March 14, 2019

CITY OF JOPLIN
JOPLIN MOHASKA WALKING TRAIL
CDBG-DR GRANT NO. B-12-MT-29-0001

Addendum No. 01

Contract Bidders:

Enclosed is Addendum No. 1 for the above referenced project. Please execute, attach, and submit this Addendum No. 1 with your bid.

In addition, please sign and email a copy of this cover letter to Dane Seiler, P.E., CJW Transportation Consultants, LLC, dseiler@gocjw.com as acknowledgement of receipt of this addendum notice.

CJW Transportation Consultants, LLC



Dane Seiler, P.E.
President

_____
Company Name

_____
Signature

_____
Printed Name

CITY OF JOPLIN
JOPLIN MOHASKA WALKING TRAIL
CDBG-DR GRANT NO. B-12-MT-29-001

Addendum No. 01

Clarification Items:

Item #1: Meeting Minutes from Pre-Bid Meeting are attached.

Item #2: Questions and Answers from Pre-Bid Meeting and e-mails are attached.

Item #3: Pre-Bid Sign-in Sheet is attached.

NOTE: The meeting minutes, pre-bid sign-in sheet, and questions and answers are for informational purposes only and shall not be considered as addendum items. Only those items listed below shall be considered addendum items related to the contract.

Special Provisions:

Item#1: Paragraph 7a – Delete and replace with the following:

a. The contractor shall complete all work covered in the agreement including all punch list items by August 16, 2019 except seeding, sodding and planting. Liquidated damages in the amount of two thousand dollars ($2000) shall be assessed in accordance with paragraph 11 of the Agreement for each day all work in the agreement is not completed after August 16, 2019. The contractor shall complete all seeding, sodding and plantings by September 30, 2019. Liquidated damages in the amount of two thousand dollars ($2000) shall be assessed in accordance with paragraph 11 of the Agreement for each day all work in the agreement is not completed after September 30, 2019.

Proposal Items:

Bid Item 36: Revised Item Description to "24-Inch Riprap (Includes 8 oz Non Woven Geotextile)"

Bid Item 74: Added Item 74

Bid Item 75: Added Item 75

Federal Wage Determination:

Item #1: An updated federal wage order is attached and shall replace the federal wage order included in the original bid documents.

Plan Sheets: (Revision notes are on plan sheets)

The following Sheets are included in an attachment.

Sheet 19: Added Wall Detail

Sheet 42A: Sheet Added to set for Bid Item #74

Sheet 46: Corrected detail from 18" to 24" Riprap

MWQ: Added Sheets 4,12-13 from Mohaska Water Quality Set. This is where the pervious concrete is to be installed.

Revised Details:

The following details are included in an attachment and apply to the following sheets

Sheet 48: Add enclosed Pervious Concrete Detail

Sheet 61-66: Add enclosed Sign Post Detail

Job Special Provisions:

Item #1: JSP-0400-01 – Reissued. Replaced Section 2 and Replaced Section 8

Item#2: JSP-2302-01 Pervious Concrete Sidewalk, Section 4.0 & Section 5.0 – Delete and replace with the following:

4.0 MEASUREMENT

Pervious Concrete Sidewalk shall be measured by the square foot of final exposed area of the entire of complete Pervious Concrete Sidewalk.

5.0 PAYMENT

Payment for "Pervious Concrete Sidewalk" shall be at the contract unit price per square foot and shall include the cost of furnishing all labor, equipment, tools, and materials, and the performance of all work necessary to construct sidewalk including Type A curb, aggregate base and all incidental items of work.

Item#3: JSP-7000-01 – Section 5.0, Third Paragraph – Delete and replace with the following:

It is the intent of this contract that all two (2) CMS will be used continuously for the duration of the project to provide information to the public relating to work within the project limits. Locations of CMS shall be coordinated with and approved by the engineer. Contractor shall relocate CMS as necessary.

Item#4: JSP-7000-01 – Section 7.0, Line (d) – Add CMS to list.

Seal

Company Name

Signature

Printed Name

Title

Address

City/State/Zip

Telephone Number

MEETING MINUTES

	Email
	Regular Mail
	Hand Delivery
	Other:

MEETING PURPOSE:	Mandatory Pre-Bid Meeting
NAME OF PROJECT:	Joplin Mohaska Walking Trail
MEETING LOCATION:	Joplin City Hall, 5th Floor Study
DATE & TIME:	March 12, 2019 @ 2:00 P.M.
ATTACHMENTS:	Joplin Mohaska Walking Trail Pre-Bid Meeting Sign-in Sheet

Please review the following notes submitted to the attendees of the above referenced meeting for the purpose of summarizing the important details thereof and to confirm the understanding of the items discussed.

ITEM	TOPIC	DISCUSSION LEADER
	MEETING START (2:00 P.M.)	
1	INTRODUCTION OF TEAM REPRESENTATIVES	D.S.
	Dane Seiler: Start meeting with introductions and everyone proceeded to do so.	
2	SIGN IN	D.S
	Dane Seiler: Everyone must sign in!	
3	GENERAL OVERVIEW OF THE PROJECT	D.S
	Dane Seiler: Overview of the project **10 Foot Walking Trail** • Work Consist of construction of a 10 foot walking trail from Cunningham Park to Main Street including sidewalk reconstruction, curb and gutter reconstruction, driveway reconstruction, retaining walls, storm system modifications, a HAWK Signal installation, and all other miscellaneous work required for completion of the project. **Project Phasing** • Contractor to establish **Lane and Road Closures** • None anticipated **Access for Pedestrians and Vehicles** • Contractor shall provide access to all driveways during construction. **Sidewalk Closure Signage** • Shall comply with ADA & MUTCD requirement	

	Construction Observation and Testing • To be completed by the JET Team **Surveying Services** • See JSP "General Job Special Provisions" JSP-0400-01 • Addendum No. 01 to revise to Contractor Provided **Handrail on 20th Street** • Please read JSP and see Plan Sheet **Cable Fencing in Mohaska Park** • Added with Addendum No. 01 **Job Special Provisions** • Please read them all	
4	UTILITIES	C.C.
	Clayton Christy: Overview on utility relocation **Utilities are in the process of being relocated.** • Jet Team is pushing utility companies to relocate required utilities	
5	BONDING & INSURANCE	D.S
	Dane Seiler: Overview on Bonding & Insurance • Must submit a Bid Bond or Certified Check (5% of total bid) with Sealed Bid • Performance and Payment Bonds are required • Insurance is required – see specifications	
6	KEY DATES	D.S
	Dane Seiler: Overview on Key Dates **Bid Opening** • Date: March 19, 2019 @ 2:00 P.M. • Location: Joplin City Hall, 5th Floor Study **Substantial Completion** • Date: None Required **Final Completion** • Date: August 16, 2019 • Liquidated Damages: $2,000.00 per day	
7	ADDENDUMS	D.S
	Dane Seiler: Overview on Addendums **There will be at least 1 Addendum it will be issued to** • Clarify questions / comments from this meeting • Meeting Minutes of this meeting **Only information received in written form shall be used for bidding requirements.**	
8	SITE AVAILABILITY	D.S
	Dane Seiler: Site is available to all, strongly suggest each contractor submitting a bid to visit site.	
9	FEDERAL REQUIREMENTS	PWC
	Handout presentation by PWC	

10	QUESTIONS & ANSWERS & ADDITIONAL INFORMATION	Open
	Statement from City of Joplin: Due to the Federal requirements and moneys involved the City will not process pay request until all paperwork for that period has been received. **Statement from Dane Seiler:** Adjustment of Sanitary Sewer lids in mill and overlay areas is subsidiary to other items per JSP. **Statement from City of Joplin/Clayton Christy:** Trees shown to be removed are being removed now under another project because of the environmental review. The Contractor will not need to remove them. **Contractor Question:** "When is the Last Day to submit questions?" **Answer Dane Seiler/Clayton Christy:** 12 Noon March 13, 2019.	

PREBID MEETING - JOPLIN MOHASKA WALKING TRAIL

SIGN-IN SHEET - MARCH 12, 2019

	Name	Address or Company	Phone	E-mail
1	Dane Seiler	CJW	(417) 889-3400	dseiler@gocjw.com
2	Aaron Troxel	CJW	(417) 889-3400	atroxel@gocjw.com
3	Brian Black	B3 Contractors	(417) 483 8667	bblack @ b3 contractors.com
4	Eric Benford	Asbell companies	(417) 437-5599	ebenford @ asbellcompanies.com
5	Rusty Snyder	Asbell Ents	417 437-1195	rsnyder@asbell.com
6	Justin Underwood	DALTON-KILLINGER CONST.	417-624-0651	bidfile @ daltonkillinger.com
7		Laborers 319	417 623-5458	
8	Laurence Linams	SPEARS CONST	417 682-9577	doug@sc196.com
9	Rick Spivey	CDL Electric	417-214-1222	richard.spivey@cdl-electric.com
10	Sara Camerer	CAMCOR ENVIRONMENTAL, LLC	417-455-3861	saracamerer04@yahoo.com
11	S F. Davis	SEWMTM	437 0285	sdavis@joplin.com
12	STEVE FOFF	D&E Plumbing	4177255300	DEPLBG01@Yahoo.Com
13	Allen Hall	Branco	417-451-5250	AHALL@BRANCO.COM
14	Seth Spencer	Viriya Consulting	417-291-5537	s.spencer@viriyaconsulting.com
15	Clayton Crisby	JET / Olsson		
16	Dami' Kehinde	GH	2/258-6313	dkehinde@gmail
17	Mark S. Clark	RFB	620-232-2900	Sap@rfbconstructionco.com
18	Tim Massey	Hunter Chase & Associates	417-882-8203	tim@hunterchase.co
19	Rob Beachner	City of Joplin	417-624-0820	rbeachner@joplinmo.org
20				

CITY OF JOPLIN
JOPLIN MOHASKA WALKING TRAIL
CDBG-DR GRANT NO. B-12-MT-29-001

Question and Answers from Pre-Bid and e-mails

The following are questions and answers from the pre-bid meeting and e-mails.

The following answers with clarification shall be utilized for preparing bids.

1. **Will you consider extending the project time frame?**

   A. After consideration it was determined that substantial completion will need to be done by the 16th of August 2019 and all plantings, sodding, and seeding will need to be done by September 30th of 2019

2. **Where is the Turf Reinforcement?**

   In the Mohaska Ditch between Pearl and Moshaska Street as detailed on Sheet 46

3. **Please clarify what you are looking for ADA Barricades, Will they require lights.**

   You will need to supply a barricade that meets Section 6F.14 of the MUTCD (see below). You must have at least two panels. The lower panel must be 2" or less from the ground. The lower panel is for the sight impaired. This allows them to feel it with a walking cane before bumping into the barricade. The panel width needs to be sufficient to cover the entire width of the sidewalk. Generally, that is 5 feet.
   Here's a generic image missing the required signage:



   This one is a proprietary product, missing the required signage:



2009 MUTCD

Section 6F.14 SIDEWALK CLOSED Signs (R9-9, R9-10, R9-11, R9-11a)
Guidance
01 SIDEWALK CLOSED signs (see Figure 6F-3) should be used where pedestrian flow is restricted. Bicycle/Pedestrian Detour (M4-9a) signs or Pedestrian Detour (M4-9b) signs should be used where pedestrian flow is rerouted (see Section 6F.59).
02 The SIDEWALK CLOSED (R9-9) sign should be installed at the beginning of the closed sidewalk, at the intersections preceding the closed sidewalk, and elsewhere along the closed sidewalk as needed.
03 The SIDEWALK CLOSED, (ARROW) USE OTHER SIDE (R9-10) sign should be installed at the beginning of the restricted sidewalk when a parallel sidewalk exists on the other side of the roadway.
04 The SIDEWALK CLOSED AHEAD, (ARROW) CROSS HERE (R9-11) sign should be used to indicate to pedestrians that sidewalks beyond the sign are closed and to direct them to open crosswalks, sidewalks, or other travel paths.
05 The SIDEWALK CLOSED, (ARROW) CROSS HERE (R9-11a) sign should be installed just beyond the point to which pedestrians are being redirected.
Support:
06 These signs are typically mounted on a detectable barricade to encourage compliance and to communicate with pedestrians that the sidewalk is closed. Printed signs are not useful to many pedestrians with visual disabilities. A barrier or barricade detectable by a person with a visual disability is sufficient to indicate that a sidewalk is closed. If the barrier is continuous with detectable channelizing devices for an alternate route, accessible signing might not be necessary. An audible information device is needed when the detectable barricade or barrier for an alternate channelized route is not continuous.

Note: T-Post style posts with two vinyl/plastic reflective panels will suffice.

4. Are the t posts the u shaped ones? (Assumed follow up question to 3)

You should use the same post(s) as a standard Type 3 barricade. The barricade is sized for a sidewalk (5'). All materials must be crash tested, NCHRP 350 Test Level 3 Compliant, so whatever posts and bases that meet the NCHRP criteria will suffice.
This is from the Missouri Standard Plans for Highway Construction, Sec. 616.10AU... http://www.modot.org/business/standards_and_specs/currentsec600.htm

TYPE 1 PORTABLE	SKID FOLD-UP STAND	RIGID	5' RURAL UNDIVIDED HIGHWAYS 7' RURAL DIVIDED HIGHWAYS 7' URBAN HIGHWAYS	PERMITTED ONLY WHERE POST MOUNTING IS NOT FEASIBLE.	SYSTEMS SHALL COMPLY WITH CRASH TEST REQUIREMENTS OF NCHRP 350 TEST LEVEL 3 AND MAY BE PLACED ADJACENT TO OR WITHIN THE ROADWAY PROVIDED A MINIMUM LATERAL CLEARANCE OF 3 FEET, MEASURED HORIZONTALLY FROM THE EDGE OF THE SIGN TO THE EDGE OF DESIGNATED TRAVELED WAY, IS MAINTAINED.

5. Where is the playground equipment to be relocated to?

The Playground Equipment is not to be relocated. Will revise Pervious Pavement JSP

6. Where can I find the detail for trash can?

Trash Can shall be installed per the manufactures recommendations and per the JSP

7. **Will the engineer put out a staking price?**

   The Engineer can provide a staking price to interested parties.

8. **Do you have an Engineer's Estimate?**

   There is an engineer's estimate and it is not publicly available at this time.

9. **Is there an item for Linear Grading?**

   No, Earth Moving will be paid for by Unclassified Excavation and Embankment.

10. **Is there a spec or detail for the pervious concrete? Rock thickness and type? Sometimes there's drainage pipe required?**

    See JSP 2302-01 Pervious Concrete Sidewalk

11. **ADA Tiles, are those to be incidental to the ADA Ramps?**

    Yes, those are incidental to the ADA ramps

12. **There's a detail for a stamped and colored concrete crosswalk but I can't find a pay item, or location on the plans to quantify**.

    There are no stamped and colored crosswalks on the project.

13. **There is a pay item for Low Profile Island, at this time I cannot find a detail or location on the plans**.

    Sheet 42 Shows the Detail for the Low Profile Island

14. **Where is the detail for the cast in place wall?**

    Detail Added to Sheet 19

15. **Can you clarify item 6 in the removals?**

    Power Poles and Guy Wires are to be relocated by others; the City has contacted the appropriate utility for the relocations. All other items shall be relocated to the right of way line.

16. **Drawing Sheet 12-18 of 69 Key note 1 who is responsible for relocation or removal of these items?**

    The Contractor

17. **Drawing Sheet 12-18 of 69 Key note 4 Does not show on plan what trade is responsible for adjustment to existing pull boxes i.e.. Gas, electric, phone. Does not give sizes either.**

    Trade responsible is determined by activity listed in Federal and State Wage Order. The site is and has been available for inspection. Everyone was encouraged to visit the site in the Pre-bid Meeting.

18. **Drawing Sheet 2 of 69 Item number 16 on Schedule I- Traffic Signals are unit of measurement and quantity correct?**

    Yes

PROPOSAL

THE UNDERSIGNED hereby proposes to furnish the labor and material for:

Project:

PUBLIC IMPROVEMENTS FOR
JOPLIN MOHASKA WALKING TRAIL
CDBG-DR GRANT NO. B-12-MT-29-0001

in the City of Joplin, Missouri, according to the Drawings, Contract Documents and general specifications for such work on file in the office of the City Engineer and Director of Public Works, together with the terms and conditions to be stipulated in the general contract forms, now adopted by the City of Joplin, as advertised to be let on **March 19, 2019** at the following prices to-wit:

JOPLIN MOHASKA WALKING TRAIL CDBG-DR GRANT NO. B-12-MT-29-0001 Cunningham to Mercy Park, Mercy Park to Mohaska Park, Mohaska Park to Main Street					
ITEM #	**ITEM DESCRIPTION**	**UNIT**	**QTY.**	**Unit Price Dollars Cents**	**Extended Total Dollars Cents**
1	Mobilization	LS	1		
2	Erosion & Sediment Control	LS	1		
3	Seeding, Fertilizing and Mulching	Acre	2		
4	Sodding	SY	400		
5	Tree Protection	LF	1,000		
6	Demolition	LS	1		
7	Channelizer (Trim Line)	EA	100		
8	ADA Barricade	LF	330		
9	Construction Signs (Total Area)	SF	400		
10	Changeable Message Sign	EA	2		
11	Tree Removal	CAL-IN	240		
12	Curb and Gutter Replacement (Includes Aggregate Base, Tie-Bars, and Any Other Incidental Items)	LF	1,380		
13	Removal of Unsuitable Material	CY	100		

14	Backfill of unsuitable material	CY	100		
15	Unclassified Excavation	CY	2,500		
16	Embankment	CY	1,250		
17	Contaminated Materials	CY	100		
18	Light Pole Relocation	LS	1		
19	Sidewalk Underdrain	LF	25		
20	Low Profile Island	SY	33		
21	Cast-in-Place Concrete Retaining Wall	SF	400		
22	6” Sidewalk Construction (Concrete)	SF	43,900		
23	6” Sidewalk Construction (Reinforced Concrete)	SF	180		
24	6” Sidewalk Ramp (Concrete)	SF	5,260		
25	Hand Rail	LF	390		
26	8” Driveway (Concrete)	SF	6,775		
27	Milling – Greater Than 3” Thick	SY	245		
28	2” Asphaltic Concrete Surface (SP125C Mix)	TON	140		
29	4” Asphaltic Concrete Surface (BP2 Mix) (Impervious Trail)	TON	265		
30	6” Pervious Concrete Sidewalk (Pervious Trail)	SF	6,360		
31	6” MoDOT Type 5 Aggregate Base (Roadway)	SY	1,005		
32	4” MoDOT Type 5 Aggregate Base (Trail)	SY	1,190		
33	Storm Sewer Pipe (48") (Class III RCP, No Substitutions)	LF	70		
34	Pipe Collar (48")	EA	4		
35	Concrete Slope Protection	SY	105		

36	24-Inch Riprap (Includes 8 oz Non Woven Geotextile)	SY	1,320		
37	Concrete Segmental Retaining Wall System	SF	1,032		
38	Park Bench	EA	2		
39	Trash Receptacle	EA	2		
40	Concrete Bollards	EA	11		
41	R1-1 (Stop Sign)	SF	18.0		
42	RS-123 (Stay on Trail)	SF	40.0		
43	D3-1 (Street Name Sign)	SF	8.0		
44	R5-3 (No Motor Vehicles)	SF	8.0		
45	Custom Sign (Private Drive No Thru Traffic)	SF	9.0		
46	W11-2 (Pedestrian)	SF	64.0		
47	W16-2P (Warning Plaques)	SF	10.0		
48	W16-7P (Downward Diagonal Arrow)	SF	8.0		
49	R1-5 (Yield Here to Pedestrians)	SF	72.0		
50	OM3-L (Type 3 Object Marker)	SF	2		
51	OM3-R (Type 3 Object Marker)	SF	2		
52	OM3-C (Type 3 Object Marker)	SF	2		
53	Signal Signs	SF	22.0		
54	Sign Posts	EA	22		
55	24” Solid White Stop Bar	LF	125		
56	24” Yield Shark Teeth	EA	45		
57	Crosswalk Striping	LF	820		

58	Concrete Base for Signals	CY	6.3		
59	Pull Box (Preformed Class 2)	EA	2		
60	Post (35' Mast Arm)	EA	2		
61	Traffic Signal Head Assembly (12"R, 12" R, 12"Y)	EA	6		
62	Pedestrian Signal Head Assembly	EA	2		
63	Pedestrian Push Button Assembly	EA	2		
64	Conduit (2-inch Rigid)(Trenched)	LF	19		
65	Conduit (3-inch)(Trenched)	LF	57		
66	Conduit (3-inch)(Pushed)	LF	68		
67	Cable (6 AWG 1 Conductor)(Power)	LF	100		
68	Cable (16 AWG 2 Conductor)	LF	180		
69	Cable (16 AWG 5 Conductor)	LF	180		
70	Cable (16 AWG 7 Conductor)	LF	260		
71	Power Supply	EA	1		
72	Controller & Cabinet	EA	1		
73	Handrail (along 20th Street))	LF	724		
74	Mohaska Park Fence	LF	125		
75	Adjust Sanitary Sewer Manhole	EA	6		
	TOTAL BID				

The undersigned agrees to enter into a contract within ten (10) days from notice of award should this proposal be accepted, and enter into bonds with good and sufficient securities, to complete the work on or before a date to be specified in the Notice to Proceed, and to have completed all work except seeding, sodding and plantings by August 16, 2019. A penalty of

$2,000 per calendar day thereafter shall be instituted; the amount shall be deducted from the contract price. All seeding, sodding and plantings shall be fully completed by September 30, 2019. A penalty of $2,000 per calendar day thereafter shall be instituted; the amount shall be deducted from the contract price. In order to pay all labor employed and material used in connection with this work and to adjust all claims or liens that may arise in consequence of said work, to the satisfaction of the Director of Public Works, above said bonds shall also indemnify and save harmless the said City from all damages or injuries to any person or persons, either in the employ of the contractor, his agents, servants or employees. In the event of the failure of the undersigned to enter into such contract within ten (10) days of the award, then the deposit or certified check of five percent (5%) of the Total Contract Bid Amount as surety is therefore forfeited to the City of Joplin.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the Contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from the any obligation in respect to his BID.

The low BIDDER shall supply the names and addresses of the major material SUPPLIERS AND SUBCONTRACTORS when requested to do so by the OWNER.

Dated _____day of _____, 20___.

Company _____

Address _____

Signature _____

(Print Name) _____

General Decision Number: MO190001 03/08/2019 MO1

Superseded General Decision Number: MO20180001

State: Missouri

Construction Types: Heavy and Highway

Counties: Missouri Statewide.

HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate,if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/15/2019
2	03/08/2019

CARP0002-002 05/01/2018

ST. LOUIS COUNTY AND CITY

	Rates	Fringes
Carpenters	$ 37.33	17.10

CARP0005-006 05/03/2015

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

	Rates	Fringes
Carpenters:		
CARPENTERS & LATHERS	$ 36.34	15.55
MILLWRIGHTS & PILEDRIVERS	$ 36.34	15.55

CARP0011-001 05/01/2018

	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	$ 31.73	17.10
ATCHISON, ANDREW, BATES, CALDWELL, CARROLL,DAVIESS, DEKALB,GENTRY, GRUNDY, HARRISON, HENRY, HOLT, LIVINGSTON, MERCER, NODAWAY,ST. CLAIR, SALINE AND WORTH COUNTIES	$ 30.24	17.10
AUDRAIN (East of Hwy.19), RALLS, MARION, LEWIS, CLARK AND SCOTLAND COUNTIES	$ 31.74	17.10
BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY,JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON, OZARK, POLK, STONE, TANEY, VERNON, WEBSTER AND WRIGHT COUNTIES	$ 29.85	17.10
BENTON, MORGAN AND PETTIS	$ 30.29	17.10
BOLLINGER, BUTLER, CAPE GIRARDEAU, DUNKLIN, MISSISSIPPI, NEW MADRID, PEMISCOT, PERRY, STE. GENEVIEVE, SCOTT, STODDARD AND WAYNE COUNTIES	$ 31.59	17.10
BUCHANAN, CLINTON, JOHNSON AND LAFAYETTE COUNTIES	$ 30.96	17.10
CARTER, HOWELL, OREGON AND RIPLEY COUNTIES	$ 30.57	17.10
CRAWFORD, DENT, GASCONADE, IRON, MADISON, MARIES, MONTGOMERY, PHELPS, PULASKI, REYNOLDS, SHANNON AND TEXAS COUNTIES	$ 31.58	17.10
FRANKLIN COUNTY	$ 34.93	17.10
JEFFERSON AND ST. CHARLES COUNTIES	$ 37.33	17.10
LINCOLN COUNTY	$ 33.40	17.10
PIKE, ST. FRANCOIS AND WASHINGTON COUNTIES	$ 32.35	17.10
WARREN COUNTY	$ 33.83	17.10

ELEC0001-002 06/03/2018

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	$ 38.12	15.60

ELEC0002-001 09/01/2018

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	$ 39.50	19.96
Groundman & Truck Driver	$ 30.36	16.67
Lineman & Cable Splicer	$ 45.90	22.27

ELEC0053-004 09/02/2018

	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	$ 31.56	14.90
Groundman	$ 29.46	14.29
Lineman Operator	$ 42.24	18.00
Lineman	$ 45.70	19.00
Line Construction; (BATES, BENTON, CARROLL, CASS, CLAY, HENRY, JACKSON, JOHNSON, LAFAYETTE, PETTIS, PLATTE, RAY AND SALINE COUNTIES)		
Groundman Powderman	$ 31.56	14.90
Groundman	$ 29.46	14.29
Lineman Operator	$ 42.24	18.00
Lineman	$ 45.70	19.00

ELEC0095-001 06/01/2017

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

	Rates	Fringes
Electricians:		
Cable Splicers	$ 25.40	12.19
Electricians	$ 26.79	13.86

ELEC0124-007 08/27/2018

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

	Rates	Fringes
Electricians	$ 39.45	22.51

ELEC0257-003 03/01/2018

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	$ 32.50	17.53

ELEC0350-002 12/01/2016

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	$ 30.57	5.93+35%

ELEC0453-001 09/01/2017

	Rates	Fringes
Electricians:		
CHRISITAN, DALLAS, DOUGLAS, GREENE, HICKORY, HOWELL, LACLEDE, OREGON, OZARK, POLK, SHANNON, WEBSTER and WRIGHT COUNTIES	$ 26.15	14.56
PULASKI and TEXAS COUNTIES	$ 30.80	15.03
STONE and TANEY COUNTIES	$ 21.94	13.75

ELEC0545-003 06/01/2017

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

	Rates	Fringes
Electricians:	$ 31.00	15.60

ELEC0702-004 01/01/2019

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

	Rates	Fringes
Line Construction:		
Groundman - Class A	$ 29.48	14.55
Groundman-Equipment Operator Class II (all other equipment)	$ 37.35	16.83
Heavy-Equipment Operator Class I (all crawler type equipment D-4 and larger)	$ 42.59	18.35
Lineman	$ 51.88	21.04

ENGI0101-001 05/01/2016

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 COUNITES

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 33.38	15.92
GROUP 2	$ 32.98	15.92
GROUP 3	$ 30.98	15.92

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) Oiiler 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 04/01/2018

CASS, CLAY, JACKSON,PLATTE AND RAY COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 36.22	17.99
GROUP 2	$ 35.18	17.99
GROUP 3	$ 30.71	17.99
GROUP 4	$ 34.06	17.99

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 05/01/2016

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	$ 30.82	13.30
GROUP 2	$ 29.88	13.30
GROUP 3	$ 30.27	13.30
GROUP 4	$ 28.22	13.30

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; rooter; 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 05/01/2018

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

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 32.96	27.24
GROUP 2	$ 32.96	27.24
GROUP 3	$ 31.66	27.24
GROUP 4	$ 31.21	27.24

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 Spreaker; 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, Cimbing (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 souces including concrete breakers, jackhammers and Barco equipmnet 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 conjenction 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 05/01/2018

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	$ 28.34	27.06
GROUP 2	$ 27.99	27.06
GROUP 3	$ 27.79	27.06
GROUP 4	$ 24.14	27.06

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;

guad-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 mancine; 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 05/02/2018

ST. LOUIS CITY AND COUNTY

	Rates	Fringes

Power equipment operators:

GROUP 1	$ 32.96	27.24
GROUP 2	$ 32.96	27.24
GROUP 3	$ 31.66	27.24
GROUP 4	$ 31.21	27.24

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; athey 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 04/01/2018

	Rates	Fringes
Ironworkers:		
ANDREW, BARTON, BENTON, CAMDEN, CEDAR, CHARITON, CHRISTIAN, COOPER, DADE, DALLAS, DAVIESS, DE KALB, GENTRY, GREENE, GRUNDY, HARRISON, HICKORY, HOLT, HOWARD, LACLEDE, LINN, LIVINGSTON, MERCER, MONITEAU, MORGAN, NODAWAY, PETTIS, POLK, PUTNAM, RANDLOPH, ST. CLAIR, SULLIVAN, TANEY, VERNON, WEBSTER, WRIGHT and WORTH Counties and portions of ADAIR, BOONE, MACON, MILLER and RANDOLPH Counties	$ 30.30	29.44
ATCHISON, BATES, BUCHANAN, CALDWELL, CARROLL, CASS, CLAY, CLINTON, HENRY, JACKSON, JOHNSON, LAFAYETTE, PETTIS, PLATTE, SALINE, AND RAY COUNTIES	$ 33.30	29.44

IRON0321-002 09/01/2018

DOUGLAS, HOWELL and OZARK COUNTIES

	Rates	Fringes
Ironworker	$ 19.95	18.36

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* IRON0396-004 08/01/2018

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	$ 33.96	26.61

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* IRON0396-009 08/01/2018

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	$ 29.49	26.61

IRON0577-005 08/01/2018

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

	Rates	Fringes
Ironworker	$ 26.25	23.10

IRON0584-004 06/01/2018

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

	Rates	Fringes
Ironworkers:	$ 25.00	15.25

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* IRON0782-003 05/01/2018

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	$ 31.63	24.27
All Other Work	$ 26.53	22.39

LABO0042-003 03/07/2018

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Plumber Laborer	$ 32.32	15.50

LABO0042-005 03/07/2018

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Dynamiter, Powderman	$ 32.32	15.32
Laborers, Flaggers	$ 32.32	15.32
Wrecking	$ 32.32	15.32

LABO0424-002 05/01/2016

	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	$ 27.96	13.17
GROUP 2	$ 27.96	13.17
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	$ 27.96	13.17
GROUP 2	$ 27.96	13.17
FRANKLIN COUNTY		
GROUP 1	$ 29.71	13.17
GROUP 2	$ 30.31	13.17
JEFFERSON COUNTY		
GROUP 1	$ 29.76	13.17
GROUP 2	$ 30.36	13.17
LINCOLN, MONTGOMERY AND WARREN COUNTIES		
GROUP 1	$ 31.18	13.32
GROUP 2	$ 31.18	13.32
ST.CHARLES COUNTY		
GROUP 1	$ 3.18	13.32
GROUP 2	$ 31.18	13.32

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 buggie 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 nozzleman; 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; abutement 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

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LABO0579-005 05/01/2018

	Rates	Fringes
LABORER (ANDREW, ATCHISON, BUCHANAN, CALDWELL, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LIVINGSTON, MERCER, NODAWAY and WORTH COUNTIES.)		
GROUP 1	$ 26.16	14.47
GROUP 2	$ 26.51	14.47
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	$ 25.16	13.67
GROUP 2	$ 25.71	13.67

LABORER (LAFAYETTE COUNTY)

GROUP 1	$ 26.71	13.92
GROUP 2	$ 27.06	13.92

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 buggie 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 nozzleman; 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 nozzlemen; 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.

LABO0663-002 04/01/2018

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
LABORER		

GROUP 1	$ 30.18	15.63
GROUP 2	$ 31.39	15.63

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 nozzleman,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 04/01/2018

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	$ 25.93	12.79
Brush and Roll; Taping, Paperhanging	$ 23.93	12.79
Epoxy or Any Two Part Coating; Sandblasting; Stage or other Aerial Work - Platforms over 50 feet high; Lead Abatement	$ 24.93	12.79
Spray; Structural Steel (over 50 feet)	$ 24.93	12.79
Tapers using Ames or Comparable Tools	$ 24.68	12.79

PAIN0003-004 04/01/2017

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

	Rates	Fringes
Painters:		
Bridgeman; Lead Abatement; Sandblast; Storage Bin & Tanks	$ 31.96	16.96
Brush & Roller	$ 29.34	16.96
Drywall	$ 30.34	16.96
Paper Hanger	$ 29.84	16.96
Stageman; Beltman; Steelman; Elevator Shaft; Bazooka, Boxes and Power Sander; Sprayman; Dipping	$ 30.96	16.96
Steeplejack	$ 35.53	16.96

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

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 07/01/2013

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

	Rates	Fringes
Painters:		
Brush and Roller	$ 25.64	13.27
Floor Work	$ 26.14	13.27
Lead Abatement	$ 27.89	13.27
Spray	$ 27.14	13.27
Structural Steel, Sandblasting and All Tank Work	$ 26.89	13.27
Taping, Paperhanging	$ 26.64	13.27

PAIN1292-002 09/01/2016

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	$ 30.85	11.64
Brush & Roller	$ 25.35	11.64
Spray & Abrasive Blasting; Waterblasting (over 5000 PSI)	$ 28.95	11.64

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

PAIN1292-003 09/01/2017

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

	Rates	Fringes
Painters:		
Bridges, Stacks & Tanks	$ 31.05	12.74
Brush & Roller	$ 25.70	12.74
Spray & Abrasive Blasting; Waterblasting (Over 5000 PSI)	$ 28.70	12.74

Height Rates (All Areas):
0ver 60 ft. $0.50 per hour
Under 60 ft. $0.25 per hour.

PAIN2012-001 04/01/2017

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

	Rates	Fringes
Painters:		
Brush & Roller	$ 30.46	16.96
Sandblaster	$ 31.96	16.96
Steeplejack	$ 35.53	16.96

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* PLAS0518-006 03/01/2019

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	$ 24.30	11.61

PLAS0518-007 04/01/2018

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

	Rates	Fringes
Cement Masons:	$ 31.83	17.39

PLAS0518-011 04/01/2018

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 31.71	19.62

PLAS0527-001 04/01/2018

	Rates	Fringes
CEMENT MASON		
FRANKLIN, LINCOLN AND WARREN COUNTIES	$ 30.74	18.07
JEFFERSON, ST. CHARLES COUNTIES AND ST.LOUIS (City and County)	$ 32.66	18.62

PLAS0527-004 06/01/2017

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

	Rates	Fringes
CEMENT MASON	$ 28.10	18.07

PLAS0908-001 05/01/2017

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

	Rates	Fringes
CEMENT MASON	$ 27.60	15.73

PLAS0908-005 05/01/2017

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	$ 27.60	15.73

PLUM0008-003 06/01/2018

CASS, CLAY, JACKSON, JOHNSON, AND PLATTE COUNTIES

	Rates	Fringes
Plumbers	$ 45.34	21.39

PLUM0008-017 06/01/2018

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

	Rates	Fringes
Plumbers	$ 45.34	21.39

PLUM0045-003 09/01/2018

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

	Rates	Fringes
Plumbers and Pipefitters	$ 36.40	23.00

PLUM0178-003 11/01/2018

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

	Rates	Fringes
Plumbers and Pipefitters	$ 30.90	15.35

PLUM0178-006 11/01/2018

BARTON, JASPER, MCDONALD AND NEWTON COUNTIES

	Rates	Fringes
Plumbers and Pipefitters		
Projects $750,000 & under	$ 27.93	15.35
Projects over $750,000	$ 30.90	15.35

PLUM0533-004 06/01/2018

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

	Rates	Fringes
Pipefitters	$ 46.28	21.15

PLUM0562-004 07/01/2018

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	$ 38.91	22.09
Mechanical Contracts including all piping and temperature control work over $7.0 million	$ 40.25	27.68

PLUM0562-016 07/01/2018

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	$ 38.91	22.09
Mechanical Contracts including all piping and temperature control work over $7.0 million	$ 40.25	27.68

TEAM0013-001 05/01/2017

	Rates	Fringes
Truck drivers (ADAIR, BUTLER, CLARK, DUNKIN, HOWELL, KNOX, LEWIS, OREGON, PUTNAM, RIPLEY, SCHUYLER AND SCOTLAND COUNTIES)		
GROUP 1	$ 28.54	12.00
GROUP 2	$ 28.44	12.00
GROUP 3	$ 28.69	12.00
GROUP 4	$ 28.81	12.00
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	$ 29.14	12.85
GROUP 2	$ 29.04	12.85
GROUP 3	$ 29.29	12.85
GROUP 4	$ 29.41	12.85
Truck drivers (FRANKLIN, JEFFERSON and ST. CHARLES COUNTIES)		
GROUP 1	$ 31.63	12.00
GROUP 2	$ 31.74	12.00
GROUP 3	$ 31.74	12.00
GROUP 4	$ 31.85	12.00
Truck drivers (LINCOLN and WARREN COUNTIES)		
GROUP 1	$ 30.28	12.00
GROUP 2	$ 30.39	12.00
GROUP 3	$ 31.43	12.00
GROUP 4	$ 30.50	12.00

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

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TEAM0056-001 05/01/2017

	Rates	Fringes
Truck drivers (ANDREW, BARTON, BATES, BENTON, CALDWELL, CAMDEN, CARROLL, CEDAR, CHARITON, CHRISTIAN, CLINTON, COOPER, DADE, DALLAS, DAVIESS, DEKALB, DOUGLAS, GREENE, HENRY, HICHKORY, HOWARD, JASPER, LACLEDE, LAWRENCE, LINN, LIVINGSTON, MONITEAU, MORGAN, NEWTON, PETTIS, POLK, RANDOLPH, ST. CLAIR, SALINE, VERNON, WEBSTER AND WRIGHT COUNTIES)		
GROUP 1	$ 29.57	12.85
GROUP 2	$ 29.73	12.85
GROUP 3	$ 29.72	12.85
GROUP 4	$ 29.84	12.85
Truck drivers: (ATCHISON, BARRY, GENTRY, GRUNDY, HARRISON, HOLT, MCDONALD, MERCER, NODAWAY, OZARK, STONE, SULLIVAN, TANEY AND WORTH COUNTIES)		
GROUP 1	$ 28.84	12.85
GROUP 2	$ 29.00	12.85
GROUP 3	$ 28.99	12.85
GROUP 4	$ 29.11	12.85
Truck drivers; (BUCHANAN, JOHNSON AND LAFAYETTE COUNTIES)		
GROUP 1	$ 30.78	12.85
GROUP 2	$ 30.89	12.85
GROUP 3	$ 30.93	12.85
GROUP 4	$ 31.00	12.85

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 04/01/2018

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 32.66	15.25
GROUP 2	$ 32.09	15.25
GROUP 3	$ 31.57	15.25

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Mechanics and Welders, Field; A-Frame Low Boy-Boom ruck 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 05/01/2017

ST LOUIS CITY AND COUNTY

	Rates	Fringes

Truck drivers:

GROUP 1	$ 33.30	13.79+a+b+c+d
GROUP 2	$ 33.50	13.79+a+b+c+d
GROUP 3	$ 33.60	13.79+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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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this

contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

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 a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 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. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007

in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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

JOB SPECIAL PROVISION JSP-0400-01
GENERAL JOB SPECIAL PROVISIONS

1.0 COORDINATION OF CONTRACT DOCUMENTS

The contract documents are essential parts of the contract, and a requirement occurring in one shall be as binding as though occurring in all. Contract documents are intended to be complementary and to describe and provide for a complete work. In case of discrepancy among contract documents, the governing ranking will be:

1. Agreement
2. Job Special Provisions
3. General Conditions
4. Project Specific Drawings
5. Special Provisions to City of Joplin, Standard Specifications
6. City of Joplin, Standard Specifications
7. Standard Drawings
8. Bid Items or Quantities
9. All other sections of the contract documents

In case of discrepancies, calculated dimensions will govern over scaled dimensions.

All contractors, including subcontractors, shall not take advantage of any apparent error or omission in the contract documents. If an error or omission is discovered, the engineer shall be notified promptly so corrections and interpretations necessary to fulfill the intent of the contract can be made. A failure to give notice shall render the effects of any error or omission non-compensable and any delay non-excusable.

2.0 CONSTRUCTION STAKING

2.1 SCOPE

2.1.1 The contractor shall furnish all labor, materials and equipment necessary to perform all surveying and staking necessary for the completion of the project in conformance with the drawings and specificatios and standard engineering and surveying practices, including all calculations required to accomplish the work.

2.1.2 The work shall include the staking, referencing and all other actions as may be required to preserve and restore land monuments and property corners which are situated within the project area, and to establish monuments as show on the drawings.

2.2 CONSTRUCTION REQUIREMENTS

2.2.1 All surveying involving property lines or monuments shall be done by, or under the direction of a Registered Land Surveyor licensed in the State of Missouri.

2.2.2 The Engineer will supply information relative to the approximate locations of Monuments and corners, but final responsibility for locations, referencing and restoration shall rest with the Contractor.

2.2.3 In the event the Contractor does not replace the survey monuments and property corners disturbed by the Contractors operations, the Owner may, after first notifying the Contractor, replace the monuments in question.

The cost of such replacements shall be deducted from payments to the Contractor.

2.2.4 The Contractor shall provide the Owner with a copy of all surveyors' notes, prior to the request for final payment, and include the information on the record drawings.

2.2.5 The Contractor shall obtain all information necessary for as-built plan production, from actual measurements and observations made by its own personnel, including Subcontractors, and submit this information to the Engineer.

2.2.6 The Contractor shall use competent, qualified personnel and suitable equipment for the layout work required and shall furnish all stakes, templates, straightedges and other divices necessary for establishing, checking and maintaining the required points, lines and grades.

2.2.7 The Contractor shall perform all staking necessary to delineate clearing and/or grubbing limits; all cross sections necessary for determination of excavation and embankment quantities, including intermediate and/or remeasure cross sections as may be required; all slope staking; all staking of culverts and drainage structures, including the necessary checking to establish the proper location and grade to best fit the conditions on site; the setting of such finishing stakes as may be required; the staking of right-of-way; the staking, referencing and other actions as may be required to preserve or restore land monuments and property corners; and all other staking necessary to complete the project.

2.2.8 Field notes shall be kept in standard bound notebooks in a clear, orderly and neat manner, consistent with standard engineering and surveying practices. The Contractor's field books shall be available for inspection by the Engineer at any time.

2.2.9 All field survey notes, shall be recorded by a notekeeper furnished by the Contractor. The notekeeper shall be thoroughly familiar with generally accepted standards of good survey notekeeping practice.

2.2.10 The Engineer may randomly spot-check the Contractor's surveys, staking and computations at the Engineer's discretion. After the survey or staking has been completed, the Contractor shall provide the Engineer with a minimum of 72 hours notice prior to performing any work, and shall furnish the appropriate data as required, to allow for such random spot-checking; however, the Owner assumes no responsibility for the accuracy of the work.

2.3 MEASUREMENT AND PAYMENT

The Engineer will not measure the specified work for separate payment.

Payment for construction staking shall be subsidiary to the other contract items.

3.0 CONSTRUCTION VIDEO AND PHOTOGRAPHY

3.1 SCOPE

Furnish all labor, materials and equipment necessary to provide high quality color digital audio/video recording and digital photographs of the Project site surface conditions as specified herein. Furnish to the Engineer an original and one copy of a continuous high-quality color audio/video DVD recording of surface conditions along the entire route of the proposed Work. Furnish to the Engineer two prints of the high-quality color digital photographs and one copy of each data storage media device. The Contractor may keep a copy for his/her own records.

The video recording and photographs shall be taken:
1. Prior to any construction activity.
2. After completion of all construction activities.

The Engineer reserves the right to reject audio/video DVD recordings and digital photographs which do not conform to the project specifications. This includes, but is not limited to, poor quality, unintelligible audio or uncontrolled pan or zoom. Any DVD recording or digital photographs rejected by the Engineer will be re-recorded/re-photographed at no cost to the Owner. Under no circumstances shall construction begin until the Engineer has received and accepted the audio/video DVD(s) and photographs.

A qualified, established audio/video recording firm knowledgeable in construction practices and experienced in audio/video recording and photographing of construction projects shall perform the video. If requested, the videographer/photographer shall provide examples of prior work and/or references.

3.2 CONSTRUCTION REQUIREMENTS

The Contractor shall submit the required photos and video prior to the issuance of a Notice to Proceed, during construction as directed by the Engineer, and immediately prior to acceptance of the project. Final payment for the project will not occur until the Contractor has completed this item.

3.2.1 Color Audio/Video and Digital Photography Survey

3.2.1.1 Coverage shall include, but not be limited to, all existing roadways, sidewalks, fences, curbs, driveways, buildings and structures, ditches, above ground utilities, traffic signal and street light cabinets, landscaping, trees, culverts, headwalls, retaining walls, signage and other physical features located within the zone of influence of the construction. Particular and detailed attention shall be given to any defects noted, such as cracks, disturbed areas, damaged items, or as Engineer may direct. The coverage may be expanded if Engineer so directs.

3.2.1.2 All filming or photography will be done during daylight hours. No filming or photography shall be performed if weather is not acceptable, such as rain, fog, snow, etc.

3.2.1.3 It is the intent of this coverage to accurately and clearly document and define pre-existing, post-construction and/or construction conditions to minimize potential construction claims.

Physically mark the excavation areas with highly visible fluorescent paint prior to audio/video recording and photography. The markings shall include stationing information.

3.2.1.4 The Engineer will have the opportunity to accompany the videographer/photographer.

3.2.1.5 Sufficient time will be allowed for the Engineer to review the Audio/Video recording and the digital photographs prior to construction.

3.2.2 Audio and Color Video Recording [Viewable on Windows media]

3.2.2.1 Audio/Video DVDs shall be commercial grade in a standard write protected format. Video system shall have capability of producing hard copy prints of selected individual still frames. Video may be captured originally in Digital Video format, but must be transferred to DVD disc for delivery to the Engineer, and shall be formatted to be played in the Standard Install Windows Media player.

3.2.2.2 Video recordings shall be divided into multiple segments, and a field log listing those segments shall be provided with the original tapes and DVD discs of all recordings. A visual recording of the field notes and log (listing the videotape segments) shall be included at the end of each respective original recording tape. Items to note on the field log include, but are not limited too, the tract number, street or road viewed, filming start- and stop-times, side (of street) being viewed, point starting from, traveling direction and ending destination point. Written documentation must coincide with the information on the disk so as to make easy retrieval of locations sought for at a later date. All original video field notes and logs (signed by the photographer) shall be released to the Engineer.

3.2.2.3 Audio/Video recordings shall begin with a verbal description of the current date and time, the Owner's name, Project or Contract name and number, Contractor's name, and location information such as street name, direction of travel, viewing side, etc. Translucent information consisting of the month, day, year and time of recording must appear on the viewing screen on all video recordings, by electronic means. Information appearing on the DVD must be continuous and run simultaneously by the computer generated translucent digital information. No editing or overlaying of information at a later date will be acceptable.

3.2.2.4 Audio shall be recorded at the same time as the video recording and provide the same information as on the video log sheet. Recordings shall include "continuous" narration identifying the viewing direction, street address or station number location, direction of progress, description of features and the existing condition of improvements or damage within the zone of influence shown on the viewing screen. Identify houses and buildings by house number, when visible, in such a manner that structures of the proposed construction, (i.e. manholes, etc.) can be located by reference. Special commentary will be given for

unusual conditions of buildings, sidewalks and curbing, foundations, trees and shrubbery, etc.

3.2.2.5 The zone of influence shall be defined as an area within the temporary construction easement or public right-of-way as Drawings indicate, or within 35 feet of the proposed Work. The Contractor shall obtain permission from the owners of private property prior to entering private property for the purpose of filming.

3.2.2.6 The rate of speed in the general direction of travel during the recording shall not exceed 100 feet per minute. Panning rates and zoom-in and zoom-out rates shall be controlled sufficiently such that during playback, the picture shall be in focus and maintain clarity at all times.

3.2.2.7 Adequate lighting, to produce the proper detail and perspective, will be required to fill in the shadow area caused by trees, structures, utility poles, road signs, and other such objects in residential areas, or as directed by the Owner's Representative.

3.2.2.8 Engineering station numbers recorded, if applicable, must be continuous, be accurate and correspond to Project stationing. The symbols should be the standard engineering symbols (i.e. 16+64).

3.2.2.9 .All DVDs and cases shall bear labels with the following information:

1. Disk Number
2. Owner's Name
3. Date of Recording
4. Project Name and Number
5. Location of Recording

3.2.3 Digital Photography

3.2.3.1 Photographs shall be captured on digital camera equipment with at least 6-mp memory and delivered on CD-ROM. Original digital image files shall have dimensions of 1500 x 2100 pixels or greater and delivered in TIFF format or JPEG format WITHOUT added compression. Each image must be assigned a unique filename that includes the date of photography.

3.2.3.2 All digital image files shall be printed on color photographic paper in a size no smaller than 2-1/4 x 3-1/4 inches and two printed copies shall be delivered to the Engineer, bound into labeled three-ring binders.

3.2.3.3 Each digital image file must be delivered with matching descriptive information that accurately describes the direction and location of the individual photograph, plus notation of any noteworthy damage that is not readily visible in the image. This information may not be provided as the (editable) image filename, but must be delivered in a permanent form.

3.2.3.4 Sufficient digital photographs shall be taken to document existing features such as roadways, sidewalks, fences, curbings, driveways, buildings and structures, ditches, above ground utilities, traffic signal and street light cabinets, landscaping, subdivision monuments, trees, culverts, headwalls, retaining walls, signage and other physical features located within the zone of influence of the construction. Particular and detailed attention shall be given to any defects noted, such as cracks, disturbed areas, damaged items, or as Engineer may direct. The coverage may be expanded if Engineer so directs.

3.2.3.5 The zone of influence shall be defined as an area within the temporary construction easement or public right-of-way as Drawings indicate, or within 35 feet of the proposed Work. The Contractor shall obtain permission from the owners of private property prior to entering private property for the purpose of taking photographs.

3.2.3.6 Adequate lighting, to produce the proper detail and perspective, will be required to fill in the shadow area caused by trees, structures, utility poles, road signs, and other such objects in residential areas, or as directed by the Owner's Representative.

3.2.3.7 Engineering station numbers recorded (in the image or as a descriptor), if applicable, must be accurate and correspond to Project stationing. The symbols should be the standard engineering symbols (i.e. 16+64).

3.2.3.8 All CD-ROMS and cases shall bear labels with the following information:

1. CD Number
2. Owner's Name
3. Date of Recording
4. Project Name and Number
5. Location of Recording

3.3 MEASUREMENT AND PAYMENT

The Engineer will not measure the specified work for separate payment.

Payment for the audio/video recordings and photographs shall be subsidiary to the other contract items.

4.0 CONSTRUCTION SCHEDULE

4.1 SCOPE

After being awarded the contract, the Contractor shall immediately prepare a Critical Path Method (CPM) schedule for approval by the Engineer that will ensure completion of the project within the contract time. This schedule shall be submitted and approved by the Engineer before a Notice to Proceed is issued. No work on this contract shall begin until said schedule is approved. The Engineer reserves the right to adjust the Contractor's schedule to coordinate with

any other projects in the same area.

4.2 GENERAL REQUIREMENTS

A computerized network diagram shall be included in the CPM schedule and shall serve as the 'Master Construction Schedule' for the Project, giving mathematical analysis (printout) of that network, which verifies and validates logic and planning and defines critical path. The approved schedule shall be kept on site with the superintendent and reviewed with Subcontractors each week. The CPM schedule shall be utilized for planning, organizing, and directing the work, for reporting progress, and requesting payment for work completed. The schedule shall be reviewed each week as part of the progress meeting. Abbreviations used in CPM schedules shall be clearly explained in a legend of symbols, either separate or attached.

4.3 SCHEDULE REQUIREMENTS

The CPM schedule shall clearly show sequential interdependencies, with activity duration and float clearly represented. Sequence(s) of activities with no float shall be clearly identified as Critical Path(s). The scheduling system shall be capable of baseline comparison analysis. Upon development and approval of the schedule, the Contractor shall 'freeze' the initial schedule as the baseline schedule. As work progresses, Contractor shall provide graphics displaying actual progress bars versus baseline or target bars. Activity durations shall be in calendar days.

The CPM schedule shall include pre-construction tasks, construction tasks (bid items), shop drawing submittal and approval process, material and equipment ordering and delivery, submittal of as-built drawings, clean up and punchlist, inspection coordination activities, utility relocation, final inspection and certificate of completion, and final payment. Submittal activities shall be scheduled to allow sufficient time for materials and equipment to be procured and installed, even if the submittal is unacceptable and resubmittal is required. The CPM schedule shall reflect anticipated delays, such as weather delays.

Contractor shall submit the initial schedule, complete revisions, and periodic reports in three hard copies, one reproducible and two prints or plots, and one copy digitally on CD or DVD. This schedule shall include the completed network program consisting of GANTT chart and mathematical analysis within 10 days of the executed contract. Allow 5 days for the Engineer to review. Contractor shall submit the schedule of submittal activities extracted from the master schedule within 10 days after receipt of Notice to Proceed. During the preparation period, Contractor shall review this information with the Engineer.

Submittals to the Engineer of initial and monthly CPM schedule charts shall include three sets of all reports as outlined below. Plots shall be color, blueline, printed or photocopied prints and, if segmentally generated, fully assembled. Highlight the critical path when the critical path is not clearly defined.

The Contractor will participate in the Engineer's review and evaluation of submitted network diagrams and mathematical analysis of diagrams. Resubmit revisions necessary due to review within 5 days after the review. Contractor and major Subcontractors shall review the network CPM schedule before final submittal.

4.4 REPORT FORMATS

Standard set of reports submitted each month including initial submittals shall consist of a GANTT chart of entire project. Progress bar chart shall include target or baseline comparison bars. Bar positions shall be early start/early finish with float clearly defined. GANTT charts shall include a tabulation of each activity. For each activity on the GANTT charts furnish the following:

1. Initial/submittal schedule shall include a list of responsible contractors and suppliers, task description, duration, start date, end date, latest start date, latest end date, total slack or float time in calendar days and current schedule bar in Gantt view.

2. Progress schedule updates shall include a list of responsible contractors and suppliers, task description, duration, actual start date, actual finish date, percentage completion, remaining duration in calendar days and current schedule bar in Gantt view.

Graphics outlined above shall comply with the following criteria unless noted otherwise:

4.4.1 Sheet size of diagram shall be 11 by 17 inches minimum and time scaled in month as the major timescale and weeks as the minor timescale unless approved otherwise.

4.4.2 On each page include a title block containing the following minimum information;
1. Project Title
2. Project Number
3. Contractor’s Business Name
4. Date of Submittal and Revision (The Date shown must clearly show the current preparation date and separately the revision date of the current schedule - this is a hard date entered and not an auto or status date)
5. Submit a separate Legend Page of Symbols and Abbreviations as applicable.

4.4.3 Prepare and submit to the City Engineer upon request additional charts, reports, and current digital copy of the project schedule.

4.5 CPM SCHEDULE IMPLEMENTATION AND MONITORING

Monthly CPM schedule charts and reports shall accompany the Contractor's pay request for work completed. Where the Contractor is shown to be behind schedule, provide accompanying written summary, cause, and explanation of planned remedial action. CPM schedules shall reflect those instances, modifications or other alterations to the schedule, which have an impact on the final completion or interim target dates within the schedule. Payments or portions of payments may be withheld by the City Engineer, upon failure to maintain scheduled progress of the work as shown on the approved CPM schedule. Failure to prepare, submit and maintain a CPM schedule as specified shall be cause for rejection of other schedules submitted and for possible delay of payment. Float time belongs to the project, not to the Contractor or to the Engineer, and may be utilized by both parties.

4.6 SCHEDULE CHANGES AND UPDATES

At a minimum the Contractor shall update and submit the CPM Schedule for review weekly. A weekly update is required unless agreed upon by the Engineer. Monthly submittal of the CPM schedule and approval by the Engineer is required prior to payment for work completed. Activities added to the CPM schedule shall be submitted by the Contractor on schedule charts. It is the Engineer's intent that the project be managed and operated according to the CPM schedule. Payment requests may be held up until the CPM schedule is brought back into compliance with the contract documents.

Once the CPM schedule is submitted and approved by the Engineer the Contractor shall identify any modifications to activity durations, logic, values, or descriptions resubmit for approval. Such adjustments shall not impact the contracted completion date.

4.7 MEASUREMENT AND PAYMENT

No measurement or payment will be made for this item. This item shall be subsidiary to other bid items.

5.0 UTILITY COORDINATION

5.1 SCOPE

It shall be the duty of the Contractor to notify the serving utility companies of pending construction operations and the schedule of same, prior to any work being done on this project. The utility companies will relocate and adjust their own facilities at no cost to the Contractor, except for sanitary and storm sewers. The Contractor shall be responsible for the adjustment and protection of all sanitary and storm sewer facilities. Some minor grading and backfill work may be required of the Contractor at locations of utility adjustments. This work shall be considered subsidiary to other items of work.

The Contractor shall be responsible for holding periodic utility meetings with the City, the Engineer, and utility companies during the relocation of utility lines. The frequency of meetings will initially be bi-weekly (or more frequently if necessary) and then, as relocation work begins to diminish, will be held more infrequently. The Contractor shall keep minutes of the meetings and send copies to all those in attendance.

5.1.1 STATUS OF UTILITIES

Empire will be relocating power pole during construction.

The cable company is on Empire poles.

The gas company will be relocating any conflicts during construction.

The phone company will work with the contractor to relocate any conflicts during construction.

The water company will be relocating fire hydrants at some intersections during construction.

5.2 MEASUREMENT AND PAYMENT

This work shall be considered subsidiary to other items of work.

6.0 NOTIFICATION OF PROPERTY OWNERS

The Contractor shall provide advance notification to the adjacent property owners on all phases of the operations. At a minimum, the following notifications in the form of informational door hangers shall be placed on main entry doors of each resident by the contractor:

1. Two weeks prior to beginning construction activities in front of the residence.
2. Two weeks prior, and 48 hours prior, to any construction activity that restricts the use of driveways or any other access to the residence.

Direct verbal notification with the resident by the contractor is required immediately prior to removal of access to any residence. Time shall be allowed by the contractor for the resident to remove all vehicles and equipment on their property prior to driveway removal.

7.0 NOTIFICATION OF SERVICE PROVIDERS

The Contractor shall provide advance notification to all local emergency operation providers including but not limited to Fire, Police, and Ambulance 48 hours prior to any disruption to traffic flow or access.

The contractor shall provide advance notification to all public local service providers including but not limited to school bus, post office, and solid waste removal 48 hours prior to any disruption to traffic flow or access.

The contractor shall coordinate with the property owner and the solid waste removal service provider to determine when impacts to waste removal will occur within the construction zone. When impacts to waste removal occur within the construction zone the contractor shall move the waste containers to the edge of the construction zone where the service provider can access them. If a resident has set out a bulky item for waste removal the contractor shall contact the service provider for instructions. The contractor shall acquire the current Joplin Residential Trash Collection Map from the Engineer.

8.0 ADDITIONAL PAYROLL SUBMITTAL PROCEDURES

All Federal and State payroll requirements must be met in addition to the items below.

8.1 The following items shall be submitted by the Notice To Proceed Date:

8.1.1 Letter showing who is authorized to sign payrolls (including subcontractors)

8.2 The following items must be submitted within two weeks of the Notice to Proceed:

8.2.1 Signed deduction forms for standard employee deductions (examples available upon request)

8.2.2 A proposed spreadsheet (Excel) for payroll review (must address all payroll items including deductions)

8.3 All payrolls must be reviewed and initialed by the general contractor prior to submittal.

8.3.1 This includes reviewing the following:

8.3.1.1 Correct Payroll Number

8.3.1.2 Correct Project Name and Number

8.3.1.3 Date at top of form is the same as the date on the last page

8.3.1.4 Wage Rates

8.3.1.5 Payment is correctly calculated

8.3.1.6 Deductions are properly documented

8.3.1.7 Spelling

8.3.1.8 Signatures

8.3.1.9 Dates

8.3.1.10 Boxes checked correctly

8.3.1.11 Four Digit Code for each employee

8.3.1.12 Apprenticeship- State approved documentation/programs for apprentices

8.3.1.13 Employee information must be by the person given name or a signed statement with the substitute name must be submitted.

8.3.1.14 Wet Signatures

8.3.1.14.1 Original Payrolls with wet signatures must be submitted for final project compliance.

8.3.1.14.2 Emailed payrolls will used for review prior to receiving original wet signature payrolls.

8.3.1.14.3 Wet signature payrolls must be reviewed by GC to confirm they match emailed versions

Repeated errors for items above will cause delays in review of payrolls.

If repeated errors occur the general contractor will be required to fill out a check list with the above items for each payroll.

8.4 The following shall apply to page 2 deductions:

8.4.1 Deductions must be listed for all A, B, C, & D deductions

8.4.2 Percentages for deductions or dollar amounts must be listed specifically

8.4.3 The deduction description must be specific for each deduction

8.4.4 Garnishments and loans will require proper documentation

8.4.5 The general contractor shall review deductions for proper documentation

8.5 General Information regarding deductions:

8.5.1 A letter must be sent explaining how the deductions apply to all employees.

8.5.2 Deduction forms detailing deductions with employee signature will be required for all other deductions.

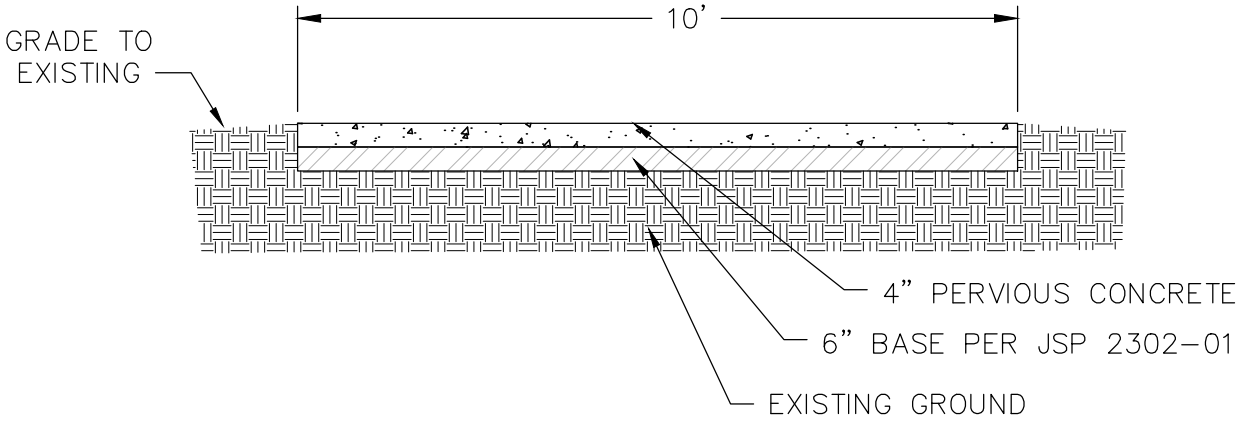
8.6 Email submittal must include the following

8.6.1 In the subject line shall be the Project Name and Number

8.6.2 Submitted items must be in separate files
(Example: Payrolls, OSHA Cards, Deduction forms etc.)

8.6.3 Files must be pdfs

8.6.4 Spreadsheet in Excel format showing payroll items for each payroll



TYPICAL PATH PERVIOUS CONCRETE CROSS SECTION USED BETWEEN STATION 54+00 TO 59+00

NTS

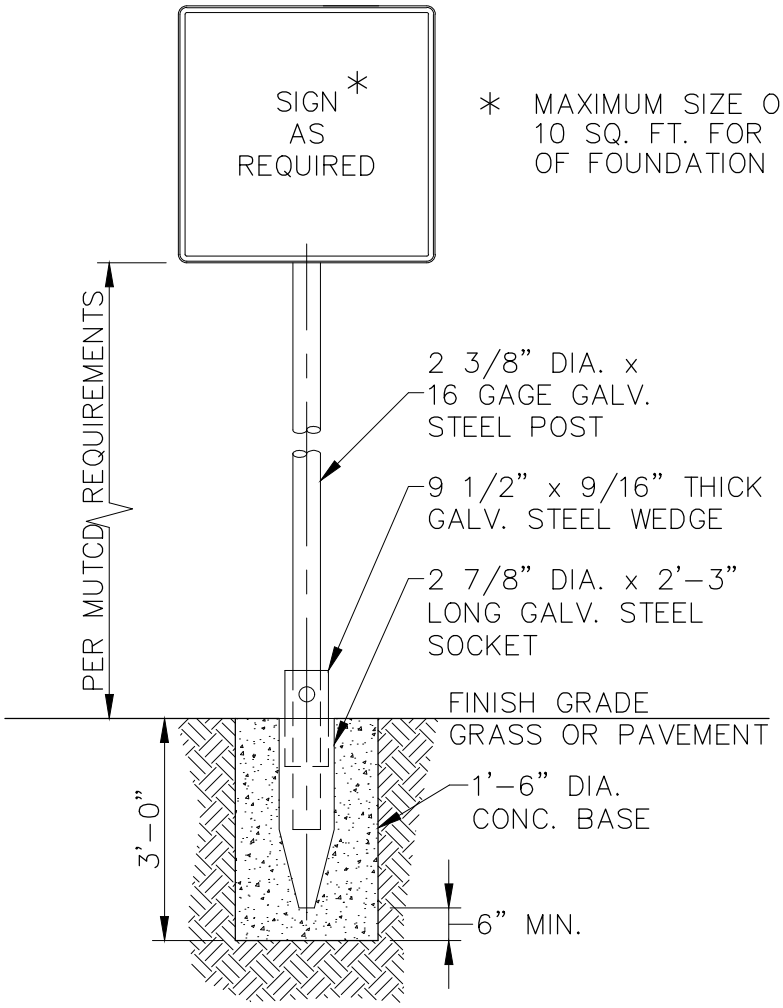
5051 S. National Avenue
Suite 7A
Springfield, MO 65810
Tel: 417.889.3400
Fax: 417.889.3402

CITY OF JOPLIN
JOPLIN MOHASKA WALKING TRAIL

ADDENDUM 1

DATE: March 14, 2019 *CHECKED BY: CJW*
JOB NO. 16006 *DRAWN BY: CJW*

CJW Transportation Consultants, L.L.C.
www.GoCJW.com



SIGN BASE NOTES

1. CONCRETE SHALL BE MINIMUM 4,000 PSI AT 28 DAYS.
2. TOP OF FOOTING SHALL BE FLUSH WITH ADJACENT GRADE.
3 MAXIMUM SIGN SIZE FOR FOOTING SIZE SHOWN (1'-6" DIA. x 3'-0" DEEP) SHALL BE 10 SQ. FT.
4. SIGN POST SHALL BE 2 3/8" DIA. x 16 GAGE GALVANIZED STEEL.
5. POZ-LOC ANCHOR SYSTEM SHALL BE 16 GAGE GALVANIZED STEEL.
6. FOR LARGER SIZE SIGN, SIZE OF FOUNDATION TO BE DETERMINED BY ENGINEER.

SIGN BASE DETAIL
WITH POZ-LOC ANCHOR SYSTEM

N.T.S.

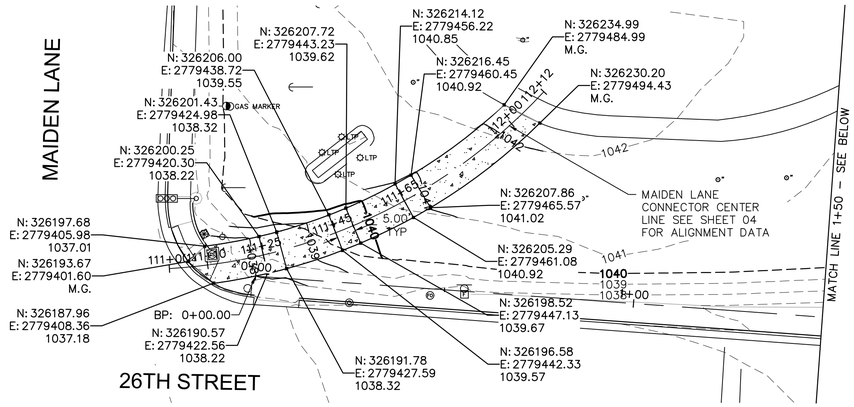
5051 S. National Avenue
Suite 7A
Springfield, MO 65810
Tel: 417.889.3400
Fax: 417.889.3402

CITY OF JOPLIN
JOPLIN MOHASKA WALKING TRAIL

ADDENDUM 1

DATE: March 14, 2019 *CHECKED BY: CJW*
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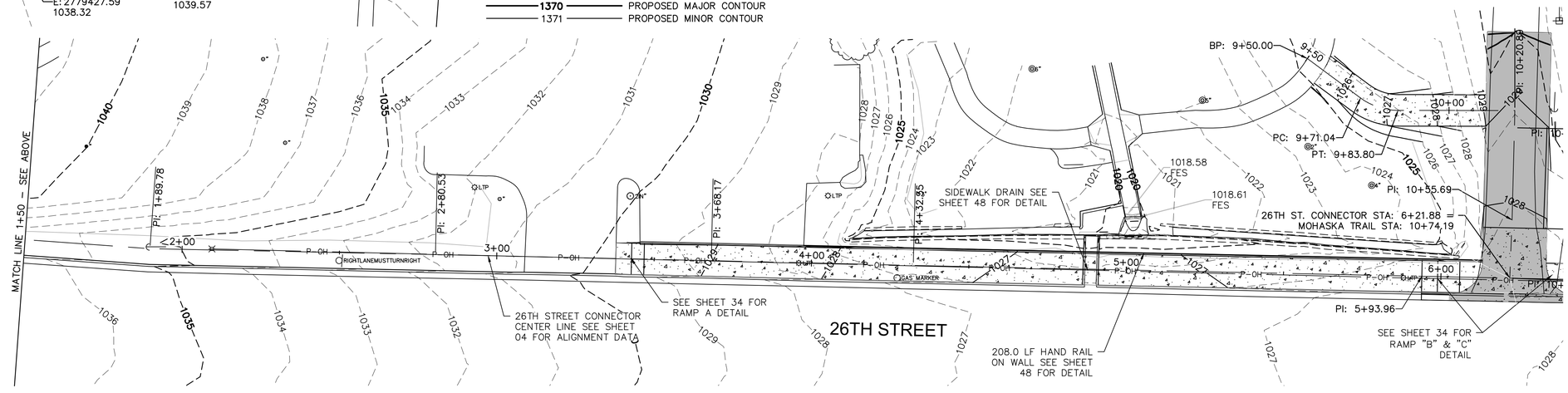


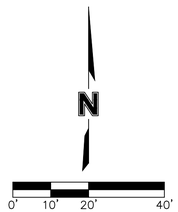
LEGEND:

SWK:	– SIDEWALK ELEVATION	SWK:	– SIDEWALK ELEVATION
PAV:	– PAVEMENT ELEVATION	CONST.:	– CONSTRUCTION
BOC:	– BACK OF CURB ELEVATION	TBM:	– TEMPORARY BENCHMARK
EOP:	– EDGE OF PAVEMENT	C.P.:	– CONTROL POINT
EOS:	– EDGE OF SHOULDER	D.N.D.:	– DO NOT DISTURB
R:	– ADA ACCESSIBLE RAMP	U.I.P.:	– USE IN PLACE
L:	– ADA ACCESSIBLE LANDING	ADJ.:	– ADJUST
PL:	– PROPERTY LINE	EL:	– ELEVATION
R/W:	– RIGHT–OF–WAY LINE	ESMT:	– EASEMENT
T.C.E.:	– TEMP. CONSTRUCTION EASEMENT	GFL:	– GUTTER FLAG
M.G.:	– MATCH GRADE	SL:	– SLOPE LIMITS
TYP.:	–TYPICAL	B–B:	– BACK OF CURB TO BACK OF CURB DIMENSION

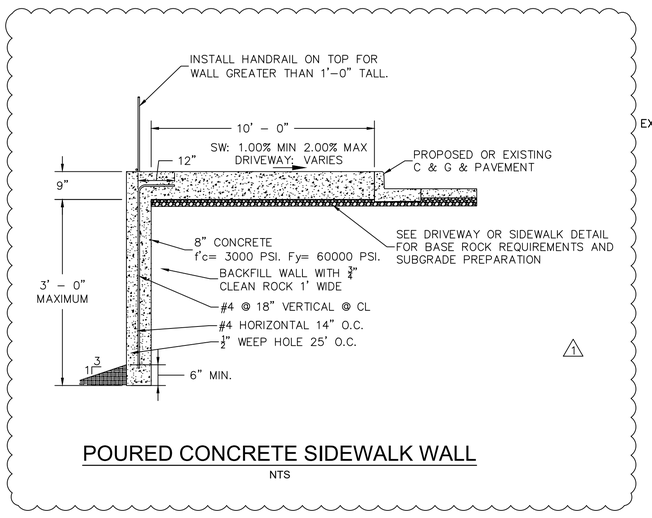
1370 EXISTING MAJOR CONTOUR
1371 EXISTING MINOR CONTOUR
1370 PROPOSED MAJOR CONTOUR
1371 PROPOSED MINOR CONTOUR

EXISTING RIGHT–OF–WAY
PROPOSED RIGHT–OF–WAY
TEMPORARY CONSTRUCTION EASEMENT
PERMANENT SIDEWALK EASEMENT
– PROPOSED CONCRETE SIDEWALK
– PROPOSED CONCRETE DRIVEWAY
– PROPOSED STREET/ALLEY/PARKING LC
– PROPOSED MILL AND OVERLAY
– PROPOSED ASPHALT TRAIL



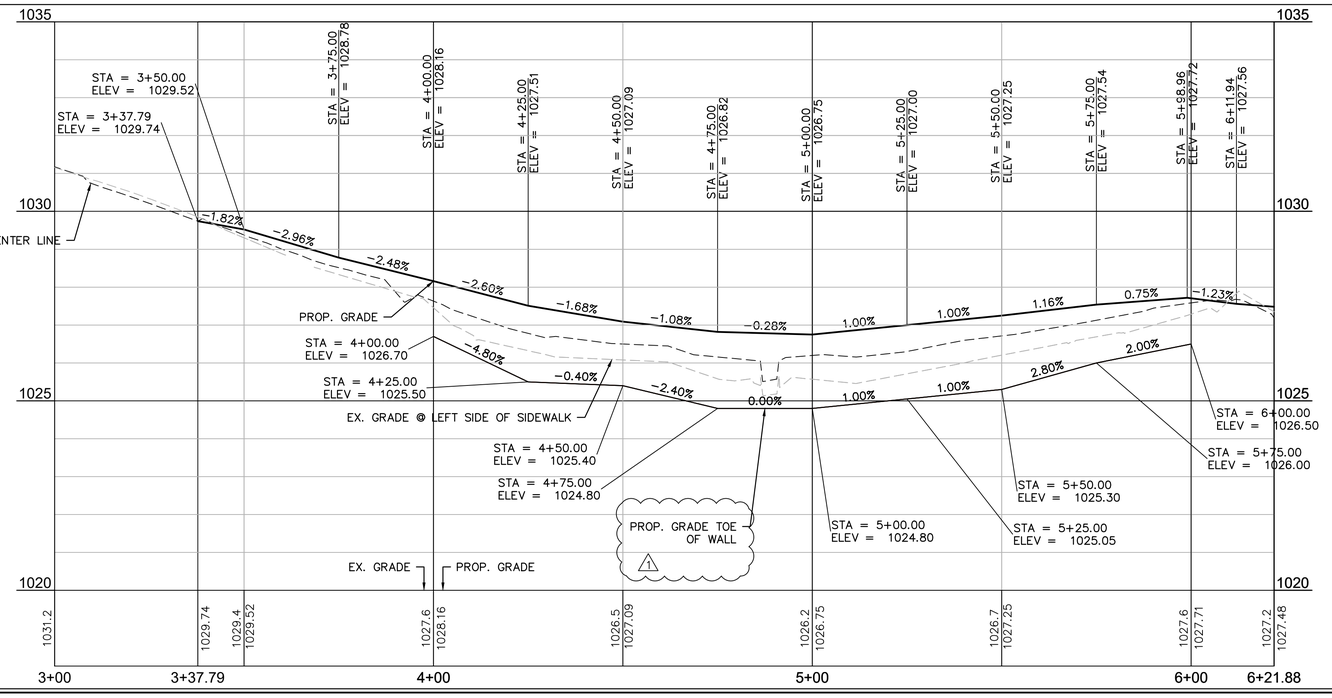


MISSOURI ONE CALL SYSTEM
1-800-DIG-RITE = 811
www.mo1call.com



POURED CONCRETE SIDEWALK WALL

NTS



CJW
5051 S. National Avenue
Suite 7A
Springfield, MO 65810
TEL 417.889.3400
FAX 417.889.3402
www.gocjw.com
CJW Transportation Consultants, LLC - MO State Certificate of Authority #2006012385

JOPLIN, MO STRONGER. SAFER. SMARTER
JET JOINT ENGINEERING TEAM

STATE OF MISSOURI
DANE MITCHELL SEILER
NUMBER PE-2010018956
2-20-19
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03/14/2019	ADDENDUM NO. 1

REVISIONS

PLAN & PROFILE

JOPLIN MOHASKA WALKING TRAIL
CITY OF JOPLIN

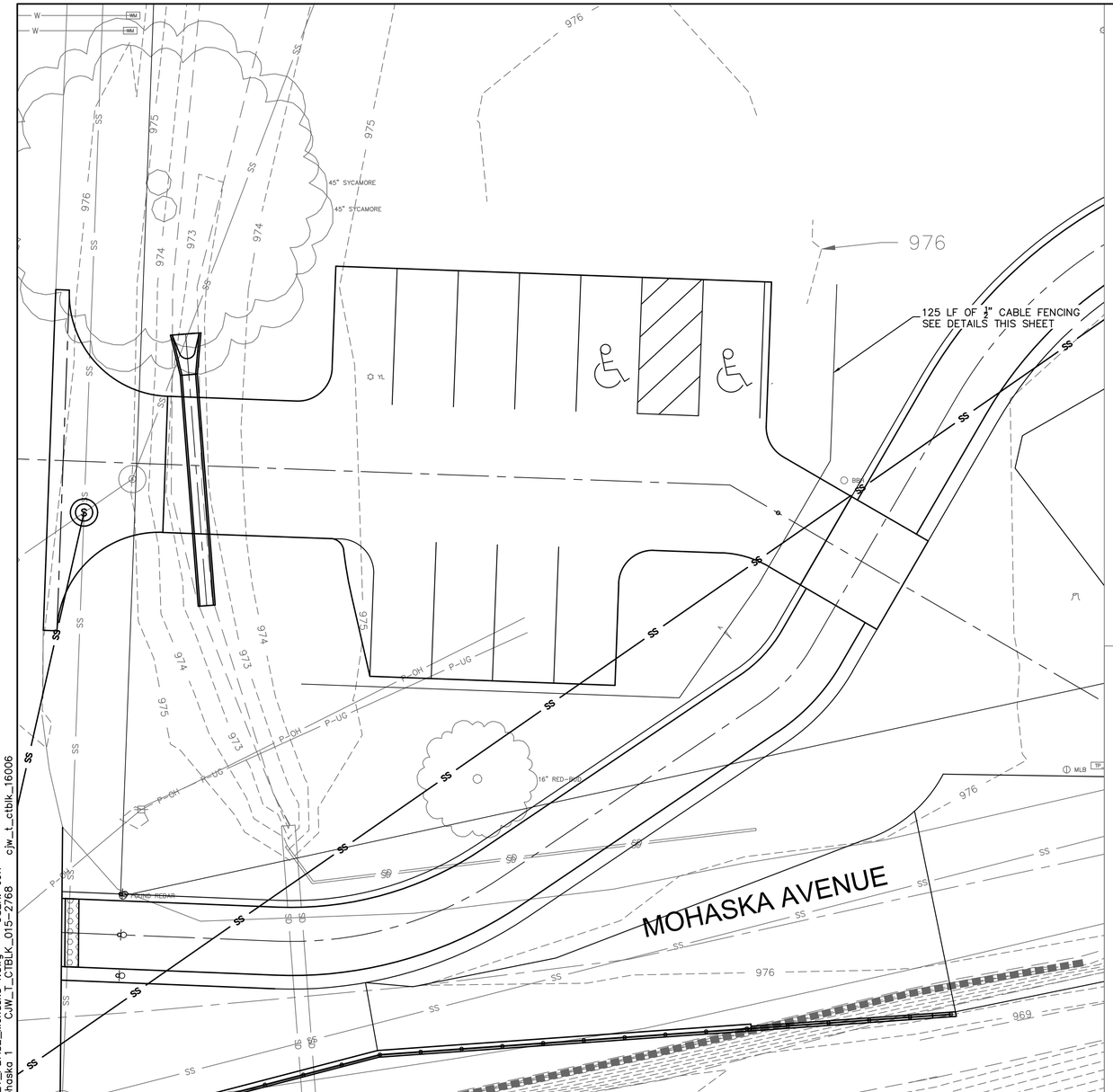
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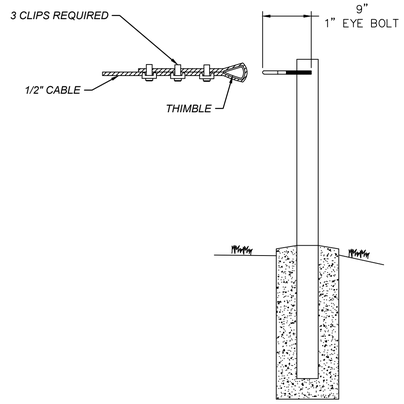
JOPLIN, MISSOURI

drawn by:	CJW
designed by:	CJW
checked by:	CJW
project no.:	16006
drawing no.:	
date:	02-04-2019

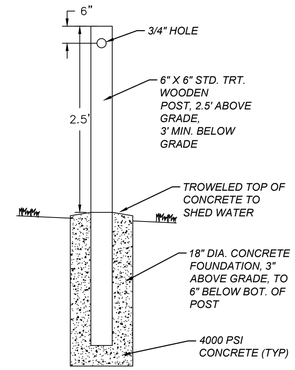
SHEET
19 *of* 69

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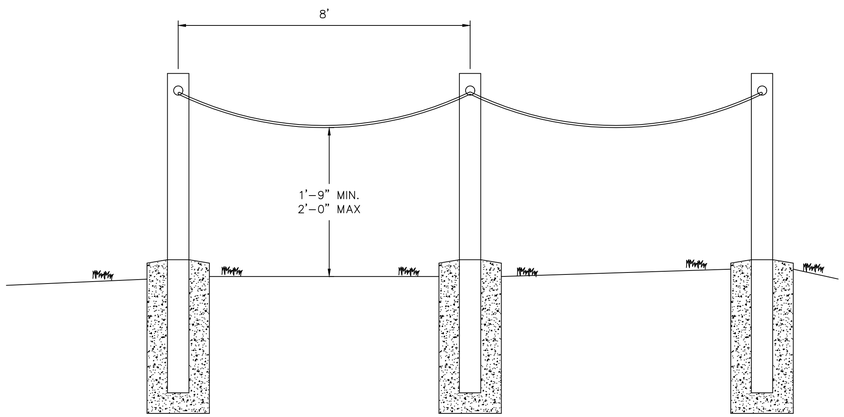




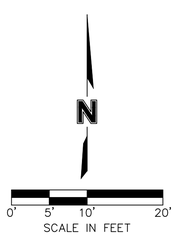
WOODEN POST W/EYE LOOP
NTS



WOODEN POST
NTS



SAG DETAIL
NTS



CJW
TEL 417.889.3400
FAX 417.889.3402
www.gocjw.com
5051 S. National Avenue
Suite 7A
Springfield, MO 65810
Civil Transportation Consultants, LLC - MO State Certificate of Authority #2006012385

JOPLIN, MO
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JET JOINT ENGINEERING TEAM

STATE OF MISSOURI
JANE MITCHELL SEILER
NUMBER
PE-2010019595
2-20-19
PROFESSIONAL ENGINEER

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03/14/2019	ADDENDUM NO. 1

CABLE FENCE DETAIL

JOPLIN MOHASKA WALKING TRAIL
CITY OF JOPLIN

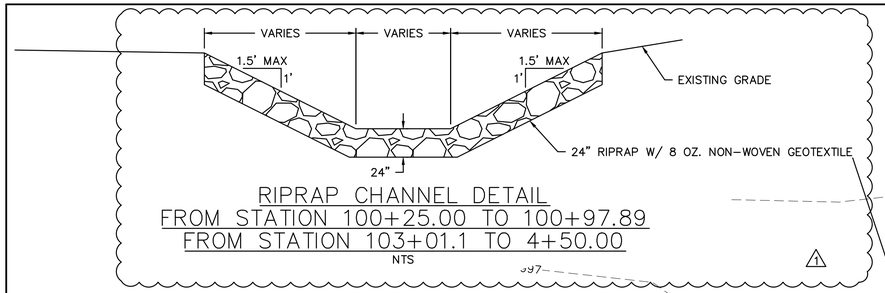
JOPLIN, MISSOURI

2018

drawn by: CJW
designed by: CJW
checked by: CJW
project no.: 16006
drawing no.:
date: 02-04-2019

MISSOURI ONE CALL SYSTEM
1-800-DIG-RITE = 811
www.moecall.com

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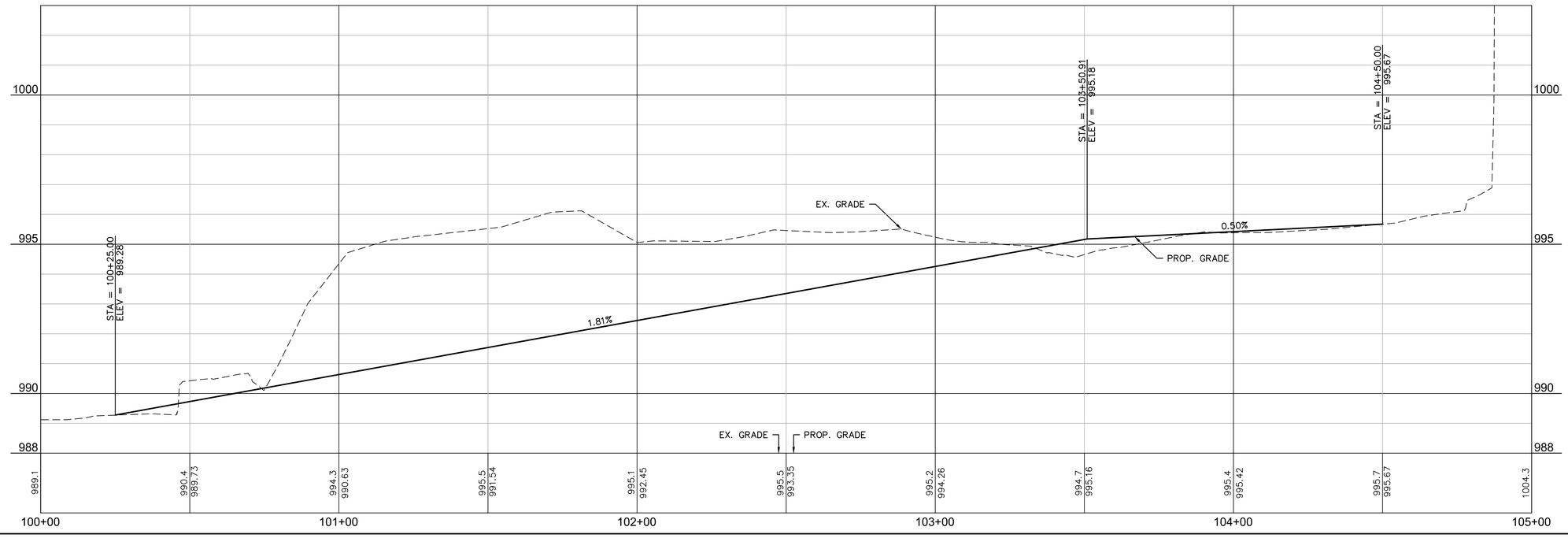


RIPRAP CHANNEL DETAIL
FROM STATION 100+25.00 TO 100+97.89
FROM STATION 103+01.1 TO 4+50.00
NTS

RIPRAP CHANNEL DETAIL
FROM STATION 100+97.89 TO 103+01.1
NTS

0' 10' 20' 40'
SCALE IN FEET

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CJW
TEL 417.889.3400
FAX 417.889.3402
www.gocjw.com
5051 S. National Avenue
Suite 7A
Springfied, MO 65810
Cert Transportation Consultants, LLC - MO State Certificate of Authority #2006012385

JOPLIN, MO
STRONGER, SAFER, SMARTER
JET JOINT ENGINEERING TEAM

STATE OF MISSOURI
JANE MITCHELL SEILER
NUMBER PE-2010019597
2-20-19
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION
1	03/14/2019	ADDENDUM NO. 1

REVISIONS

STORM PLAN

JOPLIN MOHASKA WALKING TRAIL
CITY OF JOPLIN

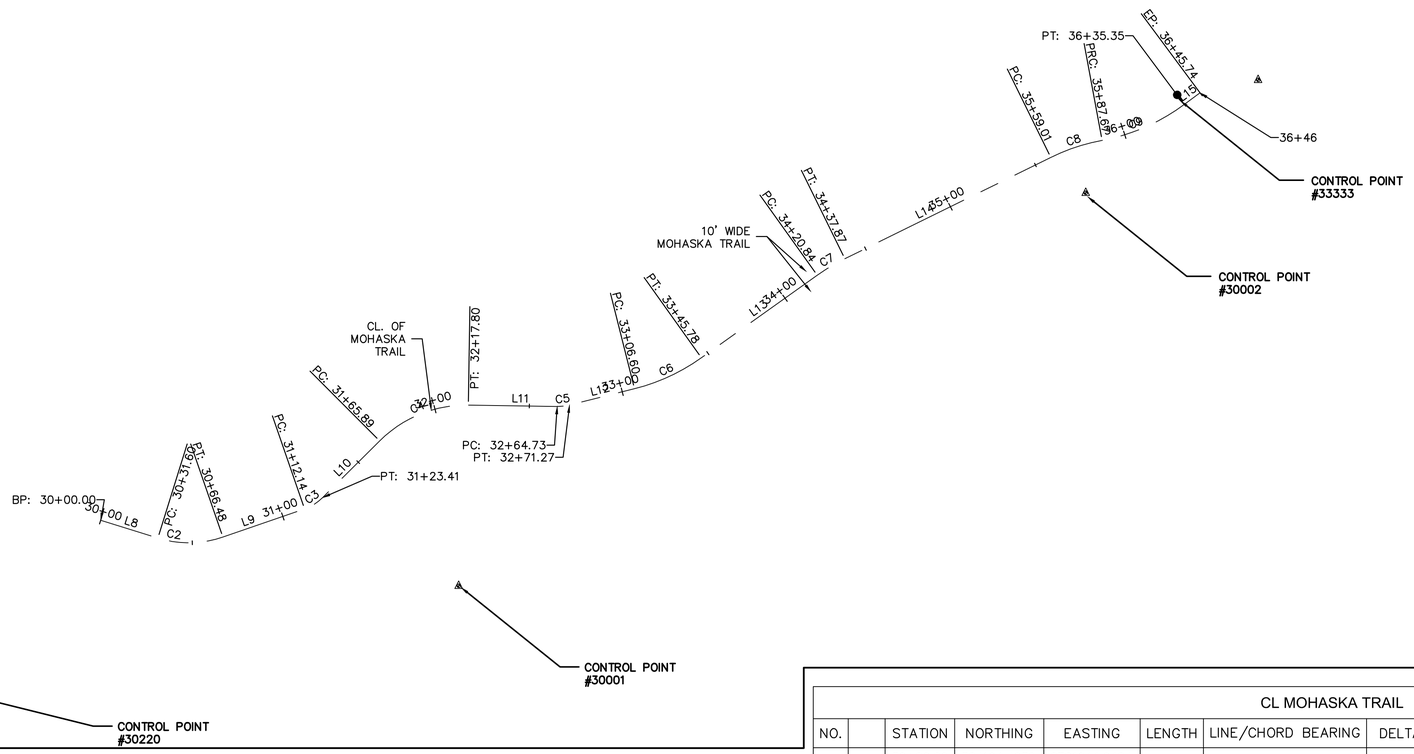
2018

JOPLIN, MISSOURI

drawn by: CJW
designed by: CJW
checked by: CJW
project no.: 16006
drawing no.:
date: 02-04-2019

SHEET
46 *of* 69

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CONTROL POINT DATA

CONTROL POINT #30001
PK NAIL LOCATED NEAR THE SOUTH EOP OF MOHASKA AVENUE.
RM1) 12.9' NW TO THE CENTER OF SEWER MANHOLE
RM2) 6.3' S TO CENTER OF RETAINING WALL
RM3) 8.1' NE TO CENTERLINE OF MOHASKA AVE.
N=324209.97
E=2782136.47

CONTROL POINT #30002
PK NAIL LOCATED NEAR THE SOUTH EOP OF MOHASKA AVENUE.
RM1) 47.9' N TO CENTER OF 50" DEAD TREE
RM2) 25.6' SE TO CENTER OF POWER POLE
RM3) 59.6' SW TO CENTER OF 10" ELM TREE
N=324496.03
E=2782402.50

CONTROL POINT #30220
1/2" IP LOCATED 1' W OF WEST CURB AT THE SW CORNER OF JACKSON & MOHASKA INTERSECTION.
RM1) 1' E TO BACK OF CURB
RM2) 3' SW TO FIRE HYDRANT
RM3) 33.4' NE TO SANITARY MH
N=324088.28
E=2781908.30

CONTROL POINT #33333
COTTON SPINDLE LOCATED NEAR THE SE CORNER OF THE INTERSECTION OF SERGEANT AND MOHASKA.
RM1) 5.9' NW TO CENTER OF LIGHT POLE
RM2) 14.3' E TO CENTER OF SEWER MANHOLE
RM3) 4.6' W TO CENTER OF TELEPHONE PEDESTAL
N=324558.38
E=2782435.74

BENCHMARK DATA

B.M. #1 = ELEV. 1004.95 (U.S.G.S. NAVD 88 DATUM)
ALUMINUM MONUMENT AT THE NORTHEAST CORNER OF 32ND ST. & McCLELLAND BLVD. (NOT IN PLAN VIEW)

B.M. #2 = ELEV. 976.23 (U.S.G.S. NAVD 88 DATUM)
CHISELED SQUARE ON BACK OF CURB NEXT TO FIRE HYDRANT AT THE SOUTHWEST CORNER OF THE INTERSECTION OF JACKSON & MOHASKA.

CL MOHASKA TRAIL

NO.		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS	DESCRIPTION
L8		30+00.00 30+31.60	324194.4636 324193.1911	2781944.9424 2781976.5150	31.60'	S87°41'31"E				CL. OF 10' WIDE MOHASKA TRAIL
C2	PC= PI= PT=	30+31.60 30+49.65 30+66.48	324193.1911 324192.4641 324202.5662	2781976.5150 2781994.5512 2782009.5105	34.88'	N74°08'18"E	36°20'22"	18.05'	55.00'	
L9		30+66.48 31+12.14	324202.5662 324228.1177	2782009.5105 2782047.3475	45.66'	N55°58'07"E				
C3	PC= PI= PT=	31+12.14 31+17.87 31+23.41	324228.1177 324231.3266 324236.2856	2782047.3475 2782052.0994 2782054.9778	11.27'	N43°03'04"E	25°50'07"	5.73'	25.00'	
L10		31+23.41 31+65.89	324236.2856 324273.0240	2782054.9778 2782076.3031	42.48'	N30°08'01"E				
C4	PC= PI= PT=	31+65.89 31+93.32 32+17.80	324273.0240 324296.7475 324303.4329	2782076.3031 2782090.0736 2782116.6769	51.91'	N53°00'49"E	45°45'37"	27.43'	65.00'	
L11		32+17.80 32+64.73	324303.4329 324314.8699	2782116.6769 2782162.1886	46.93'	N75°53'37"E				
C5	PC= PI= PT=	32+64.73 32+68.02 32+71.27	324314.8699 324315.6721 324317.2731	2782162.1886 2782165.3807 2782168.2564	6.54'	N68°23'37"E	15°00'00"	3.29'	25.00'	
L12		32+71.27 33+06.60	324317.2731 324334.4580	2782168.2564 2782199.1236	35.33'	N60°53'37"E				
C6	PC= PI= PT=	33+06.60 33+26.42 33+45.78	324334.4580 324344.0986 324359.3878	2782199.1236 2782216.4398 2782229.0504	39.18'	N50°12'17"E	21°22'40"	19.82'	105.00'	
L13		33+45.78 34+20.84	324359.3878 324417.2924	2782229.0504 2782276.8103	75.06'	N39°30'57"E				
C7	PC= PI= PT=	34+20.84 34+29.37 34+37.87	324417.2924 324423.8749 324429.4944	2782276.8103 2782282.2395 2782288.6603	17.03'	N44°09'42"E	9°17'30"	8.53'	105.00'	
L14		34+37.87 35+59.01	324429.4944 324509.2786	2782288.6603 2782379.8211	121.14'	N48°48'27"E				
C8	PC= PI= PT=	35+59.01 35+73.43 35+87.67	324509.2786 324518.7732 324524.9926	2782379.8211 2782390.6697 2782403.6758	28.65'	N56°37'32"E	15°38'09"	14.42'	105.00'	
C9	PC= PI= PT=	35+87.67 36+11.92 36+35.35	324524.9926 324535.4580 324554.4630	2782403.6758 2782425.5613 2782440.6380	47.68'	N51°26'03"E	26°01'07"	24.26'	105.00'	
L15		36+35.35 36+45.74	324554.4630 324562.6048	2782440.6380 2782447.0968	10.39'	N38°25'30"E				

OLSSON ASSOCIATES
702 S. Main Street
Joplin, MO 64801
TEL 417.781.0643
FAX 866.781.0643
www.olssonassociates.com
Olsson Associates - MO State Certificate of Authority #2015952

JOPLIN, MO
BROADER, SAFER, SMARTER
JET JOINT ENGINEERING TEAM

STATE OF MISSOURI
SHAUN W. McCONNAUGHEY
NUMBER PE-2013019078
PROFESSIONAL ENGINEER
9/30/2016

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION
1	3/9/2016	PER OLSSON'S COMMENTS

ALIGNMENT DATA AND SURVEY CONTROL
JET DR-2 STORM PROJECT 19: MOHASKA WQ

MOHASKA WATER QUALITY IMPROVEMENTS
CITY OF JOPLIN

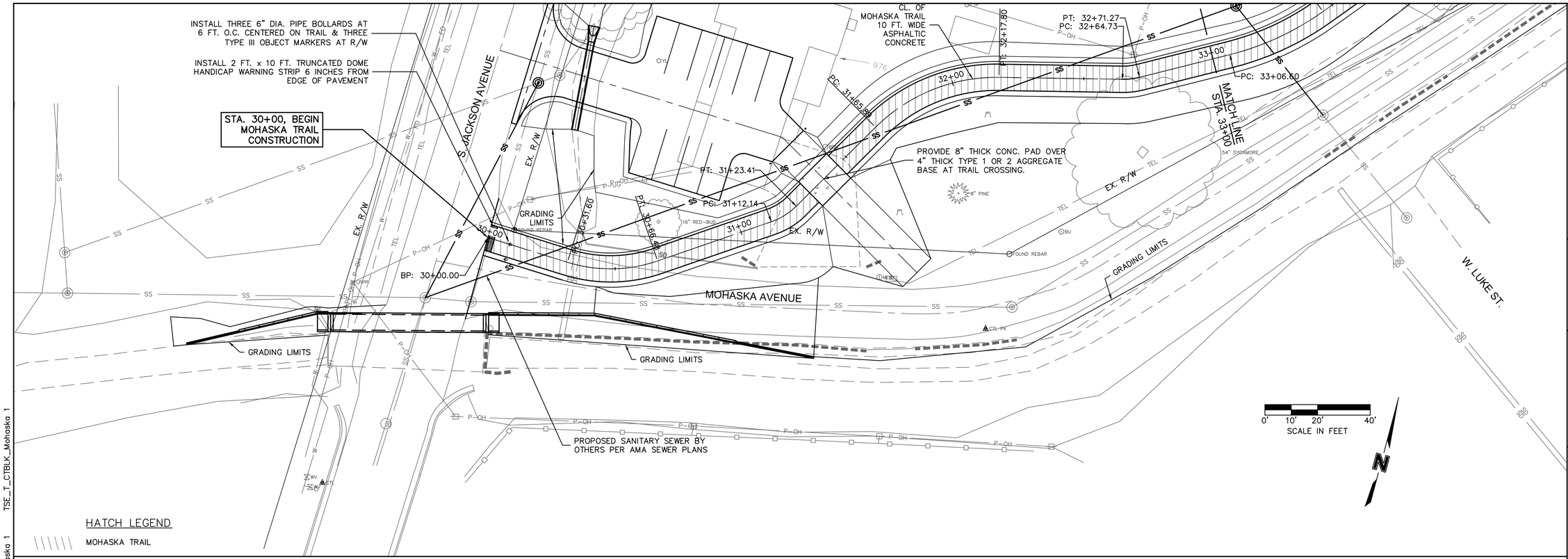
JOPLIN, MISSOURI

2016

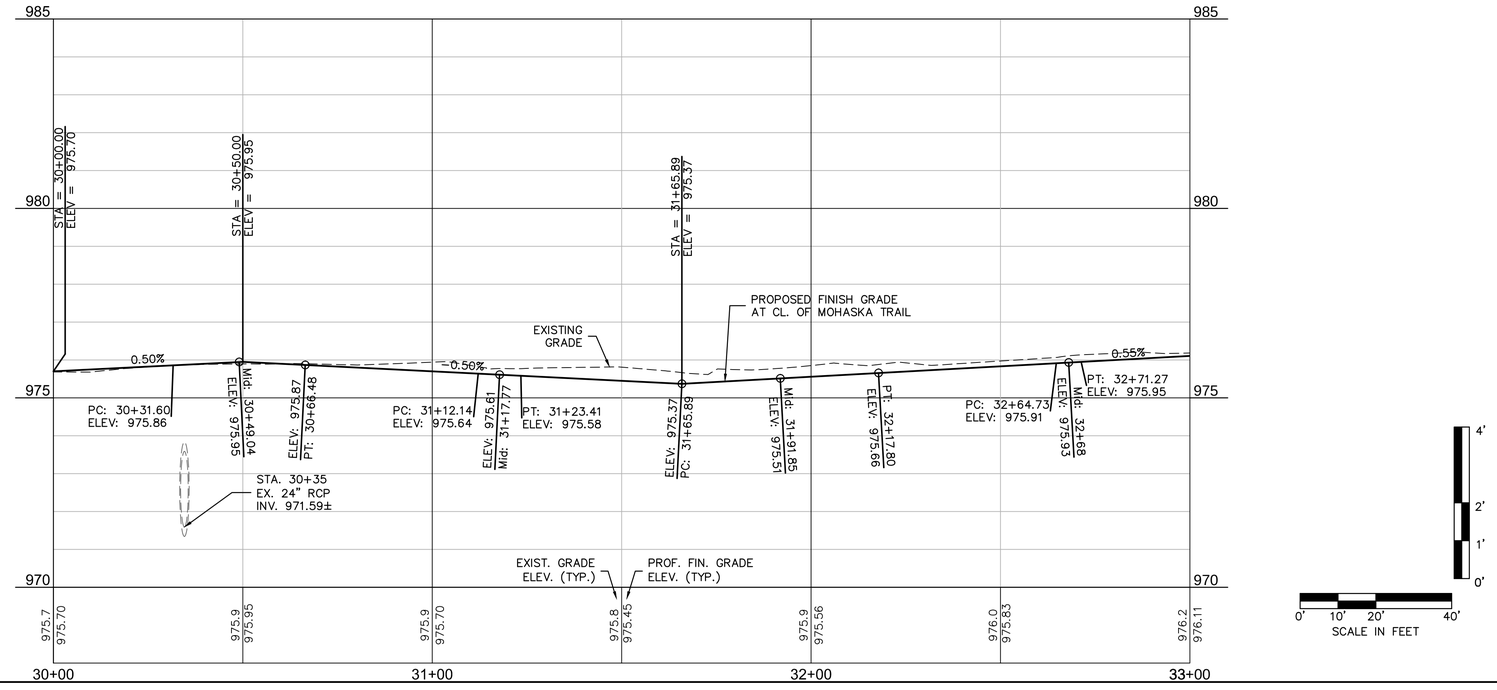
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designed by: SWM
checked by: ENG
project no.: 015-3544
drawing no.: AD04_MOHASKA 1
date: 09.30.2016

SHEET
04 *of* 38

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MOHASKA TRAIL PROFILE: STA. 30+00 TO 33+00



TSE
TRISTATE ENGINEERING
OLSSON ASSOCIATES
TEL 417.781.0643
FAX 866.781.0643
www.olssonassociates.com
702 S. Main Street
Joplin, MO 64801
Olsson Associates - MO State Certificate of Authority #2015962

JOPLIN, MO STRONGER, SAFER, SMARTER
JET JOINT ENGINEERING TEAM

STATE OF MISSOURI
SHAUN W. McCONNAUGHEY
NUMBER PE-2013019078
PROFESSIONAL ENGINEER
9/30/2016

REV. NO.	DATE	REVISIONS DESCRIPTION
		REVISIONS

MOHASKA TRAIL PLAN & PROFILE
JET DR-2 STORM PROJECT 19: MOHASKA WQ

MOHASKA WATER QUALITY IMPROVEMENTS
CITY OF JOPLIN

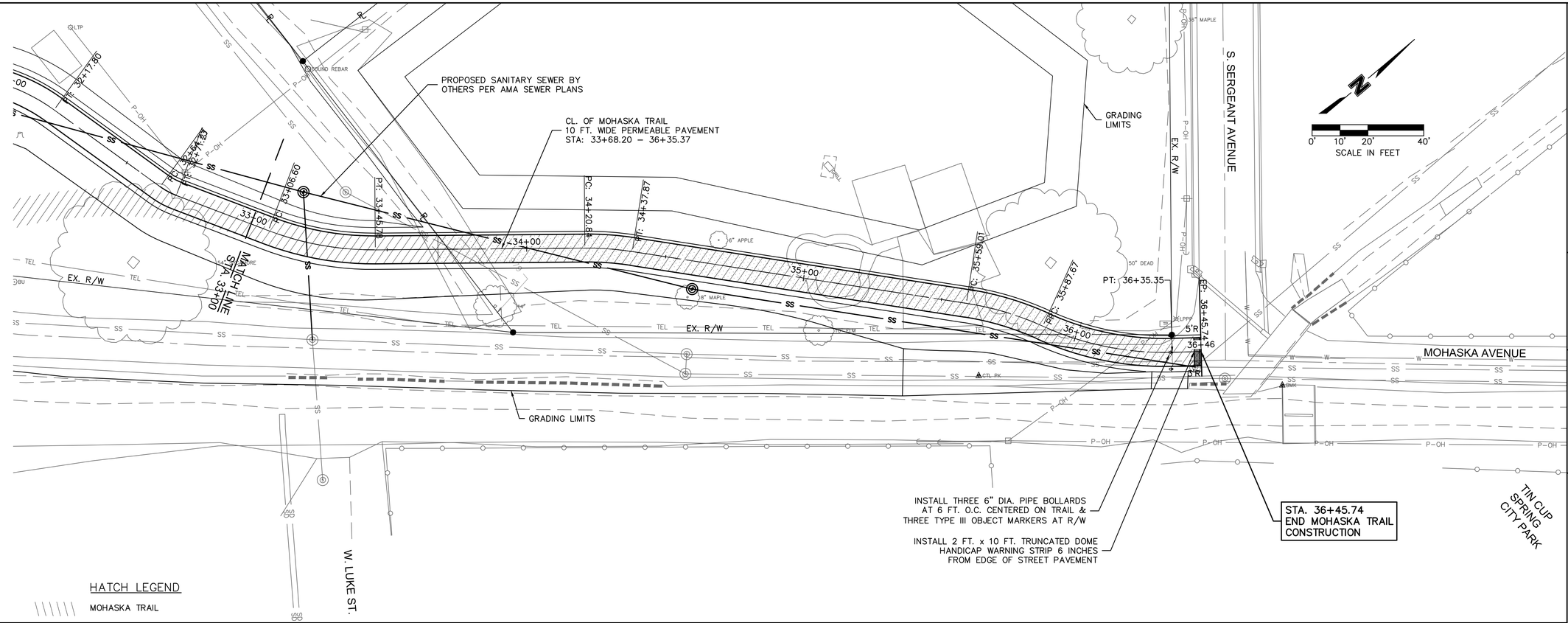
JOPLIN, MISSOURI

2016

drawn by: CAD
designed by: SWM
checked by: ENG
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drawing no.: SWK12_MOHASKA 1
date: 09.30.2016

SHEET 12 of 38

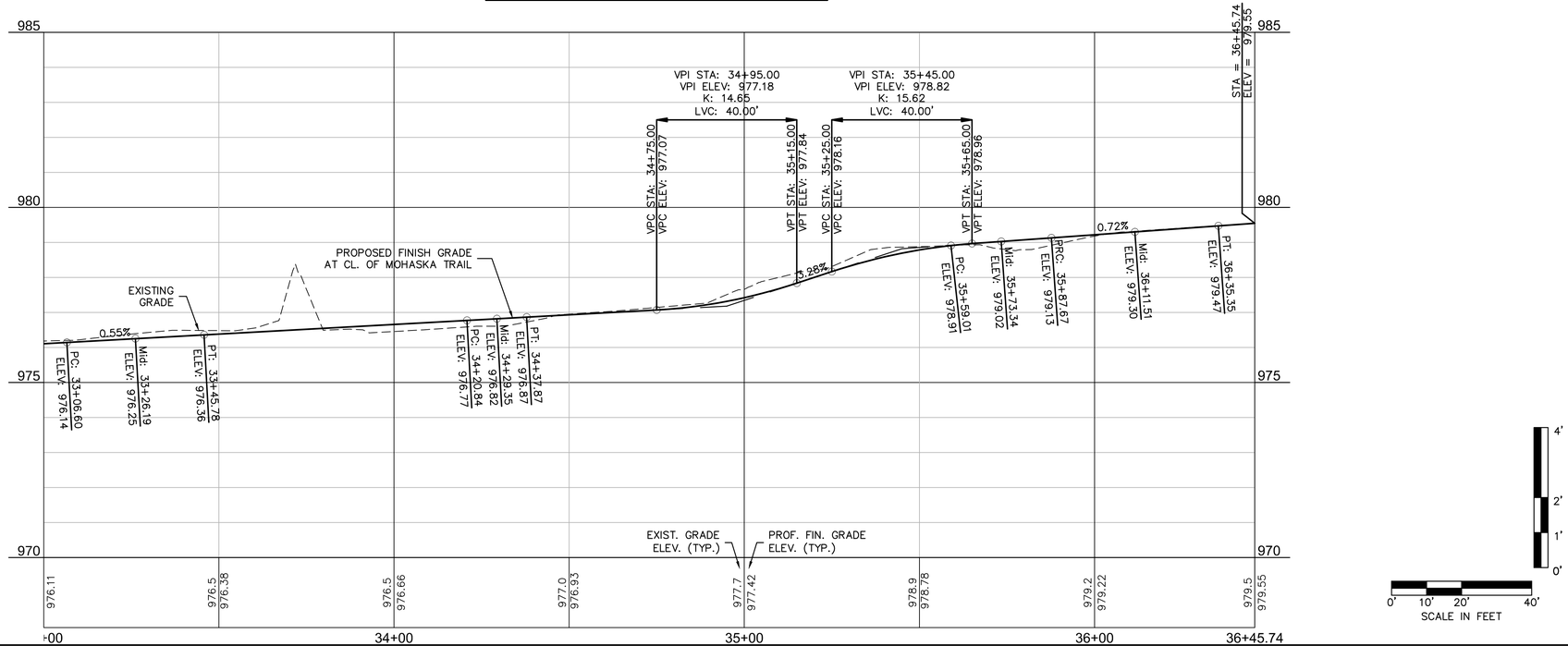
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HATCH LEGEND

MOHASKA TRAIL

MOHASKA TRAIL PROFILE: STA. 33+00 TO 36+45.74



OLSSON ASSOCIATES
TEL 417.781.0643
FAX 866.781.0643
www.olssonassociates.com
702 S. Main Street
Joplin, MO 64801
Olsson Associates - MO State Certificate of Authority #2015952

JOPLIN, MO STRONGER. SAFER. SMARTER
JET JOINT ENGINEERING TEAM

STATE OF MISSOURI
SHAUN W. McCONNAUGHEY
NUMBER PE-2013019078
9/30/2016
PROFESSIONAL ENGINEER

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION

MOHASKA TRAIL PLAN & PROFILE
JET DR-2 STORM PROJECT 19: MOHASKA WQ

MOHASKA WATER QUALITY IMPROVEMENTS
CITY OF JOPLIN

JOPLIN, MISSOURI

2016

drawn by: CAD
designed by: SWM
checked by: ENG
project no.: 015-3544
drawing no.: SWK13_MOHASKA 1
date: 09.30.2016

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DATE: Sep 28, 2016 5:47pm XREFS: TSE_JET_XBASE_Mohaska 1 TSE_JET_PBASE_Mohaska 1 TSE_JET_PALGN_Mohaska 1
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