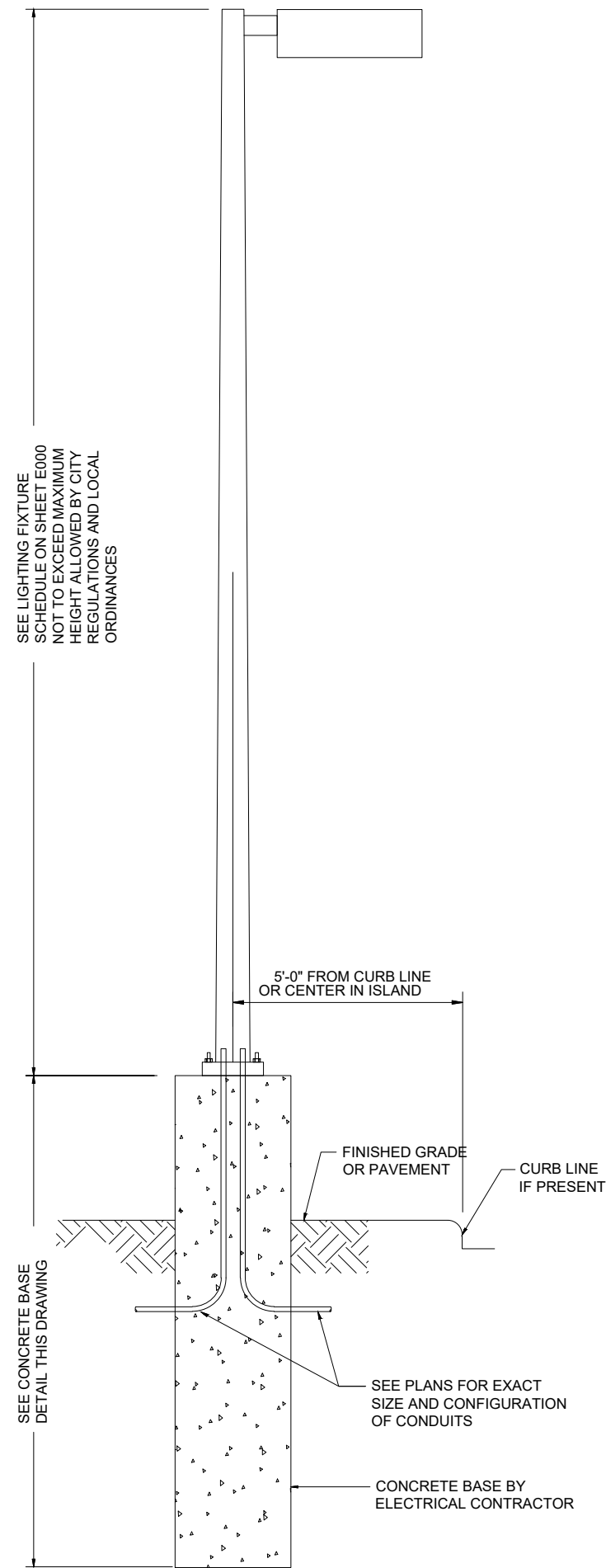
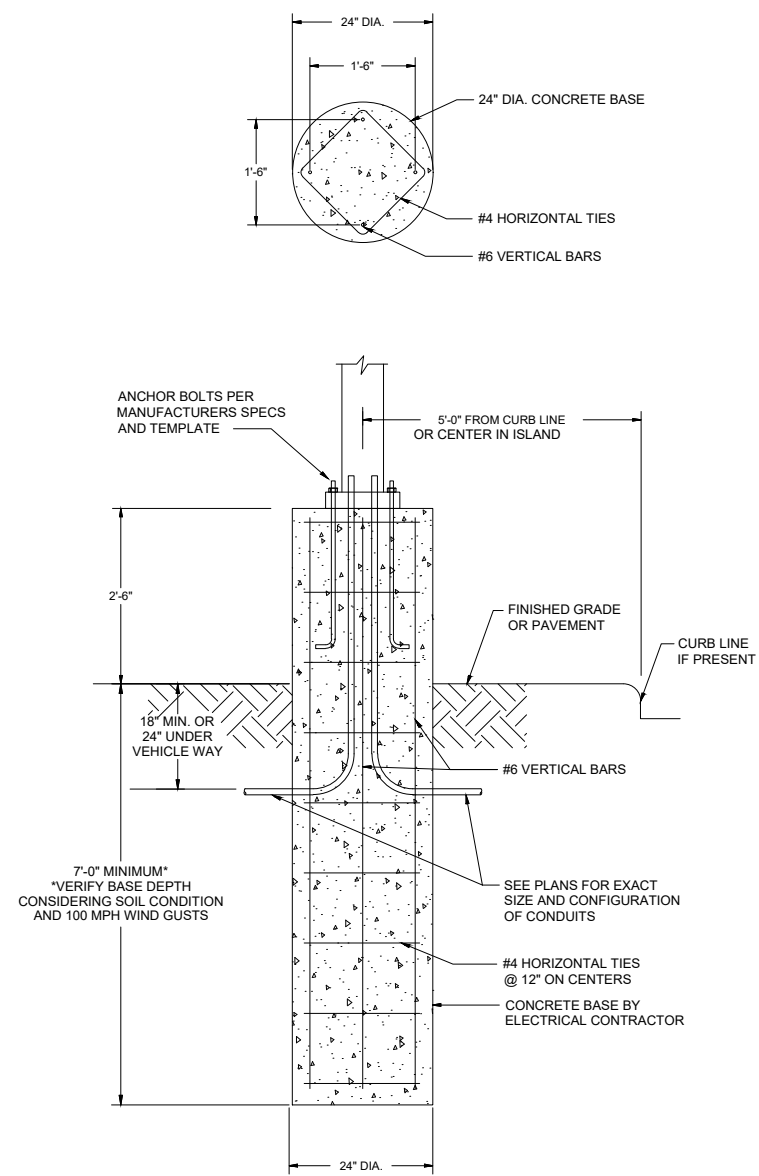
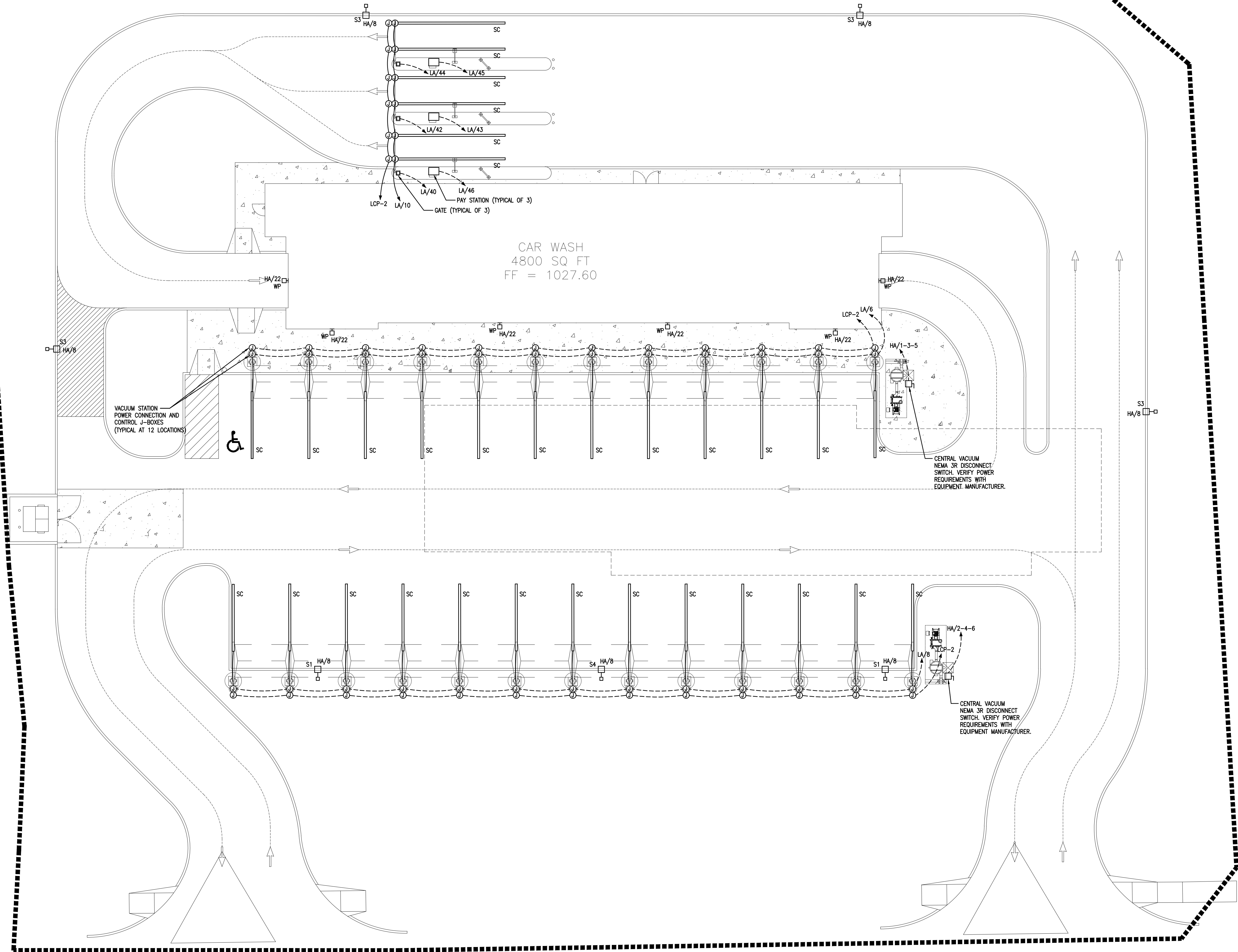




SITE LIGHTING POLE DETAIL
NOT TO SCALE



CONCRETE BASE DETAIL
NOT TO SCALE



1 ELECTRICAL PLAN - SITE
1" = 12'-0"

Revisions

KREWSON
AND ASSOCIATES
90 Crescent Avenue
Twin Oaks, Missouri 63088
phone: (314) 420-9618

Seal

Project Code

CCW-2201

Project Title

New
Car Wash
for
COWBOY
EXPRESS
CARWASH

210 MO-150
LEE SUMMIT, MISSOURI
64082

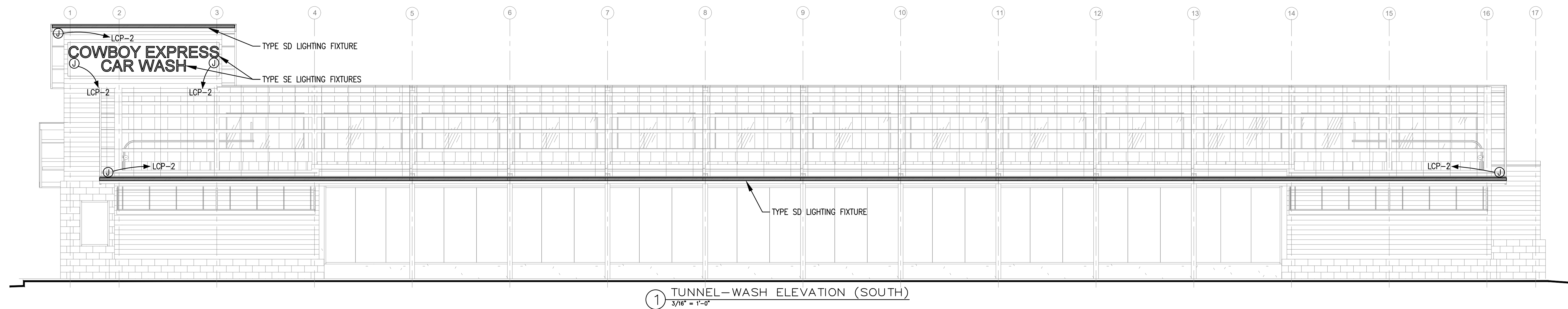
Drawing Title

ELECTRICAL
PLAN - SITE

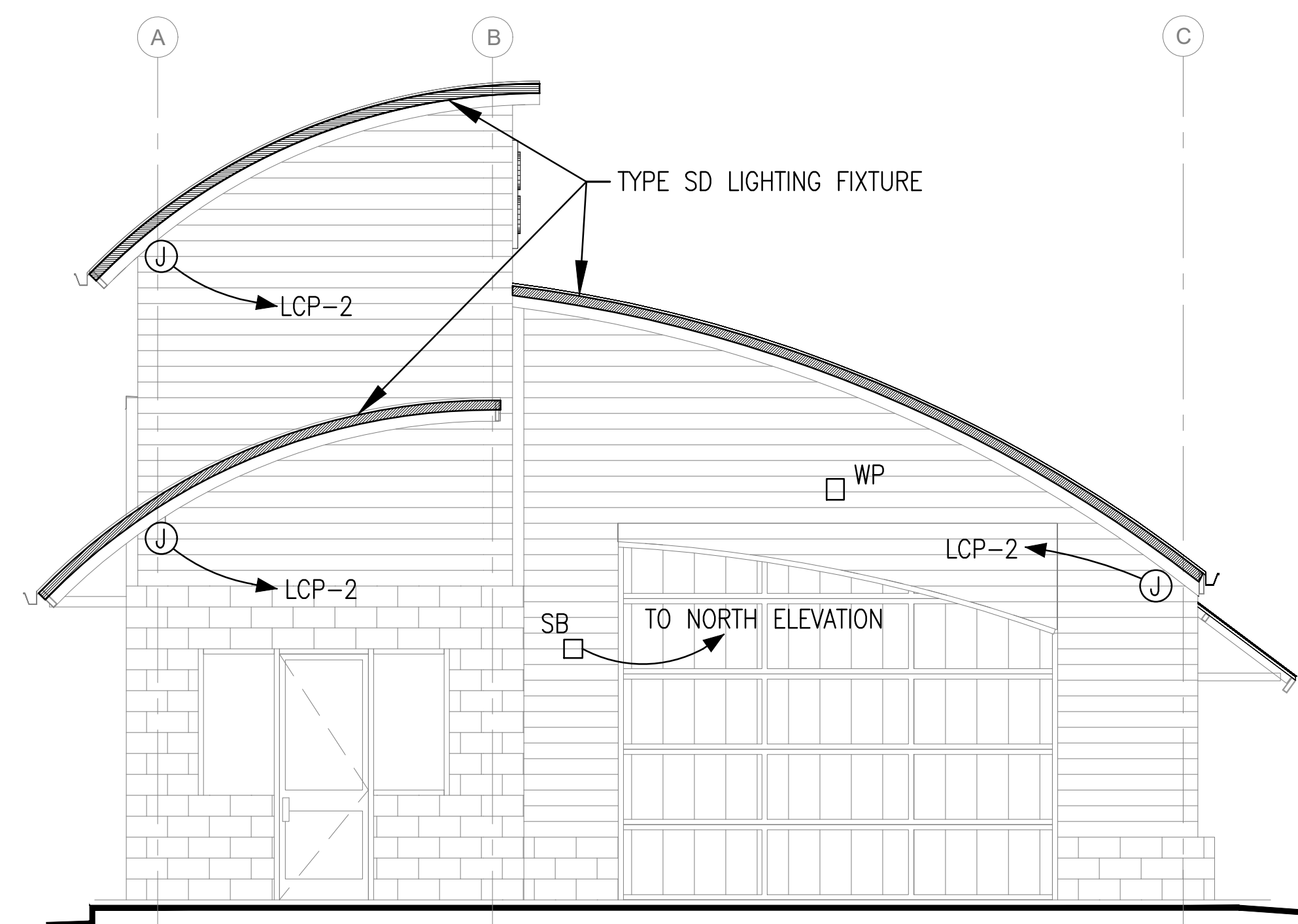
Date Drawn Checked
1-4-24 DMA BL

Drawing Number

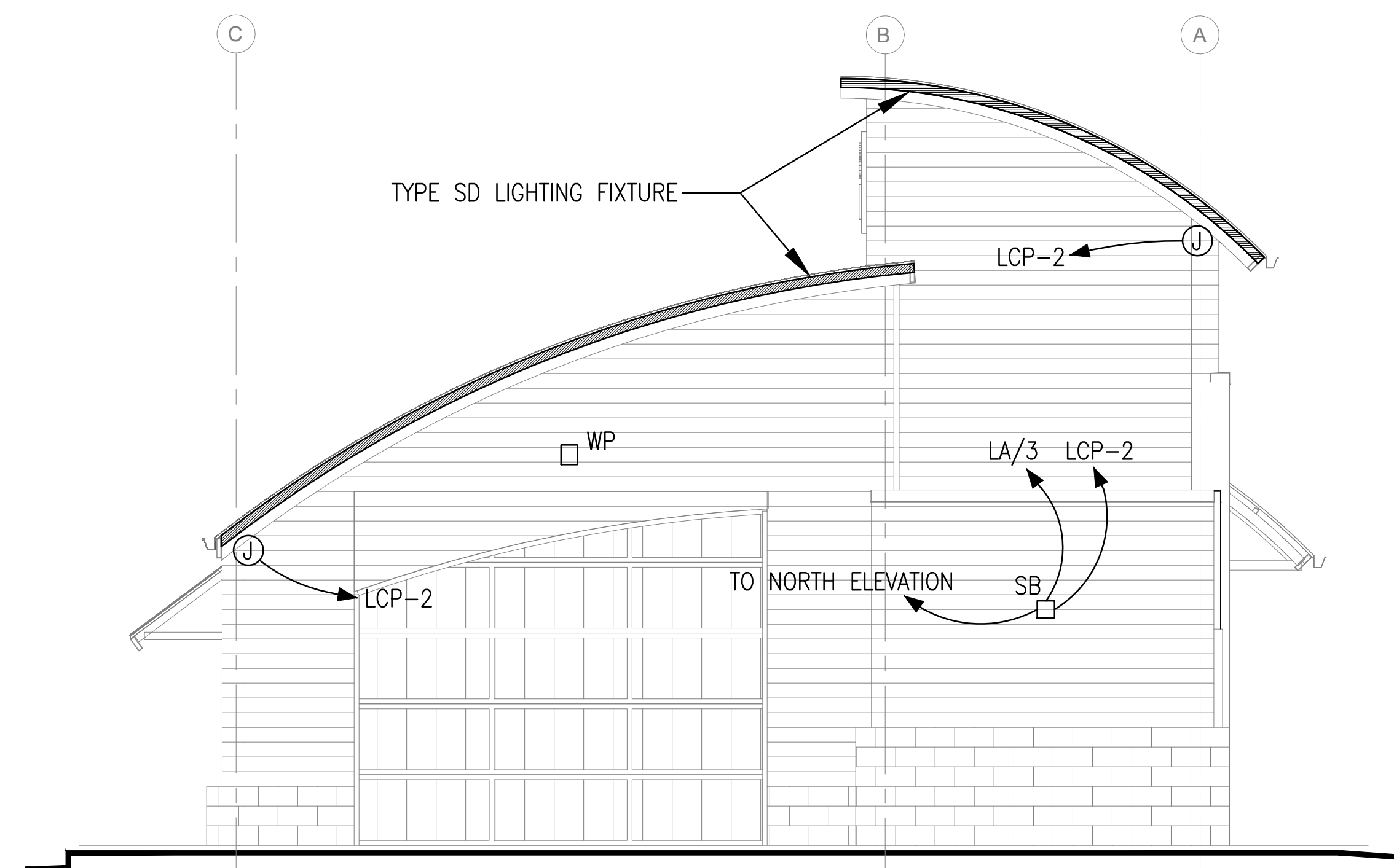
E-1



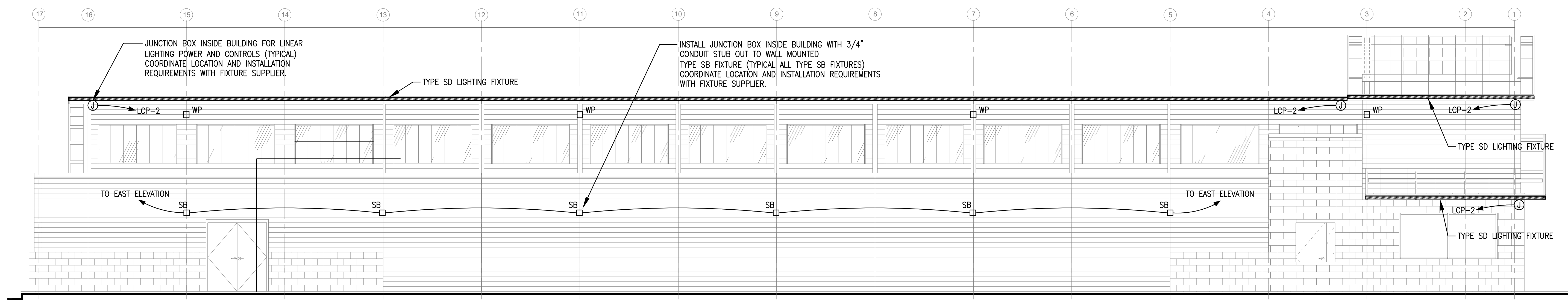
① TUNNEL-WASH ELEVATION (SOUTH)
3/16" = 1'-0"



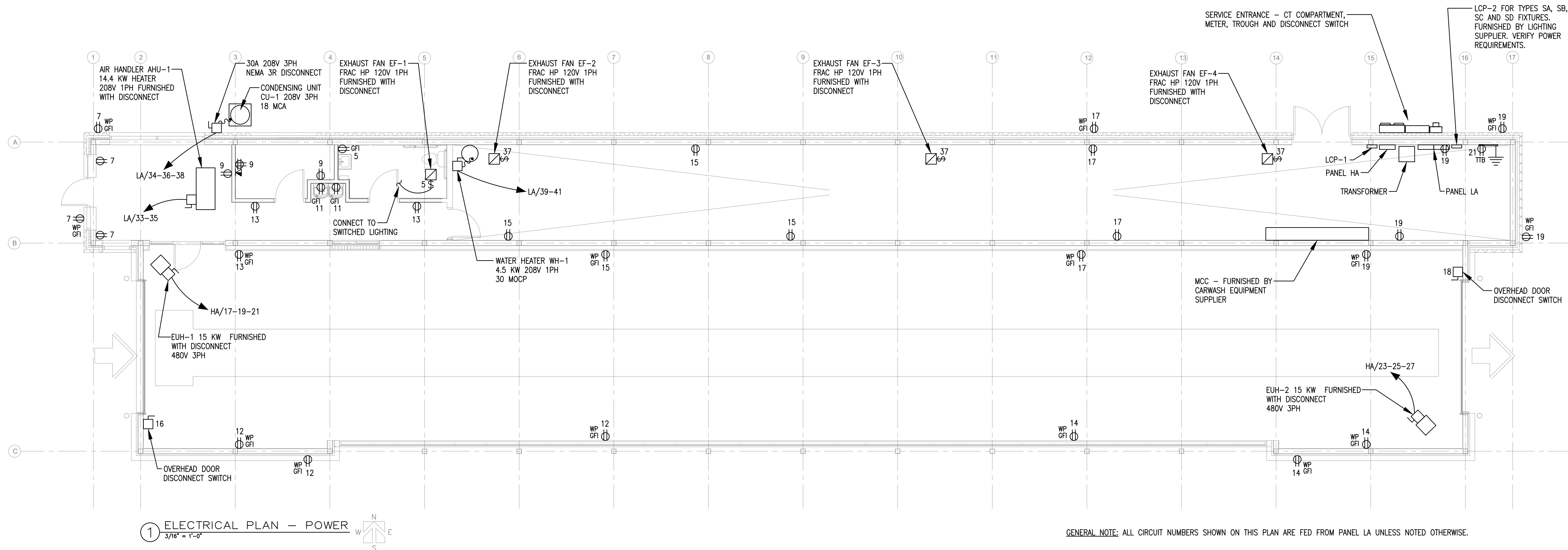
② ENTRY ELEVATION (WEST)
1/4" = 1'-0"

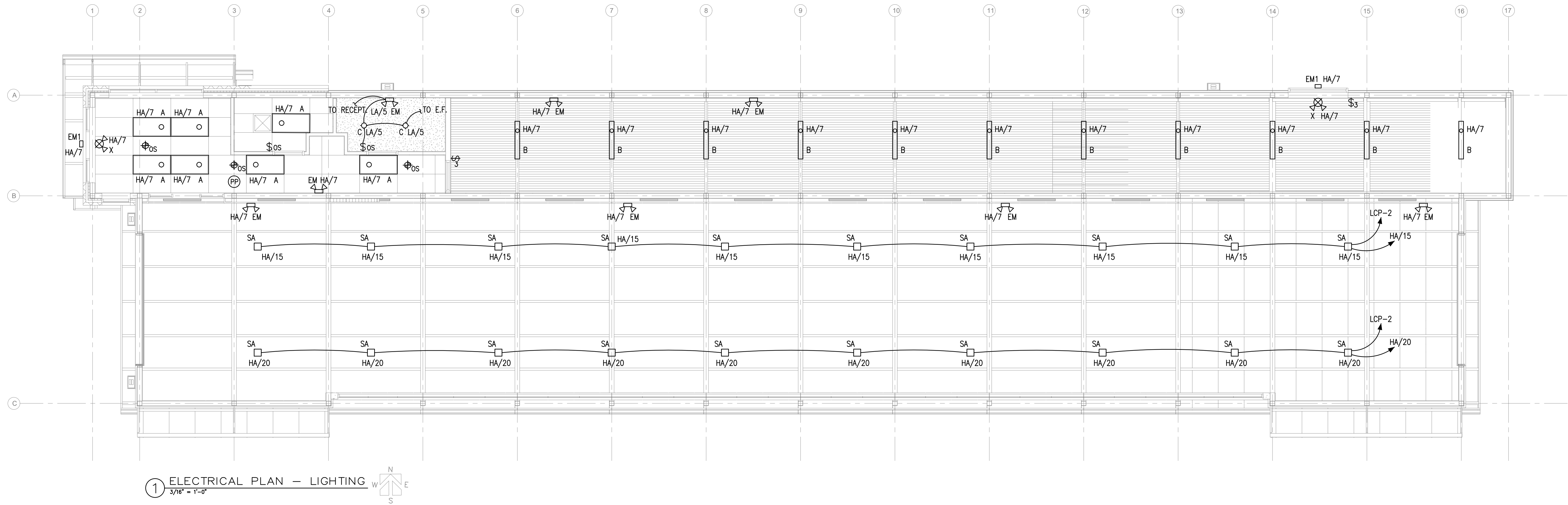


③ EXIT SIDE ELEVATION (EAST)
1/4" = 1'-0"



④ CUE LINE ELEVATION (NORTH)
3/16" = 1'-0"





Revisions

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**New
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EXPRESS
CARWASH**

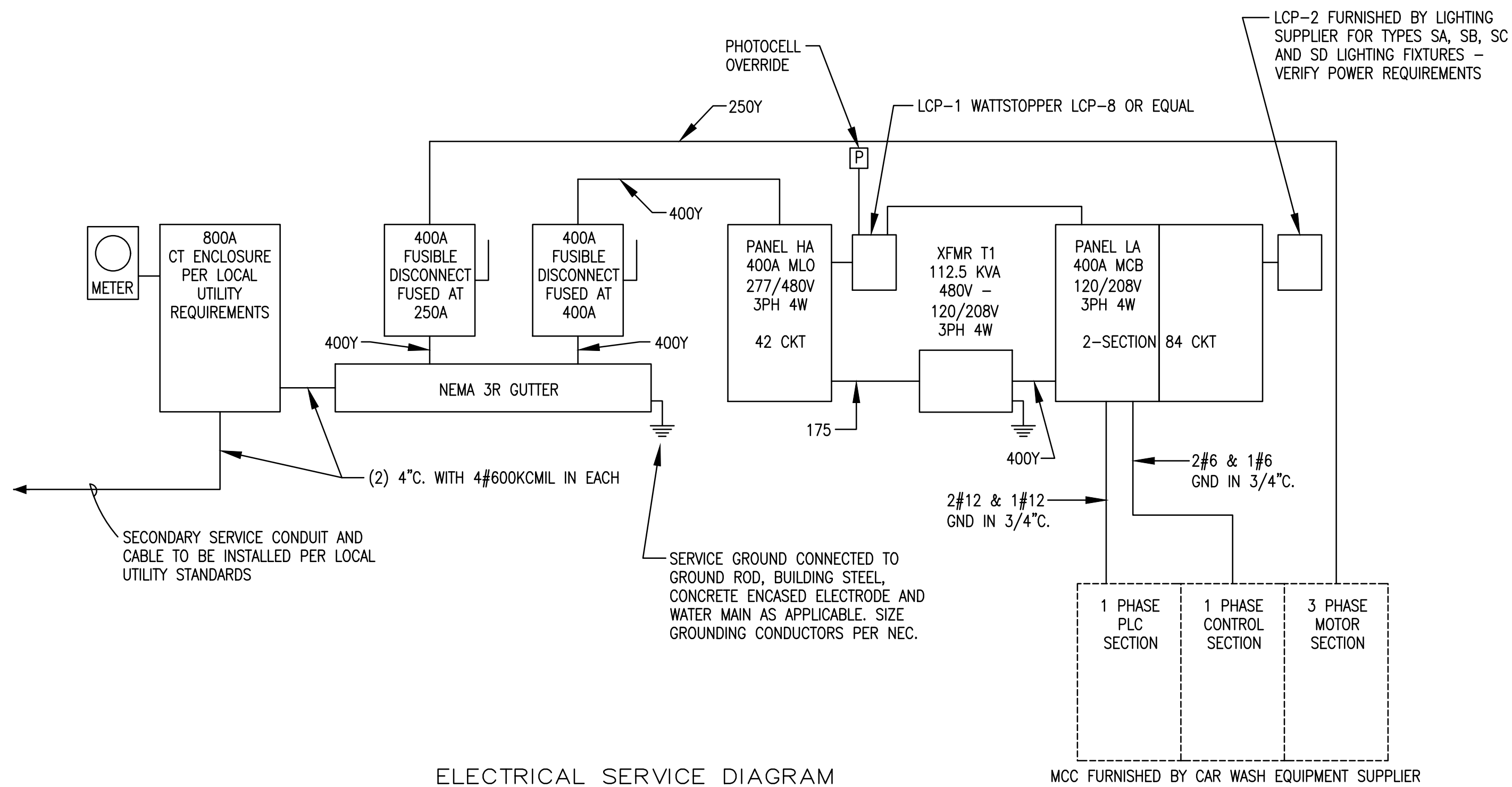
210 MO-150
LEE SUMMIT, MISSOURI
64082

Drawing Title
**ELECTRICAL
PLAN -
LIGHTING**

Date	Drawn	Checked
1-4-24	DMA	BL

Drawing Number
E-4

PANELBOARD SCHEDULE												
DESIGNATION:				VOLTAGE / PHASE / WIRE			BUS SIZE (AMPS):			MLO / MAIN C/B		
HA				277/480V 3PH 4W			400A			X :MLO	:M C/B	
CKT#	C/B	LOAD (WATTS)			LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)			C/B	CKT#	
		A PH	B PH	C PH			A PH	B PH	C PH			
1	20/3	4432			CENTRAL VACUUM	CENTRAL VACUUM	4432			20/3	2	
3			4432					4432			4	
5				4432					4432			6
7	20/1	3500			LIGHTING	SITE LIGHTING - VIA LCP-1	1500			20/1	8	
9	20/3		4432		CAR WASH - DNS-1 - DRY'N'SHINE SUPPLY *	CAR WASH - AC-1 - AIR COMPRESSOR *		3878		20/3	10	
11				4432					3878			12
13		4432						3878				14
15	20/1		3000		TYPE SA - LIGHTING (WASH TUNNEL)	CAR WASH - AC-1 - AIR COMPRESSOR *		3878		20/3	16	
17				5000					3878			18
19	30/3	5000			HEATER - WASH TUNNEL		3878				3878	20
21	30/3		5000		HEATER - WASH TUNNEL	BUILDING LIGHTING - V/A LCP-1		270		20/1	22	
23				5000		SPARE					20/1	24
25		5000				SPARE					20/1	26
27			5000			SPARE				20/1	28	
29	20/1			3000	TYPE SA - LIGHTING (WASH TUNNEL)	SPARE				20/1	30	
31	20/1				SPARE	SPARE				20/1	32	
33	20/1				SPARE	SPARE				20/1	34	
35	20/1				SPARE	SPARE				20/1	36	
37	20/1				SPARE	XFMR T1 - 112.5 KVA	37500			175/3	38	
39	20/1				SPARE			37500			40	
41	20/1				SPARE				37500		42	
TOTALS		22364	21864	21864			51188	49958	49688	TOTALS		
GRAND TOTAL												
CONNECTED LOAD (WATTS): 216926												
LOAD IN AMPS: 261.04												



PANELBOARD SCHEDULE											
DESIGNATION:				VOLTAGE / PHASE / WIRE		BUS SIZE (AMPS):			MLO / MAIN C/B		
LA				120/208V 3PH 4W		400A			400A :M C/B		
CKT#	C/B	LOAD (WATTS)			LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)			C/B	CKT#
		A PH	B PH	C PH			A PH	B PH	C PH		
1	20/1	1600			CENTRAL VACUUM - LIGHTING	CENTRAL VACUUM - LIGHTING	1600			20/1	2
3	20/1		1600		TYPE SB - LIGHTING	SPARE				20/1	4
5	20/1			500	RESTROOM RECEPT / LIGHTING	TYPE SC - LIGHTING (VAC STATIONS)			1600	20/1	6
7	20/1	720			RECEPTS	TYPE SC - LIGHTING (VAC STATIONS)	1600			20/1	8
9	20/1		720		RECEPTS	TYPE SC - LIGHTING (PAY STATIONS)		1600		20/1	10
11	20/1			1920	RECEPTS - ELECTRIC WATER COOLER	RECEPTS			540	20/1	12
13	20/1	540			RECEPTS	RECEPTS	540			20/1	14
15	20/1		720		RECEPTS	OVERHEAD DOOR		1200		20/1	16
17	20/1			720	RECEPTS	OVERHEAD DOOR			1200	20/1	18
19	20/1	900			RECEPTS	CAR WASH MCC - CONTROL CIRCUIT	5760			60/1	20
21	20/1		1920		RECEPT - DEDICATED	CAR WASH MCC - PLC CIRCUIT		1920		20/1	22
23	20/1			1800	CAR WASH - GA-1 CONT PNL *	CAR WASH - PFLT-1 - PROF CONT PWR BOX *			1800	20/1	24
25	20/1	1800			CAR WASH - TRK-1 OPEN BED DETECT *	CAR WASH - DNS-2 - DRY'N SHINE CONT PWR *	1800			20/1	26
27	20/1		1800		CAR WASH - AC-1 OPEN BED DETECT *	CAR WASH - DNS-9 - LED PWR SUPPLY *		240		20/1	28
29	20/1			1800	CAR WASH - AD-1 - AIR DRYER *	CAR WASH - SPIN-3 - SPINSHINE SUPPLY			1200	20/1	30
31	20/1	1800			CAR WASH - AD-1 - AIR DRYER *	CAR WASH - MGAG-1 - ANTICOLLISION CONT *	240			20/1	32
33			7500					1728			34
35	100/2			7500	RTU	CU-1			1728	30/3	36
37	20/1	800			EXHAUST FANS - EQUIP ROOM		1728				38
39			2250			GATE		600		20/1	40
41	30/2			2250	WATER HEATER	GATE			600	20/1	42
43	20/1				SPARE	GATE	600			20/1	44
45	20/1				SPARE	PAY STATION		960		20/1	46
47	20/1				SPARE	PAY STATION			960	20/1	48
49	20/1				SPARE	PAY STATION	960			20/1	50
51	20/1				SPARE	SPARE				20/1	52
53	20/1				SPARE	SPARE				20/1	54
55	20/1				SPARE	SPARE				20/1	56
57	20/1				SPARE	SPARE				20/1	58
59	20/1				SPARE	SPARE				20/1	60
61	20/1				SPARE	SPARE				20/1	62
63	20/1				SPARE	SPARE				20/1	64
65	20/1				SPARE	SPARE				20/1	66
67	20/1				SPARE	SPARE				20/1	68
69	20/1				SPARE	SPARE				20/1	70
71	20/1				SPARE	SPARE				20/1	72
73	20/1				SPARE	SPARE				20/1	74
75	20/1				SPARE	SPARE				20/1	76
77	20/1				SPARE	SPARE				20/1	78
79	20/1				SPARE	SPARE				20/1	80
81	20/1				SPARE	SPARE				20/1	82
83	20/1				SPARE	SPARE				20/1	84
TOTALS		8160	16510	16490			14828	8248	9628	TOTALS	
GRAND TOTAL											
CONNECTED LOAD (WATTS): 73864											
X 75% DIVERSITY (WATTS): 55398											
LOAD IN AMPS: 153.88											

LIGHTING FIXTURE SCHEDULE			
TYPE	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	METALUX	24GR-LD5-42-F1-UNV-L835-CD-1	2x4 LED LAY-IN
B	METALUX	45NLED-LD5-41SL-LW-UNV-L835-CD1-U	4' LED LINEAR
C	HALO	HC615D010	6" RECESSED DOWN LIGHT
EM	SURELITES	SEL255SD	2-HEAD EMERGENCY
EM1	LUMARK	XTOR6B-PC2-CBP	EXTERIOR EGRESS EMERGENCY
X	SURELITES	LPXC25	EXIT/EMERGENCY W/ EM HEADS
S1	LUMARK	PRV-XL-PA3A-740-U-SWQ	EXTERIOR POLE MOUNT FIXTURE
S3	LUMARK	PRV-XL-PA3A-740-T3-HSS	EXTERIOR POLE MOUNT FIXTURE
S4	LUMARK	PRV-XL-PA3A-740-T4W-HSS	EXTERIOR POLE MOUNT FIXTURE
WP	LUMARK	XTOR3B-W	EXTERIOR WALL MOUNT FIXTURE
SA	MAGNIFLOOD	MAG-F-300	PROVIDED BY J-SQUARED LIGHTING - COORDINATE REQUIREMENTS W/ JOHN WOERNER (john@jsquaredsystems.com)
SB	MAGNISCONCE	MAG-UD-53	PROVIDED BY J-SQUARED LIGHTING - COORDINATE REQUIREMENTS W/ JOHN WOERNER (john@jsquaredsystems.com)
SC	MAGNITUBE	MAG-T-80	PROVIDED BY J-SQUARED LIGHTING - COORDINATE REQUIREMENTS W/ JOHN WOERNER (john@jsquaredsystems.com)
SD	MAGNISIGN	MAG-S-160	PROVIDED BY J-SQUARED LIGHTING - COORDINATE REQUIREMENTS W/ JOHN WOERNER (john@jsquaredsystems.com)

Seal

Project Code

CCW-2201

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for

COWBOY
EXPRESS
CARWASH210 MO-150
LEE SUMMIT, MISSOURI
64082

Drawing Title

ELECTRICAL
SERVICE
DIAGRAM -
PANEL
SCHEDULES

Date Drawn Checked

1--4--24 DMA BL

Drawing Number

E-5