



ADDENDUM NUMBER ONE

DATE: September 29, 2020

OWNER: City of Webster Groves, Missouri

SUBJECT: Addendum Number One to
Big Bend Boulevard Sidewalks Phase 1
Federal Project No. STP-5537(623)
Cochran Project No. SC17-674

This Addendum forms a part of the Bidding and Contract Documents and modifies the original Bidding Documents. **FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDUM MAY SUBJECT BIDDER TO DISQUALIFICATION.**

ITEM:

****BID DATE CHANGE** **BID FORM CHANGE****

1. **CHANGE:** Due to the changes in the plans and bid form associated with this addendum, the bid date is being changed. **NEW BID DATE: Tuesday, October 20, 2020 at 2:00 p.m. local time.** Bid opening location has not changed. Questions concerning the project will now be accepted until **Tuesday, October 13, 2020 at 4:00 p.m. via email only at mspalding@cochraneng.com.**
2. **REPLACE:** In the original Project Manual dated June 2020, the original Pages BF-1, BF-2 and BF-3, **BID FORM PROPOSAL**, with the enclosed **BID FORM PROPOSAL (ADDENDUM 1).**

EXPLANATION OF BID FORM CHANGES:

1. Changed label for item 7 to "Type "A" Concrete Vertical Curb"
 2. Added line item for "Segmental Transition"
 3. Removed line item for "Bikes May Use Full Lane Sign"
 4. Added line item for "St. Louis County Hand Hole, 17" x 30" (Replace)"
 5. Added line item for "St. Louis County Hand Hole, 17" x 30" (Replace and Relocate)"
3. **REPLACE:** In the original Project Manual dated June 2020, The Job Special Provisions in their entirety, with the enclosed **REVISED JOB SPECIAL PROVISIONS dated 9/21/2020.**

EXPLANATION OF JSP CHANGES:

1. Added JSP Section 32 – ST. LOUIS COUNTY HAND HOLES
4. **REPLACE:** The full set of plans dated June 2020 (all sheets) with the enclosed plans dated **SEPTEMBER 2020.**

EXPLANATION OF PLAN CHANGES:

1. Added St. Louis County notes "HT # 5549" and "20MSD-00309" to plan sheets.
2. Added Haul Route Information to plan cover sheet, including location on vicinity map.

3. Added various notes per St. Louis County to plan cover sheet. *Note contractor responsibility per issuance of Special Use Permit and Certificate of Insurance as required by St. Louis County.
 4. Added Stormwater Management Future Disturbance Note as required by MSD to plan cover sheet.
 5. Added note to Q-1 that this sheet was not part of St. Louis County review or approval.
 6. Added line items 30 and 31 to sheet Q-1 and bid form per St. Louis County.
 7. Added St. Louis County Benchmark Note to TS-1 and TS-2 per St. Louis County.
 8. Added additional information to Design Note 6 on LG-1 per St. Louis County.
 9. Added sheet LG-2 with "Maintenance of St. Louis County Traffic Signal Interconnect Facilities During Construction" notes per St. Louis County.
 10. Replaced note on TXS-1 calling for "Asphalt Patch" with "Type C Bituminous Concrete Wearing Surface" per St. Louis County.
 11. Provided segmental transition per St. Louis County Standard Drawing # C608.42 on Sheet S-1.
 12. Added elevations on ramp for ADA compliance on Sheet S-1 per St. Louis County.
 13. Labeled Type A Curb (typ) on curb return on ramp on Sheet S-1 per St. Louis County.
 14. Added Truncated Dome call out on sheet S-5 per St. Louis County.
 15. Revised label on concrete entrances on sheets S-1 to S-5 to "New Modified Commercial Entrance with Vertical Curb" for all entrances.
 16. Added signal facility and maintenance notes to sheet S-1 per St. Louis County.
 17. Revised Type S curb to Type A curb on sheet S-2 per St. Louis County.
 18. Revised ramp on sheet S-5 per St. Louis County.
 19. Added Segmental Transition on Sheet S-5 per St. Louis County.
 20. Added Truncated Dome Call Out on Sheet S-5 per St. Louis County.
 21. Provided spot elevations or ramp on Sheet S-5 per St. Louis County.
 22. Added note to SP-1 through SP-5 for contractor to coordinate signage with St. Louis County per St. Louis County.
 23. Removed Bikes May Use Full Lane sign on Sheet SP-2 and SP-4 as required by St. Louis County.
 24. Added note to Sheet L-1 requiring City of Webster Groves to be responsible for maintenance of lights per St. Louis County.
 25. Added note to L-5 to bore underground conduit under Big Bend Blvd.
 26. Added note to L-5 requiring a special use permit for work in St. Louis County right-of-way.
 27. Added note that the 2" Type C Bituminous Concrete Patch cost is to be included in the cost of the curb and gutter sheet C502.14.
 28. Changed Residential Concrete Entrances to Commercial Entrances and change to 7" nonreinforced P.C.C. pavement.
 29. Added note showing 2" Type C Bituminous Concrete Patch on Sheet DE-1.
 30. Removed Bike Sign on DE-2 as required by St. Louis County.
 31. Added note to coordinate signage with St. Louis County on Sheet DE-6 and DE-7.
 32. Added note that contractor to submit sediment and erosion control plan on sheet EC-1.
 33. Added elevations and slopes on sheet XS-1 thru XS-4.
5. REPLACE: In the Project Manual, the Federal and State Prevailing Wage Rates with the attached updated Federal and State Prevailing Wage Rates.

ATTACHMENTS: **BID FORM PROPOSAL (ADDENDUM 1), BF-1, BF-2 and BF-3**
 REVISED JOB SPECIAL PROVISIONS dated 9/21/2020
 REVISED PLAN SET DATED SEPTEMBER 2020
 Updated State Prevailing Wage Section
 Updated Federal Prevailing Wage Section

END ADDENDUM NO. 1

ARTICLE 10**BID FORM PROPOSAL (ADDENDUM 1)**PROJECT NAME: Big Bend Boulevard Sidewalks Phase 1 BID TIME: 2:00 p.m.PROJECT LOCATION: Webster Groves, Missouri BID DATE: 10/20/2020

BIDDER NAME: _____

TO: The City of Webster Groves, Missouri ("Owner")

In response to the Invitation for Bids for Project No. **STP-5537(623)**, and in accordance with the Instructions to Bidders and other Bidding Documents, the undersigned Bidder declares that he has had an opportunity to examine the site of the Work and has carefully examined the Contract Documents therefore, including the Addenda identified below, and on the basis thereof, and being fully familiar with the local conditions affecting the Work, and upon written notice of award of contract, acknowledges and agrees to provide all labor, material, equipment, tools, management and supervision, safety and technical services, insurance, bonds and incidentals necessary or required for the faithful performance of the Contract Work in accordance with the above-referenced documents in a safe, timely and workmanlike manner for the following Base Bid Price:

BASE BID:

Dollars

(Amount in Words)

(\$ _____)

DETERMINATION OF LOW BIDDER. The Low Bidder will be determined by the total of the Base Bid.**DETERMINATION OF DBE PERCENTAGE.** The DBE goal percentage will be based on the Base Bid total.**The Base Bid amount is more fully itemized as follows:**

BIDDER NAME: _____

ITEMIZED BID FORM

Bid No.	Spec. No.	Description	Unit	Quantity	Unit Cost	Extended Cost
1	1500	Mobilization	LS	1		
2	1500	Channelizers (Trimline)	EA	100		
3	2200	Removal of Improvements	LS	1		
4	2350	Silt Fence	LF	200		
5	2350	Inlet Check	EA	1		
6	5000	Concrete Curb and Gutter, 18"	LF	680		
7	5000	Type "A" Concrete Vertical Curb	LF	54		
8	Plans	Segmental Transition	SF	208		
9	5000	Modified Commercial Entrance with Vertical Curb (Remove and Replace)	SF	2,720		
					Sub-total Roadway Items	
10	1500	"Road Work Ahead" Sign (W20-1)	EA	4		
11	1500	"Shoulder Work Ahead" Sign (W21-5)	EA	2		
12	1500	"Flagger Symbol" Sign (W20-7a)	EA	2		
13	1500	"One Lane Road Ahead" Sign (W20-4)	EA	2		
14	1500	"End Road Work" Sign (G20-2)	EA	2		
15	1500	"Narrow Lanes" Sign (W5-5)	EA	2		
16	1500	"Sidewalk Closed" Sign (R9-9)	EA	6		
17	1500	"Sidewalk Closed Use Other Side" Sign (R9-10)	EA	4		
18	1500	Type 1 Barricade with Lights	EA	20		
19	1600	Changeable Message Sign	EA	2		
20	3200	Relocate Sign on New Post (or to Street Light)	EA	9		
					Sub-total Signing/Striping/Signals Items	

BIDDER NAME: _____

ITEMIZED BID FORM CONTINUED

Bid No.	Spec. No.	Description	Unit	Quantity	Unit Cost	Extended Cost
21	3200	Pedestrian Railing	LF	17		
22	5000	Concrete Sidewalk, 4"	SF	5,935		
23	5000	Exposed Aggregate Sidewalk, 4"	SF	1,745		
24	5000	Detectable Warning Devices	SF	40		
Sub-total Bicycle/Pedestrian Facility Items						
25	5900	Street Light Assembly	EA	10		
26	5900	Concrete Base for Street Lights Assembly	EA	10		
27	5900	Underground Cable in Conduit, (2" or 2-1/2")	LF	1,080		
28	5900	Hand Hole, 13" x 24"	EA	2		
29	5900	Load Center	EA	1		
30	JSP	St. Louis County Hand Hole, 17" x 30" (Replace)	EA	2		
31	JSP	St. Louis County Hand Hole, 17" x 30" (Replace and Relocate)	EA	1		
32	9000	Sodding	SY	100		
Sub-total Landscaping/Streetscaping Items						
Total Base Bid						

JOB SPECIAL PROVISIONS (ADDENDUM 1)

(Job Special Provisions shall prevail over all other contract documents whenever in conflict therewith.)

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9/21/2020

Date

Kevin J. Wolff, P.E., #2004000859
State of Missouri
Registered Professional Engineer for
Cochran

1. ORDER OF GOVERNING DOCUMENTS

In the event of any conflict or inconsistency in the Contract Documents, the ranking of the governing document shall be as follows:

1. Job Special Provisions
2. Owner Contractor Agreement
3. General Conditions of the Owner-Contractor Agreement
4. Project Specific Drawings
5. Technical Specifications
6. Current edition of the Missouri Standard Specifications for Highway Construction
7. Missouri Standard Drawings for Highway Construction

2. WORK ZONE TRAFFIC MANAGEMENT PLAN

Description. Work zone traffic management shall be in accordance with applicable portions of Division 100 and Division 600 of the current Missouri Standard Specifications for Highway Construction, and specifically as follows.

Traffic Management Schedule. Traffic management schedules shall be submitted to the engineer for review prior to the start of work and prior to any revisions to the traffic management schedule. The traffic management schedule shall include the proposed traffic control measures, hours traffic control will be in place, and work hours.

The contractor shall notify the engineer prior to lane closures or shifting traffic onto detours.

The engineer shall be notified as soon as practical of any postponement due to weather, material or other circumstances.

In order to ensure minimal traffic interference, the contractor shall schedule lane closures for the absolute minimum amount of time required to complete the work. Lanes shall not be closed until material is available for continuous construction and the contractor is prepared to diligently pursue the work until the closed lane is opened to traffic.

Traffic Congestion. The contractor shall, upon approval of the engineer, take proactive measures to reduce traffic congestion in the work zone.

Traffic Delay. The contractor shall be responsible for maintaining the existing traffic flow through the job site during construction. If disruption of the traffic flow occurs and traffic is backed up in queues of 15-minute delays or longer, then the contractor shall review the construction operations which contributed directly to disruption of the traffic flow and make adjustments to the operations to prevent the queues from occurring again.

Traffic Safety. Where traffic queues routinely extend to within 1000 feet (300 m) of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet (150 m) of the ROAD WORK AHEAD, or similar, sign on an undivided highway, the contractor shall extend the advance warning area, as approved by the engineer.

When a traffic queue extends to within 1000 feet (300 m) of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet (150 m) of the ROAD WORK AHEAD, or similar, sign on an undivided highway due to non-recurring congestion, the contractor shall deploy a means of providing advance warning of the traffic congestion, as approved by the engineer. The warning location shall be no less than 1000 feet (300 m) and no more than 0.5 mile (0.8 km) in advance of the end of the traffic

queue on divided highways and no less than 500 feet (150 m) and no more than 0.5 mile (0.8 km) in advance of the end of the traffic queue on undivided highways.

Work Hour Restrictions. There are three major summer holiday periods: Memorial Day, Independence Day, and Labor Day. All lanes shall be scheduled to be open to traffic during these holiday periods, from 12:00 noon on the last working day preceding the holiday until 9:00 a.m. on the first working day subsequent to the holiday.

The contractor shall not perform any construction operation on the (roadway, roadbed or active lanes), (including the hauling of material within the project limits), during restricted periods, holiday periods or other special events specified in the contract documents.

The contractor shall provide changeable message signs notifying motorists of future traffic disruption and possible traffic delays one week before traffic is shifted to a detour or prior to lane closures. The changeable message sign shall be installed at a location as approved or directed by the engineer.

Payment for all costs incurred in handling traffic during construction other than as provided for in the bid form will be considered incidental to the construction of the project.

3. PROJECT CONTACT FOR CONTRACTOR/BIDDER QUESTIONS

All questions concerning this project during the bidding process shall be forwarded to the project contact listed below:

*Mike Spalding
mspalding@cochraneng.com*

4. EMERGENCY PROVISIONS AND INCIDENT MANAGEMENT

The contractor shall have communication equipment on the construction site or immediate access to other communication systems to request assistance from the police or other emergency agencies for incident management. In case of traffic accidents or the need for police to direct or restore traffic flow through the job site, the contractor shall notify police or other emergency agencies immediately as needed. The engineer's office shall also be notified when the contractor requests emergency assistance.

Cochran
Gary Scheipeter
(636) 249-4627

City of Webster Groves
Todd Rehg, P.E.
Director of Public Works
(314) 963-5339

In addition to the 911 emergency telephone number for ambulance, fire or police services, the following agencies may also be notified for accident or emergency situation within the project limits.

Webster Grove Fire Department
(314) 963-5345

Webster Groves Police Department
(314) 963-5402

Missouri Highway Patrol
(314) 340-4000

This list is not all inclusive. Notification of the need for wrecker or tow truck services will remain the responsibility of the appropriate police agency.

The contractor shall notify enforcement and emergency agencies before the start of construction to request their cooperation and to provide coordination of services when emergencies arise during the construction at the project site. When the contractor completes this notification with enforcement and emergency agencies, a report shall be furnished to the engineer on the status of incident management.

No direct pay will be made to the contractor to recover the cost of the communication equipment, labor, materials or time required to fulfill the above provisions.

5. Guidelines for Obtaining Environmental Clearance for Project Specific Locations

This article provides guidelines for obtaining environmental clearance for disturbed areas such as:

Borrow Sites, Haul Roads, Burn Pits, Staging Areas and Spoil Sites at project-specific locations.

The necessary clearances for disturbed areas such as those referenced above shall be obtained prior to using these areas for projects. The contractor is encouraged to consider using material from previously disturbed locations (substantial disturbance) or disturbed areas that have previously been cleared, precluding the need to address most, if not all, of the issues described below. The contractor should include the federal project number on all correspondence. The following addresses the primary environmental issues related to clearance of disturbed areas such as borrow sites:

1. The Endangered Species Act

The Federal Endangered Species Act protects rare species and their habitats. The U.S. Fish and Wildlife Service (USFWS) administers the Act. Violations of this act can result in extensive project delays and severe fines. To determine if an activity will impact any rare species or their habitats, contact the Missouri Department of Conservation's Policy and Coordination Section at (573) 751-4115 to request a query of the MDC Heritage Database. All queries must be accompanied by a good quality map illustrating the location of the proposed site with a description of the activity. Allow at least three weeks for a response to all requests.

If there are no known records of rare species or sensitive habitats at the proposed site, and it is unlikely that any will be impacted by the activity, the contractor will be given clearance to proceed. However, if rare species are known or likely to occur at the site, or known critical habitat exists, further coordination with MDC and the USFWS will be necessary. Written clearance from the U.S. Fish and Wildlife Service may be required before the project can proceed.

Missouri Department of Conservation (MDC)
Planning Division
P.O. Box 180
Jefferson City MO 65102-0180
Telephone Number (573) 751-4115 or FAX (573) 751-4495

U.S. Fish and Wildlife Service (FWS)
Columbia Field Office
101 Park DeVille Drive - Suite A
Columbia, MO 65203-0007
Telephone Number (573) 234-2131 or Fax (573) 234-2182

2. Floodplain/Regulatory Floodway

An evaluation of floodplain impacts is mandated by Executive Order 11988, Floodplain Management, and subsequent federal floodplain management guidelines. When available, flood hazard boundary maps ([National Flood Insurance Program](#)) and flood insurance studies for the project area are used to determine the limits of the base (100-year) floodplain and the extent of encroachment.

The Federal Emergency Management Agency (FEMA) and Federal Highway Administration (FHWA) guidelines 23 CFR 650 have identified the base (100-year) flood as the flood having a one percent probability of being equaled or exceeded in any given year. The base floodplain is the area of 100-year flood hazard within a county or community. The [regulatory floodway](#) is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 100-year flood discharge can be conveyed without increasing the base flood elevation more than a specified amount. FEMA has mandated that projects can cause no rise in the regulatory floodway, and a one-foot cumulative rise for all projects in the base (100-year) floodplain. For projects that involve the state of Missouri, the State Emergency Management Agency (SEMA) issues [floodplain development permits](#). In the case of projects proposed within regulatory floodways, a "[No-Rise](#)" Certification, if applicable, should be obtained prior to issuance of a permit.

Questions regarding floodplain and regulatory floodway should be addressed to:

SEMA
P.O. Box 116
Jefferson City, MO 65102
(573) 526-9141

Documentation of consultation with SEMA regarding the presence of 100-year floodplain/regulatory floodway should be included in the final collection of information to be submitted to MoDOT staff.

3. Federal Emergency Management Agency (FEMA) Buyout Lands

The Flood Disaster Protection Act of 1973, as amended by the Disaster Relief and Emergency Assistance Act of 1988 (The Stafford Act), identified the use of disaster relief funds under Section 404 for the Hazard Mitigation Grand Program (HMGP), including the acquisition and relocation of flood damaged property. The Volkmer Bill further expanded the use of HMGP funds under Section 404 to "buy out" flood damaged property, which had been affected by the Great Flood of 1993.

There are numerous restrictions on these FEMA buyout properties. No structures or improvements may be erected on these properties unless they are open on all sides. The site shall be used only for open space purposes, and shall stay in public ownership. These conditions and restrictions (among others), along with the right to enforce same, are deemed to be covenants running with the land in perpetuity and are binding on subsequent successors, grantees, or assigns. Any decision involving these properties should take into consideration that 2-3 years is necessary to process an exemption from FEMA to utilize this parcel. This exemption would likely be a permanent easement rather than a transfer of property. If any proposed site is located on a FEMA buyout property, an alternative site should be chosen.

4. Farmland Protection

In order to comply with the Farmland Protection Policy Act, which has the purpose of minimizing Federal programs' contributions to the unnecessary and irreversible conversion of farmland caused by nonagricultural uses, the Form AD-1006 will need to be completed. This can be accomplished through coordination with United States Department of Agricultural (USDA)-Natural Resources Conservation Service (NRCS), and the completion of Form AD-1006. To receive the Form AD-1006, call the NRCS State office in Columbia at (573) 876-9411. An aerial map of the site or sites will also be required with

the area to be disturbed identified on the map. This aerial map can be obtained from the local SCS office. In some areas of the state this office may be located in an adjoining county.

The contractor will need to complete Parts I and III of Form AD-1006. The form should then be sent to the NRCS State Office for completion of Parts II, IV and V. The address for NRCS State Office is:

Mr. Dennis Potter
State Soil Scientist
Natural Resource Conservation Service
601 Business Loop 70 West
Parkade Center, Suite 250
Columbia, MO 65203
1-573-876-9411

After the NRCS office returns the form, the contractor will complete remaining Parts VI and VII. The contractor will provide a copy of the completed form to the MoDOT district contact to document compliance with the Farmland Protection Policy Act.

5. Wetlands

Federal executive order has decreed a national policy of "no net loss of wetlands." Under this policy, impacts to wetlands must be avoided if at all practical. Where wetlands are impacted, these impacts must be mitigated by construction or enhancement of a like quantity **and** quality of new wetlands. For these reasons, avoiding impacts to wetlands is a primary goal.

To determine whether wetlands occur on a site, contact the USDA, NRCS. The NRCS has identified and mapped wetlands as a requirement under the Food Security Act. These maps are available from county NRCS offices, usually located in the county seat. For all other non-farmland sites, consult the [US Fish and Wildlife Service's Wetlands Map](#). If wetlands are identified on Food Security Act wetland maps, a site visit may be needed to confirm the location of wetlands. If there are no wetland impacts, no other action need be taken.

If there are any questions about the extent of wetlands in the event that wetlands cannot be avoided, contact the U.S. Army Corps of Engineers (COE). If wetlands cannot be avoided, a COE Section 404 permit would be processed through the appropriate COE district. There are five COE districts in Missouri. Information about COE district locations, addresses and phone numbers is available on [the COE website](#).

6. Water Quality/Land Disturbance

The National Pollutant Discharge Elimination Systems (NPDES) program regulates construction activities where 1 acre or more of land is disturbed. If the project proponent has a general NPDES permit for all of their construction activities, this is adequate. If the project proponent does not have a valid general permit and the site to be disturbed is greater than 1 acre in size, a project-specific NPDES permit from DNR is required. If the project is entirely within MoDOT right of way, the sponsor may use MoDOT's general permit. In either case, the sponsor will need to develop a site-specific stormwater pollution prevention plan for the project. The sponsor shall contact the Missouri Department of Natural Resources (DNR) NPDES Storm Water Program office at (573) 751-1300 or (800) 361-4827 for further directions. A few cities (Kansas City, Columbia, and others) and counties have obtained their own land disturbance permits from DNR for generic land disturbance purposes; see additional discussion on stormwater and erosion control in 136.4 Environmental and Cultural Requirements of the LPA Policy.

7. Hazardous Waste Sites

More than likely, areas to be disturbed will be located in rural areas that have been used for agriculture or similar purposes. Hazardous wastes are most typically associated with commercial or previous industrial properties.

If the proposed area is basically farmland or pasture, and has not been used for any commercial activity or dumping, hazardous wastes are unlikely. The contractor should simply document the existing and historic land use of the parcel and tell how this assessment was obtained.

In nonrural, suburban or commercial areas a nonintrusive investigation may be used to "diagnose" the environmental conditions of a selected site. The following is a list of suggested items, but not inclusive, for a cursory nonintrusive investigation.

- Examine any noticeable contamination in the form of surface staining, oil sheen, odors, stressed vegetation, spills, leaks, illegal dumping, etc.
- Conduct interviews of local citizens and current owners to identify past land use practices and hazardous waste management practices.
- Consult with local and state (Missouri Department of Natural Resources, Hazardous Waste Program, 573-751-3176) environmental regulatory agencies to identify if any past problems (complaints, citations, etc.) have occurred at the site, if any permits/licenses have been filed for the site, or if enforcement actions have occurred.

If the above analyses produce negative results, the contractor should provide documentation to the MoDOT Design Division-Environmental Section as to who was contacted and the results of the contact. However, if through the search for information described above, potential problems are identified, it would be wise to locate another site.

The potential to encounter wastes from sites that are unknown should always be a consideration. Any unknown sites that are found will be handled in accordance with Federal and State Laws and Regulations.

8. Historic Preservation

All jobs requiring environmental clearance for historic preservation (archaeological sites, buildings, and structures) must be reviewed and approved by the State Historic Preservation office (SHPO), Department of Natural Resources. To initiate SHPO's review and clearance of a proposed site for cultural resources, a "Section 106 Project Information Form" must be completed and submitted to SHPO along with a copy of a United States Geological Survey (USGS) topographic map indicating the location of the project. In addition, photographs of any structures that will be impacted must be provided. The "Section 106 Project Information Form" can be obtained from the SHPO website or requested from the SHPO by telephone, (573) 751-7858, or mail:

Missouri Department of Natural Resources
State Historic Preservation Office
Attn: Section 106 Review
P.O. Box 176
Jefferson City, MO, 65102-0176

Based on the information supplied, SHPO may clear the project at that time or request that the contractor acquire the services of an archaeological consultant to conduct a historic preservation survey of the proposed area. A listing of currently acceptable and available archaeological consultants who can

complete a survey if required can be viewed at the SHPO's website. Any questions can be directed to the Design Division-Historic Preservation Section, at (573) 751-0473.

9. Public Land

If borrow sites are proposed on any publicly owned land, contact the MoDOT district representative before proceeding. Section 4(f) of the Department of Transportation Act of 1966 (now codified as 49 U.S.C. 303 and 23 U.S.C. 138) protects certain public lands. Section 4(f) requires that all U.S. DOT-funded transportation projects must avoid impacts to public parkland and wildlife refuges (and cultural resources deemed eligible for the National Register of Historic Places), unless it is successfully demonstrated that no feasible and prudent alternative exists that avoid "use" or impacts to the park or refuge. It is strongly recommended that public lands not be considered as potential borrow sites.

Once the contractor has obtained all of the above information, it should be provided to the MoDOT district contact. The transmittal letter must include **county, route and job number** of the project, along with a map depicting the location and limits of the site(s).

6. LPA BUY AMERICA REQUIREMENTS

106.9 Buy America Requirement. On all federal-aid projects, the contractor's attention is directed to Title 23 CFR 635.410 Buy America Requirements. Where steel or iron products are to be permanently incorporated into the contract work, steel and iron material shall be manufactured in the USA except for "minor usage" as described herein. Furthermore, any coating process of the steel or iron shall be performed in the USA. The use of pig iron and processed, pelletized and reduced iron ore manufactured outside of the USA will be permitted in the domestic manufacturing process for steel or iron material.

106.9.1 Any sources other than the USA as defined will be considered foreign. The required domestic manufacturing process shall include formation of ingots and any subsequent process. Coatings shall include any surface finish that protects or adds value to the product.

106.9.2 "Minor usage" of foreign steel, iron or coating processes will be permitted, provided the cost of such products does not exceed 1/10 of one percent of the total contract cost or \$2,500.00, whichever is greater. If foreign steel, iron or coating processes are used, invoices to document the cost of the foreign portion, as delivered to the project, shall be provided and the engineer's written approval obtained prior to placing the material in any work.

106.9.3 Buy America requirements include a step certification for all fabrication processes of all steel or iron materials that are accepted per Sec 1000.

106.9.3.1 Items designated as Category 1 will consist of steel girders, piling, and reinforcing steel installed on site. Category 1 items require supporting documentation prior to incorporation into the project showing all steps of manufacturing, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410 Buy America Requirements. This includes the Mill Test Report from the original producing steel mill and certifications documenting the manufacturing process for all subsequent fabrication, including coatings. The certification shall include language that certifies the following. That all steel and iron materials permanently incorporated in this project was procured and processed domestically and all manufacturing processes, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410.

106.9.3.2 Items designated as Category 2 will include all other steel or iron products not in Category 1 and permanently incorporated in the project. Category 2 items shall consist of, but not be limited to items such as fencing, guardrail, signing, lighting and signal supports. The prime contractor is required to submit a material of origin form certification prior to incorporation into the project from the fabricator for each item that the product is domestic. The Certificate of Materials Origin form ([link to certificate form](#))

from the fabricator must show all steps of manufacturing, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410 Buy America Requirements and be signed by a fabricator representative. The Engineer reserves the right to request additional information and documentation to verify that all Buy America requirements have been satisfied. These documents shall be submitted upon request by the Engineer and retained for a period of 3 years after the last reimbursement of the material.

106.9.3.3 Any minor miscellaneous steel or iron items that are not included in the materials specifications shall be certified by the prime contractor as being procured domestically. Examples of these items would be bolts for sign posts, anchorage inserts, etc. The certification shall read "I certify that all steel and iron materials permanently incorporated in this project during all manufacturing processes, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410 Buy America Requirements procured and processed domestically in accordance with CFR Title 23 Section 635.410 Buy America Requirements. Any foreign steel used was submitted and accepted under minor usage". The certification shall be signed by an authorized representative of the prime contractor.

106.9.4 When permitted in the contract, alternate bids may be submitted for foreign steel and iron products. The award of the contract when alternate bids are permitted will be based on the lowest total bid of the contract based on furnishing domestic steel or iron products or 125 percent of the lowest total bid based on furnishing foreign steel or iron products. If foreign steel or iron products are awarded the contract, domestic steel or iron products may be used; however, payment will be at the contract unit price for foreign steel or iron products.

7. UTILITIES JSP

For informational purposes only, the following is a list of names, addresses, and telephone numbers of the known utility companies in the area of the construction work for this improvement:

Utility Name

Missouri American Water Company
727 Craig Road
St. Louis, MO 63141
(314) 713-4095

Spire
720 Olive Street
St. Louis, MO 63101
(314) 768-7767

Ameren Missouri
9823 Mackenzie Road
St. Louis, MO 63123
(314) 992-9713

AT&T
13075 Manchester Road
Des Peres, MO 63131
(314) 957-6049

Charter
815 Charter Commons
Town and Country, MO 63017
(636) 387-6663

Known Required Adjustment

Clayton Monroe was contacted in June 2020. There are two fire hydrants that are being relocated by the water company. They have committed to relocating them by the end of 2020 prior to construction starting. Contractor is required to make minor adjustment to grade of existing meters as shown on plans.

Spire has been notified of the work and has facilities with the project limits. No conflicts are expected due to the nature of the work. Contractor is required to make minor adjustment to grade of existing valves as shown on plans

Tim Mueth was contacted in June 2018. Ameren has a relocation plan in place and it waiting for approval from St. Louis County to begin. New locations are shown on the plans and no conflicts are expected. Work is expected to be completed prior to beginning this project.

Tim Manville was contacted in July 2018. All facilities are on Ameren poles that are being relocated. Work is waiting on County approval and is expected to be completed prior to construction beginning the project.

Ron Williams was contacted in August 2018. All facilities are on Ameren poles that are being relocated. Work is waiting on County approval and is expected to be completed prior to construction beginning the project.

St. Louis County Traffic
1050 N. Lindbergh Blvd.
St. Louis, MO 63132
(314) 615-8504

James Knoll was contacted in December 2019. Contractor will be required to make minor adjustments to existing hand holes and relocate one hand hole as shown on the plans.

The existence and approximate location of utility facilities known to exist, as shown on the plans, are based upon the best information available to the City at this time. This information is provided by the City "as-is" and the City expressly disclaims any representation or warranty as to the completeness, accuracy, or suitability of the information for any use. Reliance upon this information is done at the risk and peril of the user, and the City shall not be liable for any damages that may arise from any error in the information. It is, therefore, the responsibility of the contractor to verify the above listing information indicating existence, location and status of any facility. Such verification includes direct contact with the listed utilities.

The contractor agrees that any effects of the presence of the utilities, their relocation, contractor's coordination of work with the utilities and any delay in utility relocation shall not be compensable as a suspension of work, extra work, a change in the work, as a differing site condition or otherwise including but, without limitation, delay, impact, incidental or consequential damages. The contractor's sole remedy for the effects of the presence of utilities, delay in their relocation or any other effects shall be an excusable delay as provided in Section 105.7.3. The contractor waives, for itself, its subcontractors and suppliers the compensability of the presence of utilities, delay in their relocation and any cost to the contractor, its subcontractors and suppliers in any claim or action arising out of or in relation to the work under the contract.

The contractor shall be solely responsible and liable for incidental and consequential damage to any utility facilities or interruption of the service caused by it or its subcontractors operation. The contractor shall hold and save harmless the City from damages to any utility facilities interruption of service by it or its subcontractor's operation.

In the event that it is determined that there is a previously unknown conflict with an existing Utility, the Contractor shall immediately stop work at that location and notify the City. The Contractor will be required to coordinate with the conflicting Utility as necessary to remedy the conflict. No direct payment will be given for the coordination beyond that which is already provided for with existing unit cost bid items, however the Contractor may be given additional calendar days based on the duration of time that it takes the Utility Company to relocate their facilities.

8. MOBILIZATION JSP

See Section 1500 – Mobilization and Traffic Control of the Technical Specifications for all requirements.

9. REMOVAL OF IMPROVEMENTS JSP

See Section 2200 – Removal of Improvements of the Technical Specifications for all requirements.

10. ADA COMPLIANCE AND FINAL ACCEPTANCE OF CONSTRUCTED FACILITIES – JSP-10-01A

1.0 Description. The contractor shall comply with all laws pertaining to the Americans with Disabilities Act (ADA) during construction of pedestrian facilities on public rights of way for this project. An ADA Checklist is provided herein to be utilized by the contractor for verifying compliance with the ADA law. The contractor is expected to familiarize himself with the plans involving pedestrian facilities and the ADA Post Construction Checklist prior to performing the work.

2.0 ADA Checklist. The contractor can locate the ADA Checklist form on the Missouri Department of Transportation website:

http://www.modot.mo.gov/business/contractor_resources/forms.htm

2.1 The ADA Checklist is intended to be a helpful tool for the contractor to use during the construction of the pedestrian facilities and a basis for the commission's acceptance of work. Prior to work being performed, the contractor shall bring to the engineer's attention any planned work that is in conflict with the design or with the requirement shown in the checklist. Situations may arise where the checklist may not fully address all requirements needed to construct a facility to the full requirements of current ADA law. In those situations, the contractor shall propose a solution to the engineer that is compliant with current ADA law using the following hierarchy of resources: 2010 ADA Standards for Accessible Design, Draft Public Rights of Way Accessibility Guidelines (PROWAG) dated November 23, 2005, MoDOT's Engineering Policy Guidelines (EPG), or a solution approved by the U.S. Access Board.

2.2 It is encouraged that the contractor monitor the completed sections of the newly constructed pedestrian facilities in attempts to minimize negative impacts that his equipment, subcontractors or general public may have on the work. Completed facilities must comply with the requirements of ADA and the ADA Checklist or have documented reasons for the non-complaint items to remain.

3.0 Coordination of Construction.

3.1 Prior to construction and/or closure on an existing pedestrian path of travel, the contractor shall submit a schedule of work to be constructed, which includes location of work performed, the duration of time the contractor expects to impact the facility and an accessible signed pedestrian detour compliant with MUTCD Section 6D that will be used during each stage of construction. This plan shall be submitted to the engineer for review and approval at or prior to the pre-construction conference. Accessible signed detours shall be in place prior to any work being performed that has the effect of closing an existing pedestrian travel way.

3.2 When consultant survey is included in the contract, the contractor shall use their survey crews to verify that the intended design can be constructed to the full requirements as established in the 2010 ADA Standards. When 2010 ADA Standards do not give sufficient information to construct the contract work, the contractor shall refer to the PROWAG.

3.3 When consultant survey is not included in the contract, the contractor shall coordinate with the engineer, prior to construction, to determine if additional survey will be required to confirm the designs constructability.

4.0 Final Acceptance of Work. The contractor shall provide the completed ADA Checklist to the engineer at the semi-final inspection. ADA improvements require final inspection and compliance with the ADA requirements and the ADA Checklist. Each item listed in the checklist must receive either a "YES" or an "N/A" score. Any item receiving a "NO" will be deemed non-compliant and shall be corrected at the contractor's expense unless deemed otherwise by the engineer. Documentation must be provided about the location of any non-complaint items that are allowed to remain at the end of the construction project. Specific details of the non-complaint items, the ADA requirement that the work was not able to comply with, and the specific reasons that justify the exception are to be included with the completed ADA Checklist provided to the engineer.

4.1 Slope and grade measurements shall be made using a properly calibrated, 2 foot long, electronic digital level approved by the engineer.

5.0 Basis of Payment. The contractor will receive full pay of the contract unit cost for all sidewalk, ramp, curb ramp, median, island, approach work, cross walk striping, APS buttons, pedestrian heads, detectable warning systems and temporary traffic control measures that are completed during the current estimate period as approved by the engineer. Based upon completion of the ADA Checklist, the contractor shall complete any necessary adjustments to items deemed non-compliant as directed by the engineer.

5.1 No direct payment will be made to the contractor to recover the cost of equipment, labor, materials, or time required to fulfill the above provisions, unless specified elsewhere in the contract documents.

11. ALTERED QUANTITIES

The engineer reserves the right to make, in writing, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project. Such changes in quantities and alterations shall not invalidate the contract nor release the surety, and the contractor agrees to perform the work as altered.

See **MATERIAL CHANGES IN THE SCOPE OF WORK** in the General Conditions of this Project Manual for full details.

12. INCIDENTAL ITEMS

Project coordination, preliminary site investigation, submittal requirements, general administrative duties, scheduling and product shipping and handling are considered incidental to the contract and no direct payment will be made for this work.

A partial list of work items to be considered incidental to the construction shall include, but not be limited to:

- Any traffic control items, other than those listed in the bid form, necessary to meet the standards of the MUTCD shall be considered incidental to the contract.
- All Pavement Edge Treatment necessary for the elimination of any pavement edge differential to be in accordance with MoDOT Standards.
- Clearing, Grubbing and Stripping as defined in Section 2000.
- Protection of trees.
- Temporary walkways and bridges.
- Earthwork
- Hauling and disposal off site of all excavated material, regardless of type.
- Concrete footings for new signs or sign relocations.
- All utility adjustments.
- Any saw cutting.
- Aggregate base for concrete pavement/sidewalk.
- Joint sealing.
- Reinforcing steel work.
- Construction site cleanup.
- Temporary Concrete Washout Facilities
- Temporary pavement markings.
- Maintenance of lawns or landscaping as required in the specifications.

If there is no line item shown in the Itemized Bid Form, any work shown in the Plans or Project Manual shall be considered as a subsidiary obligation of the Contractor covered under the other contract items.

13. CONTRACTORS DAILY WORK SCHEDULE

Work hours will be 7:00 a.m. through 7:00 p.m., Monday through Friday. All other times shall be preapproved by the Owner at least 48 hours in advance of work.

In all cases, the Contractor shall notify the Engineer sufficiently in advance of operations, in order to provide for suitable inspection of the preparation work performed by the Contractor. In no case shall the Contractor be permitted to begin operations without prior approval by the Engineer.

The Engineer shall be notified as soon as practical of any postponement due to weather, material or other circumstances.

The Contractor shall submit the entire and completed project construction schedule to the Engineer one week prior to the pre-construction meeting. The schedule will specifically identify the order of the work, and will be used as a tool to communicate the order and phasing of construction activities with the residents, property owners, and business owners in the area.

14. CONTRACT DAYS – ADVERSE WEATHER

Section 108.8 of the current edition of the Missouri Standard Specifications for Highway Construction shall be modified as follows:

If at some point during the provided contract days it is mutually agreed upon between the Owner and Contractor that adverse weather conditions will be in effect for an extended period of time during the winter months, the Owner will provide a written document of record temporarily stopping the counting of contract days until a time, as determined mutually by the Owner and Contractor, that the adverse weather has passed.

During this stoppage, with prior approval from the Owner, the contractor may continue with construction activities; however any days worked will count towards the contract time. Any work allowed during this stoppage would have minimal impact on the residents, business owners and traveling public.

Once the adverse weather period has passed, but no later than April 1, the Owner will provide another written document of record starting the contract days again.

Additional requests for extensions of time, for periods within an adverse weather contract day stoppage will not be approved.

15. CONSTRUCTION ACTIVITY/NOTIFICATION LETTERS

The Contractor will be required to notify affected property owners, by letter, at the start of construction and prior to each major construction activity. This project will have two categories of construction requiring letters:

- 1) Beginning of construction
- 2) Sidewalk, driveway, and curb installation

If any phase of the work occurs concurrently with another phase, one letter may address both phases.

The Contractor shall mail or hand-deliver each letter one week prior to each phase. Letters shall be given to each household and business to be affected by construction.

The letters should give an expected start date and timeframe, and state that there could be delays due to weather. In the event of delays of more than three days, a new letter shall be delivered. The Engineer shall approve all letters prior to distribution.

16. WORKING ROOM LIMITS OF CONSTRUCTION ACTIVITY

Disrupted Area Limits (2,000' at a time) – the Contractor shall maintain construction activities within 2,000' increments on one side of the road at a time.

Moving Forward @ 500' Increments – the Contractor will be allowed to move forward in 500' increments, but only after the first 500' increment is complete and restored (with the exception of sodding

activities as described below). This will maintain the 2000' construction activity limit. Complete and restored – will be defined as sidewalk and curb installation, and the 500' section has been prepared for restoration operations.

Sodding Activity Limits – complete sodding activities shall be performed within 4000' of removal/excavation activities.

The Contractor shall include the sequence of the 2,000' working limits in the construction schedule to be submitted prior to the pre-construction conference.

17. CHANGEABLE MESSAGE SIGNS

The Contractor shall provide a minimum of two changeable message signs for the duration of the construction.

The Contractor shall be responsible to update the changeable message signs on a daily basis. The language shall be pre-approved by the Engineer in an effort to effectively communicate, in advance, the future traffic disruption and possible traffic delays.

Messages regarding lane closures, street cuts, and paving operations; shall be posted at least a week in advance.

Changeable message signs will be located at strategic locations at both ends of the construction activity, as approved by the Engineer.

18. LANE CLOSURES

Lane closures will be allowed during construction operations when deemed necessary and approved by the City. At all other times, the contractor shall be required to maintain two lane, two way traffic.

The Contractor will be required to provide a minimum of two competent flagmen during lane closures. One lane of roadway, with two-way traffic, shall be maintained at all times during lane closure activities.

19. PAVEMENT EDGE TREATMENT

This work shall consist of the elimination of pavement edge differential as defined in MoDOT standards. When necessary, wedge slopes shall be constructed of an approved material or an approved preformed unit. At the contractor's option, elimination of pavement edge differential may be accomplished by either conducting operations in such a manner that traffic is exposed to no more than a two-inch differential, by constructing a wedge-shaped slope adjacent to the pavement edge or by furnishing and installing a temporary concrete traffic barrier. No direct measure or payment shall be made for this work as it shall be considered incidental to the contract and a subsidiary obligation of the contractor.

20. RELOCATIONS AND ADJUSTMENTS TO GRADE

Contractor shall relocate all existing signs, planters, mailboxes, and private lights as necessary for the construction of the improvements. New locations shall be as directed by the engineer. See the removal of improvements section in the specifications.

Contractor shall adjust to grade all utilities necessary to bring the utility to the grade of the new pavement. See the utility adjustment section of the specifications.

21. TEMPORARY CONCRETE WASHOUT FACILITIES

Temporary concrete washout facilities are used to contain concrete liquids when the chutes of concrete trucks are rinsed out after delivery of concrete to the construction site. Failure to comply with the following washout location requirements will result in an immediate stop work order.

The Contractor must submit a plan of their proposed temporary concrete washout facility to the Engineer for approval at least 10 days prior to the first concrete pour. Temporary concrete washout facilities are to be in place before any delivery of concrete to the construction site. Temporary concrete washout facilities are to be located at least 50 feet from storm drain inlets, open drainage facilities, or water bodies. Each facility is to be located away from construction traffic or access areas to prevent disturbance or tracking. A sign is to be installed adjacent to each temporary concrete washout facility to inform concrete equipment operators of the designated washout facility and the foreman onsite shall instruct the operators of its location.

Two types of temporary concrete washouts are allowable for use:

1. Prefabricated Portable Facilities
2. Non-Portable Facilities
 - a) Above Grade
 - Constructed using straw bales or a wood frame, and polyethylene sheeting.
 - Straw bales or wood frames are used to create a berm then lined with a single sheet of 10-mil polyethylene sheeting which is free of holes, tears, or other defects which may compromise the impermeability of the material.
 - Sheeting must extend over the entire basin and berm to prevent escape of discharge.
 - b) Below Grade
 - Constructed via excavation and the use of polyethylene sheeting and sandbags.
 - A pit is first excavated in a designated location and then lined with a single sheet of 10-mil polyethylene sheeting which is free of holes, tears, or other defects which may compromise the impermeability of the material.
 - Sand bags are then to hold the sheeting in place.

The number and size of each washout facility is to be determined by the contractor. It is their responsibility to provide enough storage for the excess concrete and water produced on the project.

Temporary concrete washout facilities are to be inspected by the Contractor during their weekly erosion and sediment control inspection, after a storm event of ½" or greater and at the end of any day when concrete has been poured on the construction site. The Engineer will also make periodic inspections. The Contractor is to ensure that there are no leaks, no spills and that the facilities capacity has not yet been compromised. Any overflowing of the washout facilities onto the ground must be cleaned up and removed within 24 hours of discovery. If a rain or snow event is forecasted, a non-collapsing, non-water collecting cover shall be placed over the washout facility and secured to prevent accumulation and overflow of precipitation. Contents of each concrete washout facility are not to exceed 75% of its designed capacity. If the contents reach 75% capacity, discontinue pouring concrete into the facility until it has been cleaned out. Allow slurry to evaporate or remove from the site in a safe manner (i.e. vacuum truck). All hardened material can then be removed and disposed of properly. If a lined basin is used, immediately replace the liner if it becomes damaged. Remove temporary concrete washout facilities when they are no longer needed and restore the disturbed areas to their original condition.

Payment for the temporary concrete washout facilities and any restoration of that area is considered an obligation of the Contractor and incidental to the contract, therefore no direct payment will be made for this work.

22. NO PARKING SIGNS

The Contractor shall be responsible to deliver notification to the residents regarding no parking on streets prior to operations. Temporary "No Parking" signs noting the date of construction activity shall be provided and installed at minimum intervals of 100 feet and maximum intervals of 200 feet, 48 hours in advance of work. The signs will be supplied by the Contractor and shall be approved by the Engineer prior to placement. The signs shall show the date and, if appropriate, the times of the parking restrictions.

The signs will be removed and properly disposed of by the Contractor approximately two (2) hours after construction activities have been completed or as directed by the Engineer.

23. DRIVEWAY APPROACH ACCESS

The Contractor shall notify any Business or Residence by letter, one week prior to beginning construction that is expected to affect or limit access.

The Contractor shall schedule his work such that at no time during the life of this Contract will any driveway be denied access for any reason other than the curing of the pavement.

If a Business or Property owner has two entrances, only one entrance will be allowed to be reconstructed at a time.

The Contractor shall be responsible for maintaining access to all side roads, commercial and private entrances at all times during construction, unless full entrance closure is allowed as noted below.

Commercial and Private Entrances (**20' wide or less**) – excavation shall be completed in one calendar day. Immediately following excavation activities, Contractor shall provide Temporary Access. Concrete forming and pouring shall be completed in one calendar day. Concrete shall contain high early strength additives and must achieve a strength of 3,500 psi in three days.

Commercial Entrances (**greater than 20' wide**) – shall be constructed one half at a time. Excavation, forming and pouring activities for each half shall follow time constraints listed above. Concrete shall contain high early strength additives and must achieve a strength of 3,500 psi in three days.

For all Commercial and Private Entrances, the time from the beginning of excavation to the pouring of the driveway approach shall not exceed 14 days.

Temporary Access – MoDOT specified Type 5 aggregate, at a minimum thickness of 6" compacted, shall be used for temporary access and shall be considered incidental to the contract. Contractor shall install and compact the Type 5 aggregate in a sufficient manner, and to the Engineer's satisfaction; to prevent vehicle bottoms scraping the roadway, driveway, and parking lots. No separate payment will be made for the placement, maintenance or removal of said access. If said access is not supplied as set out above, the City will supply said access with its own forces, without notification to the Contractor, and will deduct such costs from the sums due the Contractor.

24. CLEANING UP

The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. The Contractor shall not "stockpile" any material on the job site.

At the end of each work day the Contractor shall remove all remaining waste materials from and about the project as well as all tools, construction equipment, machinery and surplus materials, and shall clean all surfaces (streets, sidewalks, curbs, tree boxes, private property, and cars) and leave the job site

"broomclean" or its equivalent. **Failure to comply with this section will result in an immediate Stop Work order.**

25. STORAGE OF EQUIPMENT

Equipment and materials shall be stored at locations as directed and approved by the Engineer.

26. JOBSITE BULLETIN BOARD

This project requires specific information to be conspicuously displayed on the project where employees regularly congregate in preparation for the day's work. Notices and posters shall be made available on a standard bulletin board. The location of the bulletin board shall be approved by the Engineer and MoDOT. Inspections of the bulletin boards will be conducted when employees begin work on the project and every other month thereafter until the project is complete to ensure the bulletin board is in good condition and still displays the required posters. The list of required information to be posted can be found on the Missouri Department of Transportation website.

A copy of the Erosions Control Plan is also required onsite, available for inspection, at all times. This document shall be stored in a weatherproof enclosure attached to the jobsite bulletin board.

27. COORDINATION WITH PUBLIC SERVICES

The Contractor will be responsible to notify: a) school district, b) ambulance district, c) fire and police, d) the City's Trash Hauler and e) the United States Postal Service of the construction sequence and schedule. The Contractor shall coordinate trash collection for the residents during construction activities.

28. DUST CONTROL

The Contractor shall take all reasonable precautions to avoid the creation of excessive dust as a result of construction operations. Should excessive dust result from the Contractor's operations, or complaints regarding dust be received from private property owners, the Contractor will be required to take immediate corrective action to alleviate and resolve the dust concern. Should any private property be damaged by excessive dust as a result of the Contractor's operations, the damage shall be repaired at the Contractor's expense. No direct payment will be made to the Contractor for any reason of their compliance with this provision.

29. WATER SERVICES (CONTINGENT ITEM)

It is not anticipated that any exposures of water service house leads or relocation of house water service leads will be necessary. If, in the opinion of the Engineer, field conditions require that this work be performed, payment for authorized exposure and relocation will be made as contingent items at unit prices of \$750.00 per exposure, \$1,000 per water service appurtenance installation (corporation valve), and per \$40.00 linear foot of copper piping (less than 2"). These prices include costs for all labor, material, equipment, and incidental items associated with this work.

30. SPRINKLER SYSTEMS (CONTINGENT ITEM)

If sprinkler systems or other like improvements are found that are not noted on the plans or otherwise provided for in the contract, the Engineer will determine whether relocation of the facility is necessary to accommodate construction. If relocation is necessary, the Contractor will proceed to make necessary arrangements with the Owner and the Engineer. Payment for authorized relocation will be made as contingent items at a unit price of \$5.00 per linear foot of piping and \$75.00 per sprinkler head which will include costs for all labor, material, equipment, and incidental items associated with this work.

It will be the Contractor's responsibility to repair or replace sprinkler systems that are damaged due to construction activities to the satisfaction of the Owner. This will include all sprinkler systems on City right-of-way and private property. The contractor will be required to make the necessary repairs within five (5) working days.

If said repairs are not completed as set out above, the Owner will make the necessary repairs, and will deduct the repair cost from the sums due the contractor.

31. FENCE AND HANDRAIL FINISHES

Exposed surfaces for all fencing and handrail materials shall be hot dip galvanized, complying with ASTM 123 and 153 Standards. The parts shall then have a factory applied, thermally cured, polyester powder coat finish meeting manufacture's standards. Color shall be black.

32. ST. LOUIS COUNTY HAND HOLES

St. Louis County hand holes within the project limits will be replaced as part of the project. Line items for this work are: St. Louis County Hand Hole, 17" x 30" (Replace) and St. Louis County Hand Hole, 17" x 30" (Replace and Relocate).

St. Louis County Hand Hole, 17" x 30" (Replace). This work will consist of replacing an existing hand hole labeled on the plans as "to be removed and replaced", in the approximately same location as the existing hand hole. The hand hole shall meet St. Louis County specification and standard detail requirements.

Payment for this work shall be per each hand hole installed and approved and shall include all material (including any rock needed), equipment, labor, tools and appurtenances necessary to complete the installation.

St. Louis County Hand Hole, 17" x 30" (Replace and Relocate). This work will consist of replacing and relocating an existing hand hole labeled on the plans as "to be removed, replaced and relocated". The hand hole shall meet St. Louis County specification and standard detail requirements. The new location of the hand hole shall be outside of the proposed sidewalk ramp to meet ADA code and will consist of moving the hand hole approximately 5-10 feet as necessary. Any additional conduit needed for the relocation shall be included in the cost of the hand hole. Currently the cabling in the existing hand hole has sufficient excess cable coiled inside to be able to handle the relocation without having to install or splice new cable. Contractor shall take extreme care to prevent any damage to the cabling during the installation. The City/County will not be responsible for any repairs necessary to the cable.

Payment for this work shall be per each hand hole installed and approved and shall include all material (including conduit, rock), equipment, labor, tools and appurtenances necessary to complete the installation.

33. GRATED INLETS

All grated inlets used in roadway and shoulder applications shall be of the "bike friendly" curved vane grate type. See Section 3000 – Sewers for additional details.

34. DOWN SPOUTS AND SUMP PUMPS

It will be the Contractor's responsibility to repair or replace pipes that are part of a private down spout or sump pump system that are damaged due to construction activities to the satisfaction of the Owner. This will include all systems on City right-of-way and private property. The contractor will be required to make the necessary repairs within five (5) working days at no additional cost to the City or Property Owner.

If said repairs are not completed as set out above, the Owner will make the necessary repairs, and will deduct the repair cost from the sums due the contractor.

Pipes that are within existing curb or sidewalk that are being replaced shall be placed back in the curb unless otherwise directed by the City Representative. The down spout or sump pump system shall operate as well or better than before it was disturbed. This work is considered incidental to the sidewalk work.

For all existing private pipes that discharge into ditches that are designated to be eliminated due to new sidewalk installations, the Contractor shall extend the pipe as necessary through the new sidewalk and curb. This will involve extending the pipe as far as necessary to allow the pipe to discharge through the curb for adequate drainage and the method for extending the pipe shall be approved by the City representative prior to construction. All work associated with extending the down spouts and sump pump systems shall be considered incidental to the construction.

35. PORTABLE TOILET FACILITIES

The Contractor shall furnish and maintain an adequate number of portable restroom facilities for his employees for the duration of the project.

36. CONSTRUCTION REQUEST FOR INFORMATION

The Contractor shall submit request for information for conditions requiring clarification during construction utilizing the attached Request for Information Form.



Architecture • Civil Engineering • Land Surveying • Site Development • Geotechnical Engineering • Inspection & Materials Testing

CONSTRUCTION REQUEST FOR INFORMATION

RFI #:	
PROJECT:	
SUBMITTED DATE:	
SUBMITTED BY:	
INFORMATION REQUESTED:	
ATTACHMENTS:	

RESPONSE DATE:	
RESPONSE FROM:	
RESPONSE:	
ATTACHMENTS:	

END OF CONSTRUCTION RFI

8 East Main Street
Wentzville, MO 63385
Phone: 636-332-4574
Fax: 636-327-0760

737 Rudder Road
Fenton, MO 63026
Phone: 314-842-4033
Fax: 314-842-5957

530A East Independence Drive
Union, MO 63084
Phone: 636-584-0540
Fax: 636-584-0512

534 Maple Valley Drive
Farmington, MO 63640
Phone: 573-315-4810
Fax: 573-315-4811

2804 N. Biagio Street
Ozark, MO 65721
Phone: 417-595-4108
Fax: 417-595-4109

905 Executive Drive
Osage Beach, MO 65065
Phone: 573-525-0299
Fax: 573-525-0298

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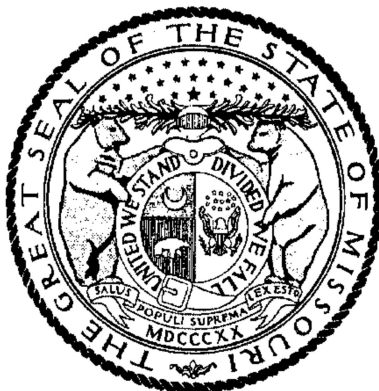
Updated State Prevailing Wage Section

Addendum 1

Missouri

Division of Labor Standards

WAGE AND HOUR SECTION



MICHAEL L. PARSON, Governor

Annual Wage Order No. 27

Section 100
ST. LOUIS COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by

Taylor Burks, Director
Division of Labor Standards

Filed With Secretary of State: March 10, 2020

Last Date Objections May Be Filed: April 9, 2020

Prepared by Missouri Department of Labor and Industrial Relations

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Asbestos Worker	\$63.23
Boilermaker	*\$35.57
Bricklayer	\$56.99
Carpenter	\$54.75
Lather	
Linoleum Layer	
Millwright	
Pile Driver	
Cement Mason	\$52.84
Plasterer	
Communications Technician	\$56.92
Electrician (Inside Wireman)	\$64.79
Electrician Outside Lineman	\$67.10
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Elevator Constructor	*\$35.57
Glazier	\$62.07
Ironworker	\$61.90
Laborer	\$48.12
General Laborer	
First Semi-Skilled	
Second Semi-Skilled	
Mason	\$50.30
Marble Mason	
Marble Finisher	
Terrazzo Worker	
Terrazzo Finisher	
Tile Setter	
Tile Finisher	
Operating Engineer	\$61.75
Group I	
Group II	
Group III	
Group III-A	
Group IV	
Group V	
Painter	\$48.98
Plumber	\$70.02
Pipe Fitter	
Roofer	\$51.85
Sheet Metal Worker	\$67.09
Sprinkler Fitter	\$71.28
Truck Driver	\$48.77
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

*The Division of Labor Standards received less than 1,000 reportable hours for this occupational title.
Public works contracting minimum wage is established for this occupational title using data provided by Missouri
Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title.

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Carpenter	\$56.93
Millwright	
Pile Driver	
Electrician (Outside Lineman)	\$67.10
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Laborer	\$49.33
General Laborer	
Skilled Laborer	
Operating Engineer	\$62.85
Group I	
Group II	
Group III	
Group IV	
Truck Driver	\$42.88
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

*The Division of Labor Standards received less than 1,000 reportable hours for this occupational title. Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title.

OVERTIME and HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, "**overtime work**" shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January First;
The last Monday in May;
July Fourth;
The first Monday in September;
November Eleventh;
The fourth Thursday in November; and
December Twenty-Fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

Updated Federal Prevailing Wage Section

Addendum 1

"General Decision Number: MO20200001 09/11/2020

Superseded General Decision Number: MO20190001

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 \$10.80 for calendar year 2020 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 \$10.80 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 2020. 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	01/03/2020
1	01/24/2020
2	02/07/2020
3	02/14/2020
4	03/13/2020
5	04/03/2020
6	04/24/2020
7	05/08/2020
8	05/15/2020
9	05/29/2020
10	06/05/2020
11	07/03/2020
12	07/24/2020
13	08/07/2020
14	08/14/2020
15	09/11/2020

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 05/31/2020

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.....\$ 40.61 27.06

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 01/01/2020

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.....\$ 32.27 16.09
Groundman.....\$ 30.12 15.38
Lineman Operator.....\$ 43.40 19.30
Lineman.....\$ 47.30 20.45

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

Groundman Powderman.....\$ 32.27 15.52
Groundman.....\$ 30.12 14.88
Lineman Operator.....\$ 43.40 18.80

Lineman.....	\$ 47.30	19.95
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ELEC0095-001 06/01/2019BARRY, BARTON, CEDAR, DADE, JASPER, LAWRENCE, MCDONALD, NEWTON,
ST CLAIR, AND VERNON COUNTIES

Rates	Fringes
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Electricians:

Cable Splicers.....	\$ 25.40	12.19
Electricians.....	\$ 27.43	14.97

ELEC0124-007 08/26/2019BATES, BENTON, CARROLL, CASS, CLAY, COOPER, HENRY, JACKSON,
JOHNSON, LAFAYETTE, MORGAN, PETTIS, PLATTE, RAY AND SALINE
COUNTIES:

Rates	Fringes
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Electricians.....	\$ 40.79	22.92
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ELEC0257-003 03/01/2020AUDRAIN (Except Cuivre Township), BOONE, CALLAWAY, CAMDEN,
CHARITON, COLE, CRAWFORD, DENT, GASCONADE, HOWARD, MARIES,
MILLER, MONITEAU, OSAGE, PHELPS AND RANDOLPH COUNTIES

Rates	Fringes
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Electricians:

Cable Splicers.....	\$ 30.42	16.085
Electricians.....	\$ 34.00	18.68

ELEC0350-002 12/01/2019ADAIR, AUDRAIN (East of Highway 19), CLARK, KNOX, LEWIS, LINN,
MACON, MARION, MONROE, MONTGOMERY, PIKE, PUTNAM, RALLS,
SCHUYLER, SCOTLAND, SHELBY AND SULLIVAN COUNTIES

Rates	Fringes
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Electricians.....	\$ 32.50	17.65
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ELEC0453-001 09/01/2019

Rates	Fringes
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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 06/01/2020

ANDREW, BUCHANAN, CLINTON, DEKALB, ATCHISON, HOLT, MERCER,

GENTRY, HARRISON, DAVIESS, GRUNDY, WORTH, LIVINGSTON, NODAWAY,
AND CALDWELL COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.00	18.10

ELEC0702-004 12/30/2019		

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

	Rates	Fringes
Line Construction:		
Groundman - Class A.....	\$ 30.31	29% + 7.75
Groundman-Equipment Operator Class II (all other equipment).....	\$ 38.46	29% + 7.75
Heavy-Equipment Operator Class I (all crawler type equipment D-4 and larger)...	\$ 43.88	29% + 7.75
Lineman.....	\$ 53.51	29% + 7.75

ENGI0101-001 05/01/2020		

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

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 34.73	18.20
GROUP 2.....	\$ 34.33	18.20
GROUP 3.....	\$ 32.33	18.20

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

rooter (all tiller types); tow boat operator; truck crane; wood and log chippers (all types).

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

GROUP 3: (a) Oiler;

(b) Oiler driver

(c) Mechanic.

HOURLY PREMIUMS:

THE FOLLOWING CLASSIFICATIONS SHALL RECEIVE (\$.25) ABOVE GROUP 1 RATE: Dragline operator - 3 yds. & over; shovel 3 yds. & over; clamshell 3 yds. & over; Crane, rigs or piledrivers, 100' of boom or over (incl. jib.), hoist - each additional active drum over 2 drums

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

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

ENGI0101-005 04/01/2020

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 37.02	19.89
GROUP 2.....	\$ 35.98	19.89
GROUP 3.....	\$ 31.51	19.89
GROUP 4.....	\$ 34.86	19.89

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 05/01/2019

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
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Power equipment operators:

GROUP 1.....	\$ 31.72	14.88
GROUP 2.....	\$ 31.37	14.88
GROUP 3.....	\$ 31.17	14.88
GROUP 4.....	\$ 29.12	14.88

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

GROUP 2: Air Tugger with plant air; Boiler (for power or heating shell of building or temporary enclosures in connection with construction work); Boiler, Temporary; Compressor, One over 125 CFM; Compressor, truck mounted; Conveyor, Large (not self-propelled); Conveyor, Large (not self-propelled) moving brick and concrete (distributing) on floor level; Curb Finishing Machine; Ditch Paving

Machine; Elevator (outside); Endless Chain Hoist; Fireman (as required); Form Grader; Hoist, One Drum regardless of size (except brick or concrete); Lad-A-Vator, other hoisting; Manlift; Mixer, Asphalt, over 8 cu ft capacity; Mixer, one bag capacity or less; Mixer, without side loader, two bag capacity or more; Mixer, with side loader, regardless of size, not Paver; Mud Jack (where mud jack is used in conjunction with an air compressor, operator shall be paid \$.55 per hour in addition to his basic hourly rate for covering both operations); Pug Mill operator; Pump, Sump - self powered, automatic controlled over 2"; Scissor Lift (used for hoisting); Skid Steer Loader; Sweeper, Street; Tractor, small wheel type 50 HP and under with grader blade and similar equipment; Welding Machine, One over 400 amp; Winch, operating from truck

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

GROUP 4: Crane type

HOURLY PREMIUMS:

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

 ENGI0513-006 05/01/2019

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

	Rates	Fringes
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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; atehy 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 04/01/2020

Rates	Fringes
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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,
POLK, PUTNAM, RANDLOPH,
ST. CLAIR, SULLIVAN,

TANEY, VERNON, WEBSTER,
 WRIGHT and WORTH Counties
 and portions of ADAIR,
 BOONE, MACON, MILLER and
 RANDOLPH Counties.....\$ 31.00 31.24

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....\$ 34.00 31.24

 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

LAB00042-003 03/04/2020		

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Plumber Laborer.....	\$ 34.07	16.07

LAB00042-005 03/04/2020		

ST. LOUIS (City and County)

	Rates	Fringes
LABORER		
Dynamiter, Powderman.....	\$ 34.07	16.07
Laborers, Flaggers.....	\$ 34.07	16.07
Wrecking.....	\$ 34.07	16.07

LAB00424-002 05/01/2020		

	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.....	\$ 30.75	14.57
GROUP 2.....	\$ 30.75	14.57

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.....	\$ 30.75	14.57
GROUP 2.....	\$ 30.75	14.57

FRANKLIN COUNTY

GROUP 1.....	\$ 32.86	14.57
GROUP 2.....	\$ 33.46	14.57

JEFFERSON COUNTY

GROUP 1.....	\$ 32.91	14.57
GROUP 2.....	\$ 33.51	14.57

LINCOLN, MONTGOMERY AND
WARREN COUNTIES

GROUP 1.....	\$ 34.33	14.57
GROUP 2.....	\$ 34.33	14.57

ST.CHARLES COUNTY

GROUP 1.....	\$ 34.33	14.57
GROUP 2.....	\$ 34.33	14.57

LABORERS CLASSIFICATIONS

GROUP 1 - General laborer-flagman, carpenter tenders; salamander Tenders; Dump Man; Ticket Takers; loading trucks under bins, hoppers, and conveyors; track man; cement handler; dump man on earth fill; georgie buggy man; material batch hopper man; spreader on asphalt machine; material mixer man (except on manholes); coffer dams; riprap pavers rock, block or brick; scaffolds over ten feet not self-supported from ground up; skip man on concrete paving; wire mesh setters on concrete paving; all work in connection with sewer, water, gas, gasoling, oil, drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator; all work in connection with hydraulic or general dredging operations; form setters, puddlers (paving only); straw blower nozzle man; asphalt plant platform man; chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material; topser of standing trees; 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 ft. where compressed air is not used; abutment and pier hole men working six (6) ft. or more below ground; men working in coffer dams for bridge piers and footing in the river; barco tamper; jackson or any other similar tamp; cutting torch man; liners, curb, gutters, ditch lines; hot mastic kettlemen; hot tar applicator; hand blade operator; mortar men or brick or block manholes; rubbing concrete, air tool operator under 65 lbs.; caulker and lead man; chain or concrete saw under 15 h.p.; signal Gan; Guard rail and sign erectors.

GROUP 2 - Skilled laborers - Vibrator man; asphalt raker;

head pipe layer on sewer work; batterboard man on pipe and ditch work; cliff scalers working from bosun's chairs; scaffolds or platforms on dams or power plants over 10 ft. high; air tool operator over 65 lbs.; stringline man on concrete paving; sandblast man; laser beam man; wagon drill; churn drill; air track drill and all other similar type drills, gunite nozzle man; pressure grout man; screed man on asphalt; concrete saw 15 h.p. and over; grade checker; stringline 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

LAB00579-005 05/01/2020

	Rates	Fringes
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LABORER (ANDREW, ATCHISON,
BUCHANAN, CALDWELL, CLINTON,
DAVIESS, DEKALB, GENTRY,
GRUNDY, HARRISON, HOLT,
LIVINGSTON, MERCER, NODAWAY
and WORTH COUNTIES.)

GROUP 1.....	\$ 27.21	15.42
GROUP 2.....	\$ 27.56	15.42

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.....	\$ 26.21	14.62
GROUP 2.....	\$ 26.76	14.62

LABORER (LAFAYETTE COUNTY)

GROUP 1.....	\$ 27.76	14.87
GROUP 2.....	\$ 28.11	14.87

LABORERS CLASSIFICATIONS

GROUP 1: General Laborers - Carpenter tenders; salamander tenders; loading trucks under bins; hoppers & conveyors; track men & all other general laborers; air tool operator; cement handler-bulk or sack; dump man on earth fill; georgie buggy man; material batch hopper man; material mixer man (except on manholes); coffer dams; riprap pavers - rock, block or brick; signal man; scaffolds over ten feet not self-supported from ground up; skipman on concrete paving; wire mesh setters on concrete paving; all work in connection with sewer, water, gas, gasoline, oil drainage pipe, conduit pipe, tile and duct lines and all other pipe lines; power tool operator, all work in connection with hydraulic or general dredging operations; puddlers (paving only); straw blower nozzle man; asphalt plant platform man; chuck tender; crusher feeder; men handling creosote ties or creosote materials; men working with and handling epoxy material or materials (where special protection is required); rubbing concrete; topper of standing trees; batter board man on pipe and ditch work; feeder man on wood pulverizers; board and willow mat weavers and cable tiers

on river work; deck hands; pile dike and revetment work; all laborers working on underground tunnels less than 25 feet where compressed air is not used; abutment and pier hole men working six (6) feet or more below ground; men working in coffer dams for bridge piers and footings in the river; ditchliners; pressure groutmen; caulker; chain or concrete saw; cliffscalers working from scaffolds, bosuns' chairs or platforms on dams or power plants over (10) feet above ground; mortarmen on brick or block manholes; toxic and hazardous waste work.

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

LAB00663-002 04/01/2020

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 31.28	16.33
GROUP 2.....	\$ 32.49	16.33

LABORERS CLASSIFICATIONS

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

man.

GROUP 2: Skilled Laborer - spreader or screed man on asphalt machine, asphalt raker, grade checker, vibrator man, concrete saw over 5 hp., laser beam man, barco tamper, jackson or any other similar tamp, wagon driller, churn drills, air track drills and other similar drills, cutting torch man, form setters, liners and stringline men on concrete paving, curb, gutters and etc., hot mastic kettelman, 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.

PAIN002-002 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

PAIN002-006 04/01/2020

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.....	\$ 26.64	13.98
Brush and Roll; Taping, Paperhanging.....	\$ 24.64	13.98
Epoxy or Any Two Part Coating; Sandblasting; Stage or other Aerial Work - Platforms over 50 feet high; Lead Abatement.....	\$ 25.64	13.98
Spray; Structural Steel (over 50 feet).....	\$ 24.64	13.98
Tapers using Ames or Comparable Tools.....	\$ 25.39	13.98

PAIN003-004 04/01/2017

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

COUNTIES

	Rates	Fringes
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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 04/01/2011BATES, BENTON, CALDWELL, CARROLL, COOPER, DAVIESS, GRUNDY,
HARRISON, HENRY, LIVINGSTON, MERCER, MONITEAU, MORGAN, PETTIS &
SALINE COUNTIES

	Rates	Fringes
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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 04/01/2012BARRY, 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
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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 07/01/2013CAMDEN, CRAWFORD, DENT, LACLEDE, MARIES, MILLER, PHELPS,
PULASKI AND TEXAS COUNTIES

	Rates	Fringes
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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
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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):

Over 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
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Painters:

Brush & Roller.....	\$ 31.26	17.26
Sandblaster.....	\$ 32.76	17.26
Steeplejack.....	\$ 36.33	17.26

PLAS0518-006 03/01/2020

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...	\$ 24.44	12.11

PLAS0518-007 04/01/2020

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

	Rates	Fringes
Cement Masons:.....	\$ 32.72	18.30

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 06/01/2020

CASS, CLAY, JACKSON, JOHNSON, AND PLATTE COUNTIES

	Rates	Fringes
Plumbers.....	\$ 48.03	22.84

PLUM0008-017 06/01/2020

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

	Rates	Fringes
Plumbers.....	\$ 48.03	22.84

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 11/01/2019

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

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 31.75	15.12

PLUM0178-006 11/01/2019

BARTON, JASPER, MCDONALD AND NEWTON COUNTIES

	Rates	Fringes
Plumbers and Pipefitters		
Projects \$750,000 & under...	\$ 27.93	15.35
Projects over \$750,000.....	\$ 31.75	15.12

PLUM0533-004 06/01/2020

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

	Rates	Fringes
Pipefitters.....	\$ 48.53	22.55

* PLUM0562-004 07/01/2020		

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.....	\$ 41.66	21.49
Mechanical Contracts including all piping and temperature control work over \$7.0 million.....	\$ 43.60	27.85

* PLUM0562-016 07/01/2020		

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.....	\$ 43.60	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

TEAM0056-001 05/01/2020

Rates	Fringes
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Truck drivers (ANDREW,
BARTON, BATES, BENTON,
CALDWELL, CAMDEN, CARROLL,
CEDAR, CHARITON, CHRISTIAN,
CLINTON, COOPER, DADE,
DALLAS, DAVIESS, DEKALB,
DOUGLAS, GREENE, HENRY,
HICKORY, HOWARD, JASPER,
LACLEDE, LAWRENCE, LINN,
LIVINGSTON, MONITEAU, MORGAN,
NEWTON, PETTIS, POLK,
RANDOLPH, ST. CLAIR, SALINE,

VERNON, WEBSTER AND WRIGHT
COUNTIES)

GROUP 1.....	\$ 31.37	14.25
GROUP 2.....	\$ 31.53	14.25
GROUP 3.....	\$ 31.52	14.25
GROUP 4.....	\$ 31.64	14.25

Truck drivers: (ATCHISON,
BARRY, GENTRY, GRUNDY,
HARRISON, HOLT, MCDONALD,
MERCER, NODAWAY, OZARK,
STONE, SULLIVAN, TANEY AND
WORTH COUNTIES)

GROUP 1.....	\$ 30.64	14.25
GROUP 2.....	\$ 30.80	14.25
GROUP 3.....	\$ 30.79	14.25
GROUP 4.....	\$ 30.91	14.25

Truck drivers; (BUCHANAN,
JOHNSON AND LAFAYETTE
COUNTIES)

GROUP 1.....	\$ 32.58	14.25
GROUP 2.....	\$ 32.69	14.25
GROUP 3.....	\$ 32.73	14.25
GROUP 4.....	\$ 32.80	14.25

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
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Truck drivers:

Traffic Control Service Driver.....	\$ 20.45	0.00
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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 04/01/2020

CASS, CLAY, JACKSON, PLATTE AND RAY COUNTIES

	Rates	Fringes
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Truck drivers:

GROUP 1.....	\$ 33.36	16.25
GROUP 2.....	\$ 32.79	16.25
GROUP 3.....	\$ 32.27	16.25

TRUCK DRIVERS CLASSIFICATIONS

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

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

GROUP 3: Oilers and Greasers - Field

TEAM0682-002 05/01/2017

ST LOUIS CITY AND COUNTY

	Rates	Fringes
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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:

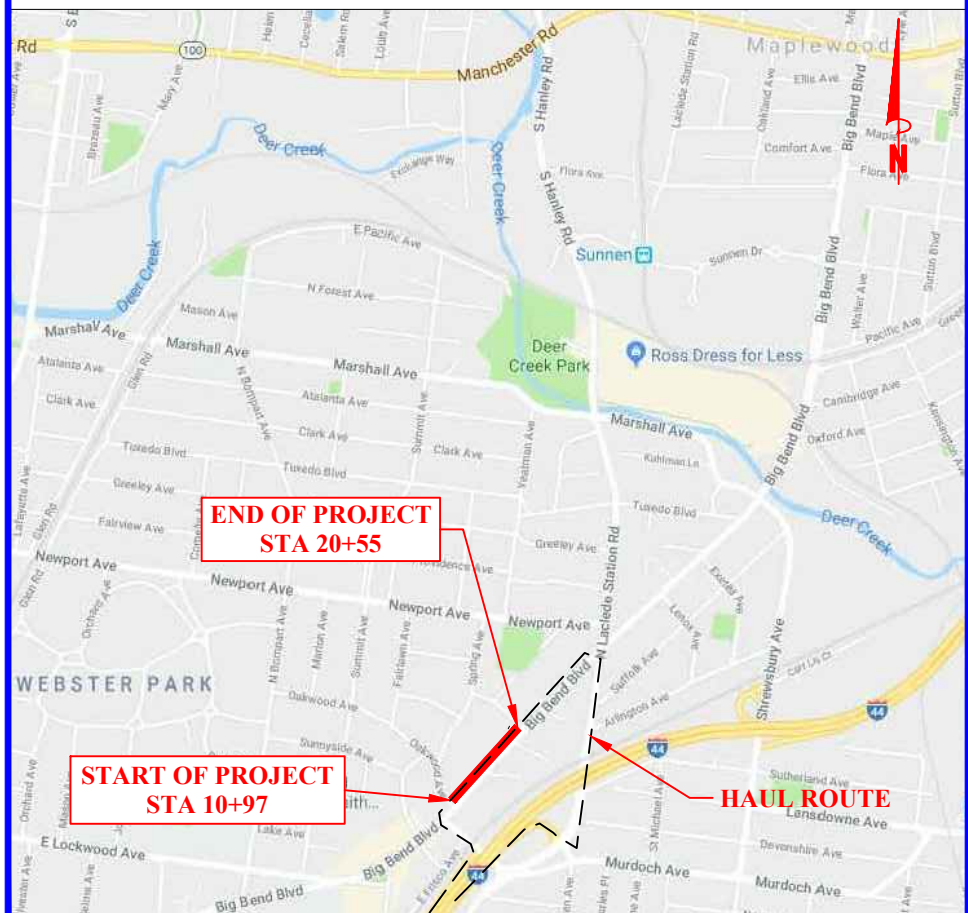
Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

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

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END OF GENERAL DECISION"

CONTACT INFORMATION	
OWNER	CONSULTANT
CITY OF WEBSTER GROVES	COCHRAN
REPRESENTATIVE: TODD REHG, P.E.	REPRESENTATIVE: KEVIN WOLFF, P.E.
ADDRESS: 4 EAST LOCKWOOD WEBSTER GROVES, MISSOURI 63119	ADDRESS: 737 RUDDER ROAD FENTON, MISSOURI 63026
PHONE: (314) 963-5300	PHONE: (314) 842-4033
SEWER	WATER
METROPOLITAN SEWER DISTRICT	AMERICAN WATER
REPRESENTATIVE: NICK SAFDARI, P.E.	REPRESENTATIVE: DANIEL WOODCOCK
ADDRESS: 2350 MARKET STREET ST. LOUIS, MISSOURI 63103	ADDRESS: 727 CRAIG ROAD ST. LOUIS, MISSOURI 63141
PHONE: (314) 768-2714	PHONE: (314) 713-4095
ELECTRIC	GAS
AMEREN MISSOURI	SPIRE
REPRESENTATIVE: TIMOTHY MUETH	REPRESENTATIVE: BRIAN LANGENBACHER
ADDRESS: 9823 MACKENZIE ROAD ST. LOUIS, MISSOURI 63123	ADDRESS: 720 OLIVE STREET ST. LOUIS, MISSOURI 63101
PHONE: (314) 992-9713	PHONE: (314) 768-7767
CABLE	TELEPHONE
CHARTER	AT&T
REPRESENTATIVE: DARYL STEFFEN	REPRESENTATIVE: CHERYL GISSLER
ADDRESS: 815 CHARTER COMMONS TOWN AND COUNTRY, MISSOURI 63017	ADDRESS: 13075 MANCHESTER ROAD DES PERES, MISSOURI 63131
PHONE: (636) 387-6663	PHONE: (314) 957-6049
PROJECT INFORMATION	TRAFFIC
ST. LOUIS COUNTY TRAFFIC	
REPRESENTATIVE: JAMES KNOLL, PE, CFM	
ADDRESS: 1050 NORTH LINDBERGH BOULEVARD SAINT LOUIS, MISSOURI 63132	
PHONE: (314) 615-8504	



BIG BEND BOULEVARD SIDEWALKS PHASE 1

IN THE
CITY OF WEBSTER GROVES, MISSOURI
ST. LOUIS COUNTY
FEDERAL PROJECT NO. STP-5537(623)

The logo for Webster Groves, featuring the words "WEBSTER GROVES" in a stylized, green, serif font. Below the text is a decorative, swirling, golden-brown graphic element.

4 EAST LOCKWOOD
WEBSTER GROVES, MISSOURI 63119
TELEPHONE (314) 963-5300
FAX (314) 963-7561
www.webstergroves.org

The logo for Cochran, featuring a large, stylized blue "C" with a white outline. To the right of the "C" is the word "COCHRAN" in a bold, blue, sans-serif font.

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

737 RUDDER ROAD
FENTON, MISSOURI 63026
TELEPHONE (314) 842-4033
FAX (314) 842-5957
www.cochraneng.com

COCHRAN PROJECT NO. SC17-674
SEPTEMBER 2020

HT # 5549
20MSD-00309
BASE MAP 22K2 & 22K3

Haul Route Information (Contractor to Fill In for St. Louis County)

Total cubic yards to be hauled 250 C.Y.
(_____) of trucks/day
Cubic yards/truck (_____)
Roads traveled: I-44N to N. Laclede Station Rd., to Big Bend Blvd., to Murdoch Ave., to I-44S. Additional County Roads(_____)
(_____)
Site haul to/from: (Project Location to/from _____)
(_____)
Duration of haul operation (2 months)
Confirm to/from sites are permitted sites: (_____)
(_____)
Trucks shall not exceed posted weight limits for St. Louis County bridges during haul operations.

St. Louis County Notes:

The City of Webster Groves shall be responsible for all maintenance, power, and all other costs associated with the installation and use of the proposed street lighting within St. Louis County Right-of-Way. St. Louis County shall bear no costs associated with the proposed street lighting.

Proposed street lighting shall meet the requirements, specifications and illumination standards addressed in Section 1005.320.1 of the St. Louis County Subdivision Ordinance. St. Louis County shall not be responsible for any of installation cost, power charges, maintenance, or other costs associated with street lighting.

The City of Webster Groves shall be responsible for all installation, maintenance, and repair costs associated with the exposed aggregate strip and the railing within St. Louis County Right-of-Way.

Contractor to submit a St. Louis County Special Use Permit Application.

Contractor's Certificate of Insurance (COI) needs to include the following:

St. Louis County listed as additional insured. St. Louis County, 41 S. Central Ave. Clayton, MO 63105 (listed as a certificate holder).

Provide a 30 day notice of cancellation.

Provide a copy of the endorsement sheet(s) for additional insured.

Stormwater Management Future Disturbance Note:

Project Disturbance = 0.29 ACRES
Disturbed Area Considered Maintenance Area = 0.27 ACRES
Project Runoff Differential = 0.00 CFS

Any future land disturbance and/or increase in impervious area on this site may require additional stormwater management per MSD regulations in place at the time (including total land disturbance and/or imperviousness added on this plan.)

[illegible]

STATE OF MISSOURI

KEVIN J. WOLF, P.E.


PE-200400389

PROFESSIONAL ENGINEER

9/21/20

KEVIN J. WOLF
NO. PE-200400389
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SO ENGINEERING LLC,
DBA COCHRAN

THIS SHEET HAS BEEN SIGNED,
SEALED AND DATED ELECTRONICALLY


TODD REHG, P.E.
DIRECTOR OF PUBLIC
WORKS CITY ENGINEER

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\QUANTITY.dwg Tab: Q-1 Plotted on: Sep 24, 2020 - 8:32am Plotted by: MSpolding

QUANTITY SHEET

Bid No.	Spec, No.	Description	From STA	To STA	Unit	Quantity
		ROADWAY ITEMS				
1	1500	Mobilization	10+97	20+55	LS	1
2	1500	Channelizers (Trimline)	10+97	20+55	EA	100
3	2200	Removal of Improvements	10+97	20+55	LS	1
4	2350	Silt Fence	12+54	16+23	LF	200
5	2350	Inlet Check	20+33	20+33	EA	1
6	5000	Concrete Curb and Gutter, 18"	10+97	20+55	LF	680
7	5000	Concrete Vertical Curb	11+01	20+51	LF	54
8	Plans	Segmental Transition	10+97	20+55	SF	208
9	5000	Modified Commercial Entrance with Vertical Curb (Remove and Replace)	12+20	18+61	SF	2,720
		SIGNING/STRIPING/SIGNALS ITEMS				
10	1500	"Road Work Ahead" Sign (W20-1)	10+97	20+55	EA	4
11	1500	"Shoulder Work Ahead" Sign (W21-5)	10+97	20+55	EA	2
12	1500	"Flagger Symbol" Sign (W20-7a)	10+97	20+55	EA	2
13	1500	"One Lane Road Ahead" Sign (W20-4)	10+97	20+55	EA	2
14	1500	"End Road Work" Sign (G20-2)	10+97	20+55	EA	2
15	1500	"Narrow Lanes" Sign (W5-5)	10+97	20+55	EA	2
16	1500	"Sidewalk Closed" Sign (R9-9)	10+97	20+55	EA	6
17	1500	"Sidewalk Closed Use Other Side" Sign (R9-10)	10+97	20+55	EA	4
18	1500	Type 1 Barricade with Lights	10+97	20+55	EA	20
19	1600	Changeable Message Sign	10+97	20+55	EA	2
20	3200	Relocate Sign on New Post (or to Street Light)	11+95	20+50	EA	9
		BICYCLE/PEDESTRIAN FACILITY ITEMS				
21	3200	Pedestrian Railing	20+35	20+45	LF	17
22	5000	Concrete Sidewalk, 4"	11+00	20+52	SF	5,935
23	5000	Exposed Aggregate Sidewalk, 4"	11+13	20+31	SF	1,745
24	5000	Detectable Warning Devices	11+00	20+52	SF	40
		LANDSCAPING/STREETSCAPING ITEMS				
25	5900	Street Light Assembly	11+01	20+20	EA	10
26	5900	Concrete Base for Street Lights Assembly	11+01	20+20	EA	10
27	5900	Underground Cable in Conduit, (2"or 2-1/2")	11+01	20+51	LF	1,080
28	5900	Hand Hole, 13" x 24"	20+28	20+28	EA	2
29	5900	Load Center	20+23	20+23	EA	1
30	JSP	St. Louis County Hand Hole, 17" x 30" (Replace)	13+30	16+75	EA	2
31	JSP	St. Louis County Hand Hole, 17" x 30" (Replace and Relocate)	20+35	20+45	EA	1
32	9000	Sodding	10+97	20+55	SY	100

THIS SHEET IS NOT PART
OF ST. LOUIS COUNTY
REVIEW OR APPROVAL

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

314-842-4033 (tel.)
314-842-5957 (fax)
www.cochraneng.com

COCHRAN
737 RUDDER ROAD
FENTON, MISSOURI 65026

Civil Engineering
Land Surveying
Architecture
Site Development
Master Planning
General Consulting
ENGINEERING CERTIFICATE OF AUTHORITY NUMBER - 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI
KEVIN J. WOLFF, P.E.
NUMBER
PE-200400859
PROFESSIONAL ENGINEER

9/21/20
KEVIN J. WOLFF
NO. PE-200400859
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC,
DBA COCHRAN

THIS SHEET HAS BEEN SIGNED,
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

QUANTITY SHEET

DATE:	REVISION:	DWN. BY:	APPD. BY:
		K.J.W.	M.D.S.
DATE:			
SCALE:			
PROJ. NO:			
DWG. NO:			

SEPT. 2020
NO SCALE
SC17-674
Q-1

THIS PROJECT IS ORIENTED TO GRID NORTH DERIVED FROM GPS OBSERVATIONS OF MISSOURI GRS MONUMENT SL-192 USING MODOT'S RTK GPS NETWORK.



LEGEND					
PROPERTY LINE		EXISTING UTILITY POLE		EXISTING GAS VALVE	
RIGHT-OF-WAY		EXISTING SANITARY SEWER		EXISTING FIRE HYDRANT	
CENTERLINE OF ROAD		EXISTING WATER MAIN		EXISTING MAILBOX	
EXISTING STRIPING		EXISTING GAS MAIN		EXISTING SIGN	
EXISTING MAJOR CONTOUR		EXISTING STORM SEWER		EXISTING FENCE	
EXISTING MINOR CONTOUR		EXISTING UNDERGROUND TELEPHONE		EXISTING LIGHT	
EXISTING BUILDING		EXISTING UNDERGROUND ELECTRIC		EXISTING BUSH	
EXISTING CONCRETE PAVEMENT		EXISTING TELEPHONE PEDESTAL		EXISTING TREE	
EXISTING GRAVEL		EXISTING WATER VALVE		EXISTING UTILITY (TERMINUS UNKNOWN)	
EXISTING ASPHALT PAVEMENT		EXISTING WATER METER		EXISTING GUY WIRE	
EXISTING AERIAL ELECTRIC		EXISTING FIBER OPTIC			

STL COUNTY HT #5549
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BIG BEND BLVD. SIDEWALK PHASE 1

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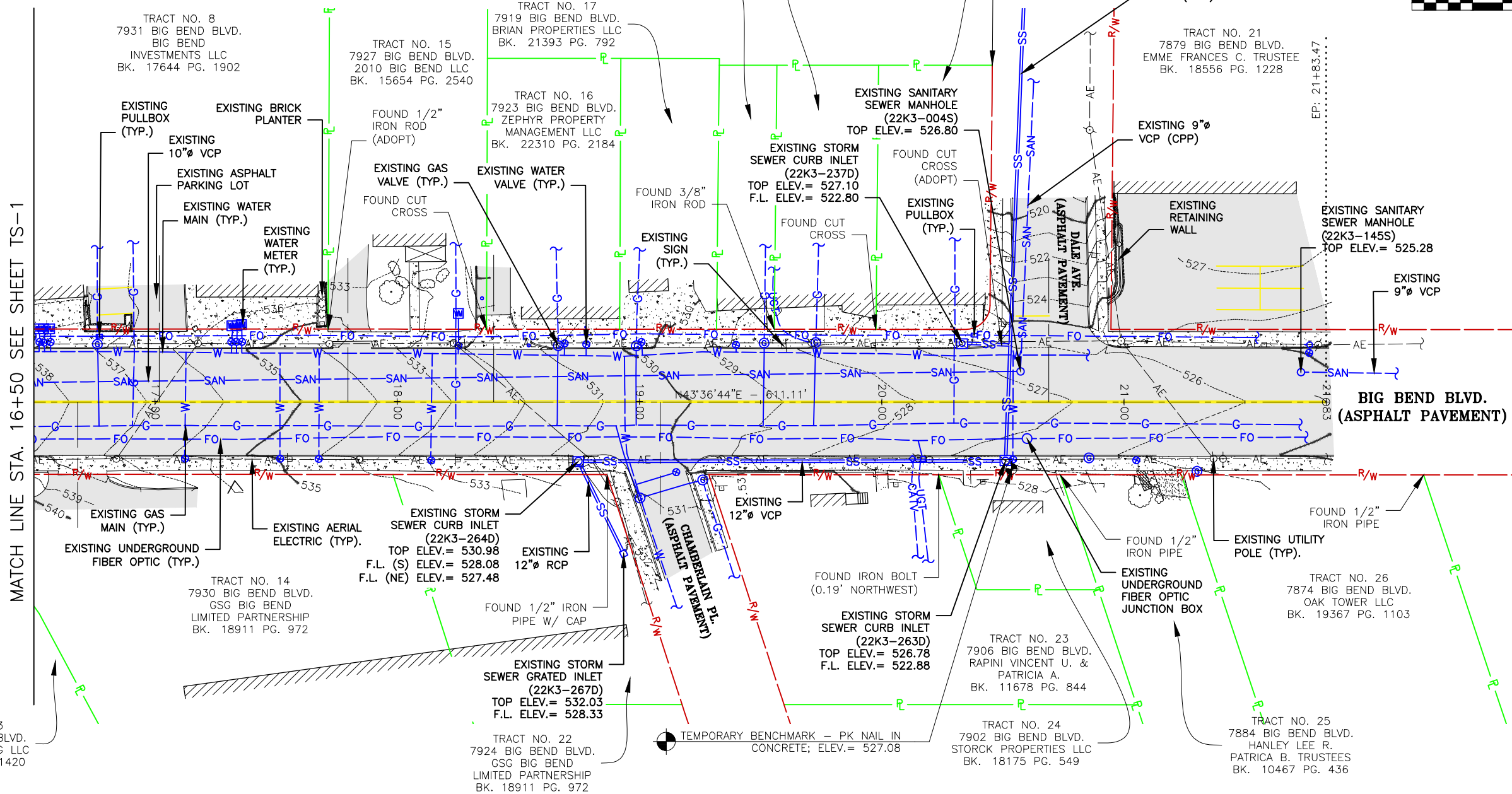
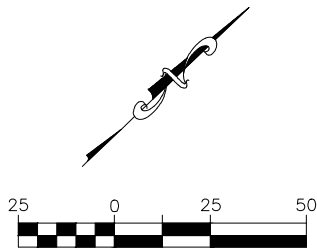
THIS SITE LIES ENTIRELY WITHIN
U.S. SURVEY 1953, T45N, R6E

LAND TIE: FOUND 1/2" IRON PIPE AT THE
SOUTHERNMOST CORNER OF LOT "B" OF JOHNSTON
MORRISON SUBDIVISION, D.B. 31, PG. 316.
(N50°40'26"W 30.00' OF CL OF ROAD AT STA. 14+11.26)

THIS PROJECT IS ORIENTED TO GRID NORTH DERIVED
FROM GPS OBSERVATIONS OF MISSOURI GRS MONUMENT
SL-192 USING MODOT'S RTK GPS NETWORK.

TOPOGRAPHIC SURVEY

(THIS DOES NOT CONSTITUTE A PROPERTY BOUNDARY SURVEY)



NOTES:

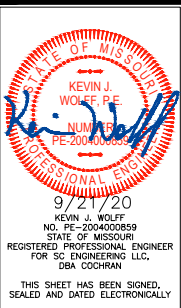
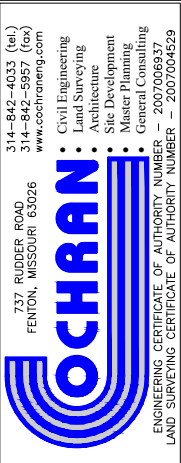
- UNDERGROUND STRUCTURES, FACILITIES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
- TEMPORARY BENCHMARK IS A PK NAIL IN A CONCRETE SIDEWALK ON THE SOUTHEAST SIDE OF BIG BEND BLVD. AT APPROXIMATELY STA. 20+55 AS SHOWN ABOVE, ELEV.= 527.08. SITE BENCHMARK IS ST LOUIS COUNTY BENCHMARK 14501 (SL-192), ELEV.= 508.68 (NAVD 88).
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF ALL POTENTIAL UTILITY CONFLICTS PRIOR TO ORDERING MATERIALS FOR CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. LOCATION, RELOCATION AND CONNECTION OF THE UTILITIES SHALL BE COORDINATED WITH THE UTILITY COMPANIES.
- TOPOGRAPHIC INFORMATION AS SHOWN HEREON PER FIELD WORK PERFORMED BY L.H.M. AND Z.B.H. OF COCHRAN, DATED JANUARY 2018.
- THIS PROJECT IS ORIENTED TO GRID NORTH DERIVED FROM GPS OBSERVATIONS OF MISSOURI GRS MONUMENT SL-192 USING MODOT'S RTK GPS NETWORK.
- THIS SITE LIES WITHIN "ZONE X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 29189C0329K AND 29189C0327K, EFFECTIVE DATE FEBRUARY 4, 2015.
- THIS TOPOGRAPHIC SURVEY DOES NOT CONSTITUTE A PROPERTY BOUNDARY SURVEY.

LEGEND

PROPERTY LINE		EXISTING UTILITY POLE		EXISTING CABLE TV	
RIGHT-OF-WAY		EXISTING SANITARY SEWER		EXISTING GAS VALVE	
CENTERLINE OF ROAD		EXISTING WATER MAIN		EXISTING FIRE HYDRANT	
EXISTING STRIPING		EXISTING GAS MAIN		EXISTING MAILBOX	
EXISTING MAJOR CONTOUR		EXISTING STORM SEWER		EXISTING SIGN	
EXISTING MINOR CONTOUR		EXISTING UNDERGROUND TELEPHONE		EXISTING FENCE	
EXISTING BUILDING		EXISTING UNDERGROUND ELECTRIC		EXISTING LIGHT	
EXISTING CONCRETE PAVEMENT		EXISTING TELEPHONE PEDESTAL		EXISTING BUSH	
EXISTING GRAVEL		EXISTING WATER VALVE		EXISTING TREE	
EXISTING ASPHALT PAVEMENT		EXISTING WATER METER		EXISTING UTILITY (TERMINUS UNKNOWN)	
EXISTING AERIAL ELECTRIC		EXISTING FIBER OPTIC		EXISTING GUY WIRE	

ST. LOUIS COUNTY BENCHMARK NOTE:
1. SITE BENCHMARK IS ST LOUIS
COUNTY BENCHMARK 14501
(SL-192), ELEV.= 508.68 (NAVD 88).

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3



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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

TOPOGRAPHIC SURVEY	DATE:	REVISION:	DWN. BY:	APPD. BY:
			L.H.M.	T.J.V.
	DATE:			
	SEPT. 2020			
	SCALE:			
	1" = 50'			
	PROJ. NO.:			
	SC17-674			
	DWG. NO.:			
	TS-2			

LEGEND AND GENERAL NOTES

LEGEND, GENERAL NOTES AND ABBREVIATIONS SHALL APPLY TO ALL SHEETS UNLESS OTHERWISE NOTED ON INDIVIDUAL SHEET

LEGEND

GENERAL NOTES

TOPOGRAPHIC SURVEY NOTES:

- 1. UNDERGROUND STRUCTURES, FACILITIES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
- 2. TEMPORARY BENCHMARK IS A PK NAIL IN A CONCRETE SIDEWALK ON THE SOUTHEAST SIDE OF BIG BEND BLVD. AT APPROXIMATELY STA. 13+20 AS SHOWN ABOVE, ELEV.= 539.58. SITE BENCHMARK IS ST LOUIS COUNTY BENCHMARK 14501 (SL-192), ELEV.= 508.68 (NAVD 88).
- 3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. LOCATION, RELOCATION AND CONNECTION OF THE UTILITIES SHALL BE COORDINATED WITH THE UTILITY COMPANIES.
- 4. TOPOGRAPHIC INFORMATION AS SHOWN HEREON PER FIELD WORK PERFORMED BY L.H.M. AND Z.B.H. OF COCHRAN, DATED JANUARY 2018.
- 5. THIS PROJECT IS ORIENTED TO GRID NORTH DERIVED FROM GPS OBSERVATIONS OF MISSOURI GRS MONUMENT SL-192 USING MODOT'S RTK GPS NETWORK.
- 6. THIS SITE LIES WITHIN "ZONE X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 29189C0329K AND 29189C0327K, EFFECTIVE DATE FEBRUARY 4, 2015.
- 7. THIS TOPOGRAPHIC SURVEY DOES NOT CONSTITUTE A PROPERTY BOUNDARY SURVEY.

DESIGN NOTES:

- 1. CONTRACTOR SHALL RELOCATE ALL EXISTING SIGNS, PLANTERS, MAILBOXES, AND PRIVATE LIGHTS AS NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS. NEW LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. SEE THE REMOVAL OF IMPROVEMENTS SECTION IN THE SPECIFICATIONS.
- 2. CONTRACTOR SHALL ADJUST TO GRADE ALL UTILITIES NECESSARY TO BRING THE UTILITY TO THE GRADE OF THE NEW CONSTRUCTION. SEE THE UTILITY ADJUSTMENT SECTION OF THE SPECIFICATIONS.
- 3. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF ALL POTENTIAL UTILITY CONFLICTS PRIOR TO ORDERING STORM SEWER PIPE AND STRUCTURES.
- 4. CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING PRIVATE SIDEWALKS AS NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS. PRIVATE SIDEWALKS SHALL BE SAW CUT AT THE RIGHT-OF-WAY OR NEAREST JOINT AS DIRECTED BY THE ENGINEER. SEE THE REMOVAL OF IMPROVEMENTS SECTION IN THE SPECIFICATIONS.
- 5. EXISTING CULVERT PIPES, WHICH ARE UNDER DRIVEWAYS BEING REPLACED BY THE CONSTRUCTION OF IMPROVEMENTS, SHALL BE REMOVED. SEE THE REMOVAL OF IMPROVEMENTS SECTION IN THE SPECIFICATIONS.
- 6. OBLITERATE ANY EXISTING STRIPING THAT CONFLICTS WITH THE PROPOSED PAVEMENT MARKING PLAN. THE PROCESS FOR REMOVAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEGINNING (INCIDENTAL TO CONSTRUCTION). THE CONTRACTOR SHALL NOTIFY THE ST. LOUIS COUNTY DIVISION OF OPERATIONS STRIPING PERSONNEL AT (314) 615-0233, 24 HOURS IN ADVANCE OF ANY STRIPING RELATED WORK. ALL GRINDING OF EXISTING STRIPING AND INSTALLATION OF TEMPORARY STRIPING AS REQUIRED BY ST. LOUIS COUNTY SHALL BE PERFORMED BY THE CONTRACTOR. ALL PERMANENT STRIPING WILL BE INSTALLED BY ST. LOUIS COUNTY DEPARTMENT OF TRANSPORTATION.
- 7. THE LOCATION OF THE NEW UNDERGROUND ELECTRIC FOR STREET LIGHTING AS SHOWN IS APPROXIMATE AND SHALL NOT INTERFERE WITH ANY NEW OR EXISTING UTILITIES, SIGNS, TREES, OR IMPROVEMENTS OF ANY KIND. THEREFORE, THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF UNDERGROUND ELECTRIC WITH EXISTING UTILITIES AND ANY OTHER IMPROVEMENTS ASSOCIATED WITH THIS PROJECT.
- 8. ALL AREAS OF CLEARING, GRUBBING AND STRIPPING NOT SHOWN IN PLANS, CONTRACTOR SHALL CONDUCT CLEARING, GRUBBING AND STRIPPING AS NECESSARY UNLESS OTHERWISE NOTED IN PLANS.

ST. LOUIS COUNTY NOTES:

- 1. ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
- 2. NO SLOPES WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
- 3. STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- 4. ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
- 5. ALL SIDEWALKS AND ASSOCIATED ACCESSIBILITY IMPROVEMENTS WITHIN RIGHT-OF-WAY SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY ADA STANDARDS.
- 6. A SIGNED/SEALED NOTE SHALL BE ADDED TO THE CONSTRUCTION PLANS INDICATING THAT THE UNIMPROVED EXISTING SIDEWALK/PEDESTRIAN PATH ALONG THE PROJECT FRONTAGE MEETS CURRENT ST. LOUIS COUNTY ADA STANDARDS.
- 7. ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS.
- 8. ALL HYDRANTS, POWER POLES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY SHALL HAVE A MINIMUM TWO (2) FOOT SETBACK FROM FACE OF CURB OR EDGE OF PAVEMENT, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC.
- 9. ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE EVIDENCING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE "ST. LOUIS COUNTY" AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.
- 10. PRIOR TO "SPECIAL USE PERMIT" ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.
- 11. CONTINUOUS PEDESTRIAN ACCESS SHALL BE PROVIDED DURING THE CONSTRUCTION PROCESS. PRIOR TO THE START OF CONSTRUCTION, ADEQUATE PEDESTRIAN ACCESS AROUND THE SITE SHALL BE PROVIDED AND VERIFIED. NO EXISTING SIDEWALK SHALL BE REMOVED WITHOUT PROVIDING ADEQUATE PEDESTRIAN FACILITIES AND ROUTES DURING CONSTRUCTION ACTIVITIES.

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

ABBREVIATIONS

AI – AREA INLET	MIN – MINIMUM	Ø – DIAMETER
ARC – ARC LENGTH	NO – NUMBER	CL – CENTERLINE
ATG – ADJUST TO GRADE	O/S – OFFSET	
BF – BOTTOM OF FOOTING	OC – ON CENTER	
BOP – BEGINNING OF PAVEMENT	PC – POINT OF CURVATURE	
BW – BOTTOM OF WALL	PCC – POINT OF COMPOUND CURVATURE	
CB – CHORD BEARING	PE – PERMANENT EASEMENT	
CHD – CHORD LENGTH	PI – POINT OF INTERSECTION	
CI – CURB INLET	PRC – POINT OF REVERSE CURVATURE	
CMP – CORRUGATED METAL PIPE	PT – POINT OF TANGENCY	
DCI – DOUBLE CURB INLET	R/W – RIGHT-OF-WAY	
DGI – DOUBLE GRATED INLET	RAD – RADIUS	
ELEV – ELEVATION	RCP – REINFORCED CONCRETE PIPE	
EOP – END OF PAVEMENT	RT – RIGHT	
FES – FLARED END SECTION	SSD – STOPPING SIGHT DISTANCE	
FL – FLOW LINE	STA – STATION	
GI – GRATED INLET	TBR – TO BE REMOVED	
GIS – GRATED INLET WITH SIDE INTAKE	TBR&R – TO BE REMOVED AND REPLACED	
HDPE – HIGH-DENSITY POLYETHYLENE	TCE – TEMPORARY CONSTRUCTION EASEMENT	
JB – JUNCTION BOX	TW – TOP OF WALL	
LF – LINEAR FEET	TYP – TYPICAL	
LT – LEFT	VPC – VERTICAL POINT OF CURVATURE	
MAX – MAXIMUM	VPI – VERTICAL POINT OF INTERSECTION	
MH – MANHOLE	VPT – VERTICAL POINT OF TANGENCY	

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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

LEGEND AND GENERAL NOTES

DATE: REVISION:

DWN. BY: K.J.W. APPD. BY: M.D.S.
DATE: SEPT. 2020
SCALE: NO SCALE
PROJ. NO: SC17-674
DWG. NO: LG-1

LEGEND, GENERAL NOTES AND ABBREVIATIONS SHALL APPLY TO ALL SHEETS UNLESS OTHERWISE NOTED ON INDIVIDUAL SHEET

GENERAL NOTES

Maintenance of St. Louis County Traffic Signal Interconnect Facilities During Construction:

www.stlouisco.com/PropertyandRoads/Transportation/TransportationPublications&Manual

Monday thru Friday 9:00AM to 3:00PM
Monday thru Friday 7:00PM to 5:00AM
Saturday and Sunday..... All Day

Failure to comply with these requirements will result in liquidated damages being assessed or escrow funds will be withheld.

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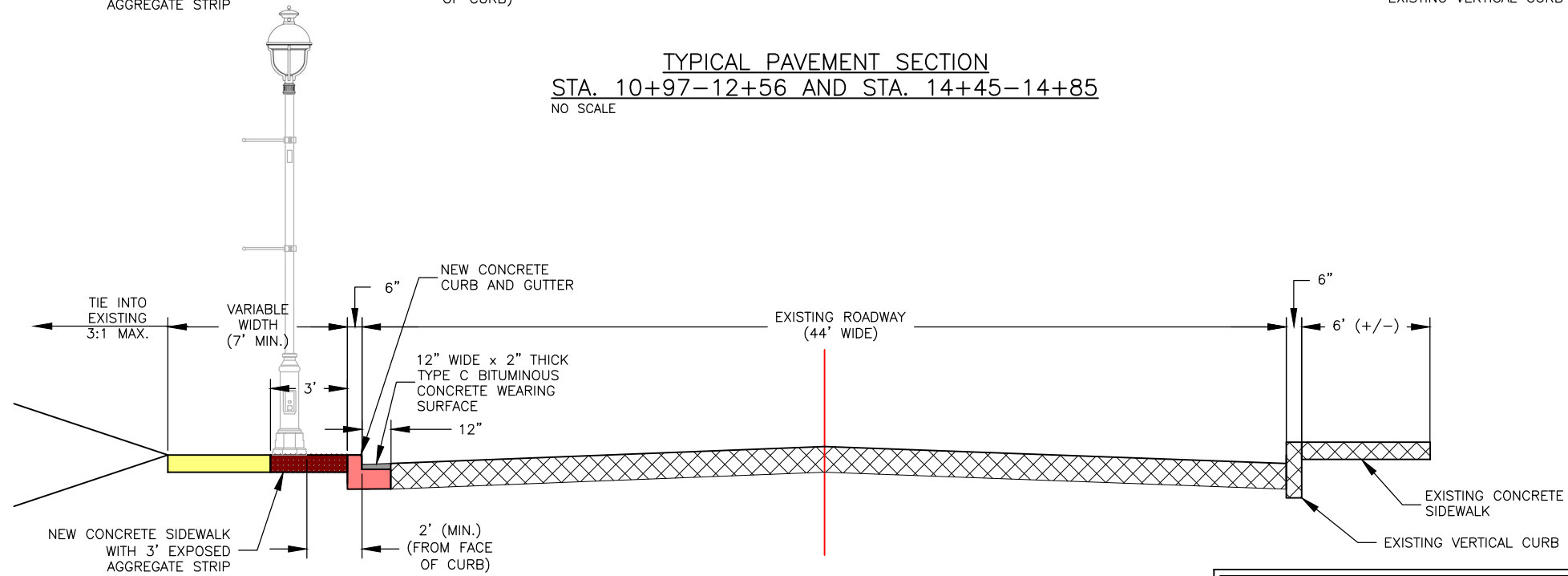
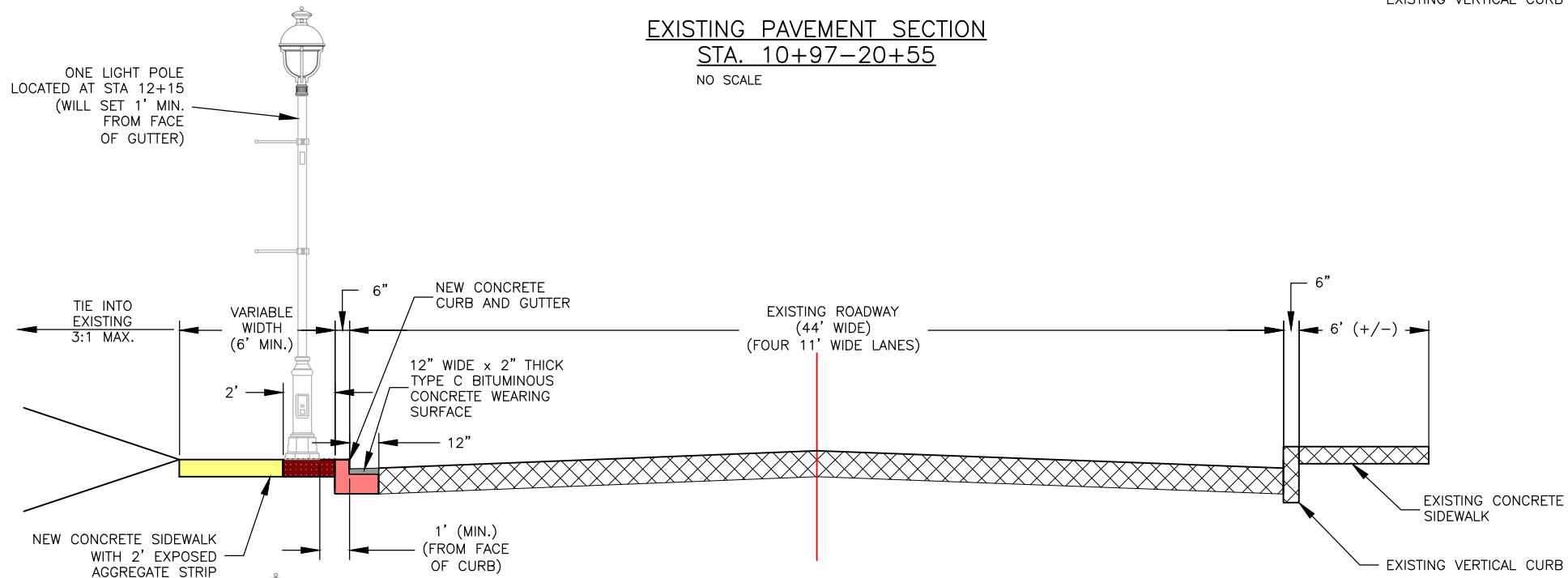
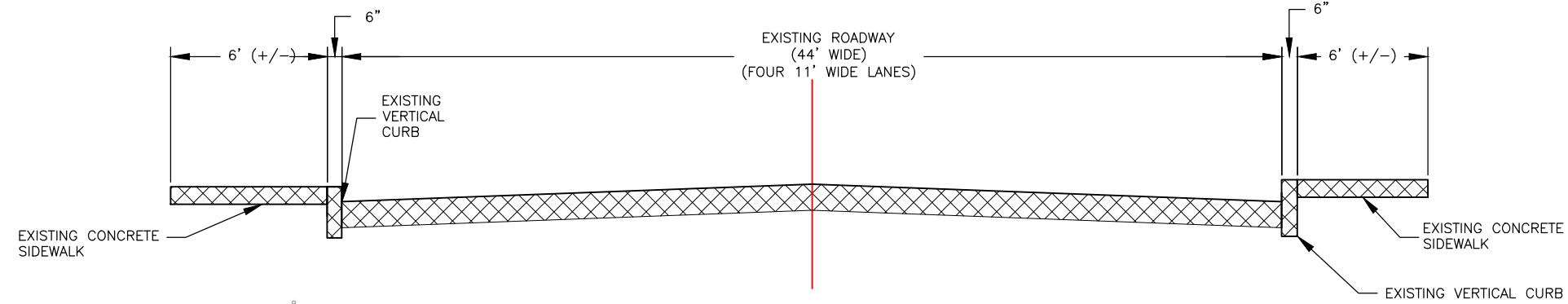
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CITY OF WEBSTER GROVES, MISSOURI**

LEGEND AND GENERAL NOTES					REVISION
D	P	S	D	DATE	

DATE:	SEPT. 2020
SCALE:	NO SCALE
ROI, NO:	SC17-674
OWG, NO:	LG-2

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph. 1 - Webster Groves\AUTOCAD DRAWINGS\TYPICAL SECTIONS.dwg Tab: TYS-1 Plotted on: Sep 21, 2020 - 3:30pm Plotted by: kweliff

TYPICAL CROSS SECTIONS



COMPLETE CONSTRUCTION REQUIREMENTS ARE NOT SHOWN ON THE TYPICAL ROADWAY SECTIONS. FOR COMPLETE REQUIREMENTS NECESSARY TO CONSTRUCT THE IMPROVEMENTS SEE DETAIL SHEETS IN THESE PLANS OR IN THE MODOT STANDARD PLANS AS APPROPRIATE.

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

314-842-4033 (tel.)
314-842-5957 (fax)
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ENGINEERING CERTIFICATE OF AUTHORITY NUMBER - 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
NUMBER
PE-200400859

9/21/20

KEVIN J. WOLFF
NO. PE-200400859
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

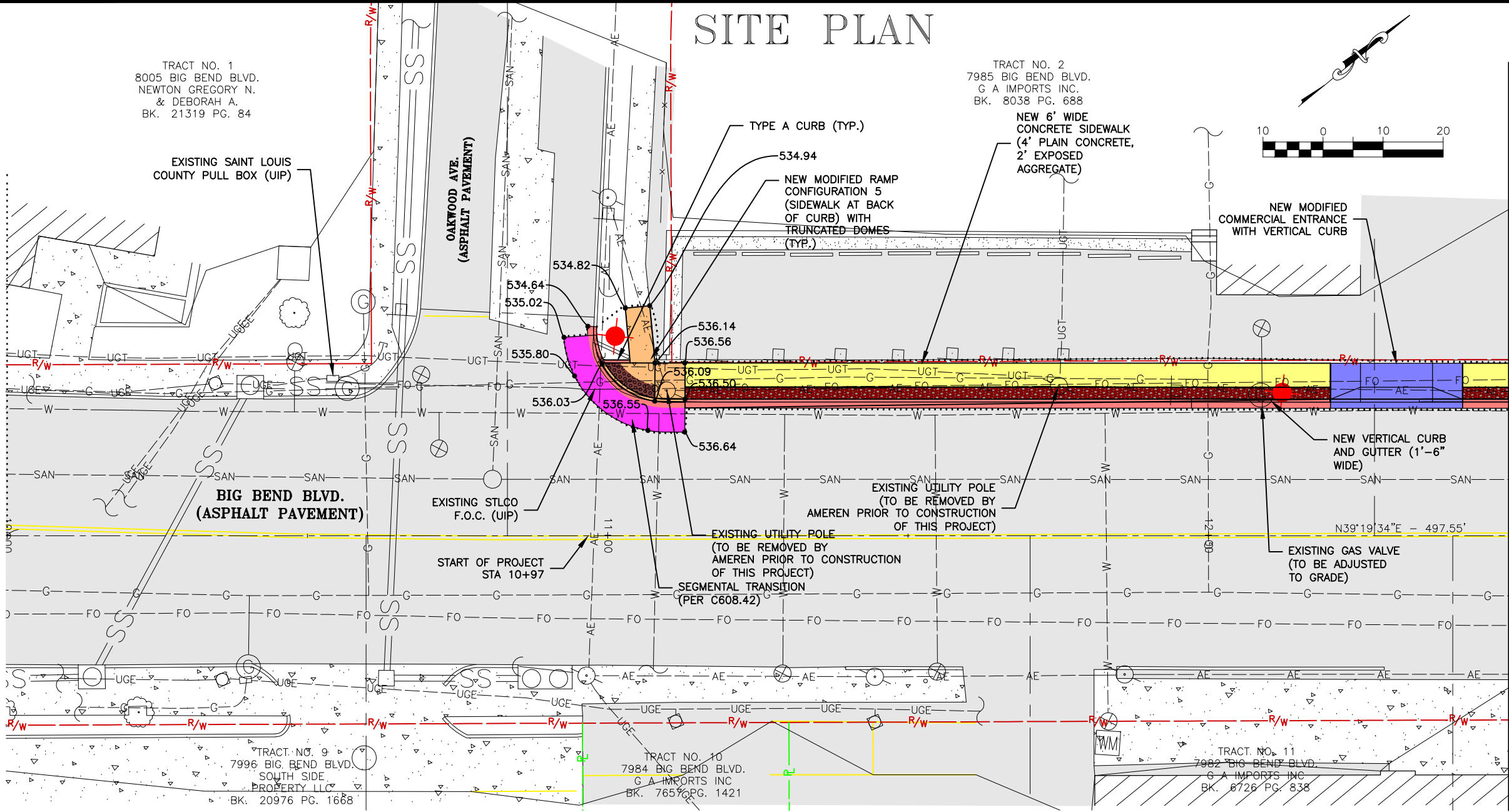
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

TYPICAL CROSS SECTIONS	
DATE:	REVISION:
DWN. BY:	APPD. BY:
K.J.W.	M.D.S.
DATE:	SEPT. 2020
SCALE:	NO SCALE
PROJ. NO:	SC17-674
DWG. NO:	TXS-1

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\SITE PLAN.dwg Tab: S-1 Plotted on: Sep 21, 2020 - 3:31pm Plotted by: kwolf



St. Louis County Department of Transportation shall have priority over non-County utilities and services in areas including but not limited to sidewalks and green space located within St. Louis County right-of-way or easements, either existing or proposed. No non-County utilities or services shall place or have conduits or cables within St. Louis County pull boxes, nor shall any non-County utilities or services place or have pull boxes/handholes accessing St. Louis County conduits or cables.

It is the responsibility of the contractor/developer to contact St. Louis County Department of Transportation, Operations Division (Signal Section) at (314) 615-0215 a minimum of 48 hours in advance of construction work for locating and marking existing underground traffic signal conduit.

If unanticipated disruption of, or damage to, a traffic signal facility occurs as a result of permitted work conducted by a Contractor, the Contractor's construction work within the right-of-way shall be halted. The Contractor's work within the right-of-way shall not be allowed to proceed until a repair is completed within 24 hours, unless approved otherwise by a representative from the St. Louis County Department of Transportation's Construction Division.

If the repair required to make the signal facility operational within the stated 24 hour time period is a temporary repair, then the Contractor shall, within 72 hours, effect a permanent repair to restore all traffic signal facilities to the same condition prior to the unanticipated disruption or damage, or to the condition specified in the approved construction plans.

Failure to comply with these requirements will result in liquidated damages being assessed or escrow funds being withheld.

Maintenance of St. Louis County Traffic Signal Interconnect Facilities During Construction

1) Unless noted otherwise, all traffic signal work on this project shall be in accordance with St. Louis County Standard Specifications for Road and Bridge Construction, "Division 900, Section 904 - St. Louis County Traffic Signals", and with "St. Louis County Standard Drawings - Traffic Signal Details". The Contractor shall have said references on the job site at all times during construction/installation of

the signalization equipment. The Section 904 specifications and the Traffic Signal Detail drawings are available at:

www.stlouisco.com/PropertyandRoads/Transportation/TransportationPublications&Manual

The Section 904 specifications and the Standard Drawings in effect for this project will be those that were available for viewing on the date the signal plans were approved. The contractor shall be responsible for checking the Standard Drawings Errata Sheet to ensure their set of drawings is current. It is the responsibility of the contractor/developer to contact St. Louis County Department of Transportation, Operations Division (Signal Section) at (314) 615-0215 a minimum of 48 hours in advance of construction work for locating and marking existing underground traffic signal conduit.

2) The County's traffic signal communication links are all vital to the operation of County's signal systems and shall be maintained for the duration of this project. It shall be the Contractor's responsibility to maintain these links within their work zones. A) Any approved scheduled disruption of a traffic signal communication link shall be kept to an absolute minimum and shall only be allowed during the following times:
Monday thru Friday 9:00AM to 3:00PM
Monday thru Friday 7:00PM to 5:00AM
Saturday and Sunday. All Day

The Contractor performing the permitted work shall contact the St. Louis County Department of Transportation's Operations Division, Signal Shop at (314) 615-0213 a minimum of two business days prior to any approved scheduled disruption of a traffic signal communication link. The County reserves the right to revise the time periods listed above. If the scheduled disruption cannot occur during the approved times, then the Contractor shall submit a plan, for the County's approval, to provide a TEMPORARY traffic signal communication link. If approved, the Contractor shall install the TEMPORARY communication link and verify the link is functional before proceeding with the scheduled disruption.

Failure to comply with these requirements shall result in the Contractor's construction work within the public right-of-way being halted until all requirements are met.

B) If an unanticipated disruption of a traffic signal communication link occurs as a result of permitted work conducted by a Contractor, the Contractor's construction work within the right-of-way shall be halted. The Contractor's work within the right-of-way shall not be allowed to proceed until a temporary repair to the link is completed, unless approved otherwise by a representative from the St. Louis County Department of Transportation, Construction Division. Temporary repairs shall not be considered final repairs. The Contractor shall be responsible for restoring all traffic signal communication links to the same condition prior to the unanticipated disruption or to the condition specified in the approved construction plans. Failure to comply with these requirements will result in liquidated damages being assessed or escrow funds will be withheld.

Maintenance of Vehicle Detection Systems During Construction.

1) Vehicle detection systems are essential to the efficient operation of all traffic signals. Prior to any disruption of service to an existing vehicle detection system, the Contractor shall furnish and install a temporary vehicle detection system for the approach(es) where the existing vehicle detection system is to be disrupted. The Contractor shall make any and all necessary adjustment(s) for the proper operation of the temporary detection equipment. The Contractor will also be responsible for the maintenance of the temporary detection system equipment until the permanent vehicle detection system is installed and operational.

The Contractor shall provide to the County the type of temporary vehicle detection system to be used a minimum of two business days in advance of installing the temporary equipment for approval, by contacting the St. Louis County Signal Shop at (314) 615-0213. The County has the sole right to approve, modify, or reject the temporary vehicle detection system proposed by the Contractor. The Contractor shall not disrupt any existing vehicle detection system before a temporary vehicle detection system is operational and approved by the County.

Failure to comply with these requirements shall result in the Contractor's work within the public right-of-way being halted until all requirements are met.

2) In the event the Contractor causes a disruption to a vehicle detection system and there is no temporary vehicle detection system in place, the Contractor's

construction work within the public right-of-way shall be halted. The Contractor's construction work within the public right-of-way shall not be allowed to proceed until a temporary vehicle detection system is installed, unless approved otherwise by a representative from the St. Louis County Department of Transportation's Construction Division.

If the Construction Division approves the Contractor's construction work to proceed without providing a temporary vehicle detection system, the Contractor has a maximum of 14 calendar days to either install an approved temporary or permanent vehicle detection system. The Contractor shall provide to the County within two business days of the disruption of the vehicle detection system:

- The vehicle detection system to be used.
- A schedule detailing the timeline for installation of the temporary vehicle detection system.

The County has the sole right to approve, modify, or reject the temporary vehicle detection system and schedule proposed by the Contractor.

Temporary vehicle detection systems shall not be considered final improvements. The Contractor shall be responsible for restoring all vehicle detection systems to the same condition prior to the disruption or to the condition specified in the approved construction plan.

Failure to comply with these requirements will result in liquidated damages being assessed at a rate of \$100 per lane per day or escrow funds being withheld.

MATCH LINE STA. 12+50 SEE SHEET S-2

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LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFE, P.E.
N. J. WOLFE, P.E.

9/21/20

KEVIN J. WOLFE
NO. PE-200400889
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

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BIG BEND BLVD. SIDEWALK PHASE 1

FEDERAL PROJECT NO. STP 5537(623)

CITY OF WEBSTER GROVES, MISSOURI

SITE PLAN

DATE	REVISION

DWN. BY: K.J.W. APPD. BY: M.D.S.

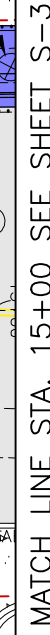
DATE: SEPT. 2020

SCALE: 1" = 20'

PROJ. NO: SC17-674

DWG. NO: S-1

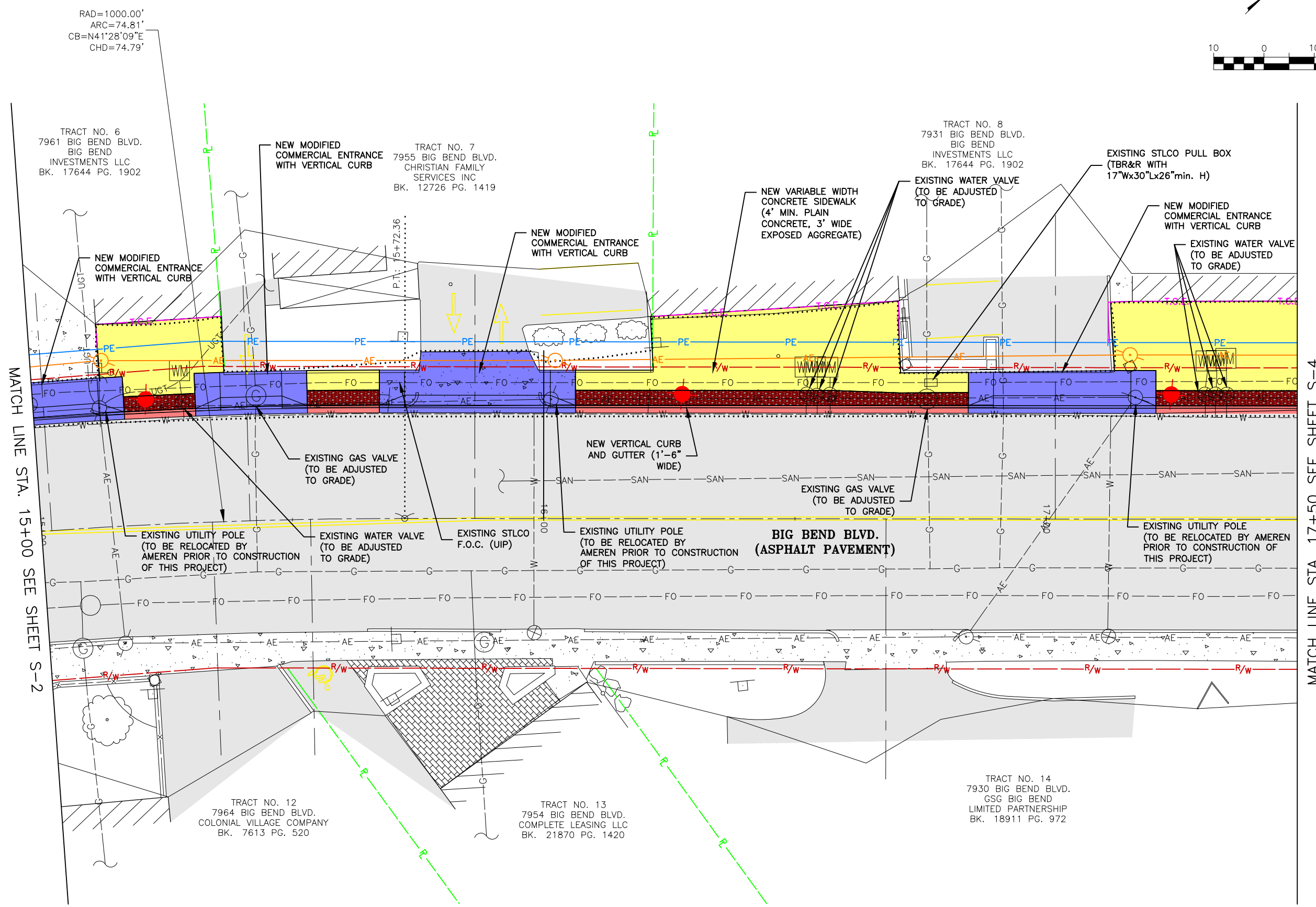
STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3



STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> SITE PLAN </div>	REVISION:								
	DATE:								
	DWN. BY:	K.J.W.	APP'D. BY:	M.D.S.					
	DATE:	SEPT. 2020							
	SCALE:	1" = 20'							
PROJ. NO:	SC17-674								
DWG. NO:	S-2								

SITE PLAN



MATCH LINE STA. 15+00 SEE SHEET S-2

MATCH LINE STA. 17+50 SEE SHEET S-4

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737 RUDDER ROAD
FENTON, MISSOURI 65026

STATE OF MISSOURI
KEVIN J. WOLFF, P.E.
NUMBER
PE-200400899
REGISTERED PROFESSIONAL ENGINEER
FOR SO ENGINEERING LLC
DBA COCHRAN

9/21/20
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SITE PLAN

DATE: _____
DWN. BY: K.J.W.
DATE: _____
SCALE: 1" = 20'
PROJ. NO: SC17-674
DWG. NO: _____

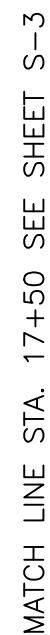
APPD. BY: M.D.S.
DATE: SEPT. 2020

S-3

BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\SITE PLAN.dwg Tab: S-3 Plotted on: Sep 21, 2020 - 3:31pm Plotted by: kwolf



MATCH LINE STA 20+00 SEE SHEET S-5

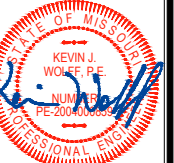
TRACT NO. 22
7924 BIG BEND BLVD.
GSG BIG BEND
LIMITED PARTNERSHIP
BK. 18911 PG. 972

TRACT NO. 23
7906 BIG BEND BLVD.
RAPINI VINCENT U. &
PATRICIA A.
BK. 11678 PG. 844

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> SITE PLAN </div>	REV/IRON:								
	DATE:								
	DWN. BY:	K.J.W.	APPD. BY:	M.D.S.					
	DATE:	SEPT. 2020							
	SCALE:	1" = 20'							
	PROJ. NO:	SC17-674							
	DWG. NO:	<div style="font-size: 2em; font-weight: bold;">S-4</div>							

Drawing name: J:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\SITE PLAN.dwg Tab: S-4 Plotted on: Sep 21, 2020 - 3:31pm Plotted by: kwloff



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NO. PE-2004000859
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC,
DBA COCHRAN
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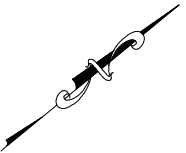
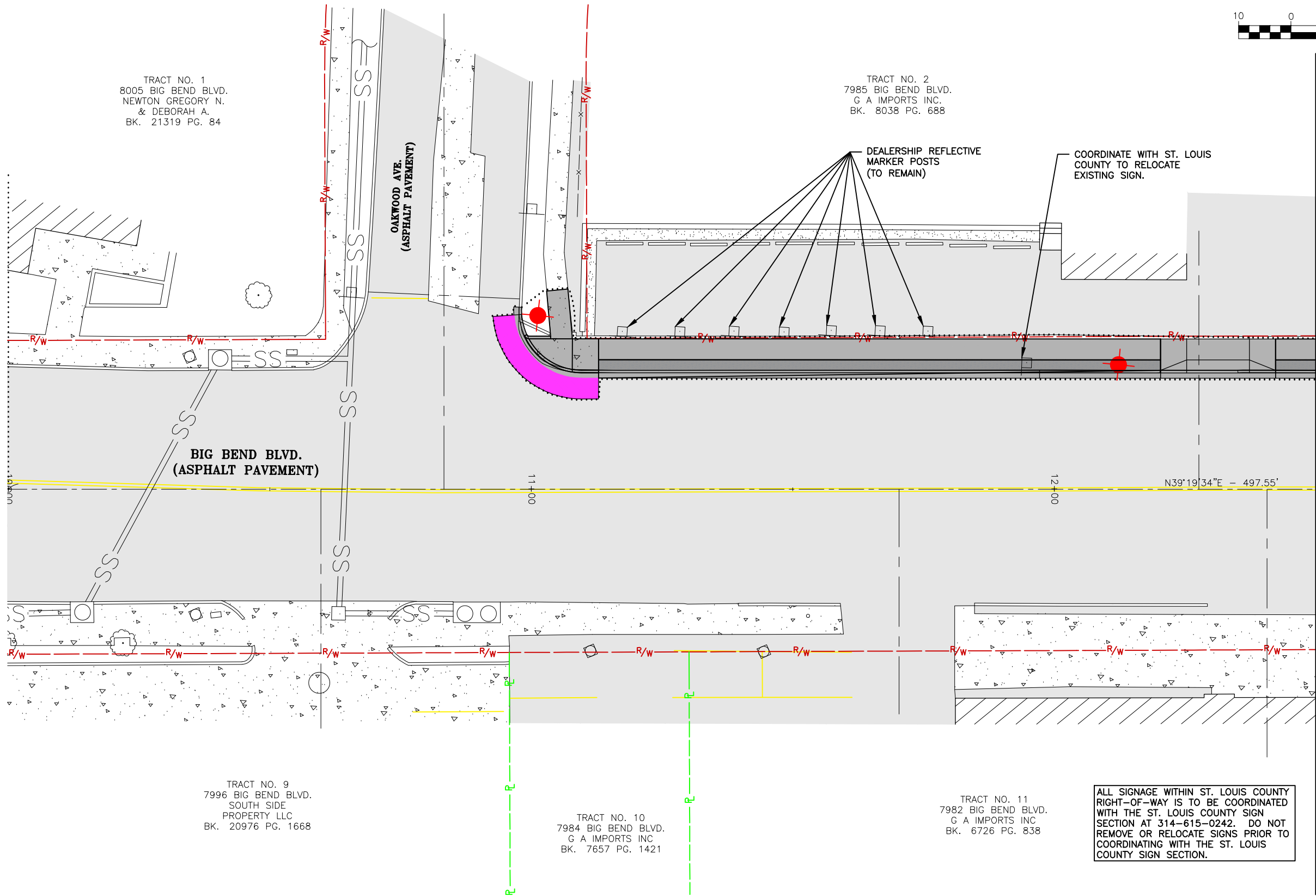
***BIG BEND BLVD, SIDEWALK PHASE I
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI***

SUE PLAN	DATE:								
	REVISION:								
	DWN. BY:	K.J.W.		APPD. BY:					
				M.D.S.					
	DATE:	SEPT. 2020							
	SCALE:	1" = 20'							
	PROJ. NO:	SC17-674							
	DWG. NO:	S-5							

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\PAVEMENT AND MARKING PLAN.dwg Tab: SP-1 Plotted on: Sep 21, 2020 - 3:31pm Plotted by: kwolf

SIGNAGE PLAN



MATCH LINE STA. 12+50 SEE SHEET SP-2

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LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
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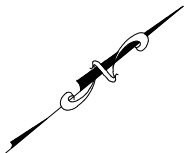
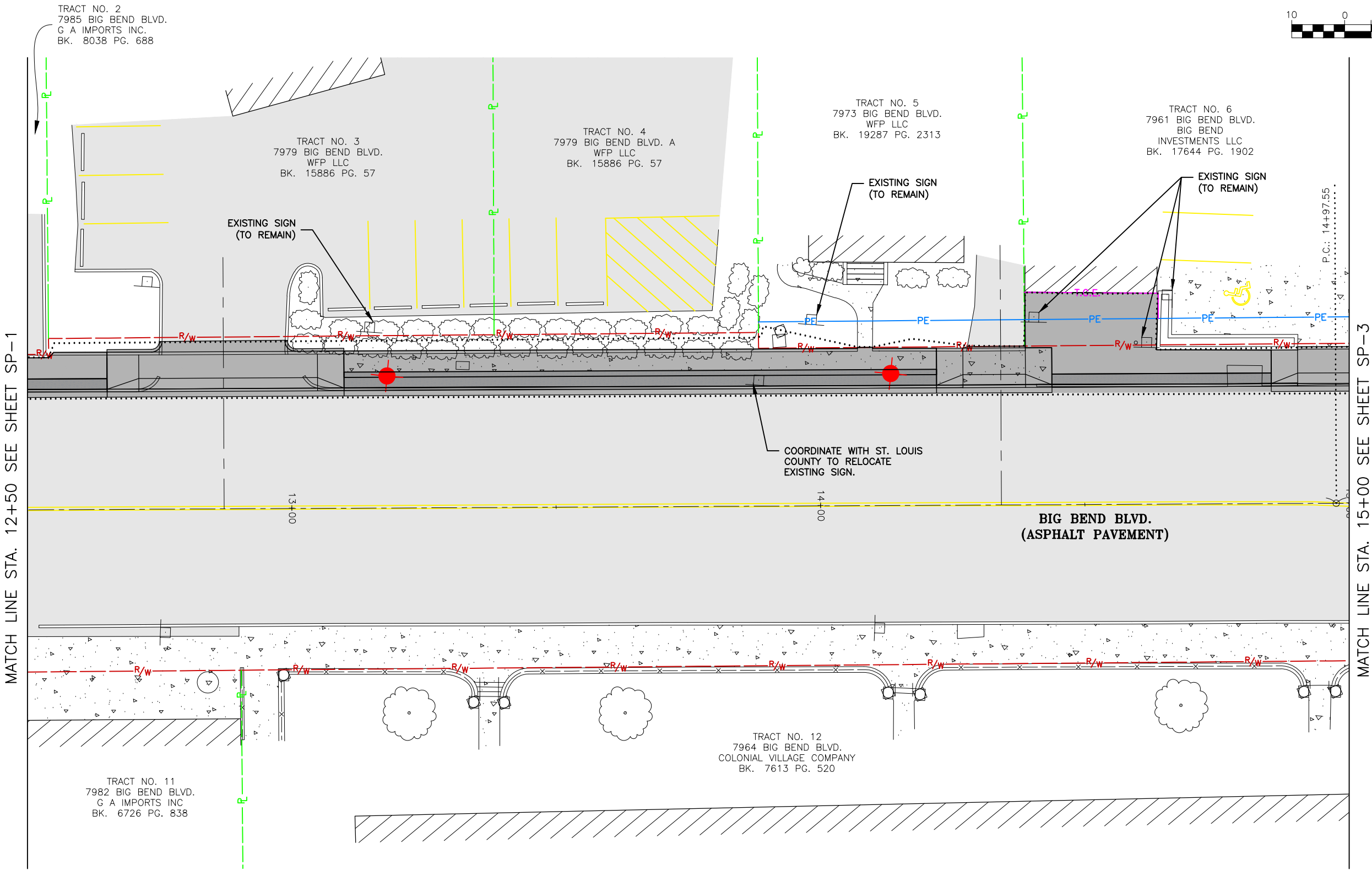
BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

DATE	REVISION

DWN. BY:	APPD. BY:
K.J.W.	M.D.S.
DATE:	SEPT. 2020
SCALE:	1" = 20'
PROJ. NO:	SC17-674
DWG. NO:	SP-1

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

SIGNAGE PLAN



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STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

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DBA COCHRAN

9/21/20

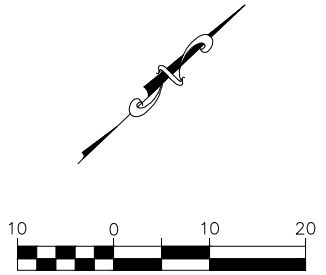
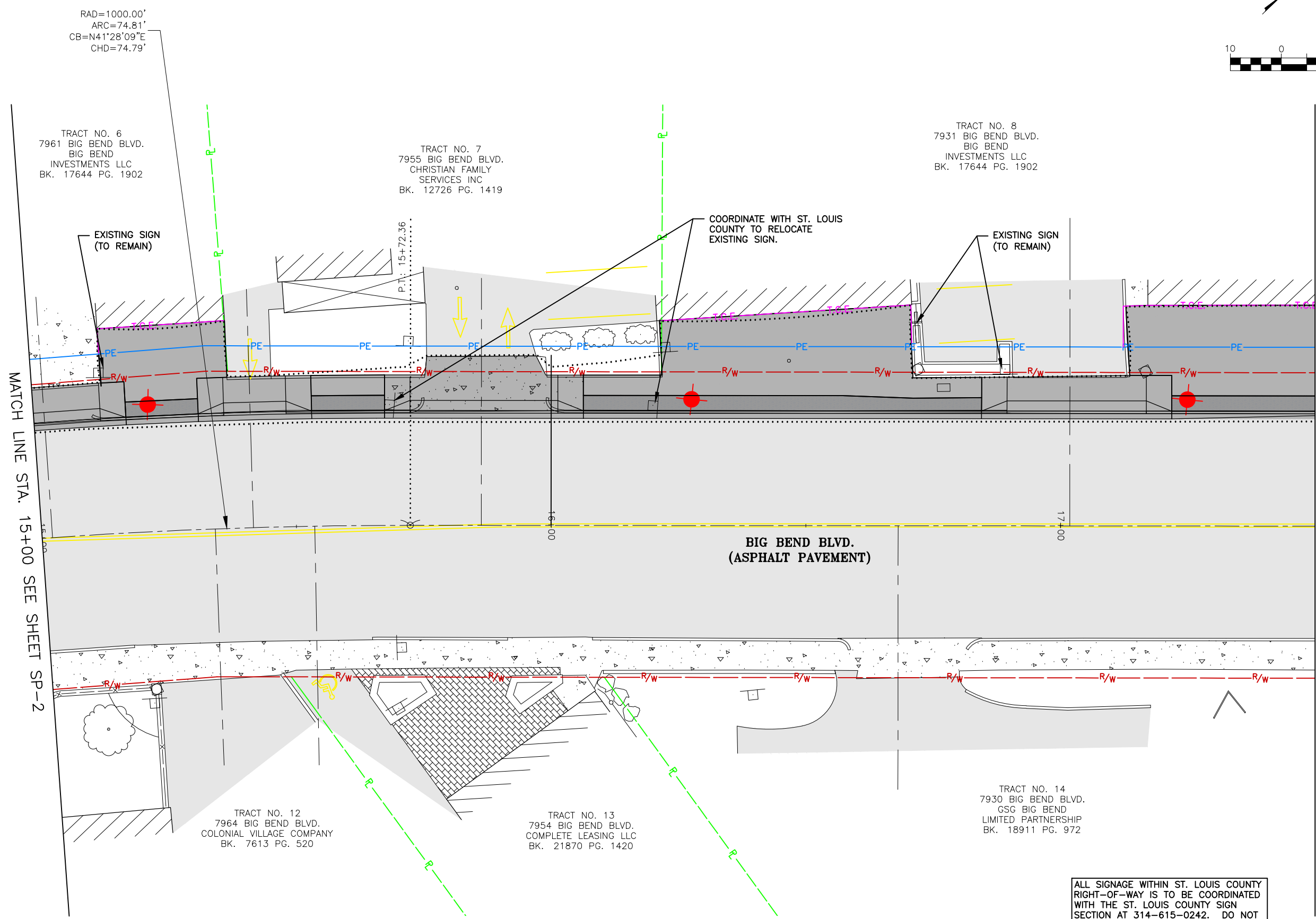
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

SIGNAGE PLAN	
DATE:	REVISION:
DWN. BY: K.J.W.	APPD. BY: M.D.S.
DATE:	SEPT. 2020
SCALE:	1" = 20'
PROJ. NO:	SC17-674
DWG. NO:	SP-2

SIGNAGE PLAN



RAD=1000.00'
ARC=74.81'
CB=N41°28'09"E
CHD=74.79'

TRACT NO. 6
7961 BIG BEND BLVD.
BIG BEND
INVESTMENTS LLC
BK. 17644 PG. 1902

TRACT NO. 7
7955 BIG BEND BLVD.
CHRISTIAN FAMILY
SERVICES INC
BK. 12726 PG. 1419

TRACT NO. 8
7931 BIG BEND BLVD.
BIG BEND
INVESTMENTS LLC
BK. 17644 PG. 1902

BIG BEND BLVD.
(ASPHALT PAVEMENT)

TRACT NO. 12
7964 BIG BEND BLVD.
COLONIAL VILLAGE COMPANY
BK. 7613 PG. 520

TRACT NO. 13
7954 BIG BEND BLVD.
COMPLETE LEASING LLC
BK. 21870 PG. 1420

TRACT NO. 14
7930 BIG BEND BLVD.
GSG BIG BEND
LIMITED PARTNERSHIP
BK. 18911 PG. 972

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WITH THE ST. LOUIS COUNTY SIGN
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COORDINATING WITH THE ST. LOUIS
COUNTY SIGN SECTION.

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

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STATE OF MISSOURI

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NO. PE-200400899
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

9/21/20

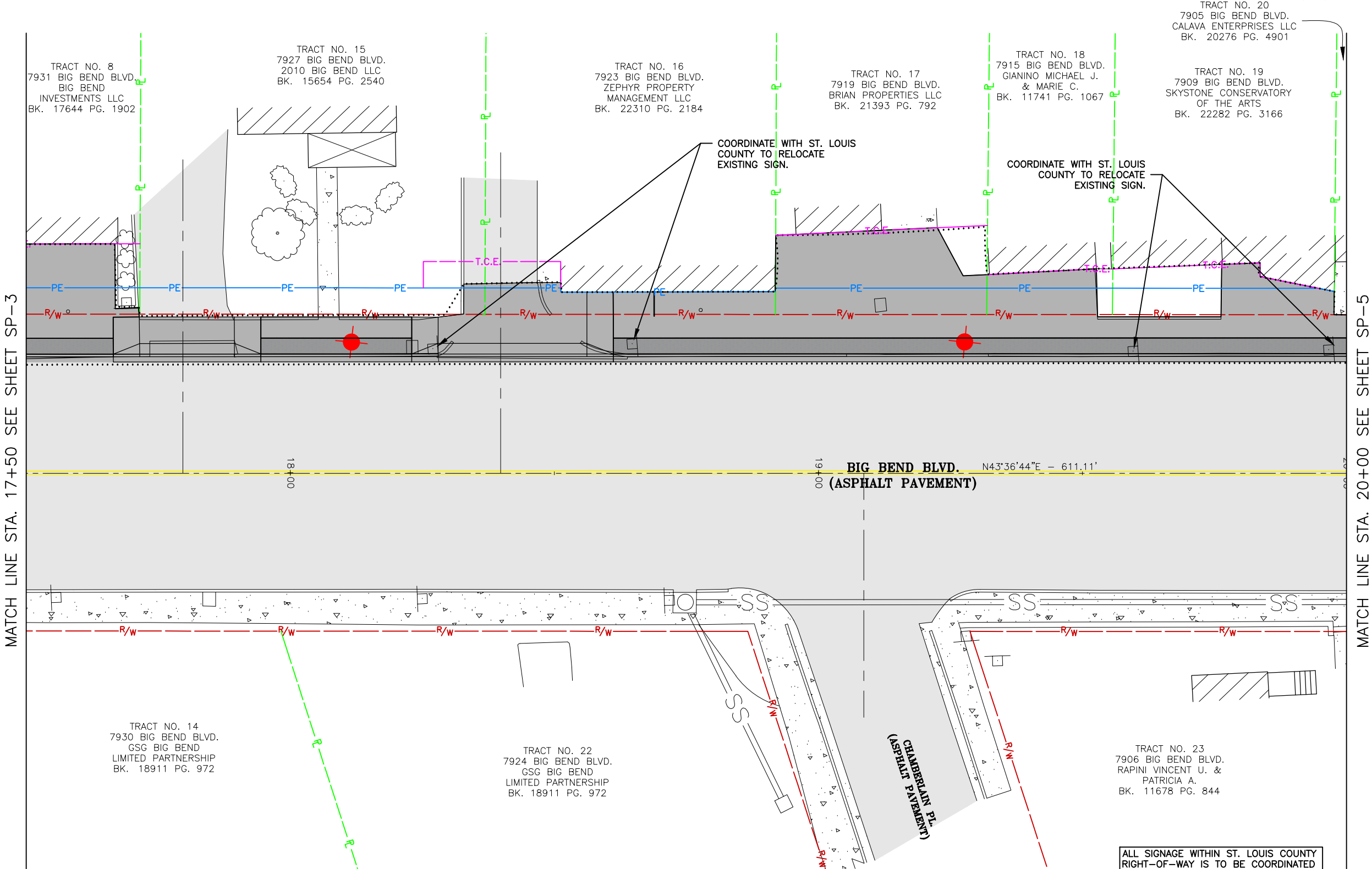
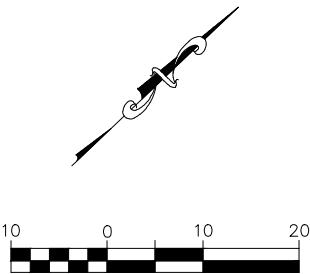
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

SIGNAGE PLAN	
DATE:	REVISION:
DWN. BY: K.J.W.	APPD. BY: M.D.S.
DATE:	SEPT. 2020
SCALE:	1" = 20'
PROJ. NO:	SC17-674
DWG. NO:	SP-3

SIGNAGE PLAN



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STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

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STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
NUMBER
PE-200400859

9/21/20

KEVIN J. WOLFF
NO. PE-200400859
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

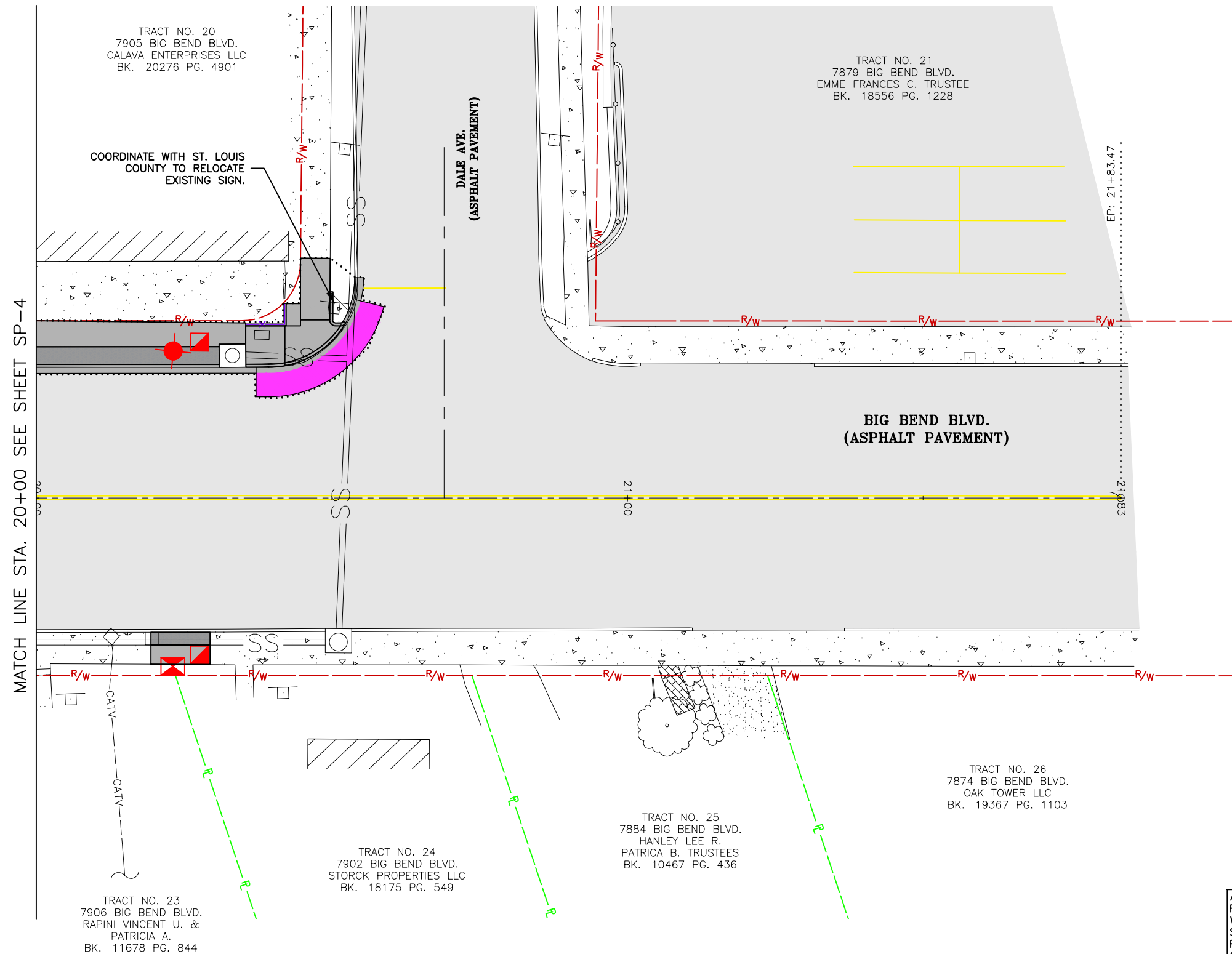
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FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

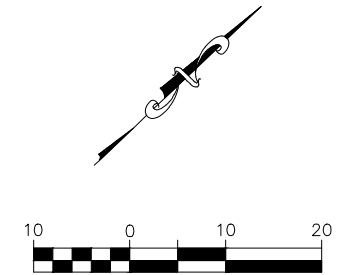
SIGNAGE PLAN	
DATE:	REVISION:
DWN. BY: K.J.W.	APPD. BY: M.D.S.
DATE:	SEPT. 2020
SCALE:	1" = 20'
PROJ. NO:	SC17-674
DWG. NO:	SP-4

SIGNAGE PLAN



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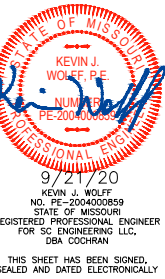
STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3



WAGE PLAN	K.J.W.	M.D.S.
	DATE: SEPT. 2020	
	SCALE: 1" = 20'	
	PROJ. NO: SC17-674	
	DWG. NO:	

SP-5

**BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI**



COCHRAN

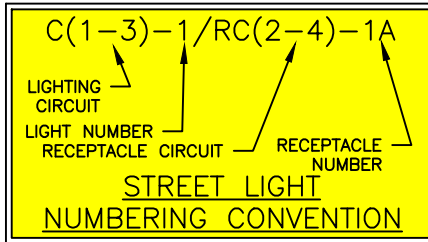
737 RUDDER ROAD
FENOM, MISSOURI 63026
314-842-5957 (fax)
www.cochraneng.com

Civil Engineering
Land Surveying
Site Development
Master Planning
General Consulting

ENGINEERING CERTIFICATE OF AUTHORITY NUMBER - 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

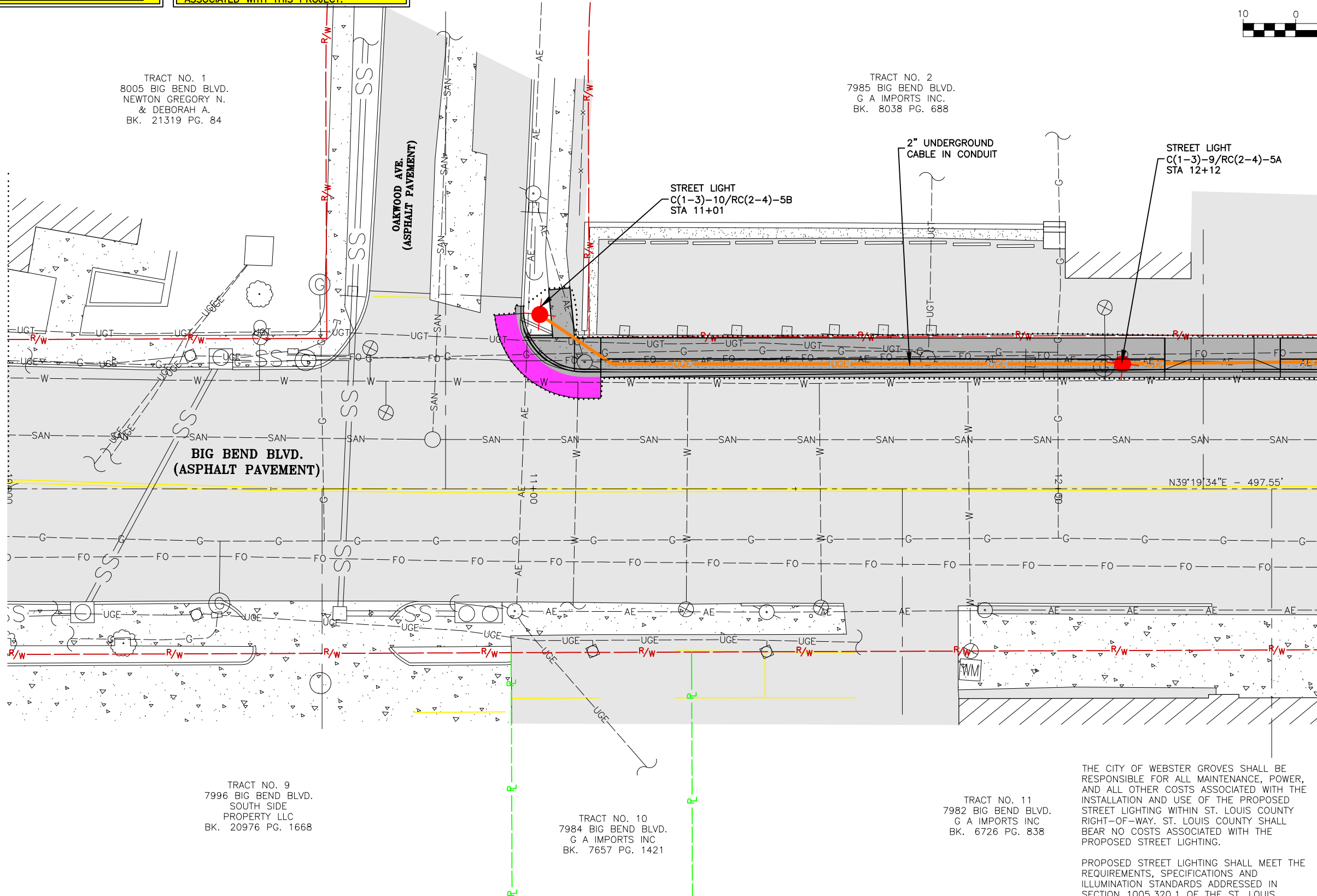
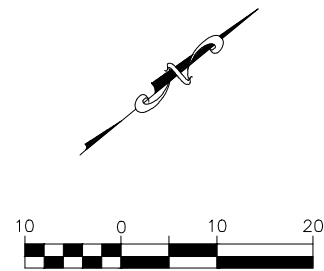
Drawing name: J:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\PAVEMENT AND MARKING PLAN.dwg Tab: SP-5 Plotted on: Sep 21, 2020 - 3:31pm Plotted by: kwolff

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\LIGHTING PLAN.dwg Tab: L-1 Plotted on: Sep 21, 2020 - 3:31pm Plotted by: knellf



NOTE:
THE PLANS DEPICT CONDUIT ROUTING OF
THE NEW UNDERGROUND ELECTRIC FOR
STREET LIGHTING IN SCHEMATIC FORM ONLY.
NEW CONDUIT ROUTING SHALL NOT
INTERFERE WITH NEW OR EXISTING UTILITIES,
SIGNS, TREES OR OTHER IMPROVEMENTS.
THEREFORE, THE CONTRACTOR SHALL
COORDINATE THE INSTALLATION OF ANY
UNDERGROUND ELECTRIC WITH THE EXISTING
UTILITIES AND OTHER IMPROVEMENTS
ASSOCIATED WITH THIS PROJECT.

LIGHTING PLAN



MATCH LINE STA. 12+50 SEE SHEET L-2

THE CITY OF WEBSTER GROVES SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, POWER, AND ALL OTHER COSTS ASSOCIATED WITH THE INSTALLATION AND USE OF THE PROPOSED STREET LIGHTING WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY. ST. LOUIS COUNTY SHALL BEAR NO COSTS ASSOCIATED WITH THE PROPOSED STREET LIGHTING.

PROPOSED STREET LIGHTING SHALL MEET THE REQUIREMENTS, SPECIFICATIONS AND ILLUMINATION STANDARDS ADDRESSED IN SECTION 1005.320.1 OF THE ST. LOUIS COUNTY SUBDIVISION ORDINANCE. ST. LOUIS COUNTY SHALL NOT BE RESPONSIBLE FOR ANY OF INSTALLATION COST, POWER CHARGES, MAINTENANCE, OR OTHER COSTS ASSOCIATED WITH STREET LIGHTING.

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

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LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
NO. PE-200400899
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

9/21/20

THIS SHEET HAS BEEN SIGNED,
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PREPARED BY THIS PROFESSIONAL.

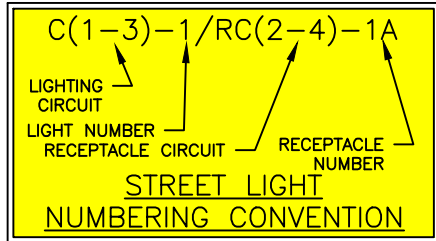
BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

DATE	REVISION	DATE	REVISION
DWN. BY:	K.J.W.	APPD. BY:	M.D.S.
DATE:		DATE:	SEPT. 2020
SCALE:	1" = 20'	PROJ. NO.:	SC17-674
DWG. NO.:			

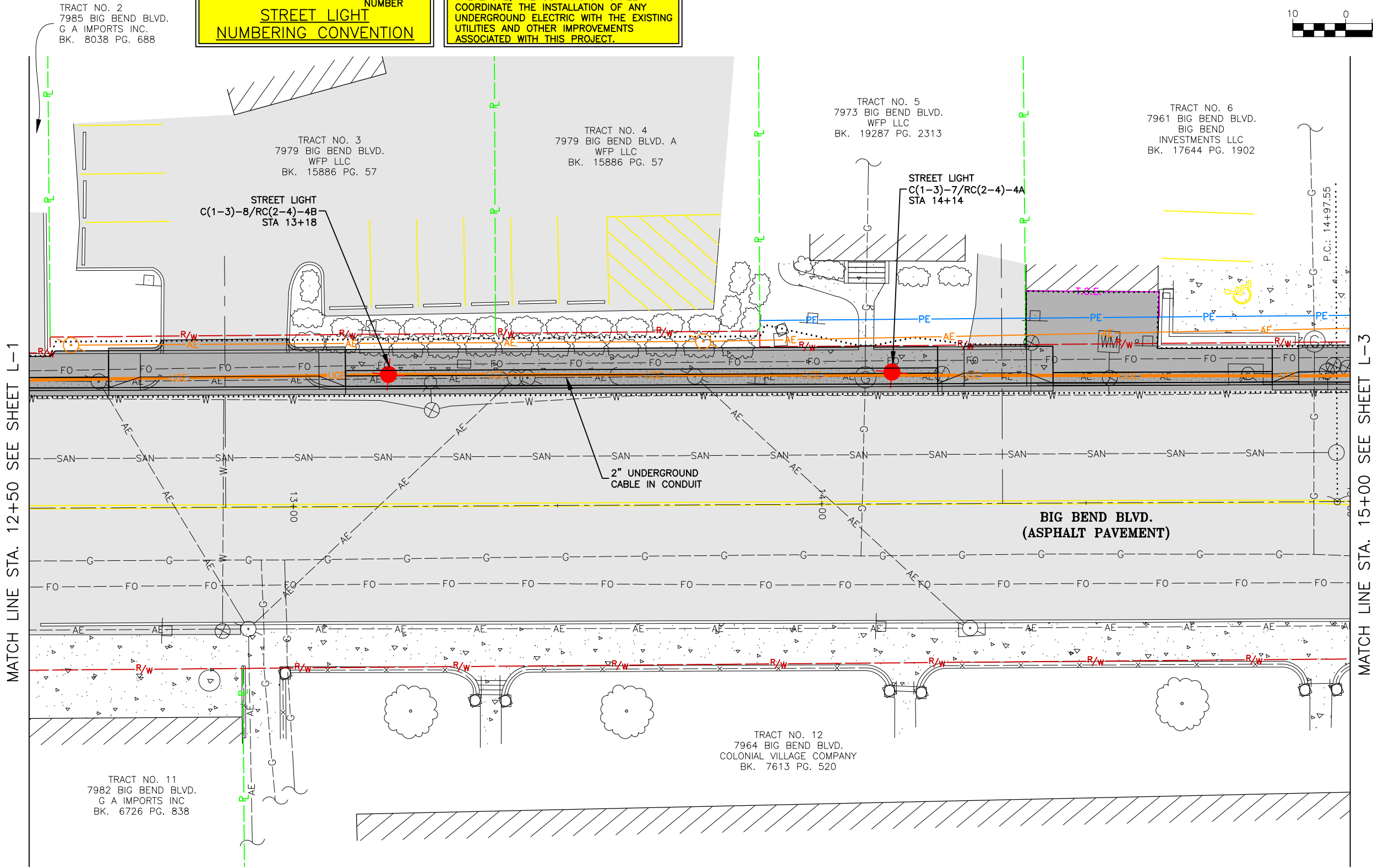
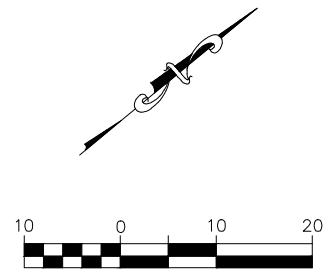
L-1

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\LIGHTING PLAN.dwg Tab: L-2 Plotted on: Sep 21, 2020 - 3:31pm Plotted by: knloff

LIGHTING PLAN



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ENGINEERING CERTIFICATE OF AUTHORITY NUMBER - 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
NUMBER
PE-200400859

9/21/20

KEVIN J. WOLFF
NO. PE-200400859
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

LIGHTING PLAN	DATE:	REVISION:	DWN. BY:	APPD. BY:
			K.J.W.	M.D.S.
	DATE:			
	SCALE:			
	1" = 20'			
	PROJ. NO:			
	SC17-674			
	DWG. NO:			
	L-2			

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

LIGHTING PLAN

C(1-3)-1/RC(2-4)-1A

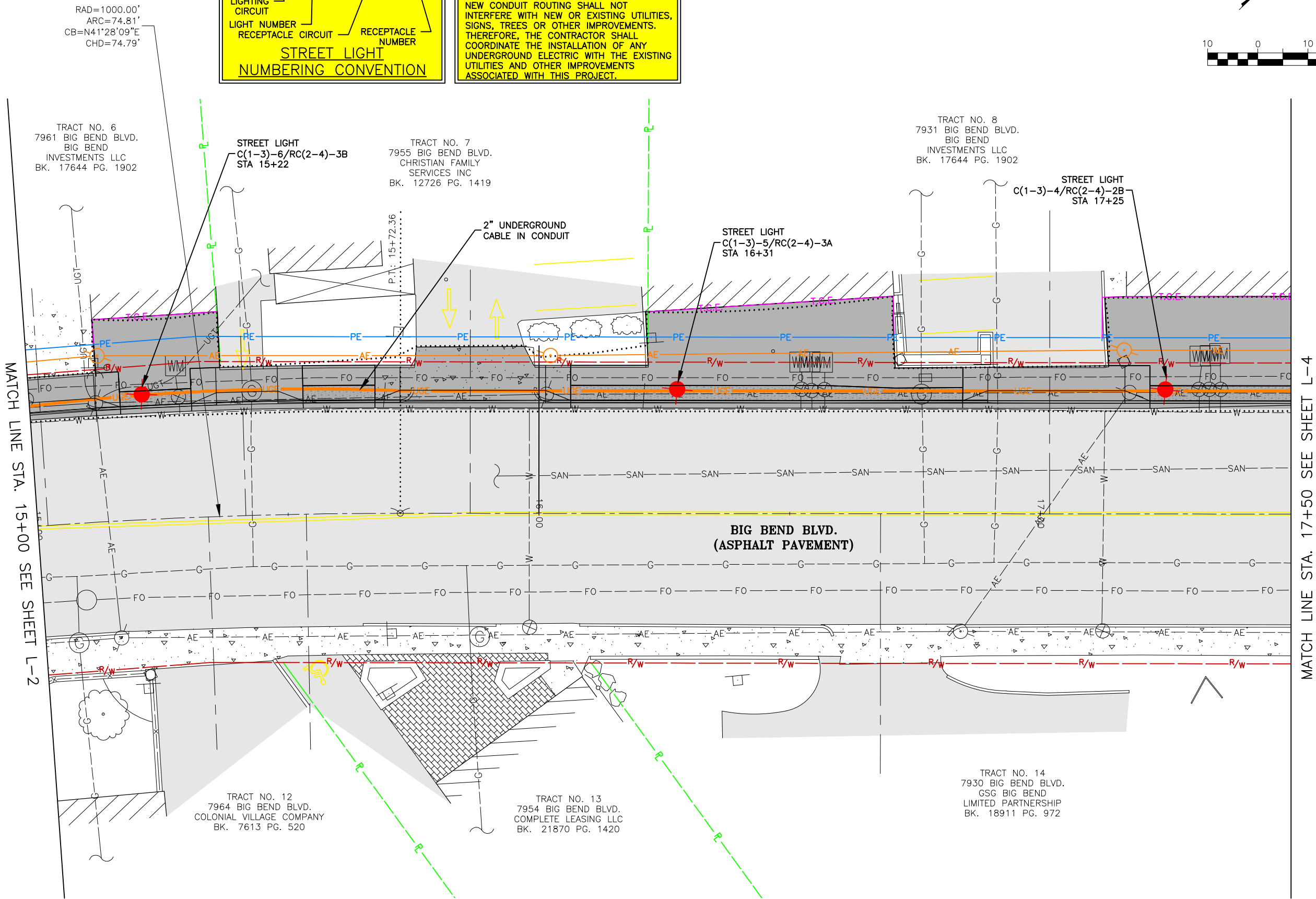
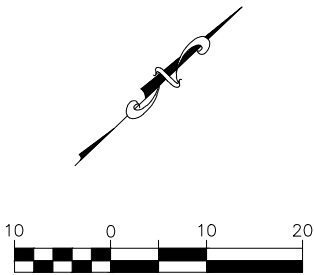
LIGHTING
CIRCUIT

RECEPTACLE
CIRCUIT

RECEPTACLE
NUMBER

STREET LIGHT
NUMBERING CONVENTION

NOTE:
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ENGINEERING CERTIFICATE OF AUTHORITY NUMBER - 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
NUMBER
PE-200400899

9/21/20

KEVIN J. WOLFF
NO. PE-200400899
STATE OF MISSOURI
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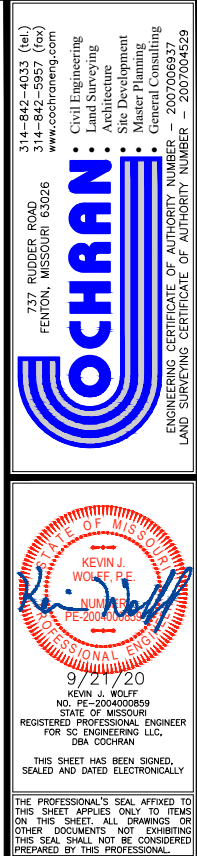
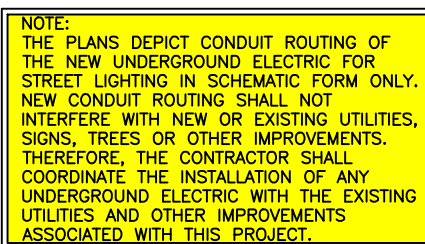
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

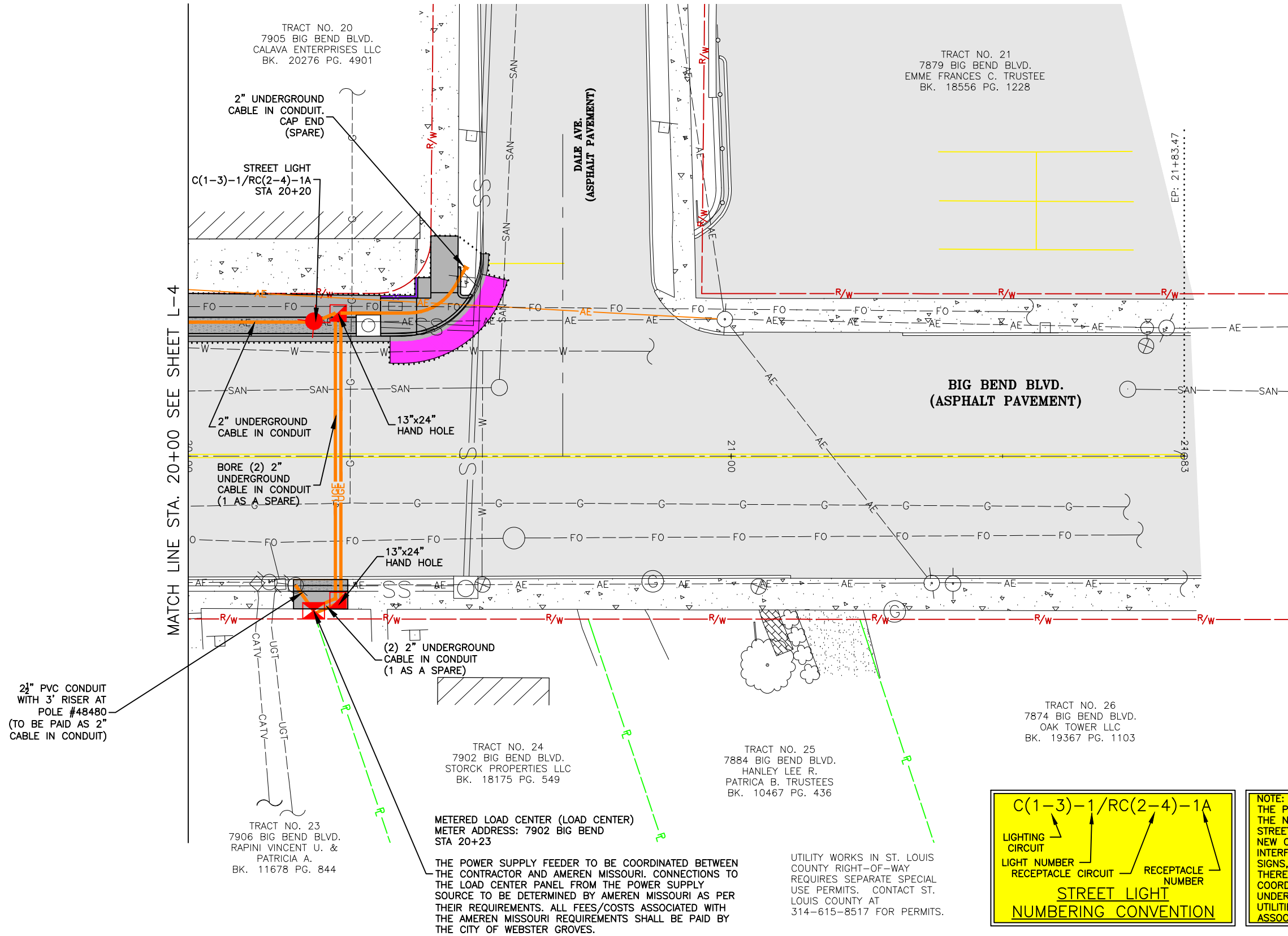
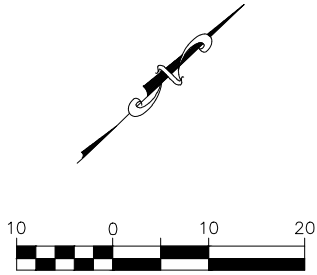
LIGHTING PLAN	
DATE:	REVISION:
DWN. BY: K.J.W.	APPD. BY: M.D.S.
DATE: SEPT. 2020	
SCALE: 1" = 20'	
PROJ. NO: SC17-674	
DWG. NO:	
L-3	

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3



LIGHTING PLAN	DATE:								
	REV/NO:								
	DWN. BY:	K.J.W.				APPD. BY:			
	DATE:	SEPT. 2020							
	SCALE:	1" = 20'							
	PROJ. NO:	SC17-674							
	DWG. NO:	L-4							

LIGHTING PLAN



COCHRAN

Civil Engineering
Land Surveying
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200700693
200700642529

ENGINEERING CERTIFICATE OF AUTHORITY NUMBER
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER

3124-842-5957 (fax)
www.cochraneng.com

737 KUDDER ROAD
FENTON, MISSOURI 63226



**BIG BEND BLVD, SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI**

LIGHTING PLAN									
	REV/NO:								
	DATE:								
	DWN. BY:	K.J.W.				APPD. BY:			
						M.D.S.			
	DATE:	SEPT. 2020							
	SCALE:	1" = 20'							
	PROJ. NO:	SC17-674							
	DWG. NO:	L-5							

BASE MAP 22K2 & 22K3

NEW	REVISIONS			
1-11-90	11-2-98	7-31-07	1-1-10	10-1-12

ST. LOUIS COUNTY PROJ.

SHEET NUMBER	TOTAL SHEETS

GENERAL NOTES

- Do not scale drawing, follow dimensions.
- Construction joint and tie bars may be omitted when curb is poured integral with pavement.
- Minimum thickness for pavement is:

Concrete pavement thickness = $\frac{(T)}{12}$

Bituminous Concrete pavement thickness = $\frac{(T)}{12}$

All residential minor and local streets 6 in. 9 in.

Residential collector, residential major collector, all County and non-residential streets 7 in. 10-1/2 in.

All Arterial Streets 8 in. 12 in.
- Type "G" transverse joint is required for Arterial, County, non-residential and residential major collector streets. Use Type "C" transverse joint for all others.
- For subdivision or minor streets having 6 inch thick concrete pavement, 1/2 inch Φ deformed tie bars, 30 inches long at 30 inch centers, shall be used for Type "B" longitudinal joints.
- Refer to pavement construction details for "Integral Vertical Curb and Concrete Pavement Typical Sections and Details", Standard Drawing C502.01 and "Integral Rolled Curb and Concrete Pavement Typical Sections and Details", Standard Drawing C502.02 for joint and bar requirements for different street classifications. Note that width and location of each poured portion of the pavement may change the type and location of joint required.
- All deformed bars for joints and curbs shall be in accordance with AASHTO M 31, Grade 40 and epoxy coated, conforming to the requirements in Section 1057.4 of the "St. Louis County Standard Specifications" manual.
- Length of the tie bars shall be equal to the thickness of pavement plus the height of curb less 3 inches. Tie bars shall be placed at 24 inch centers.
- Transverse or longitudinal construction joints in slip formed pavements may be made with a groover or tool, if such device has been approved in advance by the Department.
- The free end of the dowel bar for a length of at least 11 inches shall be coated with an approved graphite grease conforming to Section 1057.3.1 of the "St. Louis County Standard Specifications" manual, or may substitute completed basket units pre-dipped in an approved bond breaker solution conforming to Section 1057.3.2.
- All dowel bars 18 inches long at 12 inch centers shall be epoxy coated.
- Superpave SP 125 is to be used in lieu of Type "C" bituminous concrete on Arterial roads, when directed by the Department or when specified in the County contract documents.
- Certain streets will be required to overlay the gutter with 2 inches of Type "C" bituminous concrete wearing surface as directed by the Department.
- JOINT SEALANT - The shape factor (depth/width) for liquid joint sealants should be no more than 1 for hot-pour sealants and no more than 0.5 for cold-pour sealants. Sealants shall be recessed between no less than 1/8 inch but no more than 1/4 inch below the pavement surface to avoid extrusion problems (when the joint closes and squeezes the material up through the reservoir exposing it to traffic). Backer rod of a diameter two times the width of the joint is required to accomplish this when expansion joint filler is not specified. Joint filler shall be recessed to accomplish the above for the specified joint sealant material.
- Sawcut to achieve shape factor = 1.

SAINT LOUIS COUNTY
DEPARTMENT OF HIGHWAYS AND TRAFFIC
CLAYTON, MISSOURI

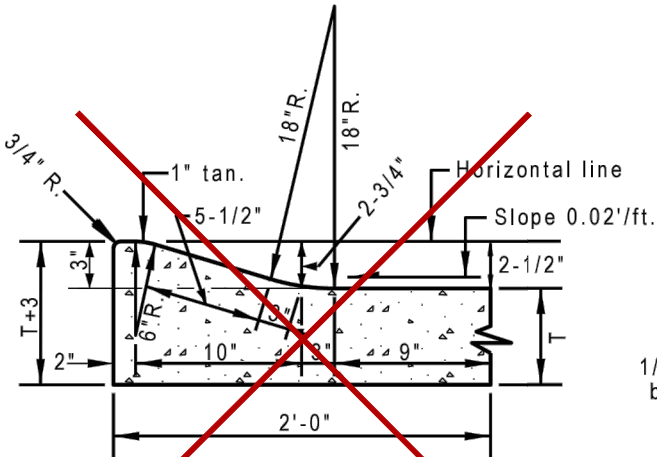
PAVEMENT CONSTRUCTION DETAILS

CURBS

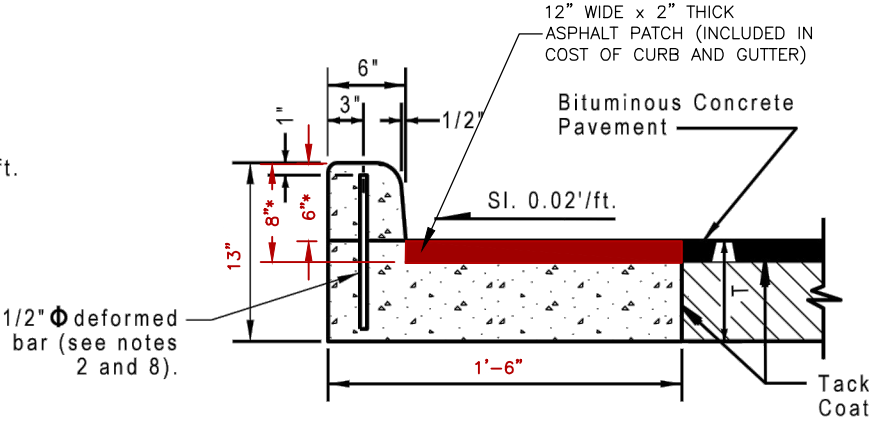
REVISION DATE: October 1, 2012

DRAWING
C502.14

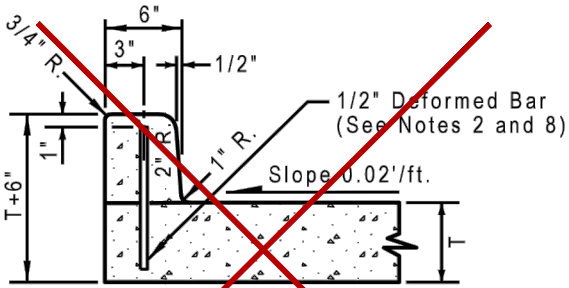
* IN MANY AREAS AN 8" CURB HEIGHT (6" EXPOSED) IS NOT FEASIBLE DUE TO DRAINAGE ISSUES. CONTRACTOR TO COORDINATE WITH COUNTY FIELD INSPECTOR WHERE AND POUR SHORTER CURB.



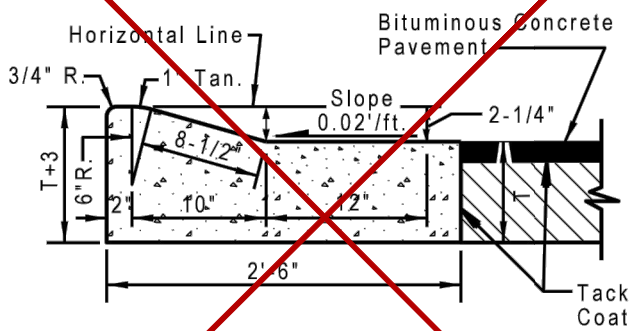
Integral Rolled Curb



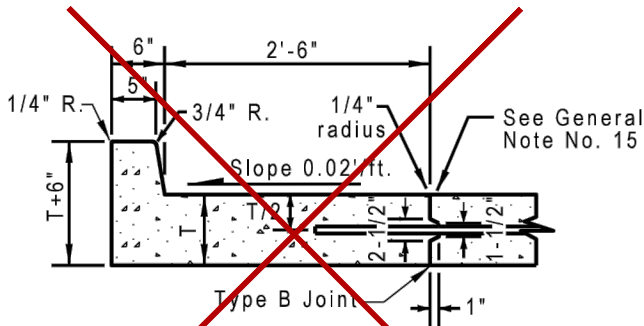
Vertical Curb and Gutter
(1'-6" wide)



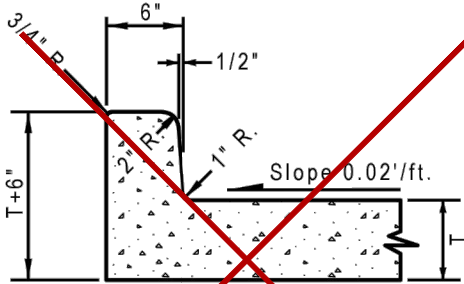
Type "A" Vertical Curb
(Integral)



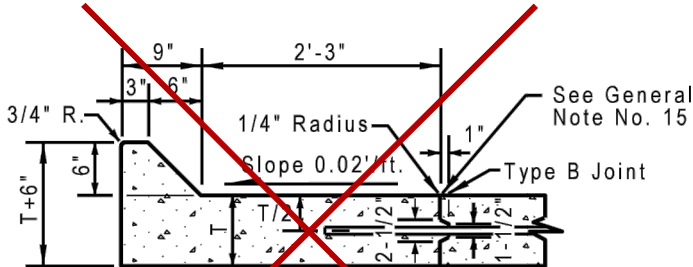
Rolled Curb and Gutter (2'-6" wide)
(See Note 13)



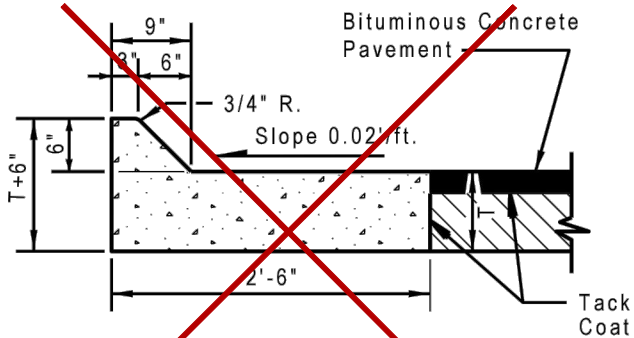
Vertical Curb and Gutter
(Integral to Pavement)
(3'-0" wide)



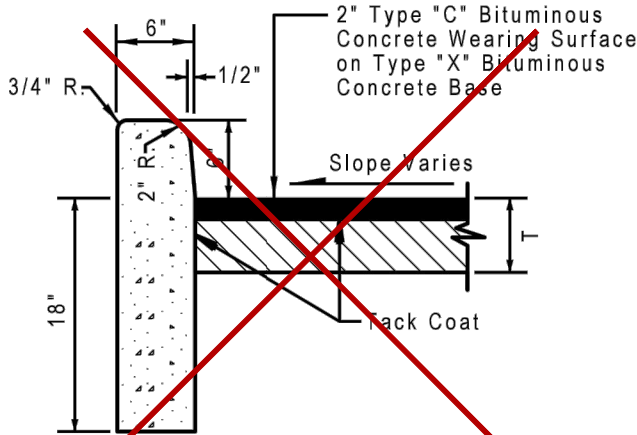
Type "A" Vertical Curb
(Monolithic)



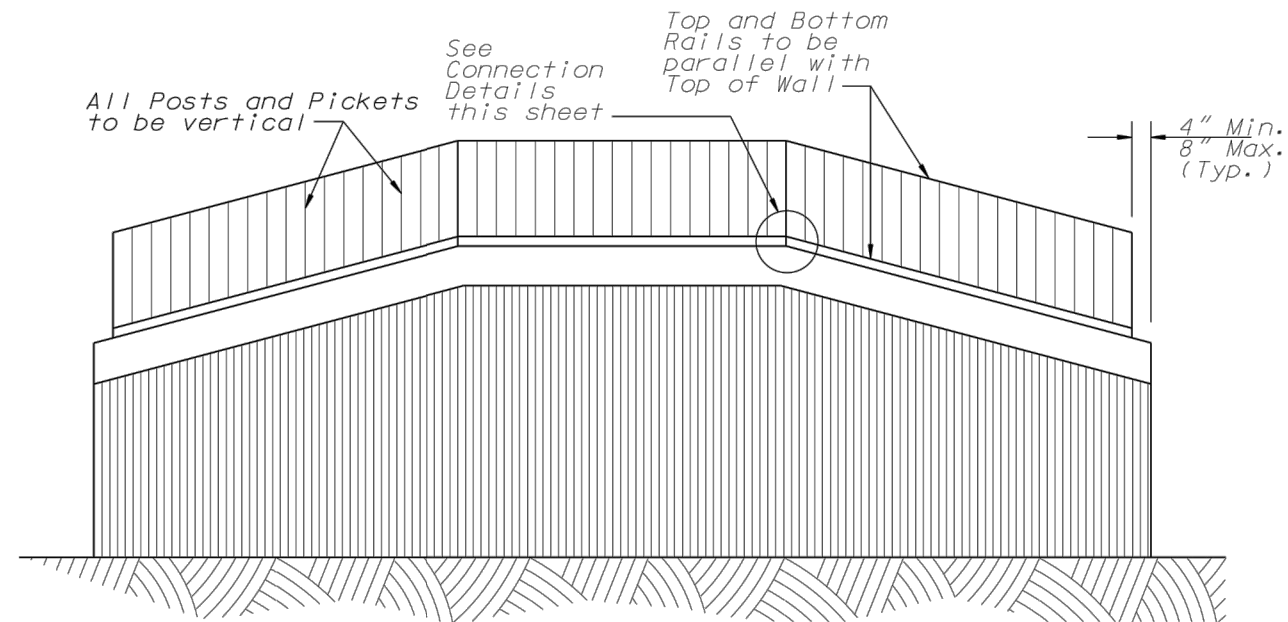
Mountable Curb and Gutter



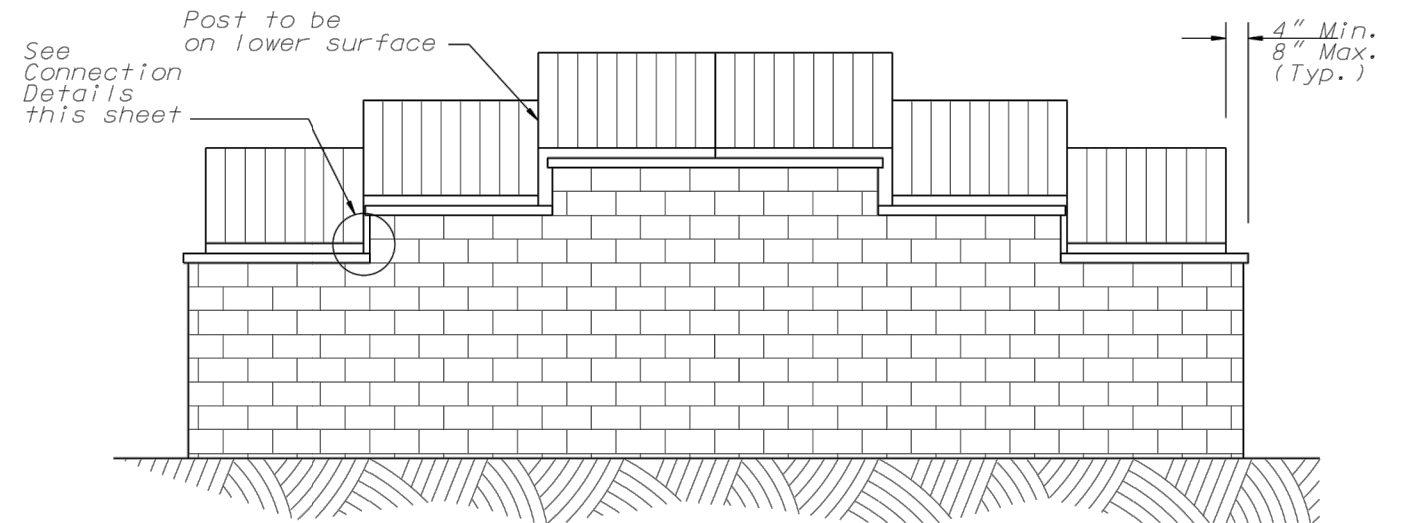
Mountable Curb and Gutter
(2'-6" wide)



Type "S" Concrete Curb

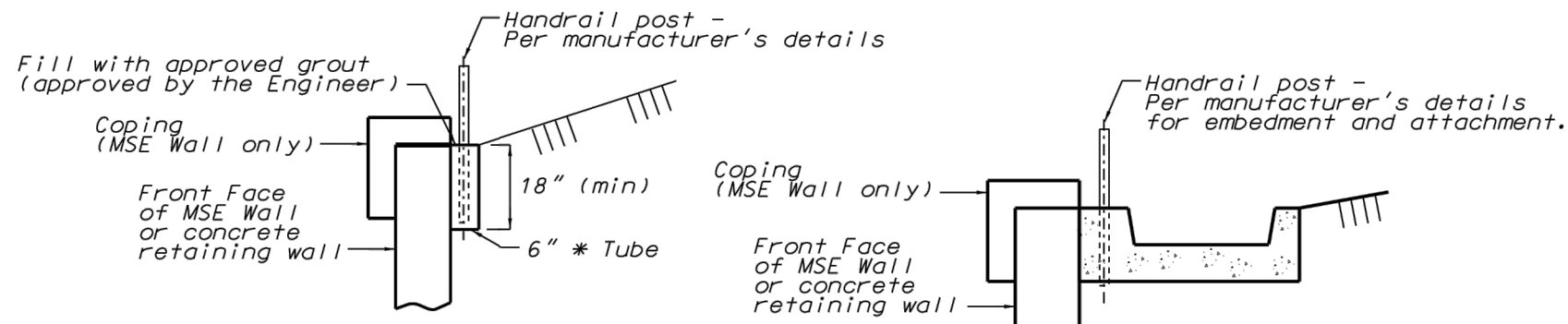


ELEVATION OF ALUMINUM HANDRAIL
ON CAST-IN-PLACE REINFORCED CONCRETE WALL



ELEVATION OF ALUMINUM HANDRAIL
ON MODULAR BLOCK WALL

GENERAL NOTES



**HANDRAIL POST CONNECTION
BEHIND WALL
(WITHOUT GUTTER)**

**HANDRAIL POST CONNECTION
BEHIND WALL
(WITH GUTTER)**

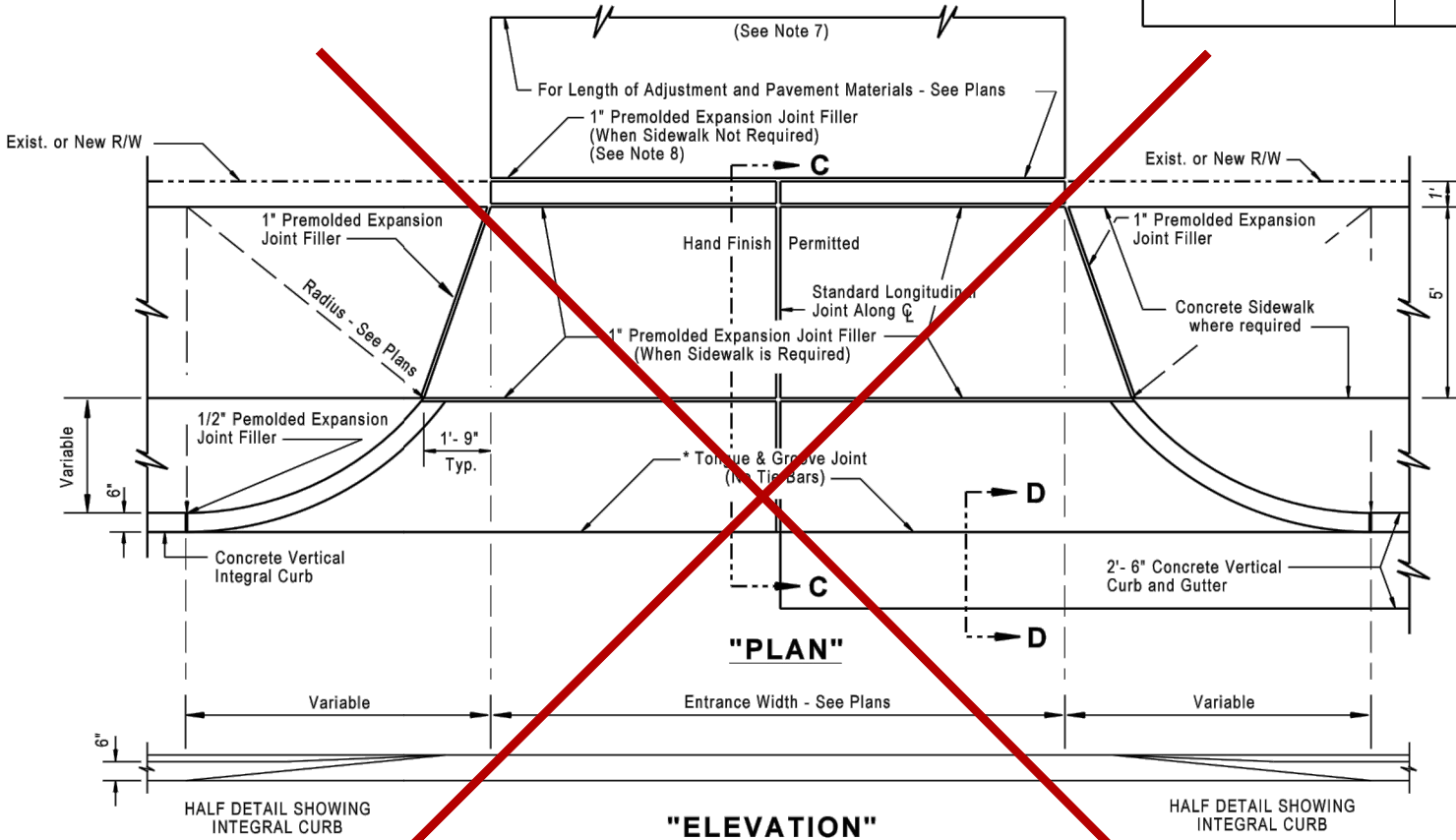
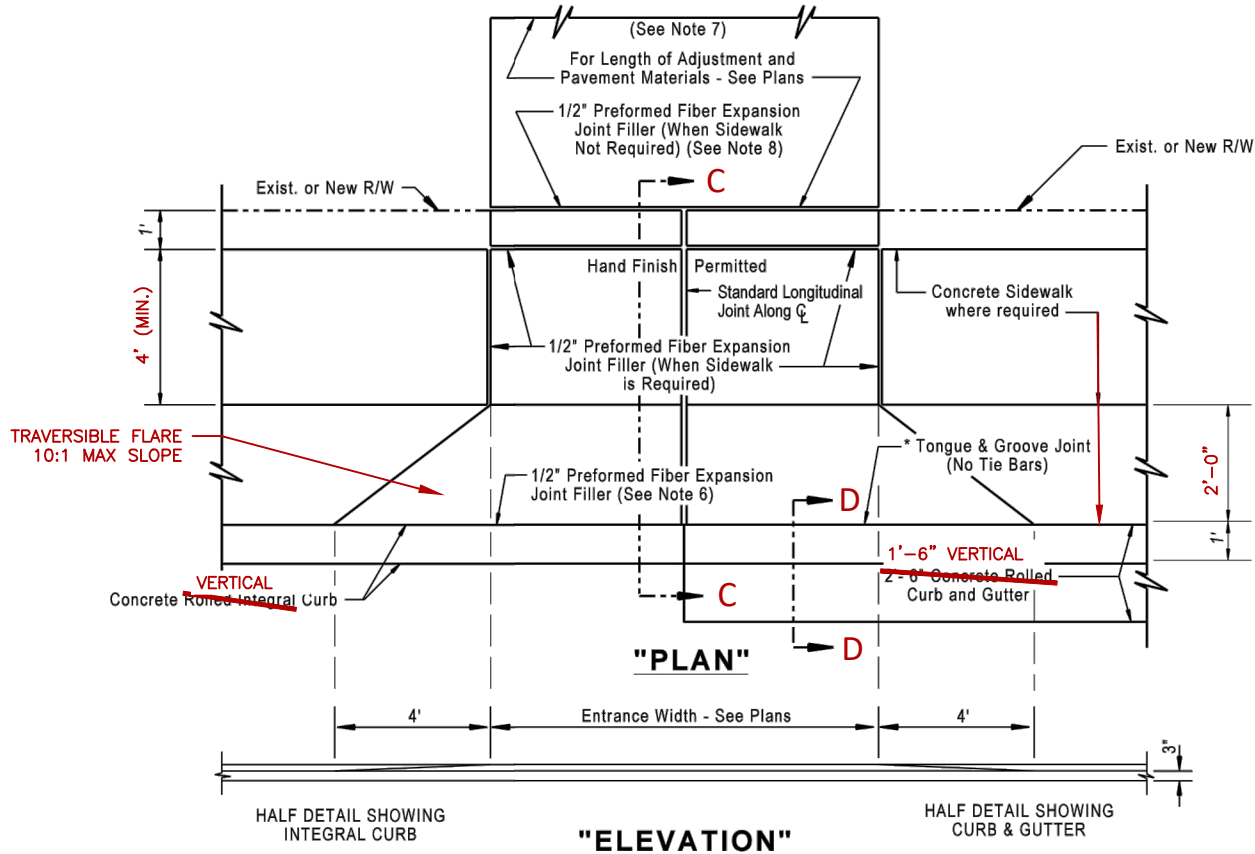
POST CONNECTION DETAILS

1. All rails, posts and pickets shall be formed from 6063-T5 extruded aluminum alloys. All railing accessories shall be cast from ANSI 713 alloy. All exposed fasteners used in the system shall be aluminum or stainless steel.
2. The railing system shall consist of 2-1/2" square posts that are grouted in the 4" diameter PVC sleeves as shown. The top rail shall be 2-1/2" wide and the bottom rail a minimum of 1-5/8" wide. Pickets shall be 3/4" square, on 4-1/2" centers and shall run between the top and bottom rail. The top rail shall be continuous for all sections less than 24' in length.
3. Payment for furnishing the Aluminum Handrail for Retaining Walls shall be completely covered under the contract unit price bid for "Aluminum Hand-rail," per Lin. Ft..
4. The following system is approved for use:
Superior Series 900 Heavy-Duty Aluminum Railings, by Superior Aluminum Products, Inc., Russia, Ohio 45363.
5. Other systems will be considered for use, provided that they are constructed from aluminum, can be finished as required and can meet the installation requirements.

ISSUE DATE	03/09/2020	REVISIONS		THIS IS NOT A CERTIFIED DOCUMENT	Saint Louis COUNTY TRANSPORTATION <small>1050 NORTH LINDBERGH BLVD. ST. LOUIS, MISSOURI 63132</small>	STANDARD DRAWING ALUMINUM HANDRAIL FOR RETAINING WALLS		EFFECTIVE 05/01/2020	SHEET 1 OF 1	DRAWING C607.13

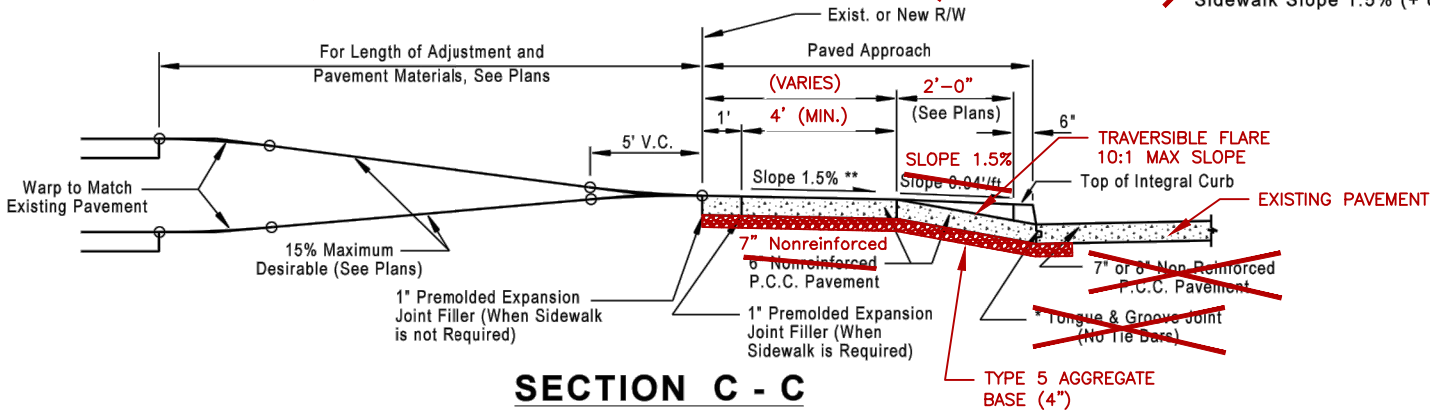
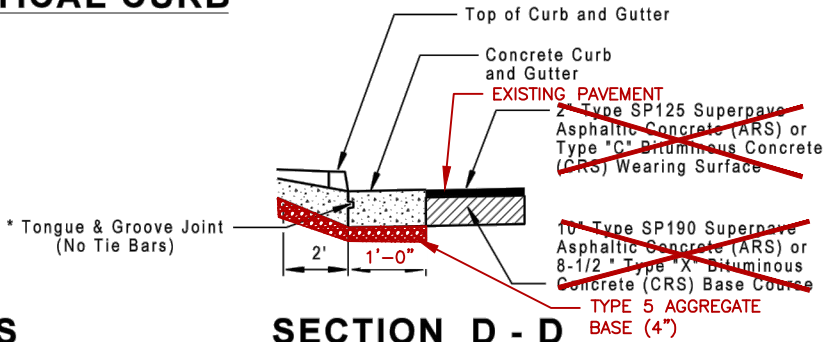
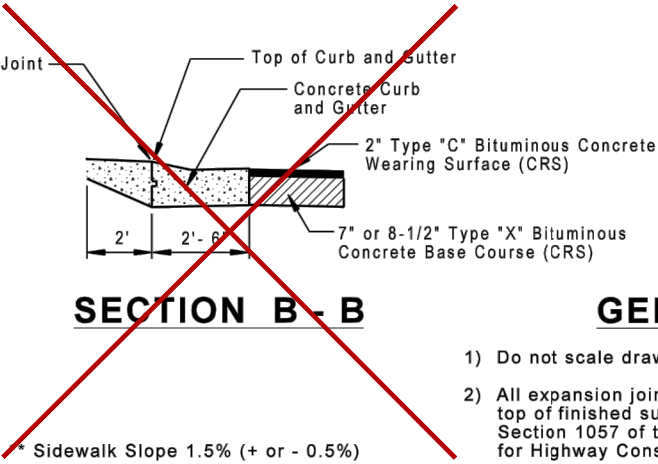
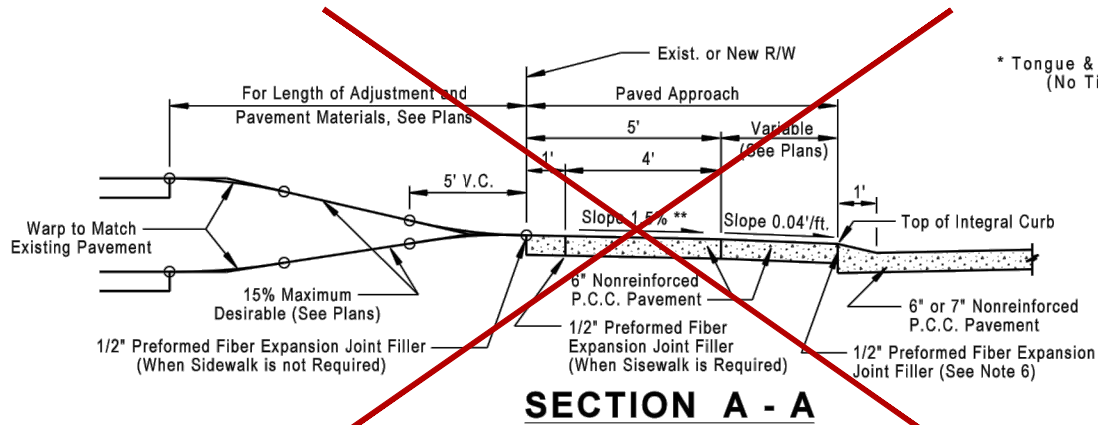
NEW	REVISIONS				
2-1972	11-2-98	7-31-07	6-19-08	1-1-10	

ST. LOUIS COUNTY PROJ.		
SHEET NUMBER	TOTAL SHEETS	



**MODIFIED COMMERCIAL ENTRANCE
WITH VERTICAL CURB**

**RESIDENTIAL ENTRANCE
WITH VERTICAL CURB**



- GENERAL NOTES**
- 1) Do not scale drawing, follow dimensions.
 - 2) All expansion joints shall extend from the subgrade to 1/2" below top of finished surface of concrete. Joint sealant to conform to Section 1057 of the "St. Louis County Standard Specifications for Highway Construction".
 - 3) Curb and joint dimensions shown in "Pavement Construction Details - Joints and Curbs", Standard Drawing C502.03.
 - 4) The thickness of the first section of sidewalk on each side of the entrance shall be increased to match the driveway approach pavement thickness (6 inches).
 - 5) Joint material shall comply with Standard Specification 1057.6, Premolded Fiber Expansion Joint Material (AASHTO M 213).
 - 6) For construction details for driveways opposite "T" intersections or on outside of a curve, refer to "Entrance Construction Details - Guidelines for Joint Filler Installation", Std. Dwg. C608.10.
 - 7) 1/2" Premolded Fiber Expansion Joint Material is required between the garage and the driveway.
 - 8) For locations other than in the public road right-of-way, it is recommended that the 1/2" Premolded Fiber Expansion Joint Filler be placed at the first joint location from the street edge.

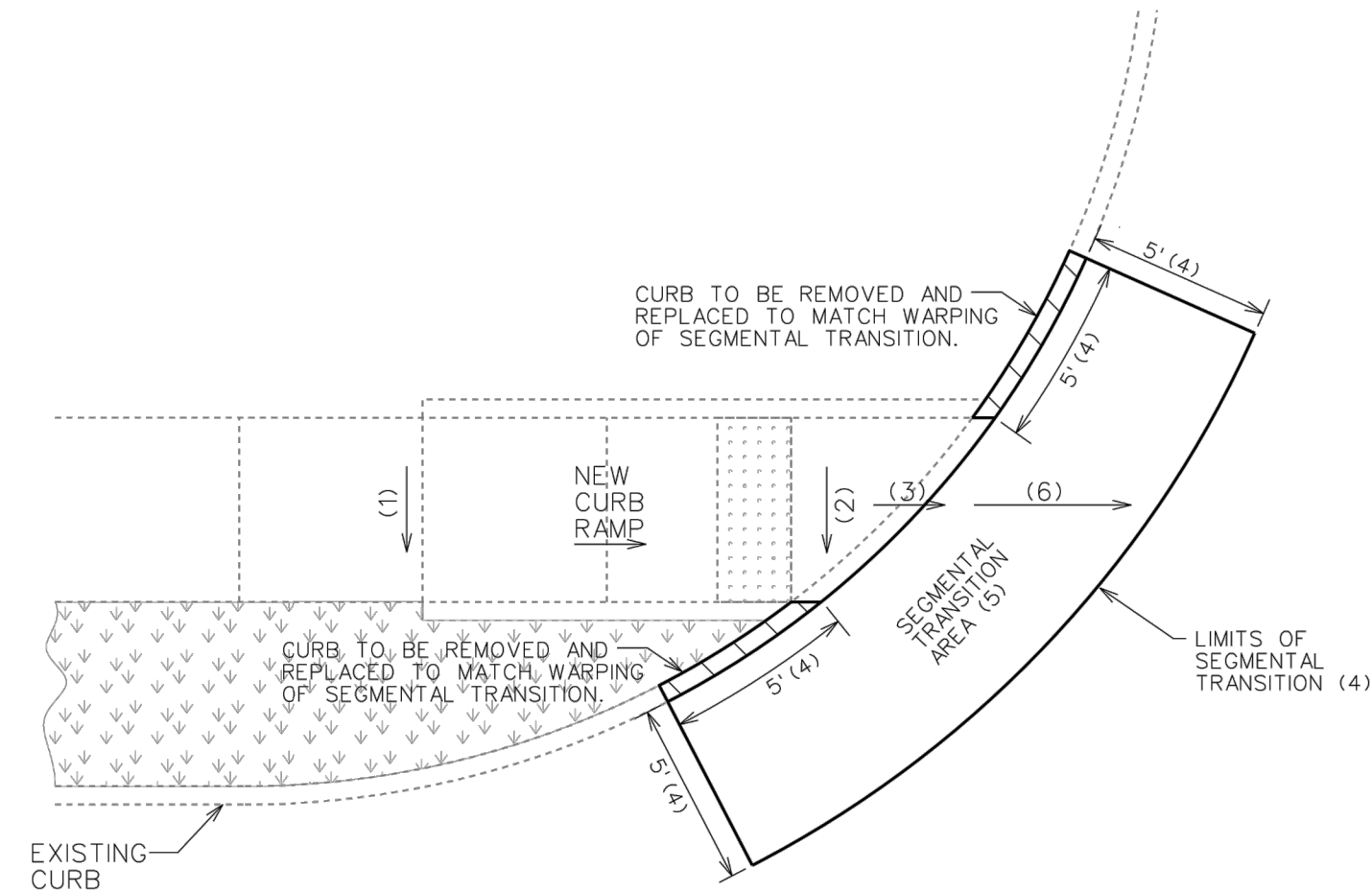
SAINT LOUIS COUNTY
DEPARTMENT OF HIGHWAYS AND TRAFFIC
CLAYTON, MISSOURI

ENTRANCE CONSTRUCTION DETAILS
COMMERCIAL
CONCRETE ENTRANCES

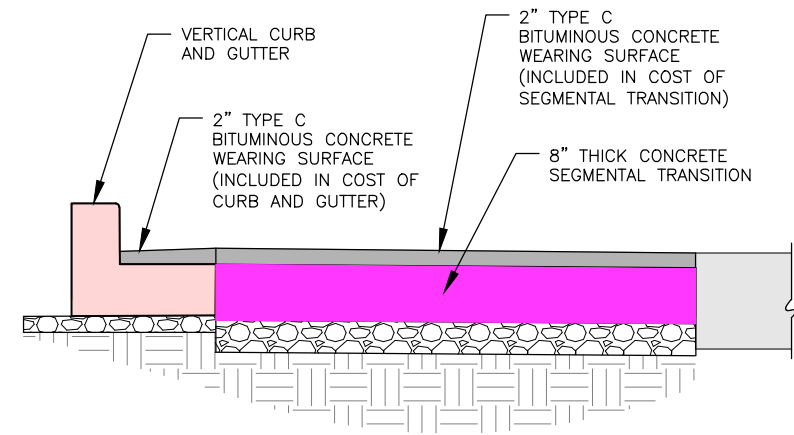
REVISION DATE: January 1, 2010

DRAWING
C608.00

SEGMENTAL TRANSITION DETAIL
(CONNECT A NEW CURB RAMP TO EXISTING FACILITIES)



- (1) CROSS SLOPE SHALL BE A MIN OF 1.0% AND A MAX OF 2.0%.
- (2) ALL NEW CURB RAMPS SHALL MAINTAIN A CROSS SLOPE OF 1% MIN. AND 2% MAX. TO THE FRONT OF CURB AT INTERSECTIONS WITH STOP OR YIELD CONTROL. CROSS SLOPE TO THE FRONT OF CURB SHALL BE A MAX OF 5.0% AT INTERSECTIONS WITHOUT STOP OR YIELD CONTROL.
- (3) ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT OR GUTTER SLOPE IN THE DIRECTION OF PEDESTRIAN TRAVEL AND CURB RAMP SLOPE SHALL NOT EXCEED 13.0%. PROVIDE A 24" LEVEL LANDING IF ALGEBRAIC DIFFERENCE EXCEEDS 13.0%.
- (4) THE SEGMENTAL TRANSITION SHALL INCLUDE AN AREA EQUAL TO THE SIZE OF THE OPENING PLUS 5.0' IN ANY DIRECTION TO ALLOW FOR CONNECTION TO THE EXISTING ADJACENT FACILITIES.
- (5) A SEGMENTAL TRANSITION SHALL BE A WARPED AREA OF PAVEMENT FOR THE CONNECTION OF A NEW ADA COMPLIANT CURB RAMP TO AN ADJACENT EXISTING FACILITY. THE SEGMENTAL TRANSITION SHALL NOT INHIBIT DRAINAGE OR CAUSE AN UNSAFE DRIVING HAZARD. LIMITS OF THE SEGMENTAL TRANSITION MAY BE ADJUSTED AT THE ENGINEER'S DISCRETION.
- (6) RUNNING SLOPE OF THE SEGMENTAL TRANSITION SHALL NOT EXCEED 5.0% IN THE DIRECTION OF PEDESTRIAN TRAVEL.



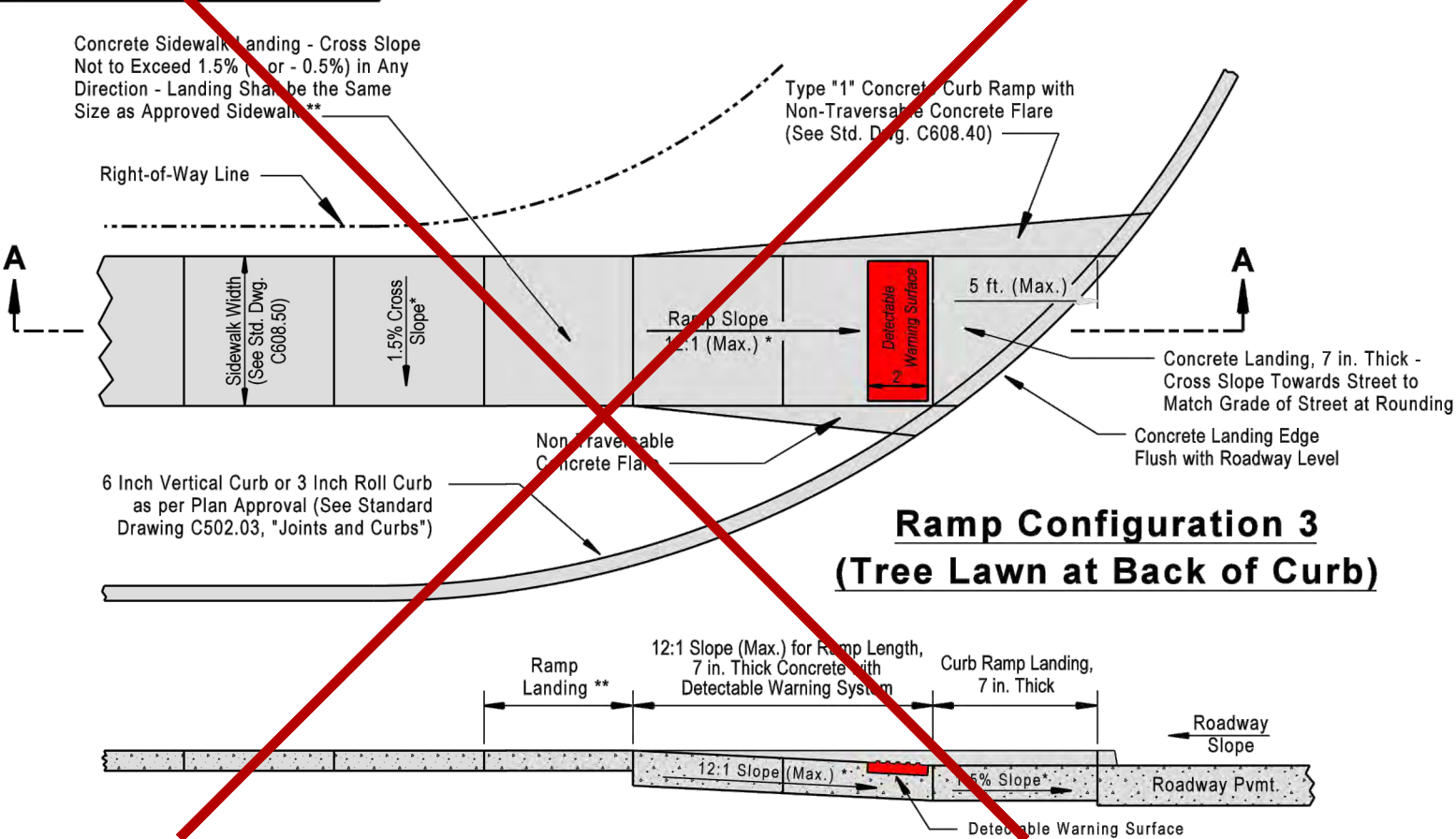
SEGMENTAL TRANSITION
NO SCALE

NOTE:
CONCRETE SHALL BE 4,000 PSI
AFTER 28 DAYS CURING TIME.

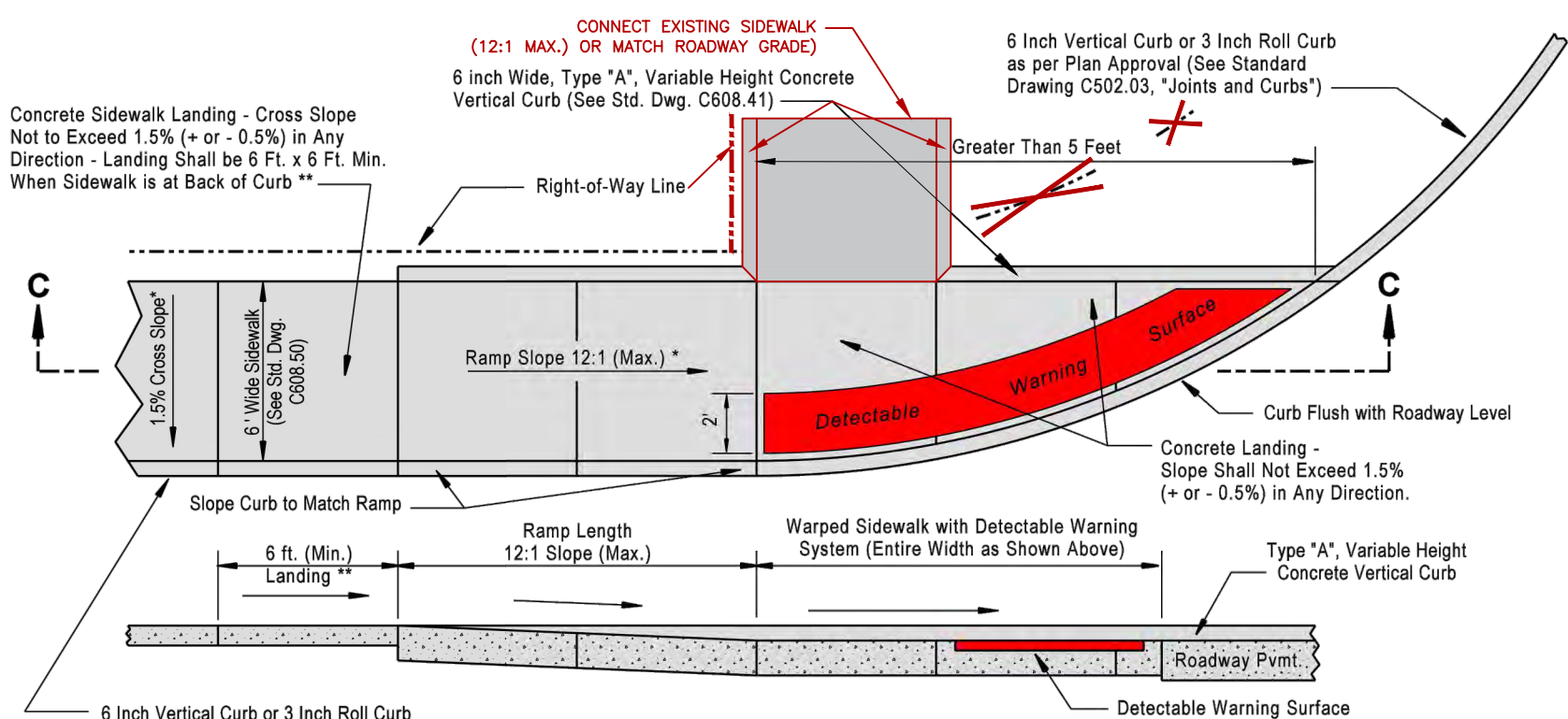
ISSUE DATE 03/09/2020	THIS IS NOT A CERTIFIED DOCUMENT	Saint Louis COUNTY TRANSPORTATION <small>1050 NORTH LINDBERGH BLVD. ST. LOUIS, MISSOURI 63132</small>	STANDARD DETAIL	
REVISIONS			SEGMENTAL TRANSITION DETAIL	
			EFFECTIVE 05/01/2020	SHEET 1 OF 1
				DRAWING C608.42

NEW	REVISIONS
3-1-10	

ST. LOUIS COUNTY PROJ.	
SHEET NUMBER	TOTAL SHEETS

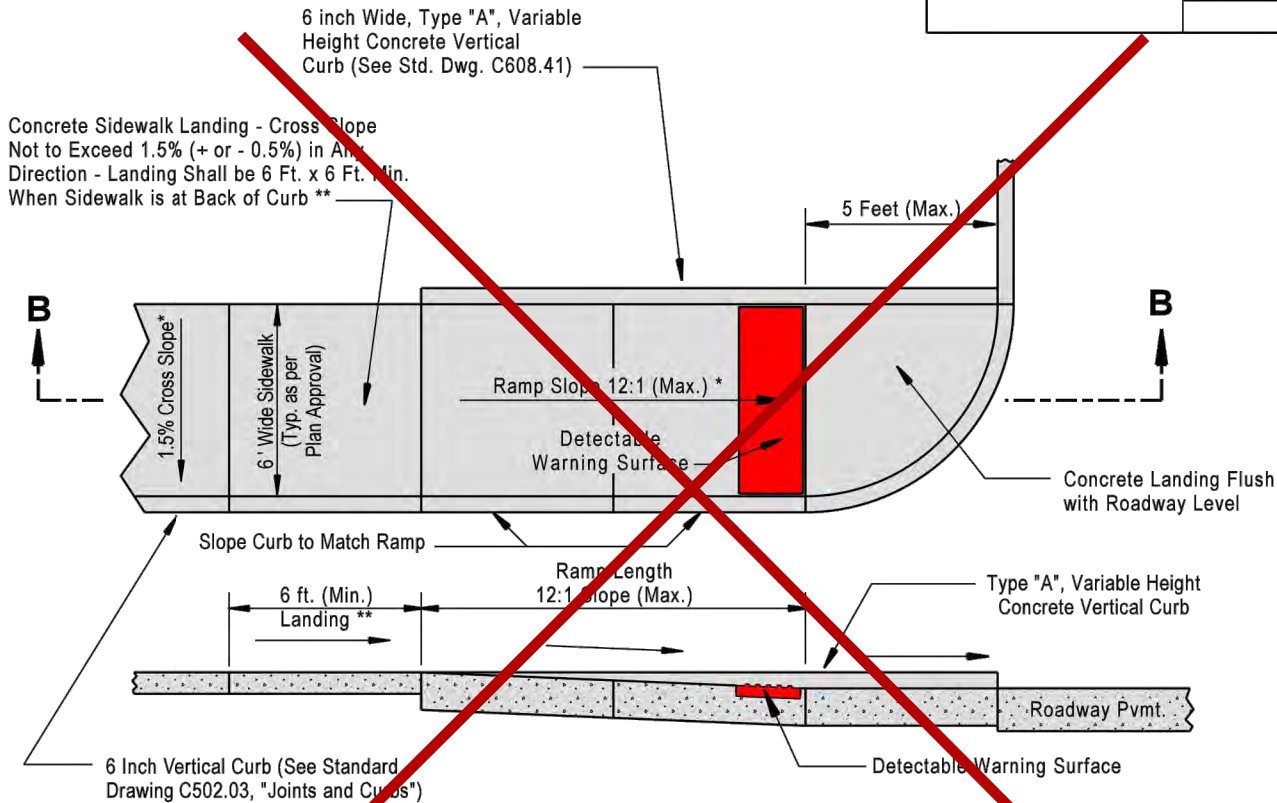


Section "A-A"



Section "C-C"

**MODIFIED RAMP CONFIGURATION 5
(SIDEWALK AT BACK OF CURB)**



Section "B-B"

**Ramp Configuration 4
(Sidewalk at Back of Curb)**

- * Note: Required standard sidewalk cross slope is 1.5%, with a variance of + or - 0.5%. Sidewalk running slope shall follow and not be greater than the grade of the roadway pavement parallel to the sidewalk. Ramp slope shall be no greater than 12:1 (8.3%).
- ** Note: Slope of landings shall not exceed 1.5% (+ or - 0.5%) in any direction and shall be the same size as the other sidewalk.

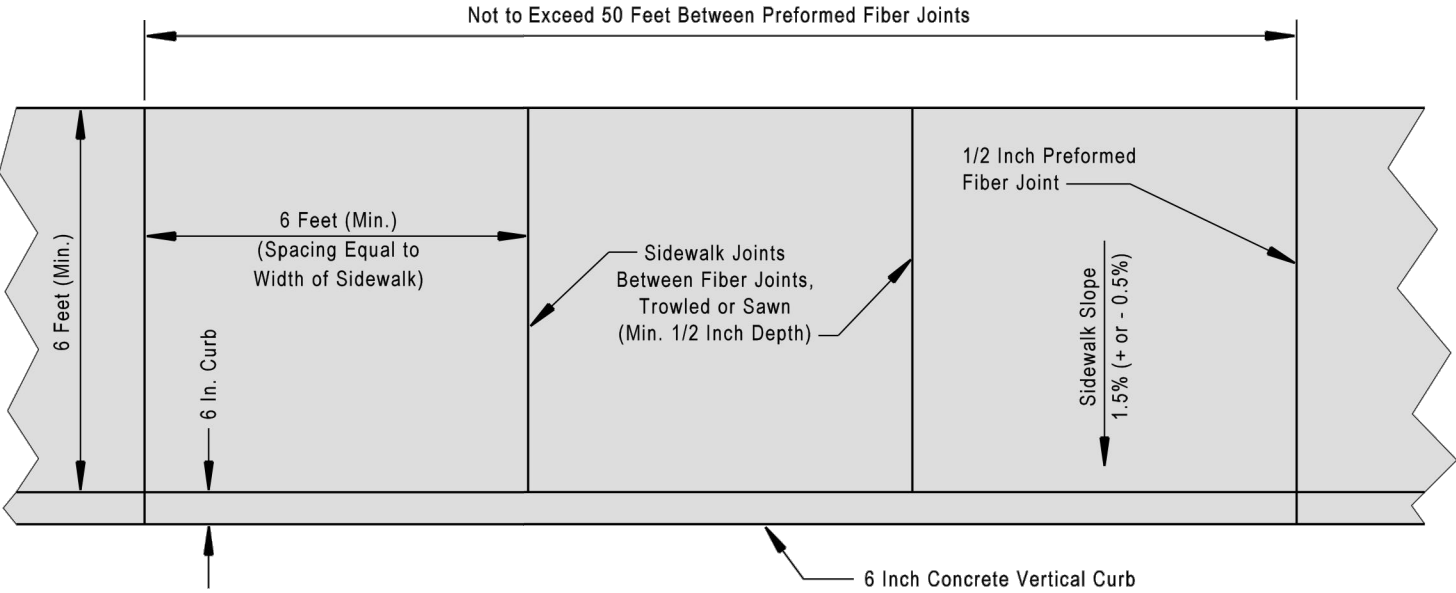
General Notes

- Do not scale drawing, follow dimensions.
- See Standard Drawing C608.40, "Concrete Sidewalk and Curb Ramp Details (Types 1 & 2)" for the remainder of the "General Notes" for this drawing as well as ramp construction details.
- For Ramp Configurations 4 & 5, see "Curb Ramp Length Tables" on Standard Drawing C608.41.

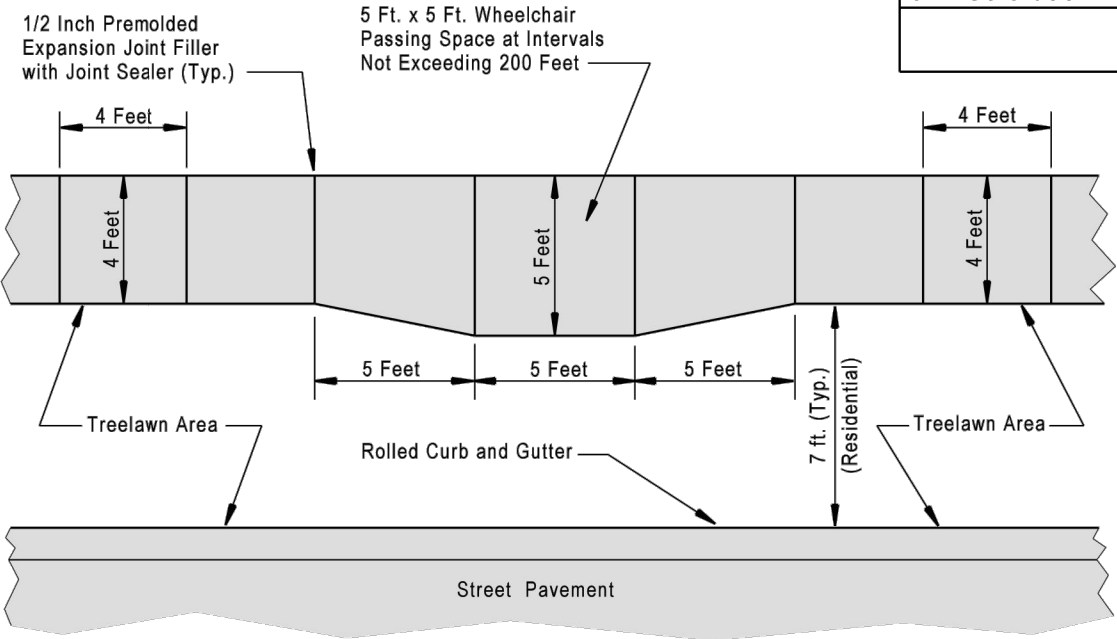
SAINT LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC CLAYTON, MISSOURI
SIDEWALK & CURB RAMP DETAILS SINGLE CURB RAMPS (CONFIGURATIONS 3, 4 & 5)
REVISION DATE: March 1, 2010
DRAWING C608.44

NEW	REVISIONS			
3-1-10				

ST. LOUIS COUNTY PROJ.		
	SHEET NUMBER	TOTAL SHEETS



Concrete Sidewalk at Back of Vertical Curb



**Wheelchair Passing Space
(4 Foot Wide Residential Sidewalk)**

Note: The intersection of two sidewalks or the intersection of a sidewalk and a driveway may serve as a wheelchair passing space on sidewalks less than 5 feet wide (as determined by engineer).

General Notes

- 1) Do not scale drawing, follow dimensions.
- 2) For sidewalk placement, see the appropriate typical section standard drawing.
- 3) Final sidewalk width will be determined by the engineer during the plan review process. Site conditions may require a wider sidewalk width than the minimums shown on this drawing.
- 4) See Standard Drawing C608.40, "Concrete Curb Ramp Details (Types 1 & 2)", for additional sidewalk construction requirements. The requirements are shown in the "General Notes" section of standard drawing C608.40.

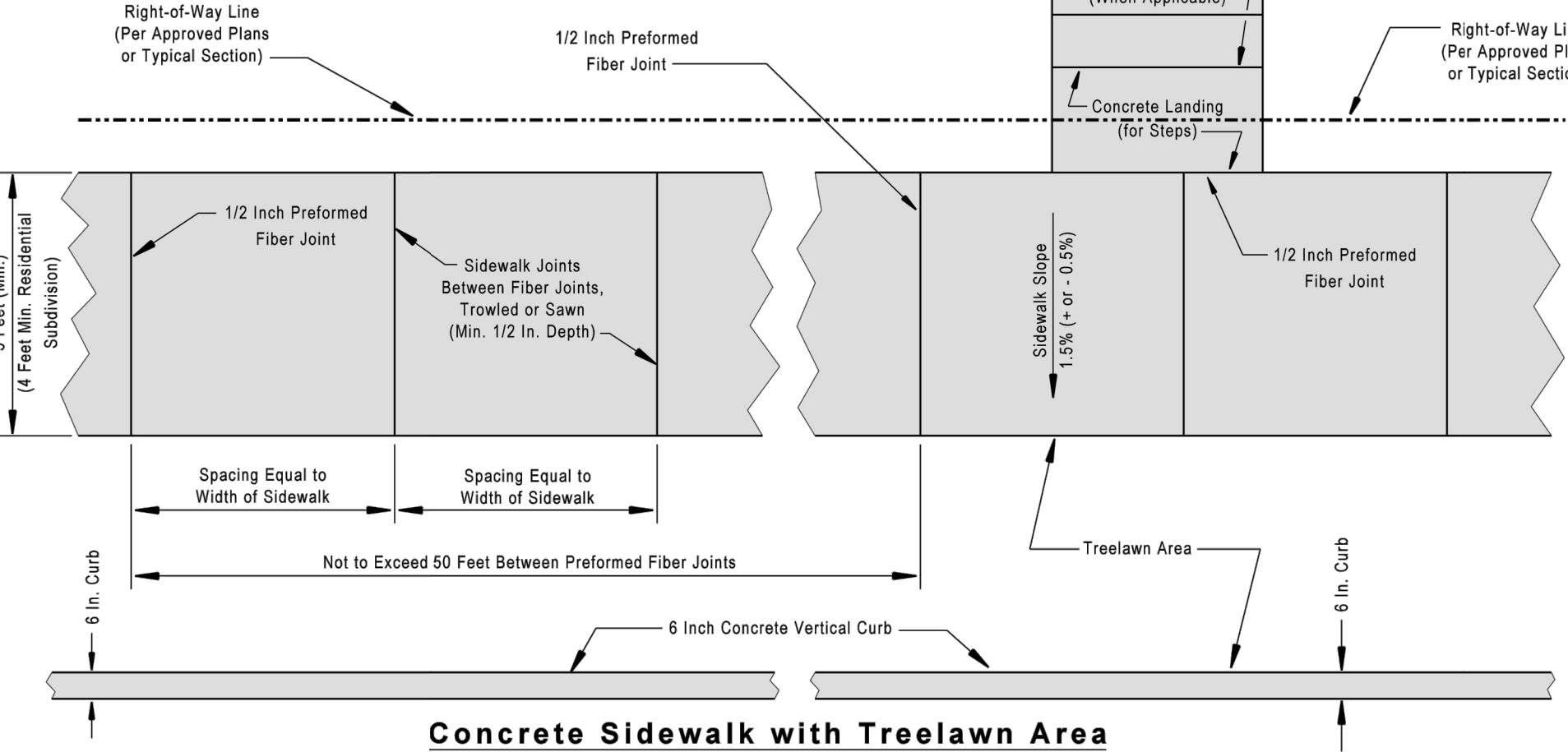
**Minimum Sidewalk
Size Requirements**

With Treelawn Area

Residential Streets	4 ft. x 4 ft.
Collector Road	5 ft. x 5 ft.
Arterial Road	5 ft. x 5 ft.

At Back of Vertical Curb

Collector Road	6 ft. x 6 ft.
Arterial Road	6 ft. x 6 ft.



Concrete Sidewalk with Treelawn Area

SAINT LOUIS COUNTY
DEPARTMENT OF HIGHWAYS AND TRAFFIC
CLAYTON, MISSOURI

**SIDEWALK & CURB RAMP DETAILS
CONCRETE SIDEWALK
DETAILS**

REVISION DATE: March 1, 2010

DRAWING
C608.50

NEW	REVISIONS				
7-24-03	7-31-07	10-22-08	3-1-10	7-6-11	

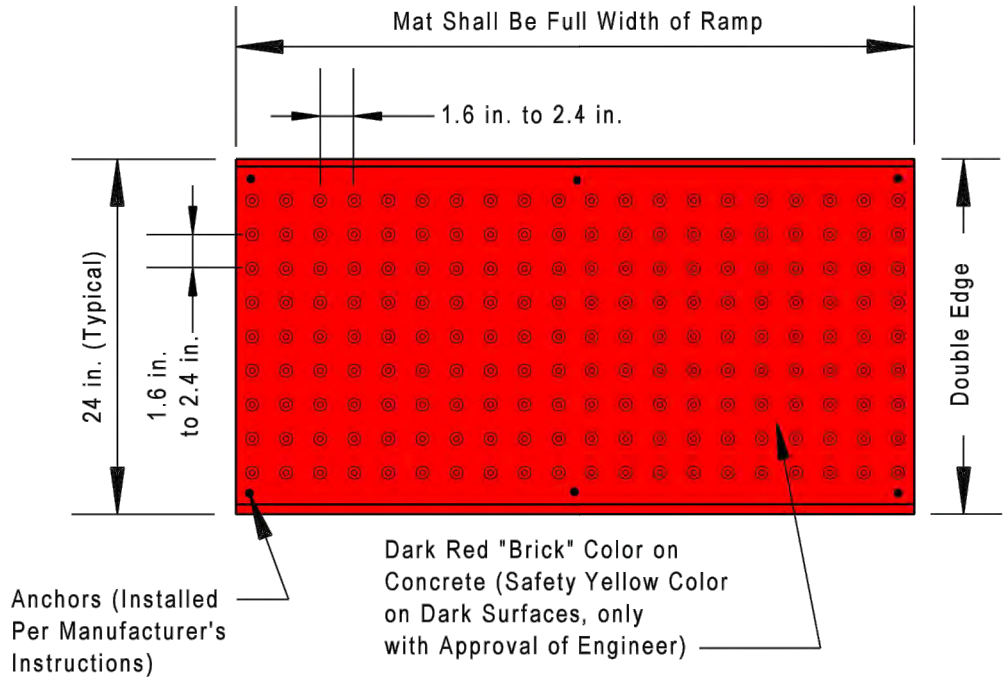
ST. LOUIS COUNTY PROJ.		
	SHEET NUMBER	TOTAL SHEETS

General Notes

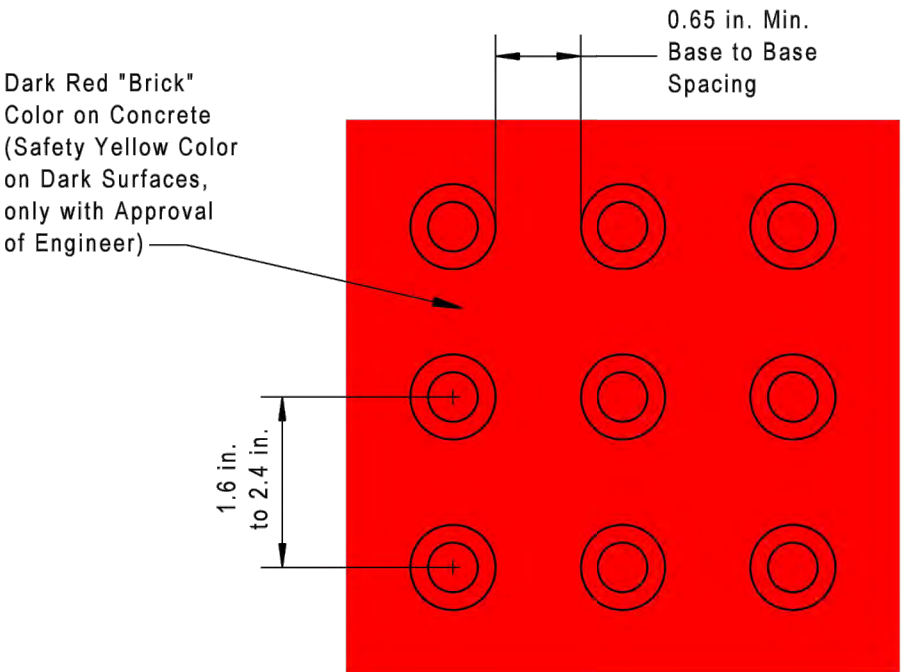
- 1) Do not scale drawings, follow dimensions.
- 2) The surface shall be compliant with the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)", Detectable Warnings (Paragraph 4.29), and Curb Ramps (Paragraph 4.7), and Ramps (Paragraph 4.8). Non-compliance shall be removed and corrected at contractor's expense.
- 3) The contractor and/or manufacturer must provide a performance warranty on the product and installation of the Detectable Warning Surface (DWS) for a minimum period of 1-year from the date of project acceptance or installation (whichever date is later). The performance warranty shall guarantee that the DWS is free from defects in workmanship and material including deformation, breakage, excessive wearing or breakage of truncated domes, color fastness, delamination, or attachment to pavement surface.
- 4) The Detectable Warning Surface (DWS) type shall be "Cast-in-Place with Screw Anchoring" (both new and retrofit applications) or "Surface Applied with Adhesive" (retrofit only), with the approved manufacturers listed on the "MoDOT Qualified Lists, Qualified Truncated Domes, FS-1067 Table 1" (also see MoDOT Std. Dwg. C608.10N). The MoDOT "Qualified Lists" are located on the Internet at: www.modot.org/business/materials/pdf/main/tables.pdf
- 5) Refer to St. Louis County Standard Drawings C608.40 through C608.50 for sidewalk and curb ramp details and typical configurations. Truncated dome mats, tiles or panels are required on all raised concrete channelization islands with curb ramps (see Standard Drawing C608.49).
- 6) SAFETY MEASURES - Using barricades, cones or other safety devices, block off work area to pedestrian and vehicle traffic during installation process. Have work crew be prepared to offer alternate accessible pathway to disabled pedestrians during the time work is being performed and adhesive is curing.
- 7) Contractors or manufacturers shall at the request of this Department, provide product literature, installation procedures, maintenance instructions, detectable warning (truncated dome) samples (minimum 12 in. x 12 in.), and if necessary current test reports in accordance with ASTM guidelines, and possible test installation by the contractor or manufacturer.

8) MATERIALS

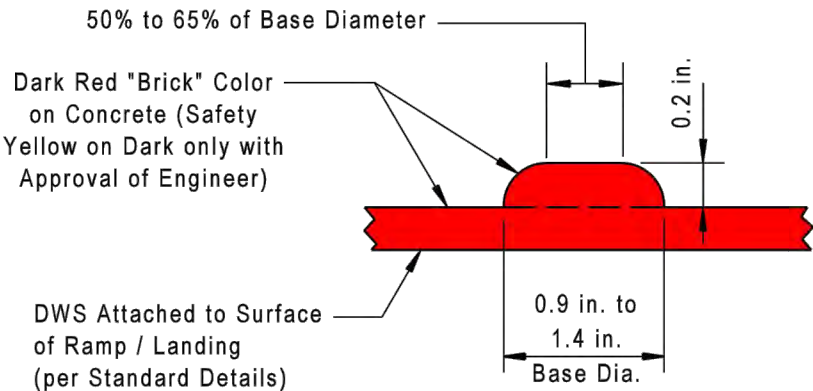
- Cast-in-place composite tiles or mats shall be made of polyester/vinyl ester reinforced compression molded material or similar approved material, throughout the thickness of the detectable warning surface. Colors shall be dark red "Brick" color (on concrete surface) and Safety Yellow (on dark surfaces with the approval of the engineer). DWS shall meet the Federal standard colors for tactile panels. UV stabilization protection (fade resistance) shall be homogeneous throughout the composite material and not rely on any type of painted or coated surface to achieve color or UV code compliance. Mats or tiles shall have a minimum of six (6) corrosion resistant anchors with color coordinated corrosion resistant fasteners.
- 9) Detectable Warning Surface (DWS) shall consist of a surface of truncated domes aligned in a square or radial grid pattern. The pattern shall be aligned with the edge of pavement in the direction of travel. The DWS shall extend 24 inches in the direction of travel and span the full width of the curb ramp (exclusive of flares), landing or blended transition. The DWS shall contrast visually with the ramp or landing surface (dark-on-light surface, or light-on-dark surface), with a slip resistant surface or pattern (comply with ADA and ADAAG guidelines). Truncated domes shall be aligned parallel to the running slope of a ramp, in a square grid, when installed in the direction of pedestrian travel, to permit wheels to roll between the domes. DWS shall be installed 6 in. to 8 in. from the face of curb, the full width of the ramp (max. of 2 in. from each side of the ramp or landing - see Detail "A" on Std. Dwg. C608.40). DWS in a cut-through island, shall be installed full width, aligned with the face of the cut-through island curb (see Std. Dwg. C608.49).
 - 10) The DWS, truncated dome mats, tiles or panels used, shall be consistent throughout the project and are required to be installed on all curb ramps at public and private street intersections; signalized entrances; and at all channelized and raised islands where a curb ramp or cut-through is provided. DWS shall be omitted on curb ramps adjacent to private entrances. The DWS type and location shall be approved by the Engineer prior to installation. No direct payment will be made for detectable warning surfaces.
 - 11) Truncated dome mats, tiles or panels shall be a cast-in-place product (new construction) or surface applied (retrofit applications), and approved by the project engineer prior to usage. Tiles or mats shall be pre-formed or pre-cast and installed per manufacturer's recommendations and instructions. Stamped concrete truncated domes or grooves will not be accepted.



Detectable Warning Surface (DWS)
(Mat, Tile or Panel)



Square Pattern, Parallel Alignment



Truncated Dome Detail

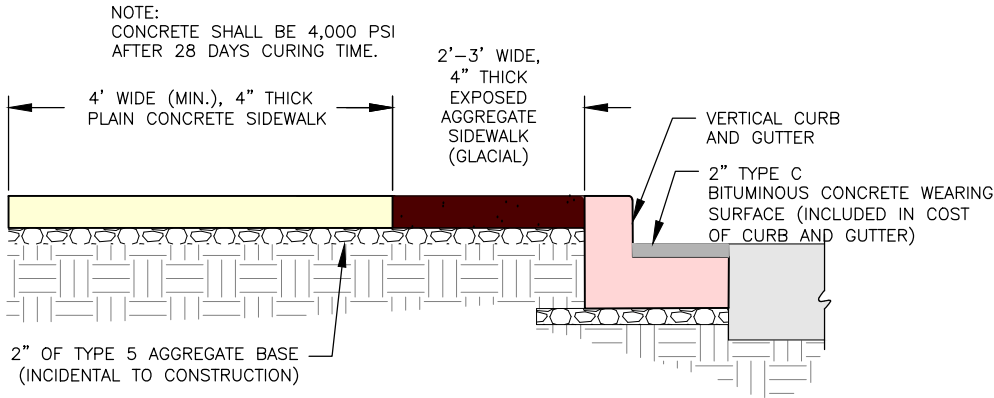
SAINT LOUIS COUNTY
DEPARTMENT OF HIGHWAYS AND TRAFFIC
CLAYTON, MISSOURI

SIDEWALK & CURB RAMP DETAILS
**DETECTABLE WARNING SURFACE
FOR NEW CONSTRUCTION AND
RETROFITTING OF CURB RAMPs**

REVISION DATE: July 6, 2011

DRAWING
C608.51

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\PAVEMENT DETAILS.dwg Tab: DE-1 Plotted on: Sep 24, 2020 - 9:31am Plotted by: MSpalding



SIDEWALK WITH EXPOSED AGGREGATE STRIP
NO SCALE

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

DETAILS

DWG. NO:	SC17-674
PROJ. NO:	SC17-674
SCALE:	AS SHOWN
DATE:	SEPT. 2020
DWN. BY:	K.J.W.
APPD. BY:	M.D.S.
DATE:	
REVISION:	

BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

STATE OF MISSOURI
KEVIN J. WOLFF, P.E.
NUMBER
PE-200400859
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC,
DBA COCHRAN

9/21/20

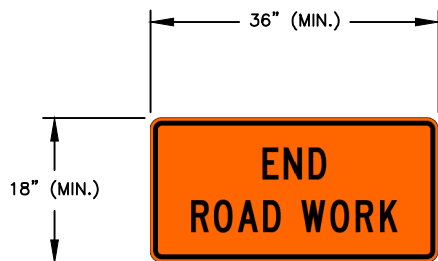
THIS SHEET HAS BEEN SIGNED,
SEALED AND DATED ELECTRONICALLY

737 RUDDER ROAD
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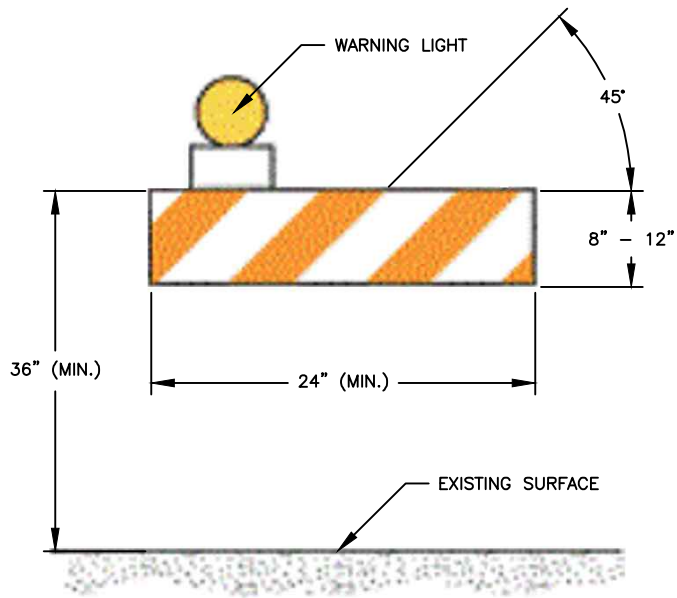
ENGINEERING CERTIFICATE OF AUTHORITY NUMBER - 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

COLORS:
LEGEND - BLACK
BACKGROUND - ORANGE (RETROREFLECTIVE)

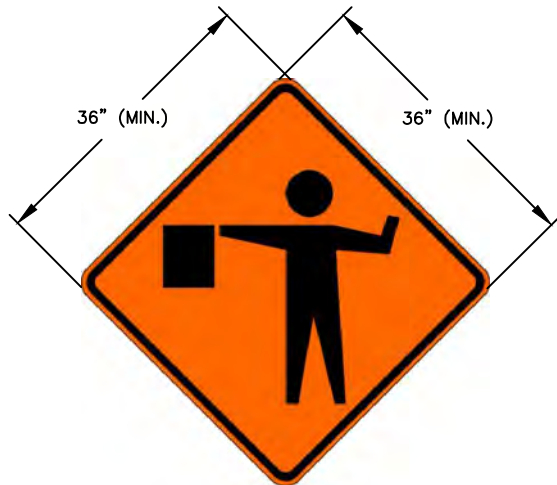
"END ROAD WORK" (G20-2) SIGN
NO SCALE



NOTE:

1. WARNING LIGHTS SHALL BE LIGHT WEIGHT (3.3 LBS. OR LESS) OR HAVE BATTERY PACK MOUNTED NO HIGHER THAN 18" AND SHALL NOT COVER ANY PORTION OF THE BARRICADED FACE.
2. RAIL STRIPE WIDTHS SHALL BE 6", EXCEPT THAT 4" WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36". THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
3. IF BARRICADES ARE USED TO CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP RAILS WITH NO GAPS BETWEEN INDIVIDUAL BARRICADES TO BE DETECTABLE TO USERS OF LONG CANES. THE BOTTOM OF THE BOTTOM RAIL SHALL BE NO HIGHER THAN 6" ABOVE THE GROUND SURFACE. THE TOP OF THE TOP RAIL SHALL BE NO LOWER THAN 36" ABOVE THE GROUND SURFACE.
4. THE PANELS SHALL BE SECURELY ATTACHED TO A SUPPORT THAT IS PORTABLE AND CAPABLE OF REMAINING UPRIGHT AND ENTIRELY FREE STANDING.

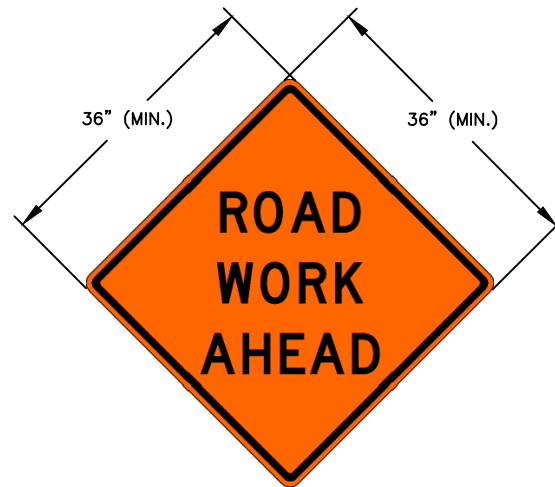
TYPE I BARRICADE
NO SCALE



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

COLORS:
LEGEND - BLACK
BACKGROUND - ORANGE (RETROREFLECTIVE)

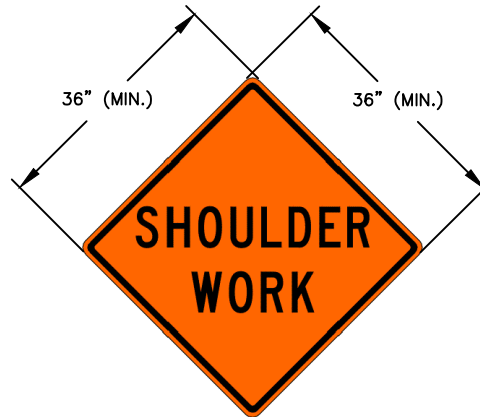
"FLAGGER SYMBOL" (W20-7a) SIGN
NO SCALE



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

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BACKGROUND - ORANGE (RETROREFLECTIVE)

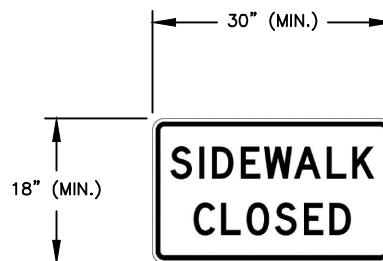
"ROAD WORK AHEAD" (W20-1) SIGN
NO SCALE



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

COLORS:
LEGEND - BLACK
BACKGROUND - ORANGE (RETROREFLECTIVE)

"SHOULDER WORK" (W21-5) SIGN
NO SCALE



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE (RETROREFLECTIVE)

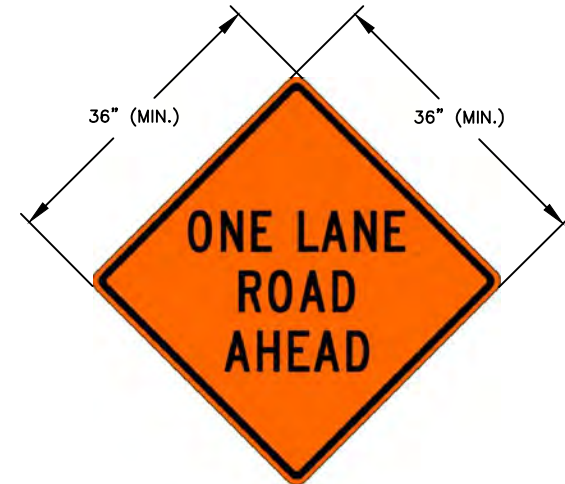
"SIDEWALK CLOSED" (R9-9) SIGN
NO SCALE



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

COLORS:
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BACKGROUND — ORANGE (RETROREFLECTIVE)

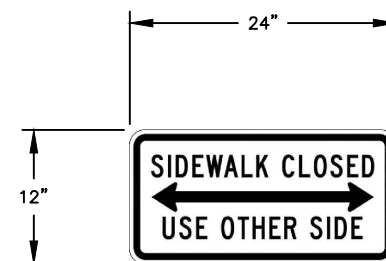
"NARROW LANES" (W5-5) SIGN
NO SCALE



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

COLORS:
LEGEND — BLACK
BACKGROUND — ORANGE (RETROREFLECTIVE)

"ONE LANE ROAD AHEAD" (W20-4)
SIGN
NO SCALE



NOTE:
LETTERING SHALL BE SERIES 2000 STANDARD ALPHABETS

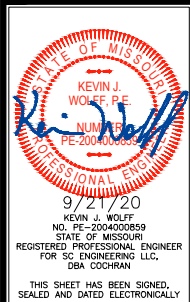
COLORS:
LEGEND - BLACK
BACKGROUND - WHITE (RETROREFLECTIVE)

"SIDEWALK CLOSED USE OTHER
SIDE" (R9-10) SIGN

NO SCALE

STL COUNTY HT
20MSD-00309
BASE MAP 22K2

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

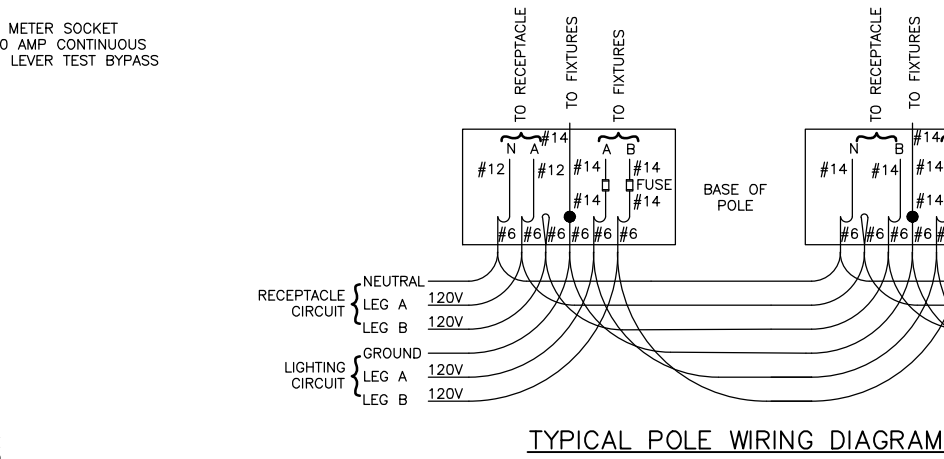
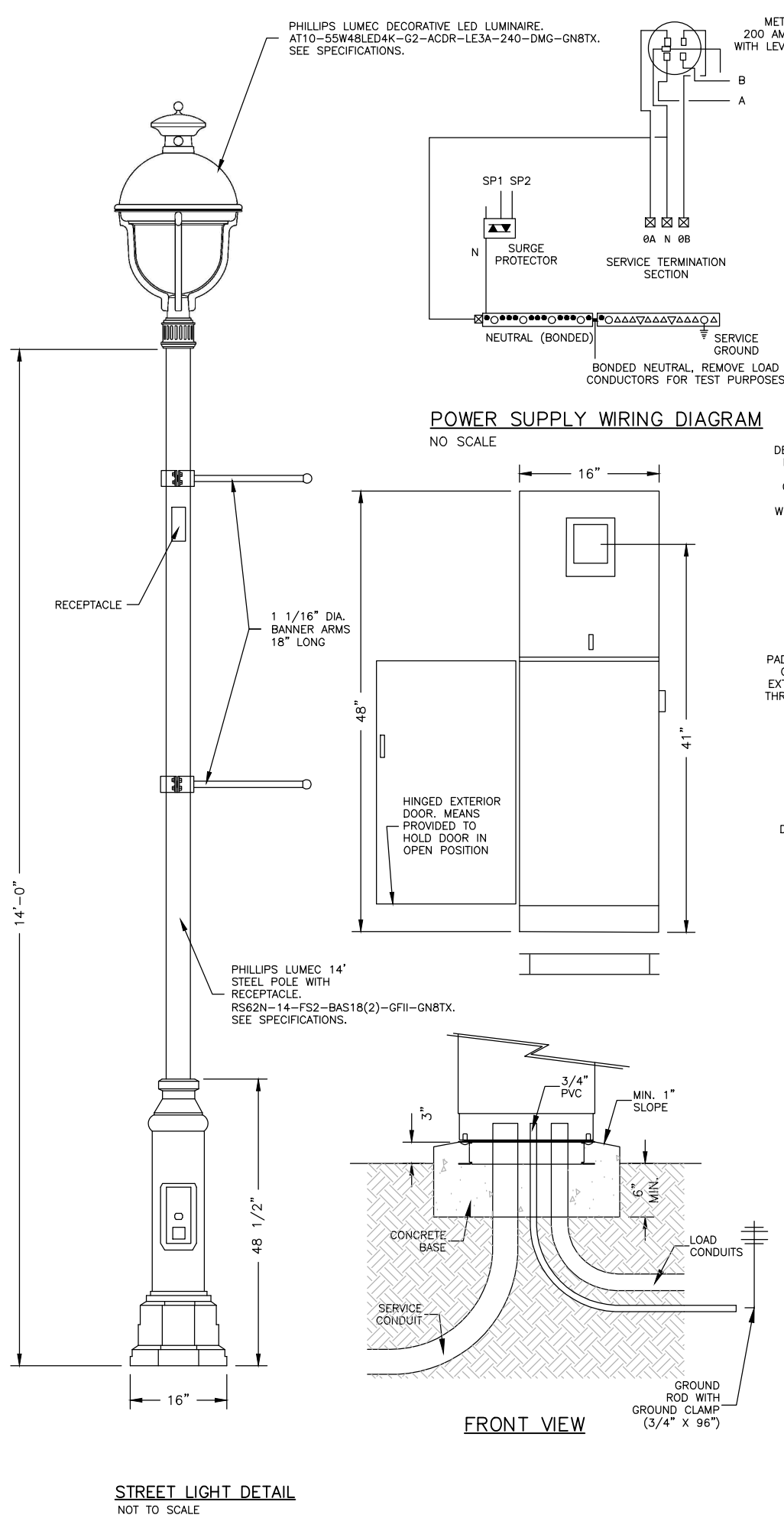


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**BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI**

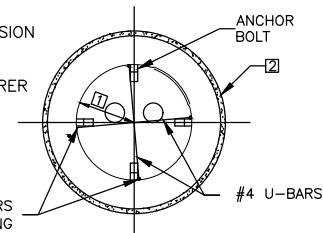
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	DATE:						
	DWN. BY:	K.J.W.		APP'D. BY:		M.D.S.	
	DATE:	SEPT. 2020					
	SCALE:	AS SHOWN					
	PROJ. NO:	SC17-674					
	DWG. NO:	<i>DE-2</i>					

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\LIGHTING DETAILS.dwg Tab: DE-17 Plotted on: Sep 21, 2020 - 3:32pm Plotted by: kwloff

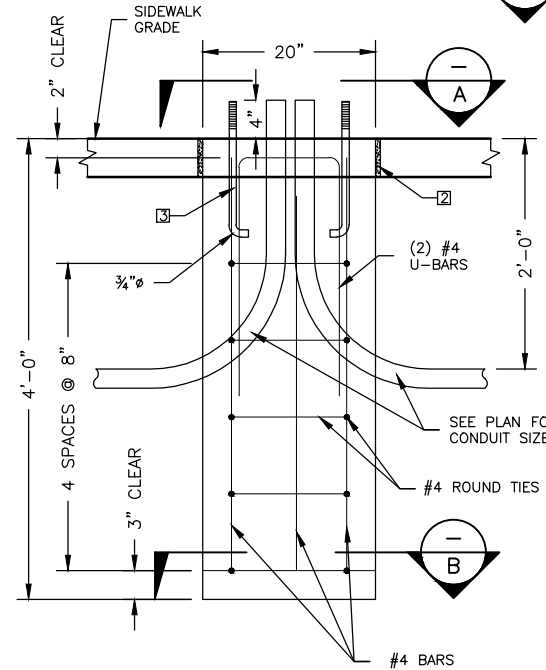


KEYED NOTES

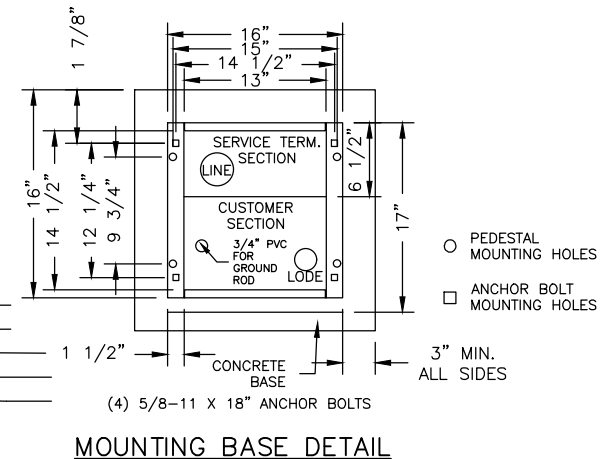
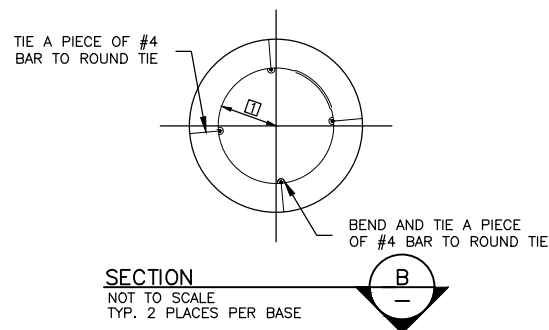
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- 2 1/2" X 4" NON-GASING EXPANSION JOINT.
- 4 - LIGHT POLE MANUFACTURER SUPPLIED GALVANIZED STEEL ANCHOR BOLTS.



SECTION
NOT TO SCALE

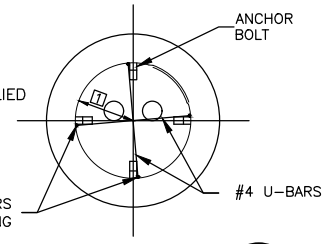


CROSS SECTION OF CONCRETE STREETLIGHT BASE IN SIDEWALK
NOT TO SCALE

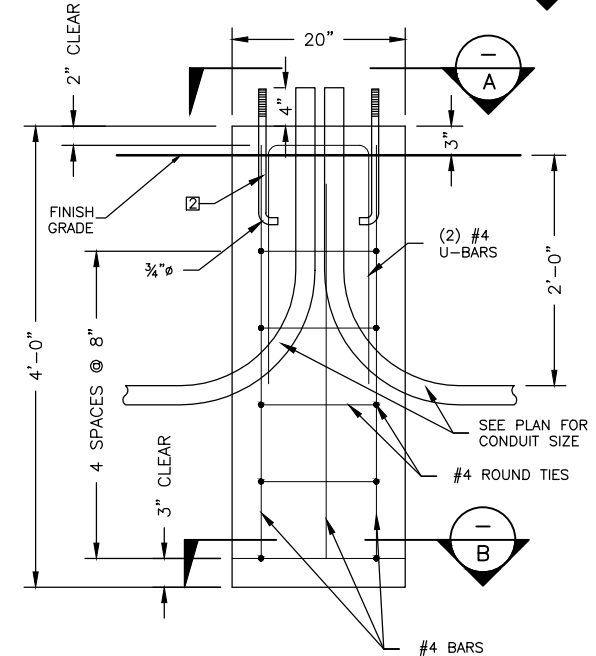


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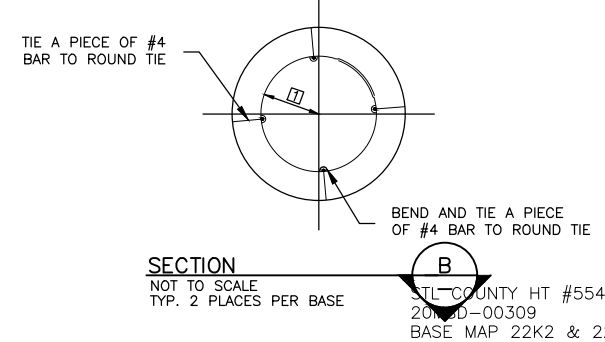
- 1 RADIUS TO INSIDE OF ROUND TIE IS 6".
- 2 4 - LIGHT POLE MANUFACTURER SUPPLIED GALVANIZED STEEL ANCHOR BOLTS.



SECTION
NOT TO SCALE



CROSS SECTION OF CONCRETE STREETLIGHT BASE IN TREE LAWN
NOT TO SCALE



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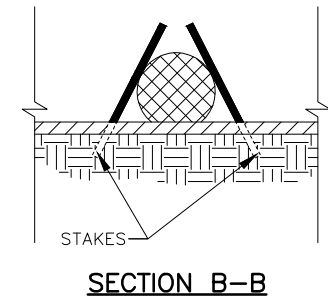
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Architecture
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Master Planning
General Consulting

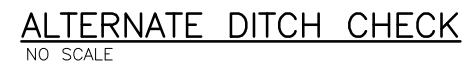
ENGINEERING CERTIFICATE OF AUTHORITY NUMBER 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER 2007004529



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TYPICAL SECTION
TRAPEZOIDAL DITCH



ELEVATION OF TOE MUST BE SAME OR LESS THAN ELEVATION OF TOP.

TOE

TOP

SPACING OF DITCH CHECKS MEASURED CENTER TO CENTER

MINIMUM DITCH CHECK SPACING

NO SCALE

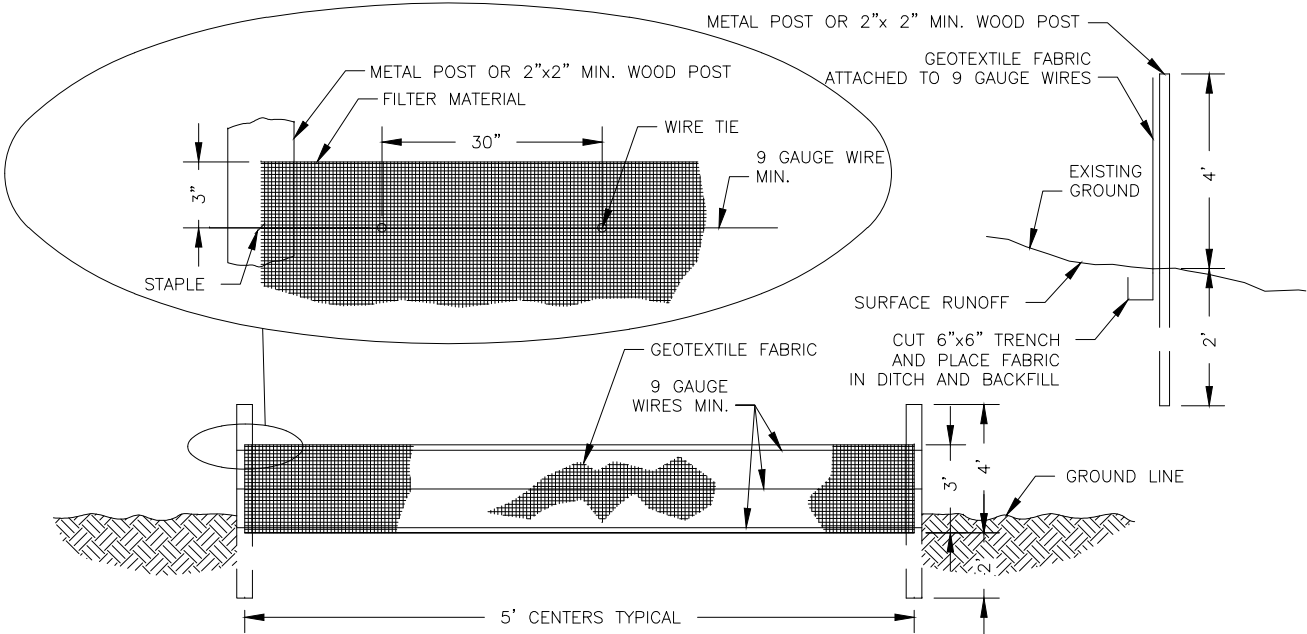
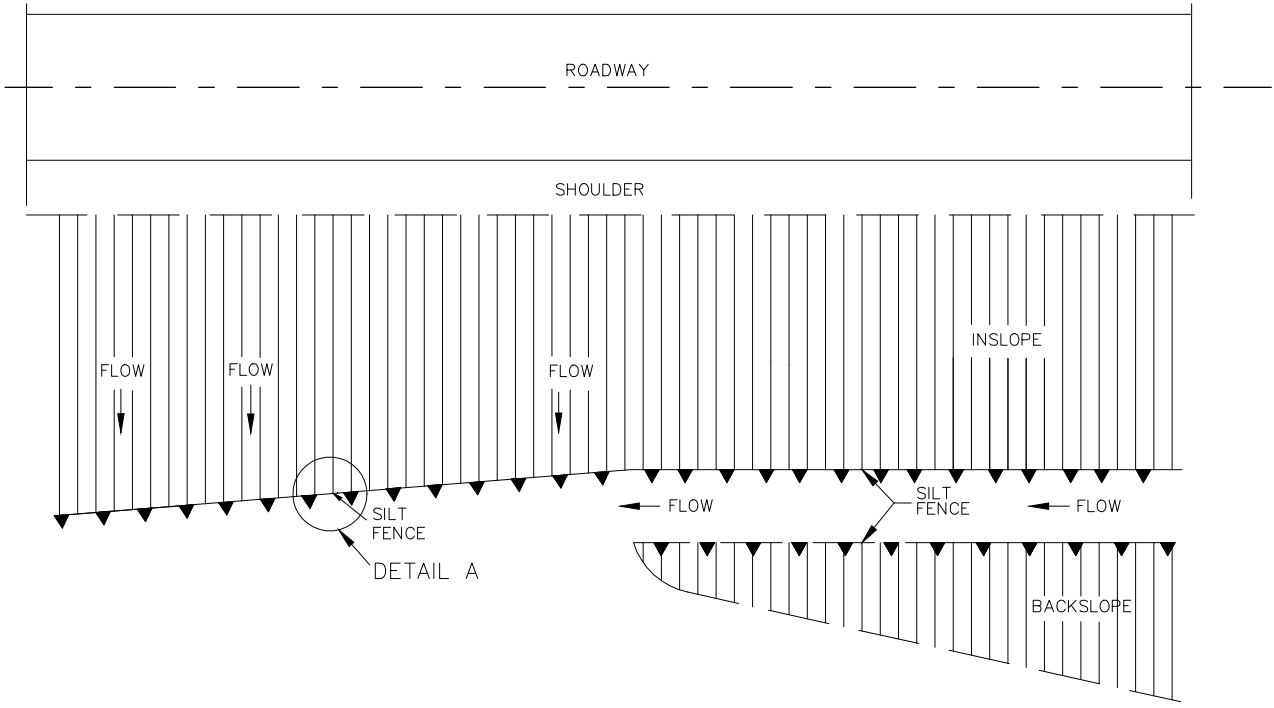
- BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI*

DETAILS	REV/ISSN:								
	DATE:								
	DWN. BY:	K.J.W.	APPD. BY:	M.D.S.					
	DATE:	SEPT. 2020							
	SCALE:	AS SHOWN							
	PROJ. NO:	SC17-674							
	DWG. NO:								
	DE-4								

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

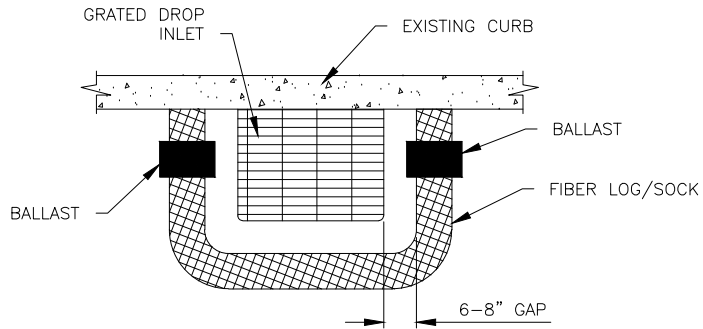
Drawing name: U:\SC17-674 Big Bend Sidewalks Ph. 1 - Webster Groves\AUTOCAD DRAWINGS\EROSION CONTROL DETAILS.dwg Tab: DE-5 Plotted on: Sep 21, 2020 - 3:32pm Plotted by: knloff

EROSION CONTROL

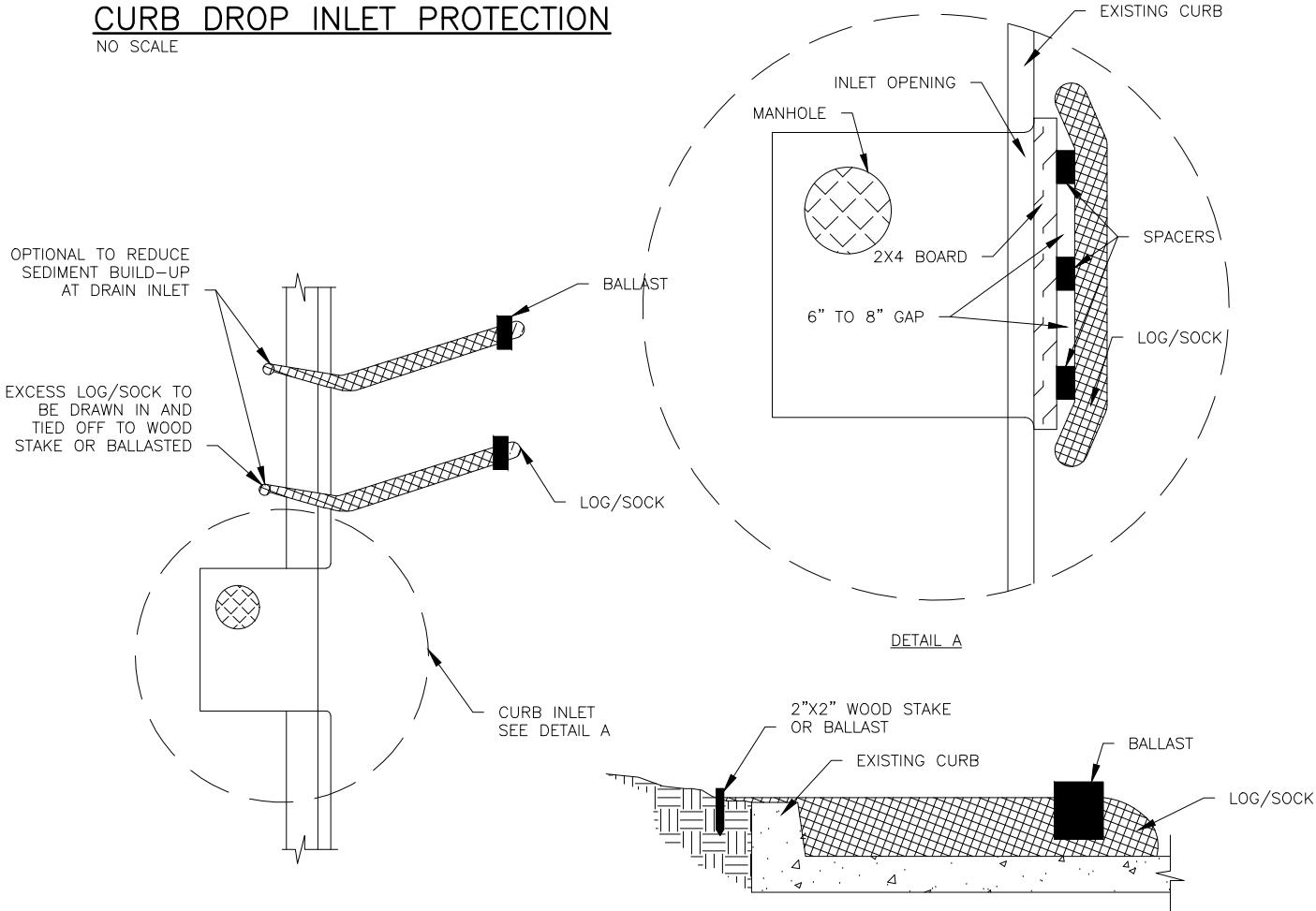


DETAIL A
SILTATION CONTROL DETAILS
NO SCALE

- GENERAL NOTES:
1. SILTATION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ADEQUATE VEGETATIVE GROWTH ENSURES NO FURTHER EROSION OF THE SOIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE SILT FENCE.
 2. SILT FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENTATION WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE SILT FENCE.
 3. ATTACHMENT OF THE GEOTEXTILE FABRIC TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
 4. SILTATION CONTROL SHALL BE INSTALLED AS NEEDED OR AS DIRECTED BY THE ENGINEER TO ENSURE THAT NO SILT LEAVES THE CONSTRUCTION AREA.
 5. USE SILT FENCE FOR ALL SLOPES OVER 3 FEET IN HEIGHT.
 6. FOR FABRIC SILT FENCE:
MINIMUM LONGITUDINAL SPLICE OVERLAP SHALL BE 2' WITH A POST AT EACH END.
SECURE FABRIC TO POSTS.
 7. SILT FENCE SHALL NOT BE USED ACROSS DRAINAGE DITCHES AND DRAINS. DITCH CHECK SHALL BE USED AS SHOWN ON SHEET EC-2 OR AS DIRECTED BY ENGINEER.
 8. CONTRACTOR SHALL USE INLET CHECK EROSION CONTROL DEVICES TO PREVENT ANY SILT OR DEBRIS FROM ENTERING ANY NEW OR EXISTING CURB INLETS DURING CONSTRUCTION.



CURB DROP INLET PROTECTION
NO SCALE



CURB INLET PROTECTION
NO SCALE

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ENGINEERING CERTIFICATE OF AUTHORITY NUMBER - 2007006937
LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
NUMBER
PE-200400859

9/21/20

KEVIN J. WOLFF
NO. PE-200400859
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

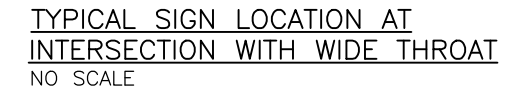
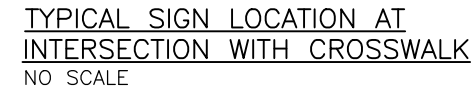
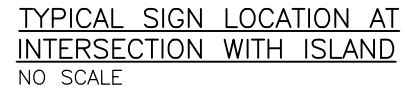
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

DETAILS	DATE:	REVISION:			
	DWN. BY:	APPD. BY:			
	K.J.W.	M.D.S.			
	DATE:	SEPT. 2020			
	SCALE:	AS SHOWN			
	PROJ. NO:	SC17-674			
	DWG. NO:	DE-5			

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

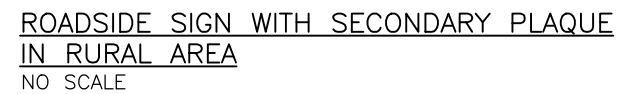


CONTRACTOR SHALL RELOCATE ALL EXISTING SIGNS AS NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS. NEW LOCATIONS SHALL BE AS SHOWN IN THESE DETAILS OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL STORE THE SIGNS IN A
SAFE LOCATION UNTIL THEY ARE READY TO
REINSTALL THE SIGN.

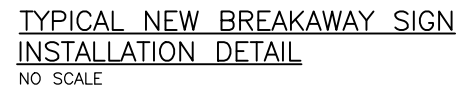
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COUNTY REVIEW OR APPROVAL

ROADSIDE SIGN IN BUSINESS, COMMERCIAL
OR RESIDENTIAL AREA WITH SIDEWALK AT CURB
NO SCALE

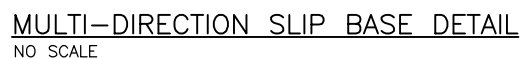
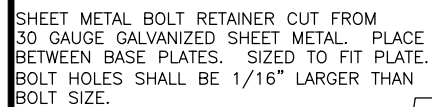


STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

Drawing name: J:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\SIGN PLACEMENT DETAILS.dwg Tab: DE-7 Plotted on: Sep 21, 2020 - 3:32pm Plotted by: kwoiff



ALL PAYMENT FOR CONCRETE FOOTINGS FOR SIGN RELOCATIONS SHALL BE INCLUDED IN THE UNIT PRICE LINE ITEM PER EACH NEW POST.



STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

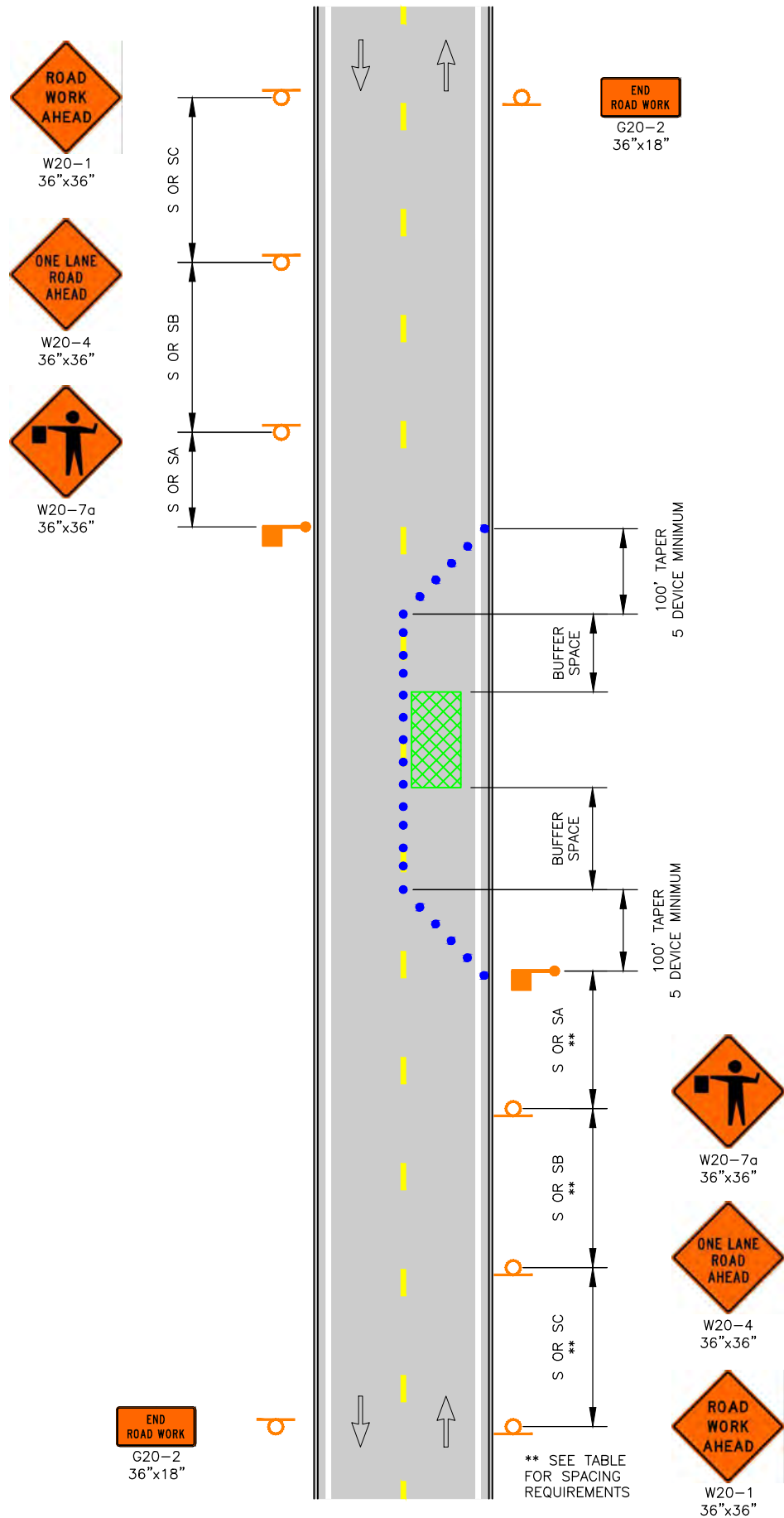
Drawing name: J:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\TRAFFIC CONTROL PLAN.dwg Tab: TC-1 Plotted on: Sep 21, 2020 - 3:32pm Plotted by: kwloff



STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\TRAFFIC CONTROL PLAN.dwg Tab: TC-2 Plotted on: Sep 21, 2020 - 3:32pm Plotted by: kwolf

TRAFFIC CONTROL



LANE CLOSURE ON A MINOR STREET
NO SCALE

NOTES:

1. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). SIZES SHOWN ARE MINIMUM SIZES.
2. TEMPORARY PAVEMENT MARKINGS, IF NECESSARY, SHALL BE CONSIDERED AS INCIDENTAL TO THE CONSTRUCTION OF THE PROJECT AND NO DIRECT PAYMENT WILL BE MADE FOR THIS ITEM. PAVEMENT MARKINGS SHALL BE MAINTAINED IN ACCORDANCE WITH PART VI OF THE MUTCD. INTERIM PAVEMENT MARKINGS MAY BE LEFT IN PLACE FOR SITUATIONS OF TWO WEEKS OR LESS.
3. CHANNELIZERS SHALL BE PLACED EVERY 25 FEET UNLESS SHOWN OTHERWISE ON THE PLANS. A MINIMUM 10 FOOT WIDE DRIVING LANE SHALL BE MAINTAINED. CHANNELIZERS SHALL BE PLACED IN OPEN TRENCH DURING NON-WORKING HOURS.
4. IF AN OPEN TRENCH CONDITION WILL REMAIN OPEN OVERNIGHT, "PAVEMENT EDGE TREATMENT" SHALL BE PROVIDED IN ACCORDANCE WITH MODOT STANDARD DRAWING 619.10 AND SHALL BE CONSIDERED INCIDENTAL.
5. ANY EXISTING SIGNS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED.
6. ALL SPACING AND DISTANCES ARE APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
7. FOR SHOULDER WORK, USE A FLAGGER WHEN MOVING EQUIPMENT ON AND OFF THE ROADWAY, OTHERWISE OPTIONAL. FOR ANY LANE CLOSURE A FLAGGER IS MANDATORY.
8. PORTABLE STOP SIGNS WILL BE REQUIRED ON ALL APPROACHES DURING TRAFFIC SIGNAL "DOWN TIME".
9. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES SHALL BE RESTRICTED TO ONE SIDE OF THE PAVEMENT.
10. WHEN A LANE IS SHUT DOWN THE CONTRACTOR SHALL PROVIDE FOR ONE LANE TWO WAY TRAFFIC WITH A FLAGGER.
11. SIZE OF BUFFER SPACE VARIES BASED ON CONSTRUCTION REQUIREMENTS.

LEGEND

- • • • CHANNELIZERS (SAFETY CONES, BARRICADES, AND/OR PLASTIC DRUMS)
- INFORMATIONAL SIGNING
- FLAGGER
- AREA OF CONSTRUCTION

SIGN SPACING FOR ADVANCE SIGNS (1) (2)		
POSTED SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0 - 35	200 FT	200 FT
40 - 45	350 FT	500 FT
50 - 55	500 FT	1000 FT
60 - 70	SA - 1000 FT, SB - 1500 FT SC - 2640	

KEYED NOTES:

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
- (2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

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LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 2007004529

STATE OF MISSOURI

KEVIN J. WOLFF, P.E.
NUMBER 000000000
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN

9/21/20

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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

TRAFFIC CONTROL PLAN

DATE:	REVISION:
DWN. BY: K.J.W.	APPD. BY: M.D.S.
DATE: SEPT. 2020	
SCALE: AS SHOWN	
PROJ. NO: SC17-674	
DWG. NO: TC-2	

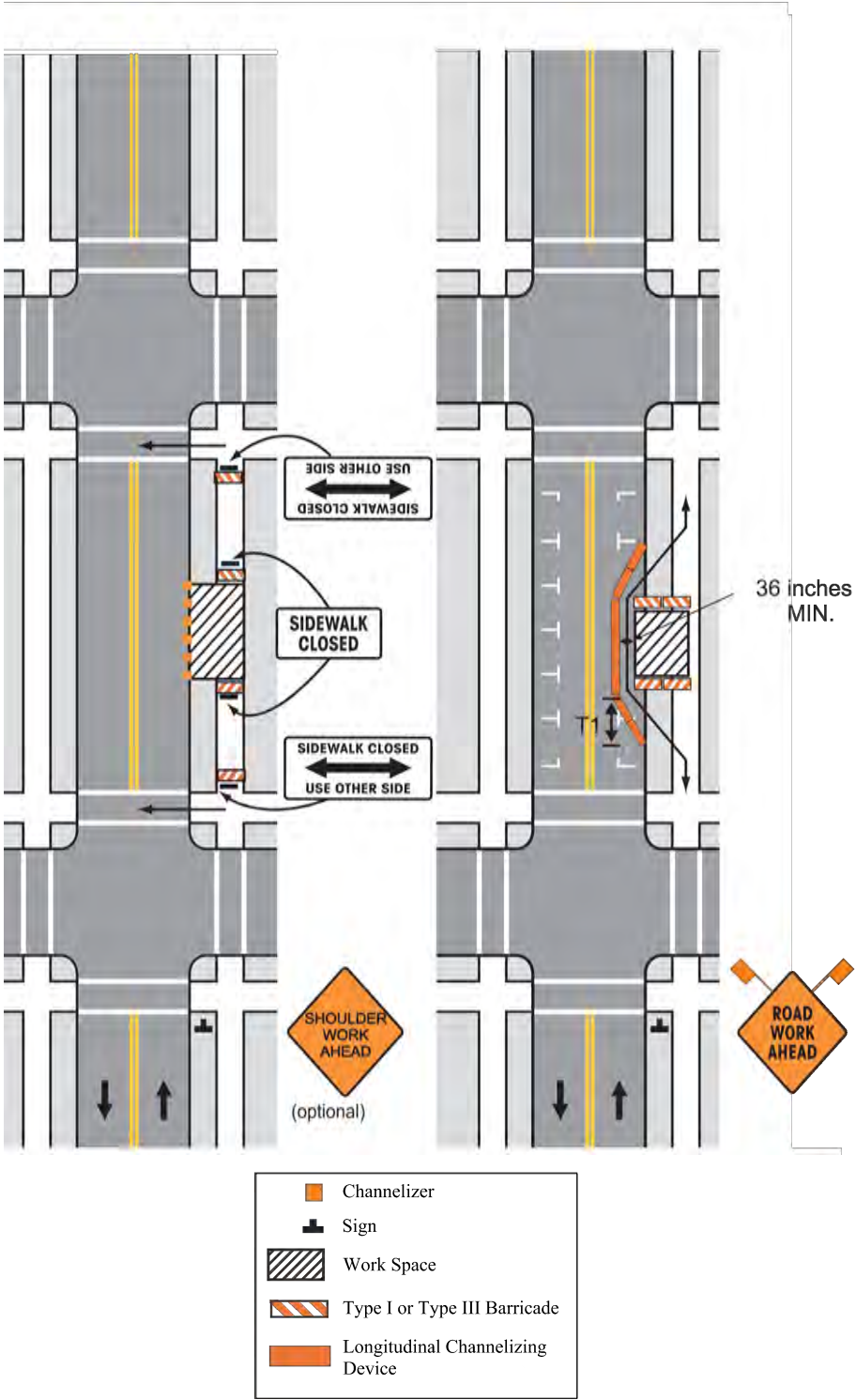
STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\TRAFFIC CONTROL PLAN.dwg Tab: TC-3 Plotted on: Sep 21, 2020 - 3:32pm Plotted by: knloff

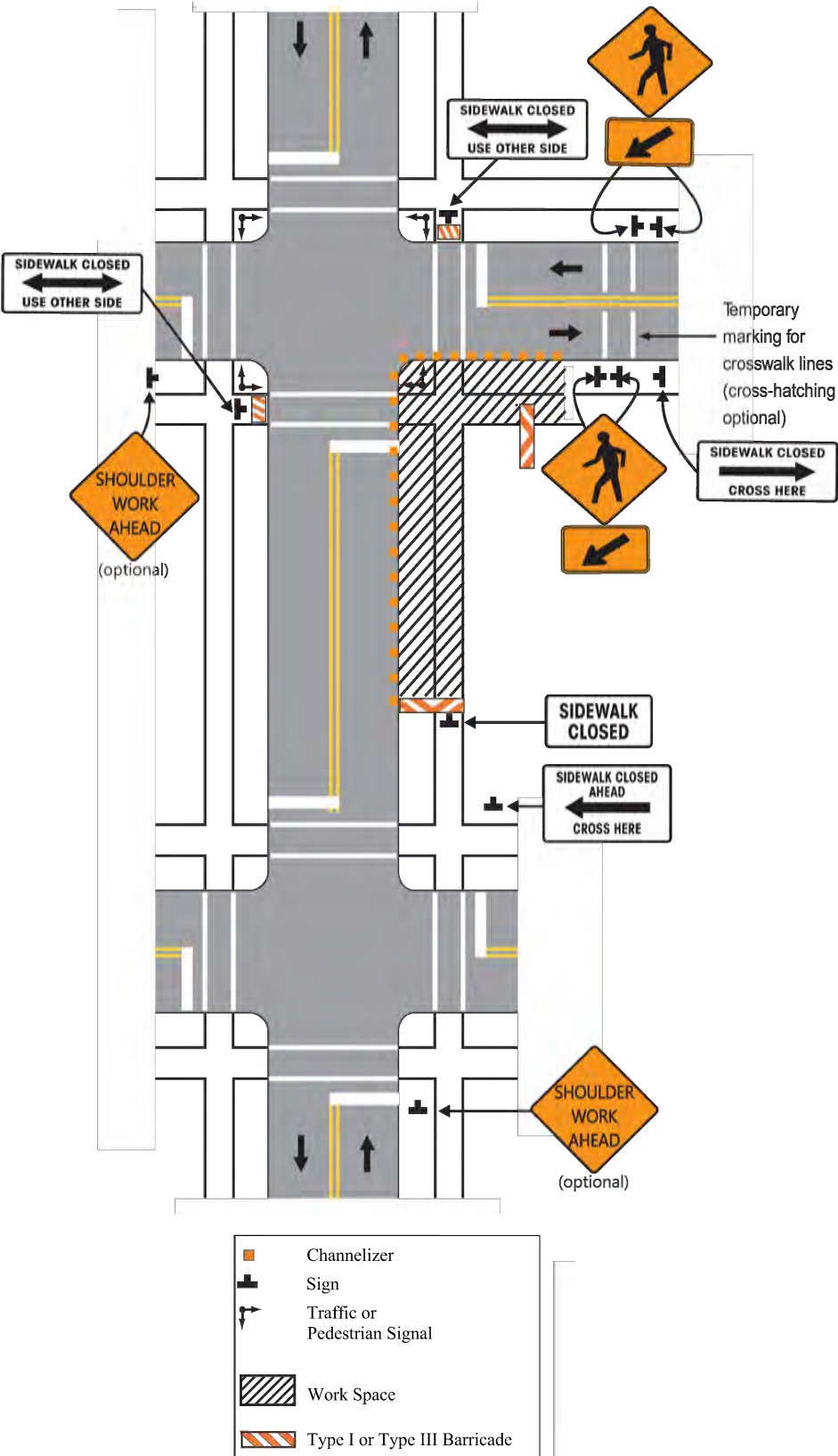
TRAFFIC CONTROL

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder ¹ (T1)	Lane ² (T2)		Tapers	Buffer/ Work Areas
0-35	200	200	70	-	250	15	25
40-45	350	500	150	-	360	20	50
50-55	500	1000	185	-	495	50	100
60-70	SA - 1000, SB - 1500, and SC - 2640		235	-	730	60	100

¹ Shoulder taper length based on 10 ft. (standard shoulder width) offset ² Lane taper length based on 12 ft. (standard lane width) offset



SIDEWALK DETOUR OR DIVERSION
NO SCALE



CROSSWALK CLOSURES AND PEDESTRIAN DETOURS
NO SCALE

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LAND SURVEYING CERTIFICATE OF AUTHORITY NUMBER - 200704529

STATE OF MISSOURI
KEVIN J. WOLFF, P.E.
NUMBER
PE-200400859
9/21/20
KEVIN J. WOLFF
NO. PE-200400859
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
FOR SC ENGINEERING LLC
DBA COCHRAN
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

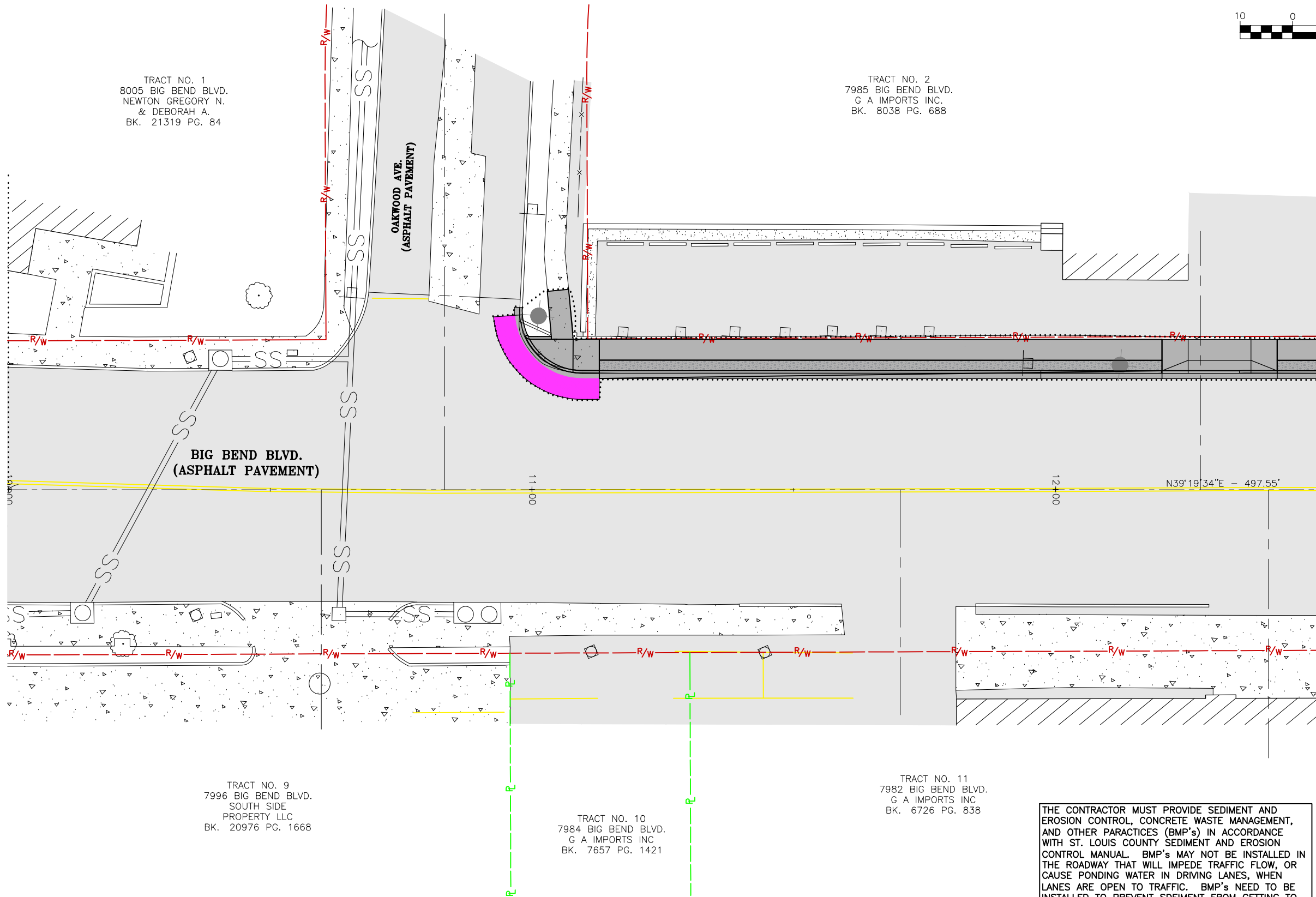
TRAFFIC CONTROL PLAN

DATE:	REVISION:
DWN. BY:	APPD. BY:
K.J.W.	M.D.S.
DATE:	SEPT. 2020
SCALE:	AS SHOWN
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DWG. NO:	TC-3

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\EROSION CONTROL PLAN.dwg Tab: EC-1 Plotted on: Sep 21, 2020 - 3:33pm Plotted by: kwloff

EROSION CONTROL PLAN



THE CONTRACTOR MUST PROVIDE SEDIMENT AND EROSION CONTROL, CONCRETE WASTE MANAGEMENT, AND OTHER PARACTICES (BMP's) IN ACCORDANCE WITH ST. LOUIS COUNTY SEDIMENT AND EROSION CONTROL MANUAL. BMP's MAY NOT BE INSTALLED IN THE ROADWAY THAT WILL IMPEDE TRAFFIC FLOW, OR CAUSE PONDING WATER IN DRIVING LANES, WHEN LANES ARE OPEN TO TRAFFIC. BMP's NEED TO BE INSTALLED TO PREVENT SDEIMENT FROM GETTING TO ROADWAYS. ANY SEDIMENT ON ST. LOUIS COUNTY ROADWAYS MUST BE CLEANED IMMEDIATELY.

MATCH LINE STA. 12+50 SEE SHEET EC-2

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

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STATE OF MISSOURI

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FOR SO ENGINEERING LLC
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9/21/20

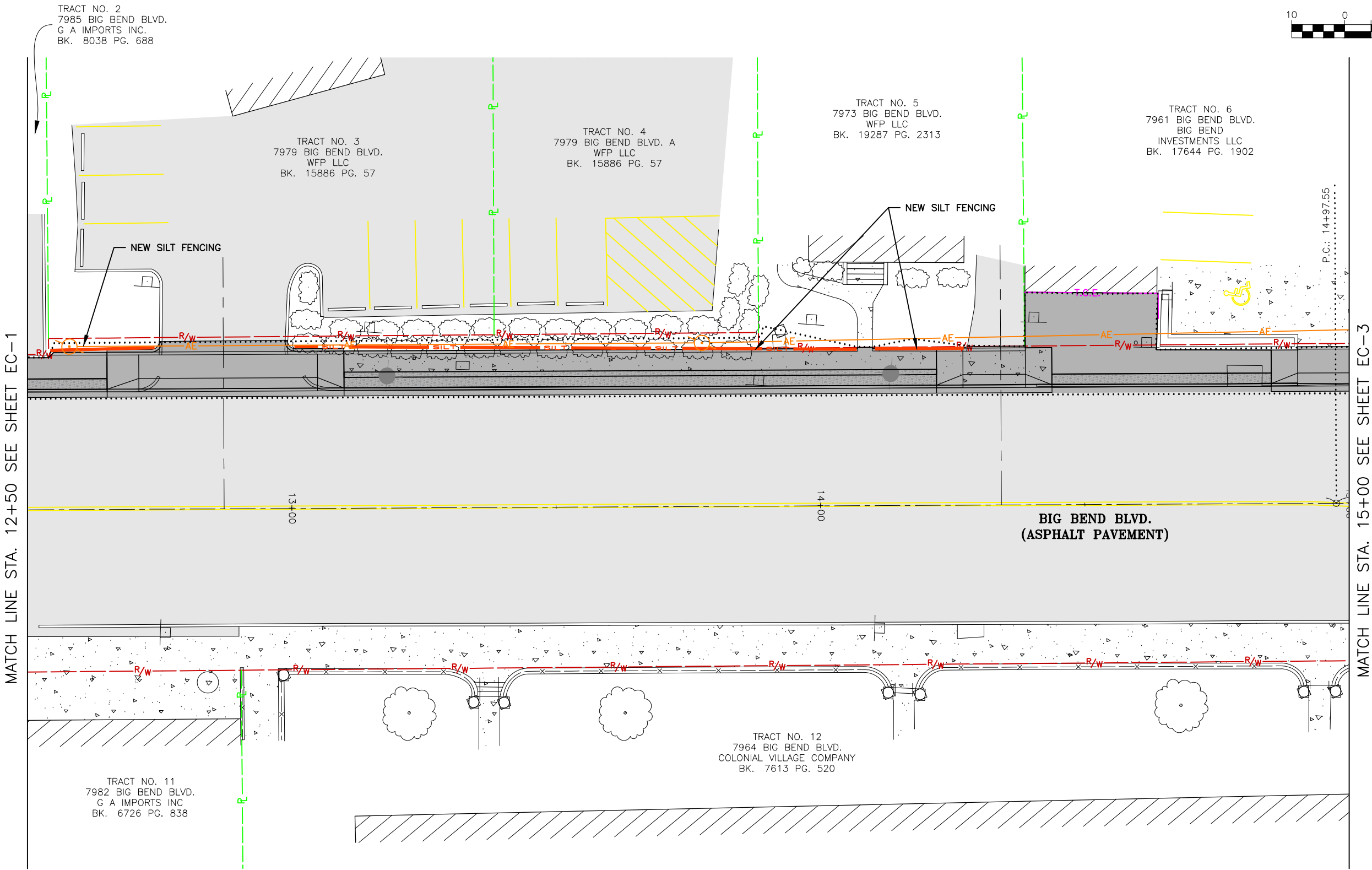
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BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

EROSION CONTROL PLAN	
DATE:	REVISION:
DWN. BY:	APPD. BY:
K.J.W.	M.D.S.
DATE:	SEPT. 2020
SCALE:	1" = 20'
PROJ. NO:	SC17-674
DWG. NO:	EC-1

EROSION CONTROL PLAN



STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

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STATE OF MISSOURI

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NUMBER
PE-200400089

9/21/20

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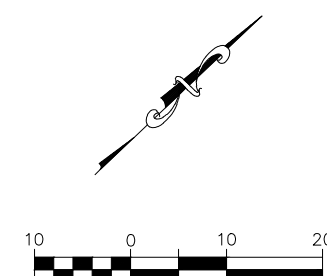
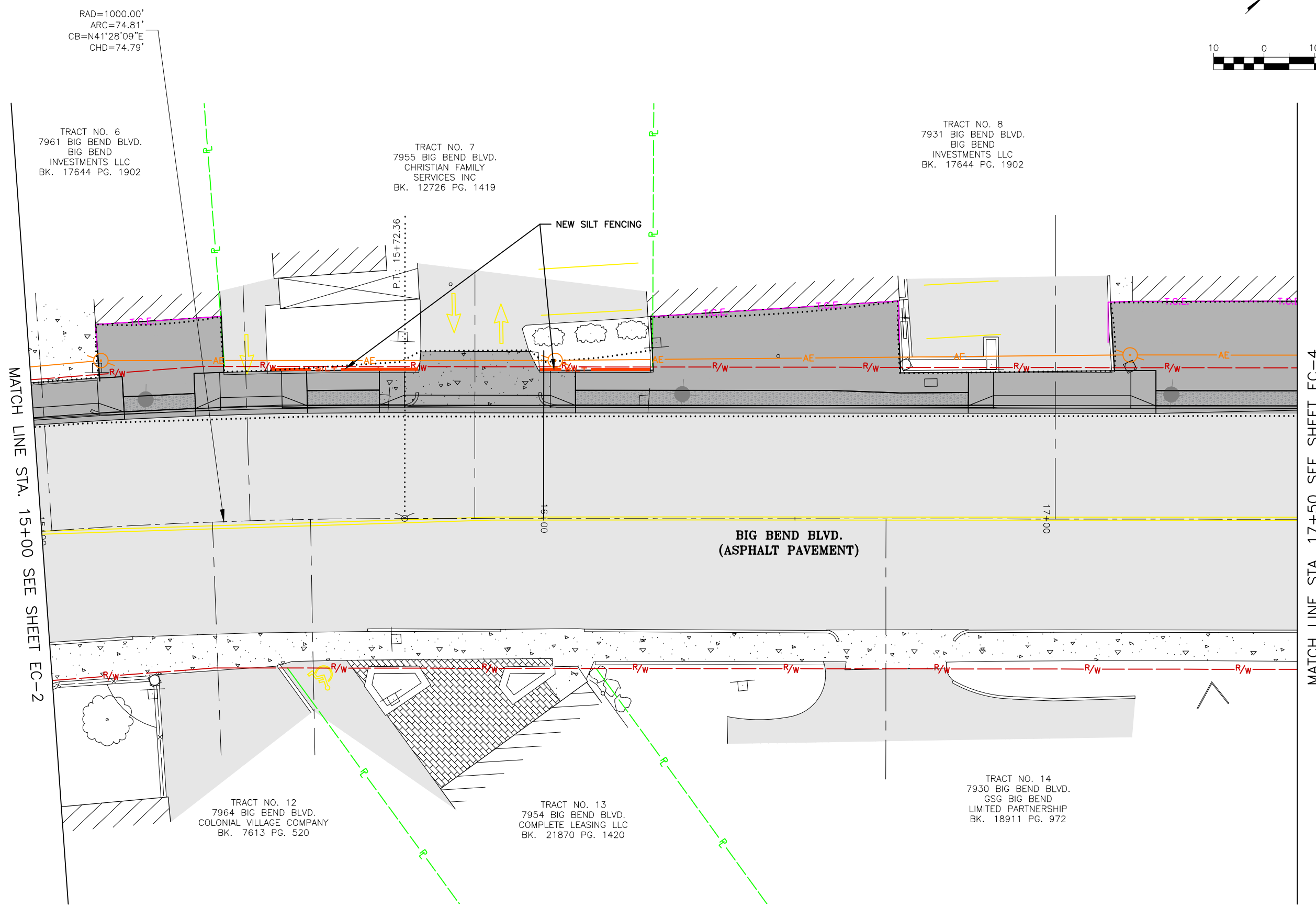
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FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

EROSION CONTROL PLAN	
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DWG. NO:	EC-2

EROSION CONTROL PLAN



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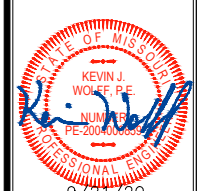
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FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI

EROSION CONTROL PLAN	
DATE:	REVISION:
DWN. BY: K.J.W.	APPD. BY: M.D.S.
DATE: SEPT. 2020	
SCALE: 1" = 20'	
PROJ. NO: SC17-674	
DWG. NO:	
EC-3	

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3



9/21/20
KEVIN J. WOLFF
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REGISTERED PROFESSIONAL ENGINEER
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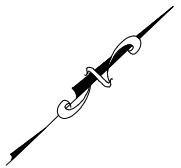
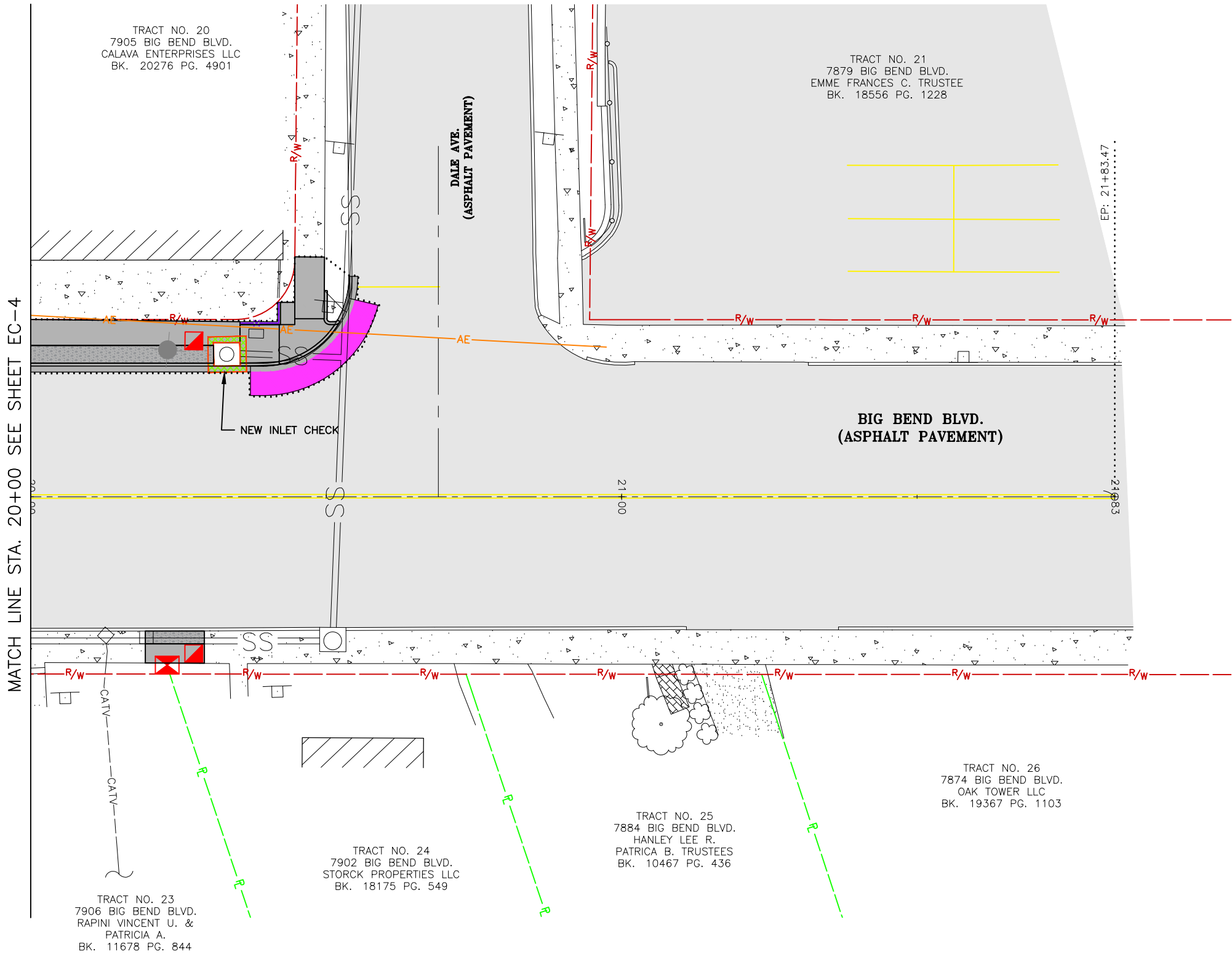
*BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI*

<i>EROSION CONTROL PLAN</i>	REV/NO:								
	DATE:								
	DWN. BY:	K.J.W.				APPD. BY:			
						M.D.S.			
	DATE:	SEPT. 2020							
	SCALE:	1" = 20'							
	PROJ. NO:	SC17-674							
	DWG. NO:	<i>EC-4</i>							

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\EROSION CONTROL PLAN.dwg Tab: EC-5 Plotted on: Sep 21, 2020 - 3:33pm Plotted by: kwloff

EROSION CONTROL PLAN



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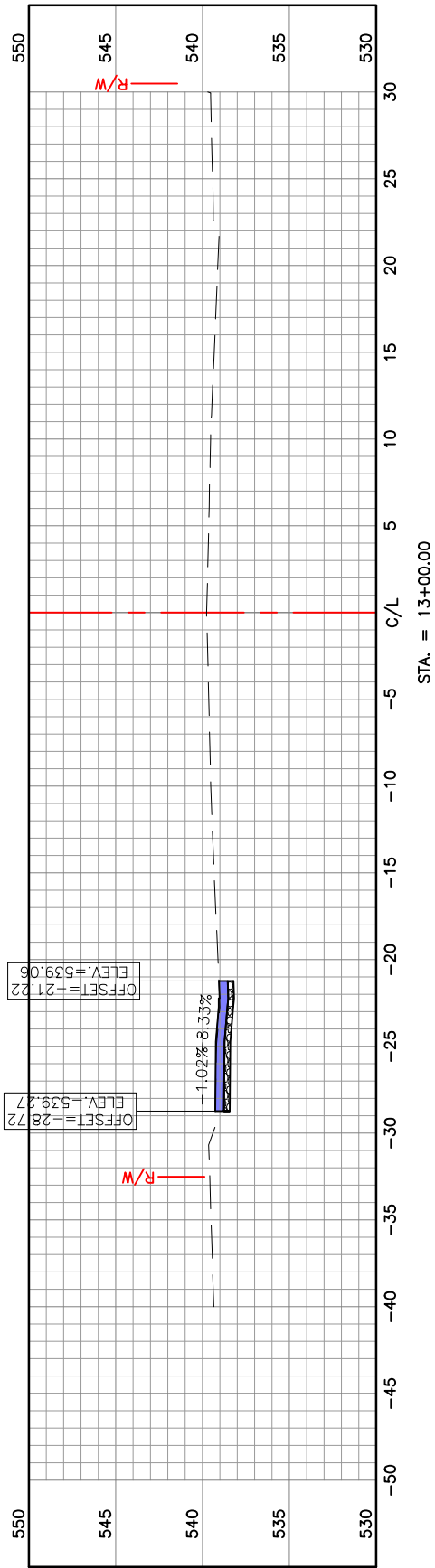
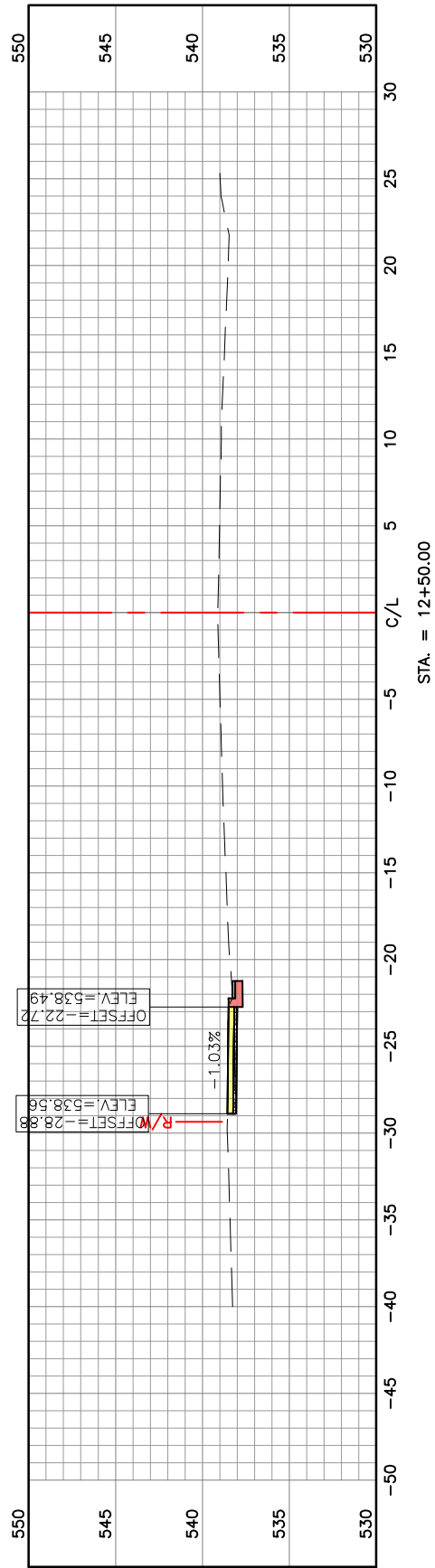
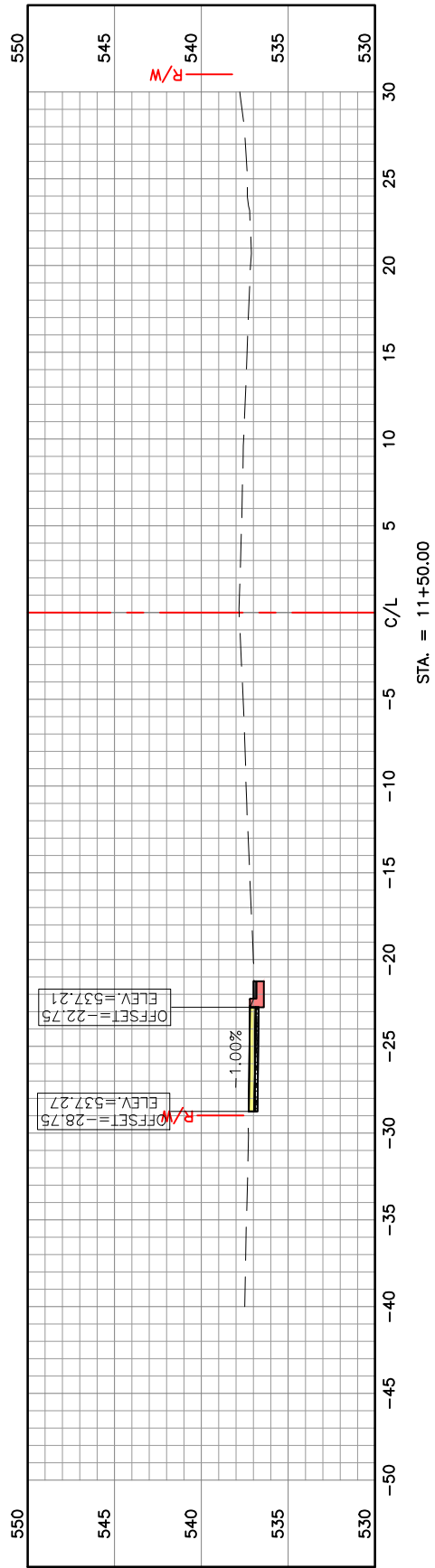
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CITY OF WEBSTER GROVES, MISSOURI

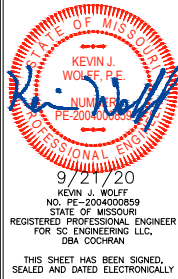
EROSION CONTROL PLAN	
DATE	REVISION
DWN. BY:	APPD. BY:
K.J.W.	M.D.S.
DATE:	SEPT. 2020
SCALE:	1" = 20'
PROJ. NO:	SC17-674
DWG. NO:	EC-5

STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3



CROSS-SECTIONS	DWN. BY:	APPD. BY:
	K.J.W.	M.D.
	DATE:	
	SEPT. 2020	
	SCALE:	
	1' = 10'	
PROJ. NO:		
SC17-674		
DWG. NO:		
<i>XS-1</i>		

**BIG BEND BLVD, SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI**

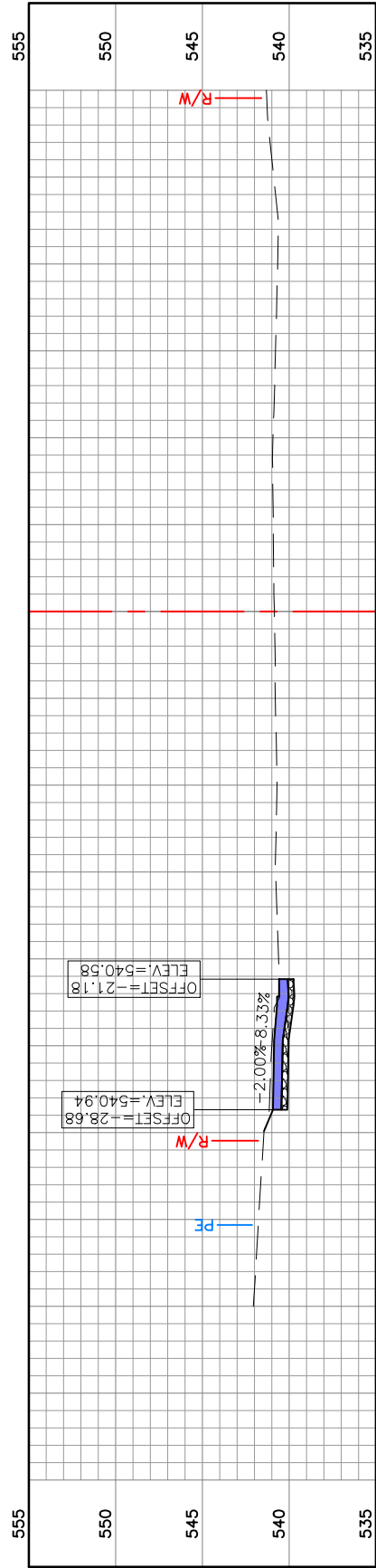
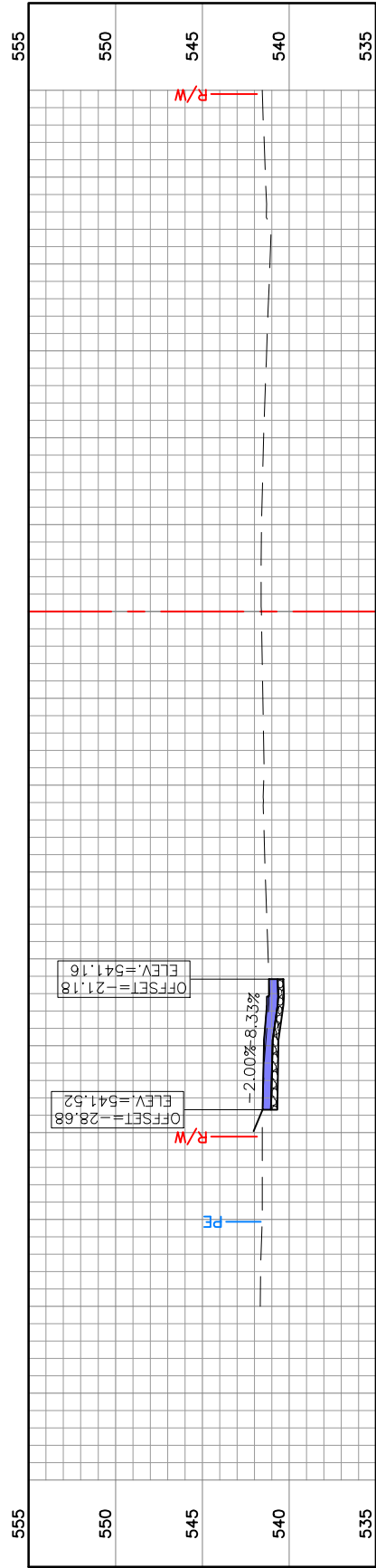
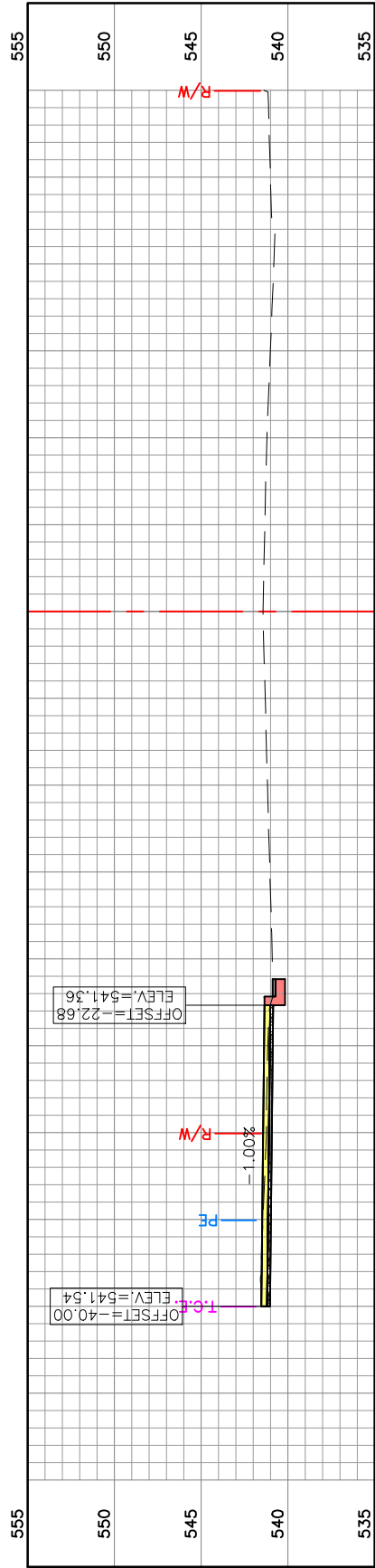
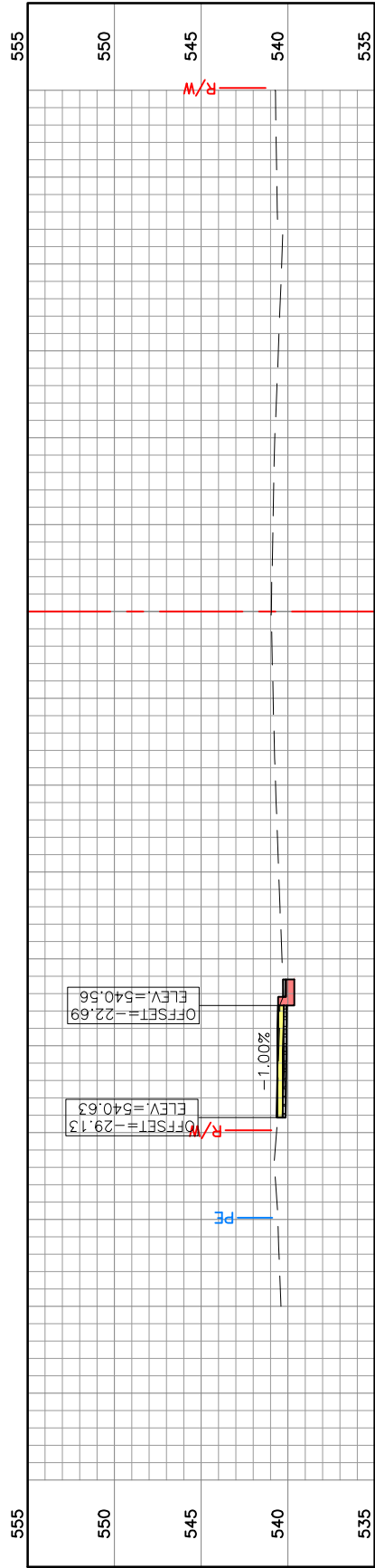
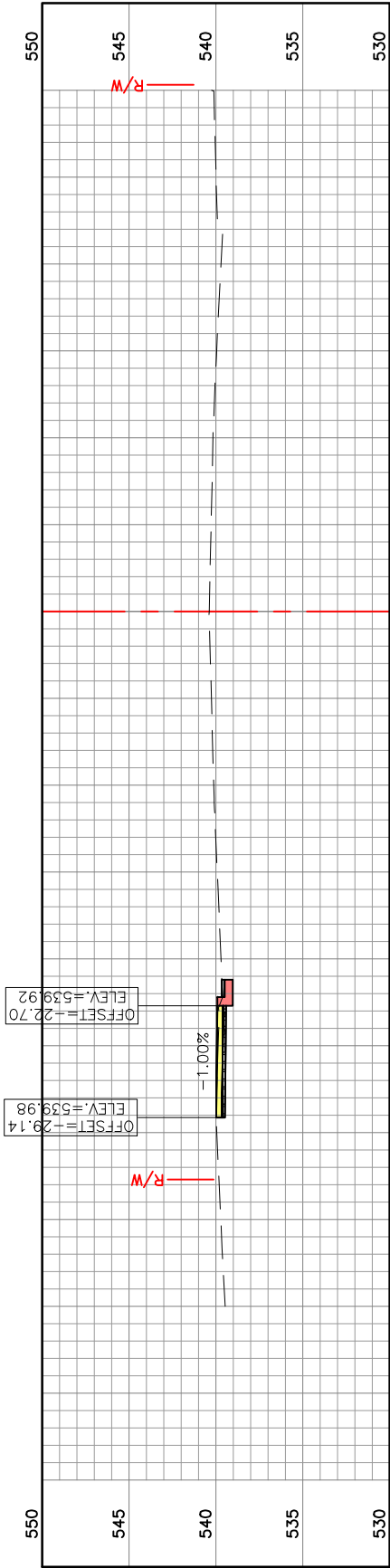


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[illegible]

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CROSS-SECTIONS

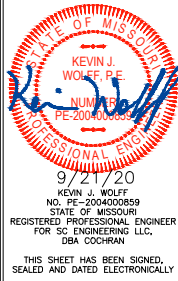


STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

CROSS-SECTIONS

DATE	REVISION
DWN. BY: K.J.W.	APPD. BY: M.D.S.
DATE: SEPT. 2020	
SCALE: 1" = 10'	
PROJ. NO: SC17-674	
DWG. NO: XS-2	

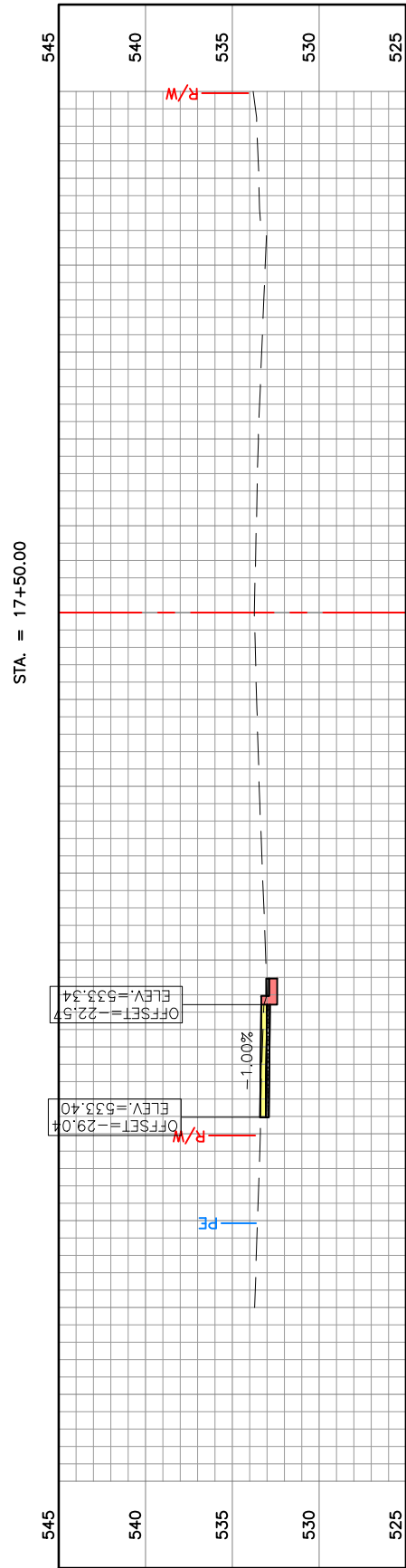
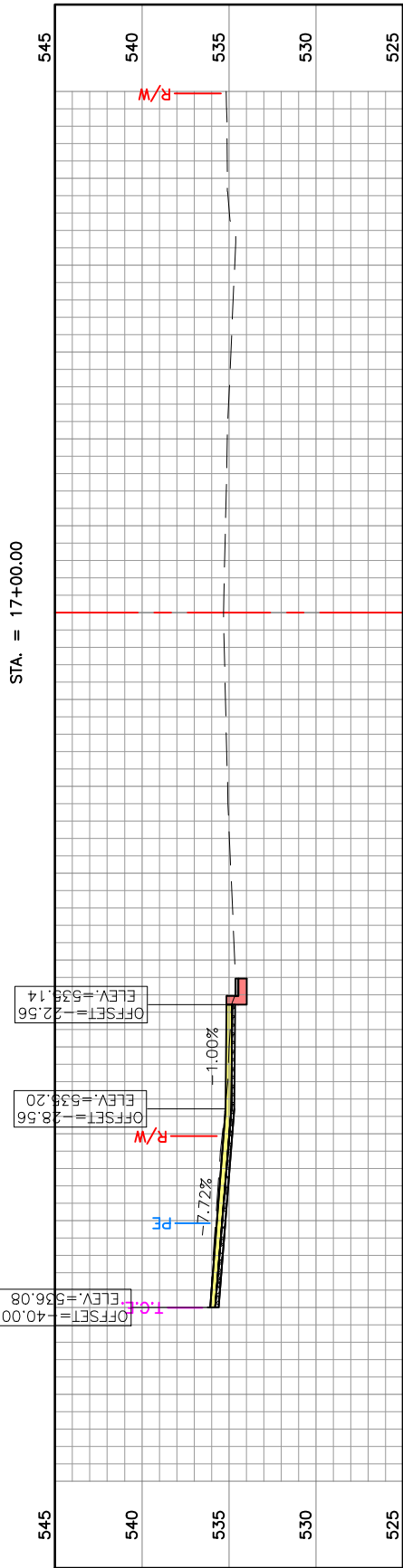
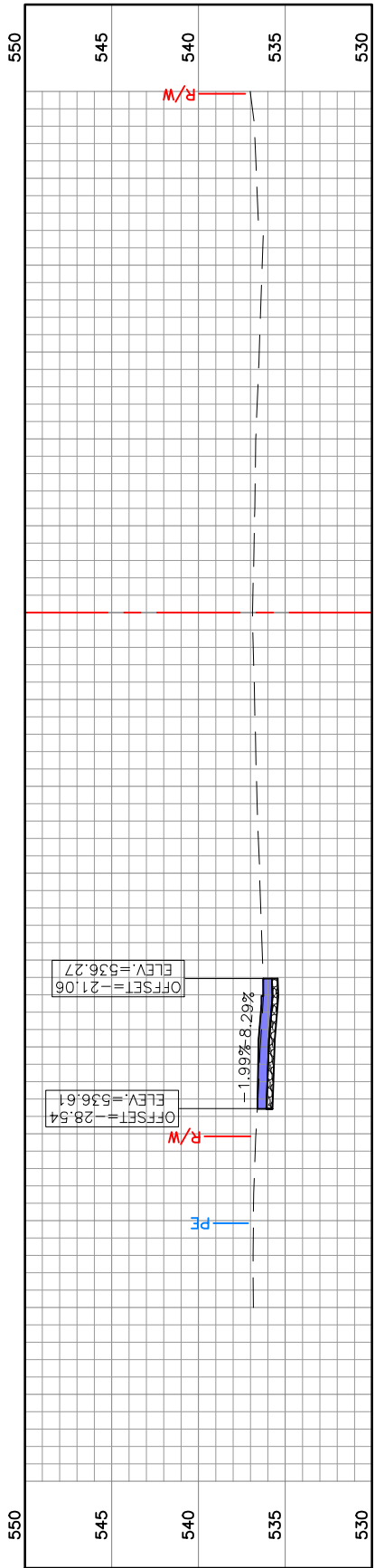
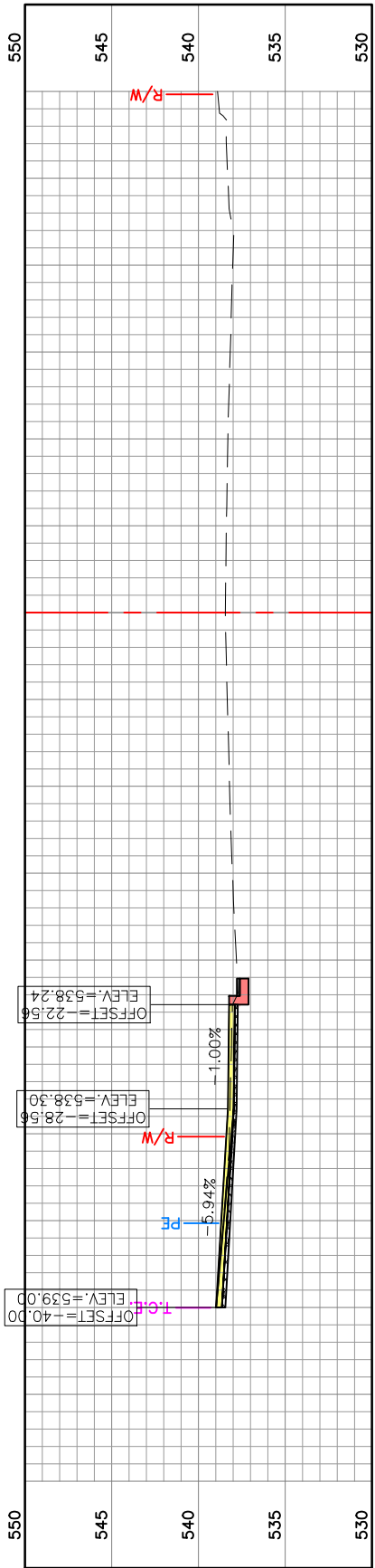
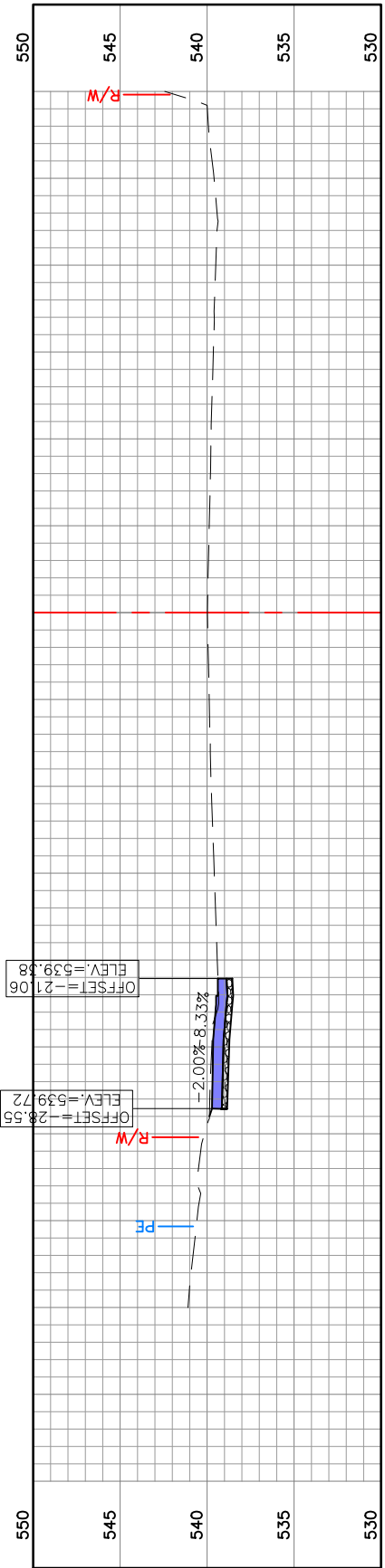
BIG BEND BLVD. SIDEWALK PHASE 1
FEDERAL PROJECT NO. STP 5537(623)
CITY OF WEBSTER GROVES, MISSOURI



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Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\BASE.dwg Tab: XS-3 Plotted on: Sep 21, 2020 - 3:33pm Plotted by: kwolff

CROSS-SECTIONS



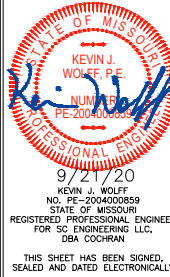
STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

CROSS-SECTIONS

DATE	REVISION
DWN. BY:	APPD. BY:
K.J.W.	M.D.S.
DATE:	
SEPT. 2020	
SCALE:	
1" = 10'	
PROJ. NO:	
SC17-674	
DWG. NO:	

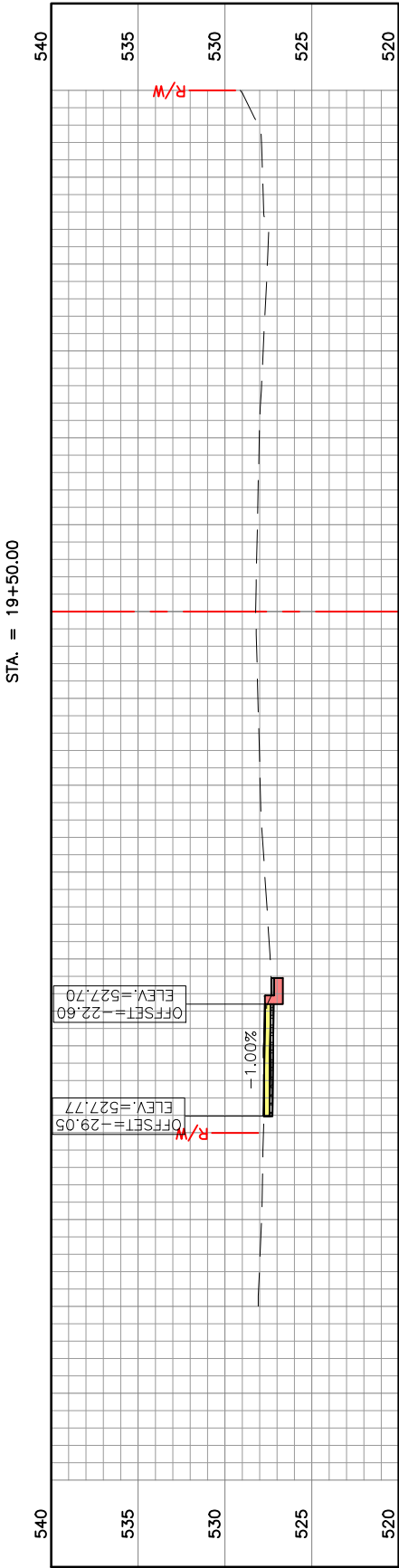
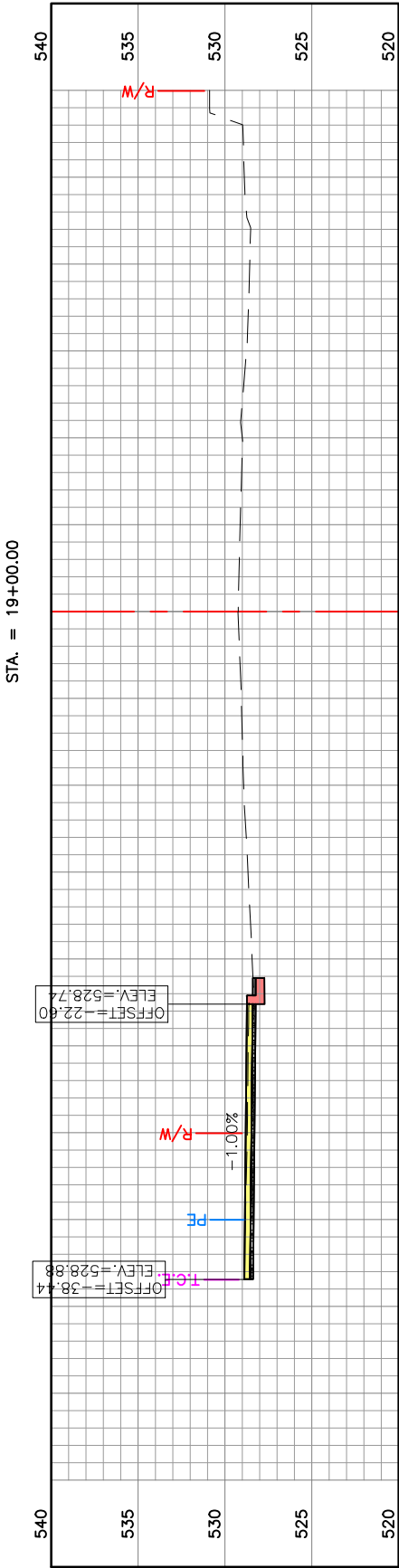
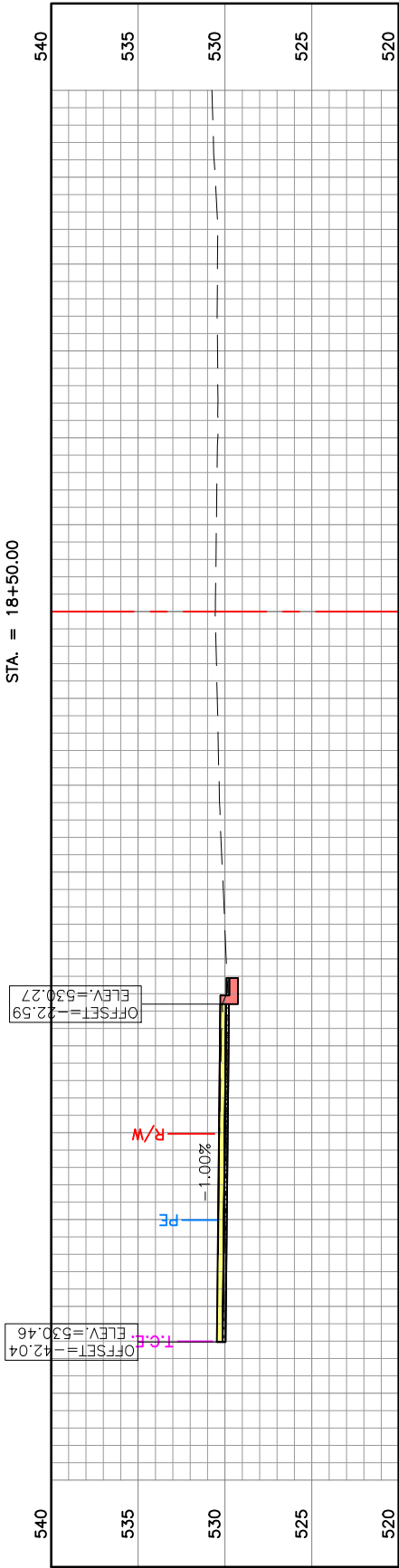
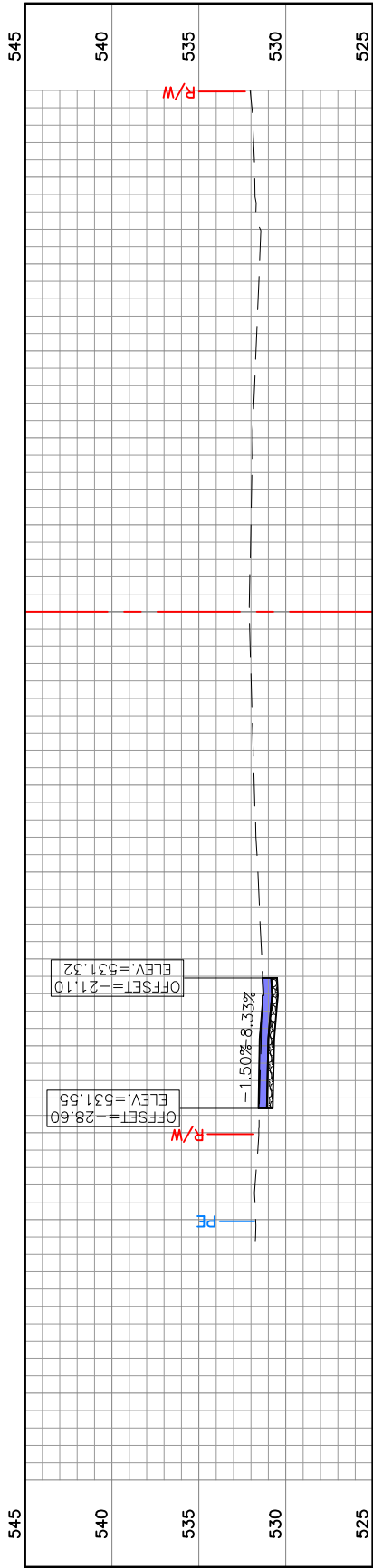
XS-3

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Drawing name: U:\SC17-674 Big Bend Sidewalks Ph 1 - Webster Groves\AUTOCAD DRAWINGS\BASE.dwg Tab: XS-4 Plotted on: Sep 21, 2020 - 3:33pm Plotted by: kwolff



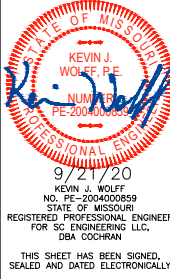
STL COUNTY HT #5549
20MSD-00309
BASE MAP 22K2 & 22K3

CROSS-SECTIONS

DATE	REVISION	DWN. BY	APPD. BY
		K.J.W.	M.D.S.
DATE			
SCALE			
1" = 10'			
PROJ. NO.			
SC17-674			
DWG. NO.			

XS-4

BIG BEND BLVD. SIDEWALK PHASE 1
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