

901 Vine Street  
P.O. Box 72  
Poplar Bluff, MO 63902  
Phone 573.785.9621  
Fax 573.785.2651



**ADDENDUM NO. 1**

DATE: June 29, 2016

PROJECT: Stoddard County Road 784 Bridge Replacement

PROJECT No.: S&C # P150081

LETTING DATE: Tuesday July 5<sup>th</sup>, 2016 at 10:00 AM

LOCATION: Stoddard County Courthouse, Bloomfield, MO

OWNER: Stoddard County Commission

ENGINEER: S. H. Smith & Company, Inc. of Poplar Bluff, Missouri

**SUBJECT: Project Location (Project Plans)**

1. A discrepancy was found in the location maps on page 1 & 5 of the project plans. The project location was pointing to the wrong bridge.

For the project plans; replace sheets 1 & 5 with the attached revised documents.

**SUBJECT: Notice to Contractors (Project Manual)**

1. The final construction deadline has been pushed back to allow more competitive bidding and allow the contractor a longer time-period in which to start construction. The final deadline for construction completion has been changed to March 31<sup>st</sup>, 2017.

For the project manual; replace the sheets pertaining to the "Notice to Contractor" with the attached revised document.

**SUBJECT: Bid Schedule (Project Manual)**

1. Due to the "Traffic Control Plan" consisting of the wrong bridge location, the total number of required construction signs will change. The original plan quantity was four signs, but will now require five.

For the project manual; replace the sheets pertaining to the "Bid Schedule" with the attached revised document.

Sincerely,

**SMITH & CO.**  
ENGINEERS

  
Jeremy Manning, P.E.  
Project Manager





STODDARD COUNTY ROAD 784  
BRIDGE REPLACEMENT  
FOR:  
STODDARD COUNTY, MISSOURI

BRO# BRO-B103(065)  
FEBRUARY 2016

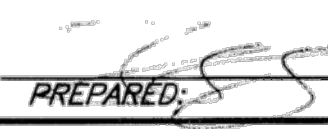
LENGTH OF PROJECT

SHEET 3


BEGINNING OF PROJECT—STA. 0+00  
END OF PROJECT—STA. 3+60

APPARENT LENGTH—LF. 360  
MILEAGE—MI. 0.07

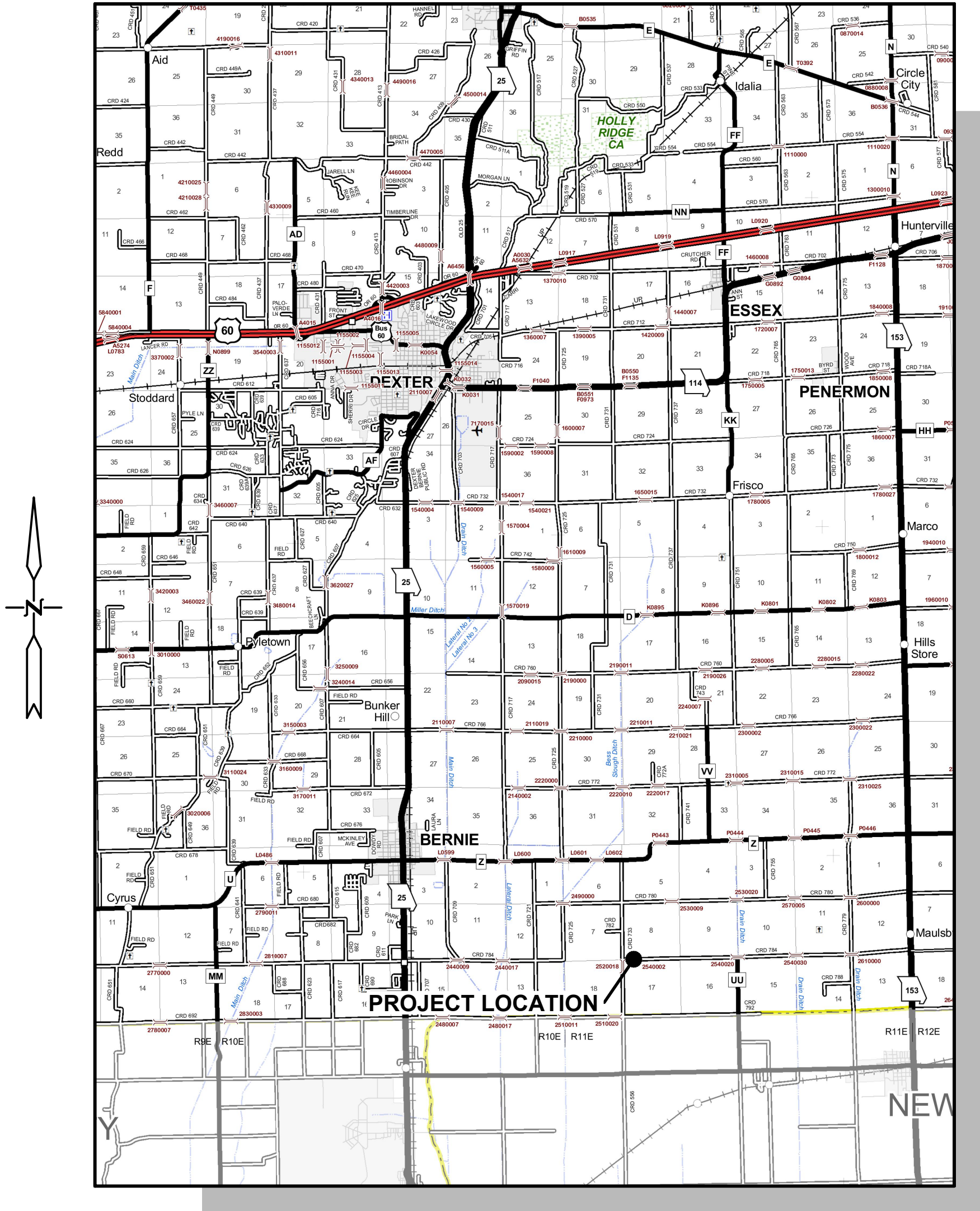
CONSULTING ENGINEER  
SMITH & CO.

PREPARED:  DATE 4-14-16

STODDARD COUNTY

 DATE 3-7-16

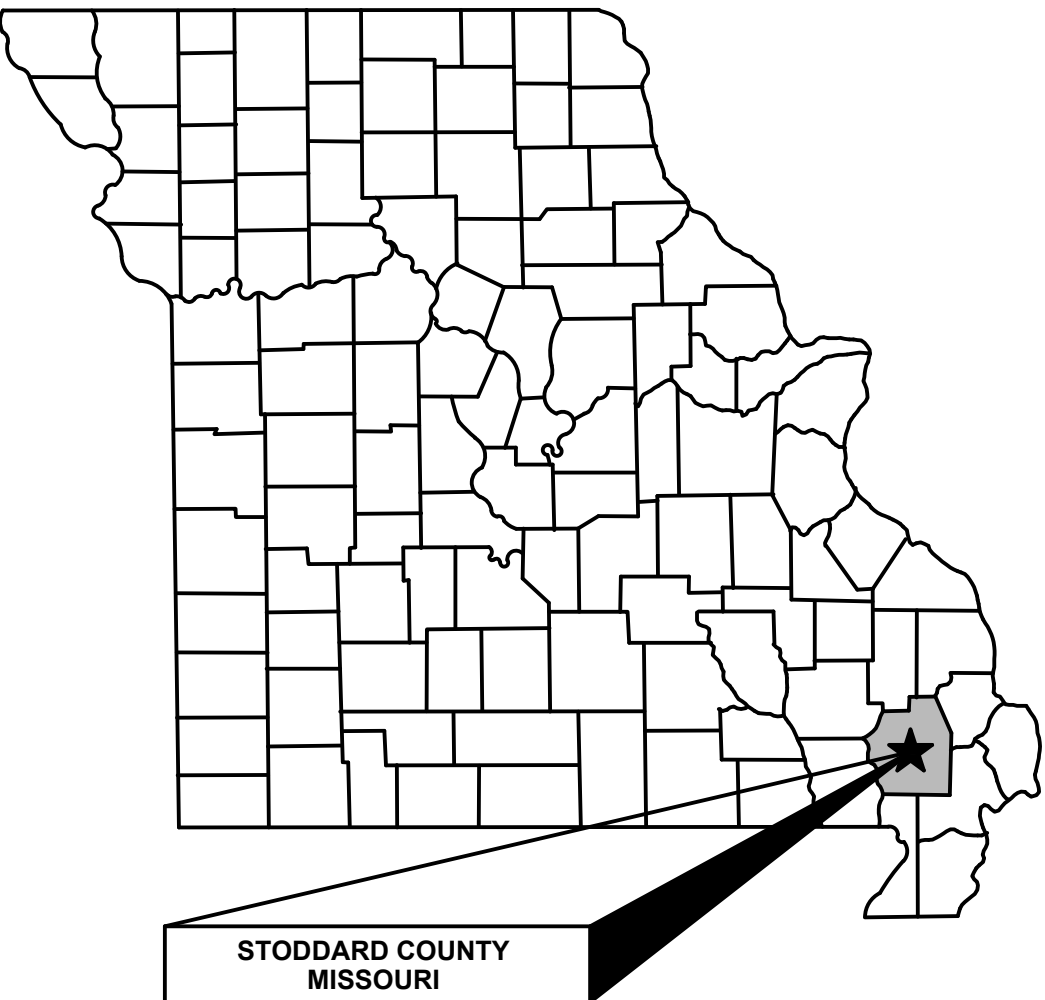
PRESIDING COMMISSIONER



COUNTY STODDARD  
ROUTE COUNTY ROAD 784  
PROJECT BRO-B103(065)  
CART RD. NO. 254  
BRIDGE NO. 2540002  
SEC 8 & 17, T23N, R11E

DESIGN DESIGNATION

A.D.T. - 2010 = LESS THAN 100  
A.D.T. - 2033 = LESS THAN 100  
PERCENTAGE OF TRUCK TRAFFIC = 10%  
BRIDGE WIDTH = 24'  
LOADING: HS20-44  
V = 30 MPH  
OFF SYSTEM RURAL LOCAL ROAD

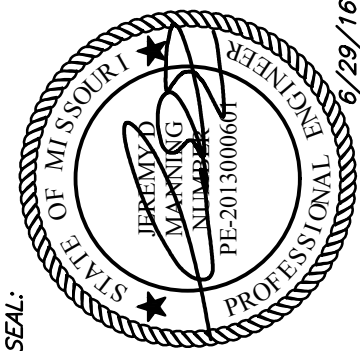


SHEET	DESCRIPTION	REVISIONS						
		0	1	2	3	4	5	6
1	COVER SHEET	●						
2	LEGEND / NOTES	●						
3	PLAN AND PROFILE	●						
4	BRIDGE LAYOUT	●						
5	SOIL BORING AND TRAFFIC PLAN	●						
6	P.P.C. DECK BEAM SUPERSTRUCTURE	●						
7	P.P.C. DECK BEAM PILE BENT ABUTMENT	●						
8	BILL OF REINFORCING STEEL	●						
9	P.P.C. DECK BEAM DETAILS	●						
10	P.P.C. DECK BEAM DETAILS	●						
11	GUARD RAIL DETAILS	●						
12	ROAD CROSS SECTIONS	●						
13	RIGHT OF WAY PLAN	●						

ESTABLISHED 1968  
AN EMPLOYEE OWNED COMPANY  
**SMITH & CO.**  
ENGINEERS



CIVIL ENGINEERING • SURVEYING • ENVIRONMENTAL & GEOTECHNICAL SERVICES • MATERIAL TESTING



JEREMY D. MANNING  
MO. # PE-2013000601  
S.H. SMITH & COMPANY  
MO. CERT. # E-016-D

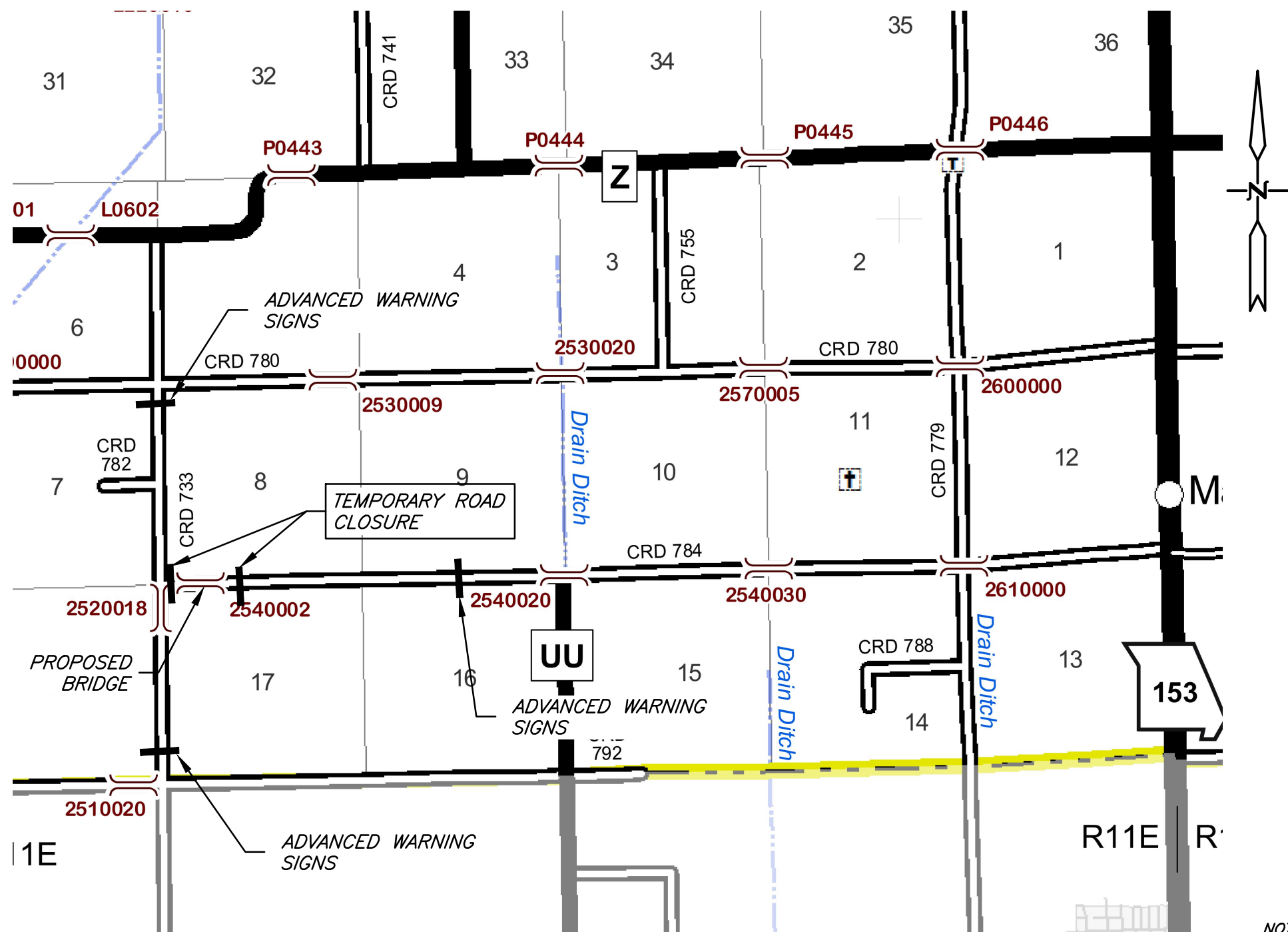
ESTABLISHED 1968  
**SMITH & CO.**  
ENGINEERS  
901 VINE STREET, P.O. BOX 72  
POPLAR BLUFF, MISSOURI 63902  
(573) 785-9621 FAX: (573) 785-2651  
CIVIL ENGINEERING • SURVEYING •  
ENVIRONMENTAL & GEOTECHNICAL SERVICES • MATERIAL TESTING

COUNTY ROAD 784  
BRIDGE REPLACEMENT  
FOR  
STODDARD COUNTY, MISSOURI

JOB #: P150081  
SHEET: 1



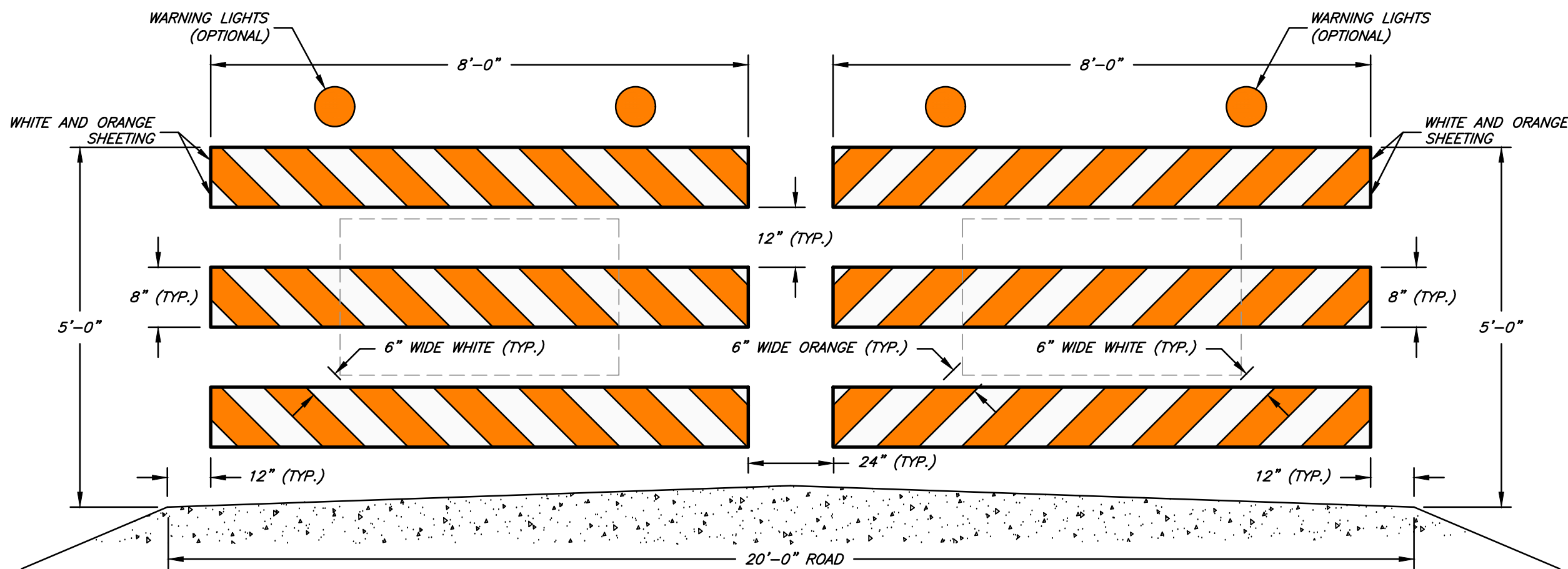
6/29/2016 2:23 PM A:\P150081 Stoddard County Road 784 Bridge (ing Drawing)\P150081-RFB.dwg



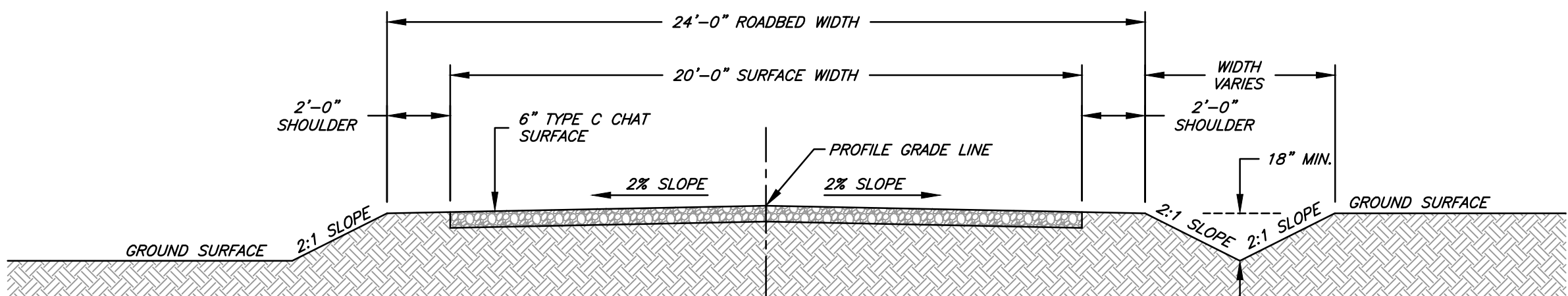
TRAFFIC ROUTING PLAN  
N.T.S.

- NOTES**
1. THE WORDS "ROAD CLOSED" MAY BE REPLACED WITH THE WORDS "BRIDGE OUT" WHERE APPLICABLE.
  2. A TEMPORARY ROAD CLOSURE SHALL CONSIST OF TYPE III MOVABLE BARRICADES ACCOMPANIED BY A SIGN READING "ROAD CLOSED", "BRIDGE OUT" OR AN APPROVED ALTERNATE.

- NOTES:**
1. ONE TYPE III MOVABLE BARRICADE WILL BE REQUIRED TO COMPLETELY CLOSE EACH 8' OF TRAVELED ROADWAY WIDTH.
  2. SIGNS SHALL OBSCURE NO MORE THAN 50 PERCENT OF THE TOP 2 RAILS OR 33 PERCENT OF ALL THREE RAILS.
  3. WHERE A BARRICADE ARRAY EXTENDS ACROSS A ROADWAY, THE STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN OR PASS.
  4. WHERE BOTH RIGHT AND LEFT VEHICULAR MOVEMENTS ARE PROVIDED, THE STRIPES SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE ARRAY.
  5. WHERE NO VEHICULAR MOVEMENTS ARE PROVIDED, THE STRIPES SHALL SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE ARRAY.
  6. SPECIFIC LOCATION OF BARRICADES TO BE COORDINATED WITH THE ENGINEER UPON START OF CONSTRUCTION.



TYPE III MOVABLE BARRICADE  
N.T.S.

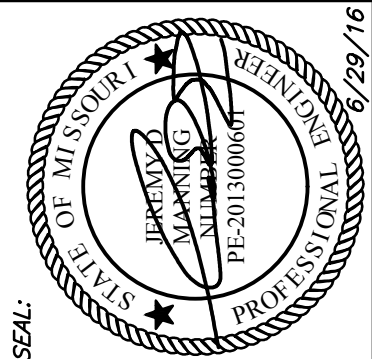


TYPICAL ROADWAY SECTION  
N.T.S.

SMITH&CO. ENGINEERS		901 Vine Street, P.O. Box 72 Poplar Bluff, MO 63901 Ph: 573.785.9621 Fax: 573.785.2651 URL: www.shsmithco.com email: info@shsmithco.com		GEOTECHNICAL BOREHOLE LOG		BH - 1	
Project Name: Stoddard County Road 784 Bridge		Project No: P150081		Page 1 of 2		Page 1 of 2	
Client: Stoddard County Commission		Project Location: County Road 784, Parma, MO		Drilled By: MBF		Logged By: MBF	
Drilled: 6/30/2015		Type: CME 750 ATV		Depth: 13 ft ATD		Boring: Drill Cuttings	
Revised: MBF		Size: 2.75-inch		Location: 13 ft from NE corner		Other: 17 ft from SE corner of existing bridge	
Approved: FJD, CLW		Method: Hollow Stem Auger		Elevation: 283.00			
Comments: CDS		Depth: 61 ft					
BOREHOLE		SAMPLES & FIELD TESTS		MATERIAL DESCRIPTION		NOTES	
Depth	Elevation	Sample Type	Number	Recovery, %	SPT Blow Counts @ 6"	PP Reading, ROD-inches	Graphic Log
0	283						
5	278		1	15	1	1.50	
10	273		2	15	1	15	
15	268		3	10	4	14	
20	263		4	12	5	12	
25	258						
		2" O.D. split-barrel sampler driven with 140-lb SPT hammer		Standard Penetration Test (SPT) Blow Counts with 140 pound hammer falling 30" to drive split spoon sample in 3'-6" increments. Sum of test two numbers is the blow count per foot (or as listed) on the SPT Results.		A-1 Time Drilled	
		3" O.D. thin-walled (Sheel) tube push sampler		Free water depth in boring		Rock Quality Designation = Amount, in percent, of intact rock core pieces greater than 4 inches in length in each curing interval calculated as the sum of the lengths of intact core, divided by the length of the core run. Recoverability expressed as	
		2" O.D. Continuous rock core (RC) unless otherwise specified		RQD		Pocket Penetration meter reading of unconfined strength (approximate TSF) on undisturbed samples. PP Reading on disturbed SPT samples are higher than actual. Laboratory Unconfined Compressive Strength (PSF)	
		2.94" I.D. CME continuous soil sampler					
		3" O.D. split-barrel sampler with or without liners driven with 140-lb hammer					

BORE HOLE LOG #1

SMITH&CO. ENGINEERS		901 Vine Street, P.O. Box 72 Poplar Bluff, MO 63901 Ph: 573.785.9621 Fax: 573.785.2651 URL: www.shsmithco.com email: info@shsmithco.com		GEOTECHNICAL BOREHOLE LOG		BH - 1	
Project Name: Stoddard County Road 784 Bridge		Project No: P150081		Page 2 of 2		Page 2 of 2	
Client: Stoddard County Commission		Project Location: County Road 784, Parma, MO		Drilled By: FJD, CLW		Logged By: MBF	
Revised: MBF		Depth: 13 ft ATD		Boring: Drill Cuttings		Other: 17 ft from SE corner of existing bridge	
Approved: FJD, CLW		Method: Hollow Stem Auger		Elevation: 283.00			
Comments: CDS		Depth: 61 ft					
BOREHOLE		SAMPLES & FIELD TESTS		MATERIAL DESCRIPTION		NOTES	
Depth	Elevation	Sample Type	Number	Recovery, %	SPT Blow Counts @ 6"	PP Reading, ROD-inches	Graphic Log
25	258						
30	253		5	14	5	20	
35	248						
40	243		6	0	15	25	
45	238		7	12	6	17	
50	233		8	10	7	15	
55	228		9	2	10	22	
60	223		10	17	7	30	
65	218						
		2" O.D. split-barrel sampler driven with 140-lb SPT hammer		Standard Penetration Test (SPT) Blow Counts with 140 pound hammer falling 30" to drive split spoon sample in 3'-6" increments. Sum of test two numbers is the blow count per foot (or as listed) on the SPT Results.		A-1 Time Drilled	
		3" O.D. thin-walled (Sheel) tube push sampler		Free water depth in boring		Rock Quality Designation = Amount, in percent, of intact rock core pieces greater than 4 inches in length in each curing interval calculated as the sum of the lengths of intact core, divided by the length of the core run. Recoverability expressed as	
		2" O.D. Continuous rock core (RC) unless otherwise specified		RQD		Pocket Penetration meter reading of unconfined strength (approximate TSF) on undisturbed samples. PP Reading on disturbed SPT samples are higher than actual. Laboratory Unconfined Compressive Strength (PSF)	
		2.94" I.D. CME continuous soil sampler					
		3" O.D. split-barrel sampler with or without liners driven with 140-lb hammer					



JEREMY D. MANNING  
MO# PE-201300601

S.H. SMITH & COMPANY  
CERT. # E-616-D

NO.	REVISIONS	DATE	BY	APP.
0	ISSUED FOR BID			

DATE: 5-15  
DATE: 6-15  
DATE: 12-15  
DATE: 12-15

SMITH&CO. ENGINEERS  
901 VINE STREET, P.O. BOX 72  
POPULAR BLUFF, MISSOURI 63902  
(573) 785-9621 FAX: (573) 785-2651 WWW.SHSMITHCO.COM  
CIVIL ENGINEERING • SURVEYING • MATERIAL TESTING  
ENVIRONMENTAL & GEOTECHNICAL SERVICES

COUNTY ROAD 784 BRIDGE REPLACEMENT  
STODDARD COUNTY, MISSOURI

SOIL BORINGS AND TRAFFIC PLAN

PROJECT #: P150081

SHEET: 5



## NOTICE TO CONTRACTORS

Sealed bids for the Stoddard County Road 784 Bridge Replacement project, addressed to Stoddard County Commission, P.O. Box 110 for the proposed work will be received by the Presiding Commissioner until 10:00 A.M. (prevailing local time) on **7-05-16** at the office of The Presiding Commissioner, Stoddard County Courthouse, P.O. Box 110, and at that time will be publicly opened. Bids should be delivered to: Stoddard County Commission, P.O. Box 110 Bloomfield MO 63825.

**(1) PROPOSED WORK:** The proposed work for the Stoddard County Road 784 Bridge Replacement, hereinafter called the work, includes:

Replace an aging and inadequate bridge with a new single span box-beam bridge

**(2) COMPLIANCE WITH CONTRACT PROVISIONS:** The bidder, having examined and being familiar with the local conditions affecting the work, and with the contract, contract documents, including the Missouri Highways and Transportation Commission's "Missouri Standard Specifications for Highway Construction (2011), including Supplemental Specifications to 2011 Missouri Standard Specifications for Highway Construction – April 1, 2016", their revisions, and the request for bid, including appendices, the special provisions and plans, hereby proposes to furnish all labor, materials, equipment, services, etc., required for the performance and completion of the work. All references are to the Missouri Standard Specifications for Highway Construction, as revised, unless otherwise noted.

The following documents are available on the Missouri Department of Transportation web page at [www.modot.mo.gov](http://www.modot.mo.gov) under "Business with MoDOT" "Standards and Specifications". The effective version shall be determined by the letting date of the project.

### General Provisions & Supplemental Specifications

These supplemental bidding documents contain all current revisions to the bound printed versions and have important legal consequences. It shall be conclusively presumed that they are in the bidder's possession, and they have been reviewed and used by the bidder in the preparation of any bid submitted on this project.

Please note that within the above-listed documents, the term "Commission" shall be replaced with the term, "The Stoddard County Commission", and the term "Engineer" is a reference to the Engineer of Record from S.H. Smith & Co., Inc.

The contracting authority for this contract is The Stoddard County Commission.

**(3) PERIOD OF PERFORMANCE:** If the bid is accepted, the bidder agrees that work shall be diligently prosecuted at such rate and in such manner as, in the judgment of the engineer, is necessary for the completion of the work within the time specified as follows in accordance with Sec 108:

Calendar Days: 90 Calendar Days

Completion Date: March 31, 2017

The work for the project will have a 90 day window in which it is to be performed, with all work to be completed by the Completion Date.

**(4) LIQUIDATED DAMAGES:** The bidder agrees that, should the bidder fail to complete the work in the time specified or such additional time as may be allowed by the engineer under the contract, the amount of liquidated damages to be recovered in accordance with Sec 108 shall be as follows:

Liquidated damages per day calendar day past Completion Date: \$700.00

**BID SCHEDULE**

**ITEMIZED BID:** THE BIDDER SHOULD COMPLETE THE FOLLOWING SECTION IN ACCORDANCE WITH SEC 102.7. THE BIDDER PROPOSES TO FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THE WORK, AS FOLLOWS:

**Bid Items**

ITEM	DESCRIPTION	UNIT S	QTY	UNIT COST	SUBTOTAL
<b><u>Roadway Items</u></b>					
1	CLEARING AND GRUBBING	AC	0.5	\$ _____	\$ _____
2	CONSTRUCTION SIGNS	EA	5	\$ _____	\$ _____
3	TYPE III BARRICADE	EA	4	\$ _____	\$ _____
4	EMBANKMENT COMPACTED IN PLACE	CY	576	\$ _____	\$ _____
5	TYPE C CHAT SURFACE, 6" THICK	SY	874	\$ _____	\$ _____
6	18" POLYMER COATED CMP	LF	69	\$ _____	\$ _____
7	FLAP GATE FOR 18" CMP	EA	1	\$ _____	\$ _____
8	TYPE II ROCK DITCH CHECK	CY	4	\$ _____	\$ _____
9	TYPE C BERM	LF	294	\$ _____	\$ _____
10	SILT FENCE	LF	440	\$ _____	\$ _____
11	SEEDING AND MULCHING	AC	0.5	\$ _____	\$ _____
<b><u>Bridge Items</u></b>					
12	MOBILIZATION	LS	1	\$ _____	\$ _____
13	REMOVAL OF BRIDGE	LS	1	\$ _____	\$ _____
14	CLASS A EXCAVATION	CY	502	\$ _____	\$ _____
15	CLASS 1 EXCAVATION	CY	48	\$ _____	\$ _____
16	TYPE 5 COMPACTED GRANULAR FILL	CY	77	\$ _____	\$ _____
17	SEPERATION GEOTEXTILE	SY	555	\$ _____	\$ _____

18	TYPE 2 ROCK BLANKET	SY	468	\$	\$
19	14" CAST-IN-PLACE PILE	LF	420	\$	\$
20	CLASS B-1 CONCRETE (Substructure)	CY	18	\$	\$
21	CLASS B-2 CONCRETE (Superstructure Concrete on Box Girder)	SY	174	\$	\$
22	PRESTRESSED CONCRETE BOX BEAM (27"x36"x61'-11")	SF	1,486	\$	\$
23	REINFORCING STEEL	LB	3,763	\$	\$
24	BRIDGE GUARD RAIL (W-BEAM)	LF	150	\$	\$
25	GUARD RAIL END TERMINALS	EA	4	\$	\$
26	TYPE III OBJECT MARKER	EA	4	\$	\$

**TOTAL CONTRACT PRICE: \$**

(in words)

By

(signature)

(print)