

KANSAS CITY AREA TRANSPORTATION AUTHOR CITY OF KANSAS CITY, MISSOURI KANSAS CITY STREETCAR AUTHORITY PORT AUTHORITY OF KANSAS CITY, MO KANSAS CITY STREETCAR

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RIVERFRONT EXTENSION FTA FAIN # MO-2022-002-00 KCATA PROJECT No.: 2021-SC-3P01 KCMO PROJECT No.: 89022015 ISSUED FOR BID DECEMBER 2022 (T49N, R33W)

https://www.kcata.org/about_kcata/entries/current_opportunities

This work will be called Package 6 (Pkg 6) and will be posted on KCATA's website for a General Contractor bid.

These plans have been separated into different packets to assist potential subcontractors in reviewing their potential scopes of work.

RIVER CHRIS BOND HEART AMERI BRIDG MISSOURI GUINOTTE AVE PROPOSED RIVERFRONT EXTENSION BRIDGE INDEPENDENCE AVE ST VEHICLE B MAINTENANCE LOCUST FACILITY Ē BEARDSLI I-70 AVE LENGTH OF PROJEC US PROSPECT BEGINNING OF PROJECT STA STA REE END OF PROJECT STA 1-35 STA ŝ PROJECT TRACK LENGTH 3,7 Z 3,65 МΑ EXISTING MAINLINE TOTAL TRACK LENGTH 7,44

APPROVED

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BY KCATA PROJECT MANAG	FR	
KCATA I NOJECT MANAG		
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KCMO DIRECTOR OF TRA	NSPORTATION	
KCMO CITY ENGINEER		
KCMO DIRECTOR OF PUB	LIC WORKS	
KANSAS CITY STREETCA	R AUTHORITY	
PORT AUTHORITY OF KA (PORT KC)	NSAS CITY, MISSOURI	
ENTRY NO.		This set of plans is not for construction. These plans are intended to build
113+00.00 NB MAINLINE 199+89.24 SB MAINLINE 150+82.51 NB MAINLINE 236+48.29 SB MAINLINE	FJS	interest in bidding 002 the project. FOR SCALE FOR 22*X34': NOT TO SCALE FILENAME: COOL doe
83 TF NB 59 TF SB 2 TF (1.4 MILES)	10450 Holmes Road Suite 600 Kansas City, MO 64131-3471 816-360-2700 Certificate of Authority: 000856	GOULAGN CONTRACT NO.: CONTRACT NO. *** VOLUME: DRAWING NO.: SHEET NO.: G001 1

DESCRIPTION GENERAL SHEETS SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 4 SHEET 4	# dwg TITLE 60 K304A SOUTHBOUND 115RE TRACK PROFILE 61 K305 NORTHBOUND 115RE TRACK PLAN AND PROFILE 62 K305A SOUTHBOUND 115RE TRACK PROFILE 63 K306 NORTHBOUND 115RE TRACK PLAN AND PROFILE 64 K306A SOUTHBOUND 115RE TRACK PROFILE	DESCRIPTION SB STA 211+00 TD STA 215+00 NB STA 125+00 TD STA 129+00 SB STA 215+00 TD STA 129+00 NB STA 129+00 TD STA 219+00 NB STA 129+00 TD STA 133+00 SB STA 219+00 TD STA 233+00
SHEET 2 SHEET 3 SHEET 4	62 K305A SOUTHBOUND 115RE TRACK PROFILE 63 K306 NORTHBOUND 115RE TRACK PLAN AND PROFILE	SB STA 215+00 TO STA 219+00 NB STA 129+00 TO STA 133+00
SHEET 2 SHEET 3 SHEET 4	62 K305A SOUTHBOUND 115RE TRACK PROFILE 63 K306 NORTHBOUND 115RE TRACK PLAN AND PROFILE	SB STA 215+00 TO STA 219+00 NB STA 129+00 TO STA 133+00
SHEET 3 SHEET 4		
SHEET 4	64 K306A SOUTHBOUND 115RE TRACK PROFILE	SB STA 219+00 TO STA 223+00
		TRACK DETAILS
SHEET 1 OF 2	65 K901 TRACK SLAB DETAILS	DETAIL SHEET 1 OF 5
SHEET 2 OF 2	66 K902 TRACK SLAB DETAILS	DETAIL SHEET 2 OF 5
	67 K903 TRACK SLAB DETAILS	DETAIL SHEET 3 OF 5
	68 K904 TRACK SLAB DETAILS	DETAIL SHEET 4 OF 5
	69 K905 TRACK SLAB DETAILS	DETAIL SHEET 5 OF 5
	70 K906 115 RE AND 112 TRAM RAIL SECTIONS	
	71 K907 TRANSITION RAIL	
	73 K909 25M CONTINUOUSLY CURVED FROG TURNOUT	
	74 K910 25M CONTINUOUSLY CURVED FROG TURNOUT	
	75 K911 25M STRAIGHT FROG TURNOUT	
SURVEY CONTROL	76 K912 TURNOUT ENCAPSULATION AND SECTION DETAILS	
SHEET 1 OF 2	77 K913 MANHOLE REBAR DETAIL	DETAIL SHEET 1 DF 2
SHEET 2 OF 2	78 K914 MANHOLE REBAR DETAIL	DETAIL SHEET 2 OF 2
DEMOLITION PLANS	79 K915 TRACK DRAIN DETAILS	
NB STA BEGIN TO STA 113+00		
	89 K924 NO. 4 STRAIGHT FROG CROSSOVER	
		CIVIL DETAILS
RACK PLAN AND PRUFILES		
	95 CUUG MISCELLANEUUS CIVIL DETAILS	CIVIL PLANS
		NB STA BEGIN TO STA 113+00
		NB STA 113+00 TO STA 117+00
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		NB STA 143+50 TO STA 147+50 NB STA 143+50 TO STA 147+50
		NB STA 143+50 TO STA 147+50 NB STA 147+50 TO END
		2ND STREET TO VMF
		STREETCAR STOP DETAILS
		NB "RIVER MARKET NORTH"
		NB/SB "RIVERFRONT"
		ADA PLANS
2ND STREET TO VMF	111 C302 ADA CURB RAMPS LAYUUI PLAN	RAMP NOTES AND DETAILS SHEET 1 OF 2
2ND STREET TO VMF	111 C302 ADA CURB RAMP STANDARD DETAILS	
L ZINU DIREEL III VMP		SHEET 2 OF 2
TRACK ALIGNMENT TABLES	113 C304 3RD STREET AND GRAND BOULEVARD	GRADING PLAN
	114 C305 2ND STREET AND GRAND BOULEVARD	GRADING PLAN
TRACK ALIGNMENT TABLES	114 C305 2ND STREET AND GRAND BOULEVARD 115 C306 GRADING LAYOUT PLANS	
TRACK ALIGNMENT TABLES	114 C305 2ND STREET AND GRAND BOULEVARD 115 C306 GRADING LAYOUT PLANS 116 C307 GRADING LAYOUT PLANS	GRADING PLAN
TRACK ALIGNMENT TABLES	114 C305 2ND STREET AND GRAND BOULEVARD 115 C306 GRADING LAYOUT PLANS	GRADING PLAN
	SHEET 1 OF 2 SHEET 2 OF 2 DEMOLITION PLANS NB STA BEGIN TO STA 113+00 NB STA 113+00 TO STA 117+92 NB STA 113+00 TO STA 121+00 NB STA 117+92 TO STA 121+00 NB STA 117+92 TO STA 129+00 NB STA 129+00 TO STA 129+00 NB STA 129+00 TO STA 133+00 NB STA 135+00 TO STA 139+50 NB STA 139+50 TO STA 139+50 NB STA 139+50 TO STA 147+50 NB STA 147+50 TO STA 113+50 STREET TO VMF IRACK PLAN AND PROFILES NB STA 131+50 TO STA 113+50 SB TRACK PROFILE STA 199+00 TO STA 203+00 NB STA 113+50 TO STA 113+50 SB TRACK PROFILE STA 199+00 TO STA 203+00 NB STA 113+50 TO STA 111+00 SB STA 207+00 TO STA 211+00 SB STA 211+00 TO STA 212+00 SB STA 211+00 TO STA 215+00 SB STA 211+00 TO STA 215+00 SB STA 211+00 TO STA 215+00 SB STA 211+00 TO STA 225+00 SB STA 219+00 TO STA 225+00 SB STA 219+00 TO STA 225+00 SB STA	Image: Solution of the second secon

REV	DATE	DESCRIPTION	DESIGNED BY CHECKED BY DRAWN BY CHECKED BY APPROVED BY	MMQ JWR MMQ JWR NKS	RideKC STREETCAR	These plans are intended to build interest in bidding 22	HDR Engineering, Inc. 10450 Holmes Road Suite 600 Kansas City, MO 64131-3471	KANSAS CITY ST
PLOT DATE	\$DATE\$	\$TIME:	DATE 12-2	3-2022		JAnthe project	Certificate of Authority: 000856 NOT FOR CONSTRUCTION	

AMP NOTES AND DETAILS		
HEET 1 OF 2		
HEET 2 OF 2		
RADING PLAN		
RADING PLAN		
ND STREET TO VMF		
	SCALE FOR 22"	×34":
TREETCAR - RIVERFRONT EXTENSION	NOT TO SCALE	
	FILENAME:	
	6010.dgn	
	CONTRACT NO.:	
INDEX OF DRAWINGS	CONTRACT NO. **	•
	VOLUME:	
SHEET 1	I DRAWING NO.:	SHEET NO .:
	G010	2
		-

# dwg TITLE	DESCRIPTION	# dwg	TITLE	DESCRIPTION
20 C311 GRADING LAYOUT PLANS		181 P310		PLANS AND ELEVATIONS
1 C312 GRADING LAYOUT PLANS		182 P311		SHELTER ROOF PLAN AND RCP
C313 GRADING LAYOUT PLANS			"TYPE B" SHELTER	SHELTER ENLARGED PLANS
C314 GRADING LAYOUT PLANS		184 P313	"TYPE B" SHELTER	ENLARGED ELEVATION AND SECTION
C315 POINT TABLES		185 P361	SHELTER DETAILS	
C316 POINT TABLES		186 P362	SHELTER DETAILS	
	TPSS PLANS		"TYPE B" SHELTER DETAILS	ADD ALTERNATE
5 C401 TRACTION POWER SUBSTATION (TPSS)	RIVERFRONT GRADING PLAN	188 P371	MARKER SECTION AND DETAILS	
7 C402 TRACTION POWER SUBSTATION (TPSS)	RIVERFRONT DUCTBANK PLAN		MARKER SECTION AND DETAILS	
8 C403 TRACTION POWER SUBSTATION (TPSS)	RIVERFRONT DUCTBANK PROFILE 1	190 P380	ELECTRICAL LIGHTING PLANS AND FIXTURE SCHEDULE	
9 C404 TRACTION POWER AND SCADA SYSTEM	TYPICAL DUCTBANK SECTIONS	191 P401	PLATFORM ITS AND ELECTRICAL GENERAL NOTES	
0 C405 TRACTION POWER SUBSTATION (TPSS)	DUCTBANK SPECIAL DETAILS	192 P402	PLATFORM ROADSIDE ITS 343 CABINET DIAGRAM	
1 C406 TRACTION POWER SUBSTATION (TPSS)	TYPICAL LOW VOLTAGE 5'x7' MANHOLE DETAILS	193 P403	CCTV ATTACHMENT ON OCS AND LIGHT POLE DETAILS	
32 C407 TRACTION POWER SUBSTATION (TPSS)	COMMUNICATIONS AND STRAY CURRENT PULLBOX TYPICAL DETAILS		STREETCAR STOP "RIVER MARKET NORTH"	ELECTRICAL AND ITS PLAN
33 C408 TRACTION POWER SUBSTATION (TPSS)	TYPICAL NEGATIVE RETURN DETAIL TRACK BLOCKOUT DETAIL AND TYPICAL CONDUIT STUB-UP DETAIL		STREETCAR STOP "RIVERFRONT"	ELECTRICAL AND ITS PLAN
4 C409 TRACTION POWER SUBSTATION (TPSS)	TYPICAL NEGATIVE RETURN DETAIL TRACK BLOCKOUT DETAIL AND TYPICAL CONDUIT STUB-UP DETAIL	196 P406	ITS TYPICAL DRAWING	TYPICAL STOP ELECTRICAL SCHEDULES AND DETAILS
	TPSS DETAILS			PLATFORM STRUCTURAL
5 J101 TRACTION POWER SYSTEM	MASTER SINGLE LINE DIAGRAM RIVERFRONT EXTENSION		STRUCTURAL GENERAL NOTES	
6 J610 TRACTION POWER	TYPICAL MAINLINE TPSS SINGLE LINE SINGLE LINE DIAGRAM	198 PS002		
7 J620 TRACTION POWER	TYPICAL PREFABRICATED TPSS PLAN EQUIPMENT LAYOUT PLAN	199 PS101		
8 J621 TRACTION POWER	TYPICAL PREFABRICATED TPSS - EXTERIOR ELEVATIONS ELEVATION VIEW	200 PS102		
9 J622 TRACTION POWER	TYPICAL PREFABRICATED TPSS INTERIOR ELEVATIONS INTERIOR ELEVATIONS	201 PS201		
0 J623 TRACTION POWER	TYPICAL SURGER ARRESTER INTERIOR ELEVATIONS	202 PS202		
11 J630 TRACTION POWER	TPSS D1 SITE RACEWAY LAYOUT		TYPICAL CONCRETE DETAILS	
2 J632 TRACTION POWER	TPSS D1 GROUND GRID LAYOUT	204 PS302		
3 J640 TRACTION POWER	TYPICAL DISCONNECT SWITCH ARRANGEMENT		"TYPE B" SHELTER CONCRETE DETAILS	
14 J642 TRACTION POWER	120/208V AC PANEL ADP PANEL SCHEDULE	206 PS501	TYPICAL STEEL SECTIONS AND DETAILS	
5 J643 TRACTION POWER	125V DC PANEL DDP PANEL SCHEDULE			PLATFORM ELEVATION PLANS
6 J644 TRACTION POWER	TYPICAL TPSS LIGHTING SCHEMATIC		"RIVER MARKET NORTH" PLATFORM	SIGNAGE LOCATION ELEVATION
7 J645 TRACTION POWER	TYPICAL TPSS RECEPTACLES AND SMOKE DETECTOR SCHEMATIC		"RIVERFRONT" PLATFORM	SIGNAGE LOCATION ELEVATION
8 J646 TRACTION POWER	TYPICAL TPSS HVAC AND VENTILATION SCHEMATIC		SIGNAGE TYPES OVERVIEW	
19 J648 TRACTION POWER	LOGIC DIAGRAMS SYMBOLS AND LEGEND		SIGNAGE TYPES OVERVIEW	
0 J649 TRACTION POWER	SUBSTATION LOCKOUT AND ALARM LOGIC DIAGRAM		SIGNAGE TYPES OVERVIEW	
51 J650 TRACTION POWER	AC SWITCHGEAR INCOMING CUBICLE LOGIC DIAGRAM		SIGNAGE TYPES OVERVIEW	
52 J652 TRACTION POWER	TYPICAL DC FEEDER CUBICLE LOGIC DIAGRAM SHEET 1 OF 2	213 P507	"RIVER MARKET NORTH" PLATFORM	WAYFINDING PLAN
53 J653 TRACTION POWER	TYPICAL DC FEEDER CUBICLE LOGIC DIAGRAM SHEET 2 OF 2			TRAFFIC SIGNAL LAYOUT PLANS
54 J654 TRACTION POWER	NEGATIVE AND POSITIVE DISCONNECT SWITCH LOGIC DIAGRAM		TRAFFIC SIGNAL GENERAL NOTES	
5 J660 TRACTION POWER	STATION CONTROL CABINET TYPICAL LAYOUT		TRAFFIC SIGNAL LAYOUT PLAN	3RD STREET AND GRAND BOULEVARD
56 J661 TRACTION POWER	RAIL TO GROUND (R2G) CABINET TYPICAL LAYOUT		TRAFFIC SIGNAL LAYOUT PLAN	3RD STREET AND GRAND BOULEVARD
7 J665 TRACTION POWER	TPSS COMMUNICATIONS BLOCK DIAGRAM	217 T101B		3RD STREET AND GRAND BOULEVARD
8 J673 TRACTION POWER	TYPICAL GROUNDING DETAILS	218 T101C		3RD STREET AND GRAND BOULEVARD
9 J680 TRACTION POWER	D1 CONDUCTOR SCHEDULE		TRAFFIC SIGNAL LAYOUT PLAN	2ND STREET AND GRAND BOULEVARD
0 J690 TRACTION POWER	TYPICAL TPSS HMI ALARM SCREEN LAYOUT		TRAFFIC SIGNAL LAYOUT PLAN	2ND STREET AND GRAND BOULEVARD
1 J691 TRACTION POWER	TYPICAL TPSS HMI CONTROL SCREEN LAYOUT		TRAFFIC SIGNAL WIRING DIAGRAM AND PHASING	2ND STREET AND GRAND BOULEVARD
2 J692 TRACTION POWER	TYPICAL TPSS HMI EVENT LOG SCREEN LAYOUT		TRAFFIC SIGNAL SUMMARY OF QUANTITIES	2ND STREET AND GRAND BOULEVARD
3 J693 TRACTION POWER	TYPICAL TPSS HMI NETWORK STATUS SCREEN LAYOUT		TRAFFIC SIGNAL LAYOUT PLAN	BERKLEY PARKWAY / RIVERRENT DRIVE
4 J694 TRACTION POWER	TYPICAL SUBSTATION FOUNDATION DETAIL		TRAFFIC SIGNAL WIRING DIAGRAM AND PHASING	BERKLEY PARKWAY / RIVERFRONT DRIVE
5 J695 TRACTION POWER	TYPICAL PAD MOUNTED DISCONNECT SWITCH FOUNDATION DETAILS	225 T103C	TRAFFIC SIGNAL SUMMARY OF QUANTITIES	BERKLEY PARKWAY / RIVERFRONT DRIVE
	DRAINAGE PLANS			TRAFFIC SIGNAL DETAILS
6 D101 DRAINAGE PLAN	NB STA BEGIN TO STA 113+00		TRAFFIC SIGNAL DETAILS	CROSS SPAN JOINT USE TRAFFIC/OCS POLE
7 D102 DRAINAGE PLAN	NB STA 113+00 TO STA 117+00		TRAFFIC SIGNAL DETAILS	AUXILIARY CABINET MOUNTING DETAIL
8 D103 DRAINAGE PLAN	NB STA 117+00 TO STA 121+00		TRAFFIC SIGNAL DETAILS	TRAFFIC SIGNAL SYMBOLS
9 D106 DRAINAGE PLAN	NB STA 129+00 TO STA 133+00		TRAFFIC SIGNAL DETAILS	SIGNAL HEAD DETAILS
0 D109 DRAINAGE PLAN	NB STA 139+50 TO STA 143+50		TRAFFIC SIGNAL DETAILS	SIGNAL MAST ARM DETAILS
71 D110 DRAINAGE PLAN	NB STA 143+50 TO STA 147+50		TRAFFIC SIGNAL DETAILS	SIGNAL CONCRETE BASE DETAILS
2 D111 DRAINAGE PLAN	NB STA 147+50 TO END		TRAFFIC SIGNAL DETAILS	SIGNAL PULL BOX DETAILS
73 D301 MISCELLANEOUS DRAINAGE DETAILS			TRAFFIC SIGNAL DETAILS	SIGNAL PULL BOX DETAILS
	PLATFORMS		TRAFFIC SIGNAL DETAILS	SIGNAL PTZ CAMERA INSTALL DETAILS
4 P101 "RIVER MARKET NORTH"	PLATFORM PLAN	235 T210		PEDESTRIAN PUSHBUTTON POLE DETAILS
5 P102 "RIVERFRONT"	PLATFORM PLAN	236 1211	TRAFFIC SIGNAL DETAILS	PEDESTRIAN PUSHBUTTON POLE DETAILS
76 P201 "RIVER MARKET NORTH"	PLATFORM ELEVATION			SIGNING AND STRIPING PLANS
77 P202 "RIVERFRONT"	PLATFORM ELEVATION		SIGNING AND STRIPING	GENERAL NOTES
78 P203 PLATFORM SITE DETAILS			SIGNING AND STRIPING PLAN	5TH TO 3RD STREET
79 P204 PLATFORM SEAT WALL DETAILS			SIGNING AND STRIPING PLAN	NB STA BEGIN TO STA 113+00
30 P302 "TYPE A" SHELTER	PLANS AND ELEVATIONS	240 5102	SIGNING AND STRIPING PLAN	NB STA 113+00 TD STA 117+00
		0.44	SIGNING AND STRIPING PLAN	NB STA 117+00 TD STA 121+00

REV DATE	DESCRIPTION	DESIGNED BY	ммо		This set of plans is	ISSUED FOR BID DATE: 12-23-20	22 KANSAS CITY STR
PLOT DATE: \$DATE\$	\$TIN	CHECKED BY DRAWN BY CHECKED BY APPROVED BY	JWR MMO JWR NKS 12-23-2022	RideKC STREETCAR	not for construction. These plans are intended to build interest in bidding 22 the project.	HDR Engineering, Inc. 10450 Holmes Road Suite 600 Karasas City, MO 64131-3471	11

TREETCAR - RIVERFRONT EXTENSION	SCALE FOR 22" NOT TO SCALE	x34":
	FILENAME: GOII.dgn	
INDEX OF DRAWINGS	CONTRACT NO.: CONTRACT NO. **	
SHEFT 2	VOLUME:	
	G011	SHEET NO.: 3
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# dwg	TITLE	DESCRIPTION	# dwg	TITLE	DESC
242 \$104		NB STA 121+00 TO STA 125+00	302 ST308		-
243 S105		NB STA 125+00 TO STA 129+00	303 ST309		+
244 \$106		NB STA 129+00 TO STA 133+00	304 ST310		PIERS 11
245 S107	SIGNING AND STRIPING PLAN	NB STA 133+00 TO STA 135+50	305 ST311		
246 S108	SIGNING AND STRIPING PLAN	NB STA 135+50 TO STA 139+50	306 ST312	BID ALTERNATE - 115RE JOINTS TYPICAL SLAB SECTIONS AND DETAILS	
247 S109		NB STA 139+50 TO STA 143+50	307 ST313		
248 S110		NB STA 143+50 TO STA 147+50		BID ALTERNATE - 115RE JOINTS SLAB REINFORCING - PIER 5	
249 S111	SIGNING AND STRIPING PLAN	NB STA 147+50 TO END	309 ST315	BID ALTERNATE - 115RE JOINTS SLAB REINFORCING - PIER 8	-
250 S112	SIGNING AND STRIPING PLAN	2ND STREET TO VMF	310 ST316	BID ALTERNATE - 115RE JOINTS SLAB REINFORCING - PIER 11	-
251 S113	PAVEMENT MARKING TABULATION		311 ST317	BID ALTERNATE - 115RE JOINTS SLAB REINFORCING - PIER 12	
252 S114	SIGN REMOVAL TABULATION		312 ST318	BID ALTERNATE - 115RE JOINTS BILL OF REINFORCING STEEL (SLAB)	
253 SN 5	SIGN/PANYL DEVAILS Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y		313 ST319	BID ALTERNATE - 115RE JOINTS BILL OF REINFORCING STEEL (SLAB)	
	LIGH	ING PLANS	314 ST320	BID ALTERNATE - 115RE JOINTS BILL OF REINFORCING STEEL (SLAB)	
254 L001	GENERAL LIGHTING NOTES AND SYMBOL LEGEND		315 ST321	BID ALTERNATE - 115RE JOINTS EAST BARRIER RAIL AT PIER 2, 5 & 8	
255 L101	LIGHTING PLAN	NB STA BEGIN TO STA 113+00	316 ST322	BID ALTERNATE - 115RE JOINTS EAST BARRIER RAIL AT PIER 11 & 12	
256 L102	LIGHTING PLAN	NB STA 113+00 TO STA 117+00	\$17 ST323	BID ALTERNATE - 115RE JOINTS EAST BARRIER DETAILS	
257 L103	LIGHTING PLAN	NB STA 117+00 TO STA 121+00	18 ST324	BID ALTERNATE - 115RE JOINTS WEST BARRIER RAIL AT PIER 2, 5 & 8	
258 L104	LIGHTING PLAN	NB STA 121+00 TO STA 125+00	19 ST325	BID ALTERNATE - 115RE JOINTS WEST BARRIER RAIL AT PIER 11 & 12	
259 L105	LIGHTING PLAN	NB STA 125+00 TO STA 129+00	20 ST326		
260 L106	LIGHTING PLAN	NB STA 129+00 TO STA 133+00	321 ST328	BID ALTERNATE - 115RE JOINTS BARRIER DETAILS 1	
261 L107	LIGHTING PLAN	NB STA 133+00 TO STA 135+50	22 ST329		
	LIGHTING PLAN	NB STA 135+50 TO STA 139+50	23 ST330		
263 L109	LIGHTING PLAN	NB STA 139+50 TO STA 143+50	24 ST331	BID ALTERNATE - 115RE JOINTS EAST BARRIER BAR LIST	
64 L110	LIGHTING PLAN	NB STA 143+50 TO STA 147+50	125 ST332	BID ALTERNATE - 115RE JOINTS WEST BARRIER BAR LIST	
65 L111	LIGHTING PLAN	NB STA 147+50 TO END		EROSIO	N CONTROL
266 L112	LIGHTING PLAN	2ND STREET TO VMF	826 EC101	EROSION CONTROL PLAN	NB S
		NG VETAILS VICTORIAN AND VICTORIANA AND VICTORI	327 EC102	ERDSION CONTROL PLAN	NB S
67 300	Alech Multile charles Control Control		328 EC103	ERDSION CONTROL PLAN	NB S
68 L301	STREET LIGHTING DETAILS		329 EC104	EROSION CONTROL PLAN	NB S
69 L302	POWER AND LIGHTING DETAILS			OCS TE	CHNICAL
	POWER AND LIGHTING DETAILS		330 Y004	TECHNICAL SHEETS CONDUCTOR PARTICULARS	
71 L304	STREET LIGHTING SCHEDULES		331 YO05	TECHNICAL SHEETS VERTICAL ELECTRICAL CLEARANCE REQUIREMENTS	
72 L305	STREET LIGHTING SCHEDULES		332 Y006	TECHNICAL SHEETS PANTOGRAPH SECURITY	
73 L306	WIRING SCHEMATIC DETAILS		333 YO07	TECHNICAL SHEETS TYPICAL OFFSET AND STAGGER DETAILS	
4 L307	WIRING SCHEMATIC DETAILS		334 YOO8	TECHNICAL SHEETS INSTALLATION TENSION CHART	
	LANDS	CAPE PLANS	335 YOO9	TECHNICAL SHEETS ALONG TRACK MOVEMENT CHART	
	LANDSCAPE PLAN	BERKLEY PARK - 1	336 Y010	TECHNICAL SHEETS VERTICAL AND RADIAL LOADS	
6 LS102	LANDSCAPE PLAN	BERKLEY PARK - 2	337 Y011	TYPICAL ARRANGEMENTS TYPICAL OVERLAP ARRANGEMENT	
77 LS103		BERKLEY PARK - 3	338 Y012	TYPICAL ARRANGEMENTS AT GRAND BOULEVARD VIADUCT	
'8 LS104		GRAND BOULEVARD	339 Y013		
9 LS201	LANDSCAPE DETAILS		340 Y021	STRUCTURAL DETAILS TYPICAL POLE DETAIL	_
		TAILS 112TRAM	341 Y023	STRUCTURAL DETAILS STREETLIGHT POLE DETAIL	
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1 ST101		1 OF 3	343 Y031		
	BASE BID - 112TRAM JOINTS DECK MILL AND OVERLAY LIMITS	2 OF 3	344 Y033	STRUCTURAL DETAILS STREETLIGHT POLE FOUNDATION DETAIL	_
	BASE BID - 112TRAM JOINTS DECK MILL AND OVERLAY LIMITS	3 OF 3	345 Y034		
	BASE BID - 112TRAM JOINTS MODIFIED FINGER JOINT PLAN	PIERS 2 AND 5	346 Y035	STRUCTURAL DETAILS ROCK SOCKET AND DOWN GUY FOUNDATION DETAILS	
35 ST105		PIER 8	347 Y036		
86 ST106			348 YO37		SHEE
87 ST107	BASE BID - 112TRAM JOINTS STRIP SEAL PLAN	PIERS 11 AND 12	349 YO38	POLE INSTALLATION DETAILS AT GRAND BOULEVARD VIADUCT	SHEE
38 ST108			350 Y039	STRUCTURAL DETAILS ANCHOR BOLT DETAIL	
9 ST109	BASE BID - 112TRAM JOINTS BRIDGE TYPICAL SECTIONS		351 Y041	BRACKET ARM ASSEMBLIES SINGLE PIPE BRACKET ARM	_
		K DRAIN DETAILS	352 Y042	BRACKET ARM ASSEMBLIES DOUBLE PIPE BRACKET ARM	_
	PLAN VIEW - ABUTMENT 2 - TRACK DRAIN		353 YO43	BRACKET ARM ASSEMBLIES OVERLAP SINGLE PIPE BRACKET ARM	
	APPROACH SLAB EXPANSION JOINT DRAIN DETAIL		354 YO44		
92 ST203			355 Y045	BRACKET ARM ASSEMBLIES BRACKET ARM POLE SOCKET	
3 ST204	TRACK SLAB DETAIL - OVER UTILITY VAULT		356 Y046	BRACKET ARM ASSEMBLIES OVERLAP BRACKET ARM MOUNTING BRACKET DETAIL	
		ETAILS 115RE	357 YO47	BRACKET ARM ASSEMBLIES SECTION INSULATOR SUPPORT	
	BID ALTERNATE - 115RE JOINTS GENERAL NOTES		358 Y051	SPAN WIRE ARRANGEMENTS CROSS SPAN DETAILS	
	BID ALTERNATE - 115RE JOINTS MILL AND OVERLAY LIMITS - ABUT 1		359 Y052	SPAN WIRE ARRANGEMENTS HEADSPAN ASSEMBLY	
96 ST302	BID ALTERNATE - 115RE JOINTS CONCRETE REMOVAL - PIER 2		360 Y056	REGISTRATION ASSEMBLIES PULLOVER ASSEMBLIES	SHEE
97 ST303	BID ALTERNATE - 115RE JOINTS CONCRETE REMOVAL - PIER 5		361 Y057	REGISTRATION ASSEMBLIES PULLOVER ASSEMBLIES	SHEE
98 ST304			362 Y058	REGISTRATION ASSEMBLIES PENDULUM SUSPENSION ASSEMBLIES	
99 ST305	BID ALTERNATE - 115RE JOINTS CONCRETE REMOVAL - PIER 11		363 Y059	REGISTRATION ASSEMBLIES SUSPENSION ASSEMBLIES	
500 ST306	BID ALTERNATE - 115RE JOINTS CONCRETE REMOVAL - PIER 12				
	BID ALTERNATE - 115RE JOINTS FINGER JOINT MODIFICATION PLAN - PIERS 2 &	5			
		-	I		

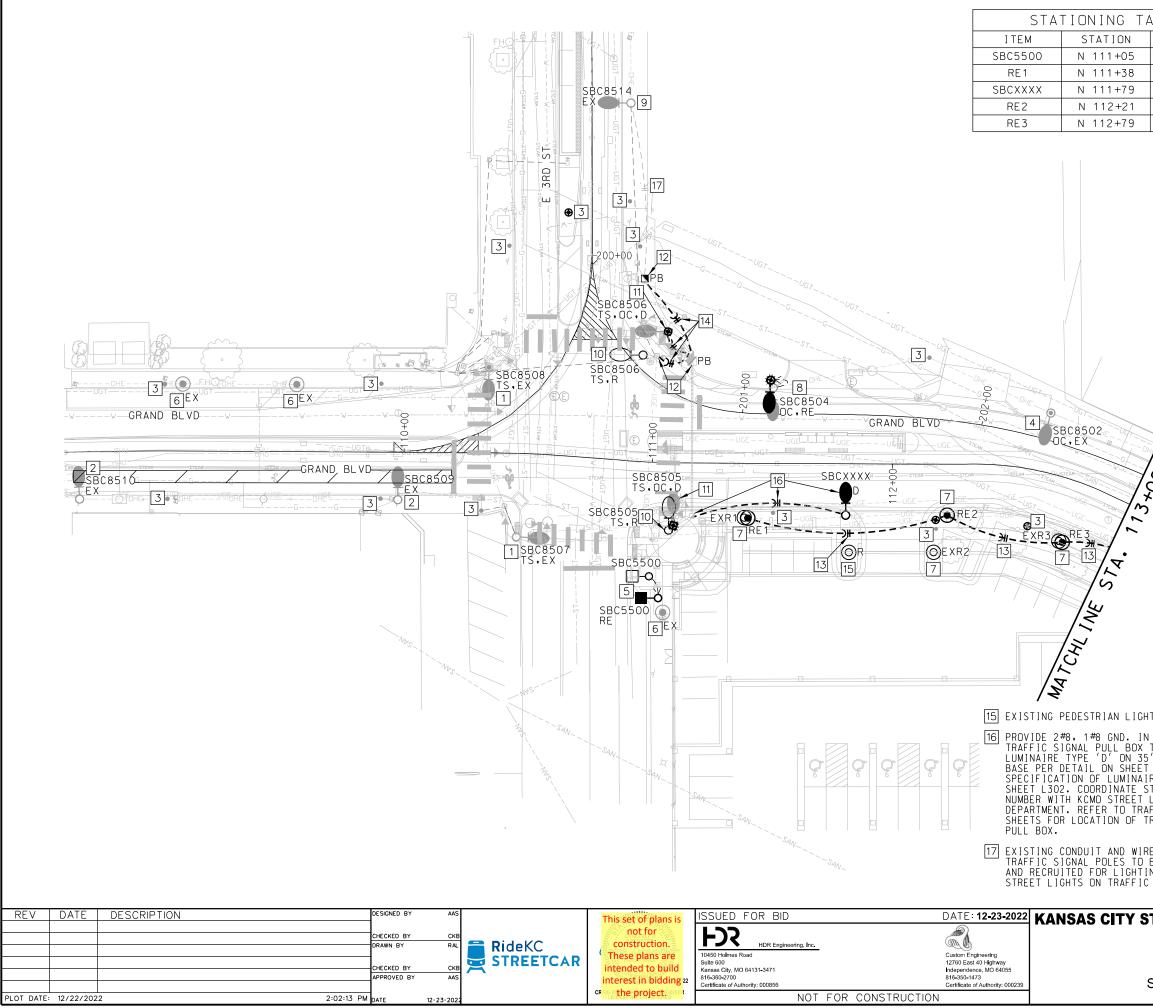
REV	DATE	DESCRIPTION	DESIGNED BY	MMQ		This set of plans is	ISSUED FOR BID DATE: 12-23-2022	KANSAS CITY S
			CHECKED BY	JWR		not for	FJ5	
			DRAWN BY	ммо	Ride KC	construction. These plans are	HDR Engineering, Inc. 10450 Holmes Road	
			CHECKED BY	JWR	STREETCAR	intended to build	Sulte 600 Kansas City, MO 64131-3471	
			APPROVED BY	NKS		interest in bidding 22	816-360-2700 Certificate of Authority: 000856	
PLOT DATE	\$DATE\$	\$TIME\$	DATE	12-23-2022		Jan the project.	NOT FOR CONSTRUCTION	

DESCRIPTION	
S 11 & 12	
ITROL PLANS NB STA 135+50 TO STA 139+50	
NB STA 139+50 TO STA 143+50 NB STA 143+50 TO STA 147+50	
NB STA 147+50 TD END CAL SHEETS	
SHEET 1 OF 2	
SHEET 2 OF 2	
SHEET 1 OF 2 SHEET 2 OF 2	
	SCALE FOR 22"×34":
TREETCAR - RIVERFRONT EXTENSION	NOT TO SCALE FILENAME:
INDEX OF DRAWINGS	GOI2.dgn CONTRACT NO.: CONTRACT NO. ***
SHEET 3	VOLUME: I DRAWING NO.: SHEET NO.:
	G012 4

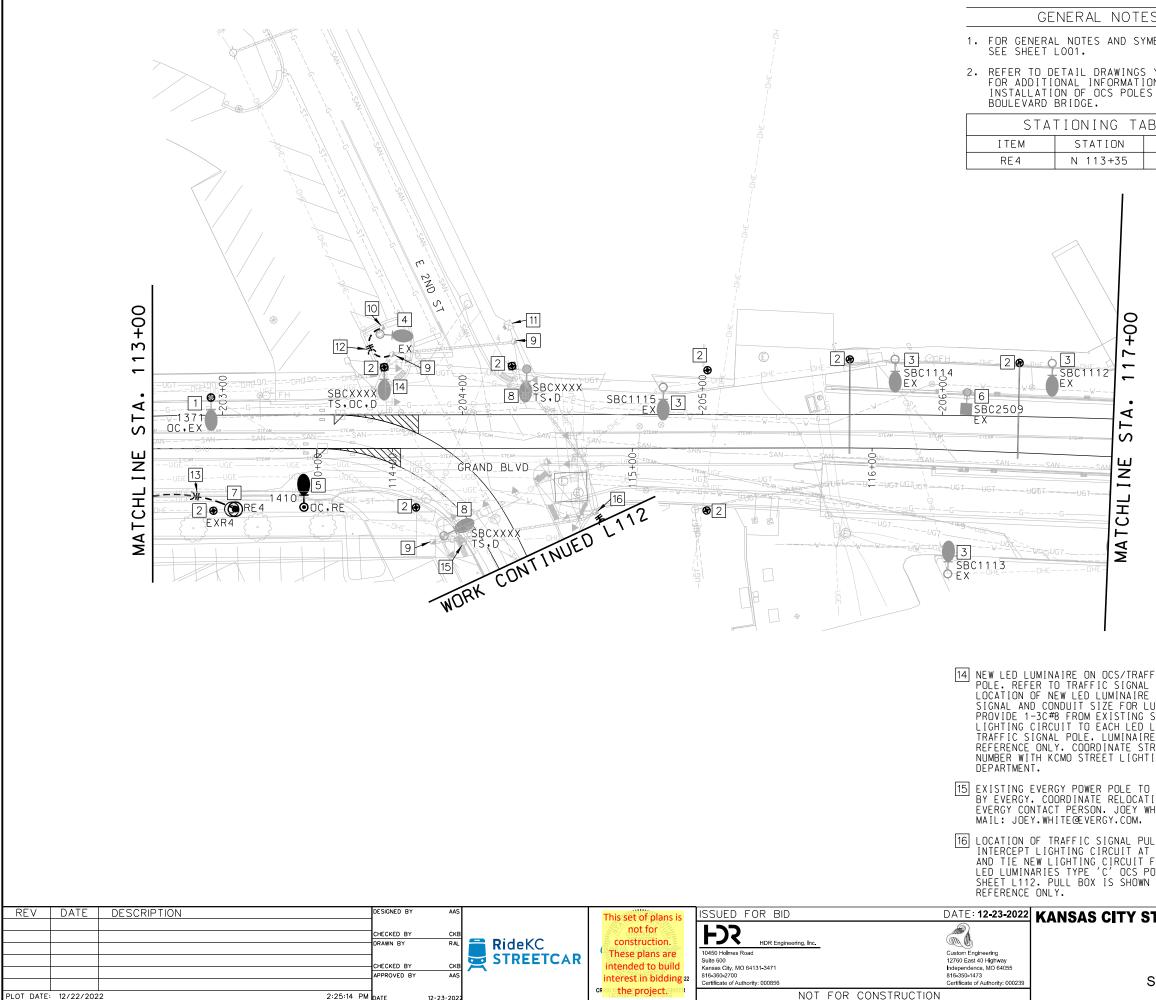
# dwg TITLE DESCRIPTION	# dwg TITLE	DESCRIPTION
364 YO61 IN-SPAN ASSEMBLIES JUMPER ASSEMBLIES	427 Z618 COMMUNICATIONS DETAILS	RING DIAGRAM SHEET 4
365 Y062 IN-SPAN ASSEMBLIES SECTION INSULATOR ASSEMBLY	428 Z619 COMMUNICATIONS DETAILS	RING DIAGRAM SHEET 5
366 Y063 IN-SPAN ASSEMBLIES TYPICAL SPLICE DETAILS	429 Z620 COMMUNICATIONS DETAILS	3RD ST SPLICE
367 Y064 IN-SPAN ASSEMBLIES SPAN SPACER AND CROSS CONTACT WIRE CLAMP ASSEMBLIES	430 Z621 COMMUNICATIONS DETAILS	3RD ST SPLICE INSET
368 Y065 IN-SPAN ASSEMBLIES CONTACT WIRE PROTECTION BOARD	431 Z622 COMMUNICATIONS DETAILS	2ND ST SPLICE
369 Y066 SWITCHING AND FEEDER ASSEMBLIES FEEDER TAP DETAILS 370 Y067 SWITCHING AND FEEDER ASSEMBLIES SURGE ARRESTER DETAILS	432 Z623 COMMUNICATIONS DETAILS 433 Z624 COMMUNICATIONS DETAILS	SUB STATION SPLICE BERKLEY PKWY SPLICE
370 TOGE SECTIONALIZING LARD FEEDER ASSEMBLIES SURGE ARRESTER DETAILS	434 Z625 COMMUNICATIONS DETAILS	RIVERFRONT SPLICE DIAGRAM
372 Y069 POLE GROUND WIRE INSTALLATION GRAND BOULEVARD VIADUCT PIERS	435 Z626 COMMUNICATIONS DETAILS	RIVERFRONT STATION SPLICE
373 YOTO SWITCHING FEEDER ASSEMBLIES FEEDER TAP DETAILS	436 Z627 ITS CONDUIT HANGER DETAILS	
374 Y071 TERMINATION ASSEMBLIES FIXED TERMINATION ASSEMBLY	437 Z628 CONDUIT TRANSITION DETAIL	
375 Y072 TERMINATION ASSEMBLIES SPRING TENSIONER TERMINATION ASSEMBLY	438 Z629 ITS CONDUIT TRANSITION BOX DETAIL	
376 Y081 MISCELLANEOUS POLE NUMBERING DETAIL	439 Z630 ITS CONDUIT EXPANSION/DEFLECTION POINT	
377 Y092 CROSS SECTION HEART OF AMERICA BRIDGE	440 Z631 ITS CONDUIT RISER	
378 Y093 PROFILES HEART OF AMERICA SHEET 1 OF 2		CONTROL PLANS
379 Y094 PROFILES HEART OF AMERICA SHEET 2 OF 2	441 N101 TRAIN CONTROL PLAN	3RD & GRAND
380 Y097 CROSS SECTION CCS FEEDING POINT	442 N102 TRAIN CONTROL PLAN 443 N103 TRAIN CONTROL PLAN	2ND & GRAND
381 Y111 STRUCTURE SCHEDULE POLE AND FOUNDATION SCHEDULE SHEET 1 OF 2 382 Y112 STRUCTURE SCHEDULE POLE AND FOUNDATION SCHEDULE SHEET 2 OF 2	444 N104 TRAIN CONTROL PLAN	FRONT & BERKLEY RIVERFRONT
Jac 112 STRUCTURE SCHEDULE FOLE AND FOUNDATION SCHEDULE CONSTRUCTOR SCHEDULE CONSTRUCTOR SCHEDULE FOLE AND FOUNDATION SCHEDULE FOLE FOLE FOLIA AND FOUNDATION SCHEDULE FOLE FOLE FOLE FOLE FOLE FOLE FOLE FO	445 N105 TRAIN CONTROL PLAN	VMF
005 LATOUT FLANS		IN SIGNALING
384 Y199 MASTER OVERLAP CHART	446 NG00 TRAIN CONTROL TRACK AND CABLE PLAN	3RD & GRAND
385 Y201 OCS LAYOUT PLAN NB STA BEGIN TO STA 113+00	447 N601 TRAIN CONTROL TRACK AND CABLE PLAN	2ND & GRAND
386 Y202 DCS LAYOUT PLAN NB STA 113+00 TD STA 117+00	448 N602 TRAIN CONTROL TRACK AND CABLE PLAN	FRONT STREET
387 Y203 OCS LAYOUT PLAN NB STA 117+00 TO STA 121+00	449 N603 TRAIN CONTROL TRACK AND CABLE PLAN	RIVERFRONT
388 Y204 OCS LAYOUT PLAN NB STA 121+00 TD STA 125+00	450 N604 TRAIN CONTROL ROUTE AND ASPECT CHART	3RD & GRAND
389 Y205 OCS LAYOUT PLAN NB STA 125+00 TO STA 129+00	451 N605 TRAIN CONTROL ROUTE AND ASPECT CHART	2ND & GRAND
390 Y206 OCS LAYOUT PLAN NB STA 129+00 TO STA 133+00	452 N606 TRAIN CONTROL ROUTE AND ASPECT CHART	RIVERFRONT
391 Y207 OCS LAYOUT PLAN NB STA 133+60 TD STA 135+50	453 N607 TRAIN CONTROL TURNOUT BONDING	
332 Y208 OCS LAYOUT PLAN NB STA 135+50 302 Y208 OCS LAYOUT PLAN NB STA 135+50	454 N608 TRAIN CONTROL	TYPICAL SIGNAL CASE LAYOUT RELAY CASE
393 Y209 OCS LAYOUT PLAN NB STA 139+50 TO STA 143+50 394 Y210 OCS LAYOUT PLAN NB STA 143+50 TO STA 147+50	455 N609 TRAIN CONTROL 456 N610 TRAIN CONTROL	TYPICAL SIGNAL CASE FOUNDATION AND GROUNDING DETAILS TYPICAL TWC LOOP INSTALLATION EMBEDDED TRACK
335 1210 005 EArlot NB STA 14750 TO FINA 335 1211 005 LAYOUT NB STA 14750 TO END	457 NG11 TRAIN CONTROL	CABLE / CONDUIT SCHEDULE
396 Y212 DCS BRIDGE GROUNDING LAYOUT PLAN STA 117400 TO STA 121400	458 N612 TRAIN CONTROL	CABLE / CONDUIT SCHEDULE
397 Y213 DCS BRIDGE GROUNDING LAYOUT PLAN STA 121+00 TO STA 125+00	459 N613 TRAIN CONTROL	CABLE / CONDUIT SCHEDULE
398 Y214 DCS BRIDGE GROUNDING LAYOUT PLAN STA 125+00 TO STA 129+00		OF WAY PLANS
399 Y215 OCS BRIDGE GROUNDING LAYOUT PLAN STA 129+00 TO STA 133+00	460 RWO01 RIGHT OF WAY KEY MAP	
400 Y216 OCS LAYOUT PLAN 2ND STREET TO VMF	461 RW101 RIGHT OF WAY PLAN	100 GRAND BLVD
401 Y217 OCS LAYOUT PLAN ENLARGED VIEW	462 RW102 RIGHT OF WAY PLAN	101 GRAND BLVD
COMMIUNICATION SCHEDULES	463 RW103 RIGHT OF WAY PLAN	599 E RIVERFRONT ROAD - SHEET 1
402 Z001 COMMUNICATION SCHEDULE	464 RW104 RICHT OF WAY PLAN	599 E RIVERFRONT ROAD - SHEET 2
COMMIUNICATION PLANS 403 Z101 COMMUNICATIONS PLAN NB STA BEGIN TO STA 113+00	465 RW105 RIGHT OF WAY PLAN 466 RW106 RIGHT OF WAY PLAN	599 E RIVERFRONT ROAD - SHEET 3 599 E RIVERFRONT ROAD - SHEET 4
403 2101 Communications PLAN NB STA BEIN NB STA 117+00 404 2102 COMMUNICATIONS PLAN NB STA 113+00 TO STA 117+00		ETOUR PLAN
405 Z103 COMMUNICATIONS PLAN NB STA 117+00 TO STA 121+00	467 DT101 DETOUR PLAN	
406 Z104 COMMUNICATIONS PLAN NB STA 121+00 TO STA 125+00		ID OVERLAY PLANS
407 Z105 COMMUNICATIONS PLAN NB STA 125+00 TD STA 129+00	468 R101 ROADWAY MILL AND OVERLAY PLAN AND PROFILE	STA 0+00 TD STA 4+00
408 Z106 COMMUNICATIONS PLAN NB STA 129+00 TO STA 133+00	469 R102 ROADWAY MILL AND OVERLAY PLAN AND PROFILE	STA 4+00 TO STA 8+00
409 Z107 COMMUNICATIONS PLAN NB STA 133+00 TO STA 135+50	470 R103 ROADWAY MILL AND OVERLAY PLAN AND PROFILE	STA 19+00 TO STA 23+00
410 Z108 COMMUNICATIONS PLAN NB STA 135+50 TO STA 139+50	471 R104 ROADWAY MILL AND OVERLAY PLAN AND PROFILE	STA 23+00 TO STA 28+00
411 Z109 COMMUNICATIONS PLAN NB STA 139+50 T0 STA 143+50	472 R105 ROADWAY MILL AND OVERLAY PLAN AND PROFILE	2ND STREET TO VMF
412 Z110 COMMUNICATIONS PLAN NB STA 143+50 T0 STA 147+50	473 R201 ROADWAY MILL AND OVERLAY	ALIGNMENT TABLE GRAND BOULEVARD & BERKLEY PARKWAY
413 Z111 COMMUNICATIONS PLAN NB STA 147+50 TO END 414 Z112 COMMUNICATIONS PLAN 2ND STREET TO VMF	474 XSO1 ROADWAY MILL AND OVERLAY CROSS SECTIONS	ERLAY CROSS SECTIONS GRAND BOULEVARD
COMMUNICATION DETAILS	475 XS02 ROADWAY MILL AND OVERLAY CROSS SECTIONS	GRAND BOULEVARD
415 Z601 SYSTEMVIDE ELECTRICAL TYPICAL MANHOLE DETAILS	476 XSO3 ROADWAY MILL AND OVERLAY CROSS SECTIONS	GRAND BOULEVARD
116 Z602 SYSTEMWIDE ELECTRICAL MANHOLE INSTALLATION AND SWITCH HEATER/TRACK CIRCUIT BLOCKOUT DETAILS	477 XSO4 ROADWAY MILL AND OVERLAY CROSS SECTIONS	GRAND BOULEVARD
417 Z603 SYSTEMWIDE ELECTRICAL FIBER OPTIC SPLICE VAULT	478 XSO5 ROADWAY MILL AND OVERLAY CROSS SECTIONS	GRAND BOULEVARD
418 Z604 SYSTEMWIDE ELECTRICAL HANDHOLE DETAILS	479 XSO6 ROADWAY MILL AND OVERLAY CROSS SECTIONS	GRAND BOULEVARD
		BERKLEY PARKWAY
419 Z606 SYSTEMWIDE ELECTRICAL TYPICAL TRACK CIRCUIT BLOCKOUT DETAIL	480 XS07 ROADWAY MILL AND OVERLAY CROSS SECTIONS	
420 Z607 SYSTEMWIDE ELECTRICAL TRACK TURNOUT BLOCKOUT DETAIL	481 XSO8 ROADWAY MILL AND OVERLAY CROSS SECTIONS	BERKLEY PARKWAY
420 Z607 SYSTEMWIDE ELECTRICAL TRACK TURNOUT BLOCKOUT DETAIL 421 Z608 SYSTEMWIDE ELECTRICAL TYPICAL DUCTBANK INSTALLATION MANHOLE AND CONDUIT LABELING AND CONDUIT STUB-UP DETAIL	481 XS08 ROADWAY MILL AND OVERLAY CROSS SECTIONS 482 XS09 ROADWAY MILL AND OVERLAY CROSS SECTIONS	BERKLEY PARKWAY
420 Z607 SYSTEMWIDE ELECTRICAL TRACK TURNOUT BLOCKOUT DETAIL 421 Z608 SYSTEMWIDE ELECTRICAL TYPICAL DUCTBANK INSTALLATION MANHOLE AND CONDUIT LABELING AND CONDUIT STUB-UP DETAIL 422 Z609 SYSTEMWIDE ELECTRICAL COMMUNICATION CONDUIT TYPICAL SECTIONS	481 XS08 ROADWAY MILL AND OVERLAY CROSS SECTIONS 482 XS09 ROADWAY MILL AND OVERLAY CROSS SECTIONS 483 XS10 ROADWAY MILL AND OVERLAY CROSS SECTIONS	BERKLEY PARKWAY 2ND STREET
420 Z607 SYSTEMWIDE ELECTRICAL TRACK TURNOUT BLOCKOUT DETAIL 421 Z608 SYSTEMWIDE ELECTRICAL TYPICAL DUCTBANK INSTALLATION MANHOLE AND CONDUIT LABELING AND CONDUIT STUB-UP DETAIL 422 Z609 SYSTEMWIDE ELECTRICAL COMMUNICATION CONDUIT TYPICAL SECTIONS 423 Z614 COMMUNICATIONS DETAILS NETWORK DIAGRAM	481 XSO8 ROADWAY MILL AND OVERLAY CROSS SECTIONS 482 XSO9 ROADWAY MILL AND OVERLAY CROSS SECTIONS 483 XS10 ROADWAY MILL AND OVERLAY CROSS SECTIONS 484 XS11 ROADWAY MILL AND OVERLAY CROSS SECTIONS 484 XS11 ROADWAY MILL AND OVERLAY CROSS SECTIONS	BERKLEY PARKWAY 2ND STREET 2ND STREET
420 Z607 SYSTEMWIDE ELECTRICAL TRACK TURNOUT BLOCKOUT DETAIL 421 Z608 SYSTEMWIDE ELECTRICAL TYPICAL DUCTBANK INSTALLATION MANHOLE AND CONDUIT LABELING AND CONDUIT STUB-UP DETAIL 422 Z609 SYSTEMWIDE ELECTRICAL COMMUNICATION CONDUIT TYPICAL SECTIONS 423 Z614 COMMUNICATIONS DETAILS NETWORK DIAGRAM 424 Z615 COMMUNICATIONS DETAILS RING DIAGRAM SHEET 1	481 XS08 ROADWAY MILL AND OVERLAY CROSS SECTIONS 482 XS09 ROADWAY MILL AND OVERLAY CROSS SECTIONS 483 XS10 ROADWAY MILL AND OVERLAY CROSS SECTIONS 484 XS11 ROADWAY MILL AND OVERLAY CROSS SECTIONS 485 XS12 ROADWAY MILL AND OVERLAY CROSS SECTIONS	BERKLEY PARKWAY 2ND STREET 2ND STREET 2ND STREET 2ND STREET
420 Z607 SYSTEMWIDE ELECTRICAL TRACK TURNOUT BLOCKOUT DETAIL 421 Z608 SYSTEMWIDE ELECTRICAL TYPICAL DUCTBANK INSTALLATION MANHOLE AND CONDUIT LABELING AND CONDUIT STUB-UP DETAIL 422 Z609 SYSTEMWIDE ELECTRICAL COMMUNICATION CONDUIT TUPICAL SECTIONS 423 Z614 COMMUNICATIONS DETAILS NETWORK DIAGRAM	481 XSO8 ROADWAY MILL AND OVERLAY CROSS SECTIONS 482 XSO9 ROADWAY MILL AND OVERLAY CROSS SECTIONS 483 XS10 ROADWAY MILL AND OVERLAY CROSS SECTIONS 484 XS11 ROADWAY MILL AND OVERLAY CROSS SECTIONS 484 XS11 ROADWAY MILL AND OVERLAY CROSS SECTIONS	BERKLEY PARKWAY 2ND STREET 2ND STREET

REV DATE DESCRIPTION	DESIGNED BY	IMO	This set of plans is	ISSUED FOR BID DATE: 12-23-202	2 KANSAS CITY STREETCAR - RIVERFRONT EXTENSION	SCALE FOR 22"×34": NOT TO SCALE
	CHECKED BY	IWR	not for	FJ2		FILENAME: GOI3.dan
	DRAWN BY	🚾 🚞 RideKC	construction.	HDR Engineering, Inc.		CONTRACT NO.: CONTRACT NO. ***
	CHECKED BY		REETCAR intended to build	Suite 600 Kansas City, MO 64131-3471		VOLUME:
	APPROVED BY	VKS	interest in bidding 22	816-360-2700 Certificate of Authority: 000856	SHEET 4	DRAWING NO .: SHEET NO .:
PLOT DATE: \$DATE\$ \$T	/E\$ DATE 12-23-2	022	JAN the project.	NOT FOR CONSTRUCTION		G013 5

SYMBOLS LEGEND	GENERAL NOTES		KCMO RELOCATION AND	REMOVAL NOTES
 ● ∰● OCS POLES SHOWN FOR REFERENCE ONLY ● ● EXISTING LED COBRA HEAD STREETLIGHT ON OC, EX EXISTING OCS POLE ● NEW LED COBRA HEAD STREETLIGHT ON TRAFFIC TS, OC, D SIGNAL/OCS POLE 	THE CITY, ALL WORK SHALL COMPLY WITH THE KANSASRESTORATION OF THECITY, MO, DEPARTMENT OF PUBLIC WORKS STANDARDSPECIFICATIONS. THECONSTRUCTION AND MATERIALS SPECIFICATION,RESPONSIBLE FOR ALLDIVISION II SECTION 2800, DIVISION V SECTIONDAMAGE, INCLUDING E5800, SUPPLEMENTAL CHANGES AND OTHER APWALANDSCAPING, SPRINK	CONSTRUCTION SITE TO CITY CITY, MO, DEPA CONTRACTOR SHALL ALSO BE STANDARD CONST COST ASSOCIATED WITH ANY SPECIFICATION	L COMPLY WITH THE KANSAS 8. ARTMENT OF PUBLIC WORKS, TRUCTION AND MATERIALS , DIVISION II / SECTION N V / SECTION 5800, AND ANY CHANGES.	STORAGE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY STORAGE OF MATERIALS, MAINTAINING, AND REPLACING MATERIALS (IN LIKE KIND) DAMAGED DURING THE CONSTRUCTION CONTRACT.
STREETLIGHT ON OCS/TRAFFIC SIGNAL POLE DC,RE DC,RE STREETLIGHT ON OCS/TRAFFIC SIGNAL POLE TS,D NEW LED LUMINAIRE ON TRAFFIC SIGNAL POLE EXISTING COBRA HEAD LED LUMINAIRE ON TS,EX TRAFFIC SIGNAL POLE EXISTING COBRA HEAD STREETLIGHT ON	OF-WAY" TO ITS ORIGINAL CONDITION.BY THE CONSTRUCTION1. ROADWAY AND AREA CLASSIFICATIONS FOR GRAND BLVD IS MAJOR/COMMERCIAL. PAVEMENT CLASSIFICATION IS R3 WITH A LLF OF .56. OBTAINED BY KCMO STREET LIGHTING DEPARTMENT.13. ALL WORKMANSHIP AND SUBJECT TO INSPECTI STREET LIGHTING, PL COORDINATE A FINAL BRYAN CARTER AT (81)2. THE GRAND BLVD LAYOUT WAS BASED ON THE24. CONSTRUCTION	N. 1. GENERAL: 7 RESPONSIBL O MATERIALS SHALL BE AND REINST ION AND APPROVAL BY THE STREET LIC JBLIC WORKS DEPARTMENT. CONTRACTOF JOINT INSPECTION WITH DISCONNECT 16) 513-9857. LIGHTING C WORKS, STE	THE CONTRACTOR IS 9. LE FOR THE COMPLETE REMOVAL TALLATION OF EXISTING GHTING EQUIPMENT. THE R SHALL COORDINATE THE TION OF THE EXISTING CIRCUIT WITH THE PUBLIC REETLIGHT, BRYAN CARTER AT	CLEARANCE AND RIGHT OF WAY: ALL STREETLIGHT EQUIPMENT SHALL MEET OR EXCEED THE LATEST REVISION OF NATIONAL ELECTRICAL CODE (NEC) AND NATIONAL ELECTRICAL SAFETY CODE (NESC) STANDARDS FOR LINE AND EQUIPMENT CLEARANCE. ALL POLES AND DISTRIBUTION CABLE MUST BE INSTALLED
TS, R TRAFFIC SIGNAL POLE TO BE REMOVED EXISTING COBRA HEAD STREETLIGHT POLE TO BE REMOVED NEW KCMO SIGNITY LUMEC TYPE 'D' LED LIGHT FIXTURE ON STREETLIGHT POLE EXISTING COBRA HEAD STREETLIGHT POLE TO	TYPE D: KCMO APPROVED, MULTI- VOLT. TYPE IILABELS SHALL BE KCM CONTACT WILLIAM FRI OR III OPTICS, 20KV SPD, 7 PIN RECEPTACLE, NEMA LABEL AND DIMMABLE DRIVER WITHLABEL CONTRACTO SHORTING CAP OR APPROVED EQUAL.3. DEDICATED KCMO STREETLIGHT POLES SHALL BESHALL CONSIST OF TH	AD-2X16-ADDS OR EQUAL. INSTALLAT ICK & COMPANY AT (847) 918- OR SHALL FURNISH AND INSPECTOR AND CONTROLLER CABINET ELS ACCORDING TO THE 2. POLE RELOC IDENTIFICATION LABELS SHALL STAK IREE LETTERS AND FOUR PLANS. PRI INDENTATION WITH THE THE CITY	• CATIONS: THE CONTRACTOR KE POLE RELOCATIONS PER IOR TO ANY CONSTRUCTION, INSPECTOR SHALL VERIFY THE	IN THE CITY'S "RIGHT-OF-WAY." SITE RESTORATION: THE CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION OF THE CONSTRUCTION SITE TO CITY SPECIFICATIONS AT NO ADDITIONAL COST. CONTRACTOR IS ALSO RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY DAMAGE, INCLUDING BUT NOT LIMITED TO
NEW KCMO PHILIPS TYPE 'C' LED LUMINAIRE NOC C ON OCS POLE D → D NOC & C' LED LIGHT FIXTURES ON OCS POLE C → C & C' LED LIGHT FIXTURES ON OCS POLE D NEW TWIN KCMO AMERICAN ELECTRIC TYPE 'D' D NEW TWIN KCMO AMERICAN ELECTRIC TYPE 'D' D NEW TWIN KCMO AMERICAN ELECTRIC TYPE 'D'	HEIGHT OF 32, 35 AND 40FT. ALL OTHER POLES, MOUNTING HEIGHTS AND ARMS SHALL BE PER PLANS. 4. ALL DISTRIBUTION CABLE SHALL BE INSTALLED IN SCHEDULE 40, 2" PVC CONDUIT OR IN PREASSEMBLED "CABLE-IN-DUCT." ALL CONDUIT RUNS SHALL BE PLACED 2FT FROM BACK OF CURB DECORATIVE POLES MU	SO AS TO READ DOWNWARD.POLE LOCATINCH SERIES "C" UPPER CASECONTRACTOFINCH SERIES "C" UPPER CASECONTRACTOFSURE SENSITIVE ADHESIVEINSTALLEDSURE SENSITIVE ADHESIVESTREET ANDIBED FOR USE ON STANDARDOR MATCH EIHE FHWA MANUAL OF UNIFORMENGINEER V/ICES. LABELS FORMINIMUM AD	TIONS STAKED BY THE R. THE POLE MUST BE PERPENDICULAR TO THE D 3FT BEHIND BACK OF CURB EXISTING POLES. THE	LANDSCAPING, SPRINKLER SYSTEMS, WATER, SEWER, CURB AND SIDEWALK, GAS MAIN, ETC., CAUSED BY THE CONSTRUCTION. CONTRACTOR TO COORDINATE POWER SOURCE FOR NEW STREET LIGHTING CONTROLLER WITH EVERGY POWER
 NOC NEW KCMO AMERICAN ELECTRIC TYPE 'D' LED D LIGHT FIXTURE ON OCS POLE → ■EX EXISTING SHOEBOX STREETLIGHT POLE TO REMAIN → ■R EXISTING SHOEBOX STREETLIGHT POLE TO BE REMOVED 	 24". 5. PER APWA SECTION 5800, ALL STREETLIGHT POLES, MATERIALS AND CONTROLLER MUST BE INSTALLED WITHIN THE CITY'S "RIGHT-OF-WAY." 6. DISTRIBUTION CABLE SHALL BE PER PLANS TYPE RHH/RHW/USE, 240 VOLT, COPPER STRANDED AND 5. PER APWA SECTION 5800, ALL STREETLIGHT SELF-ADHESIVE DECAL LABEL SHALL BE POLS RIGHT-OF-WAY." 6. DISTRIBUTION CABLE SHALL BE PER PLANS TYPE RHH/RHW/USE, 240 VOLT, COPPER STRANDED AND 	3. POLE AND C ARD ARD AFFIXING L DIRECTLY ON THE POLE. THE TION ON THE VERTICAL AXIS THE STREET AND 8-10 FEET SURFACE. LABELS ON POSITIONED NEAR THE TOP OF THE DOOR HINGE. 3. POLE AND C HARDWARE CO DAMAGED OF FOR INSTAL REMOVING. THE POLES 0 THE DOOR HINGE.	RLY SIZED, EXCEPT IF R DETERMINED TO BE UNFIT LLATION, WORK SHALL INCLUDE REPLACING AND RESETTING PER PLANS, ALL CONCRETE D TO BE REMOVED 2FT BELOW	COMPANY. CONTRACTOR TO COORDINATE THE REMOVAL OF EXISTING CONDUCTORS AND ABANDON EXISTING CONDUIT FOR THE EXISTING LIGHTING CIRCUIT THAT WILL NOT BE USED FOR COMBINED OCS POLE WITH STREET LIGHTING WITH KCMO CITY INSPECTOR.
 C→■ RE RELOCATED TO NEW LOCATION EXISTING PEDESTRIAN LIGHT AND POLE TO REMAIN © R EXISTING PEDESTRIAN LIGHT AND POLE TO BE REMOVED © EXRX EXISTING PEDESTRIAN LIGHT AND POLE TO BE REMOVED © EXRX EXISTING PEDESTRIAN LIGHT AND POLE TO BE RELOCATED X DESIGNATION FOR POLE NUMBER 	COLOR CODED BLACK, RED (OR BLACK) AND GREEN (APWA 2802.10) FOR A GROUNDED 240 VOLT SYSTEM (SINGLE PHASE). 7. CABLE USED WITHIN THE POLES SHALL BE 3-#10, TYPE RHW/USE, 600 VOLTS RATED, COPPER STRANDED, U.L. LISTED AND COLOR-CODED RED, TO PREVENT CONDUCTO	GRADE, BAC STREETLIGHT POLES, THE IDENTICAL STALL A CABLE RETAINER TWEEN A LUMINAIRE TYPE 4. UTILITIES ANCHOR. THE RETAINER IS UTILITY LO THE ELECTRICAL CONDUCTORS THE CONTRA DR THEFT. CONTACT PELCO AT CONSTRUCTI INFORMATION AND MATERIAL. APPROVE AN	CK-FILLED WITH PROJECT-SITE MATERIAL, AND COMPACTED. 13. LOCATES & REPAIRS: ALL OCATES SHALL BE ORDERED BY ACTOR. PRIOR TO ANY ION, THE ENGINEER SHALL NY CHANGES TO THE PLANS DUE	CONTRACTOR TO MAINTAIN EXISTING LIGHTING CIRCUITS DURING CONSTRUCTION WHEN POSSIBLE. IN AREAS WHERE THIS CANNOT BE ACHIEVED. COORDINATE WITH KCMO STREET LIGHTING INSPECTOR.
 REX RELOCATED EXISTING PEDESTRIAN LIGHT AND POLE X DESIGNATION FOR POLE NUMBER EX EXISTING STREET LIGHTING CONTROLLER TO LTC REMAIN RE EXISTING STREET LIGHTING CONTROLLER TO LTC BE RELOCATED LTC NEW STREET LIGHTING CONTROLLER 	SINGLE-POLE, SET-SCREW, IN-LINE, BREAKAWAY, COMBINED OCS/SL POL FUSEHOLDERS, USE BUSSMAN (OR APPROVED EQUAL) MODEL NO. HEB-JW-RYC AND HEB-JW-RLC-J (LAST 17. STREETLIGHTS MOUNTE	E KCMO LUMINAIRE LABELS ON LES PER NOTE 14. ED ON TRAFFIC SIGNAL POLE PERPENDICULAR TO THE ROAD HERWISE. CONTRACTOF CONTRACTOF REPAIRING CONTRACTOF REPAIRING DURING THE PROJECT. A EXISTING UTILITIES	Y OR OTHER CONFLICTS. THE 14. R WILL BE RESPONSIBLE FOR ALL STREET LIGHTING AND UTILITIES DAMAGED E CONSTRUCTION OF THE ANY DAMAGE CAUSED TO LIGHTING EQUIPMENT AND BY THE CONTRACTOR'S DEM ION, SHALL BE REPAIRED BY EX	
 ☑ PB NEW PULL BOX ☑ PULL BOX FOR TRAFFIC SIGNAL ☑ RE EXISTING EVERGY PAD MOUNTED TRANSFORMER ☑ EX EXISTING EVERGY PAD MOUNTED TO ☑ EX EXISTING EVERGY PAD MOUNTED TO ☑ EX EXISTING EVERGY CAULTON OF AN IN 	 9. INDIVIDUAL AND SYSTEM GROUNDS SHALL BE INSTALLED ON ALL CIRCUITS (POLE GROUNDING RODS AND A GROUND WIRE FROM POLE TO POLE). GROUNDING SHALL COMPLY WITH SECTION 2803.8 OF STANDARDS NOTED ABOVE. 10. ALL CONDUIT CROSSINGS SHALL BE INDICATED WIRING DIAGRAMS OF SIGNAL POLES. 19. COORDINATE WITH EVE JOEY WHITE EMAIL, J COORDINATE WITH SECTION 2803.8 OF STANDARDS NOTED ABOVE. 20. PEDESTRIAN AREA CLA FOR MEDIUM CONFLICT 	LUMINAIRES ON TRAFFIC THE APPROF CONTRACTOF ERGY CONTACT PERSON: 5. DISTRIBUT JOEY.WHITE@EVERGY.COM DISTRIBUT ASSIFICATION IN THE RP-8 CONDUIT OF F AREA: IN-DUCT."	PRIATE UTILITY AT THE JB R'S EXPENSE. DCS PVC ION CABLE INSTALLATION: ALL RGS ION CABLE SHALL BE SCH IN SCHEDULE 40, 2" PVC STA R IN PREASSEMBLED "CABLE UON MATCH EXISTING CABLE SIZE WP	JUNCTION BOX OVERHEAD CONTACT SYSTEM POLYVINYLCHLORIDE RIGID GALVANIZED STEEL SCHEDULE STATION UNLESS OTHERWISE NOTED WEATHERPROOF
SG EXISTING EVERGY SWITCH GEAR TO REMAIN EB EXISTING ELECTRICAL POWER BOX TO BE EX.R RELOCATED ■ EB RELOCATED ELECTRICAL POWER BOX 	WITH AN ALUMINUM MARKER IN THE TOP OF CURB. ALUMINUM MARKERS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.É AVG.: 0.5 (F E MIN.: 0.2 (F E AVG./MIN.: 411. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES AS MAY BE NECESSARY TO AVOID21. THE POLE SETBACK FF TO HELP PREVENT THE VEHICLE. THIS SHOUL HEAVILY TRAVELED ST	C) AND TYPE. C) PLACED 2FT POSSIBLE / 24". ALL S ROM CURB SHOULD BE SELECTED POLE BASE POLE FROM BEING STRUCK BY SPLICES OF D. BE 8 0R MORE FEET ON ALLOWED. REETS. AN APPROPRIATE	ALL CONDUIT RUNS SHALL BE NOC T FROM BACK OF CUB WHERE EXR AND AT A MINIMUM DEPTH OF SPLICES MUST BE DONE IN THE OR PULL BOX, NO MID-SPAN R BURIED SPLICES ARE	
I PHASE WIRE) GROUND WIRE	DAMAGE. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, STRUCTURES AND OVERHEAD LINES BY CONTACTING THE OWNERS OF THE UTILITIES. LIMITED ACCESS ROAD BE USED TO PREVENT THE POLE. 22. ALL NEW OCS POLE AN NEED TO MAINTAIN 10	A TO PUT THE LUMINAIRE AT 6. FUSING: ON HOULD BE SPECIFIED, ON STREETLIGH WAYS, THE USE OF BREAKAWAY AMENCED. GUARDRAIL CAN ALSO A VEHICLE FROM STRIKING 7. ANTI-THEFT EQUAL RETA	N DEDICATED KCMO HT POLE REPLACEMENTS OR NS, MATCH EXISTING LIGHTING PER KCMO APWA. T DEVICE: PELCO OR APPROVED AINERS SHALL BE INSTALLED TED KCMO POLES.	
REV DATE DESCRIPTION	DESIGNED BY AAS This set of plans is ISSUED FOR		KANSAS CITY STREETCAR - RIV	VERFRONT EXTENSION SCALE FOR 22"x34":
	CHECKED BY CKB APPROVED BY AAS APPROVED BY AAS	816-350-1473 856 Certificate of Authority: 000239	GENERAL LIGHTING NOTES AI	ND SYMBOL LEGEND
PLOT DATE: 12/22/2022	2:01:39 PM DATE 12-23-2022	NOT FOR CONSTRUCTION		

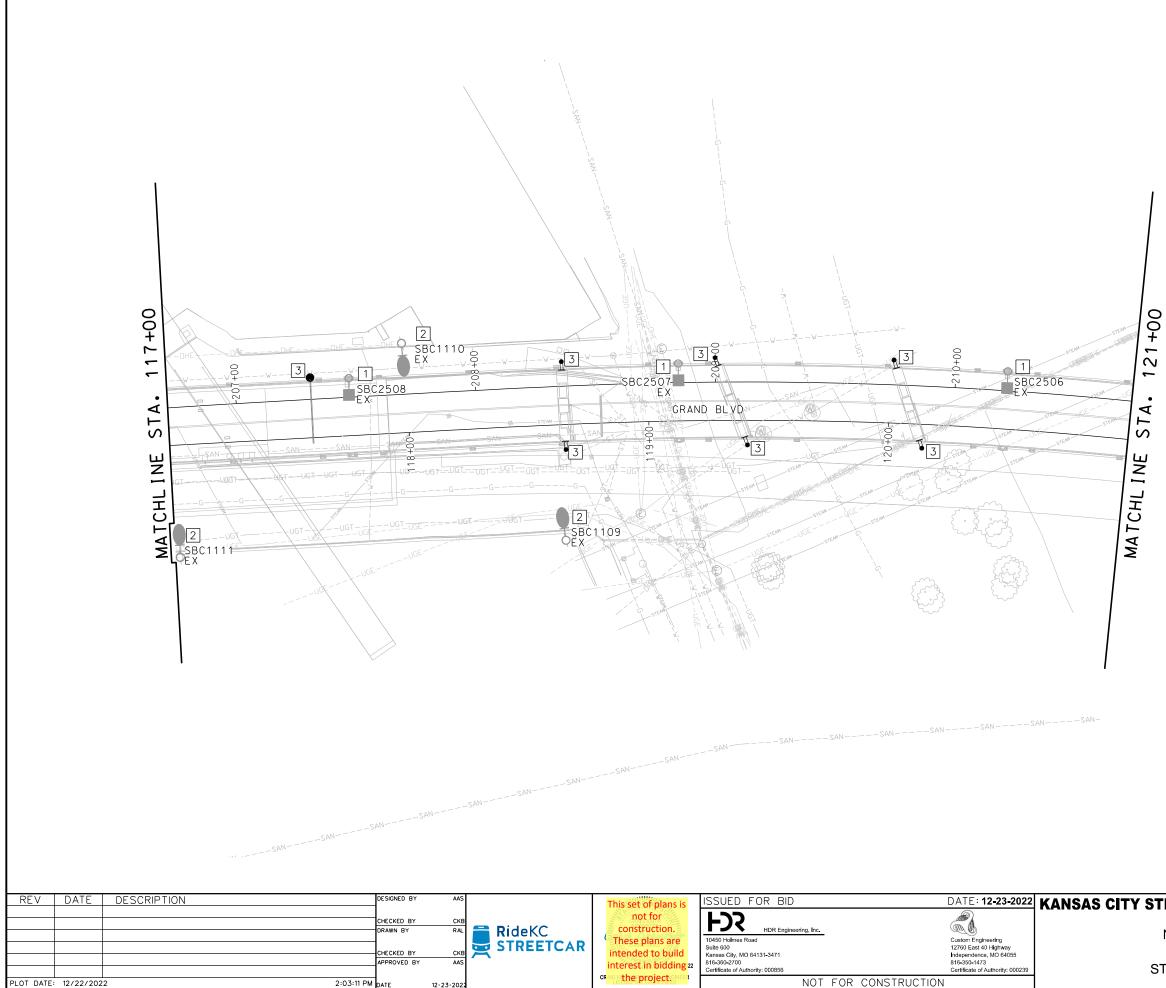


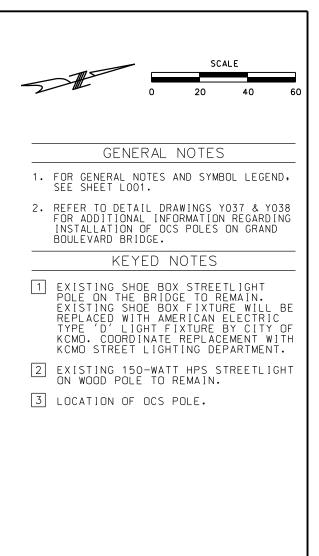
ABLE	_							
R 56.49	\sum					SCALE		
R 22.83		Mer.		0	2	0 .	40	60
R 21.41					_			
R 21.27								
R 25.96			GENE	RAL	NO	res		<u> </u>
	1.	FOR GENE			AND S	SYMBOL	LEG	END,
		0000			NOTI	ĒS		
	1	EXISTING EXISTING						
	2	EXISTING EXISTING						
	3	LOCATION				10 1121		
/	4	EXISTING EXISTING	COBRA OCS PO	HEAD DLE TO	LED S D REMA	TREETLI IN.	GHT	ON
	5	EXISTING	SHOEB)X LI(GHT PO	LE TO B	E	
		RELOCATED SHOEBOX D EXTEND EX LOCATION	_IGHT F XISTING	POLE #	AT NEW	LOCATI	ON.	
	6	EXISTING	PEDES	FR I AN	LIGHT	TO REM	IA I N .	
	7	EXISTING RELOCATED SPACE. PF PEDESTRIA	D TO NE ROVIDE AN LIGH	EW LOC NEW F HT POL	CATION POLE B LE AT	IN NEW ASE FOR NEW LOC	GRE ATIC	EEN DN.
000		PROVIDE I LOCATION ABANDONEI EXISTING RECONNEC PEDESTRIA	• REMOY D EXIS PEDES T TO EX	VE EXI FING (FRIAN KISTIN	ISTING CONDUI LIGHT NG CIR	CONDUC T FOR R POLES.	TORS ELO(S AND
5	8	RELOCATE STREETLIC LOCATION SHEETS FO POLE.	EXIST GHT FIX SHOWN	ING LE KTURE ON PL	ED COB ON OC AN, R	S POLE. EFER TO		5
	9	EXISTING EXISTING EVERGY WO FIXTURES STREETLIO INTERSEC	EVERG` DOD POL WIRES GHT ON	Y WOOD E HAS THAT TRAFF) POLE S EXIS PROVI FIC SI	TO REM TING CO DE POWE GNAL PO	IAIN. INDUI R FO ILES	IT AND DR
	10	EXISTING EXISTING REMOVED. LIGHT FIX OF KANSAS	TRAFF DELIVE XTURE	IC SIC ER EXI FO MA	GNAL P ISTING INTENA	OLE TO COBRA	BE HE AC) LED
HT TO BE REMOVED. N 2" CONDUIT FROM TO NEW LED 5' POLE. PROVIDE T L302. REFER TO IRE TYPE 'D' ON STREET LIGHTING	11	NEW LED I POLE, REF LOCATION SIGNAL OO LUMINAIR EVERGY PO ON TRAFF FOR REFE	FER TO OF NEN CS POLE E. PRON DWER PO IC SIGN	TRAFF N LED E AND VIDE 1 DLE TO NAL PO	FIC SI LUMIN CONDU 1-3#8 D EACH	GNAL SH AIRE ON IT SIZE FROM EX LED LU	EETS TRA FOF ISTI MINA	SFOR AFFIC NG AIRES
LIGHTING AFFIC SIGNAL TRAFFIC SIGNAL	12	REMOVE EX SIGNAL PO CONDUCTOR PULL BOX	DLES CO R AND	ONTRAC INTERC	CTOR T CEPT C	O PULL ONDUIT	BACK	ζ.
RES TO EXISTING BE PULLED BACK	13	2 #6, 1						
ING CIRCUIT FOR C SIGNAL POLES.	14	2 #8, 1 TRAFFIC S PROVIDED	SIGNAL	POLES	5 IN 2	" CONDU		
STREETCAR - RI	VE					SCALE FOR 1" = 20'	22''×3	;4'':
NORTHBOUND	TR	ACK				FILENAME: L101.dgn CONTRACT CONTRACT N		
LIGHTING P						VOLUME: 1 DRAWING NO		EET NO -
STA BEGIN TO ST	IA 1	13+00				L101		255



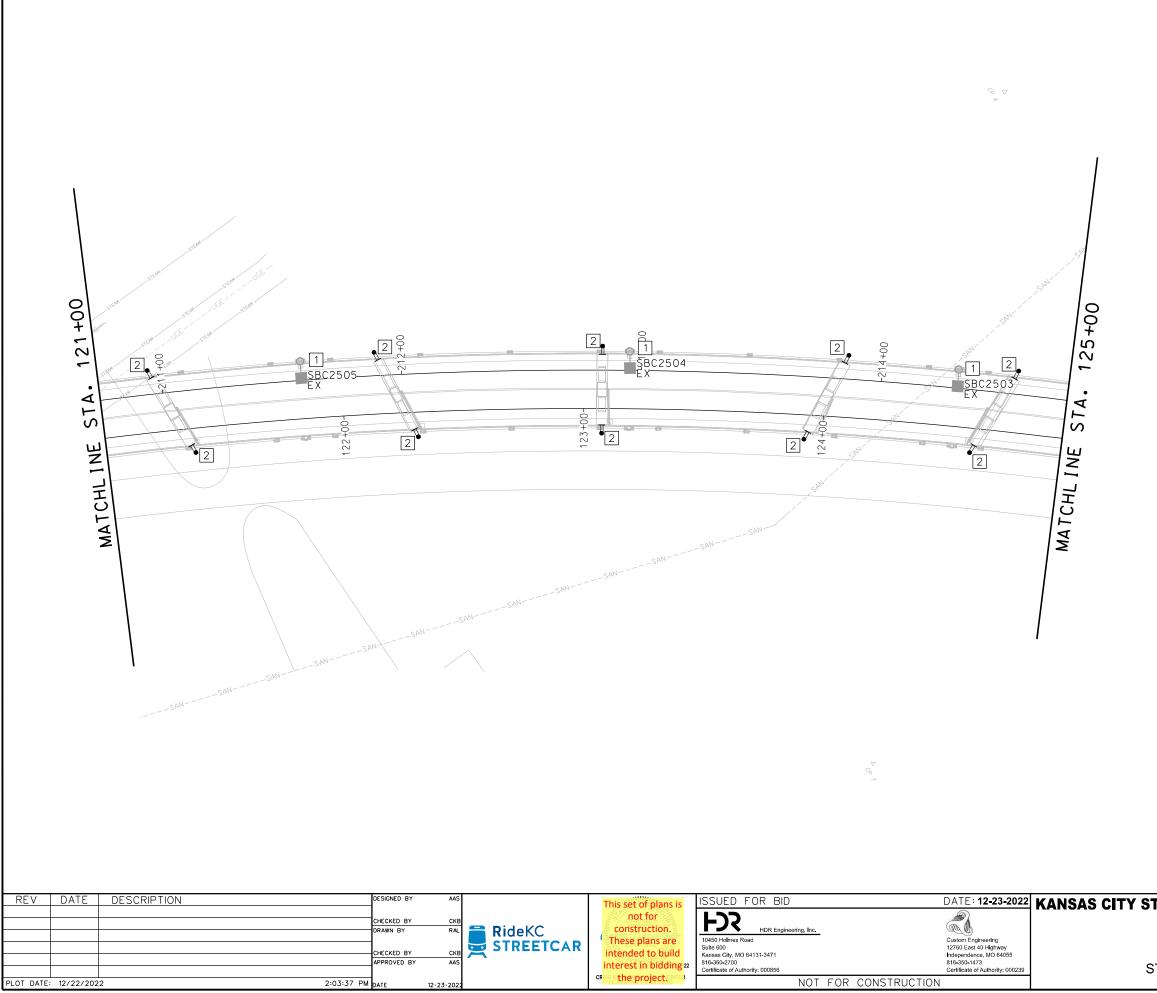
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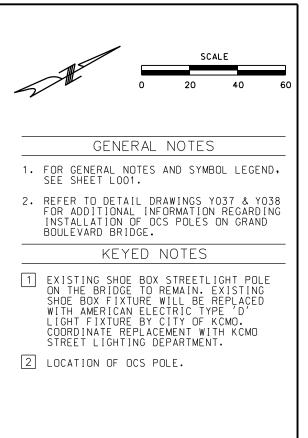
S					
MBOL LEGEND,			~	C 41 5	
Y037 & Y038 ON REGARDING S ON GRAND		0	20	CALE 40	60
BLE					
OFFSET	KEN	éd n	IOTES		
R 25.31	1 EXISTING COBRA STREETLIGHT ON REMAIN.				0
	2 LOCATION OF OC	S POLE.			
	3 EXISTING COBRA STREETLIGHT ON TO REMAIN.				D POLE
	4 EXISTING COBRA LIGHT ON METAL				TREET
	5 EXISTING COBRA EXISTING OCS P GREEN SPACE. R	OLE TO EFER TO	BE RELI OCS SI	DCATED HEETS F	IN NEW
	STATIONING OF	BOX STR	EETLIG	HT POLE	
	BRIDGE TO REMA FIXTURE WILL B ELECTRIC TYPE OF KCMO, COORD STREET LIGHTIN	E REPLA 'D' LIG INATE R	CED WI HT FIX EPLACE	TH AMEF TURE BY	CITY
	7 EXISTING PEDES RELOCATED TO N SPACE. PROVIDE PEDESTRIAN LIG PROVIDE NEW CO	EW LOCA NEW PO HT POLE NDUIT A	TION II DLE BASI AT NE ND WIRI	N NEW C E FOR W LOCAT ES TO N	REEN ION. IEW
	LOCATION, REMO ABANDONED EXIS EXISTING PEDES RECONNECT TO E PEDESTRIAN LIG	TING CO TRIAN L XISTING	INDUIT I IGHT PI CIRCU	FOR REL DLES.	
	NEW LED LUMINA REFER TO TRAFF LOCATION OF NE SIGNAL AND CON PROVIDE 1-3#8 LIGHTING CIRCU ON TRAFFIC SIG FOR REFERENCE LIGHTING NUMBE DEPARTMENT.	IC SIGN W LED L DUIT SI FROM EX IT TO E NAL POL ONLY, C	IAL SHEI UMINAII ZE FOR ISTING ACH LEI E.LUMII	ET FOR RE ON T LUMINA STREET D LUMIN NAIRE S ATE STR	RAFFIC IRE. IAIRES HOWN REET
	9 PULL BOX FOR T LOCATION WITH BOX IS SHOWN F				INATE • PULL
FFIC SIGNAL _ SHEET FOR E ON TRAFFIC	10 EXISTING PULL LIGHT TO REMAI		EXIST	ING STF	RET
LUMINAIRE, STREET LUMINAIRES ON RE SHOWN FOR IREET LIGHTING IING	11 CABINET FOR TR TRAFFIC SIGNAL LOCATION, CABI SHOWN FOR REFE	AFFIC S SHEETS NET FOR	FOR C. TRAFF	AB I NE T	
D BE RELOCATED TION WITH WHITE, BY E-	12 1-3#8 IN 2" CO FROM PULL BOX EXISTING PULL EXISTING STREE EXISTING CIRCU	FOR TRA FOR STR TLIGHT	FFIC S EETLIGI	IGNAL T HT INTE	O RCEPT
JLL BOX. T JUCTION BOX FOR NEW KCMO POLES SHOWN ON V FOR	13 2 #6, 1 #6 GND		CONDUI	Τ.	
			1001	LE FOR 22	
STREETCAR - R	VERFRONT EXT	ENS		20' NAME:	
NORTHBOUND			CON	2.dgn ITRACT NO. TRACT NO. •	
			VOL 1	UME:	SHEET NO.:
STA 113+00 TO S ⁻				_102	256



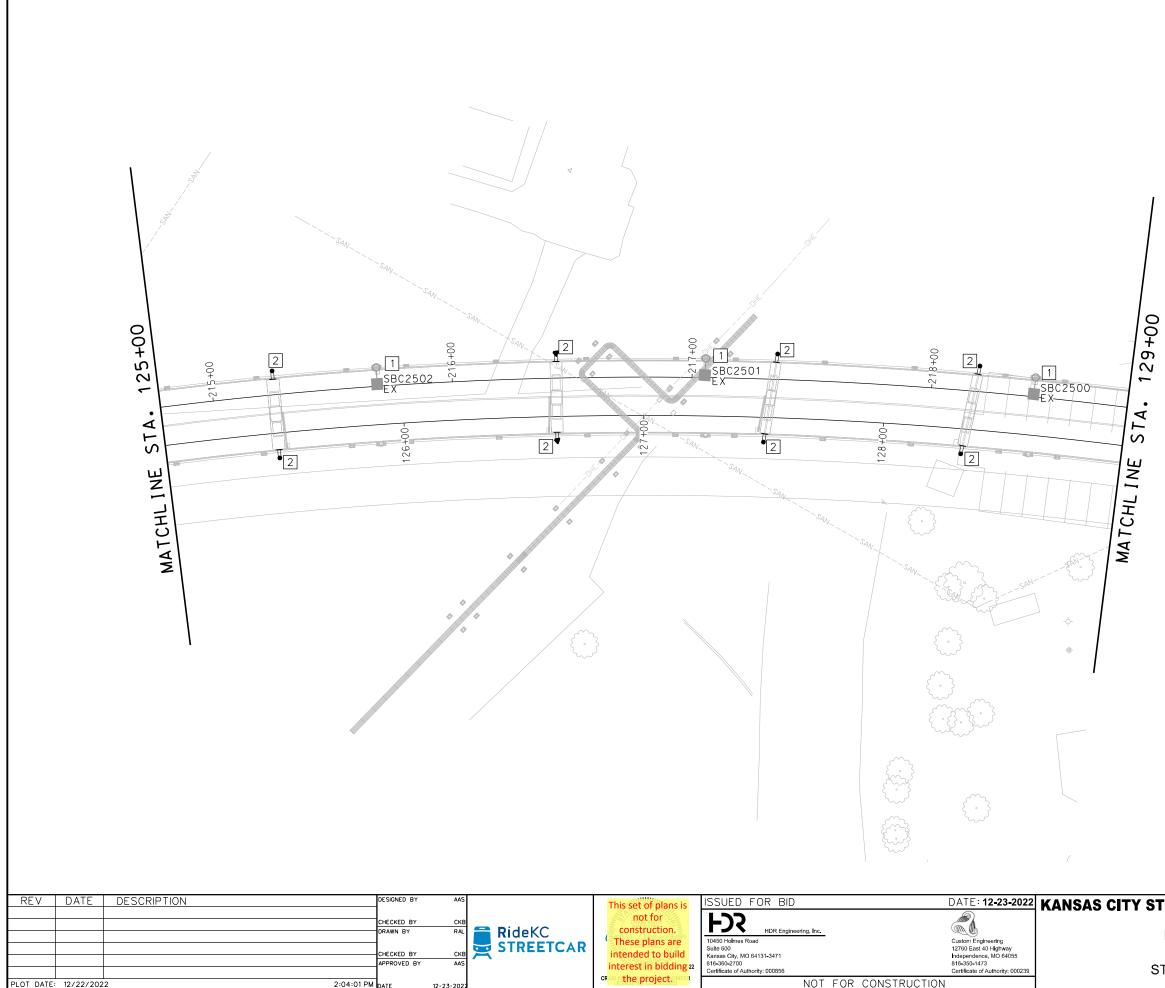


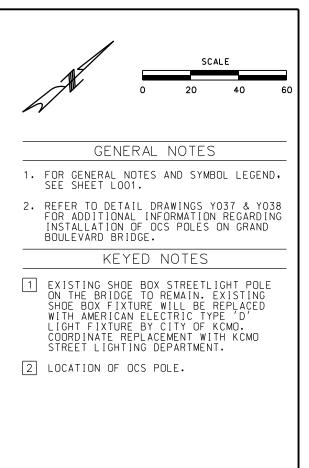
	SCALE FOR 22	"x34":
TREETCAR - RIVERFRONT EXTENSION		
	FILENAME:	
	L103.dgn	
NORTHBOUND TRACK	CONTRACT NO.	:
	CONTRACT NO	••
LIGHTING PLAN	VOLUME:	
	1	
STA 117+00 TO STA 121+00	DRAWING NO.:	SHEET NO.:
	1 1 0 3	257
		201



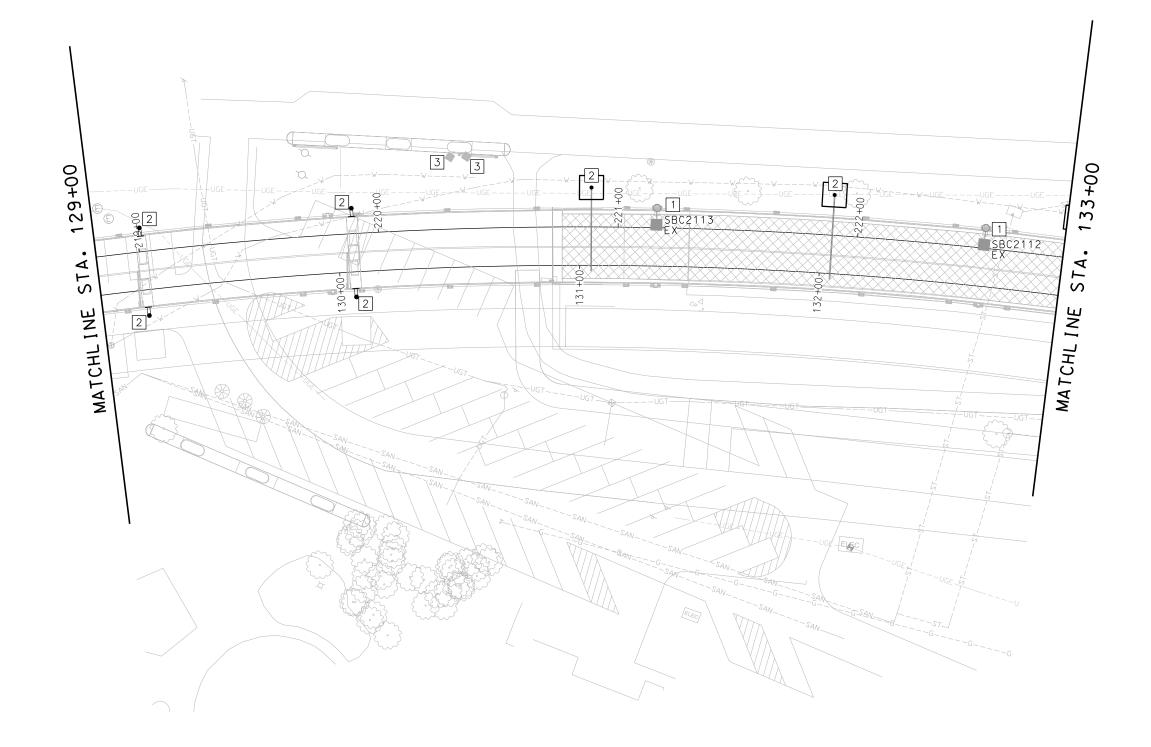


TREETCAR - RIVERFRONT EXTENSION	SCALE FOR 22 1" - 20'	"x34":
	FILENAME: L104.dgn	
NORTHBOUND TRACK	CONTRACT NO. CONTRACT NO. •	
LIGHTING PLAN	VOLUME: 1	
STA 121+00 TO STA 125+00	DRAWING NO.:	SHEET NO.:
TA 121-00 TO STA 123-00	L104	258

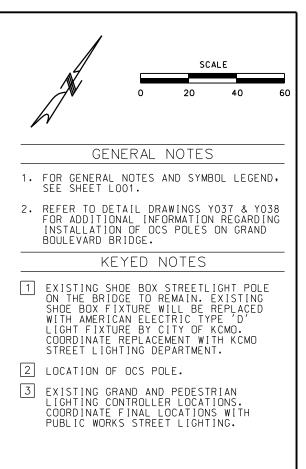




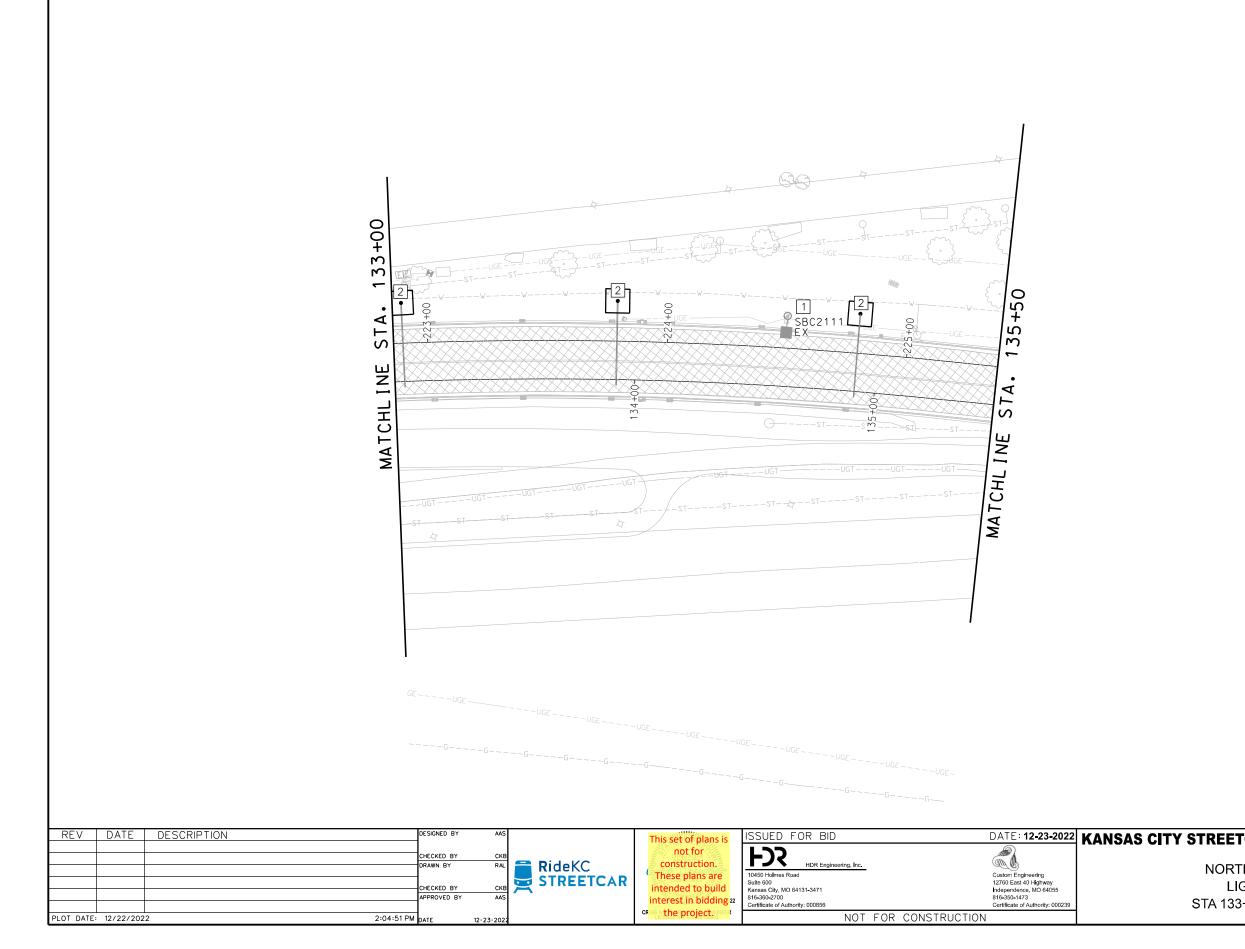
TREETCAR - RIVERFRONT EXTENSION	SCALE FOR 22 1" - 20'	"x34":
	FILENAME: L105.dan	
NORTHBOUND TRACK	CONTRACT NO.	
LIGHTING PLAN	CONTRACT NO. • VOLUME:	••
TA 125+00 TO STA 129+00	1 DRAWING NO.:	SHEET NO.:
STA 125+00 TO STA 129+00	L105	259

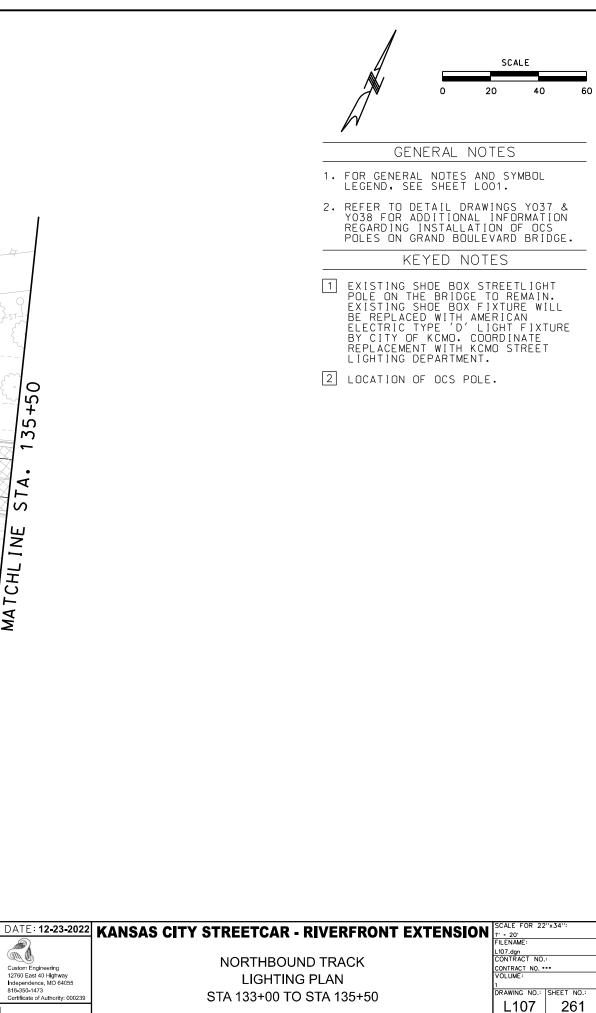


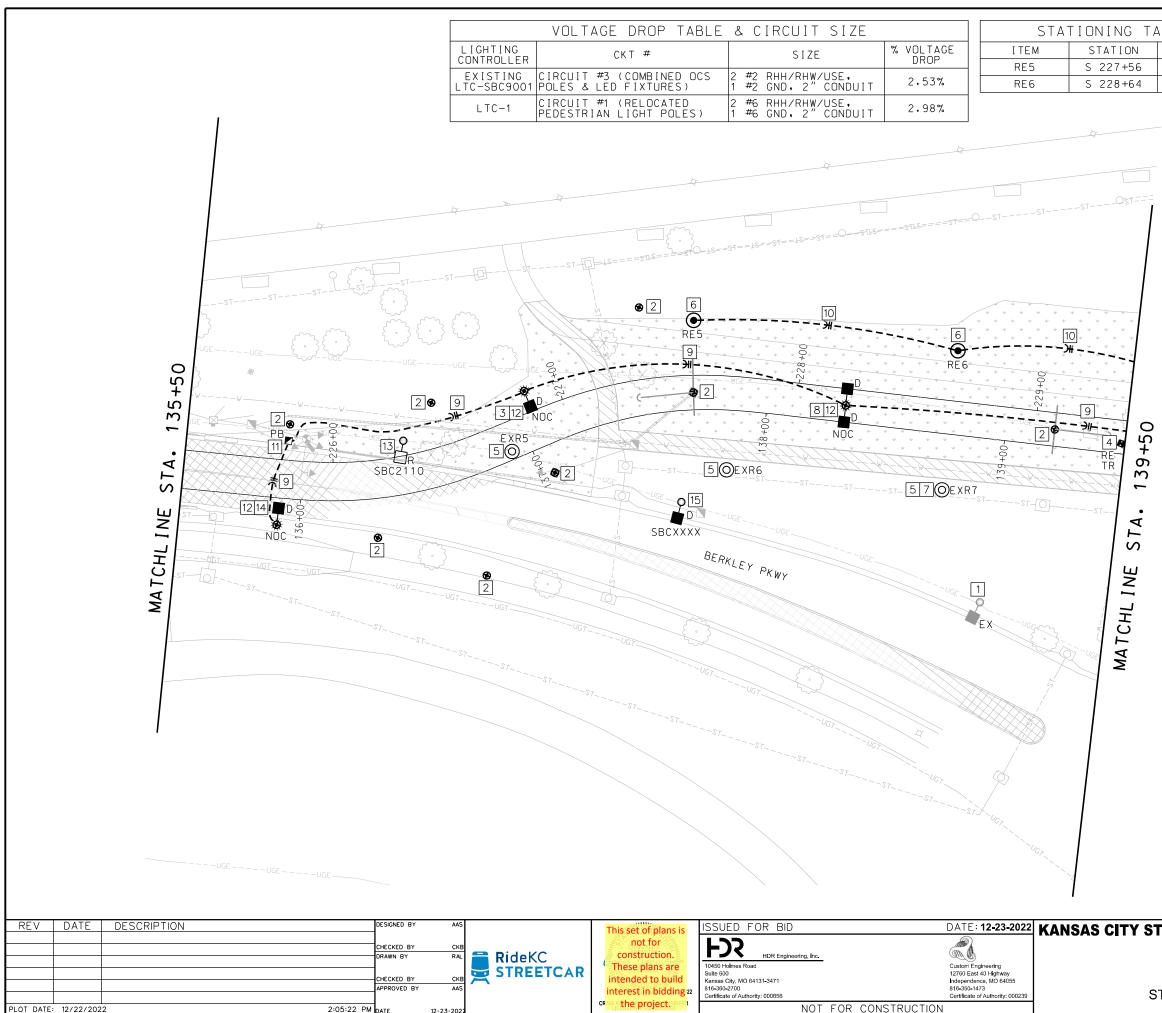
REV DATE DES	SCRIPTION	DESIGNED BY	AAS		This set of plans is	ISSUED FOR BID	DATE: 12-23-2022	KANSAS CITY STI
		CHECKED BY DRAWN BY	CKB RAL	🖀 RideKC	not for construction.	HDR Engineering, Inc.		1
		CHECKED BY	СКВ	STREETCAR	 These plans are intended to build 	10450 Holmes Road Suite 600 Kansas City, MO 64131-3471	Custom Engineering 12760 East 40 Highway Independence, MO 64055	,
PLOT DATE: 12/22/2022	2:04:26 PM	APPROVED BY	AAS 12-23-2022		interest in bidding ²²	816-360-2700 Certificate of Authority: 000856 NOT FOR CONS	816-350-1473 Certificate of Authority: 000239 STRUCTION	ST



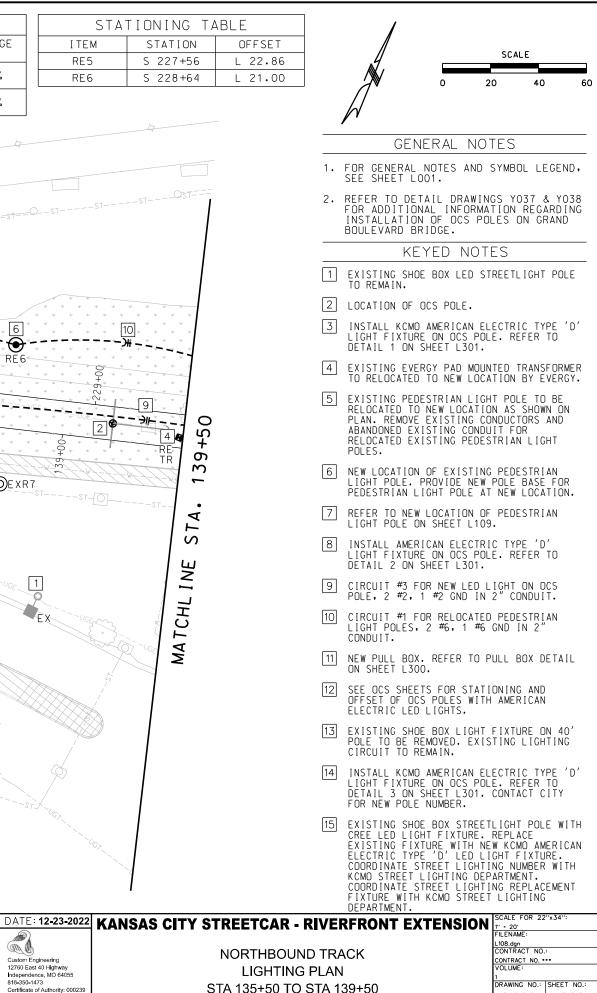
TREETCAR - RIVERFRONT EXTENSION	SCALE FOR 22	"x34":
	FILENAME	
	L106.dgn CONTRACT_NO.	
NORTHBOUND TRACK	CONTRACT NO	
LIGHTING PLAN	VOLUME:	
	1 DRAWING NO.:	SHEET NO.:
TA 129+00 TO STA 133+00	L106	260







2	ABLE
	OFFSET
	L 22.86
	L 21.00



L108

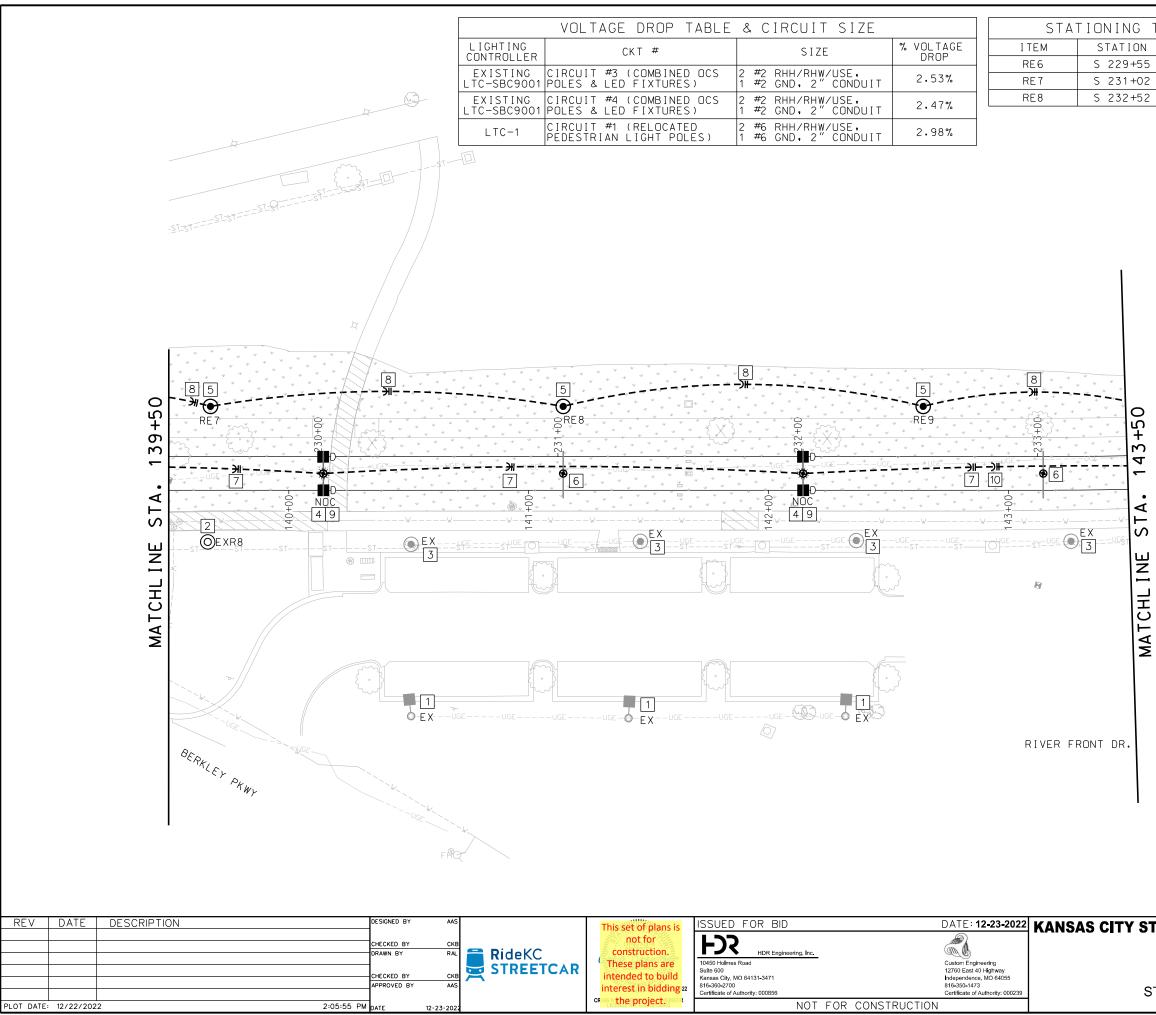
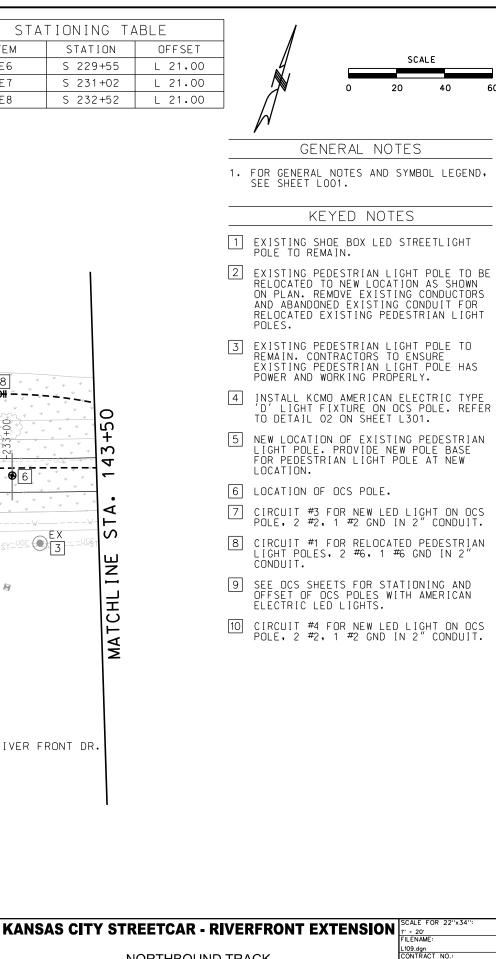


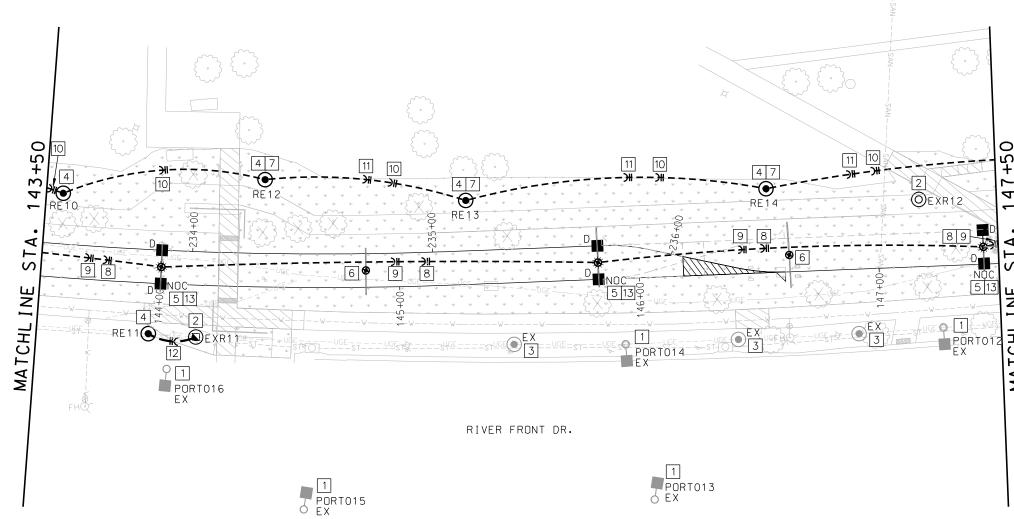
TABLE					
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	L 21.00				
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	L 21.00				



NORTHBOUND TRACK LIGHTING PLAN STA 139+50 TO STA 143+50

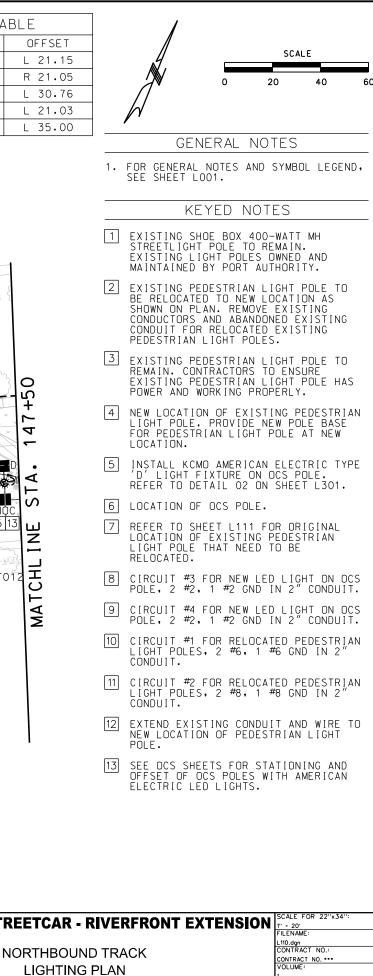
CONTRACT NO. *** VOLUME:

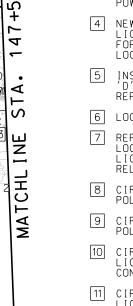
	VOLTAGE DROP TABLE	& CIRCUIT SIZE			STAT	IONING T
LIGHTING CONTROLLER	CKT #	SIZE	% VOLTAGE DROP	ITE	M	STATION
			DIXOI	RE1	0	S 233+44
	CIRCUIT #3 (COMBINED OCS POLES & LED FIXTURES)	2 #2 RHH/RHW/USE, 1 #2 GND, 2" CONDUIT	2.53%	RE 1	1	N 143+46
EXISTING	CIRCUIT #4 (COMBINED OCS	2 #2 RHH/RHW/USE,	0 1791	RE 1	2	S 234+30
LTC-SBC9001	POLES & LED FIXTURES)	1 #2 GND, 2" CONDUIT	2.47%	RE 1	3	S 235+15
	CIRCUIT #1 (RELOCATED PEDESTRIAN LIGHT POLES)	2 #6 RHH/RHW/USE, 1 #6 GND, 2" CONDUIT	2.98%	RE 1	4	N 146+54
	CIRCUIT #2 (RELOCATED PEDESTRIAN LIGHT POLES)	2 #8 RHH/RHW/USE, 1 #8 GND, 2" CONDUIT	1.13%			



	DATE	DESCRIPTION	DESIGNED BY CHECKED BY DRAWN BY CHECKED BY APPROVED BY	AAS CKB RAL CKB AAS	RideKC STREETCAR	This set of plans is not for construction. These plans are intended to build interest in bidding 2	ISSUED FOR BID HDR Engineering, Inc. 10450 Holmes Road Suite 600 Kansas City, MO 64131-3471 815-360-2700 certificate of Authority: 000856	Custom Engineering 12760 East 40 Highway Independence, MO 64055 816-350-1473	KANSAS CITY STREETCAR - RIVERFRON NORTHBOUND TRACK LIGHTING PLAN STA 143+50 TO STA 147+50
PLOT DATE	: 12/22/2022	2 2:06:20 P		AAS 12-23-2022		interest in bidding ²² ^{CR} the project.	Certificate of Authority: 000856	816-350-1473 Certificate of Authority: 000239 NSTRUCTION	STA 143+50 TO STA 147+50

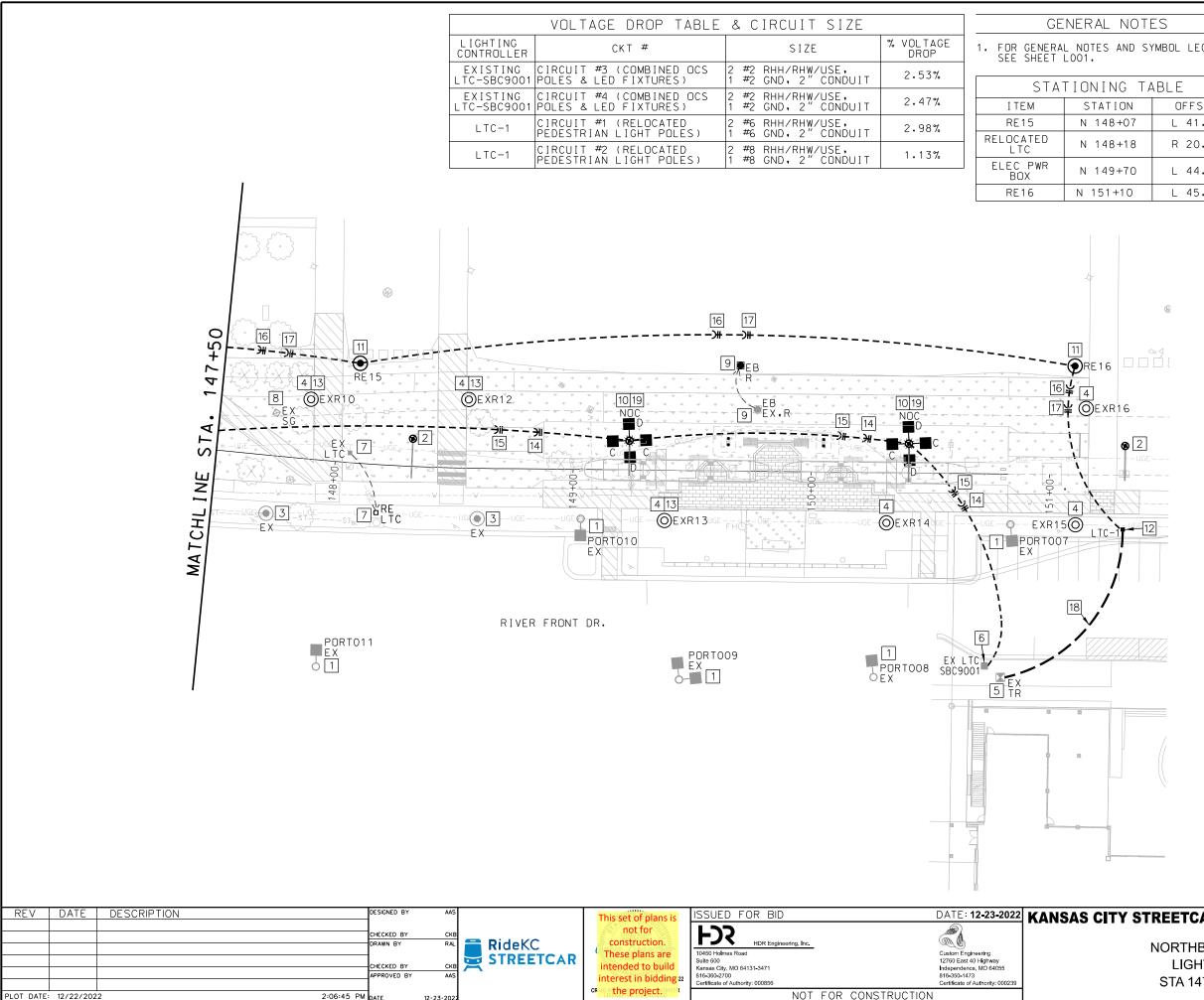
-μ	ABLE								
	OFFSET								
	L 21.15								
	R 21.05								
	L 30.76								
	L 21.03								
	L 35.00								





DRAWING NO.: SHEET NO.:

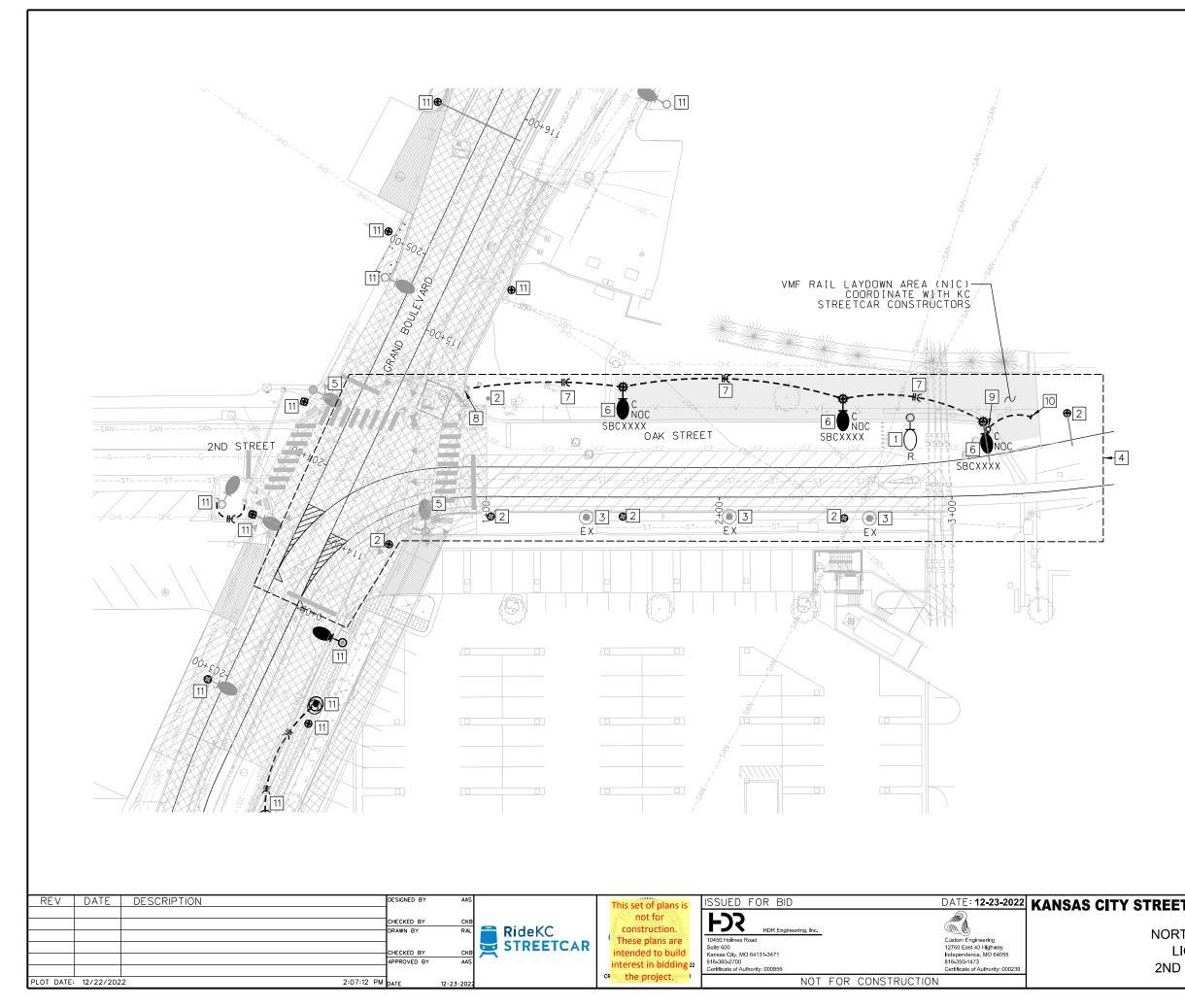
L110

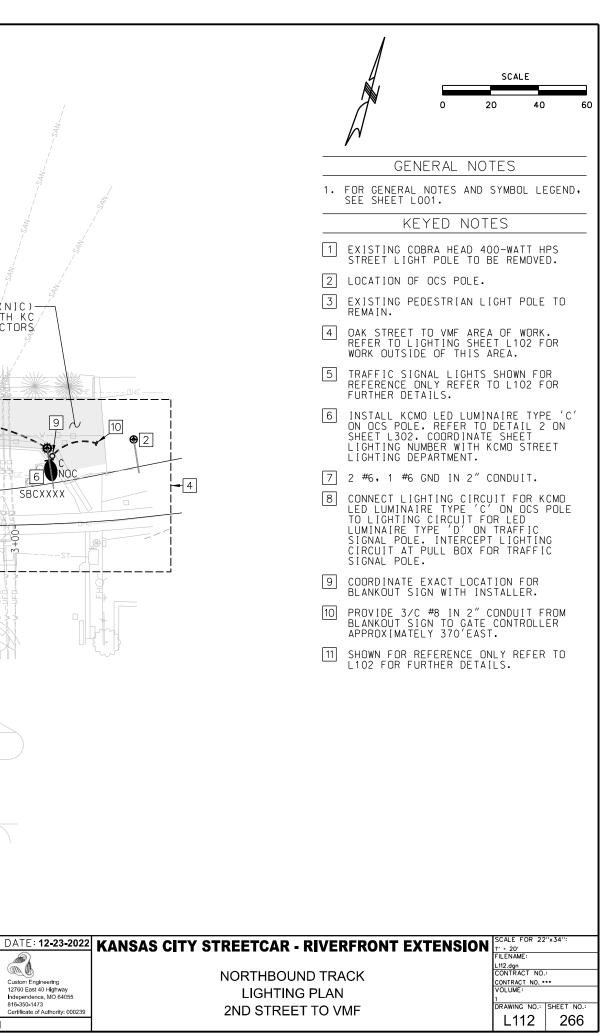


-	E	S

ABLE								
	OFFSET							
	L 41.93							
	R 20.17							
	L 44.38							
	L 45.59							

TES	-	1			
SYMBOL LEGEND,	_			SCALE	
	-		20) 60
TABLE	_		20	5 40	0 00
OFFSET L 41.93	- /	γ			
R 20.17		KEYED N	10 T E	ES	
L 44.38	1	EXISTING SHOE BOX ST POLE TO REMAIN.	REET	LIGHT ON	METAL
L 45.59	2	LOCATION OF OCS POLE			
	3	EXISTING PEDESTRIAN CONTRACTORS TO ENSUR PEDESTRIAN LIGHT POL WORKING PROPERLY.	REEX	ISTING	
œ	4	EXISTING PEDESTRIAN RELOCATED TO NEW LOC PLAN. REMOVE EXISTIN ABANDONED EXISTING C EXISTING PEDESTRIAN	CATIO NG CO CONDU	N AS SHON NDUCTORS IT FOR RE	WN ON AND
0.4	5	EXISTING EVERGY PAD TO REMAIN.	MOUN	TED TRANS	SFORMER
	6	EXISTING STREET LIG⊢ REMAIN.	ITING	CONTROLI	ER TO
	7	EXISTING STREET LIG⊢ BE RELOCATED TO NEW			ER TO
 GE — — -	8	EXISTING EVERGY PAD TO BE RELOCATED TO N EVERGY. NEW LOCATION BY EVERGY.	IEW LI	OCATION (3Y
	9	EXISTING ELECTRICAL RELOCATED BEHIND SID			BE
12	10	INSTALL KCMO AMERICA 'C' AND TWO 'D' LIGH POLE. REFER TO DETAI	IT FI∷	XTURE ON	OCS
	11	NEW LOCATION OF EXIS LIGHT POLE. PROVIDE PEDESTRIAN LIGHT POL	NEW	POLE BASE	E FOR
	12	LOCATION OF NEW 4-CI CONTROLLER. REFER TO CONTROLLER DETAIL ON) 4-C	IRCUIT L	
7/7/	13	REFER TO NEW LOCATIO LIGHT POLE ON SHEET			IAN
	14	CIRCUIT #3 FOR NEW L 2 #2, 1 #2 GND IN 2"	,ED L ' CONI	IGHT ON (DUIT.	DCS POLE,
	15	CIRCUIT #4 FOR NEW L 2 #2, 1 #2 GND IN 2"	,ED L CON	IGHT ON (DUIT.	DCS POLE,
//	16	CIRCUIT #1 FOR RELOC LIGHT POLES, 2 #6, 1 CONDUIT.	CATED #6	PEDESTR GND IN 2	I AN
	17	CIRCUIT #2 FOR RELOC LIGHT POLES, 2 #8, 1 CONDUIT.			
	18	PROVIDE 3" SCHEDULE PROVIDED URD CABLE F LIGHTING CONTROLLER EVERGY PAD MOUNTED T COORDINATE WITH EVEF JOEY WHITE, E-MAIL J	ROM TO NI TRANSI RGY CI	4-CIRCUI EW LOCAT FORMER. ONTACT PE	T ION OF ERSON:
	19	SEE OCS SHEETS FOR S OF OCS POLES WITH AM LIGHTS.			
TREETCAR -	RIVEI	RFRONT EXTENS	ON	SCALE FOR 2	2''x34'':
NORTHBOUN		ACK		FILENAME: L111.dgn CONTRACT NC	
LIGHTING				CONTRACT NO. VOLUME: 1	
STA 147+50	TO EN	1D		DRAWING NO.: L111	SHEET NO.: 265
					1

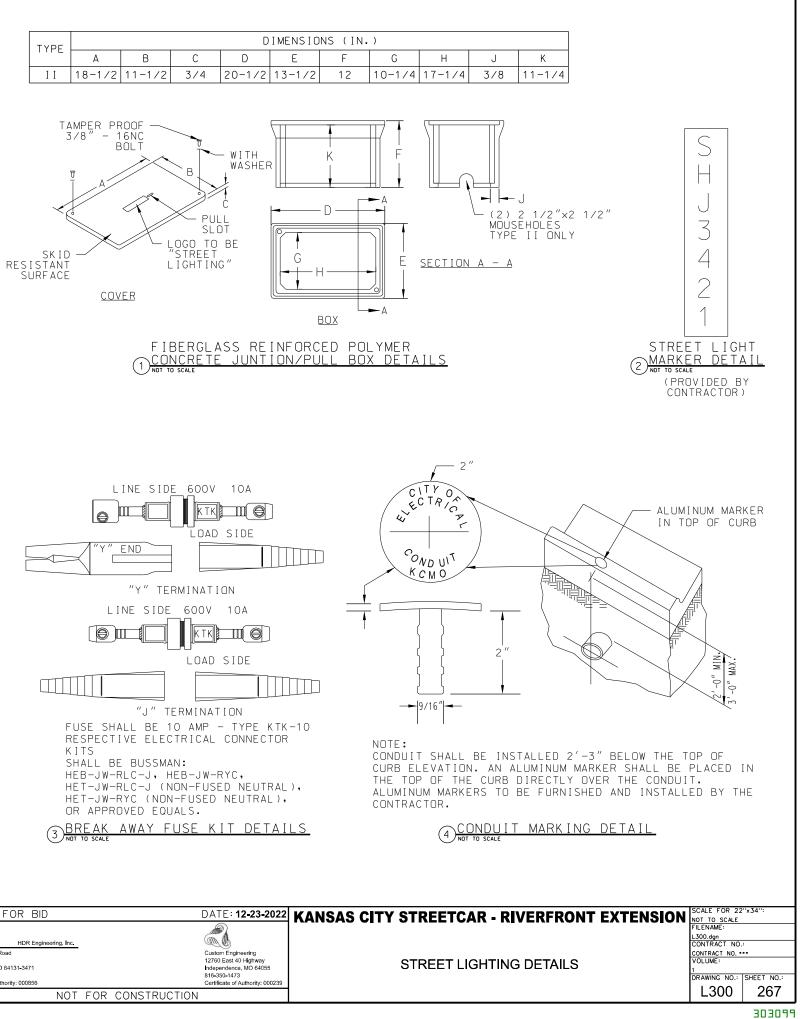


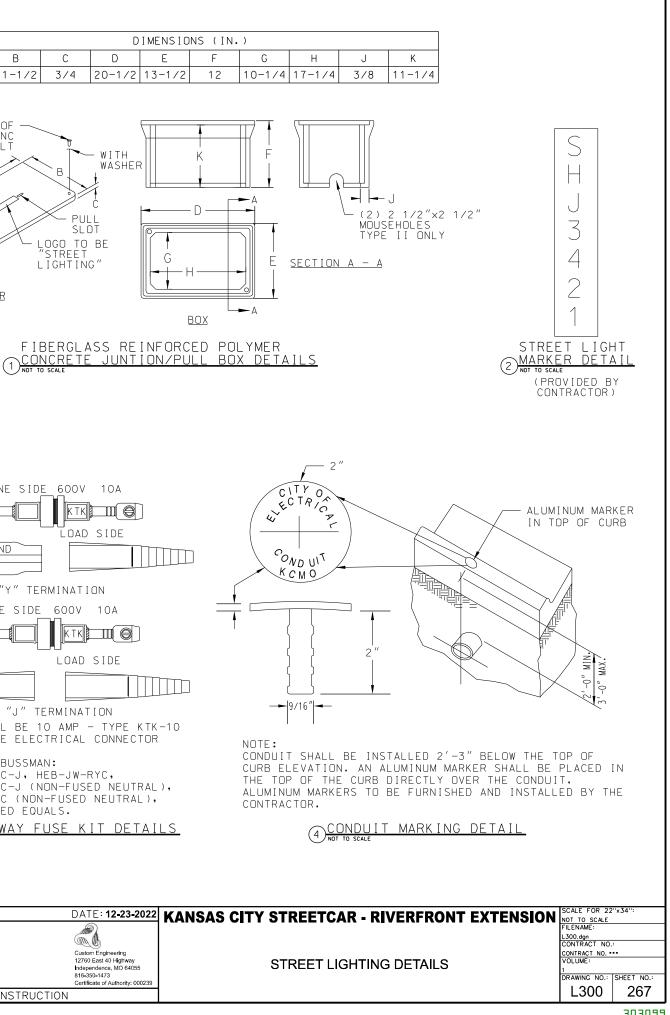


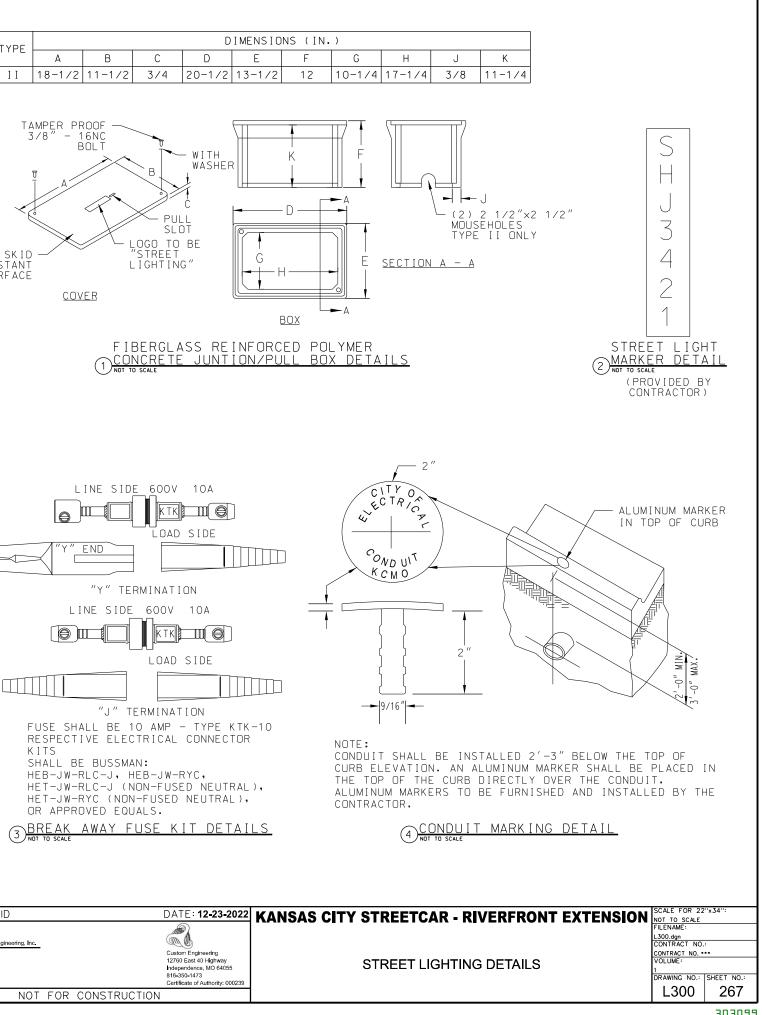
ITEM	* STREET LIGHTING SUMMARY OF QUANTITIES DESCRIPTION	UNIT	PLAN
NO.			QUANTIT
1	KCMD LED LIGHT FIXTURE AMERICAN ELECTRIC TYPE 'D' ON OCS POLE (NOC)	EA	18
2	KCMO LED LIGHT FIXTURE AMERICAN ELECTRIC TYPE 'C' ON OCS POLE (NOC)	EA	4
3	KCMO LED LIGHT FIXTURE SIGNIFY LUMEC TYPE 'C' ON OCS POLE (NOC)	EA	3
4 5	KCMO LED LIGHT FIXTURE SIGNIFY LUMEC TYPE 'D' ON 35' STREET LIGHT POLE 8' ARM FOR KCMO LED LIGHT FIXTURE SIGIFY LUMEC TYPE 'C' ON OCS POLE	E A E A	1
6	8' ARM FOR KCMO LED LIGHT FIXTURE SIGNIFY LUMEC TYPE 'D' ON STREET LIGHT POLE	EA	1
7	35' STREET LIGHT POLE TYPE 'D'	EA	1
8	1 #10 RHW/USE INTERNAL POLE WIRE	LF	2300
9	3" HDPE CONDUIT FOR EVERGY FEED		150
10	1#6 AWG BARE COPPER WIRE	LF	150
11	2#2 RHH/RHW/USE, 1 #2 GND, FOR LIGHTING CIRCUIT #3, COMBINED OCS POLE AND KCMO LED LIGHT FIXTURE TYPE D ON EXISTING LTC, SBC9001.	LF	1500
12	2#4 RHH/RHW/USE, 1 #4 GND. FOR LIGHTING CIRCUIT #4, COMBINED OCS POLE AND KCMO LED LIGHT FIXTURES TYPE D AND TYPE C ON EXISTING LTC, SBC9001.	LF	900
13	2#6 RHH/RHW/USE, 1 #6 GND. FOR LIGHTING CIRCUIT #1, RELOCATED PEDESTRIAN LIGHT POLES ON NEW STREET LIGHTING CONTROLLER LTC-1	LF	1700
14	2#8 RHH/RHW/USE, 1 #8 GND. FOR LIGHTING CIRCUIT #2, RELOCATED PEDESTRIAN LIGHT POLES ON NEW STREET LIGHTING CONTROLLER LTC-1	LF	500
15	2#6 RHH/RHW/USE, 1 #6 GND, FOR LIGHTING CIRCUIT FOR KCMO LED LIGHT FIXTURE TYPE 'C' ON DCS POLES ON 2ND STREET	LF	250
16	2#8 RHH/RHW/USE, 1 #8 GND. FOR STREET LIGHTS ON TRAFFIC SIGNAL POLES	LF	350
17	2" PVC CONDUIT FOR LIGHTING CIRCUITS #3 AND #4 ON EXISTING LTC, SBC9001 AND LIGHTING CIRCUITS #1 AND #2 ON NEW STREET LIGHTING CONTROLLER LTC-1	LF	4850
18	FUSE KITS	EA	26
19	NON-FUSED FUSE KITS	EA	52
20	CABLE RETAINERS	EA	26
21	POLE BASE FOR RELOCATED PEDESTRIAN LIGHT POLE	EA	16
22 23	ID TAG FOR STREET LIGHT AND NEW STREET LIGHTING CONTROLLER NEW 4-CIRCUIT STREET LIGHTING CONTROLLER LTC-1 FOR RELOCATED PEDESTRIAN LIGHT POLES	E A E A	26 1
24	CONCRETE FOUNDATIONS FOR NEW STREET LIGHTING CONTROLLER LTC-1	EA	1
25	RELOCATED EXISTING LUMINAIRE AND EXISTING POLE FOR STREET LIGHT POLE	EA	1
26	NEW POLE BASE FOR RELOCATED EXISTING AND NEW STREET STREET LIGHT POLES	ΕA	2
27	RELOCATED EXISTING PEDESTRIAN LIGHT POLE	ΕA	16
28	NEW POLE BASE FOR RELOCATED PEDESTRIAN LIGHT POLES	ΕA	16
29	RELOCATED EXISTING LED STREET LIGHT ON OCS POLE	ΕA	2
30	NEW OCS POLE ATTACHMENT FOR NEW LED LUMINAIRE ON OCS POLES	ΕA	25
31	TRENCH AND BACKFILL	LF	4850
32	REMOVAL OF EXISTING CONDUCTORS FOR RELOCATED PEDESTRIAN LIGHT POLES	LF	800
33	NEW PULL BOXES	ΕA	1
34	POWER HOOKUP FOR EVERGY POWER SOURCE	ΕA	1

* NOTE: QUANTITIES ARE FOR BID COMPARISION PURPOSE ONLY. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING LIGHTING SYSTEM.

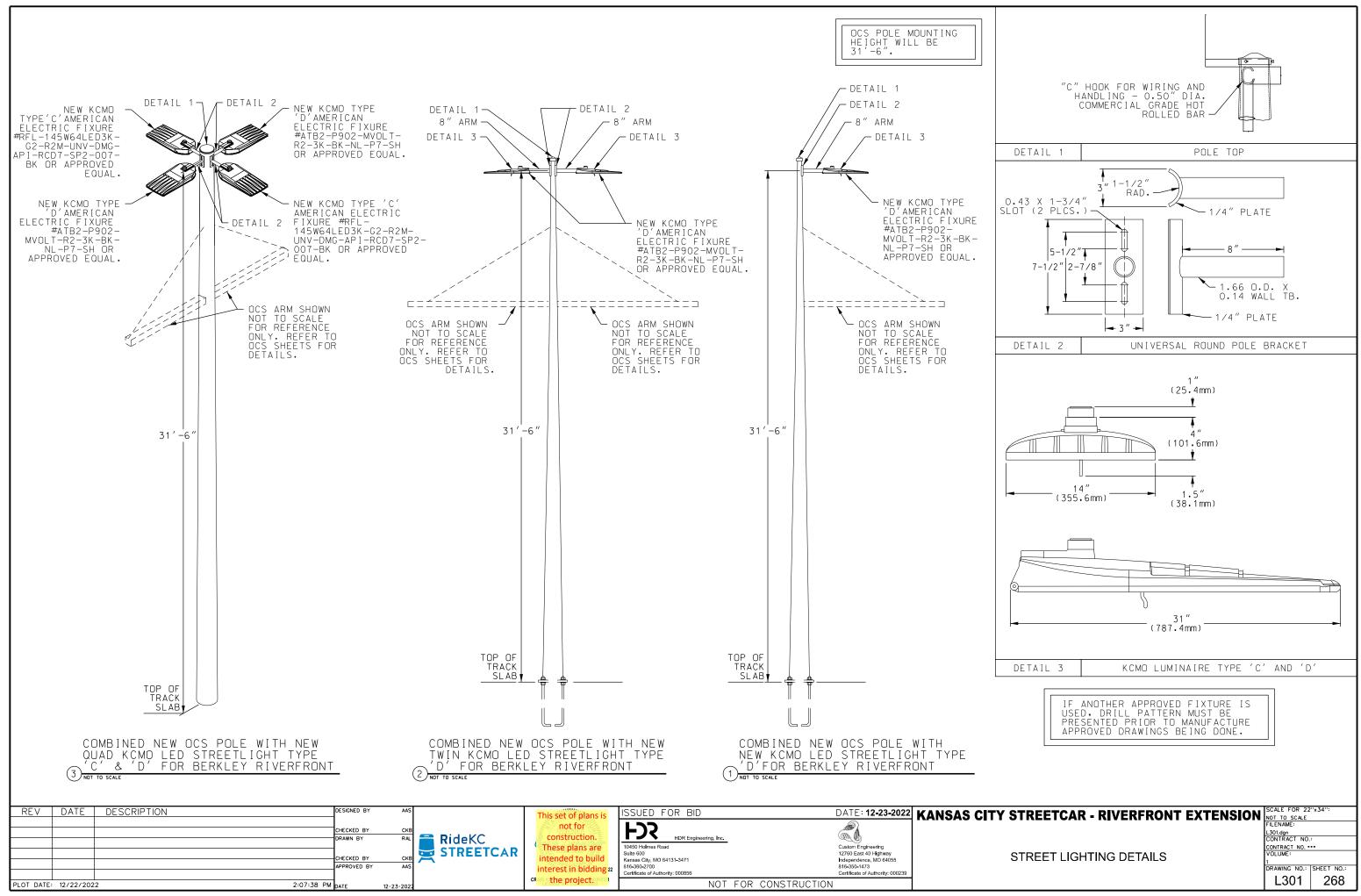
TYPE				D	IMENSIO	NS (IN.)
	А	В	С	D	E	F	G
ΙI	18-1/2	11-1/2	3/4	20-1/2	13-1/2	12	10-1/4

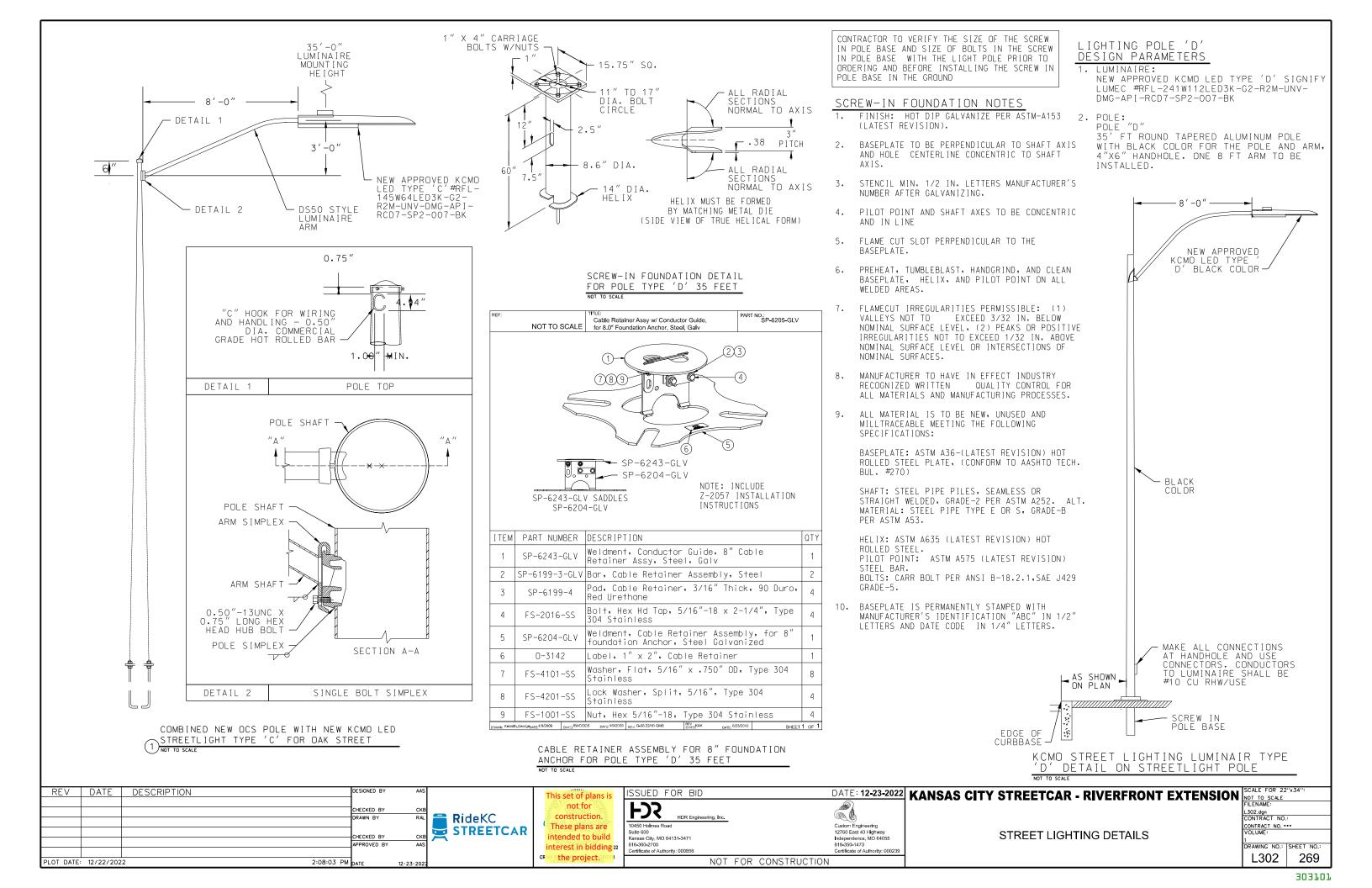


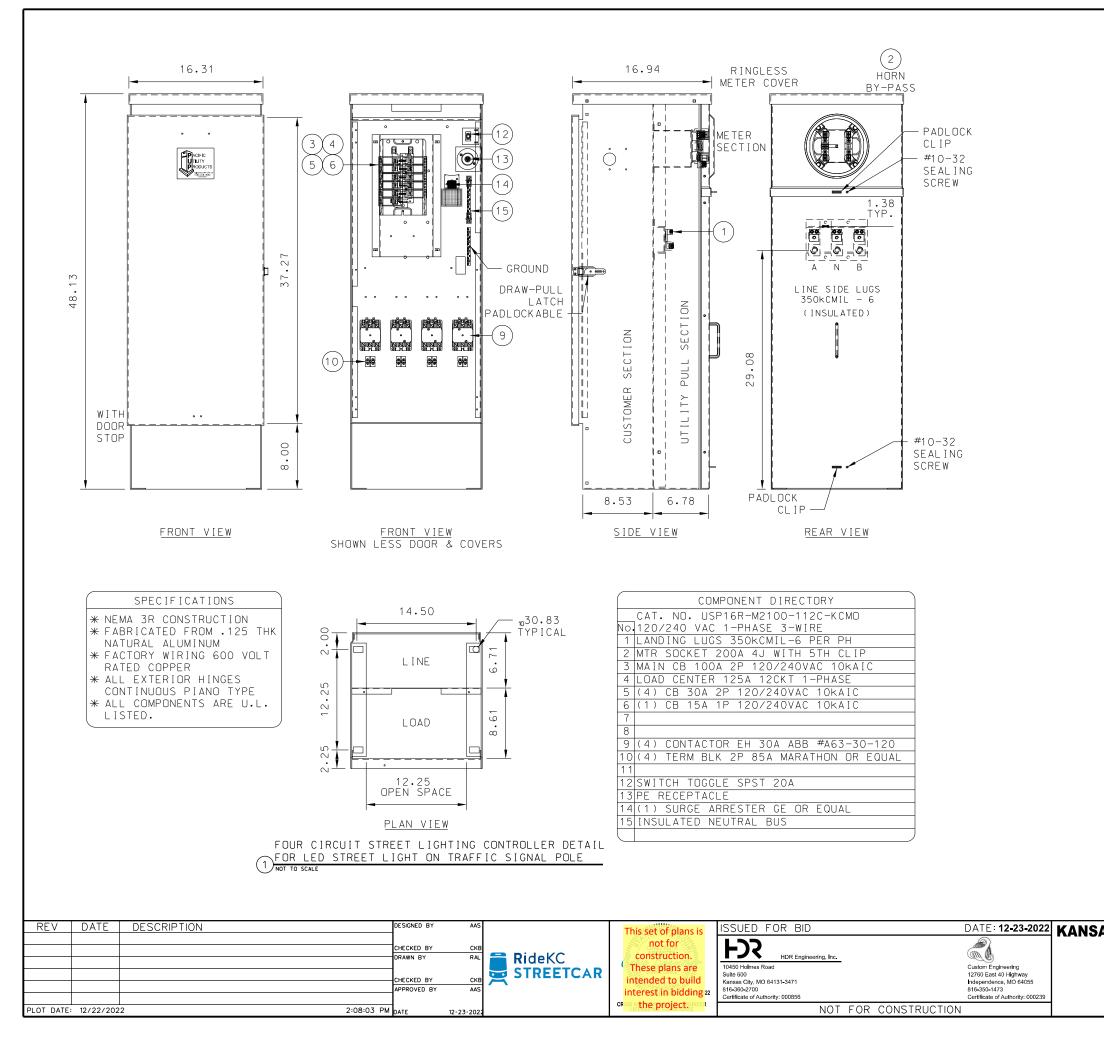




REV	DATE	DESCRIPTION	DESIGNED BY	AAS		This set of plans is	ISSUED FOR BID	DATE: 12-23-2022	KANSAS CITY STR
						not for			
			CHECKED BY	CKB RAI	🚔 RideKC	construction.	HDR Engineering, Inc.	(In the	
						34410 JAREWSSEP	10450 Holmes Road	Custom Engineering	
			CHECKED BY	СКВ	STREETCAR	intended to build	Suite 600 Kansas City, MO 64131-3471	12760 East 40 Highway Independence, MO 64055	STF
			APPROVED BY	AAS			816-360-2700	816-350-1473	
						CRAIGE the project.	Certificate of Authority: 000856	Certificate of Authority: 000239	4
PLOT DATE:	: 12/22/202	22	2:07:37 PM DATE	12-23-2022	2	LICENSEND E-2JUCISU02	NOT FOR CO	NSTRUCTION	



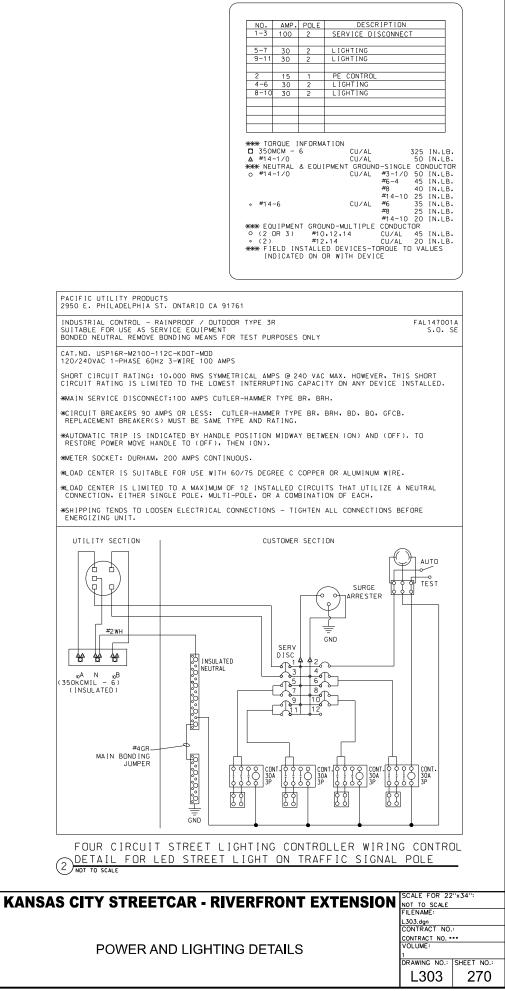




UTILITY SECTION

冶 J #2 WH * * * 10^A N 10^B 350kcmil - 6) (INSULATED)

MAIN BONDING



303705

DRAWING #	F I X TURE TYPE	WATTS	STREET LIGHT #	POLE TYPE	NOTES:	DRAWING #	F I X TURE TYPE	WATTS	STREET LIGHT #	POL
L101	LED-COBRA HEAD	248W	SBC8510	WOOD EVERGY	EXISTING LED COBRA HEAD STREETLIGHT ON WOOD EVERGY POLE TO REMAIN.	L103	HPS-COBRA HEAD	150W	SBC1111	V
L101	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.	L103	HPS-SHOE BOX	400W	SBC2508	ALU
L101	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.	L103	HPS-COBRA HEAD	150W	SBC1110	w N
L101	LED-COBRA HEAD	248W	SBC8509	WOOD EVERGY	EXISTING LED COBRA HEAD STREETLIGHT ON WOOD EVERGY POLE TO REMAIN.	L103	HPS-COBRA HEAD	150W	SBC1109	w
L101	LED-COBRA HEAD	248W	SBC8508	TRAFFIC SIGNAL POLE	EXISTING LED COBRA HEAD STREETLIGHT ON TRAFFIC SIGNAL POLE TO REMAIN.	L103	HPS-SHOE BOX	400W	SBC2507	ALU
L101	LED-COBRA HEAD	248W	SBC8507	TRAFFIC SIGNAL POLE	EXISTING LED COBRA HEAD STREETLIGHT ON TRAFFIC SIGNAL POLE TO REMAIN.	L103	HPS-SHOE BOX	400W	SBC2506	ALL
L101	LED-COBRA HEAD	248W	SBC8506	TRAFFIC SIGNAL POLE	NEW LED COBRA HEAD STREETLIGHT ON NEW COMBINED OCS/TRAFFIC SIGNAL POLE.	L104	HPS-SHOE BOX	400W	SBC2505	ALU
L101	LED-COBRA HEAD	248W	SBC8505	TRAFFIC SIGNAL POLE	NEW LED COBRA HEAD STREETLIGHT ON NEW COMBINED OCS/TRAFFIC SIGNAL POLE.	L104	HPS-SHOE BOX	400W	SBC2504	ALU
L101	LED-COBRA HEAD	248W	SBC8514	WOOD EVERGY	EXISTING LED COBRA HEAD STREETLIGHT ON WOOD EVERGY POLE TO REMAIN.	L104	HPS-SHOE BOX	400W	SBC2503	ALL
L101	HPS-SHOE BOX	400W	SBC5500	OCS POLE	EXISTING SHOE BOX STREET LIGHT POLE TO BE RELOCATED TO NEW LOCATION.	L105	HPS-SHOE BOX	400W	SBC2502	ALL
L101	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.	L105	HPS-SHOE BOX	400W	SBC2501	ALU
L101	LED-COBRA HEAD	400W	SBC8504	OCS POLE	EXISTING LED COBRA HEAD ON OCS POLE TO BE RELOCATED.	L105	HPS-SHOE BOX	400W	SBC2500	ALL
L101	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.	L106	HPS-SHOE BOX	400W	SBC2113	ALL
L101	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.	L106	HPS-SHOE BOX	400W	SBC2112	ALL
L101	LED-COBRA HEAD	400W	SBC8502	OCS POLE	EXISTING LED COBRA HEAD STREETLIGHT ON EXISTING OCS POLE TO REMAIN.	L107	HPS-SHOE BOX	400W	SBC2111	ALL
L101	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE REMOVED.	L108	LED-SHOE BOX	254W	N/A	ocs
L101	LED COBRA HEAD	248W	SBCXXXXX	ALUMINUM	NEW KCMO SGINIFY TYPE D LED LIGHT FIXTURE ON 35' POLE.	L108	LED-SHOE BOX	254W	N/A	ocs
L102	HPS-COBRA HEAD	400W	1371	OCS POLE	EXISTING COBRA HEAD STREETLIGHT ON EXISTING OCS POLE TO REMAIN.	L108	LED-SHOE BOX	267W	SBC2110	ALL
L102	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.	L108	LED-SHOE BOX	508W	N/A	ocs
L102	HPS-COBRA HEAD	400W	1410	OCS POLE	EXISTING COBRA HEAD STREETLIGHT ON EXISTING OCS POLE TO BE RELOCATED.	L108	PEDESTRIAN LIGHT	150W	N/A	ALL
L102	HPS-COBRA HEAD	150W	NO NUMBER	ALUMINUM	EXISTING COBRA HEAD STREETLIGHT ON METAL POLE TO REMAIN.	L108	PEDESTRIAN LIGHT	150W	N/A	ALL
L102	LED-COBRA HEAD	248W	SBCXXXX	TRAFFIC SIGNAL POLE	NEW KCMO SIGNIFY TYPE D LIGHT FIXTURE ON COMBINED OCS/ TRAFFIC SIGNAL POLE.	L108	PEDESTRIAN LIGHT	150W	N/A	ALL
L102	LED-COBRA HEAD	248W	SBCXXXX	TRAFFIC SIGNAL POLE	NEW KCMO SIGNIFY TYPE D LIGHT FIXTURE ON TRAFFIC SIGNAL POLE.	L108	PEDESTRIAN LIGHT	150W	N/A	ALL
L102	LED-COBRA HEAD	248W	SBCXXXX	TRAFFIC SIGNAL POLE	NEW KCMO SIGNIFY TYPE D LIGHT FIXTURE ON TRAFFIC SIGNAL POLE.	L108	PEDESTRIAN LIGHT	150W	N/A	ALL
L102	HPS-COBRA HEAD	150W	SBC1115	WOOD	EXISTING COBRA HEAD STREETLIGHT ON EVERGY WOOD POLE TO REMAIN.	L108	LED-SHOE BOX	267W	NO NUMBER	ALU
L102	HPS-COBRA HEAD	150W	SBC1114	WOOD	EXISTING COBRA HEAD STREETLIGHT ON WOOD POLE TO REMAIN.		LED-SHOE	05.44	65 0 V V V	
L102	HPS-COBRA HEAD	150W	SBC1113	WOOD	EXISTING COBRA HEAD STREETLIGHT ON WOOD POLE TO REMAIN.	L108	BOX	254W	SBCXXXX	ALU
L102	HPS-SHOE BOX	400W	SBC2509	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	L		1	1	1
L102	HPS-COBRA HEAD	150W	SBC1112	WOOD	EXISTING COBRA HEAD STREETLIGHT ON WOOD POLE TO REMAIN.					

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REV	DATE	DESCRIPTION	DESIGNED	BY AAS	5	This set of plans is	ISSUED FOR BID	DATE: 12-23-2022	KANSAS CITY STR
			CHECKED			not for			
			DRAWN B		🖥 🚞 RideKC	construction.	HDR Engineering, Inc.	Con B	
						These plans are	10450 Holmes Road Suite 600	Custom Engineering 12760 East 40 Highway	
			CHECKED			intended to build	Kansas City, MO 64131-3471	Independence, MO 64055	STREE
			APPROVE	D BY AAS	5	interest in bidding 22	816-360-2700 Certificate of Authority: 000856	816-350-1473 Certificate of Authority: 000239	
PLOT DATE	: 12/22/202	22	2:08:38 PM DATE	12-23-202	22	CRAIG KITHE Project. GIVER	NOT FOR CO	NSTRUCTION	
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	NOTES:	
	EXISTING COBRA HEAD STREETLIGHT ON WOOD POLE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING COBRA HEAD STREETLIGHT ON WOOD POLE TO REMAIN.	
	EXISTING COBRA HEAD STREETLIGHT ON WOOD POLE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
_	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE ON THE BRIDGE TO REMAIN.	
	NEW KCMD AMERICAN ELECTRIC TYPE D LIGHT FIXTURE ON NEW OCS POLE.	
	NEW KCMD AMERICAN ELECTRIC TYPE D LIGHT FIXTURE ON NEW OCS POLE.	
	EXISTING SHOE BOX LED STREETLIGHT ON METAL POLE TO BE REMOVED.	
	NEW TWIN KCMO AMERICAN LED LIGHT FIXTURES TYPE D ON NEW OCS POLE.	
	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.	
	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.	
	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED TO NEW LOCATION.	
	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED TO NEW LOCATION.	
	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED TO NEW LOCATION.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.	
	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN. REPLACE	
	EXISTING CREE LIGHT FIXTURE WITH KCMO AMERICAN ELECTRIC LIGHT FIXTURE TYPE D.	
)	TREETCAR - RIVERFRONT EXTEN	

REET LIGHTING SCHEDULES

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SHEET	NO.:
2	71
	SHEET

FLUI DATE:	12/22/2022	۷			2:08	O-JO PM DATE	12-23-2022		LICENSE NO. 1-2800130002	NUT FUR C	UNJIKU					
PLOT DATE:	: 12/22/2022	2			2:0	CHECKE DRAWN CHECKE APPROV 8:38 PM DATE	BY RAL D BY CKB ED BY AAS	RideKC STREETCAR	not for construction. These plans are intended to build interest in bidding 2 of the project.	HDR Engineering, Inc. 10450 Holmes Road Suite 600 Kanasa City, MO 64131-3471 816-360-2700 Certificate of Authority: 000856 NOT FOR C	ONSTRU	Custom Engine 12760 East 40 I Independence, 816-350-1473 Certificate of Au	Highway MO 64055		STR	
REV	DATE	DESCRIPTION				DESIGNE	D BY AAS		This set of plans is	ISSUED FOR BID		DATE: 12	2-23-202		AS CITY ST	TR
			L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIA POLE TO BE RELOCAT								
			L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIA POLE TO BE RELOCAT	ED.							
			L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING ON METAL POLE.	PEDESTRIAN LIGHT							
			L110	PEDESTRIAN LIGHT	150W	NZA	ALUMINUM	EXISTING PEDESTRIA POLE TO REMAIN.	N LIGHT ON METAL							
			L110	MH-SHOE BOX	267W	PORT013	ALUMINUM	EXISTING SHOE BOX METAL POLE TO REMA	STREETLIGHT ON IN.							
			L110	MH-SHOE BOX	267W	PORT014	ALUMINUM	EXISTING SHOE BOX METAL POLE TO REMA					I		·	
			L110	LED-SHOE BOX	267W	NZA	OCS POLE	NEW TWIN LED SHOE ON NEW OCS POLE.	BOX LIGHT FIXTURES		L112	COBRA HEAD	400W	N/A	METAL POLE	E. Ti
			L110	LED-SHOE BOX	508W	NZA	OCS POLE	NEW TWIN KCMO AMER LIGHT FIXTURES TYP		E.	L112	LED COBRA HEAD	137W	SBCXXXX	OCS POLE	NI O
			L110	PEDESTRIAN LIGHT	150W	NZA	ALUMINUM	EXISTING PEDESTRIA POLE TO REMAIN.	N LIGHT ON METAL		L112	LED COBRA HEAD	137W	SBCXXXX	OCS POLE	NI O
			L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING ON METAL POLE.	PEDESTRIAN LIGHT		L112	LED COBRA HEAD	137W	SBCXXXX	OCS POLE	N O
			L110	MH-SHOE BOX	267W	PORT015	ALUMINUM	EXISTING SHOE BOX METAL POLE TO REMA			L111	LED-SHOE BOX	774W	N/A	OCS POLE	N L
			L110	LIGHT	150W	N/A	ALUMINUM	ON METAL POLE.			L111	LED-SHOE BOX	774W	N/A	OCS POLE	L

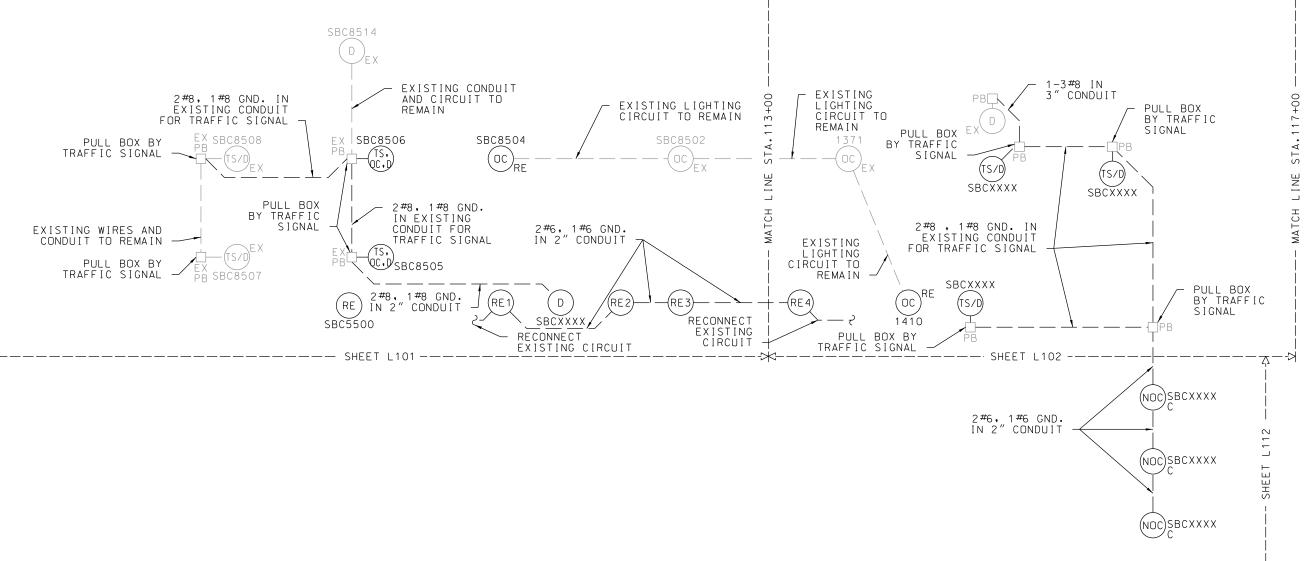
RAWING #	F I X TURE TYPE	WATTS	STREET LIGHT #	POLE TYPE	NOTES:
L109	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
L109	LED-SHOE BOX	508W	NZA	OCS POLE	NEW TWIN KCMO AMERICAN ELECTRIC LED LIGHT FIXTURES TYPE D ON NEW OCS POLE.
L109	LED-SHOE BOX	267W	NO NUMBER	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
L109	PEDESTRIAN LIGHT	150W	NZA	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
L109	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
L109	LED-SHOE BOX	267W	NO NUMBER	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
L109	PEDESTRIAN LIGHT	150W	NZA	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
L109	LED- SHOE BOX	508W	NEW	OCS POLE	NEW TWIN KCMO AMERICAN ELECTRIC LED LIGHT FIXTURES TYPE D ON NEW OCS POLE.
L109	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
L109	LED-SHOE BOX	267W	NO NUMBER	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
L109	PEDESTRIAN LIGHT	150W	NZA	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
L109	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
L109	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.
L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
L110	LED-SHOE BOX	508W	NZA	OCS POLE	NEW TWIN KCMO AMERICAN ELECTRIC LED LIGHT FIXTURES TYPE D ON NEW OCS POLE.
L110	MH-SHOE BOX	267W	PORTO16	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
L110	MH-SHOE BOX	267W	PORT015	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
L110	LED-SHOE BOX	508W	N/A	OCS POLE	NEW TWIN KCMO AMERICAN ELECTRIC LED LIGHT FIXTURES TYPE D ON NEW OCS POLE.
L110	LED-SHOE BOX	267W	N/A	OCS POLE	NEW TWIN LED SHOE BOX LIGHT FIXTURES ON NEW OCS POLE.
L110	MH-SHOE BOX	267W	PORT014	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
L110	MH-SHOE BOX	267W	PORT013	ALUMINUM	EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
L110	PEDESTRIAN LIGHT	150W	N/A	ALUMINUM	RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
	PEDESTRIAN				EXISTING PEDESTRIAN LIGHT ON METAL

NP

E LVTUDE			
F I X TURE TYPE	WATTS	STREET LIGHT #	POLE TYPE
MH-SHOE BOX	400W	PORT012	ALUMINUM
LED-SHOE BOX	508W	NZA	OCS POLE
PEDESTRIAN LIGHT	150W	N/A	ALUMINUM
MH-SHOE BOX	400W	PORT011	ALUMINUM
PEDESTRIAN LIGHT	150W	NZA	ALUMINUM
PEDESTRIAN LIGHT	150W	NZA	ALUMINUM
PEDESTRIAN LIGHT	150W	NZA	ALUMINUM
MH-SHOE BOX	400W	PORT010	ALUMINUM
PEDESTRIAN LIGHT	150W	N/A	ALUMINUM
PEDESTRIAN LIGHT	150W	N/A	ALUMINUM
PEDESTRIAN LIGHT	150W	N/A	ALUMINUM
PEDESTRIAN LIGHT	150W	N/A	ALUMINUM
MH-SHOE BOX	400W	PORT009	ALUMINUM
MH-SHOE BOX	400W	PORT008	ALUMINUM
MH-SHOE BOX	400W	PORTO07	ALUMINUM
PEDESTRIAN LIGHT	150W	N/A	ALUMINUM
PEDESTRIAN LIGHT	150W	N/A	ALUMINUM
LED-SHOE BOX	774W	N/A	OCS POLE
LED-SHOE BOX	774W	N/A	OCS POLE
LED COBRA HEAD	137W	SBCXXXX	OCS POLE
LED COBRA HEAD	137W	SBCXXXX	OCS POLE
LED COBRA HEAD	137W	SBCXXXX	OCS POLE
COBRA HEAD	400W	N/A	METAL POLE
	TYPE MH-SHOE BOX LED-SHOE BOX PEDESTRIAN LIGHT MH-SHOE BOX PEDESTRIAN LIGHT PEDESTRIAN LIGHT MH-SHOE BOX PEDESTRIAN LIGHT PEDESTRIAN LIGHT PEDESTRIAN LIGHT MH-SHOE BOX MH-SHOE BOX MH-SHOE BOX MH-SHOE BOX LED-SHOE BOX LED-SHOE BOX LED-SHOE BOX LED-SHOE BOX	TYPEWATTSMH-SHOE BOX400WLED-SHOE BOX508WPEDESTRIAN LIGHT150WMH-SHOE BOX400WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WMH-SHOE BOX LIGHT400WMH-SHOE BOX LIGHT400WMH-SHOE BOX LIGHT400WMH-SHOE BOX LIGHT150WPEDESTRIAN LIGHT150WPEDESTRIAN LIGHT150WLED-SHOE BOX LIGHT774WLED-SHOE BOX LED COBRA HEAD137WLED COBRA HEAD LIGHT137W	TYPEWATTSLIGHT #MH-SHOE BOX400WPORT012LED-SHOE BOX508WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/AMH-SHOE BOX LIGHT400WPORT009MH-SHOE BOX LIGHT400WPORT007PEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/APEDESTRIAN LIGHT150WN/ALED-SHOE BOX LIGHT774WN/ALED COBRA HEAD LED COBRA HEAD137WSBCXXXXLED COBRA HEAD137WSBCXXXX

NOTES:
EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
NEW TWIN KCMO AMERICAN ELECTRIC LED LIGHT FIXTURES TYPE D ON NEW OCS POLE.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
RELOCATED EXISTING PEDESTRIAN LIGHT ON METAL POLE.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO REMAIN.
EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.
EXISTING TWIN SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
EXISTING SHOE BOX STREETLIGHT ON METAL POLE TO REMAIN.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.
EXISTING PEDESTRIAN LIGHT ON METAL POLE TO BE RELOCATED.
NEW QUAD KCMO AMERICAN ELECTRIC TYPE D AND C LIGHT FIXTURES ON NEW OCS POLE.
NEW QUAD KCMO AMERICAN ELECTRIC TYPE D AND C LIGHT FIXTURES ON NEW OCS POLE.
NEW KCMO SIGNIFY TYPE C LIGHT FIXTURE ON NEW OCS POLE.
NEW KCMO SIGNIFY TYPE C LIGHT FIXTURE ON NEW OCS POLE.
NEW KCMO SIGNIFY TYPE C LIGHT FIXTURE ON NEW OCS POLE.
EXISTING COBRA HEAD LIGHT FIXTURE ON METAL POLE TO BE REMOVED.

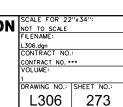
	SCALE FOR 22	"'x34":	
TREETCAR - RIVERFRONT EXTENSION			
	FILENAME		
	L305.dgn		
	CONTRACT NO.:		
	CONTRACT NO. •••		
REET LIGHTING SCHEDULES	VOLUME:		
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	DRAWING NO.:	SHEET NO.:	
	L305	272	



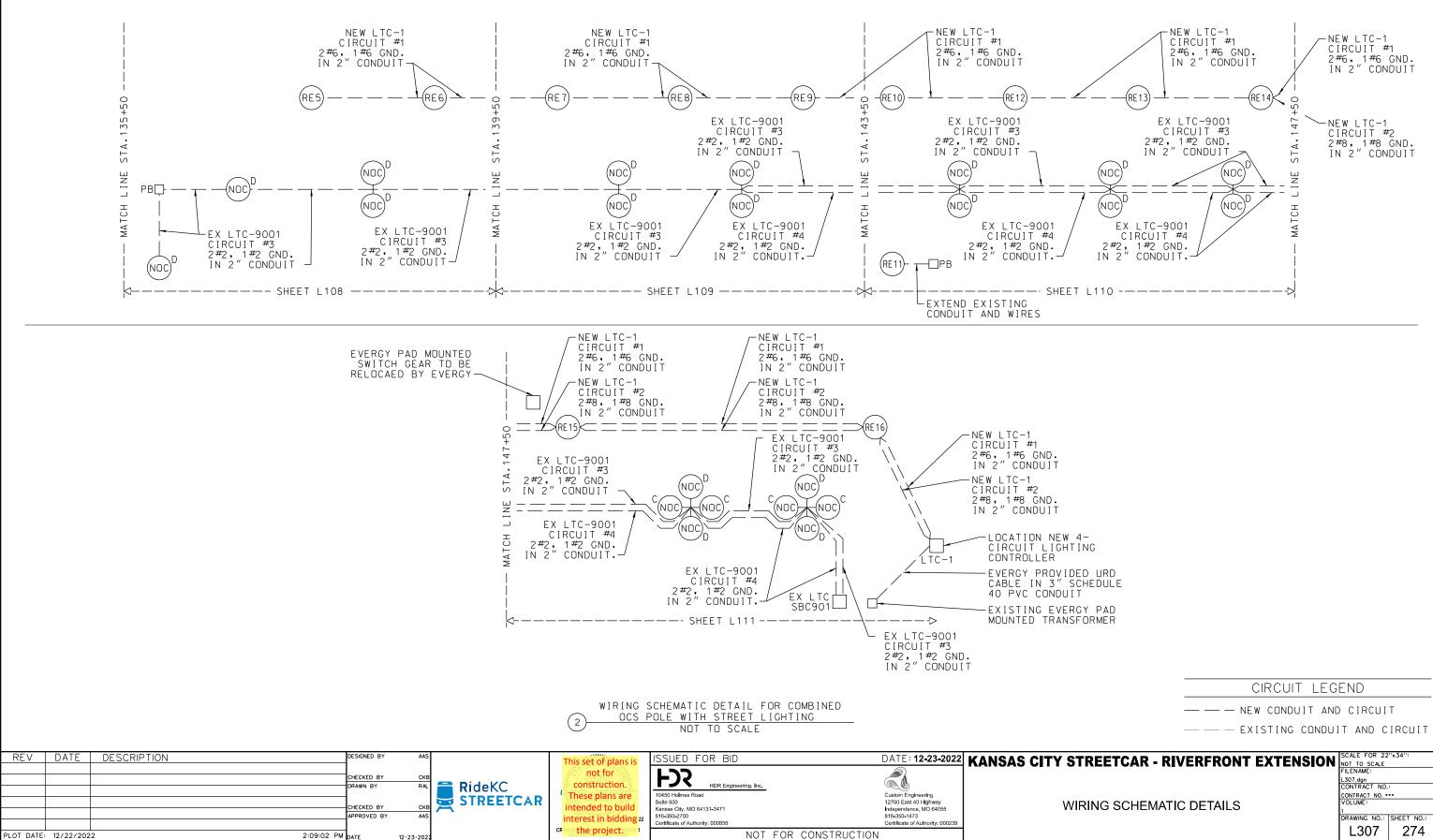
CIRCUIT LEGEND WIRING SCHEMATIC DETAIL FOR COMBINED OCS POLE — — NEW CONDUIT AND CIRCUIT NOT TO SCALE EXISTING CONDUIT AND CIRCUIT DATE: 12-23-2022 KANSAS CITY STREETCAR - RIVERFRONT EXTENSION REV ESIGNED BY DATE DESCRIPTION SSUED FOR BID This set of plans i FX not for HECKED BY **RideKC** construction. RAWN BY HDR Engine 10450 Holmes Road Suite 600 Kansas City, MO 64131-3471 816-360-2700 Certificate of Authority: 000856 Custom Engineering 12760 East 40 Highway Independence, MO 64055 816-350-1473 These plans are STREETCAR WI HECKED BY intended to build PROVED BY interest in bidding 22 Certificate of Authority: 00023 the project. PLOT DATE: 12/22/2022 2:09:02 PM NOT FOR CONSTRUCTION

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	CIRCUIT LEGEND
TREETCAR - RIV	ERFRONT EXTENSION
	L307.dgn CONTRACT NO.: CONTRACT NO.***
RING SCHEMATIC	CDETAILS
	L307 274