CITY OF JOPLIN
ADDENDUM NUMBER 1

Issued to all Bid Document Holders of Record.

Date: 1/2/2020

Project Name: **City of Joplin Trail and Pedestrian Bridge STP-3201(705)**

This addendum forms a part of the contract described above. The original Contract Documents and any prior addenda remain in full force and effect as modified by the following that shall take precedence over any contrary provisions in the prior documents.

1) **REVISED BID DATE**: The City inadvertently provided an incorrect plan set on its website. Due to this error, the bid date for the project is hereby revised to **Tuesday, January 14, 2020 at 10:00 AM** in the 4th Floor Conference Room. The final date for submission of questions, in writing, has been changed to Wednesday, January 8, 2020 at 12:00 PM.

2) A correct, complete set of plans, signed and dated by the City of Joplin on 10/10/19 is attached and shall be used for the preparation of the bids. Please utilize the existing bid form, as no changes to bid items have been made.

3) Questions and Answers from the Pre-Bid meeting is attached.

4) An updated Federal Wage Decision, General Decision Number MO2019001 Modification Number 17 is attached and shall be utilized in the preparation of bids.

Dan Johnson
Dan Johnson, PE
Asst. Director of Public Works

1-2-20
Date

Each bidder shall acknowledge receipt of this addendum by affixing his signature below by noting this addendum on his bid form, and by attaching this addendum to his bid.

ACKNOWLEDGEMENT
The undersigned acknowledges receipt of this addendum and the Bid submitted in accordance with information, instructions and stipulations set forth herein.

Bidder: _____

Signed By: _____

Date: _____

CITY OF JOPLIN

CITY OF JOPLIN TRAIL AND PEDESTRIAN BRIDGE STP-3201(705)

QUESTIONS AND ANSWERS FROM PRE-BID MEETING

The following clarifications shall be utilized for preparing bids

Pre-Bid Meeting Questions

1. Are the staging areas shown on the plans approved for use?

    a. An updated, corrected set of plan sheets has been provided with this addendum. Sheet TC-01 shows the one and only approved staging area for this project, located on MSSU property. The staging area previously shown near the Regal Cinemas has not been approved for use by the contractor, and therefore shall not be used as a part of this project. Any deviation from this plan shall be solely between the contractor and the property owners.

2. Will burning be allowed on this project?

    a. Standard City procedures shall be followed to obtain a burn permit, including obtaining written permission from the City of Joplin Fire Marshall and Public Works Director

3. What will the process be if lead contaminated soils are encountered on the project?

    a. The project soils will be tested for lead contaminants during the project. If lead contaminated soils are encountered that cannot be utilized within the project limits, a new item will be added by Change Order to account for the disposal of these soils.

4. How many Type 3 barricades are required at each end of the trail during construction?

    a. The contractor shall place 2 (two) Type 3 barricades at each end of the trail (4 total). The traffic control devices shown in the plans are the minimum required for the project. It is the contractor's responsibility to provide adequate traffic control devices to ensure the safety of the public during the project. Traffic control items will not be paid for directly, and shall be considered subsidiary to other items of work.

5. What type of casing, if any is required for the pre-drilled piling, and what are the pre-drilled holes to be backfilled with?

   a. All work associated with the Steel Piling shall be constructed in accordance with MoDOT Standard Specifications Section 702, with special attention paid to Section 702.4.3.1 regarding pre-boring into rock.

GENERAL NOTES

1. THE CONTRACTOR SHALL FOLLOW THE JOB SPECIAL PROVISIONS FOR THIS PROJECT. FOR ITEMS NOT DIRECTLY COVERED IN THE JOB SPECIAL PROVISIONS THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS AS STATED IN THE "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION "2019" EDITION, AND CURRENT SUPPLEMENTAL SPECIFICATION REVISIONS.

2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY UPON DISCOVERY OF A DISCREPANCY BETWEEN THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS.

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO BE LIABLE FOR DAMAGE AND CONSEQUENT REPAIR TO SUCH IN THE COURSE OF HIS OPERATIONS.

4. THE CONTRACTOR SHALL LOCATE SAW CUT LINES WHERE NECESSARY TO PERFORM THE DEMOLITION AND CONSTRUCTION REQUIRED. ALL JOINTS WHERE NEW CONSTRUCTION MATCHES EXISTING SHALL BE SAW CUT TO NEAT LINES.

5. THE CONTRACTOR WILL KEEP THE CONSTRUCTION SITE NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS TAKING PLACE. THE PROPER AMOUNT OF INSPECTION SHALL BE CALLED FOR AT THEIR PROPER TIMES, OR ANY AND ALL WORK MAY BE REJECTED. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE DESIGN PROFESSIONAL OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE. IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN OR NEAR THE CONSTRUCTION SITE.

6. ALL AREAS DISTURBED BY CONSTRUCTION, AND NOT INDICATED TO RECEIVE ANY OTHER FORM OF SURFACE TREATMENT, SHALL BE DRESSED AND SEEDED TO LAWN CONDITIONS.

7. NO TREE TRIMMING TO BE DONE WITHOUT WRITTEN PERMISSION FROM THE CITY OR MSSU.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC STREETS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL, AND DEBRIS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES DURING THE ENTIRE CONSTRUCTION PERIOD. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.

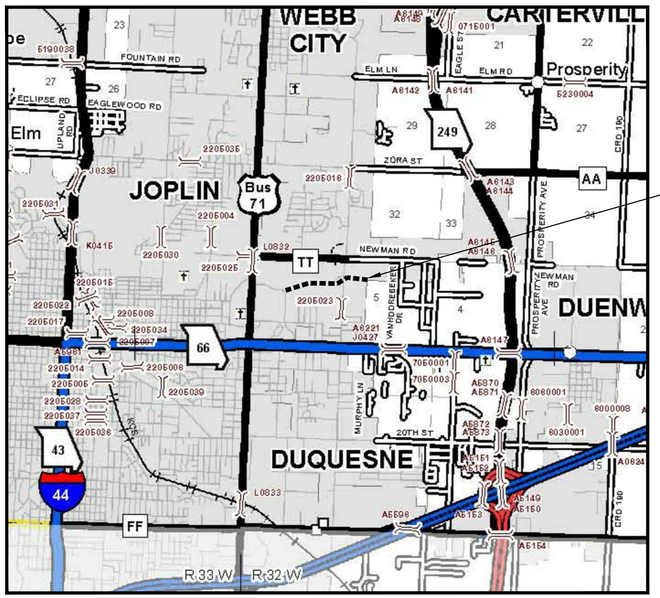
10. THE CONTRACTOR TO RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT AN OFFSITE FACILITY. CONTRACTOR TO CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF-SITE

11. TRAIL CROSS SLOPES SHALL BE 1/2% MINIMUM, 1% TYPICAL, AND 2% MAXIMUM WHEN MEASURED WITH A 2' DIGITAL LEVEL.

CONSTRUCTION PLANS
CITY OF JOPLIN TRAIL & PEDESTRIAN BRIDGE
STP 3201(705)

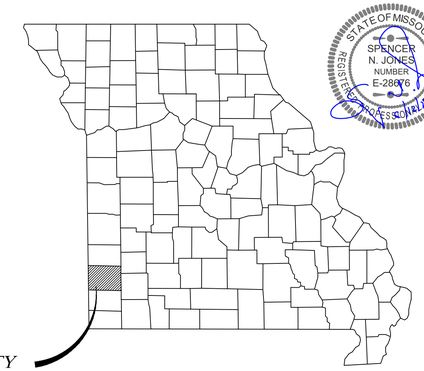
SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
CV-01	COVER SHEET
QTY-01	QUANTITIES
TC-01	TRAFFIC CONTROL
GR-01 - GR-02	GRADING, EROSION CONTROL PLAN & DETAILS
RW1	RIGHT-OF-WAY PLAN
C-01 - C-04	TRAIL PLAN AND PROFILE
CS-01 - CS-04	CROSS SECTIONS
DE-01	CONSTRUCTION DETAILS
S-01	BRIDGE PLAN & ELEVATION DETAILS
S-02	SOIL DATA
S-03 - S04	BRIDGE END BENT DETAILS
S-05	BRIDGE INTERMEDIATE BENT DETAILS
S-06 - S08	BRIDGE SLAB BEAM DETAILS
S-09	BRIDGE BILL OF REINFORCING

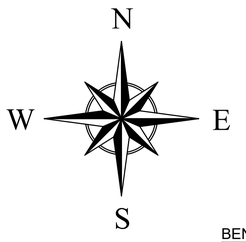


MSSU TRAIL PROJECT LOCATION

GENERAL LOCATION MAP
JOPLIN, MISSOURI
SECTION 6, TOWNSHIP 27 NORTH, RANGE 32 WEST



SHOWING LOCATION OF COUNTY
NOT TO SCALE



BENCHMARK DATA

BM1 - TOP OF CURB AT THE NORTHWEST CORNER OF PARKING LOT, LOCATED ON THE NORTH SIDE OF THE EXISTING MOVIE THEATER

ELEVATION=986.00'

BM2 - TOP OF CURB AT THE NORTHEAST CORNER OF PARKING LOT, LOCATED ON THE NORTH SIDE OF THE EXISTING MOVIE THEATER

ELEVATION=973.38'

(VERTICAL DATUM : NAVD88)

Point Table				
Point #	Northing	Easting	Elevation	Description
1	337496.4190	2799432.2867	983.91	CP 1 BASE
2	337497.6125	2799637.9931	985.78	CP 2 MAG NAIL
162	337521.9125	2798322.1059	979.01	CP 162 60D
1000	337484.6358	2799419.5681	983.66	CP 1000 60D

LEGEND

- = IRON PIN SET (TYPICAL) GREAT RIVER 2001011476
- = EXISTING IRON PIN FOUND, AS NOTED
- = EXISTING RIGHT-OF-WAY
- = EXISTING CONTOUR MAJOR
- = EXISTING CONTOUR MINOR
- = EXISTING TREE, SIZE AS NOTED
- = EXISTING BUSH, SIZE AS NOTED
- = EXISTING TELEPHONE RISER
- = EXISTING LIGHT POLE
- = EXISTING POWER POLE
- = EXISTING ELECTRIC RISER
- = EXISTING SEWER MANHOLE
- = EXISTING GAS VALVE
- = EXISTING GAS METER
- = EXISTING MAIL BOX
- = EXISTING SIGN
- = EXISTING WATER METER
- = EXISTING WATER VALVE
- = EXISTING FIRE HYDRANT
- = EXISTING SEWER LINE
- = EXISTING FENCE LINE
- = EXISTING CHAIN-LINK FENCE LINE
- = EXISTING WOOD FENCE LINE
- = EXISTING ELECTRIC LINE
- = EXISTING UNDERGROUND ELECTRIC
- = EXISTING TELEPHONE LINE
- = EXISTING UNDERGROUND TELEPHONE LINE
- = EXISTING GAS LINE
- = EXISTING WATER LINE
- = EXISTING GAS & WATER LINE

UTILITY DISCLAIMER

THE UNDERGROUND UTILITIES DEPICTED ON THIS SURVEY, ARE THOSE DISCOVERED BY FIELD INSPECTION, OR LOCATED BY UTILITY COMPANY REPRESENTATIVES; AND MAY NOT BE ALL THE UTILITIES ON OR NEAR THE PROPERTY. AFTER USING REASONABLE CARE IN THE LOCATION OF THOSE UTILITIES SHOWN, WE REFRAIN FROM WARRANTING EITHER THE LOCATION OF, OR COMPLETENESS OF, THOSE UTILITIES SHOWN, AS BEING ALL UTILITIES POSSIBLY AFFECTING THE SUBJECT PROPERTY.

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP-CALL BEFORE YOU DIG!

SUBMITTED AND RECOMMENDED

10/10/2019

CITY OF JOPLIN — DATE

No.	Revision/Issue	Date

STATE OF MISSOURI — SPENCER N. JONES — NUMBER E-28676 — REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI — JERANY L JACKSON — NUMBER LA-000175 — LANDSCAPE ARCHITECT — 5-15-19

JERANY L. JACKSON
MO# LA-000175

GRE GREAT RIVER ENGINEERING
2626 S. NOPAH MILL SPRINGFIELD, MO 65804
PHONE: (417) 886-7171 FAX: (417) 886-7591
www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2000165865; Land Surveying: 2000167443; Landscape Architecture: 2007013673

CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

COVER SHEET

DATE: 04.24.2019

JOB NUMBER: 13-3249

SHEET
CV-01

LINE	ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	AMOUNT
TRAIL ITEMS						
1	618	MOBILIZATION	L.S.	1		$ -
2	201	CLEARING AND GRUBBING	L.S.	1		$ -
3	203	EXCAVATION FOR ROADWAY - UNCLASSIFIED	C.Y.	295		$ -
4	203	EMBANKMENT IN PLACE W/ COMPACTION	C.Y.	367		$ -
5	310	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	S.Y.	2,388		$ -
6	401	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2)	TON	105		$ -
7	403	ASPHALTIC CONCRETE MIXTURE PG 64-22 (SP095C MIX)	TON	208		$ -
8	608	CONCRETE CURB RAMP	S.Y.	33.0		$ -
9	608	TRUNCATED DOMES	S.F.	39		$ -
10	608	4" PVC SLEEVES (15' IN LENGTH)	L.F.	60		$ -
11		CONCRETE FLUME	S.Y.	5		$ -
12	310	TYPE 1 AGGREGATE AT CONCRETE FLUME	S.Y.	148		$ -
13	805	SEEDING	AC.	0.22		$ -
14	806	SILT FENCE	L.F.	182		$ -
15	806	SILT DITCH CHECK	EA.	8		$ -
					TRAIL ITEMS SUBTOTAL	*$* -
BRIDGE ITEMS						
16	206	UNCLASSIFIED EXCAVATION (STRUCTURE)	C.Y.	76		$ -
17	611	TYPE 2 ROCK BLANKET	C.Y.	160		$ -
18	702	STRUCTURAL STEEL PILES (10 IN.)	L.F.	69		$ -
19	702	PILE POINT REINFORCEMENT	EA.	6		$ -
20	702	PRE-BORE FOR PILING	L.F.	60		$ -
21	703	CLASS B1 CONCRETE	C.Y.	29.0		$ -
22	706	REINFORCING STEEL	LBS.	4,742		$ -
23	705	24 IN., PRECAST CONCRETE SLAB BEAM	L.F.	360		$ -
24	716	PLAIN NEOPRENE BEARING PAD	L.F.	40		$ -
25	705	STONE VENEER COLUMN	EA	4		$ -
					BRIDGE ITEMS SUBTOTAL	*$* -
					TOTAL CONTRACT	*$* -

STATE OF MISSOURI
SPENCER N. JONES
NUMBER E-23678
REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

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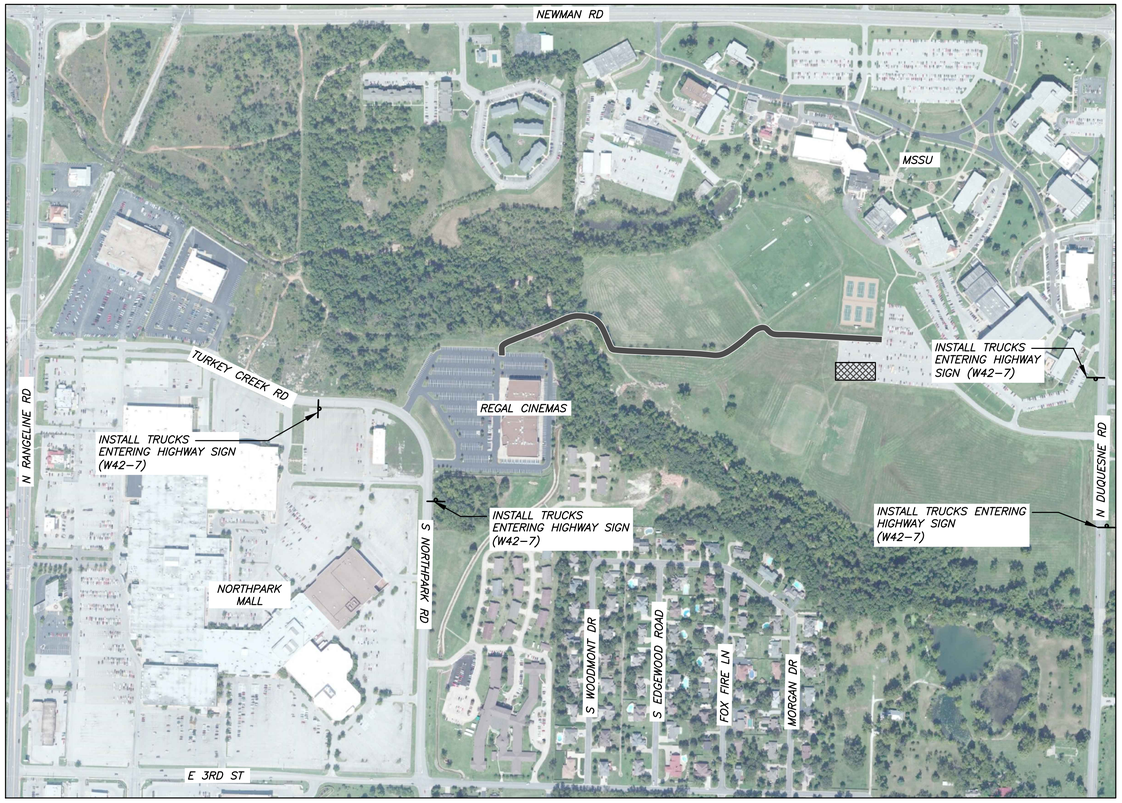
No.	Revision/Issue	Date

CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

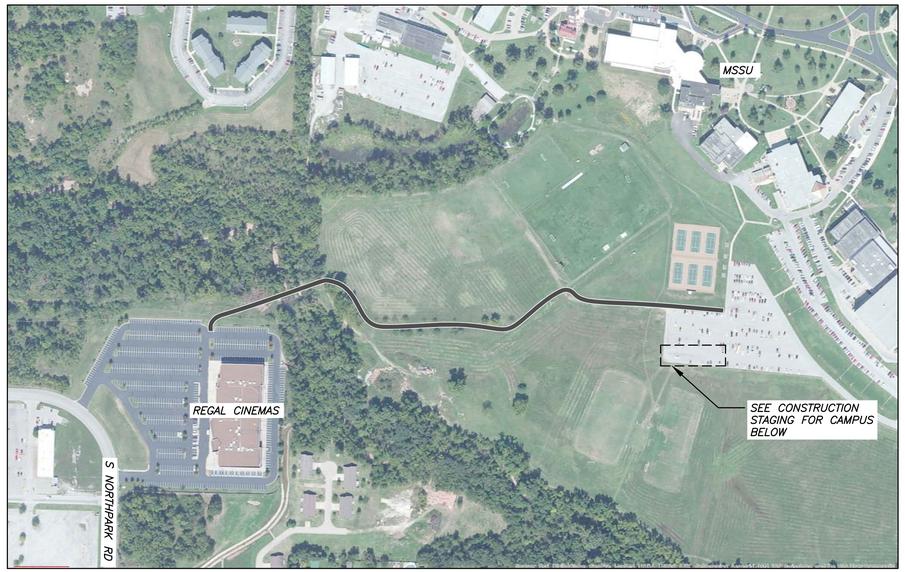
QUANTITIES

DATE: 04.24.2019
JOB NUMBER: 13-3249

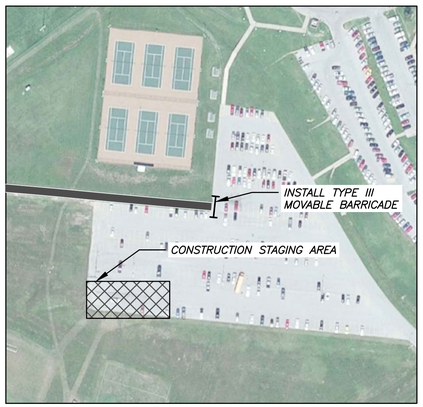
SHEET
QTY-01



TRAFFIC CONTROL FROM MAIN ACCESS POINTS



TRAIL LOCATION

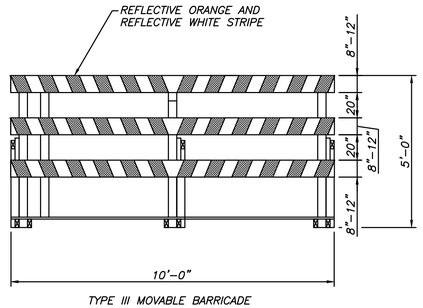


CONSTRUCTION STAGING AT CAMPUS

N

LEGEND

- CONSTRUCTION STAGING AREA
- TRAIL LOCATION
- TYPE 2 BARRICADE
- SIGN LOCATION



TYPE III MOVABLE BARRICADE

NOTES:

1. ALL SIGNS TO MEET MoDOT STANDARD SPECIFICATIONS FOR REFLECTIVITY AND OTHER DETAILS. ALL SIGNAGE TO MEET MUTCD REQUIREMENTS. SHOULD CONFLICTS EXIST BETWEEN MoDOT AND MUTCD FOLLOW MUTCD.

2. ALL REFLECTORIZED SURFACES SHALL BE TYPE 1 SHEETING UNLESS OTHERWISE INDICATED. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF BARRICADES. NO PAYMENT WILL BE MADE FOR RELOCATING SIGNS ON MOVABLE BARRICADES WHICH ARE TO BE RELOCATED UNLESS THE SIGN LEGEND IS TO BE CHANGED. STRIPES SHALL SLOPE DOWNWARD TOWARD THE SIDE WHICH TRAFFIC IS TO PASS.

BARRICADES

TRAFFIC CONTROL NOTES:

1. CONTRACTOR SHALL PROVIDE CONTINUOUS ACCESS FOR ALL EXISTING PROPERTY OWNERS.
2. ALL TRAFFIC CONTROL PROCEDURES AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MISSOURI DEPT. OF TRANSPORTATION PROJECT DEVELOPMENT MANUAL. MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION AND PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES SUCH AS CONES, DRUMS, FLASHERS, BARRICADES, SIGNS, ETC. TO SAFELY CHANNEL OR DIRECT TRAFFIC INCLUDING PEDESTRIANS. WHEN NECESSARY, FLAG-MEN SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL DEVICES. FLAG-MEN AHEAD SIGNS ARE REQUIRED IN ADVANCE OF FLAG-MEN EXCEPT DURING BRIEF PERIODS AND IN EMERGENCY SITUATIONS.
4. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WHENEVER NECESSARY, REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED, AND BE REMOVED IMMEDIATELY THEREAFTER. THESE MINIMUM REQUIREMENTS IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO MAINTAIN TRAFFIC IN A SAFE MANNER. CONTRACTOR SHALL INSTALL ADVANCED WARNING SIGNS WHEN NECESSARY SUCH AS WATCH FOR TRUCK TURNING, TRUCKS CROSSING, ETC. AND PLACE FLAG-MEN AS DIRECTED BY THE ENGINEER ALONG PUBLIC ROADS OR CROSSING OF ROADS.
5. NO OPEN CUTS SHALL BE LEFT UNPROTECTED WHEN THERE IS NO CONSTRUCTION ACTIVITY AT THE WORK SITE. INSTALL CONSTRUCTION FENCE AS NECESSARY. REFER TO MUTCD SECTION 6D WHEN FENCING WILL POSES A POTENTIAL VISUAL BARRIER.
6. DETOUR SIGNS SHALL BE INSTALLED AS NEEDED AND REMOVED WHEN WORK HAS BEEN COMPLETED.



W42-7
(36" x 36")

STATE OF MISSOURI
SPENCER N. JONES
NUMBER E-28676
REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

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Missouri State Certificate of Authority Numbers:
Engineering: 2000106885; Land Surveying: 2001011478; Landscape Architecture: 2007013873

No.	Revision/Issue	Date

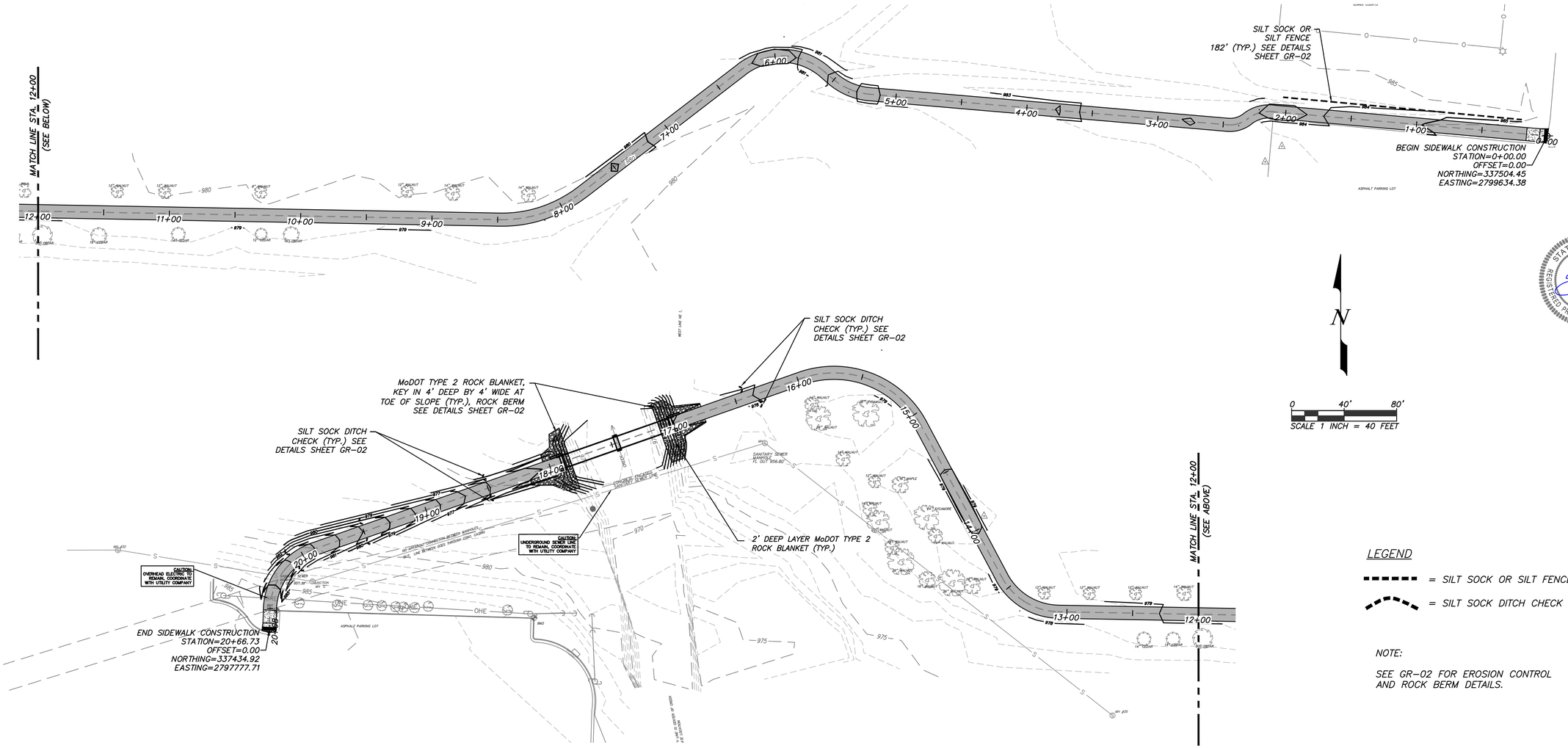
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

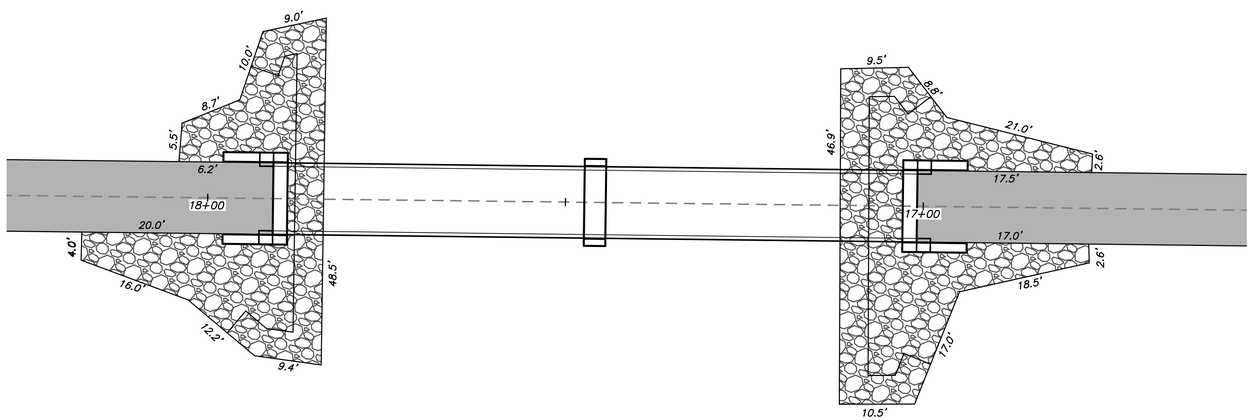
TRAFFIC CONTROL
CONSTRUCTION PHASING PLAN

DATE: 04.24.2019

JOB NUMBER: 13-3249

SHEET
TC-01





MoDOT TYPE 2 ROCK BLANKET LAYOUT PLAN

LEGEND

= SILT SOCK OR SILT FENCE

= SILT SOCK DITCH CHECK

NOTE:

SEE GR-02 FOR EROSION CONTROL AND ROCK BERM DETAILS.

No.	Revision/Issue	Date

REGISTERED STATE OF MISSOURI PROFESSIONAL ENGINEER
SPENCER N. JONES NUMBER E-28576
5-15-19

STATE OF MISSOURI
JERANY L JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

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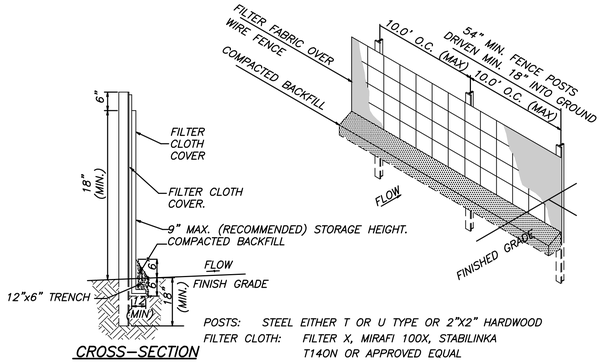
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

GRADING, EROSION CONTROL PLAN & DETAILS

DATE: 04.24.2019

JOB NUMBER: 13-3249

SHEET
GR-01



POSTS: STEEL EITHER T OR U TYPE OR 2"X2" HARDWOOD
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

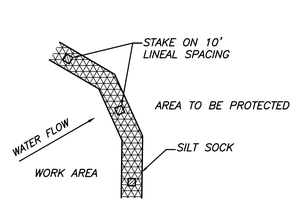
CROSS-SECTION

NOTES

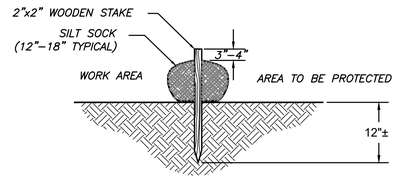
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
5. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
6. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

POST MESH SILT FENCE

NOT TO SCALE



PLAN VIEW



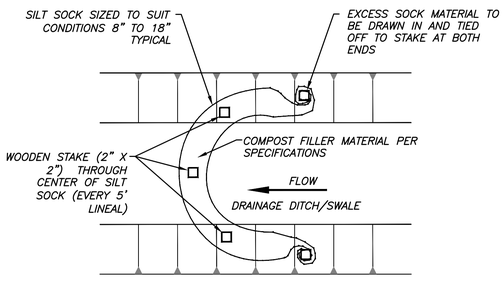
SECTION

NOTES

1. SILT SOCK COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. SILT SOCK DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
4. SILT SOCK TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
5. INSPECT SILT SOCK AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

SILT SOCK EROSION CONTROL

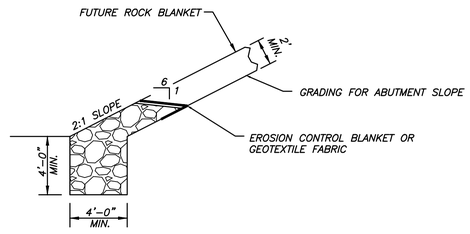
NOT TO SCALE



NOTES
1. ALL MATERIAL TO MEET SILT SOCK SPECIFICATIONS
2. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

SILT SOCK DITCH CHECK

NOT TO SCALE



ROCK BERM

NOTES:

BERM SHALL BE BUILT TO HANDLE SIGNIFICANT RUN-OFF EVENTS.

ROCK BERM SHALL BE PLACED AT THE BEGINNING OF CONSTRUCTION AND WILL BE INCORPORATED INTO THE ROCK BLANKET. COST SHALL BE INCLUDED IN THE UNIT PRICE FOR TYPE 2 ROCK BLANKET.

PRIOR TO FINAL PLACEMENT OF TYPE 2 ROCK BLANKET, CONTRACTOR SHALL REMOVE GEOTEXTILE FABRIC AND ANY SILT BUILDUP ALONG TOP OF ROCK BERM. ALL WORK NECESSARY FOR REMOVAL SHALL BE INCIDENTAL TO BID ITEM TYPE 2 ROCK BLANKET.

GRADING NOTES:

1. THIS PLAN SHOWS THE LOCATION AND DETAILS FOR PRIMARY SEDIMENT CONTROLS TO BE CONSTRUCTED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE NECESSARY MEASURES DURING ALL PHASES OF HIS OPERATIONS REGARDLESS OF WHETHER THEY ARE SPECIFICALLY NOTED ON THIS PLAN AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING THE COURSE OF HIS OPERATIONS.
2. SILT FENCES, OR OTHER INITIAL SEDIMENT CONTROLS SHOWN ON THIS PLAN MUST BE INSTALLED PRIOR TO ANY OTHER WORK.
3. THE CONTRACTOR SHALL CLEAN STREETS BOTH INTERIOR AND ADJACENT TO THE SITE, AS NEEDED AFTER EACH RAINFALL, AND AT THE END OF CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST DURING CONSTRUCTION AND SHALL WATER CONSTRUCTION AREAS WHENEVER CONDITIONS WARRANT.
5. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS, SOD, ETC., SHALL BE SEEDED AND MULCHED, AS SPECIFIED BELOW BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED AND PRIOR TO FINAL APPROVAL OF CONSTRUCTION.

- A MINIMUM DEPTH OF 4" OF TOPSOIL (PRIOR TO COMPACTING) SHALL BE SPREAD ON AREAS TO BE SEEDED.
- AFTER TOPSOIL IS SPREAD, LIME SHALL BE SPREAD AT THE RATE OF 800-900 POUNDS, EFFECTIVE NEUTRALIZING MATERIAL (ENM) PER ACRE.
- FERTILIZER SHALL BE SPREAD AT THE RATE OF 400-500 POUNDS PER ACRE, AND SHALL BE 13-13-13 NITROGEN, PHOSPHORUS, AND POTASSIUM.
- SEED MIX SHALL CONSIST OF 60-80 % KENTUCKY 31 TALL FESCUE AND 20-40 %). SEED MIX SHALL BE ANNUAL RYE GRASS (GERMINATION SHALL BE AT LEAST 85 SPREAD AT THE RATE OF 400-500 POUNDS PER ACRE.
- ALL AREAS TO BE SEEDED HAVING SLOPES STEEPER THAN 4:1 SHALL BE MULCHED WITH CEREAL GRAIN MULCH THE RATE OF 100 POUNDS PER 1000 SQUARE FEET (4500 POUNDS PER ACRE). CEREAL GRAIN MULCH SHALL MEET THE REQUIREMENTS OF SECTION 802 OF THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR TYPE I MULCH. MULCH MAY BE APPLIED BY HAND; HOWEVER, IT MUST BE EVENLY SPREAD.
  TYPE I MULCH SHALL BE THOROUGHLY WETTED IMMEDIATELY AFTER APPLICATION.
- WHERE SLOPES ARE 4:1 OR GREATER TYPE 3 MULCH ("HYDROMULCH") MEETING THE REQUIREMENTS OF SECTION 802 OF THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS SHALL BE USED. TYPE 3 MULCH SHALL BE APPLIED AT THE RATE OF 2000 POUNDS PER ACRE.
- PERMANENT SEEDING SEASON RUNS FROM MARCH 1ST TO JUNE 1ST AND AUGUST 15TH TO NOVEMBER 1ST. SEEDING AND MULCHING MUST BE DONE WHENEVER WORK IS COMPLETE REGARDLESS OF THE SEASON. WHENEVER SEEDING AND MULCH IS INSTALLED OUTSIDE OF THE PERMANENT SEEDING SEASON THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLANTING AND MULCHING ANY AREAS WHERE GROWTH HAS NOT BECOME ESTABLISHED DURING THE NEXT PERMANENT SEEDING SEASON.
- ALL AREAS MUST BE MAINTAINED BY THE CONTRACTOR FOR A MINIMUM OF 60 DAYS FOLLOWING INSTALLATION OR 60 DAYS FROM THE START OF THE FIRST PERMANENT SEEDING SEASON AFTER INSTALLATION.

No.	Revision/Issue	Date
1		
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STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER SPENCER N. JONES NUMBER E-28676

STATE OF MISSOURI JERANY L. JACKSON NUMBER LA-000175 LANDSCAPE ARCHITECT 5-15-19

JERANY L. JACKSON
MO# LA-000175

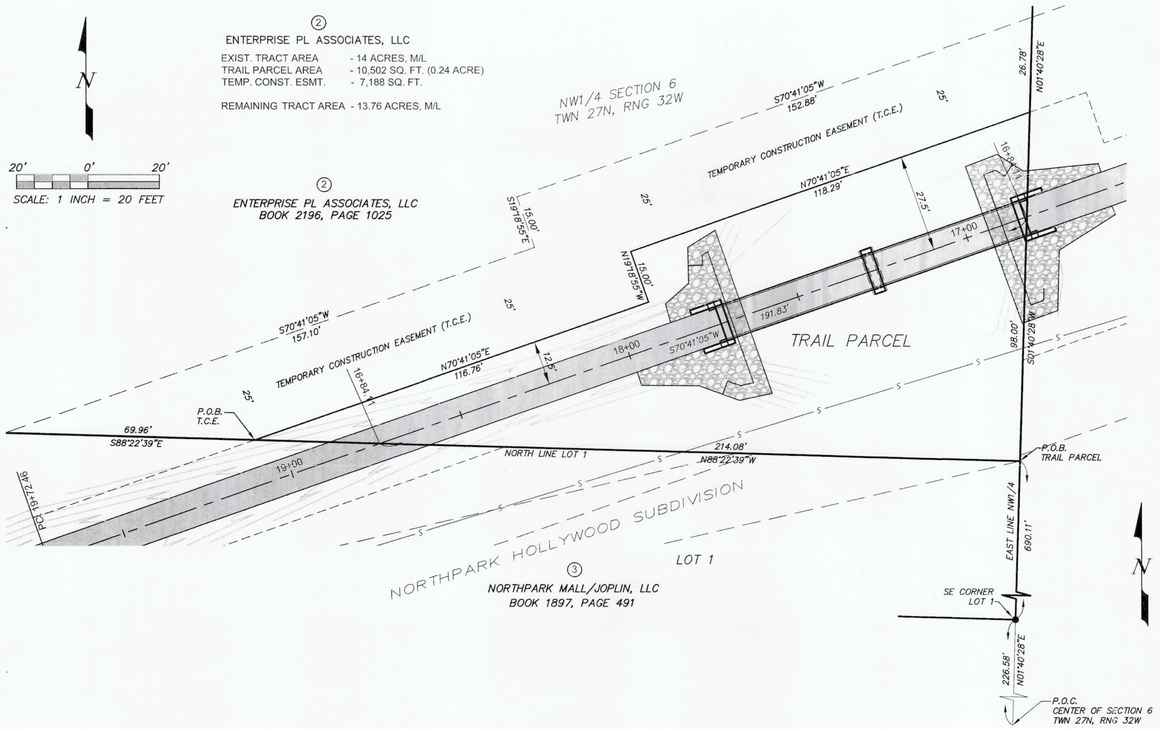
GREAT RIVER ENGINEERING
2636 S. WORAM MILL SPRINGFIELD, MO 65804
PHONE: (417) 886-7171 FAX: (417) 886-7591
www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018985 Land Surveying: 2006018743 Landscape Architecture: 2007013673

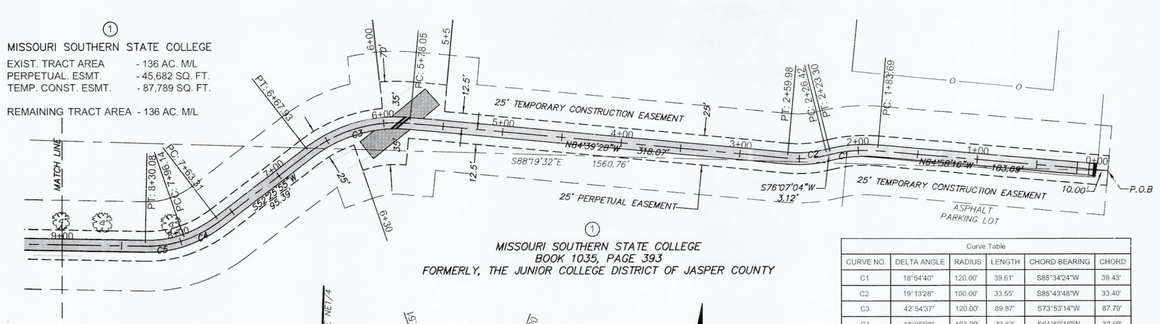
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

TEMPORARY EROSION CONTROL DETAILS
-

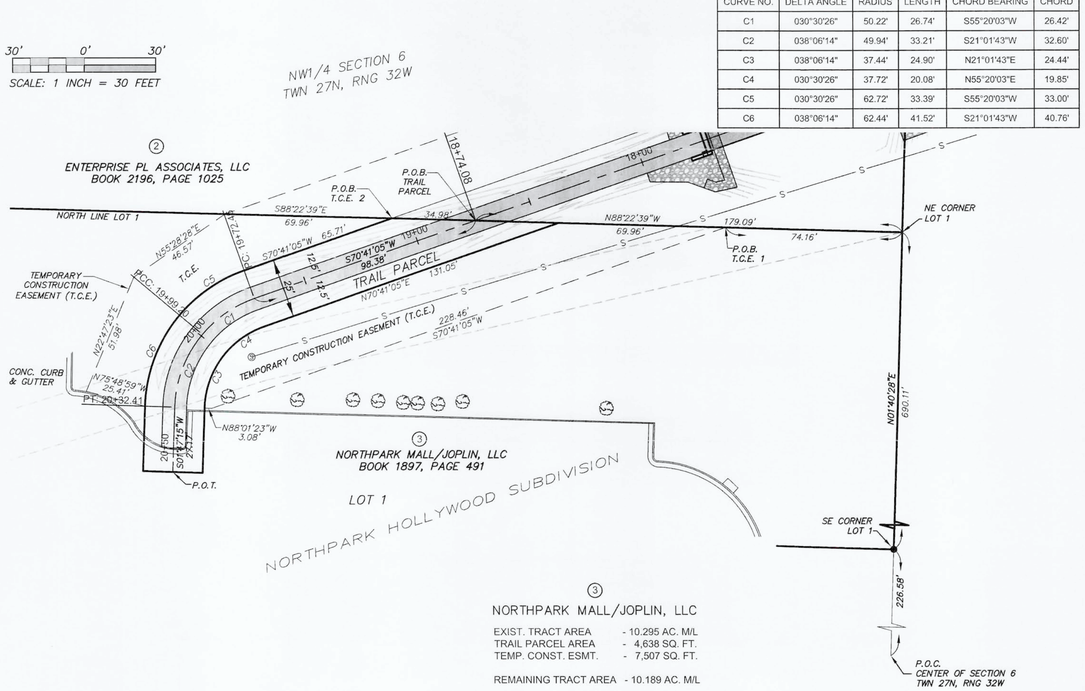
DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
GR-02





Curve Table					
CURVE NO.	DELTA ANGLE	RADIUS	LENGTH	CHORD BEARING	CHORD
C1	18°54'40"	120.00'	39.61'	S85°34'24"W	39.43'
C2	19°13'28"	100.00'	33.55'	S85°43'48"W	33.40'
C3	42°54'37"	120.00'	89.87'	S73°53'14"W	87.79'
C4	18°05'08"	103.99'	32.82'	S61°50'19"W	32.69'
C5	20°10'13"	96.43'	33.95'	S80°58'00"W	33.77'
C6	60°56'50"	50.00'	53.19'	N58°28'28"W	50.71'
C7	41°30'29"	73.92'	53.55'	N48°26'30"W	52.39'
C8	40°07'10"	76.12'	53.30'	N89°15'20"W	52.22'



Curve Table					
CURVE NO.	DELTA ANGLE	RADIUS	LENGTH	CHORD BEARING	CHORD
C1	030°30'26"	50.22'	26.74'	S55°20'03"W	26.42'
C2	038°06'14"	49.94'	33.21'	S21°01'43"W	32.60'
C3	038°06'14"	37.44'	24.90'	N21°01'43"E	24.44'
C4	030°30'26"	37.72'	20.08'	N55°20'03"E	19.85'
C5	030°30'26"	62.72'	33.39'	S55°20'03"W	33.00'
C6	038°06'14"	62.44'	41.52'	S21°01'43"W	40.76'

③ NORTHPARK MALL/JOPLIN, LLC
EXIST. TRACT AREA - 10.295 AC. M/L
TRAIL PARCEL AREA - 4,638 SQ. FT.
TEMP. CONST. ESMT. - 7,507 SQ. FT.
REMAINING TRACT AREA - 10.189 AC. M/L

No.	Revision/Issue	Date

STATE OF MISSOURI
LS-2472
BRIAN D. VIELE
REGISTERED LAND SURVEYOR
3/30/2019

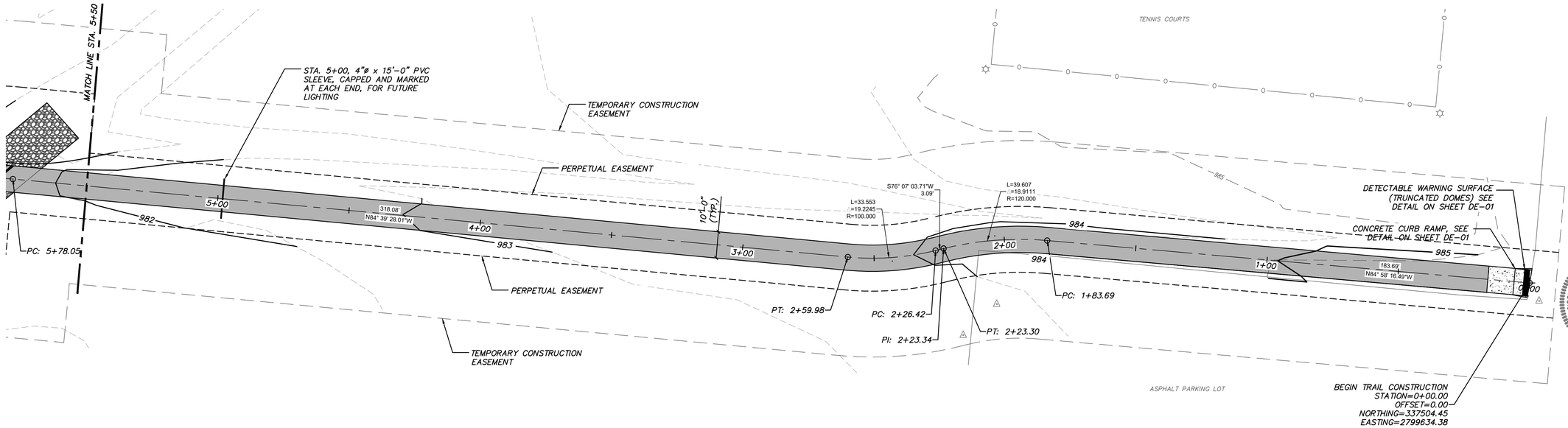
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GREAT RIVER ENGINEERING
2236 S. NATIONAL AVE., SPRINGFIELD, MO 65804
PHONE: (417) 886-7400 FAX: (417) 886-7401
www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2005156885, Land Surveying: 2001011476, Landscape Architecture: 2007013673

CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

RIGHT-OF-WAY PLAN
DETAILS

DATE: 03.30.2017
JOB NUMBER: 13-3249

SHEET
RW1



LEGEND

CONTOUR INTERVAL 1'

= ASPHALT TRAIL (SEE DETAIL, SHEET DE-01)

NOTES:

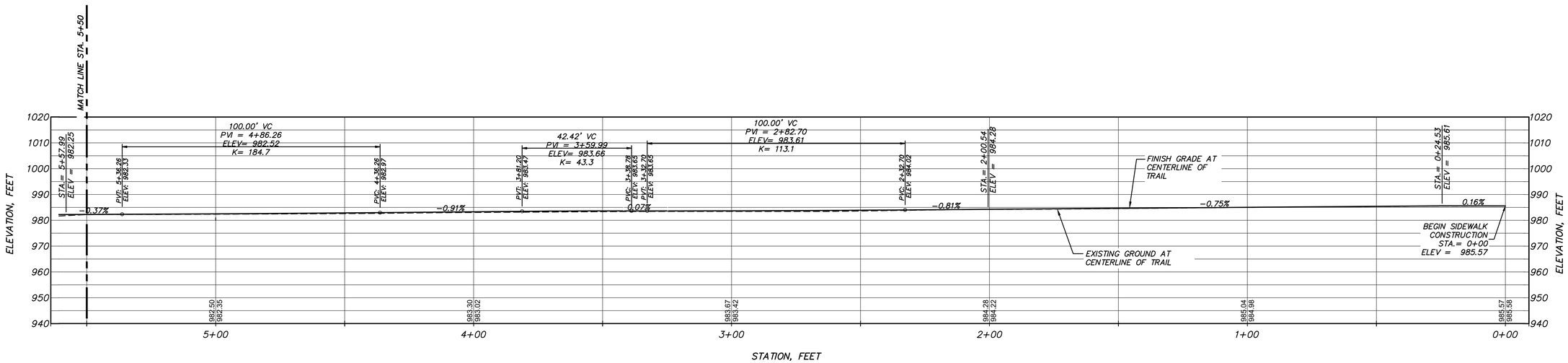
UTILITY NOTE:
UNLESS OTHERWISE SPECIFIED PROTECT IN PLACE ALL UTILITY POLES, RISERS, AND SERVICE RUNS.

TRAIL IS CROWNED TO DRAIN. BACKFILL AT TRAIL EDGE SHOULD BE GRADED TO DRAIN AWAY FROM TRAIL.

TRAIL CROSS SLOPES SHALL BE 1/2% MINIMUM, 1% TYPICAL, AND 2% MAXIMUM WHEN MEASURED WITH A 2' DIGITAL LEVEL.

N

0 20' 40'
SCALE 1 INCH = 20 FEET



20'
10'
0
VERTICAL 1" = 20'
HORIZONTAL 1" = 20'
0 10' 20'

No.	Revision/Issue	Date
1		

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

STATE OF MISSOURI
SPENCER M. JONES
NUMBER E-28070
REGISTERED PROFESSIONAL ENGINEER

JERANY L. JACKSON
MO# LA-000175

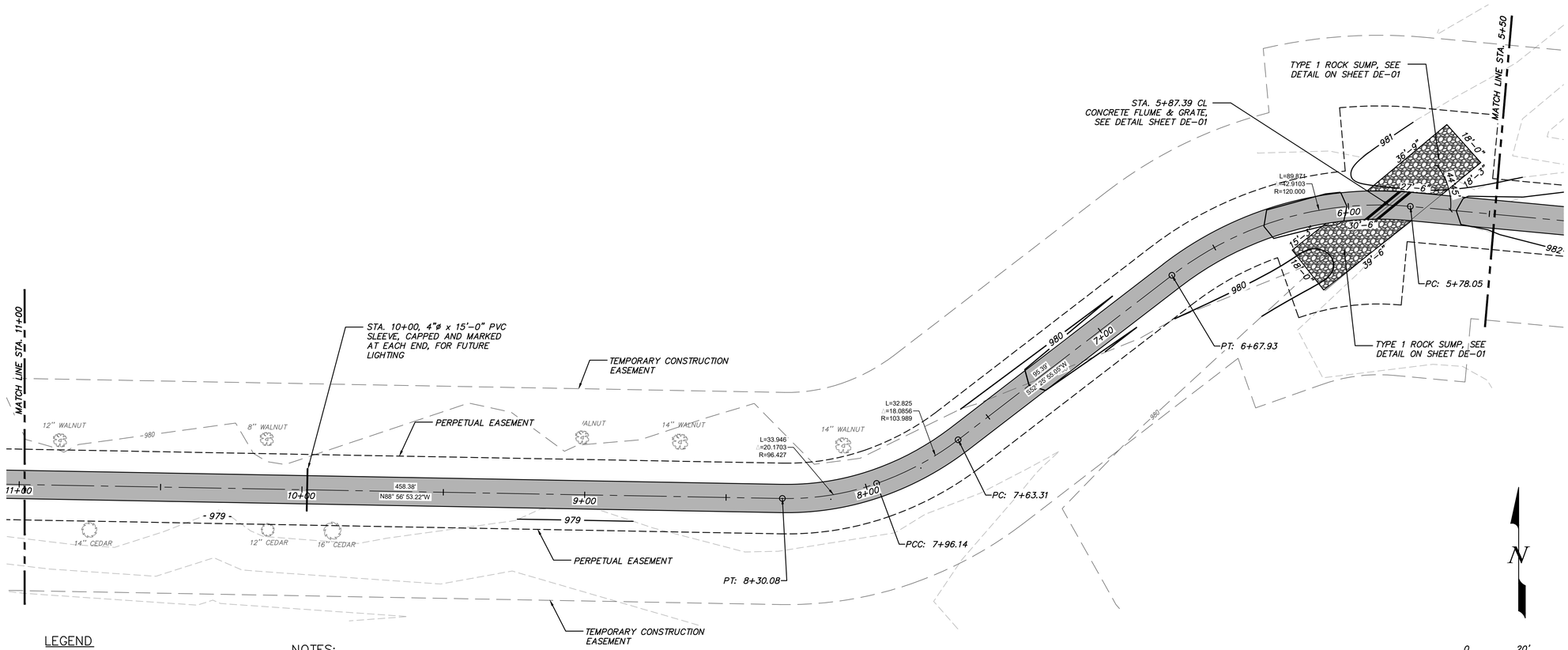
GRE GREAT RIVER ENGINEERING
2636 S. INGRAM MILL, SPRINGFIELD, MO 65804
PHONE: (417) 886-7171 FAX: (417) 886-7591
www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018865; Land Surveying: 2006018743; Landscape Architecture: 2007013673

CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

TRAIL PLAN & PROFILE
STA. 0+00 - STA. 5+50

DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
C-01



LEGEND

CONTOUR INTERVAL 1'

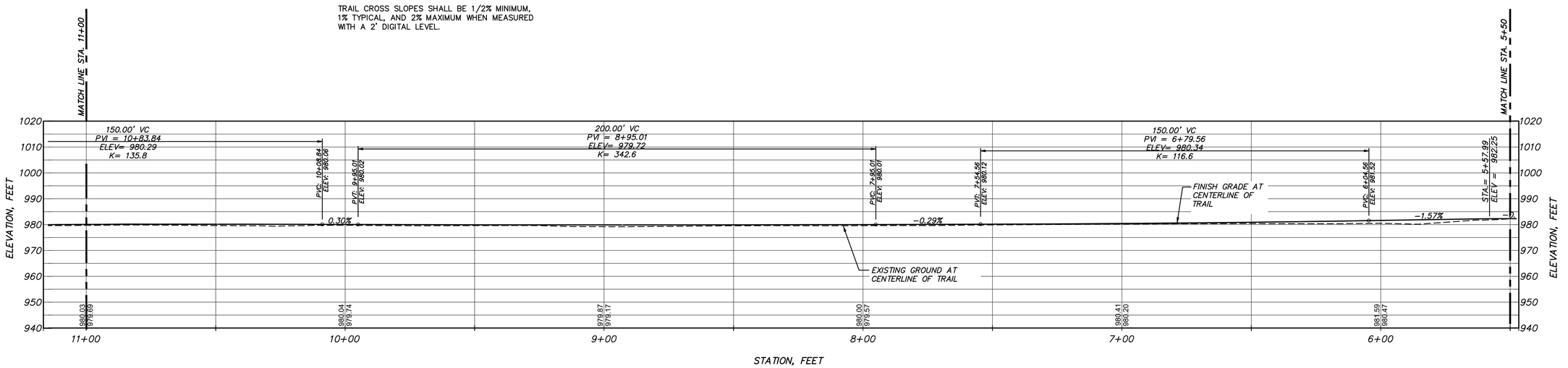
= ASPHALT TRAIL (SEE DETAIL, SHEET DE-01)

NOTES:

UTILITY NOTE:
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TRAIL CROSS SLOPES SHALL BE 1/2% MINIMUM, 1% TYPICAL, AND 2% MAXIMUM WHEN MEASURED WITH A 2' DIGITAL LEVEL.



No.	Revision/Issue	Date

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

STATE OF MISSOURI
SPENCER N. JONES
NUMBER E-28676
REGISTERED PROFESSIONAL ENGINEER

JERANY L. JACKSON
MO# LA-000175

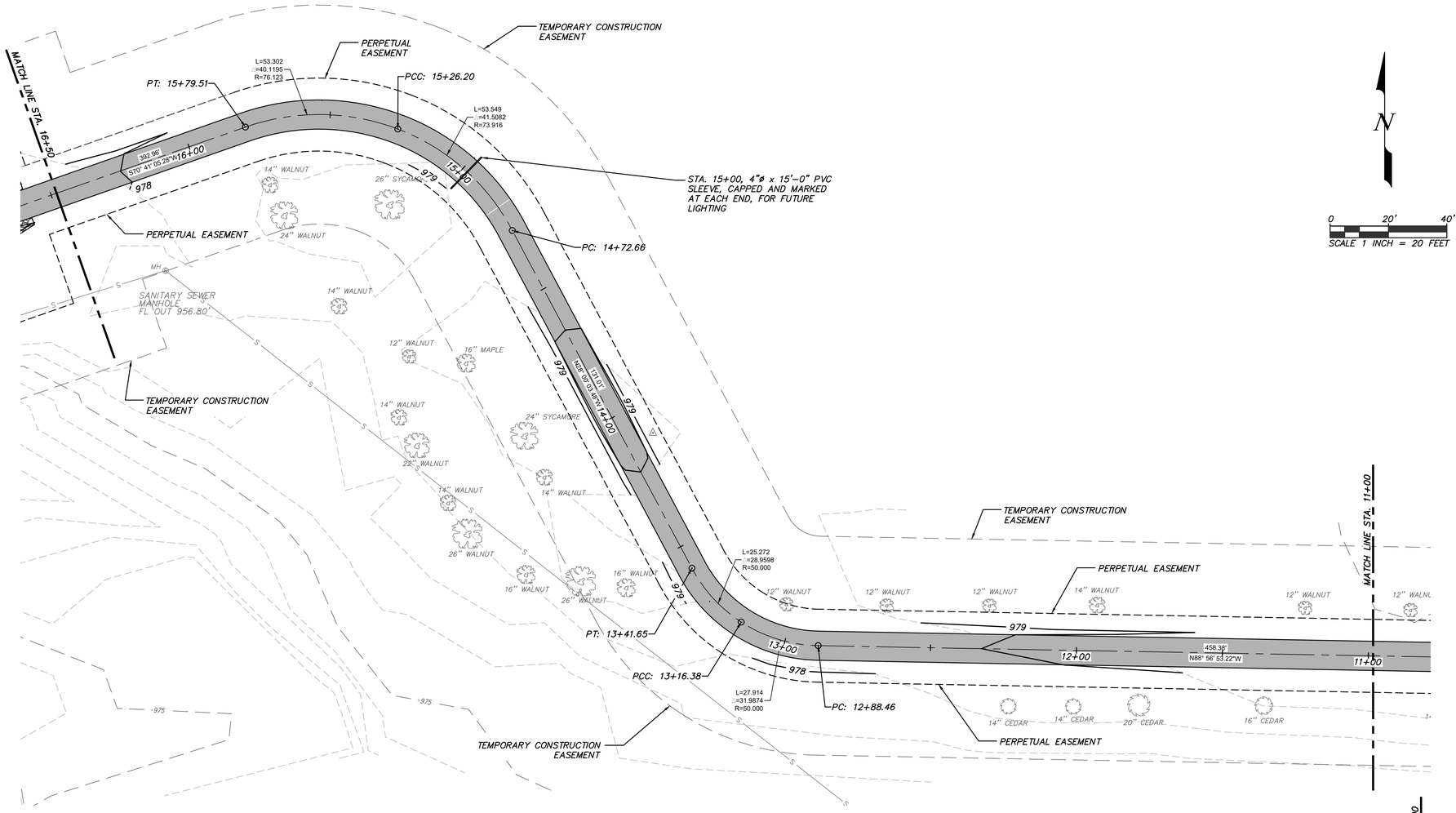
GRE GREAT RIVER ENGINEERING
2526 S. NOPAH MILL SPRINGFIELD, MO 65804
PHONE: (417) 886-7171 FAX: (417) 886-7591
www.greonline.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018865 Land Surveying: 2006018765 Landscape Architecture: 2007013673

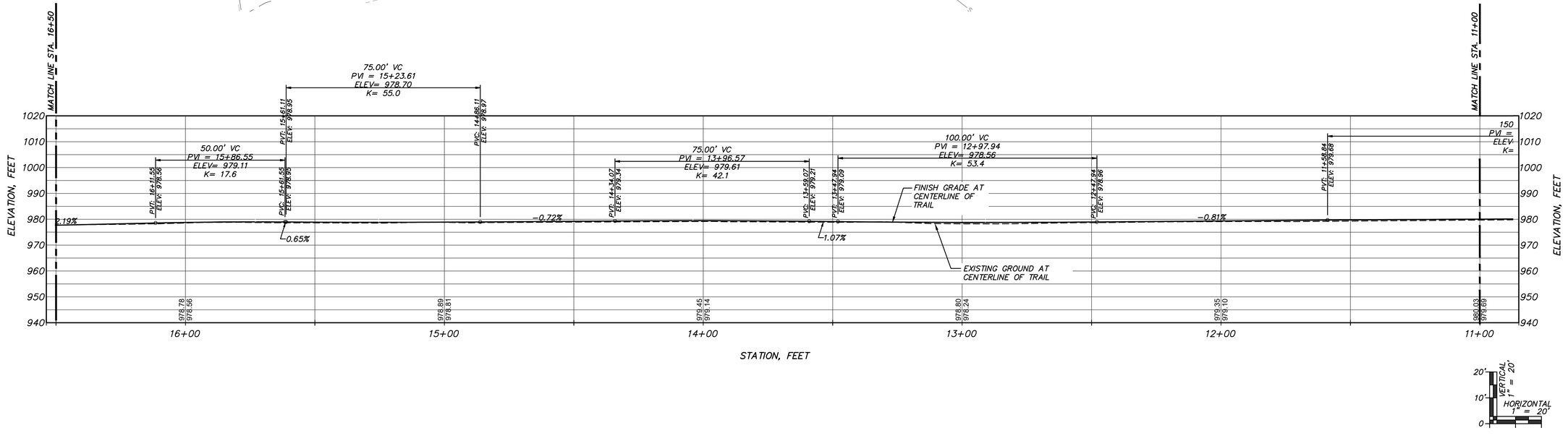
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

TRAIL PLAN & PROFILE
STA. 5+50 - STA. 11+00

DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
C-02





LEGEND

CONTOUR INTERVAL 1'

= ASPHALT TRAIL (SEE DETAIL, SHEET DE-01)

NOTES:

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STATE OF MISSOURI
SPENCER N. JONES
NUMBER E-28676
REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

GRE GREAT RIVER ENGINEERING
2636 S. NOPAH MILL SPRINGFIELD, MO 65804
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Missouri State Certificate of Authority Numbers:
Engineering: 2006018865; Land Surveying: 2006018865; Landscape Architecture: 2007013673

No.	Revision/Issue	Date

CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

TRAIL PLAN & PROFILE
STA. 11+00 - STA. 16+50

DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
C-03

LEGEND

CONTOUR INTERVAL 1'

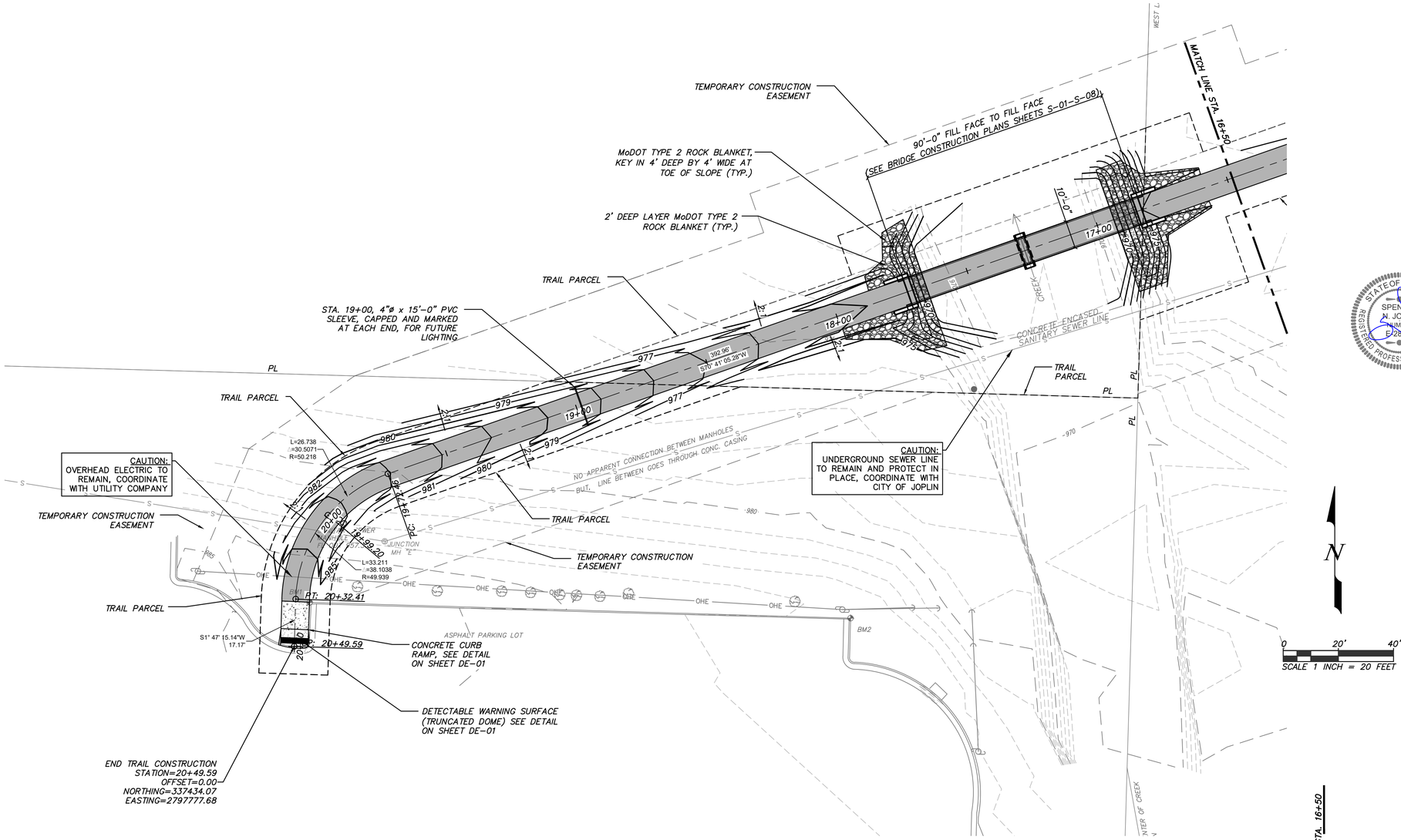
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(SEE DETAIL, SHEET DE-01)

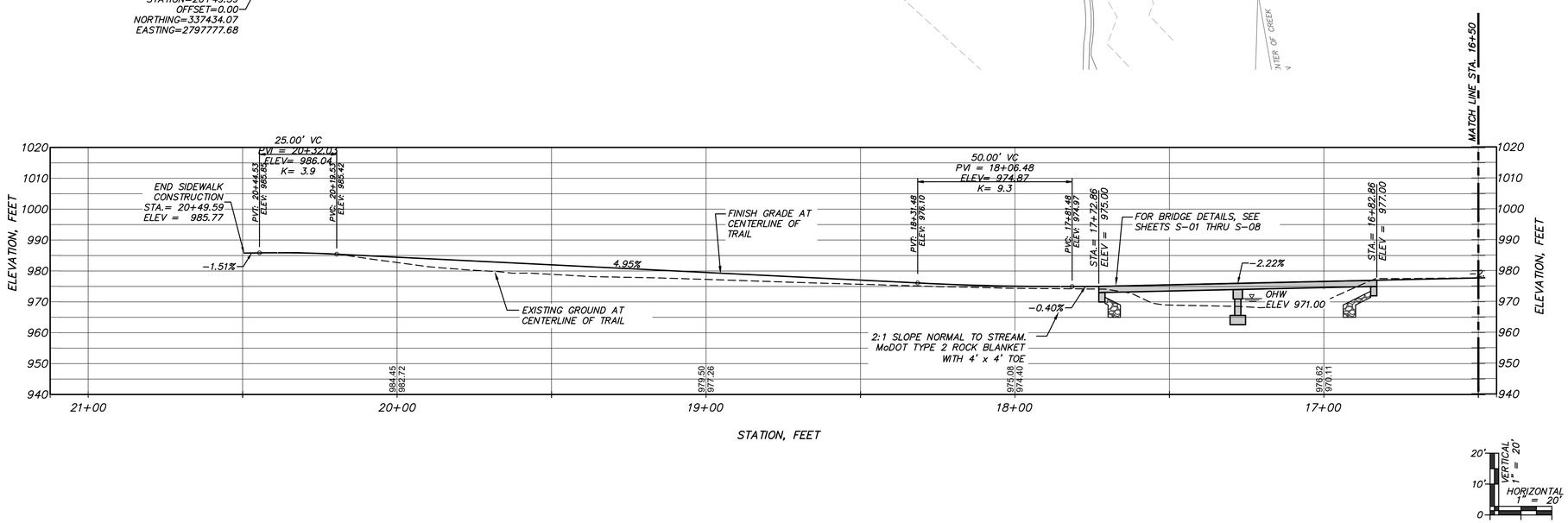
NOTES:

UTILITY NOTE:
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No.	Revision/Issue	Date
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STATE OF MISSOURI
SPENCER N. JONES
NUMBER PE-2006776
REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

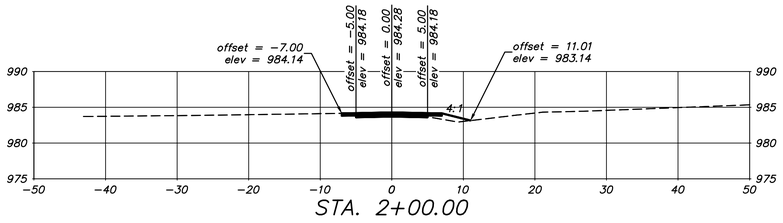
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2636 S. INGRAM MILL, SPRINGFIELD, MO 65804
PHONE: (417) 886-7171 FAX: (417) 886-7591
www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018865 Land Surveying: 2006018761 Landscape Architecture: 2007013673

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JOPLIN, MISSOURI

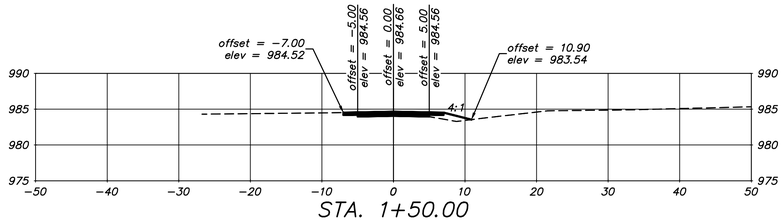
TRAIL PLAN & PROFILE
STA. 16+50 - STA. 20+65.65

DATE: 04.24.2019
JOB NUMBER: 13-3249

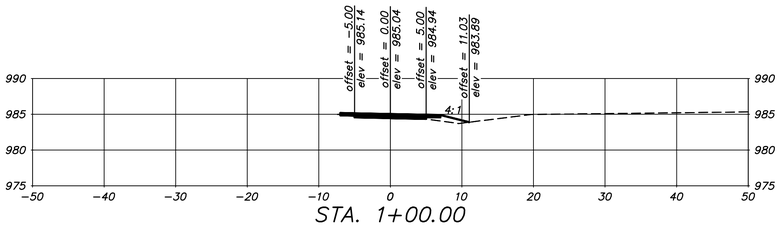
SHEET
C-04



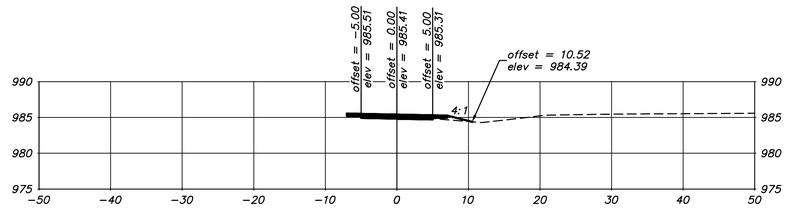
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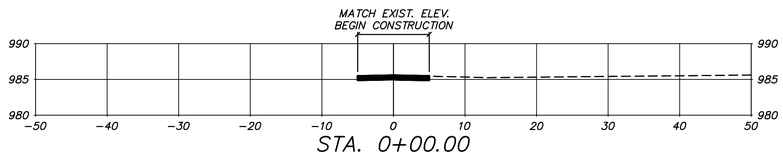
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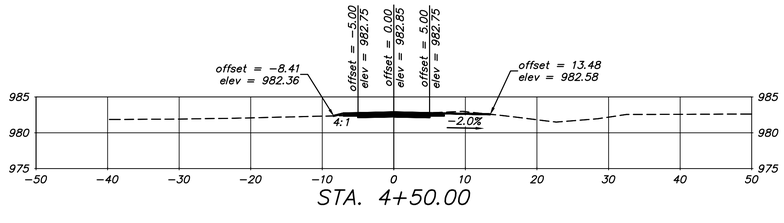
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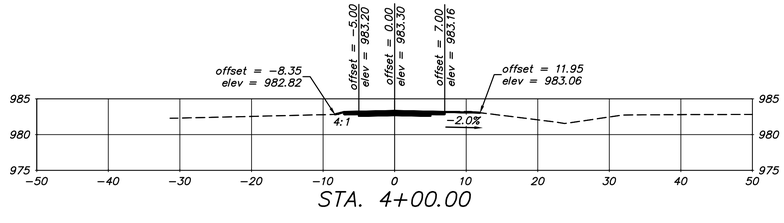
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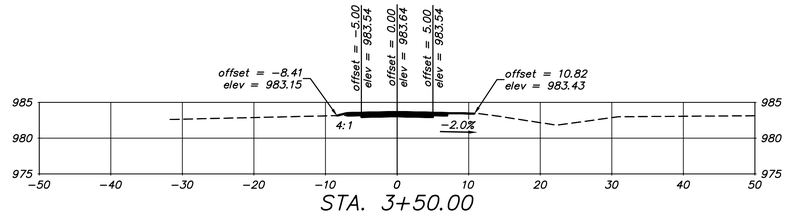
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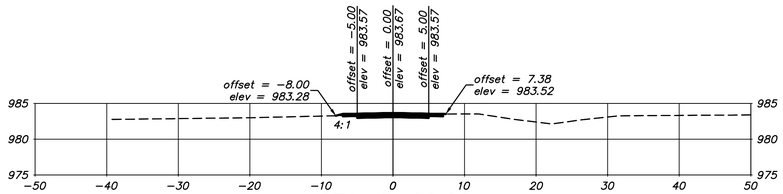
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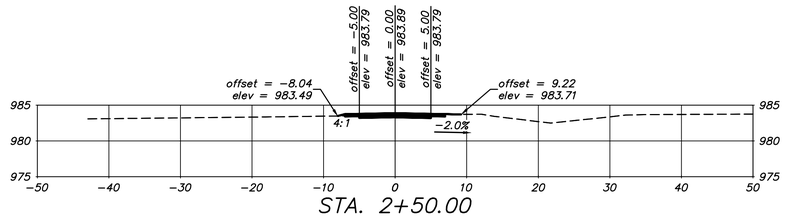
STA. 4+00.00



STA. 3+50.00



STA. 3+00.00



STA. 2+50.00

0 10' 20'

SCALE 1 INCH = 10 FEET

No.	Revision/Issue	Date
1		
2		
3		
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5		
6		
7		

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
SPENCER N. JONES
NUMBER E-26878

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

GRE GREAT RIVER ENGINEERING
2636 S. NOPAH MILL SPRINGFIELD, MO 65804
PHONE: (417) 886-7171 FAX: (417) 886-7591
www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2004018965; Land Surveying: 2004018743; Landscape Architecture: 2007013673

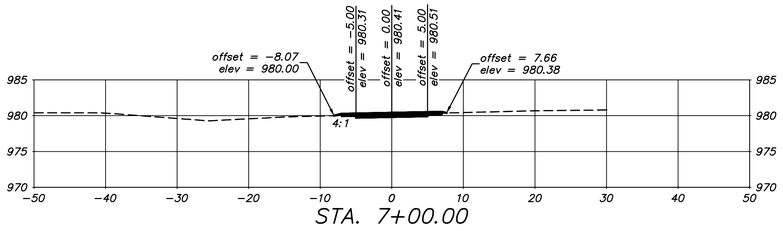
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

CROSS SECTION
STA. 0+00 - STA. 4+50

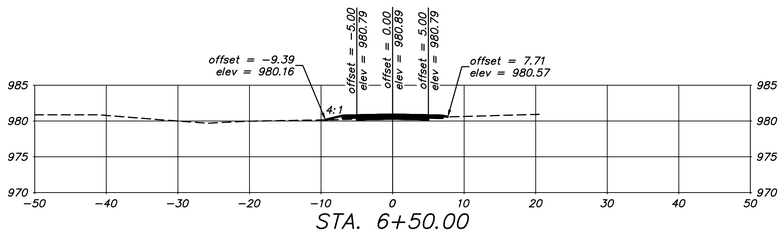
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JOB NUMBER: 13-3249

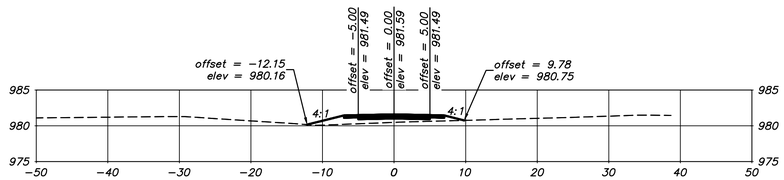
SHEET
CS-01



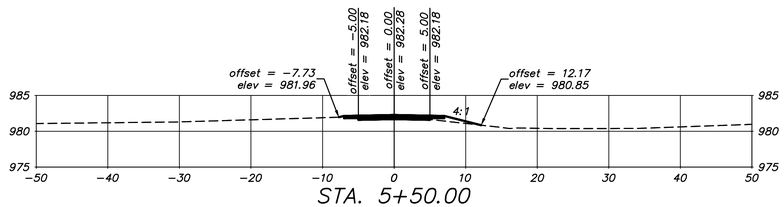
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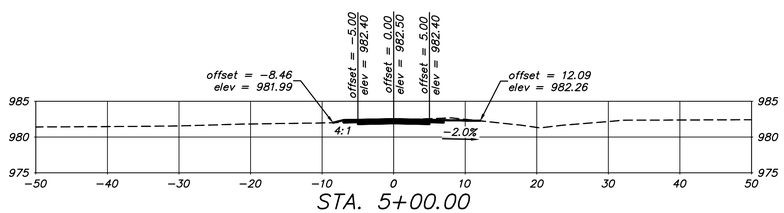
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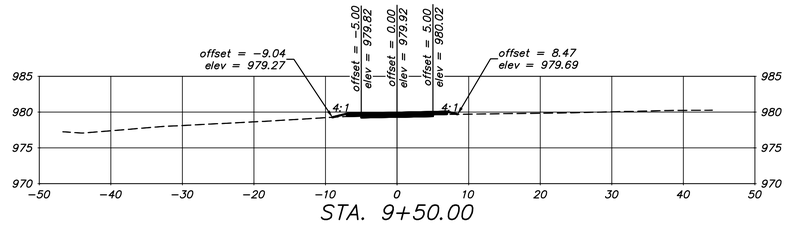
STA. 6+00.00



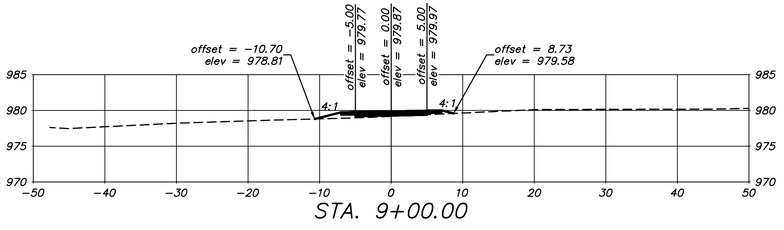
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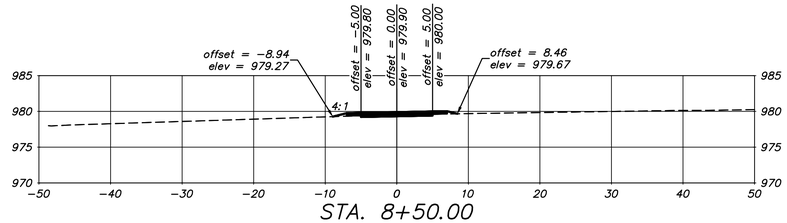
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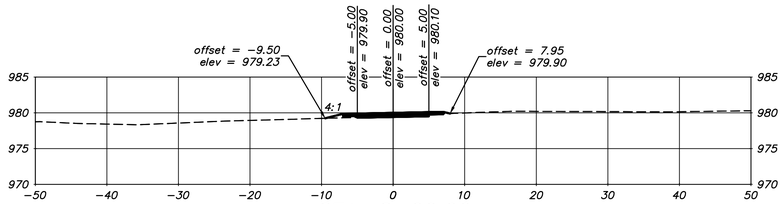
STA. 9+50.00



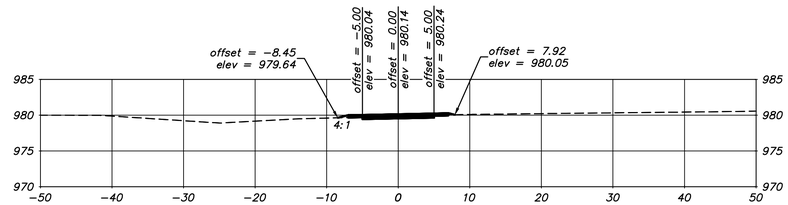
STA. 9+00.00



STA. 8+50.00



STA. 8+00.00



STA. 7+50.00

0 10' 20'

SCALE 1 INCH = 10 FEET

No.	Revision/Issue	Date

STATE OF MISSOURI
SPENCER
AJONES
NUMBER
E-28078

STATE OF MISSOURI
JERANY L
JACKSON
NUMBER
LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

GRE
GREAT RIVER ENGINEERING
2535 S. NOAH MILL SPRINGFIELD, MO 65804
PHONE: (417) 888-7171 FAX: (417) 888-7591
www.greotfm.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018665; Land Surveying: 2006018674; Landscape Architecture: 2007013673

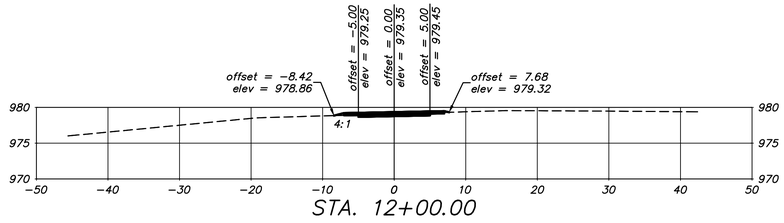
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

CROSS SECTION
STA. 5+00 - STA. 9+50

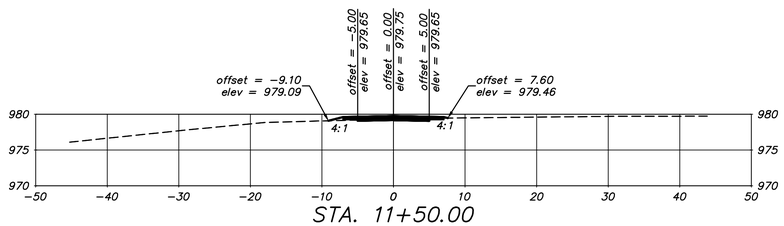
DATE: 04.24.2019

JOB NUMBER: 13-3249

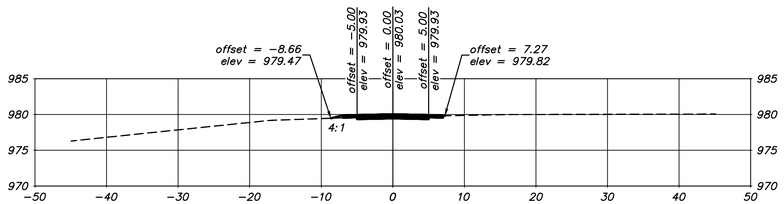
SHEET
CS-02



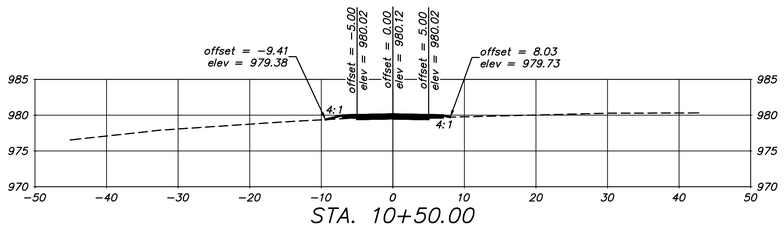
STA. 12+00.00



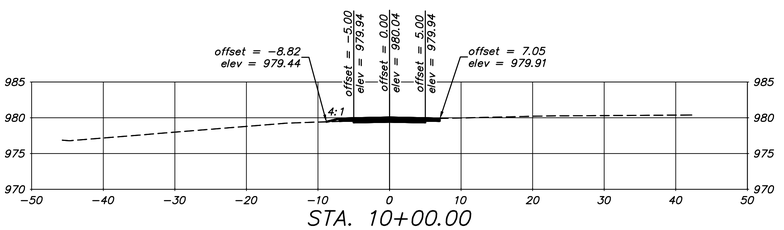
STA. 11+50.00



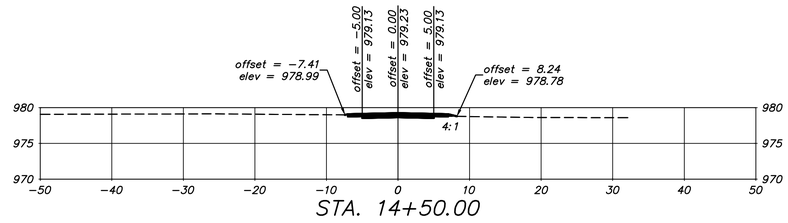
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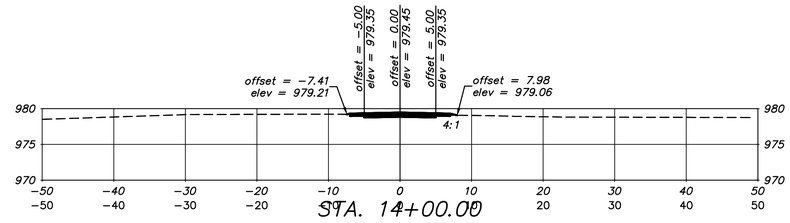
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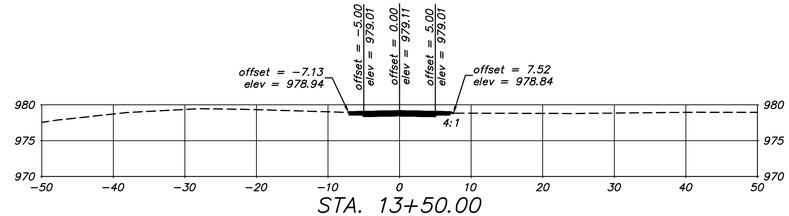
STA. 10+00.00



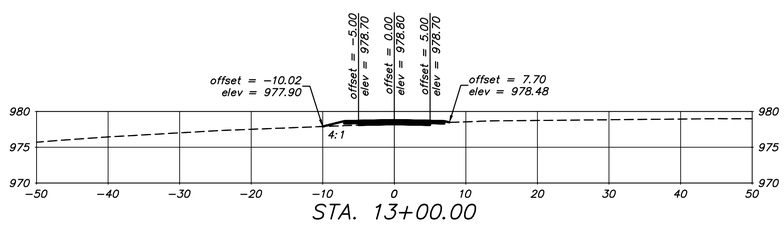
STA. 14+50.00



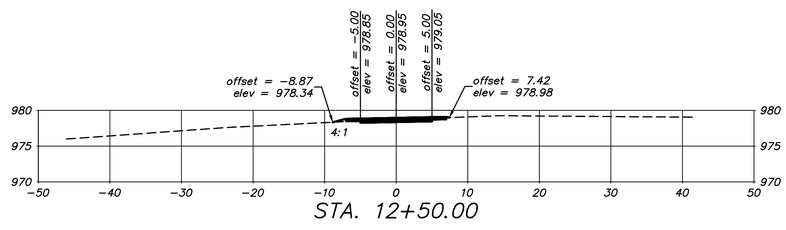
STA. 14+00.00



STA. 13+50.00



STA. 13+00.00



STA. 12+50.00

0 10' 20'

SCALE 1 INCH = 10 FEET

No.	Revision/Issue	Date

STATE OF MISSOURI
SPENCER N. JONES
NUMBER E-28676
REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI
JERANY L JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

GRE GREAT RIVER ENGINEERING
2535 S. NOPAH MILL SPRINGFIELD, MO 65804
PHONE: (417) 888-7171 FAX: (417) 888-7591
www.greotfm.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018865; Land Surveying: 2006018743; Landscape Architecture: 2007013673

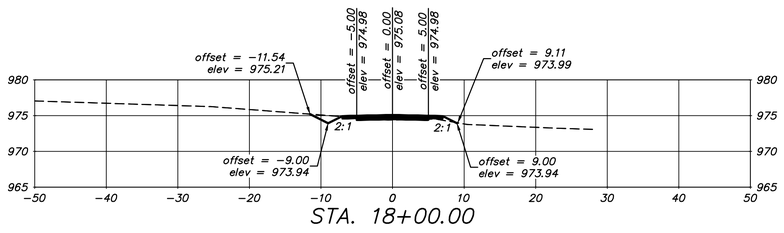
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

CROSS SECTION
STA. 5+50 - STA. 14+50

DATE: 04.24.2019

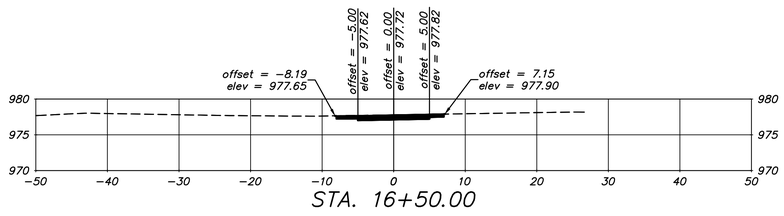
JOB NUMBER: 13-3249

SHEET
CS-03

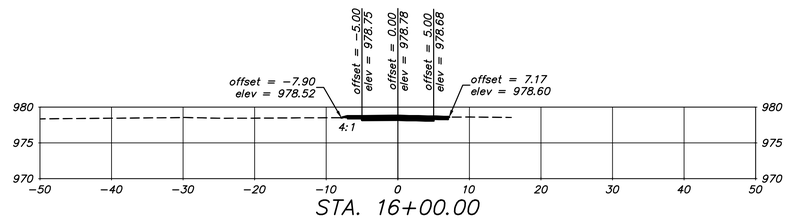


STA. 18+00.00

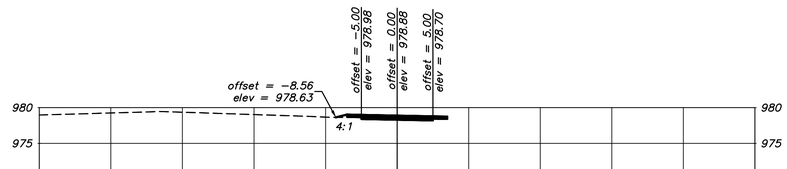
STA. 17+00 THRU 17+50 NOT SHOWN IN LOCATION OF BRIDGE



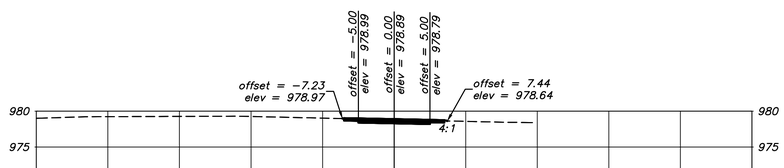
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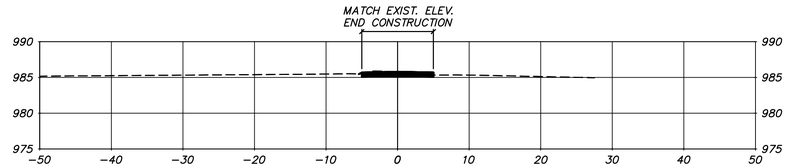
STA. 16+00.00



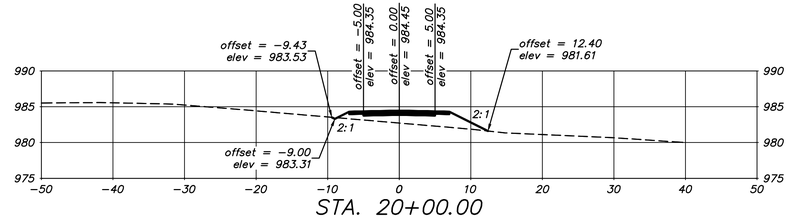
STA. 15+50.00



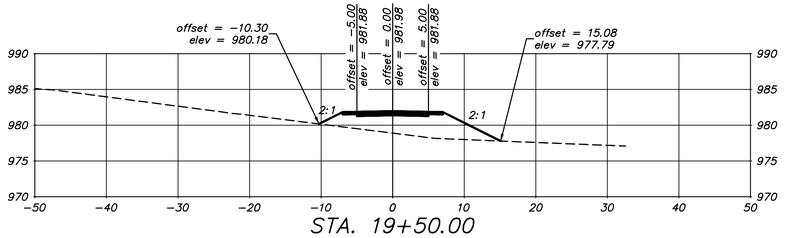
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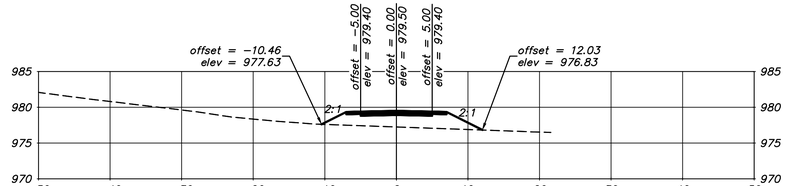
STA. 20+49.59



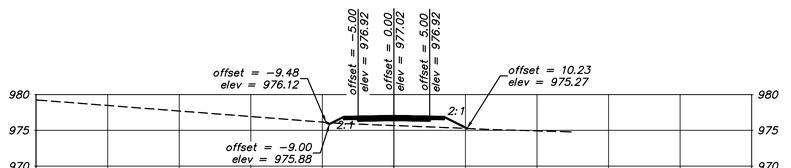
STA. 20+00.00



STA. 19+50.00



STA. 19+00.00



STA. 18+50.00

0 10' 20'

SCALE 1 INCH = 10 FEET

STATE OF MISSOURI
SPENCER N. JONES
NUMBER
PE-2007676
REGISTERED PROFESSIONAL ENGINEER

STATE OF MISSOURI
JERANY L JACKSON
NUMBER
LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

GRE GREAT RIVER ENGINEERING
2636 S. NOPAH MILL SPRINGFIELD, MO 65804
PHONE: (417) 888-7171 FAX: (417) 888-7591
www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018565; Land Surveying: 2006018565; Landscape Architecture: 2007013673

No.	Revision/Issue	Date
1		
2		
3		
4		
5		
6		

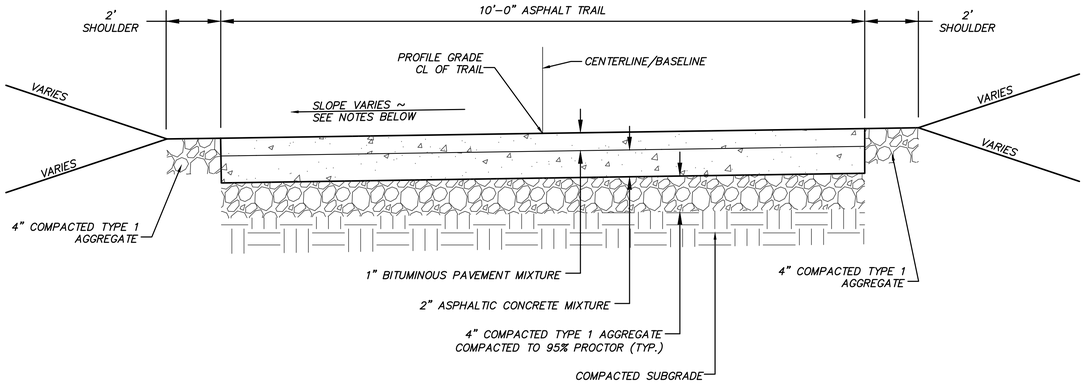
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

CROSS SECTION
STA. 15+00 - STA. 20+65.65

DATE: 04.24.2019

JOB NUMBER: 13-3249

SHEET
CS-04

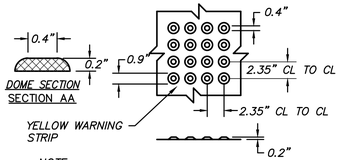


TRAIL CROSS SLOPE NOTES:

1. TRAIL CROSS SLOPES SHALL BE 1/2% MINIMUM, 1% TYPICAL, AND 2% MAXIMUM WHEN MEASURED WITH A 2' DIGITAL LEVEL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ANY NON-ADA COMPLIANT SECTIONS.

10' ASPHALT TRAIL

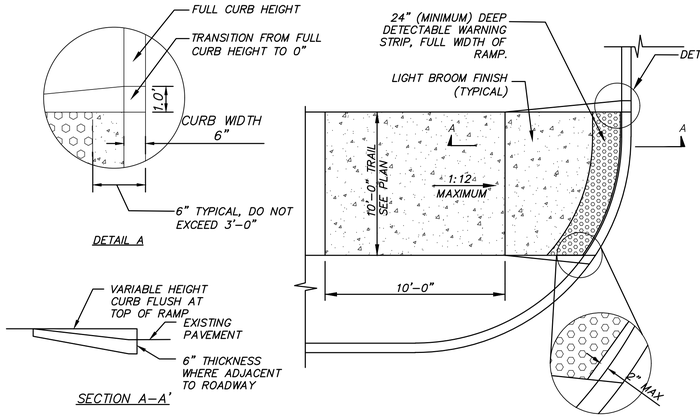
DO NOT SCALE



NOTE:
DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

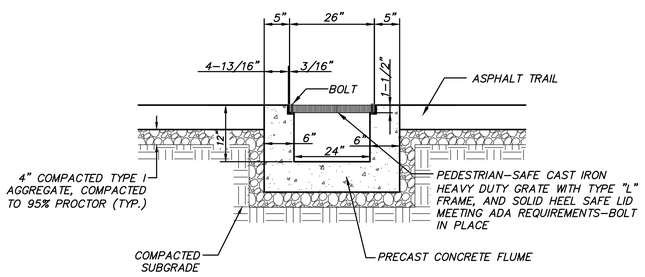
TRUNCATED DOME SIZE AND SPACING

NOT TO SCALE



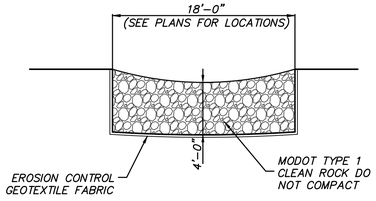
PERPENDICULAR CURB RAMP

NOT TO SCALE



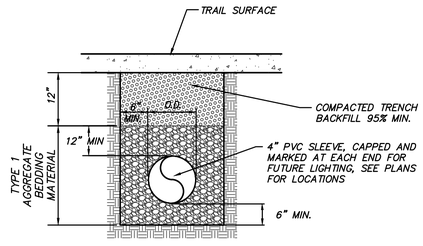
CONCRETE FLUME & GRATE DETAIL

DO NOT SCALE



TYPE 1 ROCK SUMP DETAIL

DO NOT SCALE



PVC SLEEVE DETAIL

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
SPENCER N. JONES
NUMBER E-28676

STATE OF MISSOURI
JERANY L. JACKSON
NUMBER LA-000175
LANDSCAPE ARCHITECT
5-15-19

JERANY L. JACKSON
MO# LA-000175

No.	Revision/Issue	Date

GRE GREAT RIVER ENGINEERING
2636 S. NOAH MILL SPRINGFIELD, MO 65804
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www.greatriv.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018865; Land Surveying: 2006018744; Landscape Architecture: 2007013673

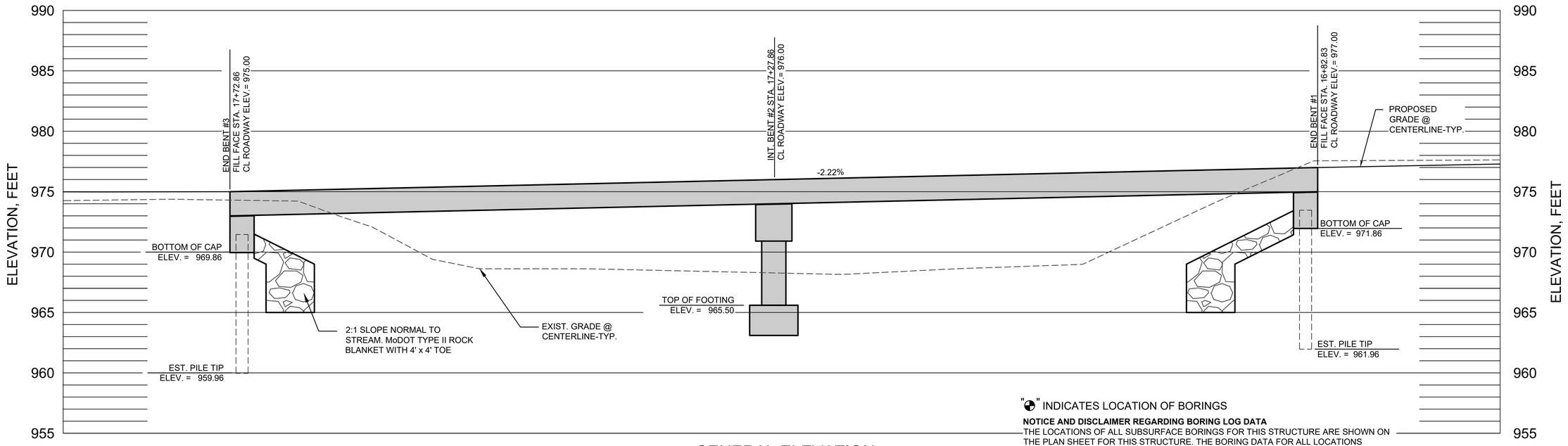
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

CONSTRUCTION DETAILS

DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
DE-01

SLAB BEAM BRIDGE
2 SPAN ARRANGEMENT 45'-0" - 45'-0"



GENERAL ELEVATION
ALONG CENTERLINE OF ROADWAY
1"=50' HOR. 1"=10' VERT.

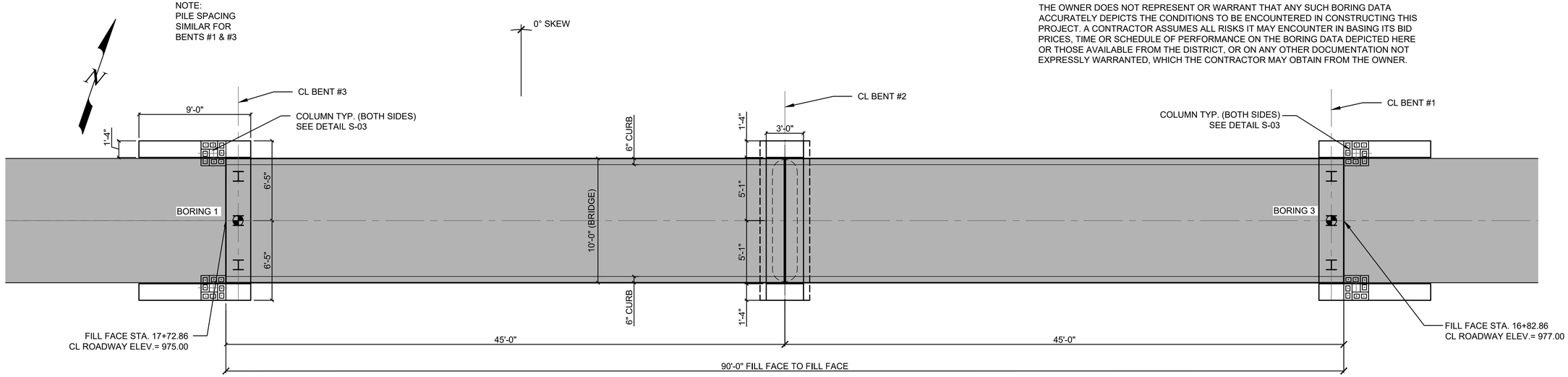
"◔" INDICATES LOCATION OF BORINGS

NOTICE AND DISCLAIMER REGARDING BORING LOG DATA

THE LOCATIONS OF ALL SUBSURFACE BORINGS FOR THIS STRUCTURE ARE SHOWN ON THE PLAN SHEET FOR THIS STRUCTURE. THE BORING DATA FOR ALL LOCATIONS INDICATED, AS WELL AS ANY OTHER BORING LOG OR OTHER FACTUAL RECORDS OF SUBSURFACE DATA AND INVESTIGATION PERFORMED FOR THE DESIGN OF THE PROJECT, ARE SHOWN ON THE BORING DATA SHEET OR WILL BE AVAILABLE FROM THE PROJECT CONTACT UPON WRITTEN REQUEST. NO GREATER SIGNIFICANCE OR WEIGHT SHOULD BE GIVEN TO THE BORING DATA DEPICTED ON THE PLAN SHEETS THAN IS GIVEN TO THE SUBSURFACE DATA AVAILABLE FROM THE OWNER OR ELSEWHERE.

THE OWNER DOES NOT REPRESENT OR WARRANT THAT ANY SUCH BORING DATA ACCURATELY DEPICTS THE CONDITIONS TO BE ENCOUNTERED IN CONSTRUCTING THIS PROJECT. A CONTRACTOR ASSUMES ALL RISKS IT MAY ENCOUNTER IN BASING ITS BID PRICES, TIME OR SCHEDULE OF PERFORMANCE ON THE BORING DATA DEPICTED HERE OR THOSE AVAILABLE FROM THE DISTRICT, OR ON ANY OTHER DOCUMENTATION NOT EXPRESSLY WARRANTED, WHICH THE CONTRACTOR MAY OBTAIN FROM THE OWNER.

NOTE:
PILE SPACING
SIMILAR FOR
BENTS #1 & #3



PLAN VIEW
SCALE: 1"=50'

MANUFACTURED PILE POINT REINFORCEMENT & BITUMINOUS COATING SHALL BE USED ON ALL PILES IN THIS STRUCTURE.

MINIMUM ENERGY REQUIRED OF HAMMER IS BASED ON PLAN LENGTH AND MINIMUM NOMINAL AXIAL COMPRESSIVE RESISTANCE.

DF = FHWA-MODIFIED GATES DYNAMIC FORMULA

MINIMUM NOMINAL AXIAL COMPRESSIVE RESISTANCE = MAXIMUM FACTORED LOADS/0.4

PILE AND FOOTING DATA

BENT NO.			1	2	3
LOAD BEARING PILE	PILE TYPE AND SIZE		HP10x42		HP10x42
	NUMBER		3		3
	APPROXIMATE LENGTH PER EACH	FT	11.5		11.5
	PILE DRIVING VERIFICATION METHOD		DF		DF
	MINIMUM NOMINAL AXIAL COMPRESSIVE RESISTANCE	KIP	211		211
	HAMMER ENERGY REQUIRED	FT-LB	6,790		6,790
	PRE-BORE LENGTH PER EACH	FT	10		10
SPREAD FOOTINGS	FOUNDATION MATERIAL			ROCK	
	DESIGN BEARING (K/SQ. FT.)			15	

HYDRAULIC SUMMARY DATA TABLE

DESIGN FLOOD DATA	
DRAINAGE AREA	22 SQ. MI.
DESIGN FREQUENCY	5 YR
DESIGN DISCHARGE	2287 CFS
DESIGN HIGH WATER ELEVATION AT STRUCTURE	975.61 FEET
100 YEAR DISCHARGE	7770 CFS
100 YEAR HIGH WATER ELEVATION AT STRUCTURE	979.15 FEET
100 YEAR BACKWATER	0.6 FEET
APPROACH ROADWAY OVERTOPPING FREQUENCY	5 YR.

Date
Revision/Issue
No.

STATE OF MISSOURI
SPENCER N. JONES
NUMBER PE-28676
REGISTERED PROFESSIONAL ENGINEER

SPENCER N. JONES - ENGINEER
MO# PE-28676

GRE GREAT RIVER ENGINEERING
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PHONE: (417) 888-7171 FAX: (417) 888-7591
www.greatriveng.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018985; Land Surveying: 2006018743; Landscape Architecture: 2007013673

CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

BRIDGE PLAN & ELEVATION DETAILS

DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
S-01

4168 W. Kearney St.
Springfield, MO 65803
Telephone: (417) 864-6000
Fax: (417) 864-6004

GEOTECHNICAL BORING LOG

BORING NUMBER 1

PAGE 1 OF 1

CLIENT Great River Engineering
PROJECT NAME MSSU Trail & Pedestrian Bridge over Turkey Creek
PROJECT NO. 239640
PROJECT LOCATION Joplin, MO
DATE STARTED 11/21/16 **COMPLETED** 11/21/16 **SURFACE ELEVATION** 974.12 ft **BENCHMARK EL.**
DRILLER MR **DRILL RIG** CME-550X **GROUND WATER LEVELS**
HAMMER TYPE Auto **AT TIME OF DRILLING** 6.5 ft
LOGGED BY BC **CHECKED BY** AM **AT END OF DRILLING**
NOTES

DEPTH (ft)	DRILLING METHOD	STRATA SYMBOL	MATERIAL DESCRIPTION Unified Soil Classification System	SAMPLE TYPE NUMBER	RECOVERY % (RQD %)	CORRECTED BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT (pcf) / N VALUE / PL MC LL / SHEAR STRENGTH (ksf)	ELEVATION (ft)
0.0	CFA - 4.5" O.D.		LEAN CLAY, Grass Covered, w/ Chert and Limestone Gravel and Cobbles, Brown, Hard, Moist (CL)	SPT 1		7-22-16 (38)			974.12
2.5			- w/ Chert Sand and Stiff below 2.5'						972.5
				SPT 2		4-3-6 (9)			
5.0			CLAYEY CHERT GRAVEL, w/ Sand, Red Brown, Very Moist to Wet, Medium Dense, Very Moist to Wet (GC)	5.0 ft					970.0
				SPT 3		7-14-22 (36)			
7.5			CHERT GRAVEL & COBBLES, Dense, Wet	7.0 ft					967.5
				8.3 ft					
			LIMESTONE, Weathered	8.5 ft					
10.0	CORE BARREL - 2.0" I.D. NQ		LIMESTONE, Microcrystalline, Light Brown to Light Gray to White, Moderately Hard, Thin to Medium Bedded, Fractured, Slightly Weathered, Scattered Brachiopod and Crinoid Fossils	NQ 1	100 (69)				965.0
			- Scattered Stylolites below 10.8'						
12.5			- Relatively Unweathered below 12.6'						962.5
				NQ 2	100 (61)				
				14.0 ft					

Refusal at 8.5 feet.
Bottom of borehole at 14.0 feet.

4168 W. Kearney St.
Springfield, MO 65803
Telephone: (417) 864-6000
Fax: (417) 864-6004

GEOTECHNICAL BORING LOG

BORING NUMBER 3

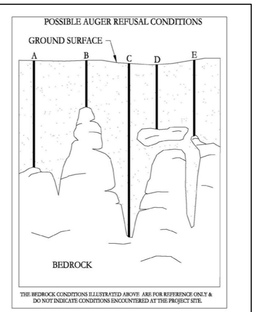
PAGE 1 OF 1

CLIENT Great River Engineering
PROJECT NAME MSSU Trail & Pedestrian Bridge over Turkey Creek
PROJECT NO. 239640
PROJECT LOCATION Joplin, MO
DATE STARTED 11/21/16 **COMPLETED** 11/21/16 **SURFACE ELEVATION** 977.33 ft **BENCHMARK EL.**
DRILLER MR **DRILL RIG** CME-550X **GROUND WATER LEVELS**
HAMMER TYPE Auto **AT TIME OF DRILLING** 7.8 ft
LOGGED BY BC **CHECKED BY** AM **AT END OF DRILLING**
NOTES

DEPTH (ft)	DRILLING METHOD	STRATA SYMBOL	MATERIAL DESCRIPTION Unified Soil Classification System	SAMPLE TYPE NUMBER	RECOVERY % (RQD %)	CORRECTED BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT (pcf) / N VALUE / PL MC LL / SHEAR STRENGTH (ksf)	ELEVATION (ft)
0.0	CFA - 4.5" O.D.		LEAN CLAY, Grass Covered, w/ Chert Sand, Gravel, and Cobbles, Brown, Soft, Moist (CL)	SPT 1		10-3-1 (4)			977.33
2.5				3.0 ft					975.0
			LEAN CLAY, w/ Chert Gravel, Red Brown, Medium Stiff, Moist (CL)	SPT 2		3-3-3 (6)			
5.0				5.0 ft					972.5
			FAT CLAY, Dark Gray, Stiff, Moist (CH)	ST 1	100		1.25		
7.5				7.0 ft					970.0
			CHERT GRAVEL & COBBLES, w/ Silt, Medium Dense, Wet						
10.0				SPT 3		14-9-12 (21)			967.5
				11.7 ft					
			LIMESTONE, Weathered	11.8 ft					
				SPT 4		72/0"			

Refusal at 11.8 feet.
Bottom of borehole at 11.8 feet.

Auger refusal is defined as the depth below the ground surface at which a boring can no longer be advanced with the soil drilling technique being used. Auger refusal is subjective and is based upon the type of drilling equipment and types of augers being used, as well as the effort exerted by the driller. Several different auger refusal conditions are possible in the general site area. These conditions are represented graphically in the adjacent figure: (A) on the upper surface of continuous bedrock, (B) on rock "pinnacles", (C) in widened joints that may extend well below the surrounding bedrock surface, (D) slabs of unweathered rock suspended in the residual soil matrix, or "floaters", or (E) on the upper surface of discontinuous bedrock.



NOTE:
FOR LOCATION OF BORINGS, SEE BRIDGE PLAN AND ELEVATION SHEET.

No.	Revision/Issue	Date

STATE OF MISSOURI
SPENCER N. JONES
NUMBER PE-28676
REGISTERED PROFESSIONAL ENGINEER

SPENCER N. JONES - ENGINEER
MO# PE-28676

GRE GREAT RIVER ENGINEERING
2535 S. NORTH WILL, SPRINGFIELD, MO 65804
PHONE: (417) 888-7171 FAX: (417) 888-7591
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Missouri State Certificate of Authority Numbers:
Engineering: 2006018865 Land Surveying: 2006018865 Landscape Architecture: 2007013673

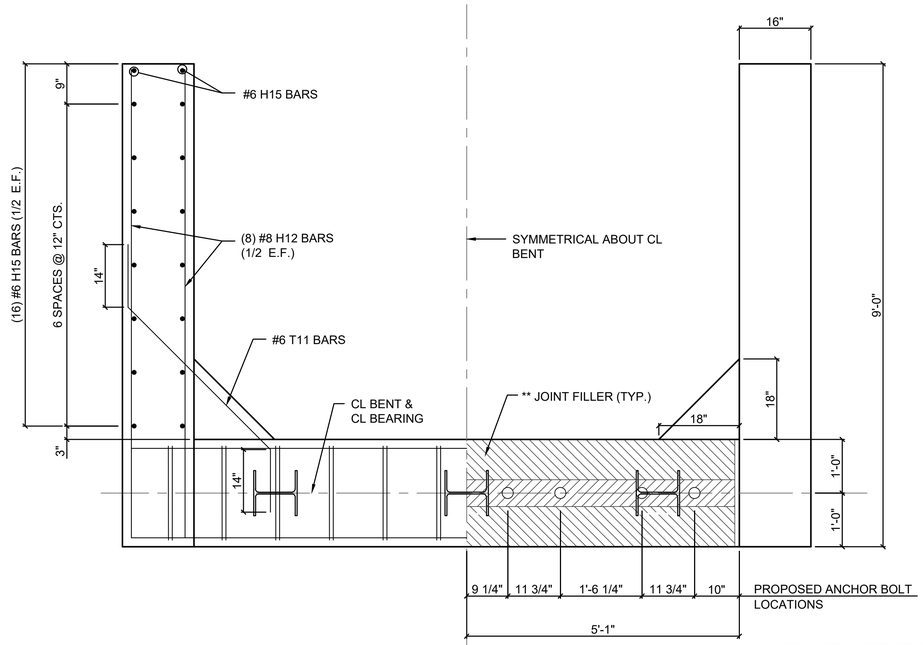
CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

SOIL DATA

DATE: 04.24.2019

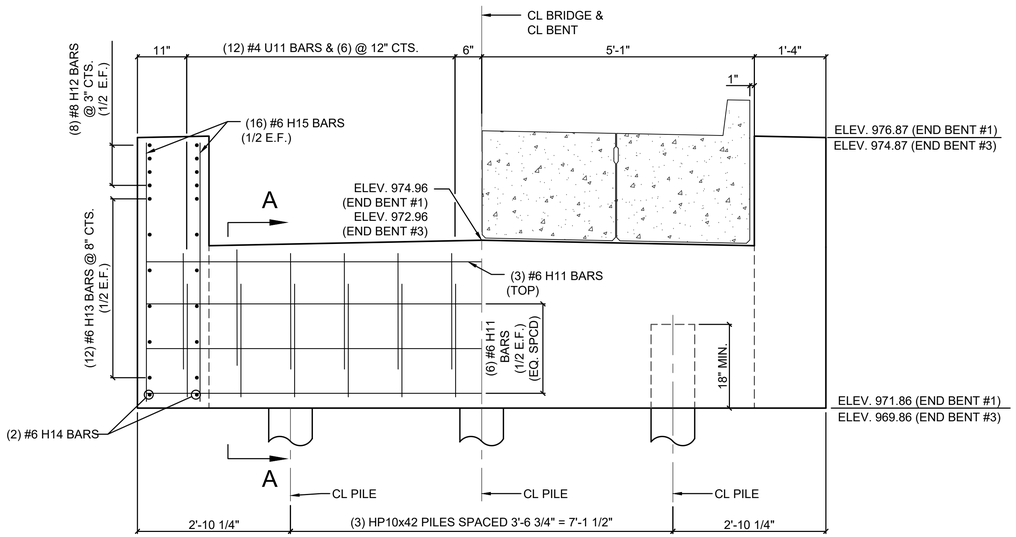
JOB NUMBER: 13-3249

SHEET
S-02



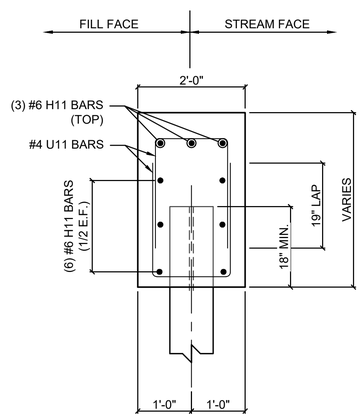
PLAN BENT ELEVATION VIEW

** FILL AREA UNDER BEAMS WITH JOINT FILLER, TO BE SUPPLIED BY CONTRACTOR. JOINT FILLER MUST BE IN PLACE PRIOR TO SETTING BEAMS.



END BENT ELEVATION VIEW

(ELEVATIONS @ FILL FACE)



SECTION A-A

NOTES:

SECTIONS A-A IS TAKEN NORMAL TO CENTERLINE OF BENT.

SEE BRIDGE BILL OF REINFORCING STEEL SHEET FOR BAR DETAILS.

ALL U-BARS AND V-BAR PAIRS IN END BENT ARE TO BE PLACED PARALLEL TO CL OF TRAIL.

FOR LOCATION OF ANCHOR BOLTS AND DETAILS, SEE BRIDGE SLAB BEAM DETAILS SHEETS.

LABELS FOR REINFORCING STEEL ARE SHOWN FOR BENT #1. BENT #3 IS IDENTICAL EXCEPT FOR THE FIRST NUMBER OF THE BAR LABEL.
EXAMPLE: #6 V11 BARS = BENT #1
#6 V31 BARS = BENT #3

E.F. EACH FACE

No.	Revision/Issue	Date

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NUMBER E-28676
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SPENCER N. JONES - ENGINEER
MO# PE-28676

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Engineering: 2006018983; Land Surveying: 2006018983; Landscape Architecture: 2007013673

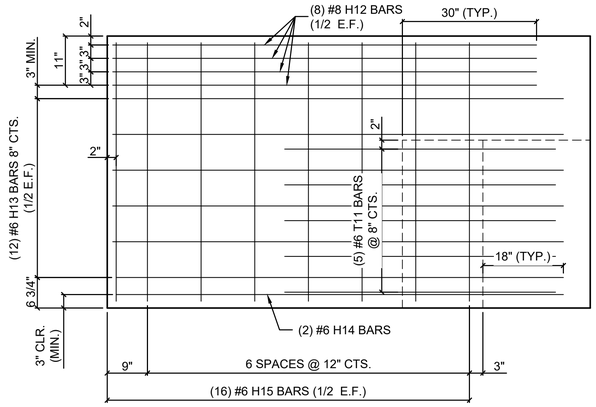
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JOPLIN, MISSOURI

BRIDGE END BENT DETAILS
-

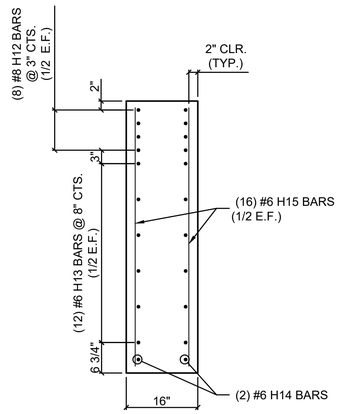
DATE: 04.24.2019

JOB NUMBER: 13-3249

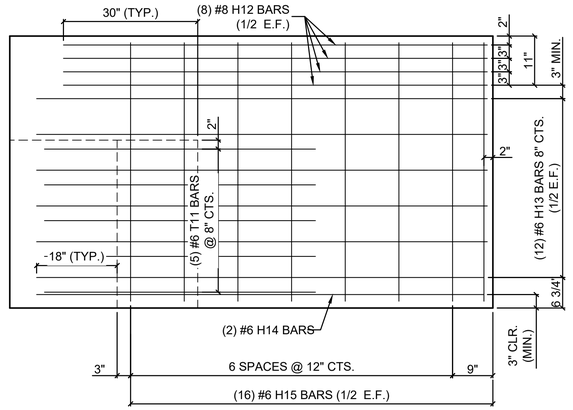
SHEET
S-03



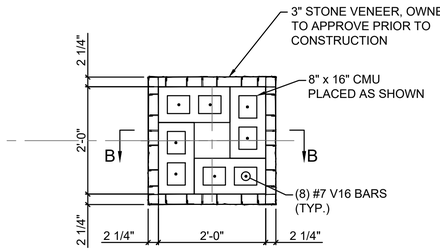
ELEVATION VIEW OF WING
(STREAM FACE)



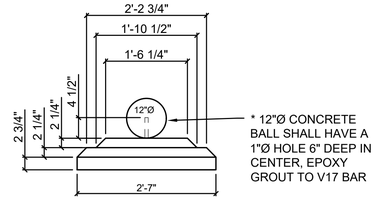
PART SECTION THRU WING

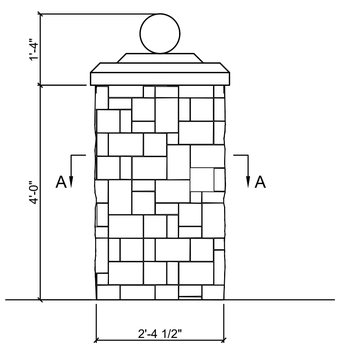


ELEVATION VIEW OF WING
(FILL FACE)

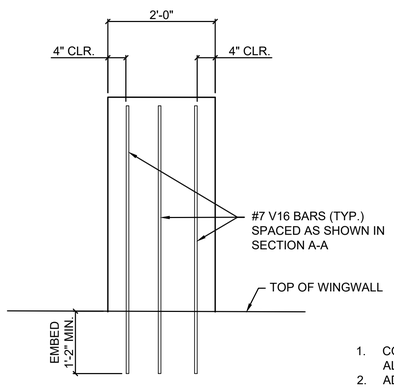


SECTION A-A





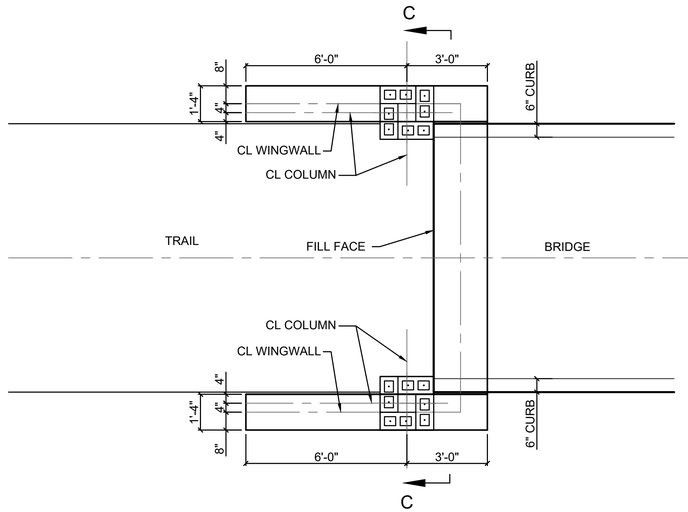
ELEVATION VIEW



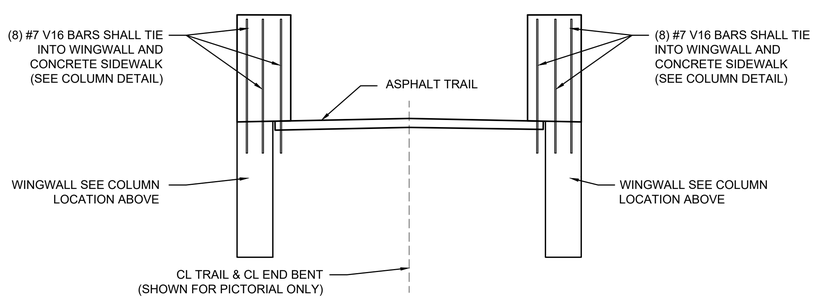
SECTION B-B

1. CONSTRUCT WITH TYPE S MORTAR ALL JOINTS.
2. ADJUSTABLE TAB TYPE MASONRY TIES MINIMUM 3 PER COURSE OFFSET PLACEMENT.
3. TOOL ALL JOINTS CONCAVE
4. ENGINEERED STONE VENEER.

COLUMN DETAIL



COLUMN LOCATION
(WEST ABUTMENT SHOWN)
(EAST ABUTMENT SIMILAR)



SECTION C-C

No.	Revision/Issue	Date

STATE OF MISSOURI
SPENCER
N. JONES
NUMBER
E-28676
REGISTERED PROFESSIONAL ENGINEER

SPENCER N. JONES - ENGINEER
MO# PE-28676

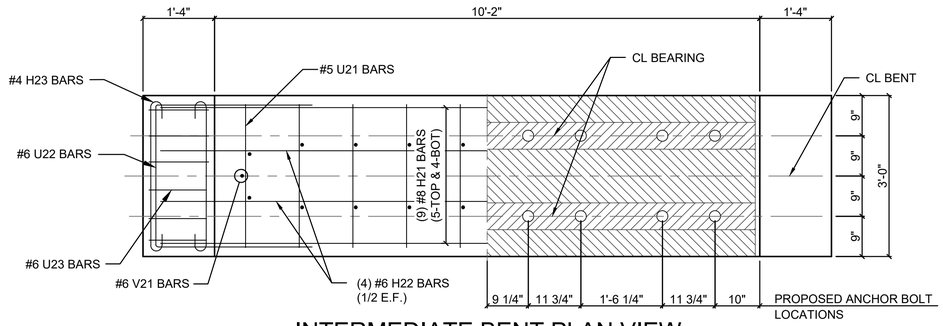
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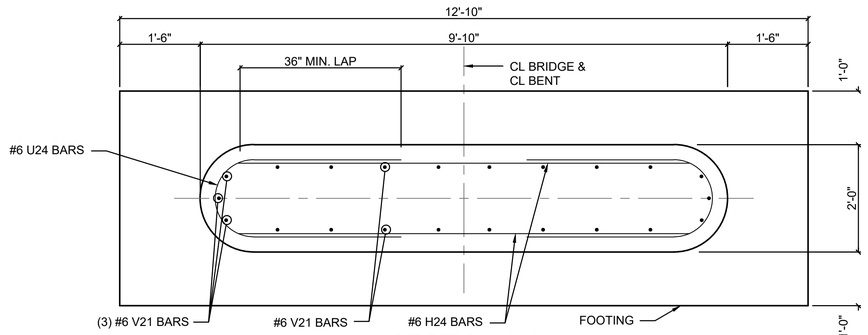
BRIDGE END BENT DETAILS
-

DATE: 04.24.2019
JOB NUMBER: 13-3249

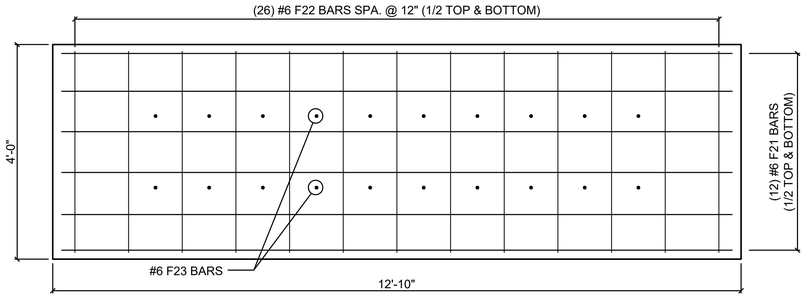
SHEET
S-04



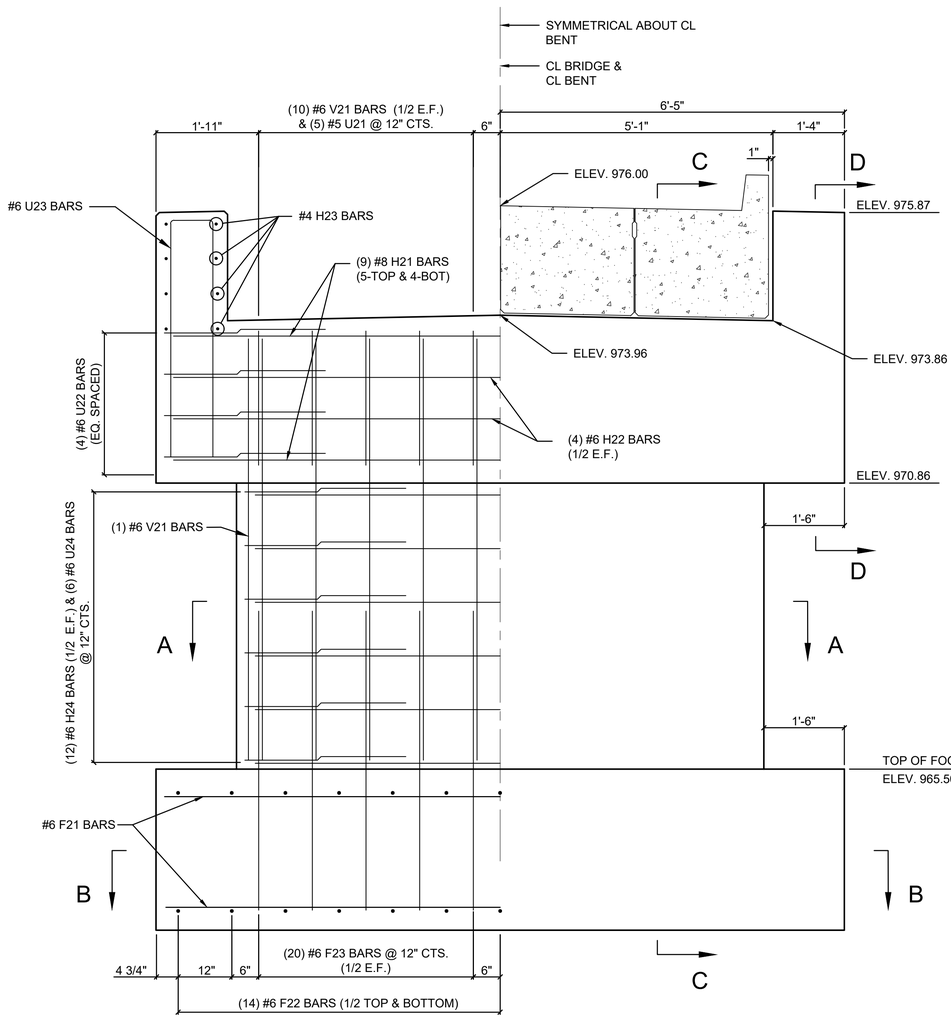
INTERMEDIATE BENT PLAN VIEW



SECTION A-A

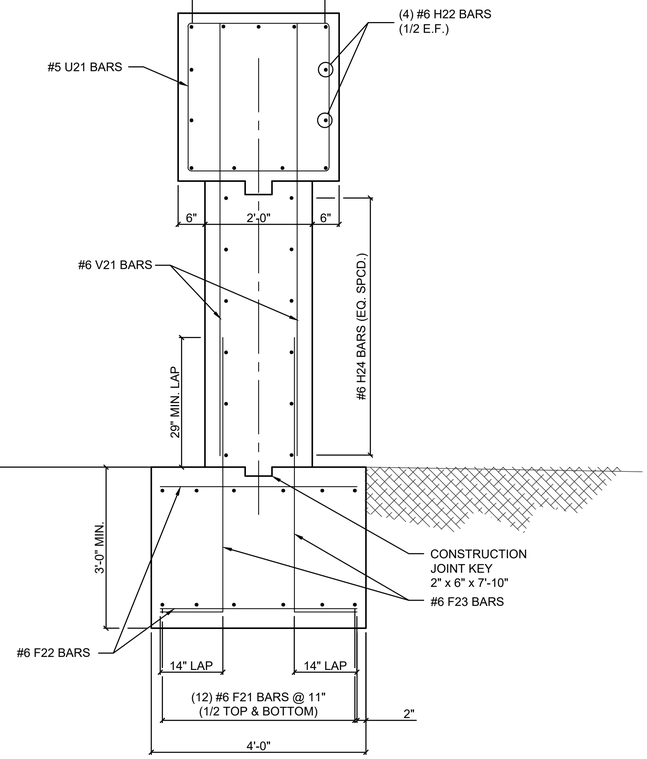


SECTION B-B

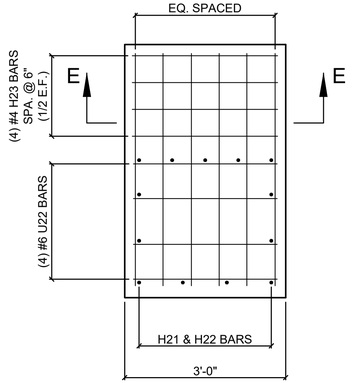


INTERMEDIATE BENT ELEVATION VIEW

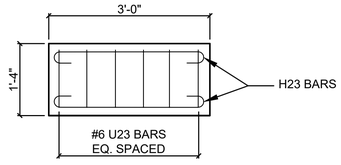
(ELEVATIONS @ CL BENT)



SECTION C-C



SECTION D-D



SECTION E-E

Date

Revision/Issue

No.

STATE OF MISSOURI
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NUMBER PE-28676
REGISTERED PROFESSIONAL ENGINEER

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MO# PE-28676

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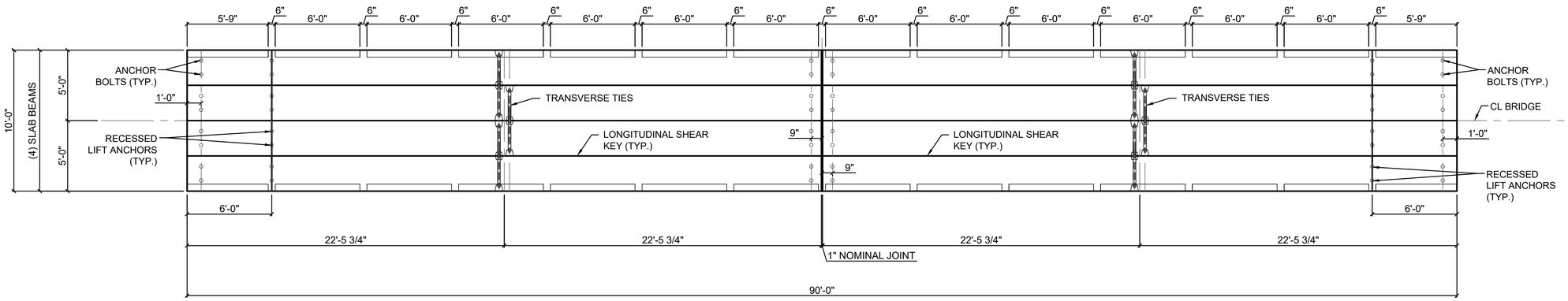
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JOPLIN, MISSOURI

BRIDGE INTERMEDIATE BENT DETAILS
-

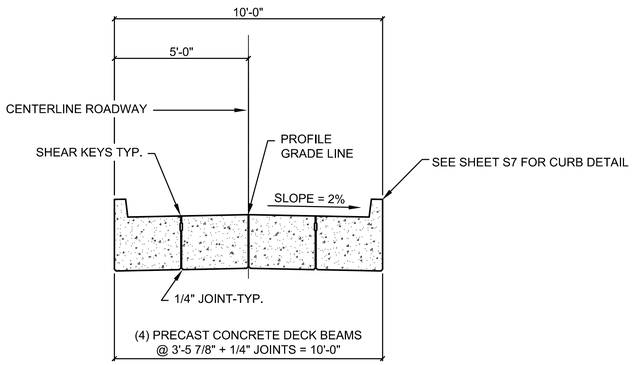
DATE: 04.24.2019

JOB NUMBER: 13-3249

SHEET
S-05



SLAB BEAM LAYOUT PLAN



TYPICAL CROSS SECTION OF ROADWAY
(NEAR CL OF STRUCTURE)

DESIGN DATA

DESIGN SPECIFICATIONS: 2014 A.A.S.H.T.O. LRFD BRIDGE DESIGN SPECIFICATIONS (7TH ED.)

SEISMIC DESIGN CATEGORY 'A'

DESIGN LOADING: HL-93
FUTURE WEARING SURFACE --- 35 PSF
EARTH --- 120 PCF
EQUIVALENT FLUID PRESSURE --- 45 PCF
35 POUND/SQUARE FOOT INITIAL WEARING SURFACE, NO FUTURE WEARING SURFACE ALLOWED

SUPERSTRUCTURE: SIMPLY SUPPORTED NON-COMPOSITE FOR DEAD AND LIVE LOADS.

NOTES:

DESIGN UNIT STRESSES FOR SLAB BEAMS;
CONCRETE f'c = 4,000 psi
REINFORCING STEEL (GRADE 60) fy = 60,000 psi

AFTER BEAMS HAVE BEEN ERECTED, HOLES SHALL BE DRILLED INTO SUBSTRUCTURE AND ANCHOR BOLTS PLACED. ANCHOR HOLES SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT TO TOP OF BEAM.

THE 1" DIAMETER RODS IN THE TRANSVERSE TIE ASSEMBLY SHALL BE TIGHTENED TO A SNUG FIT AND THE THREADS SET. POCKETS THAT RECEIVE TRANSVERSE TIE BAR OUTSIDE SHALL BE FILLED WITH GROUT AFTER TRANSVERSE TIE ASSEMBLY IS IN PLACE. SEE SHEET S2 FOR DETAILS. TIE RODS SHALL BE ASTM A36.

ANCHOR BOLTS, HARDENED WASHERS AND HEAVY HEXAGON NUTS SHALL BE COATED WITH A MINIMUM OF TWO COATS OF INORGANIC ZINC PRIMER (5 MILS MINIMUM).

LONGITUDINAL SHEAR KEYS SHALL BE GROUTED.

USE RECESSED LIFT ANCHORS ON EACH END. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

ALL REBAR IN PRECAST SLAB BEAMS SHALL BE EPOXY COATED.

DO NOT LIFT BEAMS UNTIL CONCRETE STRENGTH IS EQUAL TO 3500 PSI.

A FINNED FLOAT PRODUCING GROOVES APPROX. 1/8" WIDE AT 5/8" TO 3/4" CENTERS AND SHALL BE APPROX. 1/8" DEEP.

JOINT FILLER MUST BE IN PLACE PRIOR TO SETTING SLAB BEAMS.

BEARINGS SHALL BE 60 DUROMETER NEOPRENE PADS.

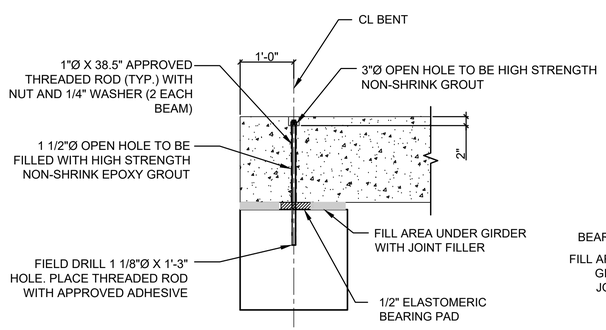
NOMINAL 1" JOINT AT CENTERLINE OF PIERS SHALL BE FILLED WITH JOINT FILLER. SEAL JOINTS WITH SONOLISTIC NP-1 BY SONNEBORN SEALANT SYSTEMS OR APPROVED EQUAL.



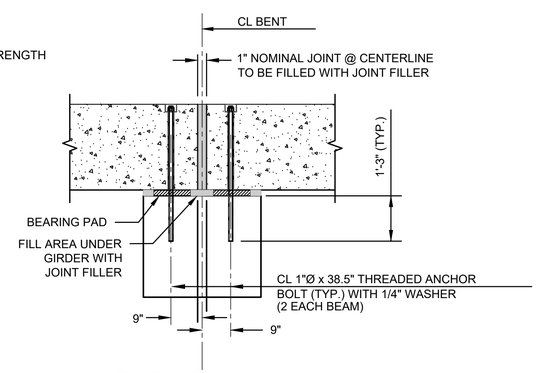
TYPICAL SLAB CAMBER
NOT TO SCALE

SLAB SHALL BE CAMBERED FOR DEAD LOAD DEFLECTIONS.

NOTE: THIS DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.



SECTION AT ABUTMENTS
(ALONG CL BEAMS)



SECTION AT PIERS
(ALONG CL BEAMS)

Date
Revision/Issue
No.

STATE OF MISSOURI
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NUMBER PE-28676
REGISTERED PROFESSIONAL ENGINEER

SPENCER N. JONES - ENGINEER
MO# PE-28676

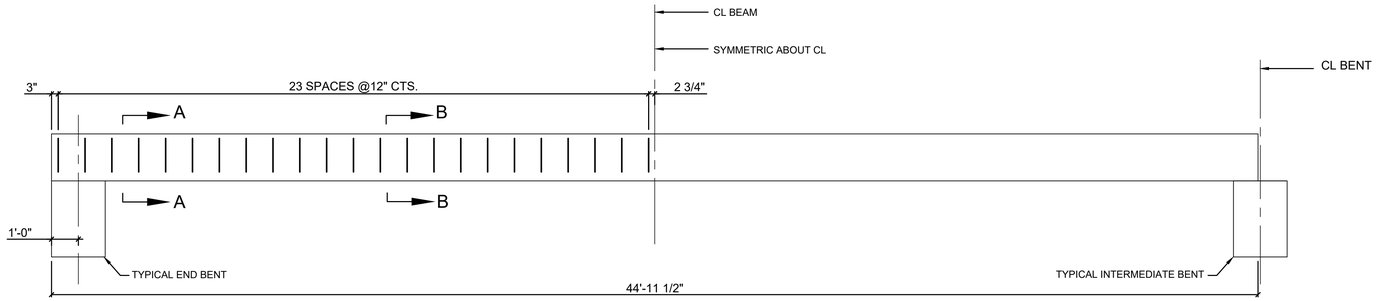
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JOPLIN, MISSOURI

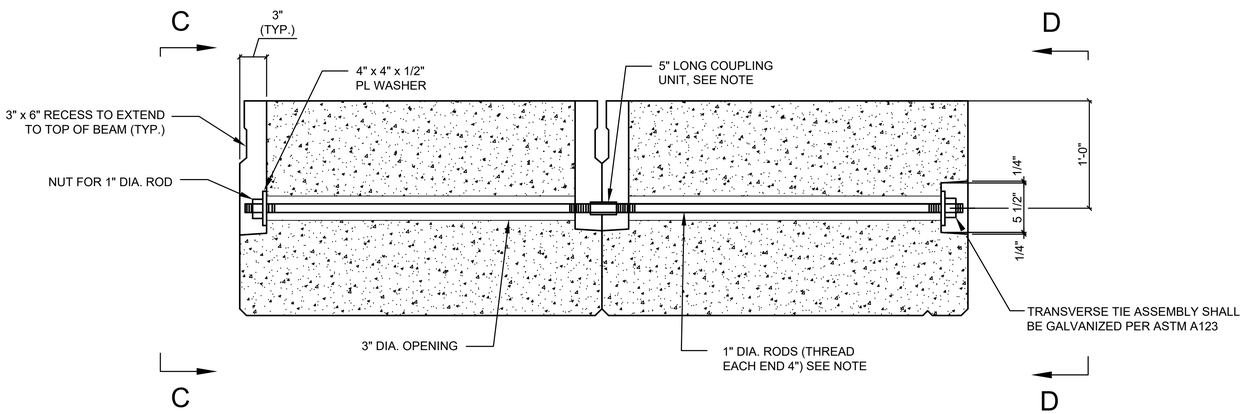
BRIDGE SLAB BEAM DETAILS

DATE: 04.24.2019
JOB NUMBER: 13-3249

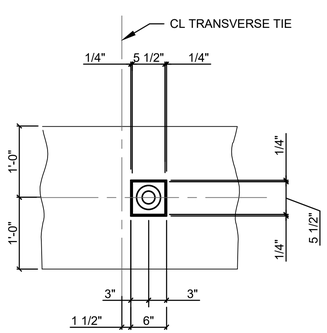
SHEET
S-06



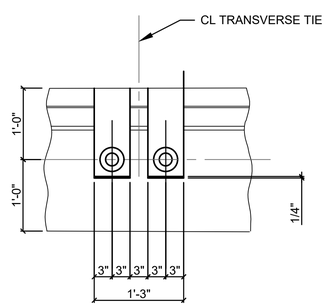
STIRRUP SPACING DETAIL
(SPANS 1 & 2)



SECTION ALONG TRANSVERSE TIE ASSEMBLY



SECTION C-C



SECTION D-D

NOTE:
THIS DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

NOTES:

THE 1" DIAMETER RODS IN THE TRANSVERSE TIE ASSEMBLY SHALL BE TIGHTENED TO A SNUG FIT AND THEN PRE-TENSIONED BY TURN-OF-NUT PRE-TENSIONING METHOD. POCKETS THAT RECEIVE TRANSVERSE TIE BAR SHALL BE FILLED WITH EPOXY GROUT AFTER TRANSVERSE TIE ASSEMBLY IS IN PLACE. TIE RODS SHALL BE IN ACCORDANCE TO ASTM A307.

USE APPROVED HEX COUPLING NUT FOR CONNECTING 1"Ø THREADED RODS.

TURN-OF-NUT PRE-TENSIONING METHOD:

TIGHTEN THE BOLTS TO A SNUG TIGHT CONDITION.

MATCH MARK A PLACE ON THE NUT, BOLT, AND CONCRETE SURFACE IN A STRAIGHT LINE.

VERIFY THE TIE ROD IS PREVENTED FROM TURNING.

THE NUT IS TIGHTENED WITH A 1/3 TURN ROTATION PAST SNUG TIGHT CONDITION.

No.	Revision/Issue	Date

STATE OF MISSOURI
SPENCER N. JONES
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SPENCER N. JONES - ENGINEER
MO# PE-28676

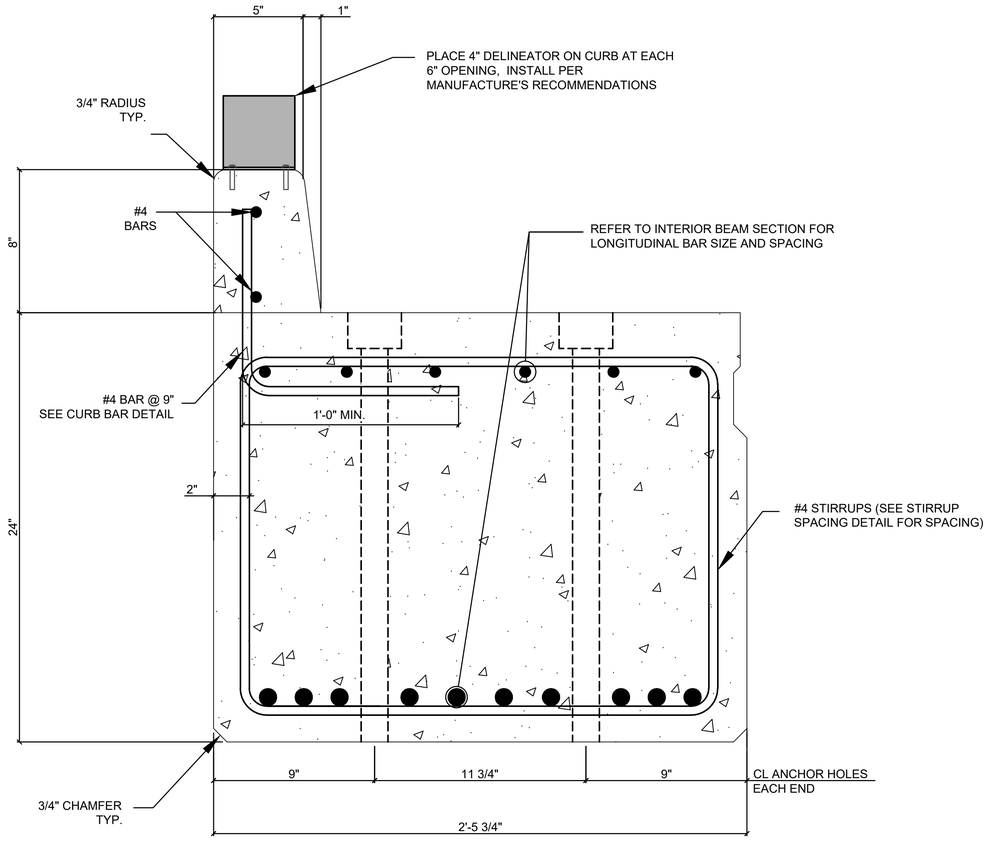
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CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

BRIDGE SLAB BEAM
DETAILS

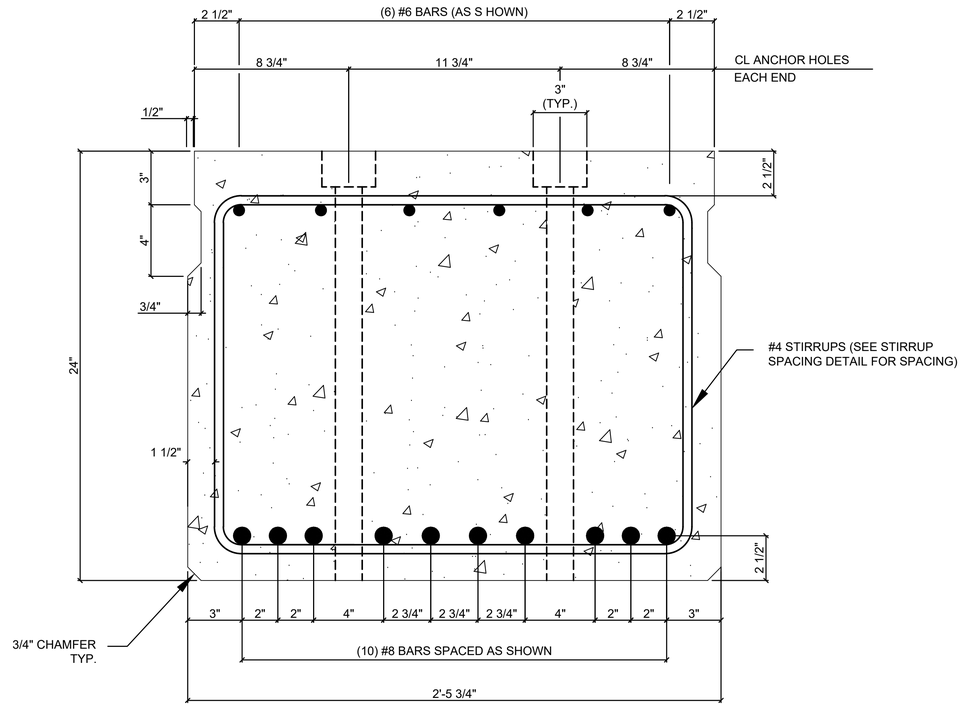
DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
S-07



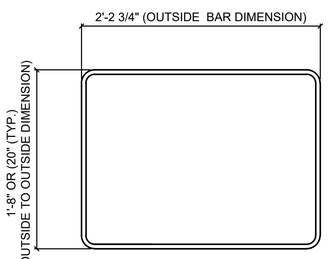
SECTION A-A

TYPICAL CROSS SECTION OF EXTERIOR BEAMS WITH CURB

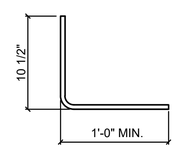


SECTION B-B

TYPICAL CROSS SECTION OF INTERIOR BEAMS



"TRADITIONAL" STIRRUP DETAIL



CURB STIRRUP DETAIL

NOTE: THIS DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

No.	Revision/Issue	Date

STATE OF MISSOURI
SPENCER N. JONES
NUMBER PE-28676
REGISTERED PROFESSIONAL ENGINEER

SPENCER N. JONES - ENGINEER
MO# PE-28676

GRE GREAT RIVER ENGINEERING
2636 S. INGRAM MILL, SPRINGFIELD, MO 65804
PHONE: (417) 886-7171 FAX: (417) 886-7591
www.greofmo.com
Missouri State Certificate of Authority Numbers:
Engineering: 2006018665; Land Surveying: 2006018674; Landscape Architecture: 2007013673

CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

BRIDGE SLAB BEAM DETAILS

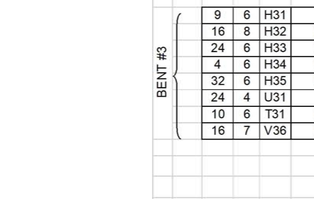
DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
S-08

COMPLETE BILL OF REINFORCING STEEL

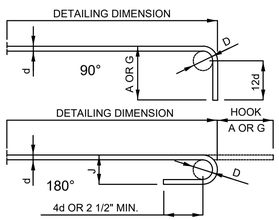
	NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	LENGTH FT.	LENGTH IN.	WEIGHT LBS.
BENT #1	9	6	H11	CAP		20		X			12	6.00													12	6	169
	16	8	H12	WINGWALL		20		X			7	11.00													7	11	339
	24	6	H13	WINGWALL		20		X			8	5.00													8	5	304
	4	6	H14	WINGWALL		20		X			8	5.00													8	5	51
	32	6	H15	WINGWALL		20		X			4	10.00													4	10	233
	24	4	U11	CAP		10	S	X			0	0.00	2	1.50	1	6.00	0	0.00							5	9	93
	10	6	T11	WINGWALL		23	S	X			1	2.00	3	9.00	1	2.00	0	10.00	0	10.00	0	10.00	0	10.00	6	1	92
	16	7	V16	WINGWALL		20		X			5	0.00													5	0	164
INTERMEDIATE BENT #2	12	6	F21	FOOTING		20		X			12	6.00													12	6	226
	26	6	F22	FOOTING		20		X			3	6.00													3	6	137
	20	6	F23	FOOTING		19		X			5	2.00	1	2.00											6	4	191
	12	6	H24	WALL		20		X			4	7.00													4	7	83
	12	6	U24	WALL		7	S	X			3	5.50	1	5.50											8	5	151
	22	6	V21	WALL		20		X			7	10.00													7	10	259
	9	8	H21	CAP		20		X			12	2.00													12	2	293
	4	6	H22	CAP		20		X			12	2.00													12	2	74
	10	5	U21	CAP		13	S	X			2	7.50	2	9.00	2	7.50	2	9.00							11	8	122
	8	6	U22	CAP		10	S	X					2	11.00	2	7.75									8	6	102
	16	4	H23	CAP		18	S	X			2	8.50													3	9	40
	12	6	U23	CAP		10	S	X					4	5.00	0	9.50									9	8	174
BENT #3	9	6	H31	CAP		20		X			12	6.00													12	6	169
	16	8	H32	WINGWALL		20		X			7	11.00													7	11	339
	24	6	H33	WINGWALL		20		X			8	5.00													8	5	304
	4	6	H34	WINGWALL		20		X			8	5.00													8	5	51
	32	6	H35	WINGWALL		20		X			4	10.00													4	10	233
	24	4	U31	CAP		10	S	X					2	1.50	1	6.00									5	9	93
	10	6	T31	WINGWALL		23		X			1	2.00	3	9.00	1	2.00	0	10.00	0	10.00	0	10.00	0	10.00	6	1	92
	16	7	V36	WINGWALL		20		X			5	0.00													5	0	164

SUPERSTRUCTURE WEIGHT:	0
SUBSTRUCTURE WEIGHT:	4,742
TOTAL WEIGHT:	4,742



STIRRUP HOOK DIMENSIONS			
GRADES 40 - 50 - 60 KSI			
BAR SIZE	D (IN.)	90° HOOK: HOOK A OR G	135° HOOK: HOOK A OR G	135° HOOK: APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

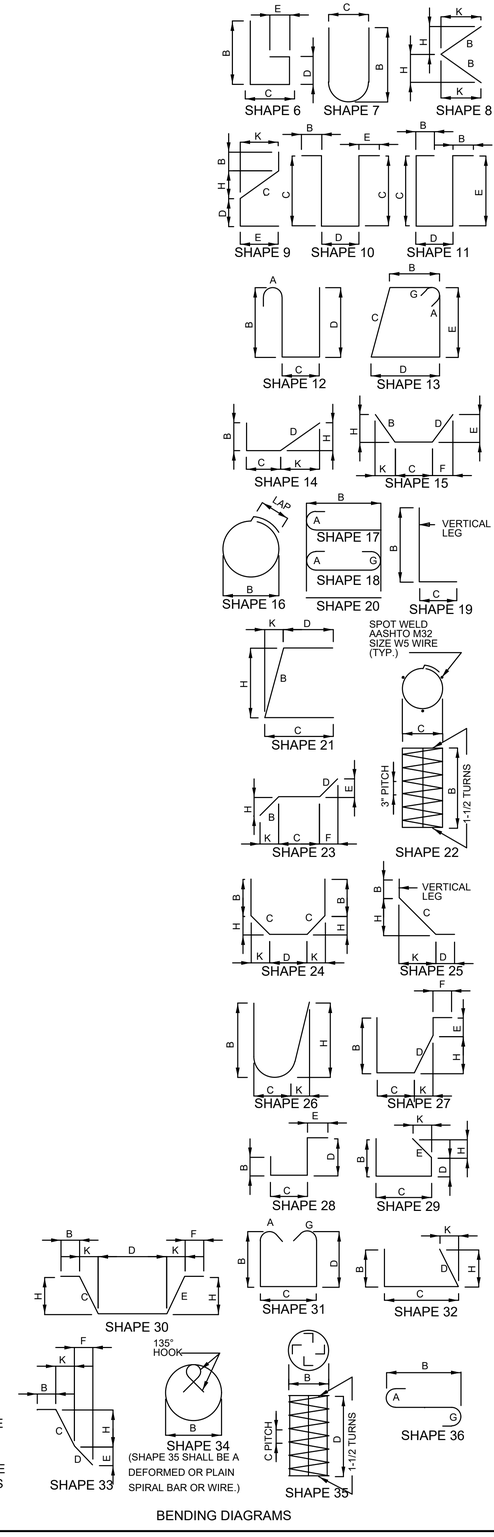
NOTE; UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
		ALL GRADES		
BAR SIZE	D (IN.)	180° HOOKS: A OR G	180° HOOKS: J	90° HOOKS: A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
THIS DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
PAYWEIGHTS ARE BASED ON NOMINAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.



BENDING DIAGRAMS

Date
Revision/Issue
No.

STATE OF MISSOURI
SPENCER N. JONES
NUMBER E-28676
REGISTERED PROFESSIONAL ENGINEER

SPENCER N. JONES - ENGINEER
MO# PE-28676

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CITY OF JOPLIN - TRAIL & PEDESTRIAN BRIDGE STP 3201(705)
JOPLIN, MISSOURI

BRIDGE BILL OF REINFORCING
-

DATE: 04.24.2019
JOB NUMBER: 13-3249

SHEET
S-09

"General Decision Number: MO20190001 12/27/2019

Superseded General Decision Number: MO20180001

State: Missouri

Construction Types: Heavy and Highway

Counties: Missouri Statewide.

HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

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

Modification Number Publication Date

0	01/04/2019
1	02/15/2019
2	03/08/2019
3	03/22/2019
4	04/12/2019
5	05/10/2019
6	05/24/2019
7	06/07/2019
8	06/21/2019
9	07/05/2019
10	07/19/2019
11	09/20/2019
12	09/27/2019
13	10/04/2019
14	10/25/2019
15	11/01/2019
16	11/08/2019
17	12/27/2019

CARP0002-002 05/01/2019

ST. LOUIS COUNTY AND CITY

	Rates	Fringes
Carpenters.....	$ 38.02	17.77

CARP0005-006 05/03/2015

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

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

CARP0011-001 05/01/2019

	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.....	$ 32.28	17.77
ATCHISON, ANDREW, BATES, CALDWELL, CARROLL,DAVIESS, DEKALB,GENTRY, GRUNDY, HARRISON, HENRY, HOLT, LIVINGSTON, MERCER, NODAWAY,ST. CLAIR, SALINE AND WORTH COUNTIES.....	$ 30.76	17.77
AUDRAIN (East of Hwy.19), RALLS, MARION, LEWIS, CLARK AND SCOTLAND COUNTIES.	$ 32.29	17.77
BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY,JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON, OZARK, POLK, STONE, TANEY, VERNON, WEBSTER AND WRIGHT COUNTIES.	$ 30.36	17.77
BENTON, MORGAN AND PETTIS...	$ 30.81	17.77
BOLLINGER, BUTLER, CAPE GIRARDEAU, DUNKLIN, MISSISSIPPI, NEW MADRID, PEMISCOT, PERRY, STE. GENEVIEVE, SCOTT, STODDARD AND WAYNE COUNTIES.....	$ 32.14	17.77
BUCHANAN, CLINTON, JOHNSON AND LAFAYETTE COUNTIES.....	$ 31.49	17.77
CARTER, HOWELL, OREGON AND RIPLEY COUNTIES.....	$ 31.09	17.77
CRAWFORD, DENT, GASCONADE, IRON, MADISON, MARIES, MONTGOMERY, PHELPS, PULASKI, REYNOLDS, SHANNON AND TEXAS COUNTIES.....	$ 32.13	17.77
FRANKLIN COUNTY.....	$ 35.56	17.77
JEFFERSON AND ST. CHARLES COUNTIES.....	$ 38.02	17.77
LINCOLN COUNTY.....	$ 34.00	17.77

PIKE, ST. FRANCOIS AND
WASHINGTON COUNTIES.....$ 32.92 17.77
WARREN COUNTY.....$ 34.44 17.77

ELEC0001-002 06/03/2018

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

	Rates	Fringes
Electricians.....	$ 38.12	15.60

ELEC0002-001 09/01/2018

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

	Rates	Fringes
Line Construction:		
Equipment Operator.....	$ 39.50	19.96
Groundman & Truck Driver....	$ 30.36	16.67
Lineman & Cable Splicer.....	$ 45.90	22.27

ELEC0053-004 09/02/2018

	Rates	Fringes
Line Construction: (ANDREW, ATCHINSON, BARRY, BARTON, BUCHANAN, CALDWELL, CEDAR, CHRISTIAN, CLINTON, DADE,		

DALLAS, DAVIES,, DEKALB,
DOUGLAS, GENTRY, GREENE,
GRUNDY, HARRISON, HICKORY,
HOLT, JASPER, LACLEDE,
LAWRENCE, LIVINGSTON,
MCDONALD, MERCER, NEWTON,
NODAWAY, OZARK, POLK, ST.
CLAIR, STONE, TANEY, VERNON,
WEBSTER, WORTH AND WRIGHT
COUNTIES)

Groundman Powderman	$ 31.56	14.90
Groundman	$ 29.46	14.29
Lineman Operator	$ 42.24	18.00
Lineman	$ 45.70	19.00

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

Groundman Powderman	$ 31.56	14.90
Groundman	$ 29.46	14.29
Lineman Operator	$ 42.24	18.00
Lineman	$ 45.70	19.00

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* ELEC0095-001 06/01/2019

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

	Rates	Fringes
Electricians:		
Cable Splicers	$ 25.40	12.19
Electricians	$ 27.43	14.97

ELEC0124-007 08/26/2019

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

	Rates	Fringes

Electricians.....$ 40.79 22.92

ELEC0257-003 03/01/2019

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.....	$ 33.25	18.18

ELEC0350-002 12/01/2018

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.....	$ 31.50	17.20

ELEC0453-001 09/01/2019

	Rates	Fringes
Electricians:		
CHRISITAN, DALLAS, DOUGLAS, GREENE, HICKORY, HOWELL, LACLEDE, OREGON, OZARK, POLK, SHANNON, WEBSTER and WRIGHT COUNTIES.	$ 27.88	14.99
PULASKI and TEXAS COUNTIES..	$ 32.53	15.46
STONE and TANEY COUNTIES....	$ 23.67	14.17

ELEC0545-003 06/01/2019

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

	Rates	Fringes
Electricians:	$ 32.00	17.30

ELEC0702-004 01/01/2019

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

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

ENGI0101-001 05/01/2016

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

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt roller operator, finish; asphalt paver and spreader; asphalt plant operator; auto grader or trimmer or sub-grader; backhoe; blade operator (all types); boilers -

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

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

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

HOURLY PREMIUMS:

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

piledrivers, 100' of boom or over (incl. jib.), hoist - each additional active drum over 2 drums

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

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

ENGI0101-005 04/01/2018

CASS, CLAY, JACKSON,PLATTE AND RAY COUNTIES

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Asphalt roller operator, finish; asphalt paver and spreader; asphalt plant operator; auto grader or trimmer or sub-grader; backhoe; blade operator (all types); boilers-2; booster pump on dredge; boring machine (truck or crane mounted); bulldozer operator; clamshell operator; concrete cleaning decontamination machine operator; concrete mixer paver; concrete plant operator; concrete pump operator; crane operator; derrick or derrick trucks; ditching machine; dragline operator; dredge engineman; dredge operator; drillcat with compressor mounted (self-contained) or similar type self propelled rotary drill (not air tract); drilling or boring machine (rotary - self-propelled); finishing machine operator; greaser; heavy equipment robotics operator/mechanic; horizontal directional drill operator; horizontal directional drill locator; loader-forklift - skid loader (all types); hoisting engineer (2 active drums); locomotive operator (standard guage); master environmental maintenance mechanic; mechanics and welders (field and plants);

mucking machine operator; piledrive operator; pitman crane or boom truck (all types); push cat; quad-track; scraper operators (all types); shovel operator; side discharge spreader; sideboom cats; skimmer scoop operator; slip-form paver (CMI, REX, Gomaco or equal); la tourneau rooter (all tiller types); tow boat operator; truck crane; ultra high perssure waterjet cutting tool system operator/mechanic; vacuum blasting machine operator/mechanic; wood and log chippers (all types)

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

GROUP 3: Oilers

GROUP 4: Oiler Driver (All Types)

FOOTNOTE:
HOURLY PREMIUMS FOLLOWING CLASSIFICATIONS SHALL RECEIVE ($1.00) ABOVE GROUP 1 RATE:
Clamshells - 3 yd. capacity or over; Cranes or rigs, 80 ft. of boom or over (including jib); Draglines, 3 yd. capacity or over;
Piledrivers 80 ft. of boom or over (including jib);
Shovels & backhoes, 3 yd. capacity or over.

ENGI0101-022 05/01/2016

BARRY, BARTON, CAMDEN, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY, JASPER, LACLEDE, LAWRENCE, MCDONALD, NEWTON,

OZARK, POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER AND
WRIGHT COUNTIES and CITY OF SPRINGFIELD

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 30.82	13.30
GROUP 2	$ 29.88	13.30
GROUP 3	$ 30.27	13.30
GROUP 4	$ 28.22	13.30

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

GROUP 2: A-frame; asphalt hot-mix silo; asphalt plant fireman (drum or boiler); asphalt plant man; asphalt plant man; asphalt plant mixer operator; asphalt roller operator; backfiller operator; barber-greene loader; boat operator (bridges and dams); chip spreader; concrete mixer operator - skip loader; concrete plant operator; concrete pump operator; crusher operator; dredge oiler; elevating grader operator; fork lift; greaser-fleet; hoisting engine - 1; locomotive operator - narrow gauge; multiple compactor; pavement breaker; powerbroom - self-propelled; power shield; rooter; side discharge concrete spreader; slip form finishing machine; stumpcutter machine; throttle man; tractor operator (over 50 h.p.); winch truck.

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

GROUP 4: Grade checker; Oiler; Oiler-Driver

HOURLY PREMIUMS:

The following classifications shall receive $ .25 above GROUP 1 rate:
Clamshells - 3 yds. or over; Cranes - Rigs or Piledrivers, 100 ft. of boom or over (including jib);
Draglines - 3 yds. or over; Hoists - each additional active drum over 2 drums; Shovels - 3 yds. or over;

The following classifications shall receive $ .50 above GROUP 1 rate:
Tandem scoop operator; Cranes - Rigs or Piledrivers, 150 ft. to 200 ft. of boom (including jib); Tandem scoop.

The following classifications shall receive $ .75 above GROUP 1 rate:
Cranes - Rigs or Piledrivers, 200 ft. of boom or over (including jib.).

ENGI0513-004 05/06/2019

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

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 34.36	27.36
GROUP 2	$ 34.36	27.36
GROUP 3	$ 33.06	27.36
GROUP 4	$ 32.61	27.36

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Backhoe, Cable; Backhoe, Hydraulic (2 cu yds bucket and under regardless of attachment, one oiler for 2 or 3, two oilers for 4 through 6); Backhoe, Hydraulic over 2 cu yds; Cableway; Crane, Crawler or Truck; Crane, Hydraulic - Truck or Cruiser mounted, 16 tons and over; Crane, Locomotive; crane with boom including jib over 100 ft from pin to pin; Crane using rock socket tool; Derrick, Steam; Derrick Car and Derrick Boat; Dragline, 7 cu yds and over; Dredge; Gradall, Crawler or tire mounted; Locomotive, Gas, Steam & other powers; Pile Driver, Land or Floating; Scoop, Skimmer; Shovel, Power (Electric, Gas, Steam or other powers); Shovel, Power (7 cu yds and over); Switch Boat; Whirley; Air Tugger with air compressor; Anchor Placing Barge; Asphalt Spreaker; Athey Force Feeder Loader, self-propelled; Backfilling Machine; Boat Operator - Push Boat or Tow Boat (job site); Boiler, High Pressure Breaking in Period; Boom Truck, Placing or Erecting; Boring Machine, Footing Foundation; Bullfloat; Cherry Picker; Combination Concrete Hoist and Mixer (such as Mixermobile); Compressor, Two 125 CFM and under; Compressor, Two through Four over 125 CFM; Compressor when operator runs throttle; Concrete Breaker (Truck or Tractor mounted); Concrete Pump (such as Pumpcrete machine); Concrete Saw (self-propelled); Concrete Spreader; Conveyor, Large (not selfpropelled) hoisting or moving brick and concrete into, or into and on floor level, one or both; Crane, Cimbing (such as Linden); Crane, Hydraulic - Rough Terrain, self-propelled; Crane, Hydraulic - Truck or Cruiser mounted - under 16 tons; Drilling machine - Self-powered, used for earth or rock drilling or boring (wagon drills and any hand drills obtaining power from other souces including concrete breakers, jackhammers and Barco equipmnet no engineer required); Elevating Grader; Engine Man, Dredge; Excavator or Powerbelt Machine; Finishing Machine, self- propelled oscillating screed; Forklift; Generators, Two through Six 30 KW or over; Grader, Road with power blade; Greaser; Highlift; Hoist, Concrete and Brick (Brick cages or concrete skips operating or on tower, Towermobile, or similar equipment); Hoist, Three or more drums in use; Hoist, Stack; Hydro-Hammer; Lad-A-Vator, hoisting brick or concrete; Loading Machine such as Barber-Greene; Mechanic on job site

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

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

GROUP 4: Crane type

HOURLY PREMIUMS:

Backhoe, Hydraulic 2 cu yds or less without oiler - $2.00;
Crane,climbing (such as Linden) - $.50;
Crane, Pile Driving and Extracting - $ .50
Crane with boom (including job) over
100 ft from pin to pin - add $.01 per foot
to maximum of $4.00);
Crane, using rock socket tool - $ .50;
Derrick, diesel, gas or electric hoisting material
and erecting steel (150 ft or more above ground) - $ .50;
Dragline, 7 cu yds and over - $ .50;
Hoist, Three or more drums in use - $ .50;
Scoop, Tandem - $.50;
Shovel, Power - 7 cu yds and over - $ .50;
Tractor, Tandem Crawler - $ .50;

Tunnel, man assigned to work in tunnel or
tunnel shaft - $ .50;
Wrecking, when machines are working on
second floor or higher - $ .50

ENGI0513-006 05/01/2019

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 29.69	27.16
GROUP 2	$ 29.34	27.16
GROUP 3	$ 29.14	27.16
GROUP 4	$ 25.49	27.16

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

GROUP 2: A-Frame; asphalt hot-mix silo; asphalt roller operator asphalt plant fireman (drum or boiler); asphalt plant man; asphalt plant mixer operator; backfiller operator; barber-greene loader; boat operator (bridge & dams); chip spreader; concrete mixer operator skip loader; concrete plant operator; concrete pump operator; dredge oiler; elevating graded operator; fork lift; grease fleet; hoisting engine one; locomotive operator narrow guage; multiple compactor; pavement breaker; powerbroom self-propelled; power shield; rooter; slip-form finishing

machine; stumpcutter machine; side discharge concrete spreader; throttleman; tractor operator (over 50 hp); winch truck; asphalt roller operator; crusher operator.

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

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

FOOTNOTE: HOURLY PREMIUMS

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

ENGI0513-007 05/06/2019

ST. LOUIS CITY AND COUNTY

	Rates	Fringes
Power equipment operators:		
GROUP 1	$ 34.36	27.36
GROUP 2	$ 34.36	27.36
GROUP 3	$ 33.06	27.36
GROUP 4	$ 32.61	27.36

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Backhoe, cable or hydraulic; cableway; crane crawler or truck; crane, hydraulic-truck or cruiser mounted 16 tons & over; crane locomotive; derrick, steam; derrick car & derrick boat; dragline; dredge; gradall, crawler or tire mounted; locomotive, gas, steam & other powers; pile driver, land or floating; scoop, skimmer; shovel, power (steam, gas, electric or other powers); switch boat; whirley.

GROUP 2: Air tugger w/air compressor; anchor-placing barge; asphalt spreader; athey force feeder loader (self-propelled); backfilling machine; backhoe-loader; boat operator-push boat or tow boat (job site); boiler, high pressure breaking in period; boom truck, placing or erecting; boring machine, footing foundation; bull- float; cherry picker; combination concrete hoist & mixer (such as mixer mobile); compressor (when operator runs throttle); concrete breaker (truck or tractor mounted); concrete pump, such as pump-crete machine; concrete saw (self-propelled), concrete spreader; conveyor, large (not self-propelled), hoisting or moving brick and concrete into, or into and on floor level, one or both; crane, hydraulic-rough terrain, self-propelled; crane hydraulic-truck or cruiser mounted-under 16 tons; drilling machines, self-powered use for earth or rock drilling or boring (wagon drills nd any hand drills obtaining power from other sources including concrete breakers, jackhammers and barco equipment-no engineer required); elevating grader; engineman, dredge; excavator or powerbelt machine; finishing machine, self-propelled oscillating screed; forklift; grader, road

with power blade; highlift. greaser; hoist, stack, hydro-hammer; loading machine (such as barber-greene); machanic, on job site; mixer, pipe wrapping machines; plant asphalt; plant, concrete producing or ready-mix job site; plant heating-job site; plant mixing-job site; plant power, generating-job site; pumps, two through six self-powered over 2""; pumps, electric submersible, two through six, over 4""; quad-track; roller, asphalt, top or sub-grade; scoop, tractor drawn; spreader box; sub-grader; tie tamper; tractor-crawler, or wheel type with or without power unit, power take-offs and attachments regardless of size; trenching machine; tunnel boring machine; vibrating machine automatic, automatic propelled; welding machines (gasoline or diesel) two through six; well drilling machine

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

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

HOURLY PREMIUMS:

Backhoe, hydraulic	
2 cu. yds. or under without oiler	$2.00
Certified Crane Operator	1.50
Certified Hazardous Material Operator	1.50
Crane, climbing (such as Linden)	.50
Crane, pile driving and extracting	.50
Crane, with boom (including jib) over 100' (from pin to pin) add $.01	

per foot to maximum of 4.00
Crane, using rock socket tool .50
Derrick, diesel, gas or electric,
hoisting material and erecting steel
(150' or more above ground) .50
Dragline, 7 cu. yds. and over .50
Hoist, three (3) or more drums in use .50
Scoop, Tandem .50
Shovel, power - 7 cu. yds. or more .50
Tractor, tandem crawler .50
Tunnel, man assigned to work in tunnel
or tunnel shaft .50
Wrecking, when machine is working on
second floor or higher .50

IRON0010-012 04/01/2019

	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	$ 30.55	30.44
ATCHISON, BATES, BUCHANAN, CALDWELL, CARROLL, CASS, CLAY, CLINTON, HENRY, JACKSON, JOHNSON, LAFAYETTE, PETTIS, PLATTE, SALINE, AND RAY COUNTIES	$ 33.55	30.44

IRON0321-002 09/01/2019

DOUGLAS, HOWELL and OZARK COUNTIES

	Rates	Fringes
Ironworker	$ 21.10	19.01

IRON0396-004 08/07/2019

ST. LOUIS (City and County), ST. CHARLES, JEFFERSON, IRON, FRANKLIN, LINCOLN, WARREN, WASHINGTON, ST. FRANCOIS, STE. GENEVIEVE, and REYNOLDS Counties; and portions of MADISON, PERRY, BOLLINGER, WAYNE, and CARTER Counties

	Rates	Fringes
Ironworker	$ 34.91	27.36

IRON0396-009 08/07/2019

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

	Rates	Fringes
Ironworker	$ 30.44	27.36

IRON0577-005 06/01/2019

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

	Rates	Fringes
Ironworker	$ 26.60	24.00

IRON0584-004 06/01/2019

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

	Rates	Fringes
Ironworkers:	$ 26.00	15.35

IRON0782-003 05/01/2019

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

	Rates	Fringes
Ironworkers:		
Locks, Dams, Bridges and other major work on the Mississippi and Ohio River only	$ 31.63	24.27
All Other Work	$ 27.38	23.29

LABO0042-003 03/06/2019

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Plumber Laborer	$ 33.22	15.67

LABO0042-005 03/06/2019

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Dynamiter, Powderman	$ 33.22	15.67
Laborers, Flaggers	$ 33.22	15.67
Wrecking	$ 33.22	15.67

LABO0424-002 05/01/2016

	Rates	Fringes

LABORER

ADAIR, AUDRAIN, BOONE,
CALLAWAY, CHARITON, CLARK,
COLE, COOPER, HOWARD,
IRON, KNOX, LEWIS, LINN,
MACON, MADISON, MARION,
MILLER, MONITEAU, MONROE,
PERRY, PIKE, PUTNAM,
RALLS, RANDOLPH, REYNOLDS,
ST. FRANCOIS, STE.
GENEVIEVE, SCHUYLER,
SCOTLAND, SHELBY AND
SULLIVAN COUNTIES

GROUP 1	$ 27.96	13.17
GROUP 2	$ 27.96	13.17

BOLLINGER, BUTLER, CAPE
GIRARDEAU, CARTER,
CRAWFORD, DENT, DUNKLIN,
GASCONADE, HOWELL, MARIES,
MISSISSIPPI, NEW MADRID,
OREGON, OSAGE, PEMISCOT,
PHELPS, PULASKI, RIPLEY,
SCOTT, SHANNON, STODDARD,
TEXAS, WASHINGTON AND
WAYNE COUNTIES

GROUP 1	$ 27.96	13.17
GROUP 2	$ 27.96	13.17

FRANKLIN COUNTY

GROUP 1	$ 29.71	13.17
GROUP 2	$ 30.31	13.17

JEFFERSON COUNTY

GROUP 1	$ 29.76	13.17
GROUP 2	$ 30.36	13.17

LINCOLN, MONTGOMERY AND
WARREN COUNTIES

GROUP 1	$ 31.18	13.32
GROUP 2	$ 31.18	13.32

ST.CHARLES COUNTY

GROUP 1	$ 3.18	13.32
GROUP 2	$ 31.18	13.32

LABORERS CLASSIFICATIONS

GROUP 1 - General laborer-flagman, carpenter tenders;
salamander Tenders; Dump Man; Ticket Takers; loading trucks

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

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

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LABO0579-005 05/01/2019

	Rates	Fringes
LABORER (ANDREW, ATCHISON, BUCHANAN, CALDWELL, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LIVINGSTON, MERCER, NODAWAY and WORTH COUNTIES.)		
GROUP 1	$ 26.66	14.97
GROUP 2	$ 27.01	14.97
LABORER (BARRY, BARTON, BATES, BENTON, CAMDEN, CARROLL, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HENRY. HICKORY, JASPER, JOHNSON, LACLEDE, LAWRENCE, MCDONALD, MORGAN, NEWTON, OZARK, PETTIS, POLK, ST.CLAIR, SALINE, STONE, TANEY, VERNON, WEBSTER and WRIGHT COUNTIES)		
GROUP 1	$ 25.66	14.17
GROUP 2	$ 26.21	14.17
LABORER (LAFAYETTE COUNTY)		
GROUP 1	$ 27.21	0.0014.42
GROUP 2	$ 27.56	0.0014.42

LABORERS CLASSIFICATIONS

GROUP 1: General Laborers - Carpenter tenders; salamander tenders; loading trucks under bins; hoppers & conveyors; track men & all other general laborers; air tool operator; cement handler-bulk or sack; dump man on earth fill; georgie buggie man; material batch hopper man; material mixer man (except on manholes); coffer dams; riprap pavers - rock, block or brick; signal man; scaffolds over ten feet not self-supported from ground up; skipman on concrete paving; wire mesh setters on concrete paving; all work in connection with sewer, water, gas, gasoline, oil drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator, all work in connection with hydraulic or general dredging operations; puddlers (paving only); straw blower nozzleman; asphalt plant platform man;

chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material or materials (where special protection is required); rubbing concrete; topper of standing trees; batter board man on pipe and ditch work; feeder man on wood pulverizers; board and willow mat weavers and cable tiers on river work; deck hands; pile dike and revetment work; all laborers working on underground tunnels less than 25 feet where compressed air is not used; abutment and pier hole men working six (6) feet or more below ground; men working in coffer dams for bridge piers and footings in the river; ditchliners; pressure groutmen; caulker; chain or concrete saw; cliffscalers working from scaffolds, bosuns' chairs or platforms on dams or power plants over (10) feet above ground; mortarmen on brick or block manholes; toxic and hazardous waste work.

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

LABO0663-002 04/01/2019

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
LABORER		
GROUP 1	$ 30.73	15.98
GROUP 2	$ 31.94	15.98

LABORERS CLASSIFICATIONS

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

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

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

PAIN0002-002 09/01/2007

CLARK, FRANKLIN, JEFFERSON, LEWIS, LINCOLN, MARION, PIKE,

RALLS, ST. CHARLES, ST. LOUIS (CITY & COUNTY), AND WARREN COUNTIES

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

PAIN0002-006 04/01/2018

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

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

PAIN0003-004 04/01/2017

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

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

PAIN0003-011 04/01/2011

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

	Rates	Fringes
Painters:		
Bridgeman; Lead Abatement; Sandblast; Storage Bin & Tanks	$ 24.06	14.04
Brush & Roller	$ 22.67	14.04
Drywall	$ 22.84	14.04
Paper Hanger	$ 23.07	14.04
Stageman; Beltman; Steelman; Elevator Shaft; Bazooka, Boxes and Power Sander; Sprayman; Dipping	$ 23.56	14.04
Steeplejack	$ 26.82	14.04

PAIN0203-001 04/01/2012

BARRY, BARTON, CEDAR, CHRISTIAN, DADE, DALLAS, DOUGLAS, GREENE, HICKORY, HOWELL, JASPER, LAWRENCE, MCDONALD, NEWTON, OZARK,

POLK, ST. CLAIR, STONE, TANEY, VERNON, WEBSTER, and WRIGHT
COUNTIES

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

PAIN1265-003 07/01/2013

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

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

PAIN1292-002 09/01/2016

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

	Rates	Fringes
Painters:		
Bridges, Stacks & Tanks	$ 30.85	11.64
Brush & Roller	$ 25.35	11.64
Spray & Abrasive Blasting; Waterblasting (over 5000		

PSI).....$ 28.95 11.64

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

PAIN1292-003 09/01/2017

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

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

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

PAIN2012-001 04/01/2019

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

	Rates	Fringes
Painters:		
Brush & Roller	$ 31.26	17.26
Sandblaster	$ 32.76	17.26
Steeplejack	$ 36.33	17.26

PLAS0518-006 03/01/2019

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

COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	$ 24.30	11.61

PLAS0518-007 04/01/2019

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

	Rates	Fringes
Cement Masons:.....	$ 32.32	17.89

PLAS0518-011 04/01/2019

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	$ 32.00	20.13

PLAS0527-001 04/01/2018

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

PLAS0527-004 06/01/2017

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

	Rates	Fringes
CEMENT MASON	$ 28.10	18.07

PLAS0908-001 05/01/2017

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

	Rates	Fringes
CEMENT MASON	$ 27.60	15.73

PLAS0908-005 05/01/2017

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

	Rates	Fringes
CEMENT MASON	$ 27.60	15.73

PLUM0008-003 06/01/2018

CASS, CLAY, JACKSON, JOHNSON, AND PLATTE COUNTIES

	Rates	Fringes
Plumbers	$ 45.34	21.39

PLUM0008-017 06/01/2018

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

	Rates	Fringes
Plumbers	$ 45.34	21.39

PLUM0045-003 08/01/2019

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

	Rates	Fringes
Plumbers and Pipefitters	$ 37.75	23.65

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 06/01/2019

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

	Rates	Fringes
Pipefitters	$ 46.68	22.55

PLUM0562-004 07/01/2019

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	$ 40.41	21.49
Mechanical Contracts including all piping and temperature control work over $7.0 million	$ 41.85	27.85

PLUM0562-016 07/01/2019

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	$ 40.41	21.49
Mechanical Contracts including all piping and temperature control work over $7.0 million	$ 41.85	27.85

TEAM0013-001 05/01/2019

	Rates	Fringes

Truck drivers (ADAIR, BUTLER,
CLARK, DUNKIN, HOWELL, KNOX,
LEWIS, OREGON, PUTNAM,
RIPLEY, SCHUYLER AND SCOTLAND
COUNTIES)

GROUP 1	$ 30.34	13.75
GROUP 2	$ 30.49	13.75
GROUP 3	$ 30.61	13.75
GROUP 4	$ 30.50	13.75

Truck drivers (AUDRAIN,
BOLLINGER, BOONE, CALLAWAY,
CAPE GIRARDEAU, CARTER, COLE,
CRAWFORD, DENT, GASCONADE,
IRON, MACON, MADISON, MARIES,
MARION, MILLER, MISSISSIPPI,
MONROE, MONTGOMERY, NEW
MADRID, OSAGE, PEMISCOT,
PERRY, PHELPS, PIKE, PULASKI,
RALLS, REYNOLDS, ST.
FRANCOIS, STE. GENEVIEVE,
SCOTT, SHANNON, SHELBY,
STODDARD, TEXAS, WASHINGTON
AND WAYNE COUNTIES)

GROUP 1	$ 31.07	13.75
GROUP 2	$ 31.22	13.75
GROUP 3	$ 31.34	13.75
GROUP 4	$ 31.23	13.75

Truck drivers (FRANKLIN,
JEFFERSON and ST. CHARLES
COUNTIES)

GROUP 1	$ 33.43	13.75
GROUP 2	$ 33.58	13.75
GROUP 3	$ 33.65	13.75
GROUP 4	$ 33.54	13.75

Truck drivers (LINCOLN and
WARREN COUNTIES)

GROUP 1	$ 32.08	13.75
GROUP 2	$ 33.23	13.75
GROUP 3	$ 32.30	13.75
GROUP 4	$ 32.19	13.75

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 05/01/2019

	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	$ 30.77	13.75
GROUP 2	$ 30.92	13.75
GROUP 3	$ 31.04	13.75
GROUP 4	$ 30.93	13.75
Truck drivers: (ATCHISON, BARRY, GENTRY, GRUNDY, HARRISON, HOLT, MCDONALD, MERCER, NODAWAY, OZARK, STONE, SULLIVAN, TANEY AND WORTH COUNTIES)		
GROUP 1	$ 30.04	13.75
GROUP 2	$ 30.19	13.75

GROUP 3.....$ 30.31 13.75
GROUP 4.....$ 30.20 13.75

Truck drivers; (BUCHANAN,
JOHNSON AND LAFAYETTE
COUNTIES)
GROUP 1.....$ 31.98 13.75
GROUP 2.....$ 32.13 13.75
GROUP 3.....$ 32.20 13.75
GROUP 4.....$ 32.09 13.75

TRUCK DRIVER CLASSIFICATIONS

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

GROUP 2: Agitator and transit mix-trucks.

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

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

TEAM0245-001 03/26/2012

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

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

PAID HOLIDAYS: New Year's Day, Decoration Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day, employee's

birthday and 2 personal days.

TEAM0541-001 04/01/2019

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 33.01	15.75
GROUP 2	$ 32.44	15.75
GROUP 3	$ 31.92	15.75

TRUCK DRIVERS CLASSIFICATIONS

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

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

GROUP 3: Oilers and Greasers - Field

TEAM0682-002 05/01/2017

ST LOUIS CITY AND COUNTY

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 33.30	13.79+a+b+c+d
GROUP 2	$ 33.50	13.79+a+b+c+d
GROUP 3	$ 33.60	13.79+a+b+c+d

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

b. HAZMAT PREMIUM: If Hazmat certification on a job site is

required by a state or federal agency or requested by project owner or by the employer, employees on that job site shall receive $1.50 premium pay.

TRUCK DRIVERS CLASSIFICATIONS

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

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

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

FOOTNOTE FOR TRUCK DRIVERS:

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

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

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

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union

average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

WAGE DETERMINATION APPEALS PROCESS

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

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

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

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

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

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request

review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

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

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

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

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

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

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END OF GENERAL DECISION"