

ADDENDUM NUMBER 5

Project Number **89008230**

Project Title <u>NW 72nd Street Improvements</u> <u>Federal STP-3451(401)</u>

ISSUE DATE: <u>1/17/2019</u>

Bidders are hereby notified that the Bidding and Contract Documents for the above project, for which Bids are to be received on <u>January 29</u>, <u>2019</u>, are amended as follows:

<u>Information to Bidders</u> The following is provided to Bidders for information only:

Q1.	What is the difference between item 96 and item 99 on the bid form.
A1.	Item 96 (KCP&L Service) includes work for installation of necessary conduits and
	wiring. Item 99 (Power Hookups for KCP&L Power Sources) was a City requested
	Bid Item which includes the work to make the final connection to KCP&L power
	system.
Q2.	I received Addendum 3 for 72 Street. The only problem with following KCMO drawing J-1 is
	it does not call out transverse joints to have dowel baskets installed. You may want to modify
1.0	drawing J-1 or have it noted that all transverse joints require dowel baskets.
A2.	Updated KCMO Standard Drawing J-1 has been posted to the following website:
	http://kcmo.gov/publicworks/standard-drawings/
	All transverse joints shall be Type E.
Q3.	Does the existing 2" conduit need to stay in service at all times or if and for how long it could be out of service if relocation is needed
A3.	The existing system within the conduit needs to remain active at all times. If a shut
A3.	down is unavoidable the timing and duration of the shut down is at the discretion
	of the City and the Park Hill School District.
	of the City and the Lark IIIII School District.
Q4.	I can't seem to find the cross sections from 33+25 to 38+50
A4.	No cross sections exist beyond station 33+25.
Q5.	Is the existing pavement included in the "Unclassified Excavation" item?
A5.	Yes, pavement is included.
Q6.	#55 of the quantities and unit of measure. Do not understand, could you please clarify.
A6.	The storm sewer trench drain measurement and payment has been updated to
	Linear Feet. The Bid Form and drawings have been revised accordingly.

Q7.	Storm Sewer plan & profile sheet 81 shows trench drain is existing?				
A7.	There is no existing trench drain on sheet 81.				
Q8.	Are there any details for the structures themselves?				
A8.	No specific storm sewer details are in the plans. Details for storm sewer structures				
	can be found on the City's website:				
	http://kcmo.gov/publicworks/standard-drawings/				
Q9 .	The quantities seem to reflect paying for all the traffic control signs used in each phase. Some				
	of the same signs are used in phase 1 & phase 2. In fact, some of the signs don't move between				
	phase 1 & phase 2 but the square footage seems to be counted again and included in the total for				
A9.	the project.				
А9.	Yes, quantities include all traffic control signage in each phase. Measurement and				
	payment for traffic control items will be based upon the work completed. If items				
	are reused between construction phases there will be no measurement and				
	payment.				
Q10.	Regarding the Variable Message Board spelled out on Addendum 3. We did not find any more				
Q10.	information in the specification book as the addendum says to refer to JSP-V in the project				
	manual. Is there any additional information you can provide?				
A10.	The information regarding the Variable Message Boards were within the Addendum 3				
	documents.				
Q11.	Will the city entertain any other striping materials to be used on the concrete portion of the				
	project, (Round About area)?				
A11.	All pavement striping materials are to meet applicable current City standards and				
	requirements.				

Bidding Requirements

- 1. Add temporary erosion control devices to sheets 059 through 065.
- 2. Rename sheets 059 through 065.
- 3. Replace Storm Water Pollution Prevention Plan.
- 4. Replace Federal Wage Rate.
- 5. Replace section 00412 Unit Prices in the Project Manual.
- 6. Add Temporary Erosion Control Devices to list of Bid Item descriptions (JSP V) in the Project Manual.

Specifications

- 1. Remove and Replace 00412 Unit Prices with attached 00412 Unit Prices.
- 2. Remove and Replace 00830 Federal Wage Rate with attached Federal Wage Rate dated 01/04/2019
- 3. Remove Environmental and Cultural Permits and Clearances, Item E and replace with attached Stormwater Pollution Prevention Plan.
- 4. Remove and Replace last page of the Job Special Provisions, Item V. Bid Items

Drawings:

- 1. Remove and Replace the following drawings:
 - **1** 002, 053, 059, 060, 061, 062, 063 064, 065.

NOTE: date, when	Bidders must acknowlere provided, on the Bid	ledge receipt of this Ad Form - Document 0041	ldendum by listing the 1 10.	number and

Bidder:	
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UNIT PRICES

Project Number: 8900008230

Project Title: NW 72nd Street Improvements

NOTE: IN THE EVENT OF DISCREPANCY, UNIT PRICE SHALL GOVERN.

Item No.	Unit	Quantity	Item Description:	Unit	Extension
1	LS	1	Mobilization		
2	LS	1	Construction Staking		
3	AC	4.9	Clearing & Grubbing		
4	LS	1	Removal of Improvements		
5	CY	10185	Unclassified Excavation		
6	CY	10042	Embankment		
7	SY	11649	Type 5-01 Asphaltic Concrete Surface (2")		
8	SY	11649	Type 1-01 Asphaltic Concrete Base (9")		
9	SY	1774	Type 1-01 Asphaltic Concrete Base (5")		
10	SY	201	Aspaltic Concrete Transition (9" +2") Type 1-01 & 5-01		
11	SY	1535	Concrete Roundabout Pavement (10")		
12	SY	294	Concrete Roundabout Apron (8" Colored, Stamped)		
13	SF	2511	Concrete Median (4" Colored, Stamped)		
14	SY	16760	Untreated Compacted Aggregate (6")		
15	SY	17420	Subgrade Stabilization (9", Fly Ash)		
16	LF	6205	Concrete Curb & Gutter (All Types)		
17	LF	258	3" Concrete Curb (Roundabout)		
18	LF	180	Concrete Straight Curb (Roundabout)		
19	LF	640	Concrete Doweled Curb		
20	SF	18762	Concrete Residential Drive (6", MCIB WA610)		
21	SF	8627	Concrete Commercial Drive (8", MCIB WA610)		
22	SF	513	Asphalt Commercial Drive (6" + 2") Type 1-01 & 5-01		
23	SF	679	Asphalt Residential Drive (4"+2") Type 1-01 & 5-01		
24	SF	1644	Asphalt Residential Drive (2" Overlay) Type 5-01		
25	SF	12725	4" Concrete Sidewalk		
26	SF	657	6" Concrete Sidewalk Ramp		
27	VSF	112	Small Block Retaining Wall		
28	VSF	2045	Large Block Retaining Wall		
29	EA	10	Curb Inlet C1-1 (5'x3')		
30	EA	1	Curb Inlet C1-1 (5'x4')		
31	EA	4	Curb Inlet C1-1 (8'x3')		
32	EA	1	Curb Inlet C1-1 (11'x3')		

33	EA	1	Storm Sewer Manhole MH-1 (5' Diameter)	
34	EA	2	Junction Box JB-1 (4'x4')	
35	EA	2	Junction Box JB-1 (4'x4' Shallow)	
36	EA	1	Junction Box JB-1 (5'x5')	
37	EA	2	Field Inlet (4'x4')	
38	EA	3	Field Inlet (5'x5')	
39	LF	767	15" RCP (Class III)	
40	LF	543	18" RCP (Class III)	
41	LF	402	24" RCP (Class III)	
42	LF	278	30" RCP (Class III)	
43	LF	335	36" RCP (Class III)	
44	LF	87	12" PVC Storm Sewer	
45	EA	1	12" RCP End Section	
46	EA	2	15" RCP End Section	
47	EA	1	18" RCP End Section	
48	EA	1	24" RCP End Section	
49	EA	1	36" RCP End Section	
50	EA	2	Connect to Existing Storm Sewer Structure	
51	SY	7	Rip-Rap (14", Ungrouted)	
52	SY	33	Rip-Rap (22", Ungrouted)	
53	SY	9	Turf Reinforcement Mat	
54	CY	2728	Temporary Sediment Basin	
55	М	8	Storm Sewer Trench Drain	
56	EA	2	Sanitary Sewer Manhole MH-1 (4' Diameter)	
57	LF	47	8" PVC Sanitary Sewer	
58	LF	27	4" PVC Sanitary Sewer Service Line	
59	EA	9	Manhole Adjustment	
60	LF	253	Fencing (All Types)	
61	EA	2	Private Signage and Landscaping	
62	EA	2	Project Signs	
63	SF	628	Temporary Traffic Control Signage	
64	EA	30	Type III Barricade	
65	SF	166	Permanent Traffic Control Signage (Direct Screen)	
66	SF	67	Permanent Traffic Control Signage (Reverse Screen)	
67	LF	462	Permanent Traffic Control Sign Posts (Posts)	
68	LF	117	Permanent Traffic Control Sign Posts (Sleeve)	
69	LF	59	Permanent Traffic Control Sign Posts (Anchor)	
70	LF	6045	4" Yellow Lane Line	
71	LF	110	4" White Lane Line	
72	LF	3935	6" White Lane Line	

Bidder:

73	LF	125	12" Yellow Lane Line	
74	LF	44	12" White Lane Line	
75	LF	80	24" White Lane Line	
76	EA	17	Left Turn Arrow	
77	EA	4	Sharrow Symbol	
78	EA	9	Bicycle Lane Symbol	
79	EA	3	Roundabout Symbol	
80	EA	21	Type "A" 130 Watt LED Light Fixture	
81	EA	21	Type "A" Pole (35'-0")	
82	EA	21	Type "A" Arm (6'-0")	
83	LF	2250	1 #10 RHW/USE Internal Pole Wire	
84	LF	900	2 #6 RHH/RHW/USE, 1 #6 CU GND, 2" CID	
85	LF	1900	2 #8 RHH/RHW/USE, 1 #8 CU GND, 2" CID	
86	LF	200	3" HDPE Conduit for KCP&L Feed	
87	LF	200	1 #6 AWG Bare Copper Wire	
88	EA	2	4 Circuit Lighting Controller	
89	EA	2	Ground Rod	
90	EA	42	Fuse Kits	
91	EA	21	Non-Fused Fuse Kites	
92	EA	21	Cable Retainers	
93	EA	21	Screw In Light Pole Base	
94	EA	23	ID Tag	
95	EA	2	Concrete Foundations for Lighting Controller	
96	EA	2	KCP&L Service	
97	LF	3000	Trench and Backfill	
98	EA	16	Luminaire and Arm Removal	
99	EA	2	Power Hookups for KCP&L Power Sources	
100	EA	3	State Street Maple	
101	EA	6	Crimson Sunset Maple	
102	EA	3	American Hophornbeam	
103	EA	3	Swamp White Oak	
104	EA	12	Shawnee Brave Bald Cypress	
105	EA	3	Eastern Red Cedar	
106	EA	13	Canaerti Juniper	
107	EA	2	Colorado Spruce	
108	EA	10	Shrubs TBD by Homeowner	
109	EA	258	Sideoats Grama	
110	EA	311	Walkers Low Catmint	
111	SY	16272	Turf Sod	
112	LF	191	Steel Edging	

Bidder:	
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113	EA	27	Tree Watering Bags	
114	CY	2148	Topsoil (6" Depth)	
115	LF	2314	12" Class 52 DIP	
116	LF	104	8" Class 52 DIP	
117	LF	72	6" Class 52 DIP	
118	LF	7	1 1/2" Type K Copper	
119	LF	49	1" Type K Copper	
120	LF	190	3/4" Type K Copper	
121	LF	212	3/4" Type G Copper	
122	EA	5	5" KC-1 Spec Hydrant Type A	
123	EA	6	12" Gate Valve	
124	EA	1	8" Gate Valve	
125	EA	8	6" Gate Valve	
126	EA	1	12"x8" Tee	
127	EA	8	12"x6" Tee	
128	EA	1	12" 90° Bend	
129	EA	6	12" 45° Bend	
130	EA	4	12" 22.5° Bend	
131	EA	2	8" 22.5° Bend	
132	EA	5	6" 90° Bend	
133	EA	4	6" 45° Bend	
134	EA	2	12"x8" Reducer	
135	EA	2	12"x2" Tapped Plug	
136	EA	1	6"x2" Tapped Plug	
137	EA	1	12" Solid Sleeve	
138	EA	3	8" Solid Sleeve	
139	EA	3	6" Solid Sleeve	
140	EA	11	Straddle Block	
141	EA	1	1" Service Tap	
142	EA	9	3/4" Service Tap	
143	EA	10	Curb Stop	
144	EA	8	3/4" Meter & Pit	
145	EA	1	1 1/2" Dielectric Coupling	
146	EA	3	2" Galvanized Pipe (Flushing Assembly)	
147	EA	1	12" Air Release Valve with Vault	
148	EA	1	Adjust Grade of Air Release Valve Cover	
149	LF	2600	Relocate KCMO Fiber	
150	EA	2	Variable Message Signs	
151	LF	454	Silt Fence	
152	EA	18	Curb Inlet Proctection	

Bidder:

153	EA	8	Area Inlet Protection	
154	EA	2	Junction Box Protection	
155	SF	5438	Construction Entrance	
156	EA	6	Rock Check Dam	
157	LF	521	Diversion Berm	
			Total Unit Prices: (LAST PAGE ONLY)	TOTAL \$

General Decision Number: M0190001 01/04/2019 M01

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

CARP0002-002 05/01/2018

ST. LOUIS COUNTY AND CITY

CARP0011-001 05/01/2018

	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		15.55
MILLWRIGHTS & PILEDRIVERS	.\$ 36.34 	15.55

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

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 Groundman & Truck Driver Lineman & Cable Splicer	\$ 30.36	19.96 16.67 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 Groundman	\$ 29.46	14.90 14.29
Lineman Operator Lineman Line Construction; (BATES, BENTON, CARROLL, CASS, CLAY, HENRY, JACKSON, JOHNSON, LAFAYETTE, PETTIS, PLATTE, RAY AND SALINE COUNTIES)	\$ 45.70	18.00 19.00
Groundman Powderman Groundman	•	14.90 14.29
Lineman Operator	\$ 42.24	18.00 19.00
FLECOROF 001 06/01/2017		

ELEC0095-001 06/01/2017

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

	Rates	Fringes
Electricians: Cable Splicers		12.19 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
MERZIEK AUG MKIGHI COONITEZ.	⊅ ∠0.1 5	14.56

15.03

13.75

ELEC0545-003 06/01/2017

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

PULASKI and TEXAS COUNTIES..\$ 30.80

STONE and TANEY COUNTIES....\$ 21.94

	Rates	Fringes
Electricians:	\$ 31.00	15.60
ELECATAR AND AT /AR /2019		

ELEC0702-004 07/02/2018

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

	Rates	Fringes
Line Construction: Groundman - Class A Groundman-Equipment	\$ 28.97	14.15
Operator Class II (all other equipment) Heavy-Equipment Operator Class I (all crawler type		16.39
equipment D-4 and larger) Lineman	\$ 41.86	17.88 20.535

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 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

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.).

FNCTOF12 004 05 /01 /2010

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

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

Ra	ates Fr	inges
Power equipment operators:		
GROUP 1\$ 2	28.34	27.06
GROUP 2\$ 2	27.99	27.06
GROUP 3\$ 2	27.79	27.06
GROUP 4\$ 2	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 -Wrecking, when machine is working on second floor or higher -\$0.50;

ENGI0513-007 05/02/2018

	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 (selfpropelled); 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 ATCHISON, BATES, BUCHANAN, CALDWELL, CARROLL, CASS, CLAY, CLINTON, HENRY, JACKSON, JOHNSON, LAFAYETTE, PETTIS, PLATTE,

29.44

SALINE, AND RAY COUNTIES....\$ 33.30 29.44

DOUGLAS, HOWELL and OZARK COUNTI	ES	
	Rates	Fringes
Ironworker	.\$ 19.95	18.36
IRON0396-004 08/02/2017		
ST. LOUIS (City and County), ST. FRANKLIN, LINCOLN, WARREN, WASHI GENEVIEVE, and REYNOLDS Counties PERRY, BOLLINGER, WAYNE, and CAR	NGTON, ST. FRANC; and portions o	OIS, STE.
	Rates	Fringes
Ironworker		25.11
IRON0396-009 08/02/2017		
AUDRAIN, CALLAWAY, COLE, CRAWFOR MONTGOMERY, OSAGE, PHELPS, PIKE, Counties; and portions of BOONE, LACLEDE, MILLER, MONROE, OREGON,	PULASKI, TEXAS CAMDEN, DOUGLAS	and WRIGHT , HOWELL,
	Rates	Fringes
Ironworker		25.11
IRON0577-005 08/01/2018		
ADAIR, CLARK, KNOX, LEWIS, MACON SCHUYLER, SCOTLAND, AND SHELBY C	= = = = = = = = = = = = = = = = = = = =	, RALLS,
	Rates	Fringes
Ironworker	.\$ 26.25	23.10
		23.10
IRON0584-004 06/01/2017		23.10
	D, NEWTON AND ST	
IRON0584-004 06/01/2017	D, NEWTON AND ST	
IRON0584-004 06/01/2017 BARRY, JASPER, LAWRENCE, MCDONAL Ironworkers:	Rates .\$ 24.00	ONE Counties
IRON0584-004 06/01/2017 BARRY, JASPER, LAWRENCE, MCDONAL	Rates .\$ 24.00	ONE Counties Fringes
IRON0584-004 06/01/2017 BARRY, JASPER, LAWRENCE, MCDONAL Ironworkers:	Rates .\$ 24.00 MADRID, SCOTT, GER, BUTLER, CAR	ONE Counties Fringes 14.81
IRON0584-004 06/01/2017 BARRY, JASPER, LAWRENCE, MCDONAL Ironworkers:	Rates .\$ 24.00 MADRID, SCOTT, GER, BUTLER, CAR	ONE Counties Fringes 14.81

LAB00042-003 03	/0/	/2018
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ST. LOUIS (City and County)

ST. LOUIS (City and County)		
	Rates	Fringes
4.00050		G
LABORER Plumber Laborer	\$ 32.32	15.50
LAB00042-005 03/07/2018		
ST. LOUIS (City and County)		
	Rates	Fringes
LABORER		
Dynamiter, Powderman	\$ 32.32	15.32
Laborers, Flaggers	\$ 32.32	15.32
Wrecking		15.32
LAB00424-002 05/01/2016		
, ,	Data	Fulling
	Rates	Fringes
LABORER		
ADAIR, AUDRAIN, BOONE,		
CALLAWAY, CHARITON, CLARK,	1	
COLE, COOPER, HOWARD,		
IRON, KNOX, LEWIS, LINN, MACON, MADISON, MARION,		
MILLER, MONITEAU, MONROE,		
PERRY, PIKE, PUTNAM,		
RALLS, RANDOLPH, REYNOLDS,	1	
ST. FRANCOIS, STE.		
GENEVIEVE, SCHUYLER,		
SCOTLAND, SHELBY AND		
SULLIVAN COUNTIES GROUP 1	¢ 27 06	13.17
GROUP 2		13.17
BOLLINGER, BUTLER, CAPE	27.50	13.17
GIRARDEAU, CARTER,		
CRAWFORD, DENT, DUNKLIN,		
GASCONADE, HOWELL, MARIES,	1	
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		13.17
GROUP 2	⊅ 30.31	13.17
GROUP 1	\$ 29.76	13.17
GROUP 2		13.17
LINCOLN, MONTGOMERY AND		
WARREN COUNTIES		
GROUP 1		13.32
GROUP 2	\$ 31.18	13.32
ST.CHARLES COUNTY GROUP 1	¢ 2 10	13.32
GROUP 2		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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LAB00579-005 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)

WRIGHT COOKTIES)		
GROUP 1\$ 2	25.16	13.67
GROUP 2\$ 2	25.71	13.67
LABORER (LAFAYETTE COUNTY)		
GROUP 1\$ 2	26.71	13.92
GROUP 2\$ 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.

LAB00663-002 04/01/2018

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

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.

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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 Brush & Roller Prywall	; \$ 31.96 \$ 29.34 \$ 30.34 \$ 29.84	16.96 16.96 16.96 16.96
Steeplejack		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; D	ipping\$ 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

F	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 Spray & Abrasive Blasting; Waterblasting (Over 5000	.\$ 25.70	12.74
PSI)	.\$ 28.70	12.74
Height Rates (All Areas):		

Height Rates (All Areas): Over 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	
			_

PLAS0518-006 03/01/2018

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.	\$ 24.24	11.05
PLAS0518-007 04/01/2018		

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

	Rates	Fringes
Cement Masons:	\$ 31.83	17.39
DI 460540 044 04/04/2040		

PLAS0518-011 04/01/2018

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

Rates Fringes

CEMENT MASON PLUM0008-003 06/01/2018 CASS, CLAY, JACKSON, JOHNSON Plumbers PLUM0008-017 06/01/2018 BATES, BENTON, CARROLL, HENRY ST. CLAIR, SALINE AND VERNON	Rates\$ 45.34\$ MATE COUI	15.73 NTIES Fringes 21.39 RGAN, PETTIS, RAY,
PLUM0008-003 06/01/2018 CASS, CLAY, JACKSON, JOHNSON Plumbers PLUM0008-017 06/01/2018 BATES, BENTON, CARROLL, HENRY	\$ 27.60 , AND PLATTE COUI Rates \$ 45.34	15.73 NTIES Fringes 21.39
PLUM0008-003 06/01/2018 CASS, CLAY, JACKSON, JOHNSON	\$ 27.60 \$ 27.60 , AND PLATTE COUI Rates \$ 45.34	15.73 NTIES Fringes 21.39
PLUM0008-003 06/01/2018 CASS, CLAY, JACKSON, JOHNSON	\$ 27.60 \$ 27.60 , AND PLATTE COUI Rates \$ 45.34	15.73 NTIES Fringes 21.39
PLUM0008-003 06/01/2018	\$ 27.60 , AND PLATTE COUI	15.73
PLUM0008-003 06/01/2018	\$ 27.60	15.73
	\$ 27.60	-
	\$ 27.60	-
	Rates	1111863
	Datas	Fringes
PLAS0908-005 05/01/2017 BENTON, CALDWELL, CALLAWAY, (GASCONADE, GRUNDY, HARRISON, MILLER, MONTGOMERY, MORGAN, (LIVINGSTON, MAC	ON, MARIES, MERCER,
CEMENT MASON	\$ 27.60	15.73
	Rates	Fringes
BOLLINGER, BUTLER, CAPE GIRAN MISSISSIPPI, NEW MADRID, OREG SCOTT, STODDARD, AND WAYNE CO	GON, PEMISCOT, P	
PLAS0908-001 05/01/2017		
CEMENT MASON		18.07
	Rates	Fringes
CRAWFORD, DENT, IRON, MADISON RALLS, REYNOLDS, ST. FRANCOIS WASHINGTON COUNTIES		
PLAS0527-004 06/01/2017		
FRANKLIN, LINCOLN AND WARREN COUNTIES JEFFERSON, ST. CHARLES COUNTIES AND ST.LOUIS (City and County)	\$ 32.66	18.07 18.62
CEMENT MASON	Rates	Fringes
CEMENT MASON		
PLAS0527-001 04/01/2018		

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

Mechanical Contracts

including all piping and

temperature control work

22.09

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 Mechanical Contracts including all piping and temperature control work	.\$ 38.91	22.09
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	•	12.00
GROUP 2		12.00
GROUP 4		12.00 12.00
GROUP 4 Truck drivers (AUDRAIN,	.\$ 28.81	12.00
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		12.85
GROUP 3		12.85
GROUP 4		12.85
Truck drivers (FRANKLIN,		
JEFFERSON and ST. CHARLES		
COUNTIES)		
GROUP 1	•	12.00
GROUP 2	•	12.00
GROUP 3GROUP 4	•	12.00 12.00
Truck drivers (LINCOLN and	. \$ 51.65	12.00
WARREN COUNTIES)		
GROUP 1	.\$ 30.28	12.00
GROUP 2		12.00
GROUP 3		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	4 20 F7	42.05
GROUP 2	•	12.85 12.85
GROUP 3		12.85
GROUP 4		12.85
Truck drivers: (ATCHISON, BARRY, GENTRY, GRUNDY, HARRISON, HOLT, MCDONALD, MERCER, NODAWAY, OZARK, STONE, SULLIVAN, TANEY AND WORTH COUNTIES)		12.03
GROUP 1		12.85
GROUP 2		12.85
GROUP 3		12.85
GROUP 4	.\$ 29.11	12.85
Truck drivers; (BUCHANAN, JOHNSON AND LAFAYETTE COUNTIES)		
GROUP 1	•	12.85
GROUP 2		12.85
GROUP 3		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 semitrailer; insley wagons, dumpsters, half-tracks, speedace, euclids & other similar equipment; A-frames and derrick trucks; float or low boy.

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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.

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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

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TEAM0682-002 05/01/2017

Rates Fr	inges
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Truck drivers:

GF	ROUP	1\$	33.30	13.79+a+b+c+d
GF	ROUP	2\$	33.50	13.79+a+b+c+d
GF	ROUP	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.

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

- 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.

END OF GENERAL DECISION

GENERAL NOTES:

- 1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CURRENT "CITY STANDARDS" AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT, KANSAS CITY, MISSOURI, EXCEPT AS NOTED.
- 2. THIS PROJECT WAS BASED ON BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY THE CITY OF KANSAS CITY, MISSOURI AND SCHMITZ. KING & ASSOCIATES.
- 3. ALL MANHOLES, CATCH BASINS, UTILITY VALVES, AND METER PITS SHALL BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- 4. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONTAIN ONLY VIRGIN MATERIALS. BASE COURSE MAY CONTAIN RECYCLED
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL SYSTEMS AND PROCEDURES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATIONS.
- 6. PRIOR TO ORDERING PRE—CAST STRUCTURES, SHOP DRAWINGS ARE TO BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ROCK ELEVATIONS AT 25 FOOT (MAXIMUM) INTERVALS WHERE ENCOUNTERED, AND FURNISHING THIS INFORMATION TO THE DESIGN ENGINEER FOR USE ON "AS-BUILT" PLANS.
- 8. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.
- 9. SUBSURFACE EXPLORATION FOR THE DETERMINATION OF AND/OR THE LOCATION OF EXISTING ROCK HAS BEEN MADE AND IS INCLUDED IN THE PROJECT SPECIFICATIONS.
- 10. THE CITY OF KANSAS CITY, MISSOURI SHALL PROVIDE EARTHWORK AND MATERIAL TESTING SERVICES.
- 11. UTILITIES CROSSING PUBLIC STREETS SHALL CONFORM TO THE FLOWABLE FILL REQUIREMENTS AS PER THE REVISED STANDARD SPECIFICATIONS SECTION 2602.21; WITH SUPPLEMENT.
- 12. CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR AS OUTLINED IN THE SPECIFICATIONS.
- 13. CONTRACTOR SHALL CONTACT AND COORDINATE WITH APPROPRIATE UTILITY COMPANY FOR REMOVALS OR RELOCATIONS OF UNDERGROUND MAINS, UNDERGROUND SERVICE LINES AND ABOVE GROUND UTILITY APPURTENANCES (SUCH AS POWER POLES) SEEN OR UNSEEN WITHIN THE GRADING LIMITS THAT ARE IN CONFLICT WITH PROPOSED CONSTRUCTION.
- 14. ALL EXISTING ROADWAY SURFACES WITHIN THE GRADING LIMITS ARE TO BE REMOVED UNLESS INDICATED OTHERWISE.
- 15. ALL EXISTING STORM SEWER PIPE AND STRUCTURES SEEN OR UNSEEN WITHIN THE GRADING LIMITS SHALL BE REMOVED UNLESS INDICATED ON PLANS TO REMAIN.
- 16. ALL EXISTING DRIVEWAYS WITHIN THE GRADING LIMITS ARE TO BE REMOVED AND REPLACED AS INDICATED ON THE PLANS.
- 17. ALL EXISTING SIDEWALKS WITHIN THE GRADING LIMITS ARE TO BE REMOVED UNLESS INDICATED ON THE PLANS TO REMAIN IN PLACE.
- 18. ALL LANDSCAPING, INCLUDING SHRUBS, WITHIN THE GRADING LIMITS SHALL BE REMOVED AS NECESSARY FOR PROPOSED CONSTRUCTION UNLESS INDICATED ON THE PLANS TO LEAVE IN PLACE. SALVAGE ITEMS TO PROPERTY OWNERS AS REQUESTED.
- 19. SAWCUT EXISTING PAVEMENT, INCLUDING SIDEWALKS, FULL DEPTH WHERE IT MEETS NEW PAVEMENT.
- 20. CONTRACTOR SHALL RESET ALL PROPERTY SURVEY MONUMENTS, INCLUDING PROPERTY CORNERS, SECTION CORNERS, AND KCMO BENCHMARKS, DESTROYED OR REMOVED DUE TO CONSTRUCTION.
- 21. EXISTING WATER SERVICE LINES AND WATER MAINS WITHIN THE PROJECT ARE TO BE REPLACED. REFER TO SEPARATE PLAN SET TITLED "WATER MAIN REPLACEMENT ALONG NW 72ND STREET FROM I-29 TO N OVERLAND DRIVE" FOR NEW WATER MAIN AND WATER SERVICE DESIGN INFORMATION.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE REMAINING PORTIONS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR WHICH HE IS RESPONSIBLE PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP AS REQUIRED BY FEDERAL, STATE, AND CITY REGULATIONS. REFER TO PROJECT SPECIFICATION SECTION 01563 FOR ADDITIONAL INFORMATION.
- 23. ANY CONTRACTOR HAULING DEBRIS SHALL OBTAIN A HAULING PERMIT FROM THE PUBLIC WORKS DEPARTMENT, 816-513-2670, BY MAKING APPLICATION FIVE DAYS IN ADVANCE.
- 24. IN THE EVENT OF CONFLICTS OR DISCREPANCIES AMONG THE SPECIFICATIONS, INTERPRETATIONS WILL BE BASED ON THE FOLLOWING ORDER: APWA—KCMO, MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2017 EDITION), AND THEN MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION (2017 EDITION).

	SUMMARY OF QUANTIT	TIES	
EM	ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT
1	Mobilization	1	LS
2	Construction Staking	1	LS
3	Clearing & Grubbing	4.9	AC
4	Removal of Improvements	1	LS
5	Unclassified Excavation	10185	CY
6	Embankment	10042	CY
7	Type 5-01 Asphaltic Concrete Surface (2")	11649	SY
8	Type 1-01 Asphaltic Concrete Base (9")	11649	SY
9	Type 1-01 Asphaltic Concrete Base (5")	1774	SY
10	Aspaltic Concrete Transition (9" +2") Type 1-01 & 5-01	201	SY
11	Concrete Roundabout Pavement (10")	1535	SY
12	Concrete Roundabout Apron (8" Colored, Stamped)	294	SY
13	Concrete Median (4" Colored, Stamped)	2511	SF
14	Untreated Compacted Aggregate (6")	16760	SY
15	Subgrade Stabilization (9", Fly Ash)	17420	SY
16	Concrete Curb & Gutter (All Types)	6205	LF
17	3" Concrete Curb (Roundabout)	258	LF
18	Concrete Straight Curb (Roundabout)	180	LF
19	Concrete Doweled Curb	640	LF
20	Concrete Residential Drive (6", MCIB WA610)	18762	SF
21	Concrete Commercial Drive (8", MCIB WA610)	8627	SF
22	Asphalt Commercial Drive (6" + 2") Type 1-01 & 5-01	513	SF
23	Asphalt Residential Drive (4"+2") Type 1-01 & 5-01	679	SF
24	Asphalt Residential Drive (2" Overlay) Type 5-01	1644	SF
25	4" Concrete Sidewalk	12725	SF
26	6" Concrete Sidewalk Ramp	657	SF
27	Small Block Retaining Wall	112	VSF
8	Large Block Retaining Wall	2045	VSF
29	Curb Inlet C1-1 (5'x3')	10	EA
30	Curb Inlet C1-1 (5'x4')	1	EA
31	Curb Inlet C1-1 (8'x3')	4	EA
32	Curb Inlet C1-1 (11'x3')	1	EA
33	Storm Sewer Manhole MH-1 (5' Diameter)	1	EA
34	Junction Box JB-1 (4'x4')	2	EA
35	Junction Box JB-1 (4'x4' Shallow)	2	EA
36	Junction Box JB-1 (5'x5')	1	EA
37	Field Inlet (4'x4')	2	EA
38	Field Inlet (5'x5')	3	EA
39	15" RCP (Class III)	767	LF
10	18" RCP (Class III)	543	LF
41	24" RCP (Class III)	402	LF
42	30" RCP (Class III)	278	LF
43	36" RCP (Class III)	335	LF
44	12" PVC Storm Sewer	87	LF
15	12" RCP End Section	1	EA
46	15" RCP End Section	2	EA
17	18" RCP End Section	1	EA
18	24" RCP End Section	1	EA
19	36" RCP End Section	1	EA
50	Connect to Existing Storm Sewer Structure	2	EA
51	Rip-Rap (14", Ungrouted)	7	SY
2	Rip-Rap (22", Ungrouted)	33	SY
3	Turf Reinforcement Mat	9	SY
4 	Temporary Sediment Basin	2728	CY
5	Storm Sewer Trench Drain	12	LF
6 	Sanitary Sewer Manhole MH-1 (4' Diameter)	2	EA
7	8" PVC Sanitary Sewer 4" PVC Sanitary Sewer Service Line	47	LF
8 0	Manhole Adjustment	27 9	LF EA
69 60	Fencing (All Types)	253	EA LF
31	Private Signage and Landscaping Project Signs	2	EA
2	Project Signs Temporary Traffic Control Signage	2	EA
3	Temporary Traffic Control Signage	628	SF
4	Type III Barricade Permanent Traffic Control Signage (Direct Screen)	30	EA
5	Permanent Traffic Control Signage (Direct Screen)	166	SF
6	Permanent Traffic Control Signage (Reverse Screen)	67	SF
7	Permanent Traffic Control Sign Posts (Posts)	462	LF
8	Permanent Traffic Control Sign Posts (Sleeve)	117	LF
9	Permanent Traffic Control Sign Posts (Anchor)	59	LF
70	4" Yellow Lane Line	6045	LF
71	4" White Lane Line	110	LF
2	6" White Lane Line	3935	LF · -
	12" Yellow Lane Line	125	LF · -
	12" White Lane Line	44	LF
'3 '4			LF
'4 '5	24" White Lane Line	80	
4 5 6	Left Turn Arrow	17	EA
4 5			

. 	SUMMARY OF QUAN		/
NO.	ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT
	Type "A" 130 Watt LED Light Fixture	21	EA
	Type "A" Pole (35'-0")	21	EA
	Type "A" Arm (6'-0")	21	EA
83	1 #10 RHW/USE Internal Pole Wire	2250	LF
84	2 #6 RHH/RHW/USE, 1 #6 CU GND, 2" CID	900	LF
85	2 #8 RHH/RHW/USE, 1 #8 CU GND, 2" CID	1900	LF
86	3" HDPE Conduit for KCP&L Feed	200	LF
87	1 #6 AWG Bare Copper Wire	200	LF
88	4 Circuit Lighting Controller	2	EA
89	Ground Rod	2	EA
90	Fuse Kits	42	EA
	Non-Fused Fuse Kites	21	EA
	Cable Retainers	21	EA
	Screw In Light Pole Base	21	EA
	ID Tag	23	EA
	Concrete Foundations for Lighting Controller	2	EA
-	KCP&L Service	3000	EA LF
-	Trench and Backfill	16	EA
	Luminaire and Arm Removal Power Hookups for KCP&L Power Sources	2	EA
	State Street Maple	3	EA
	Crimson Sunset Maple	6	EA
	American Hophornbeam	3	EA
	Swamp White Oak	3	EA
_	Shawnee Brave Bald Cypress	12	EA
	Eastern Red Cedar	3	EA
	Canaerti Juniper	13	EA
107	Colorado Spruce	2	EA
108	Shrubs TBD by Homeowner	10	EA
109	Sideoats Grama	258	EA
110	Walkers Low Catmint	311	EA
111	Turf Sod	16272	SY
112	Steel Edging	191	LF
	Tree Watering Bags	27	EA
	Topsoil (6" Depth)	2148	CY
	12" Class 52 DIP	2314	LF
	8" Class 52 DIP	104	LF
	6" Class 52 DIP	72	LF
	1 1/2" Type K Copper	7	LF
	1" Type K Copper 3/4" Type K Copper	49 190	LF LF
	3/4" Type G Copper	212	LF
	5" KC-1 Spec Hydrant Type A	5	EA
	12" Gate Valve	6	EA
-	8" Gate Valve	1	EA
-	6" Gate Valve	8	EA
	12"x8" Tee	1	EA
 	12"x6" Tee	8	EA
	12" 90° Bend	1	EA
-+	12" 45° Bend	6	EA
130	12" 22.5° Bend	4	EA
	8" 22.5° Bend	2	EA
132	6" 90° Bend	5	EA
133	6" 45° Bend	4	EA
134	12"x8" Reducer	2	EA
	12"x2" Tapped Plug	2	EA
-+	6"x2" Tapped Plug	1	EA
	12" Solid Sleeve	1	EA
	8" Solid Sleeve	3	EA
	6" Solid Sleeve	3	EA
	Straddle Block	11	EA
	1" Service Tap	1	EA
	3/4" Service Tap	9	EA
-	Curb Stop	10	EA
	3/4" Meter & Pit	8	EΑ
	1 1/2" Dielectric Coupling 2" Galvanized Pipe (Flushing Assembly)	3	EA EA
	12" Air Release Valve with Vault	1	EA
	Adjust Grade of Air Release Valve Cover	1	EA
-	Relocate KCMO Fiber	2600	LF
	Variable Message Signs	2600	EA
	Silt Fence	454	LF
-	Curb Inlet Proctection	18	EA
	Area Inlet Protection	8	EA
- +	Junction Box Protection	2	EA
	Construction Entrance	5438	SF
	Rock Check Dam	6	EA
I '		521	

WALTER P MOORE

MO PE Corporation No. 1999141112

WALTER P. MOORE AND ASSOCIATES, INC. 920 MAIN STREET, TENTH FLOOR KANSAS CITY, MISSOURI 64105.2008

PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS
CITY, MISSOURI
CITY PROJECT #
89008230
FEDERAL PROJECT #
STP-3451(401)
NW 72ND STREET
IMPROVEMENTS



SUBMITTALS

1 12/21/2018 ADDENDUM NO. 3

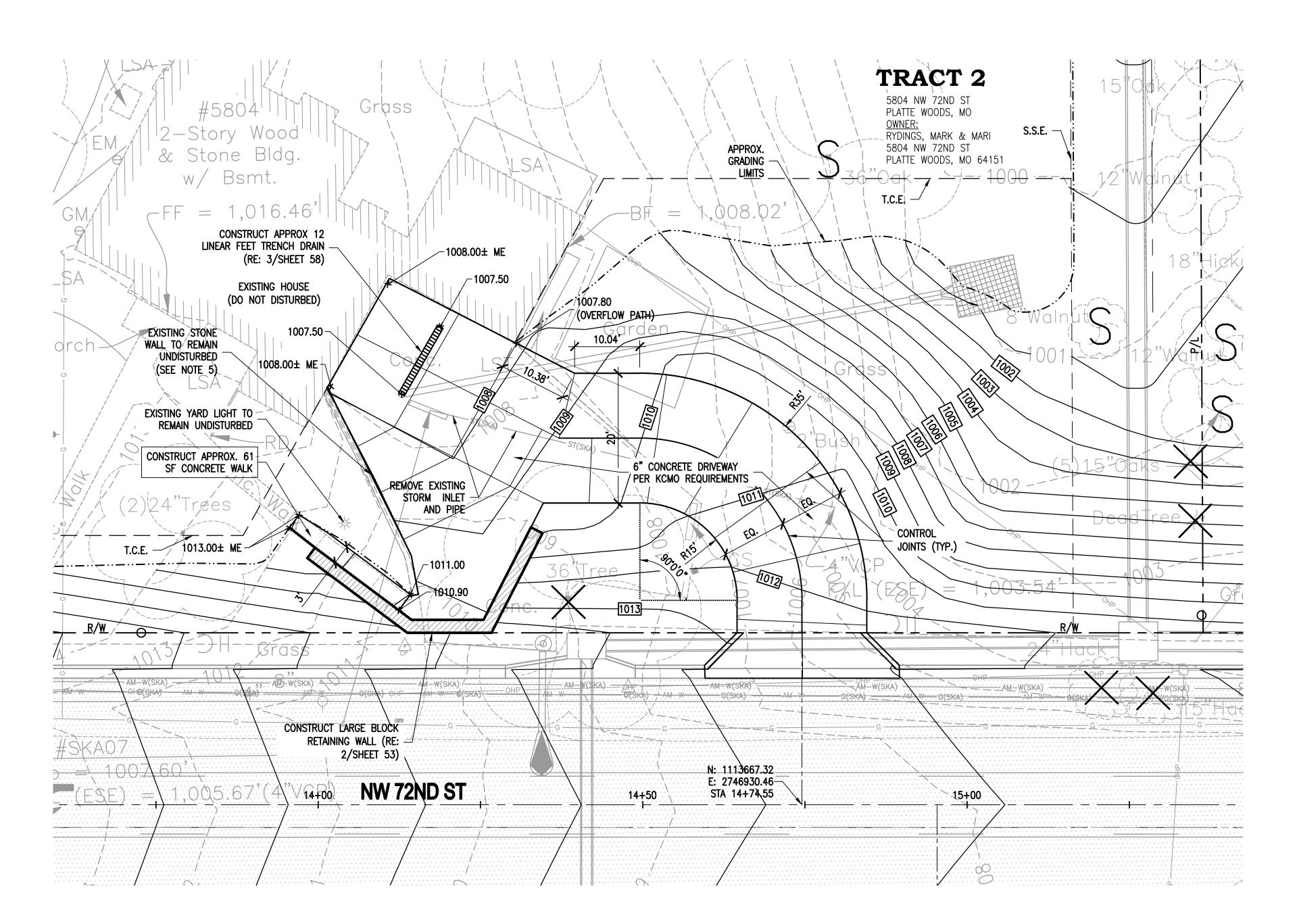
2 01/15/2019 ADDENDUM NO. 5

NO. DATE

DESIGNED BY	
	M.J.
REVIEWED BY	
	D.L.
DRAWN BY	
	D.M.
PROJECT NUMBER	
	C08-13003-
DATE	
	22 JUNE 20
SHEET TITLE	

GENERAL NOTES &
SUMMARY OF
QUANTITIES

SHEET NUMBER



XXX.XX TC - TOP OF CURB ELEVATION XXX.XX ME – MATCH EXISTING ELEVATION

GRADING LEGEND

∕-XXX.XX

∕ XXX.XX LP

∕XXX.XX BW

∕XXX.XX HP

--XXX--

SPOT ELEVATION

∠XXX.XX G — GUTTER ELEVATION

∠XXX.XX TW — TOP OF WALL ELEVATION

LIP OF CURB ELEVATION

BOTTOM OF WALL ELEVATION

- TREE AND/OR SHRUB TO BE

- SAVE TREE AND/OR SHRUB (PROTECT AS NECESSARY)

PROPOSED CONTOUR

EXISTING CONTOUR

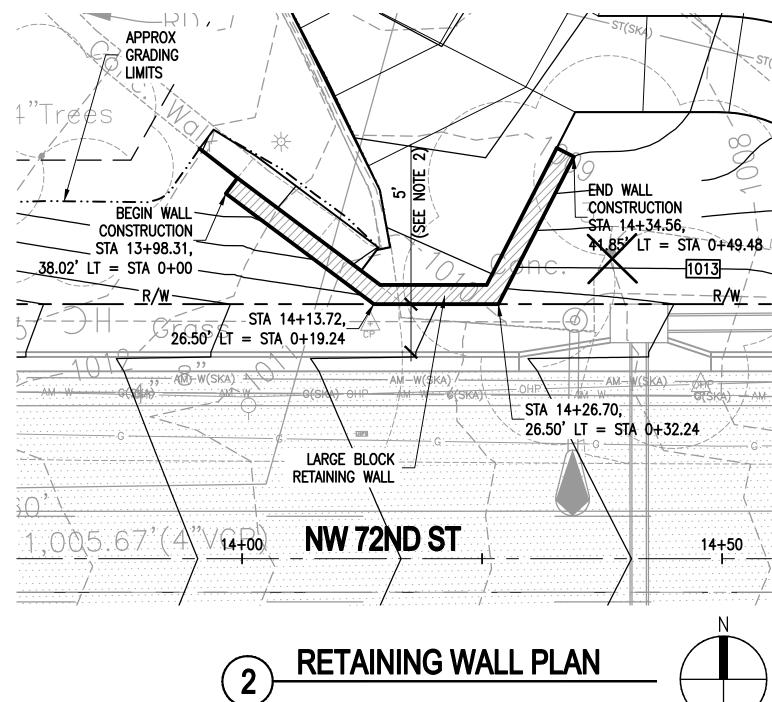
DRAINAGE PATH

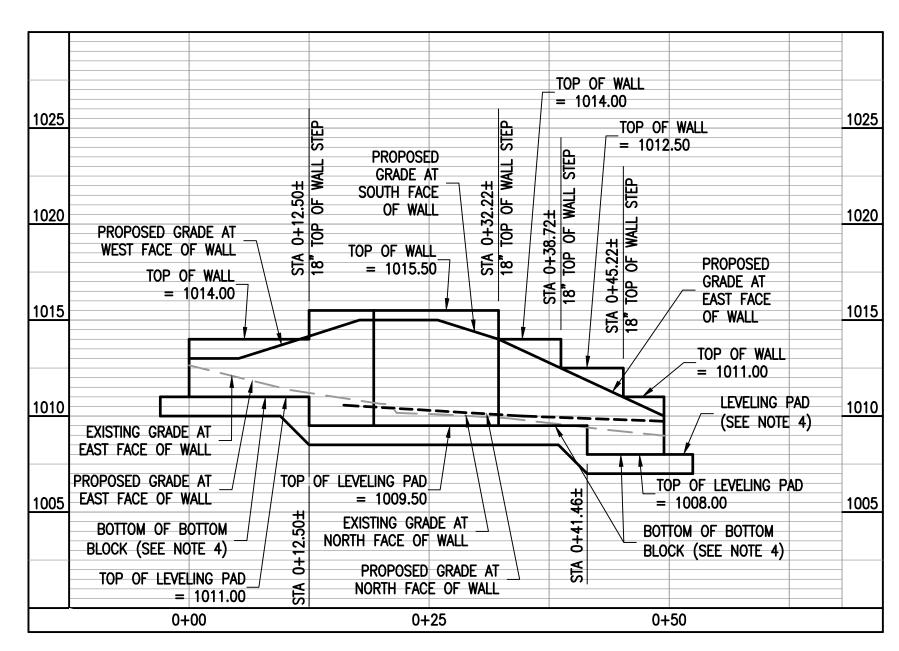
PRIVATE DRIVE PLAN SCALE: 1" = 10"

. REFER TO DETAIL 4 ON SHEET 58 FOR TYPICAL RETAINING WALL SECTION

NOTES:

- 2. BOTTOM OF THE FRONT FACE OF THE BOTTOM BLOCK IS TO BE LOCATED 5' BEYOND BACK OF CURB
- 3. CONTRACTOR IS TO ENGAGE A LICENSED PROFESSIONAL ENGINEER TO DETAIL AND DESIGN THE PROPOSED RETAINING WALL TO MEET THE PROJECT SPECIFICATIONS AND THE DESIGN INTENT. SIGNED AND SEALED DRAWINGS, CALCULATIONS, INSTALLATION REQUIREMENTS, ETC. ARE TO BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL. SEE DETAIL 4 ON SHEET 58 FOR ADDITIONAL INFORMATION.
- 4. LEVELING PAD AND BURY DEPTHS ARE NOT SHOWN. THE DESIGN OF THESE ITEMS ARE TO BE PROVIDED BY THE CONTRACTOR'S SELECTED PROFESSIONAL ENGINEER.
- 5. INSTALL EXPANSION JOINT MATERIAL BETWEEN THE EXISTING STONE WALL AND THE CONCRETE DRIVEWAY PAVEMENT.





SCALE: 1" = 10'

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IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT# STP-3451(401) NW 72ND STREET **IMPROVEMENTS**



SUBMITTALS

1 01/15/2019 ADDENDUM NO. 5

NO. DATE

DESIGNED BY M.J.H. REVIEWED BY D.L.B. DRAWN BY D.M.B. PROJECT NUMBER C08-13003-00

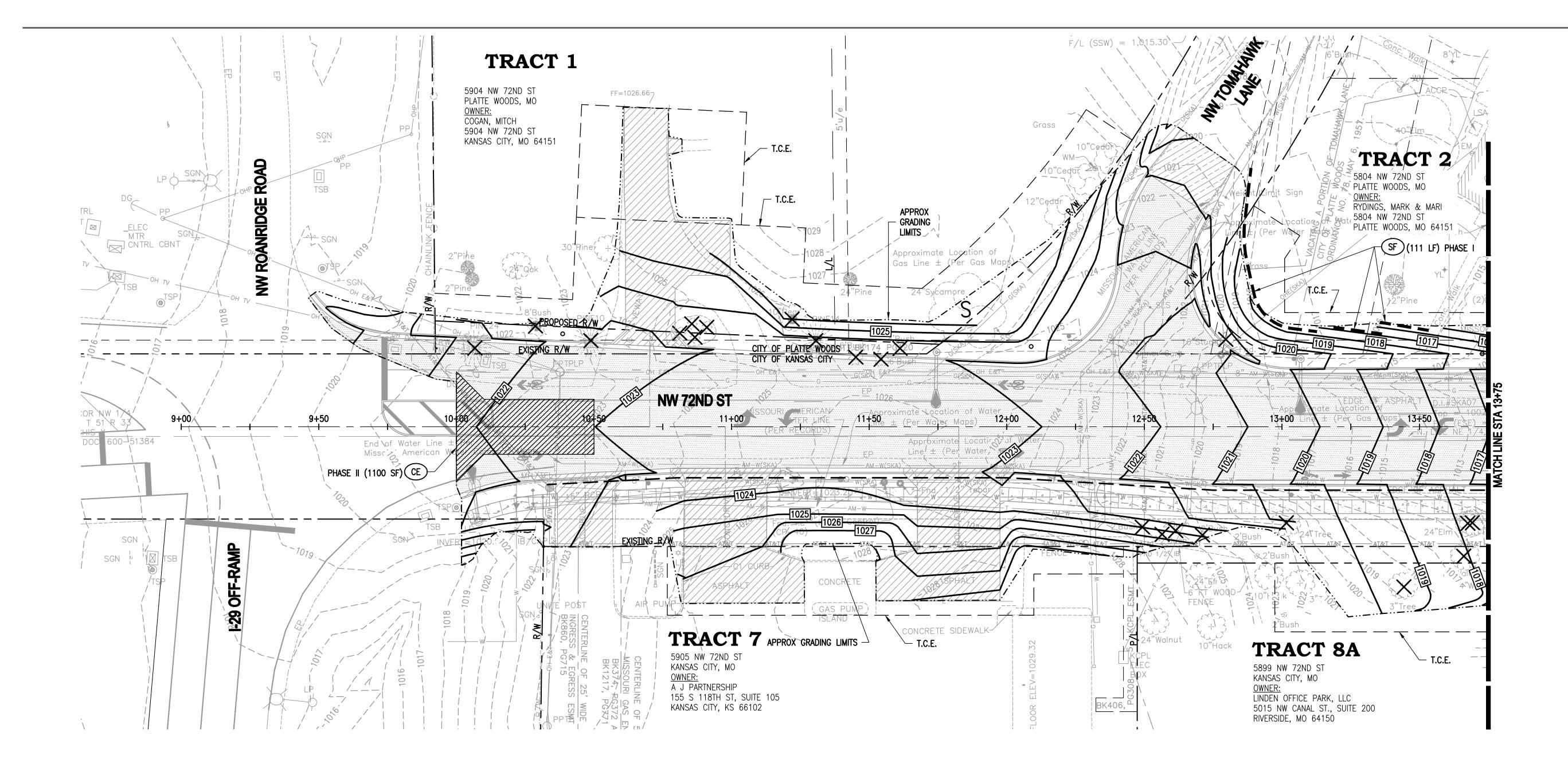
> PRIVATE DRIVE **DETAILS**

SHEET NUMBER

DATE

SHEET TITLE

22 JUNE 2018



- 1. EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. INSTALL ADDITIONAL DEVICES AS REQUIRED AND AS CONSTRUCTION OPERATIONS PROCEED.
- 2. COORDINATE DEVICES SHOWN WITH THE PROJECT'S
- STORM WATER POLLUTION PREVENTION PLAN.

 3. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE FEDERAL, STATE, AND CITY REGULATIONS PERTAINING TO EROSION CONTROL.

EROSION CONTROL PHASING

PHASING I (PRIOR TO CLEARING OPERATIONS)

- INSTALL SILT FENCE(S) (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT
- FENCE)
- INSTALL TEMPORARY SEDIMENT BASINS (SEE SHEET 85)
 INSTALL INLET PROTECTION AT EXISTING STORM SEWER INLET STRUCTURES
- BEGIN CLEARING AND GRUBBING
- BEGIN GRADING

PHASING II (EARTHWORK OPERATIONS)

TEMPORARY SEED AREAS WHICH WILL BE INACTIVE FOR 14 DAYS OR MORE.

PHASING III (UTILITY AND ROADWAY IMPROVEMENTS)

- INSTALL UTILITIES, STORM SEWERS, CURBS, AND PAVING
- INSTALL INLET PROTECTION FOR NEW STORM SEWER INLETS AS WORK PROGRESSES
 INSTALL OUTLET PROTECTION AT STORM SEWER OUTFALLS
- INSTALL OUTLET PROTECTION AT STORM SEWER OUTFALLS

PHASE IV (FINAL GRADING)

- PERMANENTLY STABILIZED ALL DISTURBED AREAS AS THEY ARE BROUGHT TO FINAL GRADE
- REMOVE TEMPORARY EROSION CONTROL SYSTEMS ONCE UPSTREAM AREA IS A MINIMUM OF 70% STABILIZATION WITH PERMANENT VEGETATION.

EROSION CONTROL LEGEND

- SF SILT FENCE (APWA STD DWG NO ESC-03)
- CIP CURB INLET PROTECTION (APWA STD DWG NO ESC-06)
- AREA INLET PROTECTION (APWA STD DWG ESC-07)
- JBP JUNCTION BOX PROTECTION (APWA STD DWG ESC-07)

 CE CONSTRUCTION ENTRANCE (APWA STD DWG ESC-01)
- RCD ROCK CHECK DAM (APWA STD DWG ESC-10)
- DB) ==== DIVERSION BERM (APWA STD DWG ESC-05)

GRADING LEGEND

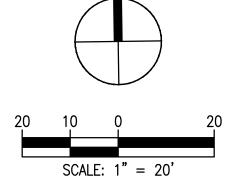
- ∠ XXX.XX TC

 TOP OF CURB ELEVATION
- XXX.XX SPOT ELEVATION
- XXX.XX LP LIP OF CURB ELEVATION
- XXX.XX G GUTTER ELEVATION
- XXX.XX ME MATCH EXISTING ELEVATION
- XXX.XX TW TOP OF WALL ELEVATION

∠XXX.XX BW − BOTTOM OF WALL ELEVATION

- ∼XXX.XX HP HIGH POINT
- XXX PROPOSED CONTOUR
- --XXX-- **EXISTING CONTOUR**
- ---> --- DRAINAGE PATH
 TREE TO BE SAVED (PROTECT AS NECESSARY)
- → TRFF AND/OR SHRUB TO BE REMOVE

- TREE AND/OR SHRUB TO BE REMOVED



WALTER P MOORE

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IN ASSOCIATION WITH

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CITY, MISSOURI
CITY PROJECT #
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NW 72ND STREET
IMPROVEMENTS



SUBMITTALS

NO. DATE

DESIGNED BY

M.J.H.

REVIEWED BY

D.L.B.

DRAWN BY

D.M.B.

PROJECT NUMBER

C08-13003-00

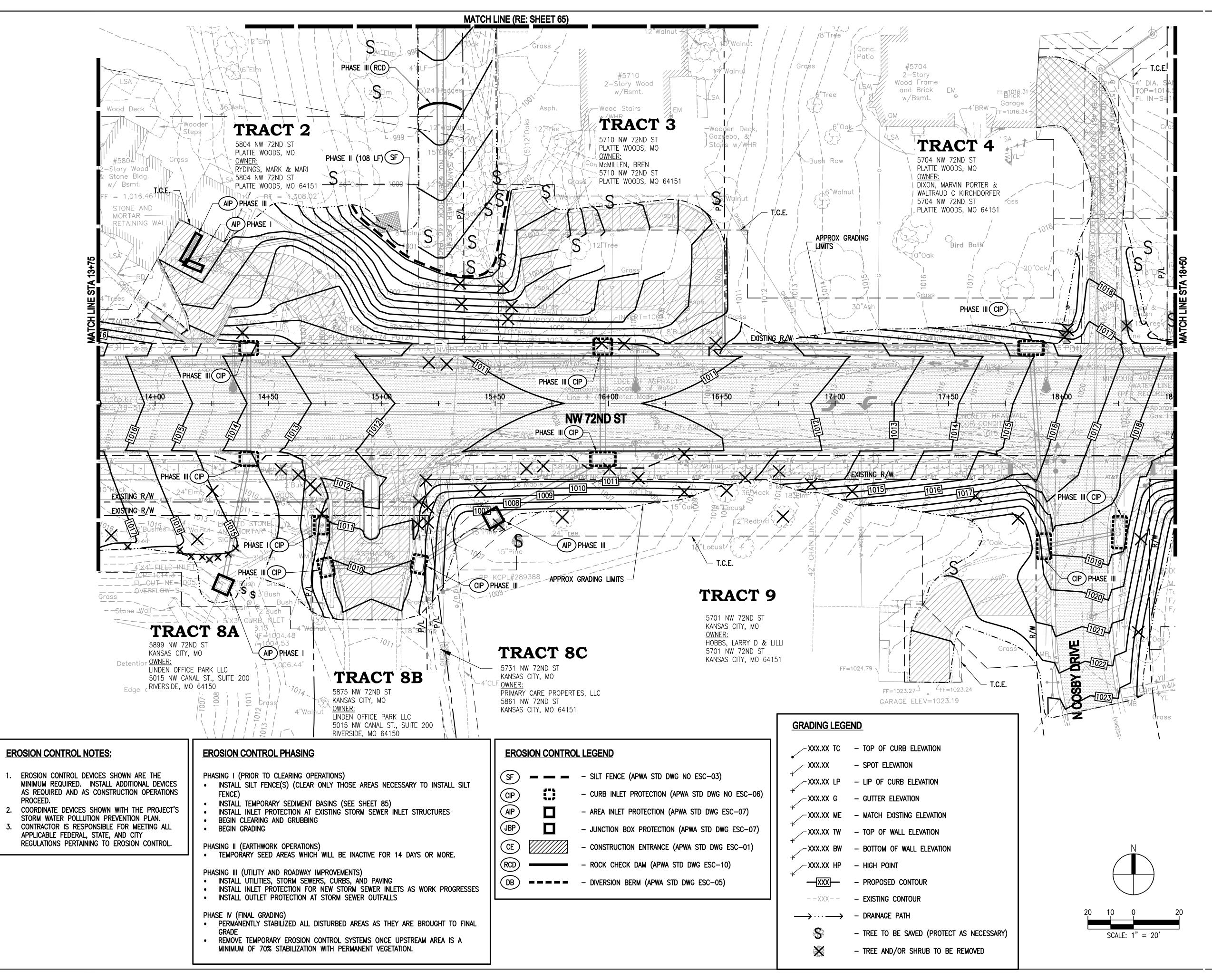
DATE

22 JUNE 2018

GRADING & TEMPORARY EROSION CONTROL PLAN

SHEET NUMBER

50



WALTER P MOORE

MO PE Corporation No. 1999141112

WALTER P. MOORE AND ASSOCIATES, INC. 920 MAIN STREET, TENTH FLOOR KANSAS CITY, MISSOURI 64105.2008

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IN ASSOCIATION WITH

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CITY PROJECT #
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FEDERAL PROJECT #
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IMPROVEMENTS



SUBMITTALS

1 01/15/2019 ADDENDUM NO. 5

NO. DATE

DESIGNED BY

M.J.H.

REVIEWED BY

D.L.B.

DRAWN BY

D.M.B.

PROJECT NUMBER

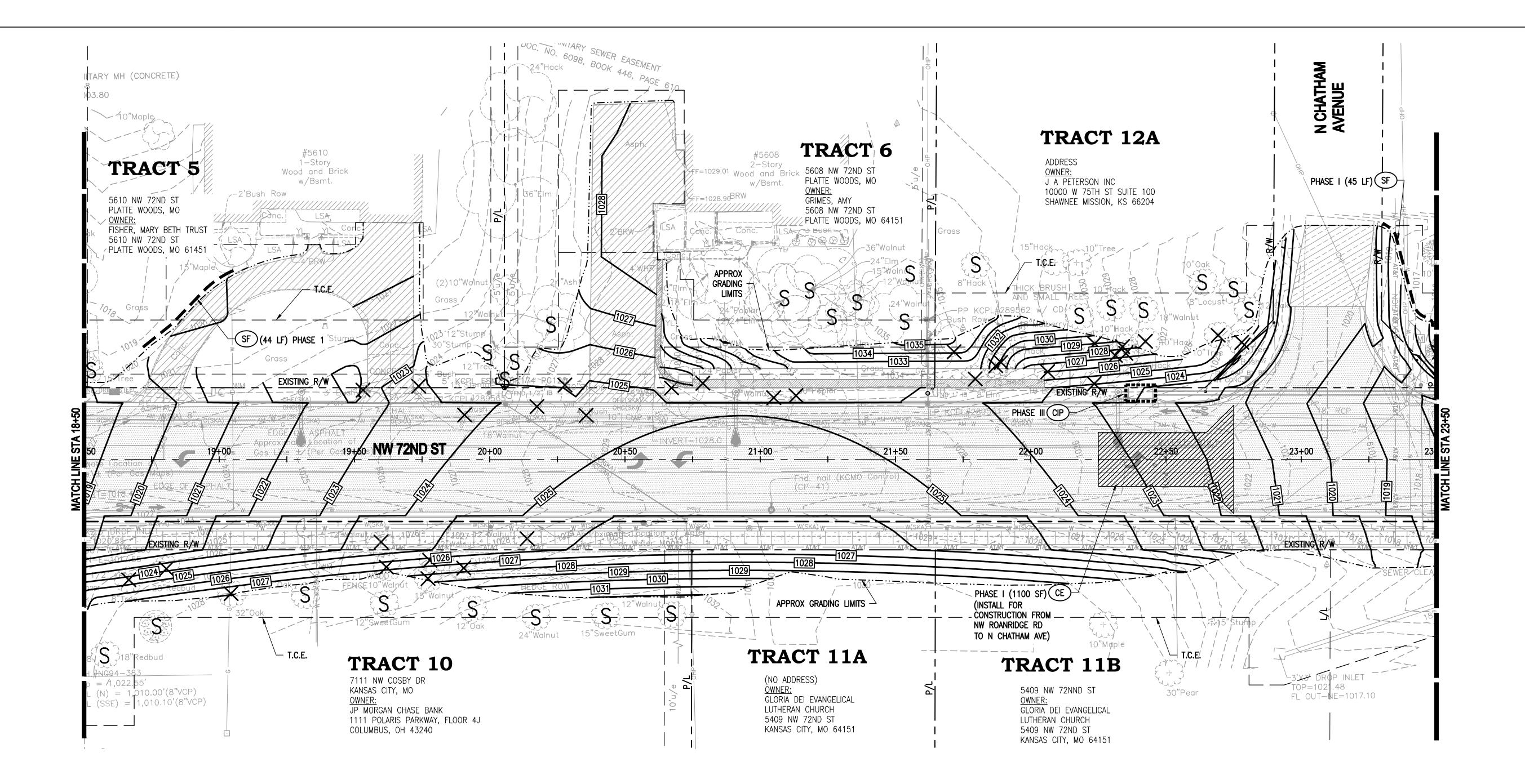
C08-13003-00

DATE

22 JUNE 2018

GRADING &
TEMPORARY EROSION
CONTROL PLAN

SHEET NUMBER



- 1. EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. INSTALL ADDITIONAL DEVICES AS REQUIRED AND AS CONSTRUCTION OPERATIONS
- 2. COORDINATE DEVICES SHOWN WITH THE PROJECT'S
- STORM WATER POLLUTION PREVENTION PLAN.
- 3. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE FEDERAL, STATE, AND CITY REGULATIONS PERTAINING TO EROSION CONTROL.

EROSION CONTROL PHASING

PHASING I (PRIOR TO CLEARING OPERATIONS)

- INSTALL SILT FENCE(S) (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT
- INSTALL TEMPORARY SEDIMENT BASINS (SEE SHEET 85)
- INSTALL INLET PROTECTION AT EXISTING STORM SEWER INLET STRUCTURES
- BEGIN CLEARING AND GRUBBING BEGIN GRADING

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• TEMPORARY SEED AREAS WHICH WILL BE INACTIVE FOR 14 DAYS OR MORE.

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- INSTALL UTILITIES, STORM SEWERS, CURBS, AND PAVING
- INSTALL INLET PROTECTION FOR NEW STORM SEWER INLETS AS WORK PROGRESSES • INSTALL OUTLET PROTECTION AT STORM SEWER OUTFALLS

PHASE IV (FINAL GRADING)

- PERMÀNENTLY STABILÍZED ALL DISTURBED AREAS AS THEY ARE BROUGHT TO FINAL
- REMOVE TEMPORARY EROSION CONTROL SYSTEMS ONCE UPSTREAM AREA IS A MINIMUM OF 70% STABILIZATION WITH PERMANENT VEGETATION.

EROSION CONTROL LEGEND

JBP

CE

RCD

- SILT FENCE (APWA STD DWG NO ESC-03)
- CIP AIP - CURB INLET PROTECTION (APWA STD DWG NO ESC-06)
 - AREA INLET PROTECTION (APWA STD DWG ESC-07)

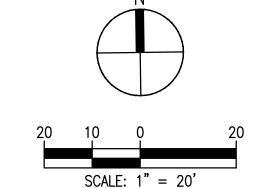
- JUNCTION BOX PROTECTION (APWA STD DWG ESC-07)

- CONSTRUCTION ENTRANCE (APWA STD DWG ESC-01)
- ROCK CHECK DAM (APWA STD DWG ESC-10)
- - DIVERSION BERM (APWA STD DWG ESC-05)

GRADING LEGEND

- ∠XXX.XX TC − TOP OF CURB ELEVATION
- SPOT ELEVATION ∕-XXX.XX
- ∠XXX.XX LP

 − LIP OF CURB ELEVATION
- ∠XXX.XX G GUTTER ELEVATION
- ∠XXX.XX ME MATCH EXISTING ELEVATION
- ∠XXX.XX TW TOP OF WALL ELEVATION
- ∼XXX.XX BW − BOTTOM OF WALL ELEVATION
- ∠XXX.XX HP HIGH POINT
- PROPOSED CONTOUR
- EXISTING CONTOUR --XXX--
- DRAINAGE PATH $\longrightarrow \cdots \longrightarrow$
- TREE TO BE SAVED (PROTECT AS NECESSARY) - TREE AND/OR SHRUB TO BE REMOVED



WALTER P MOORE

MO PE Corporation No. 199914111

920 MAIN STREET, TENTH FLOOR KANSAS CITY, MISSOURI 64105.2008

PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT # STP-3451(401) NW 72ND STREET **IMPROVEMENTS**



SUBMITTALS

1 01/15/2019 ADDENDUM NO. 5

NO. DATE

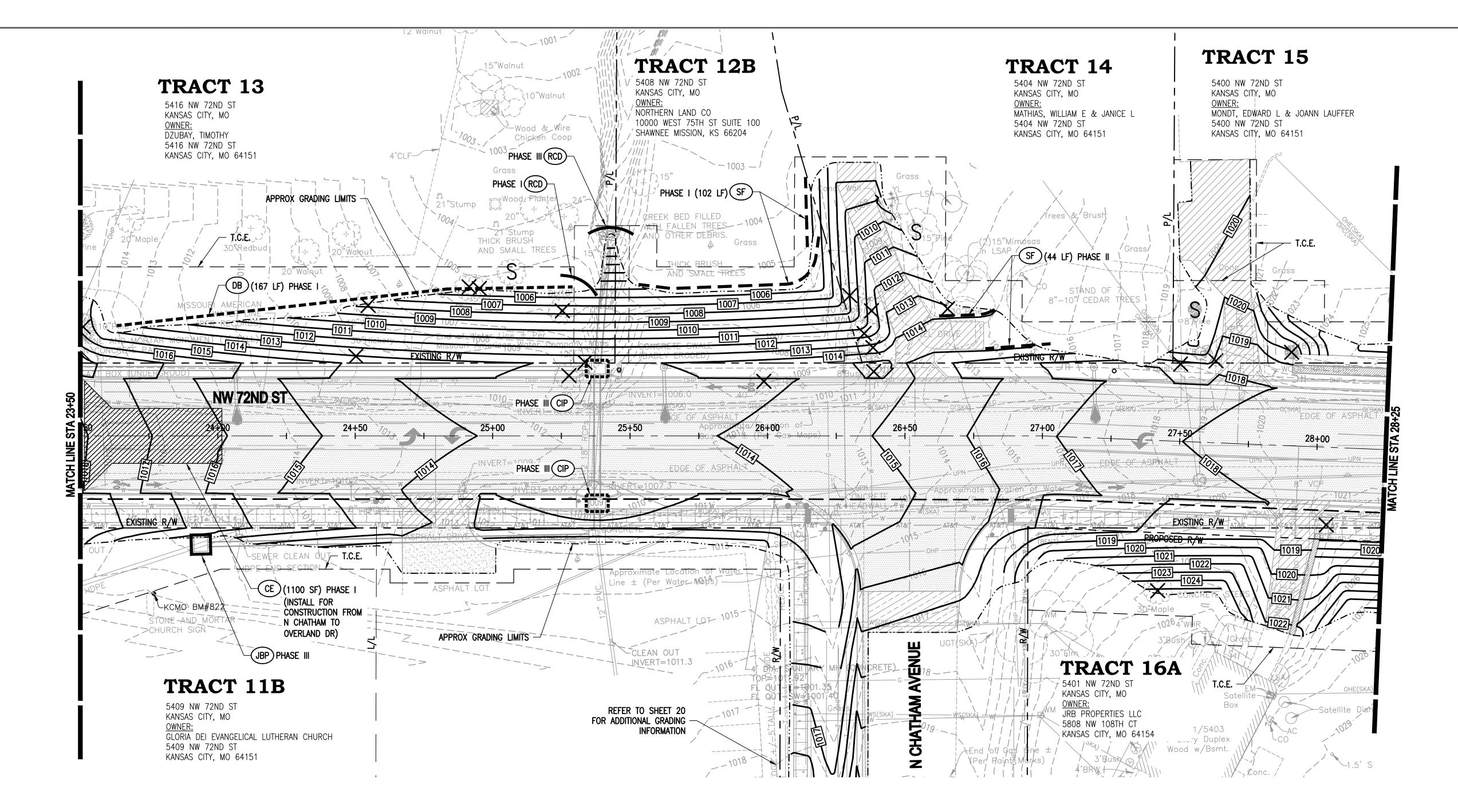
DESIGNED BY	
	M.J
REVIEWED BY	
	D.L
DRAWN BY	D.L
DIAWNU	
	D.M
PROJECT NUMBER	
	C08-13003-
DATE	
	22 JUNE 20
SHEET TITLE	

CONTROL PLAN

GRADING &

TEMPORARY EROSION

SHEET NUMBER



- 1. EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. INSTALL ADDITIONAL DEVICES AS REQUIRED AND AS CONSTRUCTION OPERATIONS PROCEED.
- 2. COORDINATE DEVICES SHOWN WITH THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN.
- 3. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE FEDERAL, STATE, AND CITY REGULATIONS PERTAINING TO EROSION CONTROL.

EROSION CONTROL PHASING

PHASING I (PRIOR TO CLEARING OPERATIONS)

- INSTALL SILT FENCE(S) (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT
- INSTALL TEMPORARY SEDIMENT BASINS (SEE SHEET 85)
- INSTALL INLET PROTECTION AT EXISTING STORM SEWER INLET STRUCTURES
- BEGIN CLEARING AND GRUBBINGBEGIN GRADING

PHASING II (EARTHWORK OPERATIONS)

TEMPORARY SEED AREAS WHICH WILL BE INACTIVE FOR 14 DAYS OR MORE.

PHASING III (UTILITY AND ROADWAY IMPROVEMENTS)

- INSTALL UTILITIES, STORM SEWERS, CURBS, AND PAVING
- INSTALL INLET PROTECTION FOR NEW STORM SEWER INLETS AS WORK PROGRESSES
 INSTALL OUTLET PROTECTION AT STORM SEWER OUTFALLS

PHASE IV (FINAL GRADING)

- PERMÀNENTLY STABILÍZED ALL DISTURBED AREAS AS THEY ARE BROUGHT TO FINAL
 CRADE
- REMOVE TEMPORARY EROSION CONTROL SYSTEMS ONCE UPSTREAM AREA IS A MINIMUM OF 70% STABILIZATION WITH PERMANENT VEGETATION.

EROSION CONTROL LEGEND

-) — - SILT FENCE (APWA STD DWG NO ESC-03)
- CIP CURB INLET PROTECTION (APWA STD DWG NO ESC-06)
- AIP AREA INLET PROTECTION (APWA STD DWG ESC-07)

 JUNCTION BOX PROTECTION (APWA STD DWG ESC-07)
- CE ______ CONSTRUCTION ENTRANCE (APWA STD DWG ESC-01)
- RCD ROCK CHECK DAM (APWA STD DWG ESC-10)
 -) ===== DIVERSION BERM (APWA STD DWG ESC-05)

GRADING LEGEND

XXX.XX TC - TOP OF CURB ELEVATION

XXX.XX - SPOT ELEVATION

XXX.XX LP — LIP OF CURB ELEVATION

∼XXX.XX G − GUTTER ELEVATION

XXX.XX ME - MATCH EXISTING ELEVATION

XXX.XX TW — TOP OF WALL ELEVATION

XXX.XX BW — BOTTOM OF WALL ELEVATION

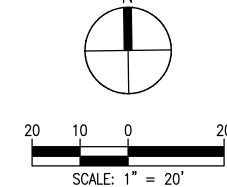
-XXX.XX HP - HIGH POINT

— XXX — PROPOSED CONTOUR

--XXX-- **– EXISTING CONTOUR**

→ ··· → − DRAINAGE PATH

TREE TO BE SAVED (PROTECT AS NECESSARY)
 TREE AND/OR SHRUB TO BE REMOVED



WALTER P MOORE

MO PE Corporation No. 1999141112

WALTER P. MOORE AND ASSOCIATES, INC 920 MAIN STREET, TENTH FLOOR KANSAS CITY, MISSOURI 64105.2008 PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS
CITY, MISSOURI
CITY PROJECT #
89008230
FEDERAL PROJECT #
STP-3451(401)
NW 72ND STREET
IMPROVEMENTS



SUBMITTALS

NO. DATE

DESIGNED BY

M.J.H.

REVIEWED BY

D.L.B.

DRAWN BY

D.M.B.

PROJECT NUMBER

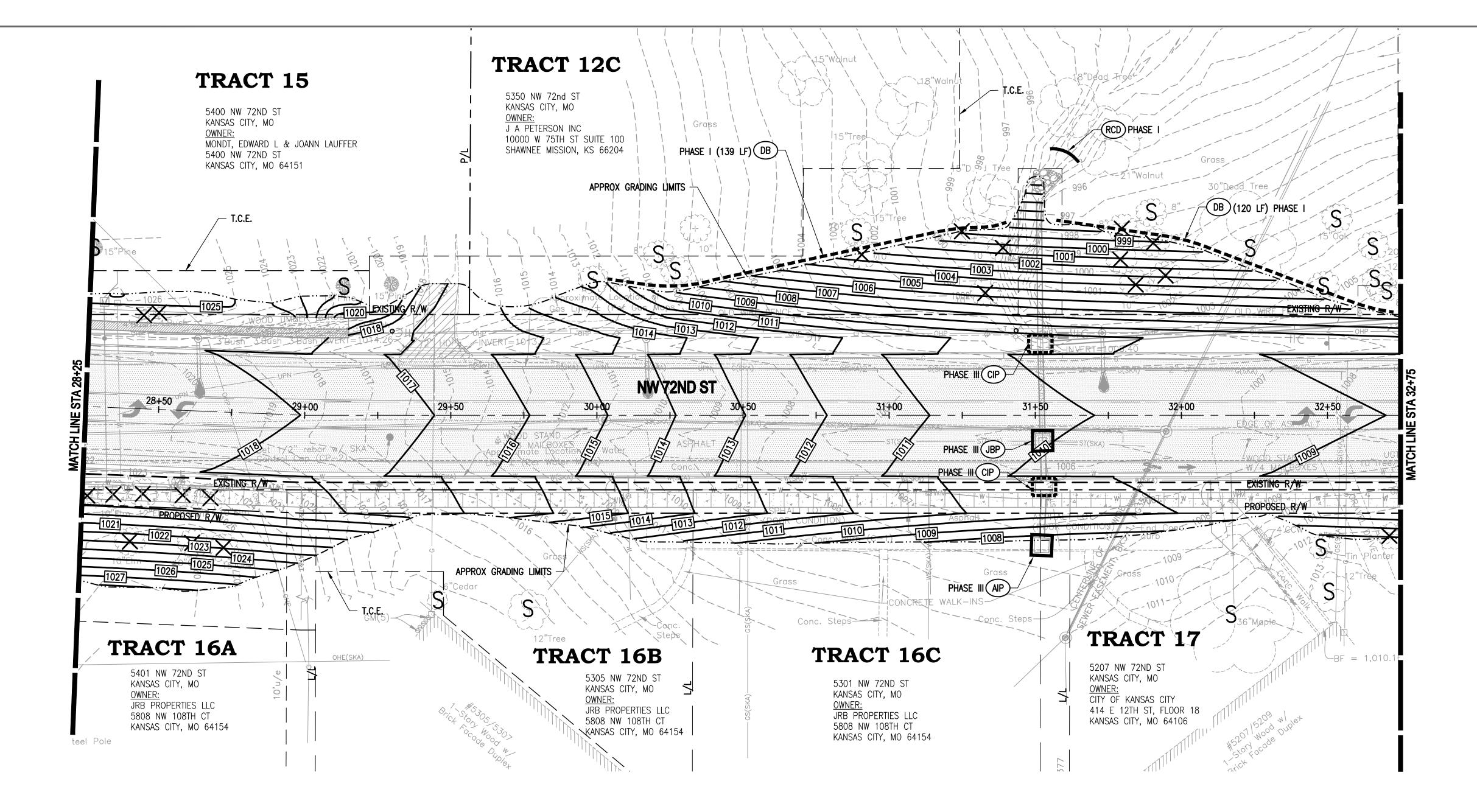
C08-13003-00

DATE

22 JUNE 2018

GRADING &
TEMPORARY EROSION
CONTROL PLAN
SHEET NUMBER

62 OF 1



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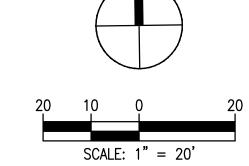
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- - DIVERSION BERM (APWA STD DWG ESC-05)

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- SPOT ELEVATION −XXX.XX
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MO PE Corporation No. 1999141112

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PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

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CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT # STP-3451(401) NW 72ND STREET **IMPROVEMENTS**



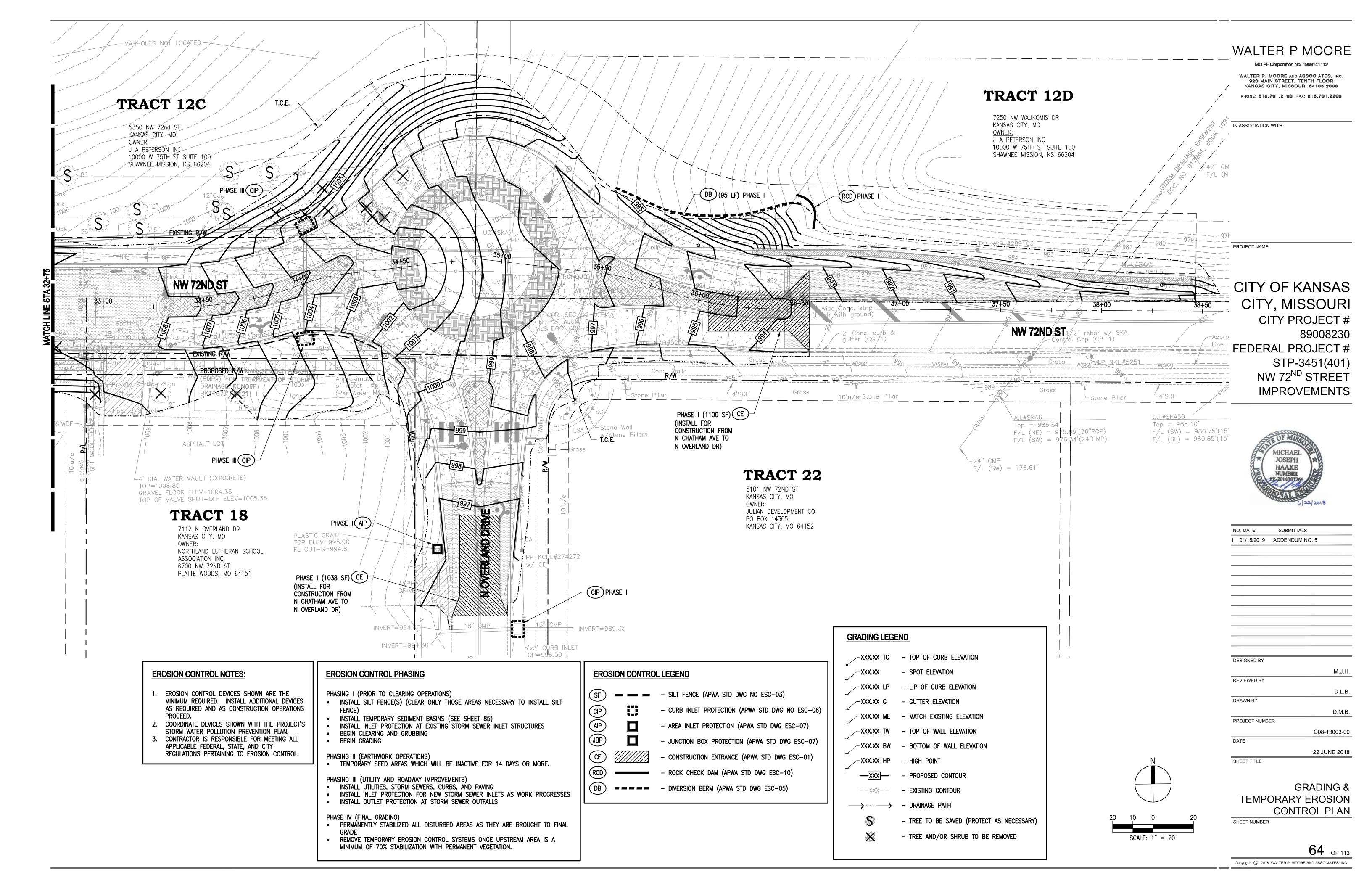
NO. DATE SUBMITTALS 1 01/15/2019 ADDENDUM NO. 5 DESIGNED BY M.J.H. REVIEWED BY D.L.B. DRAWN BY D.M.B. PROJECT NUMBER C08-13003-00 22 JUNE 2018 SHEET TITLE

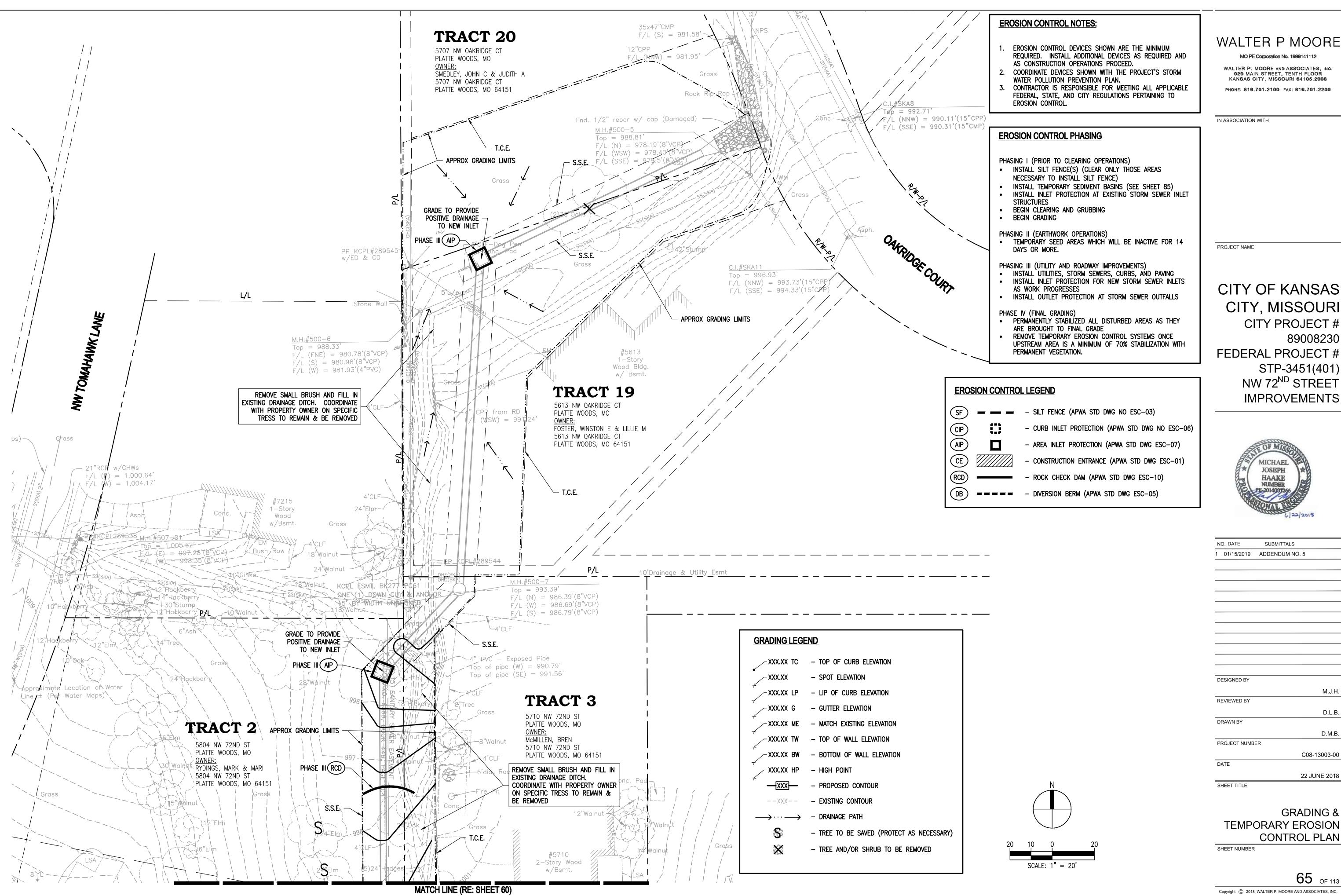
> **GRADING & TEMPORARY EROSION** CONTROL PLAN

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SHEET NUMBER

63 OF 113





WALTER P MOORE

MO PE Corporation No. 1999141112

WALTER P. MOORE AND ASSOCIATES, INC. 920 MAIN STREET, TENTH FLOOR KANSAS CITY, MISSOURI 64105.2008

PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT # STP-3451(401) NW 72ND STREET



SUBMITTALS

1 01/15/2019 ADDENDUM NO. 5 **DESIGNED BY** M.J.H. D.L.B. D.M.B. PROJECT NUMBER C08-13003-00 22 JUNE 2018

GRADING & TEMPORARY EROSION CONTROL PLAN



STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

For Building & Grading Projects Disturbing 1 or More Acres

Missouri State General Operating Permit (Land Disturbance Permit) MO-R100006

NW 72nd Street Improvements

(East of I-29 and 72nd Street)

Sections 17, 18 and 19, Township 51 North, Range 33 West

Kansas City, Platte County, Missouri

KCMO Project # 89008230

Table of Contents

PART I: GENERAL PROJECT INFORMATION	5
PART II: PROJECT PLANNING & DESIGN	7
PART III: CONSTRUCTION PHASE	13
PART IV: GENERAL REQUIREMENTS	17
PART V: BMP PERFORMANCE REQUIREMENTS	19
PART VI: ADDITIONAL REQUIREMENT AND CONTROLS	21
PART VII: CERTIFICATION	25
PART VIII: SITE INSPECTION REPORTS	29
PART IX: SWPPP APPENDICES	31
Appendix A – General Location Map	32
Appendix B – Site Maps	33
Appendix C – City's Land Disturbance Permit	34
Appendix D – Inspection Reports	43
Appendix E – SWPPP Update and Modification Log	48
Appendix F – Additional Information	49

PART I: GENERAL PROJECT INFORMATION

(To be completed by OWNER or DESIGN PROFESSIONAL)

Project Site	Name:	NW 72 nd Street Improvements				
Project Site	Street/Location	on: NW 72 nd Street East of	I-29 to Overla	and Drive		
City: _ F	Kansas City		State:	МО	Zip Code:	64151
County:	Platte					
Section, To	wnship, Range	e: Sections 17, 18 and 19, Tow	rnship 51 Nort	th, Range 3	33 West	
Project Nui	mber:	89008230				
Owner's N	ame:	City of Kansas City, Missou	ri			
Owner's Ac	ddress:	Public Works Department 414 E. 12 th Street 18 th Floor Kansas City, MO 64106				
Owner's Co	ontact:	Kim Pemberton Phone: 816-513-2741 Email: kim.pemberton@kcn	no.org			

General Description of Project:

Improvements include the reconstruction of approximately 2500 feet of NW 72nd Street, from the intersection of Roanridge Road and 72nd east 2500 feet to 350 feet east of Overland Drive. Reconstruction includes removing the existing pavement and constructing new pavement, a sidewalk on the south side, a roundabout at Overland Drive, new driveways, storm sewer improvements, sanitary sewer improvements, new signing, seeding, sodding, erosion control, new 12-inch and 8-inch water main and service lines, street lighting, and other appurtenances as necessary.

Estimated Project Start Date:	May 2019
Estimated Project Completion Date:	August 2020

PART II: PROJECT PLANNING & DESIGN

(To be completed by DESIGN PROFESSIONAL)

Designer	r's Name:	Michael J. Haake, P.E.					
Compan	y: Walte	r P. Moore and Associates, Inc.					
Address	: 920 Mair	Street, 10 th Floor					
City:	Kansas Cit	y	State:	MO	Zip Code:	64105	
Phone:	816-701-21	100	Fax:	816-701-2200			
Email:	mhaake@v	valterpmoore.com					
	C	ities for this project will include grubbing of existing vegetation	the follow	wing (Check all th	nat apply):		
▼ S	stripping of to	opsoil within the limits of construc	ction				
▼ S	tockpiling an	nd re-spreading topsoil					
▽ U	Jtility trench	excavation and backfill					
▼ P	reparing sub	grade for streets and sidewalks					
▼ B	Backfilling cu	rbs and sidewalks					
V C	Construction	of sediment basins or storm water	r detention	ons			
▽ D	Disposal area	s for excess excavated material					
□В	Borrow areas	for fill material					
	Construction	of compacted fill areas for reside	ntial build	ding construction			
	Other (specif	y):					
Note: Limi	its of land di	sturbance must be clearly shown	on the e	rosion and sedime	ent control pla	ın.	
Total Sit	te Area:	7.66					acres
Total Es	timated Are	ea to be disturbed by all activities	s : _	7.66			acres

Runoii Coefficient prior to development: 0.50	
Runoff Coefficient after development: 0.55	
Describe and Identify the location of any storm water discharge associated with industrial activities other than construction at the site, such as dedicated asphalt and concrete plants:	
None	
Controls to Reduce pollutants from these materials (if applicable):	
Not applicable	
Name of Receiving Water Body: Lake Waukomis Class: L3	_
Distance from Project outfall to receiving water body: approximately 1000 (feet)	
Does this Project require 401 and 404 permits as defined under the Clean Water Act? (yes/no): No If Yes, attach the permits to the SWPPP. Note: If outfall discharge is to more than one receiving water body, attach information for each outfall.	_
Endangered or threatened species/critical habitats on or near the project (yes/no): No	_
If Yes, describe the species and / or critical habitat: N/A	_
If Yes, describe steps taken to address the impact of construction: N/A	_
	,
Historic Sites on or near the construction site? (yes/no): No If Yes, describe steps taken to address the impact of construction: N/A	

Soils, Slopes, Vegetation, and Current Drainage Patterns existing soil conditions at construction site including soil types, slopes and slope lengths, drainage patterns, and other topographic features that might affect erosion and sediment control (should also be included on site map).

Soils throughout the project area are lean clay loess soils that are susceptible to disturbance from construction traffic during rainy weather. The area is mostly residential with grass, shrubs and trees lining the current roadway. Current drainage patterns vary throughout the project due to the mild and steep slopes. All of the storm water discharge generated from the project site ultimately flows to Lake Waukomis.

Potential Sources of Pollution. Identify and list all potential sources of sediment, which may reasonably be expected to affect the quality of stormwater discharges from the construction site.

Land Disturbance (site clearing and stripping operations necessary to construct the Project as well as site grading operations), construction vehicle access, excavated materials, borrow materials, and soil storage stockpiles.

Identify and list all potential sources, other than sediment, which may reasonably be expected to affect the quality of storm water discharges from the constructions site.

Construction materials, storage of construction materials, vehicle fluids, sanitary sewage, non-storm water discharges, and temporary on-site refueling activities.

CONSTRUCTION SITE BEST MANAGEMENT PRACTICES

<u>Description of Best Management Practices (BMPS):</u> The SWPPP must include a description of both structural and nonstructural BMPs that will be used at the site. The SWPPP must have sufficient information to be of practical use to contractors and site construction workers to guide the installation and maintenance of BMPs. The SWPPP must provide the following general information for each BMP which will be used one or more times at the site:

- a.) Physical description of the BMP;
- b.) Site and physical conditions that must be met for effective use of the BMP;
- c.) BMP installation/construction procedures, including typical drawings; and
- d.) Operation and maintenance procedures for the BMP.

The SWPPP must provide the following information for each specific instance where a BMP is to be installed:

- a.) Whether the BMP is temporary or permanent,
- b.) Where, in relation to other site features, the BMP is to be located;
- c.) When the BMP will be installed in relation to each phase of the land disturbance procedures to complete the project; and
- d.) What site conditions must be met before removal of the BMP if the BMP is not a permanent BMP?

(check all that apply)

Soil Stabilization and Slope P	rotection BMPs:	
✓ Scheduling	☐ Straw Mulch	☐ Earth Dikes/Swales & Lined Ditches
☐ Hydraulic/Wood Mulch	☐ Slope Drains	☑ Outlet Protection/Velocity Dissipate
☐ Hydroseeding	☐ Streambank Stabilization	☑ Geotextiles, ECBs or TRMs
☐ Soil Binders	▼ Preservation of Existing Vege	tation
□ Other (specify):		
Perimeter Controls & Sedime	ent Barriers:	
☑ Silt Fence	▼ Sediment Trap	☐ Fiber Rolls
☐ Sandbag barrier	▼ Storm Drain Inlet Protection	▼ Sediment/Desilting Basin
☑ Check Dam	☐ Gravel Bag Berm	☐ Street Sweeping and Vacuuming
Other (specify):	iversion Berms	
Establish Stabilized Construc	tion Exits:	
✓ Stone Pads	☐ Entrance/Outlet Tire Wash	
☐ Other (specify):		

Over Water
e Detection
Cleaning
rossing
Mainte nance
-
I anage me nt
gement
anage me nt
n Devices
,
e following usive:
anagement on Agency
gemen anager Devices

NOTICE: Failure to design, prepare, or modify a SWPPP compliant with State and Federal Law as well as your scope of services subjects you to liability as outlined in your agreement.

PART III: CONSTRUCTION PHASE

(To be completed by GENERAL CONTRACTOR)

General Contractor's Name:		
Company:		
Address:		
City:	State:	Zip Code:
Project Manager:		
Phone:	I	Fax:
Email:	(Cell Phone:
Contractor's Individual Respon	sible for Environmental Matters	s:
Phone:	F	ax:
Email:	C	Cell Phone:
Email: How will they be notified when a r		

ames:		
☐ Grading	☐ Gas	▼ Sediment controls
☐ Storm sewers	☐ Blasting	✓ Water
☐ Paving	☐ Sanitary sewers	▼ Electric
☐ Concrete flatwork	☐ Concrete drainage stru	ctures
☐ Seeding and mulching	☐ Curb and gutter	
Other (specifty):		
List All Additional subcontractors list updated throughout the project) Contacts		e of work includes land disturbance activities (keep Contact Phone Number
Other Contractors: List all other land disturbance:	contractors which will be doing	work on the site with their own contractors involving
Contacts		Contact Phone Number

Subcontractors: Check all items for which subcontractors will be used and attach a list of the subcontractor's company

Completed SWPPP approval: Groundbreaking activities begin: Construction temporarily or permanently ceased: Stabilization measures initiated: Permanent stabilization achieved: Sequence of Construction: The General Contractor must complete the following intended construction sequence and timing for major activities, including any opportunities for phasing, grading and stabilization activities to minimize the contractor of disturbed soil that will be subject to not extend a property of the stabilization activities to minimize the contractor of the stabilization activities and the stabilization activities activ	Important Recorded Dates: To be filled in during	g construction activities:
Construction temporarily or permanently ceased: Stabilization measures initiated: Permanent stabilization achieved: Sequence of Construction: The General Contractor must complete the following intended construction sequence and timing for major activities, including any opportunities for phasing, grading and stabilization activities to minimize the	Completed SWPPP approval:	
Stabilization measures initiated: Permanent stabilization achieved: Sequence of Construction: The General Contractor must complete the following intended construction sequence and timing for major activities, including any opportunities for phasing, grading and stabilization activities to minimize the	Groundbreaking activities begin:	
Permanent stabilization achieved: Sequence of Construction: The General Contractor must complete the following intended construction sequence and timing for major activities, including any opportunities for phasing, grading and stabilization activities to minimize the	Construction temporarily or permanently ceased	:
Sequence of Construction: The General Contractor must complete the following intended construction sequence and timing for major activities, including any opportunities for phasing, grading and stabilization activities to minimize the	Stabilization measures initiated:	
timing for major activities, including any opportunities for phasing, grading and stabilization activities to minimize the	Permanent stabilization achieved:	
Phase BMP's & Stabilization Methods 1.)	timing for major activities, including any opportunoverall amount of disturbed soil that will be subjected. Phase 1.)	ities for phasing, grading and stabilization activities to minimize the et to potential erosion at one time. BMP's & Stabilization Methods
2.)	2.)	
3.)	·	
4.) 5.)	·	
6.)	· · · · · · · · · · · · · · · · · · ·	<u> </u>
7.)	· .	
8.)	· -	
9.)	·	 -
10.)	·	<u> </u>
11.)	<u> </u>	
12.)	´	<u> </u>
13.)	´	<u> </u>
14.)	´	
15.)	´	
16.)	´	
17.)	´ 	
·	·	
·	18.)	
20.)	18.)	<u> </u>

PART IV: GENERAL REQUIREMENTS

(To be understood and implemented by GENERAL CONTRACTOR)

- 1) Discharges must not cause violations of the Water Quality Standards 10 CSR 20-7.031(3), which state, in part, that no water contaminant, by itself or in combination with other substances, will prevent the waters of the state from meeting the following conditions:
 - a. Waters must be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - b. Waters must be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - c. Waters must be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - d. Waters must be free from substances or conditions in sufficient amounts to have a harmful effect on human, animal or aquatic life;
 - e. There must be no significant human health hazard from incidental contact with the water;
 - f. There must be no acute toxicity to livestock or wildlife watering;
 - g. Waters must b free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - h. Waters must be free from used tires, car bodies, appliances, demolition debris, used vehicles, or equipment and solid waste as defined in Missouri's Solid Waste Law, Section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to Section 260.200-260.247.
- 2) The contractor must designate an individual to be responsible for environmental matters (See Part III). The individual responsible for environmental matters must have a thorough and demonstrable knowledge of the site's SWPPP, City's Land Disturbance Permit (See Appendix C), and sediment and erosion control practices in general. The individual responsible for environmental matters or a designated inspector must be knowledgeable in erosion, sediment, and stormwater control principles, must inspect all structures that function to prevent pollution of waters of the state.
- The contractor must store all paint, solvents, petroleum products and petroleum waste products, and storage containers (such as drums, cans, or cartons) according to best management practices (BMPs). The materials exposed to precipitation must be stored in watertight, structurally sound, closed containers. All containers must be inspected for leaks or spillage during the once per week inspection of BMPs.
- 4) The contractor must retain a copy of the SWPPP on the construction site during normal working hours and make it available to a department representative upon request.
- 5) The contractor must post a copy of the public notification sign on the information board at the main entrance to the site. The public notification sign must contain:

- a. The land disturbance permit number;
- b. The name and phone number of individual responsible for environmental matters; and
- c. The onsite location of the SWPPP and the hours that it is viewable to the public.
- d. The public notification sign must remain posted at the site until the site has been fully stabilized.
- 6) The contractor must at all times maintain all pollution control measures and systems in good order to achieve compliance requirements of the SWPPP, as well as State and Federal law.

PART V: BMP PERFORMANCE REQUIREMENTS

(To be maintained by GENERAL CONTRACTOR)

- 1) <u>Discharge to Valuable Resources Waters:</u> Storm water discharges as described in 1.A, 1.B, and 1.C below must be considered discharges to "valuable resource waters". For the purpose of this SWPPP, the term "stream feet" will mean the distance in feet following the nearest drainage channel from the land disturbance to the valuable resource water.
 - a. Storm water discharges within 1000 stream feet of Streams identified as a losing stream*,
 - i.) Streams of lakes listed as an outstanding national or state resource water*,
 - ii.) Reservoirs or lakes used for public drinking water supplies*, or
 - iii.) Streams, lakes or reservoir identified as critical habitat for endangered species*;
 - iv.) Streams, lakes, or reservoirs listed as impaired for sediment and/or an unknown pollutant by standard MoDNR methodology.*
 - b. Storm water discharges:
 - i.) Within 100 stream feet of a permanent stream (class P) or major reservoir (class L2)*, or
 - ii.) Within two stream miles upstream of biocriteria reference locations*.
 - c. Storm water discharges where:
 - i.) Any of the disturbed area is defined as a wetland (Class W), by 10 CSR 20-7.031(1)(F)7*; or
 - ii.) The storm water discharges to a sinkhole or other direct conduit to groundwater.
 - iii.) Total Settable Solids from a storm water outfall must not exceed 2.5 m/L/hr.
 - iv.) If the disturbed area discharges to valuable resource water, Total Settable Solids must not exceed 0.5 ml/L/hr.
 - * Identified or described in 10 CSR 20, Chapter 7. These regulations are available at many libraries and may be purchased from MoDNR by calling the Water Pollution Control Program at (573)751-1300. The regulations are also available from the Missouri Secretary of State's Office.
- Disturbed Areas: Slopes for disturbed areas must be defined. A site map or maps, defining the sloped areas for all phases of the project, must be included in the SWPPP. Where soil disturbing activities cease in an area for 14 days or more, the contractor must construct BMPs to establish temporary stabilization. Temporary stabilization must consist of well established and maintained BMPs that are reasonably certain to protect waters of the state from sediment pollution. These BMPs may include a combination of sediment basins, check dams, sediment fences, and mulch. The types of BMPs used must be suited to the area disturbed, taking into account the number of acres exposed and the steepness of the slopes. If the slope of the area is greater than 3:1 (3 feet horizontal to 1 foot vertical) or if the slope is greater than 3% and greater than 150 feet in length, then the contractor must establish temporary stabilization within 7 days of ceasing operations on that part of the site. Delays in work caused by inclement weather or equipment malfunction are not considered "ceasing operations" for the purpose of this section, as long as work resumes as soon as possible.
- 3) <u>Installation</u>: The contractor must ensure the BMPs are properly installed at the locations and relative times specified. Peripheral or border BMPs to control runoff from disturbed areas must be installed or marked for

- preservation before general site clearing is started. Storm water discharges from disturbed areas, which leave the site, must pass through an appropriate BMP prior to leaving the land disturbance site. A drainage course change must be clearly marked on a site map and described. The location of all BMPs must be indicated on a site map.
- 4) <u>Sedimentation Basins</u>: Sedimentation basins are required for each drainage area with 10 or more acres disturbed at one time. The sedimentation basin must be sized to contain a volume of at least 3600 cubic feet per each disturbed acre draining into it. Accumulated sediment must be removed from the basin as needed to ensure the minimum volume of 3600 cubic feet is maintained. Discharges from the basin must not cause scouring of the banks or bottom of the receiving stream. The basin must be maintained until final stabilization of the disturbed area served by the basin.
 - a. Where use of a sediment basin of this size is impractical, the contractor must evaluate and specify other similarly effective BMPs to be employed to control erosion and sediment delivery. The BMPs must provide equivalent protection. The contractor must provide both temporary and permanent sedimentation basins to have a stabilized spillway to minimize the potential for erosion of the spillway or basin embankment.
- Dewatering: The contractor must provide a description of any anticipated dewatering methods, including the anticipated volume of water to be discharged and the anticipated maximum flow discharged from these dewatering activities, expressed in gallons per minute. Maximum flow may be stated in the SWPPP as an estimate based on the type and capacity of equipment being used for dewatering. The contractor must identify specific BMPs designed to treat water pumped from excavations, and in no case, will this water be pumped off site without being treated by the specified BMPs.

PART VI: ADDITIONAL REQUIREMENT AND CONTROLS

(To be understood and implemented by GENERAL CONTRACTOR)

- 1) The contractor must comply with all federal and state regulations regarding underground storage tanks, above ground storage tanks and dispensers of fueling facilities.
- 2) The contractor must manage hazardous wastes in accordance with the provisions of the Missouri Hazardous Waste Laws and Regulations. This includes hazardous wastes that are generated (by maintenance, cleaning, and repair activities), transported or stored on site.

3)	Materials Inventory: Check items stored outside on the site during construction:
	Pipe, Fittings, and joint compounds for utility piping
	☐ Gravel and stone bedding
	Concrete forming materials
	☐ Other (specify):

(Note: fuels, oils and other petroleum products, forming oils and compounds, fertilizers, pesticides, or any other hazardous or toxic compounds must be stored according to best management practices.)

- 4) Spill Prevention / Materials Management Practices
 - a. Petroleum Products: all vehicles kept on site will be monitored for leaks and should receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers, which are clearly labeled. Any asphalt substances used on site will be applied according to the manufacturer's recommendations.
 - Fueling and Servicing: No fueling, servicing, maintenance, or repair of equipment or machinery may be
 done within 50 feet of a stream, or within 100 feet of a classified stream, losing stream or sinkhole.
 Fueling activities must be in compliance with all federal and state regulations regarding underground
 storage, aboveground storage, and dispensers of fueling facilities.
 - c. Track Out: a stabilized construction exit has been designated on the site plan. Only designated exits can be used for exit from the site. Where sediment is present on roadways, all storm water curb inlets must have inlet protection. Where storm water will flow off the end of where a roadway terminates, a sediment catching BMP (ex. gravel bean, silt fence, etc.) must be provided. The General Contractor is responsible for keeping track out cleaned from adjoining streets on a daily basis, if needed.
 - d. Concrete Trucks: concrete trucks will be allowed to wash out only in locations (designated on the site map) where discharge is contained and marked with appropriate signage.

- e. Disposal of Hazardous Materials: No fuels, oils, lubricants, solvents, or other hazardous materials can be disposed of on this site. All hazardous materials must be properly disposed of, in accordance with Missouri State Law
- f. Solid Waste: The General Contractor is responsible for disposing of all solid waste from the site in accordance with Missouri State Law. Dumpsters or other collection facilities must be provided as needed.
- g. Solid waste may not be buried on site.
- h. Sanitary Waste: The General Contractor is responsible for providing sanitary facilities on the site. Sanitary waste may be disposed only in locations having a Missouri State permit.
- i. Other Discharges: Water for pressure testing sanitary sewers, flushing water lines, etc. may be discharged only in approved areas.

5) Air Emissions:

a. Dust Control: The General Contractor is required to control fugitive emissions from the site. Dust can be minimized by stabilizing areas with BMPs as soon as possible. Watering must be provided in unstabilized areas. Fugitive dust emissions are regulated by the Kansas City Health Department, Air Quality Program. Call (816) 513-6314 for guidance.

6) Hazardous Products:

a. The contractor must store all paint, solvents, petroleum products and petroleum waste products, and storage containers (such as drums, cans, or cartons) according to best management practices (BMPs). The materials exposed to precipitation must be stored in watertight, structurally sound, closed containers.

7) Spill Controls:

- a. The contractor's individual responsible for environmental matters will be the spill prevention and cleanup coordinator. The contractor must notify the City's designated individual responsible for environmental matters immediately of all spills that takes place during the construction project.
- b. Manufacturer's recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- c. Material and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials will include, but not be limited to: brooms, dust pans, mops, rags, gloves, kitty litter, san, sawdust, and plastic and metal trash containers (specifically for this purpose).
- d. All spills will be cleaned up immediately upon discovery.
- e. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- f. The spill prevention procedures will include measures to prevent spills from re-occurring and how to clean up the spill if there is another one.

- 8) Additional Good Housekeeping Practices:
 - a. An effort will be made to store only enough products to do the job.
 - b. All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
 - c. Whenever possible, all of a product will be used up before disposing of the containers in accordance with Missouri State Law.
 - d. Manufacturer's recommendations for proper use and disposal will be followed.
 - e. All paint containers will be tightly sealed and stored when not required for use. Excess paint will not be dumped into the storm sewer system, but will be properly disposed of in accordance with Missouri State Law.

NOTICE: Failure to implement and maintain the SWPPP, modified SWPPP, associated BMPs, and site in compliance with State and Federal Law subjects you to liability as outlined in your contract.

PART VII: CERTIFICATION

(To be completed by ALL PARTIES)

Design Professional's Declaration:

I hereby declare that the site plan, location map, and information contained in Part II of this SWPPP has been prepared under my direction or supervision in accordance with the City of Kansas City, Missouri Ordinances, and applicable State and Federal Laws and Regulations, and that the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Design Professional:		
By:	Title:	
	Date:	
City's Review:		
_	ce with the requirements contained in the City's Missouri State Oper o commencement of land disturbance activities.	ating
Owner:		
By:	Title:	
	Date:	
	ual responsible for environmental matters who has primary responsibilit Pollution Prevention Plan (SWPPP) during construction.	ty foi
Phone:		
Email:	G 11 71	
How will they be notified when a rain event	causes runoff from the site:	

General Contractor's Certification:

I hereby certify that I understand the requirements stated in this plan. That I am responsible for completing the requirements set forth in this SWPPP, including any modification to the SWPPP after commitment of land disturbance activities as shown on the site plan, and that I am responsible for the performance of my Individual Responsible for Environmental Matters and any subcontractors at the site.

General Contractor:	
Ву:	Title:
	Date:
Subcontractors Certification:	
· · · · · · · · · · · · · · · · · · ·	the requirements stated in this SWPPP, that I am responsible for completing the d in the plan as being a part of my scope of work.
Subcontractor:	
Ву:	Title:
	Date:
Subcontractor:	
Ву:	
	Date:
Subcontractor:	
Ву:	Title:
	Date:
Subcontractor:	
Ву:	Title:
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Ву:	Title:
	Date:
Subcontractor:	
Ву:	Title:
	Date:

PART VIII: SITE INSPECTION REPORTS

(To be completed by GENERAL CONTRACTOR)

Site Inspections Reports: Regularly scheduled inspections must be at a minimum once per seven calendar days. These inspections must be conducted by the person responsible for environmental matters at the site, or a person trained by and directly supervised by the person responsible for environmental matters at the site. For disturbed areas that have not been finally stabilized, all installed BMPs and other pollution control measures must be inspected for proper installation, operation and maintenance. All storm water outfalls must be inspected for evidence of erosion or sediment deposition. The receiving stream must also be inspected for 50 feet downstream of the outfall. Any problems must be noted in an inspection report and corrected within seven calendar days of the inspection. If a rainfall causes storm water runoff to occur on site, the BMPs must be inspected within a reasonable time period (not to exceed 48 hours). If weather conditions make it impossible to correct the problem within seven days, a detailed report of the problem (including pictures), must be filed with the regular inspection reports. The contractor must correct BMP malfunctions as soon as weather conditions allow. Parts of the site that have been finally stabilized may be inspected once per month. A log of each inspection must be kept. The inspection report is to include the following minimum information: inspector's name, date of inspection, observations relative to the effectiveness of the BMPs, actions taken or necessary to correct problems, and listing of areas where land disturbance operations have permanently or temporarily stopped. The inspection report must be signed by the person responsible for environmental matters or by the person performing the inspection, if duly authorized to do so.

Include copies of all site inspection reports at the end of the SWPPP document: Appendix D (See sample Inspection Report)

REMINDERS

- 1) The SWPPP must remain on-site until the site has been closed out.
- 2) A copy of the permit needs to be attached to the SWPPP (See Appendix C).
- Any update or modification to reflect change at the site effecting discharge, or where inspections identify SWPPP/BMPs as ineffective, needs to be attached to the SWPPP (See Appendix E).
- 4) Any additional federal, state, or local permits need to be attached to the SWPPP (See Appendix F).
- 5) The SWPPP, as well as all supporting documentation (permits, inspection reports, and addendums to the SWPPP, location maps, and site plan), must be retained for three (3) years.
- 6) SWPPPs are dynamic documents, which can be changed during the construction process. The goal of a SWPPP is to keep sediment on project sites and assure water quality standards. If BMPs or procedures are not attaining this goal, then the SWPPP should be changed or updated in order to better address specific conditions.
- 7) Total Settleable Solids from a storm water outfall exceeding 2.5 mg/L/hr (or 0.5 mg/L/hr if discharged to valuable resource water) may allow MoDNR to determine a violation of the Water Quality Standards may occur or has occurred.
- 8) The contractor must post a copy of the public notification sign, including the permit number, on the information board at the main entrance to the site. The public notification sign must remain posted at the site until the site has been finally stabilized.

PART IX: SWPPP APPENDICES

Appendix A – General Location Map

Appendix B – Site Maps

Appendix C – City's Land Disturbance Permit

Appendix D – Inspection Reports

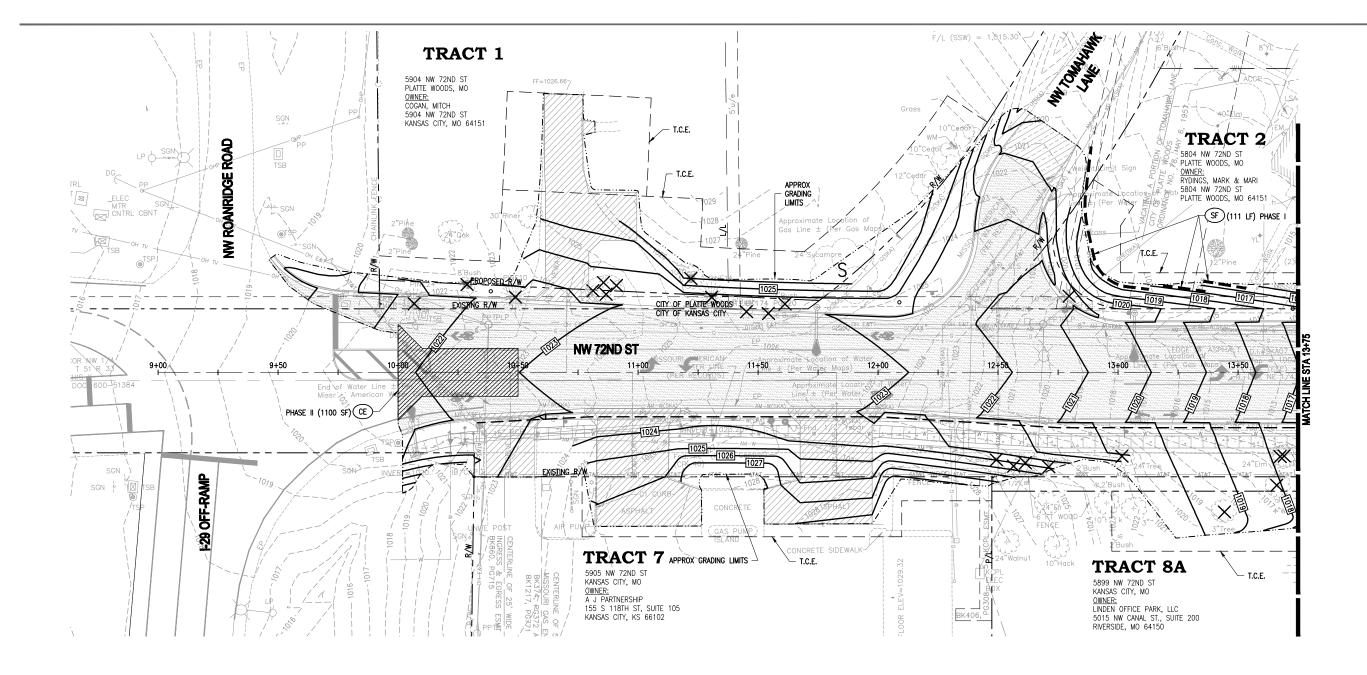
Appendix E – SWPPP Update and Modification Log

Appendix F - Additional Information

Appendix A – General Location Map



Appendix B – Site Maps



- EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. INSTALL ADDITIONAL DEVICES AS REQUIRED AND AS CONSTRUCTION OPERATIONS PROCEED.
- 2. COORDINATE DEVICES SHOWN WITH THE PROJECT'S
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 CONTRACTOR IS RESPONSIBLE FOR MEETING ALL
 APPLICABLE FEDERAL STATE, AND CITY
 REGULATIONS PERTAINING TO EROSION CONTROL.

EROSION CONTROL PHASING

PHASING I (PRIOR TO CLEARING OPERATIONS)

- INSTALL SILT FENCE(S) (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT
- INSTALL TEMPORARY SEDIMENT BASINS (SEE SHEET 85)
 INSTALL INLET PROTECTION AT EXISTING STORM SEWER INLET STRUCTURES
 BEGIN CLEARING AND GRUBBING
- BEGIN GRADING

- PHASING III (UTILITY AND ROADWAY IMPROVEMENTS)

 INSTALL UTILITIES, STORM SEWERS, CURBS, AND PAVING

 INSTALL INLET PROTECTION FOR NEW STORM SEWER INLETS AS WORK PROGRESSES

 INSTALL OUTLET PROTECTION AT STORM SEWER OUTFALLS

- PHASE IV (FINAL GRADING)

 PERMANENTLY STABILIZED ALL DISTURBED AREAS AS THEY ARE BROUGHT TO FINAL
- REMOVE TEMPORARY EROSION CONTROL SYSTEMS ONCE UPSTREAM AREA IS A MINIMUM OF 70% STABILIZATION WITH PERMANENT VEGETATION.

EROSION CONTROL LEGEND

(CIP)

AIP

(JBP)

- SILT FENCE (APWA STD DWG NO ESC-03)

- CURB INLET PROTECTION (APWA STD DWG NO ESC-06)

> - AREA INLET PROTECTION (APWA STD DWG ESC-07) - JUNCTION BOX PROTECTION (APWA STD DWG ESC-07)

(CE) - CONSTRUCTION ENTRANCE (APWA STD DWG ESC-01)

(RCD) - ROCK CHECK DAM (APWA STD DWG ESC-10) (DB) ----- DIVERSION BERM (APWA STD DWG ESC-05)

- GUTTER ELEVATION ∕XXX.XX G XXX.XX ME - MATCH EXISTING ELEVATION ✓ XXX.XX TW - TOP OF WALL ELEVATION XXX.XX BW - BOTTOM OF WALL ELEVATION -XXX.XX HP - PROPOSED CONTOUR $-\overline{\mathsf{x}\mathsf{x}\mathsf{x}}$ - EXISTING CONTOUR - DRAINAGE PATH

XXX.XX TC - TOP OF CURB ELEVATION

- SPOT ELEVATION

- LIP OF CURB ELEVATION

GRADING LEGEND

×XXXXX

XXX.XX LP

- TREE TO BE SAVED (PROTECT AS NECESSARY)

SCALE: 1'

- TREE AND/OR SHRUB TO BE REMOVED

WALTER P MOORE

PHONE: 818.701.2100 FAX: 816.701.2201

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT # STP-3451(401) NW 72ND STREET **IMPROVEMENTS**

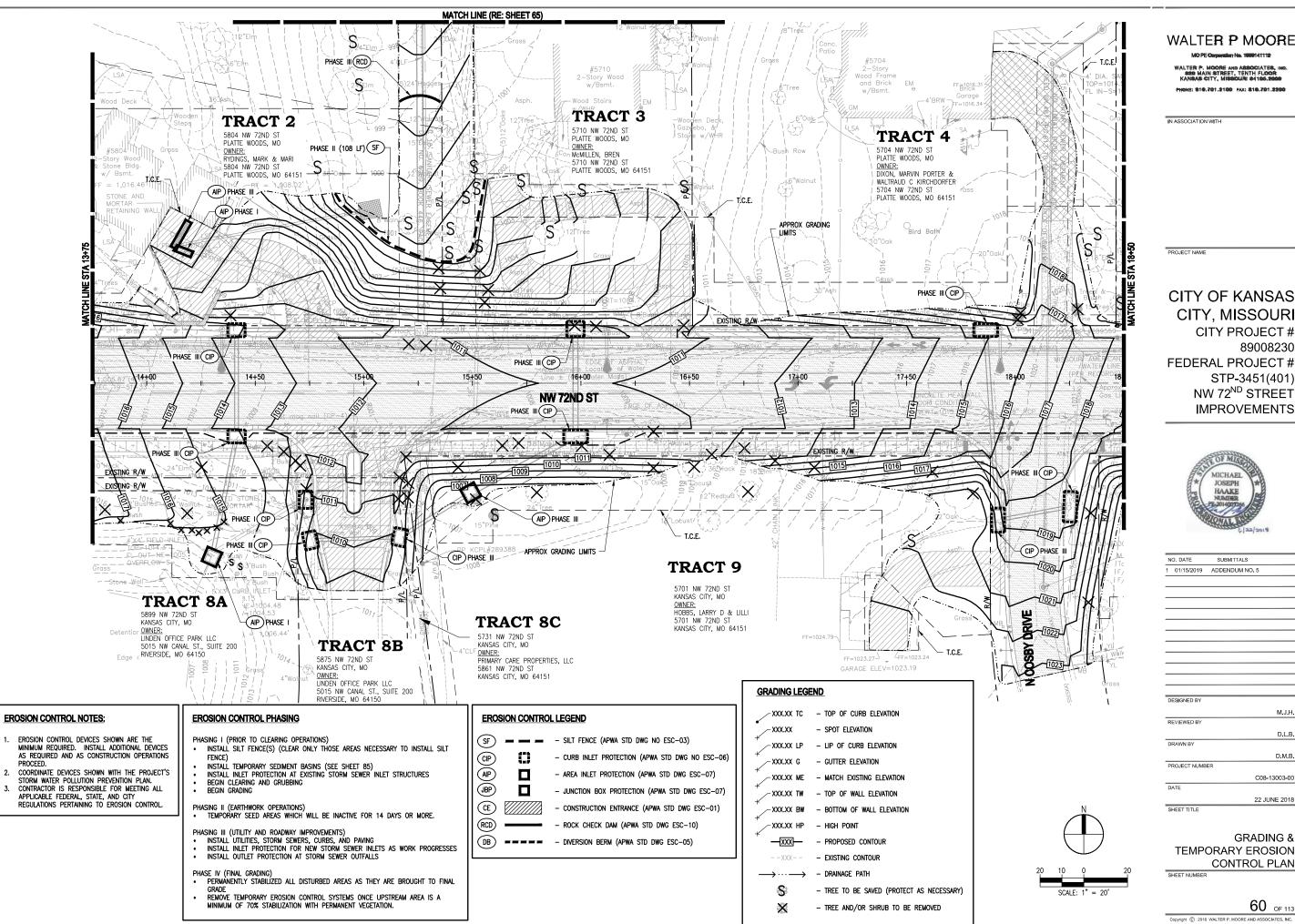


SUBMITTALS

NO. DATE

1 01/15/2019 ADDENDUM NO. 5 M.J.H. REVIEWED BY D.L.B. DRAWN BY D.M.B. PROJECT NUMBER C08-13003-00 DATE 22 JUNE 2018

GRADING & TEMPORARY EROSION CONTROL PLAN



WALTER P MOORE

PHONE: 818.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

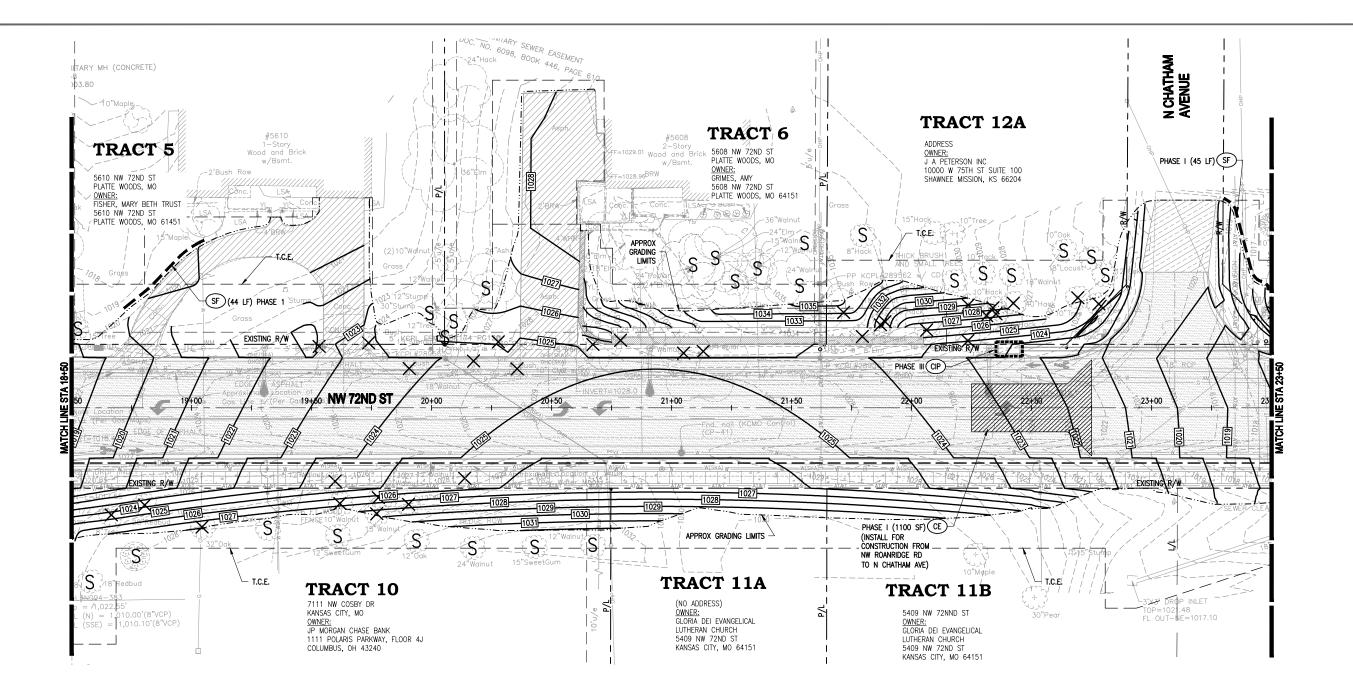
CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT# STP-3451(401) NW 72ND STREET **IMPROVEMENTS**



SUBMITTALS

M.J.H. REVIEWED B D.L.B. DRAWN BY D.M.B. PROJECT NUMBER C08-13003-00 DATE 22 JUNE 2018

GRADING & TEMPORARY EROSION CONTROL PLAN



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EROSION CONTROL PHASING

PHASING I (PRIOR TO CLEARING OPERATIONS)

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- INSTALL TEMPORARY SEDIMENT BASINS (SEE SHEET 85)
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 BEGIN CLEARING AND GRUBBING
- BEGIN GRADING

PHASING II (EARTHWORK OPERATIONS)

• TEMPORARY SEED AREAS WHICH WILL BE INACTIVE FOR 14 DAYS OR MORE.

- PHASING III (UTILITY AND ROADWAY IMPROVEMENTS)

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EROSION CONTROL LEGEND

- SILT FENCE (APWA STD DWG NO ESC-03)

CIP AIP - CURB INLET PROTECTION (APWA STD DWG NO ESC-06) - AREA INLET PROTECTION (APWA STD DWG ESC-07)

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(CE) - CONSTRUCTION ENTRANCE (APWA STD DWG ESC-01) (RCD) - ROCK CHECK DAM (APWA STD DWG ESC-10)

(DB) - DIVERSION BERM (APWA STD DWG ESC-05)

GRADING LEGEND

XXX.XX TC - TOP OF CURB ELEVATION

~XXX.XX - SPOT ELEVATION

- LIP OF CURB ELEVATION ∠XXX.XX LP

- GUTTER ELEVATION ∕XXX.XX G

XXX.XX ME - MATCH EXISTING ELEVATION

XXX.XX TW - TOP OF WALL ELEVATION

∠XXX.XX BW - BOTTOM OF WALL ELEVATION

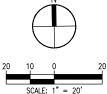
XXX.XX HP - HIGH POINT

- PROPOSED CONTOUR

- EXISTING CONTOUR

- DRAINAGE PATH 8 - TREE TO BE SAVED (PROTECT AS NECESSARY)

× - TREE AND/OR SHRUB TO BE REMOVED



WALTER P MOORE

PHONE: 818.701.2100 FAX: 816.701.2201

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT# STP-3451(401) NW 72ND STREET **IMPROVEMENTS**

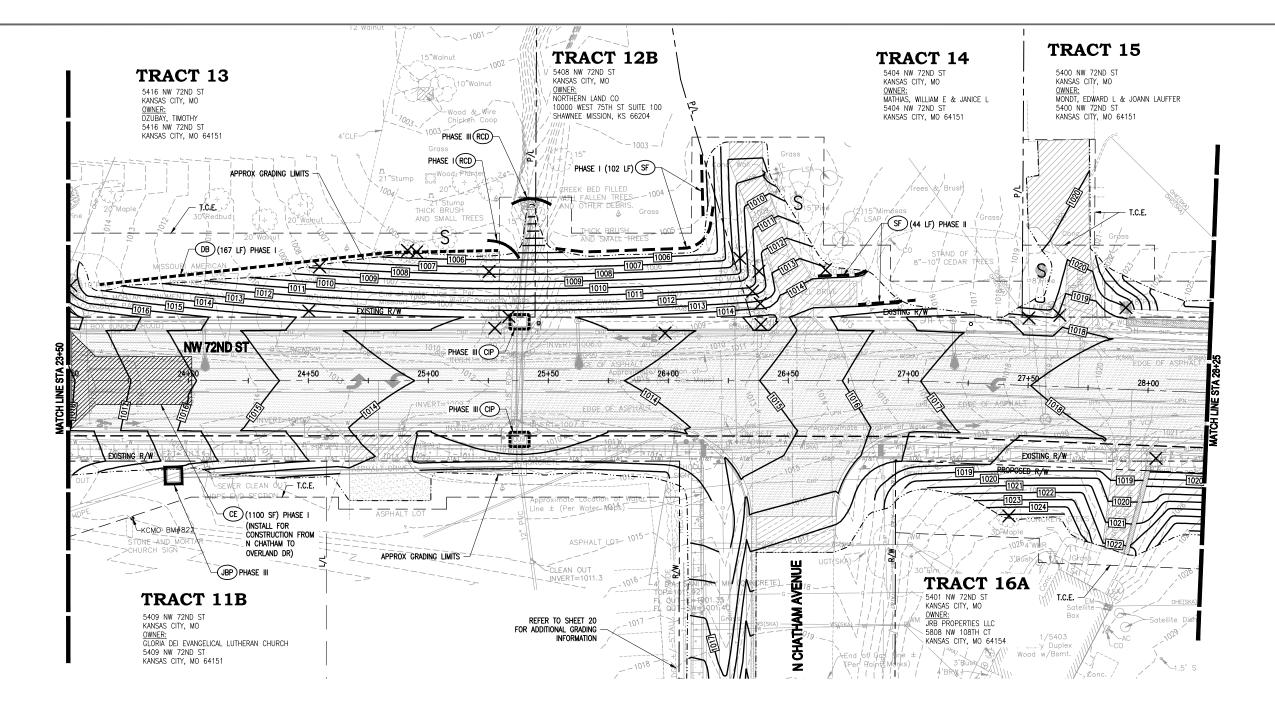


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EROSION CONTROL LEGEND

CIP

(RCD)

(DB)

(SF) - SILT FENCE (APWA STD DWG NO ESC-03)

- CURB INLET PROTECTION (APWA STD DWG NO ESC-06)

(AIP) - AREA INLET PROTECTION (APWA STD DWG ESC-07) (JBP) - JUNCTION BOX PROTECTION (APWA STD DWG ESC-07)

(CE) - CONSTRUCTION ENTRANCE (APWA STD DWG ESC-01)

- ROCK CHECK DAM (APWA STD DWG ESC-10)

---- - DIVERSION BERM (APWA STD DWG ESC-05)

GRADING LEGEND

XXX.XX TC - TOP OF CURB ELEVATION

~XXX.XX - SPOT ELEVATION

- LIP OF CURB ELEVATION XXX.XX LP

- GUTTER ELEVATION XXX.XX G

XXX.XX ME - MATCH EXISTING ELEVATION XXX.XX TW - TOP OF WALL ELEVATION

XXX.XX BW - BOTTOM OF WALL ELEVATION

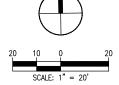
XXX.XX HP

- PROPOSED CONTOUR

- EXISTING CONTOUR

- DRAINAGE PATH 8 - TREE TO BE SAVED (PROTECT AS NECESSARY)

× - TREE AND/OR SHRUB TO BE REMOVED



WALTER P MOORE

PHONE: 818.701,2100 FAX: 816.701,2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT # STP-3451(401) NW 72ND STREET **IMPROVEMENTS**

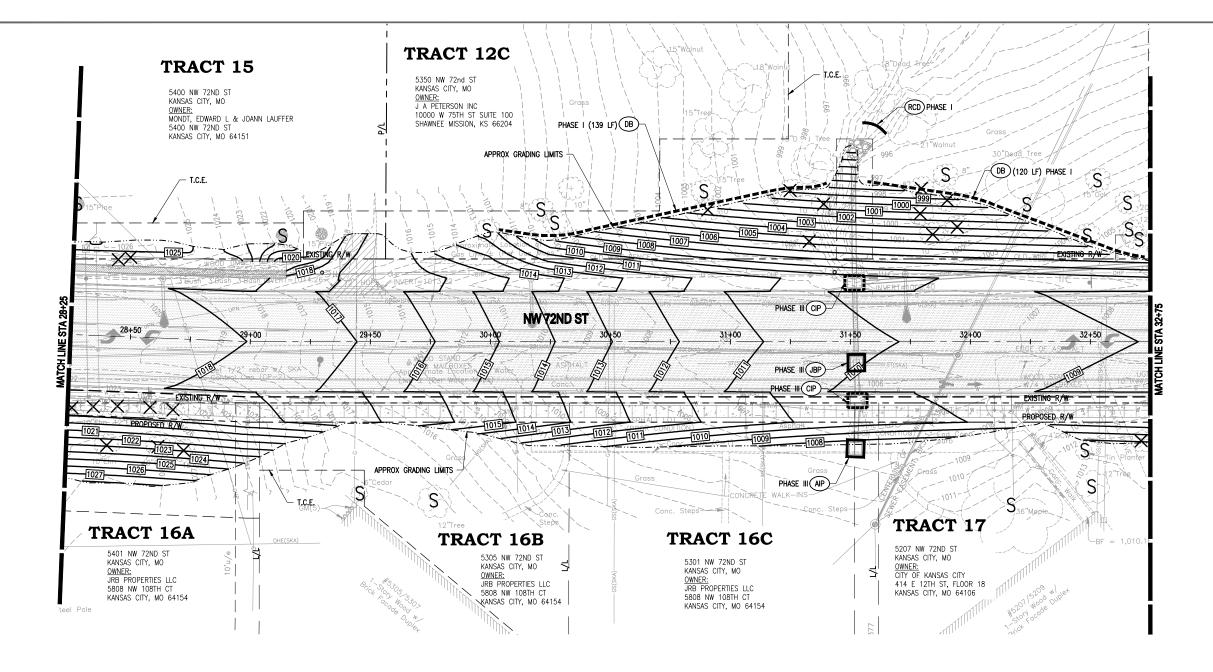


SUBMITTALS

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GRADING & TEMPORARY EROSION CONTROL PLAN



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GRADING LEGEND

XXX.XX TC - TOP OF CURB ELEVATION

∠XXX.XX - SPOT ELEVATION

- LIP OF CURB ELEVATION ∠XXX.XX LP

XXX.XX G - GUTTER ELEVATION XXX.XX ME - MATCH EXISTING ELEVATION

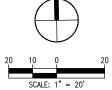
XXX.XX TW - TOP OF WALL ELEVATION

XXX.XX BW - BOTTOM OF WALL ELEVATION XXX.XX HP

- PROPOSED CONTOUR - EXISTING CONTOUR

- DRAINAGE PATH 8 - TREE TO BE SAVED (PROTECT AS NECESSARY)

× - TREE AND/OR SHRUB TO BE REMOVED



WALTER P MOORE

WALTER P. MOORE AND ASSOCIATES, IN SEE MAIN STREET, TENTH FLOOR KANSAS CITY, MISSOURI 54195.2008 PHONE: 818.781,2180 FAX: 816.781,2286

IN ASSOCIATION WITH

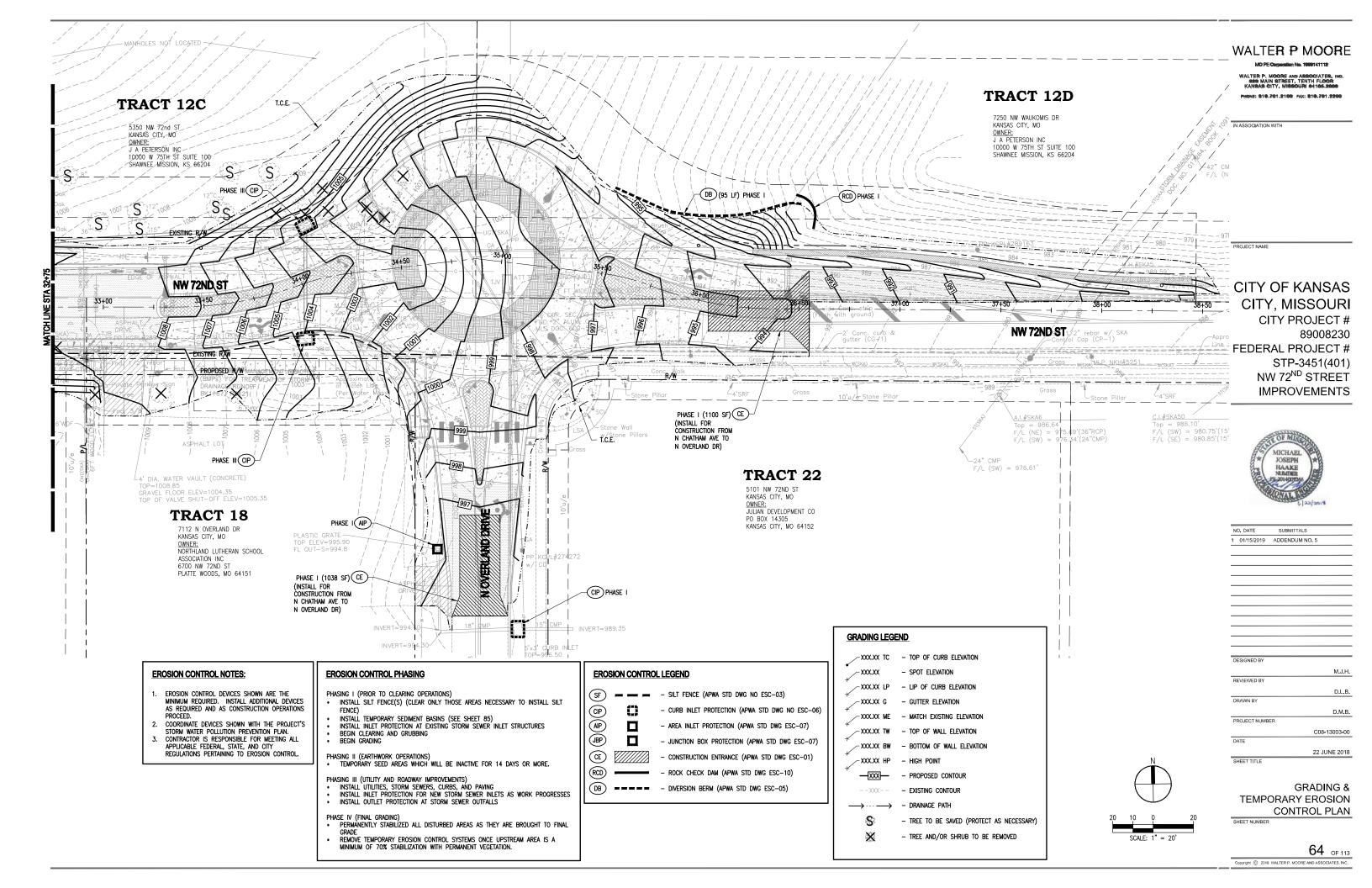
PROJECT NAME

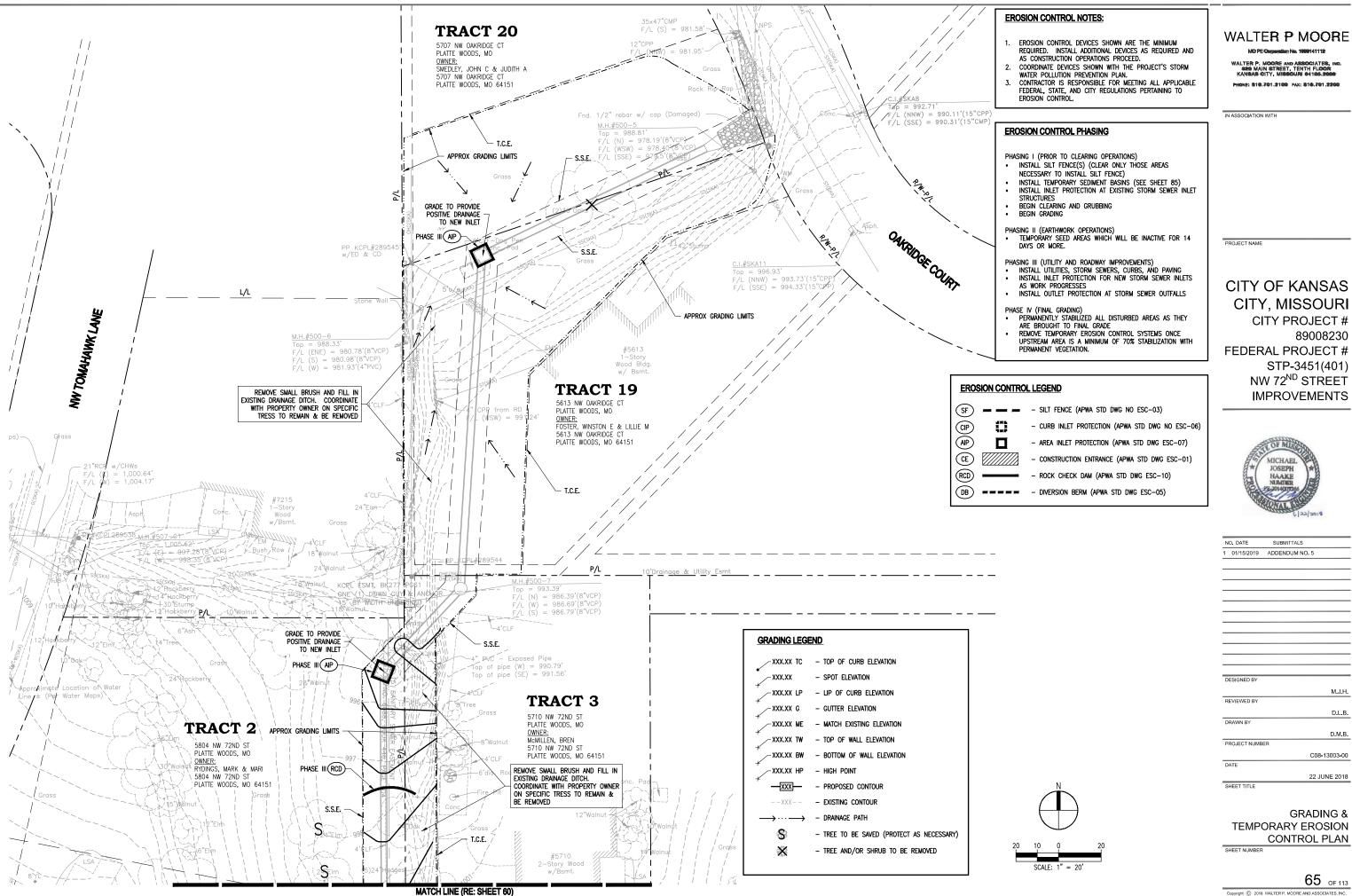
CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT # STP-3451(401) NW 72ND STREET **IMPROVEMENTS**



	D. DATE	SUBMITTALS	
1	01/15/2019	ADDENDUM NO. 5	
DE	SIGNED BY		
			M.J.H
RI	VIEWED BY		
			D.L.B
DI	RAWN BY		
			D.M.B
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		22 JUN	E 2018
SI	HEET TITLE		

GRADING & TEMPORARY EROSION CONTROL PLAN





65 OF 113

M.J.H.

D.L.B.

D.M.B.

C08-13003-00

22 JUNE 2018

GRADING &

CONTROL PLAN

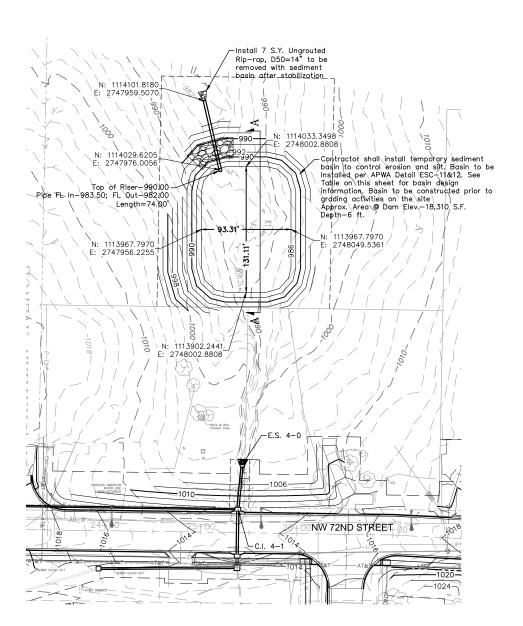
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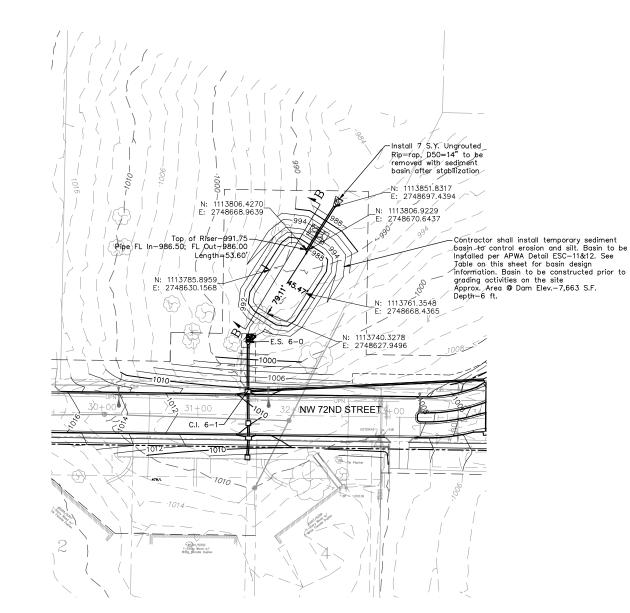
STP-3451(401)

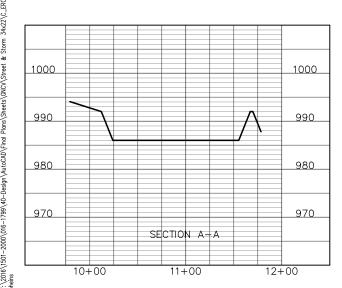
MICHAEL JOSEPH

SUBMITTALS

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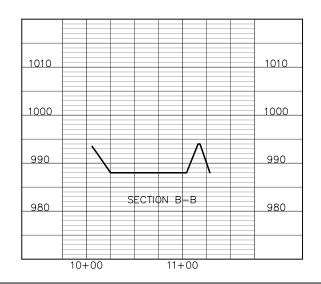






Design Item	Quantity	Units
Site Data		
Tributary Drainage Area To Pond	14.07	Acres
50% (2 YR) Design Flow	26.69	cfs
4% (25 YR) Design Flow	47.43	cfs
Pond Data		
Minimizai Storage Volome	1886	00.70
Frevided Storage Volume	2026 20	eu ye
Bollom Elevation	985.00	ft
Sediment Cleanout Elevation	989 02	î)
Top of Reser Elevation	990,00	0
Emergency Spillway Elevation	991 00	P.
Top of Dam Elevation	992.00	ft
Pencipal Spiliway	Data	
Riser Pipe DIA	45	ip
Залеі ^р -ре Di∧	VI	
Concrete Base Size for Riser Pipe	2.42	gavd
Skimmer Size	-1	
Emergency Spillwa	y Dasa	
Design Cepth in Spolway	558	l)
Design Velocity in Spillway	3:05	0/400
Spillway Width	40	R





	ign Summary	
Design Item	Quantity	Units
Site Data		
Tributary Drainage Area To Basin	4.8	Acres
50% (2 YR) Design Flow	9.11	cfs
4% (25 YR) Design Flow	16.19	cfs
Pond Data		
Minimum Storage Volume	644	Culyd
Provided Storage Volume	702	cu yd
Betlom Elevation	988 00	fl.
Sediment Cleanout Elevation	990, 10	ft
Top of Riser Elevation	991.75	fi
Emergency Spillway Elevation	992.75	11.
Top of Dan: Elevation	994,00	ſl
Principal Splilway	Çata	
Riser Pape DIA	21	li?
Валеі Ріре Оі∧	78	67
Concrete Basic Size for Riser Proe	1 53	ou yd
Emergency Spirlwa	y Data	
Design Depth in Spillway	0.45	ft
Oesign Velocity in Sp/Eway	1.81	8/9 ec
Spillway Width	26	<u>r</u>

WALTER P MOORE

MO PE Corporation No. 199

WALTER P. MOORE AND ASSOCIATES, INC 920 MAIN STREET, TENTH FLOOR KANSAS CITY, MISSOURI \$4105.2006 PHONE: \$18.701.2100 FAX: \$18.701.2200

IN ASSOCIATION WIT



PROJECT NAME

CITY OF KANSAS
CITY, MISSOURI
CITY PROJECT #
89008230
FEDERAL PROJECT #
STP-3451(401)
NW 72ND STREET
IMPROVEMENTS



SUBMITTALS

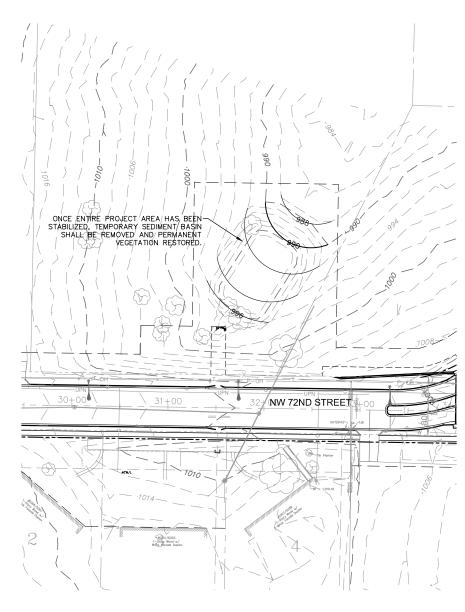
DESIGNED BY	
	S.
REVIEWED BY	
	B.V
DRAWN BY	5.1
	S.
PROJECT NUMBER	3.
T NOOLOT NOMBLIN	
	C08-13003
DATE	
	22 JUNE 2
SHEET TITLE	

SEDIMENT BASIN PLAN

IEET NUMBER

85 OF 113

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GENERAL NOTES:

SEED & MULCH NOTES:
SEEDING SHALL BE DONE BEFORE THE PROPOSED SEEDBED BECOMES ERODED, CRUSTED OVER,OR
DRIED OUT AND SHALL NOT BE DONE WHEN THE GROUND IS FROZEN, OR COVERED WITH SNOW. THE
SEED SHALL COMPLY WITH THE REQUIREMENTS OF THE MISSOURI SEED LAW AND THE FEDERAL SEED
ACT. ALSO, IT SHALL CONTAIN NO SEED OF ANY PLANT ON THE FEDERAL NOXIOUS WEED LIST.
OTHER WEED SEED SHALL NOT EXCEED ONE PERCENT BY WEIGHT OF MIX.

SEED & FERTILIZER RATE: SEED & FER IIIJZER KAIE:

MIX I - RYE GRASS / BLUE GRASS ----100 LBS. PER. ACRE

MIX II - TALL FESCUE / BLUE GRASS ----195 LBS. PER ACRE

LIME ------2000 LBS. PER ACRE (50 LBS. PER 1000 SQ. FT.)

FERTILIZER ------800 TO 1200 LBS. PER ACRE (25 LBS. PER 1000 SQ.

DURING THE DATES DECEMBER 15TH THROUGH MAY 31 ALL LIME, FERTILIZER, SEED, AND MULCH SHALL BE APPLIED TO FINISHED SLOPES OF DISTURBED AREAS. DURING THE MONTHS OF JUNE, JULY, OCTOBER, AND NOVEMBER 1ST THROUGH DECEMBER 15TH, LIME, FERTILIZER, SEED, AND MULCH SHALL BE APPLIED AT THE FOLLOWING RATES:

LIME - 100 % OF SPECIFIED QUANTITY
FERTILIZER - 75 % OF THE SPECIFIED QUANTITY
SEED - 50 % OF THE SPECIFIED QUANTITY
MULCH - 100 % OF THE SPECIFIED QUANTITY
MULCH SHALL BE VEGETATIVE TYPE, CEREAL STRAW FROM STALKS OF OATS, RYE, OR BARLEY, OR APPROVED EQUAL. THE STRAW SHALL BE FREE OF PROHIBITED WEED SEED AND RELATIVELY FREE OF ALL OTHER NOXIOUS AND UNDESIRABLE SEED. MULCH SHALL BE APPLIED AT THE RATE OF 2
TONS PER ACRE, (70 TO 90 LBS. PER 1000 SQ. FT.), MULCH SHALL BE REDEDED BY A MULCH ANCHORING TOOL OR DISK TYPE ROLLER HAVING FLAT SERRATED DISKS SPACED NOT MORE THAN 10 INCHES APART AND CLEANING SCRAPERS SHALL BE PROVIDED.

WALTER P MOORE

PHONE: 818.701.2100 FAX: 818.701.220



PROJECT NAME

CITY OF KANSAS CITY, MISSOURI CITY PROJECT # 89008230 FEDERAL PROJECT # STP-3451(401) NW 72ND STREET **IMPROVEMENTS**



NO. DATE	SUBMITTALS	
DESIGNED BY		
		S.M.S
REVIEWED BY		
		B.W.H
DRAWN BY		
		S.M.S
PROJECT NUMBER		
		C08-13003-00
DATE		
		22 JUNE 2018
SHEET TITLE		

POST-CONSTRUCTION **GRADING PLAN**

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0130516

Owner: City of Kansas City

Address: 414 East 12th Street, Kansas City, MO 64106

Continuing Authority: Kansas City Water Services Department

Address: 4800 East 63rd Street, Kansas City, MO 64130

Facility Name: Kansas City Water Services Department

Facility Address: 4800 East 63rd Street, Kansas City, MO 64130

Legal Description: See Pages 2 - 4
UTM Coordinates: See Pages 2 - 4

Receiving Stream:

First Classified Stream and ID:

USGS Basin & Sub-watershed No.:

See Pages 2 - 4

See Pages 2 - 4

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

The city of Kansas City is the largest city in the State of Missouri and has a population of 459,787 according to the 2010 U.S. Census; with an approximate area of 319.03 mi², and a population density of 1,441 population/mi². The permittee owns and operates their Phase I Large (based on the 1990 U.S. Census) Municipal Separate Storm Sewer System (MS4). The MS4 is comprised of man-made engineered components that are designed or developed to reduce stormwater pollution runoff to the Maximum Extent Practicable within the permittee's jurisdiction.

This permit authorizes only stormwater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 621.250 RSMo, Section 640.013 RSMo and Section 644.051.6 of the Law.

September 1, 2018 Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

August 31, 2023

Expiration Date

Chris Wieberg, Director, Water Projection Program

FACILITY DESCRIPTION (continued):

The following is a listing of representative major stormwater outfalls with the stormwater outfall's majority land use designation that discharge stormwater from the permittee's MS4 to waters of the state and diameter/width (inches) size of the discharging structure. For UTM Coordinates, X = easting coordinates and Y = northing coordinates, within Zone 15. This NPDES permit covers all discharges from the permittee's outfalls for both major and non-major outfalls, unless regulated under a separate NPDES permit.

OUTFALL 001 - Drainage area consist primarily of airport and associated structures, and has a 36" wide discharge structure.

Legal Description

Sec. 16, T52N, R34W, Platte County

UTM Coordinates:

X = 351385.23, Y = 4353630.55

Receiving Stream:

Tributary to Prairie Creek

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

102400120902

OUTFALL 002 - Drainage area consist primarily of airport and associated structures, and has a 144" wide discharge structure.

Legal Description

Sec. 22, T52N, R34W, Platte County

UTM Coordinates:

X = 353252.97, Y = 4352514.39

Receiving Stream:

Todd Creek (C)

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

102400120710

OUTFALL 003 - Drainage area consist primarily of residential and associated structures, and has a 78" wide discharge structure.

Legal Description

Sec. 31, T52N, R33W, Platte County

UTM Coordinates:

X = 357560.83, Y = 43448337.45

Receiving Stream:

Tributary to Second Creek

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

102400120709

OUTFALL 004 - Drainage area consist primarily of residential and associated structures with a 36" wide discharge structure.

Legal Description

Sec. 23, T52N, R33W, Clay County

UTM Coordinates:

X = 364711.65, Y = 4351882.18

Receiving Stream:

Tributary to Rocky Branch

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

102400120708

OUTFALL 005 - Drainage area consist primarily of residential and agricultural entities, and has a 42" wide discharge structure.

Legal Description

Sec. 23, T52N, R32W, Clay County X = 373511.09, Y = 4351079.57

UTM Coordinates:

Fishing River (C)

Receiving Stream:

8-20-13 MUDD V1.0 (C) (3960)

First Classified Stream and ID: USGS Basin & Sub-watershed:

103001010404

TMDL Watershed

OUTFALL 006 - Drainage area consist primarily of residential and associated structures, and has a 48" wide discharge structure.

Legal Description

Sec. 15, T51N, R32W, Clay County X = 372653.33, Y = 4343356.26

UTM Coordinates:

Tributary to Little Shoal Creek

Receiving Stream: First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010303

OUTFALL 007 - Drainage area consist primarily of residential and associated structures, and has a 48" wide discharge structure.

Legal Description

Sec. 12, T51N, R33W, Clay County

UTM Coordinates: Receiving Stream: X = 364974.43, Y = 4344566.95Tributary to Shoal Creek

First Classified Stream and ID:

Shoal Creek (C) (397.00)

USGS Basin & Sub-watershed:

103001010302

OUTFALL 008 - Drainage area consist primarily of commercial entities, and has a 54" wide discharge structure.

Legal Description

Sec. 7, T51N, R33W, Platte County

UTM Coordinates:

X = 357840.31, Y = 4345295.23

Receiving Stream: First Classified Stream and ID: Tributary to Lake Waukomis 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

102400110607

OUTFALL 009 - Drainage area consist primarily of commercial entities, and has a 42" wide discharge structure.

Legal Description

Sec. 12, T51N, R34W, Platte County

UTM Coordinates:

X = 356204.78, Y = 4345883.06

Receiving Stream:

Tributary to Rush Creek

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

102400110605

OUTFALL 010 - Drainage area consist primarily of commercial entities, and has a 48" wide discharge structure.

Legal Description

Sec. 36, T52N, R34W, Platte County

UTM Coordinates:

X = 355343.42, Y = 4349293.49

Receiving Stream:

Tributary to Brush Creek

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

102400110603

OUTFALL 011 - Drainage area consist primarily of residential and associated structures, and has a 36" wide discharge structure.

Legal Description

Sec. 30, T51N, R33W, Platte County

UTM Coordinates:

X = 358224.31, Y = 4340855.71

Receiving Stream:

Tributary to Burlington Creek 8-20-13 MUDD V1.0 (C) (3960)

First Classified Stream and ID: USGS Basin & Sub-watershed:

102400110606

OUTFALL 012 - Drainage area consist primarily of commercial entities, and has a 36" wide discharge structure.

Legal Description

Sec. 7, T50N, R32W, Clay County X = 367714.21, Y = 4335269.87

UTM Coordinates: Receiving Stream:

Tributary to Buckeye Creek

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010301

OUTFALL 013 - Drainage area consist primarily of industrial entities, and has a 42" wide discharge structure.

Legal Description

Sec. 12, T50N, R32W, Clay County

UTM Coordinates:

X = 375396.53, Y = 4335732.91

Receiving Stream:

Tributary to Shoal Creek

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010304

OUTFALL 014 - Drainage area consist primarily of industrial entities, and has a 36" wide discharge structure.

Legal Description

Sec. 13, T50N, R32W, Clay County X = 374867.90, Y = 4333625.34

UTM Coordinates:

Tributary to Missouri River

Receiving Stream: First Classified Stream and ID:

Missouri River (P) (356) 303(d)

USGS Basin & Sub-watershed:

103001010305

OUTFALL 015 - Drainage area consist primarily of residential and associated structures, and has a 42" wide discharge structure.

Legal Description

Sec. 3, T50N, R33W, Clay County

UTM Coordinates:

X = 362771.98, Y = 4336660.78Tributary to Missouri River

Receiving Stream: First Classified Stream and ID:

Missouri River (P) (226) 303(d)

USGS Basin & Sub-watershed:

102400110608

OUTFALL 016 - Drainage area consist primarily of residential and associated structures, and has a 42" wide discharge structure.

Legal Description

Sec. 3, T48N, R32W, Jackson County

UTM Coordinates:

X = 375584.20, Y = 4318149.8

Receiving Stream:

Tributary to Little Blue River

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010204

OUTFALL 017 - Drainage area consist primarily of residential and associated structures, and has a 60" wide discharge structure.

Legal Description

Sec. 34, T49N, R32W, Jackson County

UTM Coordinates:

X = 376087.98, Y = 4319548.14

Receiving Stream:

Tributary to Glen Lake

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010206

OUTFALL 018 - Drainage area consist primarily of commercial entities, and has a 48" wide discharge structure.

Legal Description

Sec. 25, T48N, R33W, Jackson County

UTM Coordinates:

X = 369574.00, Y = 4312536.25

Receiving Stream:

X = 3695/4.00, Y = 4312536.25Tributary to Little Blue River

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010203

OUTFALL 019

Drainage area consist primarily of institutional entities, and has a 36" wide discharge structure.

Legal Description

Sec. 4, T47N, R33W, Jackson County

UTM Coordinates:

X = 364779.25, Y = 4310058.91

Receiving Stream:

Tributary to Terrace Lake

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010104

OUTFALL 020

Drainage area consist primarily of commercial entities, and has a 36" wide discharge structure.

Legal Description

Sec. 12, T47N, R33W, Jackson County

UTM Coordinates:

X = 368997.11, Y = 4308229.61

Receiving Stream:

Tributary to Longview Lake

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010202

OUTFALL 021

Drainage area consist primarily of commercial entities, and has a 48" wide discharge structure.

Legal Description

Sec. 30, T47N, R32W, Jackson County

UTM Coordinates:

X = 369682.47, Y = 4302479.21

Receiving Stream:

Tributary to Oil Creek

First Classified Stream and ID:

8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-watershed:

103001010201

A. COVERAGE, AUTHORIZATION AND RESTRICTIONS

- This National Pollution Discharge Elimination System (NPDES) permit authorizes stormwater discharge from the City of Kansas City's (permittee) designated Phase I Municipal Separate Storm Sewer System (MS4) from stormwater outfalls located in or originating within the permittee's corporate boundary and owned and operated by the permittee to waters of the state.
- 2. The following non-stormwater discharges are authorized by this permit provided they are not identified by either the permittee or the Missouri Department of Natural Resources (Department) as contributing significant amounts of pollutants to waters of the state. The permittee shall incorporate appropriate control measures in the Stormwater Management Program (SWMP) if any of the non-stormwater discharges listed below are identified as significant sources of pollutants.
 - Water line and fire hydrant flushing;
 - b. Landscape irrigation;
 - c. Rising ground water;
 - d. Uncontaminated ground water infiltration;
 - e. Uncontaminated pumped ground water;
 - f. Potable water sources;
 - g. Foundation drains;
 - h. Air conditioning condensate;
 - i. Springs;
 - Water from crawl space pumps;
 - k. Footing drains;
 - l. Lawn watering;
 - m. Flows from riparian habitats and wetlands;
 - n. Street wash water;
 - Emergency fire-fighting activities;
 - p. Individual residential car washing;
 - q. Dechlorinated residential swimming pools.
- 3. This permit does not authorize non-stormwater discharges except where such discharges are:
 - a. In compliance with a separate NPDES permit, or
 - b. Identified by and in compliance with Part A.2. of this permit.
- 4. This permit does not serve as coverage for facilities or activities that require a separate NPDES permit.
- 5. This permit does not affect, remove, or replace any requirement of the Endangered Species Act; the National Historic Preservation Act; the Comprehensive Environmental Response, Compensation and Liability Act; or the Resource Conservation and Recovery Act. Determination of applicability to the above mentioned acts is the responsibility of the permittee.
- 6. This permit does not transfer liability for a spill from the entity or entities responsible for the spill to the permittee or relieve the entity or entities responsible for a spill from applicable federal, state, or local requirements.

B. SPECIAL CONDITIONS

- The permittee shall implement control measures and other management practices to reduce pollutants in stormwater discharge to the Maximum Extent Practicable (MEP) from the MS4 to waters of the state for the goal of attainment with Missouri's water quality standards. Specific requirements are listed in Part D. – STORMWATER MANAGEMENT PROGRAM and Part E. – MINIMUM CONTROL MEASURES.
- 2. The permittee shall implement and enforce a comprehensive Stormwater Management Program (SWMP) per the requirements listed in this operating permit in accordance with the federal Clean Water Act (CWA) §402(p)(3)(B)(iii), appropriate federal regulations under 40 CFR 122.26, and with the Missouri Clean Water Law §644, RSMo, and its implementing regulations under 10 CSR 20-6.200.
- The permittee shall ensure they have adequate legal authority via established or subsequently established ordinance, contract(s), or other regulatory mechanisms consistent with federal and state regulations to provide full implementation of their SWMP per Part D. STORMWATER MANAGEMENT PROGRAM, and other terms and conditions of this operating permit.
- 4. The full implementation of this operating permit and the Department approved SWMP, which includes implementation of any applicable schedules developed by the permittee, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with §644.051.16, RSMo, and the CWA section 402(k). However, this permit may be reopened and modified, or alternatively revoked and reissued to:
 - a. Ensure corrective action(s) are being implemented to reduce the discharge of pollutants to the MEP if the Department determines that the permittee is causing or creating significant impacts on Missouri's Water Quality. If such action is determined appropriate by the Department, a notification will be given to the permittee at a minimum of 30 days prior to the action being conducted; and
 - b. Comply with any applicable effluent standard or limitation issued or approved under CWA sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2), if the effluent standard or limitation so issued or approved:
 - i. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - ii. Controls any pollutant not limited in the permit.
- 5. Integrated Planning: It is the intent of both the permittee and the Department that in the event the permittee utilizes Integrated Planning that this permit does not constrain the permittee's efforts to identify affordable and cost-effective solutions to address the most significant sources of pollution in the implementation of the permittee's Integrated Plan.

C. TOTAL MAXIMUM DAILY LOAD

- The permittee shall develop a Total Maximum Daily Load (TMDL) Assumptions and Requirements Attainment Plan
 (ARAP) if any area of the MS4 is identified in an EPA approved or established TMDL with an applicable Wasteload
 Allocation (WLA). The permittee shall implement steps toward attainment of applicable WLA in accordance with 40 CFR
 122.44(k)(2) and (3) as implemented through this permit. The TMDL ARAP shall be incorporated into the SWMP and
 include, at a minimum, the following:
 - a. A process to identify potential sources of the pollutant(s), actions to be taken to address those sources within the permittee's MS4 discharging to the waterbody of concern, a prioritization of those actions, and a schedule including beginning and ending milestones by permit year. The schedule for the implementation of the TMDL ARAP is not limited to the term of this operating permit (i.e., 5 years) as attainment can take years or even multiple permit terms;
 - b. Best Management Practices (BMPs) developed or designed with a purpose of reducing the pollutant(s) of concern. Each BMP shall contain a description of the BMP purpose and expected result of the BMP.
 - c. Measurable goals shall be established for each BMP or group of BMPs. Each measurable goal shall contain a statement clearly indicating how it will determine the appropriateness of identified BMPs and progress toward the expected results of the BMP. Measureable goals shall be quantifiable; however, if it is not feasible to utilize a measurable goal that is quantifiable, then the permittee shall provide justification why utilizing a measurable goal is infeasible. If applicable, measurable goals shall also utilize interim and completion milestone dates, and a periodic frequency of measurement to document progress. It is recommended that interim and final milestone dates are established with a format of month and year. If the format of month and year cannot be utilized, the permittee shall ensure that schedules have the minimum format of 1st, 2nd, 3rd, 4th, and 5th year of the operating permit.
 - d. An iterative process to be utilized by the permittee that determines if the BMP is ineffective, the plan to address ineffective BMPs, and the general process used to replace or revise ineffective BMPs.
- 2. If the permittee is subject Part C.1. of this permit, then the permittee shall draft and submit the TMDL ARAP to the Department as soon as practicable but no later than 30 months after the date EPA approves or establishes the TMDL or 30 months after the effective date of this operating permit, whichever is later. The initial TMDL ARAP is to be submitted to the

Department's Water Protection Program, MS4 Coordinator at P.O. Box 176, Jefferson City, MO 65102. All other revisions are to be included in the permittee's Annual Report.

- 3. If the Department approves the TMDL ARAP, it will be presumed that the TMDL ARAP is affordable by the permittee. However, if the Department disapproves the TMDL ARAP and requires any additional or different controls or expenses, the Department will conduct an affordability analysis in support of the disapproval unless waived by the permittee.
- 4. The deadline for the TMDL ARAP may be extended by request of the permittee and with written approval by the Department.
- 5. If the TMDL ARAP has been submitted to the Department but has not received approval, then the permittee is not required to implement any action listed in their TMDL ARAP and shall notify the Department of this in their Annual Report.
- 6. If the permittee has received Department approval, the permittee shall implement their TMDL ARAP in accordance to schedules established in the TMDL ARAP. Implementation of all TMDL ARAP control measures shall be documented and retained by the permittee with the permittee's SWMP, and made available to the Department or EPA upon request.
- 7. If the permittee has an approved TMDL ARAP, then the permittee shall provide a summary of the controls that list the BMPs, the expected result of the BMPs, how the measurable goals are utilized to document the effectiveness of the BMPs, and the status of the measurable goals in the permittee's Annual Report.
- 8. The permittee may demonstrate that no additional controls are needed beyond the successful implementation of the minimum control measures (MCMs) listed in Part E. MINIMUM CONTROL MEASURES of this permit, which includes modifications to BMPs or measurable goals, for the goal of attainment with the TMDL's assumptions and requirements. The demonstration is subject to Department approval. If the permittee is to provide a demonstration that no additional controls are needed, they shall contact the Water Protection Program's MS4 Coordinator to begin the process.
- The permittee may submit an Integrated Plan as an approach for the implementation of the TMDL's assumptions and requirements. Review and rating of the portion of an Integrated Plan specific to the TMDL's assumptions and requirements is subject to the same requirements as the TMDL ARAP.
- 10. The permittee may revise their approved TMDL ARAP, and if revised, the permittee shall provide written notification to the Department for substantive revisions. Substantive revisions are as follows:
 - a. Addition of new components, controls, or requirements to the TMDL ARAP;
 - Replacing or modifying ineffective or unfeasible BMPs or measurable goals in accordance to the permittee's iterative process;
 - c. Replacing or modifying time schedules;
 - d. Modifying the iterative process; and
 - e. Other rationales as determined appropriate by the permittee.
- 11. If the TMDL ARAP is revised in accordance with Part C.10. of this permit, then the Department shall review and rate the revised TMDL ARAP in accordance with Part C.3. of this permit.
- 12. Exemptions to Part C.:
 - a. If the EPA approved or established TMDL indicates that this permittee does not cause or contribute to the impairment addressed by the TMDL, then the permittee is not required to develop and implement any action contained in Part C. of this permit.
 - b. If the permittee is already subject to an existing TMDL and is under an existing agreement (e.g., Settlement Agreement, Abatement Order, etc.) with the Department to address the TMDL's assumption and requirements, then the permittee is not required to develop and implement any action contain in Part C. of this permit.
 - i. If such an agreement exists, then the permittee shall submit the status of implementation to the Department with the Annual Report.

D. STORMWATER MANAGEMENT PROGRAM

- The permittee shall implement and document the following terms and conditions in their Stormwater Management Program (SWMP) for each of the Minimum Control Measures located in Part E. – MINIMUM CONTROL MEASURES:
 - a. BMPs developed or designed with a purpose of reducing stormwater pollution. Each BMP shall contain a description of the BMP and the purpose or expected result of the BMP;
 - b. Measurable goals shall be established for each BMP or in conjunction of multiple BMPs. Each measurable goal shall contain a statement clearly indicating how it will be established to determine the appropriateness of identified BMPs and progress toward the expected results of the BMP. Measurable goals shall be quantifiable unless it is not feasible to

quantify. If the measurable goal is not to be quantifiable, then the permittee shall provide justification why it is not feasible to have a quantifiable measurable goal. If applicable, measurable goals shall also utilize interim and completion milestone dates, and a periodic frequency of measurement to document progress. It is recommended that interim and final milestone dates are established with a format of month and year. If the format of month and year cannot be utilized, the permittee shall ensure that schedules have the minimum format of 1st, 2nd, 3rd, 4th, and 5th year of the operating permit;

- c. The person(s) primarily responsible for the SWMP or for each minimum control measure;
- d. An iterative process to be utilized by the permittee that documents how each BMP is evaluated and subject to replacement or modification. The permittee shall apply reasonable further progress by replacing or modifying ineffective BMPs with effective BMPs.
- 2. The permittee's SWMP shall be reviewed and rated by the Department to ensure that the SWMP is implementing the terms and conditions of this permit, the applicable federal and state stormwater regulations, and Section §402(p)(3)(B)(iii) of the Clean Water Act. If the SWMP is approved by the Department, it will be presumed affordable by the permittee. If the SWMP is found unsatisfactory by the Department and requires any additional or different controls or expenses, the Department shall conduct an affordability analysis in support of the unsatisfactory rating unless waived by the permittee.
- 3. If the permittee determines that their existing SWMP needs to be updated to comply with the terms and conditions of this operating permit, then the permittee shall revise and submit their SWMP within one (1) year of the Effective Date of this permit. The Department shall then conduct a review and rating of the SWMP in accordance with Part D.2. of this permit.
- The permittee shall continue implementing their existing SWMP until the permittee's revised SWMP is approved by the Department.
- 5. The permittee may revise their SWMP during the life of this permit. All substantive revisions shall require written notification by the permittee to the Department's MS4 Program Coordinator as a stand-alone notification or included in the permittee's Annual Report. Substantive revisions are as follows:
 - Addition of new components, controls, or requirements to the SWMP;
 - Replacing or modifying ineffective or unfeasible BMPs or measurable goal in accordance to the permittee's iterative process;
 - c. Replacing or modifying time schedules;
 - Modifying the iterative process;
 - e. The addition or removal of jurisdictional areas;
 - f. Contact names per Part D.1.c. of this permit; and
 - g. Other rationales as determined appropriate by the permittee.
- If the SWMP is revised in accordance with Part D.5. of this permit, then the Department may review and rate the revised SWMP in accordance with Part D.2. of this permit.
- 7. The permittee shall implement the SWMP on all areas added to their jurisdiction as expeditiously as practicable, but no later than three (3) years from the addition of the new areas. If the implementation of the SWMP will not be completed within one (1) year, then the permittee is required to submit status reports with their MS4 Annual Report.

E. MINIMUM CONTROL MEASURES (MCMs)

- 1. Public Education and Outreach of Stormwater Impacts
 - a. The permittee shall implement a public education and outreach program to inform the public about the impacts of stormwater discharges on waterbodies and steps the public can take to reduce pollutants in stormwater runoff. As part of the SWMP, the program shall include the following, at a minimum:
 - A description of how the public is targeted based on the specific group's potential to have significant stormwater impacts;
 - ii. A list of pollutants the program is developed to address, including at a minimum:
 - 1. Pollutants associated with the application of pesticides, herbicides, and fertilizers; and
 - 2. Pollutants associated with the management and disposal of used oil and toxic materials.
 - iii. A description of education and outreach activities and materials specific to targeted audiences and pollutants;

iv. A description of a program to promote, publicize, and facilitate public reporting of the presence of illicit discharges or water quality impacts associated with discharges from the MS4.

2. Public Involvement and Participation

- a. The permittee shall implement a public involvement/participation program that shall at a minimum, include the following:
 - i. Opportunities for public involvement in the development of the permittee's SWMP; and
 - ii. Opportunities for public participation in implementation activities such as volunteer stream clean-up events.

3. Illicit Discharge Detection and Elimination

- a. The permittee shall develop, implement, and enforce a program to detect and eliminate illicit discharges, as defined in 10 CSR 20-6.200(1)(C)7, into the permittee's MS4. As part of the SWMP, the permittee's illicit discharge detection and elimination program shall include the following at a minimum to the extent allowable under state or local law:
 - i. A storm sewer map showing the locations of all known constructed outfalls and the names and locations of all receiving waters of the state that receive discharges from the permittee's MS4. The permittee shall describe the source of information they used for the map(s), and how the permittee plans to verify the outfall locations with field survey or field screening points. If already completed, the permittee shall describe how the map was developed and how the map will be regularly updated. The permittee shall make the map and map information available to the Department upon request;
 - ii. A plan to prohibit through ordinance, orders, or similar means illicit discharges into the permittee's MS4, and implement appropriate enforcement procedures and actions.
 - iii. Inspection and investigation procedures for detecting and eliminating illicit discharges.
 - iv. A program to conduct field screening at field screening points or major outfalls with the purpose of finding and eliminating illicit discharges and illegal dumping. The program shall include the following:
 - A description of areas or locations that will be evaluated by field screening including a description of how locations are established;
 - 2. A description of the number of locations that will be screened annually and how locations will be selected;
 - A description of field screening procedures, including recording of visual observations and testing or sampling if flow is observed;
 - Procedures to minimize, contain, and respond to spills that discharge or have potential to discharge into the MS4;
 and
 - vi. A description of controls to limit infiltration of seepage from municipal sanitary sewers to the permittee's MS4.

4. Construction Site Stormwater Runoff Control

- a. The permittee shall develop, implement, and enforce a program to reduce pollutants in stormwater runoff to their MS4 from construction activities on land disturbances sites that disturb one or more acres or disturb less than one acre when part of a larger common plan of development or sale that will disturb a cumulative total of one or more acres over the life of the project. As part of the SWMP, this program shall include the development and implementation of the following:
 - Ordinances, orders, or similar means to require entities conducting land disturbance activities, in accordance with Part E.4.a. of this permit to implement and maintain erosion and sediment control BMPs at construction sites including sanctions designed to ensure compliance, to the extent allowable under state or local law;
 - Requirements for construction site operators to control construction site waste that may cause adverse impacts to water quality, such as discarded building material, concrete truck washout, chemicals, litter and sanitary waste;
 - Procedures for the permittee to review all construction site stormwater pollution prevention plans for potential water quality impacts;
 - iv. Procedures for the permittee to receive and respond to public reporting of the discharge of pollutants from construction sites in coordination with the permittee's public education and outreach program;
 - Procedures for the permittee to inspect construction sites and enforce control measures, including prioritization of site inspections;
 - vi. A plan designed to ensure compliance with the permittee's erosion and sediment control ordinances, orders or similar means including sanctions and enforcement mechanisms the permittee will use to ensure compliance and procedures for when certain sanctions will be used. Possible sanctions include non-monetary penalties (such as stop work orders), fines, bonding requirements, and/or permit denials for non-compliance; and
 - vii. A description of appropriate educational and training measures for construction site operators.

5. Post-Construction Stormwater Management in New Development and Redevelopment

- a. The permittee shall develop, implement, and enforce a program to address the quality of long-term stormwater runoff from new development and redevelopment projects that disturb one or more acres or disturb less than one acre when part of a larger common plan of development or sale that will disturb a cumulative total of one or more acres over the life of the project. This program shall ensure that stormwater controls are in place that have been designed, developed, and implemented to minimize water quality impacts. This program, at a minimum, shall include:
 - Ordinances or other regulatory mechanisms to address post-construction runoff from new development and
 redevelopment projects to the extent allowable under state or local law. If the permittee needs to develop an
 ordinance or mechanism, the permittee shall describe the plan and a schedule for implementation. If the permittee's
 ordinance or regulatory mechanism is already developed, the permittee shall include a copy of the relevant sections
 within the SWMP;
 - ii. A plan to ensure adequate long-term operation and maintenance of selected BMPs, including types of agreements between the permittee and other parties (e.g., post-development landowners, regional authorities, etc.);
 - iii. Strategies developed with the purpose to minimize water quality impacts, minimize the creation of stormwater pollution, and/or utilize BMPs that remove or reduce stormwater pollution that include a combination of structural and/or non-structural BMPs appropriate for the permittee's community. In developing these strategies, the permittee shall consider:
 - The assessment of site characteristics at the beginning of the development design phase to ensure adequate planning for stormwater program compliance;
 - The development and implementation of a stormwater design criteria manual to contain standard sustainable site design criteria and BMP selection and design criteria to reduce water quality impacts;
 - 3. Buffer criteria for streams and other environmentally sensitive areas;
 - 4. Provisions for preservation of undisturbed natural areas, trees, and steep slopes, when feasible;
 - The development of floodplain management controls to minimize pollution with floodplain management controls; and
 - iv. Inspect or require the inspection of post-construction BMPs that functions to remove or reduce pollution of stormwater and ensure that all BMPs are implemented and effective.

6. Pollution Prevention and Good Housekeeping for Municipal Operations

- a. The permittee shall develop and implement an operation and maintenance program for municipal operations owned or operated by the permittee. This program shall, at a minimum, include the following:
 - An employee training program to prevent or reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance. The permittee shall describe any existing, available material the permittee plans to use such as those available from EPA, the state, or other organizations;
 - Maintenance BMPs, maintenance schedules, and long-term inspection procedures for structural controls to reduce floatables and other pollutants in discharges from the MS4;
 - iii. Controls for reducing or eliminating the discharge of pollutants from street, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer station, fleet or maintenance shops with outdoor storage areas, and salt/sand storage locations and snow disposal areas the permittee operates. The permittee shall, at a minimum, conduct the following:
 - Store and cover deicing chemicals and implement deicing practices to reduce the discharge of pollutants to the MS4;
 - Street sweepings or similar activities on curb and gutter streets to MEP, and ensure the proper disposal of the street sweepings;
 - 3. Street design, construction, and maintenance practices that reduce the discharge of pollutants to the MS4; and
 - 4. Routinely clean grated inlets, roadway stormwater inlets, and catch basins;
 - iv. Storage of all paints, solvents, petroleum products and petroleum waste products (except fuels) under the control of the permittee shall not be exposed to stormwater. Sufficient practices of spill prevention, control, and/or management shall be provided to prevent any spill of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also minimize the contamination of groundwater.
 - v. A plan to reduce pollutants in discharges from the permittee's MS4 associated with the application of pesticides, herbicides, and fertilizers. The plan shall include controls such as educational activities, permits, certifications and

other measures determined appropriate by the permittee for commercial applicators and distributors, and controls for application in public right-of-ways and at municipal facilities.

7. Industrial and High Risk Runoff

- a. The permittee shall implement a program to monitor and control pollutants in stormwater discharges to the MS4 from industrial and high risk runoff facilities regardless of ownership. The program shall include, at a minimum, the following:
 - i. Identify all of the activities below that discharge into the MS4:
 - 1. Municipal landfills;
 - 2. Hazardous waste treatment, storage, and disposal facilities (i.e., Resource Conservation and Recovery Act facilities);
 - Industries subject to reporting requirements pursuant to Title III Section 313 of the Superfund Amendments and Reauthorization Act of 1986; and
 - 4. Industrial facilities that the permittee determines are contributing a substantial loading of pollutants to the MS4.
 - Identify priorities and procedures for inspections and establishing and enforcing control measures for such discharges; and
 - iii. A monitoring program for stormwater discharges associated with the facilities listed under Part E.7.a..i.1-4.
- b. The permittee shall develop and maintain a list of all municipal operations that are impacted by the permittee's Operation and Maintenance program under Part E.6. Pollution Prevention and Good Housekeeping for Municipal Operations. The permittee shall include a list of industrial facilities that the permittee owns or operates that are subject to NPDES permits for discharges of stormwater associated with industrial activities that discharge to the permittee's MS4. The permittee shall include the permit number or a copy of the No Exposure Exemption Certification (if applicable) for each facility. NPDES permitted facilities not owned or operated by the permittee are not required to be part of the list.

8. Flood Control Projects and Devices

- a. The permittee shall develop and implement procedures to assess the impacts on water quality in the design of all new flood control projects that will be associated with the permittee's MS4, including any flood control project that receives stormwater from the permittee's MS4 prior to discharging to waters of the state or discharges to the permittee's MS4. The process shall include considerations of controls that can be used to minimize the impacts to water quality, including adverse physical and hydrological changes, on the water bodies receiving stormwater discharges from the permittee's MS4;
- b. The permittee shall develop and implement an evaluation procedures for existing flood control devices to determine if retrofitting the device to provide additional stormwater pollutant reduction is feasible, respective of both affordability and engineering constraints. The permittee shall establish a prioritized schedule for implementing retrofits of flood control devices owned and operated by the permittee that have been determined to be feasible;
- c. The permittee shall include their procedure or provide means to access their procedure in their SWMP document.

9. Monitoring

- a. Representative monitoring shall be conducted by the permittee on representative outfalls, internal sampling stations, or instream monitoring locations with the purpose of characterizing the quality of stormwater discharging from the permittee's MS4. The monitoring program shall include the following:
 - Stormwater samples shall be collected from stormwater discharges from three (3) storm events annually occurring at least 1 month apart;
 - ii. The permittee shall conduct storm event representative sampling at a minimum of six separate locations to be described in the permittee's SWMP. The Department may allow changes to the monitoring locations upon notification to the Department by the permittee in accordance with Part D.5. of this permit;
 - iii. Parameters to be sampled and analyzed or calculated shall include the following at a minimum. The Department may allow changes to the parameters upon notification by the permittee in accordance with Part D.5. of this permit:
 - 1. Total Suspended Solids;
 - 2. Specific conductivity;
 - 3. Chemical Oxygen Demand;
 - 4. Biochemical Oxygen Demand;
 - 5. Oil and Grease;
 - 6. E. coli;

- 7. pH;
- 8. Total Kjeldahl Nitrogen;
- 9. Nitrate + Nitrite;
- 10. Dissolved Phosphorus;
- 11. Total Phosphorus; and
- 12. The Department may require additional parameters along with sampling conditions such as locations, season of sample collection, form of precipitation, and other parameters to ensure representativeness. In the event the Department requires additional parameters to be sampled, the Department will submit an official written request at least one calendar year prior to the expiration date of this permit.
- 13. Storm event data records shall be maintained of all analytical results, the date and duration (in hours) of the storm event(s) samples, rainfall measurements or estimates (in inches) of the storm event which generated the runoff that was sampled, and the duration (in hours) between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.
- b. Biological Assessments. During the life of this permit, the permittee shall conduct macroinvertebrate assessments of two urban streams for a minimum of one year (fall and spring). Before assessments begin, the permittee shall submit a sampling plan for Department approval. The permittee shall use current Department protocols for biological assessments, which are available through Department staff at the Environmental Services Program. The streams that are candidates for assessments and a rationale for the selection of streams for assessments shall be included in the SWMP. Selection rationale should reflect the comprehensive and iterative planning process as specified in 40 CFR 122.26(d)(2)(iv). The results of the assessments shall be included in the annual report and should address identification of water quality improvements or degradation.
- c. Analysis and collection of samples shall be conducted in accordance with methods specified in 40 CFR 136. Where an approved Part 136 method does not exist, any available method may be used unless a particular method or criteria for method sections (such as sensitivity) has been specified in this permit.

F. REPORTING AND RECORDKEEPING

- 1. The permittee shall submit an annual report to the Department by October 28th of each year. The report shall cover the permittee's fiscal year (May 1 April 30) and reported the immediate following October. Depending on permit issuance, the first report required by this permit may be partial. The report shall:
 - a. Provide a list of names and contact information for staff who ensure the successful implementation for each Minimum Control Measure;
 - b. Provide a general summary of each Minimum Control Measure. The summary shall include:
 - i. Overall compliance with permit conditions and SWMP;
 - ii. List of BMPs used to implement the Minimum Control Measure;
 - iii. A description of assessment used to determine the appropriateness of the BMPs;
 - iv. A description of the iterative process used to replace or modify any BMP or measurable goal, if applicable;
 - Status of the Measurable Goals for each BMP or the completion date for any measurable goal completed during the reporting period;
 - vi. An explanation for any measurable goal scheduled for completion during the reporting period that was not completed. Any modified goals or deadlines shall be listed;
 - vii. A brief summary of stormwater activities planned for the next reporting cycle and implementation schedule, if feasible;
 - viii. Any planned changes to the SWMP, which may include any changes to the minimum control measures including changes to BMPs, measurable goals, or the iterative process;
 - ix. Summary of monitoring required by this permit by their Minimum Control Measure, which shall include a justification for any required monitoring that was not completed. The monitoring results shall be reported in a table format with the analytical result. The summary shall also include a general discussion of the results with respect to MEP and, if applicable, TMDL parameters; and
 - x. A summary of the permittee's TMDL ARAP, if applicable.
- 2. The permittee shall retain records of any monitoring information used to complete their renewal application for this operating permit, implementation of any part of this operating permit, and implementation of any part of the permittee's SWMP for a period of at least three (3) years from the date of the sample, measurement, or analysis. This period may be extended by official request from the Department at any time. Monitoring data shall include, if applicable, the below information:
 - All calibrations and maintenance records;
 - b. All original strip chart recordings for continuous monitoring instrumentation;
 - c. The date, location, and time of sampling or measurement;
 - d. The individual(s) who performed the sampling or measurement;

- e. The date(s) analyses were performed;
- f. The individual(s) who performed the analyses;
- g. The analytical technique or method used; and
- h. The results of such analyses.
- 3. The permittee shall retain records of all activities requiring recordkeeping by the SWMP, a copy of the NPDES permit, a copy of all ordinances, policies, and formal procedures for all MCMs and records of all data used to complete the renewal application for this period for a period of at least three (3) years from the date of the report or renewal application. This period may be extended by official request of the Department at any time.
- 4. The permittee shall retain the most recent version of their SWMP at a reasonable location accessible to the Department.

G. APPLICATION REQUIREMENTS FOR RENEWAL OF OPERATING PERMIT

- 1. The permittee shall submit an application for renewal of permit at least 180 days prior to the expiration date of this permit to the Department's MS4 coordinator unless the Department allows a later deadline not to exceed the expiration of this permit. Additionally, the permittee shall provide the following information, at a minimum, in their application for renewal:
 - a. Name and mailing address of the permittee;
 - Name(s), address, telephone number, and email address of the permittee's main contact for their MS4 program, or for each MCM:
 - c. General description of the permittee's activities that subject the permittee to MS4 requirements;
 - d. Proposed, if any, program modifications and justification for changes to BMPs, measurable goals, or the iterative process required under the SWMP or MCMs;
 - e. Proposed, if any, modification and justification for changes to activities the permittee is conducting toward attainment of applicable WLA under EPA established or approved TMDLs;
 - f. Map(s) and locational data for known stormwater outfalls from the permittee's MS4 to waters of the state. Maps and locational data shall be divided into new stormwater outfalls, if applicable, and existing stormwater outfalls, and list the receiving stream;
 - g. Map(s) documenting service or jurisdictional boundary of the MS4, projected changes in land use, population densities, or projected future growth;
 - h. If any entity, which includes co-permittees or other governmental agencies, are implementing or conducting activities to satisfy the terms and conditions of the permit or SWMP. If applicable, the permittee shall submit:
 - i. Name and mailing address of the outside entity;
 - ii. Name(s), address, telephone number and email address of the person(s) conducting the activities for the outside entity or co-permittee; and
 - iii. Description of what the outside entity or co-permittee is conducting in satisfaction of the permit or SWMP;
 - i. The permittee proposed SWMP including TMDL implementation; and
 - j. A description of any service or jurisdictional area expansion subject to the permittee's SWMP. The change in area can be documented via the map under Part G.1.g. of this permit, but must be clearly labeled.
- 2. If the Department creates and approves an application form for renewal for Phase I MS4s, then the permittee will complete and submit the renewal application form in satisfaction of Part G.1. of this permit. If the renewal application form for Phase I MS4s permits is not completed and approved by the Department within four years of the effective date of this permit, then the permittee is not required to use the renewal application form; however, the permittee may volunteer to use the renewal application, which will suffice for Part G. of this operating permit.

H. CERTIFICATIONS OF APPLICATIONS AND ANNUAL REPORTS

1. All renewal applications, applications to modify this operating permit, and annual reports shall be signed in accordance with 40 CFR 122.22 and 10 CSR 20-6.010(2)(B) and shall include the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

I. STANDARD PERMIT CONDITIONS

- Duty to Comply: The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a
 violation of the Missouri CWL and the Federal CWA and is grounds for enforcement action, permit termination, revocation
 and reissuance, modification, or for denial of a permit renewal.
- 2. It is a violation of the Missouri Clean Water Law to fail to pay required fees associated with this permit.
- 3. *Duty to Mitigate*: The permit holder shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.
- 4. Proper Operation and Maintenance: The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This condition requires the operation of backup or auxiliary facilities or similar systems installed by a permittee only when necessary to achieve compliance with the conditions of this permit.
- 5. Advanced Notice: The permit holder shall give advanced notice to the Department of any planned changes which may result in noncompliance with the terms and conditions of this permit.
- 6. Inspection and Entry: The permit holder shall allow the Department or an authorized representative (including an authorized contractor as a representative to EPA or the Department) upon the presentation of credentials and other documents as may be required by law to:
 - a. Enter the permit holder's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect any facility, equipment (including monitoring and control equipment), practices, or operation regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the federal CWA and/or Missouri's CWL, any substance or parameter at any location.
- Monitoring Methods: Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless
 another method is required under 40 CFR subchapters N or O or unless specified in this permit or an approved Quality
 Assurance Project Plan.
- Need to Halt or Reduce Activity Not a Defense: It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- Permit Actions: This permit may be modified, revoked, reissued, or terminated for cause. The filing of a request by the
 permittee for a permit modification, revocation and reissuance, termination, or notification of planned changes or anticipated
 noncompliance does not stay any term or condition of this permit.
- 10. Administrative Continuation of the Permit: If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with 10 CSR 20-6.010(10)(E) and remain in force and effect. If the permittee applies for renewal at least 180 days prior to the expiration date or in accordance with any Department extension not to exceed the expiration of this permit, permittee will automatically remain covered by the continued permit until the earlier of:
 - Reissuance or replacement of this permit, at which time the permittee shall comply with the application conditions of the new permit to maintain authorization to discharge;
 - b. Notice of termination;
 - c. Issuance of an alternative site-specific permit or alternative general permit for MS4 discharge; or
 - d. A permit decision by the Director not to reissue this permit, at which time the permittee shall seek coverage under an alternative general or site-specific permit.
- 11. Property Rights: This permit does not convey any property rights of any sort, or any exclusive privilege;
- 12. Duty to Provide Information: The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking, and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request copies of records required to be kept by this permit;

13. Falsification Penalties: Any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both. Second and successive convictions for violations under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two years, or both;

Appendix D – Inspection Reports

Sample Inspection Report

Instructions

This sample inspection report has been developed as a helpful tool to aid you in completing your site inspections. This sample inspection report was created consistent with EPA's Developing Your Stormwater Pollution Prevention Plan. You can find both the guide and the sample inspection report (formatted in Microsoft Word) at www.epa.gov/npdes/swpppguide.

This inspection report is provided in Microsoft Word format to allow you to easily customize it for your use and the conditions at your site. You should also customize this form to help you meet the requirements in your construction general permit related to inspections.

Using the Inspection Report

This inspection report is designed to be customized according to the BMP's and conditions at your site. For ease of use, you should take a copy of your site plan and number all of the stormwater BMPs and areas of your site that will be inspected. A brief description of the BMP or area should then be listed in the site-specific section of the inspection report. For example, specific structural BMPs such as construction site entrances, sediment ponds, or specific areas with silt fence (e.g., silt fence along Main Street; silt fence along slope in NW corner, etc.) should be numbered and listed. You should also number specific non-structural BMPs or areas that will be inspected (such as trash areas, material storage areas, temporary sanitary waste areas, etc.).

You can complete the items in the "General Information" section that will remain constant, such as the project name, NPDES tracking number, and inspector (if you only use one inspector). Print out multiple copies of this customized inspection report to use during you inspections.

When conducting the inspection, walk the site by following your site map and numbered BMPs/areas for inspection.

Also note whether the overall site issues have been addressed (customize this list according to the conditions at your site). Note any required corrective actions and the date and responsible person for the correction in the Corrective Action Log.

Stormwater Construction Site Inspection Report

	Cananal Info				
	General Info	rmation			
Project Name					
NPDES Tracking No.		Location			
Date of Inspection		Start/End Time			
Inspector's Name(s)					
Inspector's Title(s)					
Inspector's Contact Information					
Inspector's Qualifications					
Describe present phase of					
construction					
Type of Inspection: □ Regular □ Pre-storm event	During storm arout	Dogt storm o	vant		
Regular Pre-storm event	☐ During storm event	□ Post-storm e	vent		
Weather Information					
Has there been a storm event since	the last inspection? UYes	No			
If yes, provide:					
Storm Start Date & Time: Storm Duration (hrs):					
Approximate Amount of Precipitation (in):					
Approximate Amount of Freeig	onation (m).				
Weather at time of this inspection?					
•	☐ Sleet ☐ Fog ☐ Sno	wing 🚨 High Win	ds		
☐ Other:	Temperature:				
	-				
Have any discharges occurred since	e the last inspection? The	es 🗆 No			
If yes, describe:					
Are there any discharges at the tim	e of inspection? The same	No			
If yes, describe:					

Site-specific BMPs

- Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
1		□Yes □No	□Yes □No	
2		□Yes □No	□Yes □No	
3		□Yes □No	□Yes □No	
4		□Yes □No	□Yes □No	
5		□Yes □No	□Yes □No	
6		□Yes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	
11		□Yes □No	□Yes □No	
12		□Yes □No	□Yes □No	
13		□Yes □No	□Yes □No	
14		□Yes □No	□Yes □No	
15		□Yes □No	□Yes □No	
16		□Yes □No	□Yes □No	
17		□Yes □No	□Yes □No	
18		□Yes □No	□Yes □No	
19		□Yes □No	□Yes □No	
20		□Yes □No	□Yes □No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance	Corrective Action Needed and Notes
			Required?	
1	Are all slopes and	□Yes □No	□Yes □No	
	disturbed areas not			
	actively being worked			
	properly stabilized?			
2	Are natural resource	□Yes □No	□Yes □No	
	areas (e.g., streams,			
	wetlands, mature trees,			
	etc.) protected with			
	barriers or similar			
	BMPs?			
3	Are perimeter controls	□Yes □No	□Yes □No	
	and sediment barriers			
	adequately installed			
	(keyed into substrate)			
	and maintained?			
4	Are discharge points and	□Yes □No	□Yes □No	
	receiving waters free of			
	any sediment deposits?			
5	Are storm drain inlets	□Yes □No	□Yes □No	
	properly protected?			
6	Is the construction exit	□Yes □No	□Yes □No	
	preventing sediment			
	from being tracked into			
	the street?			
7	Is trash/litter from work	□Yes □No	□Yes □No	
	areas collected and			
	placed in covered			
	dumpsters?			
8	Are washout facilities	□Yes □No	□Yes □No	
	(e.g., paint, stucco,			
	concrete) available,			
	clearly marked, and			
	maintained?			
9	Are vehicle and	□Yes □No	□Yes □No	
	equipment fueling,			
	cleaning, and			
	maintenance areas free			
	of spills, leaks, or any			
	other deleterious			
	material?		_	
10	Are materials that are	□Yes □No	□Yes □No	
	potential stormwater			

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	contaminants stored inside or under cover?			
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	□Yes □No	□Yes □No	
12	(Other)	□Yes □No	□Yes □No	
			Non-Com	pliance
			ERTIFICATION	ISTATEMENT
with a inquininform	a system designed to assure by of the person or persons nation submitted is, to the	that qualified personal who manage the sybest of my knowledge.	sonnel properly ga ystem, or those per dge and belief, tru	were prepared under my direction or supervision in accordance thered and evaluated the information submitted. Based on my resons directly responsible for gathering the information, the e, accurate, and complete. I am aware that there are significant of fine and imprisonment for knowing violations."
Print	name and title:			
Signa	ture:			Date:
~-5				

Appendix E – SWPPP Update and Modification Log

Create a log here of the changes and updates to the SWPPP. You should include additions of new BMPs, significant changes in the activities or their timing on the project, changes in personnel, changes in inspection and maintenance procedures, and updates to the site maps, etc.

Updates	Date

Appendix F – Additional Information

(i.e. Endangered Species and Historic Preservation Documentation, additional per	mentation, additional permit	Do	Preservation	storic	and His	Species	ingered	Enda	(i.e.
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price, as set forth in the Bid Form, and shall constitute all labor, materials, and equipment necessary to complete these item.

Relocate KCMO Fiber

KCMO and the Park Hill School District currently share a 2" conduit located along the south side of the roadway which houses both of their systems. This bid item includes all materials and work to relocate this existing system and install an additional 3" empty conduit adjacent to the relocated 2" conduit. The exact location and depth of the existing system is unknown. Contractor is responsible for coordinating all work related to this bid item with the City of Kansas City Public Work Traffic Department and the Park Hill School District.

Materials and work for this items shall be in accordance with KCMO Public Works Traffic Department specifications and requirements.

Measurement for payment shall be to the nearest linear foot of completed and acceptable work along the relocated (new) conduits. Payment for this item shall be based upon the unit price per linear foot, as set forth in the Bid Form, and shall constitute all labor, materials, and equipment necessary to complete these item. Miscellaneous items, such as pull boxes, are considered subsidiary to this bid item and shall have no separate measurement and payment. No measurement or payment will be made for relocation of the existing 2" conduit which does is not necessary to construct the work. If Contractor desires to relocate additional portions of the existing 2" conduit this additional work and materials is considered subsidiary to other bid items.

Variable Message Signs

Contractor is to provide and maintain two Variable Message Signs (VMS) for the duration of the project. The VMSs shall be placed at the east and west end of the project a minimum of 14-days prior to the start of construction. The boards shall be changed throughout construction to provide information as necessary. The Contractor shall coordinate with the City of Kansas City for location of signs during project and signs shall be replaced during each construction phase as directed by the City.

Each sign shall have a rotatable display and be trailer mounted with tilt and rotate solar panels for batter recharging. Other features shall include:

- Touch screen programmable controller for easy operation
- Full matrix display with minimum dimension of 63 inches by 98 inches and 4 LEDs per pixel cable displaying up to 3 lines of text with up to 8 characters per line.
- Powder coated all-weather trailer with fenders and 2 inch coupler for towing
- Battery with lockable battery boxes
- Operating height of 180 inches and traveling dimensions of no more and 108 inches tall and 83 inches wide.

Temporary Erosion Control (all items)

Materials and work for this item shall be in accordance with KCMO-APWA specifications and standard details.

Measurement for payment shall be as indicated in the Bid Form of completed and acceptable work. Excavating, miscellaneous removals, backfilling, and other incidental work shall be considered subsidiary to these items. Payment for these items shall be based upon the unit price, as set forth in the Bid Form, and shall constitute all labor, materials, and equipment necessary to complete these item.