

SECTION 00911 - ADDENDUM 2

PART 1 - GENERAL

1.1 PROJECT INFORMATION

- A. Project Name: South Main Corridor Improvement Project (Phase II)
- B. Engineer: SK Design Group, Inc.
- C. Engineer's Project Number: 16-108.
- D. Date of Addendum: August 3, 2023

1.2 NOTICE TO BIDDERS

- A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. The date for receipt of bids is unchanged by this Addendum at same time and location.

1.3 ATTACHMENTS

- A. This addendum includes the following attached documents:
 - 1. Pre-bid meeting agenda with associated attendees list.
 - 2. Electronic media transfer agreement.
 - 3. Sheet C20.01
 - 4. Sheet SE002
 - 5. Sheet SE201
 - 6. Sheet SE204
 - 7. Sheet SE303

1.4 GENERAL REVISIONS

- A. Project CAD files are available to contractors upon receipt by annlint@skdg.com of a completed, signed Electronic Media Transfer Agreement, which is attached.

1.5 QUESTIONS AND RESPONSES

- A. Question: On drawing SE002 identifies controller F as a 4-circuit controller on the electrical improvement schedule, however on drawing SE 204 it indicates controller F to be a 2-circuit controller. Please clarify if controller F is to be a 2 circuit or 4 circuit controller.

Response: Note 5 on SE204 is revised to read 4-circuit. See attached revised Sheet SE204.

- B. Question: On SE 204 the drawings show 2-2" conduits going from controller F to JB 8. On page SE002 the electrical improvement schedule indicates one conduit going from controller to JB8 and one conduit from Controller to F201. Please clarify the correct routing.

Response: SE002 is correct. The conduit shown on SE204 indicating (1) 2" conduit for Circuit 2 is revised. The circuit 2 continues on from F201 to F204. This conduit shall not continue on to JB8. Circuit 3 is indicated to JB8 and on to F202 will remain. See attached revised Sheet SE204.

- C. Question: On Sheet SE205 at D201 indicates 3-2" conduits to be stubbed up in to the street light base. Due to the room in the screw in base and the cable retainer this is very difficult and from a maintenance stand point difficult to replace if there are issues. We would propose a junction box be installed in front of D201 and then one conduit ran into the base of the foundation.

Response: Note, Sheet SE205 label is revised to SE201 by this Addendum. The new SE201 (previously SE205) is revised to add a JB ahead of D201 to accept the conduits from JB10 and D202. A conduit is added from JB10 to D201. See attached revised Sheet SE205.

- D. Question: On sheet SE204 it indicates the removal of existing street lights to be removed at points F202, F204 and F203. Please provide drawings where these lights are currently being powered from in order to properly disconnect since the new lights will be powered from controller F.

Response: Power for these lights are shown on Everygy Plan 989777-MV_S_MAIN_PH2-1s03CPa. SE204 is revised to note the location of the power source for these three lights. See attached revised Sheet SE204.

- E. Question: Regarding on-the job training, what are the penalties if for whatever reason the requirements are not met?

Response: If a goal is not achieved on the project, there is the Good Faith Effort process. Contractors are encouraged to keep documentation throughout the project of all contacts, job postings, an applicant log, and workforce data to show their efforts in recruitment. Please refer to the Special Training Provisions, particularly sections on Good Faith Efforts.

https://www.modot.org/sites/default/files/documents/external_civil_rights/training_and_compliance/specbooktrainingprovision01-28-2015.pdf

- F. Question: On drawing sheet SE002 electrical improvement schedule it indicates 84 feet on each pole for wire within the pole. This seems to be small quantities due to the pole being 30' with an 8' arm and a second light at 15' with a 4' arm. Can you verify the configuration and if the wire quantity is correct.

Response: Streetlighting is a lump sum bid item and will not be measured. Quantities shown on this sheet are approximate. Contractor is responsible for providing all materials necessary to install the improvements shown on the Streetlighting plans. See attached revised sheet SE002 which includes this note.

- G. Question: On sheet SE303 under the controller schedule it shows on controller F that circuit 3 is used for signage. On the drawings there is no indication of signage lighting on controller F. Please clarify if signage lighting is to be installed.

Response: Controller F schedule is revised to include "Streetlighting/Signage." See attached revised sheet SE303. Refer to Note 6 on SE204 for location where signage is located.

- H. Question: Can you provide Kawasaki Plant night shift change time?

Response: Shift changes at Kawasaki Maryville Plant are as follows:

Morning shift change: 6:30 am to 7:30 am

Afternoon shift change: 2:30 pm to 3:30 pm

Night shift change: 10:30 pm to 11:30 pm

Please also refer to item VIII of pre-bid agenda, attached, for additional requirements for traffic control during shift changes.

1.6 DRAWINGS

- A. Sheet C20.01 - Drawing sheet C20.01 is revised to include additional general notes related storm sewer pipe and temporary traffic management.
- B. Sheet SE002 - Drawing sheet SE002 is revised to include additional notes.
- C. Sheet SE201 - Drawing sheet SE201 was inadvertently labelled as SE205. Sheet SE205 is revised to SE201 in this addendum. See attached revised sheet SE201.
- D. Sheet SE204 - Drawing sheet SE204 is revised per "Questions and responses."
- E. Sheet SE303 - Drawing sheet SE303 is revised per "Question and responses."

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION 00911

City of Maryville, Missouri

South Main Corridor Improvement Project (Phase II)

Project # STP-4301 (104)

Pre-Bid Meeting Agenda – July 27, 2023, at 1:00 p.m.

I. Introductions

Please Sign-in

City Personnel

Name, Title	Email	Phone
Greg McDanel, City Manager	gmcDaniel@maryville.org	660-541-1353
Ryan Heiland, Assistant City Manager	rheiland@maryville.org	660-541-4402
Matt Smith, Public Works Director	msmith@maryville.org	660-562-8025
Stacy Wood, City Clerk	swood@maryville.org	660-562-8003

Engineer's Personnel: SK Design Group, Inc. 913-451-1818

Name, Title	Email	Phone
Sassan Mahobian, Principal in Charge	sassan@skdg.com	913-238-3178
Stephen Brefo, Project Manager, Submittals	sbrefo@skdg.com	816-510-1126
Mehrdad Givechi, Traffic Signals	mgivechi@sunflower.com	785-766-0712
Chris Francisco, Field Project Manager	cfrancisco@skdg.com	816-726-7089
Josh Walters, Field Representative	jwalters@skdg.com	660-483-0771

Engineer's Consultants:

Name, Company	Email	Phone
Adam Teal, Midland Survey	ateal@midlandsurvey.com	660-582-8633
Kathi Vandel, LightWorks	kathi@lightworkskc.com	816-352-6007
Doug Pickert, Indigo	doug@indigoparks.com	913-583-1370
Dylan Kruger, KTI	dzkruger@ktionline.com	913-498-1114

II. Overview of Project Intent, Goals, Objectives

The Work consists of reconstruction of a section of South Main Street Corridor from State Highway V to 285th Street, including:

- Storm sewer system improvement
- Full depth street widening
- Mill and overlay
- Traffic signals
- Lighting
- Curb & sidewalk replacement
- Landscaping
- Improvement to existing driveway access.

The selected Bidder will construct the project, complete related services described in the contract documents and place the project into service in accordance with the plans and specifications.

**City of Maryville, Missouri**

South Main Corridor Improvement Project (Phase II)

Project # STP-4301 (104)

Pre-Bid Meeting Agenda – July 27, 2023, at 1:00 p.m.

III. Schedule

- Questions, Comments and Requests for Clarifications Due to Engineer by Tuesday August 8, 2023, before 2:00 p.m.
- Response to Bidder Questions if necessary (Addendum) by Friday August 11, 2023
- Public Bid Opening August 17, 2023, at 2:00 p.m.
Note: Bids will be received by the City of Maryville, Missouri at the office of the City Clerk, City Hall, 415 N. Market Street, Maryville, Missouri 64468 until 2:00 pm on August 17, 2023.
- Contract Award / Notice to Proceed TBD
- Period of Performance: 540 Calendar Days
- Final Completion TBD

IV. Bidder Checklist

- Submit completed Contractor Questionnaire and/or Contractor Prequalification Questionnaire with attachments not later than seven (7) days prior to the date and hour of the bid opening.
- For submittal of paper bids, the complete set of bidding documents includes all information through the DBE forms.
- If submitting the bid by mail, it is to be completed, executed, and submitted in a sealed envelope addressed to the City of Maryville, MO.
 - Provide the vendor name, vendor address, vendor number, county, route and federal project number on the outside of the envelope (if applicable).
- Please read all items in the bidding document carefully. For paper bids, complete all items in ink or by typing in the information.
- Sign this bidding document properly.
- For paper bids submit a bid bond executed by bidder and surety or attach cashier's check to the bid bond form.
- Submit the DBE Submittal Forms within 3 business days of the Bid Opening.
- For paper bids, staple addenda to the bid in the appropriate part of the bid.
 - The letter accompanying the addenda should be stapled to the inside of the back cover of the bid and returned.

V. Disadvantaged Business Enterprise (DBE)/Buy America/Prevailing Wage/Trainees

- The overall goal for DBE participation for this project is 6%.
 - The Bidder shall also complete the DBE Submittal Forms as required.
- This project falls under Title 23, CFR, titled Buy America Requirements.
 - Buy America certifications will be required on all applicable materials.

**City of Maryville, Missouri**

South Main Corridor Improvement Project (Phase II)

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- This contract requires payment of the prevailing hourly rate of wages for each craft or type of work required to execute the contract as determined by the Missouri Department of Labor and Industrial Relations or federal rates, whichever is higher.
- Training provisions: Provision in the Missouri Highways and Transportation Commission's "General Provisions and Supplement Specifications" which are available on the Missouri Department of Transportation web page at www.modot.mo.gov under "Business with MoDOT" "Standards and Specifications". The number of trainee hours provided under this contract will be two slot for 1000 hours per slot.

VI. Job Special Provisions

- Traffic management schedule shall be submitted to the engineer by contractor prior to the start of work.
 - This should be submitted to the engineer as soon as possible to mitigate delay after NTP is issued.
- Holiday Restrictions: Memorial Day, Independence Day, Labor Day.
 - All lanes shall be scheduled to be open to traffic during holiday periods from 12:00 Noon on the last working day preceding the holiday until 9:00AM on the first working day subsequent to the holiday.
- Night-time paving will be required. For specific requirements, see notes on drawing C20.01.
- Liquidated Damages may be assessed at \$4300/day if work is not complete on time.
- Utility contacts
- Letters of Certification. Utilities "Status" Letter
 - Evergy has facilities that must be relocated for base bid work. The extent of relocations is shown on the plans. Contractor's responsibilities are identified on the plans.
 - Telecom lines will need to be relocated and coordinated with the telecom companies. Contractor's responsibilities are identified on the plans.
 - Gas lines will need to be relocated and coordinated with the gas company. Contractor's responsibilities are identified on the plans.
 - Waterlines will need to be relocated under this contract
- Order of work: Refer to Drawing C20.01.
- ADA per plans and reviewed per MODOT checklist
- Possession of Right-of-Way: There is no delayed possession of right-of-way on the project.

VII. Project Documents

- Copies of plans and specifications and addenda can be seen or purchased for a Non-Refundable fee on-line at www.drexeltech.com in their eDistribution plan room, additional assistance is available at distribution@drexeltech.com.



City of Maryville, Missouri

South Main Corridor Improvement Project (Phase II)

Project # STP-4301 (104)

Pre-Bid Meeting Agenda – July 27, 2023, at 1:00 p.m.

VIII. General Notes

- Enhanced communication between City and selected contractor will be critical.
- Management of traffic between 2:30 – 3:30 p.m. each day will be important with shift change at Kawasaki. Scheduling of major construction activities to avoid these times may be unavoidable, but ideal when possible.
- Following bid opening, the City will request bid concurrence with MoDOT, and contract approval by City Council is expected in September.

City of Maryville, Missouri

South Main Corridor Improvement Project (Phase II)

Project # STP-4301 (104)

Pre-Bid Meeting Sign In Sheet – July 27, 2023, at 1:00 p.m.

<u>NAME</u>	<u>COMPANY</u>	<u>PHONE</u>	<u>EMAIL ADDRESS</u>
Dustin Dunham	RS Electric	816-596-0879	Dustin@RSElectricUtility.com
Stacey Schultz	RS Electric	816-596-0878	Stacey@RSElectricUtility.com
Matt Smith	City	660-562-8025	msmith@maryville.org
Scott Walters	UF Anderson	816-975-9882	ufahuller@scott.com
STEPHEN BREFO	SK DESIGN	913-451-1818	sbrefo@skdg.com
CHRIS FRANCISCO	SK DESIGN	816-726-7089	cfrancisco@skdg.com
Ryan Heiland	City	660-562-8001	rheiland@maryville.org

Zoom ATTENDEES:

Dave Robison Advance Drainage Systems (ADS)

Dirk Hudson

ELECTRONIC MEDIA TRANSFER AGREEMENT

This Electronic Media Transfer Agreement (this "Agreement") is entered into by

(the "Licensee")

and **SK Design Group, Inc.** (the "Licensor"). The Licensee has requested that the Licensor provide certain design, drawings and data in an electronic media format ("Electronic Media") for the **South Main Phase II** project (the "Project").

Electronic Media being transmitted or transferred may contain Civil 3D data, Pipe networks, road profiles, existing and proposed surfaces, surfaces for options studied, computer aided drafting documents, digital modeling, audio, video and/or other graphic images, drawings or designs created or stored for the Project in digital form. In consideration of the Licensor furnishing such Electronic Media to Licensee, Licensee agrees as follows:

1. Due to the potential that the information set forth in the Electronic Media can be modified by the Licensee or others, unintentionally or otherwise, the Licensee shall remove all references to the Licensor's corporate name, professional seal, and/or involvement from each electronic display, if such exists.
2. The data in the Electronic Media represents Project information at a particular point in time and Licensor shall not be responsible to advise Licensee of any changes which may thereafter be made to the Project data or other information transmitted in electronic format. Licensor makes no representation regarding the accuracy or completeness of the Electronic Media transferred or transmitted. In the event that a conflict arises between the signed contract documents for the Project which are prepared by Licensor and the Electronic Media, the signed contract documents shall govern. Licensee is responsible for determining if any conflict exists. Licensor's electronic files are constantly being updated and are not always posted on Licensor's FTP site. Licensee is responsible for requesting updates.
3. Licensor grants to Licensee a limited license to reproduce such information in connection with work on the Project, and for no other purpose. Granting a limited license for use of the Electronic Media shall not be constructed as forming a contractual relationship between the Licensee or any of its agents or assigns. This limited license to use and reproduce information is granted only to the Licensee named in this Agreement and expressly prohibits copying or transmission of the Electronic Media for use by any other party.
4. The Licensor specifically disclaims all warranties, expressed or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the Electronic Media and the information contained therein. The Licensor shall have no liability with respect to any claim, demand, loss, or damage directly or indirectly arising out of the use of the Electronic Media. Further, Licensor shall have no liability for consequential damages, including without limitation damages arising from the actual or alleged negligence of the Licensor.
5. The parties understand that the data contained in the Electronic Media may be altered intentionally or otherwise due to occurrences beyond the reasonable control or knowledge of the Licensor. These may include errors in transcription, machine error, environmental factors, as well as operator error. Further, the data contained on the Electronic Media may be inaccurate or otherwise flawed at the time of transmittal to the Licensee. Licensee, as part of the consideration for accepting the delivery of the Electronic Media and its use, agrees to indemnify, defend, and hold harmless the Licensor, its consultants, and their respective officers, directors, employees, members, and owners from any claims, liabilities, loss and costs, including but not limited to, attorneys' fees and cost of defense arising out of the use of the Electronic Media by Licensee, or others, if released to such parties by Licensee.
6. It shall be the Licensee's responsibility to verify that the information contained within the Electronic Media conforms to all contract requirements for the Project. Should there be any discrepancy, Licensee agrees to notify the Licensor immediately. If notified within, but not later than, fourteen (14) days of the delivery of the Electronic Media, Licensor may elect to revise the Project Electronic Media, and, if so, will provide a revised copy of the Electronic Media, which corrects the discrepancy, if requested by Licensee. This shall be the sole remedy available for any defect.

Licensor: SK Design Group, Inc.

Licensee: _____ (Contractor)

By: 

By: _____

Name: Sassan Mahobian, PE, LEED AP, ENV SP

Name: _____

Title: President

Title: _____

Date: 2023-07-28

Date: _____

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND CITY OF MARYVILLE STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE BY PLANS AND SPECS.

2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE CITY OF MARYVILLE, MISSOURI.

3. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.

4. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

5. ALL EXCAVATION SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE ADJUSTED FOR THIS PROJECT.

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES.

7. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS RECOMMENDED BY M.U.T.C.D.

8. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION AND IS RESPONSIBLE FOR ALL DE-WATERING NECESSARY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING FOLLOWING LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH KC METRO APWA STANDARD DRAWINGS.

9. THE CONTRACTOR SHALL VERIFY THAT THE SOIL CONDITIONS ARE SUITABLE FOR PLANTING AND WILL BE ACCEPTABLE FOR PROPER GROWTH OF THE PROPOSED PLANT MATERIALS PER SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE BASE BID AND BE NO CAUSE FOR ADDITIONAL COST TO THE OWNER.

10. THE CONTRACTOR SHALL GRADE AND OTHERWISE RESTORE ALL DISTURBED AREAS TO A CONDITION READY FOR SEEDING AND SODDING, TOPSOIL IS TO BE PLACED OVER ALL DISTURBED AREAS. PLACE TOPSOIL TO BRING PROPOSED GRADES BACK TO EXISTING CONDITION. GRADE TOLERANCES IN NON-PAVED AREAS FOR THIS PROJECT IS 0.10 FEET.

11. THE ENGINEER AND THE OWNER SHALL APPROVE ALL FINAL GRADES AND CONDITION OF SITE PRIOR TO SEEDING AND SODDING OPERATIONS. FINISH TURF (SEED AND SOD) TO BE FLUSH WITH ADJOINING PAVEMENT SURFACES.

12. WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALED DIMENSIONS.

13. UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS, ETC. MUST BE ADJUSTED AS NECESSARY, BY EACH RESPECTIVE UTILITY OWNER, PRIOR TO CONSTRUCTION, UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

14. THE INFORMATION SHOWN IN THESE PLANS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY, TO AVOID DAMAGE THERETO. THE CONTRACTOR MUST NOTIFY ALL UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION.

15. NEW AND EXISTING INLET AND MANHOLE COVERS SHALL BE ADJUSTED TO THE SAME SLOPE AS ADJACENT SURFACES.

16. BORROW AREAS PROVIDED BY THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY OF MATERIAL AND LOCATION. SPECIAL CARE SHALL BE TAKEN IN THIS APPROVAL TO MINIMIZE THE INCREASE OF SILTATION AND TURBIDITY OF STREAMS, LAKES AND RESERVOIRS AND TO AVOID INTERFERENCE WITH THE MOVEMENT OF MIGRATORY FISH. AREAS WHICH, IN THE OPINION OF THE ENGINEER, MAY LEAVE AN UNSIGHTLY APPEARANCE TO THE PROJECT WILL NOT BE APPROVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE, SEED AND/OR COMPLETE OTHER OPERATIONS NOTED IN THE AGREEMENT WITH THE OWNER, APPROVED BY THE ENGINEER, ON ALL DISTURBED AREAS.

17. ALL PAVEMENT AND SIDEWALKS TO BE REMOVED SHALL BE SAW CUT. ANY PAVEMENT OR SIDEWALKS DAMAGED BEYOND THE ORIGINAL SAW CUT LIMITS (AS SHOWN ON THE PLAN OR DETERMINED IN THE FIELD) SHALL BE RE-SAWED TO PROVIDE AN EVEN JOINT AND REPLACED AT THE CONTRACTOR'S EXPENSE.

18. PAVEMENT AND SIDEWALK REMOVAL LIMITS SHOWN ARE APPROXIMATE AND MAY BE CHANGED DUE TO GRADE CONSIDERATIONS OR OTHER FIELD CONDITIONS, AS APPROVED BY ENGINEER.

19. ALL SAW CUTS SHALL BE FULL DEPTH.

20. CONTRACTOR SHALL MAINTAIN CONSTRUCTION LIMITS WITHIN THE EXISTING AND/OR PROPOSED RIGHT-OF-WAYS AND EASEMENTS.

21. CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING STORM SEWER RUNOFF INTO THE PROPOSED STORM SEWER SYSTEM DURING CONSTRUCTION. TEMPORARY CONNECTIONS SHALL BE MADE, AS APPROVED BY ENGINEER, TO ELIMINATE FLOODING AND PONDING PRIOR TO COMPLETION OF THE PROPOSED STORM SEWER.

22. ALL TOPS FOR PRECAST CURB INLETS CAN BE PRECAST OR CAST IN PLACE. IF INLET TOPS ARE CAST IN PLACE, THE PRECAST INLET WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION. ALL STRUCTURE TOPS MUST MATCH ADJACENT GRADES. ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE BID.

23. UNTREATED COMPACTED AGGREGATE (APWA) OR MoDOT TYPE 5 AGGREGATE COMPACTED TO 95% STD. MAX. DENSITY SHALL BE USED TO BACKFILL ALL TRENCHES LOCATED WITHIN 2 FEET OF PAVEMENT, CURB AND GUTTER, AND SIDEWALK. IN AN INSTANCE WHERE A PROPOSED UTILITY IS ABOVE THE EXISTING GROUND LINE OR HAS LESS THAN 3 FEET OF COVER OVER THE PROPOSED UTILITY, THE CONTRACTOR SHALL PLACE AND COMPACT THE FUTURE FILL TO A POINT AT LEAST 3 FEET ABOVE THE TOP OF THE PROPOSED UTILITY. ONCE THIS LEVEL IS REACHED, THE CONTRACTOR MAY TRENCH IN THE UTILITY AND BACKFILL PRIOR TO PROCEEDING WITH THE REMAINING EARTHEN COMPACTED EMBANKMENT FILL.

24. ALL STORM SEWERS AND WATER LINES UNDER THE PAVEMENT SHALL BE BACKFILLED WITH FLOWABLE FILL IN ACCORDANCE WITH THE DETAILS SHOWN ON PLANS.

25. LABOR, TOOLS, MATERIALS, AND EQUIPMENT REQUIRED TO TEMPORARILY PLUG OR BLOCK THE END OF PROPOSED STORM SEWER PIPE TO PREVENT BACKFILL MATERIAL FROM ENTERING SHALL BE SUBSIDIARY TO BID ITEM 15" STORM.

26. ALL DISTURBED AREAS THAT ARE TO BE SEEDED OR PLANTED SHALL BE MULCHED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

27. FOR SIDEWALKS, ALL EXPOSED EDGES AND JOINT EDGES SHALL BE ROUNDED WITH AN EDGING TOOL HAVING A RADIUS OF 3/8 INCH, UNLESS APPROVED BY THE ENGINEER. ALL JOINTS SHALL BE FORMED BY MAKING A 1/4-INCH GROOVE 2 INCHES DEEP WHILE THE CONCRETE IS STILL PLASTIC ENOUGH TO BE WORKED BUT HARD ENOUGH SO IT WILL NOT SLUMP AFTER GROOVING.

28. ALL CONCRETE MATERIALS SHALL CONFORM TO THE SPECIFICATIONS OF THE KANSAS CITY METROPOLITAN MATERIALS BOARD (KCMMB). COARSE AGGREGATES FOR ALL MIXES SHALL BE ENTIRELY GRANITE OR QUARTZITE.

29. SPRINKLER HEADS AFFECTED BY CONSTRUCTION SHALL BE CAPPED FOR THE DURATION OF CONSTRUCTION AND THE HEADS REPLACED AT THE COMPLETION OF CONSTRUCTION. ANY SPRINKLER APPURTENANCES OR LINES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND SHALL BE SUBSIDIARY TO THE BID ITEM SOD.

30. THE USE OF DUAL WALL (LESS THAN 30") AND TRIPLE WALL (30" TO 60") HIGH-PERFORMANCE POLYPROPYLENE PIPE (PP), MEETING THE REQUIREMENTS OF MODOT SPECIFICADTION SECTION 724 FOR CROSSROAD PIPES IN LIEU OF RCP IS ACCEPTABLE, PROVIDED THAT THE PIPE IS BEDDED PROPERLY PER MANUFACTURER'S RECOMMENDATION AND THE TRENCH IS BACKFILLED WITH FLOWABLE FILL UP TO THE SUBGRADE OF THE PAVEMENT.

31. FOR TRAFFIC MANAGEMENT PURPOSES SHIFT CHANGES AT KAWASAKI MARYVILLE PLANT ARE AS FOLLOWS:
MORNING SHIFT CHANGE: 6:30 AM TO 7:30 AM
AFTERNOON SHIFT CHANGE: 2:30 PM TO 3:30 PM
NIGHT SHIFT CHANGE: 10:30 PM TO 11:30 PM
- GENERAL WATER NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE STANDARDS AND SPECIFICATIONS FOR WATER MAIN EXTENSIONS AND RELOCATIONS OF THE MARYVILLE, MISSOURI WATER SERVICES DEPARTMENT.

2. CONTRACTOR SHALL POTHOLE AND EXPOSE ALL TIE-IN AND CROSSING LOCATIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS REQUIRED TO PROVIDE PROPER HORIZONTAL AND VERTICAL ALIGNMENT FOR NEW WATER MAINS, CONNECTIONS TO EXISTING WATER MAINS AND INSTALLATION OF FIRE HYDRANTS AT THE PROPER LOCATION AND ELEVATION, WHETHER OR NOT THE PROPER FITTINGS, LOCATION OR ELEVATIONS ARE CALLED OUT ON THE DRAWINGS, INCLUDING MODIFICATION OF EXISTING INFRASTRUCTURE REQUIRED TO MAKE ALL OF THE WORK CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS FOR WATER MAIN EXTENSIONS AND RELOCATIONS OF THE MARYVILLE, MISSOURI WATER SERVICES DEPARTMENT.

3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY BLOW-OFF ASSEMBLIES, FITTINGS, THRUST BLOCKING, AND RESTRAINING DEVICES REQUIRED FOR TEMPORARY CONNECTIONS FOR FLUSHING, PRESSURE TESTING, CHLORINATION, AND DE-CHLORINATION OF THE NEW WATER MAINS. PRIOR TO PLACING NEW MAINS IN SERVICE THE CONTRACTOR SHALL REMOVE ANY CORPORATION COCKS USED FOR TESTING OR CHLORINATION AND REPLACE THEM WITH TAPERED BRASS PLUGS.

4. SCHEDULING OF WATER MAIN SHUTS AND CONNECTION TO EXISTING MAINS SHALL BE AT THE DISCRETION OF THE CITY OF MARYVILLE.

5. ALL FIRE HYDRANT BRANCHES SHALL BE RESTRAINED USING APPROVED RESTRAINING DEVICES. HYDRANTS SHALL BE INSTALLED SO THAT THE CENTERLINE OF THE OUTLET NOZZLE IS BETWEEN EIGHTEEN AND TWENTY-ONE INCHES (18" - 21") ABOVE FINISHED GRADE, AND SO THAT THERE IS A MINIMUM CLEAR AREA OF 5' IN EACH DIRECTION TO ALLOW OPERATION OF THE HYDRANT.

6. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES. CONTRACTORS SHALL POTHOLE AND EXPOSE ALL UTILITIES (INDICATED ON THE DRAWINGS, LOCATED AT GRADE BY A UTILITY LOCATING SERVICE, OR EVIDENT FROM UTILITY COMPANY INFORMATION) AT LEAST 500 FEET IN ADVANCE OF WATER MAIN CONSTRUCTION, DETERMINING THE DEPTH, SIZE, AND MATERIAL OF THE UTILITIES IN PROXIMITY TO THE PROPOSED WATER MAIN ALIGNMENT. CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE ENGINEER & ADVISE OF ANY POTENTIAL CONFLICTS WITH THE PROPOSED PIPELINE ALIGNMENT. DEFLECT PIPE TO MAINTAIN MINIMUM 5 FEET HORIZONTAL AND 18 INCH VERTICAL CLEARANCES BETWEEN PROPOSED WATER MAIN AND ALL EXISTING UTILITIES.

7. THE CONTRACTOR SHALL COMPLY WITH STATE LAW REQUIRING ANY PERSON OR FIRM DOING EXCAVATION ON THE PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO AND OBTAINING INFORMATION FROM UTILITY COMPANIES.

8. STREETS AND PARKING AREAS ARE TO BE TO GRADED AND CURBS IN PLACE PRIOR TO CONSTRUCTION OF WATER MAINS. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM GROUND COVER OF 42 INCHES BELOW FINISHED GRADE. SIXTEEN (16)-INCH AND LARGER WATER MAINS SHALL BE INSTALLED WITH A MINIMUM GROUND COVER OF 60 INCHES BELOW FINISHED GRADE.

9. WATER MAINS SHALL BE LAID AT LEAST 10 FEET, HORIZONTALLY FROM ANY SEWER. WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, A WATER MAIN MAY BE LAID CLOSER THAN 10 FEET TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WATER MAINS SHALL BE LAID SUCH THAT THERE IS A MINIMUM OF 18 INCHES CLEARANCE BETWEEN THE PIPE WALL AND THE EXTERIOR OF ANY MANHOLE AND/OR INLET ON THE SEWER LINE.

WHENEVER A WATER MAIN MUST CROSS ABOVE A SEWER, A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER SHALL BE MAINTAINED. A FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ON THE SEWER TO BE CROSSED SO THAT THE JOINTS WILL BE EQUALLY DISTANT FROM THE SEWER AND AS FAR AWAY AS POSSIBLE. THE 18-INCH VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10 FEET, HORIZONTALLY, OF ANY SEWER IT CROSSES.

WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL SEPARATION AS STIPULATED ABOVE, OR WHEN A WATER MAIN MUST CROSS UNDER A SEWER, THE SEWER MUST BE RECONSTRUCTED OF DUCTILE IRON PIPE, PRE-STRESSED CONCRETE CYLINDER PIPE, OR PVC PRESSURE PIPE CONFORMING TO CITY STANDARDS & SPECIFICATIONS. ALL SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING. THE REQUIRED LENGTH OF SEWER TO BE REPLACED OR CONSTRUCTED OF PRESSURE PIPE WILL BE THE LENGTH NECESSARY TO ACHIEVE 10 FEET HORIZONTAL SEPARATION.

10. ALL WORK SHALL CONFORM TO THE LATEST REVISION OF THE MARYVILLE, MISSOURI EROSION AND SEDIMENT CONTROL SPECIFICATIONS.

11. THE END OF ALL ABANDONED WATER MAINS SHALL BE PLUGGED WITH CONCRETE.

12. COVERS, LIDS, AND STANDPIPES ON ALL ABANDONED VALVES SHALL BE REMOVED TO AT LEAST TWO FEET (2') BELOW GRADE AND THE AREA SHALL BE PROPERLY BACKFILLED. IN PAVED AREAS REMOVAL OF VALVE LID AND FILLING OF VALVE BOX WITH CONCRETE MAY BE ALLOWED.

13. EXISTING FIRE HYDRANTS THAT ARE REMOVED SHALL BE RETURNED TO THE CITY OF MARYVILLE.

14. WATER SERVICE LINES CONNECTED TO MAINS BEING ABANDONED SHALL BE RECONNECTED TO NEW MAINS, UNLESS SHOWN OTHERWISE. EXISTING WATER SERVICE LINES BEING TRANSFERRED TO NEW MAINS WILL BE UPGRADED TO MEET CURRENT REGULATIONS.

15. THE CONTRACTOR SHALL VERIFY THE OUTSIDE DIAMETER (O.D.) OF THE EXISTING WATER MAIN PRIOR TO SCHEDULING CONNECTION. PROVIDE SOLID SLEEVES AS REQUIRED.

16. CONTRACTORS SHALL PROTECT EXISTING POWER POLES AND LIGHT POLES FROM DAMAGE AND SHALL PROVIDE BRACING, SHORING, OR OTHER WORK NECESSARY FOR SUCH PROTECTION. ANY STRUCTURES REMOVED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED.

GENERAL SEQUENCE OF WORK BY THE CONTRACTOR (UNLESS NOTED OTHERWISE):

1. CONTRACTOR SHALL DIVIDE THE CONSTRUCTION INTO MANAGEABLE SECTIONS FOR UTILITIES, BASE CONSTRUCTION, AND PAVING OPERATIONS TO MINIMIZE DISRUPTIONS OF TRAFFIC.

2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.

3. SUBMIT DETAILED SCHEDULE, CONSTRUCTION PHASING, AND TRAFFIC CONTROL PLANS FOR APPROVAL BY OWNER AND ENGINEER.

4. PERFORM SURVEY AND STAKING OF IMPROVEMENTS

5. INSTALL EROSION CONTROL MEASURES

6. PERFORM GENERAL DEMOLITION AND GRADING ACCORDING TO THE APPROVED SCHEDULE.

7. INSTALL NEW STORM SYSTEM ACCORDING TO THE APPROVED SCHEDULE AND MAINTAIN ACCESS TO ALL PROPERTIES.

8. INSTALL WATERLINES

9. COORDINATE GAS AND TELECOM RELOCATIONS WITH THE GAS AND TELECOM COMPANIES AND ESTABLISH ROUTING.

10. STAKE ALIGNMENT OF GAS AND TELECOM LINES AND IDENTIFY PROPOSED UTILITY CROSSING DEPTHS FOR THE GAS AND TELECOM COMPANIES TO AVOID CONFLICTS.

11. GAS AND TELECOM COMPANIES TO PERFORM THEIR RELOCATIONS

12. ESTABLISH THE ALIGNMENT OF THE POWER LINE CONDUITS AND EQUIPMENT PAD LOCATIONS WITH EVERGY. COORDINATE CONDUIT ALIGNMENT AND LOCATION OF PADS WITH OTHER IMPROVEMENTS

13. STAKE ALL PROPOSED STORM AND WATERLINE CROSSINGS AND MONUMENT SIGN LOCATIONS AT THE POWER CONDUITS TO AVOID CONFLICTS

14. INSTALL POWER CONDUITS WITH TRACE WIRE, AND SURVEY AS BUILT ALIGNMENT OF THE CONDUITS AT 25' ON CENTER AND AT PROPOSED UTILITY CROSSINGS.

15. INSTALL POWER EQUIPMENT PADS.

16. EVERGY TO INSTALL NEW EQUIPMENT AND CONDUCTORS, AND ENERGIZE SYSTEM.

17. DEMOLITION OF EXISTING POWER SYSTEM AND OVERHEAD LINES.

18. REFER TO SHEET SERIES C33 FOR ADDITIONAL REQUIREMENTS FOR SEQUENCING AND TRAFFIC CONTROL

19. INSTALL BASE AGGREGATE AND PAVEMENT CONCRETE BASE IN SECTIONS WHERE THE ROAD IS BEING WIDENED ACCORDING TO THE APPROVED SCHEDULE.

20. MILL PAVEMENT ACCORDING TO THE APPROVED SCHEDULE.

21. INSTALL ASPHALT PAVING AT NIGHTS AND MAINTAIN ONE 11' LANE OF TRAFFIC OPEN IN EACH DIRECTION ON S. MAIN AND PROVIDE ACCESS TO ALL PROPERTIES. PROVIDE FLAG MAN AS NECESSARY AND SPECIFICALLY FOR WORK SOUTH OF STA. 72+00

22. PROVIDE WEDGE ASPHALT AS NECESSARY AT CHANGES IN GRADE FOR MAINTENANCE OF ACCESS. WEDGE ASPHALT WILL BE PAID AT THE UNIT PRICE FOR TEMPORARY PAVING.

23. LIGHTING INSTALLATION

24. PAVEMENT MARKINGS AND REGULATORY SIGNS

25. LANDSCAPING, IRRIGATION, AND MONUMENT SIGNS

26. WORK THAT DOES NOT AFFECT ACCESS OR THE APPROVED SCHEDULE MAY BE PERFORMED CONCURRENTLY WITH OTHER ITEMS OF WORK.

27. PROPOSED MODIFICATIONS TO THE GENERAL SEQUENCE OF WORK SHALL BE SUBMITTED FOR APPROVAL.

GENERAL UTILITY CONSTRUCTION NOTES

1. CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.

2. CONTRACTOR'S SCHEDULE SHALL INCLUDE ALL CONSTRUCTION BY THE CONTRACTOR AND THE UTILITY COMPANIES.

3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY RELOCATIONS.

4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY SERVICE TO ALL PROPERTIES AND SHALL COORDINATE UTILITY SHUT OFFS WITH PROPERTY OWNERS.

5. CONTRACTOR SHALL FOLLOW THE GENERAL SEQUENCE OF WORK STATED HEREIN UNLESS APPROVED BY THE ENGINEER.

6. CONCURRENT ACTIVITIES MAY BE PERFORMED IF THEY ARE COORDINATED AND DO NOT AFFECT THE OVERALL SEQUENCE OF WORK.

7. THE DEPTH OF THE PROPOSED STORM SEWERS GOVERNS OVER THE DEPTH OF OTHER UTILITIES AND SHALL BE CONSTRUCTED PER PLAN, UNLESS APPROVED BY THE ENGINEER. ALL OTHER UTILITIES MUST GO OVER OR UNDER THE PROPOSED STORM SEWER LINES. WHEN OTHER UTILITIES ARE CONSTRUCTED PRIOR TO STORM SEWERS, THE CONTRACTOR SHALL COORDINATE THE DEPTH OF THE UTILITY WITH THE STORM PROFILE TO AVOID CONFLICTS.

8. CONTRACTOR SHALL COORDINATE THE RELOCATION OF ALL EXISTING UTILITIES IN CONFLICT WITH NEW STORM, WATER AND GRADING WITH UTILITY COMPANIES.

9. CONTRACTOR SHALL INSTALL THE POWER CONDUITS AND EQUIPMENT PADS WHERE SHOWN ON SHEETS C29.01 THROUGH C29.02. THE EQUIPMENT LOCATIONS AND ROUTING SHOWN ARE BY EVERGY AND ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND EQUIPMENT PLACEMENT WITH EXISTING AND PROPOSED IMPROVEMENTS. COORDINATE ALL WORK WITH EVERGY.

10. CONTRACTOR SHALL COORDINATE THE ELEVATION OF THE EQUIPMENT PADS WITH THE PROPOSED GRADES AND SHALL INSTALL PADS PER EVERGY STANDARD DETAILS, WHERE SHOWN.

11. CONTRACTOR SHALL COORDINATE THE RELOCATION OF THE GAS AND TELECOM LINES WITH THE GAS AND TELECOM COMPANIES AND IDENTIFY THE ROUTING FOR THEIR LINES.

12. CONTRACTOR SHALL STAKE THE PROPOSED GAS AND TELECOM ROUTES, THE LOCATION OF THE PROPOSED STORM SEWER CROSSINGS, THE TOP AND BOTTOM OF THE STORM PIPE, AND THE PROPOSED GRADE, AT THE CROSSING TO ENSURE THAT STORM CROSSINGS AND FINISH GRADES ARE TAKEN INTO ACCOUNT IN THE PROFILE OF THE RELOCATED GAS AND TELECOM LINES. A MINIMUM OF 18" OF SEPARATION SHALL BE PROVIDED BETWEEN THE STORM PIPE AND THE PROPOSED GAS AND TELECOM LINES, TO ALLOW CONSTRUCTION OF THE STORM LINE WITHOUT CONFLICT WITH THE GAS AND TELECOM LINES.

13. CONTRACTOR SHALL COORDINATE THE DEPTH OF THE GAS LINE AND TELECOM LINES WHERE EXISTING GRADE IS BEING CUT AND STAKE THOSE AREAS TO ENSURE THAT THE GAS AND TELECOM LINES ARE INSTALLED BELOW PROPOSED GRADES AND AVOID STORM LINES.

14. CONTRACTOR SHALL COORDINATE THE LOCATION AND ELEVATION OF ALL EQUIPMENT PADS, VAULTS, HANDHOLES, RISERS, ETC. THAT ARE INSTALLED BY THE CONTRACTOR OR THE UTILITY COMPANIES, WITH THE PROPOSED IMPROVEMENTS TO ENSURE THAT PROPOSED LOCATION DOES NOT CONFLICT WITH THE SIDEWALKS, CURBS AND OTHER UTILITIES, AND ARE SET AT THE PROPER GRADE.

15. DIRECTIONAL BORING IS ENCOURAGED WHERE APPROPRIATE TO INSTALL THE GAS, TELECOM, AND POWER LINES WHERE POSSIBLE AND ALLOWED BY THE UTILITY COMPANY. VERTICAL PROFILE MUST AVOID THE PROPOSED STORM SEWER AND WATER LINE PROFILES

16. CONTRACTOR SHALL COORDINATE THE TIMING OF POWER LINE AND POWER EQUIPMENT INSTALLATION WITH EVERGY.

17. STORM SEWERS AND WATERLINES SHALL BE CONSTRUCTED AS DETAILED. ALL STORM SEWERS AND WATERLINE TRENCHES UNDER THE PAVING SHALL BE BACKFILLED WITH FLOWABLE FILL.

SURVEY LEGEND

	= CONTROL MONUMENT		= CORRUGATED METAL PIPE
	= ELECTRIC BOX		= REINFORCED CONCRETE PIPE
	= TELEPHONE PEDESTAL		= POLYVINYL CHLORIDE FLEX
	= GUY WIRE		= CORRUGATED PLASTIC PIPE
	= BENCHMARK		= FLOW LINE
	= FIRE HYDRANT		= WATERLINE
	= SIGN		= SANITARY SEWER LINE
	= SANITARY CLEANOUT		= STORM LINE
	= POWER POLE		= OVERHEAD ELECTRIC LINE
	= BOLLARD		= UNDERGROUND ELECTRIC LINE
	= MAILBOX		= FIBER OPTIC LINE
	= LIGHT POLE		= GAS LINE
	= MONITORING WELL		= UNDERGROUND TELEPHONE LINE
	= BUSH		= OVERHEAD TELEPHONE LINE
	= TREE		= METAL FENCE
	= MANHOLE		= WOOD FENCE
	= GAS METER		= CONCRETE
	= ELECTRIC METER		= ASPHALT
	= WATER METER		= GRAVEL
	= GAS VALVE		
	= WATER VALVE		
	= TRAFFIC SIGNAL		

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REV. NO.	DATE	DESCRIPTION
	08/01/23	ADDENDUM # 2

SK Project No. 16-108
Design: KM
Checked: SM

South Main Corridor Improvement Project (Phase II)
STP-4301 (104)
City of Maryville, Missouri

Issued for: BID SET

Date: 2023-06-22

GENERAL NOTES

C20.01

G:\shortcut-targets--by-id\0806BcXP_TenH\VF520V0VU14T2M\LightWorks Server\Projects\1903 Maryville South Main Street\02 E Drawings\03 CAD_Phase II\SE002_003 ROADWAY LIGHTING ELECTRICAL IMPROVEMENT SCHEDULES.dwg Plotted: Aug 01, 2023 -- 11:35am by josh

ELECTRICAL IMPROVEMENT SCHEDULES

POLE NUMBER (RE: PLANS)	DESCRIPTION OF NEW WORK	INGRADE PULLBOX	STLT CTL		SL1 LUMINAIRE STLT TYPE 3M	SL1A LUMINAIRE STLT TYPE 4	SL2 LUMINAIRE PEDESTRIAN	SL3 SIGNAGE UPLIGHT	RA1 LIGHTING POLE ASSEMBLY STLT+PED	RA2 LIGHTING POLE ASSEMBLY STLT ONLY	SHARED TRAFFIC SIGNAL POLE	SH1 FOUNDATION CABLE RETAIN (EA)	SI1 IDENTIF TAGS (EA)	SF1 FUSE HOLDERS (EA)	SG1 UNFUSED KIT GND WIRE (EA)
		NEW	2 CKT	4CKT	NEW	NEW	NEW	NEW	NEW	NEW	SHARED	NEW	NEW	NEW	NEW
D201	NP				1		1		1			1	1	2	1
D202	NP				1		1		1			1	1	2	1
D203	NP				1		1		1			1	1	2	1
D204	NP				1		1		1			1	1	2	1
D205	NA							1							
E101	NP				1		1		1			1	1	2	1
E102	NP				1		1		1			1	1	2	1
E103	NP				1		1		1			1	1	2	1
E104	NP				1		1		1			1	1	2	1
E201	NP				1		1		1			1	1	2	1
E202	NP				1		1		1			1	1	2	1
E203	NP				1		1		1			1	1	2	1
E204	NP				1		1		1			1	1	2	1
E205	NP				1		1		1			1	1	2	1
E206	NP				1					1		1	1	2	1
F101	NP				1		1		1			1	1	2	1
F102	NP				1		1		1			1	1	2	1
F103	NP				1		1		1			1	1	2	1
F104	NP				1		1		1			1	1	2	1
F201	NP				1		1		1			1	1	2	1
F202	NP				1					1		1	1	2	1
F203	NP				1					1		1	1	2	1
F204	NP				1		1		1			1	1	2	1
J5	NE	1													
J8	NE	1													
J9	NE	1													
J10	NE	1													
CONT E	NE		1												
CONT F	NE			1											
		4	1	1	19	0	18	1	18	1		19	19	38	19

DESCRIPTION OF NEW WORK

NE = NEW STREET LIGHTING EQUIPMENT. RE: EQUIPMENT LIST. LOCATE PER NEW PLANS.

NL = E.C. TO PROVIDE AND INSTALL NEW LUMINAIRE ON SHARED TRAFFIC SIGNAL POLE. TRUSS ARMS SHALL BE PROVIDED AND INSTALLED BY TRAFFIC SIGNAL CONTRACTOR. REFER TO EQUIPMENT LIST AND IMPROVEMENT SCHEDULES FOR SPECIFICATION AND ADDITIONAL INFORMATION.

NP = PROVIDE NEW POLE, ARM, FOUNDATION, AND LUMINAIRE. REFER TO EQUIPMENT LIST AND IMPROVEMENT SCHEDULES FOR ADDITIONAL INFORMATION.

NA = PROVIDE NEW ACCENT LUMINAIRE. REFER TO EQUIPMENT LIST AND IMPROVEMENT SCHEDULES FOR ADDITIONAL INFORMATION.

<div>⚠️ ESTIMATED QUANTITIES</div>																												
FROM	TO	C-C DIST	STREETLIGHT CONDUIT RIGID IN TRENCH				STREETLT CONT. NO.	STREETLT CIRCUIT NO.	STREETLIGHT CABLE						STREETLIGHT CABLE						IN POLE CABLE						BORING	TRENCHING
									2 AWG, 1 COND, SERVICE						8 AWG, 1 CONDUCTOR						10 AWG, 1 COND							
			1" (LF)	1-1/2" (LF)	2" (LF)	3" (LF)			COND QTY	WIRE LENGTH	ADJUST 5% C-C	ADJUST 6FT PB	BID TOTAL	COND QTY	WIRE LENGTH	ADJUST 5% C-C	ADJUST 6FT PB	BID TOTAL	COND QTY	WIRE LENGTH	ADJUST 5% CON	BID TOTAL						
			0	0	0	0				0	0		0		0	0		0		0	0		0	0	0	(LF)		
EXISTING CONTROLLER D																												
D204	D203	160.00			160		D	2						3	480	24		504	84	4	88			160				
D203	D202	181.00			181		D	2						3	543	27		570	84	4	88			181				
D202	D201	170.00			170		D	2						3	510	26		536	84	4	88			170				
D201	CONT D	55.00			55		D	2						3	165	8		173	84	4	88			55				
D205	J10	55.00			55		D	2						3	165	8		173	84	4	88			55				
J10	D201	70.00			70		D	2						3	210	11		221	84	4	88			70				
CONTROLLER E																												
UTIL	CONT E	70.00				70			3	210	11		221							0	0			70				
E101	E102	170.00			170		E	1						3	510	26		536	84	4	88			170				
E102	E103	178.00			178		E	1						3	534	27		561	84	4	88			178				
E103	E104	162.00			162		E	1						3	486	24		510	84	4	88			162				
E104	CONT E	112.00			112		E	1						3	336	17		353	84	4	88			112				
E206	J5	50.00			50		E	2						3	150	8		158	84	4	88			50				
J5	E205	122.00			122		E	2						3	366	18		384	84	4	88			122				
E205	E204	174.00			174		E	2						3	522	26		548	84	4	88			174				
E204	E203	170.00			170		E	2						3	510	26		536	84	4	88			170				
E203	E202	144.00			144		E	2						3	432	22		454	84	4	88			144				
E202	E201	136.00			136		E	2						3	408	20		428	84	4	88			136				
E201	CONT E	68.00			68		E	2						3	204	10		214	84	4	88			68				
					0															0	0			0				
CONTROLLER F																												
UTIL	CONT F	225.00				225			3	675	34		709							0	0			225				
F101	F102	170.00			170		F	1						3	510	26		536	84	4	88			170				
F102	F103	162.00			162		F	1						3	486	24		510	84	4	88			162				
F103	F104	161.00			161		F	1						3	483	24		507	84	4	88			161				
F104	CONT F	88.00			88		F	1						3	264	13		277	84	4	88			88				
F201	CONT F	85.00			85		F	2						3	255	13		268	84	4	88			85				
F201	J8	80.00			80		F	2						3	240	12		252	84	4	88			80				
J8	F202	50.00			50		F	2						3	150	8		158	84	4	88			50				
F201	F204	205.00			205		F	2						3	615	31		646	84	4	88			205				
F204	J9	65.00			65		F	2						3	195	10		205	84	4	88			65				
J9	F203	60.00			60		F	2						3	180	9		189	84	4	88			60				
J8	CONT F	175.00			175		F	3						3	525	26		551	84	4	88			175				
TOTALS W/ADJUSTMENT (SUM OF COLUMNS):			0	0	3478	295							929				10956				2470	0	3773					
BID TOTAL (TO NEAREST 10):			0	0	3480	300							930				10960				2470	0	3780					

- NOTES:
1. REFER TO TRAFFIC SIGNAL SHEETS FOR STREETLIGHTING CONDUIT AND TRENCHING BETWEEN SHARED TRAFFIC SIGNAL POLES IF "TS" IS NOTED IN LIGHTING IMPROVEMENT COLUMN. IF "TS" IS NOTED, ITEMS PROVIDED AND INSTALLED BY TRAFFIC SIGNAL CONTRACTOR.

2. STREETLIGHTING IS A LUMP SUM BID ITEM AND WILL NOT BE MEASURED. QUANTITIES SHOWN ON THIS SHEET ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS NECESSARY TO INSTALL THE IMPROVEMENTS SHOWN ON STREETLIGHTING PLANS.

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REV. NO.	DATE	DESCRIPTION
△	8/1/2023	ADDENDUM 2

SK Project No. 16-108
Design: JK
Checked: KV

Issued for: BID SET

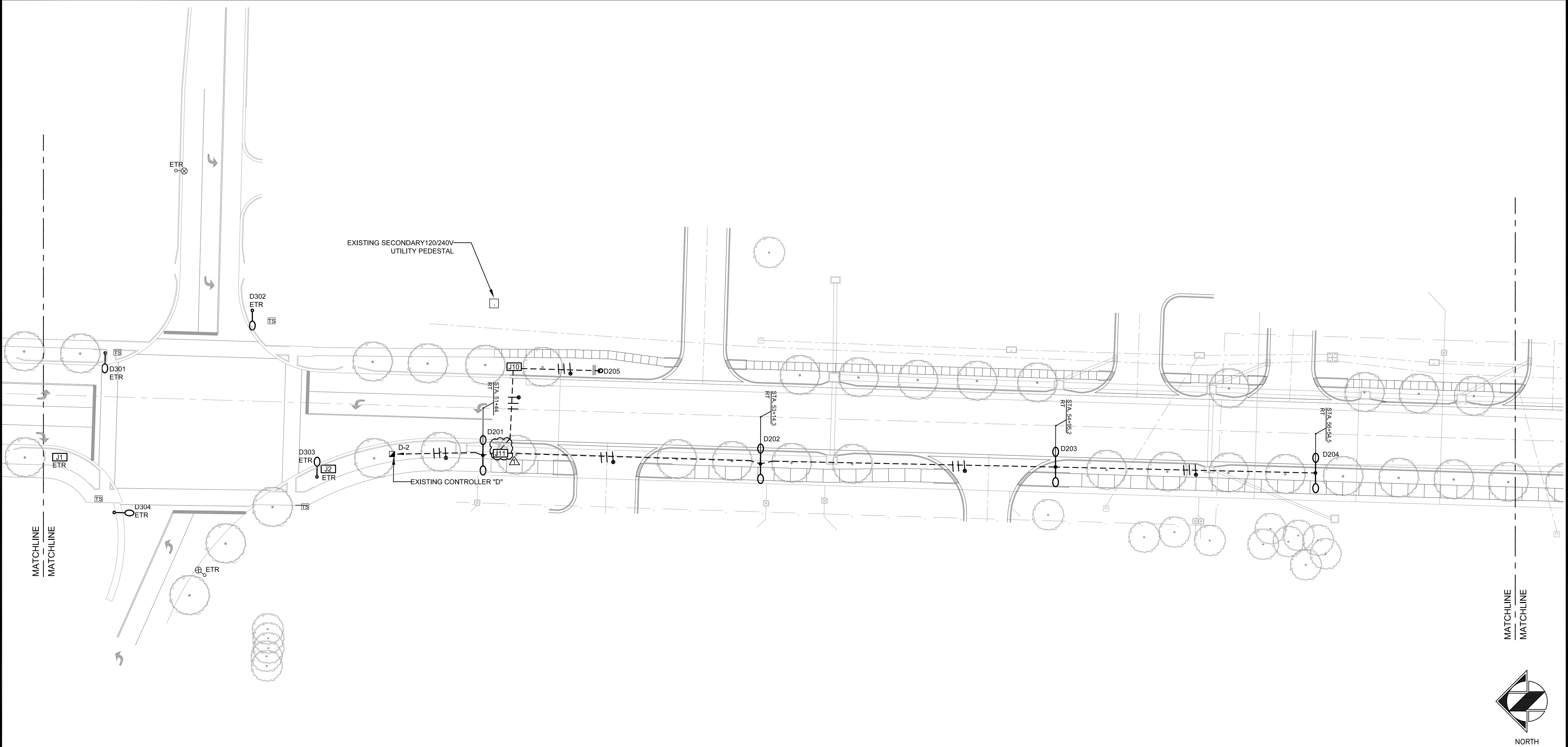
South Main Corridor Improvement Project (Phase II)
STP-4301 (104)
City of Maryville, Missouri

Date: 2023-06-22

ROADWAY LIGHTING
ELECTRICAL IMPROVEMENT
SCHEDULES

SE002


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1

MAIN STREET ROADWAY LIGHTING PLAN PARTIAL

ROADWAY LIGHTING GENERAL NOTES		ROADWAY LIGHTING KEY NOTES		ROADWAY LIGHTING DEMOLITION NOTES	
<p>A. RE: SHEET SE001 FOR CONSTRUCTION NOTES.</p> <p>B. REFER TO ELECTRICAL IMPROVEMENT SCHEDULES FOR ALL WIRE AND CONDUIT SIZES. REFER TO TRENCHING DETAILS FOR CONDUIT CROSSING ROADWAYS. ALL TRENCHES CROSSING ROADWAYS SHALL BE OUTSIDE OF CROSSWALK AREA.</p> <p>C. ALL WORK SHOWN ON PLANS MUST BE CONSTRUCTED REGARDLESS OF QUANTITIES SHOWN. ALL WORK PAID AS LUMP SUM.</p>		<p>1 NEW 100 AMP, 240/120 V, 1PH., 4 CKT LIGHTING CONTROLLER PER EQUIPMENT LIST. FIELD LOCATE FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.</p> <p>2 (1) 3" EMPTY CONDUIT WITH PULLSTRING TO UTILITY POINT OF CONNECTION (POC). ALL ELECTRICAL EQUIPMENT MUST BE IN THE CITY'S RIGHT OF WAY. THE TRANSFORMER AND SECONDARY DROP MUST BE IN A UTILITY EASEMENT. COORDINATE EXACT LOCATION OF POC AND LIGHTING CONTROLLER WITH EVERGY PRIOR TO START OF PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH EVERGY ALL UTILITY UPGRADES TO PROVIDE THE SERVICES INDICATED. RE: DETAILS FOR ADDITIONAL UTILITY CONNECTION INFORMATION.</p> <p>3 LUMINAIRE ON SHARED TRAFFIC SIGNAL POLE. CONDUIT AND WIRE IN POLE PROVIDED AND INSTALLED BY TRAFFIC SIGNAL CONTRACTOR. REFER TO TRAFFIC SIGNAL WIRING DIAGRAMS FOR CONDUIT AND WIRE INFORMATION AND QUANTITY.</p> <p>4 SHARED TRAFFIC SIGNAL PULLBOX PROVIDED AND INSTALLED BY OTHERS. EC SHALL PROVIDE AND INSTALL CIRCUIT BETWEEN LUMINAIRES AND TO CONTROLLER IN CONDUIT PROVIDED AND INSTALLED BY TRAFFIC SIGNAL CONTRACTOR.</p> <p>5 NEW 100 AMP, 240/120 V, 1PH., 4 CKT LIGHTING CONTROLLER PER EQUIPMENT LIST. FIELD LOCATE FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.</p>		<p>6 INGRADE JUNCTION BOX FOR FUTURE SIGNAGE LIGHTING CIRCUIT. COIL 3FT OF EXTRA CONDUCTORS IN BOX.</p> <p>GENERAL DEMOLITION NOTE: REMOVE EXISTING ROADWAY LIGHTING ALONG MARYVILLE MAIN STREET CORRIDOR BETWEEN STATION LINES 10+00 AND 51+50. PROVIDE CONSTRUCTION SEQUENCING SO THAT THE ROADWAY REMAINS ILLUMINATED AT ALL TIMES. ALL EXISTING ROADWAY LIGHTING TO BE REMOVED SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED AFTER NEW LIGHTING IS INSTALLED AND FULLY OPERATIONAL. COORDINATE RELOCATION OF POLES WITH THE CITY OF MARYVILLE.</p> <p>D1 REMOVE EXISTING POLE, LUMINAIRE, ARM, FOUNDATION AND ASSOCIATED CONDUIT AND WIRE. RETURN LUMINAIRE ASSEMBLY TO CITY OF MARYVILLE.</p> <p>D2 REMOVE EXISTING LUMINAIRE AND ARM FROM WOOD POLE.</p> <p>D3 RELOCATE EXISTING POLE, LUMINAIRE AND ARM TO NEW LOCATION NOTED WITH "XN". IF CIRCUIT IS UNDERGROUND, INTERCEPT EXISTING CIRCUIT IN INGRADE JUNCTION BOX AND EXTEND CONDUIT AND WIRE TO NEW POLE LOCATION. IF CIRCUIT IS OVERHEAD, RELOCATE OVERHEAD CIRCUIT TO NEW POLE LOCATION. IF EXISTING POLE FOUNDATION IS HELIX, FOUNDATION MAY BE REMOVED AND RE-USED IF NOT DAMAGED IN TRANSFER.</p> <p>XR = REMOVE XL = EXISTING LOCATION. RELOCATE XN = NEW LOCATION ETR = EXISTING TO REMAIN</p>	



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SK Project No. 16-108
Design: JK
Checked: KV

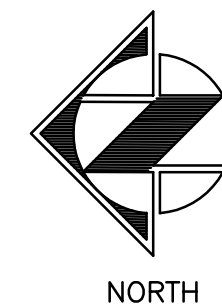
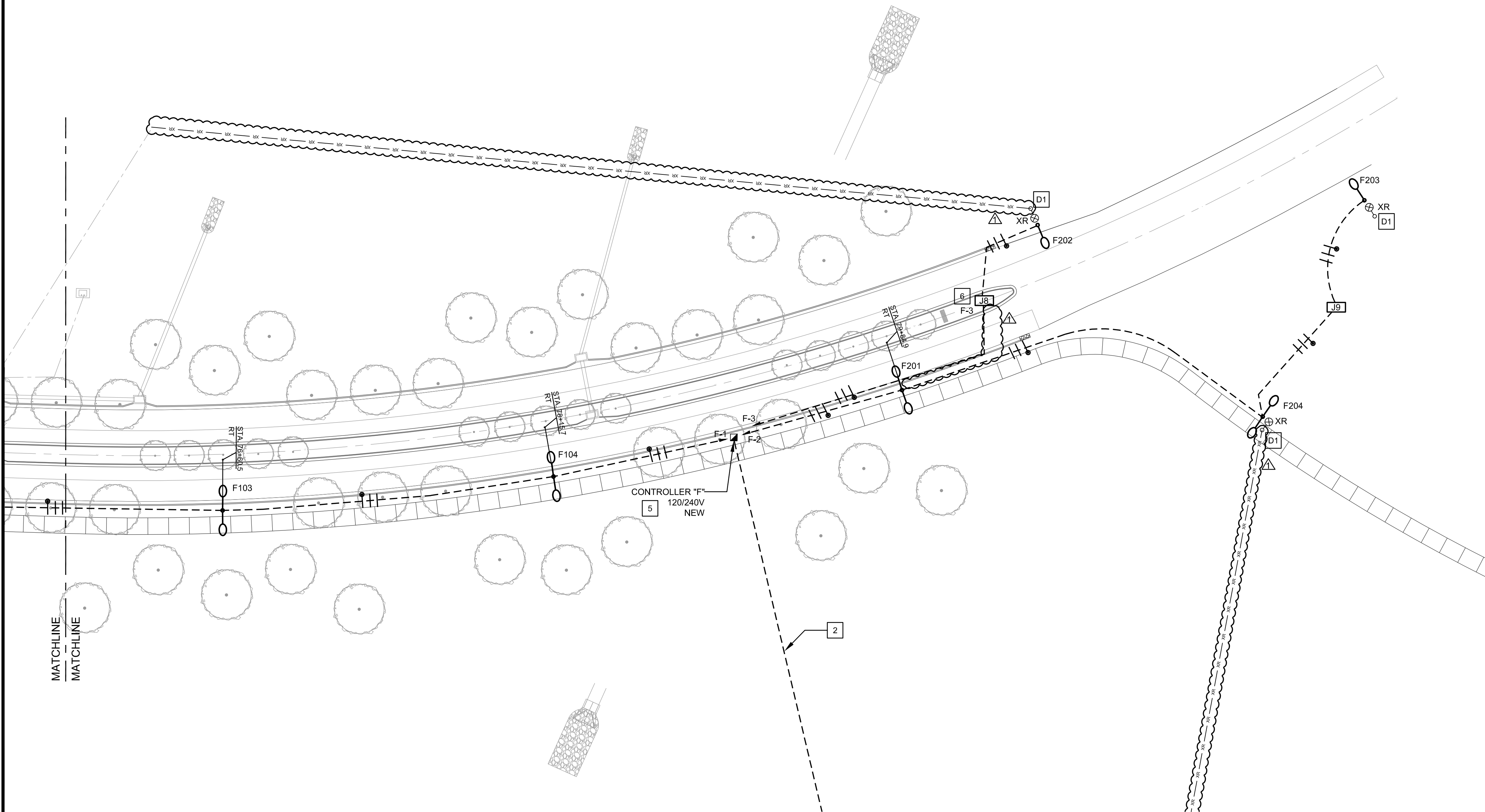
South Main Corridor Improvement Project (Phase II)
STP-4301 (104)
City of Maryville, Missouri

Issued for: BID SET

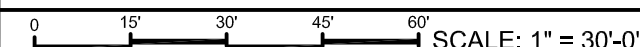
ROADWAY LIGHTING PLAN -
PARTIAL

SE201


Date: 2023-06-22

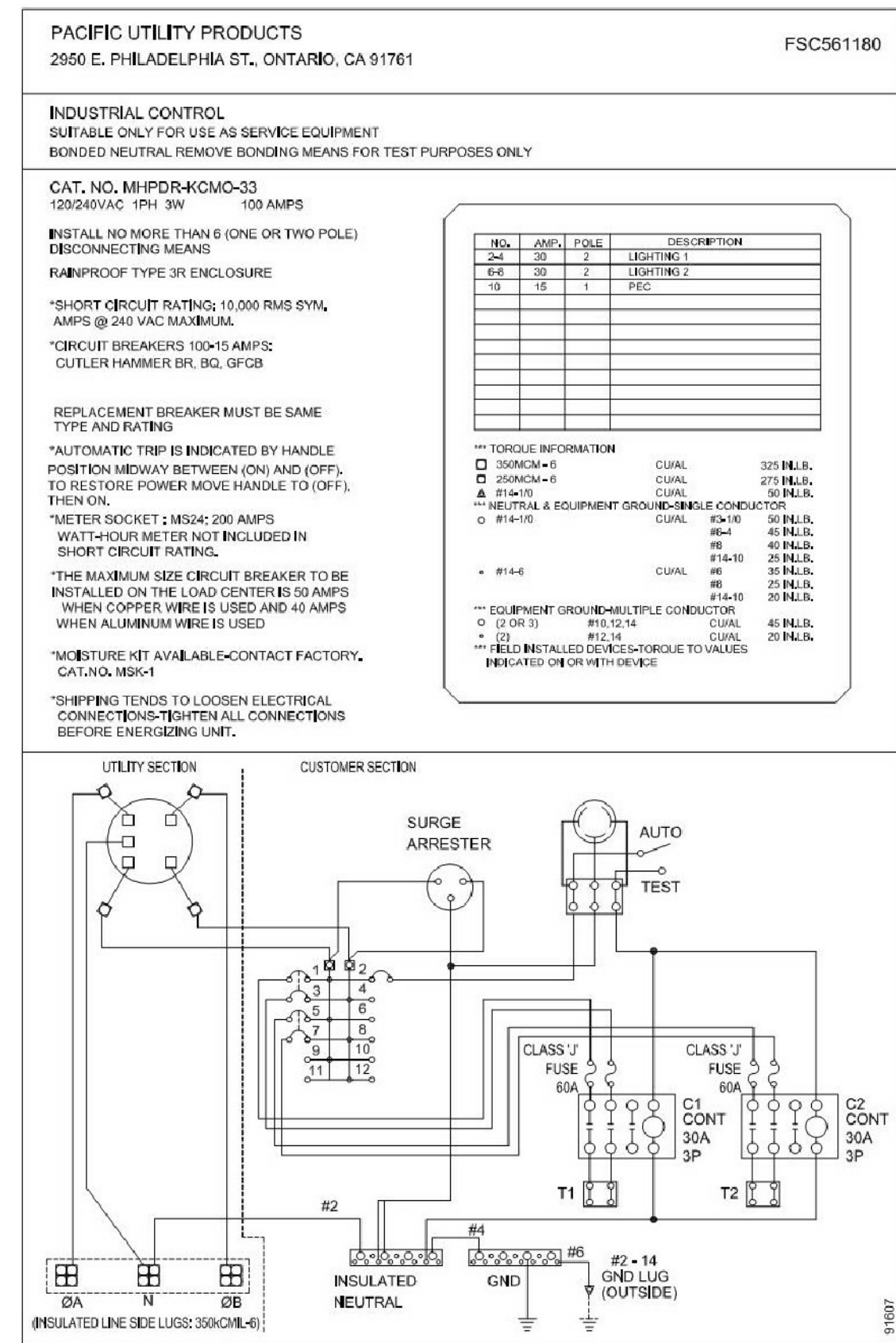
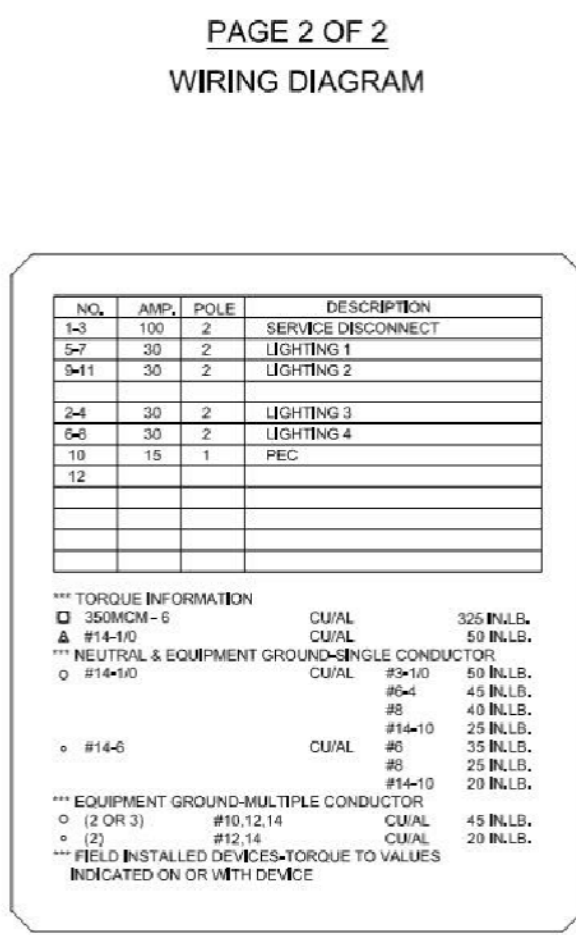
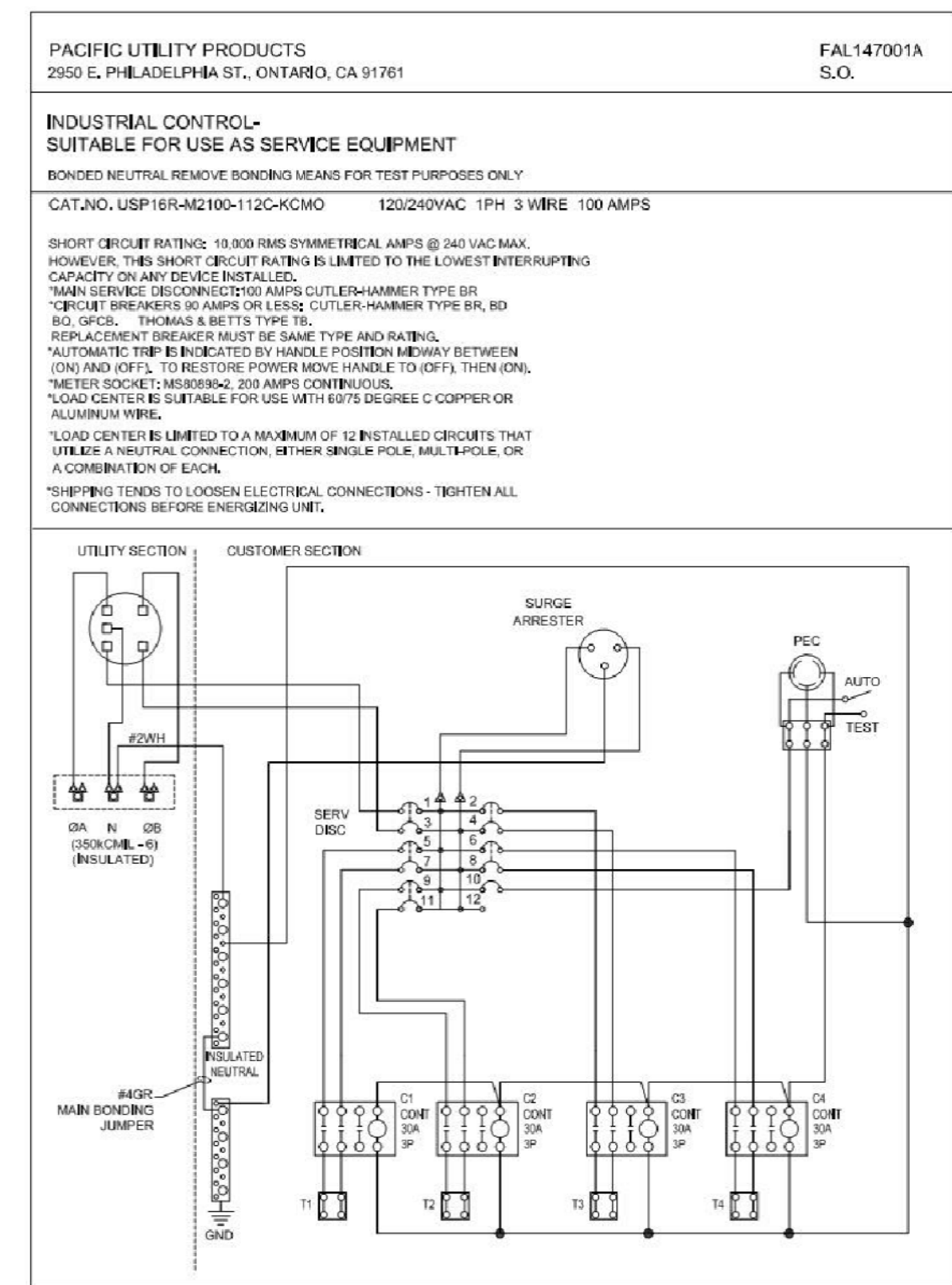
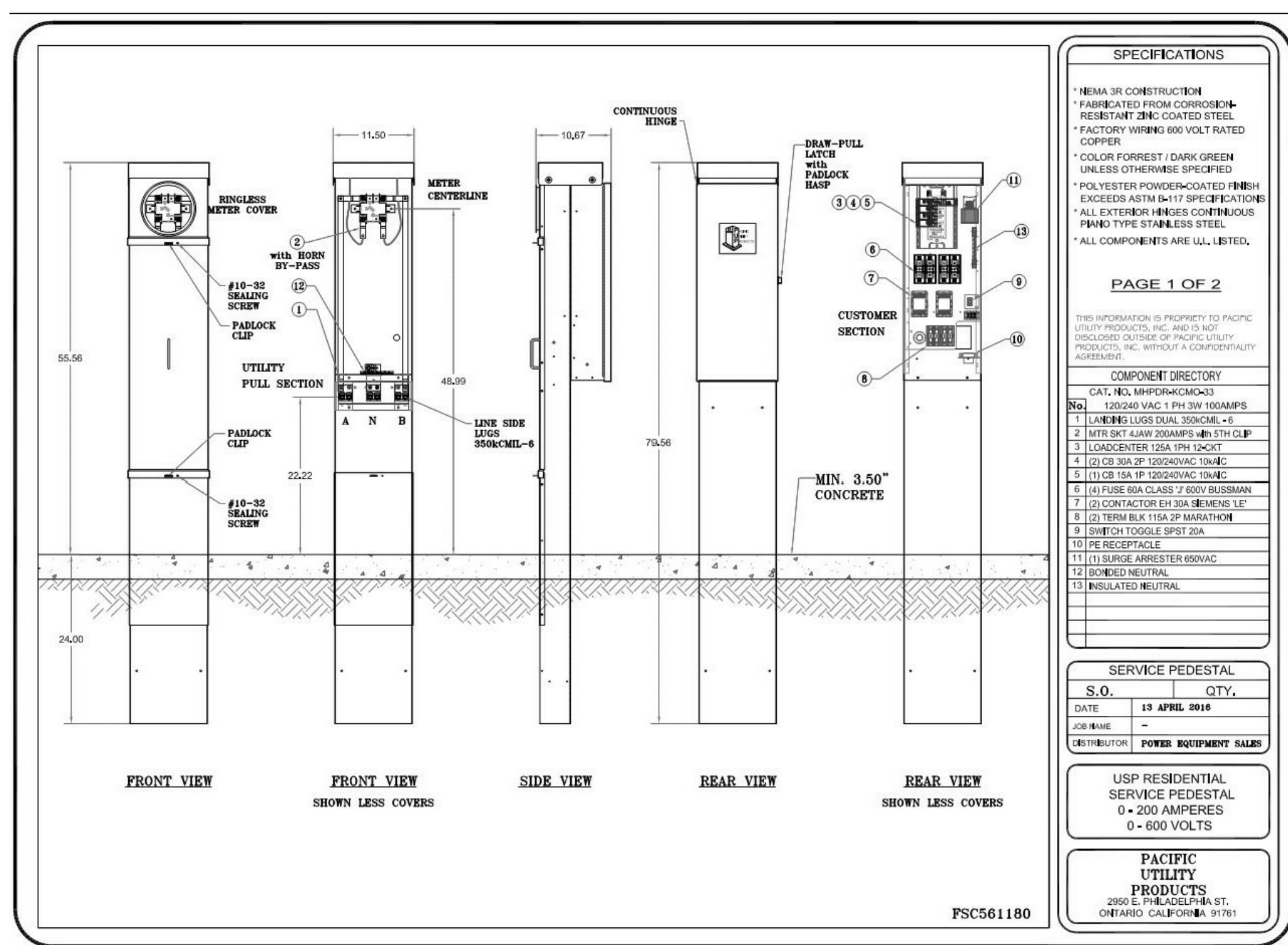
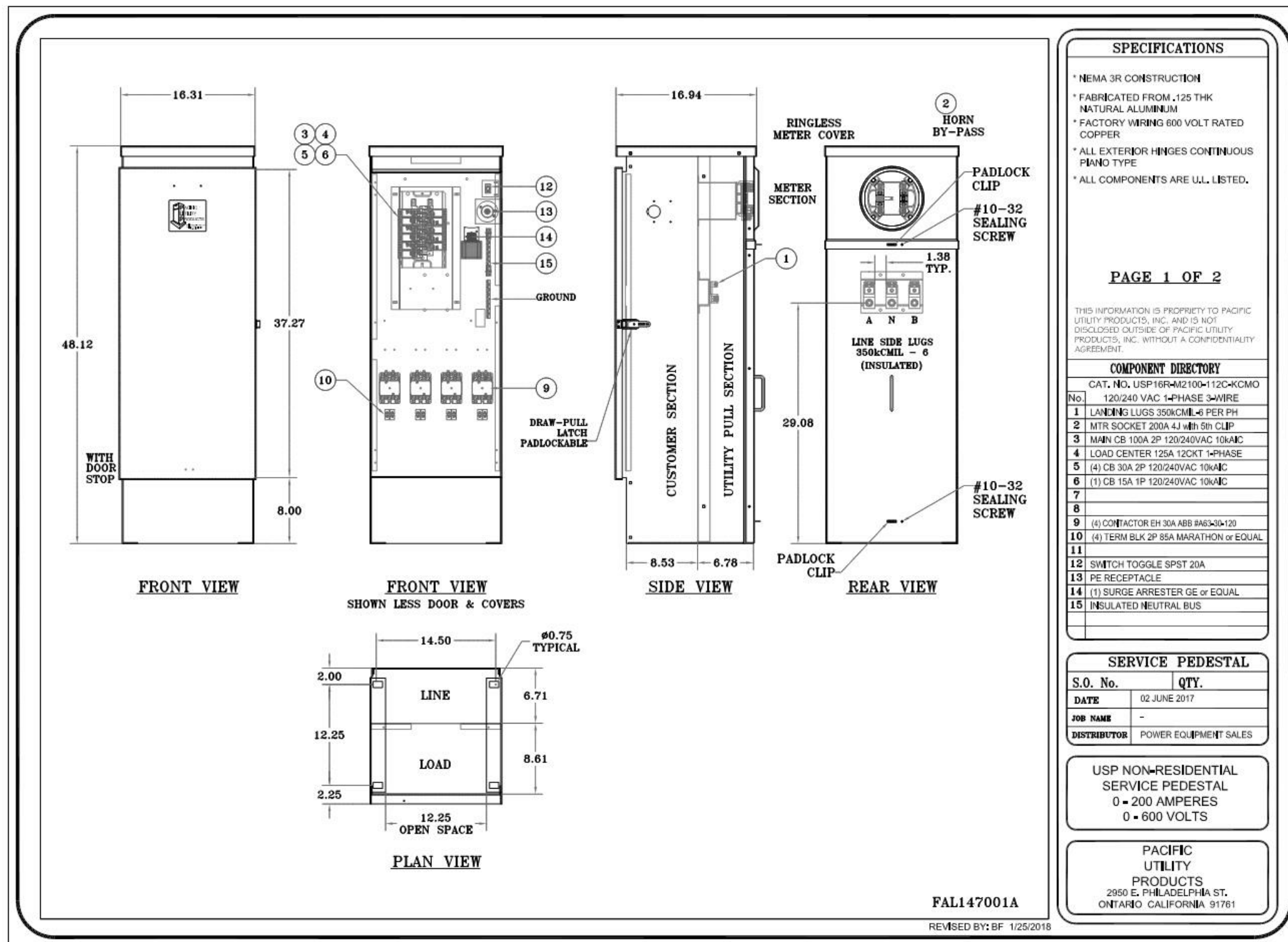


1	MAIN STREET ROADWAY LIGHTING PLAN PARTIAL
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ROADWAY LIGHTING GENERAL NOTES	ROADWAY LIGHTING KEY NOTES				ROADWAY LIGHTING DEMOLITION NOTES	
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 <p>SK Design Group, Inc.</p> <p>4600 College Boulevard, Suite 100 Overland Park, Kansas 66211 913-451-1818 http://www.skdg.com</p>	<u>Landscape Architect</u> Doug Pickert Indigo Design 8593 Timber Trails Drive De Soto, KS 66018 Tel: (913) 583-1370	<u>Survey</u> Adam Teel Midland Surveying, Inc. 3618 Main Weston, MO 64098 Tel: (816) 640-9948	<table border="1"> <thead> <tr> <th>REV. NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>△</td> <td>8/1/2023</td> <td>ADDENDUM 2</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV. NO.	DATE	DESCRIPTION	△	8/1/2023	ADDENDUM 2																												<div style="float: left; width: 20%;"> SK Project No. 16-108 Design: JK Checked: KV </div> <div style="text-align: center;"> <h1>South Main Corridor Improvement Project (Phase II)</h1> <h2>STP-4301 (104)</h2> <h3>City of Maryville, Missouri</h3> </div> <div style="clear: both;"></div>	<div style="text-align: center;">ROADWAY LIGHTING PLAN - PARTIAL</div>
	REV. NO.	DATE	DESCRIPTION																																			
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CONTROLLER SCHEDULES

EXISTING CONTROLLER		SERVICE: SECTIONALIZER BY UTILITY. RE: PLANS				
		CABINET VOLTAGE	CONTROL BREAKER	MAIN BREAKER	PANEL LOAD	14.1875 A
D	DESCRIPTION	240, 1P	15A	100A, 2P	CIRCUIT	CKT LOAD
CKT 1	PH1 ST LTG				30A, 2P	1425 VA
CKT 2	STREETLIGHTING				30A, 2P	1140 VA
CKT 3	PH1 ST LTG				30A, 2P	840 VA
CKT 4	SPARE				30A, 2P	0 VA

CONTROLLER	DESCRIPTION	SERVICE: TRANSFORMER BY UTILITY. RE: PLANS				
		CABINET VOLTAGE	CONTROL BREAKER	MAIN BREAKER	PANEL LOAD	11.875 A
					CIRCUIT	CKT LOAD
CKT 1	STREETLIGHTING	240, 1P	15A	100A, 2P	30A, 2P	1140 VA
CKT 2	STREETLIGHTING				30A, 2P	1710 VA

CONTROLLER	DESCRIPTION	SERVICE: POLE BY UTILITY. RE: PLANS				
		CABINET VOLTAGE	CONTROL BREAKER	MAIN BREAKER	PANEL LOAD	11.375 A
		240, 1P	15A	100A, 2P	CIRCUIT	CKT LOAD
F	STREETLIGHTING				30A, 2P	1140 VA
CKT 1	STREETLIGHTING				30A, 2P	990 VA
CKT 3	STREETLIGHTING/SIGNAGE				30A, 2P	600 VA
CKT 4	SPARE				30A, 2P	0 VA

2 4-CIRCUIT CONTROLLER DETAIL

1 2-CIRCUIT CONTROLLER DETAIL



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SE303