

RFB TO-21-05  
QSS Digital Signage  
Questions and Answers #2  
October 13, 2020

- Q1. Can the proposer suggest that the digital display products they propose are rated for 5-year usage and proposer can show that they have capabilities and references of supporting digital signage for 10 years plus?
- A1. Yes. All hardware and equipment, excluding consumable material, must be certified to have a five-year minimum service life to withstand all weather-related elements. Ten-year service life is not required.
- Q2. Is there a preference of size of the interior displays if LCD? Please be specific on what size, orientation and location of where the signs would be installed.
- A2. Each display unit will need to exhibit text information in such a way as to be Americans with Disabilities Act (ADA) compliant based on display, size, location, and text sizes. Please see Addendum 1 for interior and exterior display unit locations.
- Q3. Is there more defined information on where the interior and exterior signs would be installed? Is there power and networking cable available at each display unit location or is this an item that the installer would have in their scope?
- A3. Yes. Please see Addendum 1 for interior and exterior display unit locations. Power is available at some display unit locations but not all. Installer will be responsible for running power workload on As-Built Plans. See pages 3-10.
- Q4. Where is the CMS application to be installed? Is the CMS to be on premise and who is responsible for the computer and networking of the digital display system?
- A4. Given the requirement for the CMS to be accessible from mobile devices, Topeka Metro expects a cloud-based CMS solution.
- Q5. Is Topeka Metro intending to supply the content layouts to be displayed?
- A5. Topeka Metro will display web pages, text from data feeds, and announcements. Topeka Metro will provide the text, pictures, content, etc. The CMS should handle the layout.

- Q6. There is only mention of what Metro bus data is available from the DoubleMap CAD system. To make assurances that our CMS application can accommodate the request, we would need more information and sample data of the bus information that would be needed for the CMS to consume and display on the signs. Can this be made available?
- A6. **Topeka Metro will work with DoubleMap to make this data available.**
- Q7. What is the anticipated award date after RFP due date?
- A7. **Within three months of the Bid Deadline of October 29, 2020.**
- Q8. Is there an expected completion date of the project?
- A8. **By June 30, 2021. Please enter the estimated start and complete dates on the Price Quote Form.**
- Q9. Is there a way a prospect looking at this RFP be alerted of a new addendum on this project? Or does it require to look at the Metro RFP webpage manually? Is there a pre bid meeting sign-in sheet and plan holders list that can be made available to we can see on who we can team up with the provide a competitive proposal?
- A9. **Prospective bidders who have supplied Topeka Metro with their contact information will be notified when anything is posted to our website regarding this project. The contact information for any Pre-Bid Meetings attendees either in person or via Zoom will be posted to our website.**
- Q10. Is Topeka Metro interested in a proposal without the installation scope? Signs and CMS with technical support to establish the digital display system.
- A10. **No.**
- Q11. Will kiosks need audio announcements for arrival notifications and/or schedule notifications?
- A11. **Kiosks do not need to be interactive and do not need to be verbal.**

## SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
	SERVICE FLUSH FLOOR BOX WITH (1) 20A, 125V, DUPLEX RECEPTACLE, (1) 20A, 125V, DUPLEX ISOLATED GROUND RECEPTACLE AND PROVISIONS FOR COMMUNICATIONS VIA 1" C. FROM SIDE ACCESS TO ABOVE NEAREST ACCESSIBLE CEILING. FLOOR BOX SHALL BE STEEL CITY #665 WITH (3) #665-RP FACE PLATES, #664-WT WIRE TUNNEL, AND #665-C1 CARP1 PLATE, OR EQUAL BY HUBBELL, PROVIDE BRASS COVER.
	SERVICE FLUSH FLOOR BOX WITH (1) 20A, 125V, DUPLEX RECEPTACLE, AND PROVISIONS FOR COMMUNICATIONS VIA 1" C. FLOOR BOX SHALL BE STEEL CITY #664 WITH (1) #664-RP FACE PLATES, #664-WT WIRE TUNNEL, AND TILE PLATE, OR EQUAL BY HUBBELL, PROVIDE BRASS COVER.
	BOOK MOBILE ELECTRICAL SERVICE, PROVIDE FLUSH MOUNTED NEMA-3R LOCKABLE 18"x18"x4" BOX, MOUNT BOX IN POLE BASE, PROVIDE 60A, 240V, NEMA-3R DISCONNECT SWITCH WITH NEMA 14-SOR RECEPTACLE 120/250V 3P, 4W. FIELD VERIFY ALL REQUIREMENTS WITH OWNER.
	BOOK MOBILE TELEPHONE SERVICE, PROVIDE ONE TELEPHONE FS BOX IN THE SAME LOCKABLE POWER BOX (MOUNTED IN POLE BASE), PROVIDE TWO TELEPHONE OUTLETS (R45) FIELD VERIFY ALL REQUIREMENTS WITH OWNER.
	CHILD SAFETY RECEPTACLE: 20A, 125V, DUPLEX GROUND RECEPTACLE WITH TAMPER RESISTANT SAFETY SHUTTER, P & S #5663 SERIES OR APPROVED EQUAL.

## LIGHTING FIXTURE SCHEDULE

(P.E.C.)

FIXT.	MANUFACTURER	CATALOG NUMBER	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP TYPE	LENS/COVER/FINISH	W	L	D
A3	WILLIAMS	18-SP20C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
A3E	WILLIAMS	500-524-3320C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
A4	WILLIAMS	18-SP20C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
A4E	WILLIAMS	500-524-3320C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
CJ	WILLIAMS	18-SP20C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
D3	WILLIAMS	18-SP20C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
D3E	WILLIAMS	500-524-3320C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
EB	HUBBELL	HEE-25-2-R12H	LITHONIA	ELU2PWLW-H1212	12W HINGERS HUBBELL	250W MH	WHITE	1.0	1.0	
F	ELLIPTIPAR	M454-0250-W-02-10-10	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
F1	ELLIPTIPAR	M454-0250-W-02-10-10	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
F2	ELLIPTIPAR	M454-0250-W-02-10-10	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
F4	WILLIAMS	18-SP20C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
F4E	WILLIAMS	500-524-3320C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
H1	FAIR SAFE	FRR-225-83	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
H1E	FAIR SAFE	FRR-225-83	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
HE	HALO	1871E-9871-L	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
HF	HALO	1871E-9871-L	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
HR	HALO	1871E-9871-L	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
HRE	HALO	1871E-9871-L	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
MB	HALO	1871E-9871-L	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
MC	HALO	1871E-9871-L	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
P	INC LAMPHOLDER	100W MH-19	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
P2	INC LAMPHOLDER	100W MH-19	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
P4H	INC LAMPHOLDER	100W MH-19	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
R1	ELLIPTIPAR	M454-0250-W-02-10-10	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
R2	ELLIPTIPAR	M454-0250-W-02-10-10	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
S	CP3330		LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
S1	ELLIPTIPAR	M454-0250-W-02-10-10	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
S2	CASABLANCA	350MT-9	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
T	LITHONIA	18-SP20C-SMA125	LITHONIA	20C-332-A125	20A LAY-IN	F032/B35	ACRUC	2.0	4.0	
V4	FAIR SAFE	FRR-225-83	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
V4E	FAIR SAFE	FRR-225-83	LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
Z	AF121-250-BL-P		LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	
Z1	AF121-250-BL-P		LITHONIA	AF-2-260T-BAR	260W DTT/35K 4-PIN	250W MH	WHITE	1.0	1.0	

- GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE.
- LIGHT FIXTURES SHALL BE PROVIDED WITH ELECTRONIC BALLASTS. COMPACT FLUORESCENT ELECTRONIC BALLASTS SHALL HAVE END-OF-LIFE PROTECTION CIRCUIT TO PREVENT MELTING OF LAMPS IN SOCKETS OR LAMP BREAKAGE. SEE THE SPECIFICATIONS.
- PROVIDE ARROWS AND FACES AS INDICATED ON THE DRAWINGS.
- MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.
- LIGHT FIXTURE SELECTIONS ARE BASED ON THE MANUFACTURER IN THE LEFT MOST COLUMN AS LISTED IN THE SCHEDULE. FIXTURES APPROVED AS EQUALS IN THIS SCHEDULE OR BY ADDENDUM SHALL BE EQUAL TO THE UNIT SPECIFIED IN THE LEFT MOST COLUMN, IE: SPRING LOADED LATCHES, POST PAINTED FINISH, AND PHOTOMETRICS.

## GENERAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
- REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
- C.C. SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
- COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
- ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
- CONDUIT RUN W/CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250.122 (1999). CONDUIT SIZE AS REQUIRED.
- WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUIT SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
- "C" INDICATED ADJACENT TO DEVICE INDICATES DEVICE MOUNTED ABOVE BACKSPLASH OR COUNTER TOP. VERIFY EXACT HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF A "VAC DIFFUSER (SUPPLY OR RETURN), IN A DIRECT AIR FLOW OR WITHIN 36" OF A SPRINKLER HEAD. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTER LINE OF THE DOOR AND A MAXIMUM OF 5' FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR IS THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".
- LABEL REMOTE ALARM INDICATOR FOR DUCT MOUNTED SMOKE DETECTORS (E: RTU-1 SUPPLY, RTU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DETECTORS SHOULD BE LOCATED IN THE AREA BETWEEN 8' AND 10' DUCT EQUIVALENT DAMPERS IF STRAIGHT, UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRST INLET OR OUTLET DOWNSTREAM OF THE DAMPER.
- FAN SHUTDOWN LAMP WIRING SHALL BE LOCATED WITHIN 3 FEET OF THE FAN CONTROLS AND THE WIRING TO THIS RELAY SHALL BE MONITORED.
- PROVIDE 120V POWER AND FUSIST FOR EACH FIRE/SMOKE DAMPER. INTERLOCK WITH FIRE ALARM CONTROL PANEL TO CLOSE FIRE/SMOKE DAMPER UPON ANY ALARM AT THE FIRE ALARM CONTROL PANEL AND TO SHUTDOWN ASSOCIATED MECHANICAL UNIT.
- CASH DATA, TELEPHONE, VIDEO, OR OTHER SYSTEMS OUTLET REQUIRES 1" C. WITH PULL ROPE STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED ON PLANS. CONDUITS STUBBED UP ABOVE CEILINGS SHALL BE TURNED OUT 90°. PROVIDE INSULATED BUSHINGS ON ALL CONDUITS. LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (E: TELEPHONE, DATA, ETC.).
- THE COLOR OF ISOLATED GROUND RECEPTABLES AND COVERPLATES SHALL MATCH THOSE OF OTHER DEVICES ON THE JOB. COVERPLATES SHALL BE ENGRAVED "COMPUTER".
- PROVIDE 18" LONG (MIN.) CONDUIT SLEEVES THRU ALL WALLS WHERE CABLES ARE INDICATED OR REQUIRED TO PASS THRU WALLS. PROVIDE BUSHINGS ON BOTH ENDS. SIZE CONDUIT FOR CABLES INSTALLED. AT CABLE TRAYS, PROVIDE ONE 4" CONDUIT SLEEVE FOR EACH 4" WIDTH OF CABLE TRAY.

## SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
	LIGHT FIXTURE & FIXTURE LETTER	CEILING
	STRIP LIGHT FIXTURE & FIXTURE LETTER	CEILING
	LIGHT FIXTURE & FIXTURE LETTER	CEILING
	LIGHT FIXTURE & FIXTURE LETTER	WALL
	EXIT LIGHT (SHADING DENOTES EXIT FACE SIDE)	CEIL./WALL
	LIGHT FIXTURE & FIXTURE LETTER	WALL
	EMERGENCY BATTERY LIGHT FIXTURE	CEIL./WALL
	SWITCHES (1-POLE, 2-POLE, 3-WAY, 4-WAY)	46" AFF
	CEILING FAN	CEILING
	INDICATES SWITCHING SCHEME	
	WEATHERPROOF	
	SEE GENERAL NOTE 9	
	ABOVE FINISHED FLOOR	
	DRINKING FOUNTAIN	
	UNLESS OTHERWISE NOTED	
	NIGHT LIGHT	
	DUPLEX GROUND RECEPTACLE	17" AFF
	CIG-MTD DUPLEX GROUND RECEPT.	CEILING MTD
	DOUBLE DUPLEX GROUND RECEPTACLE	17" AFF
	ISOLATED GROUND RECEPTACLE (GEN NOTE 15)	17" AFF
	DOUBLE DUPLEX ISOLATED GROUND REC. (GEN NOTE 15)	17" AFF
	GROUND FAULT DETECTOR RECEPTACLE	17" AFF
	SPECIAL OUTLET (SEE SCHEDULE OR AS NOTED)	FLOOR/WALL
	SPECIAL DEVICE (AS NOTED)	
	JUNCTION BOX	
	FUSIST BUSSES	
	BRANCH CIRCUIT PANEL & PANEL DESIG. 72" TO TOP	
	ELECTRICAL DISTRIBUTION EQUIPMENT	
	FELDER DESIGNATION	
	CONDUIT RUN 7/12 & 1/12 GRD.-1/2"	CEIL./WALL
	CONDUIT RUN 7/12 & 1/12 GRD.-3/4"	EARTH/FLOOR
	MASTER/SLAVE FIXTURE WHIP	CEILING
	CONDUIT RUN 2 CIRCUITS 3/12 & 1/12 GRD.-3/4"	EARTH/FLOOR
	CONDUIT RUN PARTIAL CIRCUIT	
	SEE GENERAL NOTE 7, 8	
	CONDUIT RUN TWO (2) CIRCUITS	CEIL./WALL
	PHASE CONDUCTORS (#12 UOM)	
	NEUTRAL CONDUCTOR (#12 UOM)	
	SWITCH LEGS (#12 UOM)	
	GROUND CONDUCTOR (#12 UOM)	
	ISOLATED GROUND CONDUCTOR (#12 UOM)	
	PA/SOUND SYSTEM W/RACK OR SHELF	FLOOR/WALL
	CEILING MOUNTED SPEAKER	CEILING
	CEILING MOUNTED SPEAKER VANDAL RESISTANT	CEILING
	VOLUME CONTROL	46" AFF
	SYSTEM CLOCK (A=ANALOG, D=DIGITAL)	WALL
	PUSH BUTTON	
	MICROPHONE OUTLET	
	DOOR ELECTRIC STRIKE	DOOR
	FIRE ALARM CONTROL PANEL	WALL
	FIRE ALARM MANUAL STATION	46" AFF
	FIRE ALARM HORN	80" TO BOTTOM
	FIRE ALARM VISUAL SIGNAL	80" TO BOTTOM
	COMD. F.A. HORN & VISUAL SIGNAL	80" TO BOTTOM
	F.A. RELAY (GEN NOTE 12)	
	PHOTO EYE/AREA SMOKE DETECTOR (GEN NOTE 10)	CEILING
	DUCT SMOKE DETECTOR (GEN NOTE 11)	DUCTWORK
	HEAT DETECTOR (GEN NOTE 10)	CEILING
	ELECTROMAGNETIC DOOR HOLDER	WALL
	DUCT SMOKE DETECTOR & FIRE/SMOKE DAMPER (GEN NOTE 11 & 13)	
	COMB. VOICE/DATA OUTLET (GEN NOTE 14)	17" AFF
	VOICE OUTLET (GEN NOTE 14)	17" AFF
	CABLE TV OUTLET (GEN NOTE 14)	17" AFF
	PAY	42" AFF
	WALL	46" AFF
	4" CONDUIT SLEEVE (GEN NOTE 16)	
	DOOR CONTACT, 3/4" C. W/PULL WIRE TO ABOVE	
	CEILING, SIMILAR TO DTL. 7/E400.	
	SECURITY CAMERA	
	PANIC PUSH BUTTON	
	PIR MOTION DETECTOR	
	BURGLAR SYSTEM KEYPAD	



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Topeka Metropolitan  
Transit Authority  
Bus Transfer Facility

Topeka, Kansas

ELECTRICAL LIGHTING SCHEDULE  
AND SYMBOL LIST

ORIGINAL CONTRACT DOCUMENTS

ISSUE DATE: 8-29-2001  
ARCH. PROJ. NO.: 99-32

E100  
SHEET NO.









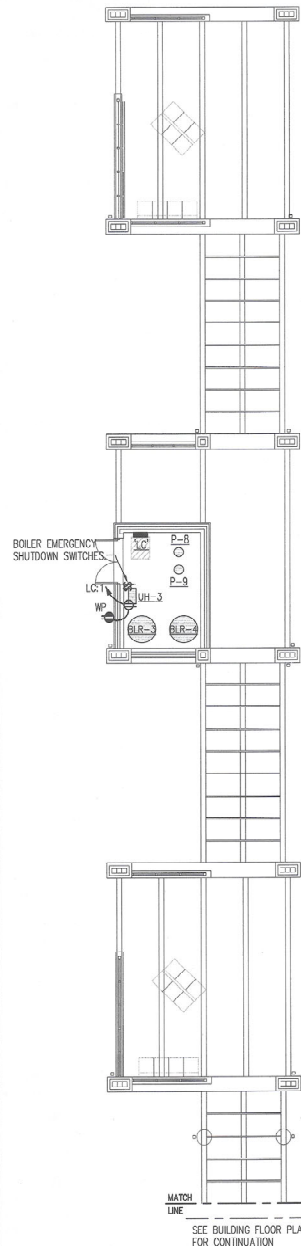
# PLAN NOTES:

- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS FOR CLARITY ONLY. CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUIT HOME RUNS. (3 CIRCUITS MAXIMUM). A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- PROVIDE ALL ISOLATED GROUND CIRCUITS WITH INDIVIDUAL NEUTRAL CONDUCTORS.
- FIELD VERIFY THE EXACT LOCATION OF ALL FLOOR BOXES AND WITH ARCHITECT PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL FOR EXACT CLOCK LOCATION.
- CLOCK TOWER SHALL BE CONTROLLED AND TIE IN TO BUILDING CLOCK SYSTEM. REFER TO ARCHITECTURAL FOR TOWER CLOCK SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY SECURITY, CCTV, AND FIRE ALARM SYSTEMS WITH OWNER, SECURITY, CCTV, AND FIRE ALARM SYSTEMS PROVIDED AND INSTALLED BY OTHERS. ALL CONDUITS AND PULL BOXES BY E.C.

SEE SHELTER FLOOR PLAN  
FOR CONTINUATION

NORTH MECH. ATTIC POWER FLOOR PLAN  
SCALE 1/8"=1'-0"

SOUTH MECH. ATTIC POWER FLOOR PLAN  
SCALE 1/8"=1'-0"



SHELTER POWER FLOOR PLAN  
SCALE 1/8"=1'-0"

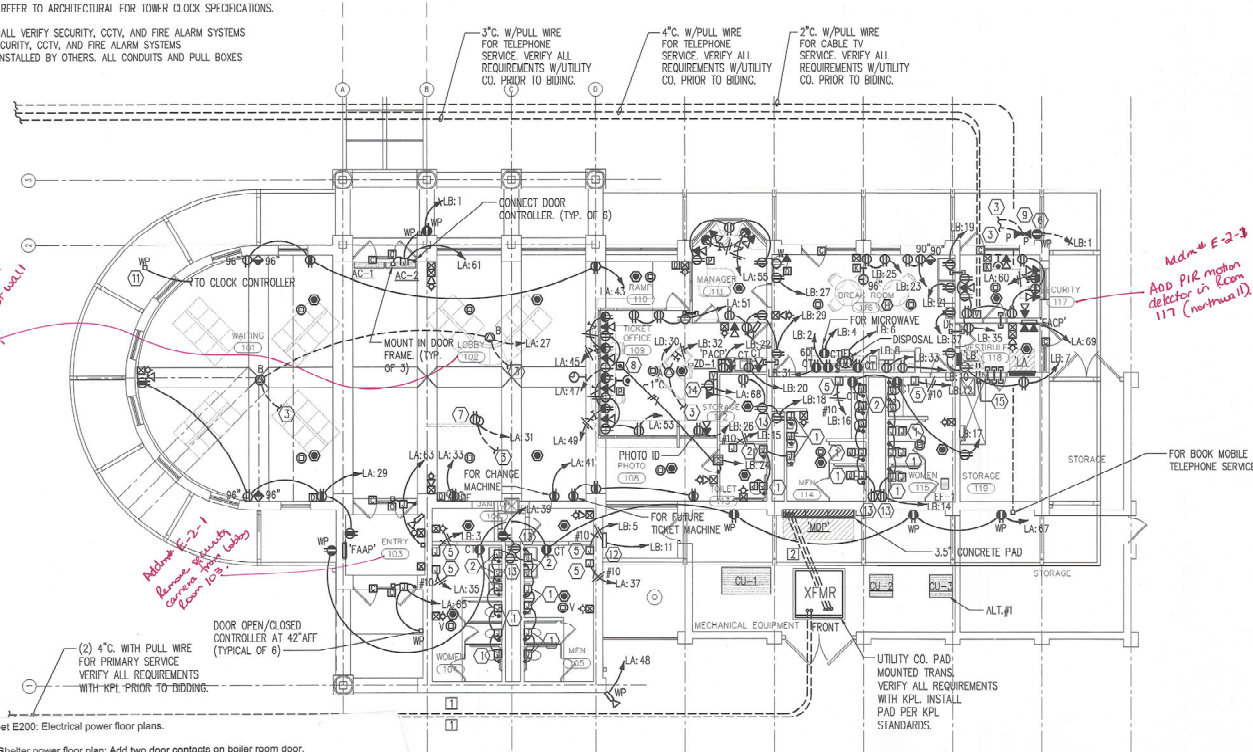
## 2. Sheet E200: Electrical power floor plans.

- Shelter power floor plan: Add two door contacts on boiler room door.
- Add one security monitor in the Manager Room 111 and one security monitor in the ticket office Room 109. Run 1" conduit with pull wire from each location to the security control panel. Field verify location with owner.
- Relocate security control panel from Room 109 to Room 112 (south wall). Provide two 20 A duplex receptacles and connect to circuit LA: 68. Provide two telephone lines for monitoring Fire Alarm/Intrusion System. Connected power supply for CCTV next to the security control panel in Room 112 to circuit LA: 68.
- Add one horn (part of the Intrusion Alarm System) in Room 109 next to security camera.
- Add the following Note: "Fire Alarm control panel (FACP) and Fire Alarm annunciator panel (FAAP) shall be installed by Electrical Contractor".
- Add one 1" conduit pull wire between security control panel and Fire Alarm control panel.
- Add one door contact on door # 109b.
- Add four (6) 1" conduit from security control panel to above ceiling. Provide plastic bushing at end of each conduit.

ADD 111-3

## POWER FLOOR PLAN

SCALE 1/8"=1'-0"



# KEYED NOTES:

- JUNCTION BOX FOR FLUSH VALVE. CONNECT AUTOMATIC FLUSH VALVE. FIELD VERIFY LOCATION WITH FLUSH VALVE PROVIDED PRIOR TO ROUGH-IN.
- JUNCTION BOX FOR AUTOMATIC FAUCET. CONNECT AUTOMATIC VALVE. FIELD VERIFY LOCATION WITH VALVE PROVIDED PRIOR TO ROUGH-IN.
- 1" WITH PULL WIRE TO CEILING VOID FOR TELE. DATA.
- PROVIDE VANDAL RESISTANT SPEAKER.
- JUNCTION BOX AT 44" AFF FOR HAND DRYER. HAND DRYER PROVIDED BY GENERAL CONTRACTOR.
- PROVIDE WEATHERPROOF LOCKABLE RECEPTACLE.
- INSTALL RECEPTACLE ON DISPLAY SIGN AS DIRECTED BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS. *Extend circuit to top of display case for display case lighting.*
- DOOR ELECTRIC STROKE PUSH BUTTON. REF: 112 TO ARCHITECTURAL FOR PUSH BUTTON EXACT LOCATION.
- FIELD VERIFY PUBLIC TELEPHONE LOCATION PRIOR TO ROUGH-IN.
- CLOCK SYSTEM CONTROLLER. PROVIDE AND INSTALL SIMPLEX CLOCK GPS SYSTEM 6810 OR APPROVED EQUAL. PROVIDE ADDITIONAL CONTACT TO ACCEPT TOWER CLOCKS. COORDINATE WITH TOWER CLOCK MANUFACTURER AND PROVIDE A COMPLETE AND FUNCTIONAL CLOCK SYSTEM.
- CLOCK GPS ANTENNA. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. FIELD VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE AND INSTALL 1 1/2" C. WITH PULL WIRE TO CLOCK CONTROLLER LOCATION IN STORAGE ROOM 119.
- WP IRRIGATION CONTROL PANEL. FIELD VERIFY LOCATION.
- RECEPTACLES FOR 50VA 120V PRI. TO 24V AC SEC. TRANSFORMER. MOUNT IN ACCESSIBLE LOCATION.
- SECURITY CONTROL PANEL. FIELD VERIFY LOCATION.
- UP TO MEZZANINE LEVEL. TO TELEPHONE TERMINAL BOARD.
- P-1P-2 VFD'S.



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Transit Authority  
Bus Transfer Facility

Topeka, Kansas

ELECTRICAL POWER  
FLOOR PLANS

ORIGINAL CONTRACT DOCUMENTS

ISSUE DATE: 9-28-2001

ARCH. PROJ. NO. 99-32

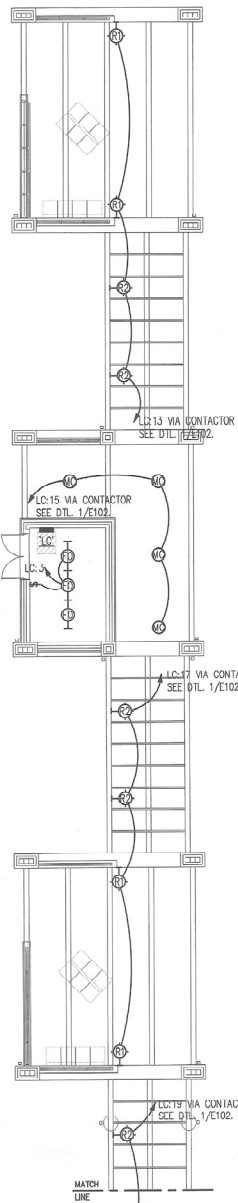
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SHEET NO.



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**SHELTER LIGHTING FLOOR PLAN**

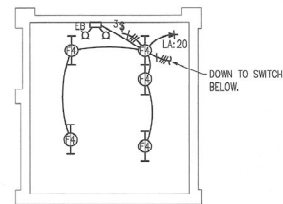
SCALE 1/8"=1'-0"

**PLAN NOTES:**

1. BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS FOR CLARITY ONLY. CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUIT HOME RUNS. (3 CIRCUITS MAXIMUM). A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
2. ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
3. ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.

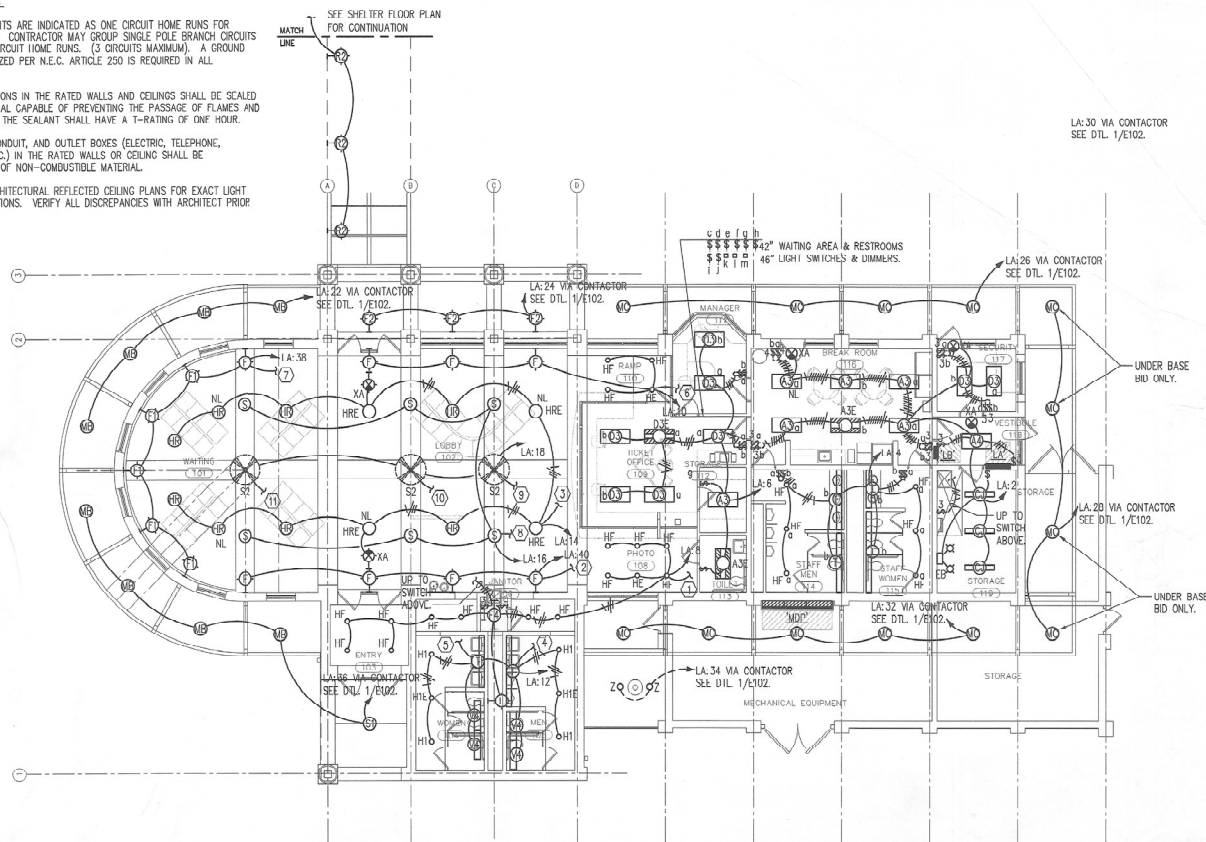
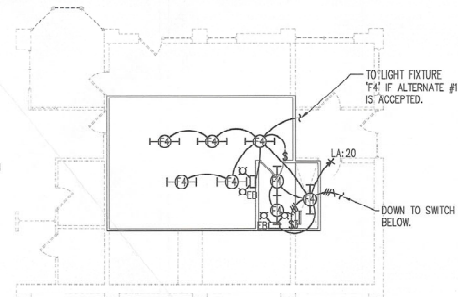
**NORTH MECH. ATTIC LTG. FLOOR PLAN**

SCALE 1/8"=1'-0"



**SOUTH MECH. ATTIC LTG. FLOOR PLAN**

SCALE 1/8"=1'-0"



**LIGHTING FLOOR PLAN**

SCALE 1/8"=1'-0"

**KEYED NOTES:**

- ① TO SWITCH 'e' IN RM. 109.
- ② TO SWITCH 'd' IN RM. 109.
- ③ TO SWITCH 'a' IN RM. 109.
- ④ TO SWITCH 'f' IN RM. 109.
- ⑤ TO SWITCH 'q' IN RM. 109.
- ⑥ TO SWITCH 'h' IN RM. 109.
- ⑦ TO SWITCH 't' IN RM. 109.
- ⑧ TO SWITCH 'j' IN RM. 109.
- ⑨ TO SPEED CONTROLLER 'v' IN RM. 109.
- ⑩ TO SPEED CONTROLLER 'y' IN RM. 109.
- ⑪ TO SPEED CONTROLLER 'm' IN RM. 109.



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**Topeka Metropolitan  
Transit Authority  
Bus Transfer Facility**

Topeka, Kansas

**ELECTRICAL LIGHTING  
FLOOR PLANS**

ORIGINAL CONTRACT DOCUMENTS

ISSUE DATE: 8-29-2001  
ARCH. PROJ. NO: 99-32

**E201**

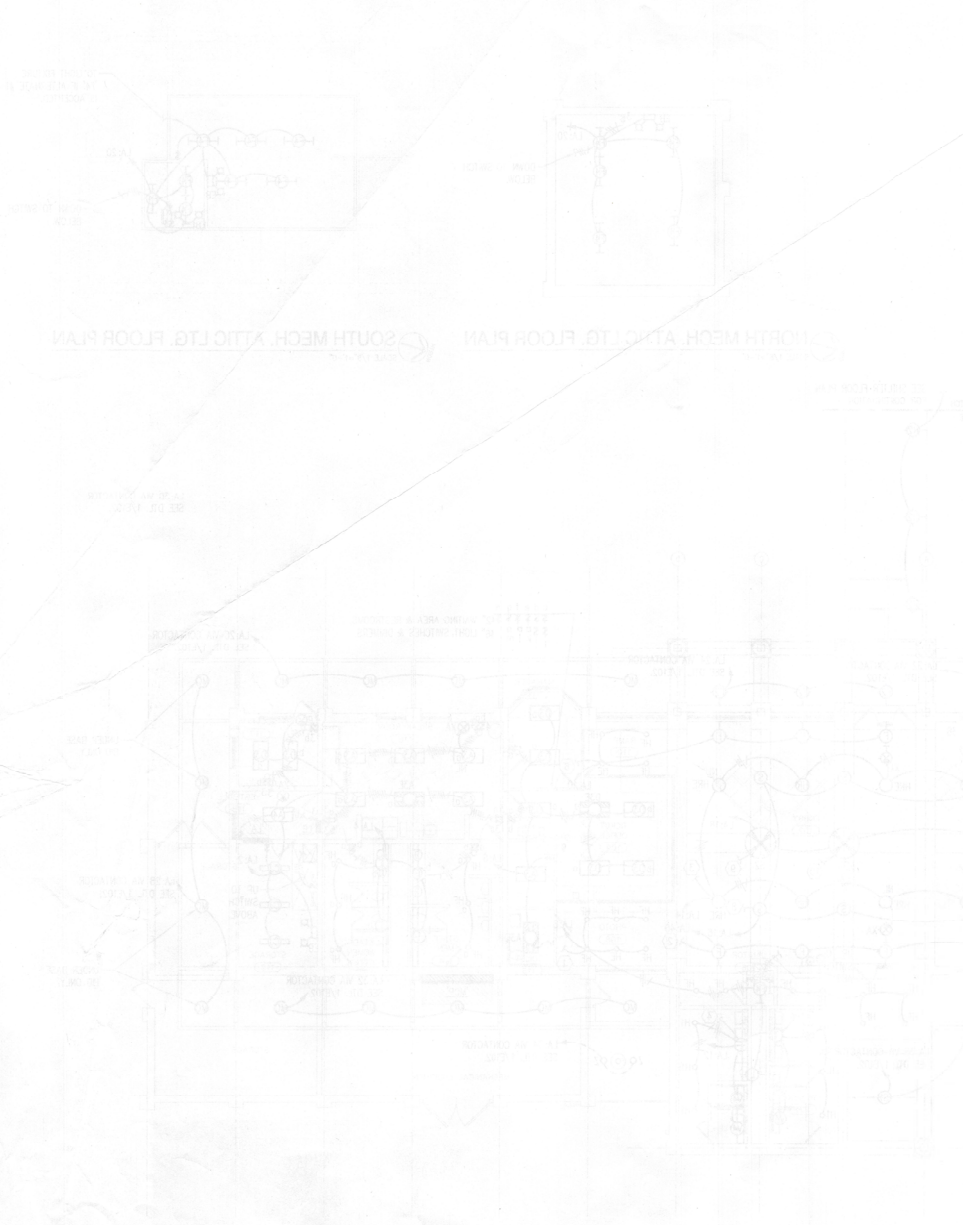
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1. 120V, 15A, 100' cable
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99. 120V, 15A, 100' cable
100. 120V, 15A, 100' cable



- Addm#3
3. Sheet E202: Electrical Alt. # 1.2 powerlighting floor plans.
    - a. Shelter power lighting floor plan - Alt. #2. Remove one light fixture 'R2'. Readjust light fixtures 'R2' to be evenly spaced.
    - b. Power Floor Plan - Alternate #1: Add one horn (part of the Intrusion Alarm System) in Room 142.
    - c. Driller room lighting floor plan - Alternate #2: Add the following Note: "Provide lower clocks - total of four to comply with the following:
      1. Clock shall be by Electric Time Company, Inc.  
Outdoor silhouette clock  
Model/Style 1000  
Aluminum markers  
Conventional wall marker mounting  
60" diameter  
Rear mount movement assembly  
Face: Type - L  
Hands: Type LS  
Finish: Matte Black
      2. Provide 120V, to each controller and connect controllers to clock GPS system in the building.

Topokan Metropolitan  
 Transit Authority  
 Bus Transfer Facility  
 Electrical Lighting  
 Floor Plan  
 E201

See Back of  
previous  
pag.



NOTE:  
CONTRACTOR SHALL CLEARLY LABEL EACH 120V. CIRCUIT  
CONDUCTOR AT EACH POLE AND JUNCTION BOX.

KAHSA

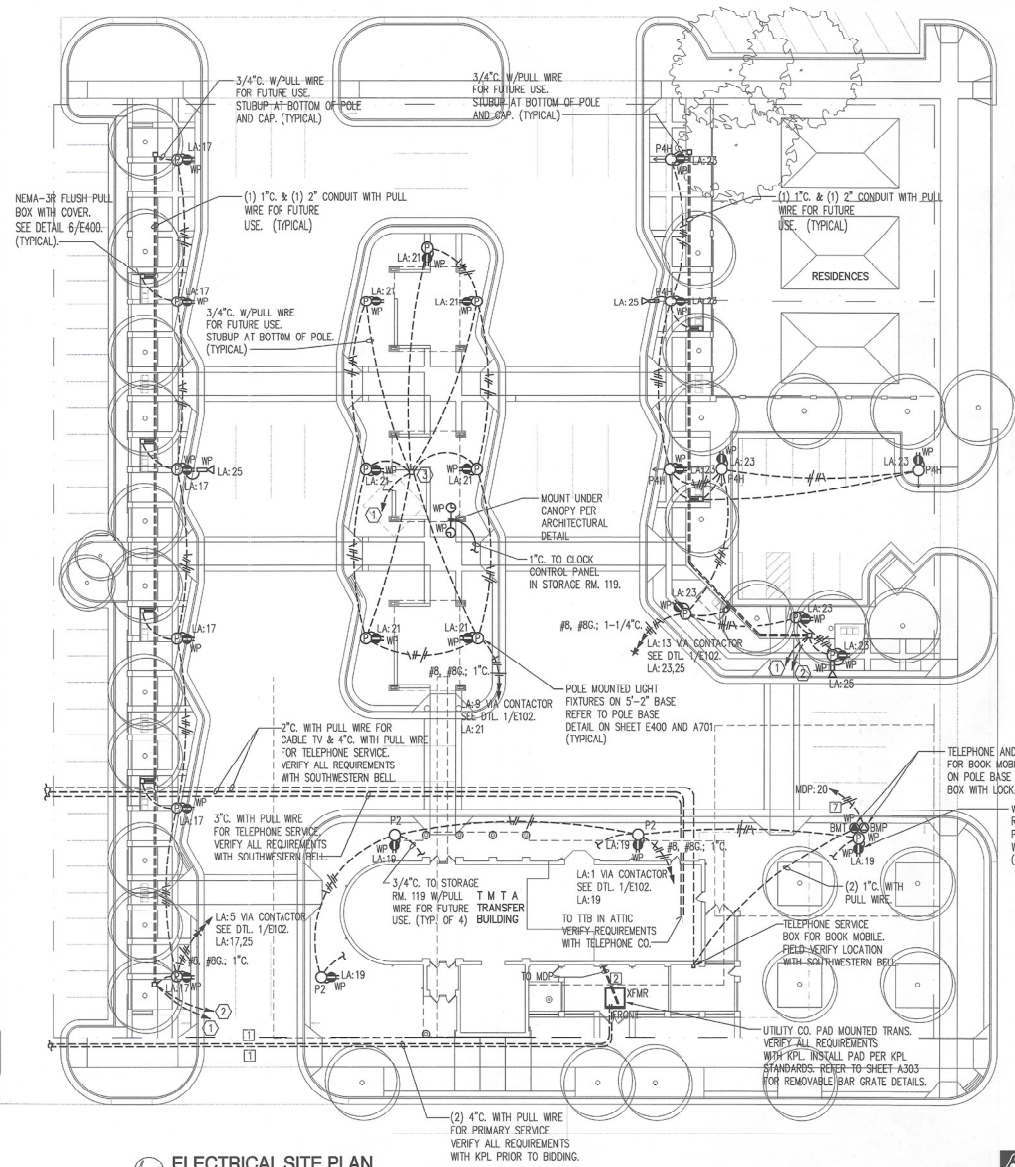
KANSAS  
HOSPITAL  
ASSOCIATION

CENTRAL  
NATIONAL BANK

MONROE STREET

9TH STREET

QUINCY STREET



- KEYED NOTES:**
- ① 2" C. WITH PULL WIRE TO STORAGE RM. 119. IN SOUTHEAST CORNER. STUB UP AND CAP FOR FUTURE USE.
  - ② 1" C. WITH PULL WIRE TO STORAGE RM. 119. IN SOUTHEAST CORNER. STUB UP AND CAP FOR FUTURE USE.
  - ③ SECURITY 24"x24"x12" PULL BOX. FIELD VERIFY LOCATION. UNDER ALTERNATE #2. LOCATE BOX ON NORTH WALL.

**ITEM E-300, SHEET E300, ELECTRICAL SITE PLAN**

1. Change conduit from pull box to light pole base to two (2) 1" conduits instead of (1) 3/4" conduit. (Typical of 25 locations.)
2. Change keyed note # 2 to "2 C. with pull wire to storage Room 119 in southeast corner. Stub up and cap for future use."
3. Change all conduit between NEMA 3R pull boxes from (1) 1" and (1) 2" to two (2) 2" C.

**4. Sheet E300, Electrical Site Plan:**

- a. Run 1" conduit with pull wire for video cable from security control panel to each CCTV camera. (Typical of 3 location).
- b. Run 1" conduit with pull wire for security cable from security control panel to Junction Box in the Boiler Room.



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**Topeka Metropolitan  
Transit Authority  
Bus Transfer Facility**

Topeka, Kansas

**ELECTRICAL SITE  
PLAN**

ORIGINAL CONTRACT DOCUMENTS

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SHEET NO.



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DSHP: MMH, CSES: MMH SCALE: 1"=20'-0"  
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