Alternative C

Possible Project 4

Typical Section Sheets,
Construction Phasing Sheets,
Plan Profile Sheets and
Construction Cost Estimate Sheets

P.E.

FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.		1

GENERAL INDEX

FOR DETAILED INDEX OF PLANS SEE SHEET NO. 2

DESCRIPTION	NUMBER OF SHEETS
TITLE SHEET	1
DETAILED INDEX	
GENERAL NOTES	
TYPICAL SECTIONS	
QUANTITIES	
PLAN AND PROFILES	
SPECIAL DESIGN – ROADWAY ITEMS	
BRIDGE DRAWINGS	
SPECIAL DESIGN – BRIDGES	
CROSS-SECTIONS	
TOTAL SHEETS	

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

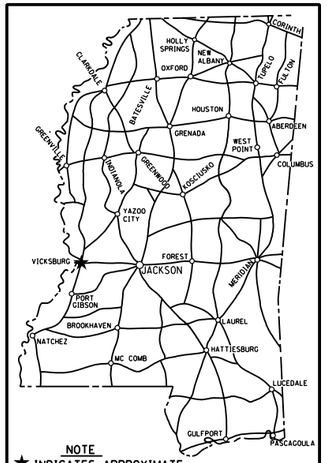
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT NO. IMD-0020-01(181) 100367/002000

ALTERNATIVE C, PROJECT 4

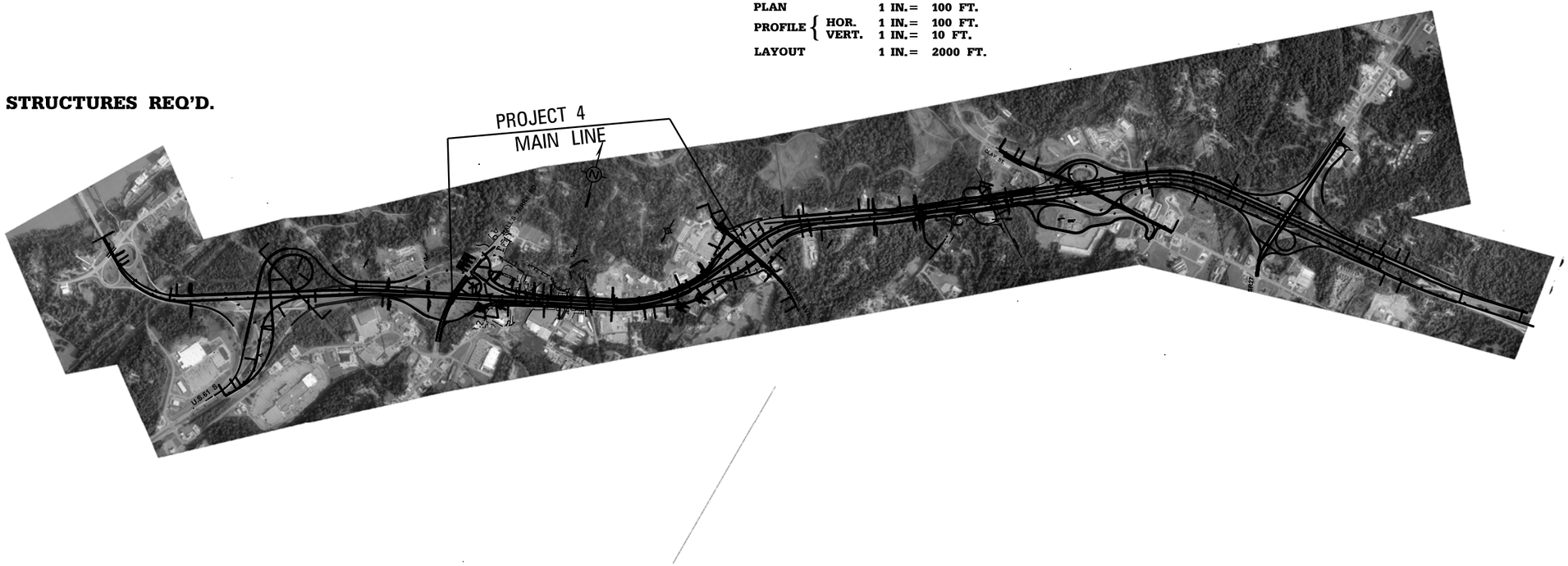
SCALES

PLAN		1 IN. = 100 FT.
PROFILE	HOR.	1 IN. = 100 FT.
	VERT.	1 IN. = 10 FT.
LAYOUT		1 IN. = 2000 FT.



NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.

BRIDGE STRUCTURES REQ'D.



DESIGN CONTROL
_____ MPH = V (SPEED DESIGN)
ADT (____) = _____ : ADT (____) = _____
DHV = _____ : D = _____% T = _____%

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATERS PERMITS
(NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY):

	WATERS	WETLANDS
NATIONWIDE #14	☐	☐
NATIONWIDE (OTHER)*	☐	☐
GENERAL*	☐	☐
INDIVIDUAL (404)*	☐	☐

* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR

STORMWATER PERMIT ☐

Y	REQUIRED, CNOI SUBMITTED BY MDOT (DISTRIBUTED AREA≥5 ACRES+NTB 6484)
S	REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES+NTB 6483)
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: _____ DATE: _____

CONVENTIONAL SYMBOLS

COUNTY LINE
TOWN CORPORATION LINE
SECTION LINE
EXISTING ROAD OR TRAVELED WAY
PROPOSED ROAD OR TRAVELED WAY
RAILROAD
SURVEY LINE
BRIDGES

EQUATIONS

EXCEPTIONS

LENGTH DATA

LENGTH OF ROADWAY	FT.	MI.
LENGTH OF BRIDGES	FT.	MI.
LENGTH OF PROJECT (NET)		MI.
LENGTH OF EXCEPTIONS	FT.	MI.
LENGTH OF PROJECT (GROSS)		MI.

DATE	REVISIONS	BY

APPROVED:

CHIEF ENGINEER — DATE

EXECUTIVE DIRECTOR — DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

APPROVED:

DIVISION ADMINISTRATOR — DATE

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

TITLE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/6/2012 1:61:24:24 TITLE ALTERNATIVE C-4.DGN

COUNTY

STATE	PROJECT NO.
MISS.	

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
TITLE SHEET (1)		
DETAIL INDEX (1)		
DETAILED INDEX	*DI4-1*	
TYPICAL SECTIONS (4)		
TEMPORARY CONNECTIONS	*TS4-1*	
MAINLINE AT WISCONSIN AVENUE UNDERPASS STA. 104+23	*TS4-2*	
NORTH FRONTAGE ROAD/I-20 WESTBOUND/I-20 EASTBOUND/AT STA. 125+00 NORTH FRONTAGE ROAD/I-20 WESTBOUND/I-20 EASTBOUND/SOUTH FRONTAGE ROAD AT STA. 95+00	*TS4-3*	
CROSSOVER AT I-20 STA. 92+50	*TS4-4*	
CONSTRUCTION PLANS (7)		
PHASE A1		
PHASE A2		
PHASE B1		
PHASE B2		
PHASE C1		
PHASE C2		
PHASE C3		
PLAN & PROFILE SHEETS (11)		
PHASE 4A-1	*4A-1*	
PHASE 4A-2	*4A-2*	
PHASE 4A-3	*4A-3*	
PHASE 4A-4	*4A-4*	
PHASE 4A-5	*4A-5*	
PHASE 4B-1	*4B-1*	
PHASE 4B-2	*4B-2*	
PHASE 4C-1	*4C-1*	
PHASE 4C-2	*4C-2*	
PHASE 4C-3	*4C-3*	
PHASE 4C-4	*4C-4*	
BRIDGE TYPICAL SECTIONS (1)		
BRIDGE TYPICAL SECTION	*BTS4-1*	

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

4/10/2012 1:31:19:14 INDEX.DGN

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

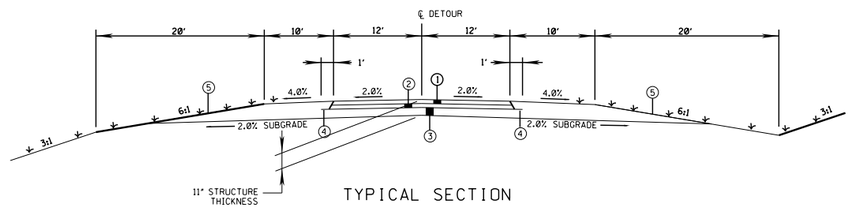
Detailed Index

Alternative C
Project 4

WORKING NUMBER
DI4-1
SHEET NUMBER

FILENAME: INDEX.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

STATE	PROJECT NO.
MISS.	



TYPICAL SECTION
TEMPORARY CONNECTION @ B.O.P.

ANGLE OF REPOSE PERMITTED

1. _" HOT MIX ASPHALT, MT (_ mm MIXTURE) (1 @ 2.0") REQ'D.
2. _" HOT MIX ASPHALT, MT (_ mm MIXTURE) (_ @ 3.0") REQ'D.
3. _" AND VARIABLE DEPTH GRANULAR MATERIAL (CLASS 9, GROUP A) REQ'D.
4. PRIME COAT REQ'D. (MAY BE DELETED WHEN PERMITTED BY THE ENGINEER).
5. INDICATES AREAS TO BE TREATED IN ACCORDANCE WITH THE VEGETATION SCHEDULE (SEE WK. SH. NO. VS-1)

TYPICAL SECTIONS ARE IN DIRECTION OF TRAFFIC

$FILE$

$DATE$

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

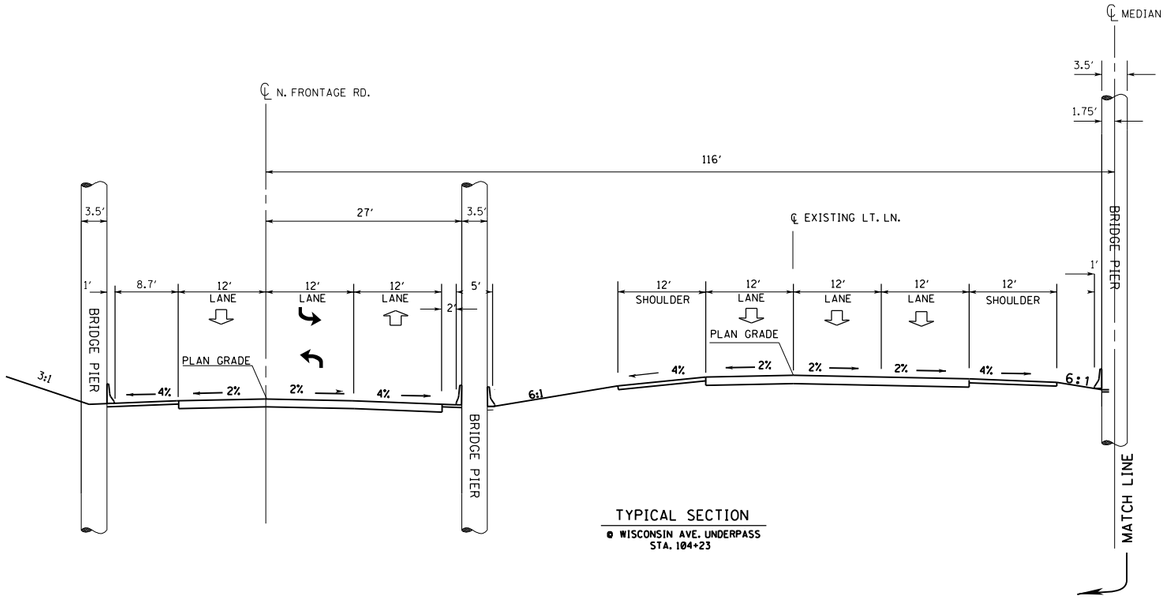
TYP SECTIONS - TEMP. CONNS
/I-20EB TO S. FR. RD NEAR 85+00
/S. FR. RD. TO I-20EB NEAR 135+00
/N. FR. RD. TO I-20WB NEAR 85+00
/ I-20WB TO N. FR. RD. NER 130+00

PROJECT NO.
COUNTY:
FILENAME:
DESIGN TEAM CHECKED DATE

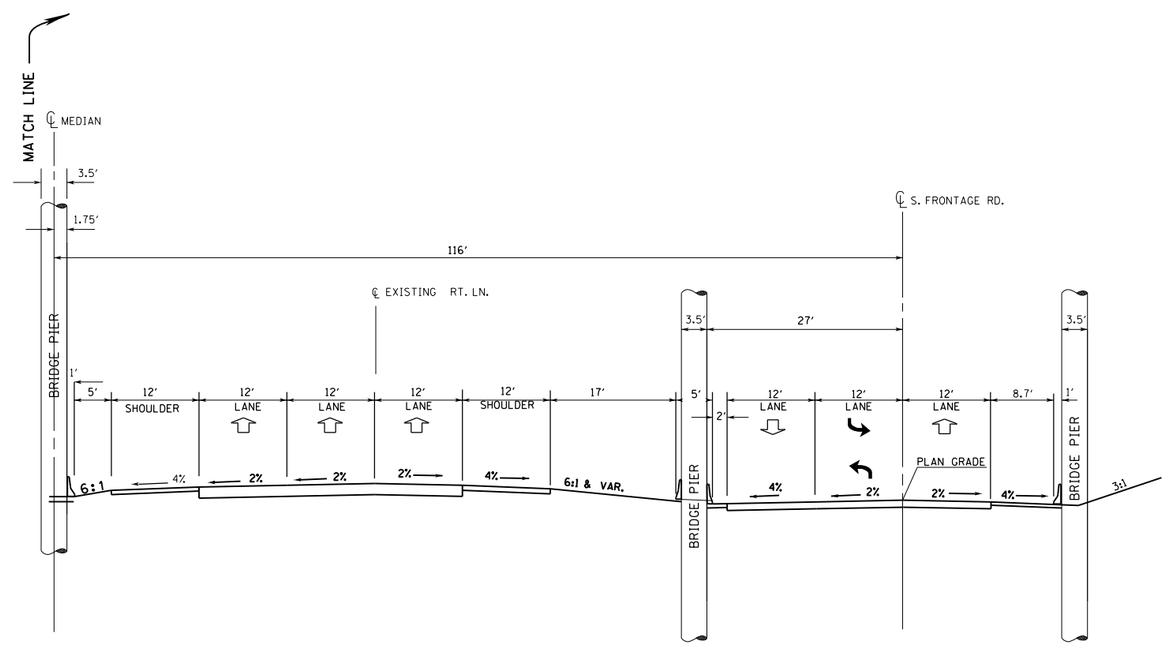
WORKING NUMBER
TS4-1
SHEET NUMBER

COUNTY: **PROJECT NO.: 4 PHASE A**
DESIGN TEAM: NEEL-SCHAFFER **FILENAME:**

STATE	PROJECT NO.
MISS.	



TYPICAL SECTION
@ WISCONSIN AVE. UNDERPASS
STA. 104+23



DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
@ WISCONSIN AVE. UNDERPASS
STA. 104+23

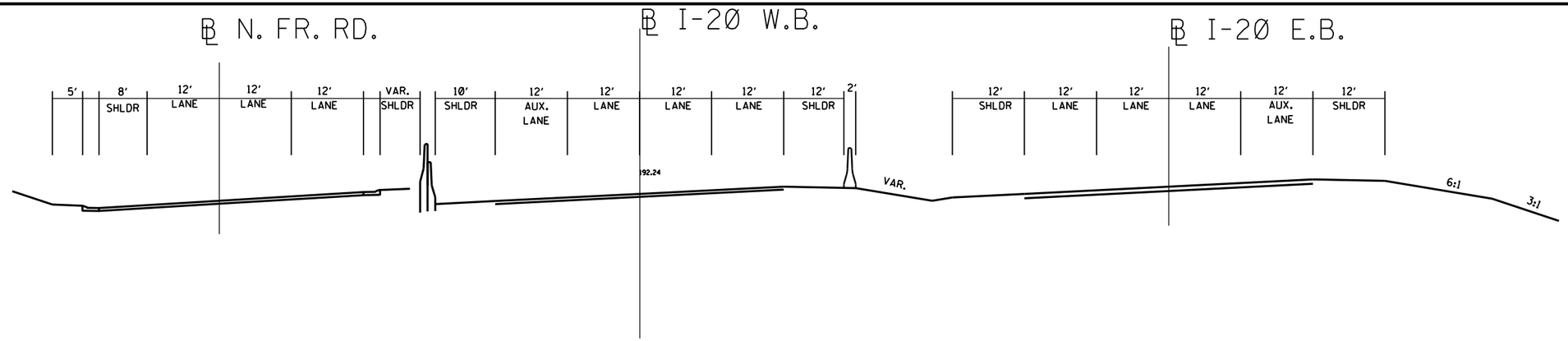
PROJECT NO.
COUNTY: WARREN
FILENAME:
DESIGN TEAM CHECKED DATE

WORKING NUMBER
TS4-2
SHEET NUMBER

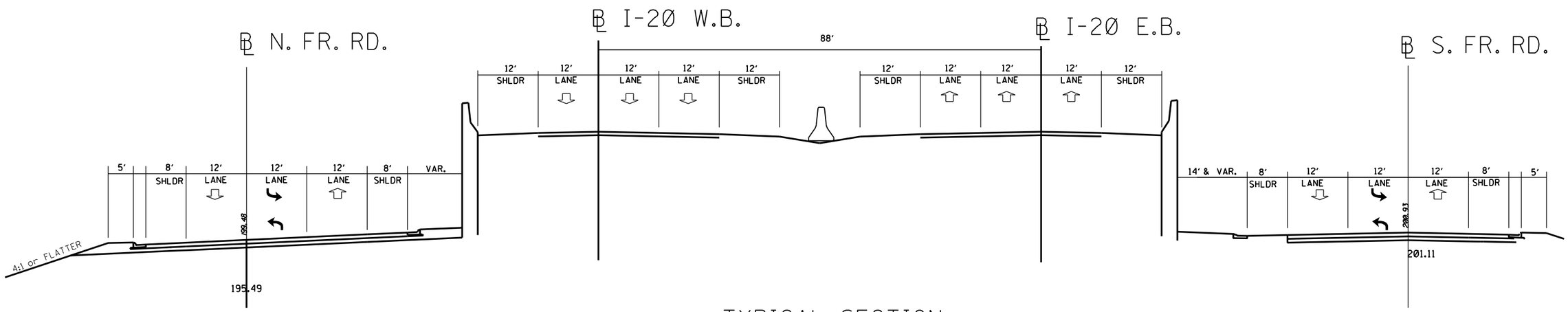
$FILES
$DATES

COUNTY: WARREN **PROJECT NO.: 4 PHASE A & B**
DESIGN TEAM: NEEL-SCHAFFER **FILENAME: TYP.DGN**

STATE	PROJECT NO.
MISS.	



TYPICAL SECTION
AT STA. 125+00



TYPICAL SECTION
AT STA. 95+00

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

N. FR. RD./ I-20 W.B./ I-20 E.B. @ 125+00
N. FR. RD./ I-20 W.B./ I-20 E.B./ S. FR. RD. @ 95+00

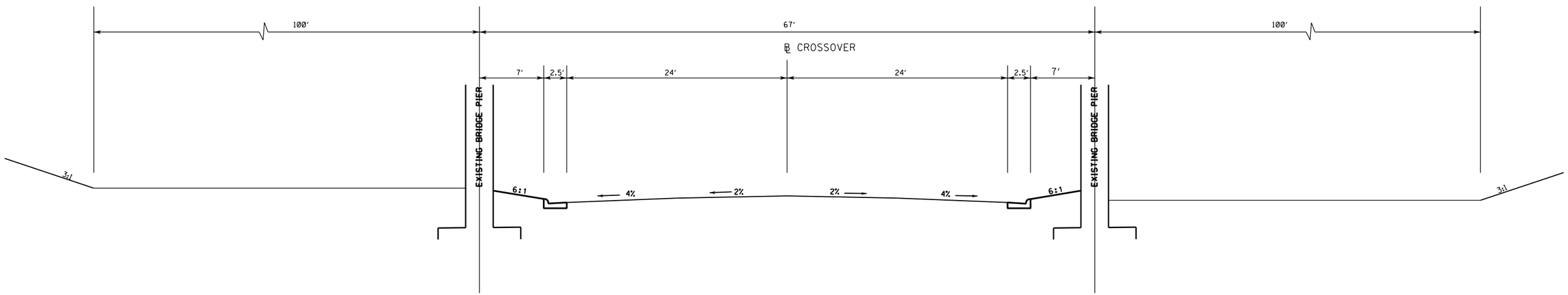
PROJECT NO.
COUNTY:
FILENAME:
DESIGN TEAM_____ CHECKED_____ DATE_____

WORKING NUMBER
TS4-3
SHEET NUMBER

$FILES
$DATES

COUNTY:
DESIGN TEAM: NEEL-SCHAFFER
PROJECT NO.: 4 PHASE A & B
FILENAME:

STATE	PROJECT NO.
MISS.	



TYPICAL SECTION
CROSSOVER
@ I-20 STA 92+50

$FILES

$DATES

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
CROSSOVER
@ I-20 STA 92+50

PROJECT NO.
COUNTY:
FILENAME:
DESIGN TEAM ____ CHECKED ____ DATE ____

WORKING NUMBER
TS4-4
SHEET NUMBER

COUNTY:
DESIGN TEAM: NEEL-SCHAFFER
PROJECT NO.: 4 PHASE B
FILENAME:

STATE	PROJECT NO.
MISS.	

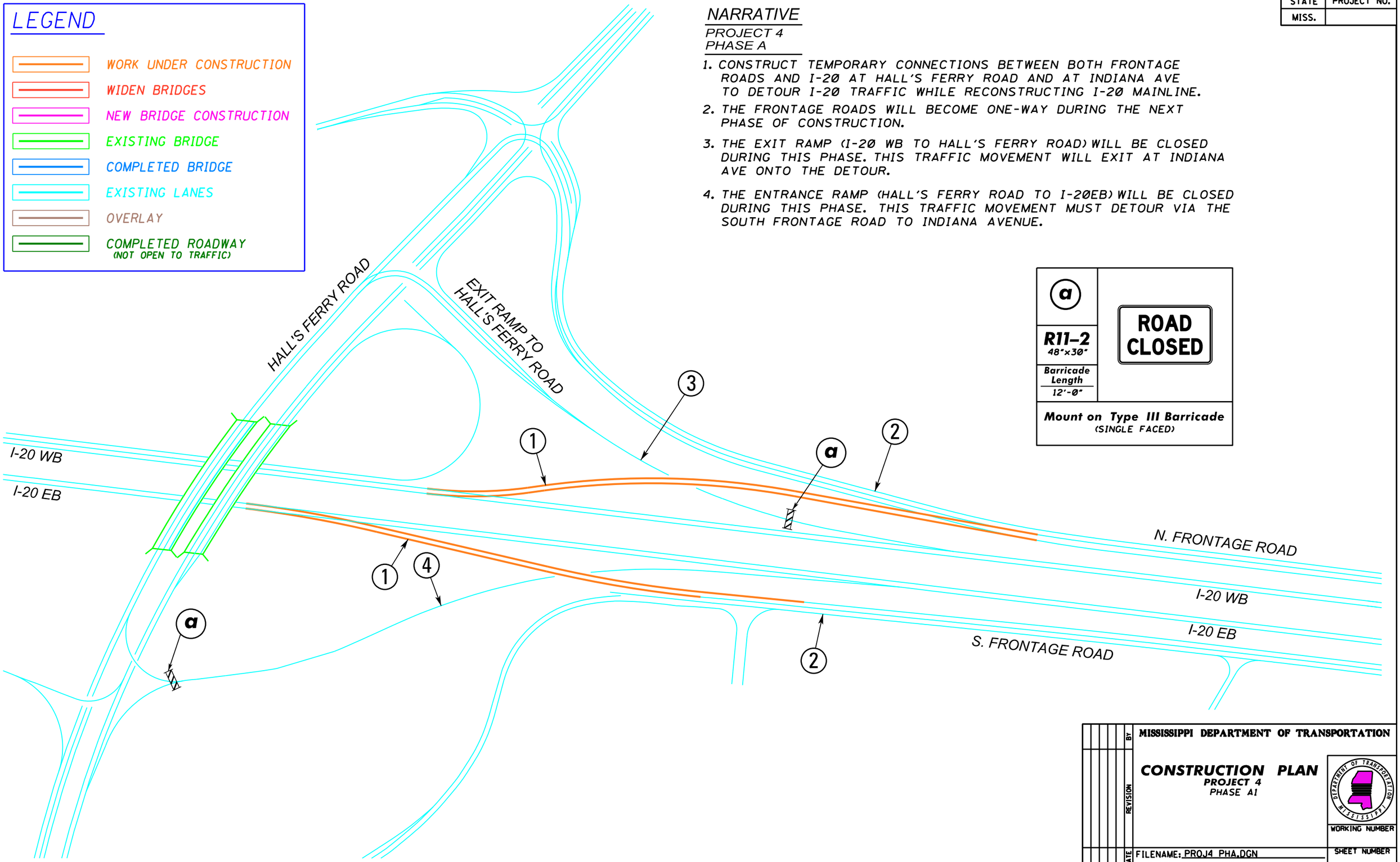
LEGEND

- WORK UNDER CONSTRUCTION
- WIDEN BRIDGES
- NEW BRIDGE CONSTRUCTION
- EXISTING BRIDGE
- COMPLETED BRIDGE
- EXISTING LANES
- OVERLAY
- COMPLETED ROADWAY (NOT OPEN TO TRAFFIC)

NARRATIVE

PROJECT 4
PHASE A

1. CONSTRUCT TEMPORARY CONNECTIONS BETWEEN BOTH FRONTAGE ROADS AND I-20 AT HALL'S FERRY ROAD AND AT INDIANA AVE TO DETOUR I-20 TRAFFIC WHILE RECONSTRUCTING I-20 MAINLINE.
2. THE FRONTAGE ROADS WILL BECOME ONE-WAY DURING THE NEXT PHASE OF CONSTRUCTION.
3. THE EXIT RAMP (I-20 WB TO HALL'S FERRY ROAD) WILL BE CLOSED DURING THIS PHASE. THIS TRAFFIC MOVEMENT WILL EXIT AT INDIANA AVE ONTO THE DETOUR.
4. THE ENTRANCE RAMP (HALL'S FERRY ROAD TO I-20EB) WILL BE CLOSED DURING THIS PHASE. THIS TRAFFIC MOVEMENT MUST DETOUR VIA THE SOUTH FRONTAGE ROAD TO INDIANA AVENUE.



a	ROAD CLOSED
R11-2 48"x30"	
Barricade Length 12'-0"	
Mount on Type III Barricade (SINGLE FACED)	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN
PROJECT 4
PHASE A1

WORKING NUMBER

SHEET NUMBER

FILENAME: PROJ4 PHA.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

REVISION | BY | DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

2/17/2011 14:14:24 PROJ4 PHA.DGN

STATE	PROJECT NO.
MISS.	

LEGEND

- WORK UNDER CONSTRUCTION
- WIDEN BRIDGES
- NEW BRIDGE CONSTRUCTION
- EXISTING BRIDGE
- COMPLETED BRIDGE
- EXISTING LANES
- OVERLAY
- COMPLETED ROADWAY (NOT OPEN TO TRAFFIC)

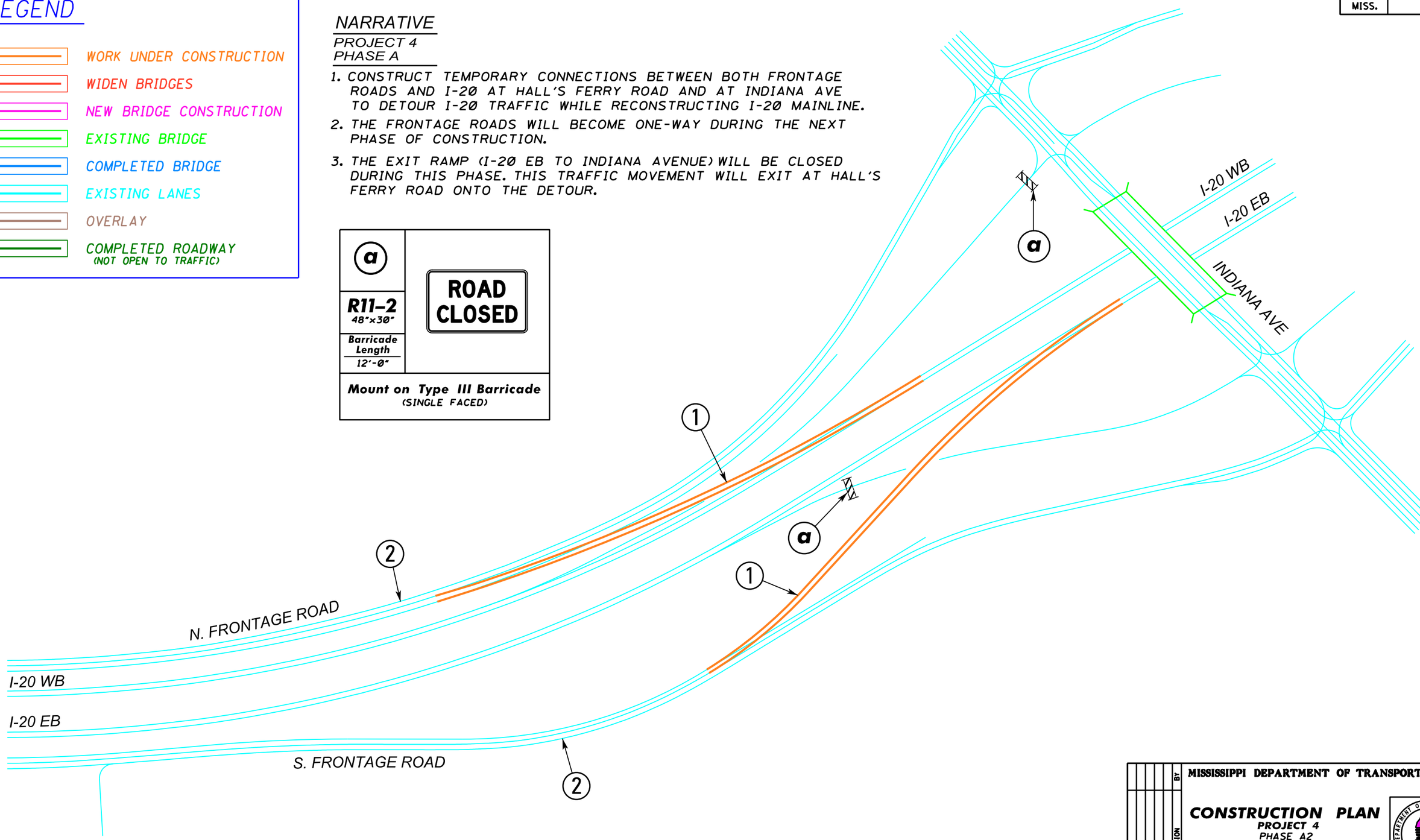
NARRATIVE

PROJECT 4
PHASE A

1. CONSTRUCT TEMPORARY CONNECTIONS BETWEEN BOTH FRONTAGE ROADS AND I-20 AT HALL'S FERRY ROAD AND AT INDIANA AVE TO DETOUR I-20 TRAFFIC WHILE RECONSTRUCTING I-20 MAINLINE.
2. THE FRONTAGE ROADS WILL BECOME ONE-WAY DURING THE NEXT PHASE OF CONSTRUCTION.
3. THE EXIT RAMP (I-20 EB TO INDIANA AVENUE) WILL BE CLOSED DURING THIS PHASE. THIS TRAFFIC MOVEMENT WILL EXIT AT HALL'S FERRY ROAD ONTO THE DETOUR.

a	ROAD CLOSED
R11-2 48"x30"	
Barricade Length 12'-0"	

Mount on Type III Barricade
(SINGLE FACED)



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN
PROJECT 4
PHASE A2

DATE	REVISION	BY

WORKING NUMBER

SHEET NUMBER

FILENAME: PROJ4 PHA.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

2/17/2011 14:14:46 PROJ4 PHA.DGN

STATE	PROJECT NO.
MISS.	

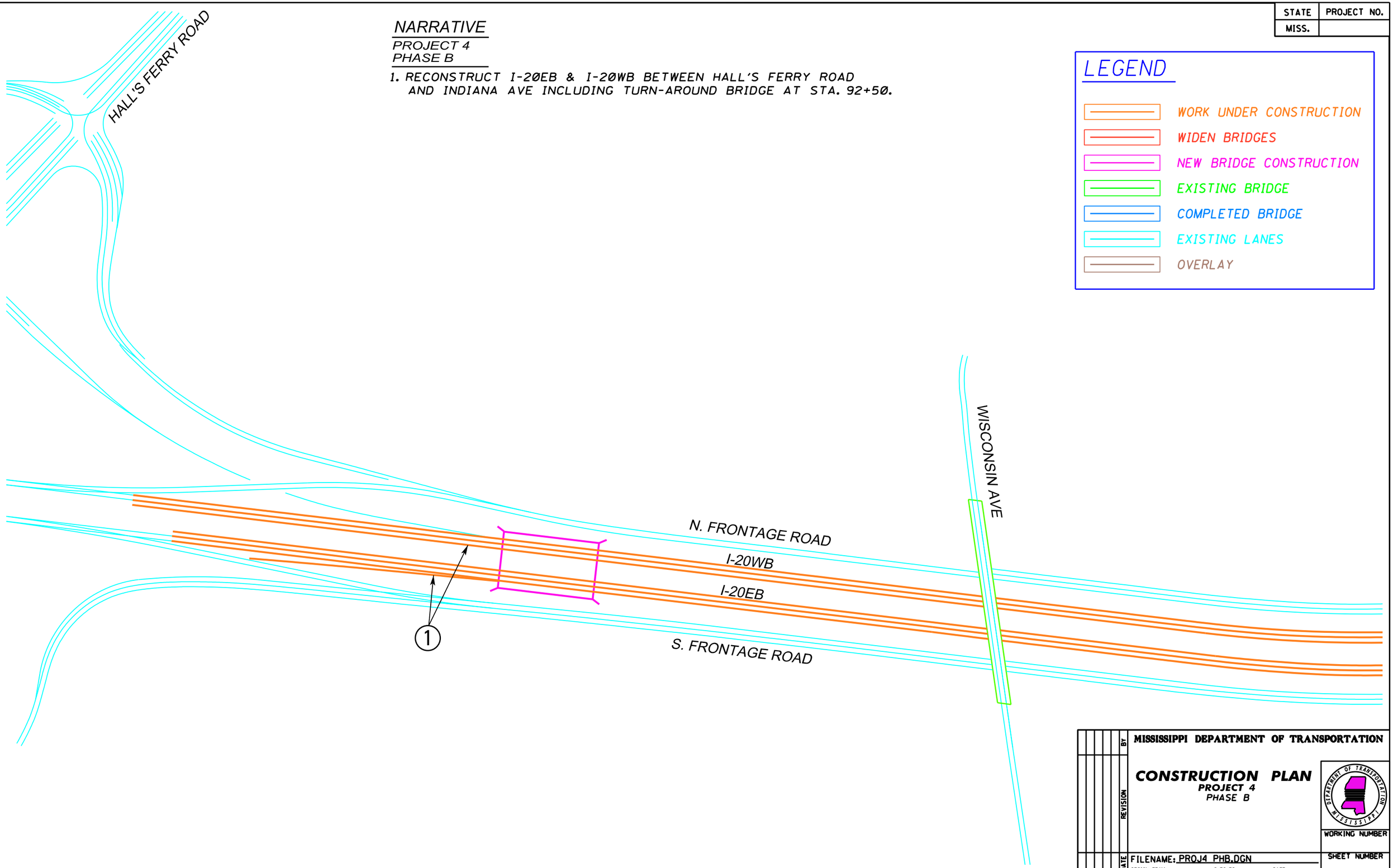
NARRATIVE

PROJECT 4
PHASE B

1. RECONSTRUCT I-20EB & I-20WB BETWEEN HALL'S FERRY ROAD AND INDIANA AVE INCLUDING TURN-AROUND BRIDGE AT STA. 92+50.

LEGEND

- WORK UNDER CONSTRUCTION
- WIDEN BRIDGES
- NEW BRIDGE CONSTRUCTION
- EXISTING BRIDGE
- COMPLETED BRIDGE
- EXISTING LANES
- OVERLAY



DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN
PROJECT 4
PHASE B

WORKING NUMBER

SHEET NUMBER

FILENAME: PROJ4 PHB.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

2/17/2011 14:19:54 PROJ4 PHB.DGN

STATE	PROJECT NO.
MISS.	

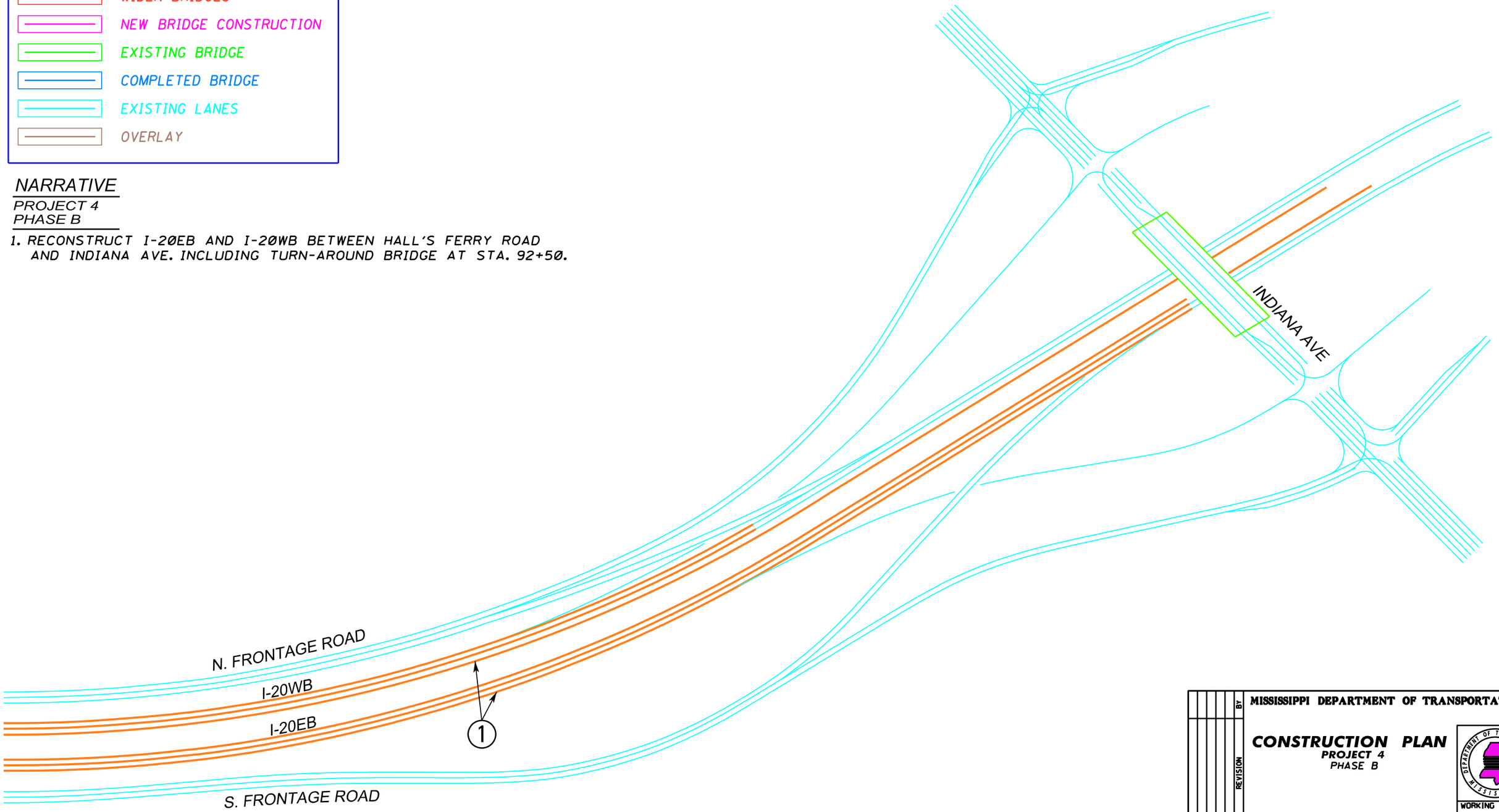
LEGEND

- WORK UNDER CONSTRUCTION
- WIDEN BRIDGES
- NEW BRIDGE CONSTRUCTION
- EXISTING BRIDGE
- COMPLETED BRIDGE
- EXISTING LANES
- OVERLAY

NARRATIVE

PROJECT 4
PHASE B

1. RECONSTRUCT I-20EB AND I-20WB BETWEEN HALL'S FERRY ROAD AND INDIANA AVE. INCLUDING TURN-AROUND BRIDGE AT STA. 92+50.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN
PROJECT 4
PHASE B

DATE	REVISION	BY

WORKING NUMBER

SHEET NUMBER

FILENAME: PROJ4 PHB.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

2/17/2011 14:28:56 PROJ4 PHB.DGN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

STATE	PROJECT NO.
MISS.	

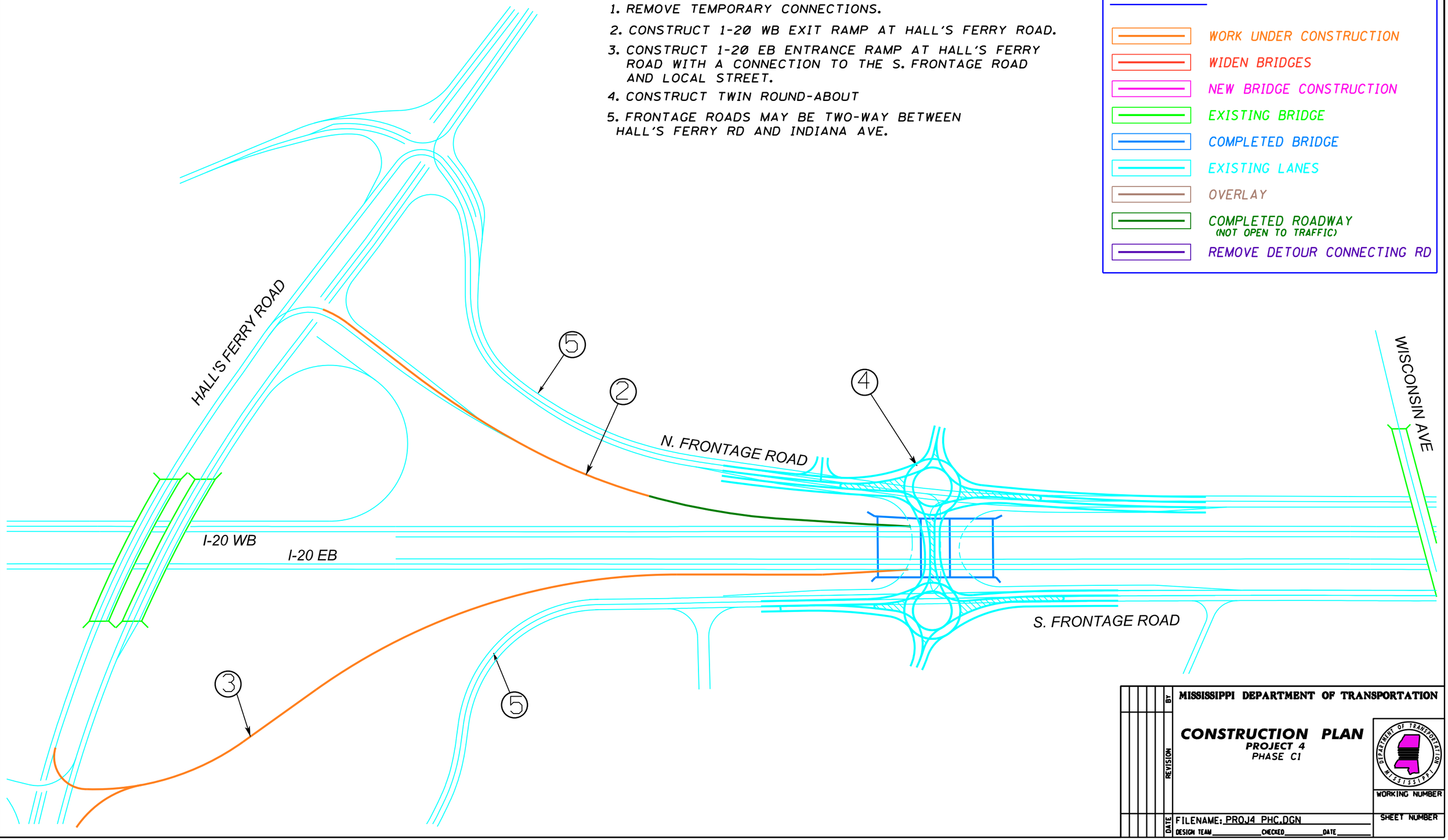
NARRATIVE

PROJECT 4
PHASE C2

1. REMOVE TEMPORARY CONNECTIONS.
2. CONSTRUCT 1-20 WB EXIT RAMP AT HALL'S FERRY ROAD.
3. CONSTRUCT 1-20 EB ENTRANCE RAMP AT HALL'S FERRY ROAD WITH A CONNECTION TO THE S. FRONTAGE ROAD AND LOCAL STREET.
4. CONSTRUCT TWIN ROUND-ABOUT
5. FRONTAGE ROADS MAY BE TWO-WAY BETWEEN HALL'S FERRY RD AND INDIANA AVE.

LEGEND

- WORK UNDER CONSTRUCTION
- WIDEN BRIDGES
- NEW BRIDGE CONSTRUCTION
- EXISTING BRIDGE
- COMPLETED BRIDGE
- EXISTING LANES
- OVERLAY
- COMPLETED ROADWAY (NOT OPEN TO TRAFFIC)
- REMOVE DETOUR CONNECTING RD



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN
PROJECT 4
PHASE C1

WORKING NUMBER

SHEET NUMBER

FILENAME: PROJ4 PHC.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

REVISION | BY | DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

2/17/2011 14:32:33 PROJ4 PHC.DGN

STATE	PROJECT NO.
MISS.	

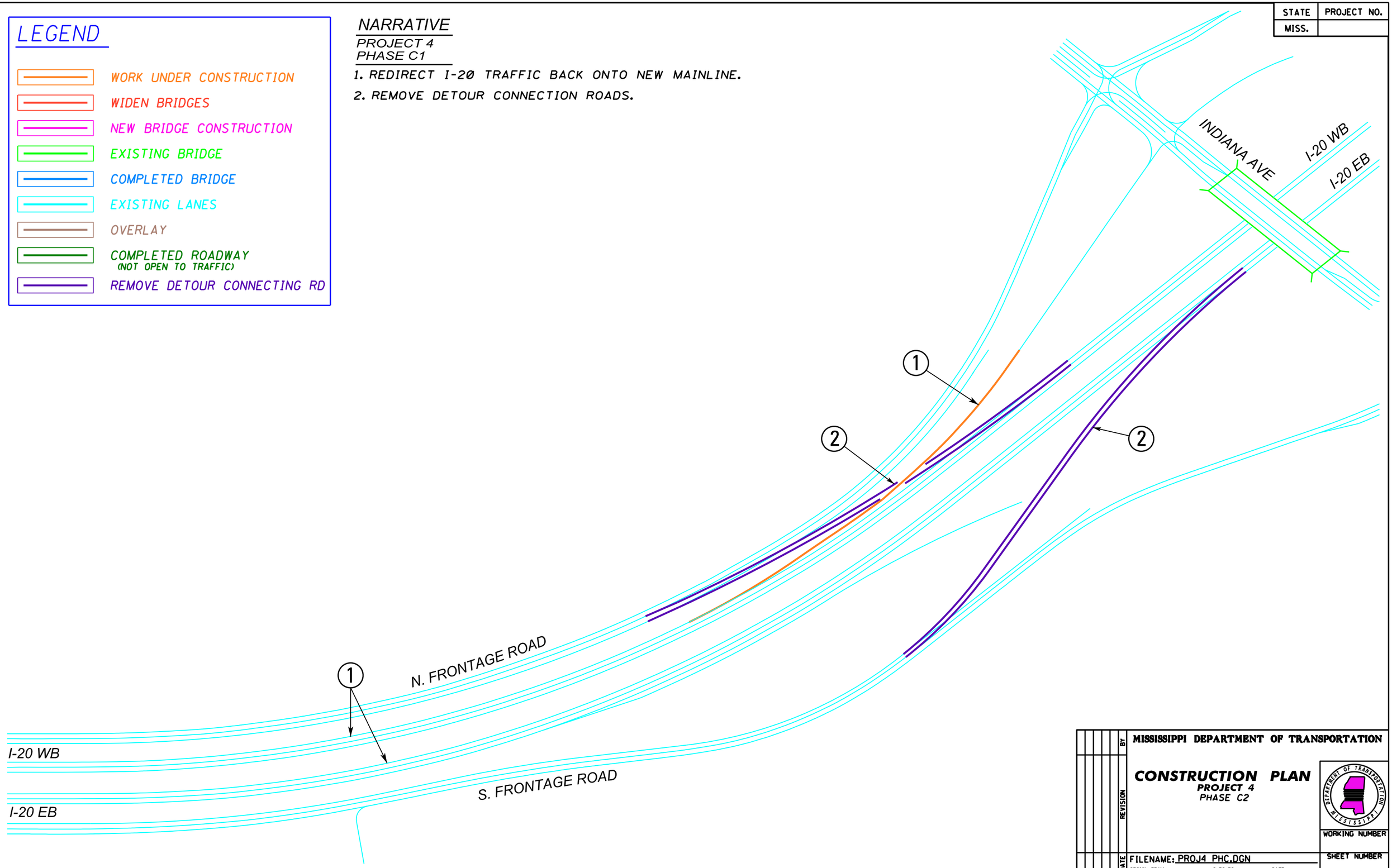
LEGEND

- WORK UNDER CONSTRUCTION
- WIDEN BRIDGES
- NEW BRIDGE CONSTRUCTION
- EXISTING BRIDGE
- COMPLETED BRIDGE
- EXISTING LANES
- OVERLAY
- COMPLETED ROADWAY (NOT OPEN TO TRAFFIC)
- REMOVE DETOUR CONNECTING RD

NARRATIVE

PROJECT 4
PHASE C1

1. REDIRECT I-20 TRAFFIC BACK ONTO NEW MAINLINE.
2. REMOVE DETOUR CONNECTION ROADS.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN
PROJECT 4
PHASE C2

WORKING NUMBER

SHEET NUMBER

DATE	REVISION	BY

FILENAME: PROJ4 PHC.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
2/17/2011 14:48:18 PROJ4 PHC.DGN

STATE	PROJECT NO.
MISS.	

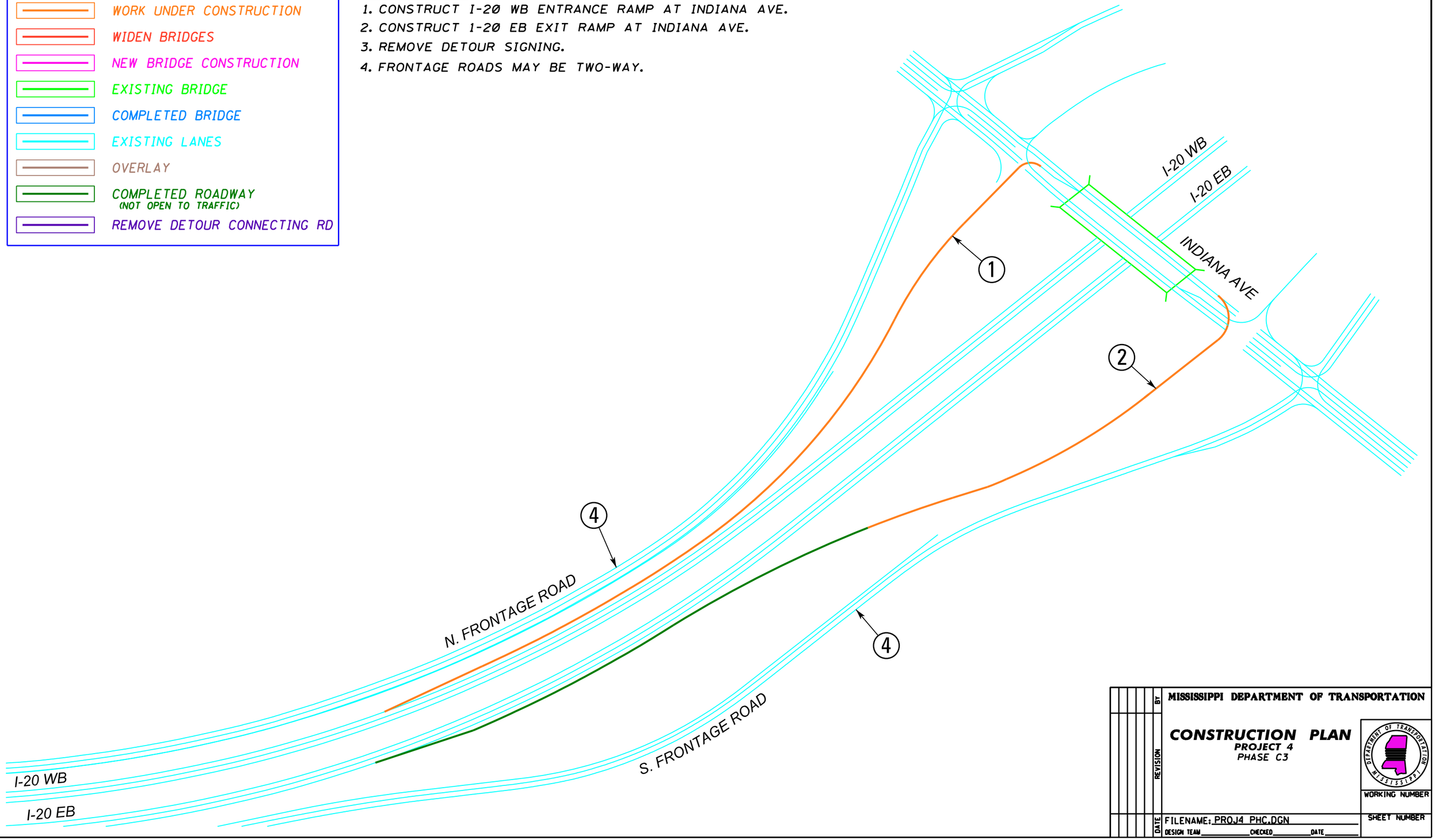
LEGEND

- WORK UNDER CONSTRUCTION
- WIDEN BRIDGES
- NEW BRIDGE CONSTRUCTION
- EXISTING BRIDGE
- COMPLETED BRIDGE
- EXISTING LANES
- OVERLAY
- COMPLETED ROADWAY (NOT OPEN TO TRAFFIC)
- REMOVE DETOUR CONNECTING RD

NARRATIVE

PROJECT 4
PHASE C3

1. CONSTRUCT I-20 WB ENTRANCE RAMP AT INDIANA AVE.
2. CONSTRUCT 1-20 EB EXIT RAMP AT INDIANA AVE.
3. REMOVE DETOUR SIGNING.
4. FRONTAGE ROADS MAY BE TWO-WAY.



DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN
PROJECT 4
PHASE C3

WORKING NUMBER

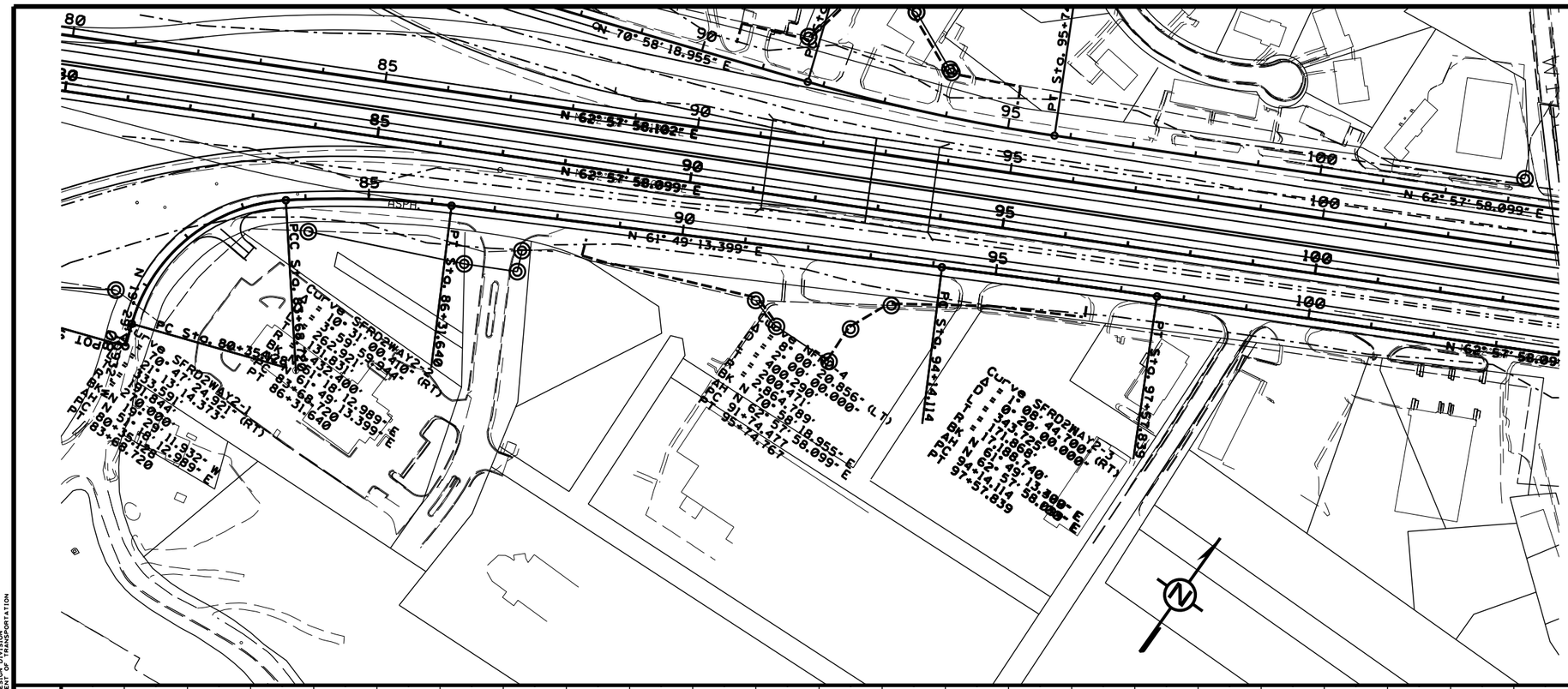
SHEET NUMBER

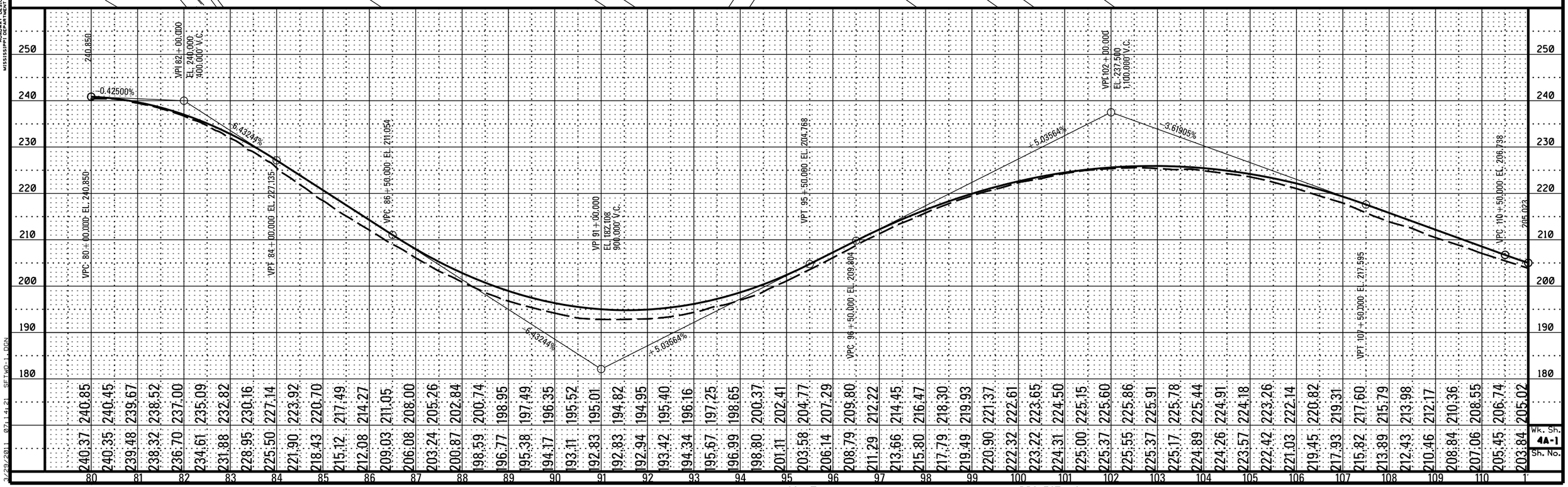
FILENAME: PROJ4 PHC.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

2/17/2011 14:48:44 PROJ4 PHC.DGN

STATE	PROJECT NO.
MISS.	

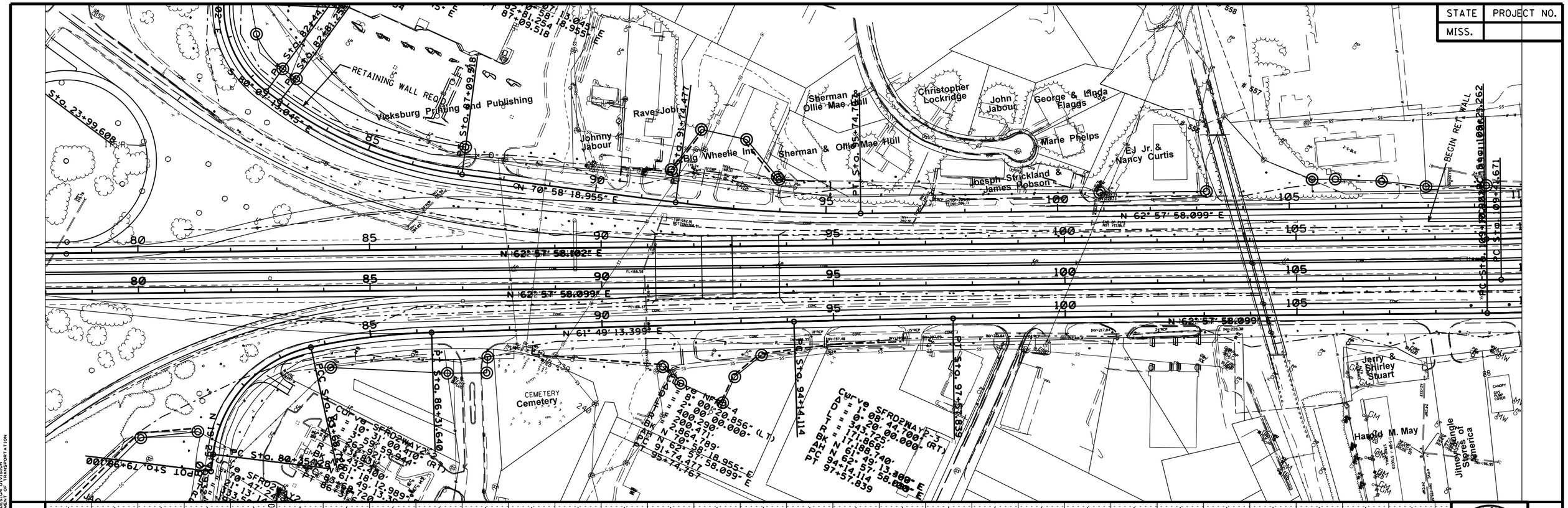


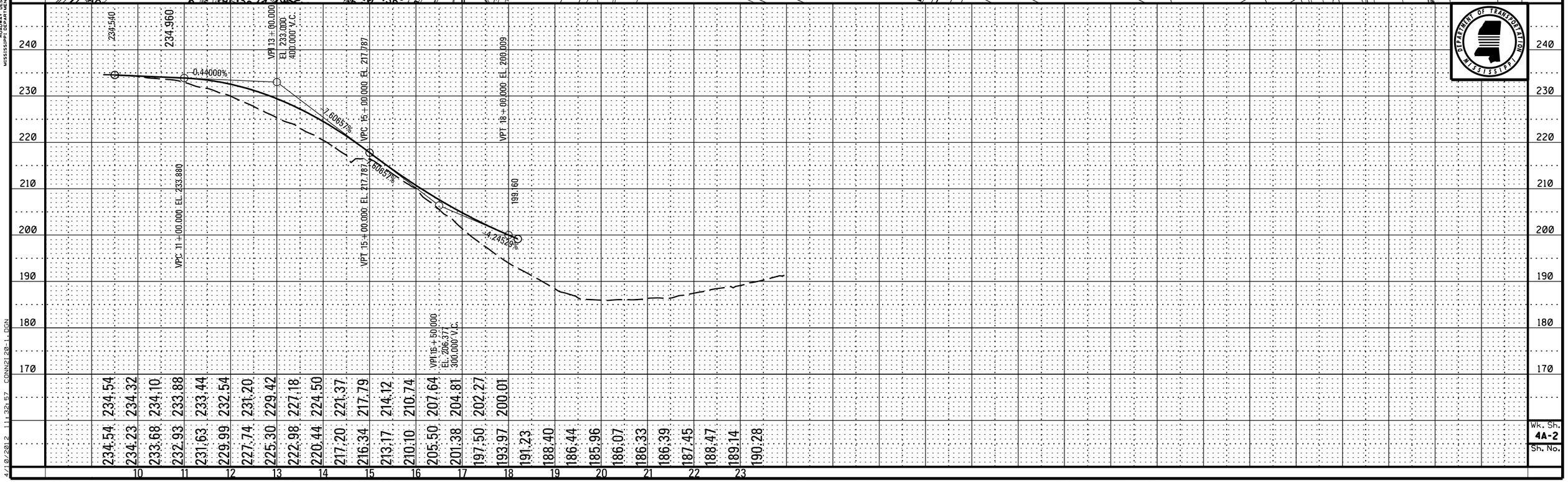


DESIGN TEAM: FILENAME: SFTWO-1.DGN COUNTY: PROJECT NO.: 4 PHASE A SHEET ID:

2/23/2011 07:14:21 SFTWO-1.DGN

STATE	PROJECT NO.
MISS.	

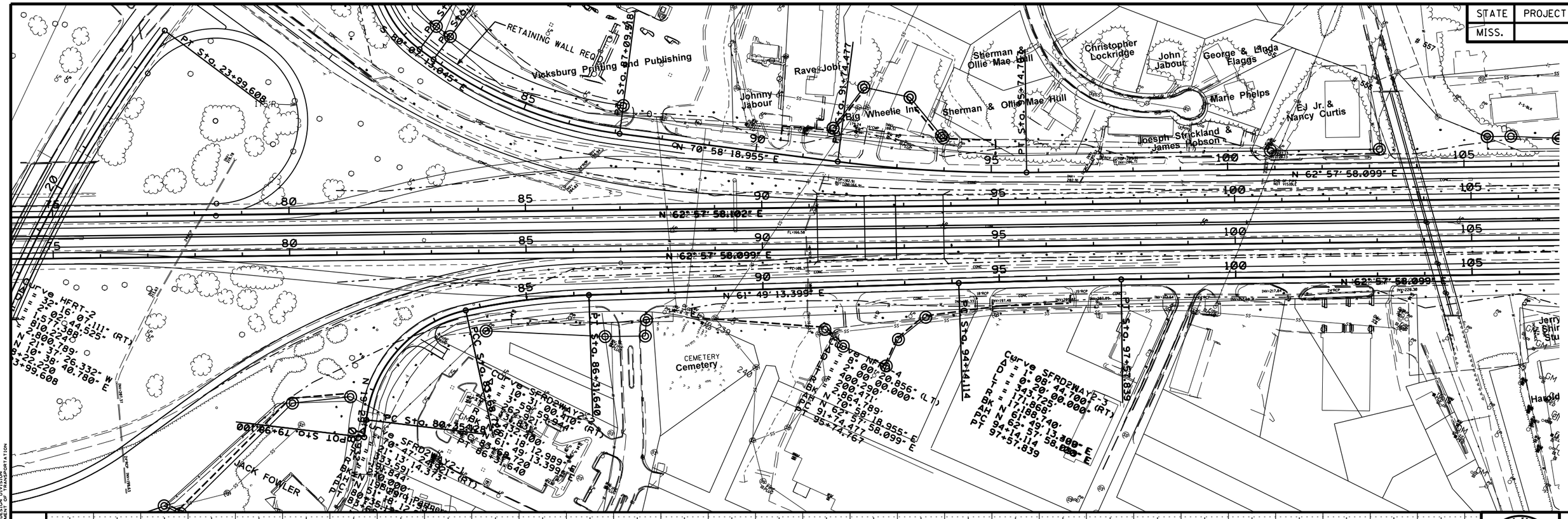


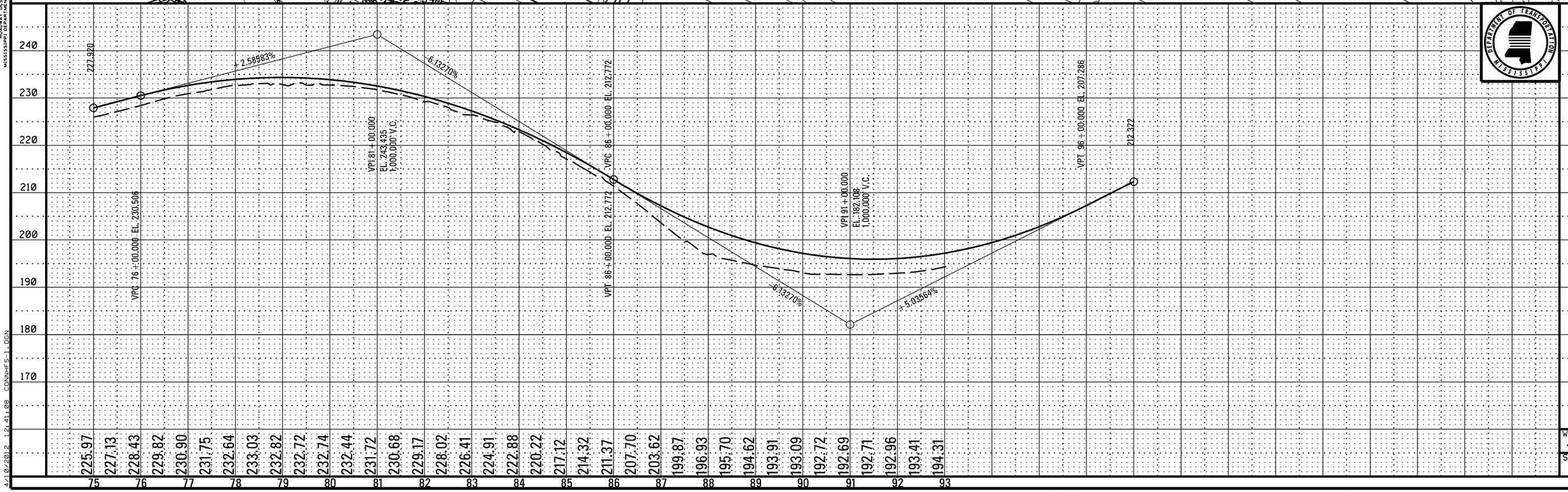


DESIGN TEAM: FILENAME: CONN2120-1.DGN COUNTY: PROJECT NO. : 4 PHASE A SHEET ID:

4/10/2012 11:32:57 CONN2120-1.DGN

STATE	PROJECT NO.
MISS.	





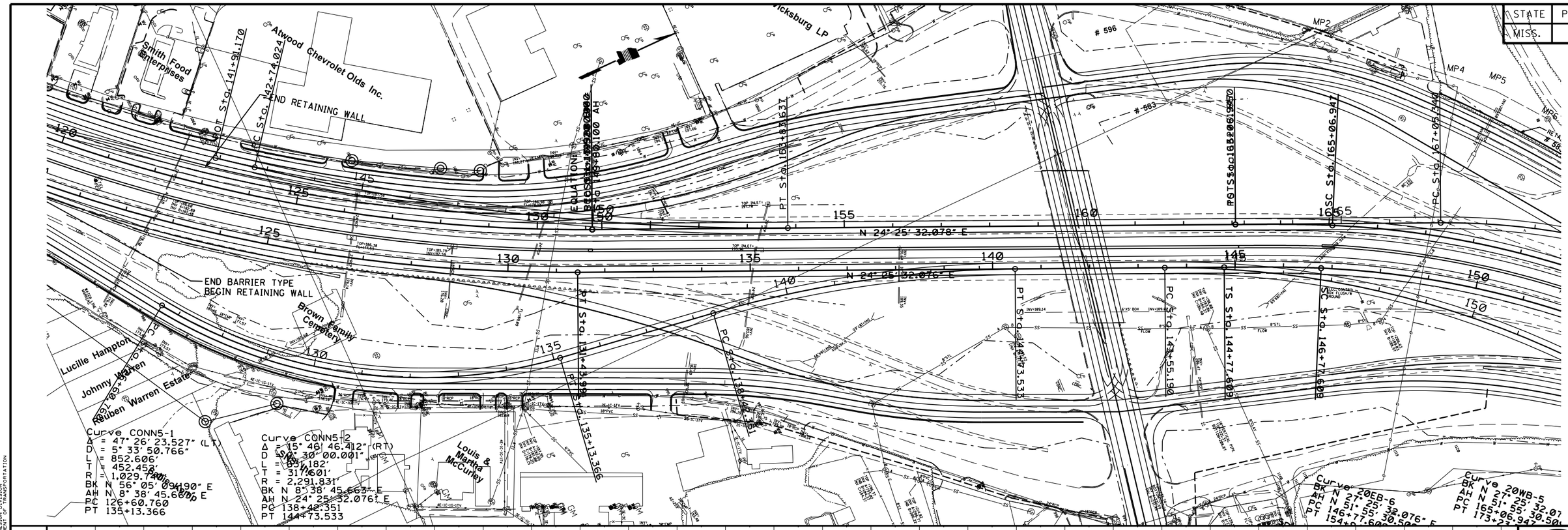
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

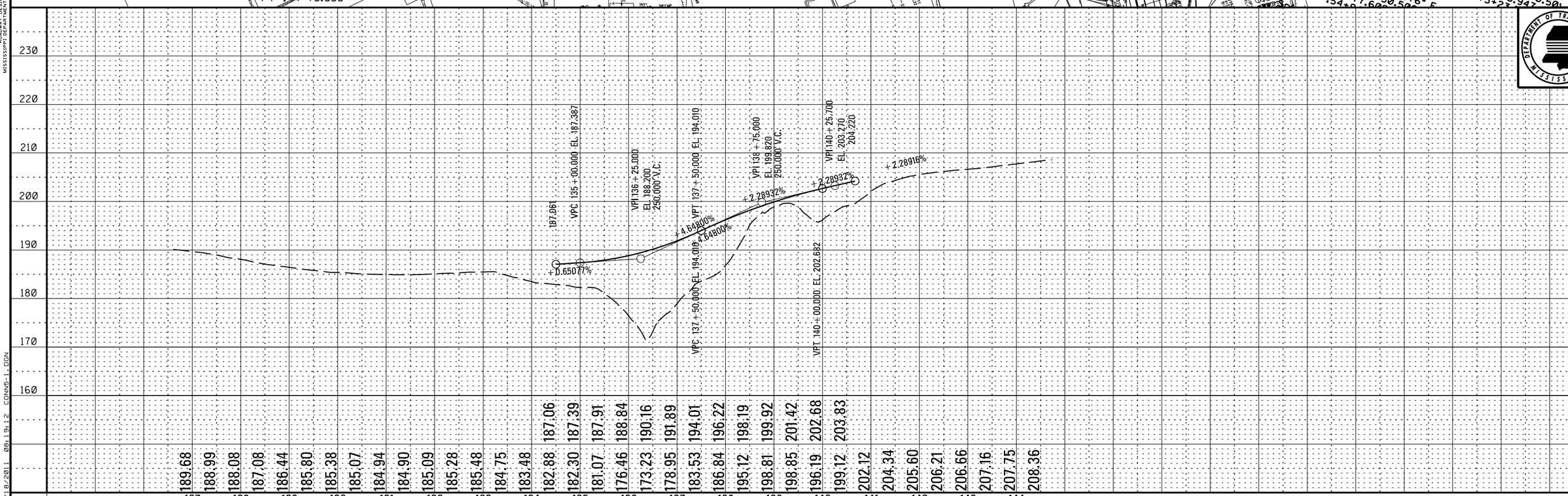
4/10/2012 12:41:08 CONNHFS-1.DGN

Wk. Sh. 4A-3
Sh. No.

DESIGN TEAM: FILENAME: CONNHFS-1.DGN COUNTY: PROJECT NO. : 4 PHASE A SHEET ID:

STATE	PROJECT NO.
MISS.	





Wk. Sh. 4A-4
Sh. No.

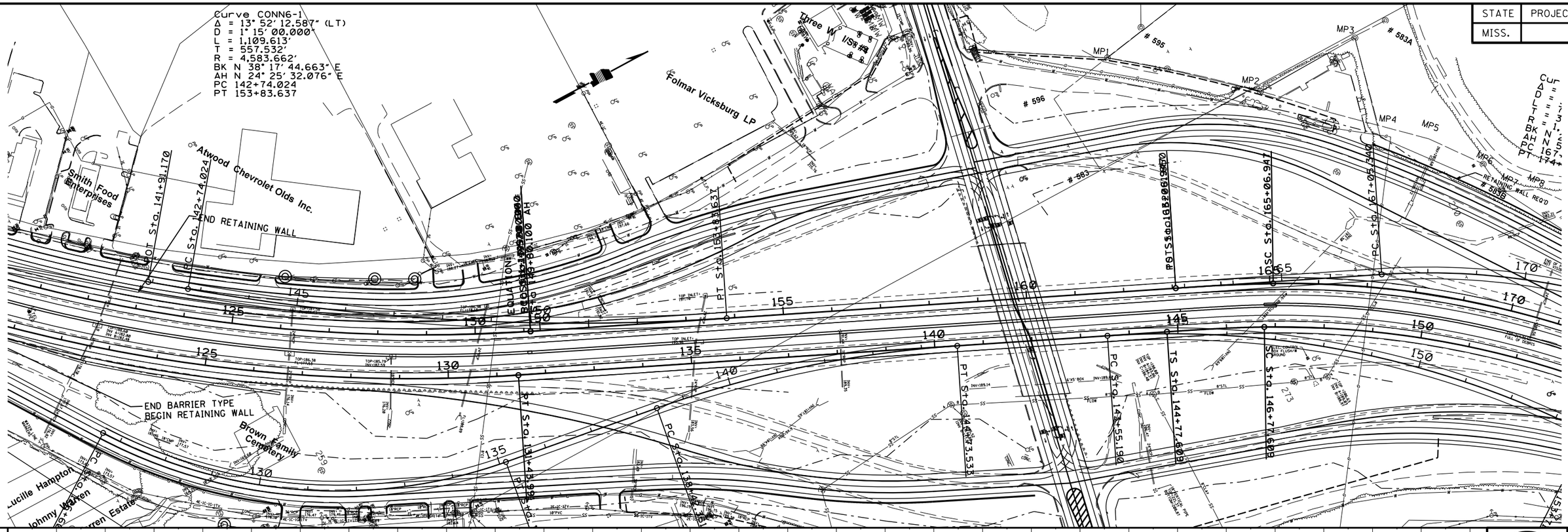
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

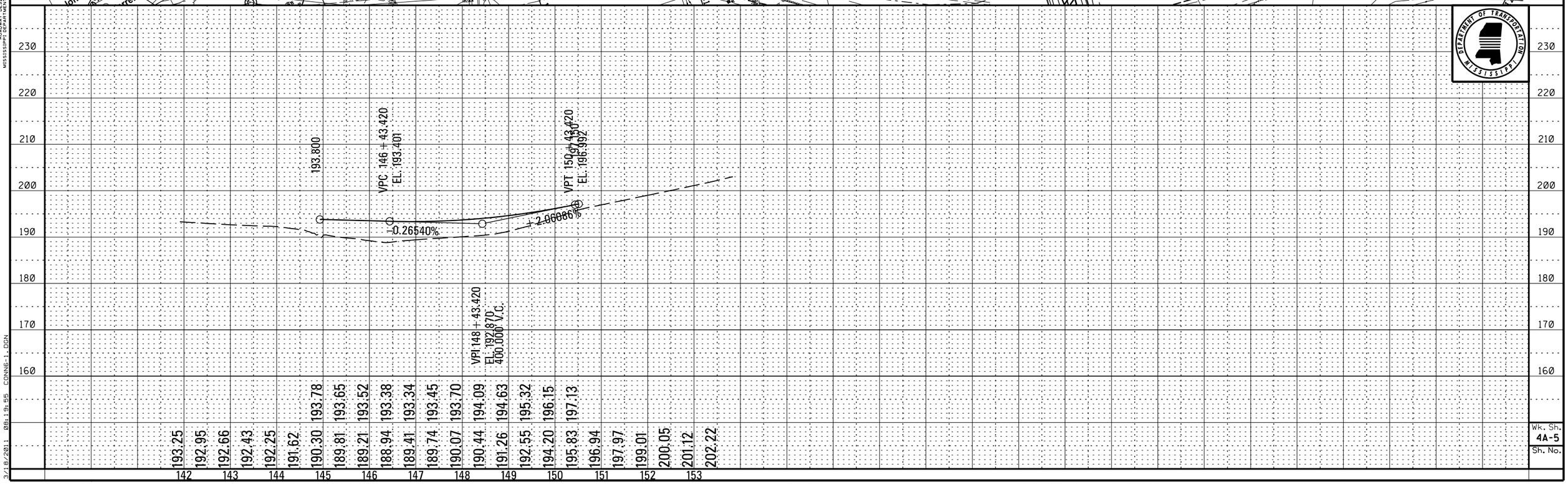
3/18/2011 08:19:12 CONN5-1.DGN

DESIGN TEAM: FILENAME: CONN5-1.DGN COUNTY: PROJECT NO. : 4 PHASE A SHEET ID:

STATE	PROJECT NO.
MISS.	

Curve CONN6-1
Δ = 13° 52' 12.587" (LT)
D = 1° 15' 00.000"
L = 1,109.613'
T = 557.532'
R = 4,583.662'
BK N 38° 17' 44.663" E
AH N 24° 25' 32.076" E
PC 142+74.024
PT 153+83.637





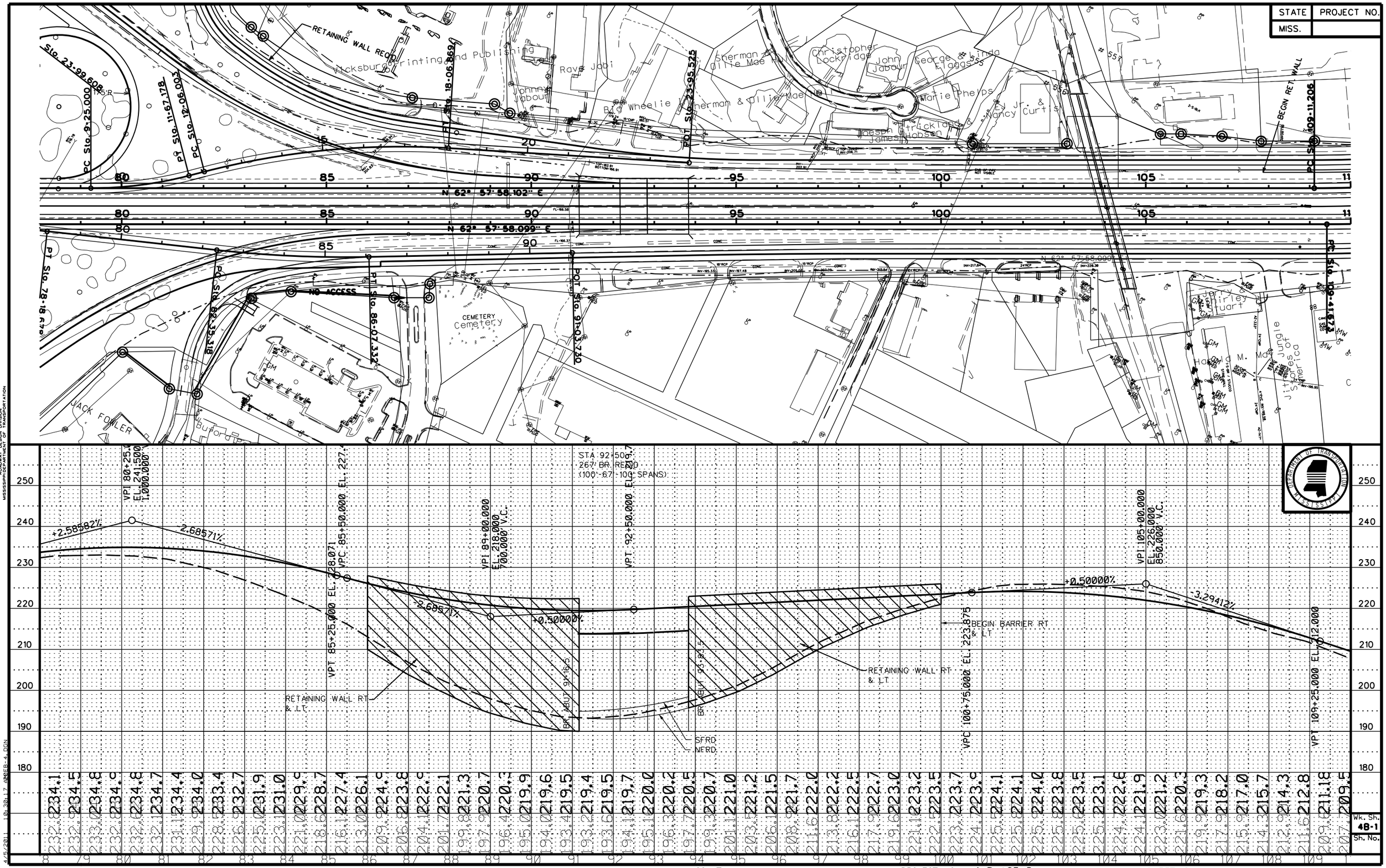
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

3/18/2011 08:19:55 CONN6-1.DGN

Wk. Sh. 4A-5
Sh. No.

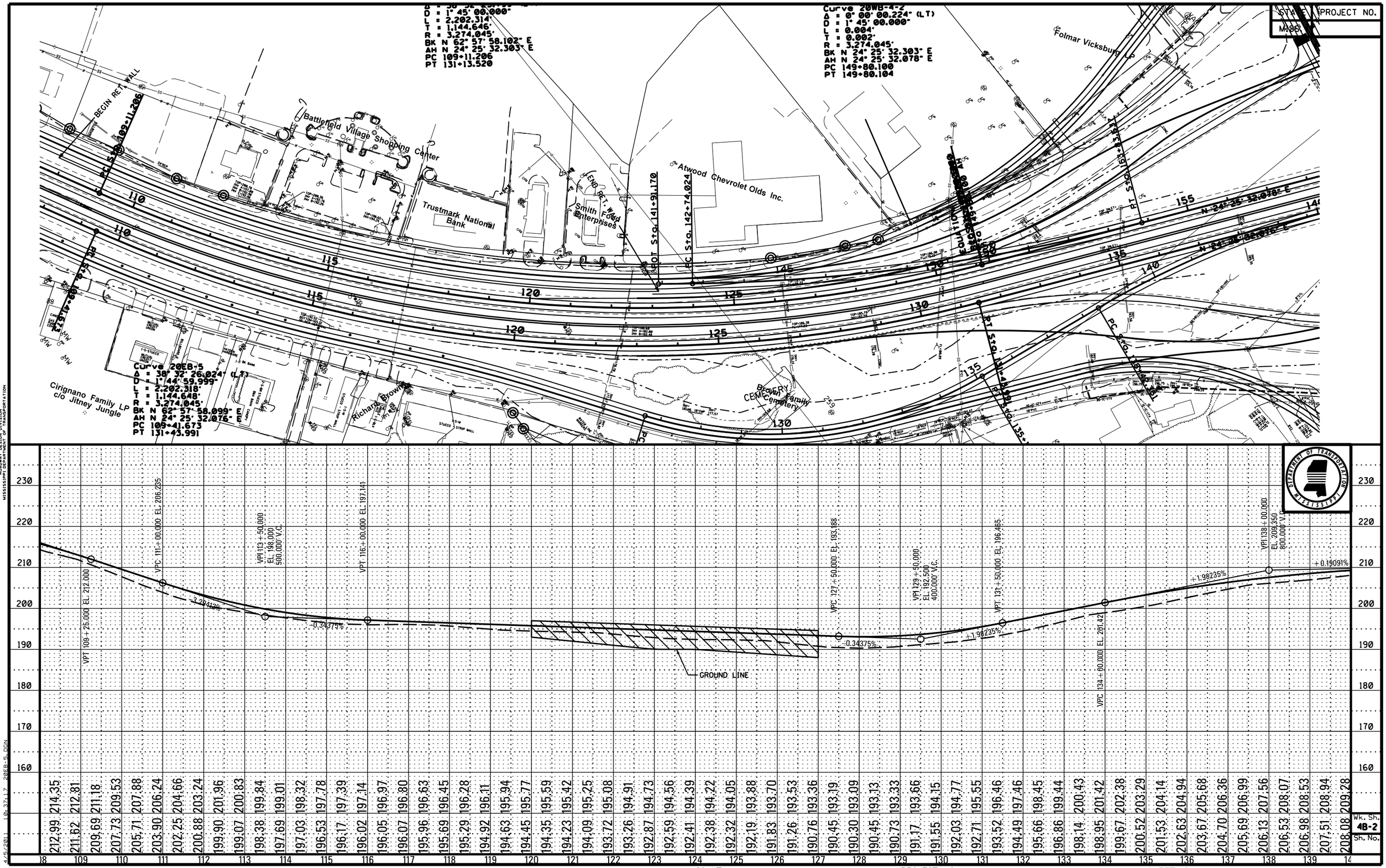
DESIGN TEAM: FILENAME: CONN6-1.DGN COUNTY: PROJECT NO. : 4 PHASE A SHEET ID:

STATE	PROJECT NO.
MISS.	



Wk. Sh. 48-1
Sh. No.

DESIGN TEAM: FILENAME: 20EB-4.DGN COUNTY: PROJECT NO.: 4 PHASE B SHEET ID:



DESIGN TEAM: FILENAME: 20EB-5.DGN COUNTY: PROJECT NO.: 4 PHASE B SHEET ID:

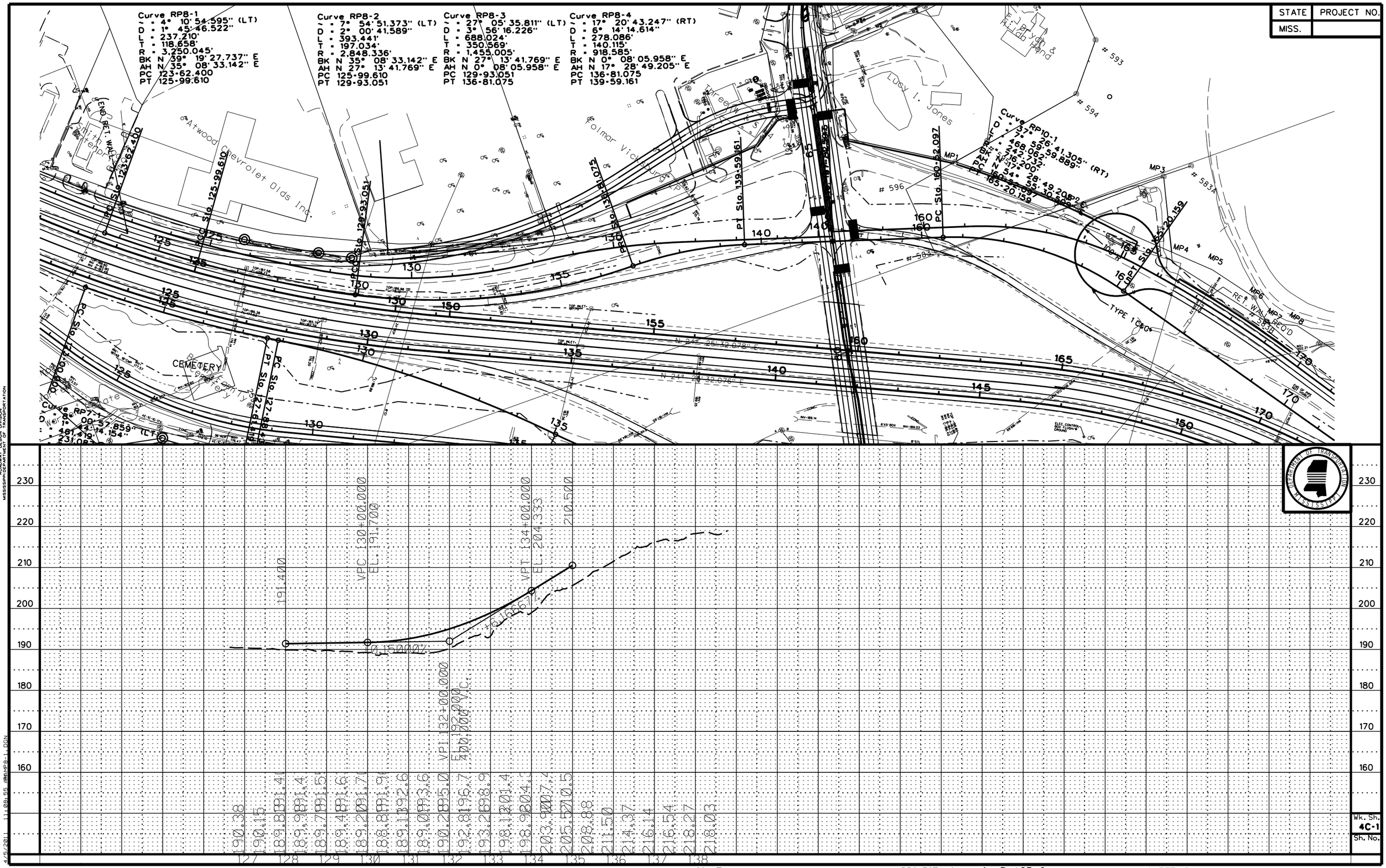
STATE	PROJECT NO.
MISS.	

Curve RP8-1
~ = 4° 10' 54.595" (LT)
D = 1° 45' 46.522"
L = 237.210'
T = 118.658'
R = 3,250.045'
BK N 39° 19' 27.737" E
AH N 35° 08' 33.142" E
PC 123+62.400
PT 125+99.610

Curve RP8-2
~ = 7° 54' 51.373" (LT)
D = 2° 00' 41.589"
L = 393.441'
T = 197.034'
R = 2,848.336'
BK N 35° 08' 33.142" E
AH N 27° 13' 41.769" E
PC 125+99.610
PT 129+93.051

Curve RP8-3
~ = 27° 05' 35.811" (LT)
D = 3° 56' 16.226"
L = 688.024'
T = 350.569'
R = 1,455.005'
BK N 27° 13' 41.769" E
AH N 0° 08' 05.958" E
PC 129+93.051
PT 136+81.075

Curve RP8-4
~ = 17° 20' 43.247" (RT)
D = 6° 14' 14.614"
L = 278.086'
T = 140.115'
R = 918.585'
BK N 0° 08' 05.958" E
AH N 17° 28' 49.205" E
PC 136+81.075
PT 139+59.161



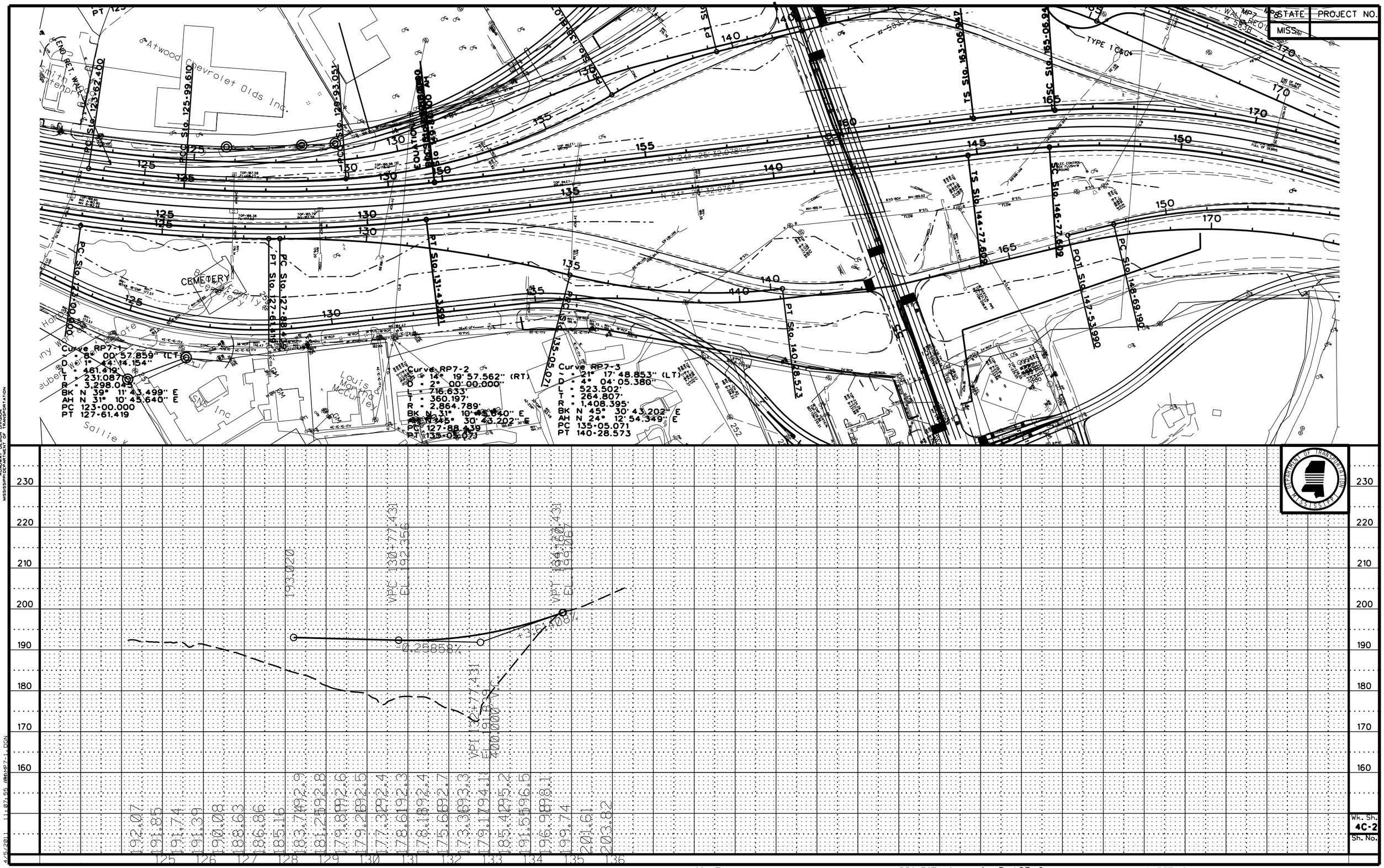
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

4/5/2011 11:08:55 AM RAMP8-1.DGN

Wk. Sh.
4C-1
Sh. No.

DESIGN TEAM: FILENAME: RAMP8-1.DGN COUNTY: PROJECT NO.: 4 PHASE C SHEET ID:

STATE	PROJECT NO.
MISS.	



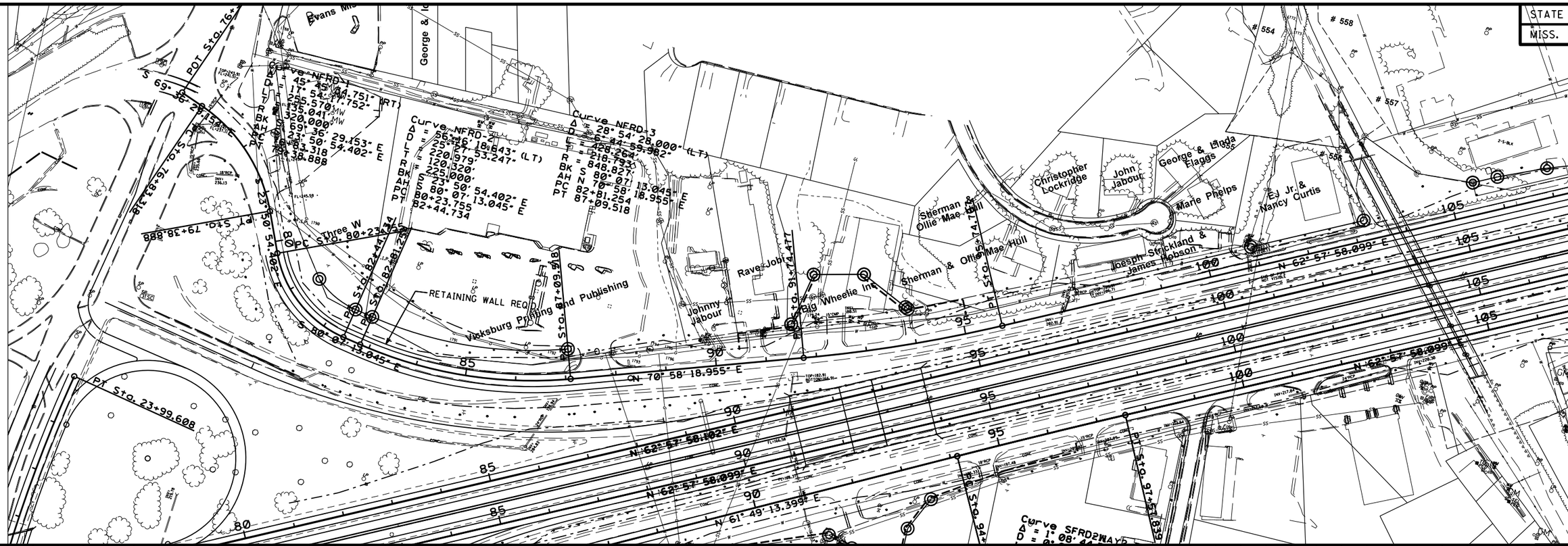
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

4/5/2011 11:07:55 RAMP7-1.DGN

Wk. Sh. 4C-2
Sh. No.

DESIGN TEAM: FILENAME: RAMP7-1.DGN COUNTY: PROJECT NO.: 4 PHASE C SHEET ID:

STATE	PROJECT NO.
MISS.	



PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

4/10/2012 1:31:71.2 RAMP6-1.DGN

Wk. Sh. 4C-3
Sh. No.

DESIGN TEAM: FILENAME: RAMP6-1.DGN COUNTY: PROJECT NO. : 4 PHASE C SHEET ID:

STATE	PROJECT NO.
MISS.	

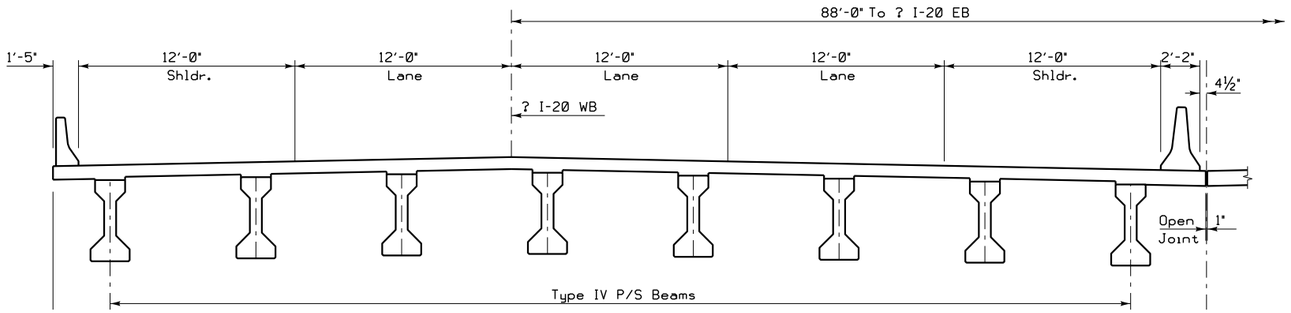
PLAN-PROFILE
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

4/25/2011 11:14:59 AM RAMP4-1.DGN

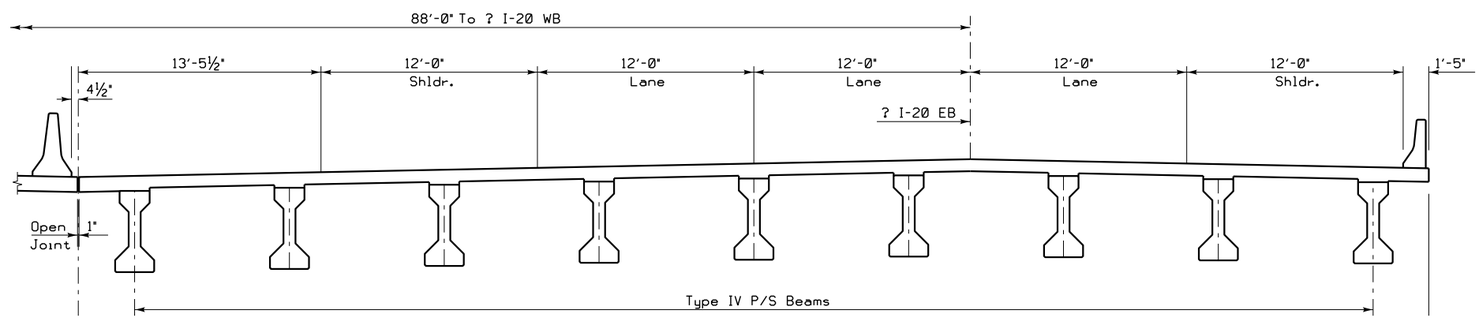
Wk. Sh. 4C-4
Sh. No.

DESIGN TEAM: FILENAME: RAMP4-1.DGN COUNTY: PROJECT NO.: 4 PHASE C SHEET ID:

STATE	PROJECT NO.
MISS.	



I-20 WESTBOUND OVER WEST TURNAROUND



I-20 EASTBOUND OVER WEST TURNAROUND

FILE: $FILE$
DATE: $DATE$
TIME: $TIME$
USER: $USER$

NEEL-SCHAFFER
Solutions you can build upon

PRELIMINARY
NOT FOR
CONSTRUCTION
DATE: _____

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
I-20 VICKSBURG

I-20 EB & WB OVER WEST TURNAROUND

DESIGNED _____ DETAILED _____ TRACED CADD
CHECKED _____ ISSUED _____ DATE _____

WORKING NUMBER
BTS4-1
SHEET NUMBER

Construction Cost Estimate

Revised 2008 Form (Revised: 05/14/2008)
(Based on data from 03/20/2008 update)

Date: 07/01/2009

Check one:
- [x] Preliminary
- [ ] After Draft Environmental Document
- [ ] Prior to Field Review

Project Numbers:

	FMS	External
PE:	x	x
ROW:	x	x
Construction:	x	x

Route/Termini: I-20 @ Vicksburg (PROJECT 4 PHASE A) (4 TEMP. CONNS. BETWEEN I-20 & FR. RDS.)

County: WARREN

Lettingday: 06/30/2023

Scope of Work:

Rural/Urban: Urban

Rolling/Flat:

Grading:

Paving:

Length in Miles: 0.95

Grading Cost Per Mile: $900,000

Paving Cost Per Mile: $2,690,000 **(From 2009 cost data from Planning Division)**

Interchanges affected? 0 (If greater than 0, fill in data on Interchange Sheet)

Construction Cost Estimate:

Grading Cost:	0.95	x	$900,000	x	115%	$983,250
Paving Cost:	0.95		$2,690,000	x	115%	$2,938,825
Bridge cost:	0	x	$0.00	x	115%	$0
Double Cell Box Culvert/Bridge Cost:	0		$0	x	115%	$0
Interchange Cost:			$0	x	115%	$0
Interchange Lighting Cost:			$0	x	115%	$0
Additional Cost Per Mile: (See note #1 below)		x		x	115%	$0
Additional Cost: (See note #2 below)		x		x	115%	$0
					Total Estimate:	**$3,922,075**

Note #1 - Reasons for additional cost per mile:

Note #2 - Reasons for additional cost:

Anticipating a 3% inflation factor per year, the estimated construction cost is $5,900,000
(Includes Engineering and contingencies)

Remarks:

Est. Equivalency to Major Widening for Interstate Detour for extended time and extensive traffic control.

Prepared By: Aubrey Kopf — **Signature**

Senior Certified Engineering Technician — **Title**

T:\HWY\AK\I20 VICKS-ACCT 6562\EACOSTESTIMATE\I-20 ALT B & C PROJECT 4 PHASE A (CONNS.)

Construction Cost Estimate

Revised 2008 Form (Revised: 05/14/2008)
(Based on data from 03/20/2008 update)

Date: 07/01/2009

Check one:
- [x] Preliminary
- [ ] After Draft Environmental Document
- [ ] Prior to Field Review

Project Numbers:

	FMS	External
PE:	x	x
ROW:	x	x
Construction:	x	x

Route/Termini: I-20 @ Vicksburg (PROJECT 4 PHASE B) (I-20 M.L. STA 80+00 TO 133+00)

County: WARREN

Lettingday: 06/30/2023

Scope of Work:

Rural/Urban: Urban

Rolling/Flat:

Grading:

Paving:

Length in Miles: 0.95

Grading Cost Per Mile: $1,910,000

Paving Cost Per Mile: $3,470,000 **(From 2009 cost data from Planning Division)**

Interchanges affected? 0 (If greater than 0, fill in data on Interchange Sheet)

Construction Cost Estimate:

Grading Cost:	0.95	x	$1,910,000	x	115%	$2,086,675
Paving Cost:	0.95		$3,470,000	x	115%	$3,790,975
Bridge cost:	38,456	x	$85.00	x	115%	$3,759,074
Double Cell Box Culvert/Bridge Cost:	0		$0	x	115%	$0
Interchange Cost:			$0	x	115%	$0
Interchange Lighting Cost:			$0	x	115%	$0
Additional Cost Per Mile: (See note #1 below)		x		x	115%	$0
Additional Cost: (See note #2 below)	1.00	x	$3,667,000.00	x	115%	$4,217,050
					Total Estimate:	**$13,853,774**

Note #1 - Reasons for additional cost per mile:

Note #2 - Reasons for additional cost:

2 Retaining Walls: Between I-20 & Both FR. RDS (86+00 to 100+00) & Rt of I-20 EB (120+00 to 127+00)

Anticipating a 3% inflation factor per year, the estimated construction cost is $20,800,000
(Includes Engineering and contingencies)

Remarks:

Prepared By: Aubrey Kopf — **Signature**

Senior Certified Engineering Technician — **Title**

T:\HWY\AK\I20 VICKS-ACCT 6562\EACOSTESTIMATE\I-20 ALT B & C PROJECT 4 PHASE B (MAINLINE 80+00 TO 133+00)

Construction Cost Estimate

Revised 2008 Form (Revised: 05/14/2008)
(Based on data from 03/20/2008 update)

Date: 07/01/2009

Check one:
- [x] Preliminary
- [ ] After Draft Environmental Document
- [ ] Prior to Field Review

Project Numbers:

	FMS	External
PE:	x	x
ROW:	x	x
Construction:	x	x

Route/Termini: I-20 @ Vicksburg (PROJECT 4 PHASE C) (RAMPS 4,6,7,&8)

County: WARREN

Lettingday: 06/30/2023

Scope of Work:

Rural/Urban: Rural

Rolling/Flat:

Grading:

Paving:

Length in Miles: 0.10

Grading Cost Per Mile: $530,000

Paving Cost Per Mile: $490,000 **(From 2009 cost data from Planning Division)**

Interchanges affected? 0 (If greater than 0, fill in data on Interchange Sheet)

Construction Cost Estimate:

Grading Cost:	0.10	x	$530,000	x	115%	$60,950
Paving Cost:	0.10		$490,000	x	115%	$56,350
Bridge cost:	0	x	$0.00	x	115%	$0
Double Cell Box Culvert/Bridge Cost:	0		$0	x	115%	$0
Interchange Cost:			$2,930,000	x	115%	$3,369,500
Interchange Lighting Cost:			$380,000	x	115%	$437,000
Additional Cost Per Mile: (See note #1 below)		x		x	115%	$0
Additional Cost: (See note #2 below)		x		x	115%	$0
					Total Estimate:	**$3,923,800**

Note #1 - Reasons for additional cost per mile:

Note #2 - Reasons for additional cost:

Anticipating a 3% inflation factor per year, the estimated construction cost is $5,900,000
(Includes Engineering and contingencies)

Remarks:

Est. as 1/2 Diamond for 4 interchange ramps. Include lighting for 1 Diamond Interchange.

Prepared By: Aubrey Kopf — **Signature**; Senior Certified Engineering Technician — **Title**

T:\HWY\AK\I20 VICKS-ACCT 6562\EACOSTESTIMATE\I-20 ALT B & C PROJECT 4 PHASE C (RAMPS 4,6,7,8)

Construction Cost Estimate

Revised 2008 Form (Revised: 05/14/2008)
(Based on data from 03/20/2008 update)

Date: 07/01/2009

Check one:
- [x] Preliminary
- [ ] After Draft Environmental Document
- [ ] Prior to Field Review

Project Numbers:

	FMS	External
PE:	x	x
ROW:	x	x
Construction:	x	x

Route/Termini: I-20 @ Vicksburg (Roundabout @ 92+50)

County: WARREN

Lettingday: 06/30/2020

Scope of Work:

Rural/Urban: Urban

Rolling/Flat:

Grading:

Paving:

Length in Miles: 0.50

Grading Cost Per Mile: $1,450,000

Paving Cost Per Mile: $2,210,000 **(From 2009 cost data from Planning Division)**

Interchanges affected? 0 (If greater than 0, fill in data on Interchange Sheet)

Construction Cost Estimate:

Grading Cost:	0.50	x	$1,450,000	x	115%	$833,750
Paving Cost:	0.50		$2,210,000	x	115%	$1,270,750
Bridge cost:	0	x	$0.00	x	115%	$0
Double Cell Box Culvert/Bridge Cost:	0		$0	x	115%	$0
Interchange Cost:			$0	x	115%	$0
Interchange Lighting Cost:			$0	x	115%	$0
Additional Cost Per Mile: (See note #1 below)		x		x	115%	$0
Additional Cost: (See note #2 below)	0.00	x		x	115%	$0
					Total Estimate:	**$2,104,500**

Note #1 - Reasons for additional cost per mile:

Note #2 - Reasons for additional cost:

Anticipating a 4% inflation factor per year, the estimated construction cost is $3,200,000
(Includes Engineering and contingencies)

Remarks:

Prepared By: Aubrey Kopf — **Signature**

Senior Certified Engineering Technician — **Title**

T:\HWY\AK\I20 VICKS-ACCT 6562\EACOSTESTIMATE\ALTERNATE C\I-20 ALT C PROJECT 4 PHASE B (ROUNDABOUT)

Construction Cost Estimate

Revised 2008 Form (Revised: 05/14/2008)
(Based on data from 03/20/2008 update)

Date: 07/01/2009

Check one:
- [x] Preliminary
- [ ] After Draft Environmental Document
- [ ] Prior to Field Review

Project Numbers:

	FMS	External
PE:	x	x
ROW:	x	x
Construction:	x	x

Route/Termini: I-20 @ Vicksburg (PROJECT 4 MISC.)

County: WARREN

Lettingday: 06/30/2023

Scope of Work:

Rural/Urban: Rural

Rolling/Flat:

Grading:

Paving:

Length in Miles: 0.00

Grading Cost Per Mile: $0

Paving Cost Per Mile: $0 **(From 2009 cost data from Planning Division)**

Interchanges affected? 0 (If greater than 0, fill in data on Interchange Sheet)

Construction Cost Estimate:

Grading Cost:	0.00	x	$0	x	115%	$0
Paving Cost:	0.00		$0	x	115%	$0
Bridge cost:	0	x	$0.00	x	115%	$0
Double Cell Box Culvert/Bridge Cost:	0		$0	x	115%	$0
Interchange Cost:			$0	x	115%	$0
Interchange Lighting Cost:			$0	x	115%	$0
Additional Cost Per Mile: (See note #1 below)		x		x	115%	$0
Additional Cost: (See note #2 below)	1.00	x	$1,586,593.00	x	115%	$1,824,582
					Total Estimate:	**$1,824,582**

Note #1 - Reasons for additional cost per mile:

Note #2 - Reasons for additional cost:

.Lighting -0.5($380,000) + 0.5($380,000) = $380,000: Signals -(5)@$150,000 = $750,000: Signing- (2%) of $22,829,649=$456,593: Total Misc.=$1,586,593

Anticipating a 3% inflation factor per year, the estimated construction cost is $2,700,000
(Includes Engineering and contingencies)

Remarks:

Prepared By: Aubrey Kopf — **Signature**

Senior Certified Engineering Technician — **Title**

T:\HWY\AK\I20 VICKS-ACCT 6562\EACOSTESTIMATE\I-20 ALT B & C PROJECT 4 MISC