

ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Upgrade Inner Campground Utilities
Missouri State Fairgrounds
Sedalia, Missouri
PROJECT NO. F1905-01

Bid Opening Date is CHANGED: 1:30 PM, Thursday, October 24, 2019 (CHANGED)

Bidders are hereby informed that the Construction Plans and/or Specifications are modified as follows:

Revised Bid Form is attached. Bidders must use the Bid Form marked **REVISED PER ADDENDUM NO. 1** to bid this project.

SPECIFICATION CHANGES:

1. Section 001116 – Invitation For Bid
 - a. REVISE Paragraph 3.0-A as follows:
 - A. Until: 1:30 PM, Thursday, October 24, 2019
2. Section 004113 – Bid Form
 - a. The completion date in Paragraph 4.0-A is revised to June 1, 2020.
Bidders must use the attached revised Bid Form to bid this project.
3. Section 011000 – Summary of Work
 - a. REVISE Paragraph 1.4-A.1 as follows:
 1. Work shall be substantially complete by June 1, 2020.

DRAWING CHANGES:

1. Sheet DC211
 - a. Revise text for removal of existing sewer dumps for sites 1-132. See attached revised drawing.
2. Sheet C511
 - a. Add pipe schedule for typical bollard on Detail 9. See attached revised drawing.
3. Sheet C513
 - a. Revise pipe material for water service riser on Detail 1.
 - b. Add transition coupling from PEX to Type K Copper on Detail 1.
See attached revised drawing.
4. Sheet DE113
 - a. Revise Demolition Plan Notes ED007 and ED010. See attached revised drawing.
5. Sheet E111
 - a. Revise New Work Plan Note EP012. See attached revised drawing.

6. Sheet E512
 - a. Added Detail 4, Panelboard Support Detail. See attached revised drawing.
7. Sheet E513
 - a. Added Typical Transformer - Sectionalizer Detail. See attached revised drawing.

GENERAL COMMENTS:

1. The Pre-Bid Meeting was held October 9, 2019 followed by a walk-through of the site. The Pre-Bid Meeting sign-in sheet is attached.
2. Bidders needing additional site inspection should contact Jason Moore at 660-530-5617 to schedule a time.
3. Please contact Kelly Copeland, Contract Specialist, at 573-522-2283 or kelly.copeland@oa.mo.gov for questions about bidding procedures and MBE\WBE\SDVE goals and submittal requirements.
4. The deadline for technical questions was Monday, October 14, 2019.
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
7. Current Planholders list is available online at: <https://www.adsplanroom.net/jobs/184/plan-holders/f1905-01-upgrade-inner-campground-utilities-missouri-state-fairgrounds>
8. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65201, 573-446-7768 to order official plans and specifications.

ATTACHMENTS:

1. Pre-Bid Meeting Sign-In Sheet
2. Section 004113 – Bid Form
3. Sheet DC211
4. Sheet C511
5. Sheet C513
6. Sheet DE113
7. Sheet E111
8. Sheet E512
9. Sheet E513

October 15, 2019

END ADDENDUM NO. 1

MEETING ATTENDANCE RECORD

Project: F1903-01 / F1905-01
 Client: Mo State Fairgrounds
 RE: Pre - Bid Meeting

Antella Project No.: _____
 Meeting Date: 10/9/2019
 Meeting Time: 9 AM
 Meeting Location: Sedalia, MO

NAME	COMPANY	TELE/FAX	EMAIL
<u>Scott Jensen</u>	<u>Antella</u>	<u>816-421-0950</u>	<u>sjensen@antella-inc.com</u>
<u>Tim Burfeind</u>	<u>SH Design</u>	<u>913-451-1818</u>	<u>tburfeind@shdg.com</u>
<u>JASON MOORE</u>	<u>MSF</u>	<u>660-281-6333</u>	<u>Jason.Moore@mda.mo.gov</u>
<u>Jared Cook</u>	<u>OA/FMDC</u>	<u>573-690-6733</u>	<u>jared.cook2@oa.mo.gov</u>
<u>Randy Duncan</u>	<u>OA/FMDC</u>	<u>573-612-4395</u>	<u>randy.duncan@oa.mo.gov</u>
<u>Doug Haley</u>	<u>MEC</u>	<u>660-287-5555</u>	<u>doug.haley@melect.com</u>
<u>Oscar Ballard</u>	<u>MEC</u>	<u>660-525-2712</u>	<u>Oscar.Ballard@melect.com</u>
<u>Duane Points</u>	<u>MEC</u>	<u>660-287-5145</u>	<u>duane.points@melect.com</u>
<u>Zack Kallefleiter</u>	<u>All Pro Electrical</u>	<u>660-747-0090</u>	<u>zkallefleiter@allproelectrical.com</u>
<u>Sam Shippy</u>	<u>All Pro</u>	<u>660-909-3900</u>	_____
<u>Jimmy Coffland</u>	<u>All Pro Electrical</u>	<u>660-909-6317</u>	<u>Jimmy.Coffland@gmail.com</u>
<u>Eric Friga</u>	<u>Friga Construction</u>	<u>417-887-7134</u>	<u>eric@frigainc.com</u>

MEETING ATTENDANCE RECORD

Project: _____

Antella Project No.: _____

Client: _____

Meeting Date: _____

Meeting Time: _____

RE: _____

Meeting Location: _____

<u>NAME</u>	<u>COMPANY</u>	<u>TELE/FAX</u>	<u>EMAIL</u>
<u>STEVE MCKAY</u>	<u>RYAN CONSTRUCTION CO</u>	<u>573-814-2556</u>	<u>SMCKAY79@EMBARCADERO.COM</u>
<u>Mike Kroeger</u>	<u>Ace Pro Contracting</u>	<u>660-620-5176</u>	<u>aceprohvac@yahoo.com</u>
<u>Drew Wilde</u>	<u>Pro-Prost JV (SDVE)</u>	<u>(573) 305-6711</u>	<u>estimating@prostbuilders.com</u>
<u>LEROY ROBERTS</u>	<u>REINHOLD ELECTRIC</u>	<u>573-5399357</u>	<u>LEROY@REINHOLD.ELECTRIC.COM</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

STATE OF MISSOURI

Bid Time: 1:30 PM

Bid Date: _____

SECTION 004113 - BID FORM

REVISED PER ADDENDUM NO. 1

1.0 BID:

A. From:

(Bidder's Name)

herein after called the "**Bidder**".

B. To:

Director, Division of Facilities Management, Design and Construction
Room 730, Harry S Truman State Office Building
301 West High Street
Jefferson City, Missouri 65102

herein after called the "**Owner**."

C. For:

Upgrade Inner Campground Utilities
Missouri State Fairgrounds
Sedalia, Missouri

D. Project Number:

F1905-01

hereinafter called the "**Work**."

E. Documents:

The undersigned, having examined and being familiar with the local conditions affecting the work and with the complete set of contract documents, including the Drawings, the Invitation For Bid, Instructions To Bidders, Statement of Bidders Qualifications, General Conditions, Supplement to General Conditions, and the technical specifications, including: addenda number _____ through _____ hereby proposes to perform the Work for the following:

F. Bid Amount:

_____ Dollars (\$ _____)

G. Alternates: Alternate No. 1: Domestic water and electrical work for Inner Campground Sites 85-132. Included in this alternate are protective bollards. See Drawings for additional information.

\$ _____ Dollars (\$ _____).

Alternate No. 2: Domestic water and electrical work for Inner Campground Sites 1-84. Included in this alternate are protective bollards. See Drawings for additional information.

\$ _____ Dollars (\$ _____).

Alternate No. 3: Domestic water and electrical work for Inner Campground, Purveyor Lot. Included in this alternate are protective bollards. See Drawings for additional information.

\$ _____ Dollars (\$ _____).

2.0 MBE/WBE/SDVE PERCENTAGE OF PARTICIPATION PROJECT GOALS:

This project's specific goals are: **MBE 10.00%** **WBE 10.00%**, and **SDVE 3.00%**. NOTE: Only MBE/WBE firms certified by a State of Missouri public entity, and SDVE(s) meeting the requirements of Section 34.074, RSMo, and 1 CSR 30-5.010, as of the date of bid opening, can be used to satisfy the MBE/WBE/SDVE participation goals for this project.

3.0 BID BOND

- A. Accompanying the bid is: ___ 5% Bid Bond or ___ Cashier's Check/Bank Draft for 5% of base bid that is payable without condition to the Division of Facilities Management, Design and Construction, State of Missouri, as per Article 5 of "Instructions To Bidders".

4.0 CONTRACT COMPLETION TIME AND LIQUIDATED DAMAGES

- A. **The Bidder agrees to complete the work by June 1, 2020.** This includes ten (10) working days for document mailing and processing. The Bidder further agrees to pay to, or allow the State as liquidated damages the sum of \$1,000 for each working day thereafter that the entire work is not substantially complete.

5.0 ATTACHMENTS TO BID:

004336	Proposed Subcontractors
004337	MBE/WBE/SDVE Compliance Form
004338	MBE/WBE/SDVE Joint Venture Form
004339	MBE/WBE/SDVE Waiver Form
004340	SDVE Business Form
004541	Affidavit of Work Authorization

6.0 BIDDER'S CERTIFICATIONS:

- A. The Bidder agrees to pay not less than the hourly rate of wages as determined by the Department of Labor and Industrial Relations, State of Missouri, in accordance with Sections 290.210 to 290.340, RSMo.
- B. The Bidder hereby certifies that this bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm, or corporation, and is not submitted in conformity with any agreement or rules of any group, association or corporation;
That he/she has not directly or indirectly induced or solicited any other bidder to put in a false or sham proposal;
That he/she has not solicited or induced any person, firm or corporation to refrain from submitting a bid;
That he/she has not sought by collusion or otherwise to obtain for him/herself any advantage over any other bidder or over the Owner.
That he/she will not discriminate against any employee or applicant for employment because of race, creed, color or national origin in the performance of the work.
That he/she certifies that he/she has based this proposal upon an official /complete set of contract documents, either obtained from the Owner after Bidder placed himself/herself on the bidders' list or from a secondary source known to the Bidder to have provided a complete and accurate set of contract documents, provided that if Bidder received the contract documents from such a secondary source, any errors or omissions in the contract documents shall be interpreted and construed in favor of the Owner and against the Bidder. This proposal is also based upon the conditions within Article 1.2 of the General Conditions.
That he/she certifies that he/she will comply with the provisions of Sections 285.230-234, RSMo, regarding transient employers.
That he/she has enrolled and is and will continue to participate in a federal work authorization program in accordance with Sections 285.525 and 285.530, RSMo for the duration of this contract.

7.0 CONTACT INFORMATION (mandatory for all bidders):

Sole Proprietorship/General Partnership LLC Limited Partnership Corporation Joint Venture

Business Name: _____

Address: _____

Telephone: _____ Fax Number: _____

Federal ID Number: _____ or Social Security Number: _____

Missouri Business Charter Number: _____ (or provide the proper certificate from the Secretary of State)

Contact Name: _____ Contact email: _____

8.0 SIGNATURES:

FOR SOLE PROPRIETORSHIPS/GENERAL PARTNERSHIPS ONLY:

Sole Proprietor's Name (printed) Name each general partner: _____

Today's Date: _____

I, _____, being the sole proprietor/general partner of (name of business) _____ (and if the name of said business is other than my legal name, having filed a Registration of Fictitious Name with the Missouri Secretary of State in order to allow me to use such name in connection with my business, as provided by Section 417.200, RSMo, et seq.), do hereby submit this bid and agree to be bound unto the State of Missouri as herein provided (if a general partnership, all partners must sign below).

Signature: _____ Signature: _____

Signature: _____ Signature: _____

FOR LIMITED LIABILITY COMPANIES ONLY:

_____ today's date _____ State(s) of organization: _____
Manager's (or Managing Member's) Name (printed)

I, _____, being the Manager (or Managing Member) of (full legal name of limited liability company from Articles of Organization) _____, and being duly authorized to act as herein provided on behalf of said limited liability company, do hereby submit this bid on behalf of said limited liability company and agree that said limited liability company shall be bound unto the State of Missouri as herein provided.

Signature: _____

FOR LIMITED PARTNERSHIPS/LIMITED LIABILITY PARTNERSHIPS/LIMITED LIABILITY LIMITED PARTNERSHIPS ONLY:

_____ today's date: _____ State(s) of organization: _____
General/Managing Partner's Name (printed)

I, _____, being the General Partner/Managing Partner of (full legal name of limited partnership/limited liability partnership/limited liability limited partnership from partnership agreement or Certificate of Limited Partnership) _____, and being duly authorized to act as herein provided on behalf of said limited partnership/limited liability partnership/limited liability limited partnership, do hereby submit this bid on behalf of said limited partnership/limited liability partnership/limited liability limited partnership and agree that said limited partnership/limited liability partnership/limited liability limited partnership shall be bound unto the State of Missouri as herein provided.

Signature: _____

FOR CORPORATIONS ONLY:

President's Name (printed) Secretary's Name (printed) Today's date
State(s) of incorporation: _____

I, _____, being the (officer or title) _____ of (full legal name of corporation, from Articles of Incorporation) _____, and being duly authorized by the Board of Directors of said corporation to act as herein provided on behalf of said corporation, do hereby submit this bid on behalf of said corporation and agree that said corporation shall be bound unto the State of Missouri as herein provided.

Signature: _____ Attested by: _____
President Corporate Secretary

The President should sign as the bidder. If the signator is other than the corporate president, the bidder must provide satisfactory evidence that the signator has the legal authority to bind the corporation.

FOR ASSOCIATIONS/JOINT VENTURES: If multiple business entities/individuals are bidding collectively as an association or joint venture, each business entity/individual bidding as part of the association or joint venture shall sign this bid in the above sections relevant to the form that such business entity or individual does business, and the bidder shall duplicate the necessary number of signature pages so that all members of the association or joint venture shall sign this bid. If a name is adopted for use by the association or joint venture, the association or joint venture shall file a Registration of Fictitious Name with the Missouri Secretary of State in order to use such name in connection with the association or joint venture, as provided by Section 417.200, RSMo, *et seq.*



MEP Engineer:
Antella
CONSULTING ENGINEERS, INC.

1600 Genessee, Suite 260 Kansas City, Missouri 64102
Tel: 816-421-0950 Fax: 816-249-2439
email: antella@antella-inc.com

License Name: Antella Consulting Engineers, Inc.
Profession Name: Professional Engineering Corporation
License Number: E-2005013590

Civil Engineer:
SK
SK Design Group, Inc.

Civil Engineers
4600 College Blvd., Suite 100
Overland Park, KS 66211
(913) 451-1818
fax (913) 451-7599
www.skdg.com

License Name: SK Design Group, Inc.
Profession Name: Professional Engineering Corporation
License Number: E-1274-F

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
AGRICULTURE

UPGRADE WEST
CAMPGROUND UTILITIES

MISSOURI STATE
FAIRGROUNDS
2503 W 16TH STREET
SEDALIA, MISSOURI 65301

PROJECT # F1903-01
SITE # 1501
FACILITY # 3511501141

REVISION: **ADD. 1**
DATE: **10/11/2019**
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/29/2019

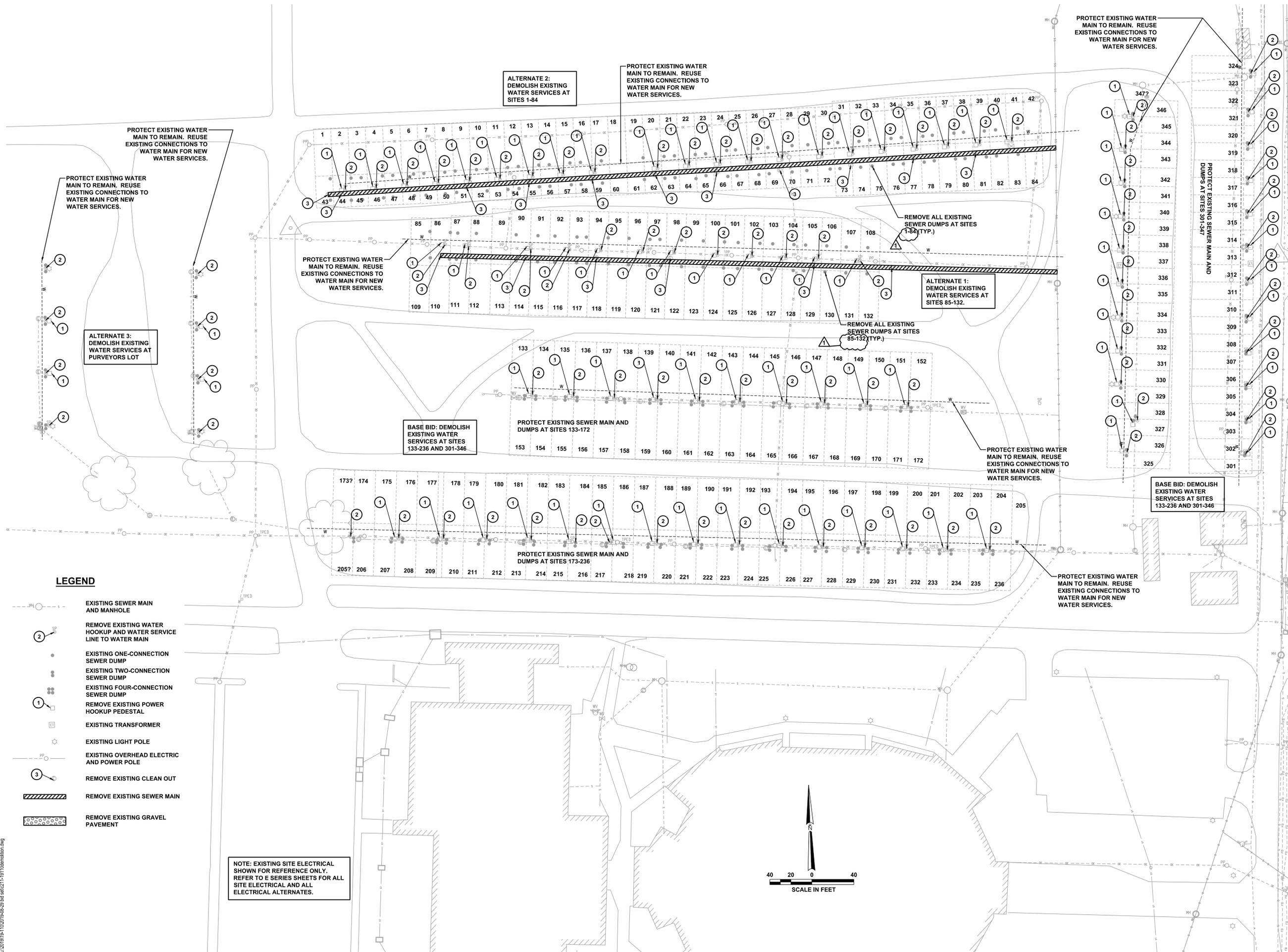
CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
**SITE DEMOLITION
PLAN - INNER
CAMPGROUND**

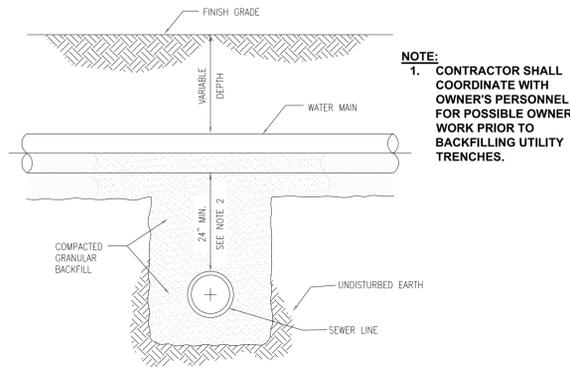
SHEET NUMBER:

DC211

SHEET 4 OF 25
08/29/2019



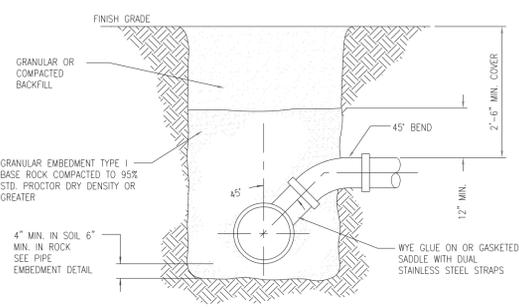
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NOTE:
1. CONTRACTOR SHALL COORDINATE WITH OWNER'S PERSONNEL FOR POSSIBLE OWNER WORK PRIOR TO BACKFILLING UTILITY TRENCHES.

- NOTES:**
- SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION THAT IS NO LESS THAN 24 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN.
 - THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER LINE CROSSES BELOW THE WATER LINE. CROSSINGS IN WHICH THE SEWER LINE IS ABOVE THE WATER LINE WILL ONLY BE APPROVED ON A CASE BY CASE BASIS.
 - THE CROSSING SHALL BE ARRANGED SO THAT THE ENDS OF A FULL JOINT OF PIPE WILL BE EQUIDISTANT FROM THE WATER MAIN AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
 - IF THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND SEWER MAIN IS LESS THAN 18 INCHES, THE SEWER MAIN SHALL BE D.I.P. OR PRESSURE RATED PVC PIPE WITH A PRESSURE RATING THAT IS EQUAL TO OR GREATER THAN THE WATER MAIN. THE D.I.P. OR PRESSURE RATED P.V.C. MUST BE EXTENDED A DISTANCE TO FEET ON BOTH SIDES OF THE WATER MAIN. THE TRANSITION BETWEEN PIPE MATERIALS SHALL BE ACCOMPLISHED WITH A RESTRAINED MECHANICAL JOINT OR FITTING. FLEXIBLE TYPE (FERROD) FITTINGS ARE NOT ACCEPTABLE.
 - FORCE MAIN SEWER LINE AND WATER LINE CROSSINGS SHALL BE REVIEWED ON A CASE BY CASE BASIS.

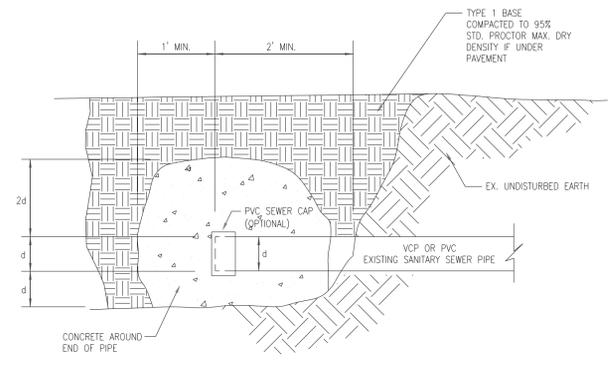
1 GRAVITY SEWER AND WATER LINE CROSSING
Not to Scale



NOTE:
VCP PIPES SHALL NOT BE TAPPED. REPLACE SECTION OF VCP WITH PVC AND FITTING.

STANDARD SERVICE CONNECTION
NOT TO SCALE

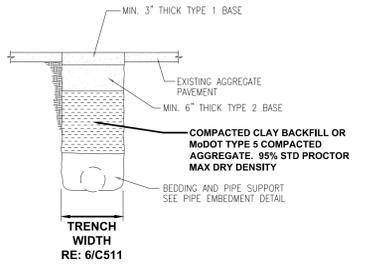
2 STANDARD SERVICE CONNECTION
Not to Scale



NOTE:
CONTRACTOR SHALL ENSURE SEWER LINE BEING ABANDONED IS NO LONGER IN SERVICE

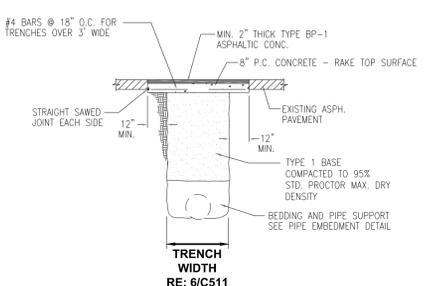
EXISTING SANITARY SEWER ABANDONMENT DETAIL
NOT TO SCALE

3 EXISTING SANITARY SEWER ABANDONMENT DETAIL
Not to Scale



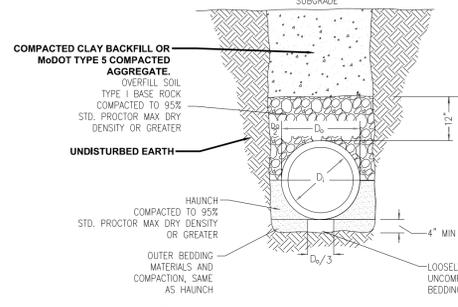
NOTE:
1. CONTRACTOR SHALL COORDINATE WITH OWNER'S PERSONNEL FOR POSSIBLE OWNER WORK PRIOR TO BACKFILLING UTILITY TRENCHES.

4 EXISTING AGGREGATE PAVEMENT PATCH
Not to Scale



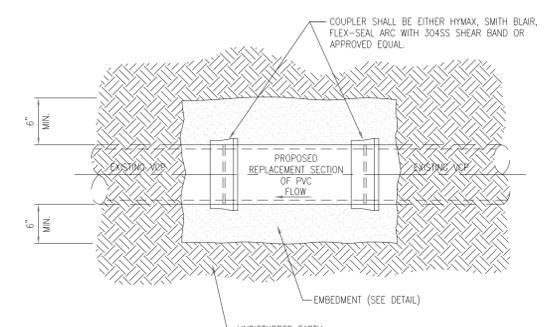
NOTES:
1. CONCRETE SHALL BE CLASS A PER PROJECT SPECIFICATIONS.
2. REINFORCING STEEL SHALL BE GRADE 60.
3. CONTRACTOR SHALL COORDINATE WITH OWNER'S PERSONNEL FOR POSSIBLE OWNER WORK PRIOR TO BACKFILLING UTILITY TRENCHES.

5 EXISTING ASPHALTIC PAVEMENT PATCH
Not to Scale



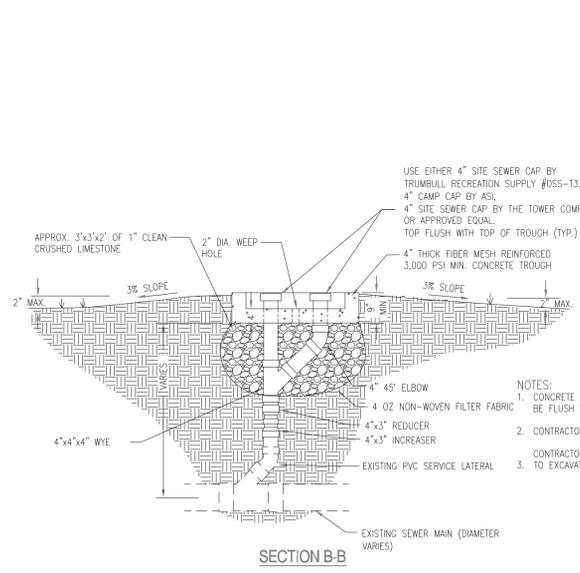
NOTE:
1. CONTRACTOR SHALL COORDINATE WITH OWNER'S PERSONNEL FOR POSSIBLE OWNER WORK PRIOR TO BACKFILLING UTILITY TRENCHES.

6 TYPICAL PIPE EMBEDMENT
Not to Scale



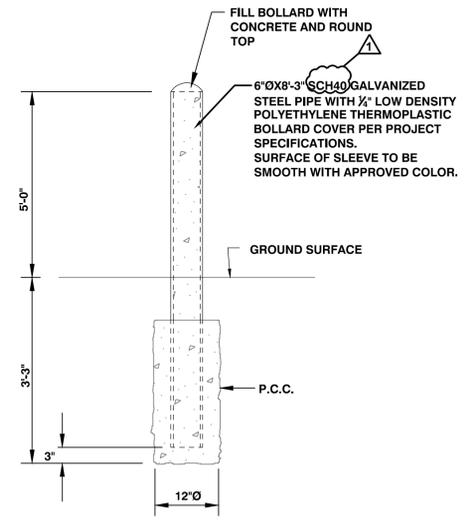
NOTE:
IF FLEX-SEAL OR FERROD COUPLERS ARE USED EMBEDMENT SHALL CONSIST OF FLOWABLE FILL 100 P.S.F. MAX.

7 VCP / PVC CONNECTION
Not to Scale



NOTES:
1. CONCRETE TROUGH SHALL HAVE A LIGHT BROOM FINISH AND SHALL BE FLUSH WITH FINISH GRADE AFTER BACKFILL.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS.
3. CONTRACTOR SHALL CONTACT 1-800-DIG-RITE 72 HOURS PRIOR TO EXCAVATION.

8 TYPICAL RV/VENDOR SERVICE CONNECTION DETAIL
Not to Scale



9 TYPICAL BOLLARD DETAIL
Not to Scale



MEP Engineer:



1600 Genesee, Suite 260 Kansas City, Missouri 64102
Tel: 816-421-0950 Fax: 816-249-2439
email: antella@antella-inc.com

Civil Engineer:



4600 College Blvd., Suite 100 Overland Park, KS 66211
(913)-451-1818 fax (913)-451-7599 www.skdg.com

License Name: SK Design Group, Inc.
Profession Name: Professional Engineering Corporation
License Number: E-1274-F

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
AGRICULTURE

UPGRADE INNER
CAMPGROUND UTILITIES

MISSOURI STATE
FAIRGROUNDS
2503 W 16TH STREET
SEDALIA, MISSOURI 65301

PROJECT # F1905-01
SITE # 1501
FACILITY # 3511501142

REVISION: **ADD. 1**
DATE: **10/11/2019**
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/29/2019

CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:

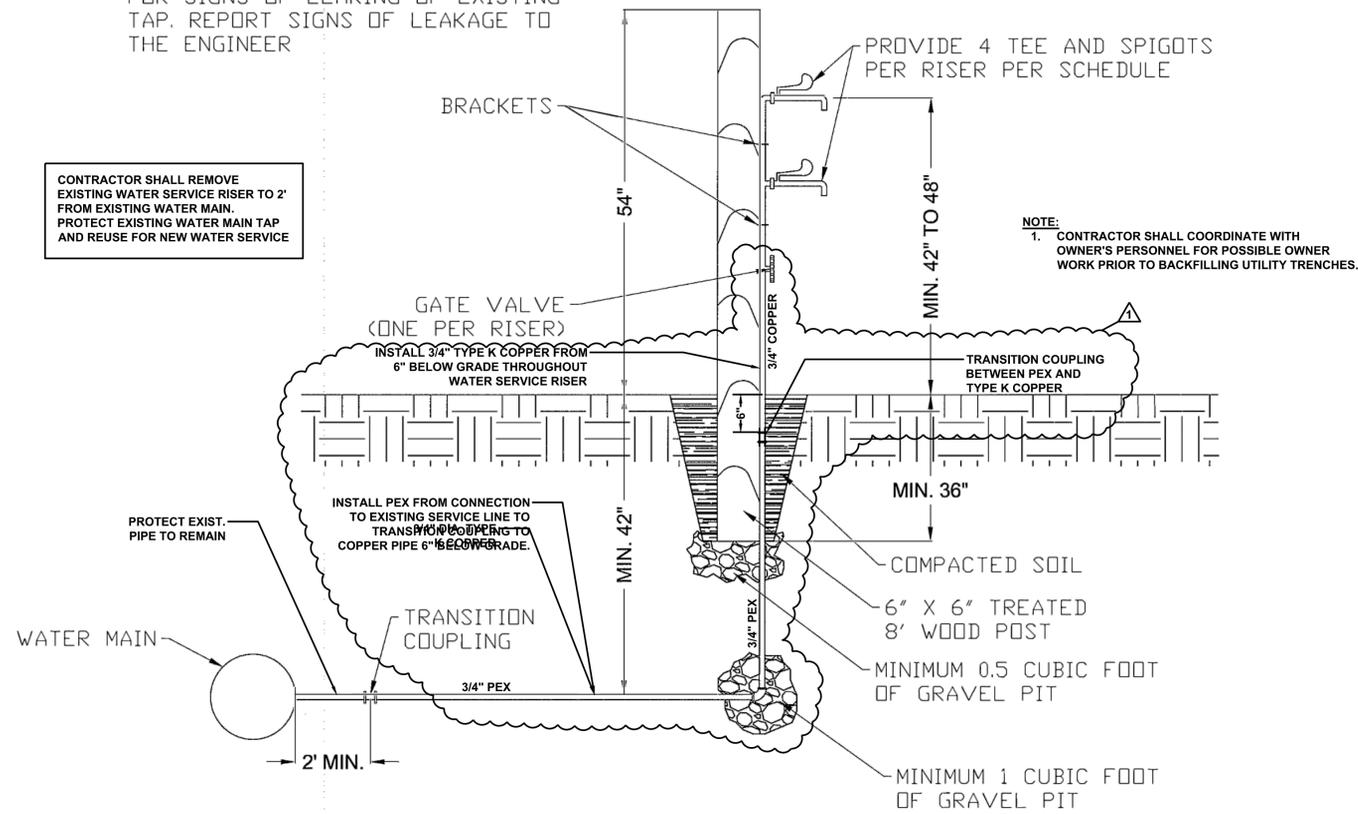
SITE DETAILS - 1

SHEET NUMBER:

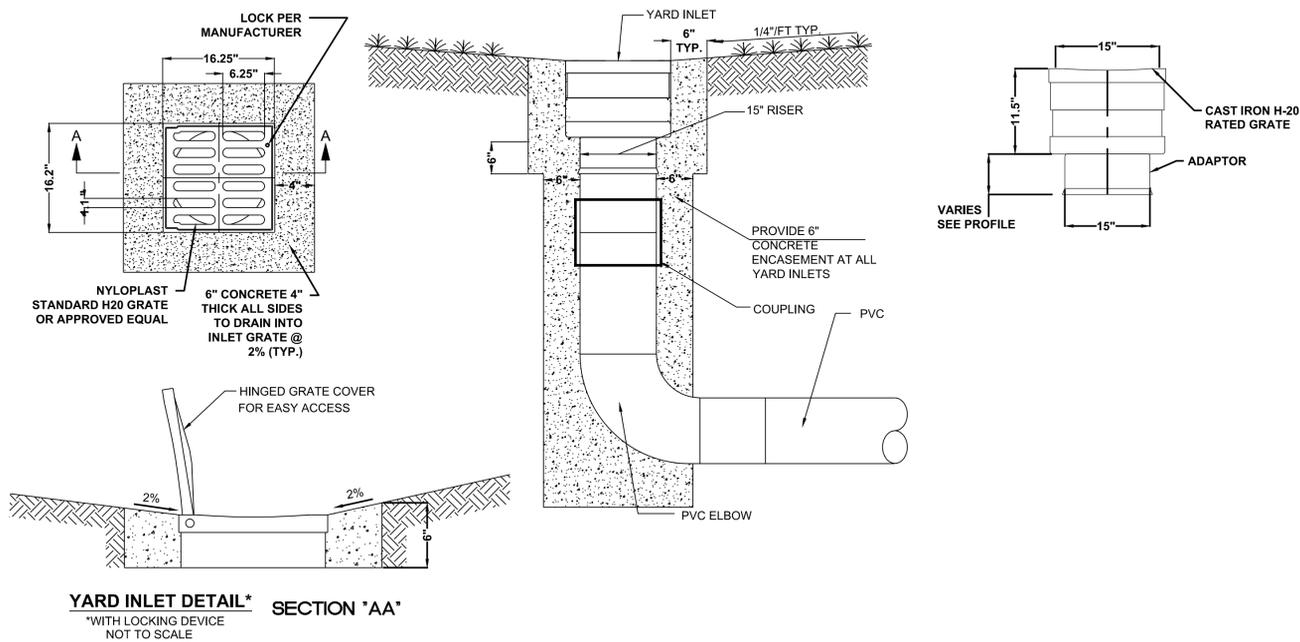
C511
SHEET 10 OF 25
08/29/2019

NOTE:
CONTRACTOR TO INSPECT AND
VERIFY THE TRENCH AND BEDDING
FOR SIGNS OF LEAKING OF EXISTING
TAP. REPORT SIGNS OF LEAKAGE TO
THE ENGINEER

CONTRACTOR SHALL REMOVE
EXISTING WATER SERVICE RISER TO 2'
FROM EXISTING WATER MAIN.
PROTECT EXISTING WATER MAIN TAP
AND REUSE FOR NEW WATER SERVICE



1 WATER SERVICE RISER
Not to Scale



2 YARD INLET DETAIL
Not to Scale



MEP Engineer:

Antella
CONSULTING ENGINEERS, INC.

1600 Genesee, Suite 260 Kansas City, Missouri 64102
Tel: 816-421-0950 Fax: 816-249-2439
email: antella@antella-inc.com

License Name: Antella Consulting Engineers, Inc.
Profession Name: Professional Engineering Corporation
License Number: E-2005013590

Civil Engineer:



SK Design Group, Inc.
Civil Engineers
4600 College Blvd., Suite 100
Overland Park, KS 66211
(913) 451-1818
fax (913) 451-7599
www.skdg.com

License Name: SK Design Group, Inc.
Profession Name: Professional Engineering Corporation
License Number: E-1274-F

OFFICE OF ADMINISTRATION
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DEPARTMENT OF
AGRICULTURE

UPGRADE INNER
CAMPGROUND UTILITIES

MISSOURI STATE
FAIRGROUNDS
2503 W 16TH STREET
SEDALIA, MISSOURI 65301

PROJECT # F1905-01
SITE # 1501
FACILITY # 3511501142

REVISION: **ADD. 1**
DATE: 10/11/2019
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/29/2019

CAD DWG FILE: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:

SITE DETAILS - 3

SHEET NUMBER:

C513

SHEET 12 OF 25
08/29/2019



MONICA SANTOYO SANTOS - ENGINEER
E-2000174546
MEP Engineer:



1600 Genesee, Suite 260 Tele 816-421-0950
Kansas City, Missouri 64102 Fax 816-249-2439
email: antella@antella-inc.com

License Name: Antella Consulting Engineers, Inc.
Profession Name: Professional Engineering Corporation
License Number: E-2005013590



License Name: SK Design Group, Inc.
Profession Name: Professional Engineering Corporation
License Number: E-1274-F

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
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DEPARTMENT OF
AGRICULTURE

UPGRADE INNER
CAMPGROUND UTILITIES

MISSOURI STATE
FAIRGROUNDS
2503 W 16TH STREET
SEDALIA, MISSOURI 65301

PROJECT # F1905-01
SITE # 1501
FACILITY # 3511501142

REVISION: ADD. 1
DATE: 10/11/2019
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/29/2019

CAD DWG FILE: _____
DRAWN BY: PSJ
CHECKED BY: MSS
DESIGNED BY: PSJ

SHEET TITLE:
**ELECTRICAL
DEMOLITION
ALTERNATE #2
PLAN-INNER**

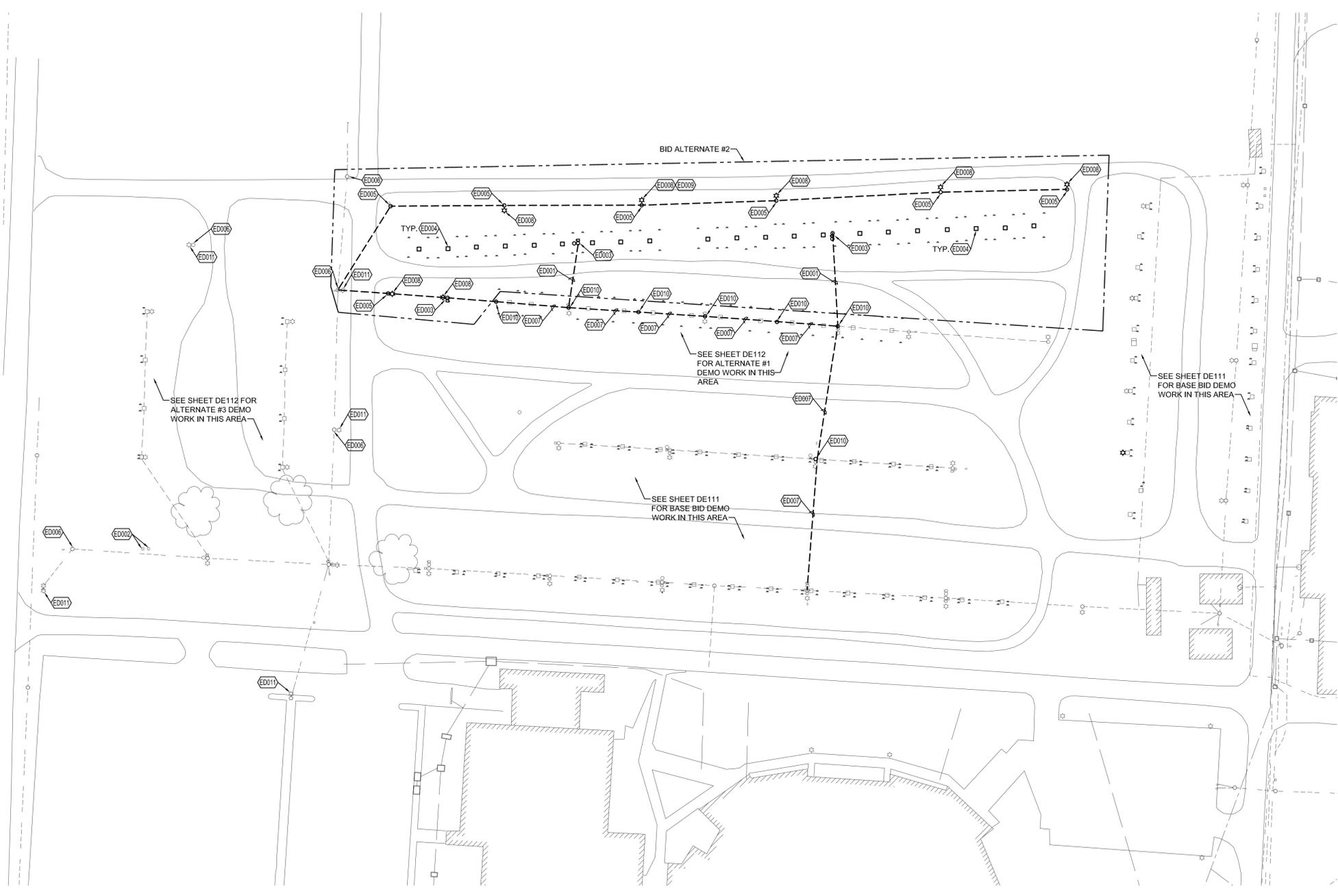
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DE113

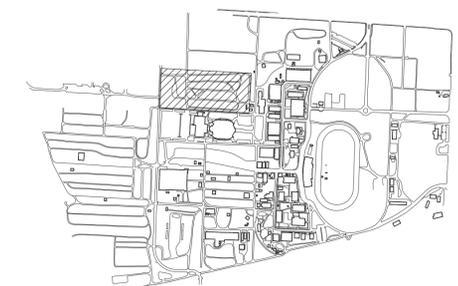
SHEET 16 OF 25
08/29/2019

GENERAL DEMO NOTES	
1	CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO TELECOM, POWER, WATER AND SEWER.
2	EXISTING UTILITIES, STRUCTURES, PAVEMENT AND ANY OTHER MATERIALS WHICH ARE DAMAGED BY CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THIS CONTRACTOR'S EXPENSE, IN A TIMELY MANNER, AND TO THE ENGINEER'S AND OWNER'S WRITTEN ACCEPTANCE.
3	REFER TO SHEETS DE111 AND DE112 FOR BASE BID, ALTERNATE #1 AND #3 WORK.

DEMOLITION PLAN NOTES	
ED001	DISCONNECT AND REMOVE EXISTING OVERHEAD CONDUCTORS AND ASSOCIATED POLE ARMS, CUTOUTS AND OTHER APPURTENANCES.
ED002	EXISTING TELECOM PEDESTAL AND ASSOCIATED WIRING TO REMAIN. FIELD VERIFY EXACT LOCATIONS.
ED003	DISCONNECT AND REMOVE EXISTING POLE-MOUNT TRANSFORMER, SAFETY SWITCHES, WEATHERHEADS, RECEPTACLES AND ASSOCIATED APPURTENANCES SERVING RV PEDESTALS. REMOVE EXISTING WOOD POLE AND OVERHEAD PRIMARY AND SITE LIGHTING POWER CONDUCTORS.
ED004	DISCONNECT AND REMOVE EXISTING RV PEDESTAL, REMOVE FEEDER CONDUIT AND CONDUCTORS BACK TO DISTRIBUTION PANELBOARD POWER SOURCE. FIELD VERIFY EXISTING ROUTING.
ED005	REMOVE EXISTING WOOD POLE AND ASSOCIATED WIRING AND ACCESSORIES.
ED006	EXISTING POLE AND ASSOCIATED OVERHEAD PRIMARY AND SITE LIGHTING POWER TO REMAIN.
ED007	ALTERNATE #1 AND #2 ONLY: DISCONNECT AND REMOVE EXISTING OVERHEAD CONDUCTORS AND ASSOCIATED POLE ARMS, CUTOUTS AND OTHER APPURTENANCES.
ED008	DISCONNECT AND REMOVE EXISTING AREA LIGHTING LUMINAIRE, SAFETY SWITCH AND ASSOCIATED CONDUIT AND CONDUCTORS INCLUDING OVERHEAD DISTRIBUTION EXCEPT AS REQUIRED TO MAINTAIN CONTINUITY OF CIRCUIT SERVING LUMINAIRES TO REMAIN.
ED009	EXISTING POLE MOUNTED WI-FI, ASSOCIATED CABLING AND ACCESSORIES TO BE REMOVED BY OWNER.
ED010	ALTERNATE #1 AND #2 ONLY: DISCONNECT AND REMOVE EXISTING WOOD POLE AND ASSOCIATED APPURTENANCES.
ED011	EXISTING AREA LIGHTING LUMINAIRE AND ASSOCIATED WIRING TO REMAIN.



ELECTRICAL DEMOLITION ALTERNATE #2 PLAN - INNER
1"=60'
0 60' 120'



KEY PLAN



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DEPARTMENT OF
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UPGRADE INNER
CAMPGROUND UTILITIES

MISSOURI STATE
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2503 W 16TH STREET
SEDALIA, MISSOURI 65301

PROJECT # F1905-01
SITE # 1501
FACILITY # 3511501142

REVISION: Δ ADD. 1
DATE: 10/11/2019
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/29/2019

CAD DWG FILE: _____
DRAWN BY: PSJ
CHECKED BY: MSS
DESIGNED BY: PSJ

SHEET TITLE:
ELECTRICAL
SITE PLAN- INNER

SHEET NUMBER:

E111

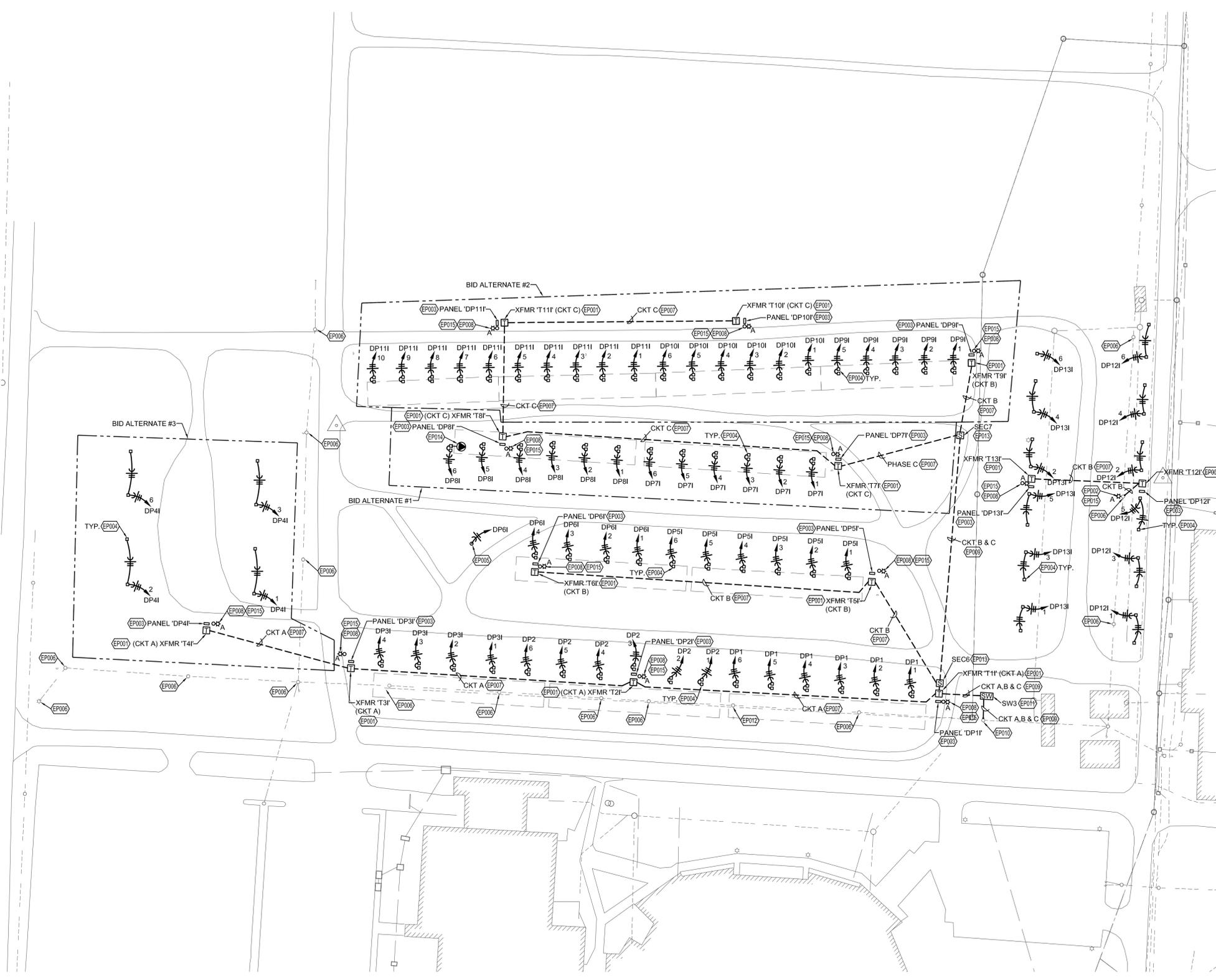
SHEET 17 OF 25
08/29/2019

GENERAL NOTES

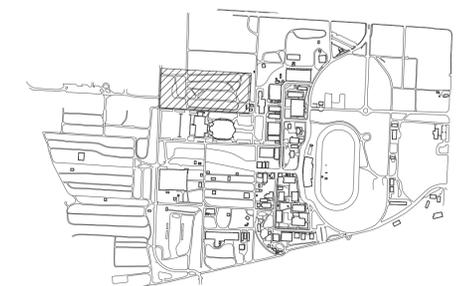
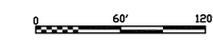
1	CIRCUIT ROUTING SHOWN IS DIAGRAMMATIC ONLY.
2	CONTRACTOR TO FIELD LOCATE, MAINTAIN AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED.

NEW WORK PLAN NOTES

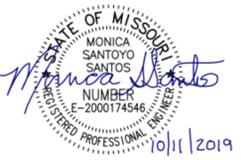
EP001	PROVIDE NEW 250 KVA, 7200Y-240/120, SINGLE PHASE PAD MOUNT TRANSFORMER.
EP002	PROVIDE NEW LIGHT FIXTURE ON EXISTING WOOD POLE.
EP003	PROVIDE NEW 240/120V PANELBOARD IN NEMA 3R ENCLOSURE MOUNTED ON GALVANIZED UNI-STRUT FRAME. SEE ASSOCIATED PANEL SCHEDULE AND RISER DIAGRAM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
EP004	DOUBLE-SIDED RV ELECTRIC PEDESTAL. SEE ELECTRICAL RISER DIAGRAM, SHEET E812 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
EP005	PROVIDE (2) #12 & (1) #12 GROUND IN 3/4" CONDUIT AND RECONNECT TO EXISTING TORNADO SIREN EQUIPMENT TO REMAIN. COORDINATE FINAL ELECTRICAL CONNECTIONS AND RE-ENERGIZATION OF EQUIPMENT WITH MANUFACTURER (FEDERAL SIGNAL) APPROVED INSTALLER.
EP006	EXISTING POLE, ASSOCIATED OVERHEAD AND UNDERGROUND DISTRIBUTION TO REMAIN.
EP007	SINGLE PHASE, MEDIUM VOLTAGE CIRCUIT BELOW GRADE. SHEET SHEET E811 FOR ADDITIONAL INFORMATION.
EP008	PROVIDE NEW 35' CLASS 3 WOOD POLE AND LUMINAIRE. PROVIDE (2) #12 & (1) #12 GROUND IN 3/4" CONDUIT FROM 20A, 1 POLE BREAKER IN NEAREST PANELBOARD. SEE PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.
EP009	THREE PHASE, MEDIUM VOLTAGE CIRCUIT BELOW GRADE. SHEET SHEET E811 FOR ADDITIONAL INFORMATION.
EP010	MODIFY EXISTING POLE ARMS TO SUPPORT ONE (1) 200A, 3 PHASE FUSED CUTOFF (FUSE AT 200A). PROVIDE CONDUIT RISER TO BELOW GRADE FOR FEEDING OF SECTIONALIZER SWITCH NOTED. SEE SHEET E811 FOR ADDITIONAL INFORMATION.
EP011	PROVIDE NEW PAD-MOUNTED, 15 KV SECTIONALIZER SWITCH (BASIS OF DESIGN: S&C PME-5 OR APPROVED EQUAL). SEE SPECIFICATIONS AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
EP012	ALTERNATE #1 AND #2 ONLY: REMOVE EXISTING FUSED CUTOFF, REPLACE WITH COMBINATION ARRESTER/200A FUSIBLE CUTOFF AND RECONNECT TO EXISTING TRANSFORMER SERVING BATH HOUSE. MAINTAIN CODE REQUIRED CLEARANCES. PROVIDE ALL REQUIRED ACCESSORIES, EQUIPMENT AND CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION.
EP013	PROVIDE 15 KV, 200A, 3 PHASE, SECTIONALIZING CABINET WITH FIBERGLASS GROUND SLEEVES AS REQUIRED FOR ON-GRADE MOUNTING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
EP014	PROVIDE NEMA 10-50R RECEPTACLE IN WEATHERPROOF ENCLOSURE. PROVIDE (3) # 6 & (1) #10 GND IN 1" CONDUIT MIN. 24" BELOW GRADE TO ASSOCIATED BREAKER IN PANEL DP8L.
EP015	PROVIDE (2) #12 & (1) #12 GROUND IN 3/4" CONDUIT FROM NEAREST PANELBOARD TO WEATHERPROOF JUNCTION BOX MOUNTED 5' ABOVE GRADE ON POLE. FOR OWNER W/FI BY OTHERS. WIRENUT AND TAPE CONDUCTORS FOR FUTURE EXTENSION. SEE PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.



ELECTRICAL SITE PLAN - INNER
1"=60'



KEY PLAN



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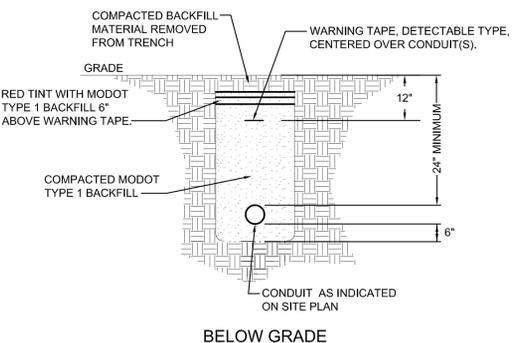
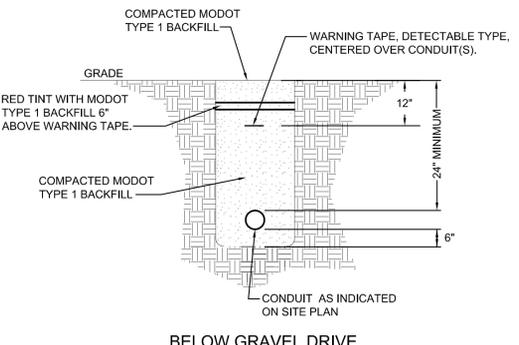
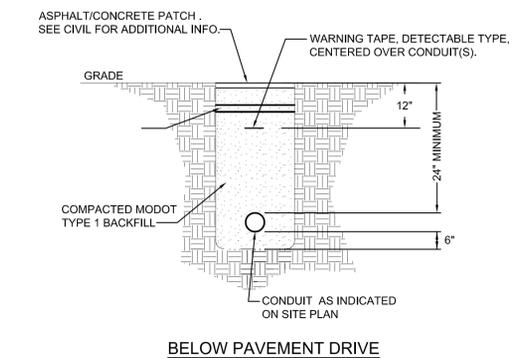
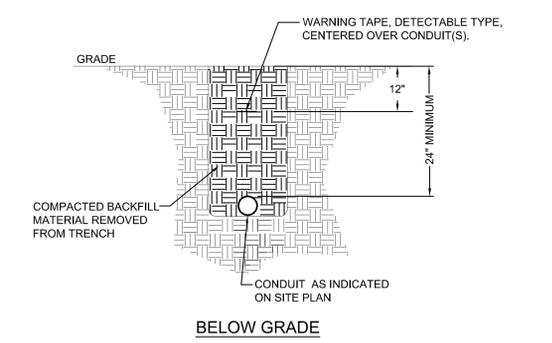
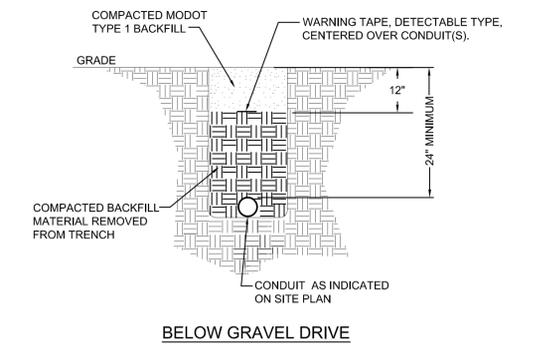
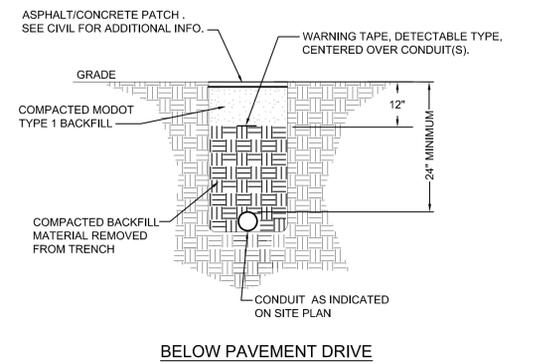
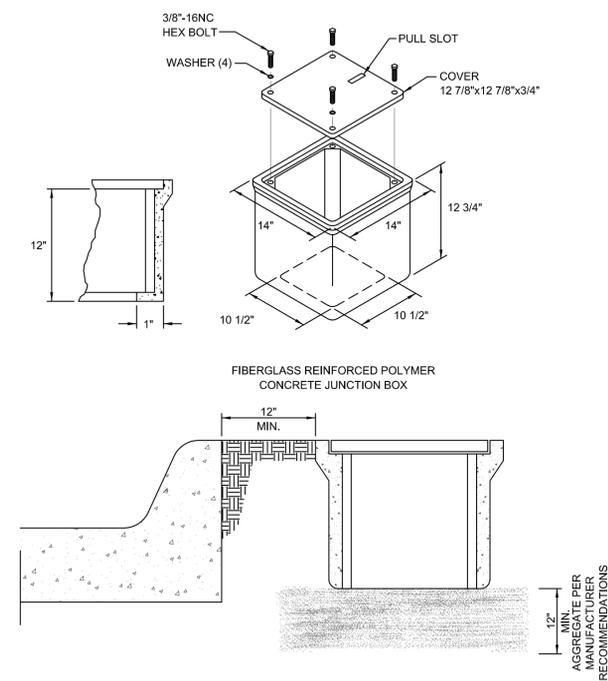
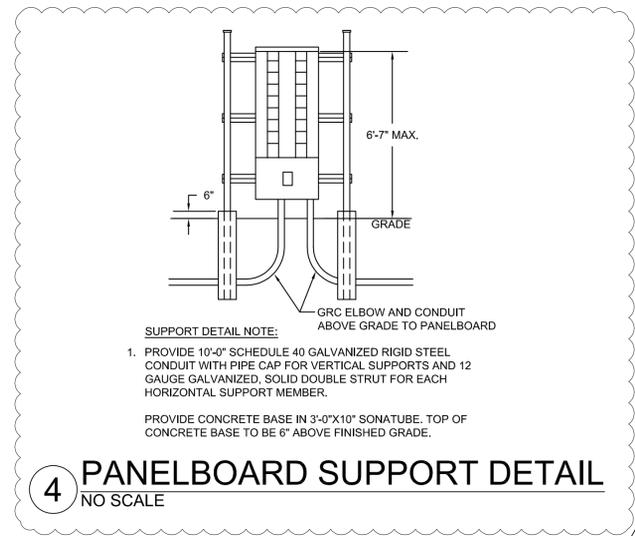
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DESIGNED BY: PSJ

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**ELECTRICAL
DETAILS**

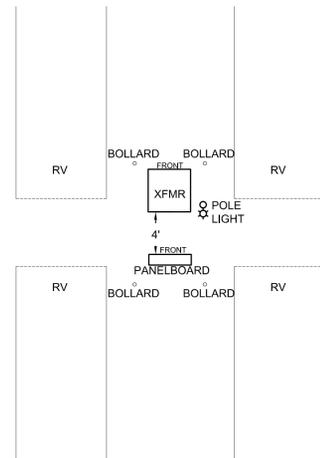
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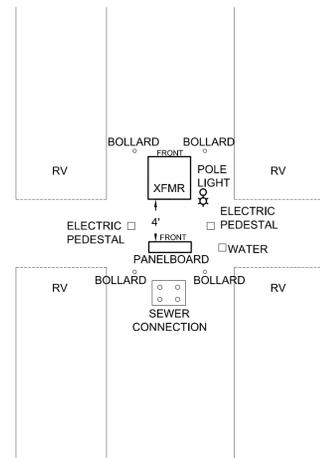
SHEET 19 OF 25
08/29/2019



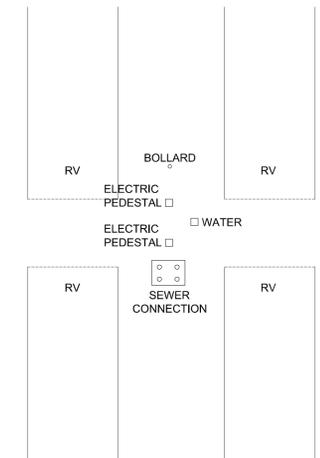
1 15KV CONDUIT TRENCH DETAILS
NO SCALE



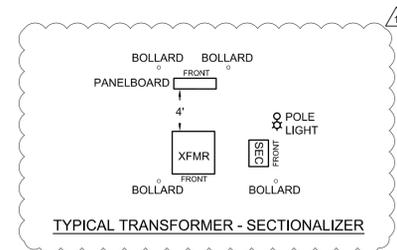
TYPICAL TRANSFORMER - STANDALONE



TYPICAL LAYOUT WITH TRANSFORMER
GENERAL NOTE: MINIMUM 36" CLEARANCE IN FRONT AND BACK OF ELECTRIC PEDESTAL EQUIPMENT.



TYPICAL LAYOUT
GENERAL NOTE: MINIMUM 36" CLEARANCE IN FRONT AND BACK OF ELECTRIC PEDESTAL EQUIPMENT.

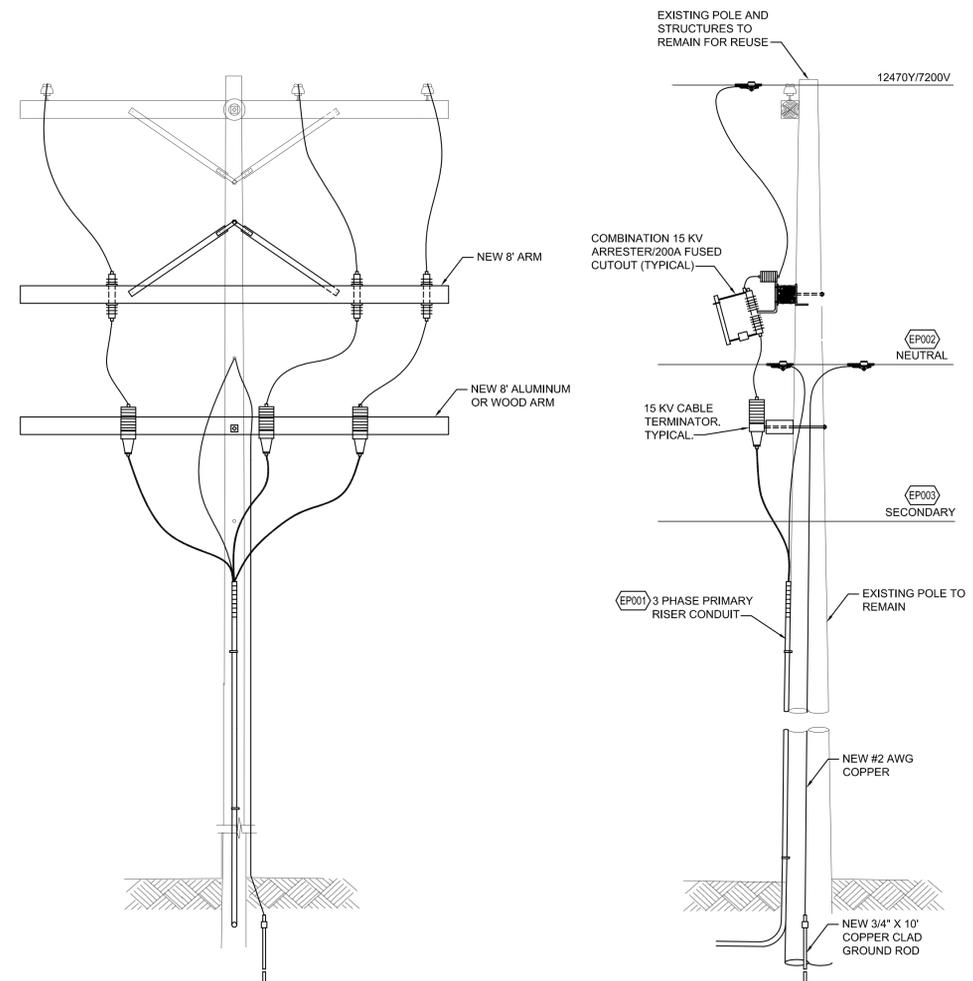


TYPICAL TRANSFORMER - SECTIONALIZER

2 TYPICAL UTILITY SERVICES LAYOUT
NO SCALE

GENERAL NOTES	
1	PROVIDE ALL WORK AS REQUIRED TO MEET INTENT OF WORK SHOWN. MAINTAIN CLEARANCES PER NESC RECOMMENDATIONS AND MEET LATEST USDA RURAL UTILITIES SERVICE STANDARD REQUIREMENTS.
2	MODIFY EXISTING STRUCTURES, CONDUCTORS, ETC. AS REQUIRED TO ACCOMMODATE NEW WORK SHOWN.

DETAIL NOTES	
EP001	PROVIDE 4" RIGID GALVANIZED RISER CONDUIT WITH STANDOFFS AS REQUIRED.
EP002	EXISTING NEUTRAL. MAINTAIN CONTINUITY AND EXISTING CONNECTIONS. MODIFY HEIGHT AS REQUIRED FOR CLEARANCES.
EP003	EXISTING 240V SECONDARY CONDUCTORS. MAINTAIN CONTINUITY AND EXISTING CONNECTIONS. MODIFY HEIGHT AS REQUIRED FOR CLEARANCES.



1 POLE DETAIL - INNER
NO SCALE



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08/29/2019