SECTION 009113 - **ADDENDA #3**

PART 1 - Addenda

1.1 PROJECT INFORMATION

A. Project Name: Joplin Public Park.

B. Owner: City of Joplin, MO.

C. Owner Project Number: 2015-011.

D. Architect: SWT Design.

E. Architect Project Number: 220288.01.

F. Date of Addendum: August 18, 2015.

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. Bid Date: August 27, 2015.

1.3 ATTACHMENTS

A. This Addendum includes the following attached Documents:
1. Exhibit A: Questions and answers received since Addendum #2 was issued.
2. Exhibit B: Questions and answers that were not answered as part of Addendum #2.

B. This Addendum includes the following attached Specification Sections:
1. Exhibit C: Section 004323 Alternate Form, dated August 18, 2015, (reissued).
2. Exhibit D: Section 012300 Alternates, dated August 18, 2015, (reissued).

C. This Addendum includes the following attached Drawing Sheets, Exhibit E:
1. Civil Sheets; D100, D102, D103, dated August 18, 2015 (reissued).
2. Electrical Sheets; E100, E102, E103, E500, E600, dated August 18, 2015 (reissued).

1.4 REVISIONS TO DIVISION 00 PROCUREMENT REQUIREMENTS AND CONTRACTING REQUIREMENTS

A. Document 004323 Alternates Form.

1. Paragraph 1.3, Items C, D, E, and F.

2. Paragraph1.4, Alternates were renumbered to reflect Alternates 0012300.

1.5 REVISIONS TO DIVISION 01 GENERAL REQUIREMENTS

A. Specification Section 012300 Alternates.

1. Paragraph 3.1, Alternates were renumbered to reflect prioritized order of acceptance.

1.6 CLARIFICATIONS

A. Soils Remediation:

1. Appendix C – Soils Investigation by Kent and Associates, Section 4.1.
   a. Contaminated soils do not need to be excavated and transported to the EPA designated soils repository.
   b. Per Jasper County Environmental Contamination Ordinance Appendix A Soils allows for remediation with 12” of clean soils in place only if disturbed.
   c. Proposed grading plan reflects the 12” of soil in these areas.
   d. No excavation and hauling of contaminated soils to the EPA designated repository is anticipated in the project scope of services.

B. Unit Prices:

1. Per Specification Section 012200 Unit Prices, Paragraph 1.4, unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
2. Specification Sections 004322.00 and 004322.01 require unit prices to be provided.

END OF SECTION 009113

EXHIBIT A

QUESTIONS AND ANSWERS SINCE ADDENDUM #2

JOPLIN PUBLIC PARK

QUESTIONS / ANSWERS

1. **Q:** In regards to the Pedestrian Lighting Alternate (now #3, see 012300 Alternates), are the light pole bases part of the base bid? If pedestrian lighting pole bases are not part of the base bid, are we to put junction boxes near every type A pole base?
   A: Section 012300 defines the pedestrian lighting alternate as the installation of the light poles, foundations, and wiring. Junction boxes are not to be installed at each pole location in base bid, only conduit stubbed to each location.

2. **Q:** Is there a preference on seed vendors for the native live seed?
   A: No preference on vendor, but seed should be sourced from within the ecoregion, approximately 180 mile radius.

EXHIBIT B

PRE-BID MEETING QUESTIONS AND ANSWERS NOT ANSWERED AS PART OF ADDENDUM #2

JOPLIN PUBLIC PARK

PRE-BID MEETING

QUESTIONS / ANSWERS / CLARIFICATIONS NOT ADDRESSED IN ADDENDUM #2
August 11, 2015
10:00am @ Joplin City Hall, 5th Floor

6. **Q:** Is there an alternate approach from what is referenced in the geotechnical report?
A: See geotechnical report for details.

8: **Q:** Can we use PEB's in lieu of PGA's for the irrigation system?
A: PEB's would be acceptable in lieu of PGA's, but base scope still includes PGA's.

12: **Q:** Who will be responsible for paying the utility tap fee?
A: General Contractor will be responsible.

15: **Q:** Is it anticipated for there to excavation of bedrock?
A: Results of subsurface conditions are in the geotechnical report.

EXHIBIT C

004323 ALTERNATE FORM

SECTION 004323 - ALTERNATES FORM

PART 1 - Alternates Form

1.1 BID INFORMATION

A. Bidder: _____.

B. Project Name: Joplin Public Park.

C. Project Location: Southeast corner of 26th St. and McClelland Blvd., Joplin, MO.

D. Owner: City of Joplin, MO.

E. Owner Project Number: 2015-011.

F. Landscape Architect: SWT Design.

G. Landscape Architect Project Number: 20288.01.

1.2 BID FORM SUPPLEMENT

A. This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.

B. If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."

~~C. If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."~~

D. The Bidder shall be responsible for determining from the Contract Documents the effects of each alternate on the ~~Contract Time and the~~ Contract Sum.

E. Owner will accept alternates in the order indicated, and reserves the right to award or amend the Contract accordingly within [**90**] days of the Notice of Award unless otherwise indicated in the Contract Documents.

F. Acceptance or non-acceptance of any alternates by the Owner shall have no effect on the Contract Time ~~unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time~~.

1.4 SCHEDULE OF ALTERNATES

A. Alternate No. 1: 10' Sidewalk along 26th St:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

B. Alternate No. 2: Large Shelter:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

C. Alternate No. 3: Pedestrian Lighting:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

D. Alternate No. 4: Boardwalk:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

E. Alternate No. 5: Small Shelter:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

F. Alternate No. 6: Council Ring:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

G. Alternate No. 7: Pine Savanna Seed Mix:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

H. Alternate No. 8: Short Grass Prairie Seed Mix:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

I. Alternate No. 9: Base Bid Native Landscape Establishment and Maintenance:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

J. Alternate No. 10: Pine Savanna Establishment and Maintenance:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

K. Alternate No. 11: Short Grass Prairie Establishment and Maintenance:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.

2. _____ Dollars ($_____).

1.5 SUBMISSION OF BID SUPPLEMENT

A. Respectfully submitted this ____ day of _____, 2015.

B. Submitted By:_____(Insert name of bidding firm or corporation).

C. Authorized Signature:_____(Handwritten signature).

D. Signed By:_____(Type or print name).

E. Title:_____(Owner/Partner/President/Vice President).

END OF SECTION 004323

EXHIBIT D

012300 ALTERNATES

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: 10’ Sidewalk along 26th St.

1. Base Bid: Connection to corner of 26th St. and McClelland.”
2. 4” thick concrete, 10’ wide walk along remainder of 26th St. as indicated on the drawings.

B. Alternate No. 2: Large Shelter

1. Base Bid: Install concrete walk and paving, drinking fountain, flagstones in the water, and boulder work along lake edge as indicated on Sheet L102 – Materials and Notes Area B.
2. Alternate: Add shelter, footings, and electrical/lighting as indicated on Sheet L530, L531 – Large Shelter (Alternate 1) and as specified in Section 033000 "Cast-In-Place Concrete” and “Division 26 – Electrical Specifications.”

C. Alternate No. 3: Pedestrian Lighting

1. Base Bid: Install conduit for all pedestrian light poles as indicated on Sheet E101 – E103 Electrical Site Plan Area A-C.
2. Alternate: Add light poles, fixtures, and foundations as indicated on Sheet E101-E103 and as specified in Section ”260526 Grounding and Bonding for Electrical Systems,” “260529 Hangers and Supports for Electrical Systems,” and “265600 Exterior Lighting.”

D. Alternate No. 4: Boardwalk.

1. Alternate: Add PermaTrak Boardwalk, associated footings, and boulders as indicated on Sheet L550 and as specified in Section 033000 "Cast-In-Place Concrete” and Appendix D specifications and Appendix B (Geotechnical Report).

E. Alternate No. 5: Small Shelter.

1. Base Bid: Install concrete walk and drinking fountain as indicated on Sheet L101 – Materials and Notes Area A.
2. Alternate: Add shelter, footings, and electrical lighting as indicated on Sheet and as specified in Section 033000 "Cast-In-Place Concrete" and “Division 26 – Electrical Specifications.”

F. Alternate No. 6: Council Ring.

1. Base Bid: Install sod as specified in Section 329200 "Turf & Grasses."
2. Alternate: Deduct sod, add boulder steps, flagstone, boulder seat walls, boulder wall at edge of lake and flagstone in water as indicated on Sheet L560 “Council Ring Alternate 4” and as specified in Section 321400 "Unit Paving” and 323223 “Segmental Retaining Walls."

G. Alternate No. 7: Pine Savanna Seed Mix

1. Base Bid: Install turf seed in all areas indicated on Sheet L153 “Seed/Sod Planting Plan Area C and as specified in Section 329200 “Turf & Grasses.”

2. Add Pine Savanna Seed Mix in areas indicated on L153 “Seed/Sod Planting Plan Area C and as specified in Section 329200 “Turf & Grasses.”

H. Alternate No. 8: Short Grass Prairie Seed Mix

1. Base Bid: Install turf seed in all areas indicated on Sheets L151-153 “Seed/Sod Planting Plan Area A-C and as specified in Section 329200 “Turf & Grasses.”
2. Alternate: Add Short Grass Prairie Seed Mix in areas indicated on L151-L153 “Seed/Sod Planting Plan Area A-C and as specified in Section 329200 “Turf & Grasses.”

I. Alternate No. 9: Base Bid Native Landscape Establishment and Maintenance

1. Base Bid: Establishment and maintenance services until issuance of Substantial Completion and as specified in Section 329200 “Turf & Grasses.”
2. Alternate: Provide cost for three year period to maintain and establish Meadow and Short Grass Prairie in areas indicated on L151-L153 “Seed/Sod Planting Plan Area A-C” and as specified in Section 329200 “Turf & Grasses.”

J. Alternate No. 10: Pine Savanna Establishment and Maintenance

1. Base Bid: none.
2. Alternate: Provide cost for three year period to maintain and establish Pine Savanna mix in areas indicated o L153 “Seed/Sod Planting Plan Area C” and as specified in Section 329200 “Turf & Grasses.”

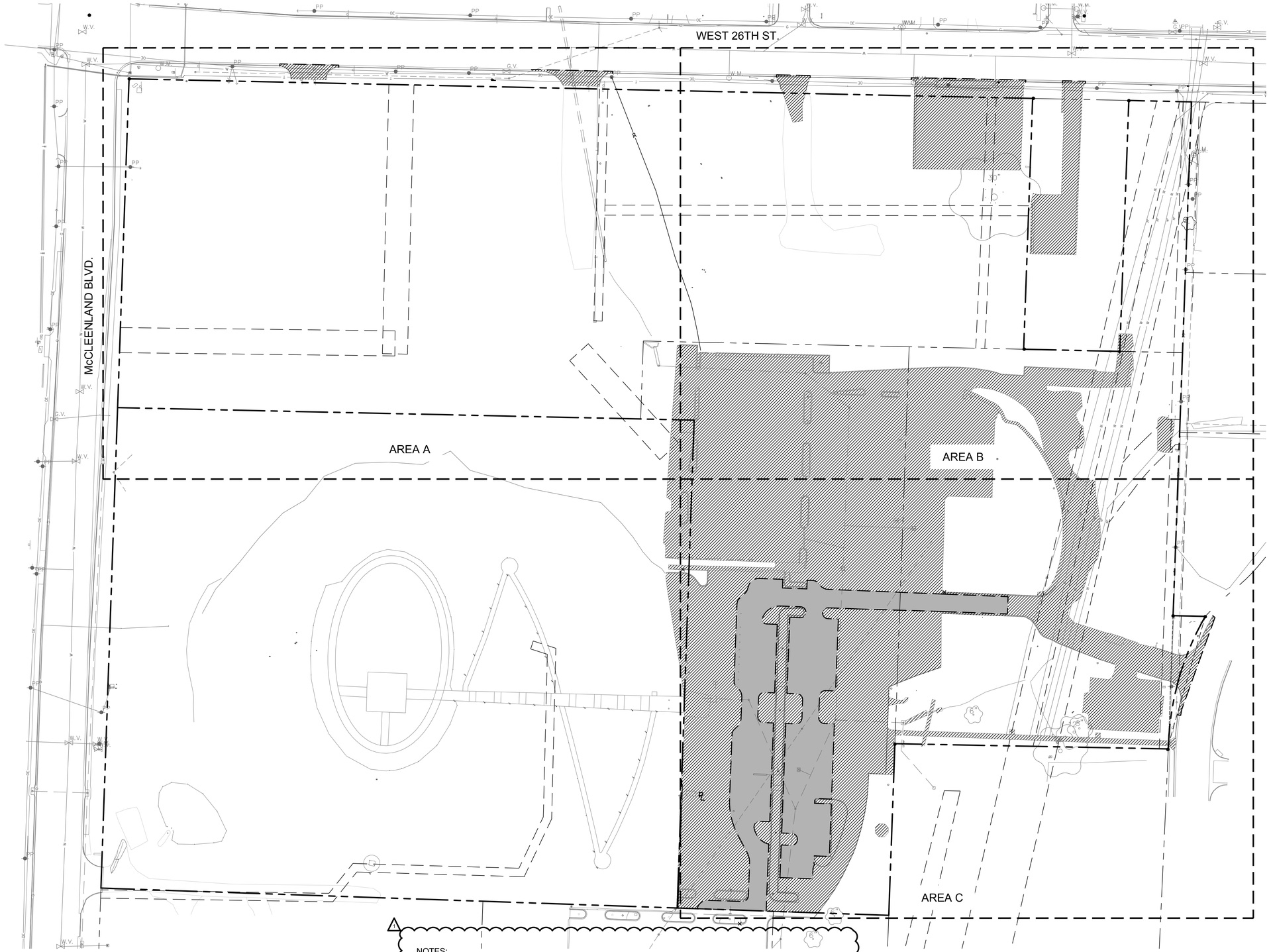
K. Alternate No. 11: Short Grass Prairie Establishment and Maintenance

1. Base Bid: none.
2. Alternate: Provide cost for three year period to maintain and establish Short Grass Prairie in areas indicated on L151-L153 “Seed/Sod Planting Area A-C” and as specified in Section 329200 “Turf & Grasses.”

END OF SECTION 012300

EXHIBIT E

DRAWING SHEETS



SPECIAL NOTE TO CONTRACTOR(S):

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NOTES:

1. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE SUCH THAT THE AREA IS WELL-DRAINED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING AND/OR TEMPORARILY RE-ROUTING STORM WATER FLOWS (OFF-SITE AND ON-SITE STORM WATER FLOWS) AS NECESSARY TO PERFORM ITS CONSTRUCTION OPERATIONS. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE OTHER ITEMS OF WORK AND SHALL NOT BE CONSIDERED ADDITIONAL SCOPE AND COST. CONTRACTOR SHALL REFER TO THE CITY OF JOPLIN STANDARD SPECIFICATIONS, DIVISION 0000/SECTION 0400.16 AND DIVISION 1000/SECTION 1200/ARTICLE 1200.3/ITEM 1200.3.1.

2. EXISTING LIGHT FIXTURES AND POLES ARE TO BE RELOCATED FOR FUTURE USE. AFTER REMOVAL, LIGHT FIXTURES SHALL BE STORED IN A SAFE LOCATION. PRIOR TO RELOCATION, LIGHT FIXTURES SHALL BE CLEANED AND RELAMPED. REFER TO ELECTRICAL SHEETS FOR NEW LIGHT POLE LOCATIONS.

LEGEND

EXISTING ASPHALT PAVEMENT, CONCRETE CURB & GUTTER, CONCRETE PAVEMENT, SIDEWALK TO BE REMOVED

2" MILL OF EXISTING ASPHALT PAVEMENT

60' 0' 60' 120'

SCALE: 1" = 60'

08-03-2015 - BID DOCUMENTS / PERMIT SET

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OPERATOR: AHARRISON

CITY OF JOPLIN MISSOURI

Joplin Public Park

Landscape Architect:
SWTDESIGN
7722 Big Bend Blvd.
St. Louis, MO 63119
314.644.5700

Civil Engineer:
Horner & Shifrin
401 S. 18th St. STE. 400
St. Louis, MO 63103
314.531.4321

Geotechnical Engineer:
Palmerton & Parrish, Inc.
4168 W. Kearney
Springfield, MO 65803
417.864.6004

Irrigation Consultant:
Landtech Design
8420 Zionsville Rd
Indianapolis, IN 46268
314.541.2779

FOR BIDDING PURPOSE ONLY
NOT FOR CONSTRUCTION

Stephen Randolph
Professional Engineer
E-2001004652
STATE OF MISSOURI
STEPHEN RANDOLPH
NUMBER
E-2001004652
REGISTERED PROFESSIONAL ENGINEER
8/17/15

Aaron Harrison - Professional Engineer
PE-2003014976
STATE OF MISSOURI
AARON MICHAEL HARRISON
NUMBER
PE-2003014976
PROFESSIONAL ENGINEER
08-03-2015

Horner & Shifrin, Inc.
Missouri State Certificate of Authority #000159

KEY PLAN

Issuances

No.	Description	Date
01	Bid Documents / Permit Set	08/03/15

Revisions

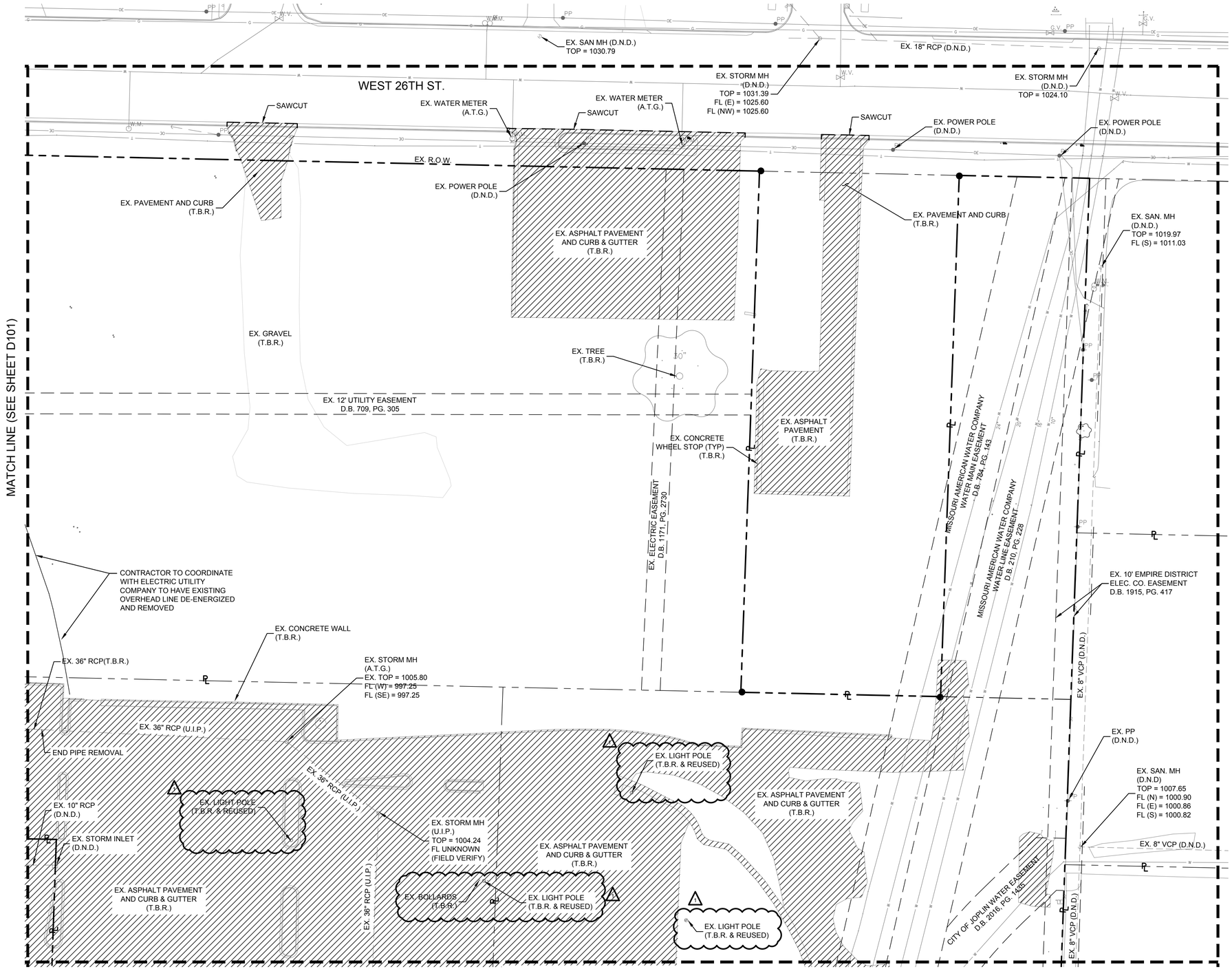
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1	ADDENDUM #3	08/18/15

SWT No. 20288.01.000

Drawn AMH | Reviewed GEB

Sheet Title
OVERALL DEMOLITION PLAN

Number
D100



NOTES:

1. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE SUCH THAT THE AREA IS WELL-DRAINED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING AND/OR TEMPORARILY RE-ROUTING STORM WATER FLOWS (OFF-SITE AND ON-SITE STORM WATER FLOWS) AS NECESSARY TO PERFORM ITS CONSTRUCTION OPERATIONS. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE OTHER ITEMS OF WORK AND SHALL NOT BE CONSIDERED ADDITIONAL SCOPE AND COST. CONTRACTOR SHALL REFER TO THE CITY OF JOPLIN STANDARD SPECIFICATIONS, DIVISION 0000/SECTION 0400.16 AND DIVISION 1000/SECTION 1200/ARTICLE 1200.3/ITEM 1200.3.1.

2. EXISTING LIGHT FIXTURES AND POLES ARE TO BE RELOCATED FOR FUTURE USE. AFTER REMOVAL, LIGHT FIXTURES SHALL BE STORED IN A SAFE LOCATION. PRIOR TO RELOCATION, LIGHT FIXTURES SHALL BE CLEANED AND RELAMPED. REFER TO ELECTRICAL SHEETS FOR NEW LIGHT POLE LOCATIONS.

LEGEND

EXISTING ASPHALT PAVEMENT, CONCRETE CURB & GUTTER, CONCRETE PAVEMENT, SIDEWALK TO BE REMOVED

2" MILL OF EXISTING ASPHALT PAVEMENT

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08-03-2015 - BID DOCUMENTS / PERMIT SET

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OPERATOR: AHARRISON

CITY OF JOPLIN MISSOURI

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KEY PLAN

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Revisions

No.	Description	Date
1	ADDENDUM #3	08/18/15

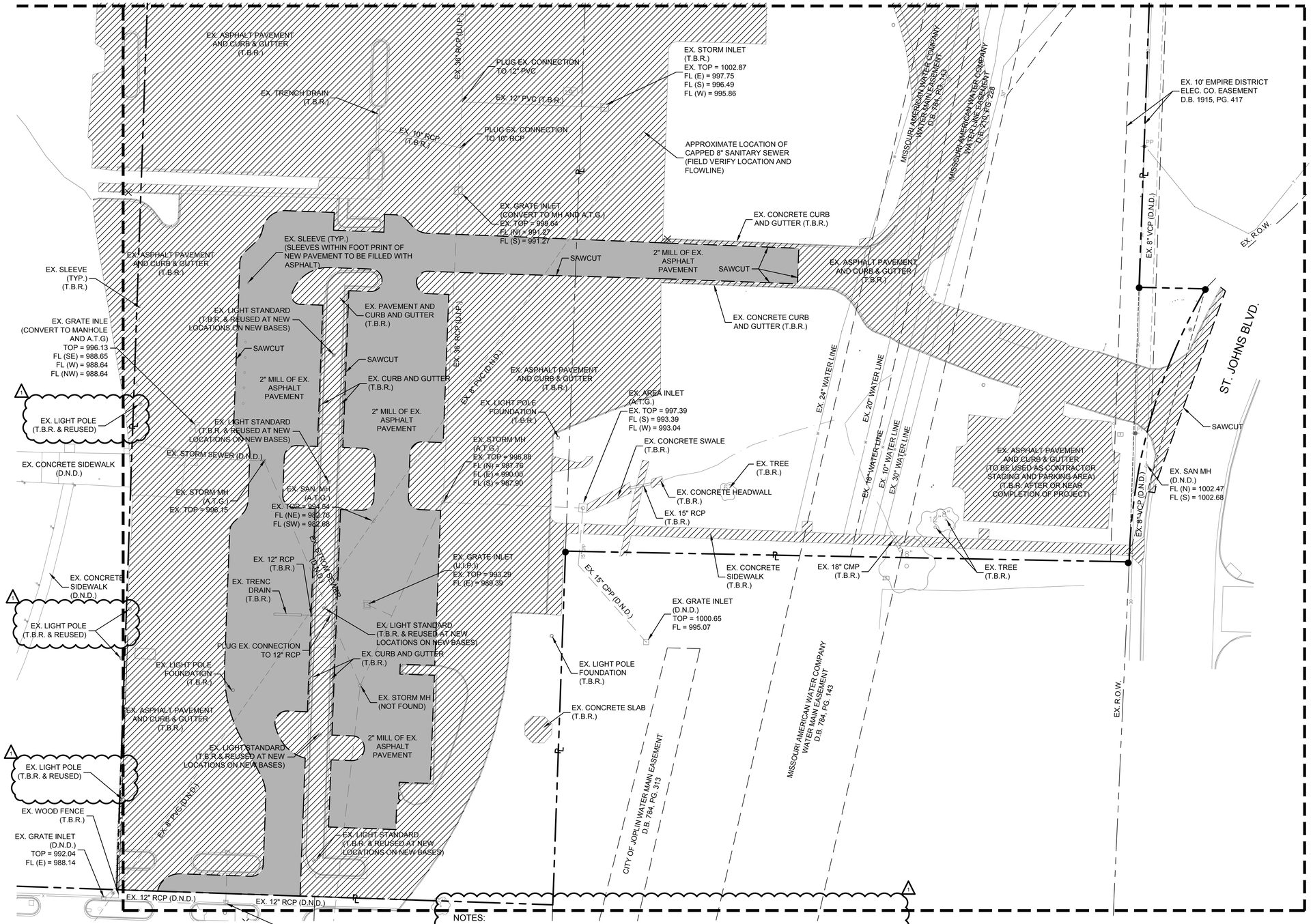
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Sheet Title
DEMOLITION PLAN - AREA B

Number
D102

MATCH LINE (SEE SHEET D102)



SPECIAL NOTE TO CONTRACTOR(S):

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LEGEND

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2" MILL OF EXISTING ASPHALT PAVEMENT

30' 0' 30' 60'

SCALE: 1" = 30'

08-03-2015 - BID DOCUMENTS / PERMIT SET

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CITY OF JOPLIN MISSOURI

Joplin Public Park

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8/19/15

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KEY PLAN

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No.	Description	Date
01	Bid Documents / Permit Set	08/03/15

Revisions

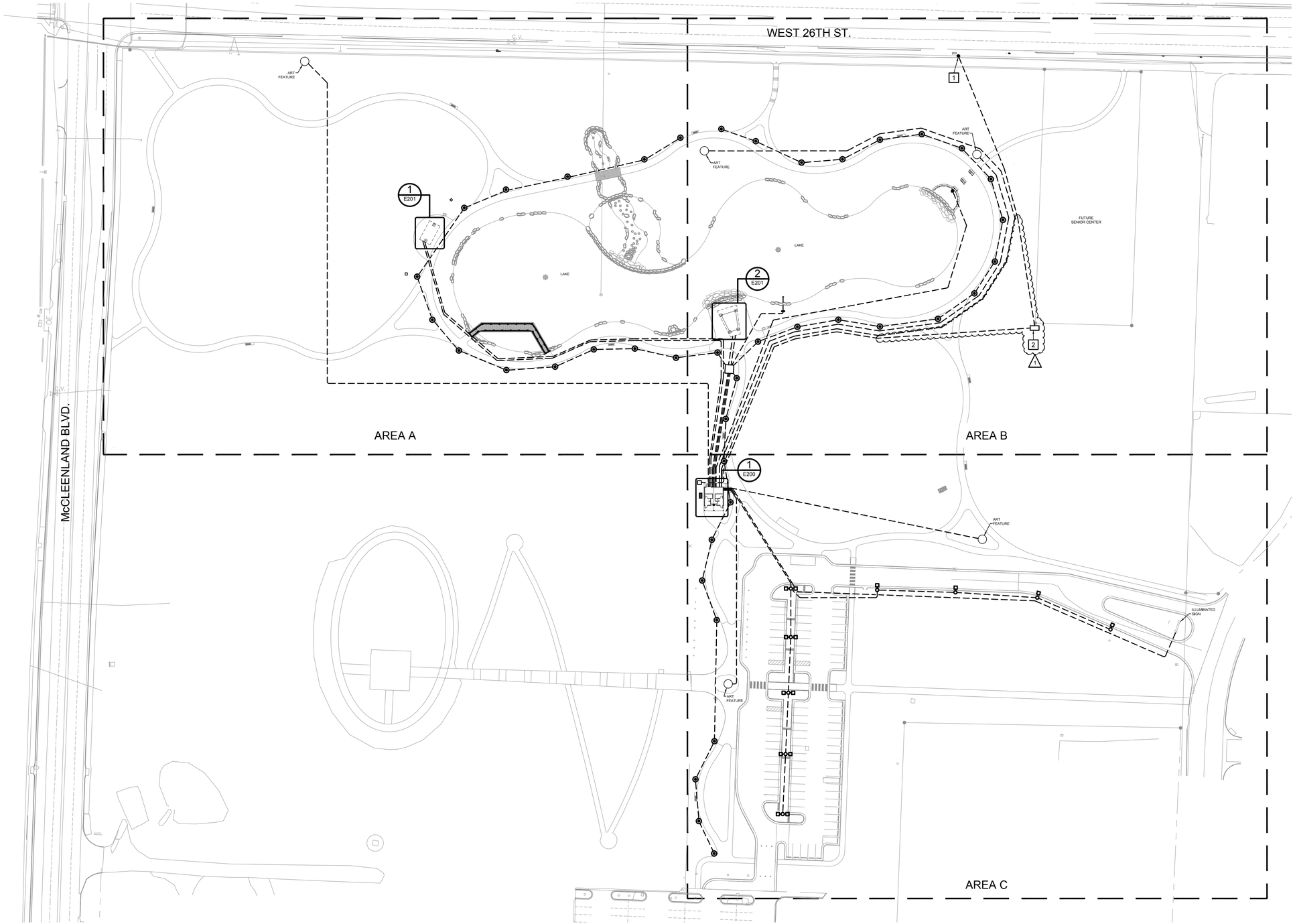
No.	Description	Date
1	ADDENDUM #3	08/18/15

SWT No. 20288.01.000

Drawn AMH | Reviewed GEB

Sheet Title
DEMOLITION PLAN - AREA C

Number
D103



KEYED NOTES (THIS SHEET ONLY):

1. 1 EXISTING OVERHEAD POWER POLE. ALL PRIMARY WORK FROM UTILITY POLE TO PAD MOUNTED TRANSFORMER IS RESPONSIBILITY OF EMPIRE DISTRICT ELECTRIC.
2. 2 UTILITY VAULT FOR FUTURE SENIOR CENTER FURNISHED AND INSTALLED BY EMPIRE DISTRICT ELECTRIC.

SCALE: 1" = 60'

60' 0' 60' 120'

SPECIAL NOTE TO CONTRACTOR(S):

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CITY OF JOPLIN MISSOURI

Joplin Public Park

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Civil Engineer:
Horner & Shifrin
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Irrigation Consultant:
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John C. Frisch - Proffessional Engineer
MO #2007020266

STATE OF MISSOURI JOHN C. FRISCH NUMBER PE-2007020266 PROFESSIONAL ENGINEER

Horner & Shifrin, Inc.
Missouri State Certificate of Authority #000159

KEY PLAN

Issuances

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Revisions

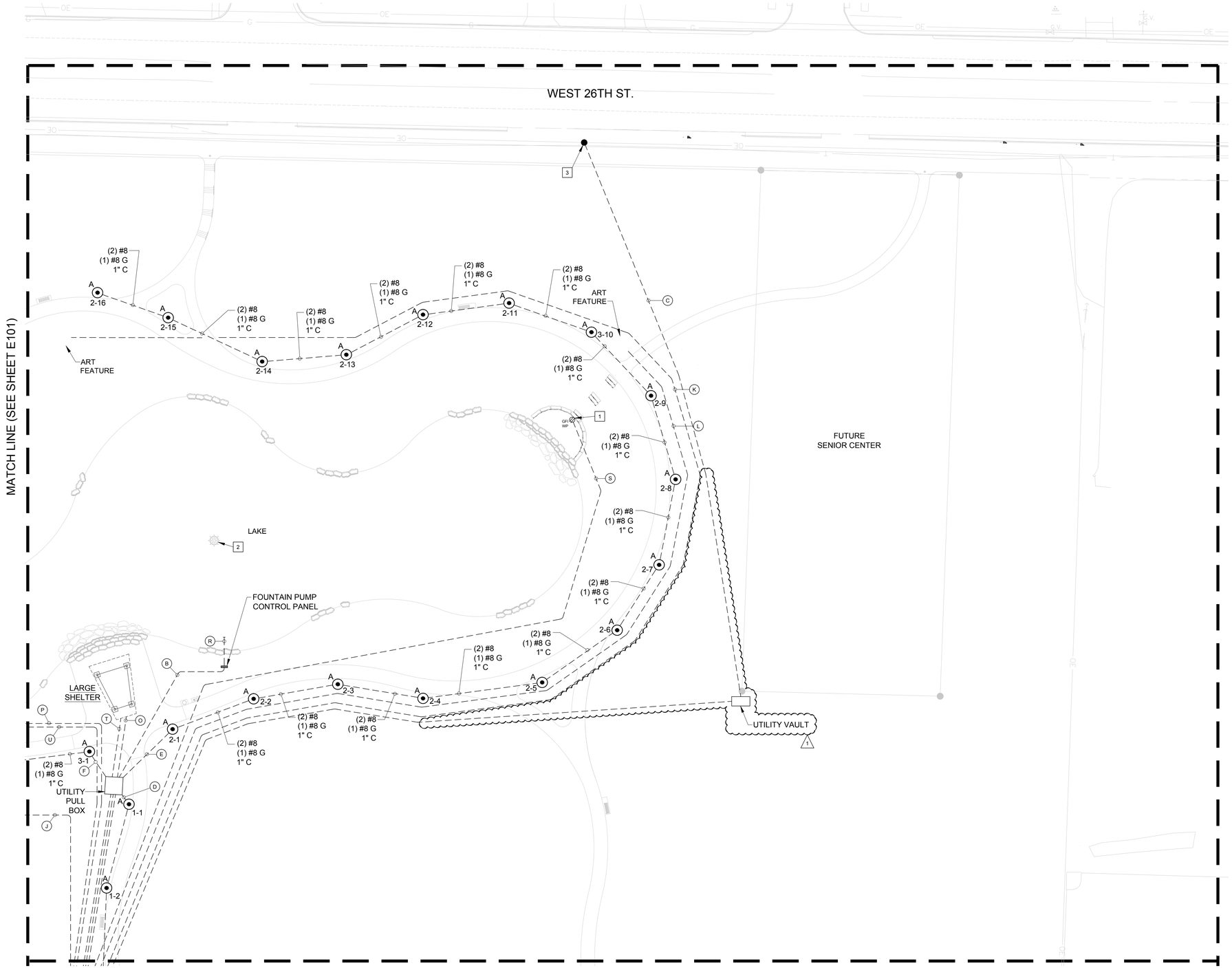
No.	Description	Date
1	ADDENDUM #3	08/18/15

SWT No. 20288.01.000

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Sheet Title
OVERALL ELECTRICAL SITE PLAN

Number
E100



SPECIAL NOTE TO CONTRACTOR(S):

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GENERAL NOTES:

1. LIGHTING CIRCUIT INDENTIFIERS ARE AS FOLLOWS:
   A 1-1 = FIXTURE TYPE A, CIRCUIT #1, POLE #1.
2. REFER TO SHEET E600 FOR SITE FEEDER SCHEDULE.

KEYED NOTES (THIS SHEET ONLY):

1 PROVIDE #10 PIGTAILS AT OUTDOOR RECEPTACLE.

2 CONTRACTOR SHALL INSTALL MANUFACTURERS SUPPLIED FOUNTAIN CABLES FROM CONTROL PANEL TO FOUNTAIN. REFER TO FOUNTAIN PUMP CONTROL PANEL DETAIL ON SHEET E500.

3 REFER TO SHEET E100 FOR POWER POLE INFORMATION.

30' 0' 30' 60'
SCALE: 1" = 30'

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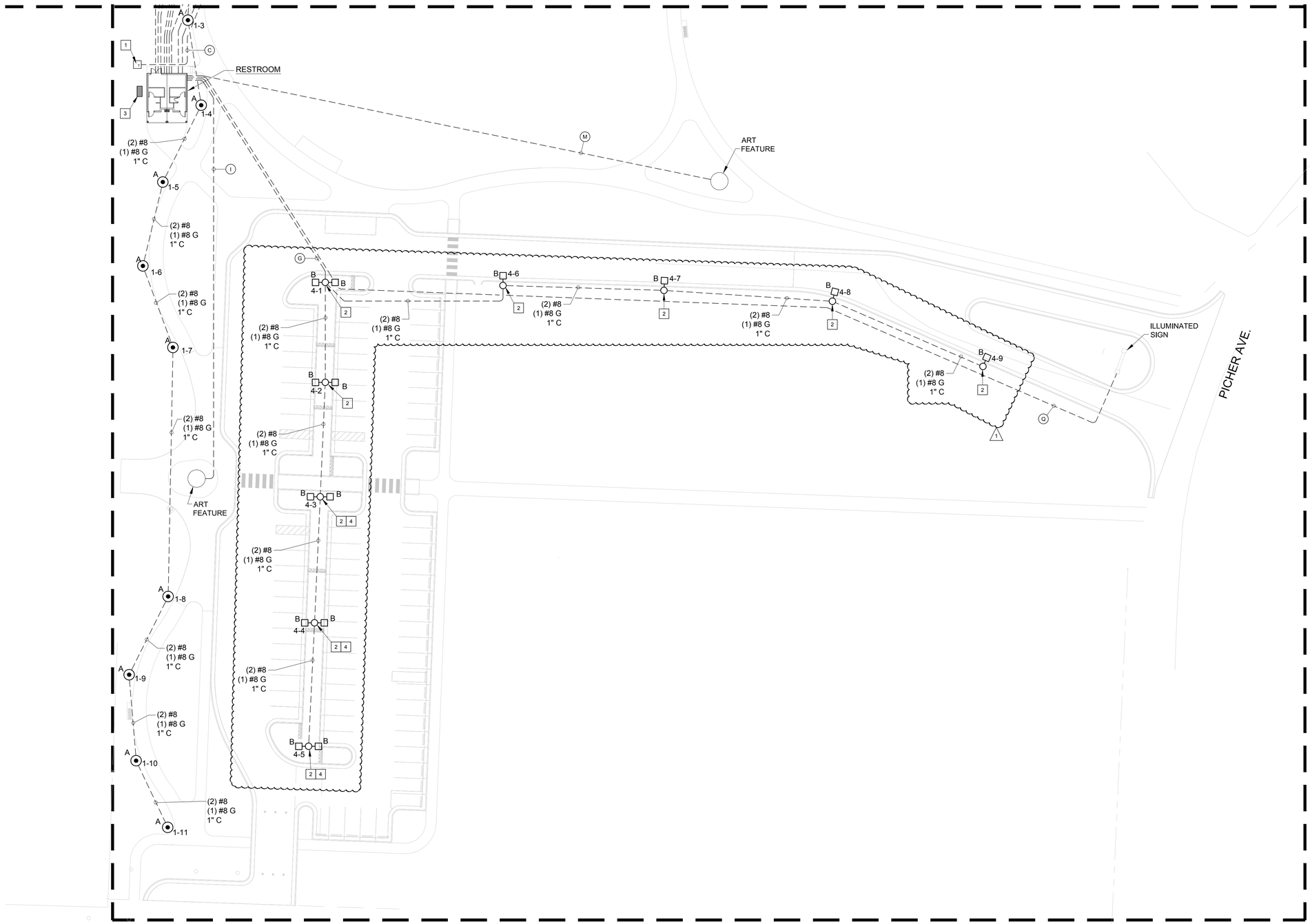
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Sheet Title
ELECTRICAL SITE PLAN
AREA B

Number
E102

MATCH LINE (SEE SHEET E102)



GENERAL NOTES:

1. LIGHTING CIRCUIT INDENTIFIERS ARE AS FOLLOWS:
   A 1-1 = FIXTURE TYPE A, CIRCUIT #1, POLE #1.
2. REFER TO SHEET E600 FOR SITE FEEDER SCHEDULE.
3. IN PARKING LOT AREA, CONTRACTOR SHALL ADJUST POLE BASE DEPTH SO FIXTURES HAVE UNIFORM HEIGHT THROUGHOUT PARKING AREAS.

KEYED NOTES (THIS SHEET ONLY):

1. PAD MOUNTED UTILITY TRANSFORMER. COORDINATE EXACT PAD REQUIREMENTS WITH EMPIRE DISTRICT ELECTRIC. (RICK STOCKTON, (417) 625-6181, RSTOCKTON@EMPIREDISTRICT.COM)
2. PROVIDE NEW CONCRETE BASE FOR EXISTING PARKING LOT LIGHT FIXTURES.
3. NEW EVENT PANEL LOCATION.
4. CONTRACTOR SHALL MODIFY EXISTING SINGLE HEAD POLES TO ACCEPT ADDITIONAL FIXTURES.

SPECIAL NOTE TO CONTRACTOR(S):

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SCALE: 1" = 30'

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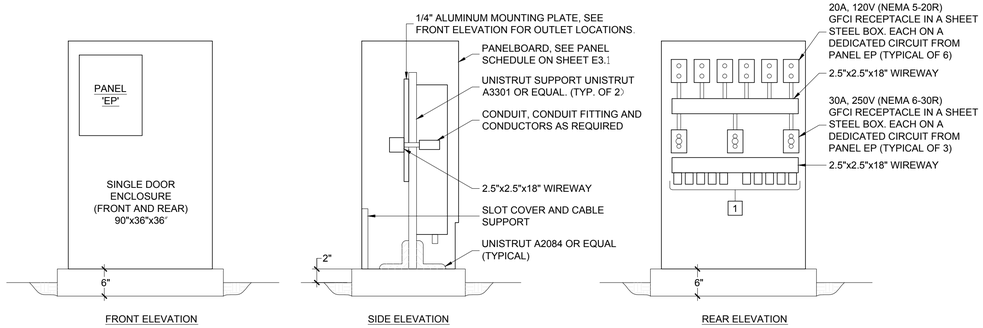
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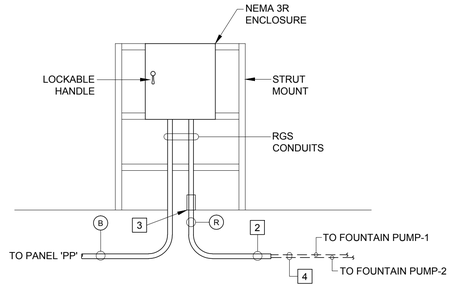
Sheet Title
ELECTRICAL SITE PLAN
AREA C

Number
E103



EVENT PANEL 'EP' DETAIL

SCALE: N.T.S.



FOUNTAIN PUMP CONTROL PANEL DETAIL

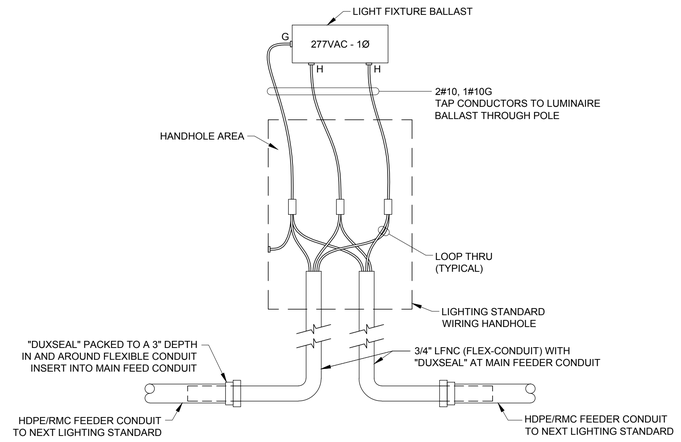
SCALE: N.T.S.

KEYED NOTES (THIS SHEET ONLY):

1. PROVIDE (2) SETS OF (3) PHASE, (1) NEUTRAL, (1) GROUND, CAM LOCK CONNECTORS FOR FUTURE POWER CONNECTIONS. CAM LOCKS SHALL BE COLORED FOR 208V SERVICE (BLACK (AØ), RED (BØ), BLUE (CØ). WHITE (NØ) AND GREEN FOR GROUND). PROVIDE (4) #2 AWG AND (1) #8 AWG GROUND FOR 100A CAM LOCKS.
2. EXTEND PUMP CONDUIT 5'-0" PAST LAKE EDGE INTO WATER. CONDUIT NEEDS TO BE A MINIMUM OF 1 FOOT BELOW NORMAL WATER LEVEL. USE 90 DEGREE CONDUIT SWEEPS.
3. PROVIDE CONDUIT SEALS ON PUMP CONDUITS PRIOR TO CONDUIT ENTERING CONTROL PANEL.
4. MANUFACTURER SUPPLIED PUMP CABLES.

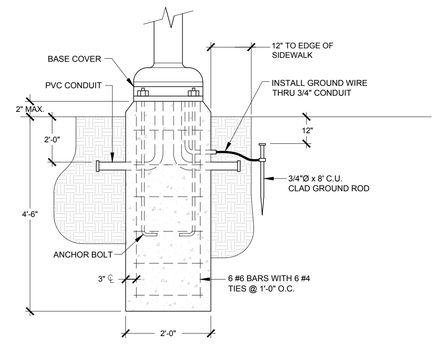
GENERAL NOTES (EVENT PANEL ONLY):

1. VERIFY PAD SIZE WITH FINAL EQUIPMENT SELECTION.
2. EVENT PANEL LAYOUT SHOWN IS DIAGRAMATIC ONLY. CONTRACTOR SHALL CONFIGURE PANEL IN ARRANGEMENT FOR BEST EASE OF CONTRACTIBILITY.



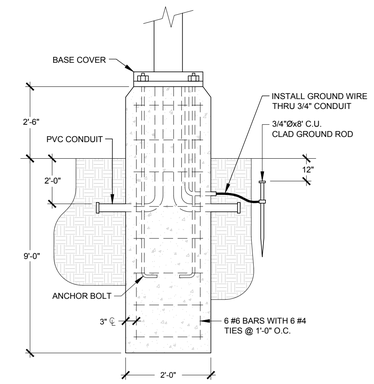
STREET LIGHT WIRING DETAIL

NO SCALE



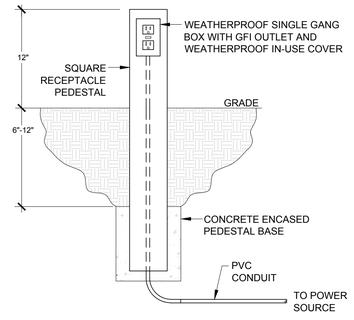
FIXTURE TYPE "A" MOUNTING DETAIL

NO SCALE



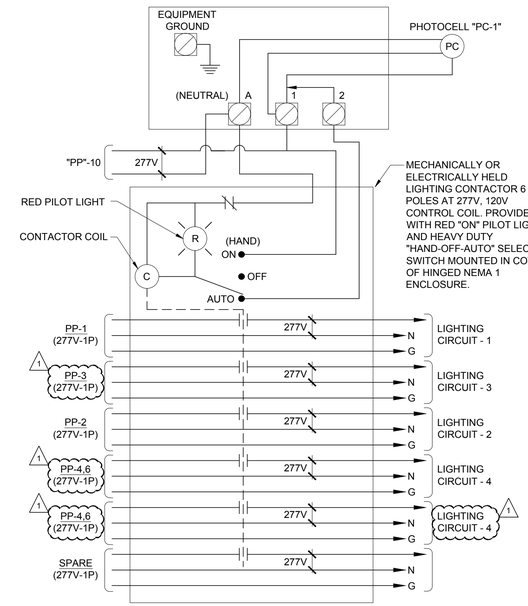
FIXTURE TYPE 'B' MOUNTING DETAIL

NO SCALE



GROUND MOUNTED RECEPTACLE DETAIL

NO SCALE



LIGHTING CONTROL DIAGRAM "LC-1" - 277V

NO SCALE

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KEY PLAN

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Sheet Title
ELECTRICAL DETAILS

Number
E500

PANEL NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	AIC RATING
RP	120/ 208	3	4	400 A	300A	22,000
100% NEUTRAL	CODE: L=LIGHTING, R=RECEPTACLE, M=MOTOR, E=EQUIPMENT					SURFACE MOUNTING TRIM
NEMA 1	COPPER GROUND BAR					

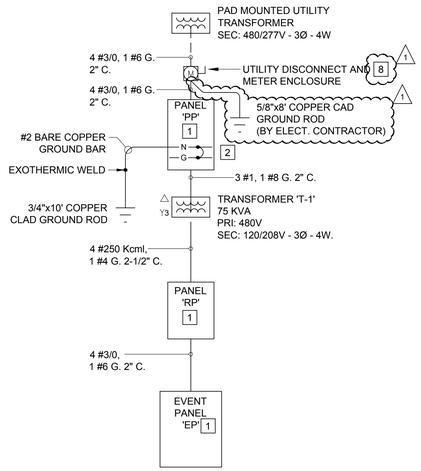
LOAD	CODE	POLE	BKR	CKT#	A	B	C	CKT#	BKR	POLE	CODE	LOAD
RESTROOM EXT. RECEPTS.	R	1	20	1	200							
					19300			2	200	3	R	EVENT PANEL 'EP'
RESTROOM DRINK FOUNTAIN	R	1	20	3		400						
						19300		4	-	-	R	
RESTROOM INT. RECEPTS.	R	1	20	5			400					
							19300	6	-	-	R	
STORAGE RECEPTS.	R	1	20	7	600							
					200			8	20	1	R	COUNSEL OUTDOOR RECEPT.
SPARE	R	1	20	9								
								10	20	1	R	SPARE
SPARE	R	1	20	11								
								12	20	1	R	SPARE
0	PHASE A		RECEPT-VA @ per NEC		34,850	TCL VA						39,400
19,700	PHASE B		LIGHTS-VA @ 100%		-	DEMAND VA						34,850
19,700	PHASE C		MOTOR-VA @ 95%		-	HI-PH CONN. A						164
39,400	TCL		EQUIP-VA @ 100%		-	DEMAND A						97

PANEL NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	AIC RATING
PP	277/ 480	3	4	225 A	200A	22,000
100% NEUTRAL	CODE: L=LIGHTING, R=RECEPTACLE, M=MOTOR, E=EQUIPMENT					SURFACE MOUNTING TRIM
NEMA 1	COPPER GROUND BAR, ISOLATED GROUND BAR, TVSS					

LOAD	CODE	POLE	BKR	CKT#	A	B	C	CKT#	BKR	POLE	CODE	LOAD
LIGHTING CIRCUIT - 1	R	1	20	1	225							
					400			2	20	1	R	LIGHTING CIRCUIT - 2
LIGHTING CIRCUIT - 3	R	1	20	3		325						
						3400		4	20	2	R	LIGHTING CIRCUIT - 4
SPARE	R	1	20	5			3400	6	-	-	R	
SPARE	R	1	20	7								
								8	20	1	R	SPARE
SPARE	R	1	20	9								
						500		10	20	1	R	LIGHTING CONTACTOR "LC-1"
SPARE	R	1	20	11								
								12	20	1	R	SPARE
XFMR 'T-1'	R	3	125	13	25000			14	20	1	R	SPARE
	R	-	-	15		25000		16	20	1	R	SPARE
	R	-	-	17			25000					
							130	18	20	1	R	SMALL SHELTER
FOUNTAIN CONTROL PANEL	R	3	20	19	11100							
					160			20	20	1	R	LARGE SHELTER
	R	-	-	21		11100						
								22	20	1	R	SPARE
	R	-	-	23			11100					
								24	20	1	R	SPARE
36,885.00	PHASE A		RECEPT-VA @ per NEC		63,420	TCL VA						116,840.00
40,325.00	PHASE B		LIGHTS-VA @ 100%		-	DEMAND VA						63,420.00
39,630.00	PHASE C		MOTOR-VA @ 95%		-	HI-PH CONN. A						145.34
116,840.00	TCL		EQUIP-VA @ 100%		-	DEMAND A						76.37

PANEL NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	AIC RATING
EP	120/ 208	3	4	200 A	200A	22,000
100% NEUTRAL	CODE: L=LIGHTING, R=RECEPTACLE, M=MOTOR, E=EQUIPMENT					SURFACE MOUNTING TRIM
NEMA 3R	COPPER GROUND BAR					

LOAD	CODE	POLE	BKR	CKT#	A	B	C	CKT#	BKR	POLE	CODE	LOAD
GFI RECEPT. AT EVENT PANEL	R	1	20	1								
								2	20	1	R	GFI RECEPT. AT EVENT PANEL
GFI RECEPT. AT EVENT PANEL	R	1	20	3								
								4	20	1	R	GFI RECEPT. AT EVENT PANEL
GFI RECEPT. AT EVENT PANEL	R	1	20	5								
								6	20	1	R	GFI RECEPT. AT EVENT PANEL
GFI RECEPT. AT EVENT PANEL	R	1	20	7								
								8	20	1	R	GFI RECEPT. AT EVENT PANEL
NEMA 6-30R RECPT.	R	2	30	9								
								10	30	2	R	NEMA 6-30R RECEPT.
	R	-	-	11								
								12	-	-	R	
NEMA 6-30R RECPT.	R	2	30	13								
								14	20	1	R	SPARE
	R	-	-	15								
								16	20	1	R	SPARE
SPARE	R	1	20	17								
								18	20	1	R	SPARE
EP CAM LOCKS (100A)	R	3	20	19								
								20	20	3	R	
	R	-	-	21								
								22	-	-	R	EP CAM LOCKS (100A)
	R	-	-	23								
								24	-	-	R	
0	PHASE A		RECEPT-VA @ per NEC		-	TCL VA						0
0	PHASE B		LIGHTS-VA @ 100%		-	DEMAND VA						0
0	PHASE C		MOTOR-VA @ 95%		-	HI-PH CONN. A						0
0	TCL		EQUIP-VA @ 100%		-	DEMAND A						0



ONE-LINE DIAGRAM

SCALE: N.T.S.

LIGHTING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	FIXTURE DIFFUSER	VOLT.	INPUT WATTS	LAMP # & WATTS	LAMP TYPE	MOUNTING TYPE	MOUNTING HT.	MANUFACTURER NAME	MANUFACTURER SERIES NO.	REMARKS
6 A	PEDESTRIAN	ACRYLIC	277	24	1-24	LED	POLE	12'-0"	WE-EF LIGHTING	661-5225-277-RAL8019-661-9321-693-1223	350mA DRIVE CURRENT, TYPE 2 DISTRIBUTION, 12'-4" STRAIGHT ROUND POLE, 4" DIAMETER
B	PARKING LOT		480	486	1-400	MH	POLE				EXISTING POLE & FIXTURE
C	WALL PACK	ACRYLIC	277	185	1-150	MH	WALL		LITHONIA	WSQ-150M-MD-277-LPI	
D	INDUSTRIAL	ACRYLIC	277	58	2-F32	T8	SURFACE		LITHONIA	E1S-2-32-277-GEB10PS	
5 E	COLUMN UPLIGHT	ACRYLIC	277	18	1-18	LED	PENDANT		V2 LIGHTING	Q4SY-DCV-W-13-80-40-41-TB-YK-BK	
5 F	DOWNLIGHT	ACRYLIC	277	29	1-29	LED	PENDANT		V2 LIGHTING	Q4SP-DCV-W-20-80-40-83-TB	

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TRIM TYPES, COORDINATE WITH REFLECTED CEILING PLANS

FEEDER SCHEDULE

MARK	FEEDER	CONDUIT	FROM	TO
A	SEE ONE-LINE	SEE ONE-LINE	UTILITY XFMR	PANEL 'PP'
B	(3) #8, (1) #10G	1"	PANEL 'PP'	FOUNTAIN PUMP CONTROL PANEL
C	BY UTILITY	BY UTILITY	UTILITY POLE	UTILITY TRANSFORMER
D	(2) #8, (1) #10G	1"	PANEL 'PP'	LIGHT CIRCUIT-1
E	(2) #8, (1) #10G	1"	PANEL 'PP'	LIGHT CIRCUIT-2
F	(2) #8, (1) #10G	1"	PANEL 'PP'	LIGHT CIRCUIT-3
G	(2) #8, (1) #10G	1"	PANEL 'PP'	LIGHT CIRCUIT-4
H	SEE ONE-LINE	SEE ONE-LINE	PANEL 'RP'	EVENT PANEL 'EP'
7 I		EMPTY 1"	PANEL 'PP'	FUTURE ART AREA 1
7 J		EMPTY 1"	PANEL 'PP'	FUTURE ART AREA 2
7 K		EMPTY 1"	PANEL 'PP'	FUTURE ART AREA 3
7 L		EMPTY 1"	PANEL 'PP'	FUTURE ART AREA 4
7 M		EMPTY 1"	PANEL 'PP'	FUTURE ART AREA 5
4 O	(2) #10, (1)#10 G	1"	PANEL 'PP'	LARGE SHELTER (LTG.)
4 P	(2) #10, (1) #10 G	1"	PANEL 'PP'	SMALL SHELTER (LTG.)
Q	(2) #10, (1) #10 G	1"	PANEL 'PP'	ENTRANCE SIGN
R	MANUF. SUPPLIED	2-1/2"	PUMP CONTROL PANEL	LAKE AREA
3 S	(2) #4, (1) #10 G	1"	PANEL "RP"	COUNSEL RING
4 T	(2) #8, (1) # 10G	1"	PANEL "RP"	LARGE SHELTER (RECPT)
4 U	(2) #4, (1) # 10G	1"	PANEL "RP"	SMALL SHELTER (RECPT)

KEYED NOTES (THIS SHEET ONLY):

1. REFER TO THIS SHEET FOR PANEL SCHEDULES.
2. REFER TO SHEET E500 FOR EVENT PANEL DETAIL.
3. RECEPTACLE, CABLE AND CONDUIT ASSOCIATED WITH COUNCIL RING ARE PART OF ALTERNATE BID #4.
4. THE CABLE AND CONDUIT TO SHELTERS ARE PART OF ALTERNATE BIDS #1 AND #2.
5. SHELTER LIGHTS ANS ALL ASSOCIATED CONNECTIONS ARE PART OF ALTERNATE BIDS #1 AND #2.
6. PEDESTRIAN LIGHTS ARE PART OF ALTERNATE BID #5. ASSOCIATED CABLE AND CONDUIT ARE PART OF BASE BID.
7. CAP EMPTY CONDUIT ENDS.
1. 8. METER FURNISHED AND INSTALLED BY UTILITY. UTILITY DISCONNECT SWITCH FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

SPECIAL NOTE TO CONTRACTOR(S):

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE, ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

08-03-2015 - BID DOCUMENTS / PERMIT SET

DWG: T:\1510701-JoplinMercyParkDD\Cad\E\1510701-Electrical Plans.dwg
PAGE SETUP NAME: CTB - Hs_Fillstrs.ctb
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CITY OF JOPLIN MISSOURI

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FOR BIDDING PURPOSE ONLY
NOT FOR CONSTRUCTION

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Horner & Shifrin, Inc.
Missouri State Certificate of Authority #000159

KEY PLAN

Issuances

No.	Description	Date
01	Bid Documents / Permit Set	08/03/15

Revisions

No.	Description	Date
1	ADDENDUM #3	08/18/15

SWT No. 20288.01.000

Drawn DAB | Reviewed JCF

Sheet Title
ELECTRICAL SCHEDULES

Number
E600