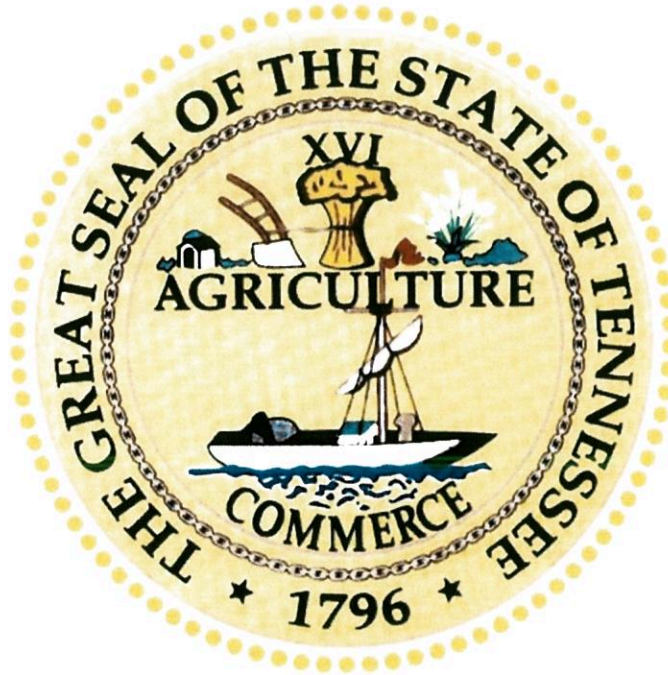


TENNESSEE
DEPARTMENT OF TRANSPORTATION


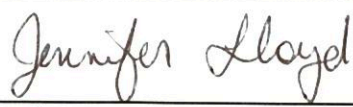



TRANSPORTATION INVESTMENT REPORT
Special Bridge Replacement Program
STATE ROUTE 92
Bridge over Muddy Creek (Log Mile 3.12)
Jefferson County
PIN 119812.00

PREPARED BY THE CORRADINO GROUP
for the
Strategic Transportation Investments Division

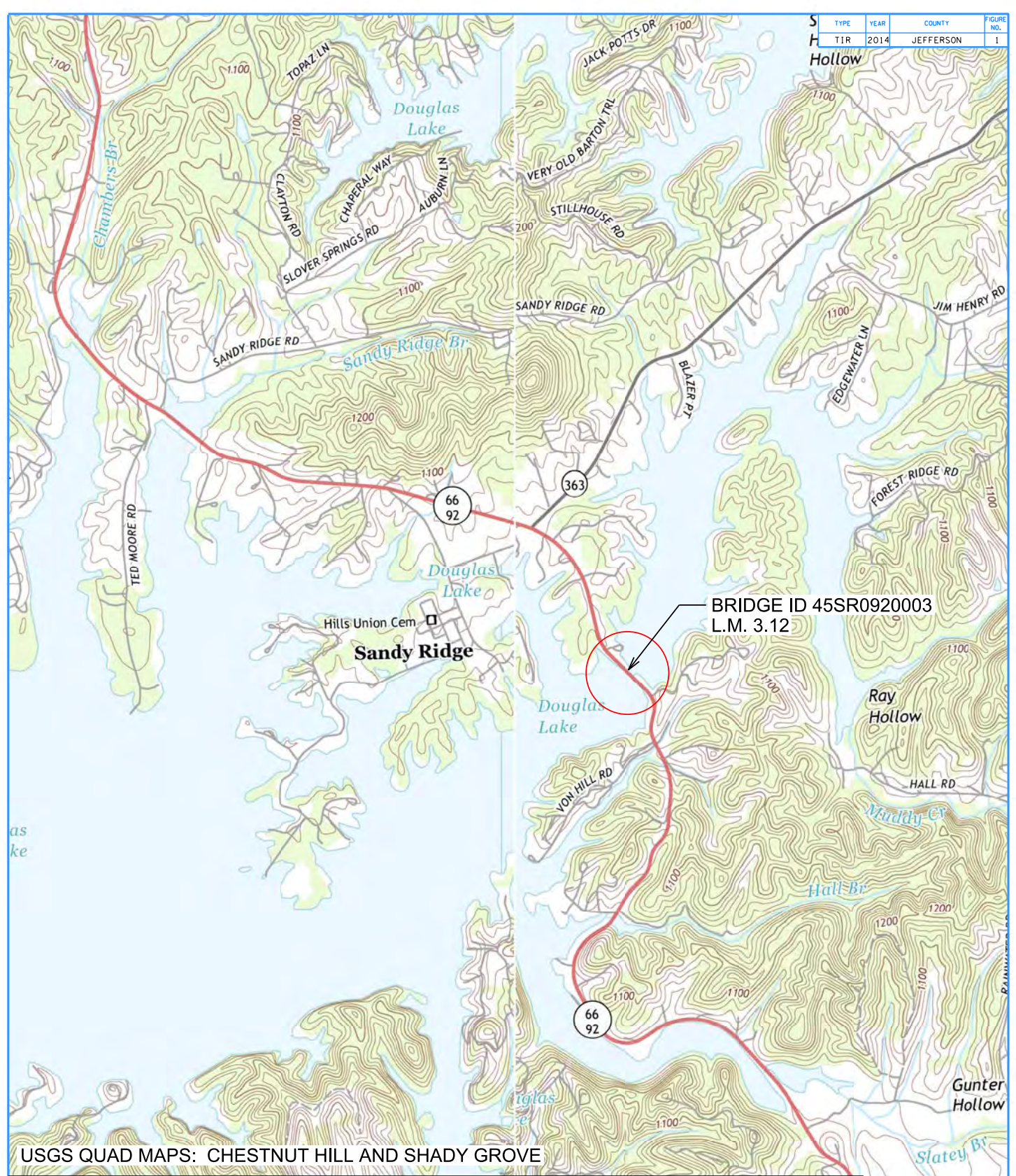
Approved by  Date 9.3.14
Chief of Environment and Planning

Approved by  Date 9/12/14
Deputy Commissioner and Chief Engineer

Approved by:	Signature	DATE
TRANSPORTATION DIRECTOR STRATEGIC TRANSPORTATION INVESTMENTS DIVISION		8-14-14
ENGINEERING DIRECTOR DESIGN DIVISION		8-22-14
ENGINEERING DIRECTOR STRUCTURES DIVISION		9-2-14

This document is covered by 23 USC § 409 and its production pursuant to fulfilling public planning requirements does not waive the provisions of § 409.

S	TYPE	YEAR	COUNTY	FIGURE NO.
H	TIR	2014	JEFFERSON	1



BRIDGE ID 45SR0920003
L.M. 3.12

USGS QUAD MAPS: CHESTNUT HILL AND SHADY GROVE



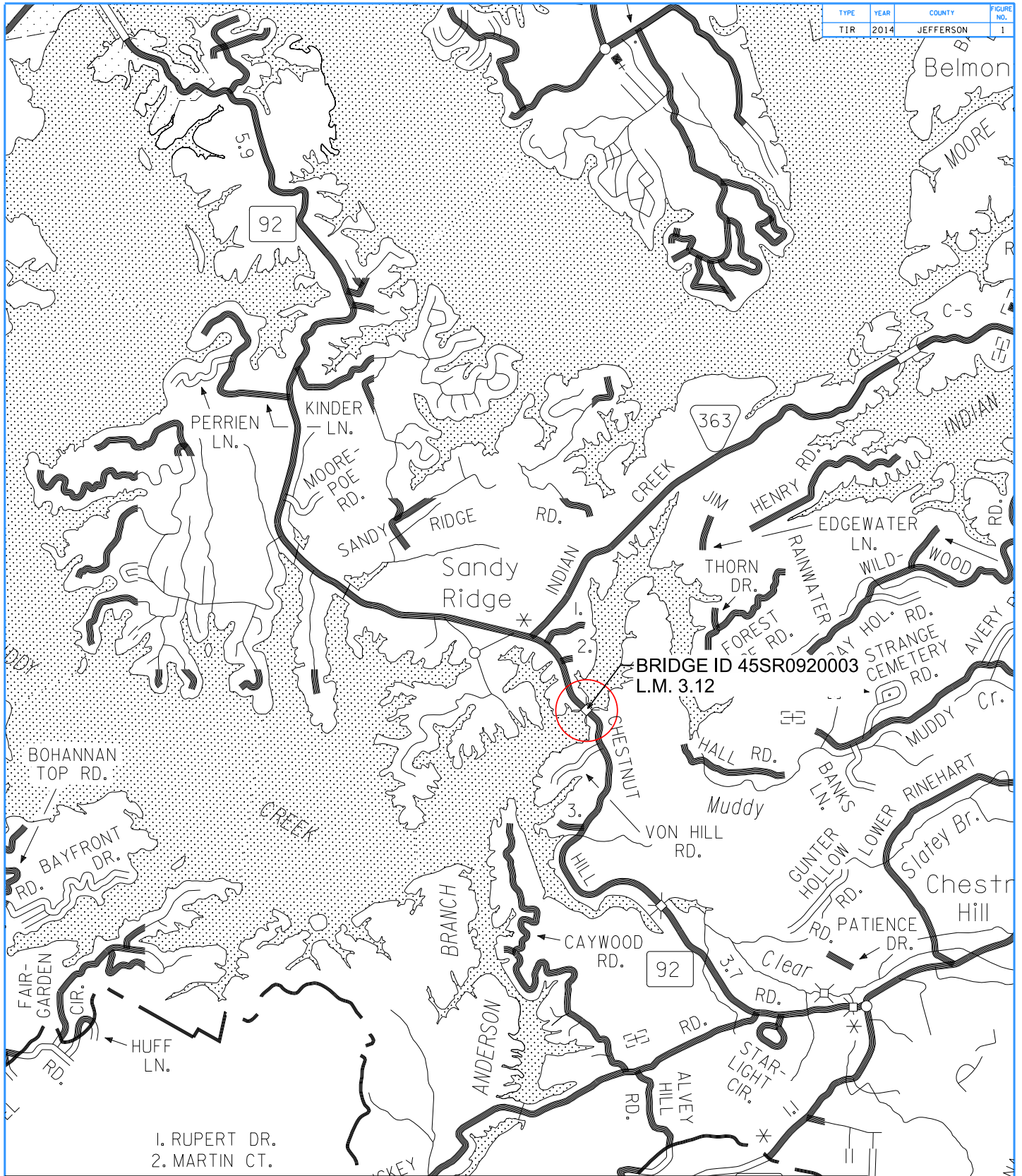
0 1000' 2000'
SCALE 1 IN. = 2000 FT.

TRANSPORTATION INVESTMENT
REPORT
STATE ROUTE 92
BRIDGE OVER MUDDY CREEK AT L.M. 3.12
JEFFERSON COUNTY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STRATEGIC TRANSPORTATION
INVESTMENTS DIVISION

AREA
MAP

TYPE	YEAR	COUNTY	FIGURE NO.
TIR	2014	JEFFERSON	1

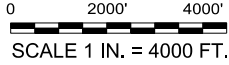


1. RUPERT DR.
2. MARTIN CT.

TRANSPORTATION INVESTMENT REPORT
STATE ROUTE 92
BRIDGE OVER MUDDY CREEK AT L.M. 3.12
JEFFERSON COUNTY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 STRATEGIC TRANSPORTATION INVESTMENTS DIVISION

PROJECT MAP



TYPE	YEAR	COUNTY	FIGURE NO.
TIR	2014	JEFFERSON	1



DOUGLAS
LAKE

MUDDY
CREEK

SR 363

SR 92

BRIDGE ID 45SR0920003
L.M. 3.12

SR 92



0 1000' 2000'
SCALE 1 IN. = 2000 FT.

TRANSPORTATION INVESTMENT
REPORT
STATE ROUTE 92
BRIDGE OVER MUDDY CREEK AT L.M. 3.12
JEFFERSON COUNTY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STRATEGIC TRANSPORTATION
INVESTMENTS DIVISION

AERIAL
MAP

**TRANSPORTATION PLANNING WORKSHEET
BRIDGE REPLACEMENT ANALYSIS, NEEDS, AND COSTS**

County: Jefferson Route: State Route 92 Log Mile: 3.12
 Feature Crossed: Muddy Creek System: 05-STP
 Functional Class: Rural State Bridge ID: 45-SR092-03.12

EXISTING CONDITIONS

2019 AADT: 2,120 App. Cross Section: 18'/20'/60' No. Lanes: 2
 Approach Alignment: Curve In Approach #2; Narrow Bridge Year Built: 1946 Load Limit: 15 Tons
 Width (out to out): 21'-7" Sidewalks: Right None Left None Length: 217'
 No. Spans: Approach: N/A Main: 3
 Substructure: Steel I-Beam Vertical Clearance: N/A Sufficiency Rating: 50.9
 Other: The approach guardrails, guardrail end terminals, and bridgerails are substandard. A 6" gas line belonging to the Jefferson Cocke County Utility District (JCCUD) is attached underneath the bridge.

PROPOSED IMPROVEMENTS

STANDARDS FROM RD01-TS- 3 Type of Work: Replace
 Design Year: 2039 Design AADT: 3,650 Terrain Level ADL (F): -- (R): --
 Project Length: 540' Bridge Length: 240' Approach Length: 2 @ 150' = 300'
 Design Speed (MPH): 50 Posted Speed (MPH): 45
 Approach Width: 24'/44'/60' Bridge Width (O to O): 47.5 ft No. Lanes: 2
 Right-of-Way Required: N/A Tract(s) N/A Acres N/A Structure Type: 3-Span (70'-100'-70') w/Type 4 I-Beams

MAINTENANCE OF TRAFFIC

Temporary Detour: Alternate Route: State Route 35 (U.S. 411) to State Route 9 (U.S. 25W) to State Route 363 (Indian Creek Road)
 Temporary Runaround: Stage Construct:

Remarks: The construction activities should begin during the winter season when the water levels are at their lowest. The State Route 92 bridge detour is approximately 16.5 miles from the end of the bridge around to the other end of the bridge. Detour signs should be located on the south side at the State Route 92 / State Route 35 (U.S. 411) intersection in Chestnut Hill and on the north side at the State Route 92 / State Route 363 (Indian Creek Road) intersection. The detour also utilizes State Route 9 (U.S. 25W) on the east side to complete the bridge detour route.

ESTIMATED COST

Right-of-Way: \$0 Approaches: \$390,000 Structure: \$1,780,000
 Preliminary Engineering: \$260,000 Utilities: \$20,000 Misc./Cont.: \$350,000
 Mobilization: \$110,000 Total: \$2,910,000

Remarks: The roadway width will increase from 18 feet to 24 feet and the shoulder width on each side of the roadway will increase from 0 feet to 10 feet. The proposed horizontal and vertical alignments will remain the same.

Field Investigation by: Nathan Vatter, Jack Qualls, Doug Shook, Tom Lindquist, Ron Campbell, Paige Harris, Jeremy Bowlan, Jay Morgan, Stephanie Wallis (TDOT); Carrie Mays (TVA); Steve Bryan, Kristen Taylor (Corradino)

Route:	State Route 92
Description:	Bridge TIR at L.M. 3.12
	Bridge ID: 45-SR092-03.12
County:	Jefferson
Length:	540 feet
Date:	August 8, 2014

DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
Right-of-Way	\$ -	\$ -	\$ -	\$ -
Clearing and Grubbing	\$ -	\$ -	\$ -	\$ -
Earthwork	\$ -	\$ -	\$ -	\$ -
Railroad Crossing or Separation	\$ -	\$ -	\$ -	\$ -
Drainage	\$ -	\$ -	\$ -	\$ -
Utilities	\$ -	\$ 1,900	\$ 17,100	\$ 19,000
Structures	\$ -	\$ 178,000	\$ 1,602,300	\$ 1,780,300
Pavement Removal	\$ -	\$ 700	\$ 6,500	\$ 7,200
Paving	\$ -	\$ 2,400	\$ 21,700	\$ 24,100
Roadway and Pavement Appurtenances	\$ -	\$ -	\$ -	\$ -
Retaining Walls	\$ -	\$ -	\$ -	\$ -
Topsoil	\$ -	\$ -	\$ -	\$ -
Seeding	\$ -	\$ -	\$ -	\$ -
Sodding	\$ -	\$ -	\$ -	\$ -
Rip-Rap or Slope Protection	\$ -	\$ -	\$ -	\$ -
Fencing	\$ -	\$ -	\$ -	\$ -
Signing ¹			\$ 53,400	\$ 53,400
Pavement Markings ¹			\$ -	\$ -
Lighting ¹			\$ -	\$ -
Signalization ¹			\$ -	\$ -
Guardrail ¹			\$ 14,700	\$ 14,700
Pay Item Quantity Adjustment (15%) ²	\$ -	\$ 27,500	\$ 257,400	\$ 284,900
Maintenance of Traffic (5%)		\$ 10,500	\$ 98,700	\$ 109,200
Mobilization (5%)		\$ 10,500	\$ 98,700	\$ 109,200
CONSTRUCTION COST (rounded)		\$ 231,500	\$ 2,170,500	\$ 2,402,000
Engineering and Contingency (10%)		\$ 23,200	\$ 217,000	\$ 240,200
TOTAL CONSTRUCTION COST (rounded)		\$ 254,700	\$ 2,387,500	\$ 2,642,200
Preliminary Engineering (10%)		\$ 25,500	\$ 238,700	\$ 264,200
PROJECT COST ³(rounded)	\$ -	\$ 280,200	\$ 2,626,200	\$ 2,906,400

¹ This safety item is 100% eligible and does not require a 10% funding match by the local agency.

² For estimating purposes pay items are adjusted for fluctuation of cost based on quantity.

³ For estimating future project costs, a compounded inflation rate of 10% should be applied from the date of this estimate.

Route: State Route 92
County: Jefferson
Section: Log Mile 3.12

Item	Quantity	Unit	2013 Unit Cost	Sub-Total	Total Cost	Rounded Cost	Description/Quantity Calculation
Pavement Removal							
202-03.01	600	SY	\$ 12.07	\$ 7,242	\$ 7,242	\$ 7,200	
Utilities							
	1	Lump Sum	N/A		\$ 19,000	\$ 19,000	See separate calculations
Structures							
	11400	SF	\$ 150.00	\$ 1,710,000			Estimate for simple bridges (47'-6" x 240')
	4687.2	SF	\$ 15.00	\$ 70,308			Estimate for bridge removal (21'-7" x 217')
		Total			\$ 1,780,308	\$ 1,780,300	
Paving							
	6300	SF	\$ 3.82	\$ 24,074			local street asphalt paving - see separate calcs
		Total			\$ 24,074	\$ 24,100	
Signing							
	26.7	Mile	\$ 2,000.00	\$ 53,400.00			\$1000/mile rural or \$2000/mile urban (or \$250/sign for
					\$ 53,400	\$ 53,400	
Guardrail							
705-02.02	108	LF	\$ 15.78	\$ 1,704			Guardrail (End Terminals Not Included in Price)
705-04.07	4	Each	\$ 2,107.76	\$ 8,431			Guardrail Terminal (Type 38)
705-04.09	4	Each	\$ 1,037.25	\$ 4,149			Type 38 Earth Pad
706-01	400	LF	\$ 1.05	\$ 420			Guardrail Removed
		Total			\$ 14,704	\$ 14,700	
Rip Rap or Slope Protection							
709-05.06	0	Ton	\$ 28.42		\$ -	\$ -	1.5 ft deep, 1.75 Tons/CY
Total:					\$ 1,898,700		

Route Utility Cost Estimate Calculations

Option:
Route: State Route 92
County: Jefferson
Length: Log Mile 3.12

Item	Quantity	Unit	Unit Cost	Total Cost	Description/Quantity Calculation
Gas Line - 4"-100 lb Pressure Line		FT	\$ 50	\$ -	
Gas Line - 6"-30 lb Pressure Line	540	FT	\$ 35	\$ 19,000	
Water Line - 12"		FT	\$ 66	\$ -	
Water Line - 6"		FT	\$ 35	\$ -	
Sewer Line		FT	\$ 22	\$ -	
Telephone Line (Underground)		FT	\$ 35	\$ -	
Street Light		Each	\$ 1,765	\$ -	
Utility (Power) Pole		Each	\$ 2,500	\$ -	
Cable TV Pole Attachment		Each	\$ 1,000	\$ -	If no better data, 1 pole every 100 yards

Total: **\$ 19,000**

Costs updated in 2007



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STRATEGIC TRANSPORTATION INVESTMENTS DIVISION
SUITE 1000, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TENNESSEE 37243-1402
(615) 741-2208

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

MEMORANDUM

TO: Jeremy Bowlan, Project Manager
Strategic Transportation Investments Division

FROM: Stephen K. Bryan, PE, PTOE
The Corradino Group

DATE: August 8, 2014

SUBJECT: TIR Field Review (Special Bridge Replacement Program)
State Route 92 Bridge over Muddy Creek
Log Mile 3.12, Bridge ID 45-SR092-03.12
Jefferson County
PIN 119812.00

A field review was held for the above referenced project on March 18, 2014. Those in attendance included:

Name	Agency	Phone	E-mail
Jeremy Bowlan	TDOT Strategic Transportation Investments Division	615-532-7123	Jeremy.Bowlan@tn.gov
Paige Harris	TDOT Strategic Transportation Investments Division	615-253-2781	Paige.Harris@tn.gov
Nathan Vatter	TDOT Region 1 Traffic	865-594-2456	Nathan.Vatter@tn.gov
Doug Shook	TDOT Region 1 Right of Way	865-594-2692	Doug.Schook@tn.gov
Jack Qualls	TDOT Region 1 Office of Community Transportation	865-594-2662	Jack.Qualls@tn.gov
Tom Lindquist	TDOT Region 1 Right of Way & Utilities	865-594-2473	Thomas.Lindquist@tn.gov
Ron Campbell	TDOT Bridge	865-594-2416	Ron.Campbell@tn.gov
Jay Morgan	TDOT Region 1 Design	865-594-0714	Jay.Morgan@tn.gov
Stephanie Wallis	TDOT Region 1 Design	865-594-2424	Stephanie.Wallis@tn.gov
Carrie Mays	Tennessee Valley Authority	865-632-2234	ccmays@tva.gov
Kristen Taylor	The Corradino Group	615-372-6972	ktaylor@corradino.com
Steve Bryan	The Corradino Group	615-372-6972	sbryan@corradino.com

The existing structure consists of a three span continuous steel I-beam bridge. The existing bridge is over an embayment to Douglas Lake with a Winter Pool elevation (January 1 Flood Guide) of 954.0 and a Summer Pool elevation (June 1 Flood Guide) of 994.0. The overall bridge length is 217 feet with a maximum span length of eighty-two (82) feet. The vertical clearance is approximately sixteen (16) feet from the Summer Pool elevation to the bottom of the bridge. The out-to-out bridge width is twenty-one-foot seven-inches (21'-7"). The latest bridge inspection occurred on October 1, 2013 that resulted in a sufficiency rating for this bridge of 50.9. The approach guardrails, guardrail end terminals, and bridge rails are substandard. A six-inch (6") gas line belonging to the Jefferson Cocke County Utility District (JCCUD) is attached underneath the bridge. The 100-year and 500-year flood elevations are 1002.6 and 1003.0, respectively.

The proposed horizontal alignment for this structure will remain on the existing centerline and will be designed to meet the TDOT Standard Drawing RD01-TS-3 for a Design Speed of fifty (50) miles per hour. In addition, the proposed vertical alignment for this structure will remain the same. The existing 6" gas line is critical to maintain during construction and reattach to the proposed bridge structure. Since this proposed bridge is over an embayment to Douglas Lake, two criteria are required. One, a fill offset plan will be needed; and two, a six-foot (6') vertical clearance must be maintained above the Summer Pool elevation in the mid span. TDOT Structures Division recommends a three (3) span bridge with Type 4 I-Beams arranged 70'-100'-70' for a total of 240 feet in length. The existing piers cannot be salvaged for the proposed bridge. The Tennessee Valley Authority (TVA) recommended that the construction activities begin during the winter season when the water levels are at their lowest. A TVA Section 26A permit approval will be required for the new bridge design.

The State Route 92 bridge detour is approximately 16.5 miles from the end of the bridge around to the other end of the bridge. Detour signs should be located on the south side at the State Route 92 / State Route 35 (U.S. 411) intersection in Chestnut Hill and on the north side at the State Route 92 / State Route 363 (Indian Creek Road) intersection. The detour also utilizes State Route 9 (U.S. 25W) on the east side to complete the bridge detour route.

State Route 92 has a base year (2019) AADT of 2,120 vehicles per day (vpd) and a design year (2039) AADT of 3,650 vpd. The proposed bridge over Muddy Creek will consist of an out-to-out width of forty-seven-foot six-inches (47'-6") to accommodate a proposed approach roadway width of forty-four (44) feet, as specified in TDOT Standard Drawing RD01-TS-3 for a two (2) lane arterial roadways. On both approaches of the bridge, the roadway will transition to match the existing twenty-foot (20') roadway width.

The required approach work, estimated replacement, and preliminary engineering costs for this bridge are approximately \$2.88 million. No right-of-way acquisition is anticipated for this project. A maintenance agreement will not be required since the proposed bridge is located along State Route 92.

jb

cc: file

CHECK LIST OF DETERMINANTS FOR LOCATION STUDY

If any of the following facilities or ESE categories are located within the project area or corridor, place an "x" in the blank opposite the item. Where more than one alternate is to be considered, place its letter designation in the blank.

1.	Agricultural land usage		
2.	Airport (existing or proposed)		
3.	Commercial area, shopping center		
4.	Floodplains	x	
5.	Forested land	x	
6.	Historical, cultural, or natural landmark		
7.	Industrial park, factory		
8.	Institutional usages		
	a. School or other educational institution		
	b. Church or other religious institution (Cemetery)		
	c. Hospital or other medical facility		
	d. Public building, e.g., fire station		
	e. Defense installation		
9.	Recreation usages		
	a. Park or recreational area	x	
	b. Game preserve or wildlife area		
10.	Residential establishment	x	
11.	Urban area, town, city, or community		
12.	Waterway, lake, pond, river, stream, spring	x	
	Permit required: Coast Guard		
	Section 404	x	
	TVA Section 26a review	x	
	NPDES	x	
	Aquatic Resource Alteration	x	
13.	Other		
14.	Location coordinated with local officials		
15.	Railroad crossings		
16.	Hazardous materials site		

**TENNESSEE DEPARTMENT OF TRANSPORTATION
LONG RANGE PLANNING DIVISION**

PROJECT NO.: 45011-0226-94 ROUTE: SR-92
 COUNTY: JEFFERSON CITY: SANDY RIDGE
 PROJECT PIN NUMBER: 119812.00
 PROJECT DESCRIPTION: BRIDGE AND APPROACHES OVER MUDDY CREEK, SR-92 @ LM 3.12

DIVISION REQUESTING:

MAINTENANCE PAVEMENT DESIGN
 PLANNING STRUCTURES
 PROG. DEVELOPMENT & ADM. SURVEY & ROADWAY DESIGN
 PUBLIC TRANS. & AERO. TRAFFIC SIGNAL DESIGN
 OTHER
 YEAR PROJECT PROGRAMMED FOR CONSTRUCTION: _____
 PROJECTED LETTING DATE: _____

TRAFFIC ASSIGNMENT:

BASE YEAR		DESIGN YEAR					DESIGN ROADWAY % TRUCKS		DESIGN AVERAGE DAILY LOADS	
AADT	YEAR	AADT	DHV	%	YEAR	DIR.DIST.	DHV	AADT	FLEX	RIGID
2120	2019	3650	402	11	2039	65-35	2	3		

REQUESTED BY: NAME JEREMY BOWLAN DATE 1/21/14
 DIVISION PROJECT INITIATION
 ADDRESS 10th FLOOR, J.K. POLK BLDG.
NASHVILLE, TN.

REVIEWED BY: TONY ARMSTRONG *Tony Armstrong* DATE 1.22.14
 TRANSPORTATION MANAGER 1
 SUITE 1000, JAMES K. POLK BUILDING

APPROVED BY: DUDLEY DANIEL *Dudley Daniel* DATE 1.22.14
 TRANSPORTATION MANAGER 2
 SUITE 1000, JAMES K. POLK BUILDING

COMMENTS:

THIS TRAFFIC IS BASED ON 2013 CYCLE COUNTS. THE FUTURE TRAFFIC IS BASED ON GROWTH RATE FROM THE KNOXVILLE TPO COMPUTER ASSIGNMENT MODEL.

DHV'S ARE NOT REQUIRED FOR SIDE ROADS LESS THAN 1000 AADT.

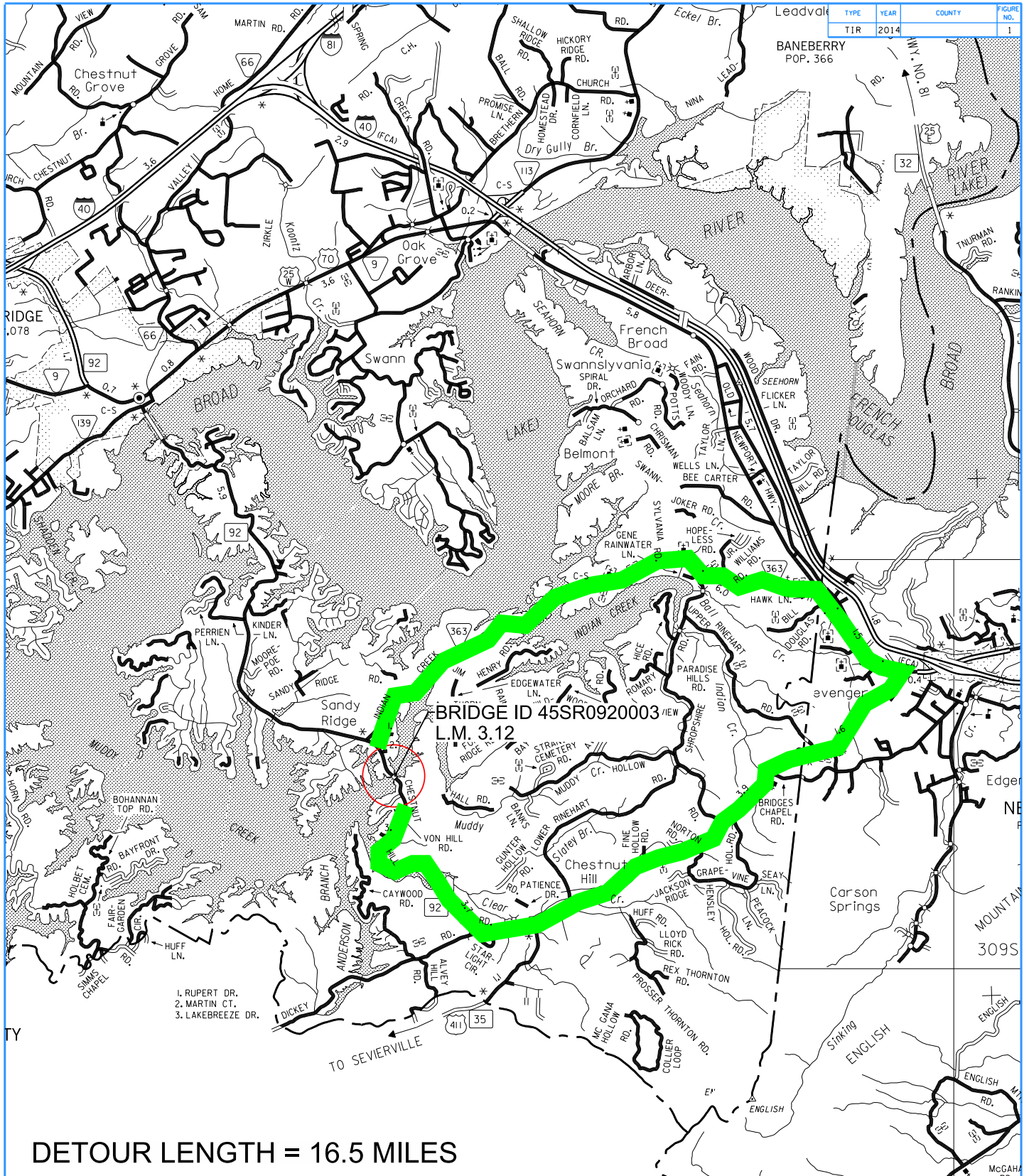
NOTE: FOR BRIDGE REPLACEMENT PROJECTS, ADLs ARE NOT REQUIRED FOR ADTs OF 1000 OR LESS AND PERCENTAGE OF TRUCKS OF 7% OR LESS.

SEE ATTACHMENTS FOR TURNING MOVEMENTS AND/OR OTHER DETAILS.

(REV. 12/2/13)

TYPE	YEAR	COUNTY	FIGURE NO.
TIR	2014		1

Leadville
BANEERRY
POP. 366



DETOUR LENGTH = 16.5 MILES

TRANSPORTATION INVESTMENT
REPORT
STATE ROUTE 92
BRIDGE OVER MUDDY CREEK AT L.M. 3.12
JEFFERSON COUNTY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STRATEGIC TRANSPORTATION
INVESTMENTS DIVISION

DETOUR
MAP

**Bridge TPR Flow Calculations
For Hydrologic Area 1
Area > 230 Acres**

County: Jefferson
 Bridge ID: 45-SR092-03.12
 Route: State Route 92
 Feature Crossed: Muddy Creek
 Log Mile: 3.12

By: JHS
 Date: 5/12/14
 PIN: 119812.00

DRAINAGE BASIN

Measurement from quad = 293,759 acres
 Contributing Drainage Area, CDA = acres/640 = 459.00 sq. mi.

USGS REGRESSION EQUATIONS FOR FLOW

$Q_2 = 119(CDA)^{0.756} = 12,243$ cfs
 $Q_5 = 197(CDA)^{0.740} = 18,374$ cfs
 $Q_{10} = 258(CDA)^{0.731} = 22,772$ cfs
 $Q_{25} = 343(CDA)^{0.721} = 28,475$ cfs
 $Q_{50} = 412(CDA)^{0.715} = 32,968$ cfs
 $Q_{100} = 485(CDA)^{0.709} = 37,408$ cfs

DEPTH OF FLOW EQUATIONS

10-Year Flood Depth = $4.11(CDA)^{0.184} = 12.7$ ft
 100-Year Flood Depth = $5.32(CDA)^{0.186} = 16.6$ ft

AREAS

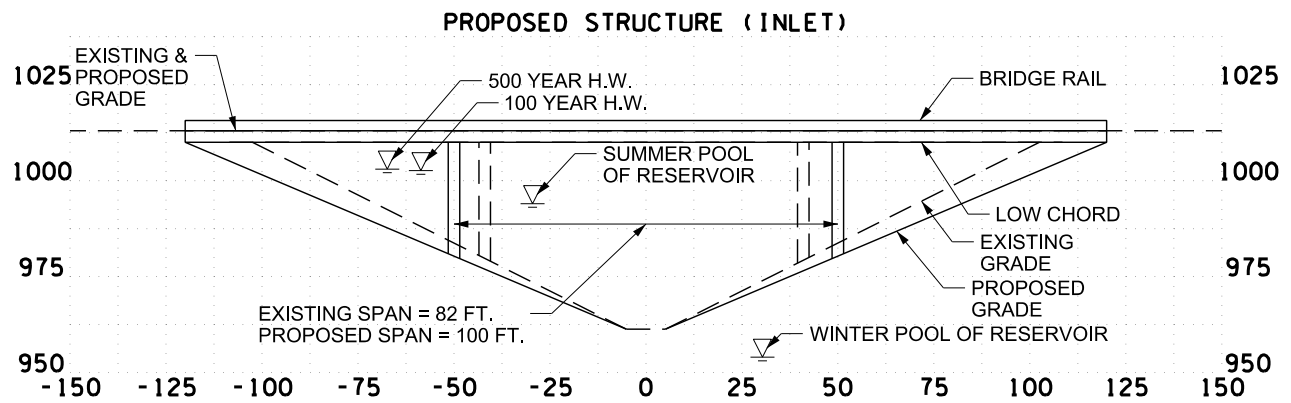
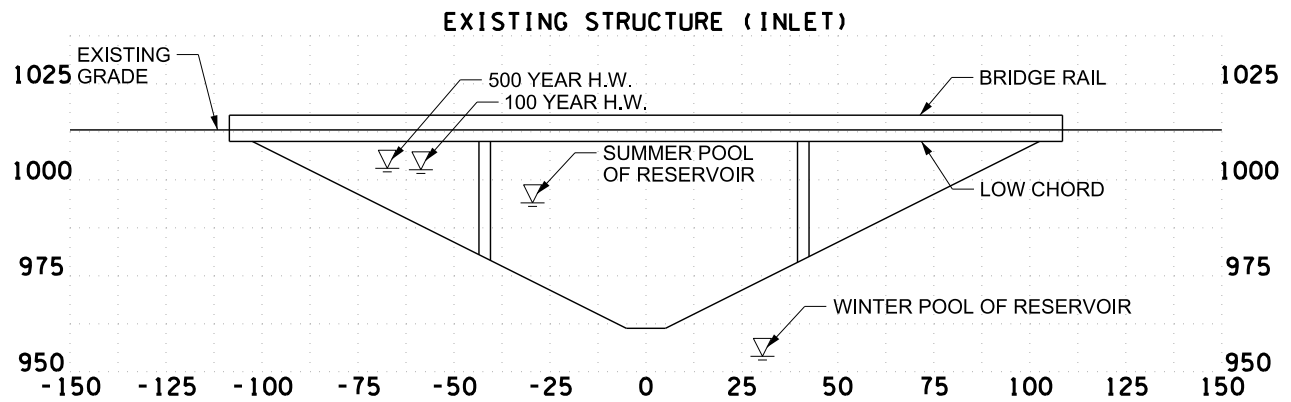
Existing Area Below Low Chord = 5,240 ft²
 Proposed Area Below Low Chord = 6,093 ft²
 Proposed 10-Year Flood Area, $A_{10} =$ N/A ft²
 Proposed 100-Year Flood Area, $A_{100} =$ 4,446 ft²

VELOCITIES

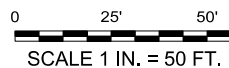
Proposed 10-Year Flood Velocity, $V_{10} = Q_{10}/A_{10} =$ N/A fps
 Proposed 100-Year Flood Velocity, $V_{100} = Q_{100}/A_{100} =$ 8.4 fps

Note: Location is an embayment of Douglas Lake, calculations are not applicable.

TYPE	YEAR	COUNTY	FIGURE NO.
BRIDGE	2014	JEFFERSON	1



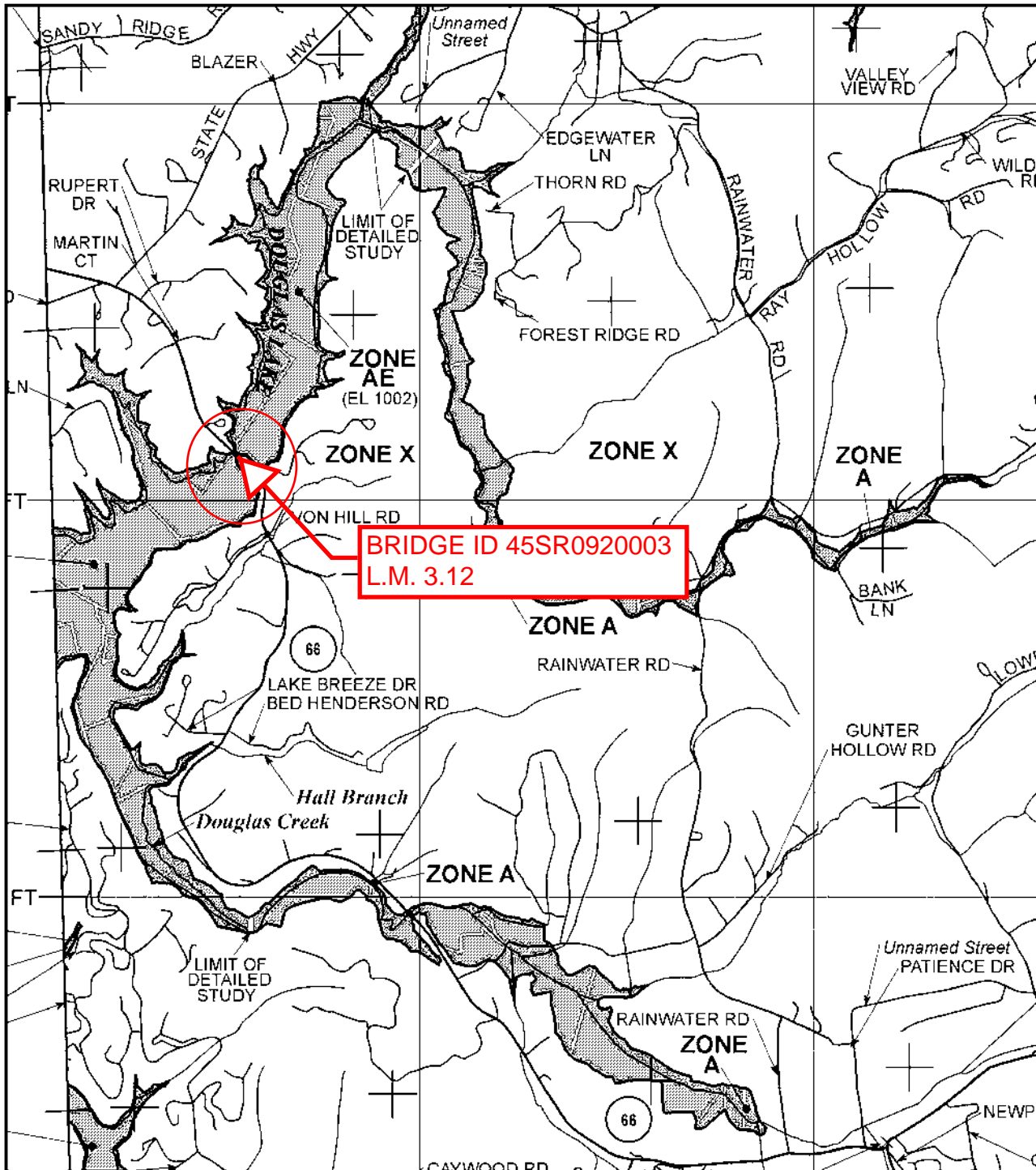
TRANSPORTATION INVESTMENT REPORT



STATE ROUTE 92
 L.M. 3.12 BRIDGE 450SR092-03.12
 JEFFERSON COUNTY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 PROJECT PLANNING DIVISION

BRIDGE
 SECTIONS



and Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 2000'

1,000 0 1,000 2,000 3,000 4,000 FEET

NFIP

PANEL 0300D

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP
JEFFERSON COUNTY,
TENNESSEE
AND INCORPORATED AREAS

PANEL 300 OF 300

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
JEFFERSON COUNTY	470997	0300	D

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
47089C0300D

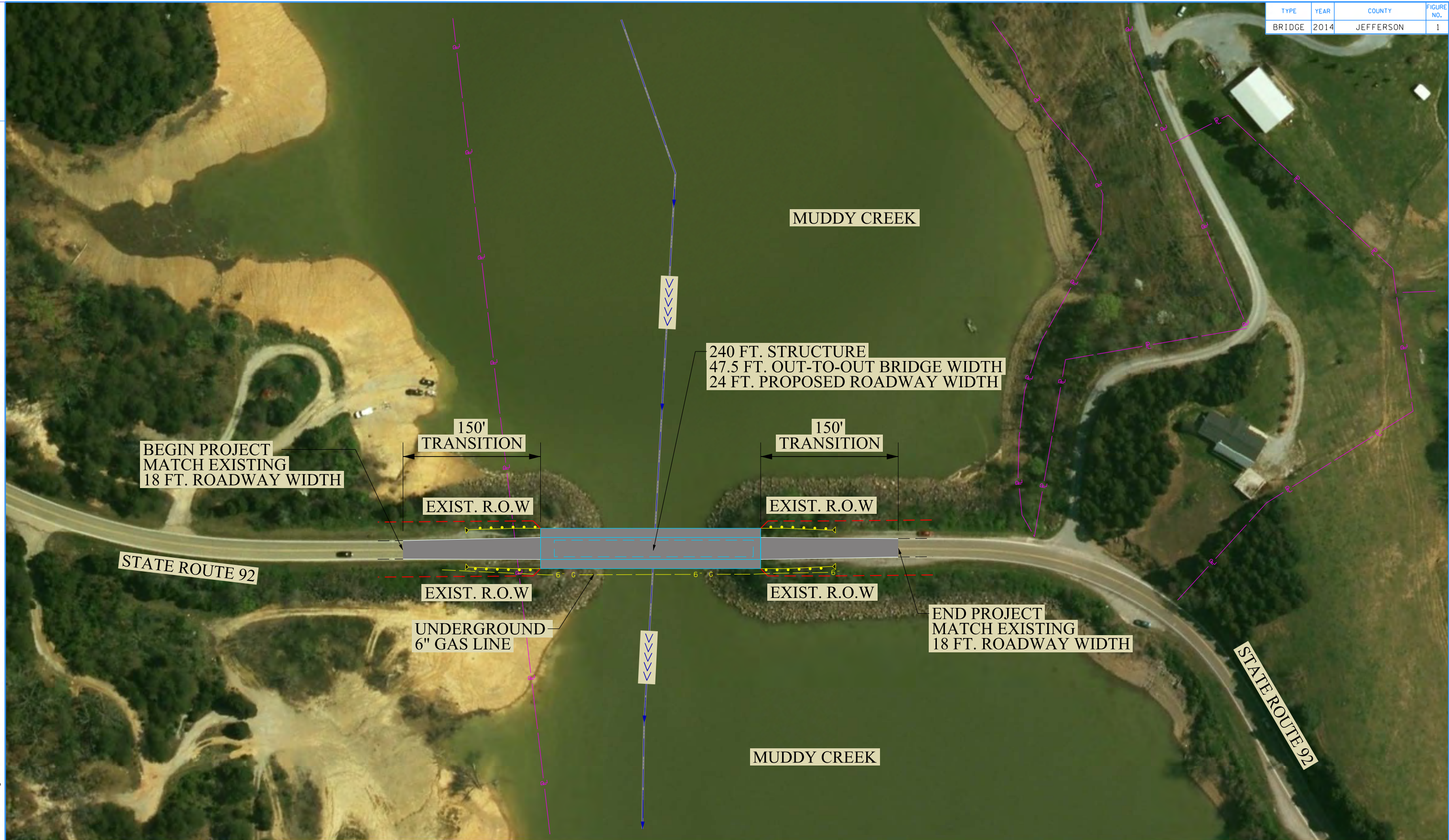


EFFECTIVE DATE
DECEMBER 16, 2008

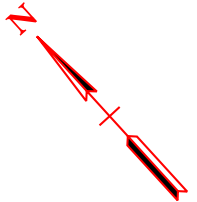
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

TYPE	YEAR	COUNTY	FIGURE NO.
BRIDGE	2014	JEFFERSON	1

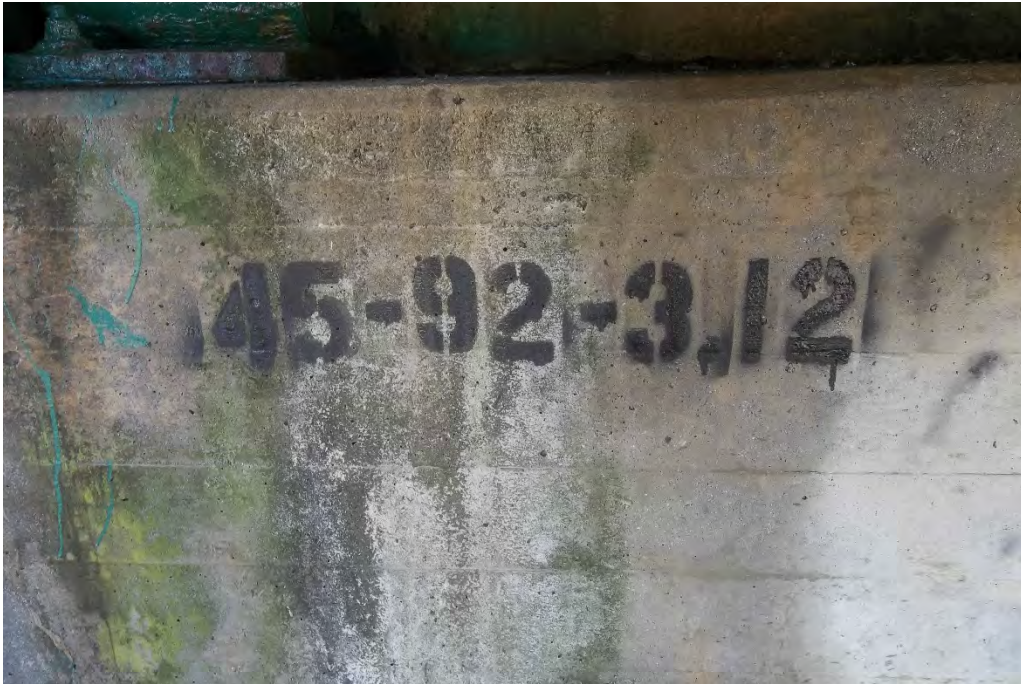


8/8/2014 4:08:13 PM
H:\448\W0_34\dgn\Muddy Creek Plan Sheet.dgn



TRANSPORTATION INVESTMENT REPORT
STATE ROUTE 92
BRIDGE OVER MUDDY CREEK AT L.M. 3.12
JEFFERSON COUNTY

SITE PHOTOS: 3/18/14



BRIDGE ID NUMBER

SITE PHOTOS: 3/18/14



INLET SIDE LOOKING SOUTH TOWARDS THE BRIDGE



INLET SIDE LOOKING NORTH AWAY FROM THE BRIDGE

SITE PHOTOS: 3/18/14



OUTLET SIDE LOOKING NORTH TOWARDS THE BRIDGE



OUTLET SIDE LOOKING SOUTH AWAY FROM THE BRIDGE

SITE PHOTOS: 3/18/14



WEST APPROACH LOOKING EAST TOWARDS THE BRIDGE



WEST APPROACH LOOKING WEST AWAY FROM THE BRIDGE

SITE PHOTOS: 3/18/14



EAST APPROACH LOOKING WEST TOWARDS THE BRIDGE



EAST APPROACH LOOKING EAST AWAY FROM THE BRIDGE

SITE PHOTOS: 3/18/14



CENTER OF BRIDGE LOOKING EAST



CENTER OF BRIDGE LOOKING WEST

SITE PHOTOS: 3/18/14



VIEW OF INLET SIDE FROM THE BRIDGE DECK



VIEW OF OUTLET SIDE FROM THE BRIDGE DECK

SITE PHOTOS: 3/18/14



VIEW OF BRIDGE FROM THE INLET SIDE (LOOKING LEFT)



VIEW OF BRIDGE FROM THE INLET SIDE (LOOKING RIGHT)

SITE PHOTOS: 3/18/14



VIEW OF BRIDGE FROM THE OUTLET SIDE (LOOKING LEFT)



VIEW OF BRIDGE FROM THE OUTLET SIDE (LOOKING RIGHT)

SITE PHOTOS: 3/18/14



VIEW OF 6" GAS LINE LOOKING SOUTH UNDER THE BRIDGE DECK



VIEW OF 6" GAS LINE LOOKING EAST UNDER THE BRIDGE DECK

SITE PHOTOS: 3/18/14



VIEW OF NARROW BRIDGE SIGN LOOKING WEST (EAST OF BRIDGE)



VIEW OF NO SWIMMING OR FISHING SIGN LOOKING EAST (WEST OF BRIDGE)

SITE PHOTOS: 3/18/14



VIEW OF REVERSE CURVE SIGN LOOKING EAST (WEST OF BRIDGE)
