EXAMPLE 1

EXAMPLE 1 - Page 1 of 11

FOR DETAIL OF INTERSECTION & MEDIAN OPENING SEE SHEET 57

NOTE: GRADE LEFT DITCH TO DRAIN FROM MEDIAN DRAIN OUTFALL PIPE AT STA 16+925 TO TIE-IN AT STA 4+974 ON WALNUT HILL ROAD. (NO DIRECT PAY)

STA. 16+960.321 PROJECTED & ADOPTED = STA. 4+931.927 WALNUT HILL ROAD P&A

STA. 16+848.676 LA 28 (EAST BOUND) S&A = STA. 5+000.000 WALNUT HILL ROAD S&A

STA. 16+943 REQ'D. 4 m TYPE "C" DRIVE

STA. 16+957.721 LA 28 S&A = STA. 4+945.527 WALNUT HILL ROAD P&A

4.6m(15')

FOR EMBANKMENT WIDENING DETAILS SEE SHEET 2a

SCALES: 1:600 H 1:60 V

FOR INFORMATIONAL PURPOSES ONLY

VPI STA 16+835.000 ELEV 94.038

-0.069%

MEDIAN DITCH -0.950%

LEFT DITCH -1.548%

RIGHT DITCH -1.412%

MEDIAN DITCH -1.778%

LEFT DITCH -1.111%

CURVE LEN=360.000

FINISH GRADE ELEV 93.382

F.L. MEDIAN=90.100 F.L. LEFT =90.000

STA. 16+600 TO STA. 17+200
GENERAL EXCAVATION 35 943 m³
EMBANKMENT 4 269 m³

VPI STA 17+015.000 ELEV 89.719

VPC STA 17+095.000 ELEV 87.800

-2.399%

MEDIAN DITCH -2.478%

LEFT DITCH -2.424%

CURVE LEN=150.000

FINISH GRADE ELEV 86.162

0.000%

MEDIAN DITCH +0.357%

VPI STA 17+170.000 ELEV 86.000

F.L. MEDIAN=84.500 F.L. LEFT =84.426

16+800 16+900 17+000 17+100 17+200

SHEET NUMBER	20
PARISH	VERNON
FEDERAL PROJECT	NH-06-01(015)
STATE PROJECT	417-01-0014
DESIGNED JDH	
CHECKED TP	
DETAILED JH	
CHECKED JDH	
DATE DECEMBER 2001	
SHEET 20	

REVISION DESCRIPTION | NO. | DATE | BY

ROUTE LA 28
JUNCTION LA 8 - JUNCTION LA 121

PLAN AND PROFILE

NOTE: FOR GENERAL BRIDGE PLANS SEE SHEETS 112 AND 113.
FOR EMBANKMENT WIDENING DETAILS SEE SHEETS 2a AND 2b.

P & A CURVE DATA
PI STA. 17+399.191
Δ= 14°56'42.7" LT.
T = 167.726m
L = 333.547m
R = 1276.727m

S & A CURVE DATA
PI STA. 17+393.568
Δ= 14°55'10.5" LT.
T = 63.152m
L = 165.364m
R = 635.047m

REQ'D. DRAINAGE EXCAVATION
REQ'D CONSTRUCTION SERVITUDE
EXIST. R/W
+075 TIE TO EXIST R/W
LIMITS OF CONSTRUCTION
PROJECTED & ADOPTED ℄
SURVEYED & ABANDONED ℄
℄ E.B.L.
℄ W.B.L.
N68°16'57.2"E
N68°18'29.4"E
N83°13'39.9"E
4.6m(15')
FOR DETAIL OF MEDIAN OPENING SEE SHEET 53
SILT FENCING ALONG LIMITS OF CONSTRUCTION
EXISTING BRIDGE STRUCTURE NO. 4170105511 TO BE REMOVED 7-5.791 m SPANS
SCALE 1:600

TOP WIDTH VARIES
* BOTTOM WIDTH VARIES 14 m WIDTH AT BRIDGE TRANSITION BOTTOM TO MATCH EXISTING CHANNEL
TYPICAL CHANNEL SECTION

SCALES:
1:600 H
1:60 V

REQ'D. 3-TYPE II GIRDER SPANS @ 14 m = 42 m
D.A. = 9.860 sq. km
Q 50 = 57.62 cu. m/sec.
DWSE = 83.828 m/M.S.L.
REFERENCE TIE @ STA. 17+376.358 S&A
T.B.M. # 15850
60D NAIL IN ELM TREE
STA. 17+532.439 / 18.67m LT.
ELEV. = 82.959

FOR INFORMATIONAL PURPOSES ONLY

FINISH GRADE ELEV 86.162
12 m APPROACH SLAB
VPI STA. 17+245.000 ELEV 86.000
NOTE: FOR BRIDGE STATIONS AND ELEVATIONS REFER TO BRIDGE PLANS (SHEETS 112-116)
0.000%
MEDIAN DITCH +0.357%
7-5.791 m SPANS
MEDIAN DITCH -0.233%
LEFT DITCH -0.352%
STA. 17+200 TO STA. 17+800
GENERAL EXCAVATION 1 616 m³
EMBANKMENT 43 443 m³
STA. 17+200 P.I. DIS. LEFT ELEV.=83.578
STA. 17+235 END MEDIAN DITCH ELEV.=85.450
STA. 17+250 END LEFT DITCH ELEV.=83.400
STA. 17+300 BEGIN MEDIAN DITCH ELEV 85.400
STA. 17+600 END MEDIAN DITCH ELEV.=84.700
EXISTING GROUND @ WBL
17+200 17+300 17+400 17+500 17+600

SHEET NUMBER	21
PARISH	VERNON
FEDERAL PROJECT	NH-06-01(015)
STATE PROJECT	417-01-0014
DESIGNED TD / CHECKED JDH	
DETAILED JW / CHECKED JDH	
DATE DECEMBER 2001	
SHEET 21	

REVISION DESCRIPTION | DATE | BY | NO.

ROUTE LA 28
JUNCTION LA 8 - JUNCTION LA 121
PLAN AND PROFILE

EXAMPLE I - Page 3 of 11

ALIGN OUTFALL CHANNEL FROM R.C. ARCH BOX TO MATCH EXISTING CHANNEL

STA. 17+620 (RT. & LT.)
REQ'D. RIP RAP CHANNEL (15 kg)
(SEE STD. PLAN PD-01M)

FOR DETAIL OF ARCH BOX CONNECTION SEE SPECIAL DETAIL CIP-TIEIN02 SHEET 89

STUB-IN SIDE DRAIN PIPES TO R.C.B.

FOR R.C.B. DETAILS SEE STANDARD PLAN C.C.S.M.-10-R-90°-1

LIMITS OF CONSTRUCTION

N 68°16'57.2" E ℄ W.B.L.

PROJECTED & ADOPTED ℄

N 68°18'29.4" E

SURVEYED & ABANDONED ℄

FOR DETAIL OF MEDIAN OPENING SEE SHEET 53

STA. 17+620
REMOVE HEADWALL EACH END OF ARCH BOX CULVERT
SEE SPECIAL DETAIL CIP-TIEIN02 SHEET 94

ALIGN INFLOW CHANNEL TO MATCH R.C.B.

EXIST. R/W

MATCH EXIST. R/W P.I. TIE TO EXIST. R/W

REQ'D R/W

SCALE 1:600

SCALES:
1:600 H
1:60 V

T.B.M. # 15859
600 NAIL IN PINE TREE
STA. 17+968.475 S&A / 32.27m RT
ELEV. = 95.526

FINISH GRADE ELEV. 86.000

STA. 17+600
REQ'D. CB-01 @ MEDIAN
TOP=84.700
INV=83.000
REQ'D. SIDE DRAIN PIPE
450 mm X 18 m

STA. 17+620
REQ'D. 2 - 3.000 mm X 2.400 mm X 5.8 m R.C. BOX (RT.)
REQ'D. 2 - 3.000 mm X 2.400 mm X 5.700 m R.C. BOX (LT.)
(BOX EXTENSIONS TO MATCH SLOPE OF EXISTING R.C. ARCH BOX)

STA. 17+640
REQ'D. CB-01 @ MEDIAN
TOP=84.700
INV=83.000
REQ'D. SIDE DRAIN PIPE
450 mm X 18 m

FOR INFORMATIONAL PURPOSES ONLY

VPC STA 17+755.000
ELEV 86.000

VPT STA 17+895.000
ELEV 87.504

VPC STA 17+895.000
ELEV 87.504

FINISH GRADE ELEV 89.394

Q50 = 8.73 cu.meters/s
VEL. = 0.789 m/s
D.A. = 25.71 ha
HWE = 83.777
ΔH. = 0.091 m

STA. 17+200 TO STA. 17+800
GENERAL EXCAVATION 1 616 m³
EMBANKMENT 43 443 m³

CURVE LEN=140.000

STA. 17+800 TO STA. 18+400
GENERAL EXCAVATION 99 851 m³
EMBANKMENT 1 874 m³

0.000%

+2.148%

MEDIAN DITCH +1.875%

RIGHT & LEFT DITCH +2.400%

MEDIAN DITCH +0.550%

RIGHT DITCH +1.000%

LEFT DITCH +2.000%

LEFT DITCH +1.500%

EXIST. GRD. W.B.L.

VPI STA 17+825.000
ELEV 86.000

F.L.=83.000

F.L.=82.800

F.L. RIGHT=82.061
F.L. LEFT=81.890

STA. 17+600 BEGIN MEDIAN DITCH ELEV.=84.700

STA. 17+640 BEGIN MEDIAN DITCH ELEV.=84.700

STA. 17+700 BEGIN LEFT DITCH ELEV.=82.500 BEGIN RIGHT DITCH ELEV.=84.000

STA. 17+800 P.I. D.G. LEFT ELEV.=84.000

STA. 17+840 P.I. D.G. MEDIAN ELEV.=85.600

STA. 17+900 P.I. D.G. RIGHT & LEFT ELEV.=86.000

STA. 18+000 P.I. D.G. MEDIAN ELEV.=88.800 P.I. D.G. RT. & LT. ELEV.=88.400

EXISTING GROUND @ W.B.L.

17+600 17+700 17+800 17+900 18+000

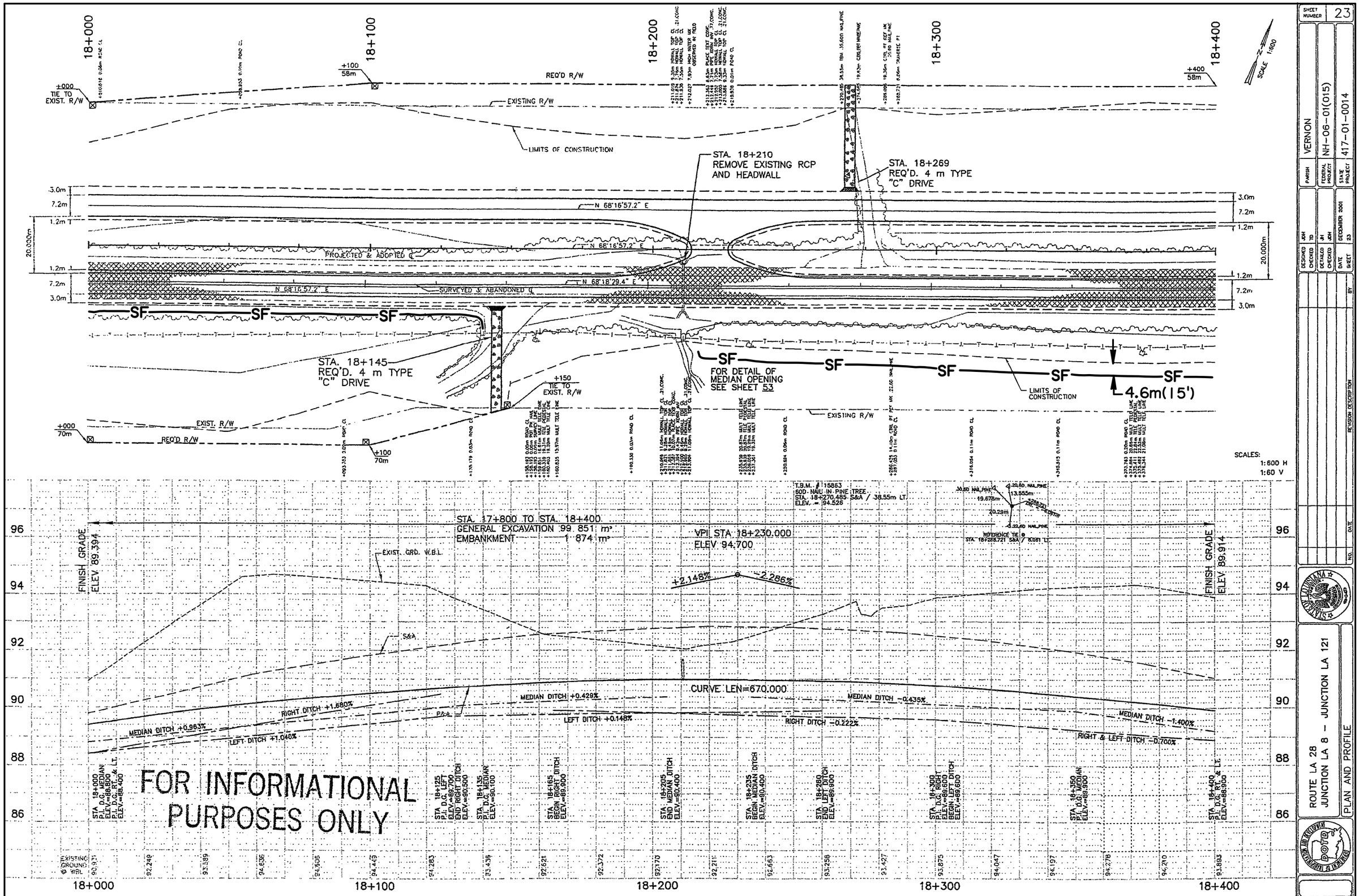
SHEET NUMBER	22
PARISH	VERNON
FEDERAL PROJECT	NH-06-01(015)
STATE PROJECT	417-01-0014
DESIGNED	JDH
CHECKED	TD
DETAILED	JAI
CHECKED	JDM
DATE	DECEMBER 2001
SHEET	22

NO. DATE BY REVISION DESCRIPTION

ROUTE LA 28
JUNCTION LA 8 - JUNCTION LA 121

PLAN AND PROFILE

EXAMPLE I - Page 4 of 11



SHEET NUMBER	23
PARISH	VERNON
FEDERAL PROJECT	NH-06-01(015)
STATE PROJECT	417-01-0014
DESIGNED / CHECKED	JDH / TD
DETAILED / CHECKED	JH / JDH
DATE / SHEET	DECEMBER 2001 / 23

REVISION DESCRIPTION | BY | NO. | DATE

ROUTE LA 28
JUNCTION LA 8 - JUNCTION LA 121

PLAN AND PROFILE

EXAMPLE 1 - Page 5 of 11

PERMANENT EROSION CONTROL

Erosion Control Systems						Vegetative Mulch	Slope Protection		Flexible Channel Liner			
						Item No. 716-01-A	Item No. 720-01-A	Item No. 720-01-B	Item No. 720-01-C	Item No. 720-01-D	Item No. 720-01-E	Item No. 720-01-F
Station	Station	Ditch Location	Length (meters)	Width (meters)	slope %	0.00% to 0.50%	0.51% to 1.50% Type A	1.51% to 2.50% Type B	2.51% to 3.00% Type C	3.01% to 6.00% Type D	6.01% to 8.00% Type E	8.01% to 10.00% Type F
						sq. meters	sq. meters	sq. meters	sq. meters	sq. meters	sq. meters	sq. meters
10+750	10+772.234	left	22.23	6.00	3.099%			598		133		
10+772.234	10+950.00	left	177.77	6.00	0.484%	1067						
10+975	11+197	left	217.01	6.00	0.530%		1302					
11+197	11+420	left	223.00	6.00	1.345%		1338					
11+445	11+700	left	255.00	6.00	1.255%		1530					
11+950	12+246	left	296.00	6.00	0.743%		1776					
12+246	12+320	left	74.00	6.00	0.370%	444						
12+340	12+560	left	220.00	6.00	2.636%				1320			
12+560	12+570	left	10.00	6.00	1.000%		60					
12+593	12+850	left	257.00	6.00	2.179%			1542				
12+900	13+050	left	150.00	6.00	1.167%		900					
13+050	13+200	left	150.00	6.00	2.167%			900				
13+325	13+360	left	35.00	6.00	2.857%				210			
13+360	13+493	left	133.00	6.00	3.459%					798		
13+493	13+650	left	157.00	6.00	0.764%		942					
13+650	13+800	left	150.00	6.00	0.533%		900					
14+100	14+250	left	150.00	6.00	2.333%			900				
14+250	14+400	left	150.00	6.00	0.933%		900					
14+400	14+475	left	75.00	6.00	2.000%			450				
14+545	14+650	left	105.00	6.00	1.429%		630					
14+650	14+800	left	150.00	6.00	1.333%		900					
14+800	15+000	left	200.00	6.00	3.250%					1200		
15+250	15+350	left	100.00	6.00	4.000%					600		
15+350	15+600	left	250.00	6.00	1.680%			1500				
15+600	15+700	left	100.00	6.00	1.500%		600					
15+700	16+000	left	300.00	6.00	0.267%	1800						
16+000	16+109	left	109.00	6.00	1.927%			654				
16+109	16+140	left	31.00	6.00	1.936%			186				
16+140	16+200	left	60.00	6.00	1.333%		360					
16+200	16+470.5	left	270.50	6.00	2.847%				1623			
16+470.5	16+530	left	59.50	6.00	0.504%							
16+530	16+595	left	65.00	6.00	0.923%		390					
16+595	16+725	left	130.00	6.00	1.769%			780				
16+725	16+880	left	155.00	6.00	1.548%			930				
16+880	16+925	left	45.00	6.00	1.111%		270					
16+975	17+200	left	225.00	6.00	2.424%			1350				
17+200	17+250	left	50.00	6.00	0.352%	300						
17+700	17+800	left	100.00	6.00	1.500%		600					
17+800	17+900	left	100.00	6.00	2.000%			600				
17+900	18+000	left	100.00	6.00	2.400%			600				
18+000	18+125	left	125.00	6.00	1.040%		750					
18+125	18+260	left	135.00	6.00	0.148%	810						
18+300	18+400	left	100.00	6.00	0.700%		600					
18+400	18+600	left	200.00	6.00	2.150%			1200				
18+600	18+650	left	50.00	6.00	3.200%					300		
18+650	18+775	left	125.00	6.00	1.600%			750				
18+775	18+850	left	75.00	6.00	0.667%		450					
18+900	19+100	left	200.00	6.00	0.200%	1200						
19+100	19+300	left	200.00	6.00	0.800%		1200					
19+300	19+475	left	175.00	6.00	1.543%			1050				
19+950	20+000	left	50.00	6.00	4.800%					300		
20+000	20+100	left	100.00	6.00	1.000%		600					
20+100	20+200	left	100.00	6.00	0.800%		600					
20+200	20+300	left	100.00	6.00	1.300%		600					
20+300	20+400	left	100.00	6.00	2.300%			600				
20+400	20+496	left	96.00	6.00	4.271%					576		
20+496	20+550	left	54.00	6.00	0.370%	324						
20+640	20+660	left	20.00	6.00	0.200%	120						
20+700	20+800	left	100.00	6.00	2.300%			600				
20+800	20+920	left	120.00	6.00	1.667%			720				
20+920	21+025	left	105.00	6.00	4.667%					630		
21+170	21+250	left	80.00	6.00	0.813%		480					
21+250	21+400	left	150.00	6.00	1.433%		900					
21+400	21+600	left	200.00	6.00	2.480%			1200				
21+600	21+650	left	50.00	6.00	2.480%			300				
21+650	21+700	left	50.00	6.00	4.000%					300		
21+700	21+740	left	40.00	6.00	6.250%						240	
21+800	21+900	left	100.00	6.00	3.900%					600		
21+900	22+050	left	150.00	6.00	0.533%		900					
22+050	22+150	left	100.00	6.00	2.700%				600			
			Totals for Left Ditch			6065	20478	16812	3753	5437	240	
			Totals for Median Ditch (sheet 3d)			21882	35266	26424	3284	1188	840	
			Totals for Right Ditch (sheet 3d)			2250	16748	20821	2757	1848	0	
			Project Totals			30197	72492	64057	9794	8453	1080	

SHEET NUMBER 3e

PARISH: VERNON

FEDERAL PROJECT: NH-06-01(015)

STATE PROJECT: 417-01-0014

DESIGNED: JDH
CHECKED: TD
DETAILED: JH
CHECKED: JDM
DATE: DECEMBER 2001
SHEET: 37

NO.	DATE	REVISION DESCRIPTION

STATE OF LOUISIANA

ROUTE LA 28
JUNCTION LA 8 — JUNCTION LA 121

SUMMARY SHEET

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

EXAMPLE 1 - Page 6 of 11

TEMPORARY EROSION & SEDIMENT CONTROL STRUCTURE LOCATIONS ▲

STATION	TEMPORARY INLET SILT TRAP	TEMP. SEDIMENT CHECK DAMS					
		LT. DITCH		MEDIAN DITCH		RT. DITCH	
	MEDIAN DITCH	HAY	STONE	HAY	STONE	HAY	STONE
10+770		1		1			
10+790						1	
10+830		1		1			
10+890		1		1			
11+010				1			
11+030		1					
11+070				1			
11+090		1					
11+130				1			
11+150		1					
11+180			1				
11+197	1						
11+210			1				
11+220				1			
11+240		1					
11+280				1			
11+300		1				1	
11+340				1			
11+360		1					
11+410						1	
11+446	1						
11+455							
11+480			1	1			
11+520		1					
11+540				1			
11+580		1					
11+600				1			
11+640		1					
11+660				1			
11+720				1			
11+780				1			
11+840				1			
12+000				1			
12+010		1				1	
12+060				1			
12+070		1				1	
12+120				1			
12+130		1				1	
12+180				1			
12+190						1	
12+235		1	1				1
12+246	1						
12+255			1				
12+280		1					
12+320				1			
12+380				1			
12+400		1					
12+440				1			
12+460		1					
12+500				1			
12+520		1					
12+550			1				
12+560	1						
12+650		1		1			
12+710		1		1			
12+770		1		1			
12+830		1		1			
12+853	1						
12+840			1				
12+845							1
12+880						1	
12+930		1					
12+940		1		1			
12+990		1					
13+010	1						
13+060						1	
13+100				1			
13+110		1					
13+120						1	
13+150	1						
13+170		1					
13+180						1	
13+200			1	1			1
13+225					1		
13+285					1		
13+310				1			
13+330			1				
13+350		1					
13+360	1						
13+380							1
13+410		1		1		1	
13+470		1				1	
13+493	1						
13+510				1			
13+530		1				1	
13+570				1			
13+590		1				1	
13+630				1			
13+710		1				1	
13+750				1			
13+770		1				1	
13+795			1				1
13+810				1			
13+870				1			
13+937	1						
13+977	1						
14+040				1			
14+100				1			
14+105			1				1
14+160		1		1		1	
14+220		1		1		1	
14+280		1		1		1	
14+340		1		1		1	
14+460		1		1		1	
14+470			1				
14+520				1		1	
14+535							
14+545	1						1

TEMPORARY EROSION & SEDIMENT CONTROL STRUCTURE LOCATIONS ▲

STATION	TEMPORARY INLET SILT TRAP	TEMP. SEDIMENT CHECK DAMS					
		LT. DITCH		MEDIAN DITCH		RT. DITCH	
	MEDIAN DITCH	HAY	STONE	HAY	STONE	HAY	STONE
14+660				1		1	
14+710		1					
14+720				1		1	
14+770		1					
14+780				1		1	
14+800		1		1		1	
14+900		1		1		1	
14+960		1		1		1	
14+995			1				1
15+020				1			
15+030	1						
15+130	1						
15+180				1			
15+240				1			
15+255			1				1
15+280		1				1	
15+300				1			
15+340		1				1	
15+360				1			
15+400		1				1	
15+420				1			
15+460		1				1	
15+485	1						
15+520		1				1	
15+540				1			
15+580		1				1	
15+600				1			
15+640		1				1	
15+660				1			
15+760		1		1		1	
15+820		1		1		1	
15+835	1						
15+880		1				1	
15+930				1			
15+940		1				1	
15+990				1			
16+000		1				1	
16+050				1			
16+060		1				1	
16+109	1						
16+160						1	
16+170				1			
16+200		1					
16+230				1			
16+250		1				1	
16+290				1			
16+320		1				1	
16+350				1			
16+380		1				1	
16+410				1			
16+440		1				1	
16+460			1				1
16+471	1						
16+480			1				
16+570				1			
16+630				1			
16+660		1					
16+670						1	
16+690				1			
16+750				1			
16+780		1				1	
16+810				1			
16+840		1				1	
16+870				1			
16+880	1						
16+900						1	
17+000		1		1			
17+060		1		1			
17+110		1		1			
17+165	1						
17+180		1					
17+225			1				
17+360				1			
17+420				1			
17+480				1			
17+540				1			
17+600	1						
17+640	1						
17+705			1				1
17+720				1			
17+760		1				1	
17+780				1			
17+820		1				1	
17+840				1			
17+880		1				1	
17+900				1			
17+940		1				1	
17+960				1			
18+000		1				1	
18+020				1			
18+060		1				1	
18+080				1			
18+120		1					
18+140				1			
18+180		1					
18+220						1	
18+280						1	
18+340		1				1	
18+360				1			
18+400		1				1	
18+420				1			
18+450		1				1	
18+480				1			
18+520		1				1	
18+540				1			
18+580		1				1	
18+600				1			
18+640		1				1	
18+650	1						

TEMPORARY EROSION & SEDIMENT CONTROL STRUCTURE LOCATIONS ▲

STATION	TEMPORARY INLET SILT TRAP	TEMP. SEDIMENT CHECK DAMS					
		LT. DITCH		MEDIAN DITCH		RT. DITCH	
	MEDIAN DITCH	HAY	STONE	HAY	STONE	HAY	STONE
18+700		1				1	
18+740				1			
18+760		1				1	
18+800	1						
18+820		1				1	
18+845			1				1
18+920		1					
18+980		1		1			
19+040		1		1		1	
19+100	1					1	
19+160						1	
19+200				1			
19+220						1	
19+260				1			
19+320				1			
19+360		1				1	
19+380				1			
19+420		1				1	
19+440				1			
19+455	1						
19+465			1				1
19+490							1
19+496	1						
19+540				1			
19+560						1	
19+600				1			
19+620						1	
19+660				1			
19+680						1	
19+720				1			
19+740						1	
19+780				1			
19+840				1			
19+850						1	
19+900				1			
19+955							
19+960				1			
19+980		1				1	
20+020				1			
20+040		1				1	
20+160		1				1	
20+180				1			
20+220		1				1	
20+240				1			
20+270							1
20+280		1					
20+283	1						
20+340		1					
20+350				1			
20+400		1					
20+410				1			
20+460		1					
20+470				1			
20+496	1						
20+520		1					
20+545			1				
20+560				1			
20+590						1	
20+620				1			
20+680				1			
20+705			1				1
20+740		1		1		1	
20+800		1		1		1	
20+860		1		1		1	
20+980				1		1	
21+005							1
21+015	1						
21+050				1			
21+110				1			
21+230		1		1		1	
21+290		1		1		1	
21+350	1	1				1	
21+410		1				1	
21+430				1			
21+460							1
21+470	1	1					
21+530		1					
21+580				1			
21+590		1					
21+640				1			
21+650		1					
21+655			1				
21+700				1			
21+710		1					
21+738	1						
21+800			1	1			1
21+860				1			
21+870		1				1	
21+920				1			
21+930		1				1	
21+990		1				1	
22+100		1					
21+145			1				
22+110				1		1	
22+170						1	
22+195							1
TOTALS	33*	118**	25***	139**	2***	97**	20***

* TEMPORARY INLET SILT TRAP (HAY OR STRAW BALES) 33 X 7BALES/TRAP = 231 BALES
PAY ITEM: 204-02 TEMPORARY HAY OR STRAW BALES

** PAY ITEM: 204-05-A TEMPORARY SEDIMENT CHECK DAM (HAY) 354 EACH

*** PAY ITEM: 204-05-B TEMPORARY SEDIMENT CHECK DAM (STONE) 47 EACH

TEMPORARY SILT FENCING (ITEM 204-06) ▲

FROM STATION	TO STATION	SIDE CL	LIN. METERS
11+175	11+200	RT	25
12+825	12+925	LT	100
13+200	13+400	LT	200
13+825	14+100	LT	275
13+900	14+075	RT	175
14+475	14+600	LT	125
15+000	15+250	LT	250
15+025	15+250	RT	225
17+175	17+750	LT	575
17+475	17+675	RT	200
18+775	19+025	LT	250
19+100	19+200	LT	100
19+425	19+600	LT	175
19+675	19+975	LT	300
19+850	19+950	RT	100
20+375	20+525	RT	150
20+500	20+700	LT	200
20+625	20+675	RT	50
20+950	21+125	LT	175
21+475	21+825	RT	350
21+650	21+825	LT	175
22+150	22+225	LT	75
10+190	—	LT. DITCH	5
11+205	—	LT. DITCH	5
11+450	—	LT. DITCH	5
12+240	—	LT. DITCH	5
12+240	—	RT. DITCH	5
12+555	—	LT. DITCH	5
13+200	—	LT. DITCH	5
13+200	—	RT. DITCH	5
13+230	—	MEDIAN DITCH	5
13+285	—	MEDIAN DITCH	5
13+800	—	RT. DITCH	5
13+800	—	LT. DITCH	5
14+100	—	RT. DITCH	5
14+100	—	LT. DITCH	5
14+475	—	LT. DITCH	5
14+540	—	RT. DITCH	5
15+000	—	LT. DITCH	5
15+000	—	RT. DITCH	5
15+250	—	RT. DITCH	5
15+250	—	LT. DITCH	5
16+105	—	RT. DITCH	5
16+105	—	LT. DITCH	5
16+460	—	LT. DITCH	5
16+460	—	RT. DITCH	5
18+475	—	LT. DITCH	5
17+230	—	LT. DITCH	5
17+700	—	LT. DITCH	5
17+700	—	RT. DITCH	5
19+470	—	LT. DITCH	5
19+470	—	RT. DITCH	5
19+485	—	RT. DITCH	5
19+950	—	LT. DITCH	5
19+950	—	RT. DITCH	5
20+275	—	LT. DITCH	5
20+550	—	LT. DITCH	5
20+700	—	LT. DITCH	5
20+700	—	RT. DITCH	5
21+010	—	RT. DITCH	5
21+465	—	RT. DITCH	5
21+695	—	LT. DITCH	5
21+805	—	RT. DITCH	5
21+805	—	LT. DITCH	5
22+150	—	LT. DITCH	5
22+150	—	SPEC. LT. DITCH	5
22+200	—	RT. DITCH	5
		TOTAL	4,475

▲ LOCATIONS SUBJECT TO CHANGE BY PROJECT ENGINEER TO ACCOMMODATE FIELD CONDITIONS.

SHEET NUMBER 3f

PARISH: VERNON
FEDERAL PROJECT: NH-06-01(015)
STATE PROJECT: 417-01-0014

DESIGNED: JDH
CHECKED: TD
DETAILED: JH
CHECKED: JDH
DATE: DECEMBER 2001
SHEET: 3a

REVISION DESCRIPTION | DATE | NO.

ROUTE LA 28
JUNCTION LA 8 - JUNCTION LA 121

SUMMARY SHEET

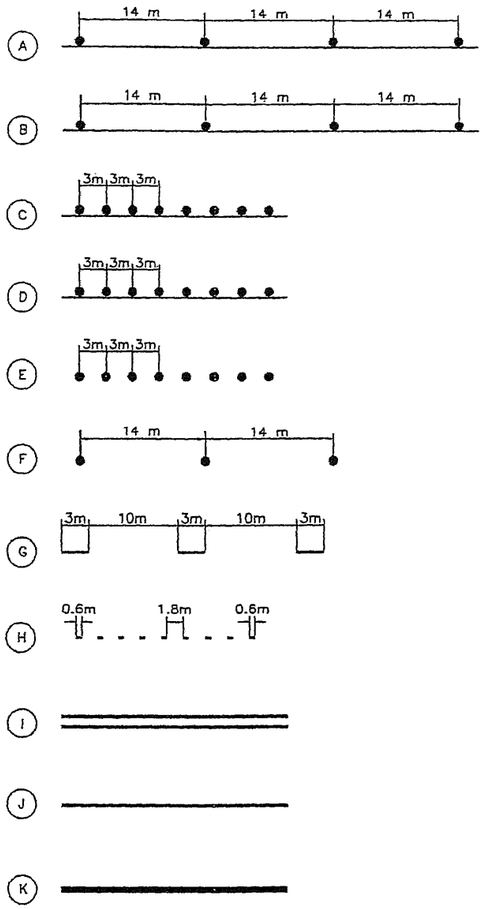
EXAMPLE: RIPRAP CHANNEL

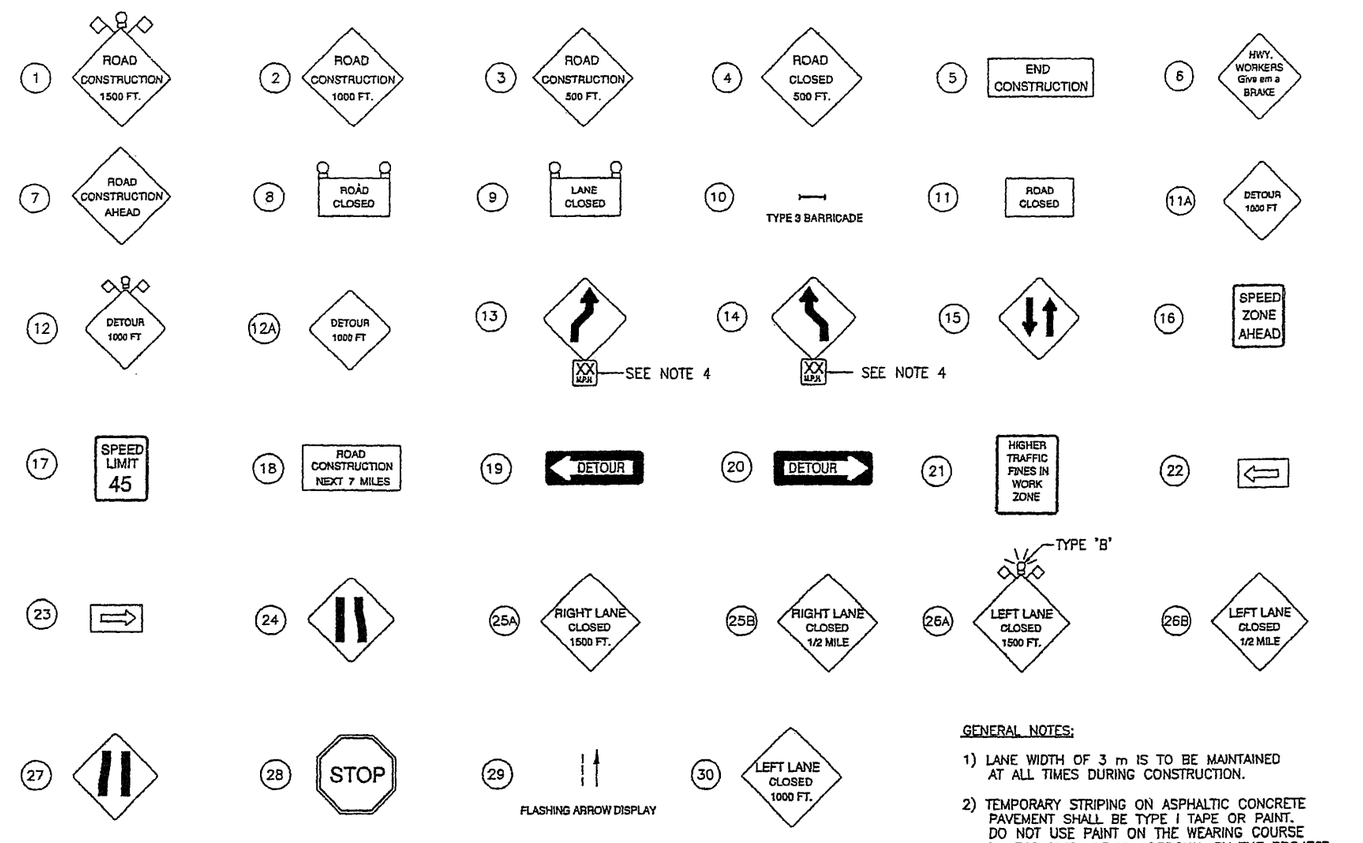
RIP RAP CHANNEL (TYPE 2)

STATION	STATION	SIDE	DESCRIPTION	LENGTH (meters)	WIDTH (meters)	DEPTH (meters)	THICKNESS (mm)	SQ. METERS
10+373	10+410	Lt.	RIP RAP (15kg)	40	8.4	0.6	400	336
10+410	10+450	Lt.	RIP RAP (15kg)	40	4.25	0.6	400	170
13+800	13+800	Lt.	RIP RAP (15kg)	5.5	3.6	0.3	400	20
15+375	15+395	Lt.	RIP RAP (15kg)	40	7.2	0.6	400	288
16+970	17+005	Lt.	RIP RAP (15kg)	35	4.25	0.6	400	149
10+500	10+525	Rt.	RIP RAP (15kg)	25	4.25	0.6	400	106
13+743	13+748	Rt.	RIP RAP (15kg)	28	4.25	0.6	400	119
14+025	14+050	Rt.	RIP RAP (15kg)	25	4.25	0.6	400	106
15+277	15+287	Rt.	RIP RAP (15kg)	10	4.25	0.6	400	42
15+282	15+283	Rt.	RIP RAP (15kg)	33	3.2	0.6	400	106
15+450	15+475	Rt.	RIP RAP (15kg)	25	4.25	0.6	400	106
16+300	16+325	Rt.	RIP RAP (15kg)	25	4.25	0.6	400	106
Total								1654

See Standard Plan PD-01M

SHEET NUMBER
PARISH
FEDERAL PROJECT
STATE PROJECT
DESIGNED
CHECKED
DETAILED
CHECKED
DATE
SHEET
NO. DATE REVISION DESCRIPTION BY





NOTE: REMOVE TEMPORY EROSION CONTROLS AFTER SEEDING AND ESTABLISHMENT OF VEGETATION.

GENERAL NOTES:

1) LANE WIDTH OF 3 m IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

2) TEMPORARY STRIPING ON ASPHALTIC CONCRETE PAVEMENT SHALL BE TYPE I TAPE OR PAINT. DO NOT USE PAINT ON THE WEARING COURSE UNLESS GIVEN PRIOR APPROVAL BY THE PROJECT ENGINEER.

3) DURING CONSTRUCTION THE CONTRACTOR IS TO MAINTAIN TEMPORARY DRIVES FROM THE RESIDENCES TO THE NEW ROADWAY AND/OR THE EXISTING ROADWAY AT NO DIRECT PAY.

4) ADVISORY SPEED PLATE (W13-1): RECOMMENDED SPEED TO BE DETERMINED IN THE FIELD.

SEQUENCE OF CONSTRUCTION - PHASE I

STAGE 1

PLACE CONSTRUCTION SIGNING AND INSTALL SILT FENCE; PERFORM CLEARING & GRUBBING OPERATION; MAINTAIN TWO WAY TRAFFIC ON EXISTING ROADWAY, INTERSECTING ROADWAYS AND DRIVEWAYS.

STAGE 2

EXTEND AND/OR CONSTRUCT CROSS DRAINS WHICH WILL BE UNDER NEW WESTBOUND ROADWAY; INSTALL EROSION PROTECTION FOR MEDIAN INLETS; PERFORM EXCAVATION AND EMBANKMENT OPERATION FOR WESTBOUND ROADWAY, INTERSECTING ROADWAYS ON NORTH SIDE OF WESTBOUND ROADWAY AND NORTH ½ OF MEDIAN OPENINGS; INSTALL CHECK DAMS AFTER DITCH GRADING; CONSTRUCT EMBANKMENT FOR ROADWAY TRANSITION AT EAST AND WEST END OF PROJECT; CONSTRUCT BRIDGES ON WESTBOUND ROADWAY WITH PERMANENT GUARDRAILS ON EAST END AND TEMPORARY GUARDRAILS ON WEST END OF THE BRIDGES.

STAGE 3

CONSTRUCT BASE AND BINDER COURSE ON WESTBOUND ROADWAY, INTERSECTING ROADWAYS ON NORTH SIDE, NORTH ½ OF MEDIAN OPENINGS AND ROADWAY TRANSITION AT EAST AND WEST END OF PROJECT; BEFORE SWITCHING TRAFFIC TO NEW ROADWAY, PLACE TEMPORARY PAVEMENT STRIPES AND CONSTRUCTION SIGNING FOR TWO WAY TRAFFIC ON NEW ROADWAY.

SEQUENCE OF CONSTRUCTION - PHASE II

STAGE 1

DETOUR TWO WAY TRAFFIC AT EAST AND WEST END OF PROJECT ON TO NEW ROADWAY, MAINTAIN TWO WAY TRAFFIC ON NEW ROADWAY, DRIVEWAYS AND INTERSECTING ROADWAYS.

STAGE 2

REMOVE EXISTING PAVEMENT AND BASE ON EXISTING ROADWAY; EXTEND AND/OR CONSTRUCT CROSS DRAINS UNDER EXISTING ROADWAY; PERFORM EXCAVATION AND EMBANKMENT OPERATION FOR EASTBOUND ROADWAY, INTERSECTING ROADWAYS AND SOUTH ½ OF MEDIAN OPENINGS; INSTALL CHECK DAMS AFTER DITCH GRADING; CONSTRUCT BRIDGES ON EASTBOUND ROADWAY WITH PERMANENT GUARDRAIL ON WEST END OF THE BRIDGES.

STAGE 3

CONSTRUCT BASE, BINDER AND WEARING COURSES ON EASTBOUND ROADWAY, INTERSECTING ROADWAYS ON SOUTH SIDE AND SOUTH ½ OF MEDIAN OPENINGS.

STAGE 4

PLACE PERMANENT PAVEMENT STRIPING AND CONSTRUCTION SIGNING ON THE EASTBOUND LANES.

SEQUENCE OF CONSTRUCTION - PHASE III

STAGE 1

DIVERT EASTBOUND TRAFFIC AT WEST END OF PROJECT ON TO NEW EASTBOUND LANES.

STAGE 2

REMOVE TEMPORARY GUARDRAILS ON WEST END OF THE BRIDGES ON THE WESTBOUND LANES.

STAGE 3

CONSTRUCT WEARING COURSE FOR WESTBOUND LANES UNDER TRAFFIC; PLACE PERMANENT STRIPING ON THE WESTBOUND LANES.

FOR INFORMATIONAL PURPOSES ONLY

CONSTRUCTION LEGEND

- REMOVAL THIS PHASE
- CONSTRUCT DETOUR OR TEMPORARY ASPHALT PAVING THIS PHASE
- CONSTRUCTION THIS PHASE
- EXISTING ROADWAY
- NEW BRIDGE CONSTRUCTION THIS PHASE
- NEW CROSS DRAIN CONSTRUCTION THIS PHASE
- TEMPORARY CONNECTION
- SF—SF — SILT FENCE
- TEMPORARY BERM
- SEDIMENT CHECK DAM (STONE)
- STABILIZED CONSTRUCTION ENTRANCE
- HAY BALES OR SEDIMENT CHECK DAM (HAY)
- INLET PROTECTION
- TEMPORARY SLOPE DRAIN

SHEET NUMBER 63

PARISH: VERNON
FEDERAL PROJECT: NH-06-01(015)
STATE PROJECT: 417-01-0014

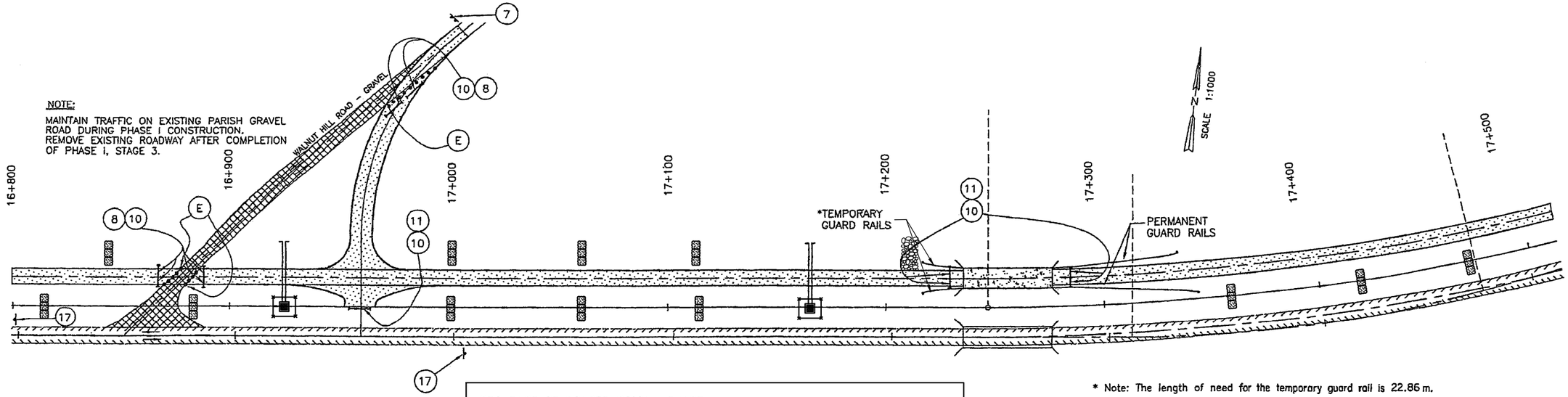
DESIGNED P.E. KAJOR
CHECKED J.D.HETHERWICK
DETAILED J.D.HAGE
CHECKED J.D.HETHERWICK
DATE DECEMBER 2001
SHEET B1

REVISION DESCRIPTION | DATE | NO.

ROUTE LA 28
JUNCTION LA 8 - JUNCTION LA 121

LEGEND-STRIPING, SIGNS & BARRICADES

EXAMPLE I - Page 9 of 11



SEQUENCE OF CONSTRUCTION - PHASE I

STAGE I

PLACE CONSTRUCTION SIGNING AND INSTALL SILT FENCE; PERFORM CLEARING & GRUBBING OPERATION; MAINTAIN TWO WAY TRAFFIC ON EXISTING ROADWAY. INTERSECTING ROADWAYS AND DRIVEWAYS.

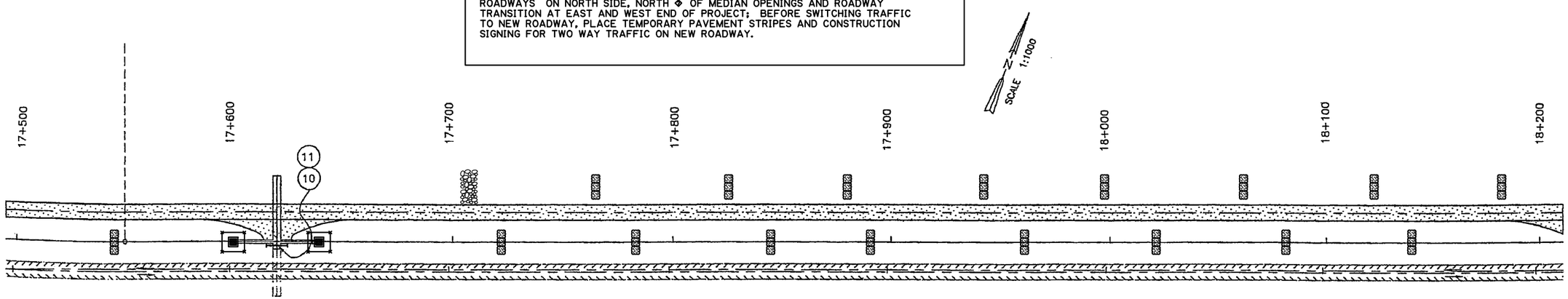
STAGE 2

EXTEND AND/OR CONSTRUCT CROSS DRAINS WHICH WILL BE UNDER NEW WESTBOUND ROADWAY; INSTALL EROSION PROTECTION FOR MEDIAN INLETS; PERFORM EXCAVATION AND EMBANKMENT OPERATION FOR WESTBOUND ROADWAY. INTERSECTING ROADWAYS ON NORTH SIDE OF WESTBOUND ROADWAY AND NORTH ½ OF MEDIAN OPENINGS; INSTALL CHECK DAMS AFTER DITCH GRADING; CONSTRUCT EMBANKMENT FOR ROADWAY TRANSITION AT EAST AND WEST END OF PROJECT; PROVIDE TEMPORARY SLOPE AND/OR CHANNEL STABILIZATION; CONSTRUCT BRIDGES ON WESTBOUND ROADWAY WITH PERMANENT GUARDRAILS ON EAST END AND TEMPORARY GUARDRAILS ON WEST END OF THE BRIDGES.

STAGE 3

CONSTRUCT BASE AND BINDER COURSE ON WESTBOUND ROADWAY, INTERSECTING ROADWAYS ON NORTH SIDE, NORTH ⅓ OF MEDIAN OPENINGS AND ROADWAY TRANSITION AT EAST AND WEST END OF PROJECT; BEFORE SWITCHING TRAFFIC TO NEW ROADWAY, PLACE TEMPORARY PAVEMENT STRIPES AND CONSTRUCTION SIGNING FOR TWO WAY TRAFFIC ON NEW ROADWAY.

* Note: The length of need for the temporary guard rail is 22.86 m.
Cost of temporary guard rail to be paid for under item S-102 in entirety.



NOTES:

1) FOR LEGEND, SEE SHEET NO. 58.

2) MINIMUM CONSTRUCTION SIGNING. ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER, SHALL BE INSTALLED AT NO ADDITIONAL COST.

3) ALL EDGE LINES, LANE LINES AND CENTERLINES SHALL BE MARKED WITH THE APPROPRIATE COLOR MARKINGS. TEMPORARY PAVEMENT MARKINGS MAY BE EITHER TAPE OR PAINTED STRIPES EXCEPT ON BRIDGE DECKS OR OTHER PERMANENT SURFACES WHERE REMOVABLE TAPE MUST BE USED FOR TEMPORARY MARKINGS. MARKINGS SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR AND SHALL BE REFURBISHED WHEN NEEDED AND WHEN REQUESTED BY THE PROJECT ENGINEER.

4) LOCATION OF EROSION AND SEDIMENT CONTROL DEVICES ARE SHOWN FOR INITIAL WORK. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING OF THESE DEVICES AT DIFFERENT SEQUENCES OF CONSTRUCTION.

FOR INFORMATIONAL PURPOSES ONLY

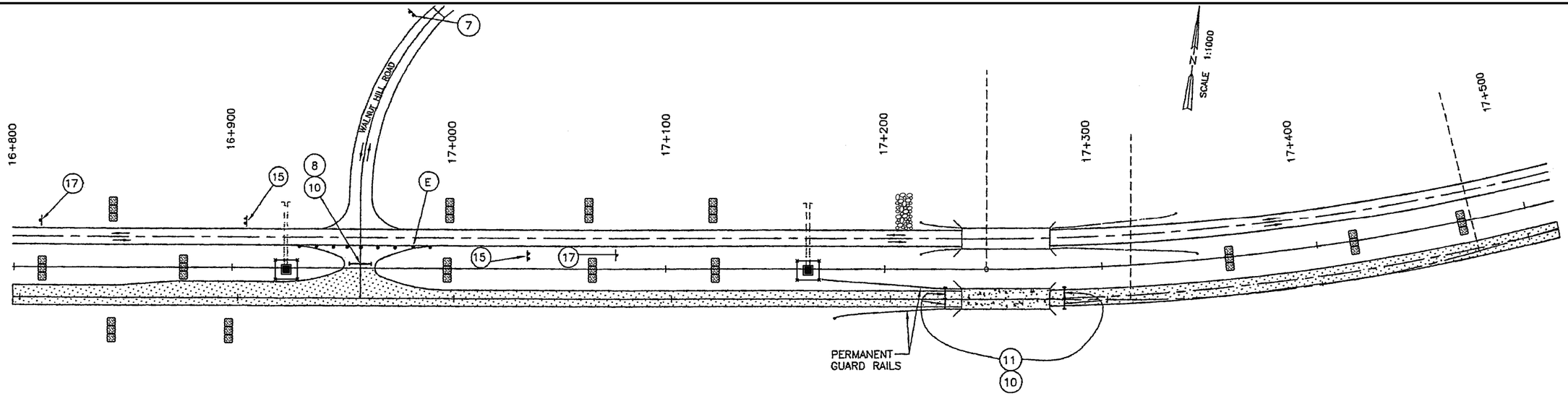
SHEET NUMBER	69
PARISH	VERNON
FEDERAL PROJECT	NH-06-01(015)
STATE PROJECT	417-01-0014
DESIGNED / CHECKED	P.E. KAJOR / J.D.HETHERWICK
DETAILED / CHECKED	J.D. HAISE / J.D.HETHERWICK
DATE / SHEET	DECEMBER 2001

NO. | DATE | REVISION DESCRIPTION | BY

ROUTE LA 28
JUNCTION LA 8 - JCT. LA 121

CONSTRUCTION SEQUENCING & SIGNING

EXAMPLE I - Page 10 of 11



SEQUENCE OF CONSTRUCTION - PHASE II

STAGE 1

DETOUR TWO WAY TRAFFIC AT EAST AND WEST END OF PROJECT ON TO NEW ROADWAY, MAINTAIN TWO WAY TRAFFIC ON NEW ROADWAY, DRIVEWAYS AND INTERSECTING ROADWAYS.

STAGE 2

REMOVE EXISTING PAVEMENT AND BASE ON EXISTING ROADWAY; EXTEND AND/OR CONSTRUCT CROSS DRAINS UNDER EXISTING ROADWAY; PERFORM EXCAVATION AND EMBANKMENT OPERATION FOR EASTBOUND ROADWAY, INTERSECTING ROADWAYS AND SOUTH ½ OF MEDIAN OPENINGS; INSTALL CHECK DAMS AFTER DITCH GRADING; PROVIDE TEMPORARY SLOPE AND/OR CHANNEL STABILIZATION; CONSTRUCT BRIDGES ON EASTBOUND ROADWAY WITH PERMANENT GUARDRAIL ON WEST END OF THE BRIDGES.

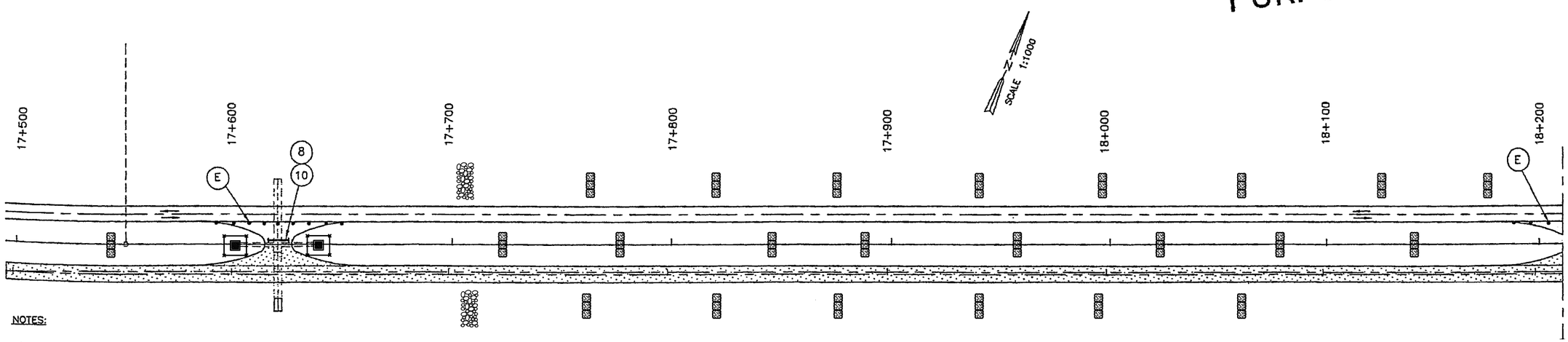
STAGE 3

CONSTRUCT BASE, BINDER AND WEARING COURSES ON EASTBOUND ROADWAY, INTERSECTING ROADWAYS ON SOUTH SIDE AND SOUTH ½ OF MEDIAN OPENINGS.

STAGE 4

PLACE PERMANENT PAVEMENT STRIPING AND CONSTRUCTION SIGNING ON THE EASTBOUND LANES.

FOR INFORMATIONAL PURPOSES ONLY



NOTES:

1) FOR LEGEND, SEE SHEET NO. 58.

2) MINIMUM CONSTRUCTION SIGNING. ANY ADDITIONAL SIGNS SHOWN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND REQUIRED BY THE PROJECT ENGINEER, SHALL BE INSTALLED AT NO ADDITIONAL COST.

3) ALL EDGE LINES, LANE LINES AND CENTERLINES SHALL BE MARKED WITH THE APPROPRIATE COLOR MARKINGS. TEMPORARY PAVEMENT MARKINGS MAY BE EITHER TAPE OR PAINTED STRIPES EXCEPT ON BRIDGE DECKS OR OTHER PERMANENT SURFACES WHERE REMOVABLE TAPE MUST BE USED FOR TEMPORARY MARKINGS. MARKINGS SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR AND SHALL BE REFURBISHED WHEN NEEDED AND WHEN REQUESTED BY THE PROJECT ENGINEER.

4) LOCATION OF EROSION AND SEDIMENT CONTROL DEVICES ARE SHOWN FOR INITIAL WORK. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING OF THESE DEVICES AT DIFFERENT SEQUENCES OF CONSTRUCTION.

SHEET NUMBER 78

PARISH: VERNON

FEDERAL PROJECT: NH-06-01(015)

STATE PROJECT: 417-01-0014

DESIGNED: P.E. KAJOR
CHECKED: J.D.HETHERWICK
DETAILED: J.D. HANSE
CHECKED: J.D.HETHERWICK
DATE: DECEMBER 2001
SHEET: 87

NO. | DATE | REVISION DESCRIPTION

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ROUTE LA 28
JUNCTION LA 8 - JCT. LA 121

CONSTRUCTION SEQUENCING & SIGNING

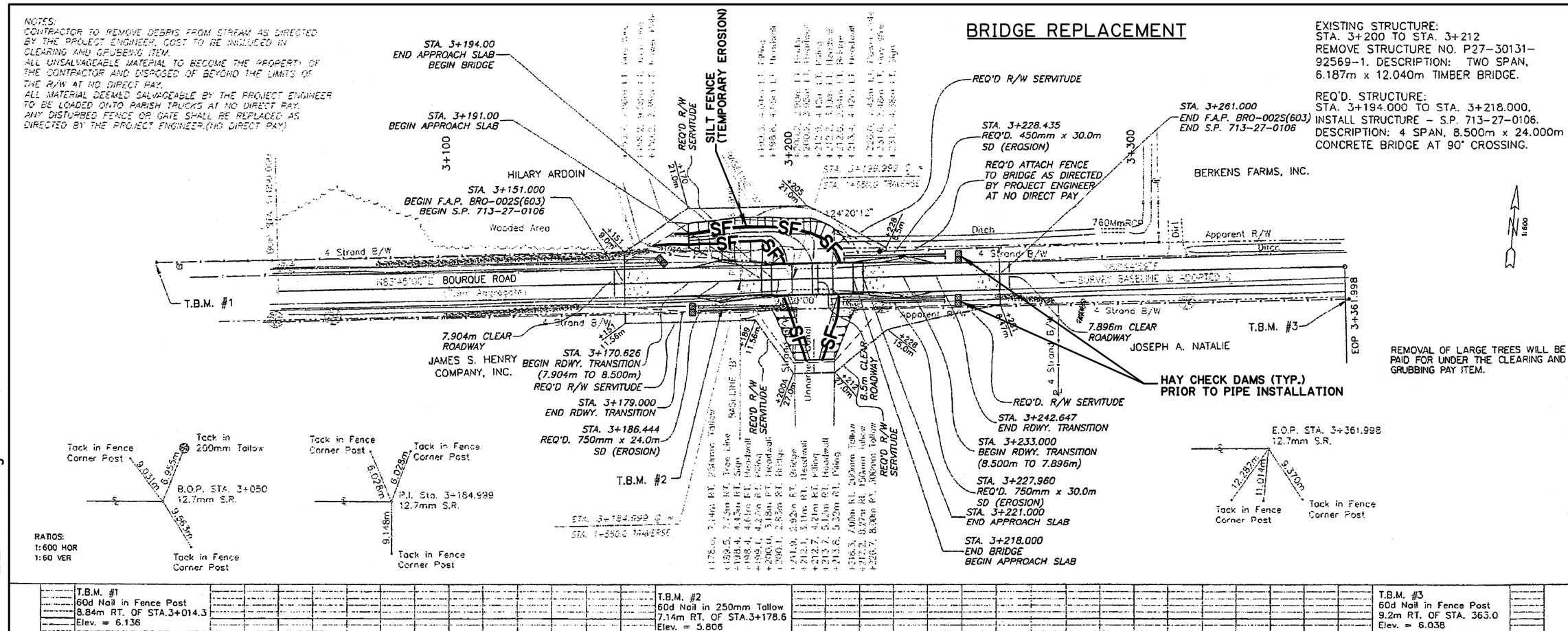
EXAMPLE 1 - Page 11 of 11

NOTES:
CONTRACTOR TO REMOVE DEBRIS FROM STREAM AS DIRECTED BY THE PROJECT ENGINEER. COST TO BE INCLUDED IN CLEARING AND GRUBBING ITEM.
ALL UNSALVAGEABLE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF BEYOND THE LIMITS OF THE R/W AT NO DIRECT PAY.
ALL MATERIAL DEEMED SALVAGEABLE BY THE PROJECT ENGINEER TO BE LOADED ONTO PARISH TRUCKS AT NO DIRECT PAY.
ANY DISTURBED FENCE OR GATE SHALL BE REPLACED AS DIRECTED BY THE PROJECT ENGINEER.(NO DIRECT PAY)

BRIDGE REPLACEMENT

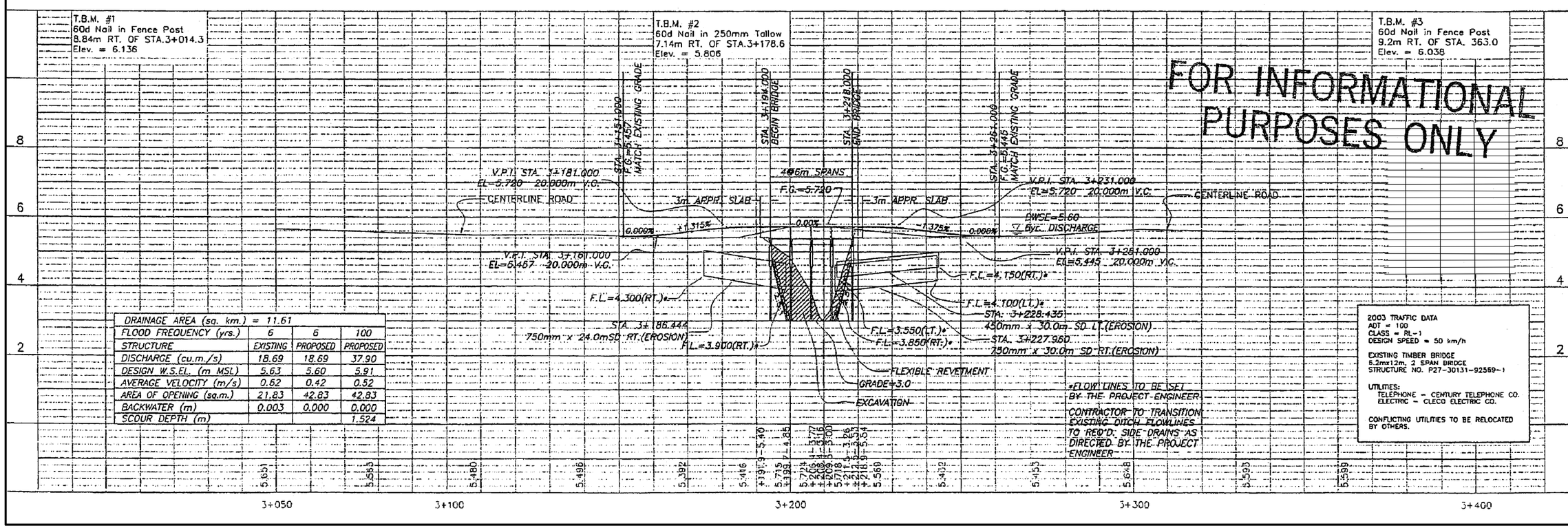
EXISTING STRUCTURE:
STA. 3+200 TO STA. 3+212
REMOVE STRUCTURE NO. P27-30131-92569-1. DESCRIPTION: TWO SPAN, 6.187m x 12.040m TIMBER BRIDGE.

REQ'D. STRUCTURE:
STA. 3+194.000 TO STA. 3+218.000.
INSTALL STRUCTURE - S.P. 713-27-0106.
DESCRIPTION: 4 SPAN, 8.500m x 24.000m CONCRETE BRIDGE AT 90° CROSSING.



REMOVAL OF LARGE TREES WILL BE PAID FOR UNDER THE CLEARING AND GRUBBING PAY ITEM.

RATIOS:
1:600 HOR
1:60 VER



DRAINAGE AREA (sq. km.) = 11.61			
FLOOD FREQUENCY (yrs.)	6	6	100
STRUCTURE	EXISTING	PROPOSED	PROPOSED
DISCHARGE (cu.m./s)	18.69	18.69	37.90
DESIGN W.S.EL. (m MSL)	5.63	5.60	5.91
AVERAGE VELOCITY (m/s)	0.62	0.42	0.52
AREA OF OPENING (sq.m.)	21.83	42.83	42.83
BACKWATER (m)	0.003	0.000	0.000
SCOUR DEPTH (m)			1.524

2003 TRAFFIC DATA
ADT = 100
CLASS = RL-1
DESIGN SPEED = 50 km/h

EXISTING TIMBER BRIDGE
6.2mx12m, 2 SPAN BRIDGE
STRUCTURE NO. P27-30131-92569-1

UTILITIES:
TELEPHONE - CENTURY TELEPHONE CO.
ELECTRIC - CLECO ELECTRIC CO.

CONFLICTING UTILITIES TO BE RELOCATED BY OTHERS.

SHEET NUMBER 4

PARISH: JEFFERSON DAVIS
FEDERAL PROJECT: BRO-002S(603)
STATE PROJECT: 713-27-0106

BOURQUE ROAD
UNNAMED CANAL BRIDGE
PLAN AND PROFILE

ROAD DESIGN

DESIGNED D. RANDOLPH
CHECKED T. VINCENT
DETAILED J. FABRE
CHECKED T. VINCENT
DATE 3/1/99
SHEET

NO. | DATE | REVISION DESCRIPTION | BY