



# City of Sugar Creek

103 South Sterling – Sugar Creek, Missouri 64054

## Addendum No. 4

November 19, 2012

RE: Lewis and Clark Expressway – Sterling Ave. Project  
Sugar Creek, Jackson County  
Federal Aid No.: DP-3400(408)

From: Charles E. Touzinsky, P.E.  
CDM Smith, Inc.  
9200 Ward Parkway, Suite 500  
Kansas City, MO 64114

Bid Date/Time is November 26, 2012 at 4:00 P.M. at the City of Sugar Creek, Missouri, City Hall

To: Plan Holders

This addendum forms a part of the Contract Documents and modifies the work. Acknowledge receipt of this addendum and submit with Proposal Form. Failure to do so may subject the Bidder to disqualification.

The Bidder shall acknowledge receipt of the Addendum and his acceptance of its conditions by signing the Addendum and submitting with Proposal

Bidder\_\_\_\_\_

By\_\_\_\_\_ Title\_\_\_\_\_

### PROJECT MANUAL

1. On the Concrete Paving Detail Sheet 1 of 3 (Plan Set Sheet No. 18) there is a discrepancy with the size of dowel bars in the Type D, Type E, and dowel basket details. In Type D and Type E details the dowel bar size is 1 1/4" and not 1 1/2". In the last special note the D depth is 8" and not 10". Attached to this addendum is a revised Concrete Detail Sheet 1 of 3 labeled 018\_001\_LCE\_Sterling\_CncDtl.PDF.
2. On Summary of Quantities Sheet 2 of 2 (Plan Set Sheet No. 3) there was a bust in the addition of 2" Type 3 Asphaltic Concrete (SY). The new total is 663.9 SY. This quantity has been updated in the Summary of Quantities Sheet 2 of 2 and the Itemized Bid Sheet. A revised Summary of Quantities Sheet 2 of 2 is included as 003\_002\_LCE\_Sterling\_BidSht.PDF.

Administrative Offices  
816- 252-4400  
FAX 252-7082

Police & Fire Departments  
816-252-7058  
FAX 461-3493

Public Works Department  
816-252-4413  
FAX 252-8843

Parks & Recreation Department  
816-833-0154  
FAX 252-7082

3. On Summary of Quantities Sheet 2 of 2 (Plan Set Sheet No. 3) there was an omission of Temporary Traffic Barrier (Contractor Furnished / Contractor Retained) and Relocated Temporary Traffic Barrier. Temporary Traffic Barrier is included on the maintenance of traffic sheets, but not quantified in the plans. These two items have been added to the Temporary Traffic Control table in the bottom right corner of the Summary of Quantities Sheet 2 of 2 and to the Itemized Bid Sheet.
4. Revised Itemized Bid Sheets, which includes the above referenced revisions, is attached as LCE\_Revised\_IBS\_Full.PDF
5. A revised Bid Bond form, which specifies that the City of Sugar Creek as the bond holder, is included as LCE\_Revised\_Bid\_Bond\_Form.PDF.
6. New Questions:
  - a. Q1 – Do roadways need to remain open to traffic during the installation of storm sewers? City Response: Access to and from the Buckeye fueling station (north of round-a-bout) and the City of Sugar Creek Police and Fire Station (off Standard Lane) needs to be maintained through construction. Kentucky can be closed with appropriate traffic control signing.
  - b. Q2 - I noticed some recently completed cores in the existing pavement. Is there a soils report with boring logs or core thicknesses available for use so we can determine what the existing pavement material and thickness is? City Response: We anticipate that the Contractor will find a combination of asphalt and concrete. The concrete is between 8” and 10” thick and the asphalt is 2” thick.
  - c. Q3 - Is it the intention for all new storm sewer and water line to be installed using the details shown in detail A - Trench detail on plan page #21? City Response: It is our intention that the installation of new storm sewer only use the trench detail on page #21.
  - d. Q4 - Is there a compaction requirement at the spoil sites or can the material just be spread without compaction efforts? City Response: All grading and compaction on the project needs to be done in accordance with the standard specifications.
  - e. Is the topsoil (pay item no. 95) quantity of 1,590 CY included in the Contractor Furnished Embankment quantity of 5,056 CY? Is all the topsoil pay item to be imported material? City Response: Contractor is to bid all quantities as listed in the Summary of Quantities tables and the Itemized Bid Sheets or as modified within addendums 1 through 4. Information concerning topsoil can be found in JSP N - Topsoil, Removal and Placement.
7. Attachments to this addendum are as follows:

Concrete Paving Detail Sheet 1 of 3 (Plan Set Sheet No. 18): 018\_001\_LCE\_Sterling\_CncDtl.PDF

Summary of Quantities Sheet 2 of 2 (Plan Set Sheet No. 3): 003\_002\_LCE\_Sterling\_QntSht.PDF

Revised Itemized Bid Sheets: LCE\_Revised\_IBS\_Full.PDF

Revised Bid Bond Form: LCE\_Revised\_Bid\_Bond\_Form.PDF

PAVEMENT									
SHEET	ROUTE	STATION	STATION	8" CONCRETE PAVEMENT 15' JT. SPC. (SY)	2" TYPE 3 ASPHALTIC CONCRETE (SY)	9" TYPE 1 ASPHALTIC CONCRETE (SY)	8" NRPCCP CONCRETE PAVEMENT (SY)	6" TREATED SUB- GRADE (SY)	REMARKS
8	STERLING AVENUE	10+00.0	11+22.92		491.4				OVERLAY MILLED SURFACE
8	STERLING AVENUE	10+24.71	11+22.92		32.3	32.3		63.7	FULL DEPTH ASPHALT WIDENING
8	STERLING AVENUE	11+01.08					53.2	53.2	CONCRETE DRIVE
8	STERLING AVENUE	11+62.67					24.7	24.7	CONCRETE DRIVE
8-9	STERLING AVENUE	11+22.92	19+00.0	3,261.1				4,003.5	INCLUDES RIGHT TURN LANE AT KENTUCKY AVENUE
8	STERLING AVENUE	14+15.95					185.8	185.8	CONCRETE DRIVE
8	STANDARD LANE	9+14.73	9+79.49	409.1				439.8	
8	PUTNAM STREET	10+19.90	11+00.0	303.4				336.7	
9	KENTUCKY AVENUE	5+18.04	7+15.18	856.5				995.2	
9	STERLING AVENUE	19+00.0	19+37.36		140.2				TEMPORARY TIE-IN
TOTALS				4,830.1	663.9	32.3	263.6	6,102.6	

PIPES AND FLARED END SECTIONS																	
FROM STRUCTURE NO.	STATION	TO STRUCTURE NO.	STATION	LOCATION	PLAN SHEET NO.	PROFILE SHEET NO.	CLASS III RCP				CONC. FLARED END SECTION		GEOTEXTILE FABRIC WRAP (SF)	HDHP GEO- MEMBRANE (SF)	UNCLASSIFIED EXCAVATION FOR PIPES (CY)	REMARKS	
							18 in. (LF)	24 in. (LF)	30in (LF)	36in (LF)	18 in. (EA)	30 in. (EA)					
CI 10A-3	10+77.66	CI 10A-2	9+70.16	STERLING AVE.	8	29	112								243		
CI 10A-2	9+70.16	FES 10A-1	9+05.42	STERLING AVE.	8	29	82				1	1121	1941	178			
GI 11-7	15+80.0	GI 11-6	15+84.40	STERLING AVE.	8	29	14							20			
GI 11-6	15+84.40	GI 11-5	16+29.69	STERLING AVE.	8	29	45							60			
GI 11-4	15+93.0	CI 11-3	16+40.0	STERLING AVE.	8	29	49							68			
CI 11-3	16+40.0	CI 11-2	16+40.0	STERLING AVE.	8	29	46							60			
CI 11-2	16+40.0	GI 11-5	16+29.69	STERLING AVE.	8	29	31					439	760	67			
GI 11-5	16+29.69	FES 11-1	16+12.0	STERLING AVE.	8	29	79			1	1119	1938	173				
GI 12B-2	6+35.76	CI 12B-1	5+98.54	KENTUCKY AVE.	9	29		52						69			
CI 12B-1	5+98.54	CI 12-2A	5+98.14	KENTUCKY AVE.	9	29		43						58			
GI 12A-1	5+87.20	CI 12-2A	5+98.14	KENTUCKY AVE.	9	29	56							97			
CI 12-2B	6+25.0	CI 12-2A	5+98.14	KENTUCKY AVE.	9	29		20						48			
CI 12-2A	5+98.14	GI 12-2	17+34.0	KENTUCKY/STERLING AVE.	9	29			241			4282	9320	1254			
GI 12-2	17+34.0	FES 12-1	17+37.88	STERLING AVE.	9	29			50	1	684	1206	251				
TOTALS							514	95	20	291	2	1	7645	15165	2646		

DROP INLETS																										
STRUCTURE NO.	PLAN SHEET NO.	PROFILE SHEET NO.	STATION	OFFSET	LOCATION	TYPE CI-2 5' X 3.25'		TYPE CI-2 5' X 3.75'		TYPE CI-2 8' X 5'		TYPE CI-2 11' X 3.25'		TYPE CI-2 11' X 5'		GRATE INLET 3' X 3'		GRATE INLET 4' X 4'		BEEHIVE TYPE GRATE INLET		3' X 3' GRATES & BEARING PLATES (EA)	4' X 4' GRATES & BEARING PLATES (EA)	UNCLASSIFIED EXCAVATION FOR STRUCTURE (CY)	PIPE OPENINGS AND SIZES	REMARKS
						BUILD DEPTH (FT)	PAY DEPTH (FT)	BUILD DEPTH (FT)	PAY DEPTH (FT)	BUILD DEPTH (FT)	PAY DEPTH (FT)	BUILD DEPTH (FT)	PAY DEPTH (FT)	BUILD DEPTH (FT)	PAY DEPTH (FT)	BUILD DEPTH (FT)	PAY DEPTH (FT)	BUILD DEPTH (FT)	PAY DEPTH (FT)							
CI 10A-2	8	29	9+70.16	36.74	STANDARD LN., LT.			9.02	9															11.4	2 @ 18"	
CI 10A-3	8	29	10+77.66	18.03	PUTNAM LT.							5.24	5											11.5	2 @ 18"	
GI 9-1	8	N/A	13+67	35.9	STERLING AVE., RT.																1					REMOVE C.I.; REPLACE WITH G.I.
GI 11-7	8	29	15+80	73.5	STERLING AVE., LT.														4.6	5				8.0	1 @ 18"	
GI 11-6	8	29	15+84	57.4	STERLING AVE., LT.														6.15	6				8.0	2 @ 18"	
GI 11-4	8	29	15+93	51.8	STERLING AVE., RT.											4.48	5					1		3.4	1 @ 18"	
CI 11-3	8	29	16+40	25.84	STERLING AVE., RT.	4.32	4																	4.9	2 @ 18"	
CI 11-2	8	29	16+40	23.13	STERLING AVE., LT.	6.03	6																	6.9	2 @ 18"	
GI 11-5	8	29	16+30	55.82	STERLING AVE., LT.											6.78	7					1		9.3	2 @ 18"	
GI 12-2	8	29	17+34	131	STERLING AVE., LT.													12.7	13				1	12.0	2 @ 36"	
CI 12-2A	9	29	5+98.14	17.62	KENTUCKY AVE., RT.								6.98	7										21.0	2 @ 18", 2 @ 30"	
CI 12-2B	9	29	6+25	17.76	KENTUCKY AVE., RT.					6.48	7													14.9	1 @ 30"	
GI 12A-1	9	29	5+87	76	KENTUCKY AVE., RT.											4.5	5					1		0.0	1 @ 18"	
CI 12B-1	9	29	5+98.54	29.43	KENTUCKY AVE., LT.	5.62	6																	6.4	2 @ 18"	
GI 12B-2	9	29	6+36	77.87	KENTUCKY AVE., LT.											9.25	9					1		0.0	1 @ 18"	
TOTALS							16		9		7		5		7		26		13		11	5	1	118		

SIDEWALK, CURB RAMP AND TRUNCATED DOMES									
SHEET	STA.	TO STA.	LOCATION	OFFSET	4" CONC. SIDEWALK (SY)	CONC. CURB RAMP (SY)	DETECTABLE WARNING (SF)	4" CONC. PVM'T. & BASE (SY)	REMARKS
8	10+24.71	14+13.95	STERLING	LEFT	220.27				
8	11+17.16	11+56.32	STERLING	RIGHT	21.68				
8	11+69.03	14+20.14	STERLING	RIGHT	141.44				
8	14+44.59	15+05.55	STERLING	RIGHT	25.91	5.04	10.0		
8	9+35.47	9+36.49	STANDARD	RIGHT	14.95				
8	9+15.23	9+35.47	STANDARD	RIGHT		14.40			
8	9+21.52	9+32.47	STANDARD	RIGHT			23.3		
8	9+04.47	9+15.23	STANDARD	RIGHT	5.18				
8	10+93.51	11+00.15	STANDARD	LEFT		2.64	14.0		
8	14+71.32	14+73.63	STERLING	LEFT			27.6		
8	14+71.32	14+78.20	STERLING	LEFT		9.92		10.91	
8-9	14+78.20	18+52.49	STERLING	LEFT	240.40			461.52	
TOTALS					669.8	32.0	74.9	472.4	

SIGNING				
SHEET	STA.	OFFSET	LOCATION	R1-1b "STOP" 30"x30" (EACH)
8	9+13.23	19.74' RT	STANDARD	1
8	10+47.39	38.80' LT	PUTNAM	1
9	17+83.06	35' RT	STERLING	1
9	5+64.84	30' LT	KENTUCKY	1
9	18+81.96	25' LT	STERLING	1
SUBTOTALS				5
TOTALS				5

CONSTRUCTION SIGNS					
SIGN	SIZE	AREA	QTY	TOTAL AREA	DESCRIPTION
	(IN)	(SF)			
W020-1	48X48	16	5	80	ROAD/BRIDGE/RAMP WORK AHEAD
G020-2	48X24	8	4	32	END ROAD WORK
R1-2	48X48	13.25	3	39.75	STOP
R11-2	48X30	10	4	40	ROAD CLOSED
TOTAL				192	

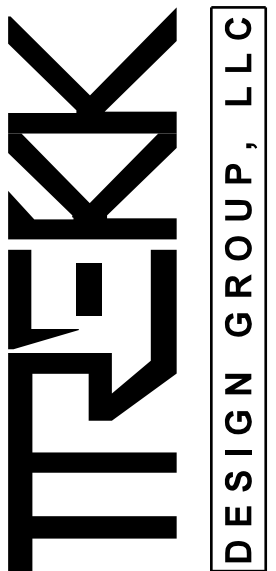
TEMPORARY TRAFFIC CONTROL	
TOTAL QTY	DESCRIPTION
29	CHANNELIZERS
10	TYPE III MOVABLE BARRICADE
1592	TEMPORARY TRAFFIC BARRIER (CONTRACTOR FURNISHED/CONTRACTOR RETAINED)
1290	RELOCATE TEMPORARY TRAFFIC BARRIER

STATE OF MISSOURI  
REGISTERED  
TRENT S. ROBINSON  
NUMBER  
E-2001012107  
PROFESSIONAL ENGINEER

DATE 10-25-2012	SHEET NO. 3
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4441 East 104th St., Suite 105  
Kansas City, MO 64131  
Tel (816) 874-4655  
Fax (816) 874-4675  
[www.trekdesigngroup.com](http://www.trekdesigngroup.com)

Missouri Cert. of  
Authority 2002010300



DATE	DESCRIPTION
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**Lewis & Clark**  
EXPRESSWAY

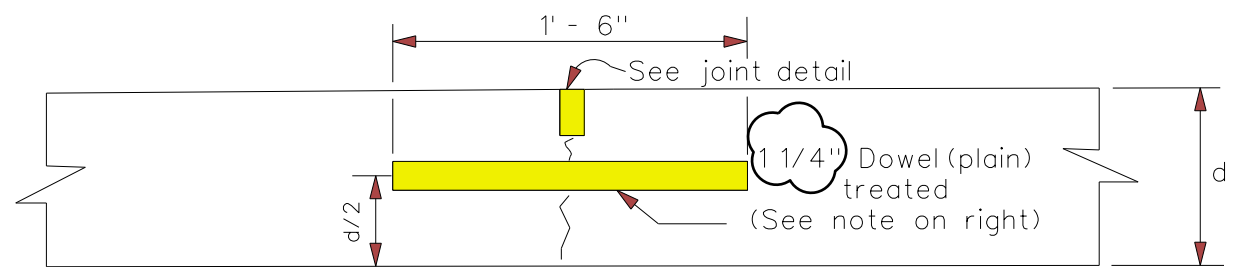
SUGAR CREEK, MISSOURI  
FEDERAL AID NO. DP-3400(408)

SUMMARY OF  
QUANTITIES

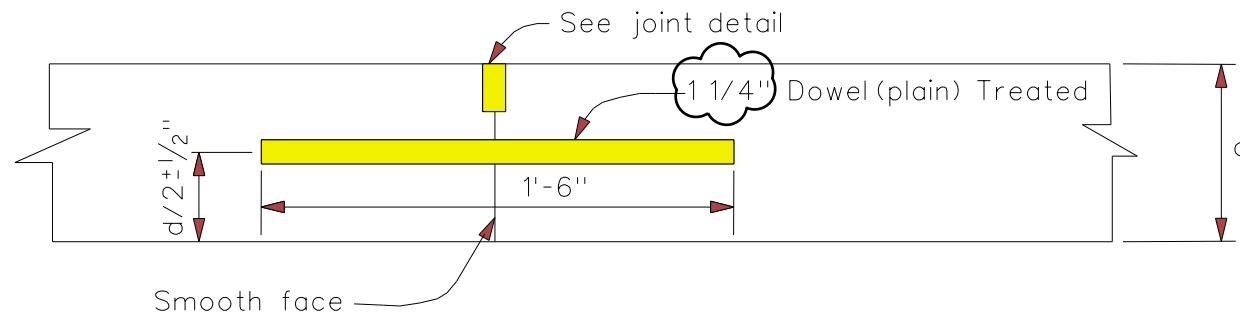
SHEET 2 OF 2

SHEET 2 OF 2

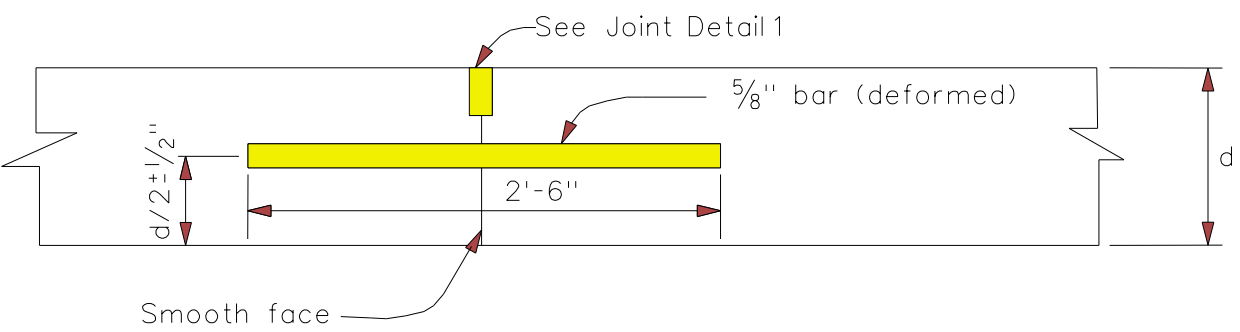
P:\105250 Lewis & Clark - Phase 2\Microstation\FINAL PLANS\Phase 1\250\_ConcreteDetail\_01.dgn



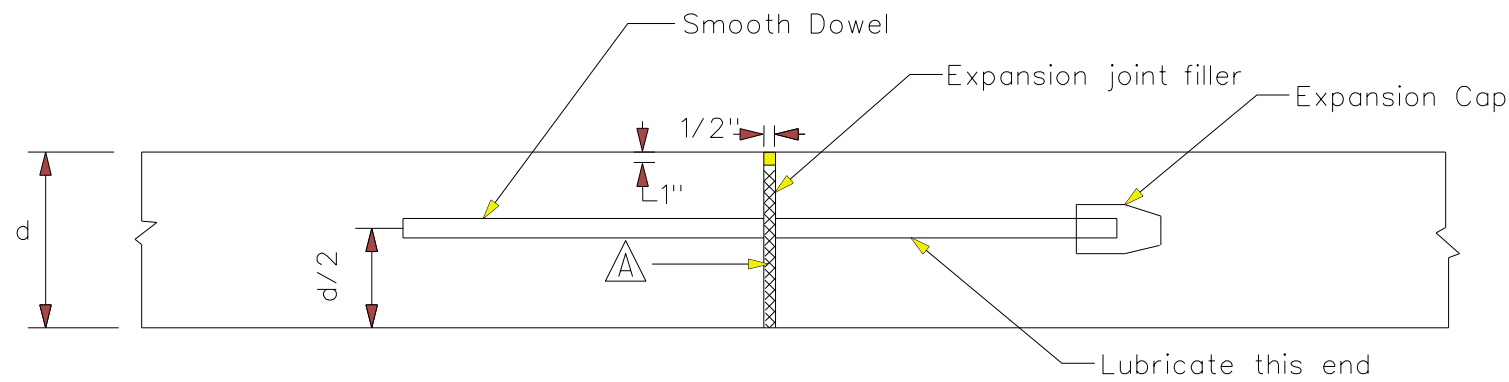
TYPE D TRANSVERSE CONTRACTION JOINT



TYPE E TRANSVERSE CONSTRUCTION JOINT



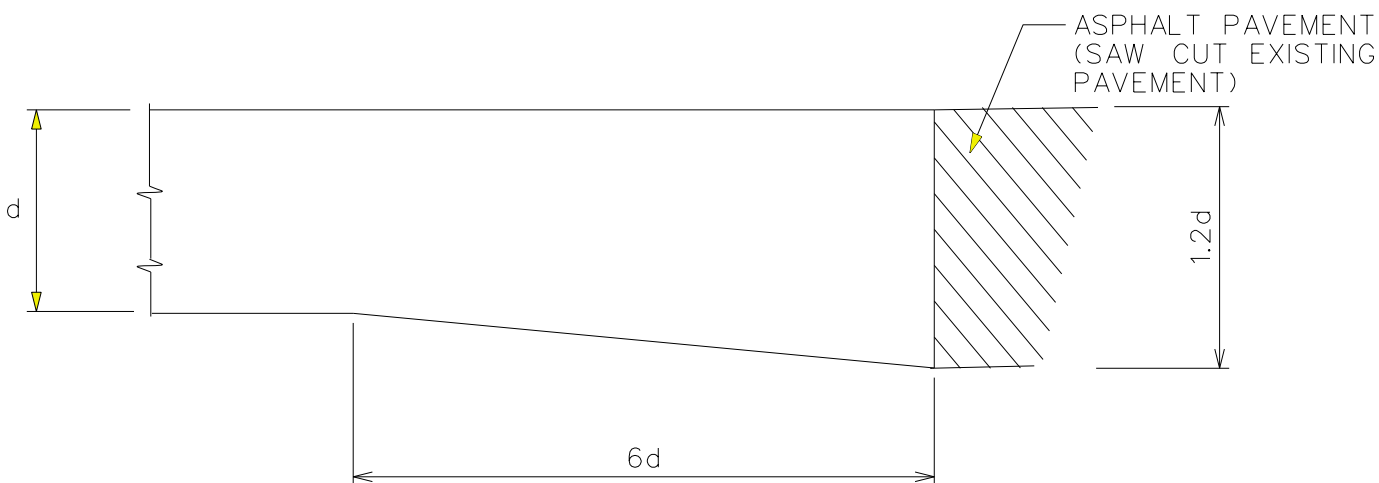
LONGITUDINAL CONSTRUCTION JOINT



▲ Preformed Expansion Joint Filler (Per section 702.03A of Standard Specifications. (Cost of Expansion Joint Material shall be included in contract unit price for Concrete Pavement.)

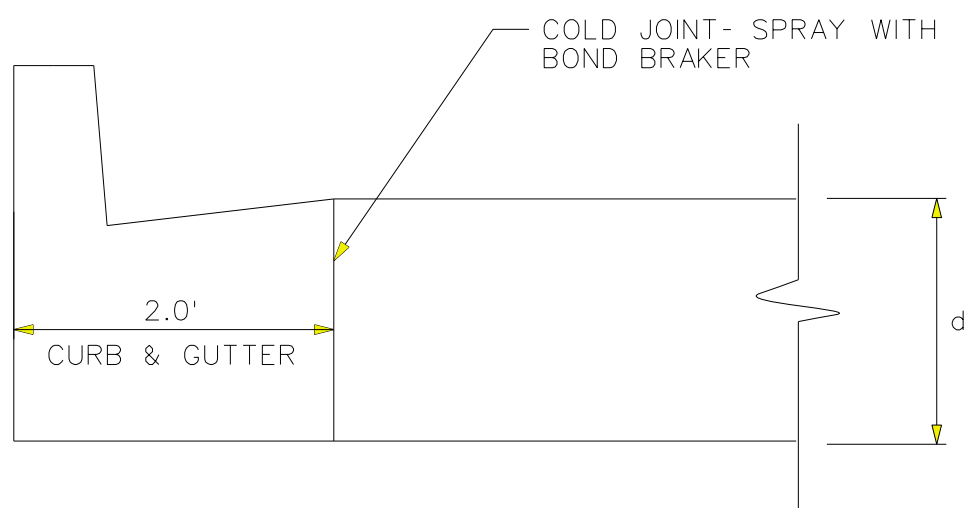
Expansion cap must be long enough to cover 2" (min.) of the dowel and should provide a watertight fit. Lubricate capped end of the dowel to prevent bond. Capped end of dowel should alternate from left to right side of joint. Filler Material shall allow 50% compression and non shrinking, non absorbant, non reactive, non extruding and flexible.

TYPE A DOWELED AND CAPPED EXPANSION JOINT

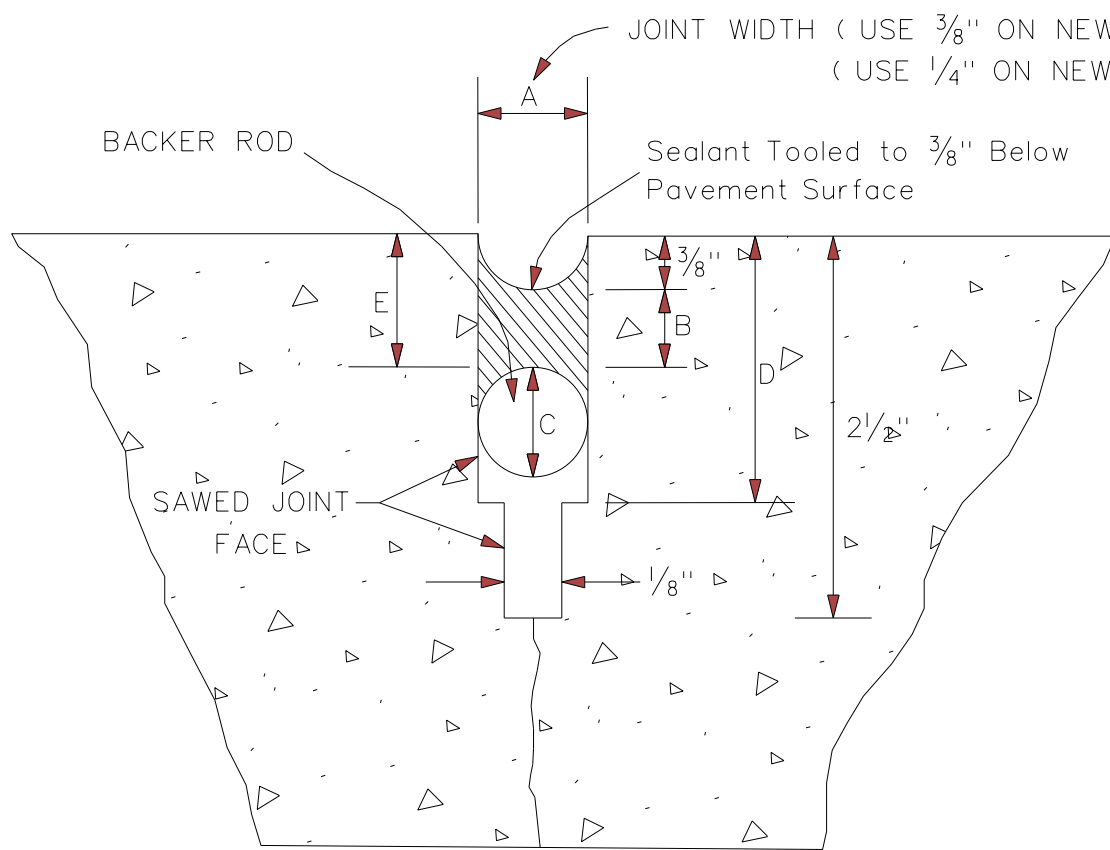


Where Thickened edge joints abuts concrete pavement, provide a 1" wide expansion joint with Filler Material and Sealant.

THICKENED EDGE CONSTRUCTION JOINT

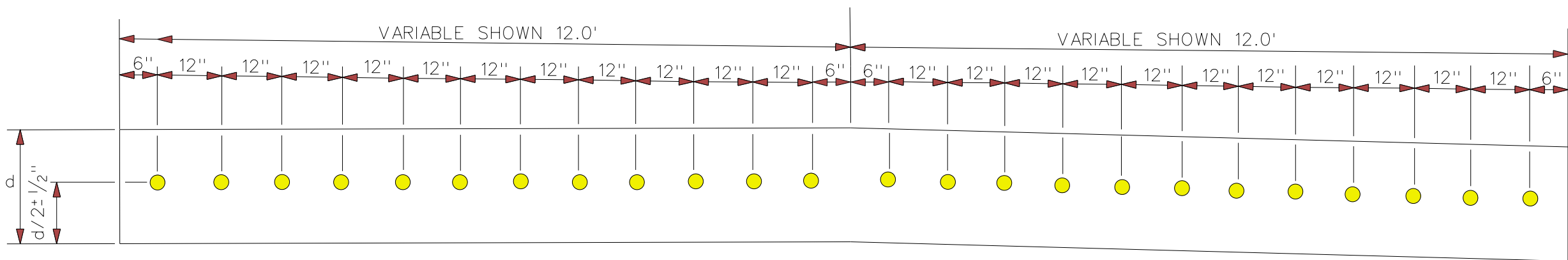


CURB AND GUTTER JOINT

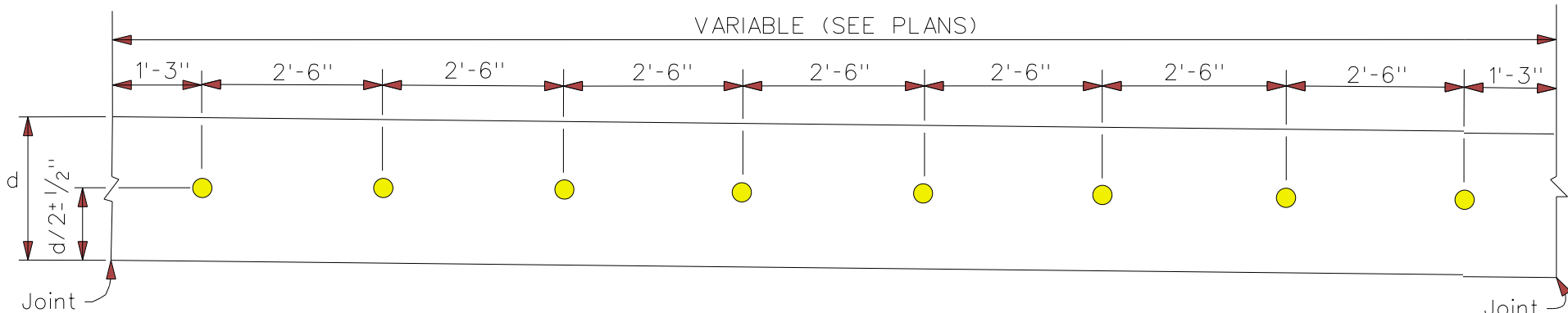


DETAIL OF TRANSVERSE CONSTRUCTION AND CONTRACTION JOINTS & LONGITUDINAL CONSTRUCTION AND CONTRACTION JOINTS

ESTIMATING REQUIREMENTS				
A JOINT WIDTH INCHES	B SEALANT BEAD THICKNESS INCHES	C BACKER ROD DIAMETER INCHES	D RESERVOIR DEPTH INCHES	E BACKER ROD PLACEMENT DEPTH INCHES
1/4	1/4	3/8	1	1/2
3/8	1/4	1/2	1 1/4	1/2
1/2	1/4	5/8	1 1/4	1/2
5/8	5/16	3/4	1 1/2	9/16
3/4	5/8	7/8	1 3/4	7/8
7/8	7/16	1	1 3/4	11/16
1	1/2	1 1/8"	2	3/4

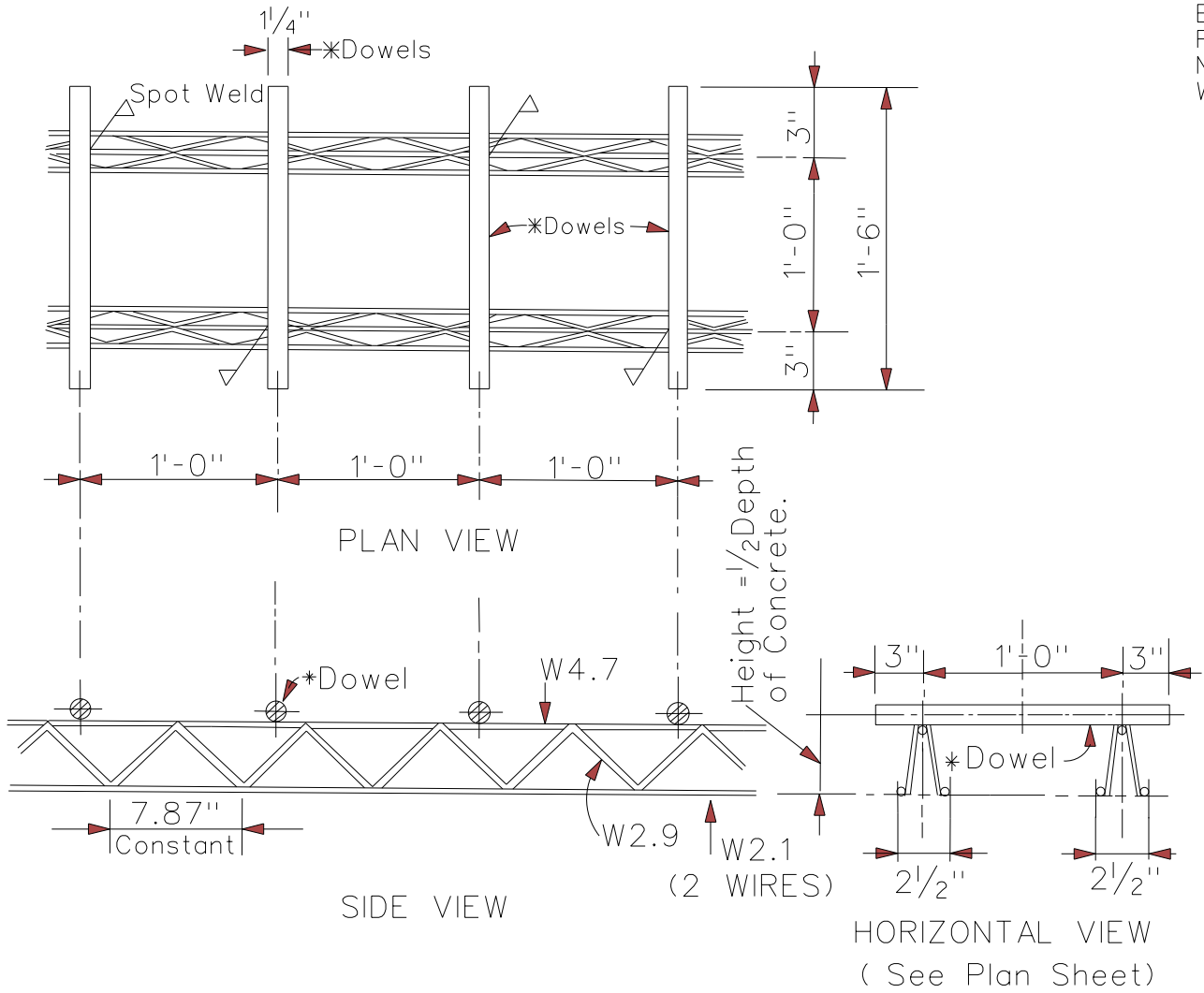


FOR TRANSVERSE CONTRACTION OR CONSTRUCTION JOINTS



FOR LONGITUDINAL CONTRACTION & CONSTRUCTION JOINTS

NOTE : CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF METAL BICYCLE HANDRAIL AND CONCRETE INSERTS IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (LATEST EDITION). DESIGN TO BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION OF CONCRETE RAILING WALL. METAL BICYCLE HANDRAIL DETAILS SHALL BE COORDINATED WITH DETAILS OF RAIL ON ADJACENT STRUCTURES.



NOTE: This detail is an example for dowel assemblies. Other similar assemblies may be used upon approval from the Construction Engineer.

※1/4" Smooth Dowel Bar  
18' Long - Spaced 12" O.C.  
Assembly to be Securely Anchored to Base Course as Approved by Engineer.

GENERAL NOTES:

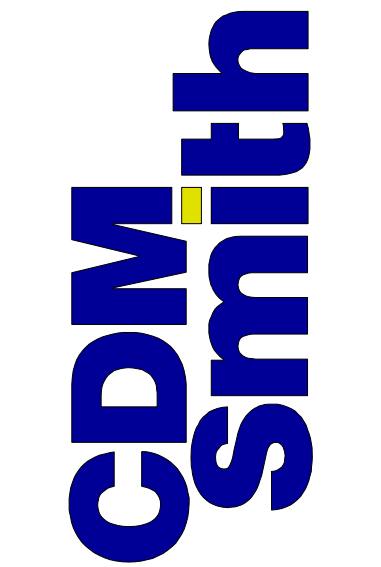
- All transverse contraction joints shall be doweled as shown.
- Dowel bars across contraction joints must be held accurately in position perpendicular to the plan of the cross section of the pavement with supports satisfactory to the engineer.
- Tie bars for longitudinal contraction center joints shall be spaced as shown and placed by methods approved by the engineer.
- Payment for expansion, contraction, and longitudinal joints - including dowels and accessories - will be included in the contract unit price for concrete pavement.
- Portland cement concrete pavement on auxiliary lanes and tapers shall be of the same thickness as the main line.

SPECIAL NOTES:

- Initial saw depths for longitudinal and transverse contraction joints shall be 2 1/2" as shown. Sawing of all transverse and longitudinal joints will be mandatory.
- Following initial saw depths the longitudinal and transverse joints shall be sawed to the width and depth specified in the table at left indicated as "A" width and "D" depth.
- Edging of longitudinal joints is not required.
- Depth of paving "d" for portland cement concrete pavement is 8".



DATE 11-08-12 SHEET NO. 18



DESCRIPTION
REVISED SIZE OF REBAR FOR TRANSVERSE JOINTS.
REVISED DEPTH OF PAVEMENT (8")

Lewis & Clark  
EXPRESSWAY

SUGAR CREEK, MISSOURI  
FEDERAL AID NO. DP-3400(408)

LEWIS AND CLARK  
CONCRETE PAVING DETAIL  
SHEET 1 OF 3

BID BOND  
KNOW ALL PERSONS BY THESE PRESENTS, that we \_\_\_\_\_

as principal and \_\_\_\_\_  
as surety, are held and firmly bound unto the City of Sugar Creek, Missouri in the penal sum  
of \_\_\_\_\_ Dollars (\$) to be paid to the City of Sugar Creek, Missouri to be credited to the  
general revenue fund, the principal and surety binding themselves, their heirs, executors, administrators, successors, and  
assigns, jointly and severally, firmly by these presents.

Sealed with our seals and dated this \_\_\_\_\_

THE CONDITION OF THIS OBLIGATION is such that

WHEREAS the principal is submitting herewith a bid to the City of Sugar Creek, Missouri on route(s)  
in \_\_\_\_\_ County(ies),  
project (s) \_\_\_\_\_  
for construction or improvement of state highway as set out in said bid;

NOW THEREFORE, if the City of Sugar Creek, Missouri shall accept the bid of the principal and if the  
principal shall properly execute and deliver to the commission the contract, contract bond, and evidence of insurance  
coverage in compliance with the requirements of the bid, the specifications, and the provisions of section 227.100 RSMo, to  
the satisfaction of the City of Sugar Creek, Missouri, then this obligation shall be void and of no effect, otherwise to remain  
in full force and effect.

In the event the said principal shall, in the judgment of the commission, fail to comply with any requirement as  
set forth in the preceding paragraph, then the City of Sugar Creek, Missouri, shall immediately and forthwith be entitled to  
recover the full penal sum above set out, together with court costs, attorney's fees, and any other expense of recovery.

The principal and surety hereby certify that the document is the original or a verbatim copy of the bid bond  
form furnished by the City of Sugar Creek, Missouri, in accordance with Sec 102.9 of the Missouri Standard Specifications  
for Highway Construction.

SEAL

\_\_\_\_\_  
Principal

By \_\_\_\_\_  
Signature

\_\_\_\_\_  
Surety

SEAL

By \_\_\_\_\_  
Signature of Attorney in Fact

NOTE: This bond must be executed by the principal, and by a corporate surety authorized to conduct surety business in the  
state of Missouri.

Bid Items: Project: Sterling Avenue Breakout

Federal Project Number DP - 3400 (408)

Base Bid					
Item No.	Item Description:	Unit	Quantity	Unit Price	Total
BB-1	Mobilization	LS	1		
BB-2	Removal of Improvements	LS	1		
BB-3	Construction Staking	LS	1		
BB-4	Clearing and Grubbing	AC	0.04		
BB-5	Unclassified Excavation	CY	1755		
BB-6	Contractor Finished Embankment	CY	5056		
BB-7	Linear Grading - Type 1	0.1 STA	48.5		
BB-8	Cold Milling (2" Depth)	SY	491		
BB-9	6" Flyash Treated Base	SY	6102.6		
BB-10	9" Type 1 Asphaltic Concrete	SY	32.3		
BB-11	2" Type 3 Asphaltic Concrete	SY	663.9		
BB-12	4" Concrete Sidewalk	SY	669.8		
BB-13	4" Concrete Pavement & Base	SY	555.5		
BB-14	Flagstone Walk	SF	560		
BB-15	8" Concrete Pavement - 15' Joints	SY	4896.3		
BB-16	8" Concrete Pavement (Driveway)	SY	263.6		
BB-17	8" Concrete Pavement (Parking Lot)	SY	489		
BB-18	Exposed Aggregate Pavement - Type 2	SF	882		
BB-19	Curb and Gutter (CG-1)	LF	2500		
BB-20	Flush Curb	LF	108		
BB-21	Colored Concrete Curb (8" x 12")	LF	83		

BB-22	Concrete Curb Ramps	SY	44.5		
BB-23	Detectable Warnings	SF	114.9		
BB-24	Acess Control Posts	EA	2		
BB-25	Timber Guardrail (For Trail)	LF	412		
BB-26	Guard Rail - Type "A"	LF	75		
BB-27	End Anchor Section	EA	2		
BB-28	Class 3 RCP 18"	LF	521		
BB-29	Class 3 RCP 24"	LF	95		
BB-30	Class 3 RCP 30"	LF	20		
BB-31	Class 3 RCP 36"	LF	274		
BB-32	Concrete Flared End Section 18"	EA	2		
BB-33	Concrete Flared End Section 36"	EA	1		
BB-34	Type CI-2, 5' x 3.25'	LF	16		
BB-35	Type CI-2, 5' x 3.75.	LF	9		
BB-36	Type CI-2, 8' x 5'	LF	7		
BB-37	Type CI-2, 11' x 3.25'	LF	5		
BB-38	Type CI-2, 11' x 5'	LF	7		
BB-39	Grate Inlet, 3' x 3'	LF	26		
BB-40	Grate Inlet, 4' x 4'	LF	13		
BB-41	Beehive Grate Inlet (18") & Grate	LF	11		
BB-42	Replace Curb Inlet With Grate Inlet (3' x 3')	EA	1		
BB-43	Grate and Bearing Plate, 3' x 3'	EA	4		
BB-44	Unclassified Excavation For Pipes	CY	2646		



BB-45	Unclassified Excavation for Structures	CY	118		
BB-46	Geotextile (8 oz/Sq YD)	SF	7645		
BB-47	Geomembrane (60 mil, HDPE)	SF	15165		
BB-48	Silt Fence	LF	1530		
BB-49	Ditch Check	EA	3		
BB-50	Inlet Protection	EA	13		
BB-51	Rock Blanket	SF	977		
BB-52	Stop Sign - R1-1b - 30" x 30"	EA	5		
BB-53	Trail Signs	EA	8		
BB-54	Accesible Parking Sign - R7-8 - 12" x 18"	EA	1		
BB-55	4" Solid White Pvm't Marking - Epoxy	LF	2437.4		
BB-56	4" Solid Yellow Pvm't Marking - Epoxy	LF	1950		
BB-57	24" Solid Yellow Pvm't Marking (Preformed)	LF	239.3		
BB-58	24" solid White Pvm't Marking (Preformed)	LF	65		
BB-59	4" Solid Yellow Pvm't Marking - Thermo (boll)	LF	40		
BB-60	Right Turn Symbol	EA	2		
BB-61	Left Turn Symbol	EA	5		
BB-62	Handicapped Parking Symbol	EA	1		
BB-63	Temporary Construction Signs	SF	192		
BB-64	Channelizers	EA	29		
BB-65	Type III Movable Barricade	EA	10		
BB-66	Type "A" Decorative 250 Watt Light Fixture & Lamp	EA	12		
BB-67	Type "A" Pole (L6J-30.0'), 17' Conc. Base & M6J Arm	EA	12		



BB-68	1 #10 RHW/USE Internal Pole Wire	LF	1100		
BB-69	2 #4 RHH/RHW/USE, 1 #4 CU GND	LF	4000		
BB-70	2" Sched. 40 PVC cond. for Circuit #1 & #2	LF	1500		
BB-71	1 #6 AWG Bare Copper Wire	LF	100		
BB-72	4 Circuit Lighting Controller	EA	1		
BB-73	Ground Rod	EA	13		
BB-74	Fuse Kits ( Street Lighting)	EA	24		
BB-75	Non-fused Fuse Kits	EA	12		
BB-76	ID Tag	EA	13		
BB-77	Concrete Foundations for Lighting Controller	EA	1		
BB-78	Concrete Foundations for Light Fixture Type "A"	EA	12		
BB-79	Pull Box	EA	1		
BB-80	ITEM NUMBER NOT USED				
BB-81	Removal of Existing Decorative Light Poles on Sterling Ave.	EA	9		
BB-82	Trench & Backfill (Street Lighting)	LF	1400		
BB-83	Decorative Aggregate (4" Depth)	SF	1385		
BB-84	Steel edging	LF	1112		
BB-85	Shovel cut edging	LF	503		
BB-86	Shade trees (3" caliper)	EA	15		
BB-87	Shade trees (2.5" caliper)	EA	47		
BB-88	Shade trees (2.0" caliper)	EA	6		
BB-89	Evergreen trees (6' height)	EA	14		
BB-90	Shrubs (5 gallon container)	EA	136		

BB-91	Perennials (1 gallon container)	EA	2089		
BB-92	Non-native lawn seeding	AC	0.86		
BB-93	Bonded fiber matrix	SY	4162		
BB-94	Non-native lawn sodding	SY	5036		
BB-95	Topsoil (6" depth)	CY	1590		
BB-96	Stone veneer assemblies	SFF	1203		
BB-97	Concrete construction	CY	195		
BB-98	Stone wall caps - radius (18" wide)	LF	460		
BB-99	Stacked stone retaining walls	SF	680		
BB-100	Monument sign panel - text not included (stone; 2x10x4" thick)	EA	1		
BB-101	#10 RHW/USE Internal pole wire	LF	900		
BB-102	Type 'A2' Decorative 175 Watt Light Fixture & Lamp	EA	1		
BB-103	Type 'A2' 20' Pole, 18" Concrete Base & M6J Arm	EA	1		
BB-104	5/8" x 8' Copper Clad Ground Rod	EA	20		
BB-105	Fuse Kit (9-11 Memorial)	EA	1		
BB-106	Type 'B' Decorative 100 Watt Acorn Style Light Fixture & Lamp	EA	10		
BB-107	Type 'B' 14' Pole, 18" Concrete Base	EA	10		
BB-108	Type 'C' Micro LED Flood Light	EA	2		
BB-109	Type 'C', 18" Concrete Base	EA	2		
BB-110	Type 'G' Fixture, 7" LED Bollard with Ballast & Factory Wiring	EA	8		
BB-111	Type 'G' 18" Concrete Base	EA	8		
BB-112	Type 'H' Fixture, In-Grade Flood with Ballast & Factory Wiring	EA	3		
BB-113	Type 'J' Fixture, Panel Edge Light with Ballast & Factory Wiring	EA	8		

BB-114	Type 'K' Fixture, In-Grade Spot with Ballast & Factory Wiring	EA	2		
BB-115	In-Grade Electrical Box with Terminal Strip & Ballast Space	EA	1		
BB-116	Concrete base for parking lot light fixture and pedestrian light fixture	EA	13		
BB-117	Trench & Backfill (9-11 Memorial)	LF	1140		
BB-118	2" Schedule 40 PVC Conduit for Circuit 3 & 4	LF	1140		
BB-119	2" Schedule 40 PVC Conduit Elbows for Circuit 3 & 4	EA	23		
BB-120	1" Schedule 40 Conduit at Memorial	LF	200		
BB-121	#4 RHH/RHW/USE	LF	3200		
BB-122	1#4 CU Ground Conductor	LF	1600		
BB-123	Duplex receptacles at Memorial	EA	4		
BB-124	Yard Hydrants	EA	3		
BB-125	Water Service Vault (Detail 2)	LS	1		
BB-126	3/4" CW Pipe	LF	470		
BB-127	Horizontal Bore Under Street	LF	110		
BB-128	Trench & Backfill (Water Line)	LF	360		
BB-129	"Missouri Red" Granite "11 September 2012" Slab	EA	1		
BB-130	"Missouri Red" Granite "Somerset County" Monument	EA	1		
BB-131	Curved, Polished "Virginia Mist" Black Granite Seats	EA	2		
BB-132	18" Diameter "Virginia Mist" Black Granite Seat	EA	1		
BB-133	Engraved "Missouri Red" Granite Pentagonal Flag Design	EA	1		
BB-134	Pentagonal Stainless Steel	EA	1		
BB-135	Stainless Steel Artifact Support	EA	1		
BB-136	Glass Slabs in Stainless Steel Frames	EA	4		

BB-137	"One" and "Two World Trade Center" Stainless Steel Letters in Concrete	EA	2		
BB-138	(DG-2) Dark Gray Perimeter Curbs Including One 4' Long Curb for Large Granite Slab	LF	74		
BB-139	(DG-2) Dark Gray Seat Walls (Includes Two Curved Walls and One Circular)	LF	25		
BB-140	(DG-1) Dark Gray Walk Surface with Mirror and Dark Aggregate	SF	700		
BB-141	(W-1) White Base Surfaces for Bldg. Footprints, Glass Bases & pentagon	SF	145		
BB-142	Temporary Traffic Barrier (Contractor Furnished/Contractor Retained)	LF	1592		
BB-143	Relocated Temporary Traffic Barrier	LF	1290		

Total Price (Base Bid) \$\_\_\_\_\_

Add Alternate A					
Item No.	Item Description:	Unit	Quantity	Unit Price	Total
AA-1	Bench (5 foot)	EA	2		
AA-2	Trash receptacle	EA	1		
AA-3	Concrete Pavement & Base (4 inch)	SY	12.2		

Total Price (Add Alternate A) \$\_\_\_\_\_

Add Alternate B					
Item No.	Item Description:	Unit	Quantity	Unit Price	Total
AB-1	Drinking fountain (jug filler, hose bib, cover, template)	EA	1		
AB-2	Concrete Pavement & Base (4 inch)	SY	6.5		
AB-3	Steel Edging	LF	26		
AB-4	Perennials (1 gallon container)	EA	20		
AB-5	3/4" CW Pipe	LF	25		
AB-6	Trench & Backfill	LF	25		

Total Price (Add Alternate B) \$\_\_\_\_\_

<b>Add Alternate C</b>					
Item No.	Item Description:	Unit	Quantity	Unit Price	Total
AC-1	Shelter (20x28)	LS	1		
AC-2	Concrete Pavement & Base (4 inch)	SY	115		
AC-3	Trash Receptacle	EA	1		
AC-4	Stone Veneer Assemblies	SFF	99		
AC-5	Concrete Construction	CY	8		
AC-6	Stone Wall Caps - Straight (18" Wide)	LF	40		
AC-7	Decorative Aggregate (4" Depth)	SF	41		
AC-8	Steel Edging	LF	50		
AC-9	Type 'D' Fixture LED Uplight in Shelter Structure	EA	4		
AC-10	#10 THWN In Shelter For Illumination	LF	280		
AC-11	3/4" RGS Surface Wiring Conduit	LF	80		
AC-12	Malleable Iron Boxes & Covers with Threaded Openings	EA	8		
AC-13	2" Schedule 40 PVC Conduit for Circuit #5 Addition	LF	100		
AC-14	2" Schedule 40 PVC Conduit Elbows for Circuit #5 Addition	EA	4		
AC-15	NEMA 5-20 R Receptacles with 4-Plex Weather Proof Cover	EA	8		
AC-16	#10 THWN In Shelter For Receptacles	LF	60		
AC-17	2" Schedule 40 PVC Conduit for Circuit #4 Addition	LF	30		
AC-18	2" Schedule 40 PVC Conduit Elbows for Circuit #4 Addition	EA	2		
AC-19	#4 RHH/RHW/USE	LF	340		
AC-20	1#4 CU Ground Conductor	LF	170		

AC-21	Trench & Backfill	LF	160		
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Total Price (Add Alternate C) \$\_\_\_\_\_

Add Alternate D					
Item No.	Item Description:	Unit	Quantity	Unit Price	Total
AD-1	Picnic tables	EA	3		

Total Price (Add Alternate D) \$\_\_\_\_\_

Add Alternate E					
Item No.	Item Description:	Unit	Quantity	Unit Price	Total
AE-1	Pedestrian bridge to police/fire station (8' clear x 80' long; pratt truss; wood decking; abutments)	EA	1		
AE-2	Concrete Pavement & Base (4 inch)	SY	203		
AE-3	Access Control Posts	EA	1		
AE-4	Pavement Marking - 4" Yellow (Thermo)	LF	20		
AE-5	Concrete Curb Ramp (6 inch)	SY	3.5		
AE-6	Detectable Warnings	SF	20		
AE-7	Concrete Construction	CY	4.3		
AE-8	Handrail	LF	33		
AE-9	Silt Fence	LF	275		
AE-10	Non-native Lawn Seeding	ACRE	0.22		
AE-11	Bonded Fiber Matrix	SY	1080		
AE-12	Topsoil (6 inch Depth)	CY	180		
AE-13	Type 'B' Decorative 100 Watt Acorn Style Light Fixture & Lamp	EA	3		
AE-14	Type 'B' 14' Pole, 18" Concrete Base	EA	3		

AE-15	3 #10 RHW/USE Internal Pole Wire	LF	180		
AE-16	5/8" x 8' Copper Clad Ground Wire	EA	3		
AE-17	Type 'F' Fixture, Bridge Rail Lighting with Factory L.V. Wiring	EA	20		
AE-18	In-Grade Electrical Box with Terminal Strips & Ballast Space	EA	1		
AE-19	2" Schedule 40 PVC Conduit for Circuit #3 Addition	LF	290		
AE-20	2" Schedule 40 PVC Conduit Elbows for Circuit #3 Addition	EA	8		
AE-21	#4 RHH/RHW/USE	LF	330		
AE-22	1 #4 CU Ground Conductor	LF	165		
AE-23	Trench & Backfill	LF	210		

Total Price (Add Alternate E) \$ \_\_\_\_\_