

**LACLEDE'S LANDING STREETSCAPE IMPROVEMENTS
FIRST AND SECOND STREETS
Federal Project Number: STP-5401(554)**

**ADDENDUM #1 TO BID DOCUMENTS
Issuance Date: December 17, 2012**

Bid Opening Date: December 21, 2012

Changes to Appendix K of the Request for Bid:

Appendix K, **Applicable Federal Wage Rates** is hereby deleted in its entirety and replaced with the updated version found at Attachment 1.

Changes to the Job Special Provisions of the Request for Bid:

JSP 24 is hereby deleted in its entirety and replaced with the revised version found at Attachment 2.

Drawing Changes:

On **Drawings C11 and C12**, the cross section dimensions shall be amended as follows:

2" minimum locking sand
4" minimum 3/4 inch clean rock
18" maximum 1-1/2 to 2" clean rock

The Contractor is to measure the depth of the largest cobblestones during the removal, sorting and storage phase. If there are cobblestones that need to be re-used that are deeper than the noted 8" inch depth on the cross sections, then the locking sand layer will need to be increased in depth to allow the required 2" minimum depth below the deepest cobblestones and the 1- 1/2 to 2" clean rock layer will need to be reduced in depth the same amount such that the overall excavation depth will meet the 30" minimum required at the curb lines for frost protection.

Clarification to Drawings:

On **Drawings C13 through C16**, the notes under the heading WATER GENERAL NOTES stand as written. Under this language, the Contractor is required to contact each private property owner and offer the owner an opportunity to have new service lines run from the property line into his building, subject to negotiation of an acceptable price for which the owner is fully responsible, payment being made outside this contract. If an acceptable price cannot be negotiated as a result of a good faith effort, the Contractor is neither required under the conditions of this contract to do any installation on private property nor is the Contractor required to coordinate or accommodate the owner's installation of these private property service

lines by others. However, in all his dealings with property owners, the Contractor needs to adhere to the provisions of Section 32 of the LCRA GENERAL PROVISIONS.

Supplemental Information to Bidders:

- As Attachment 3, twelve boring logs are provided as an indication of subsurface conditions under the cobblestone streets.
- The following information is provided as to the availability and conditions relating to the use of vacant land for cobblestone storage and construction staging purposes. A vacant lot is available at Lucas and Leonor K. Sullivan Boulevard with its entrance off Lucas one half block east of First Street. The owner indicates her willingness to lease this land at \$3,000 per month subject to the lessee being insured and to the condition that the lot be returned to its original condition subsequent to its use during construction. Any lease agreement and storage site remediation work will become the responsibility of the Contractor with its payment covered under Bid Item 15 “Cobblestone Removal, Store and Replace...”.

APPENDIX K

**APPLICABLE
FEDERAL
WAGE
RATES**

General Decision Number: MO120001 11/30/2012 MO1

Superseded General Decision Number: MO20100001

State: Missouri

Construction Types: Heavy and Highway

Counties: Missouri Statewide.

HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/06/2012
1	01/13/2012
2	02/03/2012
3	03/02/2012
4	04/06/2012
5	05/04/2012
6	06/01/2012
7	06/15/2012
8	07/06/2012
9	10/19/2012
10	11/30/2012

CARP0002-002 05/01/2010

ST. LOUIS COUNTY AND CITY

	Rates	Fringes
Carpenters.....	\$ 32.78	12.25

CARP0005-006 04/01/2008

CASS (Richards-Gebauer AFB ONLY), CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Carpenters:		
CARPENTERS & LATHERS.....	\$ 33.00	12.03
MILLWRIGHTS & PILEDRIVERS...	\$ 33.00	12.03

CARP0011-001 05/01/2011

	Rates	Fringes
Carpenter and Piledriver		
ADAIR, AUDRAIN (West of Hwy 19), BOONE, CALLAWAY, CHARITON, COLE, COOPER, HOWARD, KNOX, LINN, MACON, MILLER, MONITEAU, MONROE, OSAGE, PUTNAM, RANDOLPH, SCHUYLER, SHELBY AND SULLIVAN COUNTIES.....	\$ 28.57	11.00
ATCHISON, ANDREW, BATES, CALDWELL, CARROLL, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HENRY, HOLT, LIVINGSTON, MERCER, NODAWAY, ST. CLAIR, SALINE		

AND WORTH COUNTIES.....\$ 27.67	10.55
AUDRAIN (East of Hwy.19), RALLS, MARION, LEWIS, CLARK AND SCOTLAND COUNTIES.\$ 28.83	13.05
BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY, JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON, OZARK, POLK, STONE, TANEY, VERNON, WEBSTER AND WRIGHT COUNTIES.\$ 27.32	10.55
BENTON, MORGAN AND PETTIS...\$ 27.27	11.00
BOLLINGER, BUTLER, CAPE GIRARDEAU, DUNKLIN, MISSISSIPPI, NEW MADRID, PEMISCOT, PERRY, STE. GENEVIEVE, SCOTT, STODDARD AND WAYNE COUNTIES.....\$ 28.67	13.07
BUCHANAN, CLINTON, JOHNSON AND LAFAYETTE COUNTIES.....\$ 28.32	10.55
CARTER, HOWELL, OREGON AND RIPLEY COUNTIES.....\$ 27.75	13.07
CRAWFORD, DENT, GASCONADE, IRON, MADISON, MARIES, MONTGOMERY, PHELPS, PULASKI, REYNOLDS, SHANNON AND TEXAS COUNTIES.....\$ 28.68	13.05
FRANKLIN COUNTY.....\$ 31.23	13.05
JEFFERSON AND ST. CHARLES COUNTIES.....\$ 33.38	13.05
LINCOLN COUNTY.....\$ 30.34	13.05
PIKE, ST. FRANCOIS AND WASHINGTON COUNTIES.....\$ 29.39	13.05
WARREN COUNTY.....\$ 30.73	13.05

ELEC0001-002 06/01/2012

BOLLINGER, BUTLER, CAPE GIRARDEAU, CARTER, DUNKLIN, FRANKLIN,
IRON, JEFFERSON, LINCOLN, MADISON, MISSISSIPPI, NEW MADRID,
PEMISCOT, PERRY, REYNOLDS, RIPLEY, ST. CHARLES, ST. FRANCOIS,
ST. LOUIS (City and County), STE. GENEVIEVE, SCOTT, STODDARD,
WARREN, WASHINGTON AND WAYNE COUNTIES

	Rates	Fringes
Electricians.....\$ 31.75		22.37

ELEC0002-001 09/04/2011

ADAIR, AUDRAIN, BOONE, CALLAWAY, CAMDEN, CARTER, CHARITON,
CLARK, COLE, COOPER, CRAWFORD, DENT, FRANKLIN, GASCONADE,
HOWARD, HOWELL, IRON, JEFFERSON, KNOX, LEWIS, LINCON, LINN,
MACON, MARIES, MARION, MILLER, MONITEAU, MONROE, MONTGOMERY,
MORGAN, OREGON, OSAGE, PERRY, PHELPS, PIKE, PULASKI, PUTNAM,
RALLS, RANDOLPH, REYNOLDS, RIPLEY, ST. CHARLES, ST. FRANCOIS,
ST. LOUIS (City and County), STE. GENEVIEVE, SCHUYLER,
SCOTLAND, SHANNON, SHELBY, SULLIVAN, TEXAS, WARREN AND
WASHINGTON COUNTIES

Rates Fringes

Line Construction:

Equipment Operator.....	\$ 31.39	18.03
Groundman & Truck Driver....	\$ 24.27	15.07
Lineman & Cable Splicer.....	\$ 36.36	20.09

 ELEC0053-004 09/01/2011

Rates Fringes

Line Construction: (ANDREW, ATCHINSON, BARRY, BARTON, BUCHANAN, CALDWELL, CEDAR, CHRISTIAN, CLINTON, DADE, DALLAS, DAVIES,, DEKALB, DOUGLAS, GENTRY, GREENE, GRUNDY, HARRISON, HICKORY, HOLT, JASPER, LACLEDE, LAWRENCE, LIVINGSTON, MCDONALD, MERCER, NEWTON, NODAWAY, OZARK, POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER, WORTH AND WRIGHT COUNTIES)

Groundman Powderman.....	\$ 25.88	13.93
Groundman.....	\$ 23.98	13.27
Lineman Operator.....	\$ 35.12	17.12
Lineman.....	\$ 37.10	17.80

Line Construction; (BATES, BENTON, CARROLL, CASS, CLAY, HENRY, JACKSON, JOHNSON, LAFAYETTE, PETTIS, PLATTE, RAY AND SALINE COUNTIES)

Groundman Powderman.....	\$ 26.84	14.26
Groundman.....	\$ 25.44	13.78
Lineman Operator.....	\$ 35.82	17.36
Lineman.....	\$ 38.40	18.25

 ELEC0095-001 06/01/2012

BARRY, BARTON, CEDAR, DADE, JASPER, LAWRENCE, MCDONALD, NEWTON, ST CLAIR, AND VERNON COUNTIES

Rates Fringes

Electricians:

Cable Splicers.....	\$ 24.90	8%+10.91
Electricians.....	\$ 24.55	8%+10.91

 ELEC0124-007 09/01/2010

BATES, BENTON, CARROLL, CASS, CLAY, COOPER, HENRY, JACKSON, JOHNSON, LAFAYETTE, MORGAN, PETTIS, PLATTE, RAY AND SALINE COUNTIES:

Rates Fringes

Electricians.....	\$ 33.83	18.63
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 ELEC0257-003 03/01/2012

AUDRAIN (Except Cuivre Township), BOONE, CALLAWAY, CAMDEN, CHARITON, COLE, CRAWFORD, DENT, GASCONADE, HOWARD, MARIES,

MILLER, MONITEAU, OSAGE, PHELPS AND RANDOLPH COUNTIES

	Rates	Fringes
Electricians:		
Cable Splicers.....	\$ 30.42	16.085
Electricians.....	\$ 30.42	16.085

 ELEC0350-002 12/01/2010

ADAIR, AUDRAIN (East of Highway 19), CLARK, KNOX, LEWIS, LINN,
 MACON, MARION, MONROE, MONTGOMERY, PIKE, PUTNAM, RALLS,
 SCHUYLER, SCOTLAND, SHELBY AND SULLIVAN COUNTIES

	Rates	Fringes
Electricians.....	\$ 28.16	15.20

 ELEC0453-001 09/01/2011

	Rates	Fringes
Electricians:		
CHRISITAN, DALLAS,		
DOUGLAS, GREENE, HICKORY,		
HOWELL, LACLEDE, OREGON,		
OZARK, POLK, SHANNON,		
WEBSTER and WRIGHT COUNTIES..	\$ 23.93	13.82
PULASKI and TEXAS COUNTIES..	\$ 28.58	14.28
STONE and TANEY COUNTIES....	\$ 19.72	12.99

 ELEC0545-003 06/01/2011

ANDREW, BUCHANAN, CLINTON, DEKALB, ATCHISON, HOLT, MERCER,
 GENTRY, HARRISON, DAVIESS, GRUNDY, WORTH, LIVINGSTON, NODAWAY,
 AND CALDWELL COUNTIES

	Rates	Fringes
Electricians:.....	\$ 31.00	12.22

 ELEC0702-004 07/02/2012

BOLLINGER, BUTLER, CAPE GIRARDEAU, DUNKLIN, MADISON,
 MISSISSIPPI, NEW MADRID, PEMISCOT, SCOTT, STODDARD AND WAYNE
 COUNTIES

	Rates	Fringes
Line Construction:		
Groundman - Class A.....	\$ 24.64	31%+5.76
Groundman-Equipment		
Operator Class II (all		
other equipment).....	\$ 31.20	31%+5.76
Heavy-Equipment Operator		
Class I (all crawler type		
equipment D-4 and larger)...	\$ 35.57	31%+5.76
Lineman.....	\$ 43.30	31%+5.76

 ENGI0101-001 05/01/2011

ANDREW, ATCHISON, BATES, BENTON, BUCHANAN, CALDWELL, CARROLL,
 CHARITON, CLINTON, COOPER, DAVIESS, DEKALB, GENTRY, GRUNDY,
 HARRISON, HENRY, HOLT, HOWARD, JOHNSON, LAFAYETTE, LINN,
 LIVINGSTON, MERCER, NODAWAY, PETTIS, SALINE, SULLIVAN AND WORTH
 COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 29.94	13.76
GROUP 2.....	\$ 29.54	13.76
GROUP 3.....	\$ 27.54	13.76

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt roller operator, finish; asphalt paver and spreader; asphalt plant operator; auto grader or trimmer or sub-grader; backhoe; blade operator (all types); boilers - 2; booster pump on dredge; bulldozer operator; boring machine (truck or crane mounted); clamshell operator; concrete mixer paver; concrete plant operator; concrete pump operator; crane operator; derrick or derrick trucks; ditching machine; dragline operator; dredge engineman; dredge operator; drill cat with compressor mounted (self-contained) or similar type self-propelled rotary drill (not air tract); drilling or boring machine (rotary-self-propelled); finishing machine operator; greaser; high loader-fork lift-skid loader (all types); hoisting engineer (2 active drums); locomotive operator (standard guage); mechanics and welders (field and plants); mucking machine operator; pile drive operator; pitman crane or boom truck (all types); push cat; quad track; scraper operators (all types); shovel operator; sideboom cats; side discharge spreader; skimmer scoop operators; slip form paver operator (CMI, Rex, Gomeco or equal); la tourneau rooter (all tiller types); tow boat operator; truck crane; wood and log chippers (all types).

GROUP 2: A-frame truck operator; articulated dump truck; back filler operator; boilers (1); chip spreader; churn drill operator; compressor; concrete mixer operator, skip loader; concrete saws (self-propelled); conveyor operator; crusher operator; distributor operator; elevating grader operator; farm tractor (all attachments); fireman rig; float operator; form grade operator; hoisting engine (one drum); maintenance operator; multiple compactor; pavement breaker, self-propelled hydra-hammer (or similar type); paymill operator; power shield; pumps; roller operator (with or without blades); screening and washing plant; self-propelled street broom or sweeper; siphons and jets; straw blower; stump cutting machine; siphons and jets; tank car heater operator (combination boiler and booster); welding machine; vibrating machine operator (not hand held); welding machine.

GROUP 3: (a) Oiler;
 (b) Oiler driver
 (c) Mechanic.

HOURLY PREMIUMS:

THE FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$.25) ABOVE
 GROUP 1 RATE: Dragline operator - 3 yds. & over; shovel

3 yds. & over; clamshell 3 yds. & over; Crane, rigs or piledrivers, 100' of boom or over (incl. jib.), hoist - each additional active drum over 2 drums

THE FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$.50) ABOVE GROUP 1 RATE: Tandem scoop operator; crane, rigs or piledrivers 150' to 200' of boom (incl. jib.)

THE FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$.75) ABOVE GROUP 1 RATE: Crane rigs, or piledrivers 200 ft. of boom or over (including jib.)

 * ENGI0101-005 04/01/2012

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 33.13	14.33
GROUP 2.....	\$ 32.09	14.33
GROUP 3.....	\$ 27.62	14.33
GROUP 4.....	\$ 30.97	14.33

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt roller operator, finish; asphalt paver and spreader; asphalt plant operator; auto grader or trimmer or sub-grader; backhoe; blade operator (all types); boilers-2; booster pump on dredge; boring machine (truck or crane mounted); bulldozer operator; clamshell operator; concrete cleaning decontamination machine operator; concrete mixer paver; concrete plant operator; concrete pump operator; crane operator; derrick or derrick trucks; ditching machine; dragline operator; dredge engineman; dredge operator; drillcat with compressor mounted (self-contained) or similar type self propelled rotary drill (not air tract); drilling or boring machine (rotary - self-propelled); finishing machine operator; greaser; heavy equipment robotics operator/mechanic; horizontal directional drill operator; horizontal directional drill locator; loader-forklift - skid loader (all types); hoisting engineer (2 active drums); locomotive operator (standard guage); master environmental maintenance mechanic; mechanics and welders (field and plants); mucking machine operator; piledrive operator; pitman crane or boom truck (all types); push cat; quad-track; scraper operators (all types); shovel operator; side discharge spreader; sideboom cats; skimmer scoop operator; slip-form paver (CMI, REX, Gomaco or equal); la tourneau rooter (all tiller types); tow boat operator; truck crane; ultra high perssure waterjet cutting tool system operator/mechanic; vacuum blasting machine operator/mechanic; wood and log chippers (all types)

GROUP 2: "A" Frame truck operator; back filler operator; boilers (1); chip spreader; churn drill operator; concrete mixer operator, skip loader; concrete saws (self-propelled); conveyor operator; crusher operator; distributor operator; elevating grader operator; farm tractor (all attachments); fireman rig; float operator; form grader operator; hoisting engine (1 drum); maintenance operator; multiple compactor; pavement breaker, self-propelled hydra- hammer (or similar type); power

shield; paymill operator; pumps; siphons and jets; stump cutting machine; tank car heater operator (combination boiler and booster); compressor; roller operator (with or without blades); screening and washing plant; self-propelled street broom or sweeper; straw blower; tank car heater operator (combination boiler and booster); vibrating machine operator (not hand held)

GROUP 3: Oilers

GROUP 4: Oiler Driver (All Types)

FOOTNOTE:

HOURLY PREMIUMS FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$1.00) ABOVE GROUP 1 RATE:

Clamshells - 3 yd. capacity or over; Cranes or rigs, 80 ft. of boom or over (including jib); Draglines, 3 yd. capacity or over;

Piledrivers 80 ft. of boom or over (including jib);

Shovels & backhoes, 3 yd. capacity or over.

ENGI0101-022 05/01/2011

BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY, JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON, OZARK, POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER AND WRIGHT COUNTIES and CITY OF SPRINGFIELD

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 26.71	11.81
GROUP 2.....	\$ 26.36	11.81
GROUP 3.....	\$ 26.16	11.81
GROUP 4.....	\$ 24.11	11.81

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt finishing machine & trench widening spreader; asphalt plant console operator; autograder; automatic slipform paver; backhoe; blade operator - all types; boat operator - tow; boilers-2; central mix concrete plant operator; clamshell operator; concrete mixer paver; crane operator; derrick or derrick trucks; ditching machine; dozer operator; dragline operator; dredge booster pump; dredge engineman; dredge operator; drill cat with compressor mounted on cat; drilling or boring machine rotary self-propelled; highloader; hoisting engine - 2 active drums; launch hammer wheel; locomotive operator; - standard guage; mechanic and welders; mucking machine; off-road trucks; piledriver operator; pitman crane operator; push cat operator; quad trac; scoop operator - all types; shovel operator; sideboom cats; skimmer scoop operators; trenching machine operator; truck crane.

GROUP 2: A-frame; asphalt hot-mix silo; asphalt plant fireman (drum or boiler); asphalt plant man; asphalt plant man; asphalt plant mixer operator; asphalt roller operator; backfiller operator; barber-greene loader; boat operator (bridges and dams); chip spreader; concrete mixer operator - skip loader; concrete plant operator; concrete pump operator; crusher operator; dredge oiler; elevating grader operator; fork lift; greaser-fleet; hoisting engine - 1;

locomotive operator - narrow gauge; multiple compactor; pavement breaker; powerbroom - self-propelled; power shield; roter; side discharge concrete spreader; slip form finishing machine; stumpcutter machine; throttle man; tractor operator (over 50 h.p.); winch truck.

GROUP 3: Boilers - 1; chip spreader (front man); churn drill operator; clef plane operator; concrete saw operator (self-propelled); curb finishing machine; distributor operator; finishing machine operator; flex plane operator; float operator; form grader operator; pugmill operator; roller operator, other than high type asphalt; screening & washing plant operator; siphons & jets; sub-grading machine operator; spreader box operator, self-propelled (not asphalt); tank car heater operator (combination boiler & booster); tractor operator (50 h.p. or less); Ulmac, Ulric or similar spreader; vibrating machine operator, not hand;

GROUP 4: Grade checker; Oiler; Oiler-Driver

HOURLY PREMIUMS:

The following classifications shall receive \$.25 above GROUP 1 rate:

Clamshells - 3 yds. or over; Cranes - Rigs or Piledrivers, 100 ft. of boom or over (including jib); Draglines - 3 yds. or over; Hoists - each additional active drum over 2 drums; Shovels - 3 yds. or over;

The following classifications shall receive \$.50 above GROUP 1 rate:

Tandem scoop operator; Cranes - Rigs or Piledrivers, 150 ft. to 200 ft. of boom (including jib); Tandem scoop.

The following classifications shall receive \$.75 above GROUP 1 rate:

Cranes - Rigs or Piledrivers, 200 ft. of boom or over (including jib.).

* ENGI0513-004 05/02/2012

FRANKLIN, JEFFERSON, LINCOLN, ST CHARLES, AND WARREN COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 29.61	22.53
GROUP 2.....	\$ 29.61	22.53
GROUP 3.....	\$ 27.71	22.53
GROUP 4.....	\$ 24.25	22.53

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Backhoe, Cable; Backhoe, Hydraulic (2 cu yds bucket and under regardless of attachment, one oiler for 2 or 3, two oilers for 4 through 6); Backhoe, Hydraulic over 2 cu yds; Cableway; Crane, Crawler or Truck; Crane, Hydraulic - Truck or Cruiser mounted, 16 tons and over; Crane, Locomotive; crane with boom including jib over 100 ft from pin to pin; Crane using rock socket tool; Derrick, Steam; Derrick Car and Derrick Boat; Dragline, 7 cu yds and over; Dredge; Gradall, Crawler or tire mounted; Locomotive, Gas, Steam & other powers; Pile Driver, Land or Floating; Scoop, Skimmer; Shovel, Power (Electric, Gas, Steam or other

powers); Shovel, Power (7 cu yds and over); Switch Boat; Whirley; Air Tugger with air compressor; Anchor Placing Barge; Asphalt Spreader; Athey Force Feeder Loader, self-propelled; Backfilling Machine; Boat Operator - Push Boat or Tow Boat (job site); Boiler, High Pressure Breaking in Period; Boom Truck, Placing or Erecting; Boring Machine, Footing Foundation; Bullfloat; Cherry Picker; Combination Concrete Hoist and Mixer (such as Mixermobile); Compressor, Two 125 CFM and under; Compressor, Two through Four over 125 CFM; Compressor when operator runs throttle; Concrete Breaker (Truck or Tractor mounted); Concrete Pump (such as Pumpcrete machine); Concrete Saw (self-propelled); Concrete Spreader; Conveyor, Large (not selfpropelled) hoisting or moving brick and concrete into, or into and on floor level, one or both; Crane, Climbing (such as Linden); Crane, Hydraulic - Rough Terrain, self-propelled; Crane, Hydraulic - Truck or Cruiser mounted - under 16 tons; Drilling machine - Self-powered, used for earth or rock drilling or boring (wagon drills and any hand drills obtaining power from other sources including concrete breakers, jackhammers and Barco equipment no engineer required); Elevating Grader; Engine Man, Dredge; Excavator or Powerbelt Machine; Finishing Machine, self-propelled oscillating screed; Forklift; Generators, Two through Six 30 KW or over; Grader, Road with power blade; Greaser; Highlift; Hoist, Concrete and Brick (Brick cages or concrete skips operating or on tower, Towermobile, or similar equipment); Hoist, Three or more drums in use; Hoist, Stack; Hydro-Hammer; Lad-A-Vator, hoisting brick or concrete; Loading Machine such as Barber-Greene; Mechanic on job site

GROUP 2: Air Tugger with plant air; Boiler (for power or heating shell of building or temporary enclosures in connection with construction work); Boiler, Temporary; Compressor, One over 125 CFM; Compressor, truck mounted; Conveyor, Large (not self-propelled); Conveyor, Large (not self-propelled) moving brick and concrete (distributing) on floor level; Curb Finishing Machine; Ditch Paving Machine; Elevator (outside); Endless Chain Hoist; Fireman (as required); Form Grader; Hoist, One Drum regardless of size (except brick or concrete); Lad-A-Vator, other hoisting; Manlift; Mixer, Asphalt, over 8 cu ft capacity; Mixer, one bag capacity or less; Mixer, without side loader, two bag capacity or more; Mixer, with side loader, regardless of size, not Paver; Mud Jack (where mud jack is used in conjunction with an air compressor, operator shall be paid \$.55 per hour in addition to his basic hourly rate for covering both operations); Pug Mill operator; Pump, Sump - self powered, automatic controlled over 2"; Scissor Lift (used for hoisting); Skid Steer Loader; Sweeper, Street; Tractor, small wheel type 50 HP and under with grader blade and similar equipment; Welding Machine, One over 400 amp; Winch, operating from truck

GROUP 3: Boat operator - outboard motor, job site; Conveyors (such as Con-Vay-It) regardless of how used; Elevator (inside); Heater operator, 2 through 6; Sweeper, Floor

GROUP 4: Crane type

HOURLY PREMIUMS:

Backhoe, Hydraulic 2 cu yds or less without oiler - \$2.00;
Crane, climbing (such as Linden) - \$.50;

Crane, Pile Driving and Extracting - \$.50
 Crane with boom (including job) over
 100 ft from pin to pin - add \$.01 per foot
 to maximum of \$4.00);
 Crane, using rock socket tool - \$.50;
 Derrick, diesel, gas or electric hoisting material
 and erecting steel (150 ft or more above ground) - \$.50;
 Dragline, 7 cu yds and over - \$.50;
 Hoist, Three or more drums in use - \$.50;
 Scoop, Tandem - \$.50;
 Shovel, Power - 7 cu yds and over - \$.50;
 Tractor, Tandem Crawler - \$.50;
 Tunnel, man assigned to work in tunnel or
 tunnel shaft - \$.50;
 Wrecking, when machines are working on
 second floor or higher - \$.50

 * ENGI0513-006 05/01/2012

ADAIR, AUDRAIN, BOLLINGER, BOONE, BUTLER, CALLAWAY, CAPE
 GIRARDEAU, CARTER, CLARK, COLE, CRAWFORD, DENT, DUNKLIN,
 GASCONADE, HOWELL, IRON, KNOX, LEWIS, MACON, MADISON, MARIES,
 MARION, MILLER, MISSISSIPPI, MONITEAU, MONROE, MONTGOMERY,
 MORGAN, NEW MADRID, OREGON, OSAGE, PEMISCOT, PERRY, PHELPS,
 PIKE, PULASKI, PUTNAM, RALLS, RANDOLPH, REYNOLDS, RIPLEY, ST.
 FRANCOIS, STE. GENEVIEVE, SCHUYLER, SCOTLAND, SCOTT, SHANNON,
 SHELBY, STODDARD, TEXAS, WASHINGTON, AND WAYNE COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 25.24	22.50
GROUP 2.....	\$ 24.89	22.50
GROUP 3.....	\$ 24.69	22.50
GROUP 4.....	\$ 21.04	22.50

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt finishing machine & trench widening
 spreader, asphalt plant console operator; autograder;
 automatic slipform paver; back hoe; blade operator - all
 types; boat operator tow; boiler two; central mix concrete
 plant operator; clam shell operator; concrete mixer paver;
 crane operator; derrick or derrick trucks; ditching
 machine; dozer operator; dragline operator; dredge booster
 pump; dredge engineman; dredge operator; drill cat with
 compressor mounted on cat; drilling or boring machine
 rotary self-propelled; highloader; hoisting engine 2 active
 drums; launchhammer wheel; locomotive operator standrad
 guage; mechanics and welders; mucking machine; piledriver
 operator; pitman crane operator; push cat operator;
 quad-trac; scoop operator; sideboom cats; skimmer scoop
 operator; trenching machine operator; truck crane, shovel
 operator.

GROUP 2: A-Frame; asphalt hot-mix silo; asphalt roller
 operator asphalt plant fireman (drum or boiler); asphalt
 plant man; asphalt plant mixer operator; backfiller
 operator; barber-greene loader; boat operator (bridge &
 dams); chip spreader; concrete mixer operator skip loader;
 concrete plant operator; concrete pump operator; dredge
 oiler; elevating graded operator; fork lift; grease fleet;
 hoisting engine one; locomotive operator narrow guage;

multiple compactor; pavement breaker; powerbroom self-propelled; power shield; rooter; slip-form finishing machine; stumpcutter machine; side discharge concrete spreader; throttleman; tractor operator (over 50 hp); winch truck; asphalt roller operator; crusher operator.

GROUP 3: Spreader box operator, self-propelled not asphalt; tractor operator (50 h.p. or less); boilers one; chip spreader (front man); churn drill operator; compressor over 105 CFM 2-3 pumps 4" & over; 2-3 light plant 7.5 KWA or any combination thereof; clef plane operator; compressor maintenance operator 2 or 3; concrete saw operator (self-propelled); curb finishing machine; distributor operator; finishing machine operator; flex plane operator; float operator; form grader operator; pugmill operator; riller operator other than high type asphalt; screening & washing plant operator; siphons & jets; subgrading machine operator; tank car heater (combination boiler & booster); ulmac, ulric or similar spreader; vibrating machine operator; hydrobroom.

GROUP 4: Oiler; grout machine; oiler driver; compressor over 105 CFM one; conveyor operator one; maintenance operator; pump 4" & over one.

FOOTNOTE: HOURLY PREMIUMS

- Backhoe hydraulic, 2 cu. yds. or under Without oiler - \$2.00
- Certified Crane Operator - \$1.50;
- Certified Hazardous Material Operator \$1.50;
- Crane, climbing (such as Linden) - \$0.50;
- Crane, pile driving and extracting - \$0.50;
- Crane, with boom (including jib) over 100' from pin to pin add \$0.01 per foot to maximum of \$4.00;
- Crane, using rock socket tool - \$0.50;
- Derrick, diesel, gas or electric, hoisting material and erecting steel (150' or more above the ground) - \$0.50;
- Dragline, 7 cu. yds, and over - \$0.50;
- Hoist, three or more drums in use - \$0.50; Scoop, Tandem - \$0.50;
- Shovel, power - 7 cu. yds. or more - \$0.50;
- Tractor, tandem crawler - \$0.50;
- Tunnel, man assigned to work in tunnel or tunnel shaft - \$0.50;
- Wrecking, when machine is working on second floor or higher - \$0.50;

* ENGI0513-007 05/02/2012

ST. LOUIS CITY AND COUNTY

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 29.61	22.53
GROUP 2.....	\$ 29.61	22.53
GROUP 3.....	\$ 27.71	22.53
GROUP 4.....	\$ 24.25	22.53

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Backhoe, cable or hydraulic; cableway; crane crawler or truck; crane, hydraulic-truck or cruiser mounted 16 tons & over; crane locomotive; derrick, steam; derrick

car & derrick boat; dragline; dredge; gradall, crawler or tire mounted; locomotive, gas, steam & other powers; pile driver, land or floating; scoop, skimmer; shovel, power (steam, gas, electric or other powers); switch boat; whirley.

GROUP 2: Air tugger w/air compressor; anchor-placing barge; asphalt spreader; atthey force feeder loader (self-propelled); backfilling machine; backhoe-loader; boat operator-push boat or tow boat (job site); boiler, high pressure breaking in period; boom truck, placing or erecting; boring machine, footing foundation; bull- float; cherry picker; combination concrete hoist & mixer (such as mixer mobile); compressor (when operator runs throttle); concrete breaker (truck or tractor mounted); concrete pump, such as pump-crete machine; concrete saw (self-propelled), concrete spreader; conveyor, large (not self-propelled), hoisting or moving brick and concrete into, or into and on floor level, one or both; crane, hydraulic-rough terrain, self-propelled; crane hydraulic-truck or cruiser mounted-under 16 tons; drilling machines, self-powered use for earth or rock drilling or boring (wagon drills nd any hand drills obtaining power from other sources including concrete breakers, jackhammers and barco equipment-no engineer required); elevating grader; engineman, dredge; excavator or powerbelt machine; finishing machine, self-propelled oscillating screed; forklift; grader, road with power blade; highlift. greaser; hoist, stack, hydro-hammer; loading machine (such as barber-greene); machanic, on job site; mixer, pipe wrapping machines; plant asphalt; plant, concrete producing or ready-mix job site; plant heating-job site; plant mixing-job site; plant power, generating-job site; pumps, two through six self-powered over 2"; pumps, electric submersible, two through six, over 4"; quad-track; roller, asphalt, top or sub-grade; scoop, tractor drawn; spreader box; sub-grader; tie tamper; tractor-crawler, or wheel type with or without power unit, power take-offs and attachments regardless of size; trenching machine; tunnel boring machine; vibrating machine automatic, automatic propelled; welding machines (gasoline or diesel) two through six; well drilling machine

GROUP 3: Conveyor, large (not self-propelled); conveyor, large (not self-propelled) moving brick and concrete distributing) on floor level; mixer two or more mixers of one bag capacity or less; air tugger w/plant air; boiler, for power or heating on construction projects; boiler, temporary; compressor (mounted on truck; curb finishing machine; ditch paving machine; elevator; endless chain hoist; form grader; hoist, one drum regardless of size; lad-a-vator; manlift; mixer, asphalt, over 8 cu. ft. capacity, without side loader, 2 bag capacity or more; mixer, with side loader, regardless of size; pug mill operator; pump, sump-self-powered, automatic controlled over 2" during use in connection with construction work; sweeper, street; welding machine, one over 400 amp.; winch operating from truck; scissor lift (used for hoisting); tractor, small wheel type 50 h.p. & under with grader blade & similar equipment; Oiler on dredge and on truck crane.

GROUP 4: Boat operator-outboard motor (job site); conveyor (such as con-vay-it) regardless of how used; sweeper, floor

HOURLY PREMIUMS:

Backhoe, hydraulic	
2 cu. yds. or under without oiler	\$2.00
Certified Crane Operator	1.50
Certified Hazardous Material Operator	1.50
Crane, climbing (such as Linden)	.50
Crane, pile driving and extracting	.50
Crane, with boom (including jib) over 100' (from pin to pin) add \$.01 per foot to maximum of	4.00
Crane, using rock socket tool	.50
Derrick, diesel, gas or electric, hoisting material and erecting steel (150' or more above ground)	.50
Dragline, 7 cu. yds. and over	.50
Hoist, three (3) or more drums in use	.50
Scoop, Tandem	.50
Shovel, power - 7 cu. yds. or more	.50
Tractor, tandem crawler	.50
Tunnel, man assigned to work in tunnel or tunnel shaft	.50
Wrecking, when machine is working on second floor or higher	.50

 IRON0010-012 04/01/2012

	Rates	Fringes
Ironworkers:		
ANDREW, ATCHISON, BARTON, BATES, BENTON, CALDWELL, CAMDEN, CARROLL, CEDAR, CHARITON, CHRISTIAN, CLINTON, COOPER, DADE, DALLAS, DAVIESS, DE KALB, GENTRY, GREENE, GRUNDY, HARRISON, HENRY, HICKORY, HOLT, HOWARD, LACLEDE, LINN, LIVINGSTON, MERCER, MONITEAU, MORGAN, NODAWAY, PETTIS, POLK, PUTNAM, RANDLOPH, ST. CLAIR, SALINE, SULLIVAN, TANEY, VERNON, WEBSTER, WRIGHT and WORTH Counties and portions of ADAIR, BOONE, MACON, MILLER and RANDOLPH Counties.....	\$ 26.00	25.60
BUCHANAN, CASS, CLAY, JACKSON, JOHNSON, LAFAYETTE, PLATTE AND RAY Counties.....	\$ 29.00	25.60

 IRON0321-002 08/01/2009

DOUGLAS, HOWELL and OZARK COUNTIES

	Rates	Fringes
Ironworker.....	\$ 18.10	12.34

 IRON0396-004 01/02/2012

ST. LOUIS (City and County), ST. CHARLES, JEFFERSON, IRON, FRANKLIN, LINCOLN, WARREN, WASHINGTON, ST. FRANCOIS, STE.

GENEVIEVE, and REYNOLDS Counties; and portions of MADISON, PERRY, BOLLINGER, WAYNE, and CARTER Counties

	Rates	Fringes
Ironworker.....	\$ 31.98	19.11

IRON0396-009 01/02/2012

AUDRAIN, CALLAWAY, COLE, CRAWFORD, DENT, GASCONADE, MARIES, MONTGOMERY, OSAGE, PHELPS, PIKE, PULASKI, TEXAS and WRIGHT Counties; and portions of BOONE, CAMDEN, DOUGLAS, HOWELL, LACLEDE, MILLER, MONROE, OREGON, SHANNON and RALLS Counties

	Rates	Fringes
Ironworker.....	\$ 27.51	19.55

IRON0577-005 08/01/2012

ADAIR, CLARK, KNOX, LEWIS, MACON, MARION, MONROE, RALLS, SCHUYLER, SCOTLAND, AND SHELBY COUNTIES

	Rates	Fringes
Ironworker.....	\$ 24.44	17.31

IRON0584-004 06/01/2012

BARRY, JASPER, LAWRENCE, MCDONALD, NEWTON AND STONE Counties

	Rates	Fringes
Ironworkers:.....	\$ 22.70	12.28

IRON0782-003 05/01/2012

CAPE GIRARDEAU, MISSISSIPPI, NEW MADRID, SCOTT, & STODDARD Counties; and portions of BOLLINGER, BUTLER, CARTER, DUNKLIN, MADISON, PEMISCOT, PERRY, RIPLEY, and WAYNE Counties

	Rates	Fringes
Ironworkers:		
Locks, Dams, Bridges and other major work on the Mississippi and Ohio River only.....	\$ 29.39	20.03
All Other Work.....	\$ 23.87	17.79

LABO0042-003 03/07/2012

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Plumber Laborer.....	\$ 28.87	12.62

LABO0042-005 03/07/2012

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Dynamiter, Powderman.....	\$ 29.37	12.62
Laborers, Flaggers.....	\$ 28.87	12.62
Wrecking.....	\$ 28.75	12.62

LABO0424-002 05/01/2009

	Rates	Fringes
LABORER		
ADAIR, AUDRAIN, BOONE, CALLAWAY, CHARITON, CLARK, COLE, COOPER, HOWARD, IRON, KNOX, LEWIS, LINN, MACON, MADISON, MARION, MILLER, MONITEAU, MONROE, PERRY, PIKE, PUTNAM, RALLS, RANDOLPH, REYNOLDS, ST. FRANCOIS, STE. GENEVIEVE, SCHUYLER, SCOTLAND, SHELBY AND SULLIVAN COUNTIES		
GROUP 1.....	\$ 24.56	9.29
GROUP 2.....	\$ 25.16	9.29
BOLLINGER, BUTLER, CAPE GIRARDEAU, CARTER, CRAWFORD, DENT, DUNKLIN, GASCONADE, HOWELL, MARIES, MISSISSIPPI, NEW MADRID, OREGON, OSAGE, PEMISCOT, PHELPS, PULASKI, RIPLEY, SCOTT, SHANNON, STODDARD, TEXAS, WASHINGTON AND WAYNE COUNTIES		
GROUP 1.....	\$ 24.56	9.29
GROUP 2.....	\$ 25.16	9.29
FRANKLIN COUNTY		
GROUP 1.....	\$ 26.01	9.29
GROUP 2.....	\$ 26.61	9.29
JEFFERSON COUNTY		
GROUP 1.....	\$ 26.06	9.29
GROUP 2.....	\$ 26.66	9.29
LINCOLN, MONTGOMERY AND WARREN COUNTIES		
GROUP 1.....	\$ 24.81	9.29
GROUP 2.....	\$ 25.41	9.29
ST.CHARLES COUNTY		
GROUP 1.....	\$ 27.33	9.29
GROUP 2.....	\$ 27.33	9.29

LABORERS CLASSIFICATIONS

GROUP 1 - General laborer-flagman, carpenter tenders; salamander Tenders; Dump Man; Ticket Takers; loading trucks under bins, hoppers, and conveyors; track man; cement handler; dump man on earth fill; georgie buggy man; material batch hopper man; spreader on asphalt machine; material mixer man (except on manholes); coffer dams; riprap pavers rock, block or brick; scaffolds over ten feet

not self-supported from ground up; skip man on concrete paving; wire mesh setters on concrete paving; all work in connection with sewer, water, gas, gasoling, oil, drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator; all work in connection with hydraulic or general dredging operations; form setters, puddlers (paving only); straw blower nozzle man; asphalt plant platform man; chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material; topper of standing trees; feeder man on wood pulverizers, board and willow mat weavers and cabelee tiers on river work; deck hands; pile dike and revetment work; all laborers working on underground tunnels less than 25 ft. where compressed air is not used; abutment and pier hole men working six (6) ft. or more below ground; men working in coffer dams for bridge piers and footing in the river; barco tamper; jackson or any other similar tamp; cutting torch man; liners, curb, gutters, ditch lines; hot mastic kettlemen; hot tar applicator; hand blade operator; mortar men or brick or block manholes; rubbing concrete, air tool operator under 65 lbs.; caulker and lead man; chain or concrete saw under 15 h.p.; signal Gan; Guard rail and sign erectors.

GROUP 2 - Skilled laborers - Vibrator man; asphalt raker; head pipe layer on sewer work; batterboard man on pipe and ditch work; cliff scalers working from bosun's chairs; scaffolds or platforms on dams or power plants over 10 ft. high; air tool operator over 65 lbs.; stringline man on concrete paving; sandblast man; laser beam man; wagon drill; churn drill; air track drill and all other similar type drills, gunite nozzle man; pressure grout man; screed man on asphalt; concrete saw 15 h.p. and over; grade checker; strigline man on electronic grade control; manhole builder; dynamite man; powder man; welder; tunnel man; waterblaster - 1000 psi or over; asbestos and/or hazardous waste removal and/or disposal

LABO0579-005 05/01/2012

	Rates	Fringes
LABORER (ANDREW, ATCHISON, BUCHANAN, CALDWELL, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LIVINGSTON, MERCER, NODAWAY and WORTH COUNTIES.)		
GROUP 1.....	\$ 23.89	11.39
GROUP 2.....	\$ 24.24	11.39
LABORER (BARRY, BARTON, BATES, BENTON, CAMDEN, CARROLL, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HENRY. HICKORY, JASPER, JOHNSON, LACLEDE, LAWRENCE, MCDONALD, MORGAN, NEWTON, OZARK, PETTIS, POLK, ST.CLAIR, SALINE, STONE, TANEY, VERNON, WEBSTER and WRIGHT COUNTIES)		
GROUP 1.....	\$ 22.24	11.24
GROUP 2.....	\$ 22.79	11.24

LABORER (LAFAYETTE COUNTY)

GROUP 1.....	\$ 23.79	11.49
GROUP 2.....	\$ 24.14	11.49

LABORERS CLASSIFICATIONS

GROUP 1: General Laborers - Carpenter tenders; salamander tenders; loading trucks under bins; hoppers & conveyors; track men & all other general laborers; air tool operator; cement handler-bulk or sack; dump man on earth fill; georgie buggy man; material batch hopper man; material mixer man (except on manholes); coffer dams; riprap pavers - rock, block or brick; signal man; scaffolds over ten feet not self-supported from ground up; skipman on concrete paving; wire mesh setters on concrete paving; all work in connection with sewer, water, gas, gasoline, oil drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator, all work in connection with hydraulic or general dredging operations; puddlers (paving only); straw blower nozzle man; asphalt plant platform man; chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material or materials (where special protection is required); rubbing concrete; topper of standing trees; batter board man on pipe and ditch work; feeder man on wood pulverizers; board and willow mat weavers and cable tiers on river work; deck hands; pile dike and revetment work; all laborers working on underground tunnels less than 25 feet where compressed air is not used; abutment and pier hole men working six (6) feet or more below ground; men working in coffer dams for bridge piers and footings in the river; ditchliners; pressure groutmen; caulker; chain or concrete saw; cliffscalers working from scaffolds, bosuns' chairs or platforms on dams or power plants over (10) feet above ground; mortarmen on brick or block manholes; toxic and hazardous waste work.

GROUP 2: Skilled Laborers - Head pipe layer on sewer work; laser beam man; Jackson or any other similar tamp; cutting torch man; form setters; liners and stringline men on concrete paving, curb, gutters; hot mastic kettleman; hot tar applicator; sandblasting and gunite nozzle men; air tool operator in tunnels; screed man on asphalt machine; asphalt raker; barco tamper; churn drills; air track drills and all similar drills; vibrator man; stringline man for electronic grade control; manhole builders-brick or block; dynamite and powder men; grade checker.

LAB00663-002 04/01/2011

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 26.64	12.49
GROUP 2.....	\$ 27.85	12.49

LABORERS CLASSIFICATIONS

GROUP 1: General laborers, Carpenter tenders, salamander tenders, loading trucks under bins, hoppers and conveyors, track men and all other general laborers, air tool operator, cement handler (bulk or sack), chain or concrete

saw, deck hands, dump man on earth fill, Georgie Buggies man, material batch hopper man, scale man, material mixer man (except on manholes), coffer dams, abutments and pier hole men working below ground, riprap pavers rock, black or brick, signal man, scaffolds over ten feet not self-supported from ground up, skipman on concrete paving, wire mesh setters on concrete paving, all work in connection with sewer, water, gas, gasoling, oil, drainage pipe, conduit pipe, tile and duct lines and all other pipelines, power tool operator, all work in connection with hydraulic or general dredging operations, straw blower nozzle man, asphalt plant platform man, chuck tender, crusher feeder, men handling creosote ties on creosote materials, men working with and handling epoxy material or materials (where special protection is required), topper of standing trees, batter board man on pipe and ditch work, feeder man on wood pulverizers, board and willow mat weavers and cable tiers on river work, deck hands, pile dike and revetment work, all laborers working on underground tunnels less than 25 feet where compressed air is not used, abutment and pier hole men working six (6) feet or more below ground, men working in coffer dams for bridge piers and footings in the river, ditchliners, pressure groutmen, caulker and chain or concrete saw, cliffscalers working from scaffolds, bosuns' chairs or platforms on dams or power plants over (10) feet above ground, mortarmen on brick or block manholes, signal man.

GROUP 2: Skilled Laborer - spreader or screed man on asphalt machine, asphalt raker, grade checker, vibrator man, concrete saw over 5 hp., laser beam man, barco tamper, jackson or any other similar tamp, wagon driller, churn drills, air track drills and other similar drills, cutting torch man, form setters, liners and stringline men on concrete paving, curb, gutters and etc., hot mastic kettleman, hot tar applicator, hand blade operators, mortar men on brick or block manholes, sand blasting and gunnite nozzle men, rubbing concrete, air tool operator in tunnels, head pipe layer on sewer work, manhole builder (brick or block), dynamite and powder men.

 PAIN0002-002 09/01/2007

CLARK, FRANKLIN, JEFFERSON, LEWIS, LINCOLN, MARION, PIKE, RALLS, ST. CHARLES, ST. LOUIS (CITY & COUNTY), AND WARREN COUNTIES

	Rates	Fringes
Painters:		
Brush and Roller; Taper.....	\$ 28.61	10.24
High work over 60 feet.....	\$ 29.11	10.24
Lead Abatement.....	\$ 29.36	10.24
Pressure Roller; High work under 60 ft.....	\$ 28.86	10.24
Spray & Abrasive Blasting; Water Blasting (Over 5000 PSI).....	\$ 30.61	10.24
Taper (Ames Tools & Bazooka).....	\$ 30.21	10.24

 PAIN0002-006 04/01/2011

ADAIR, AUDRAIN, BOONE, CALLAWAY, CHARITON, COLE, GASCONADE, HOWARD, KNOX, LINN, MACON, MONROE, MONTGOMERY, OSAGE, PUTNAM, RANDOLPH, SCHUYLER, SCOTLAND, SHELBY AND SULLIVAN COUNTIES and the City of Booneville.

	Rates	Fringes
Painters:		
Bridges, Dams, Locks or Powerhouses.....	\$ 22.80	10.87
Brush and Roll; Taping, Paperhanging.....	\$ 20.80	10.87
Epoxy or Any Two Part Coating; Sandblasting; Stage or other Aerial Work - Platforms over 50 feet high; Lead Abatement.....	\$ 21.80	10.87
Spray; Structural Steel (over 50 feet).....	\$ 21.30	10.87
Tapers using Ames or Comparable Tools.....	\$ 21.05	10.87

PAIN0003-004 04/01/2011

CASS, CLAY, CLINTON, JACKSON, JOHNSON, LAFAYETTE, PLATTE & RAY COUNTIES

	Rates	Fringes
Painters:		
Bridgeman; Lead Abatement; Sandblast; Storage Bin & Tanks.....	\$ 29.93	14.04
Brush & Roller.....	\$ 28.31	14.04
Drywall.....	\$ 28.53	14.04
Paper Hanger.....	\$ 28.81	14.04
Stageman; Beltman; Steelman; Elevator Shaft; Bazooka, Boxes and Power Sander; Sprayman; Dipping...	\$ 29.43	14.04
Steeplejack.....	\$ 33.50	14.04

PAIN0003-011 04/01/2011

BATES, BENTON, CALDWELL, CARROLL, COOPER, DAVIESS, GRUNDY, HARRISON, HENRY, LIVINGSTON, MERCER, MONITEAU, MORGAN, PETTIS & SALINE COUNTIES

	Rates	Fringes
Painters:		
Bridgeman; Lead Abatement; Sandblast; Storage Bin & Tanks.....	\$ 24.06	14.04
Brush & Roller.....	\$ 22.67	14.04
Drywall.....	\$ 22.84	14.04
Paper Hanger.....	\$ 23.07	14.04
Stageman; Beltman; Steelman; Elevator Shaft; Bazooka, Boxes and Power Sander; Sprayman; Dipping...	\$ 23.56	14.04

Steeplejack.....\$ 26.82 14.04

PAIN0098-002 05/01/2012

ANDREW, ATCHISON, BUCHANAN, DE KALB, GENTRY, HOLT, NODAWAY & WORTH COUNTIES

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 22.93	11.51
Sandblaster.....	\$ 23.93	11.51
Steeplejack.....	\$ 25.93	11.51

PAIN0203-001 04/01/2012

BARRY, BARTON, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY, HOWELL, JASPER, LAWRENCE, MCDONALD, NEWTON, OZARK, POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER, and WRIGHT COUNTIES

	Rates	Fringes
Painters:		
Finisher.....	\$ 20.18	11.33
Painter.....	\$ 19.75	11.76
Sandblaster, High Man, Spray Man, Vinyl Hanger, Tool Operator.....	\$ 21.18	11.33

PAIN1265-003 07/01/2012

CAMDEN, CRAWFORD, DENT, LACLEDE, MARIES, MILLER, PHELPS, PULASKI AND TEXAS COUNTIES

	Rates	Fringes
Painters:		
Brush and Roller.....	\$ 25.64	11.77
Floor Work.....	\$ 26.14	11.77
Lead Abatement.....	\$ 27.89	11.77
Spray.....	\$ 27.14	11.77
Structural Steel, Sandblasting and All Tank Work.....	\$ 26.89	11.77
Taping, Paperhanging.....	\$ 26.64	11.77

* PAIN1292-002 09/01/2012

BOLLINGER, BUTLER, CAPE GIRARDEAU, CARTER, DUNKLIN, MISSISSIPPI, NEW MADRID, OREGON, PEMISCOT, PERRY, REYNOLDS, RIPLEY, SCOTT, SHANNON, STODDARD and WAYNE COUNTIES

	Rates	Fringes
Painters:		
Bridges, Stacks & Tanks.....	\$ 28.79	11.50
Brush & Roller.....	\$ 23.84	11.50
Spray & Abrasive Blasting; Waterblasting (over 5000		

PSI).....\$ 26.44 11.50

Height Rates (All Areas):
 Over 60 ft. \$0.50 per hour.
 Under 60 ft. \$0.25 per hour.

 * PAIN1292-003 09/01/2012

IRON, MADISON, ST. FRANCOIS, STE. GENEVIEVE and WASHINGTON
 COUNTIES

	Rates	Fringes
Painters:		
Bridges, Stacks & Tanks.....	\$ 28.79	11.50
Brush & Roller.....	\$ 26.44	11.50
Spray & Abrasive Blasting; Waterblasting (Over 5000 PSI).....	\$ 26.44	11.50

Height Rates (All Areas):
 Over 60 ft. \$0.50 per hour
 Under 60 ft. \$0.25 per hour.

 PLAS0518-006 03/21/2012

BARRY, BARTON, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE,
 HICKORY, JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON, OZARK,
 POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER, AND WRIGHT
 COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 22.06	8.74

 PLAS0518-007 04/01/2012

CASS (Richards-Gebaur AFB only), CLAY, JACKSON, PLATTE AND RAY
 COUNTIES

	Rates	Fringes
Cement Masons:.....	\$ 29.24	14.38

 PLAS0518-011 04/01/2012

ANDREW, ATCHISON, BATES, BUCHANNAN, CLINTON, DEKALB, GENTRY,
 HENRY, HOLT, JOHNSON, LAFAYETTE, NODAWAY & WORTH COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 31.08	16.15

 PLAS0527-001 04/04/2012

	Rates	Fringes
CEMENT MASON FRANKLIN, LINCOLN AND WARREN COUNTIES.....	\$ 28.33	14.83

JEFFERSON, ST. CHARLES
 COUNTIES AND ST. LOUIS
 (City and County).....\$ 29.50 14.91

PLAS0527-004 06/01/2012

CRAWFORD, DENT, IRON, MADISON, MARION, PHELPS, PIKE, PULASKI,
 RALLS, REYNOLDS, ST. FRANCOIS, STE. GENEVIEVE, SHANNON, TEXAS,
 WASHINGTON COUNTIES

	Rates	Fringes
CEMENT MASON.....	\$ 26.34	14.83

PLAS0908-001 05/01/2012

BOLLINGER, BUTLER, CAPE GIRARDEAU, CARTER, DUNKLIN, HOWELL,
 MISSISSIPPI, NEW MADRID, OREGON, PEMISCOT, PERRY, RIPLEY,
 SCOTT, STODDARD, AND WAYNE COUNTIES

	Rates	Fringes
CEMENT MASON.....	\$ 25.25	12.55

PLAS0908-005 05/01/2012

BENTON, CALDWELL, CALLAWAY, CAMDEN, CARROLL, COLE, DAVIESS,
 GASCONADE, GRUNDY, HARRISON, LIVINGSTON, MACON, MARIES, MERCER,
 MILLER, MONTGOMERY, MORGAN, OSAGE, PETTIS & SALINE COUNTIES

	Rates	Fringes
CEMENT MASON.....	\$ 25.25	12.55

PLUM0008-003 06/01/2012

CASS, CLAY, JACKSON, JOHNSON, AND PLATTE COUNTIES

	Rates	Fringes
Plumbers.....	\$ 37.45	20.41

PLUM0008-017 06/01/2012

BATES, BENTON, CARROLL, HENRY, LAFAYETTE, MORGAN, PETTIS, RAY,
 ST. CLAIR, SALINE AND VERNON COUNTIES

	Rates	Fringes
Plumbers.....	\$ 35.01	20.41

PLUM0045-003 09/01/2012

ANDREW, ATCHISON, BUCHANAN, CALDWELL, CLINTON, DAVIESS, DEKALB,
 GENTRY, HARRISON, HOLT, NODAWAY AND WORTH COUNTIES

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 33.10	18.65

 PLUM0178-003 11/01/2011

BARRY, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE,
 HICKORY, LACLEDE, LAWRENCE, POLK, STONE, TANEY, WEBSTER AND
 WRIGHT COUNTIES

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 26.75	14.32

 PLUM0178-006 11/01/2011

BARTON, JASPER, MCDONALD AND NEWTON COUNTIES

	Rates	Fringes
Plumbers and Pipefitters		
Projects \$750,000 & under...	\$ 23.78	14.32
Projects over \$750,000.....	\$ 26.75	14.32

 PLUM0533-004 06/01/2012

BATES, BENTON, CARROLL, CASS, CLAY, HENRY, HICKORY, JACKSON,
 JOHNSON, LAFAYETTE, MORGAN, PETTIS, PLATTE, RAY, SALINE, ST.
 CLAIR AND VERNON COUNTIES

	Rates	Fringes
Pipefitters.....	\$ 40.08	19.07

 PLUM0562-004 08/01/2012

ADAIR, AUDRAIN, BOLLINGER, BOONE, BUTLER, CALLAWAY, CAMDEN, CAPE
 GIRARDEAU, CARTER, CHARITON, CLARK, COLE, COOPER, CRAWFORD,
 DENT, DUNKLIN, FRANKLIN, GASCONADE, GRUNDY, HOWARD, HOWELL,
 IRON, JEFFERSON, KNOX, LEWIS, LINCOLN, LINN, LIVINGSTON, MACON,
 MADISON, MARIES, MARION, MERCER, MILLER, MISSISSIPPI, MONITEAU,
 MONROE, MONTGOMERY, NEW MADRID, OREGON, OSAGE, PEMISCOTT,
 PERRY, PHELPS, PIKE, PULASKI, PUTNAM, RALLS, RANDOLPH,
 REYNOLDS, RIPLEY, ST. CHARLES, ST. FRANCOIS, STE. GENEVIEVE, ST.
 LOUIS, SCHUYLER, SCOTLAND, SCOTT, SHANNON, SHELBY, STODDARD,
 SULLIVAN, TEXAS, WARREN, WASHINGTON, AND WAYNE COUNTIES.

	Rates	Fringes
Plumbers and Pipefitters		
Mechanical Contracts		
including all piping and		
temperature control work		
\$7.0 million & under.....	\$ 32.91	19.16
Mechanical Contracts		
including all piping and		
temperature control work		
over \$7.0 million.....	\$ 34.25	25.03

 PLUM0562-016 08/01/2012

CAMDEN, COLE, CRAWFORD, FRANKLIN, JEFFERSON, MARIES, MILLER,
 MONITEAU, OSAGE, PHELPS, PULASKI, ST. CHARLES, ST. LOUIS (City
 and County), WARREN and WASHINGTON COUNTIES

	Rates	Fringes
Plumbers		
Mechanical Contracts including all piping and temperature control work \$7.0 million & under.....	\$ 32.91	19.16
Mechanical Contracts including all piping and temperature control work over \$7.0 million.....	\$ 34.25	25.03

TEAM0013-001 05/01/2010

	Rates	Fringes
Truck drivers (ADAIR, BUTLER, CLARK, DUNKIN, HOWELL, KNOX, LEWIS, OREGON, PUTNAM, RIPLEY, SCHUYLER AND SCOTLAND COUNTIES)		
GROUP 1.....	\$ 25.84	9.85
GROUP 2.....	\$ 26.00	9.85
GROUP 3.....	\$ 25.99	9.85
GROUP 4.....	\$ 26.11	9.85
Truck drivers (AUDRAIN, BOLLINGER, BOONE, CALLAWAY, CAPE GIRARDEAU, CARTER, COLE, CRAWFORD, DENT, GASCONADE, IRON, MACON, MADISON, MARIES, MARION, MILLER, MISSISSIPPI, MONROE, MONTGOMERY, NEW MADRID, OSAGE, PEMISCOT, PERRY, PHELPS, PIKE, PULASKI, RALLS, REYNOLDS, ST. FRANCOIS, STE. GENEVIEVE, SCOTT, SHANNON, SHELBY, STODDARD, TEXAS, WASHINGTON AND WAYNE COUNTIES)		
GROUP 1.....	\$ 26.57	9.85
GROUP 2.....	\$ 26.73	9.85
GROUP 3.....	\$ 26.72	9.85
GROUP 4.....	\$ 26.84	9.85
Truck drivers (FRANKLIN, JEFFERSON and ST. CHARLES COUNTIES)		
GROUP 1.....	\$ 28.93	9.85
GROUP 2.....	\$ 29.04	9.85
GROUP 3.....	\$ 29.08	9.85
GROUP 4.....	\$ 29.15	9.85
Truck drivers (LINCOLN and WARREN COUNTIES)		
GROUP 1.....	\$ 27.58	9.85
GROUP 2.....	\$ 27.69	9.85
GROUP 3.....	\$ 28.73	9.85
GROUP 4.....	\$ 27.80	9.85

TRUCK DRIVERS CLASSIFICATIONS:

GROUP 1: Flat Bed Trucks, Single Axle; Station Wagons;
Pickup Trucks; Material Trucks, Single Axle; Tank Wagon,
Single Axle

GROUP 2: Agitator and Transit Mix Trucks

GROUP 3: Flat Bed Trucks, Tandem Axle; Articulated Dump Trucks; Material Trucks, Tandem Axle; Tank Wagon, Tandem Axle

GROUP 4: Semi and/or Pole Trailers; Winch, Fork & Steel Trucks; Distributor Drivers and Operators; Tank Wagon, Semi-Trailer; Insley Wagons, Dumpsters, Half-Tracks, Speedace, Euclids and other similar equipment; A-Frame and Derrick Trucks; Float or Low Boy

TEAM0056-001 05/01/2010

	Rates	Fringes
Truck drivers (ANDREW, BARTON, BATES, BENTON, CALDWELL, CAMDEN, CARROLL, CEDAR, CHARITON, CHRISTIAN, CLINTON, COOPER, DADE, DALLAS, DAVIESS, DEKALB, DOUGLAS, GREENE, HENRY, HICKORY, HOWARD, JASPER, LACLEDE, LAWRENCE, LINN, LIVINGSTON, MONITEAU, MORGAN, NEWTON, PETTIS, POLK, RANDOLPH, ST. CLAIR, SALINE, VERNON, WEBSTER AND WRIGHT COUNTIES)		
GROUP 1.....	\$ 26.27	9.85
GROUP 2.....	\$ 26.43	9.85
GROUP 3.....	\$ 26.42	9.85
GROUP 4.....	\$ 26.54	9.85
Truck drivers: (ATCHISON, BARRY, GENTRY, GRUNDY, HARRISON, HOLT, MCDONALD, MERCER, NODAWAY, OZARK, STONE, SULLIVAN, TANEY AND WORTH COUNTIES)		
GROUP 1.....	\$ 25.54	9.85
GROUP 2.....	\$ 25.70	9.85
GROUP 3.....	\$ 25.69	9.85
GROUP 4.....	\$ 25.81	9.85
Truck drivers; (BUCHANAN, JOHNSON AND LAFAYETTE COUNTIES)		
GROUP 1.....	\$ 27.48	9.85
GROUP 2.....	\$ 27.59	9.85
GROUP 3.....	\$ 27.63	9.85
GROUP 4.....	\$ 27.70	9.85

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Flat bed trucks single axle; station wagons; pickup trucks; material trucks single axle; tank wagons single axle.

GROUP 2: Agitator and transit mix-trucks.

GROUP 3: Flat bed trucks tandem axle; articulated dump trucks; material trucks tandem axle; tank wagons tandem axle.

GROUP 4: Semi and/or pole trailers; winch, fork & steel trucks; distributor drivers & operators; tank wagons semi-trailer; insley wagons, dumpsters, half-tracks, speedace, euclids & other similar equipment; A-frames and derrick trucks; float or low boy.

 TEAM0245-001 03/26/2012

BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DALLAS, DENT, DOUGLAS, GREENE, HICKORY, HOWELL, JASPER, LACLEDE, LAWRENCE, MCDONALD, MILLER, NEWTON, OZARK, PHELPS, POLK, PULASKI, SHANNON, STONE, TANEY, TEXAS, VERNON, WEBSTER AND WRIGHT COUNTIES

	Rates	Fringes
Truck drivers:		
Traffic Control Service		
Driver.....	\$ 20.45	0.00

PAID HOLIDAYS: New Year's Day, Decoration Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day, employee's birthday and 2 personal days.

 TEAM0541-001 04/01/2011

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 29.76	11.65
GROUP 2.....	\$ 29.19	11.65
GROUP 3.....	\$ 28.67	11.65

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Mechanics and Welders, Field; A-Frame Low Boy-Boomeruck Driver.

GROUP 2: Articulated Dump Truck; Insley Wagons: Dump Trucks, Excavating, 5 cu yds and over; Dumpsters; Half-Tracks: Speedace: Euclids & similar excavating equipment Material trucks, Tandem Two teams; Semi-Trailers; Winch trucks-Fork trucks; Distributor Drivers and Operators; Agitator and Transit Mix; Tank Wagon Drivers, Tandem or Semi; One Team; Station Wagons; Pickup Trucks; Material Trucks, Single Axle; Tank Wagon Drivers, Single Axle

GROUP 3: Oilers and Greasers - Field

 TEAM0682-002 05/01/2012

ST LOUIS CITY AND COUNTY

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 30.605	8.69+a+b+c+d
GROUP 2.....	\$ 30.805	8.69+a+b+c+d
GROUP 3.....	\$ 30.69	8.69+a+b+c+d

a. PENSION: 5/1/2012 - \$182.20 per week.

b. HAZMAT PREMIUM: If Hazmat certification on a job site is required by a state or federal agency or requested by project owner or by the employer, employees on that job site shall receive \$1.50 premium pay.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - Pick-up trucks; forklift, single axle; flatbed trucks; job site ambulance, and trucks or trailers of a water level capacity of 11.99 cu. yds. or less

GROUP 2 - Trucks or trailers of a water level capacity of 12.0 cu yds. up to 22.0 cu yds. including euclids, speedace and similar equipment of same capacity and compressors

GROUP 3 - Trucks or trailers of a water level capacity of 22.0 cu. yds & over including euclids, speedace & all floats, flatbed trailers, boom trucks, winch trucks, including small trailers, farm wagons tilt-top trailers, field offices, tool trailers, concrete pumps, concrete conveyors & gasoline tank trailers and truck mounted mobile concrete mixers

FOOTNOTE FOR TRUCK DRIVERS:

c. PAID HOLIDAYS: Christmas Day, Independence Day, Labor Day, Memorial Day, Veterans Day, New Years Day, Thanksgiving Day

d. PAID VACATION: 3 days paid vacation for 600 hours of service in any one contract year; 4 days paid vacation for 800 hours of service in any one contract year; 5 days paid vacation for 1,000 hours of service in any one contract year. When such an employee has completed 3 years of continuous employment with the same employer and then works the above required number of hours, he shall receive double the number of days of vacation specified above. When such an employee has completed 10 years of continuous employment with the same employer and then works the above required number of hours, he shall receive triple the number of days of vacation specified above. When such an employee has completed 15 years of continuous employment with the same employer and then works the above required number of hours, he shall receive 4 times the number of days of vacation specified above.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification

and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters, PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

JSP-24
JOB SPECIAL PROVISIONS – Cobblestone Paving

(Job Special Provisions shall prevail over Specifications and/or General Provisions whenever in conflict therewith)

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Permeable pavement consisting of granite cobblestones set in aggregate setting beds.
2. Cast-in-place concrete headers.

B. Related Sections include the following:

1. "JSP-06 Earthwork" for excavation to subgrade; subbase course; leveling course; and geotextiles.
2. "JSP-10 Decorative Concrete Pavement" for cast-in-place concrete pavement and curb & gutters that serve as headers for permeable pavement.

1.3 SUBMITTALS

A. Sieve Analyses: For aggregate materials, according to ASTM C 136.

B. Samples for Verification:

1. Aggregate for leveling course.

1.4 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

B. Pre-installation Conference: Conduct conference at Project site.

1. Review methods and procedures related to cobblestone paving including, but not limited to the following:
 - a. Review proposed sources of paving materials, including onsite and offsite locations.
 - b. Review condition of subgrade and preparatory work.
 - c. Review requirements for protecting paving work, including restriction of traffic during installation period and for remainder of construction period.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
- B. Store salvaged Cobblestones in a safe and secure location to keep them from being stolen or damaged prior to re-installation. This will require temporary security fencing and could be done at the same location as the overnight equipment storage and construction material laydown area. The Old Switzer Building Site at the Southeast corner of 1st Street and Lucas and just north of Eades Bridge is a potential on-site storage/laydown area for work on this project. Contractor to contact the Owner to negotiate temporary lease cost, any repair requirements and include this cost in the lump sum pay item "Cobblestone Remove, Store and Replace".

PART 2 – PRODUCTS

2.1 GRANITE COBBLESTONES

- A. Granite Cobblestones: Cobblestones salvaged from the existing street during excavation.
 - 1. Use whole, sound cobblestones cleaned of any asphalt or concrete residue.
 - 2. If insufficient cobblestones are available on site, additional cobblestones shall be obtained at no cost from the City of St. Louis storage yard at 9214 Riverview Drive.

2.2 AGGREGATE SETTING-BED MATERIALS

- A. Graded Aggregate for Subbase Course: Sound crushed stone or gravel complying with requirements in "JSP-06 Earthwork" for subbase material.
- B. Graded Aggregate for Leveling Course and Fill: Sound "Locking Sand" complying with requirements in "JSP-06 Earthwork" for leveling course material.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Phasing:
 - 1. Cobblestone removal and replacement **and all other streetscape work associated with curbs, gutters, intersections and sidewalks** shall be done on a phased basis per the **following** Phasing Plan.
 - a. Phase I is 2nd Street from Lucas through and including the concrete intersection at Morgan.
 - b. Phase II is 2nd Street from Washington through and including the concrete intersection at Lucas.
 - c. Phase III is 1st Street from Washington through and including the concrete intersection at Lucas (assuming that both bid alternates 1 and 2 are accepted).
 - d. Phase IV is 2nd Street from Lucas through and including the concrete intersection at Morgan (assuming that bid alternates 1, 2, 3 and 4 are taken).

2. The Contractor is allowed to proceed with work in later phased street blocks even as he is completing the work in higher priority phases so long as the later phase work does not interfere with the completion of the earlier phase work within the shortest practical time period. Before proceeding to later phase work in such instances, the Contractor must notify and receive the approval of the Authority's Engineer.

B. Do not use cobblestones with chips, cracks, voids, and other defects that might be structurally unsound or visible in finished work.

C. No cutting of Cobblestones will be allowed as it is the intent of this project to preserve as much of the original historic appearance of the Cobblestones as possible. Place Cobblestones back in the original pattern and fit adjoining work neatly. Use full units without cutting.

D. Tolerances:

1. Variation in top surface between Adjacent Units (Lipping): Do not exceed 1/4-inch unit-to-unit variation from a flush surface. The Authority's engineer on site will work with the contractor to develop a method to determine if a uniform surface has been constructed

2. Variation from Indicated Slope: Do not exceed 1/8 inch in 24 inches and 1/2 inch in 10 feet. Use a 10 foot straightedge to verify that this tolerance is being met.

E. Provide concrete headers as indicated. Install headers before placing cobblestones.

1. Install job-built concrete headers to comply with requirements in "JSP-10 Decorative Cement Concrete Pavement."

F. Provide curb and gutters as indicated. Install curb and gutters before placing cobblestones.

3.2 SETTING-BED INSTALLATION

A. Place aggregate subbase to comply with requirements of "JSP-06 Earthwork".

B. Place leveling course on prepared subbase and screed to a thickness sufficient to provide a minimum of 2 inches of locking sand below the deepest of the cobblestones when the cobblestone installation is complete. During placement of the leveling course care should be taken to ensure that moisture content remains constant and density is loose and constant until cobblestones are set and compacted.

3.3 COBBLESTONE INSTALLATION

A. Set cobblestones on leveling course, being careful not to disturb leveling base. Place cobblestones hand tight using spacer bars and string lines to maintain straight lines while maintaining minimum joint width possible.

B. Compact cobblestones into leveling course with a low-amplitude plate vibrator capable of a 3500- to 5000-lbf compaction force at 80 to 90 Hz. Use vibrator with neoprene mat on face of plate or other means as needed to prevent cracking and chipping of cobblestones. Perform at least three passes across paving with vibrator.

1. Compact cobblestones when there is sufficient surface to accommodate operation of vibrator, leaving at least 36 inches of uncompacted cobblestones adjacent to

- temporary edges.
2. Before ending each day's work, compact installed cobblestones except for 36-inch width of uncompact cobblestones adjacent to temporary edges (laying faces).
 3. As work progresses to perimeter of installation, compact installed cobblestones that are adjacent to permanent edges unless they are within 36 inches of laying face.
 4. Before ending each day's work and when rain interrupts work, cover cobblestones that have not been compacted and leveling course on which cobblestones have not been placed with nonstaining plastic sheets to protect them from rain.
- C. Place **locking sand** immediately after vibrating cobblestones into leveling course. Spread and screed **locking sand** level with tops of cobblestones.
1. Before ending each day's work, place **locking sand** in installed permeable paving except for 42-inch width of unfilled paving adjacent to temporary edges (laying faces).
 2. As work progresses to perimeter of installation, place **locking sand** in installed paving that is adjacent to permanent edges unless it is within 42 inches of laying face.
 3. Before ending each day's work and when rain interrupts work, cover paving that has not been filled with nonstaining plastic sheets to protect it from rain.
- D. Remove and replace cobblestones that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.

PART 4 - MEASUREMENT AND PAYMENT

4.1 METHOD OF MEASUREMENT

- A. Cobblestone Paving: Permeable cobblestone pavement for roadway shoulders shall be measured to the nearest Square Foot. No separate measurement or payment will be made for surface preparation, leveling course, placing materials, and filling gaps between cobblestones.

4.2 BASIS OF PAYMENT

- A. Cobblestone Pavement: Payment for accepted permeable cobblestone pavement shall be made at the Contract Unit Price for Pay Item "Cobblestone, Remove, Store and Replace", complete and in place and shall include all costs for surface preparation, leveling course, placing materials, and filling gaps between cobblestones.

END OF JOB SPECIAL PROVISIONS JSP-24



BORING LOCATION PLAN

SHEET 1	LACLEDE'S LANDING 2008082807	KOWELMAN ENGINEERING ST. LOUIS, MO	Designed ___/___/___ Checked ___/___/___ Drawn ___/___/___ dated ___/___/2003	 REITZ & JENS, INC. CONSULTING ENGINEERS 1055 CORPORATE SQUARE DRIVE ST. LOUIS, MISSOURI 63102 (314) 593-4132
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KEY TO BORING LOGS

Symbol Description

KEY TO SOIL SYMBOLS

	COBBLESTONES
	Poorly-graded SAND with traces of fines
	Low plastic Clayey SILT (ML)
	Low plastic Silty CLAY (CL)
	Poorly-graded SAND (SP)
	Well-graded SAND with no fines (SW)
	Silty SAND or Sandy SILT (SM)
	High plastic CLAY (CH)

MISCELLANEOUS SYMBOLS

	Moisture content (%)
	Shear strength from Pocket Penetrometer (tsf)

SOIL SAMPLERS

	Bulk sample taken from 6 in. auger
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Symbol Description

	3-in. O.D. Shelby Tube
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Notes:

1. Borings were made on May 22 and 23, 2008, by Terra Drill, Inc. of Dupu, Illinois. Borings were advanced using 6.75-in. outside diameter, hollow flight augers (HFA).
2. Boring were located in the field by Reitz & Jens and adjusted around the utilities.
3. Borings were logged in the field by a Reitz & Jens' engineer based upon the recovered samples, cuttings and drilling characteristics. Samples were transported to Reitz & Jens' lab for testing. Field logs were revised, if needed, based upon laboratory classification and testing.
4. Stratification lines shown on the log represent approximate soil boundaries; actual changes in strata may be gradual or occur between samples.

Figure 2-0



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-1

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-22-08

FIGURE: 2-1

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES RQD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, 1sf									
									1	2	3							
									STANDARD PENETRATION TEST									
									▲ N-VALUE (BLOWS PER LAST FOOT)									
									MOISTURE CONTENT, %									
									PL -----●----- LL									
									20 40 60									
0						Cobblestones												
1					100	SAND (SP-SM), fine to coarse, poorly graded, very silty, with crushed limestone (1" minus)												
2						With cinders and glass SILT (ML), brown, very clayey, with traces of lignite, moist												
3					100		95.6	26.0										
4																		
5					71	CLAY (CL), brown, silty, with traces of organics and fine gravel, very moist	86.4	32.5										
6						Boring terminated in clay at 5'-6"												

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
METHOD: 6.75" HSA
TYPE OF SPT HAMMER:
HAMMER EFFICIENCY (%):
LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
Y BORING DRY AT COMPLETION OF DRILLING
AT _____ FEET AFTER _____ HOURS
AT _____ FEET AFTER _____ HOURS
PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-2

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-22-08

FIGURE: 2-2

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES ROD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, lbf		
									1	2	3
STANDARD PENETRATION TEST											
▲ N-VALUE (BLOWS PER LAST FOOT)											
MOISTURE CONTENT, %											
PL ———●——— LL											
20 40 60											
0						Cobblestones					
1					100	SAND (SP), dark brown and black, fine to medium grain, with traces of crushed limestone and cinders					
2					100	SILT (ML), grey with brown, slightly clayey, with abundant limonite, moist	103.5	20.9			
3					79	CLAY (CL), brown, silty	95.8	26.0			
5						Boring terminated in clay at 5'-6"					

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER: _____
 HAMMER EFFICIENCY (%): _____
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 _____ Y. BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: **B-3**

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-22-08

FIGURE: 2-3

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES RQD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, tsf										
									Δ QU/2	\blacksquare PP	\square SV	\diamond TV							
										STANDARD PENETRATION TEST									
										\blacktriangle N-VALUE (BLOWS PER LAST FOOT)									
										MOISTURE CONTENT, %									
										PL -----●----- LL									
										20 40 60									
0						Cobblestones													
1					100	SAND (SP), dark brown, fine grain, with traces of fine gravel and crushed limestone													
2					96	With large crushed limestone pieces, cinders, and brick pieces CLAY (CL), brown, very silty, with limonite and iron stains, trace lignite, moist	98.6	25.0											
4					100		92.0	27.6											
5						Boring terminated in clay at 4'-6"													
6																			

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES; ACTUAL STRATIFICATION MAY BE GRADUAL

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER:
 HAMMER EFFICIENCY (%):
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 Y _____ BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-4

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-22-08

FIGURE: 2-4

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES RQD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, tsf				
									QU/2	PP	SV	TV	
									STANDARD PENETRATION TEST				
									▲ N-VALUE (BLOWS PER LAST FOOT)				
									MOISTURE CONTENT, %				
									PL	●		LL	
									20	40	60		
0						Cobblestones							
1					100	SAND (SW), fine to coarse, well graded with crushed limestone, trace silt and clay							
2						With cinders							
3					100	SILT (ML), greenish grey, very clayey, with lenses of moderately plastic clay, traces of limonite and organics, very moist	92.6	30.1					
4						Becoming brown with traces of grey-brown and tan silt							
5					100		88.4	31.8					
6						Boring terminated in silt at 5'-6"							

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6 75" HSA
 TYPE OF SPT HAMMER:
 HAMMER EFFICIENCY (%):
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 _____ Y BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



BORING LOG

PROJECT: Laclède's Landing Pavement Evaluation

BORING NUMBER: **B-5**

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-22-08

FIGURE: 2-5

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES RQD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, 1sT			
									1	2	3	
0						Cobblestones			STANDARD PENETRATION TEST ▲ N-VALUE (BLOWS PER LAST FOOT) MOISTURE CONTENT, % PL ———●———— LL 20 40 60			
1					100	SAND (SP), dark brown, fine to coarse, with crushed limestone up to 4"						
2					100	SILT (ML), brown, with fine sand, traces of clay, very moist	86.9	28.4				
3												
4					100	SILT (ML), brown, clayey, saturated	85.5	31.7				
5						CLAY (CH), brown, high plastic, very moist Boring terminated on something hard at 5'-0"		61.7				
6												

*THE STRATIGRAPHIC COLLUMS REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER:
 HAMMER EFFICIENCY (%):
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-6

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-23-08

FIGURE: 2-6

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES PCQD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, tsf										
									△ QU/2	■ PP	□ SV	◇ TV							
									STANDARD PENETRATION TEST										
									▲ N-VALUE (BLOWS PER LAST FOOT)										
									MOISTURE CONTENT, %										
									PL ————— LL										
									20 40 60										
0						Cobblestones													
1					100	SAND (SP), brown, fine to coarse grain, with concrete fragments and traces of crushed limestone													
2					63	CLAY (CL), light brown, very silty, with 2" crushed limestone, sand, and cinders, trace lignite and iron stains, moist	95.3	26.9											
3						With large limestone pieces of limestone and broken concrete	98.8	23.8											
4						Boring terminated in clay at 4'-0"													
5																			
6																			

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER:
 HAMMER EFFICIENCY (%):
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 _____ Y BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-7

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-23-08

FIGURE: 2-7

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES RQD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, lbf			
									1	2	3	
									STANDARD PENETRATION TEST			
									▲ N-VALUE (BLOWS PER LAST FOOT)			
									MOISTURE CONTENT, %			
									PL	●	LL	
									20	40	60	
0						Cobblestones						
1					100	SAND (SP), dark brown, fine to coarse, with 1" crushed limestone, traces silt						
2					100	CLAY (CL), brown, slightly silty, with brick rubble, 2" crushed limestone, sand, cinders		26.8				
3												
4						Boring refused on brick at 3'-6"						
5												
6												

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER:
 HAMMER EFFICIENCY (%):
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 _____ Y. BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-8

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-23-08

FIGURE: 2-5

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES ROD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, 15'									
									△ QU/2	■ PP	○ SV	◇ TV						
									STANDARD PENETRATION TEST									
									▲ N-VALUE (BLOWS PER LAST FOOT)									
MOISTURE CONTENT, %																		
PL ————— LL																		
20 40 60																		
0						Cobblestones												
1					100	SAND (SP), brown, fine to coarse, with traces of silt												
2					100	CLAY (CL), grey and brown, with cinders, sand, and crushed limestone	86.2	14.0										
3						With less cinders, less sand, and less crushed limestone												
4					100	Boring terminated in clay at 4'-0"		27.6										
5																		
6																		

THE STRATIFICATION LINES AS PRESENT APPROXIMATE SO - GSI BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.25" LISA
 TYPE OF SPT HAMMER:
 HAMMER EFFICIENCY (%):
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 _____ BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-9

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-23-08

FIGURE: 2-9

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES ROD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, lbf			
									1	2	3	
									STANDARD PENETRATION TEST			
									▲ N-VALUE (BLOWS PER LAST FOOT)			
									MOISTURE CONTENT, %			
									PL	●		LL
									20	40	60	
0						Cobblestones						
0.5					100	SAND (SP), dark brown, fine to coarse, with gravel, 1/2" crushed limestone, and cinders						
1.0						Auger refusal on concrete at 1'-0"						
2												
3												
4												
5												
6												

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE IRREGULAR.

DRILLER: Terra Drill
METHOD: 6.75" HSA
TYPE OF SPT HAMMER:
HAMMER EFFICIENCY (%):
LOGGED BY: C. Clark

WATER LEVELS: DURING DRILLING _____ FEET
_____ Y BORING DRY AT COMPLETION OF DRILLING
AT _____ FEET AFTER _____ HOURS
AT _____ FEET AFTER _____ HOURS
PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: B-10

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-23-08

FIGURE: 2-10

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES RQD - ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, lbf			
									1	2	3	
									STANDARD PENETRATION TEST			
									▲ N-VALUE (BLOWS PER LAST FOOT)			
									MOISTURE CONTENT, %			
									PL	●	LL	
									20	40	60	
0						Cobblestones						
1					100	SAND (SP), brown, fine, with traces of 1/2" crushed limestone						
2					92	CLAY (CL), greenish grey, silty, dry	106.7	19.8				
3						Becoming brown with iron stains	103.7	21.7				
4					79	SILT (ML), brown, clayey, with fine sand, moist	95.7	25.0				
5						Boring terminated in silt at 5'-6"						

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER: _____
 HAMMER EFFICIENCY (%): _____
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclede's Landing Pavement Evaluation

BORING NUMBER: **B-11**

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-23-08

FIGURE: 2-11

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES ROD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, 1sf			
									△ QU/2	■ PP	□ SV	◇ TV
									STANDARD PENETRATION TEST			
									▲ N-VALUE (BLOWS PER LAST FOOT)			
									MOISTURE CONTENT, %			
									PL	●		LL
									20	40	60	
0						Cobblestones						
0.5					100	SAND (SP), greyish brown, fine to coarse, with traces of 1/2" gravel						
1.0						Refusal on concrete at 1'-0"						
2												
3												
4												
5												
6												

THE STRATIFICATION LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER: _____
 HAMMER EFFICIENCY (%): _____
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 _____ BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET



REITZ & JENS, INC.
CONSULTING ENGINEERS

BORING LOG

PROJECT: Laclède's Landing Pavement Evaluation

BORING NUMBER: **B-12**

CLIENT: Kowelman Engineering, Inc.

LOCATION:

COORD. N

E

ELEVATION:

DATUM:

DATE DRILLED: 05-22-08

FIGURE: 2-12

SHEET 1 OF 1

DEPTH (FEET)	ELEVATION	Water Table	GRAPHIC LOG	SAMPLE TYPE	PERCENT RECOVERY	MATERIAL DESCRIPTION	DRY UNIT WEIGHT (PCF) BLOWS PER 6 INCHES ROD= ROCK QUALITY DES.	MOISTURE CONTENT PERCENT BY WEIGHT	SHEAR STRENGTH, tsf			
									△ QU/2	■ PP	□ SV	◇ TV
									STANDARD PENETRATION TEST			
									▲ N-VALUE (BLOWS PER LAST FOOT)			
									MOISTURE CONTENT, %			
									PL	LL		
									20	40	60	
0						Cobblestones						
1					100	SAND (SP), greyish brown, fine, with traces of 1/2" crushed limestone, trace silt						
2						CLAY (CL), black, silty, with silt and sand, traces of cinders						
3					75	SILT (ML), brown, clayey, with traces of fine sand	104.8	21.9				
4						Auger refusal at 3'-6"						
5												
6												

THE STRATIFICAL CON. LINES REPRESENT APPROXIMATE SOIL BOUNDARIES. ACTUAL STRATIFICATION MAY BE GRADUAL.

DRILLER: Terra Drill
 METHOD: 6.75" HSA
 TYPE OF SPT HAMMER: _____
 HAMMER EFFICIENCY (%): _____
 LOGGED BY: C. Cook

WATER LEVELS: DURING DRILLING _____ FEET
 _____ Y BORING DRY AT COMPLETION OF DRILLING
 AT _____ FEET AFTER _____ HOURS
 AT _____ FEET AFTER _____ HOURS
 PIEZOMETER: INSTALLED AT _____ FEET