE 4" D LETTERS</p>

ADVANCE DISTANCES (XXXX)

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

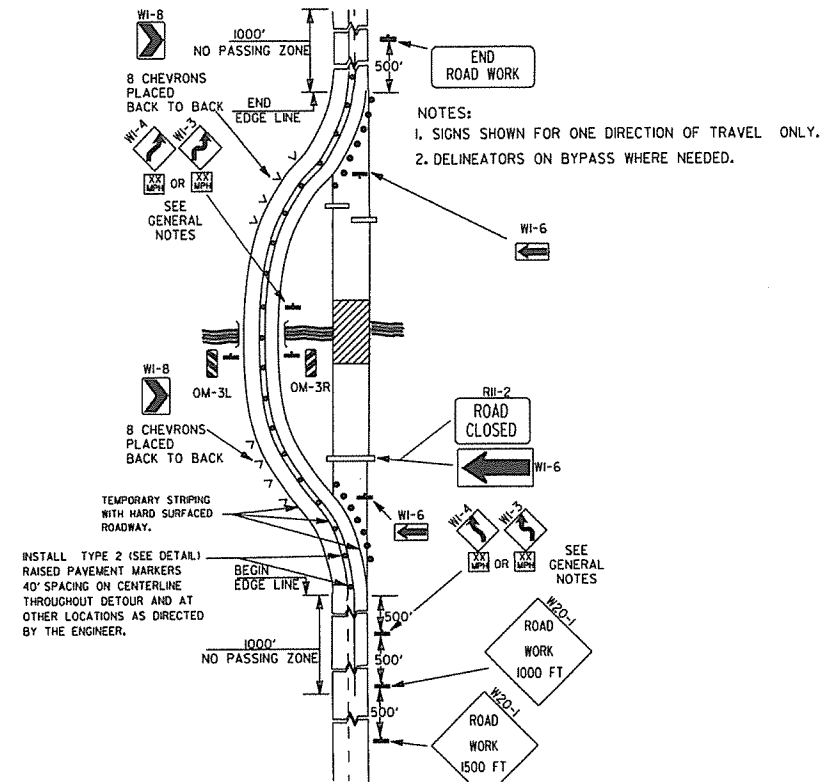
GENERAL NOTES:

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

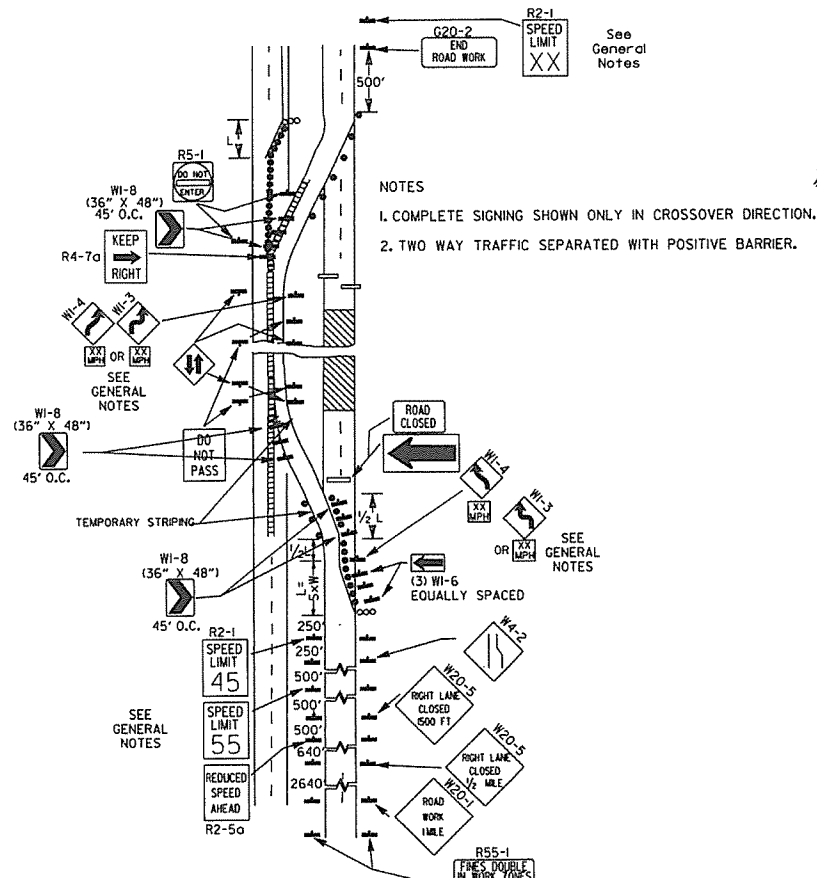
* NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY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

12-15-8	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

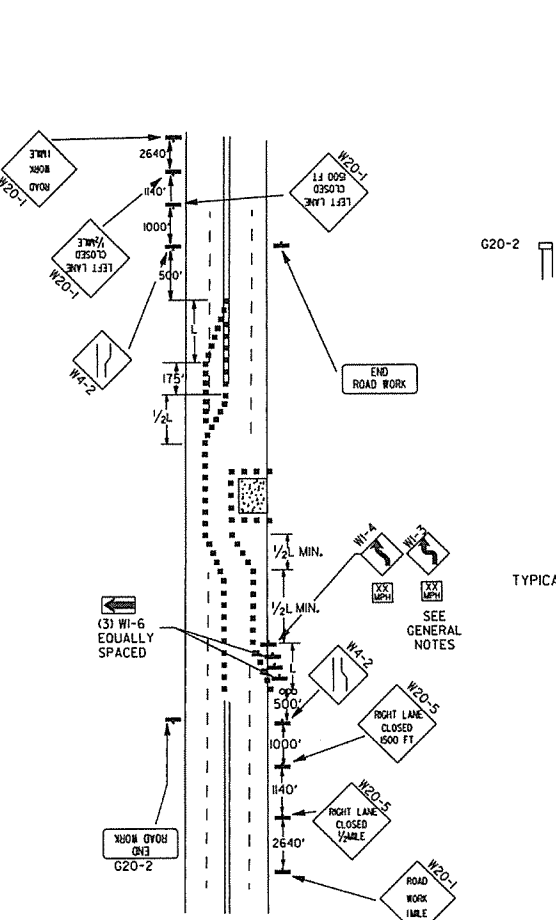
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-1



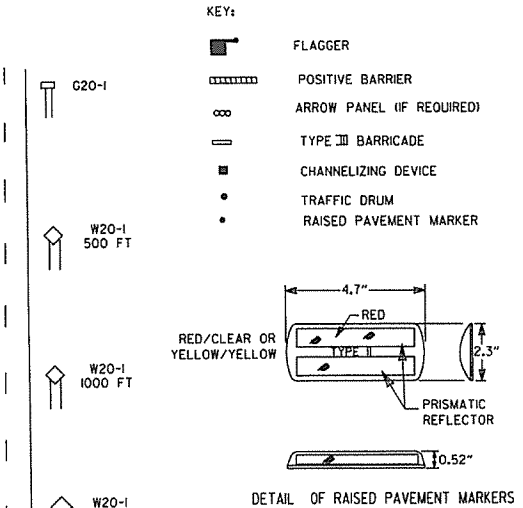
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



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

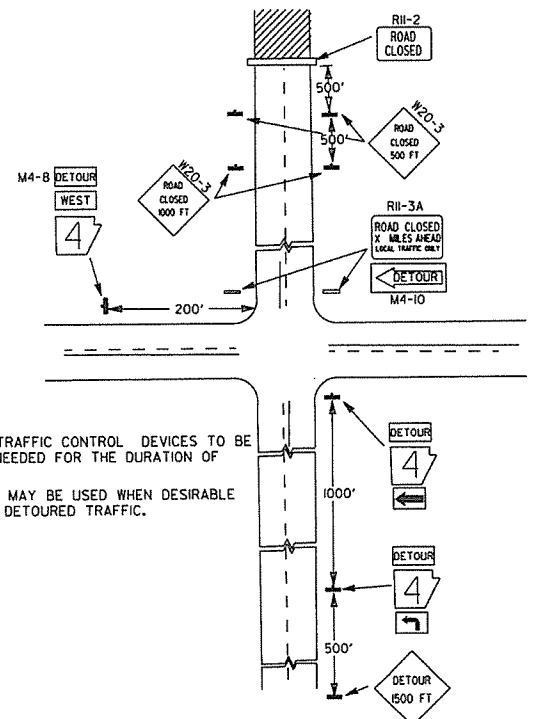


(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

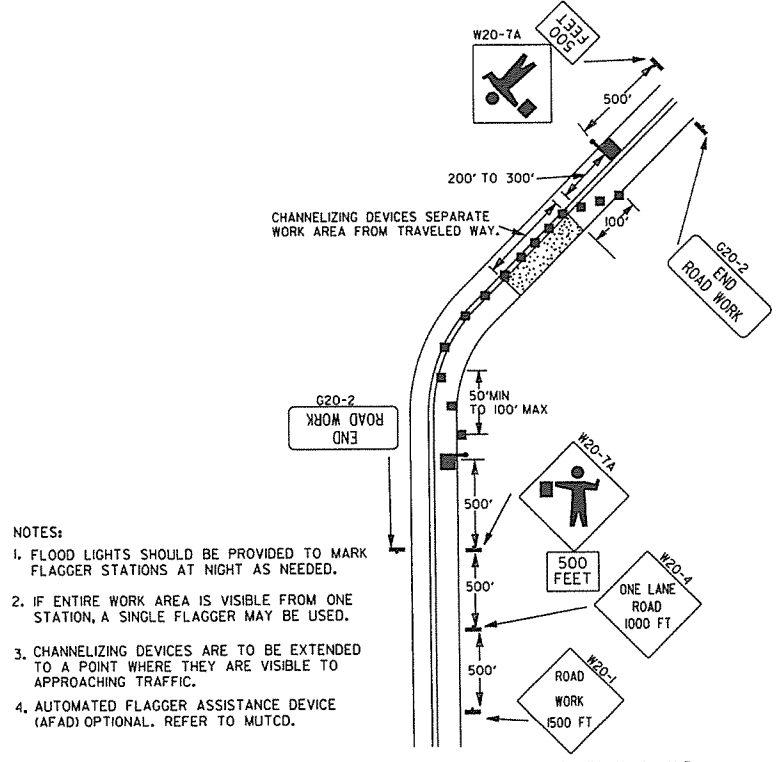


TAPER FORMULAE:
 $L = SXW$ FOR SPEEDS OF 45MPH OR MORE.
 $L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.
 WHERE:
 L = MINIMUM LENGTH OF TAPER.
 S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.
 W = WIDTH OF OFFSET.

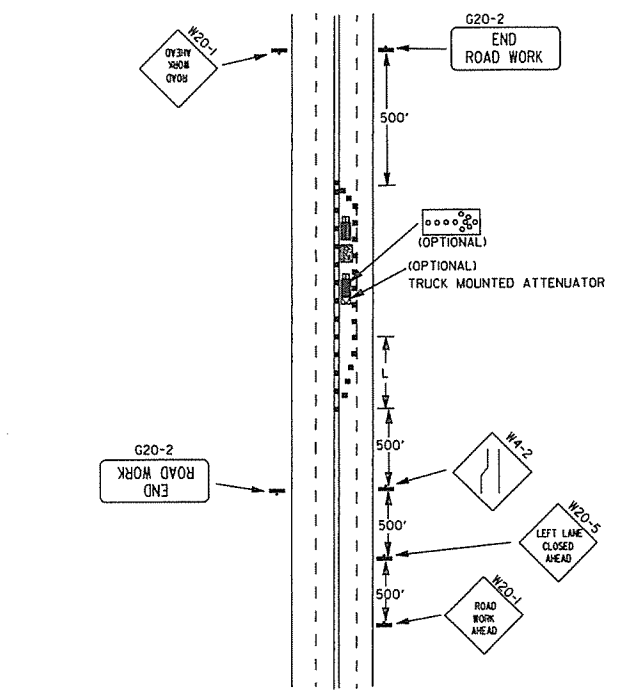
- GENERAL NOTES:
- ADVISORY SPEED POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS.
 - WHEN THE EXISTING SPEED LIMIT IS 45MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(45) SHALL BE OMITTED AND THE R2-5A SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE 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(45) SHALL BE OMITTED. ADDITIONAL R2-155MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(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.
 - TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSISTENCY 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.



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

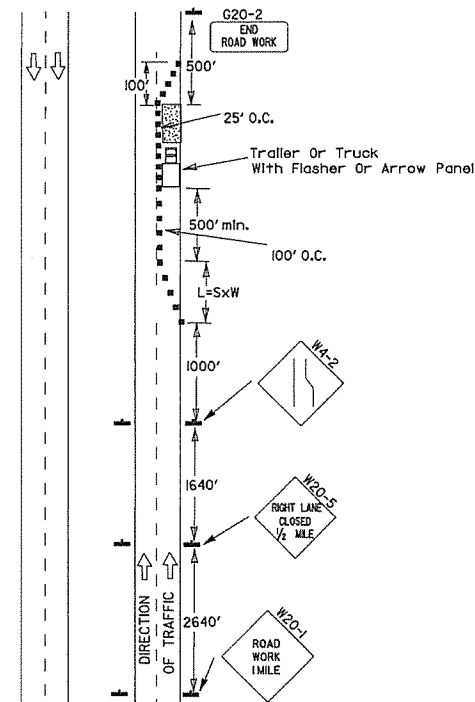


(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

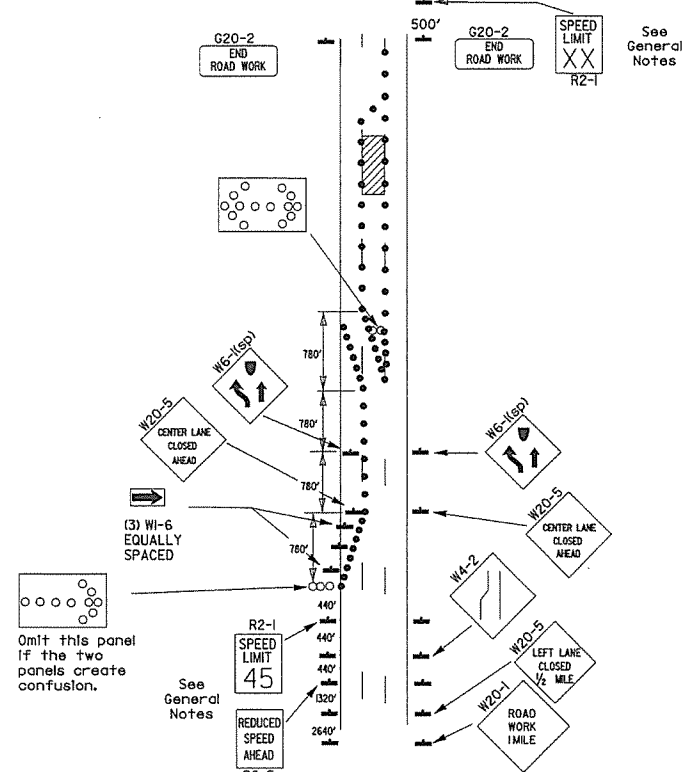


(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

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

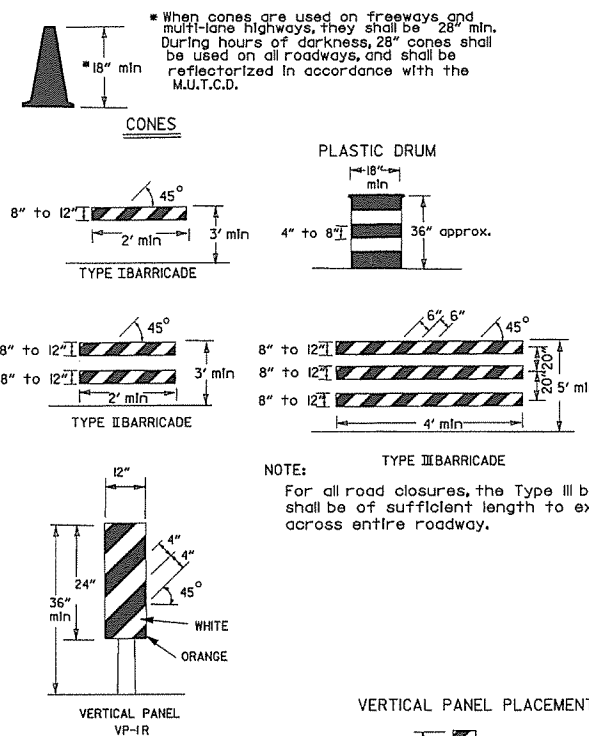


(A) Typical application - daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



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

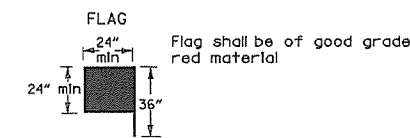
Channelizing devices



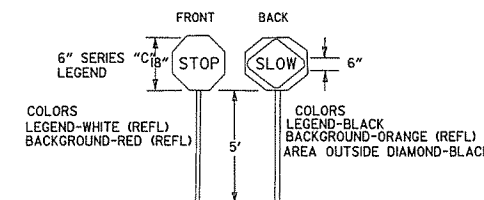
TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

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

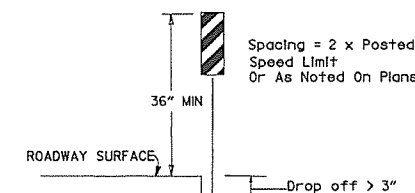
* When shown on the plans concrete barrier will be used.
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.



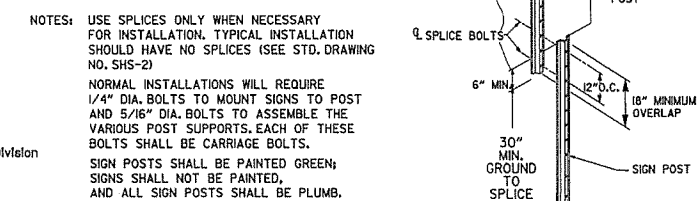
STOP SLOW PADDLE



VERTICAL PANEL PLACEMENT



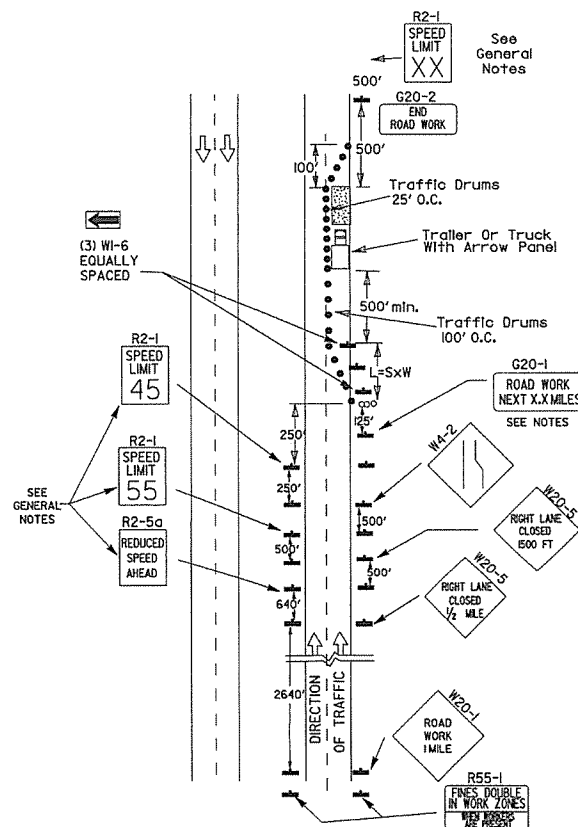
DETAIL OF SPLICES



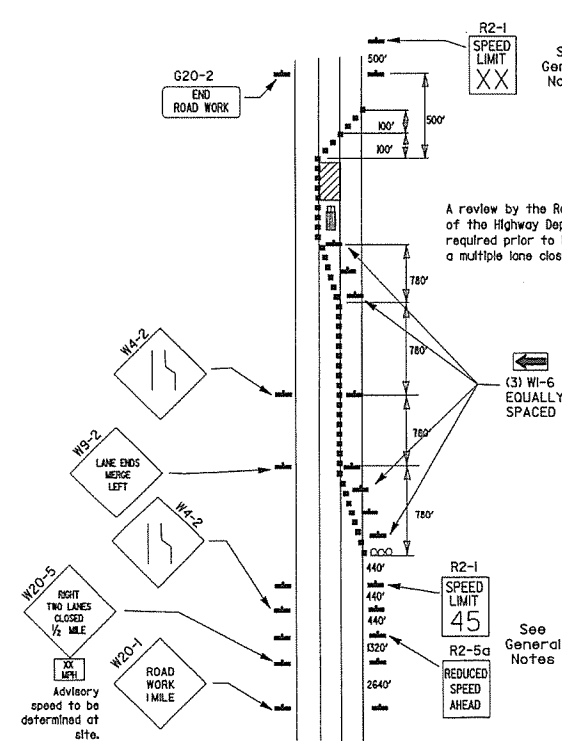
- KEY:
- Arrow Panel (if Required)
 - Channelizing Device
 - Traffic drum

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 R2-145mph speed limit signs shall be installed at a maximum of 1 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(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of 1 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.

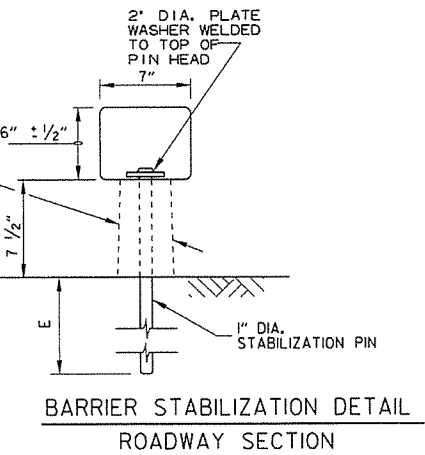
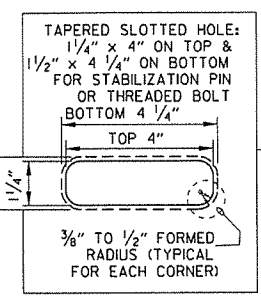
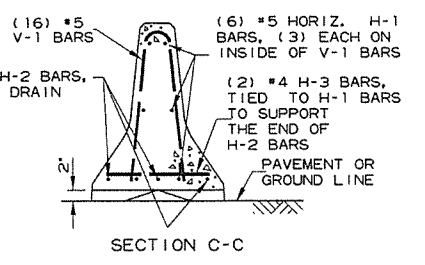
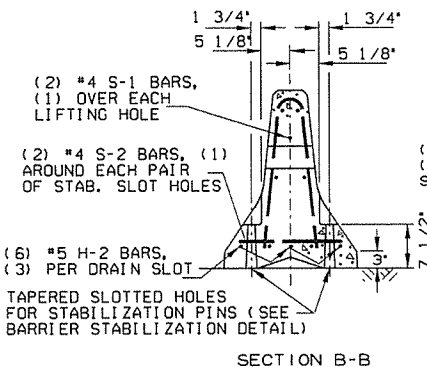
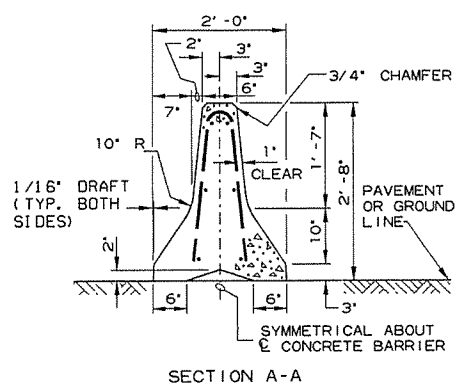
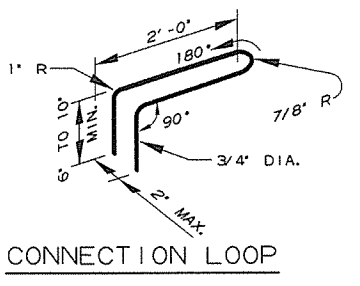
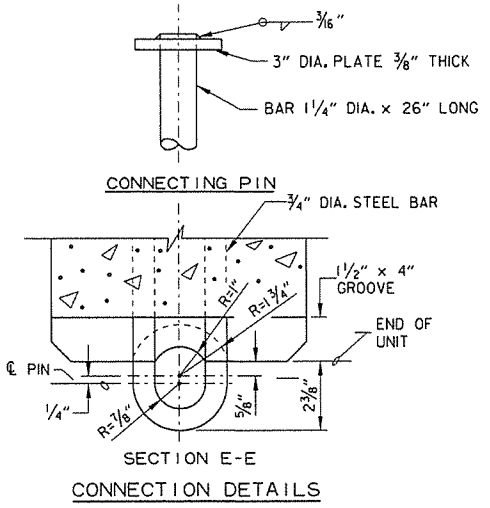


(D) Typical application - closing multiple lanes of a multilane highway.

DATE	REVISION	FILED
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1 & REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-95	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	

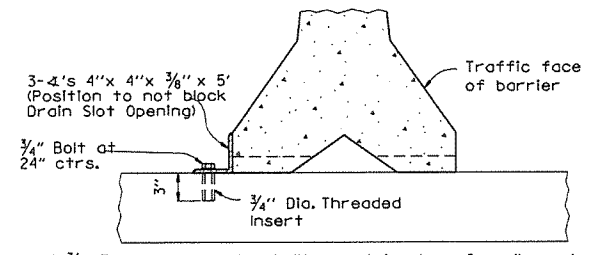
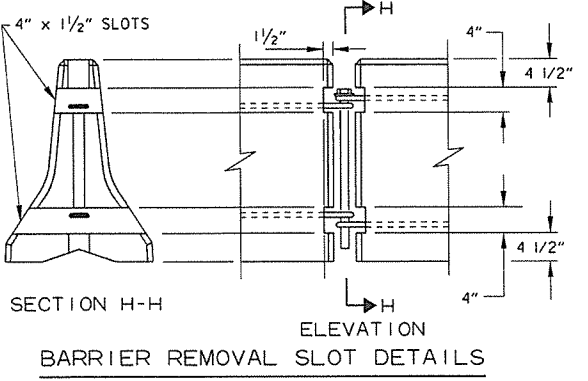
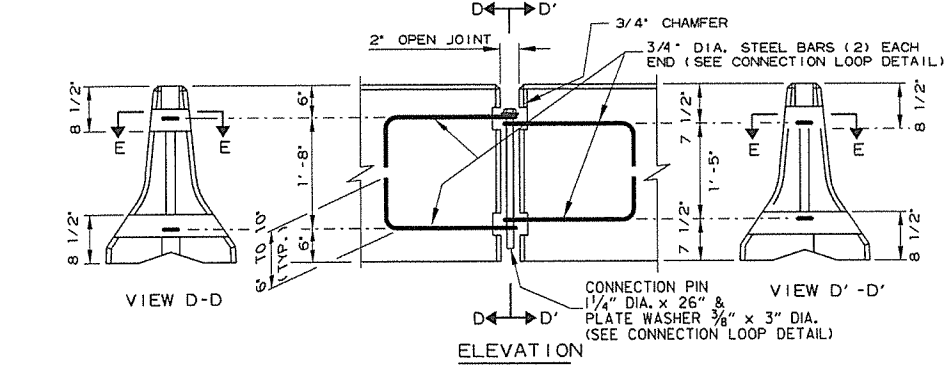
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-3

REINFORCING BAR TABLE PER BARRIER UNIT			
MARK	LOCATION	BAR SIZE (NO. BARS)	SKETCH
H-1	HORIZONTAL IN BARRIER TIED INSIDE V-1 BARS	#5 (6)	19'-3"
H-2	CENTERED ABOVE DRAIN SLOTS LONG. & TRANSVERSELY	#5 (6)	6'-6"
H-3	TIED ABOVE H-1 BARS TO SUPPORT H-2, TIED TO V-1	#4 (2)	1'-6"
S-1	OVER LIFT HOLES	#4 (2)	
S-2	HORIZ. AROUND SLOTS BETWEEN V-1'S & DRAIN SLOTS	#4 (2)	
V-1	VERTICAL IN BARRIER (3) EACH END & (2) AT EACH DRAIN SLOTS	#5 (16)	

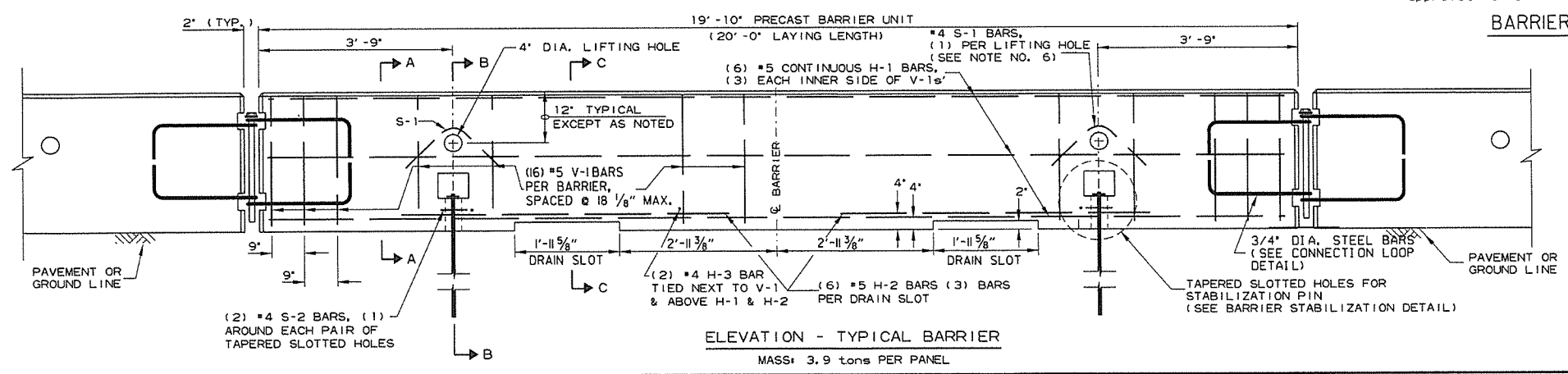


- General Notes**
- The contractor shall furnish the Precast Concrete Barrier Units and shall be responsible for the manufacture, shipment, storage, placement and removal. At the completion of the project, the precast units will remain the property of the contractor.
 - Materials shall meet the following minimum requirements:
Concrete: 2500 psi compressive strength at 28 days.
Reinforcing Steel: AASHTO M 31 or M 53, Grade 60
Structural Steel: AASHTO-M270 Grade 36 shall be used for the Connection Pin, Connection Loops, and Stabilization Pins. A One Piece Pin with a 3" rounded top may be used in place of the detailed Connection Pin.
Delineators: Delineators shall be mounted at 10' spacing on top of precast barrier.

In applications where barrier walls within 6 feet of a traffic lane, additional delineators shall be placed on the barrier at 10' spacing approximately one (1) foot from the top of the barrier. Delineators shall be on the AHTD Qualified Products List for Construction Concrete Barrier Markers. Delineator color shall be in accordance with the Manual Uniform Traffic Control Devices. Payment for delineators shall be considered included in the price bid per Lin. Ft. for "Furnishing and Installing Precast Concrete Barrier". The contractor shall certify to the Engineer that the material and the design used in the precast barrier units meets the requirements as shown on this standard drawing.
 - Other Precast Concrete Barriers that have been crash tested and approved by the Federal Highway Administration to meet the requirements of NCHRP-350 test level 3 or Manual For Assessing Safety Hardware (MASH) will be accepted in lieu of the barrier shown. Drain slots shall be provided as needed or as directed by the Engineer. The Contractor shall furnish a certification of NCHRP Report 350 or Manual For Assessing Safety Hardware (MASH) compliance for any other types of precast barrier to be used. The certification shall state that the precast concrete barrier meets the requirements of NCHRP Report 350 or Manual For Assessing Safety Hardware (MASH) and include a copy of the Federal Highway Administration's (FHWA) approval letter with all attachments. Precast concrete barrier units shall be fabricated and installed in accordance with crash testing and documentation provided in the FHWA approval letter. Mixing of shapes will not be allowed in a continuous line of units.
 - Dowel holes in pavement or bridge slabs that are to remain in place shall be filled. Holes in concrete pavement and bridge slabs shall be filled with an approved non-shrink epoxy grout. Holes in asphalt pavement shall be filled with an approved asphalt joint filler. Payment for drilling and filling holes to be included in the price for various barrier items.
 - Attach Units to Roadway Surface with Stabilization Pins and to Deck Slabs using bolts when required.
 - A 4" White PVC Sleeve may be used to form the Lifting Hole and if used the Sleeve is to be left in place.



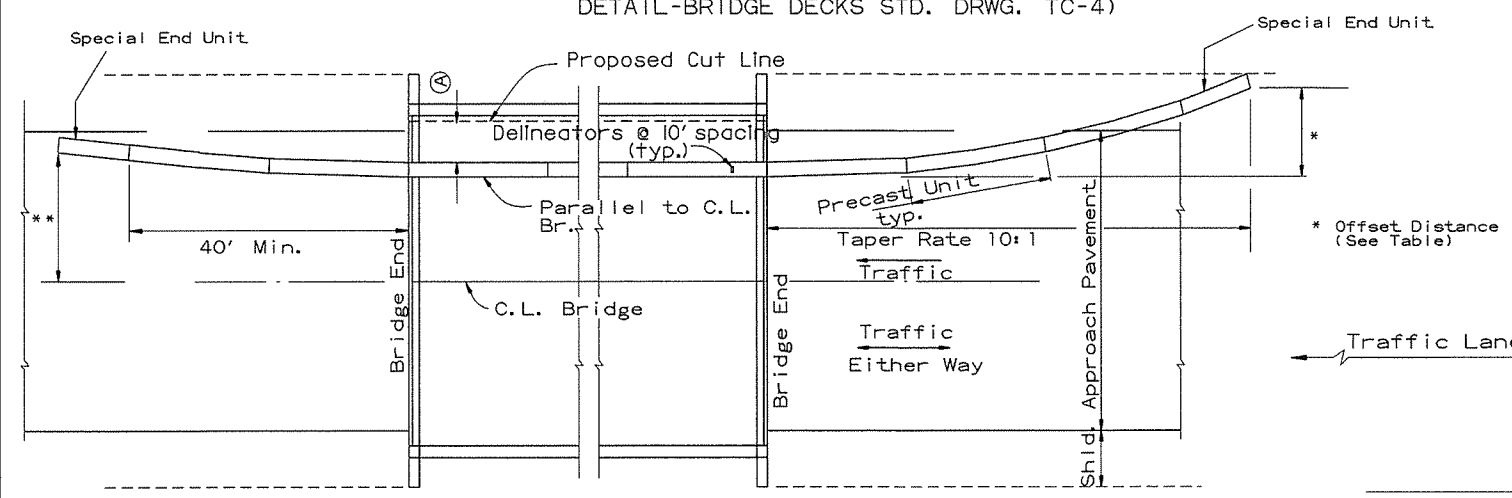
NOTE: 3/4" Threaded inserts shall be cast in place for all new bridge decks and drilled and grouted for existing bridge decks. Inserts shall have a minimum ultimate load capacity of 8000 lbs. In tension. After removal of barrier, bolts, and angles, the inserts shall be filled with approved non-shrink epoxy.



DATE	REVISION	FILMED
2-27-14	REVISED BARRIER STABILIZATION DETAIL	
10-15-09	ADDED REFERENCE TO MASH	
8-5-09	REV. NOTE 3 CONCERNING DRAIN SLOTS	
11-29-07	REVISED NOTE 3	
5-25-06	DELETED GENERAL NOTE 7	
11-18-04	REVISED BARRIER STABILIZATION DETAIL BRIDGE DECKS	
4-10-03	REVISED GENERAL NOTE 2	
8-22-02	ISSUED NEW DRAWING	

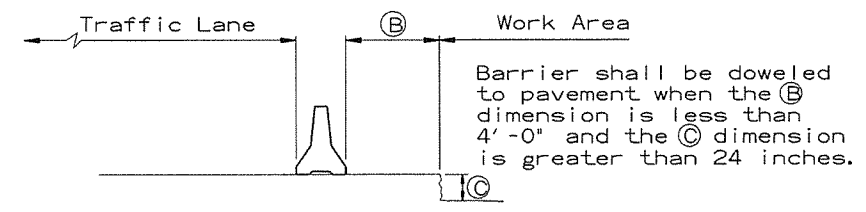
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER
STANDARD DRAWING TC-4

(A) 4 feet or greater preferred. If less than 4 feet, Precast Units shall be connected to slab (SEE BARRIER STABILIZATION DETAIL-BRIDGE DECKS STD. DRWG. TC-4)



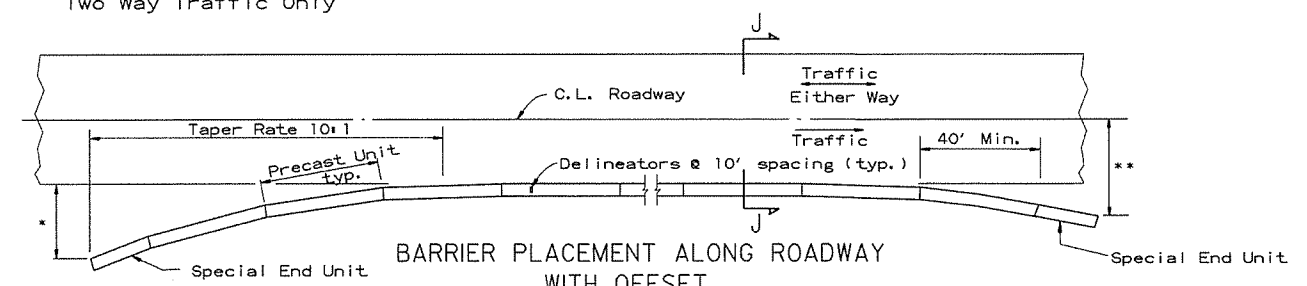
BARRIER PLACEMENT ALONG BRIDGE WITH OFFSET

No Scale



SECTION J-J
No Scale

** Offset Distance for Two Way Traffic Only



BARRIER PLACEMENT ALONG ROADWAY WITH OFFSET

No Scale

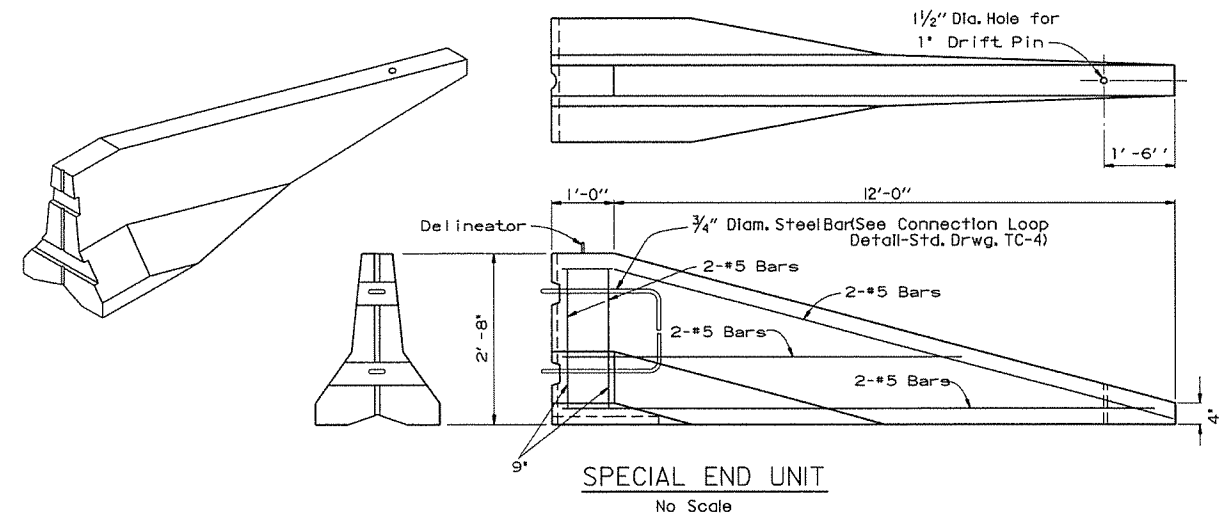
** Offset Distance For Two Way Traffic Only

* Offset Distance (See Table)

Offset Distance Table

Speed (MPH)	Offset Distance (FT.)
≤ 45	12
> 45	18

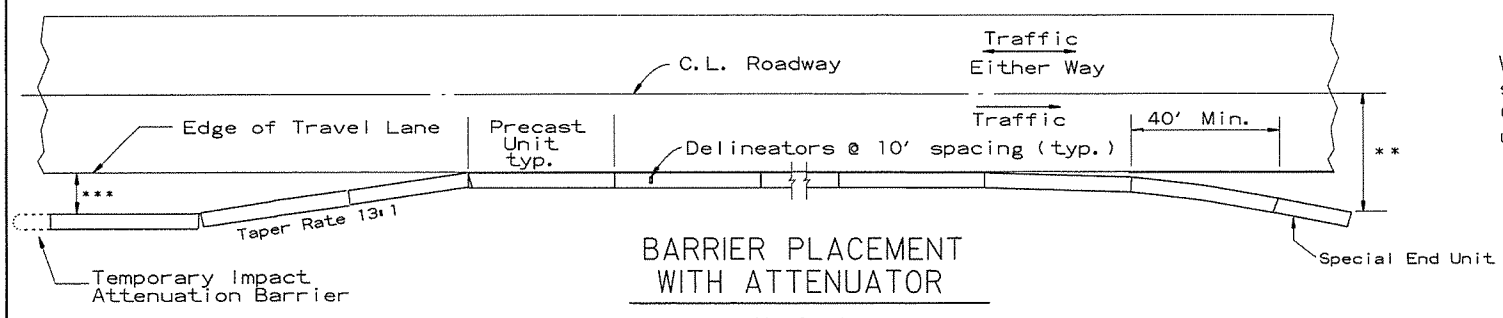
If offset distance is not attainable, then see 'Barrier Placement With Attenuator' Detail shown below.



SPECIAL END UNIT
No Scale

General Notes

When shown on the Plans, the ends of the Temporary Precast Concrete Barrier shall be protected with an NCHRP-350 or Manual For Assessing Safety Hardware (MASH) approved Crash Cushion. Payment for Crash Cushions shall be made under the item of "Temporary Impact Attenuation Barrier."



BARRIER PLACEMENT WITH ATTENUATOR

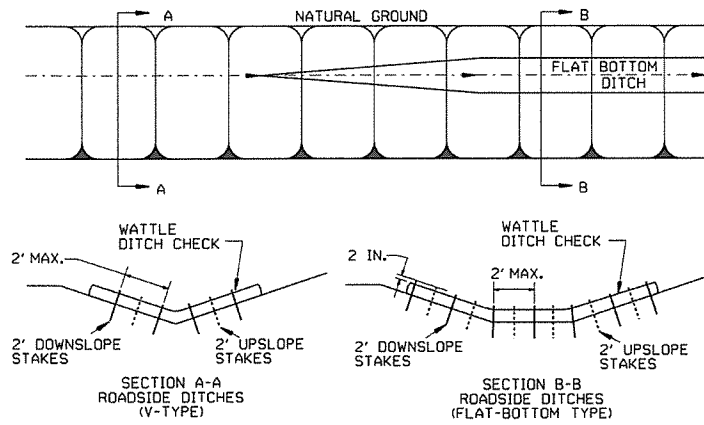
No Scale

** Offset Distance For Two Way Traffic Only

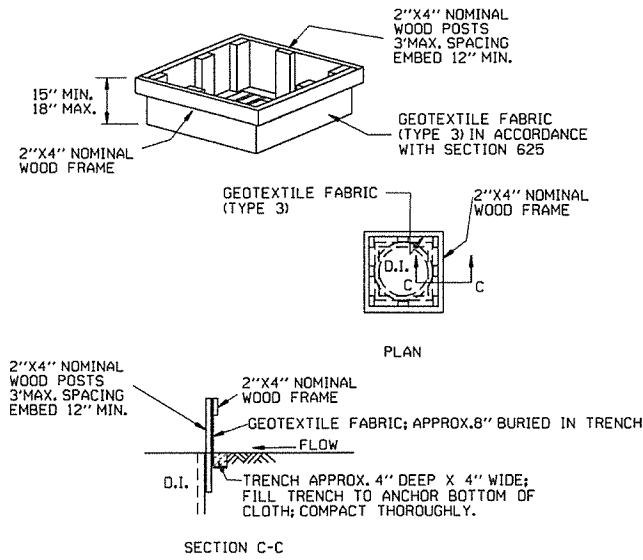
***Min. 3'-0" From Edge of Travel Lane to Nearest Edge of Attenuator

ARKANSAS STATE HIGHWAY COMMISSION		
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER		
STANDARD DRAWING TC-5		
10-15-09	ADDED REFERENCE TO MASH	
5-25-06	REVISED BARRIER PLACEMENT	
8-22-02	ISSUED NEW DRAWING	
DATE	REVISION	FILMED

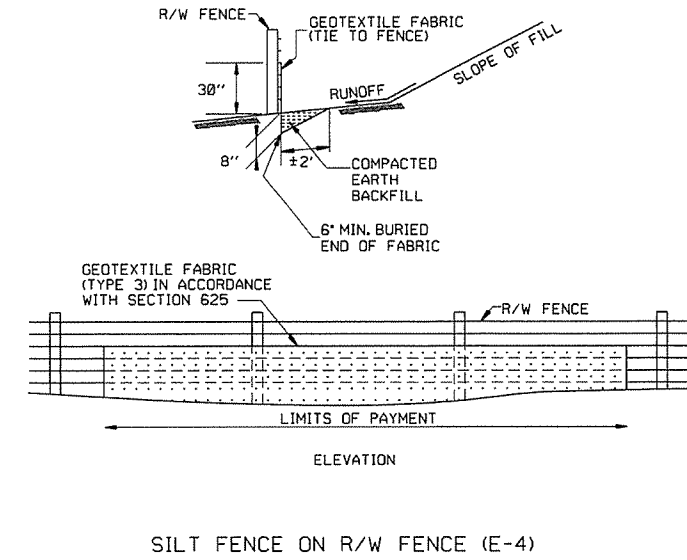
GENERAL NOTES
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



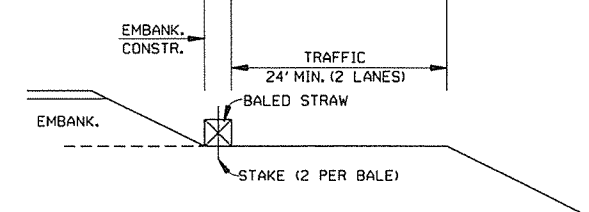
DROP INLET SILT FENCE (E-7)



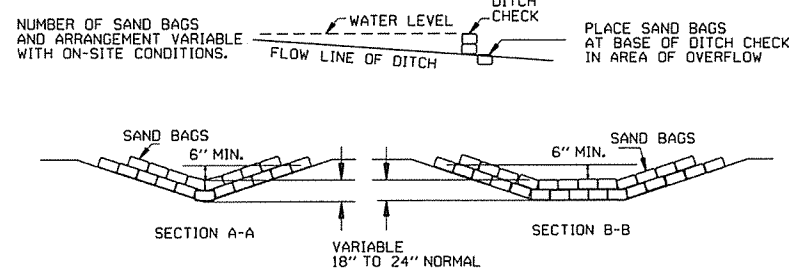
SILT FENCE ON R/W FENCE (E-4)

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

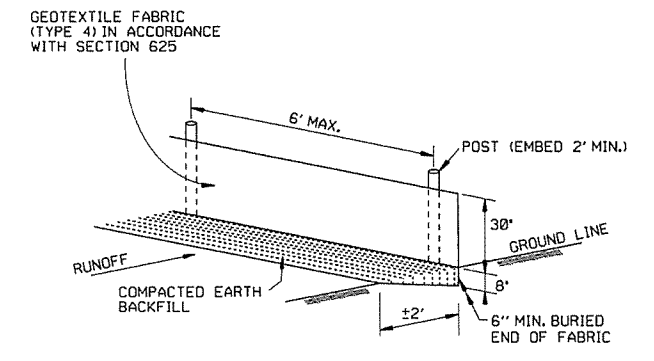
- GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
 2. NO GAPS SHALL BE LEFT BETWEEN BALES.
 3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED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



BALED STRAW FILTER BARRIER (E-2)

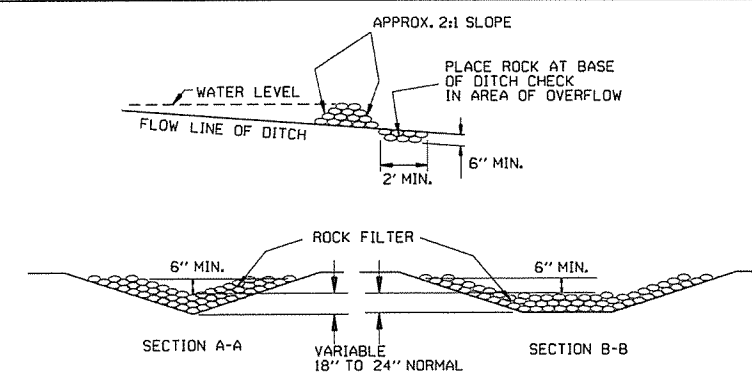


SAND BAG DITCH CHECK (E-5)



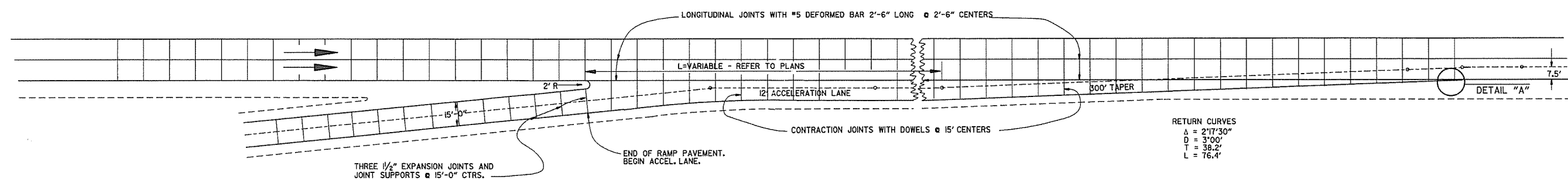
SILT FENCE (E-11)

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



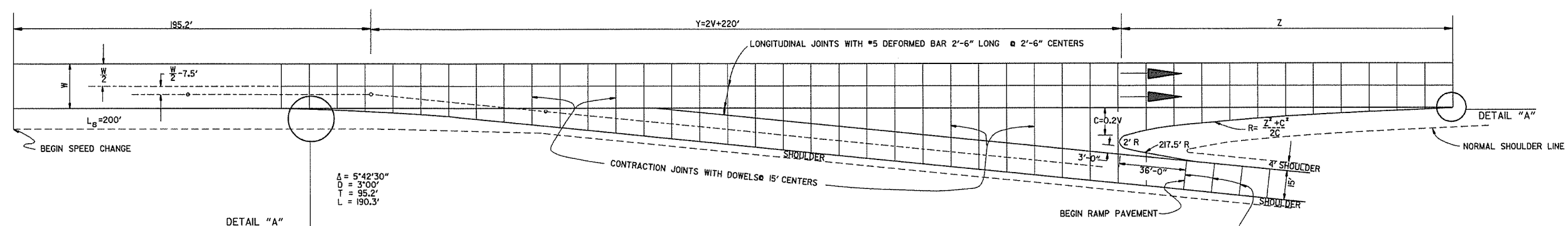
ROCK DITCH CHECK (E-6)

12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK		ARKANSAS STATE HIGHWAY COMMISSION
11-18-98	ADDED NOTES		
7-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)		
7-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95	TEMPORARY EROSION CONTROL DEVICES
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	STANDARD DRAWING TEC-1
DATE	REVISION	FILMED	



ENTRANCE RAMP

NOTE: JOINT SPACING ON THE MAIN LANES SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO THESE JOINT LAYOUTS. THE MAIN LANE JOINT SPACING MAY BE REDUCED TO A 12' MINIMUM.

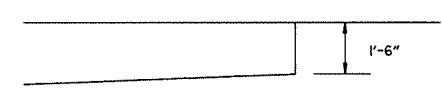


EXIT RAMP

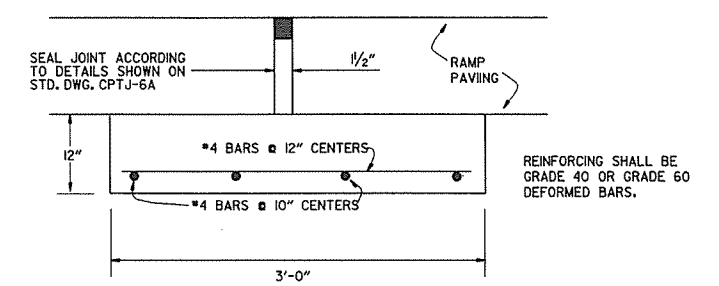
CONTRACTION JOINTS TO BE SPACED AT REGULAR INTERVALS AS ON NORMAL PAVEMENT.

EXIT RAMP

DESIGN SPEED V	Y	NOSE OFFSET C	LENGTH NOSE TAPER Z	RETURN RADIUS R	ADDITIONAL SURFACING SQ. YDS.
40	300.0	8.0	96.0	580.0	602.43
50	320.0	10.0	120.0	725.0	687.29
60	340.0	12.0	168.0	1182.0	790.55
70	360.0	14.0	210.0	1582.0	902.27



DETAIL "A"



DETAIL OF EXPANSION JOINT & JOINT SUPPORT

NOTE: THE EXPANSION JOINTS SHALL BE MEASURED AND PAID FOR AS P.C.C. PAVEMENT (RAMP THICKNESS), WHEN RAMP PAVING IS ASPHALT, EXPANSION JOINT IS NOT REQUIRED. THE JOINT SUPPORT MAY BE CONSTRUCTED WITH CLASS "A", "S", OR PAVING CONCRETE. PAYMENT FOR THE JOINT SUPPORT SHALL BE FOR THE CONTRACT UNIT PRICE BID FOR THE CLASS OF CONCRETE USED, ALL OTHER WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE JOINT SUPPORT SHALL BE INCLUDED IN THE PRICE BID FOR THE ABOVE ITEMS.

DATE	REVISION	DATE FILM'D
8-22-02	DELETED NOTE	
11-16-01	CORRECTED SPELLING ON ENTRANCE RAMP NOTE	
5-13-99	ADDED, EDITED AND DELETED NOTES	
11-03-94	ADDED NOTE RE: REINF. BARS	
10-1-92	ADDED DETAIL A & OTHER MINOR CHANGES	10-1-92
1-25-90	REVISED EXPANSION JOINT	1-25-90
7-15-88	CONFORM D TO 1988 SPECIFICATIONS	65C-7-15-88
3-2-81	ISSUED	511-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD TURNOUT

FOR

ENTRANCE & EXIT RAMPS (NON-REINFORCED)

STANDARD DRAWING TR-1A