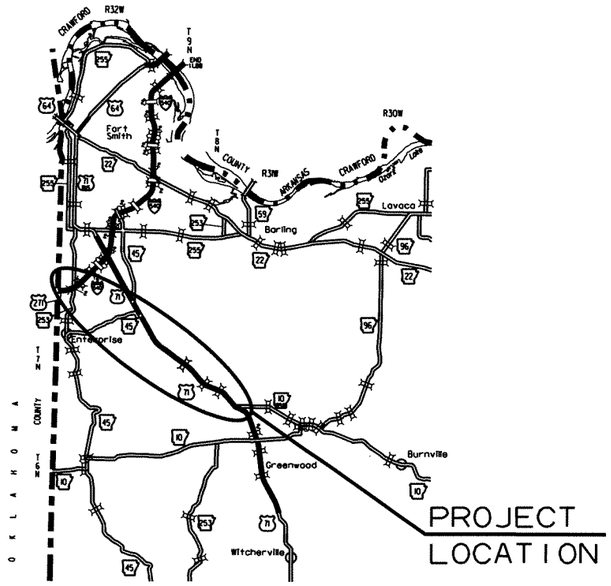
040645



VICINITY MAP

Crafton, Tull & Associates Inc.

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.		040645	1	30

(2) HWYS. 71 & 271 (SEL. SECS.) (CABLE MEDIAN BARRIER) (S)

"A PARTIALLY CONTROLLED ACCESS FACILITY"

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONSTRUCTION PLANS FOR STATE HIGHWAY

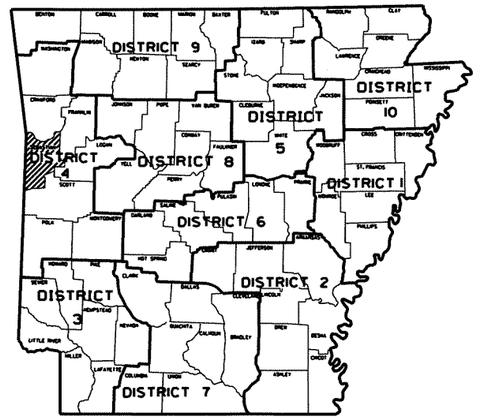
HWYS. 71 & 271 (SEL. SECS.) (CABLE MEDIAN BARRIER) (S)

SEBASTIAN COUNTY

ROUTE 71 SECTION 14
ROUTE 271 SECTION 1

JOB 040645

FED. AID PROJ. HSIP-0065(47)



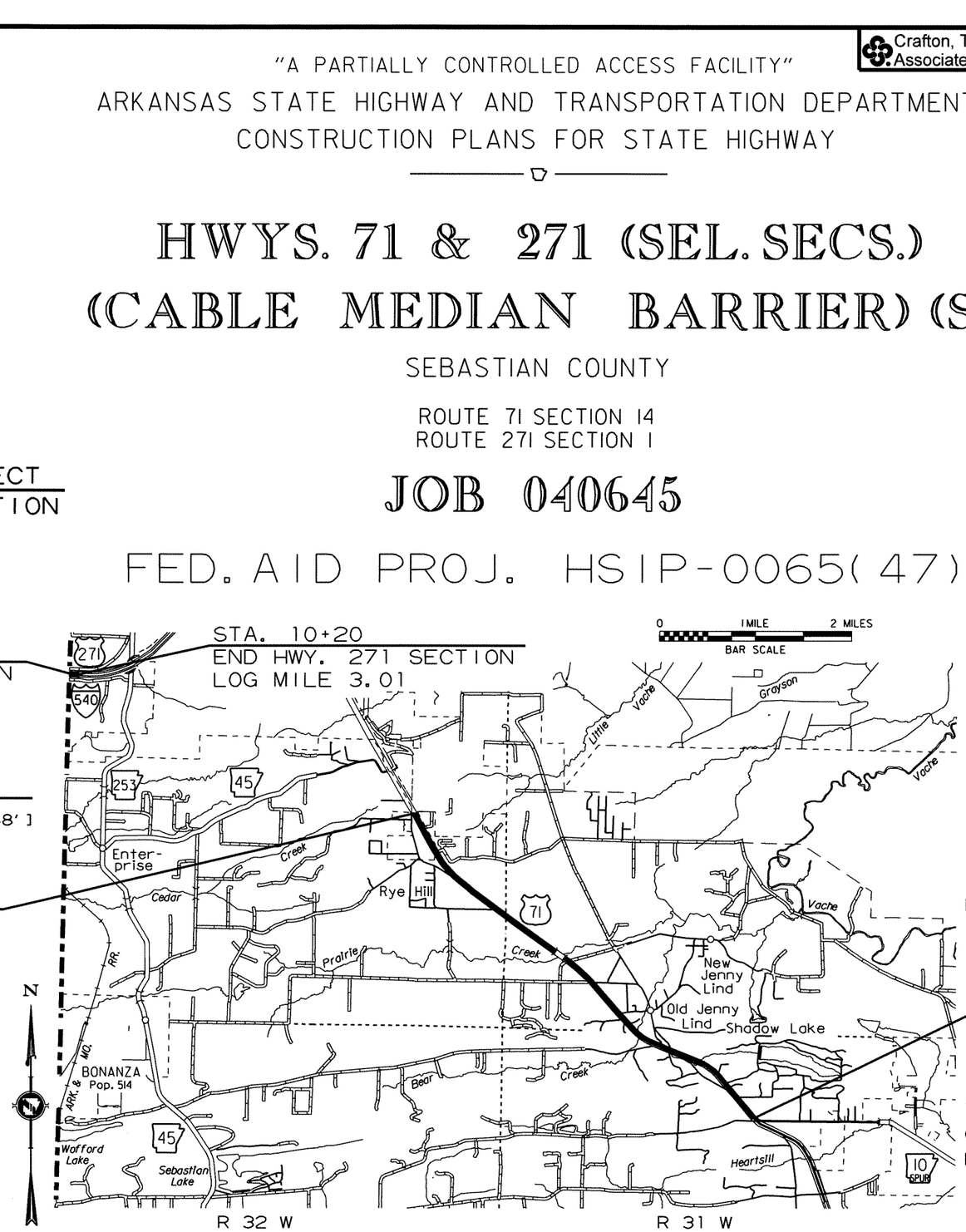
ARK. HWY. DIST. NO. 4

STA. 0+05
BEGIN HWY. 271 SECTION
LOG MILE 3.20

EXCEPTION

HWY. 71 STA. 311+20 - STA. 315+68 [448']

STA. 434+43
END HWY. 71 SECTION
LOG MILE 6.55



STA. 10+20
END HWY. 271 SECTION
LOG MILE 3.01

STA. 167+50
BEGIN HWY. 71 SECTION
LOG MILE 1.64

• DESIGN TRAFFIC DATA •

	HWY. 71	HWY. 271
DESIGN YEAR	2033	2033
2013 ADT	25,000	20,000
2033 ADT	33,000	26,500
2033 DHV	3630	2915
DIRECTIONAL DISTRIBUTION	60%	60%
TRUCKS	6%	7%
DESIGN SPEED	60 MPH	65 MPH

HWY. 71	HWY. 271
BEGINNING OF PROJECT	BEGINNING OF PROJECT
LAT. = N 35°13'22"	LAT. = N 35°17'31"
LONG. = W 94°18'20"	LONG. = W 94°26'06"
MID-POINT OF PROJECT	MID-POINT OF PROJECT
LAT. = N 35°14'42"	LAT. = N 35°17'31"
LONG. = W 94°20'18"	LONG. = W 94°26'00"
END OF PROJECT	END OF PROJECT
LAT. = N 35°16'16"	LAT. = N 35°17'31"
LONG. = W 94°22'14"	LONG. = W 94°25'53"

		HWY. 71					HWY. 271					TOTAL				
GROSS LENGTH OF PROJECT		26693.00	FEET	OR	5.055	MILES	1015.00	FEET	OR	0.192	MILES	27708.00	FEET	OR	5.247	MILES
NET	" " ROADWAY	26245.00	"	"	4.971	"	1015.00	"	"	0.192	"	27260.00	"	"	5.163	"
NET	" " BRIDGES	0.00	"	"	0.000	"	0.00	"	"	0.000	"	0.00	"	"	0.000	"
NET	" " PROJECT	26245.00	"	"	4.971	"	1015.00	"	"	0.192	"	27260.00	"	"	5.163	"

CERTIFICATE OF AUTHORIZATION
CRAFTON, TULL & ASSOCIATES, INC.
No. 109
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

P.E. 040645
NON-PART.

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Crafton, Tull & Associates Inc.

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.		040645	2	30

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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

INDEX OF SHEETS

GENERAL NOTES

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

2. 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.

3. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.

4. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.

5. 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.

6. ANY REQUIRED EROSION CONTROL MEASURES FROM WASTING MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE.

GOVERNING SPECIFICATIONS

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

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
100-2	MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
102-1	BIDDING REQUIREMENTS AND CONDITIONS
103-1	DETERMINATION OF DBE PARTICIPATION
105-1	CONSTRUCTION CONTROL MARKINGS
105-2	EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES
105-3	CONTROL OF WORK
107-1	WORKER VISIBILITY
108-1	LIQUIDATED DAMAGES
600-1	WATER FOR VEGETATION
603-1	MAINTENANCE OF TRAFFIC
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-2	INSPECTION OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 040645	CONCRETE DITCH PAVING
JOB 040645	COORDINATION OF WORK
JOB 040645	INTERNET BIDDING
JOB 040645	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 040645	MAINTENANCE OF TRAFFIC
JOB 040645	OFF-SITE RESTRAINING CONDITIONS FOR AMERICAN BURYING BEETLE
JOB 040645	SEQUENCE OF CONSTRUCTION
JOB 040645	SITE USE (A + C METHOD)
JOB 040645	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 040645	UTILITY ADJUSTMENTS
JOB 040645	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB 040645	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB 040645	WRSF TRAINING WORKSHOP

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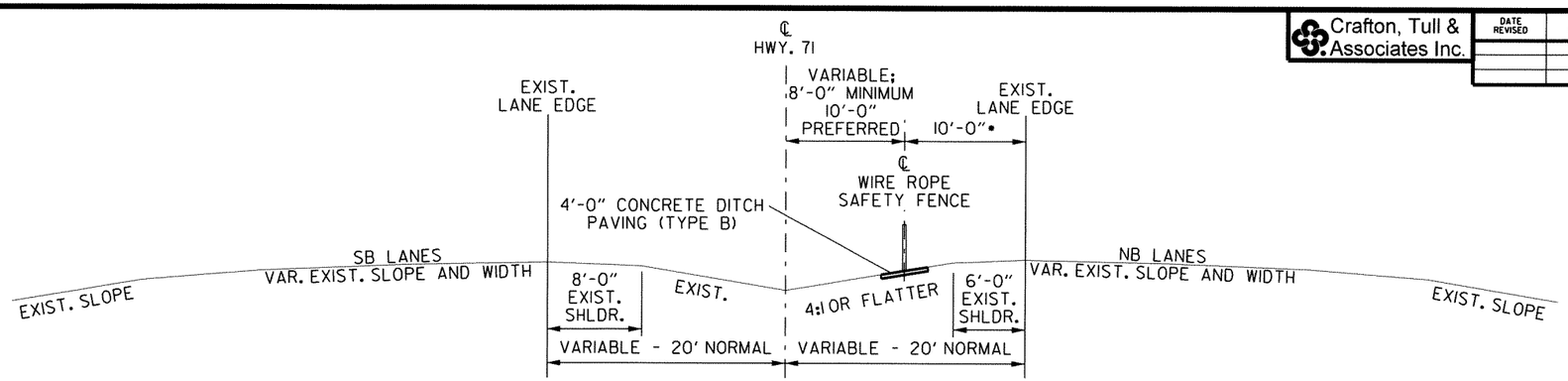
Crafton, Tull & Associates Inc.

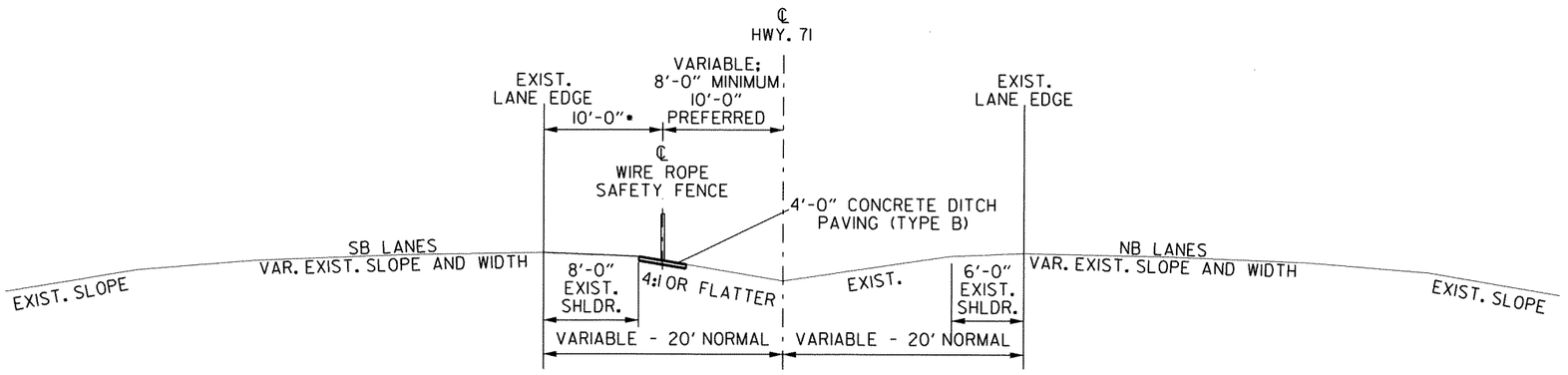
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		040645	3	30

(2) TYPICAL SECTIONS OF IMPROVEMENT



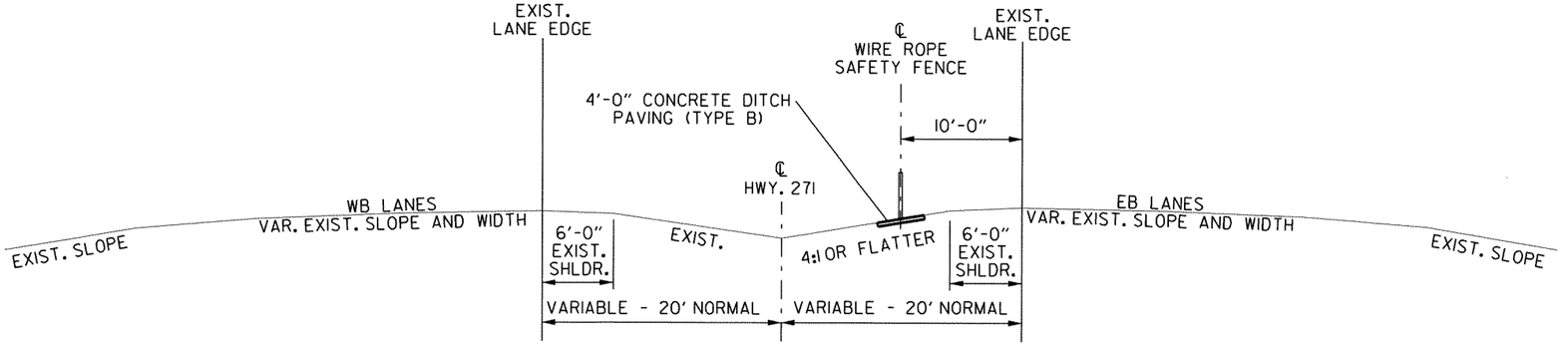
TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON NORTHBOUND LANES FORESLOPE

HWY. 71
STA. 172+50 TO 186+25, STA. 222+95 TO 233+65, STA. 236+15 TO 242+91, STA. 245+41 TO 269+67, STA. 272+17 TO 291+12, STA. 315+68 TO 351+45, STA. 352+70 TO 359+85, STA. 362+35 TO 368+85, STA. 370+30 TO 385+34, STA. 387+84 TO 407+17, STA. 409+67 TO 421+26, STA. 423+76 TO 433+69



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

HWY. 71
STA. 188+75 TO 197+33, STA. 199+83 TO 220+44, STA. 296+86 TO 310+45



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

HWY. 271
STA. 0+05 TO 10+20

NOTE:
•VARIES AT LANE TAPERS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

TYPICAL SECTIONS OF IMPROVEMENT

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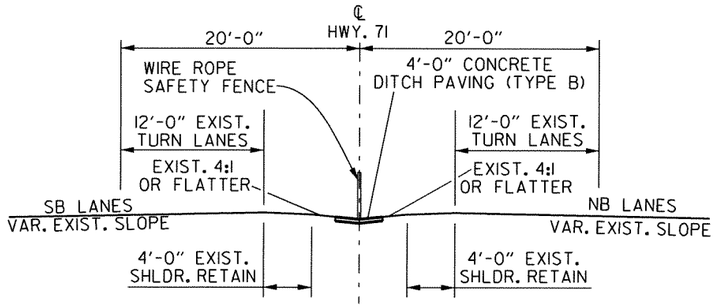
Crafton, Tull & Associates Inc.

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.		040645	4	30

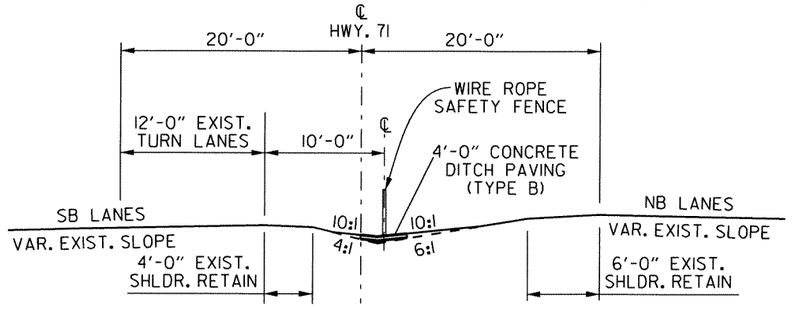
(2) TYPICAL SECTIONS OF IMPROVEMENT

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12



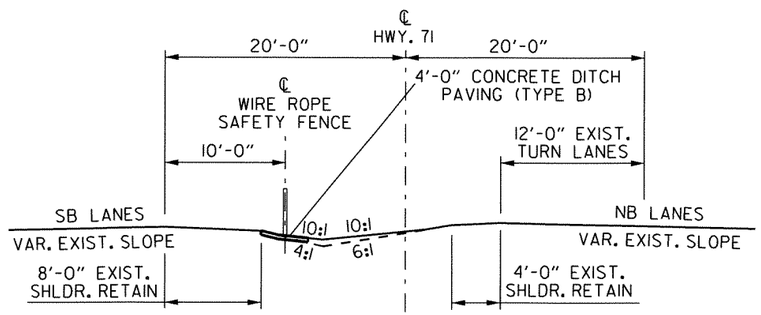
TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON CENTERLINE OF MEDIAN
AT EXISTING TURN LANE

HWY. 71
STA. 292+74 TO 295+25



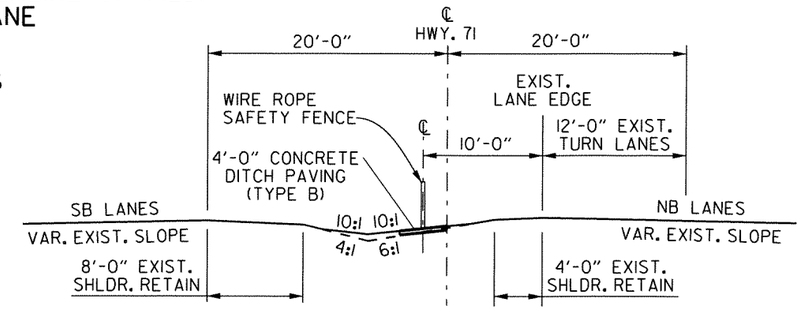
TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON SOUTHBOUND LANES FORESLOPE
AT EXISTING TURN LANE

HWY. 71
STA. 188+00 TO 188+75, STA. 199+08 TO 199+83,
STA. 296+11 TO 296+86



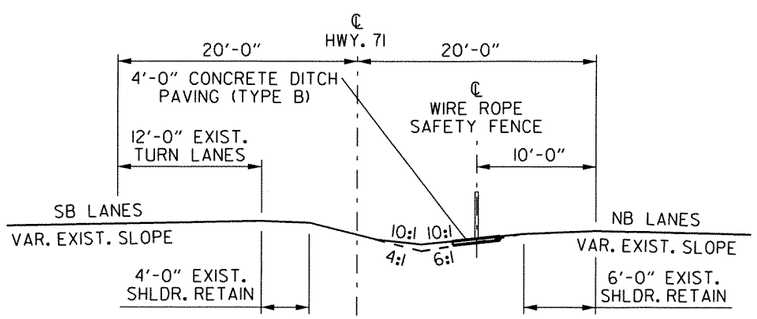
TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON SOUTHBOUND LANES FORESLOPE
ON OPPOSITE SIDE OF EXISTING TURN LANE

HWY. 71
STA. 197+33 TO 198+08, STA. 220+44 TO 221+20,
STA. 310+45 TO 311+20



TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON NORTHBOUND LANES FORESLOPE
AT EXISTING TURN LANE

HWY. 71
STA. 170+74 TO 171+45, STA. 186+25 TO 187+00, STA. 233+65 TO 234+40,
STA. 242+91 TO 243+66, STA. 269+67 TO 270+42, STA. 291+12 TO 291+87,
STA. 359+85 TO 360+60, STA. 385+34 TO 386+09, STA. 407+17 TO 407+92,
STA. 421+26 TO 422+01, STA. 433+69 TO 434+43



TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON NORTHBOUND LANES FORESLOPE
ON OPPOSITE SIDE OF EXISTING TURN LANE

HWY. 71
STA. 167+50 TO 170+74, STA. 222+20 TO 222+95, STA. 235+40 TO 236+15,
STA. 244+66 TO 245+41, STA. 271+42 TO 272+17, STA. 361+60 TO 362+35,
STA. 387+09 TO 387+84, STA. 408+92 TO 409+67, STA. 423+01 TO 423+76

TYPICAL SECTIONS OF IMPROVEMENT

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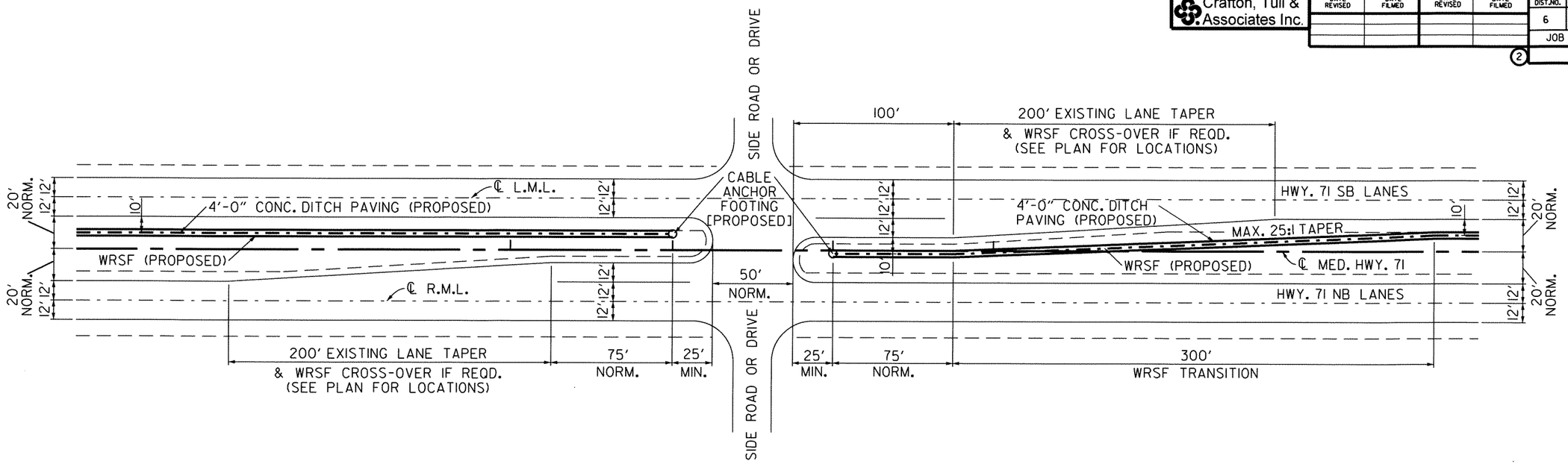
Crafton, Tull & Associates Inc.

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.		040645	5	30

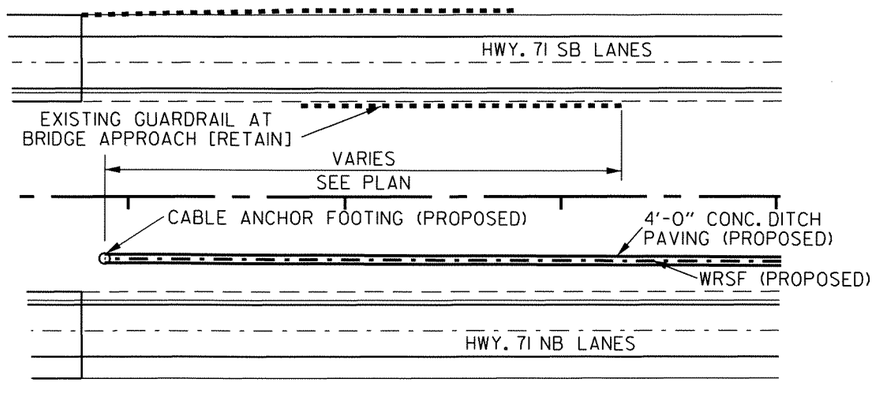
(2) SPECIAL DETAILS

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11/15/12



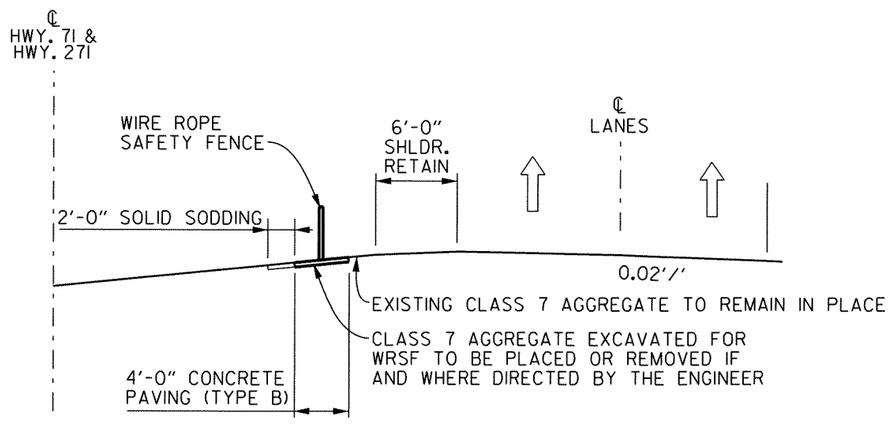
DETAIL AT MEDIAN CROSSINGS

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



DETAIL AT BRIDGE ENDS

AS SHOWN AT PRAIRIE CREEK



SOLID SODDING DETAIL

SPECIAL DETAILS

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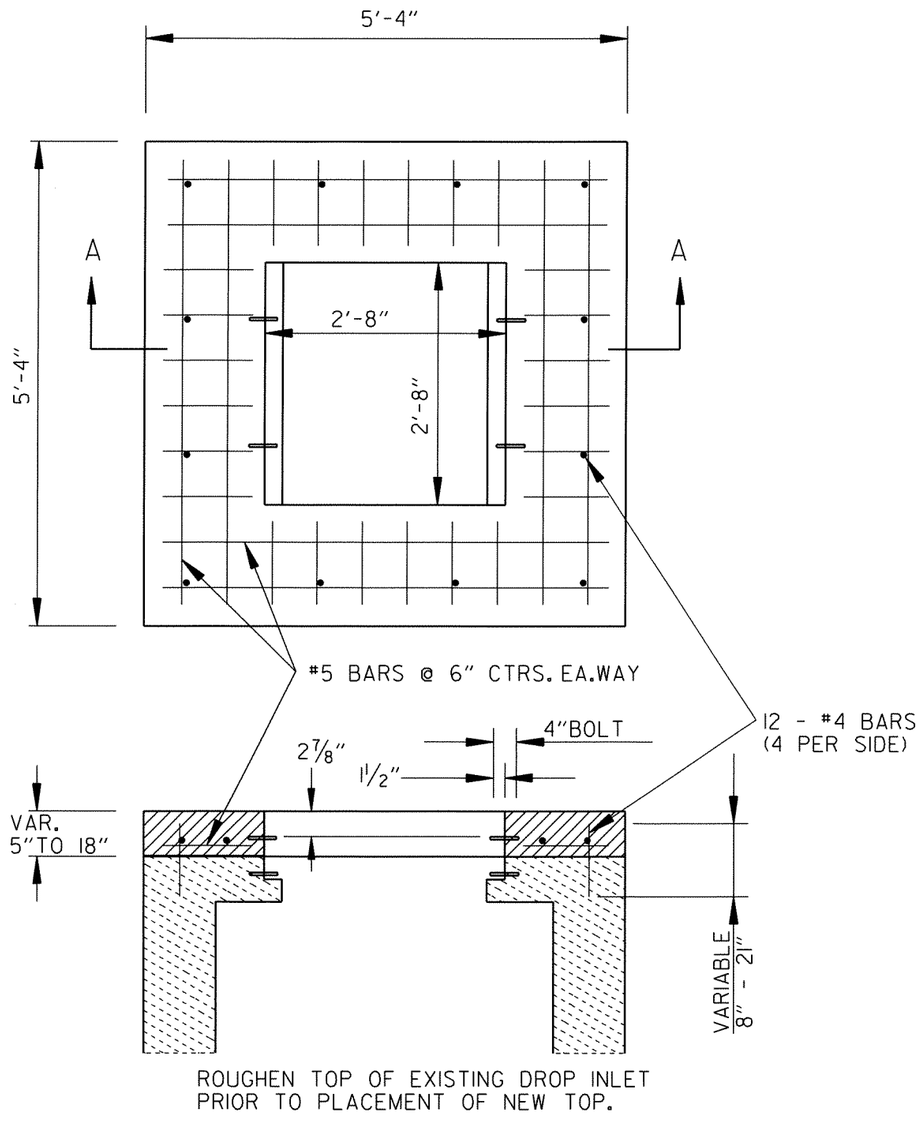
Crafton, Tull & Associates Inc.

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.		040645	6	30

(2) SPECIAL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12



SECTION A-A

NOTE:

ALL #4 AND #5 REINFORCING BARS TO HAVE 1½" COVER.
LARGER SIZES TO HAVE 2" COVER.

ADJUSTING DROP INLET TO GRADE

SPECIAL DETAILS

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Crafton, Tull & Associates Inc.

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.		040645	7	30

(2) TEMPORARY EROSION CONTROL DETAILS

PI 171+83.39
DELTA = 23°02' 14" RT.
D = 2°00' 00"
T = 583.82'
L = 1151.86'

STA. 167+50
BEGIN HWY. 71 SECTION
L.M. 1.64

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.I. 171+83.39
STURGEON RD.
(CO. RD. 52)

STA. 172+50
BEGIN WRSF
ON NB FORESLOPE

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.T. 177+51.43

STA. 187+00
END WRSF
ON NB FORESLOPE

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 188+00
BEGIN WRSF
ON SB FORESLOPE

CEDAR VALLEY DR.

STA. 171+45
END WRSF
ON NB FORESLOPE

STA. 167+50
BEGIN WRSF
ON NB FORESLOPE

P.I. 165+99.57
HWY. 10 SPUR
(CENTER ST.)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

REVISION BOX

DATE OF REVISION	REVISION

FLOW DIRECTION
SAND BAG DITCH CHECK (E 5)
DROP INLET SILT FENCE (E 7)
LEGEND

PI 211+50.50
DELTA = 26°35' 35" LT.
D = 2°00' 00"
T = 677.02'
L = 1329.65'

STA. 199+08
BEGIN WRSF
ON SB FORESLOPE

STA. 198+08
END WRSF
ON SB FORESLOPE

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.C. 204+73.48

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.I. 213+03.13

P.T. 211+50.50

SHADOW LAKE DR.

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

TEMPORARY EROSION CONTROL DETAILS STA. 160+00 - STA. 220+00

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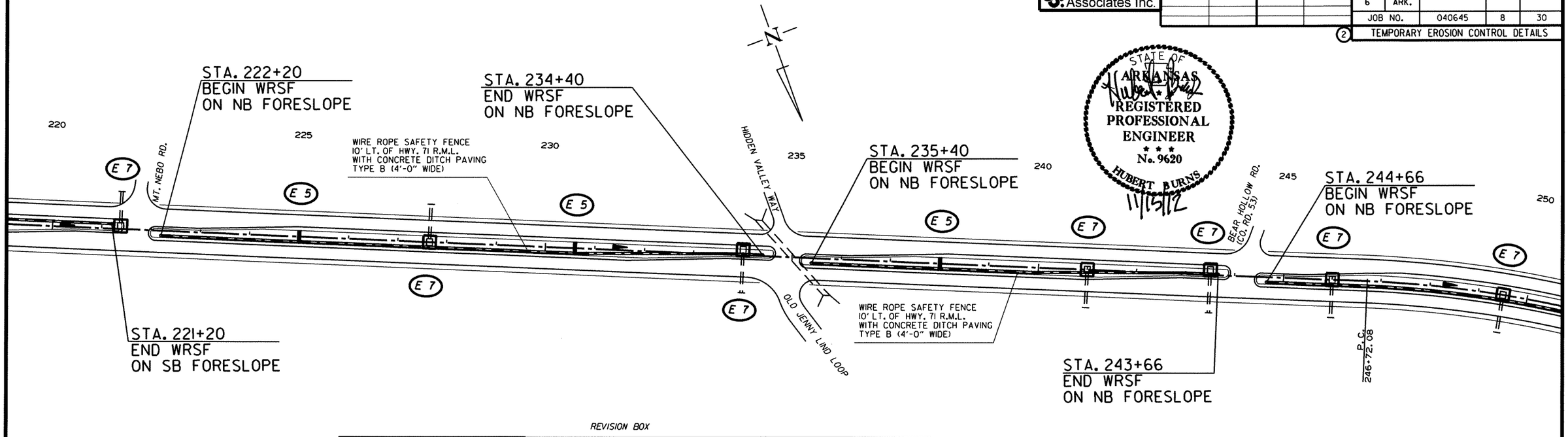
Crafton, Tull & Associates Inc.

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.		040645	8	30

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12



REVISION BOX

FLOW DIRECTION	SAND BAG DITCH CHECK	DROP INLET SILT FENCE
	E 5	E 7
	I	□
	LEGEND	

DATE OF REVISION	REVISION

PI 252+11.38
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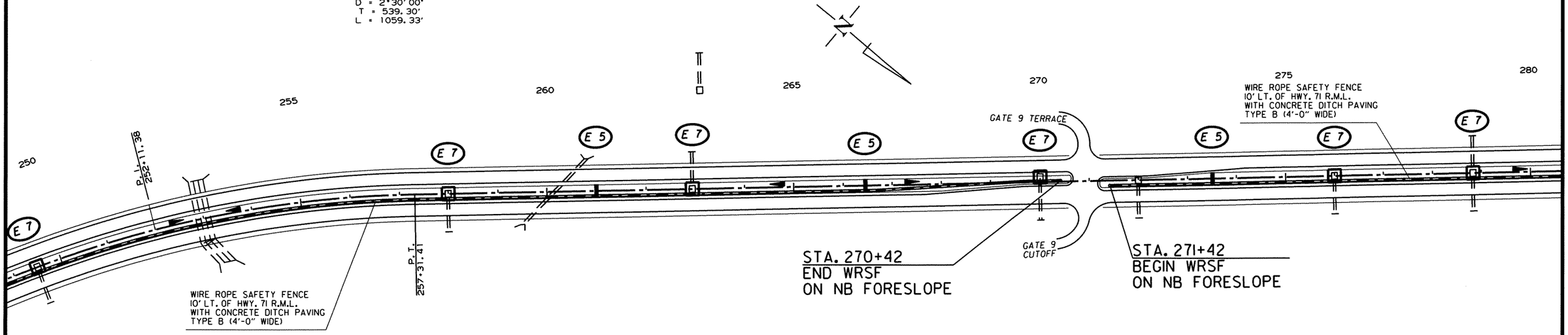
T = 539.30'
L = 1059.33'



TEMPORARY EROSION CONTROL DETAILS STA. 220+00 - STA. 280+00

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Crafton, Tull & Associates Inc.

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.		040645	9	30

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11/15/12

PI 297+79.72
DELTA = 8°58'20" LT.
D = 1°00'00"
T = 449.53'
L = 897.22'

STA. 292+74
BEGIN WRSF
ON ℄ MEDIAN

WIRE ROPE SAFETY FENCE
ON ℄ OF HWY. 71 MEDIAN
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 295+25
END WRSF
ON ℄ MEDIAN

STA. 291+87
END WRSF
ON NB FORESLOPE

STA. 296+11
BEGIN WRSF
ON SB FORESLOPE

P.C. 293+30.19
BONANZA RD. (CO. RD. 54)
P.T. 302+27.41
P.I. 297+79.72
OLD JENNY LIND LOOP
ELMWOOD CUTOFF

280 285 290 295 300 305 310

REVISION BOX

FLOW DIRECTION	SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
	E 5	E 7		

LEGEND

PI 313+17.75
DELTA = 4°03'12" LT.
D = 2°00'00"
T = 101.38'
L = 202.67'

STA. 311+20
END WRSF
ON SB FORESLOPE
BEGIN EXCEPTION
JOB 040645

STA. 315+68
BEGIN WRSF
ON NB FORESLOPE
END EXCEPTION
JOB 040645

P.C. 312+16.37
P.T. 314+19.04
P.I. 313+17.75
HUNKTOWN RD.
CREEK
PRAIRIE
ELMWOOD CUTOFF

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

PI 338+80.72
DELTA = 3°08'23" RT.
D = 1°00'00"
T = 157.03'
L = 313.97'

P.C. 337+23.69
P.T. 340+37.66
P.I. 338+80.72

310 315 320 325 330 335 340

TEMPORARY EROSION CONTROL DETAILS STA. 280+00 - STA. 340+00

USER: bc5100
DESIGN FILE: G:\12104803_Hwy71F+Sm\TRANSP\dgn\040645 Base.dgn
PLOTTED: 11/13/2012 14:25
SCALE: 200'

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Crafton, Tull & Associates Inc.

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.		040645	10	30

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11/15/12

PI 361+40.80
DELTA = 3°45'00" LT.
D = 1°00'00"
T = 187.57'
L = 375.00'

340 345 350 355 360 365 370

P.T. 340+37.66

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 351+45
END WRSF
ON NB FORESLOPE

STA. 352+70
BEGIN WRSF
ON NB FORESLOPE

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.C. 359+53.34

STA. 360+60
END WRSF
ON NB FORESLOPE

TREECE RD. (CO. RD. 177)

P.I. 361+40.80

STA. 361+60
BEGIN WRSF
ON NB FORESLOPE

P.T. 363+28.34

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 368+85
END WRSF
ON NB FORESLOPE

REVISION BOX

DATE OF REVISION	REVISION

FLOW DIRECTION
SAND BAG DITCH CHECK (E 5)
DROP INLET SILT FENCE (E 7)
LEGEND

PI 391+66.70
DELTA = 25°44'05" RT.
D = 1°00'00"
T = 1308.81'
L = 2573.47'

370 375 380 385 390 395 400

P.C. 378+57.90

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 370+30
BEGIN WRSF
ON NB FORESLOPE

STA. 386+09
END WRSF
ON NB FORESLOPE

OLD HWY. 71 (CO. RD. 179)

P.I. 391+66.70

STA. 387+09
BEGIN WRSF
ON NB FORESLOPE

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

TEMPORARY EROSION CONTROL DETAILS STA. 340+00 - STA. 400+00

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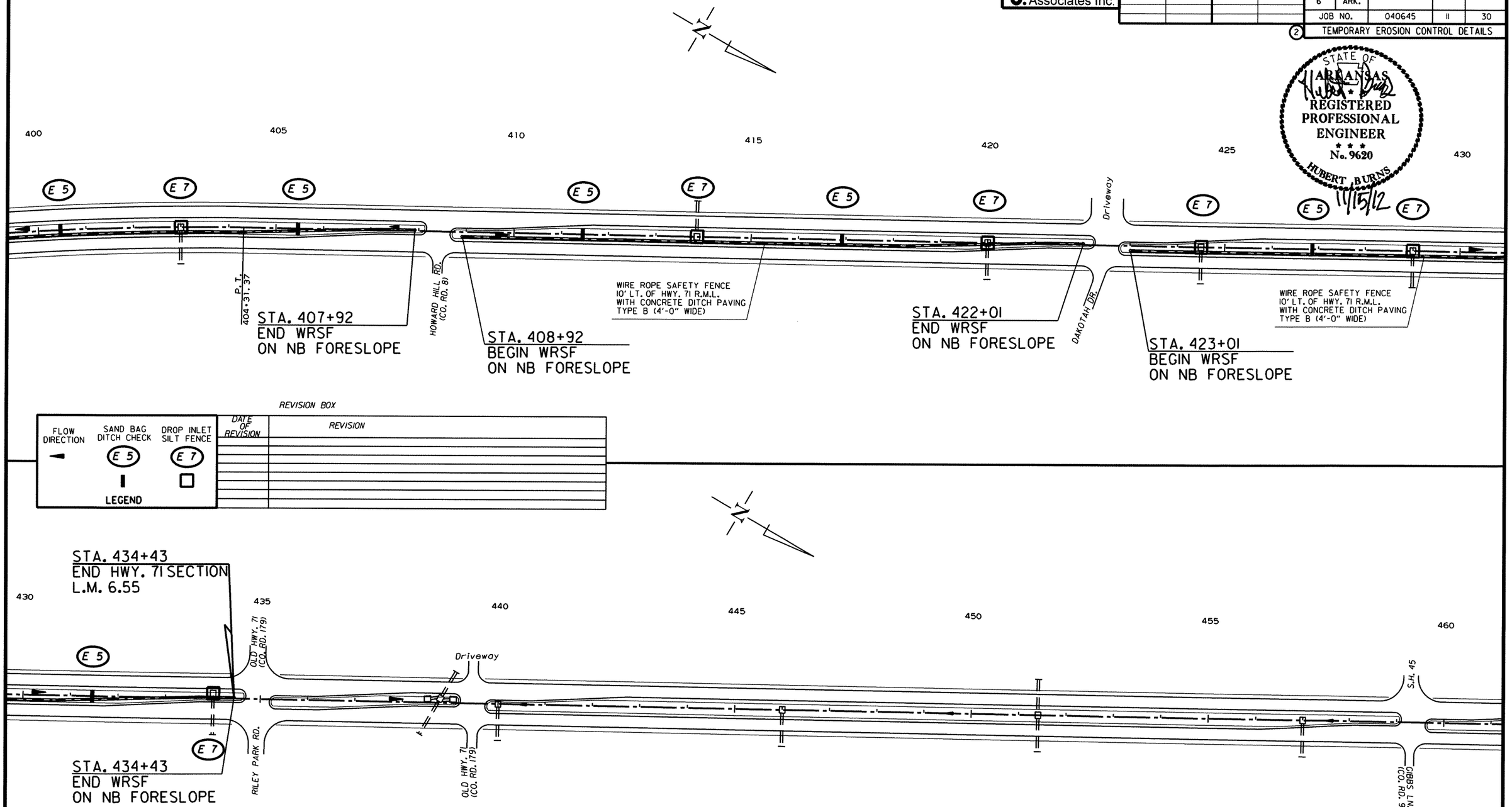
Crafton, Tull & Associates Inc.

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.		040645	11	30

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12



REVISION BOX

FLOW DIRECTION	SAND BAG DITCH CHECK	DROP INLET SILT FENCE
	E 5	E 7
	LEGEND	

DATE OF REVISION	REVISION

TEMPORARY EROSION CONTROL DETAILS STA. 400+00 - STA. 460+00

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SCALE: 200ft

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Crafton, Tull & Associates Inc.

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.		040645	12	30

(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11/15/12

SEQUOYAH COUNTY OKLAHOMA
CRAWFORD COUNTY ARKANSAS

N

STA. 0+05
BEGIN HWY. 271 SECTION
L.M. 3.20

P.O.B. 0+00.00

E 7 E 5 E 7

5 10

STA. 10+20
END HWY. 271 SECTION
L.M. 3.01

P.C. 10+91.10

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 271 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 0+05
BEGIN WRSF
ON EB FORESLOPE

STA. 10+20
END WRSF
ON EB FORESLOPE

REVISION BOX

FLOW DIRECTION	SAND BAG DITCH CHECK	DROP INLET SILT FENCE
◄	E 5	E 7
	I	□
	LEGEND	

DATE OF REVISION	REVISION

TEMPORARY EROSION CONTROL DETAILS STA. 0+00 - STA. 10+00

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Crafton, Tull & Associates Inc.

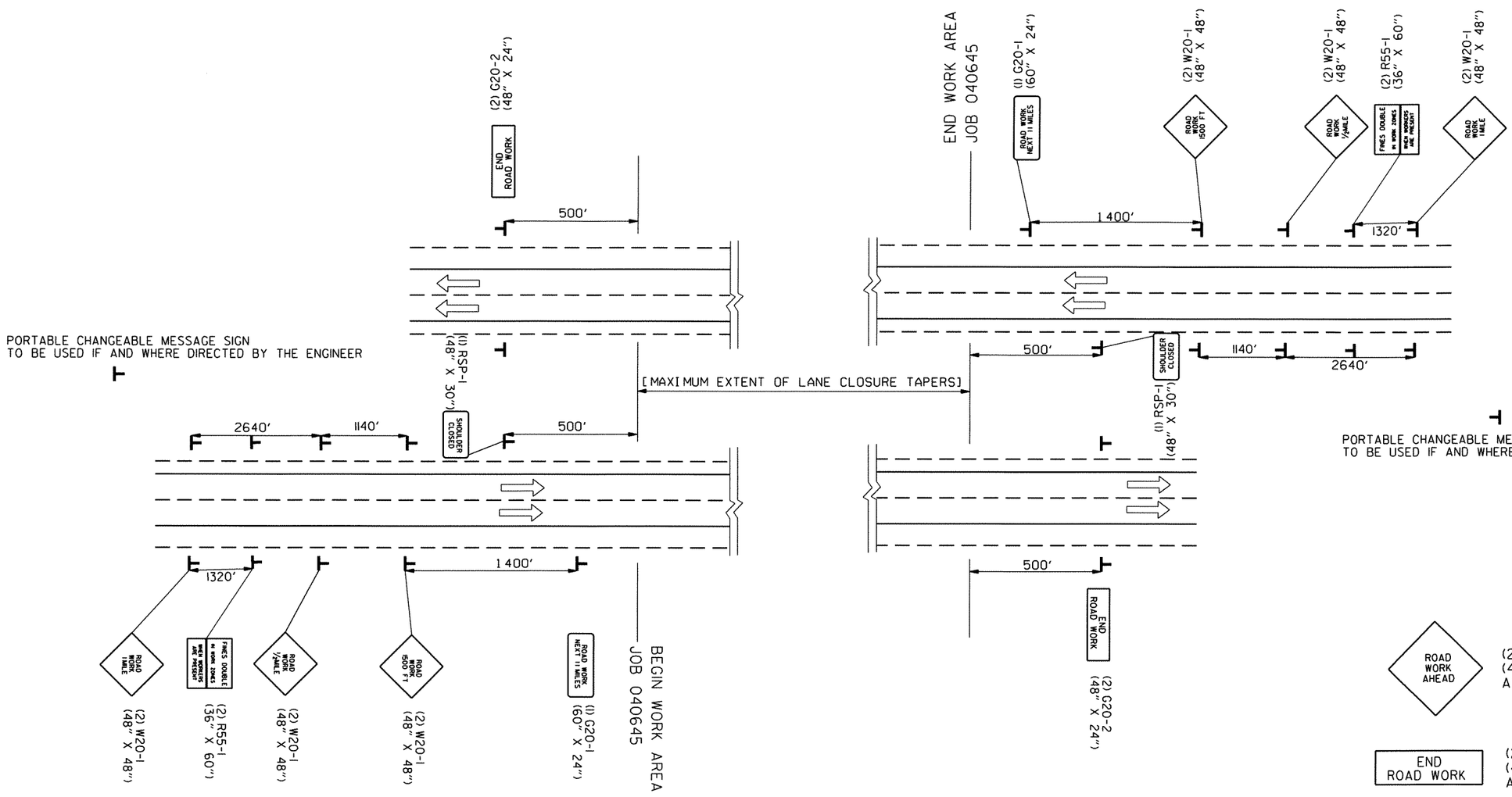
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		040645	13	30

(2) MAINTENANCE OF TRAFFIC

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

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



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

ROAD WORK AHEAD — (22)W20-1 (48" X 48") AT ALL CROSS ROADS

END ROAD WORK — (21)G20-2 (48" X 24") AT ALL CROSS ROADS

ADVANCE SIGNS AT BEGINNING AND END OF JOB ALL STAGES

MAINTENANCE OF TRAFFIC ADVANCE SIGNS AT JOB ENDS

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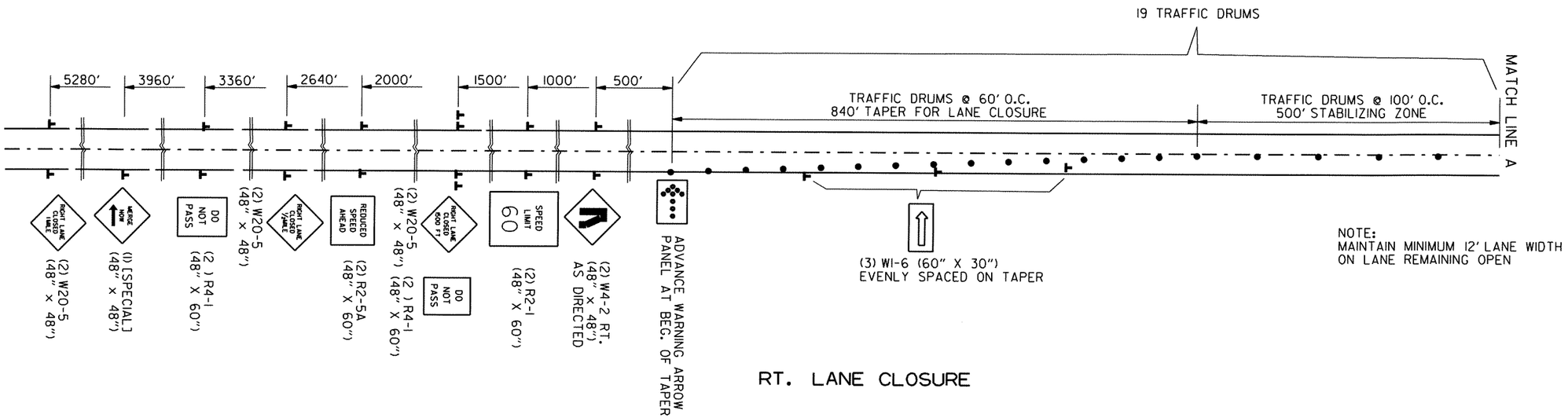
Crafton, Tull & Associates Inc.

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.		040645	14	30

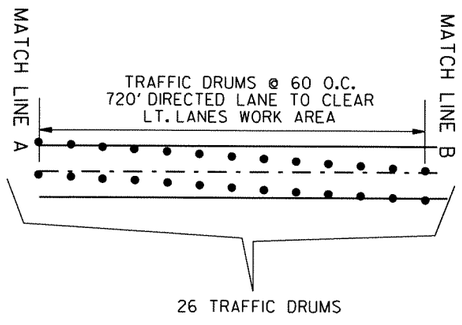
(2) MAINTENANCE OF TRAFFIC

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11/15/12



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

RT. LANE CLOSURE



DIVERSION FOR LT. LANE WORK ZONE

NOTE: ANY WORK ZONE OUTSIDE THE LIMITS OF THE LANE CLOSURE AREA MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER AND ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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

CABLE MEDIAN BARRIER MAINTENANCE OF TRAFFIC LANE CLOSURE

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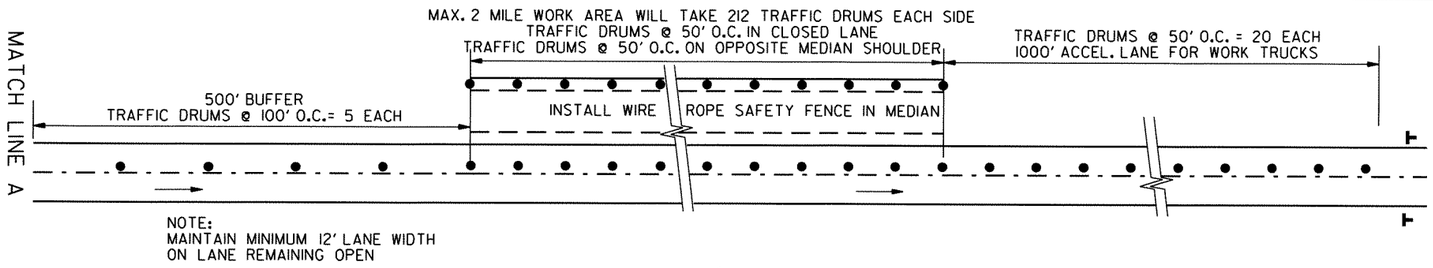
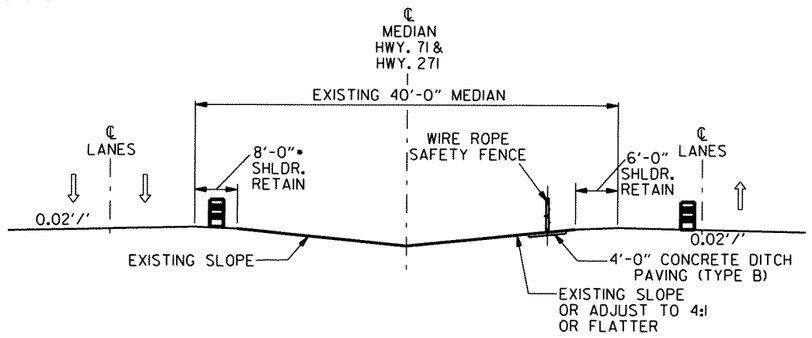
Crafton, Tull & Associates Inc.

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.		040645	15	30

(2) MAINTENANCE OF TRAFFIC





MOVABLE WORK ZONE FOR WRSF INSTALLATION

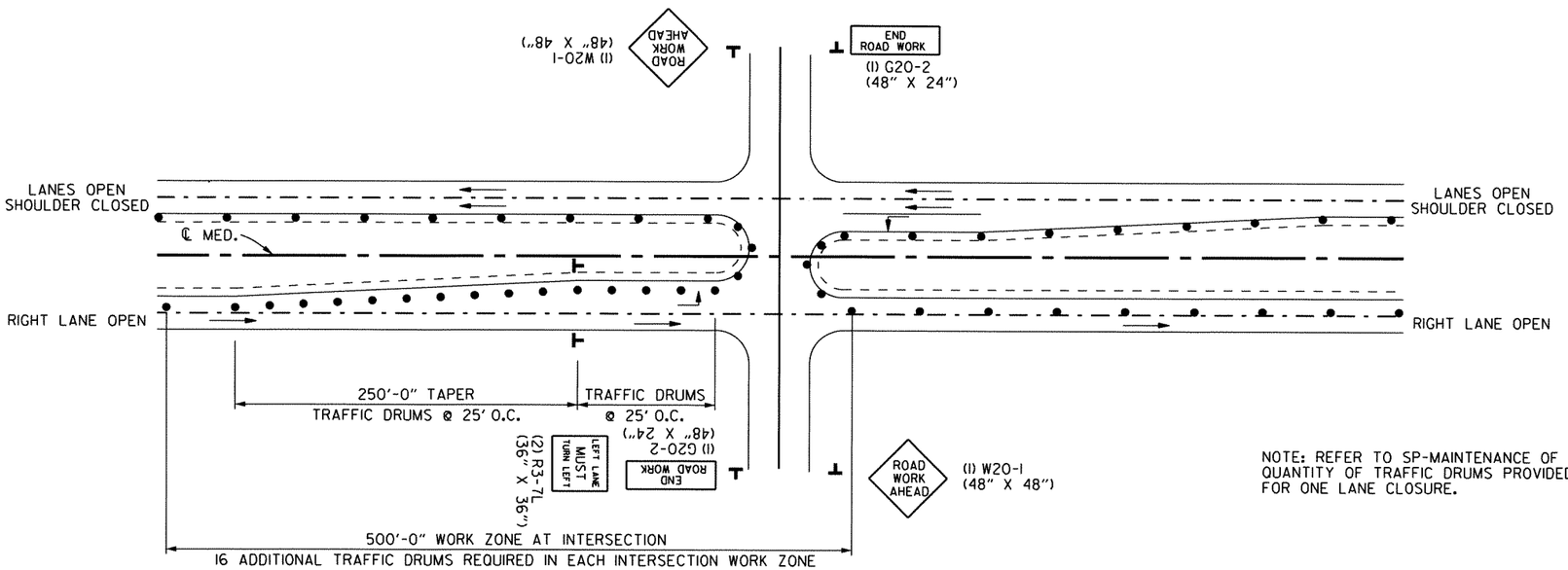
*6'-0" AT HWY. 271

SPEED LIMIT 55

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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

NOTE:
ANY WORK ZONE OUTSIDE THE LIMITS OF THE LANE CLOSURE AREA MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER AND ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE DEPARTMENT.



INTERSECTION WITHIN MOVABLE WORK ZONE FOR WRSF INSTALLATION

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

CABLE MEDIAN BARRIER MAINTENANCE OF TRAFFIC WORK AREAS

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SCALE: 214.2d

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Crafton, Tull & Associates Inc.

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.		040645	16	30

(2) QUANTITIES

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	ADVANCE WARNING ARROW PANEL	PORTABLE CHANGEABLE MESSAGE SIGN
				NO.	SQ. FT.	EACH	DAY	WEEK
W20-1	ROAD WORK 1 MILE	48"x48"	8	8	128.0			
W20-1	ROAD WORK 1/2 MILE	48"x48"	8	8	128.0			
W20-1	ROAD WORK 1500 FT.	48"x48"	8	8	128.0			
W20-1	ROAD WORK AHEAD	48"x48"	22	22	352.0			
G20-2	END ROAD WORK	48"x24"	29	29	232.0			
G20-1	ROAD WORK NEXT 5 MILES	60"x24"	2	2	20.0			
G20-1	ROAD WORK NEXT 1 MILE	60"x24"	2	2	20.0			
SPECIAL 1	MERGE NOW + ARROW	48"x48"	2	2	32.0			
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"	4	4	64.0			
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	4	4	64.0			
W20-5	RIGHT LANE CLOSED 1500 FEET	48"x48"	4	4	64.0			
W4-2	RIGHT LANE CLOSING GRAPHIC	48"x48"	4	4	64.0			
W1-6	LARGER ARROW	30"x60"	6	6	75.0			
R4-1	DO NOT PASS	48"x60"	8	8	160.0			
R55-1	FINES DOUBLE IN WORK ZONES	36"x60"	8	8	120.0			
R2-5A	REDUCED SPEED AHEAD	48"x60"	4	4	80.0			
R2-1	SPEED LIMIT 45 MPH	48"x60"	2	2	40.0			
R2-1	SPEED LIMIT 55 MPH	48"x60"	2	2	40.0			
RSP-1	SHOULDER CLOSED	48"x30"	4	4	40.0			
	TRAFFIC DRUMS		749			749		
	ADVANCE WARNING ARROW PANEL		1				47	
	PORTABLE CHANGEABLE MESSAGE SIGN		2					34
TOTALS:					1851.0	749	47	34

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

STRUCTURES

STATION	DESCRIPTION	DROP INLETS ADJUSTED TO GRADE
		EACH
186+50	HWY. 71 TYPE RM DROP INLET IN MED.	1
196+51	HWY. 71 DROP INLET IN MED.	1
198+00	HWY. 71 TYPE RM DROP INLET IN MED.	1
234+00	HWY. 71 TYPE RM DROP INLET IN MED.	1
243+50	HWY. 71 TYPE RM DROP INLET IN MED.	1
246+00	HWY. 71 DROP INLET IN MED.	1
270+00	HWY. 71 TYPE RM DROP INLET IN MED.	1
292+00	HWY. 71 TYPE RM DROP INLET IN MED.	1
296+00	HWY. 71 DROP INLET IN MED.	1
310+50	HWY. 71 TYPE RM DROP INLET IN MED.	1
362+00	HWY. 71 TYPE RM DROP INLET IN MED.	1
387+00	HWY. 71 TYPE RM DROP INLET IN MED.	1
424+50	HWY. 71 DROP INLET IN MED.	1
434+00	HWY. 71 TYPE RM DROP INLET IN MED.	1
TOTALS :		14

EROSION CONTROL

LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL					
	SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	DROP INLET SILT FENCE (E-7)	* SEDIMENT REMOVAL AND DISPOSAL
	ACRE	TON	ACRE	M. GAL.	ACRE	ACRE	ACRE	M. GAL.	BAG	LIN.FT.	CU. YD.
ENTIRE JOB	4.39	8.78	4.39	447.8	4.39	4.39	4.39	89.6	800	1026	59
*ENTIRE PROJECT TO BE USED IF AND WHERE											
DIRECTED BY THE ENGINEER	3.00	6.00	3.00	306.0	3.00				200	234	
TOTALS:	7.39	14.78	7.39	753.8	7.39	4.39	4.39	89.6	1000	1260	59

BASIS OF ESTIMATE:
LIME.....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G./ACRE OF SEEDING
WATER..... 20.4 M.G./ACRE OF TEMPORARY SEEDING
SAND BAG DITCH CHECKS.....20 BAGS / LOCATION
DROP INLET SILT FENCE.....18 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 STANDARD SPECIFICATIONS.

QUANTITIES

USER: bc5100
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SCALE: 1&1

Crafton, Tull & Associates Inc.

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.		040645	17	30

(2) QUANTITIES

EARTHWORK

STATION	STATION	LOCATION	COMPACTED EMBANKMENT
			CU. YD.
167+50	171+45	HWY. 71 MEDIAN	86
183+25	187+00	HWY. 71 MEDIAN	45
188+00	191+75	HWY. 71 MEDIAN	50
194+33	198+08	HWY. 71 MEDIAN	45
199+08	202+83	HWY. 71 MEDIAN	50
217+44	221+20	HWY. 71 MEDIAN	45
222+20	225+95	HWY. 71 MEDIAN	50
230+65	234+40	HWY. 71 MEDIAN	45
235+40	239+15	HWY. 71 MEDIAN	50
239+91	243+66	HWY. 71 MEDIAN	45
244+66	248+41	HWY. 71 MEDIAN	50
266+67	270+42	HWY. 71 MEDIAN	45
271+42	275+17	HWY. 71 MEDIAN	50
288+12	291+87	HWY. 71 MEDIAN	45
296+11	299+86	HWY. 71 MEDIAN	50
307+45	311+20	HWY. 71 MEDIAN	45
356+85	360+60	HWY. 71 MEDIAN	45
361+60	365+35	HWY. 71 MEDIAN	50
382+34	386+09	HWY. 71 MEDIAN	45
387+09	390+84	HWY. 71 MEDIAN	50
404+17	407+92	HWY. 71 MEDIAN	45
408+92	412+67	HWY. 71 MEDIAN	50
418+26	422+01	HWY. 71 MEDIAN	45
423+01	426+76	HWY. 71 MEDIAN	50
430+69	434+43	HWY. 71 MEDIAN	45
IF AND WHERE DIRECTED BY THE ENGINEER			500 *
TOTAL:			1721

NOTE: EARTHWORK QUANTITIES AT THE LOCATIONS SHOWN ABOVE SHALL BE PAID FOR AS PLAN QUANTITY.
* QUANTITIES ARE ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.
COMPACTION WILL BE AT THE SATISFACTION OF THE ENGINEER.

REMOVAL OF DISPOSAL OF POSTS

STATION	STATION	DESCRIPTION	REMOVAL AND DISPOSAL OF POSTS
			EACH
282+74	295+25	OBJECT MARKERS AND POSTS IN HWY. 71 MEDIAN	41
TOTAL:			41

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH	WIDTH	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
			FEET	FEET	SQ.YD.		M.GAL.
167+50.00	171+45.00	HWY. 71 R.M.L.	395	4	176	88	1.1
172+50.00	187+00.00	HWY. 71 R.M.L.	1450	4	644	322	4.1
188+00.00	198+08.00	HWY. 71 L.M.L.	1008	4	448	224	2.8
199+08.00	221+20.00	HWY. 71 L.M.L.	2212	4	983	492	6.2
222+20.00	234+40.00	HWY. 71 R.M.L.	1220	4	542	271	3.4
235+40.00	243+66.00	HWY. 71 R.M.L.	826	4	367	184	2.3
244+66.00	270+42.00	HWY. 71 R.M.L.	2576	4	1145	572	7.2
271+42.00	291+87.00	HWY. 71 R.M.L.	2045	4	909	454	5.7
292+74.00	295+25.00	HWY. 71 MEDIAN	251	4	112	56	0.7
296+11.00	311+20.00	HWY. 71 L.M.L.	1509	4	671	335	4.2
315+68.00	351+45.00	HWY. 71 R.M.L.	3577	4	1590	795	10.0
352+70.00	360+60.00	HWY. 71 R.M.L.	790	4	351	176	2.2
361+60.00	368+85.00	HWY. 71 R.M.L.	725	4	322	161	2.0
370+30.00	386+09.00	HWY. 71 R.M.L.	1579	4	702	351	4.4
387+09.00	407+92.00	HWY. 71 R.M.L.	2083	4	926	463	5.8
408+92.00	422+01.00	HWY. 71 R.M.L.	1309	4	582	291	3.7
423+01.00	434+43.00	HWY. 71 R.M.L.	1142	4	508	254	3.2
0+05.00	10+20.00	HWY. 271 R.M.L.	1015	4	451	226	2.8
TOTALS:					11429	5715	71.8

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
			LIN. FT.	EACH	LUMP SUM
167+50.00	171+45.00	HWY. 71 R.M.L.	395	2	
172+50.00	187+00.00	HWY. 71 R.M.L.	1450	2	
188+00.00	198+08.00	HWY. 71 L.M.L.	1008	2	
199+08.00	221+20.00	HWY. 71 L.M.L.	2212	2	
222+20.00	234+40.00	HWY. 71 R.M.L.	1220	2	
235+40.00	243+66.00	HWY. 71 R.M.L.	826	2	
244+66.00	270+42.00	HWY. 71 R.M.L.	2576	2	
271+42.00	291+87.00	HWY. 71 R.M.L.	2045	2	
292+74.00	295+25.00	HWY. 71 MEDIAN	251	2	
296+11.00	311+20.00	HWY. 71 L.M.L.	1509	2	
315+68.00	351+45.00	HWY. 71 R.M.L.	3577	2	
352+70.00	360+60.00	HWY. 71 R.M.L.	790	2	
361+60.00	368+85.00	HWY. 71 R.M.L.	725	2	
370+30.00	386+09.00	HWY. 71 R.M.L.	1579	2	
387+09.00	407+92.00	HWY. 71 R.M.L.	2083	2	
408+92.00	422+01.00	HWY. 71 R.M.L.	1309	2	
423+01.00	434+43.00	HWY. 71 R.M.L.	1142	2	
0+05.00	10+20.00	HWY. 271 R.M.L.	1015	2	
ENTIRE PROJECT					1.00
TOTALS:			25712	36	1.00

* THIS ITEM SHOWN FOR INFORMATION ONLY.

STATE OF ARKANSAS
HUBERT BURNS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
11/15/12

QUANTITIES

Crafton, Tull & Associates Inc.

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.		040645	18	30

(2) SUMMARY OF QUANTITIES & REVISIONS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF POSTS	41	EACH
210	COMPACTED EMBANKMENT	1721	CU.YD.
601	MOBILIZATION	1.00	LUMP SUM
SP, SS & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	1851	SQ.FT.
SS & 604	TRAFFIC DRUMS	749	EACH
SS & 604	ADVANCE WARNING ARROW PANEL	47	DAY
SP, SS & 604	PORTABLE CHANGEABLE MESSAGE SIGN	34	WEEK
SP & 605	CONCRETE DITCH PAVING (TYPE B)	11429	SQ.YD.
610	DROP INLETS ADJUSTED TO GRADE	14	EACH
620	LIME	15	TON
620	SEEDING	7.39	ACRE
620	MULCH COVER	11.78	ACRE
SS & 620	WATER	915.2	M.GAL.
621	TEMPORARY SEEDING	4.39	ACRE
621	SAND BAG DITCH CHECKS	1000	BAG
621	DROP INLET SILT FENCE	1260	LIN.FT.
621	SEDIMENT REMOVAL AND DISPOSAL	59	CU. YD.
623	SECOND SEEDING APPLICATION	7.39	ACRE
624	SOLID SODDING	5715	SQ.YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE	25712	LIN.FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM

REVISIONS

DATE	REVISION	SHEET NUMBER

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SUMMARY OF QUANTITIES & REVISIONS

Crafton, Tull & Associates Inc.

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.		040645	19	30

(2) PLAN SHEET

PI 171+83.39
DELTA = 23°02'14" RT.
D = 2°00'00"
T = 583.82'
L = 1151.86'

STA. 167+50
BEGIN HWY. 71 SECTION
L.M. 1.64

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.I. 171+83.39
STURGEON RD.
(CO. RD. 52)

STA. 172+50
BEGIN WRSF
ON NB FORESLOPE

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 187+00
END WRSF
ON NB FORESLOPE

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.T. 177+51.43

CEDAR VALLEY DR.

STA. 188+00
BEGIN WRSF
ON SB FORESLOPE

STA. 167+50
BEGIN WRSF
ON NB FORESLOPE

STA. 171+45
END WRSF
ON NB FORESLOPE

P.C. 165+99.57

HWY. 10 SPUR
(CENTER ST.)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

STA. 165+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
RETAIN

STA. 167+00 IN PLACE
24" R.C. PIPE CULVERT
IN MED. WITH 24" GRATE LT. & RT.
RETAIN

STA. 178+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
RETAIN

STA. 178+66 IN PLACE
TRIPLE 36" R.C. PIPE CULVERT
WITH F.E.S. LT. & RT.
RETAIN

STA. 178+84 IN PLACE
DBL. 30" R.C. PIPE CULVERT WITH
HDWL. ON LT. & F.E.S. RT.
RETAIN

STA. 184+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
RETAIN

STA. 186+50 IN PLACE
18" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH 18" GRATE TO RT.
RETAIN AND ADJUST TO GRADE

PI 211+50.50
DELTA = 26°35'35" LT.
D = 2°00'00"
T = 677.02'
L = 1329.65'

STA. 199+08
BEGIN WRSF
ON SB FORESLOPE

STA. 198+08
END WRSF
ON SB FORESLOPE

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.C. 204+73.48

P.T. 217+53.50

P.I. 218+03.13

SHADOW LAKE DR.

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 190+54 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. LT. & RT.
RETAIN

STA. 196+51 IN PLACE
36" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. LT. & RT.
RETAIN AND ADJUST TO GRADE

STA. 198+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 203+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 209+00 IN PLACE
6' X 6' R.C. BOX CULVERT
(45° LT. FWD. SKEW)
RETAIN

STA. 210+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
RETAIN

STA. 215+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 217+35 IN PLACE
DBL. 8' X 4' R.C. BOX CULVERT
(45° LT. FWD. SKEW 98')
(28° LT. FWD. SKEW 94')
RETAIN

PLAN SHEET STA. 160+00 - STA. 220+00

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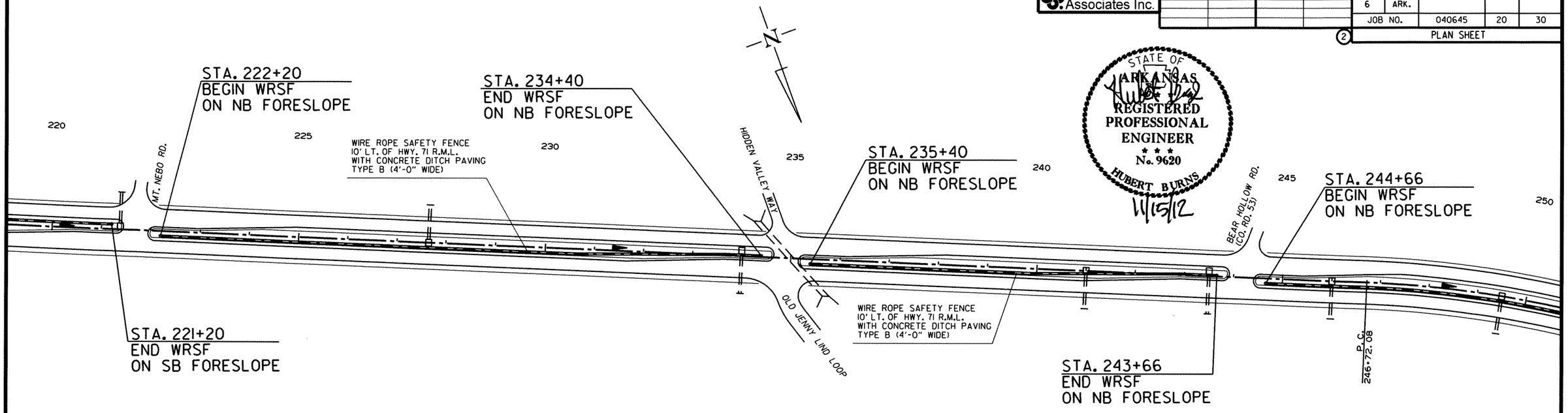
Crafton, Tull & Associates Inc.

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.		040645	20	30
				(2)	PLAN SHEET			

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12



STA. 221+38 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
RETAIN

STA. 227+65 IN PLACE
30" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON LT.
RETAIN

STA. 234+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

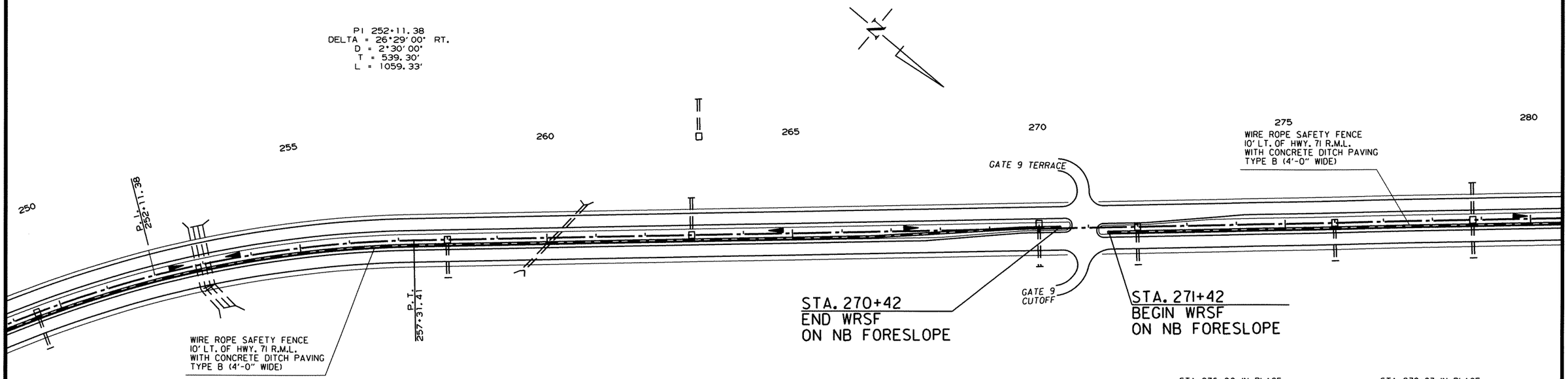
STA. 235+00 IN PLACE
10' X 10' R.C. BOX CULVERT WITH
(45° RT. FWD. SKEW)
WITH 2:1 WINGS ON LT.
& 3:1 WINGS ON RT.
RETAIN

STA. 241+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 243+50 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 246+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 249+50 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN



STA. 253+00 IN PLACE
TRIPLE 10' X 10' R.C. BOX CULVERT
(RT. FWD. SKEW 58° ON RT. END)
RETAIN

STA. 258+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 260+15 IN PLACE
5' X 4' R.C. BOX CULVERT
(45° LT. FWD. SKEW)
RETAIN

STA. 262+94 IN PLACE
30" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON LT.
RETAIN

STA. 270+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 272+00 IN PLACE
24" R.C. PIPE CULVERT WITH PLUGGED
& COVERED DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 276+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 278+83 IN PLACE
36" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. LT. & RT.
RETAIN

PLAN SHEET STA. 220+00 - STA. 280+00

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Crafton, Tull & Associates Inc.

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.		040645	21	30

(2) PLAN SHEET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

PI 297+79.72
DELTA = 8°58'20" LT.
D = 1°00'00"
T = 449.53'
L = 897.22'

STA. 292+74 TO STA. 295+25 IN PLACE
41 OBJECT MARKERS AND POSTS IN MEDIAN
REMOVE

STA. 292+74
BEGIN WRSF
ON ℄ MEDIAN

WIRE ROPE SAFETY FENCE
ON ℄ OF HWY. 71 MEDIAN
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

280 285 290 295 300 305 310

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

P.C. 293+30.19

BONANZA RD. (CO. RD. 54)

STA. 295+25
END WRSF
ON ℄ MEDIAN

P.T. 302+27.41

WIRE ROPE SAFETY FENCE
10' RT. OF HWY. 71 L.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 291+87
END WRSF
ON NB FORESLOPE

OLD JENNY LIND LOOP

STA. 296+11
BEGIN WRSF
ON SB FORESLOPE

P.I. 297+79.72

ELMWOOD CUTOFF

STA. 281+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 286+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 291+00 IN PLACE
24" R.C. PIPE CULVERT WITH PLUGGED
& COVERED DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 292+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 293+49 IN PLACE
6' X 4' R.C. BOX CULVERT
(30° RT. FWD. SKEW)
RETAIN

STA. 295+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN

STA. 296+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 302+07 IN PLACE
24" R.C. PIPE CULVERT
(15° RT. FWD. SKEW) WITH
DROP INLET IN MED.
WITH F.E.S. LT. & RT.
RETAIN

STA. 307+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 310+50 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

PI 313+17.75
DELTA = 4°03'12" LT.
D = 2°00'00"
T = 101.38'
L = 202.67'

STA. 311+20
END WRSF
ON SB FORESLOPE
BEGIN EXCEPTION
JOB 040645

GUARDRAIL (TYPE A) IN PLACE		TERMINAL ANCHOR POST (TYPE A) IN PLACE	
STA. 312+16 - STA. 314+28 RT. (R.M.L.)	225 LIN.FT.	1 EACH	RETAIN
STA. 312+39 - STA. 314+51 LT. (R.M.L.)	225 LIN.FT.	1 EACH	RETAIN
STA. 315+64 - STA. 317+76 RT. (L.M.L.)	225 LIN.FT.	1 EACH	RETAIN
STA. 315+95 - STA. 318+07 LT. (L.M.L.)	225 LIN.FT.	1 EACH	RETAIN

310 315 320 325 330 335 340

HUNKTOWN RD.

P.C. 312+16.37

P.T. 314+19.04

CREEK

PRAIRIE

ELMWOOD CUTOFF

P.I. 313+17.75

STA. 315+68
BEGIN WRSF
ON NB FORESLOPE
END EXCEPTION
JOB 040645

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 71 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

PI 338+80.72
DELTA = 3°08'23" RT.
D = 1°00'00"
T = 157.03'
L = 313.97'

P.I. 338+80.72

P.C. 337+23.69

P.T. 340+37.66

STA. 313+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN

STA. 317+75 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 323+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 329+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 335+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

PLAN SHEET STA. 280+00 - STA. 340+00

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SCALE: 200ft

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Crafton, Tull & Associates Inc.

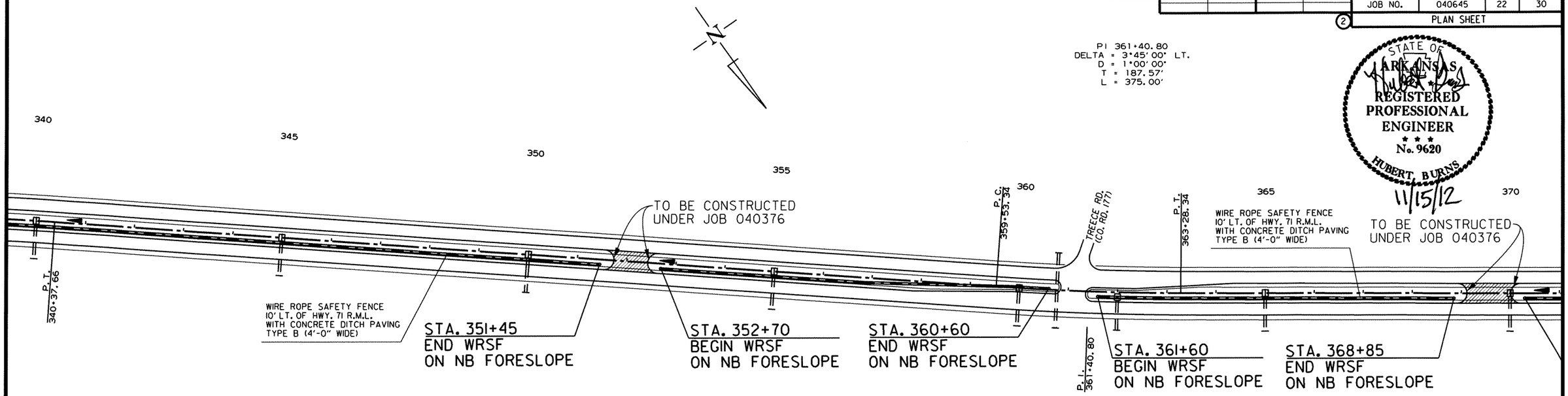
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		040645	22	30

(2) PLAN SHEET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

PI 361+40.80
DELTA = 3°45'00" LT.
D = 1°00'00"
T = 187.57'
L = 375.00'



STA. 340+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 345+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 350+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 355+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

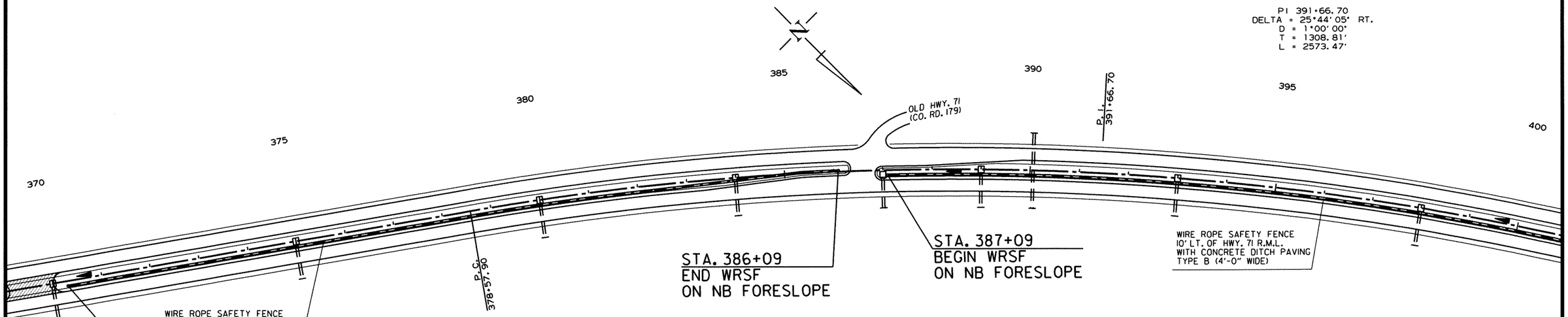
STA. 360+00 IN PLACE
24" R.C. PIPE CULVERT WITH PLUGGED & COVERED DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 360+77 IN PLACE
24" R.C. PIPE CULVERT
WITH F.E.S. LT. & RT.
RETAIN

STA. 362+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 365+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

PI 391+66.70
DELTA = 25°44'05" RT.
D = 1°00'00"
T = 1308.81'
L = 2573.47'



STA. 370+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 375+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 380+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 384+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 387+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 389+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN

STA. 390+06 IN PLACE
48" R.C. PIPE CULVERT
WITH F.E.S. LT. & RT.
RETAIN

STA. 393+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 398+00 IN PLACE
24" R.C. PIPE CULVERT WITH DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

PLAN SHEET STA. 340+00 - STA. 400+00

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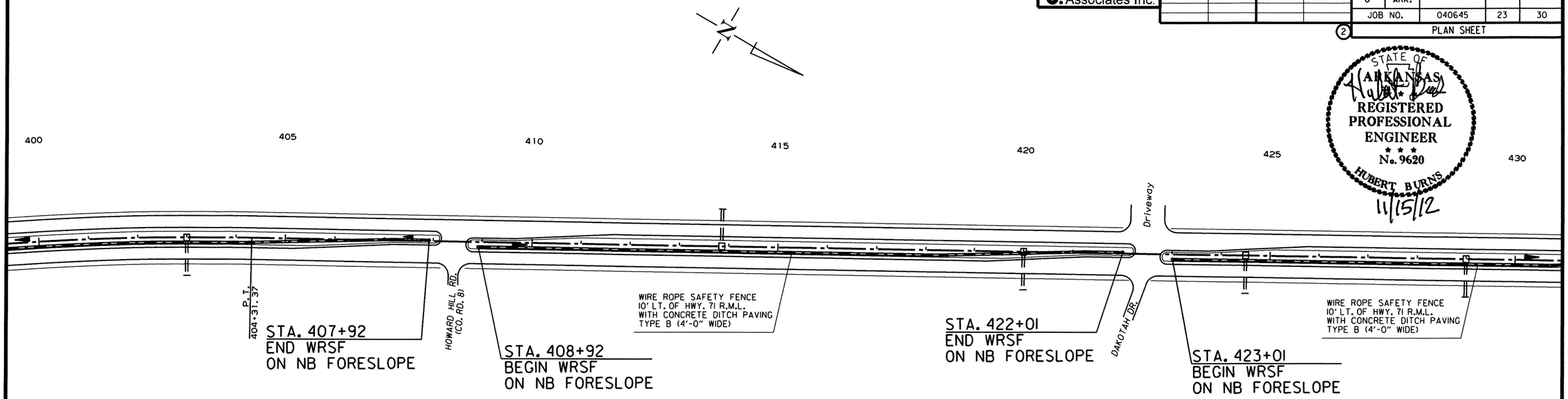
Crafton, Tull & Associates Inc.

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.		040645	23	30

(2) PLAN SHEET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12



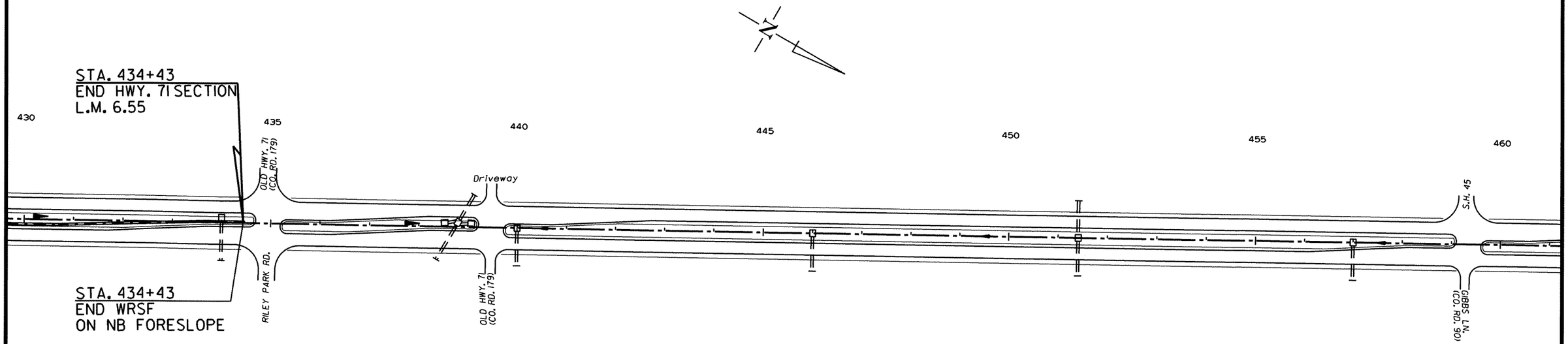
STA. 403+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 413+86 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON LT.
RETAIN

STA. 420+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 424+50 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 429+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN



STA. 434+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE RM DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN AND ADJUST TO GRADE

STA. 438+75 IN PLACE
30" R.C. PIPE CULVERT
(30° LT. FWD. SKEW) WITH
DROP INLET IN MED.
WITH F.E.S. LT. & RT.
RETAIN

STA. 440+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN

STA. 446+00 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. ON RT.
RETAIN

STA. 451+41 IN PLACE
24" R.C. PIPE CULVERT WITH
DROP INLET IN MED.
WITH F.E.S. LT. & RT.
RETAIN

STA. 457+00 IN PLACE
24" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON RT.
RETAIN

PLAN SHEET STA. 400+00 - STA. 460+00

USER: dc5100
DESIGN FILE: G:\12104803_Hwy71FtSm\TRANSP\dgn\040645 Base.dgn
PLOTTED: 11/13/2012 14:26
SCALE: 200ft

Crafton, Tull & Associates Inc.

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.		040645	24	30
				(2) PLAN SHEET				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9620
HUBERT BURNS
11/15/12

SEQUOYAH COUNTY OKLAHOMA
CRAWFORD COUNTY ARKANSAS

N

STA. 0+05
BEGIN HWY. 271 SECTION
L.M. 3.20

STA. 10+20
END HWY. 271 SECTION
L.M. 3.01

P.O.B. 0+00.00

P.C. 10+91.10

STA. 10+26.8 IN PLACE CONCRETE MEDIAN RETAIN

STA. 10+57 IN PLACE CONCRETE MEDIAN BARRIER WITH IMPACT ATTENUATION BARRIER RETAIN

WIRE ROPE SAFETY FENCE
10' LT. OF HWY. 271 R.M.L.
WITH CONCRETE DITCH PAVING
TYPE B (4'-0" WIDE)

STA. 0+05
BEGIN WRSF
ON EB FORESLOPE

STA. 0+20 IN PLACE
18" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON LT.
RETAIN

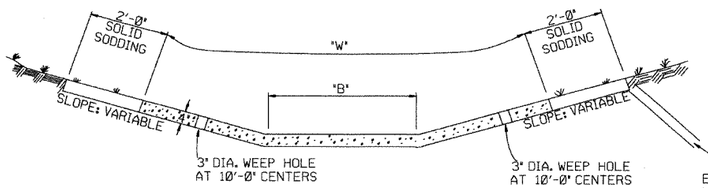
STA. 10+20
END WRSF
ON EB FORESLOPE

STA. 8+00 IN PLACE
18" R.C. PIPE CULVERT WITH
TYPE R DROP INLET IN MED.
4'-0" X 3'-0"
WITH F.E.S. ON LT.
RETAIN

PLAN SHEET STA. 0+00 - STA. 10+00

USER: bc5100
DESIGN FILE: G:\12104803_Hwy71F tSm\TRANSP\dgn\040645 Base.dgn
PLOTTED: 11/13/2012 14:26 SCALE: 200:1

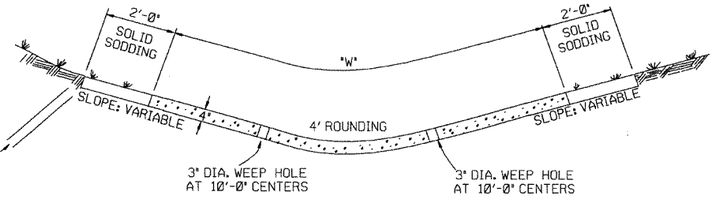
REFER TO TABULATION OF QUANTITIES FOR "W" & "B" DIMENSIONS



TYPE A

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

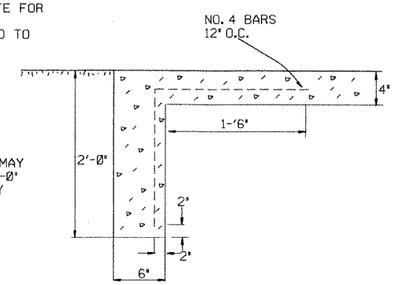
REFER TO TABULATION OF QUANTITIES FOR "W" DIMENSIONS



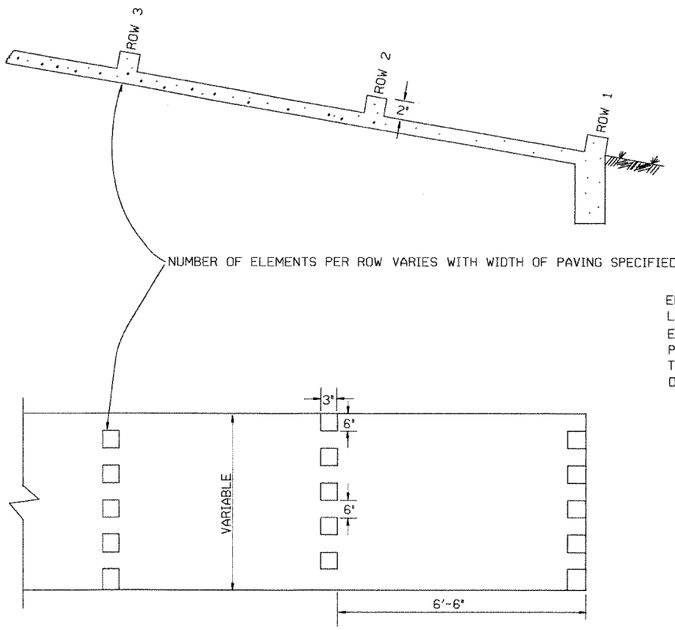
TYPE B

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

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



TOE WALL DETAIL FOR CONCRETE DITCH PAVING



ENERGY DISSIPATORS
(NO SCALE)

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

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

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

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

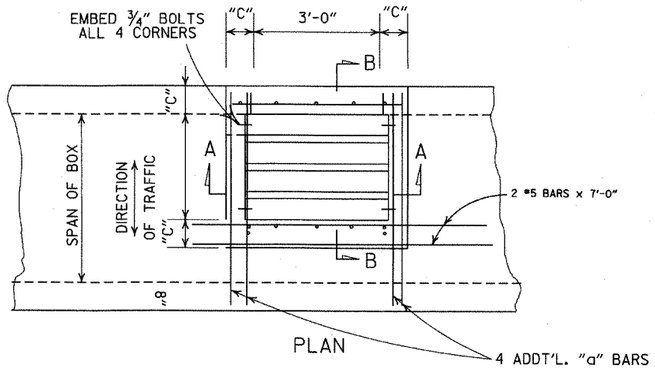
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

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

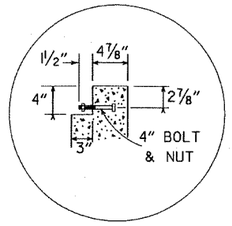
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

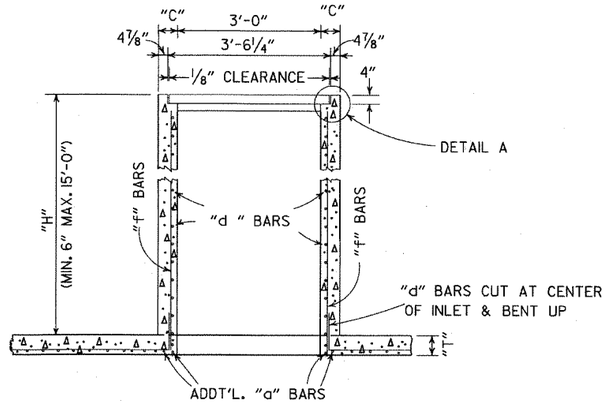
STANDARD DRAWING CDP-1



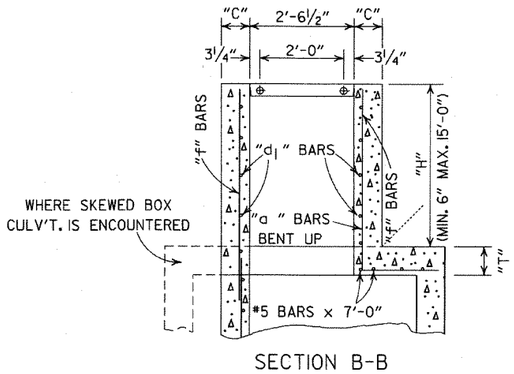
PLAN



DETAIL A



SECTION A-A

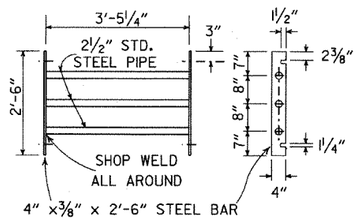


SECTION B-B

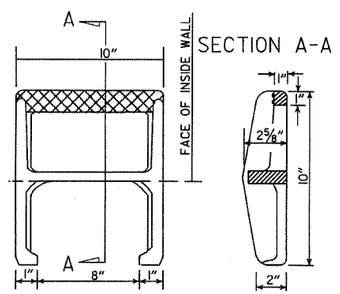
NOTE: ADDT'L.REINF. STEEL TO BE INCLUDED IN UNIT PRICE BID PER TYPE "TM" D.I.

DIMENSIONS & REINF. BARS FOR D.I. TO BE THE SAME AS THOSE SHOWN ON APPLICABLE STD. BARREL DRAWING FOR R.C. BOX CULVERTS.

DROP INLET TYPE "TM" FOR REINFORCED CONC. BOX CULVERTS



GRATE DETAIL



APPROX. WEIGHT = 11 LBS. (CAST IRON)

PLAN

NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET

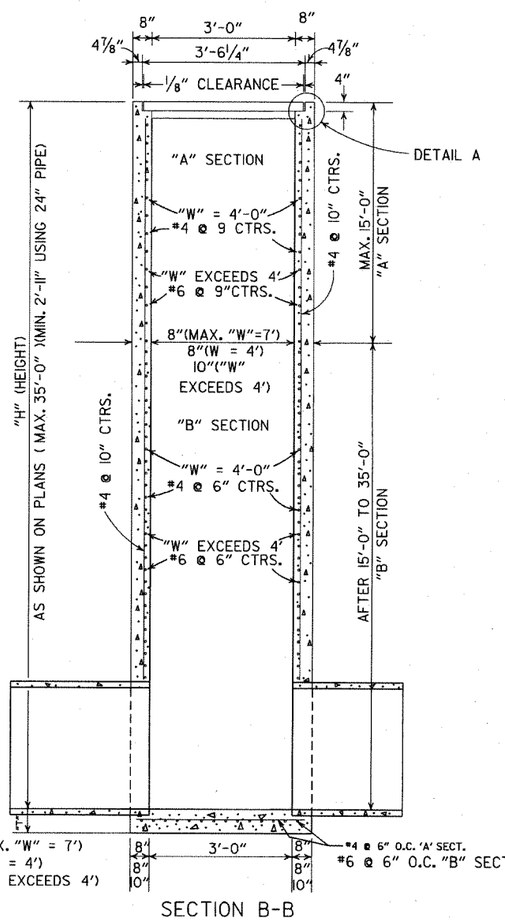
GENERAL NOTES:

1. STEEL PIPE FOR GRATES AND BOLTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 807. BOLTS SHALL CONFORM TO ONE OF THE FOLLOWING: ASTM A193, GRADE B8 CLASS 1 OR 2, ASTM A307 OR AASHTO M 164.
2. STEEL PIPE FOR GRATES SHALL BE "STANDARD WEIGHT" PIPE CONFORMING TO ASTM A53 NATIONAL STANDARD PIPE.
3. BOLTS, NUTS, WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232 OR AASHTO M 298, CLASS 40 OR 50.
4. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER.
5. ALL #4 AND #5 REINFORCING BARS TO HAVE 1½" COVER. LARGER SIZES TO HAVE 2" COVER.
6. THE COMPLETE PIPE GRATE SHALL BE PAINTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

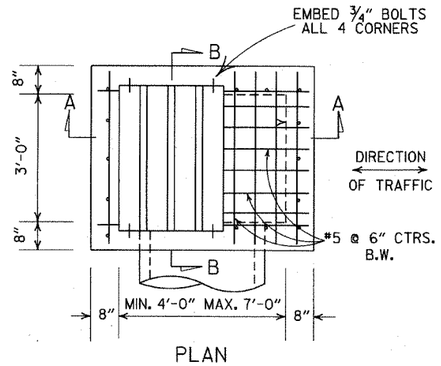
TABLE OF "W" DIMENSIONS

I.D. PIPE	SKEW OF CROSS DRAIN		
	STRAIGHT	30°	45°
	"W"	"W"	"W"
24"	4'-0"	4'-0"	4'-0"
30"	4'-0"	4'-0"	4'-5"
36"	4'-0"	4'-3"	5'-3"
42"	4'-3"	4'-11"	6'-1"
48"	4'-10"	5'-7"	6'-11"

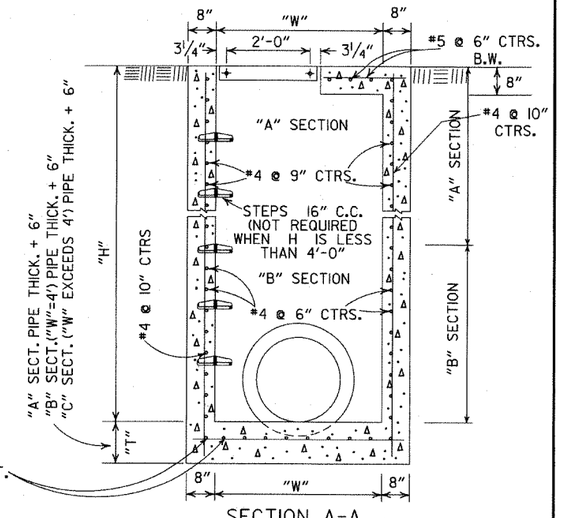
NOTE: DIMENSIONS SHOWN ABOVE ARE FOR PIPES INTERSECTING DROP INLET ON ONE SIDE ONLY. FOR SKEWED PIPES INTERSECTING BOTH SIDES OF DROP INLET, "W" WILL NEED TO BE INCREASED OR AXIS OF INTERSECTING PIPES WILL NEED TO BE SHIFTED.



SECTION B-B



PLAN



SECTION A-A

DROP INLET(TYPE RM)

8-22-02	ADDED & REVISED DIMENSION TO SECTION A-A	
1-12-00	CORRECTED DIMENSION ON SECTION B-B	
11-06-97	ADDED DIMENSION TO SECTION A-A	
10-18-96	REVISED ASTM REF. TO AASHTO AND ADDED NOTE TO TABLE OF "W" DIMENSIONS	
10-1-92	ADDED DIRECTION OF TRAFFIC	10-1-92
8-15-91	ADDED NOTE ABOUT PAINTING OF GRATE	8-15-91
11-30-89	ALTERED DETAIL A	11-30-89
7-15-88	REVISED STEP DETAIL,TM & RM D.I. & GRATE DETAIL	719-7-15-88
10-2-72	REVISED AND REDRAWN	542-10-2-72
REVISED		DATE FILMED

ARKANSAS STATE HIGHWAY COMMISSION

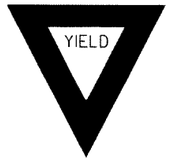
DETAILS OF DROP INLETS

STANDARD DRAWING FPC-9D

R1-1

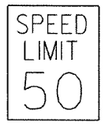
STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2



STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R2-5A

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R2-5C

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

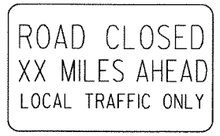
R5-1

STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2

48"X30"

R11-3A

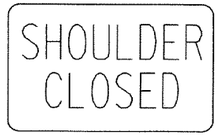


60"X30"

R11-4

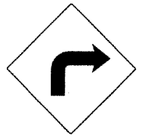
60"X30"

RSP-1



48"X30"

W1-1



STD. 36"X36"
FWY. 48"X48"

W1-2

STD. 36"X36"
FWY. 48"X48"

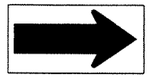
W1-3

STD. 48"X48"

W1-4

STD. 48"X48"

W1-6

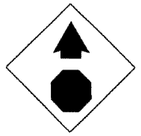


STD. 48"X24"
SPECIAL 60"X30"

W1-8

STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

W3-1

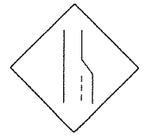


STD. 36"X36"
SPECIAL 48"X48"

W3-2

STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1

STD. 36"X36"
SPECIAL 48"X48"

W6-3

EXPWY. 36"X36"
SPECIAL 48"X48"

W8-7

EXPWY. 36"X36"
FWY. 48"X48"

W9-2

STD. 36"X36"
FWY. 48"X48"

W13-1

STD. 24"X24"

W20-1

STD. 48"X48"

W20-2

STD. 48"X48"

W20-3

STD. 48"X48"

W20-4

STD. 48"X48"

W20-5

STD. 48"X48"

W20-7a

STD. 36"X36"
FWY. 48"X48"

W21-2

STD. 30"X30"
SPECIAL 36"X36"

W21-5

STD. 30"X30"
SPECIAL 36"X36"

W24-1

STD. 36"X36"

W1-4b

STD. 48"X48"

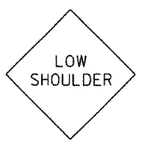
R56-1

STD. 18"X18"

W8-11

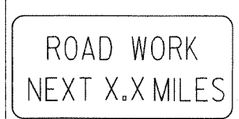
STD. 36"X36"
FWY. 48"X48"

W8-9



STD. 36"X36"
FWY. 48"X48"

G20-1



60"X24"

G20-2

48"X24"

OM-3L OM-3R

12"X36"

M4-9

STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10

48"X18"

R55-1

FINES DOUBLE
IN WORK ZONES *

WHEN WORKERS
ARE PRESENT **

36"X60"

* USE 6" C LETTERS
** USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	½ MILE
1000 FT	¾ MILE
1500 FT	1 MILE
	AHEAD

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
- 4. 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.
- 5. 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.
6. 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.
7. 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.
8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

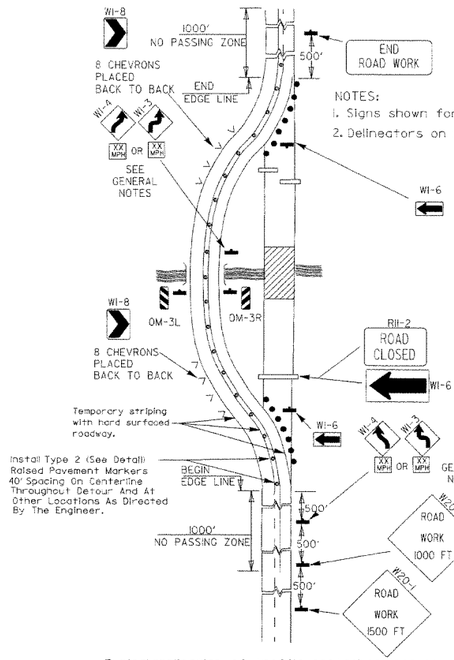
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY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

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

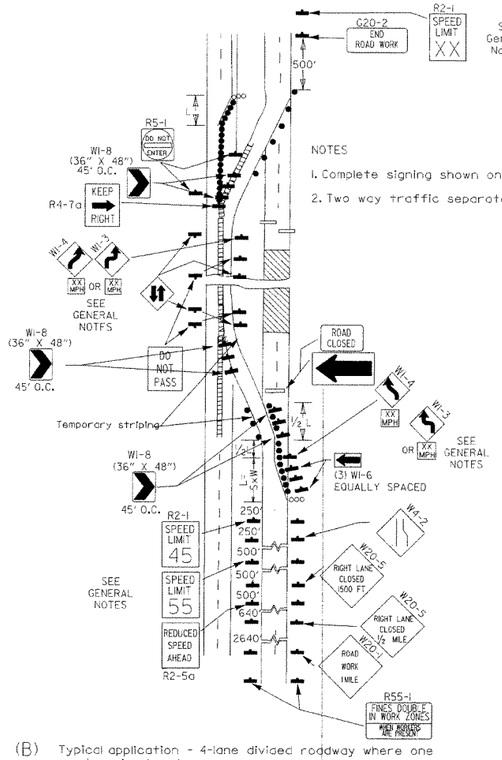
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

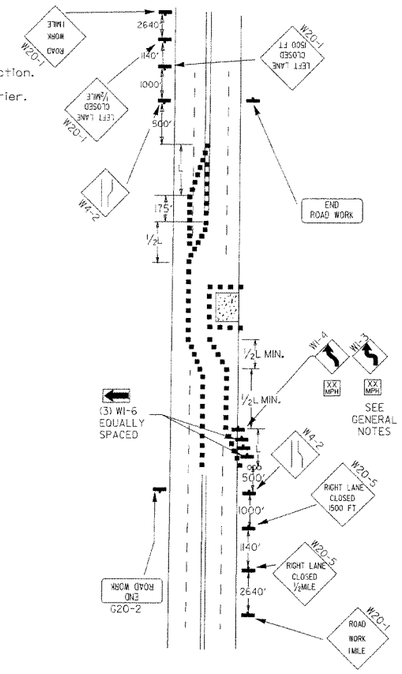
STANDARD DRAWING TC-1



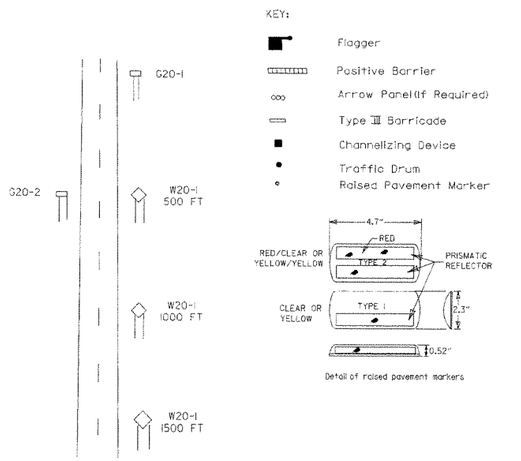
(A) Typical application of traffic control devices on a 2-lane highway where the entire roadway is closed and a bypass detour is provided.



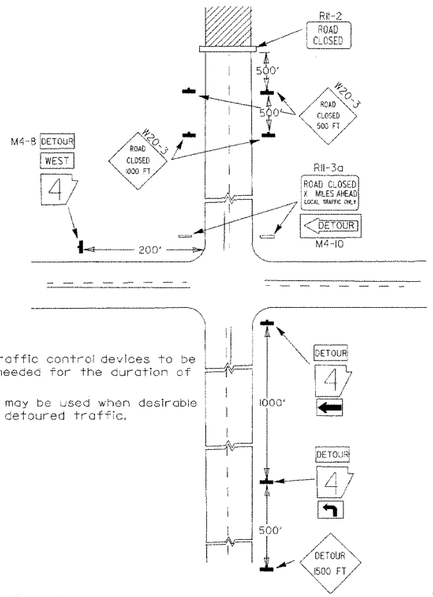
(B) Typical application - 4-lane divided roadway where one roadway is closed.



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

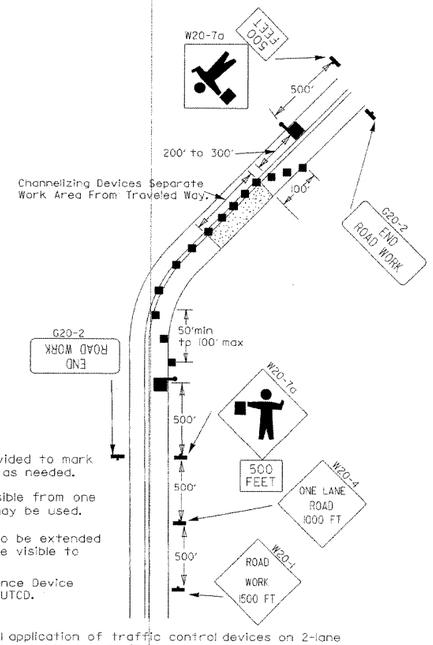


Typical advance warning sign placement



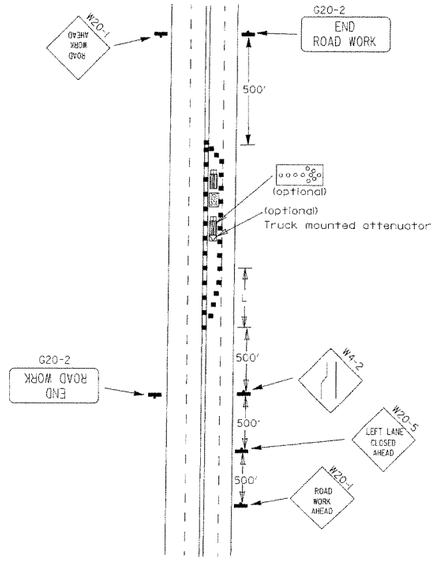
NOTES:
1. Regulatory traffic control devices to be modified as needed for the duration of the detour.
2. Street names may be used when desirable for directing detoured traffic.

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



NOTES:
1. Flood lights should be provided to mark flagger stations at night as needed.
2. If entire work area is visible from one station, a single flagger may be used.
3. Channelizing devices are to be extended to a point where they are visible to approaching traffic.
4. Automated Flagger Assistance Device (AFAD) optional. Refer to MUTCD.

(E) Typical application of traffic control devices on 2-lane highway where one lane is closed and flagging is provided.



(F) Typical application - 4-lane undivided roadway with inside lane closed.

Taper formulae:

L=SxW for speeds of 45mph or more.

$L = \frac{WS^2}{60}$ for speeds of 40mph or less.

Where:
L= Minimum length of taper.
S= Numerical value of posted speed limit prior to work or 85th percentile speed.
W= Width of offset.

GENERAL NOTES:

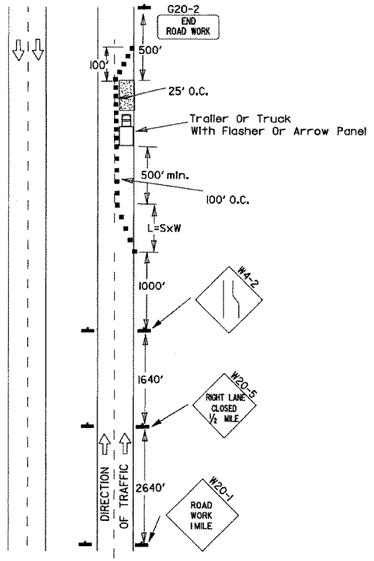
1. Advisory speed posted on W1-3 or W1-4 curve warning signs to be determined at site. Use W1-4 when speed is greater than 30mph and W1-3 when 30mph or less.
2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(55) shall be omitted and the R2-5A shall be installed at that location. Additional R2-1 45mph 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.
3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-1 55mph 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.
4. The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit, or as directed by the Engineer.
5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
7. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.

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

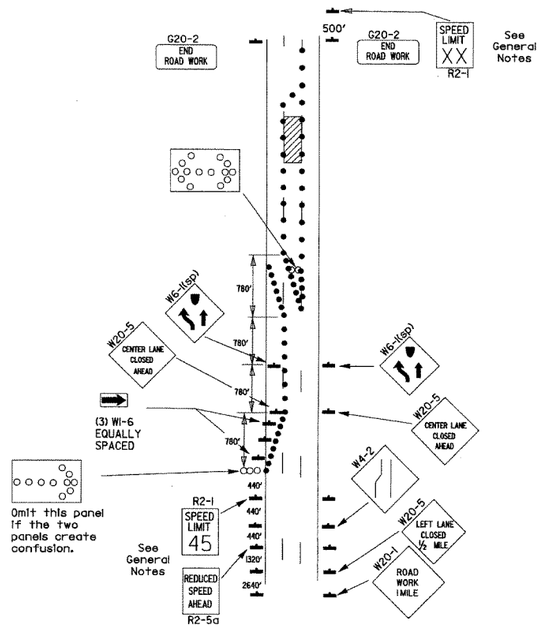
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

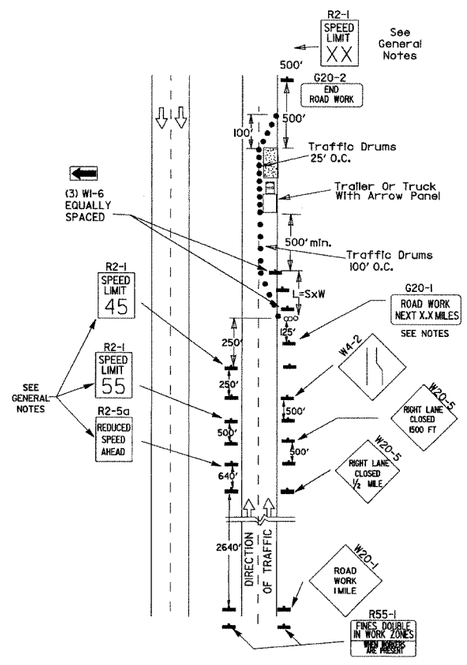
STANDARD DRAWING TC-2



(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.



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

KEY:

ooo Arrow Panel (If Required)

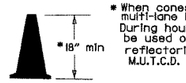
■ Channelizing Device

● Traffic drum

GENERAL NOTES:

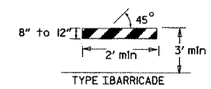
1. A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(55) shall be omitted and the R2-5A shall be installed at that location. Additional R2-1 45mph 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.
3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-1 55mph 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.
4. The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit or as directed by the Engineer.
5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
7. The G20-1 sign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-1 sign shall be erected 125' in advance of the job limit. Additional W20-1 (1 MILE) signs are not required in advance of lane closures that begin inside the project limits.
8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
9. All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual For Assessing Safety Hardware (MASH).
10. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.

Channelizing devices



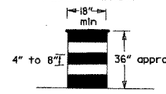
* When cones are used on freeways and multi-lane highways, they shall be 28" min. During hours of darkness, 28" cones shall be used on all roadways, and shall be reflectorized in accordance with the M.U.T.C.D.

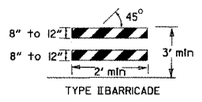
CONES



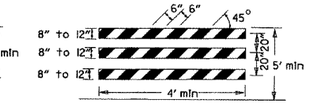
TYPE I BARRICADE

PLASTIC DRUM



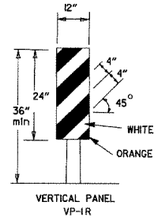


TYPE II BARRICADE



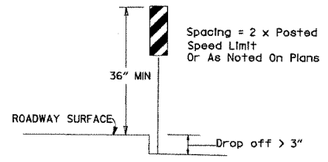
TYPE III BARRICADE

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



VERTICAL PANEL
VP-1R

VERTICAL PANEL PLACEMENT



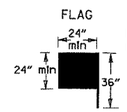
TRAFFIC CONTROL DEVICES
FOR
VERTICAL PAVEMENT DIFFERENTIALS

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

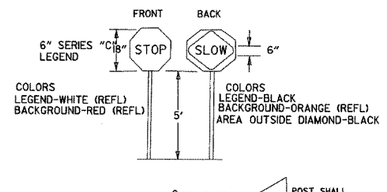
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.

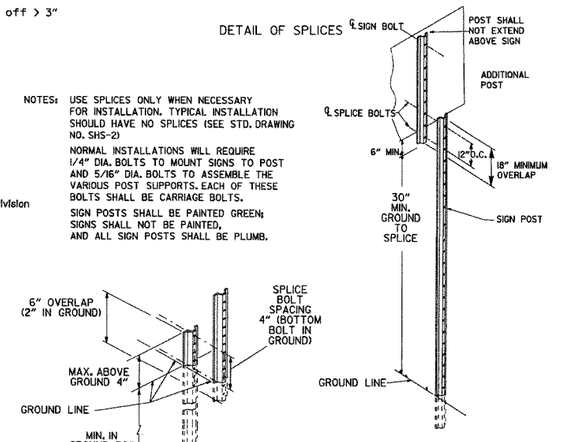
FLAG

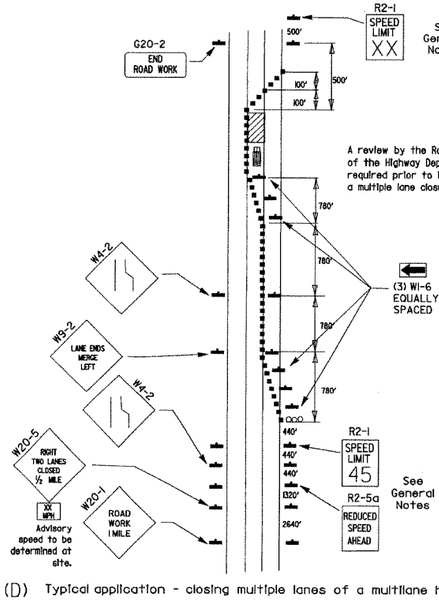


Flag shall be of good grade red material

STOP SLOW PADDLE







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

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

NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS.

SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.

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

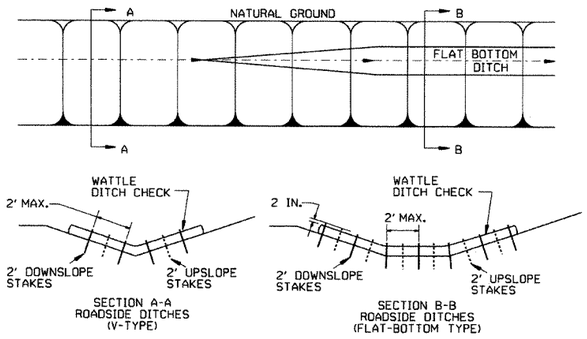
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

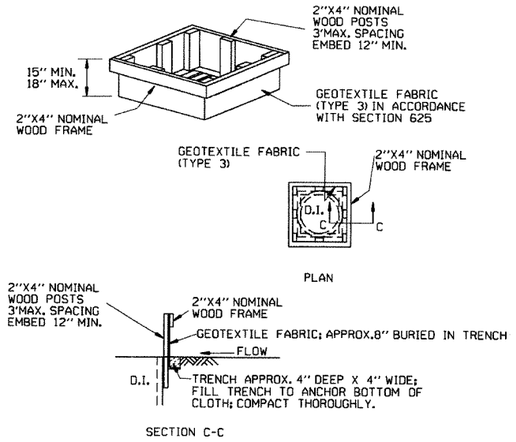
STANDARD DRAWING TC-3

GENERAL NOTES

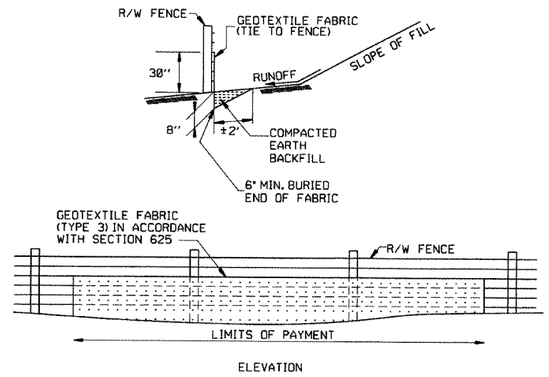
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



DROP INLET SILT FENCE (E-7)



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

GENERAL NOTES

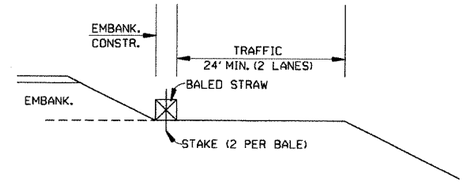
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

GENERAL NOTES

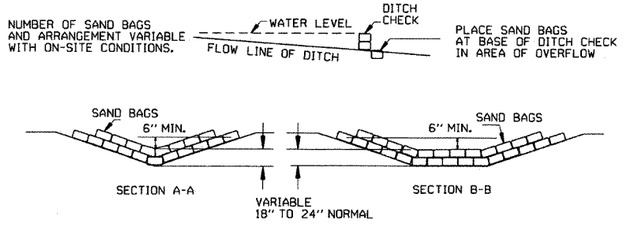
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

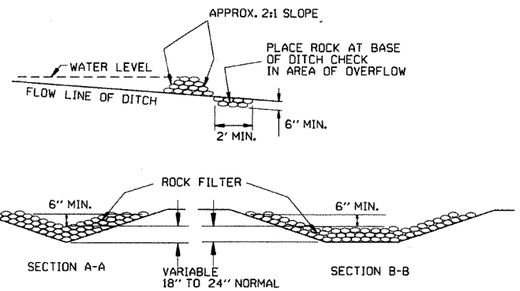
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



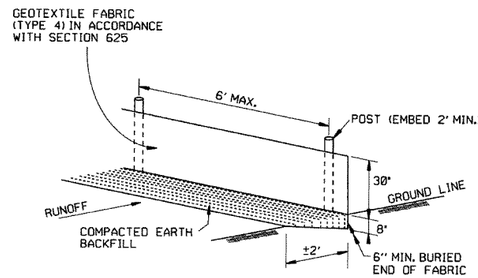
BALED STRAW FILTER BARRIER (E-2)



SAND BAG DITCH CHECK (E-5)



ROCK DITCH CHECK (E-6)



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.

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

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-1