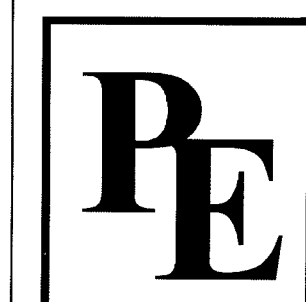




GIBALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
**LAWRENCE
CENTRAL
HIGH
SCHOOL**
RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



(6/28/10)
Project Record
Documents
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PROJECT
06-612

DATE
03/19/07

COORDINATED BY
MFJ

DRAWN BY
NAK

CHECKED BY
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REVISIONS
MARK DATE ISSUED FOR
07/21/10 AS BUILT DRAWINGS

DRAWING
POWER PARTIAL
POWER DISTRIBUTION
DIAGRAM - ALTERNATE BID
ALUMINUM CONDUCTORS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

AS BUILT
07/21/10

E-607

MARK & TYPE		REMARKS	
"L13" - SECTION 1 TYPE NOOD 120/208V, 3 PH, 4W 225 AMP MAIN LUGS NEMA 1 SURFACE MOUNTED		BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB VH TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 2 OF 2 PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS	
DESCRIPTION	CR POLE TRIP	LTS REC EQUIP	A B C HEAT A/C FUR (POLE TRIP) CR DESCRIPTION
307 MOTORIZED PROJECTION SCREEN	43 1 20	1.12 1.12	1 20 44 358 VENDING
WEIGHT ROOM SOUND SYSTEM	45 1 20	1.50 1.50	1 20 46 358 VENDING
SPARE	47 1 20	1.50 1.50	1 20 48 358 VENDING
SPARE	49 1 20	1.50 1.50	1 20 50 358 VENDING
SPARE	51 1 20	1.50 1.50	1 20 52 SPARE
SPARE	53 1 20	1.50 1.50	1 20 54 SPARE
SPARE	55 1 20	1.50 1.50	1 20 56 SPARE
SPARE	57 1 20	1.50 1.50	1 20 58 SPARE
SPARE	59 1 20	1.50 1.50	1 20 60 SPARE
SPARE	61 1		1 62 SPARE
SPARE	63 1		1 64 SPARE
SPARE	65 1		1 66 SPARE
SPARE	67 1		1 68 SPARE
SPARE	69 1		1 70 SPARE
SPARE	71 1		1 72 SPARE
SPARE	73 1		1 74 SPARE
SPARE	75 1		1 76 SPARE
SPARE	77 1		1 78 SPARE
SPARE	79 1		1 80 SPARE
SPARE	81 1		1 82 SPARE
SPARE	83 1		1 84 SPARE
TOTAL CONNECTED LOAD (KVA)		0.84 12.56	12.62 13.32 14.84
TOTAL DEMAND LOAD (KVA)		0.84 12.56	12.62 13.32 14.84

MARK & TYPE		REMARKS	
"L13" - SECTION 1 TYPE NOOD 120/208V, 3 PH, 4W 225 AMP MAIN LUGS NEMA 1 SURFACE MOUNTED		BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB VH TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 1 OF 2 PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS	
DESCRIPTION	CR POLE TRIP	LTS REC EQUIP	A B C HEAT A/C FUR (POLE TRIP) CR DESCRIPTION
307 MOTORIZED PROJECTION SCREEN	43 1 20	1.08 1.08	1 20 2 358 RECEPT (6)
311-311A,312 RECEPT (5)	3 1 20	0.90 0.90	1 20 4 358 RECEPT (7)
311C HAIR DRYER (40A)	5 1 20	0.75 0.75	1 20 6 307 354 RECEPT (4)
311C HAIR DRYER	7 1 30	0.72 0.72	1 20 8 354 RECEPT (4)
311C HAIR DRYER	9 1 30	0.72 0.72	1 20 10 354 RECEPT (6)
311C HAIR DRYER	11 1 30	0.72 0.72	1 20 12 307 WC RECEPT (2)
311C HAIR DRYER	13 1 30	0.72 0.72	1 20 14 307 MOTORIZED BATTING CASE (1 HP)
307 308 313 357 358 RECEPT (5)	15 1 20	0.90 0.90	1 20 16 307 MOTORIZED BACKSTOP (1 HP)
CUR-A1A,15,16,18,19 (1/2 1/8 HP)	17 1 20	1.52 1.52	1 20 18 307 354 358 359 RECEPT (4)
358 359A RECEPT (2)	19 1 20	0.72 0.72	1 20 20 351 RECEPT (5)
359 RECEPT (2)	21 1 20	0.58 0.58	1 20 22 348 351 RECEPT (3)
359 RECEPT (2)	23 1 20	0.58 0.58	1 20 24 CUH-B1 VAV-B2, B3, B4
359 358B RECEPT (4)	25 1 20	0.72 0.72	1 20 26 378 RECEPT (3)
358 360 RECEPT (8)	27 1 20	1.44 1.44	1 20 28 378 TC PANELS (2)
358A ICE MACHINE	29 1 20	1.50 1.50	1 20 30 HH-B2 VAV-B3, B4, B5 (1/2 HP)
358A WHIRLPOOL	31 1 20	1.50 1.50	1 20 32 FF-B2 EF-B4 (1/8, 1/4 HP)
358A WHIRLPOOL	33 1 20	1.50 1.50	1 20 34 FF-B2 EF-B4 (1/8, 1/4 HP)
358 HYDRO-KULATOR	35 1 20	1.50 1.50	1 20 36 EF-B3 (1/2 HP)
358 ROLLING DOOR (1/2 HP)	37 1 20	1.12 1.12	1 20 38 ELECTRIC DOOR STRIKE & HANDICAP DOORS
358 ROLLING DOOR (1/2 HP)	39 1 20	1.12 1.12	1 20 40 358 VENDING
SPARE	41 1 20		1 20 42 358 VENDING
TOTAL CONNECTED LOAD (KVA)		12.60 33.89	18.58 17.32 12.11
TOTAL DEMAND LOAD (KVA)		13.30 32.89	17.32 12.11

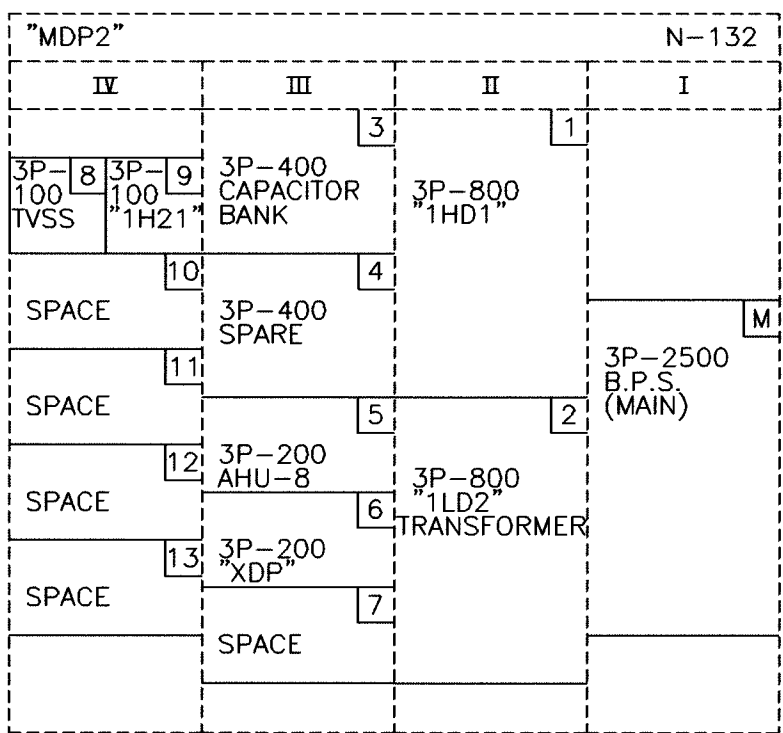
MARK & TYPE		REMARKS	
"L13" - SECTION 1 TYPE NOOD 120/208V, 3 PH, 4W 225 AMP MAIN LUGS NEMA 1 SURFACE MOUNTED		BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB VH TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 1 OF 2 PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS	
DESCRIPTION	CR POLE TRIP	LTS REC EQUIP	A B C HEAT A/C FUR (POLE TRIP) CR DESCRIPTION
358 RECEPT (4)	1 1 20	0.72 0.72	1 20 2 358 RECEPT (5)
358 RECEPT (1)	3 1 20	0.54 1.00	1 20 4 344 344A 345 RECEPT (3)
358 RECEPT (1)	5 1 20	0.54 1.00	1 20 6 345 345A 346 RECEPT (3)
358 RECEPT (1)	7 1 20	0.54 1.00	1 20 8 346 346A 347 RECEPT (3)
358 RECEPT (1)	9 1 20	0.54 1.00	1 20 10 347 347A 348 RECEPT (3)
358 RECEPT (1)	11 1 20	0.54 1.00	1 20 12 348 348A 349 RECEPT (3)
358 RECEPT (1)	13 1 20	0.54 1.00	1 20 14 349 349A 350 RECEPT (3)
358 RECEPT (1)	15 1 20	0.54 1.00	1 20 16 350 350A 351 RECEPT (3)
358 RECEPT (1)	17 1 20	0.54 1.00	1 20 18 351 351A 352 RECEPT (3)
358 RECEPT (1)	19 1 20	0.54 1.00	1 20 20 352 352A 353 RECEPT (3)
358 RECEPT (1)	21 1 20	0.54 1.00	1 20 22 353 353A 354 RECEPT (3)
358 RECEPT (1)	23 1 20	0.54 1.00	1 20 24 354 354A 355 RECEPT (3)
358 RECEPT (1)	25 1 20	0.54 1.00	1 20 26 355 355A 356 RECEPT (3)
358 RECEPT (1)	27 1 20	0.54 1.00	1 20 28 356 356A 357 RECEPT (3)
358 RECEPT (1)	29 1 20	0.54 1.00	1 20 30 357 357A 358 RECEPT (3)
358 RECEPT (1)	31 1 20	0.54 1.00	1 20 32 358 358A 359 RECEPT (3)
358 RECEPT (1)	33 1 20	0.54 1.00	1 20 34 359 359A 360 RECEPT (3)
358 RECEPT (1)	35 1 20	0.54 1.00	1 20 36 360 360A 361 RECEPT (3)
358 RECEPT (1)	37 1 20	0.54 1.00	1 20 38 361 361A 362 RECEPT (3)
358 RECEPT (1)	39 1 20	0.54 1.00	1 20 40 362 362A 363 RECEPT (3)
358 RECEPT (1)	41 1 20	0.54 1.00	1 20 42 363 363A 364 RECEPT (3)
TOTAL CONNECTED LOAD (KVA)		0.00 7.38	65.54 27.01 20.00
TOTAL DEMAND LOAD (KVA)		0.00 7.38	65.54 27.01 20.00

MARK & TYPE		REMARKS	
"L13" - SECTION 2 TYPE NOOD 120/208V, 3 PH, 4W 225 AMP MAIN LUGS NEMA 1 SURFACE MOUNTED		BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB VH TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 2 OF 2 PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS	
DESCRIPTION	CR POLE TRIP	LTS REC EQUIP	A B C HEAT A/C FUR (POLE TRIP) CR DESCRIPTION
365 AUDIO VIDEO EQUIPMENT	43 1 20	1.50 1.50	1 20 44 358 VENDING
365 DISPLAY CASE RECEPT (4)	45 1 20	0.72 0.72	1 20 46 358 VENDING
365 RECEPT (1)	47 1 20	0.54 1.00	1 20 48 358 VENDING
365 RECEPT (1)	49 1 20	0.54 1.00	1 20 50 358 VENDING
365 RECEPT (1)	51 1 20	0.54 1.00	1 20 52 358 VENDING
365 RECEPT (1)	53 1 20	0.54 1.00	1 20 54 358 VENDING
365 RECEPT (1)	55 1 20	0.54 1.00	1 20 56 358 VENDING
365 RECEPT (1)	57 1 20	0.54 1.00	1 20 58 358 VENDING
365 RECEPT (1)	59 1 20	0.54 1.00	1 20 60 358 VENDING
365 RECEPT (1)	61 1		1 62 SPARE
365 RECEPT (1)	63 1		1 64 SPARE
365 RECEPT (1)	65 1		1 66 SPARE
365 RECEPT (1)	67 1		1 68 SPARE
365 RECEPT (1)	69 1		1 70 SPARE
365 RECEPT (1)	71 1		1 72 SPARE
365 RECEPT (1)	73 1		1 74 SPARE
365 RECEPT (1)	75 1		1 76 SPARE
365 RECEPT (1)	77 1		1 78 SPARE
365 RECEPT (1)	79 1		1 80 SPARE
365 RECEPT (1)	81 1		1 82 SPARE
365 RECEPT (1)	83 1		1 84 SPARE
TOTAL CONNECTED LOAD (KVA)		0.00 7.38	65.54 27.01 20.00
TOTAL DEMAND LOAD (KVA)		0.00 7.38	65.54 27.01 20.00

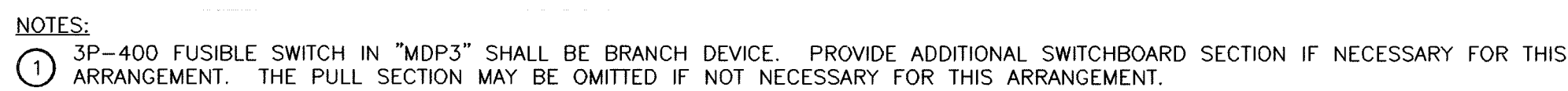
MARK & TYPE		REMARKS	
"L13" - SECTION 2 TYPE NOOD 120/208V, 3 PH, 4W 225 AMP MAIN LUGS NEMA 1 SURFACE MOUNTED		BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB VH TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 2 OF 2 PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS	
DESCRIPTION	CR POLE TRIP	LTS REC EQUIP	A B C HEAT A/C FUR (POLE TRIP) CR DESCRIPTION
GYMNASIUM SOUND SYSTEM EQUIP. CABINET	31 1 20	1.00 1.00	1 20 32 SPARE
GYMNASIUM SOUND SYSTEM EQUIP. CABINET	33 1 20	1.00 1.00	1 20 34 SPARE
SPARE	35 1 20	0.36 1.12 1.12	1 20 36 343 RECEPT (2)
WEST BLEACHERS	37 1 20	1.00 1.00	1 20 38 OF CABINET RECEPT
SPARE	39 1 20	1.12 1.12	1 20 40 RECEPT
SPARE	41 1 20	1.00 1.00	1 20 42 SPARE
SPARE	43 1 20	1.00 1.00	1 20 44 SPARE
SPARE	45 1 20	1.00 1.00	1 20 46 SPARE
SPARE	47 1 20	1.00 1.00	1 20 48 SPARE
SPARE	49 1 20	1.00 1.00	1 20 50 SPARE
SPARE	51 1 20	1.00 1.00	1 20 52 SPARE
SPARE	53 1 20	1.00 1.00	1 20 54 SPARE
SPARE	55 1 20	1.00 1.00	1 20 56 SPARE
SPARE	57 1 20	1.00 1.00	1 20 58 SPARE
SPARE	59 1 20	1.00 1.00	1 20 60 SPARE
TOTAL CONNECTED LOAD (KVA)		0.36 13.32	13.32 14.84
TOTAL DEMAND LOAD (KVA)		0.36 13.32	13.32 14.84

MARK & TYPE		REMARKS	
"L13" - SECTION 2 TYPE NOOD 120/208V, 3 PH, 4W 225 AMP MAIN LUGS NEMA 1 SURFACE MOUNTED		BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB VH TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 2 OF 2 PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS	
DESCRIPTION	CR POLE TRIP	LTS REC EQUIP	A B C HEAT A/C FUR (POLE TRIP) CR DESCRIPTION
ELEVATOR RECEPT (1)	1 1 20	0.18 0.18	1 20 2 327 RECEPT (5)
325 325A 325 RECEPT (5)	3 1 20	0.90 0.90	1 20 4 321 RECEPT (1)
MOTORIZED BACKSTOP (1 HP)	5 1 30	0.54 0.20 0.74	1 20 6 321 RECEPT (1)
MOTORIZED BACKSTOP (1 HP)	7 1 30	0.54 0.20 0.74	1 20 8 321 RECEPT (1)
CUH-A4 1/8 (1/8 HP)	9 1 20	0.60 0.60	1 20 10 328 RECEPT (1)
ELEVATOR LTS	11 1 20	0.50 0.50	1 20 12 301 RECEPT (7)
ELEV. EQUIPMENT 324A RECEPT (1)	13 1 20	0.18 0.18	1 20 14 328 RECEPT (1)
307 322 RECEPT (5)	15 1 20	0.90 0.90	1 20 16 331 332 RECEPT (4)
325 325 RECEPT (5)	17 1 20	0.54 1.50	1 20 18 331 332 RECEPT (4)
CUH-A4 1/8 (1/8 HP)	19 1 20	0.52 0.52	1 20 20 334 RECEPT (1)
375 374 RECEPT (5)	21 1 20	0.18 0.18	1 20 22 CUH-A1 A2 A3 (1/2 1/8 HP)
CUH-A1 A2 A3 (1/2 1/8 HP)	23 1 20	1.06 1.06	1 20 24 375 MOTORIZED BACKSTOP (1 HP)
TC PANELS (2)	25 1 20	1.50 1.50	1 20 26 375 RECEPT (3)
358A HAIR DRYER	27 1 20	0.54 0.54	1 20 28 ELECTRIC DOOR STRIKE AND HANDICAP DOOR
SPARE	29 1 20	1.00 1.00	1 20 30 375 MOTORIZED CURTAIN (1 HP)
SPARE	31 1 20	1.00 1.00	1 20 32 SPARE
SPARE	33 1 20	1.00 1.00	1 20 34 SPARE
SPARE	35 1 20	1.00 1.00	1 20 36 SPARE
SPARE	37 1 20	1.00 1.00	1 20 38 SPARE
SPARE	39 1 20	1.00 1.00	1 20 40 SPARE
SPARE	41 1 20	1.00 1.00	1 20 42 SPARE
TOTAL CONNECTED LOAD (KVA)		2.28 13.60	6.42 7.56 11.62
TOTAL DEMAND LOAD (KVA)		6.28 13.60	6.42 7.56 11.62

MARK & TYPE		REMARKS	
"L13" - SECTION 2 TYPE NOOD 120/208V, 3 PH, 4W 225 AMP MAIN LUGS NEMA 1 SURFACE MOUNTED		BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS CIRCUIT BREAKERS SHALL HAVE MINIMUM 10,000 AMP INTERRUPTING CAPACITY - TYPE QOB VH TWO SECTION PANEL - BOTH SECTIONS SAME HEIGHT - SECTION 2 OF 2 PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS	
DESCRIPTION	CR POLE TRIP	LTS REC EQUIP	A B C HEAT A/C FUR (POLE TRIP) CR DESCRIPTION
363 RECEPT (4)	1 1 20	0.72 0.72	1 20 2 363 RECEPT (4)
363 RECEPT (4)	3 1 20	0.72 0.72	1 20 4 363 RECEPT (3)
363 MOTORIZED BACKSTOP (1 HP)	5 1 30	0.54 1.92	1 20 6 363 RECEPT (3)
363 MOTORIZED CURTAIN (1 HP)	7 1 30	0.54 1.92	1 20 8 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	9 1 30	0.54 1.92	1 20 10 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	11 1 30	0.54 1.92	1 20 12 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	13 1 30	0.54 1.92	1 20 14 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	15 1 30	0.54 1.92	1 20 16 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	17 1 30	0.54 1.92	1 20 18 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	19 1 30	0.54 1.92	1 20 20 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	21 1 30	0.54 1.92	1 20 22 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	23 1 30	0.54 1.92	1 20 24 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	25 1 30	0.54 1.92	1 20 26 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	27 1 30	0.54 1.92	1 20 28 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	29 1 30	0.54 1.92	1 20 30 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	31 1 30	0.54 1.92	1 20 32 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	33 1 30	0.54 1.92	1 20 34 363 MOTORIZED BACKSTOP (1 HP)
363 MOTORIZED CURTAIN (1 HP)	35 1 30	0.54 1.92	1 20 36 363 MOTORIZED BACKSTOP



"1LD1"									
I		II		III		IV		V	
3P-1600 8 P.S. (MAIN)	M	3P-200 LGIDB	1	3P-200 1L34	8	3P-174 1L21	3P-165 1VSS	15	
			2	3P-200 1L40 (100A FUSE)	9	3P-172 1L35	3P-177 1L22	17	
		3P-200 1L23			10	3P-133 1L37	3P-169 1L20	19	
		3P-200 2L3	3	3P-200 SPARE	11			20	
		3P-200 1L6	4	3P-200 1L7	12	3P-200 SPARE		21	
		3P-200 2L1	5	3P-200 1L2	13	3P-200 SPARE		22	
		3P-160 100 2L2	6	3P-200 1L24	14				



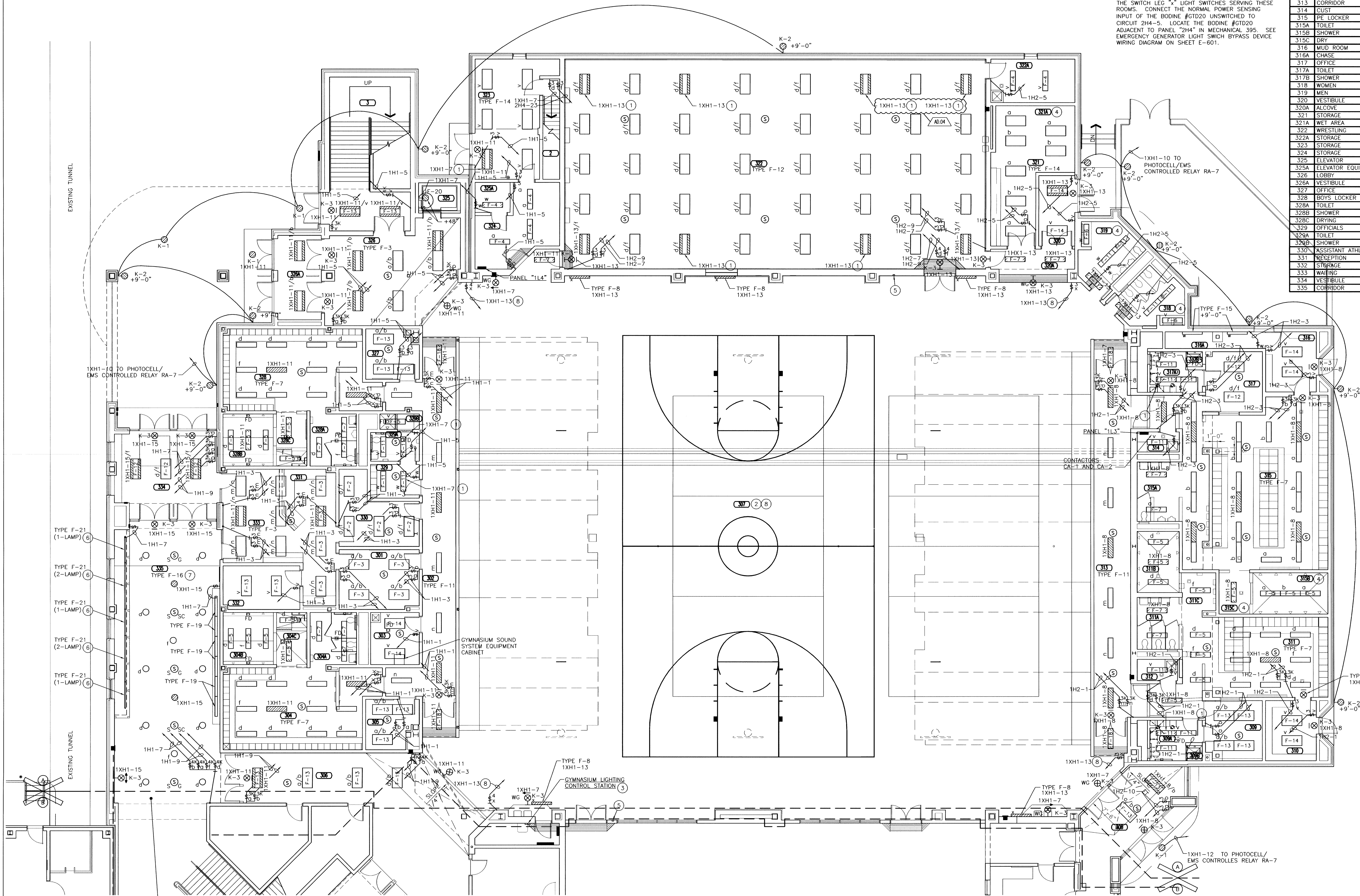
- ① FEEDER CONDUCTORS TO REMAIN COPPER AS INDICATED UNDER BASE BID - SEE SHEET E-702.
- ② FEEDER HAS ISOLATED GROUND CONDUCTOR - SEE GROUNDING DETAIL ON SHEET E-001.
- ③ FEEDER CONDUCTORS TO BE ALUMINUM UNDER ALTERNATE BID.
- ④ 3P-400 FUSIBLE SWITCH IN "MDP3" SHALL BE BRANCH DEVICE. PROVIDE ADDITIONAL SWITCHBOARD SECTION IF NECESSARY FOR THIS ARRANGEMENT. THE PULL SECTION MAY BE OMITTED IF NOT NECESSARY FOR THIS ARRANGEMENT.
- ⑤ EXISTING EQUIPMENT TO REMAIN.



PE

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E-703

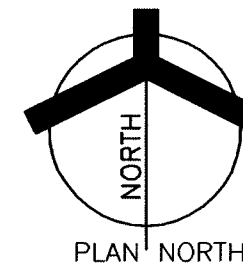


CLARIFICATION: IN CORRIDORS 335 AND 337, THE SPEAKER INDICATED AS SURFACE MOUNTED TYPE ARE TO BE MOUNTED TO THE EXPOSED STRUCTURE ABOVE THE OPEN CEILING GRID. THE SPEAKER ENCLOSURES ARE TO BE PAINTED BLACK TO MATCH THE EXPOSED STRUCTURE ABOVE THE CEILING GRID IN THIS AREA. THE SPEAKER BAFFLES ARE TO BE PAINTED BLACK TO MATCH. THE BAFFLE MAY BE FIELD PAINTED OR MAY BE MANUFACTURER FINISHED IN BLACK (E.G., ATLAS SOUND MODEL 164-8A-052).

UNIT "A" ELECTRICAL FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" 2-#10 AND 1-#10 GRD.



ELECTRICAL PLAN NOTES: (THESE NOTES APPLY TO THIS SHEET ONLY)

- 1 PROVIDE LIGHTING FIXTURE WITH EMERGENCY GENERATOR TRANSFER DEVICE (GTD). SEE DETAIL ON SHEET E-601.
- 2 SEE UNIT "A" ELECTRICAL SECOND FLOOR PLAN ON SHEET EL102 FOR OVERHEAD LIGHTING IN THIS ROOM.
- 3 GYMNASIUM LIGHTING CONTROL STATION. -SEE DETAIL ON SHEET E-602.
- 4 PROVIDE NEW LIGHTING FIXTURES IN EXISTING CEILING. CUT, PATCH AND PAINT EXISTING CEILING AS NECESSARY TO PROPERLY INSTALL NEW LIGHTING FIXTURE(S) IN THIS ROOM.
- 5 GYMNASIUM SOUND SYSTEM AUDIO INTERFACE INPUT PANEL. CONNECT TO GYMNASIUM SOUND SYSTEM. SEE SHEET E-704.
- 6 SUSPEND MOUNT TYPE F-21 LIGHTING FIXTURES JUST ABOVE THE TOP OF DISPLAY CASE WINDOW GLASS. VERIFY EXACT LOCATION WITH ARCHITECT.
- 7 SUSPEND MOUNT TYPE F-16 LIGHTING FIXTURES WITH BOTTOM OF FIXTURES FLUSH WITH BOTTOM OF ROOM CEILING GRID.
- 8 PROVIDE A BODINE #GTD20 SWITCH BYPASS DEVICE FOR EMERGENCY TRANSFER OF ALL TYPE F-8 AND TYPE F-9 LIGHTING FIXTURES IN GYMNASIUM 307 AND BALCONY 394. -CONNECT BODINE #GTD20 TO BYPASS THE SWITCH LEG "X" LIGHT SWITCHES SERVING THESE ROOMS. -CONNECT THE NORMAL POWER SENSING INPUT OF THE BODINE #GTD20 UNSWITCHED TO CIRCUIT 2H4-5. -LOCATE THE BODINE #GTD20 ADJACENT TO PANEL "2H4" IN MECHANICAL 395. -SEE EMERGENCY GENERATOR LIGHT SWICH BYPASS DEVICE WIRING DIAGRAM ON SHEET E-601.

ROOM NAME SCHEDULE

NO	NAME
1	STAIR
2	STAIR
3	STAIR
301	ATHLETIC DIRECTOR
302	CORRIDOR
303	CUSTODIAN & SOUND
304	GIRLS LOCKERS
304A	TOILET
304B	SHOWER
304C	DRYING
305	OFFICE
306	CORRIDOR
307	GYMNASIUM
308	LOBBY
309	OFFICE
309A	TOILET
309B	SHOWER
310	MUD ROOM
311	PE LOCKER
311A	TOILET
311B	SHOWER
311C	DRY
312	CUST
313	CORRIDOR
314	CUST
315	PE LOCKER
315A	TOILET
315B	SHOWER
315C	DRY
316	MUD ROOM
316A	CHASE
317	OFFICE
317A	TOILET
317B	SHOWER
318	WOMEN
319	MEN
320	VESTIBULE
320A	ALCOVE
321	STORAGE
321A	WE AREA
322	WRESTLING
322A	STORAGE
323	STORAGE
324	STORAGE
325	ELEVATOR
325A	ELEVATOR EQUIPMENT
326	LOBBY
326A	VESTIBULE
327	OFFICE
328	BOYS LOCKER
328A	TOILET
328B	SHOWER
328C	DRYING
329	OFFICIALS
329A	TOILET
329B	SHOWER
330	ASSISTANT ATHLETIC DIRECTOR
331	RECEPTION
332	STORAGE
333	WAITING
334	VESTIBULE
335	CORRIDOR



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DESIGN

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PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

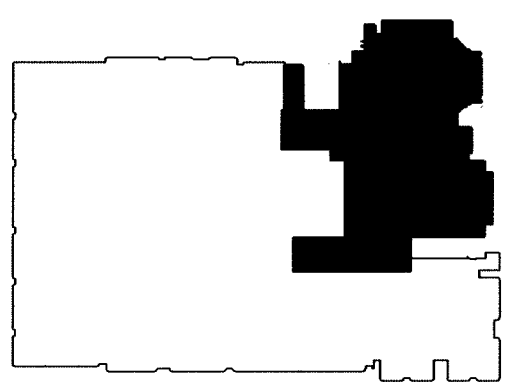
RENOVATIONS, ADDITIONS
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Prepared by:

Payne Electric Co., Inc.

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PROJECT

06-612

DATE

03/19/07

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07/21/10 AS BUILT DRAWINGS

DRAWING

UNIT "A" ELECTRICAL

FIRST FLOOR

LIGHTING PLAN

PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

AS BUILT
07/21/10

GIBRALTAR DESIGN

SHEET

A

EL101

PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

- 1 LIGHTING FIXTURES IN THIS ROOM CONTROLLED BY GYMNASIUM LIGHTING CONTROL STATION. SEE UNIT "G" FIRST FLOOR LIGHTING PLAN FOR LOCATIONS.
- 2 PROVIDE LIGHTING RELAYS RA-1 THRU RA-6 IN LIGHTING RELAY CABINET "LRCA1"
- 3 SCHOOL INTERCOMMUNICATION SYSTEM PAGING HORN INSTALLED ON BOTTOM CORD OF ROOF TRUSS. COORDINATE LOCATION WITH GYMNASIUM SOUND SYSTEM LOUDSPEAKER CLUSTER.
- 4 PROVIDE A BODINE #GTD20 SWITCH BYPASS DEVICE FOR EMERGENCY TRANSFER OF ALL TYPE F-8 AND TYPE F-9 LIGHTING FIXTURES IN GYMNASIUM 307 AND BALCONY 394. CONNECT BODINE #GTD20 TO BYPASS THE SWITCH LEG "X" LIGHT SWITCHES SERVING THESE ROOMS. CONNECT THE NORMAL POWER SENSING INPUT OF THE BODINE #GTD20 UNSWITCHED TO CIRCUIT 2H4-5. LOCATE THE BODINE #GTD20 ADJACENT TO PANEL "2H4" IN MECHANICAL 395. SEE EMERGENCY GENERATOR LIGHT SWITCH BYPASS DEVICE WIRING DIAGRAM ON SHEET E-601.
- 5 PROVIDE A BODINE #GTD20 SWITCH BYPASS DEVICE FOR EMERGENCY TRANSFER OF ALL TYPE F-8 AND TYPE F-9 LIGHTING FIXTURES IN BALCONY 397, ALCOVE 397A AND ALCOVE 397B. CONNECT BODINE #GTD20 TO BYPASS THE SWITCH LEG "X" LIGHT SWITCHES SERVING THESE ROOMS. CONNECT THE NORMAL POWER SENSING INPUT OF THE BODINE #GTD20 UNSWITCHED TO CIRCUIT 2H4-16. LOCATE THE BODINE #GTD20 ADJACENT TO PANEL "2H4" IN MECHANICAL 395. SEE EMERGENCY GENERATOR LIGHT SWITCH BYPASS DEVICE WIRING DIAGRAM ON SHEET E-601.
- 6 INSTALL TYPE K-5 LIGHTING FIXTURES SURFACE MOUNTED TO BOTTOM OF JOISTS. INSTALL TYPE F-9 LIGHTING FIXTURES WITH BOTTOM OF FIXTURES AT SAME HEIGHT AS BOTTOM OF TYPE K-5 FIXTURES IN THIS ROOM.

ROOM NAME SCHEDULE

NO	NAME
2	STAIR
3	STAIR
325	ELEVATOR
394	BALCONY
395	MECHANICAL
396	MECHANICAL
397	BALCONY
397A	ALCOVE



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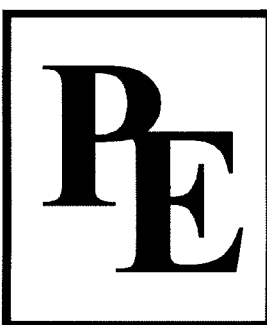
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PROJECT

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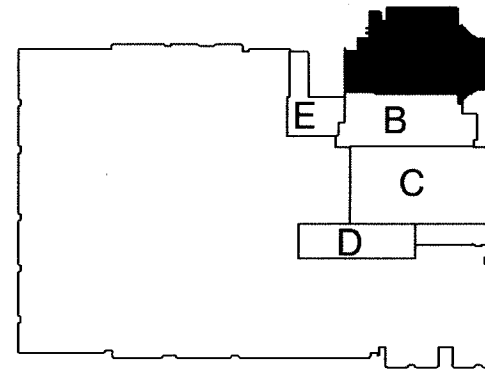
RENOVATIONS, ADDITIONS
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AS BUILT DRAWINGS

DRAWING

UNIT "A" ELECTRICAL

SECOND FLOOR

LIGHTING PLAN

PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN

SHEET

A

EL102

UNIT "A" ELECTRICAL SECOND FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

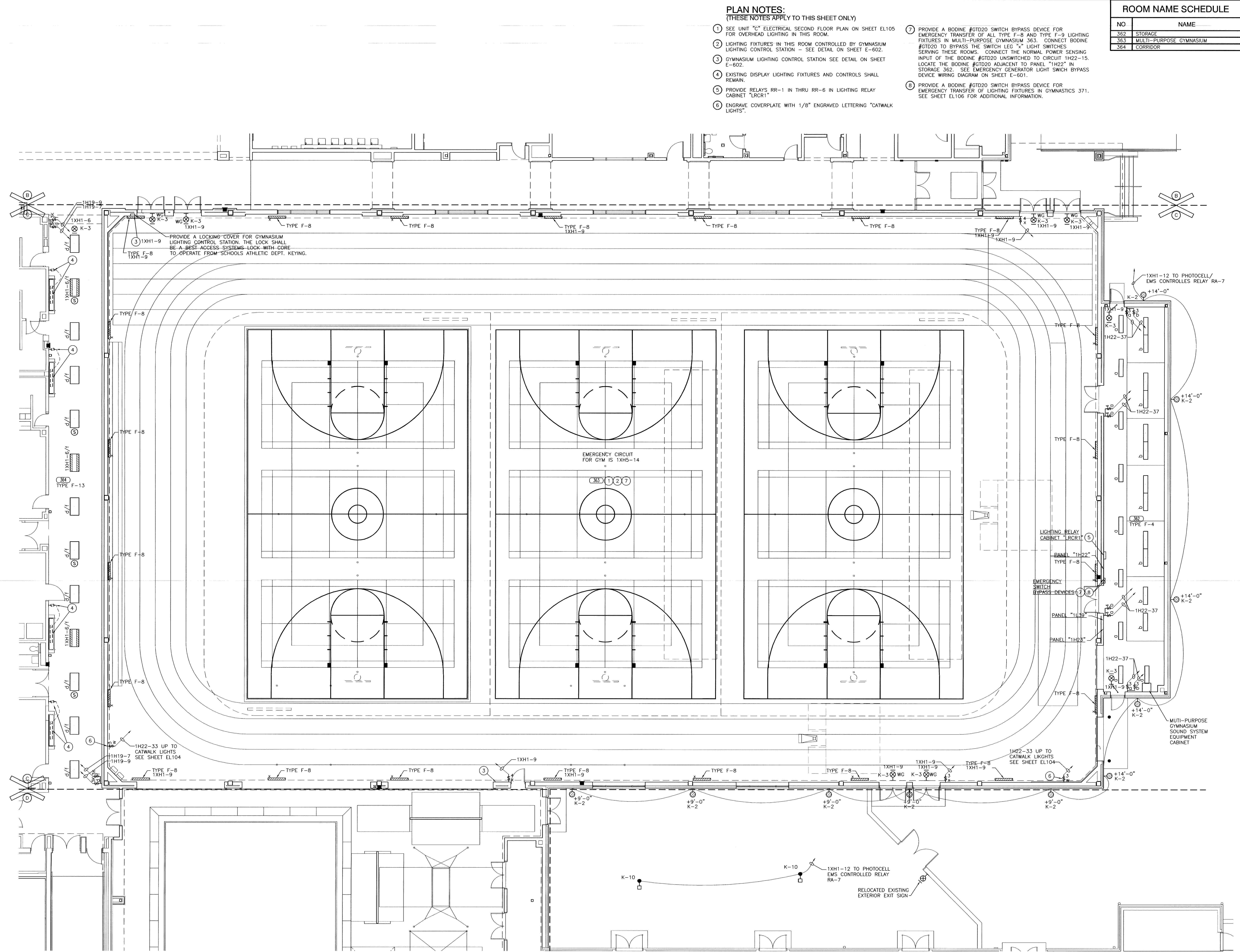
NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4"C 2-#10 AND 1-#10 GRD.



PLAN NORTH

AS BUILT

07/21/10



PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

- SEE UNIT "C" ELECTRICAL SECOND FLOOR PLAN ON SHEET EL105 FOR OVERHEAD LIGHTING IN THIS ROOM.
- LIGHTING FIXTURES IN THIS ROOM CONTROLLED BY GYMNASIUM LIGHTING CONTROL STATION - SEE DETAIL ON SHEET E-602.
- GYMNASIUM LIGHTING CONTROL STATION SEE DETAIL ON SHEET E-602.
- EXISTING DISPLAY LIGHTING FIXTURES AND CONTROLS SHALL REMAIN.
- PROVIDE RELAYS, RR-1 IN THRU RR-6 IN LIGHTING RELAY CABINET "LRCR1".
- ENGRAVE COVERPLATE WITH 1/8" ENGRAVED LETTERING "CATWALK LIGHTS".
- PROVIDE A BODINE #GTD20 SWITCH BYPASS DEVICE FOR EMERGENCY TRANSFER OF ALL TYPE F-8 AND TYPE F-9 LIGHTING FIXTURES IN MULTI-PURPOSE GYMNASIUM 363. CONNECT BODINE #GTD20 TO BYPASS THE SWITCH LEG "X" LIGHT SWITCHES SERVING THESE ROOMS. CONNECT THE NORMAL POWER SENSING INPUT OF THE BODINE #GTD20 UNSWITCHED TO CIRCUIT 1H22-15. LOCATE THE BODINE #GTD20 ADJACENT TO PANEL "1H22" IN STORAGE 362. SEE EMERGENCY GENERATOR LIGHT SWITCH BYPASS DEVICE WIRING DIAGRAM ON SHEET E-601.
- PROVIDE A BODINE #GTD20 SWITCH BYPASS DEVICE FOR EMERGENCY TRANSFER OF LIGHTING FIXTURES IN GYMNASIUMS 371. SEE SHEET EL105 FOR ADDITIONAL INFORMATION.

ROOM NAME SCHEDULE

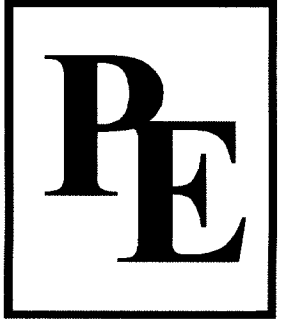
NO	NAME
362	STORAGE
363	MULTI-PURPOSE GYMNASIUM
364	CORRIDOR



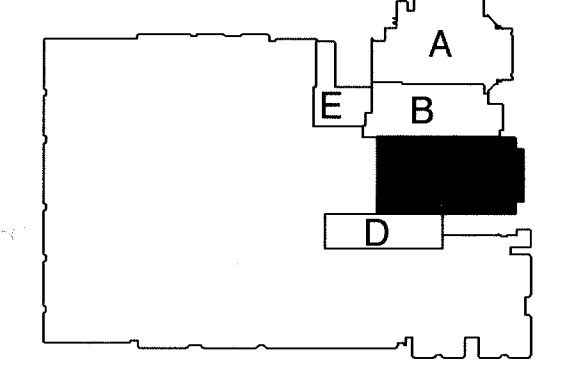
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PROJECT
**LAWRENCE
CENTRAL
HIGH
SCHOOL**
RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



(6/28/10)
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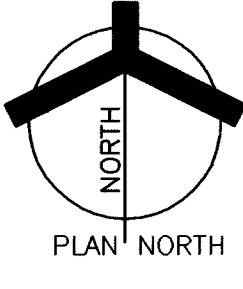
DRAWING
UNIT "C" ELECTRICAL
FIRST FLOOR
LIGHTING PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

© GIBRALTAR DESIGN SHEET
C EL104

UNIT "C" ELECTRICAL FIRST FLOOR LIGHTING PLAN

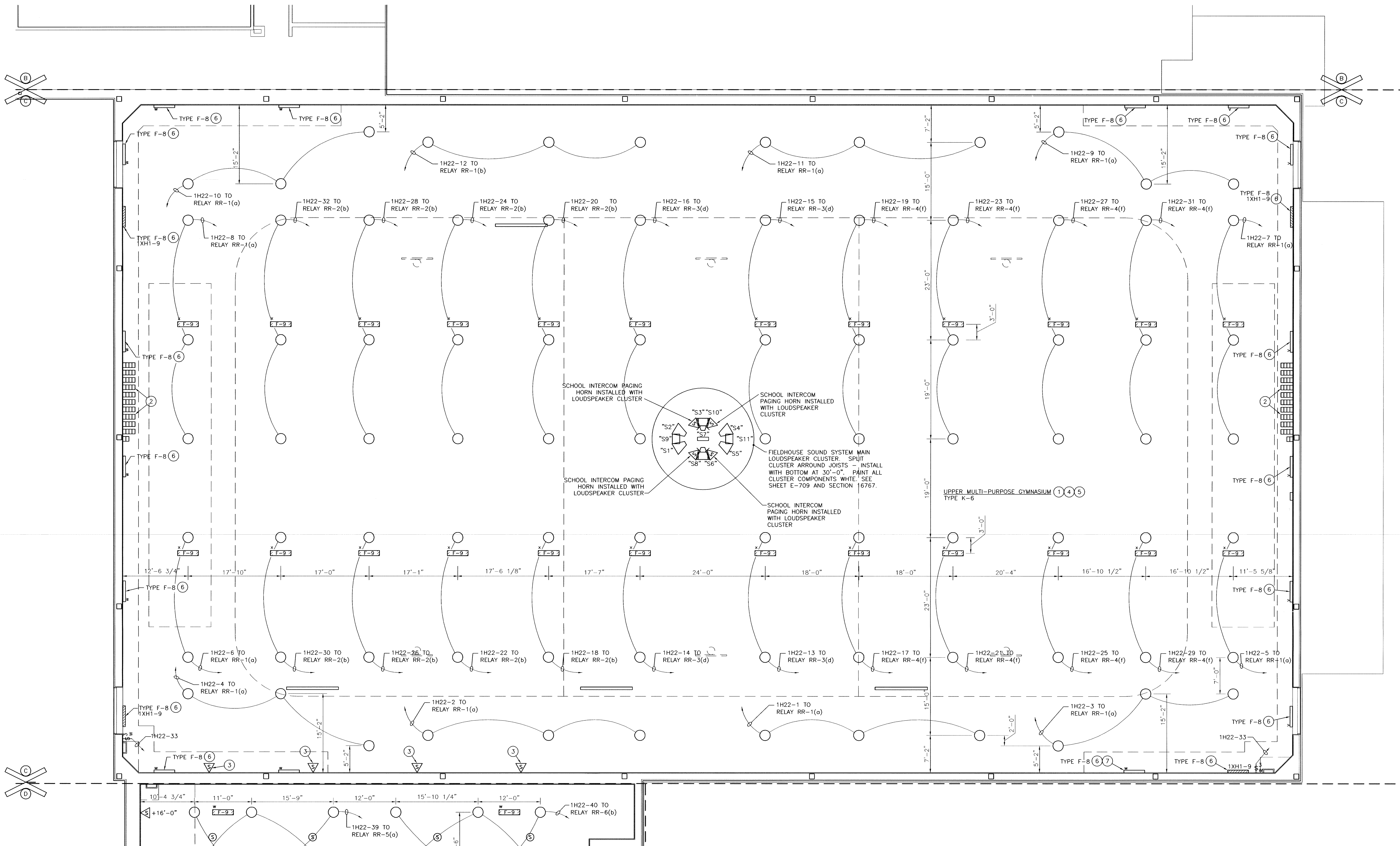
SCALE: 1/8" = 1'-0"
NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" 2-#10 AND 1-#10 GRD.



AS BUILT
07/21/10

ELECTRICAL PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

- 1 LIGHTING FIXTURES IN THIS ROOM CONTROLLED BY GYMNASIUM LIGHTING CONTROL STATION. SEE UNIT "C" ELECTRICAL FIRST FLOOR LIGHTING PLAN FOR LOCATIONS.
- 2 REMOTE BALLAST FOR TYPE K-6 LIGHTING FIXTURES MOUNTED BETWEEN THE STRUCTURAL STEEL AT +28'-9" ABOVE THE FINISHED FLOOR (+6'-0" ABOVE FLOOR OF CATWALK). VERIFY EXACT LOCATION WITH ARCHITECT.
- 3 GYMNASIUM ROOM SOUND SYSTEM CABINET LOUDSPEAKER. MOUNT TO WALL HORIZONTALLY AT +20'-0" AND AIM DOWNWARD TO PROVIDE COVERAGE FOR PORTABLE BLEACHERS IN THIS AREA.
- 4 PROVIDE A BODINE #GTD20 SWITCH BYPASS DEVICE FOR EMERGENCY TRANSFER OF ALL TYPE F-8 AND TYPE F-9 LIGHTING FIXTURES IN MULTI-PURPOSE GYMNASIUM 363. CONNECT BODINE #GTD20 TO BYPASS THE SWITCH LEG "X" LIGHT SWITCHES SERVING THESE ROOMS. CONNECT THE NORMAL POWER SENSING INPUT OF THE BODINE #GTD20 UNSWITCHED TO CIRCUIT 1H22-15. LOCATE THE BODINE #GTD20 ADJACENT TO PANEL "1H22" IN STORAGE 362. SEE EMERGENCY GENERATOR LIGHT SWITCH BYPASS DEVICE WIRING DIAGRAM ON SHEET E-601.
- 5 INSTALL TYPE K-6 AND TYPE F-9 LIGHTING FIXTURES AT +30'-6" ABOVE FINISHED FLOOR TO BOTTOM OF FIXTURES.



UNIT "C" ELECTRICAL SECOND FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4"C 2-#10 AND 1-#10 GRD.



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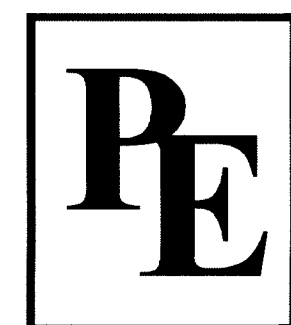
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PROJECT

**LAWRENCE
CENTRAL
HIGH
SCHOOL**

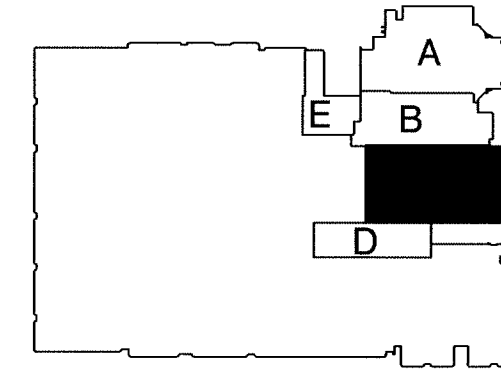
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DRAWING
UNIT "C" ELECTRICAL
SECOND FLOOR
LIGHTING PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

GIBRALTAR DESIGN

SHEET

C

EL105

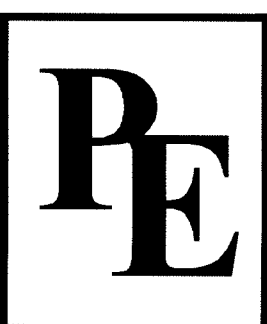
AS BUILT
07/21/10

ROOM NAME SCHEDULE	
NO	NAME
365	CORRIDOR
366	CLASSROOM
367	CLASSROOM
368	CLASSROOM
369	CORRIDOR
370	CORRIDOR
371	GYMNASICS
371A	STORAGE



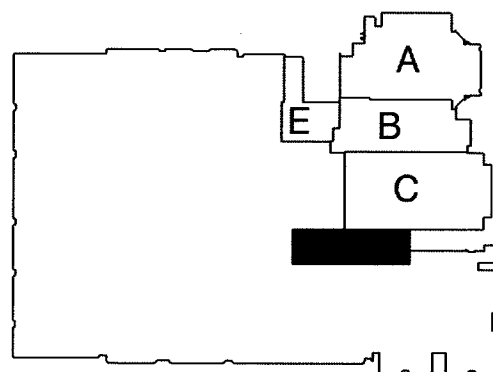
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PROJECT
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DRAWING
**UNIT "D" ELECTRICAL
FIRST FLOOR AND
SECOND FLOOR
LIGHTING PLANS**

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

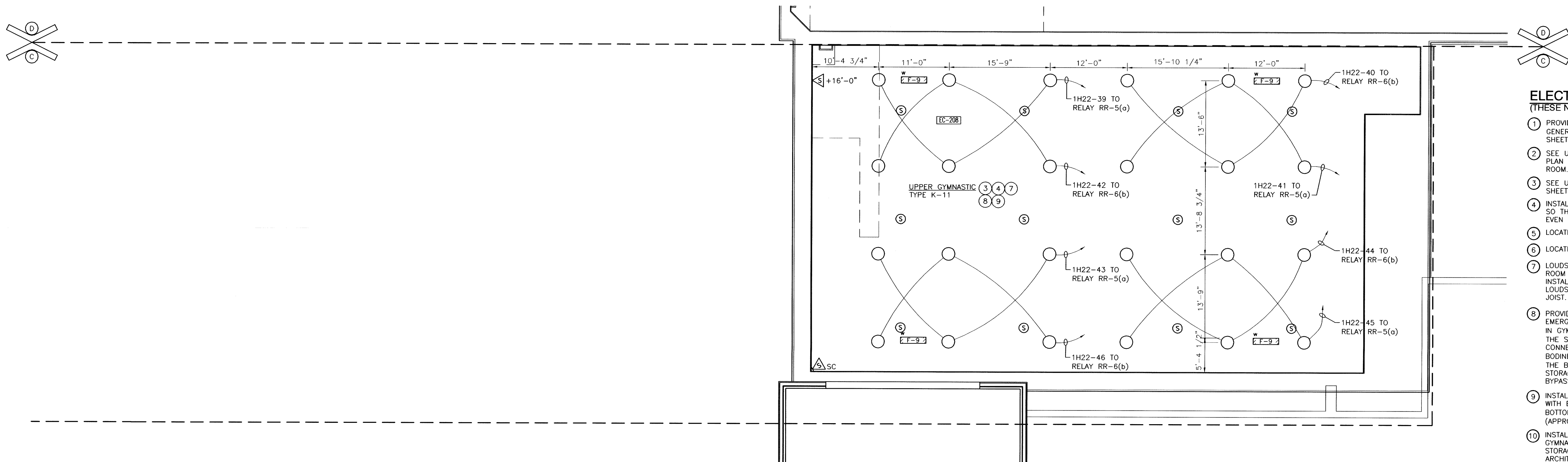
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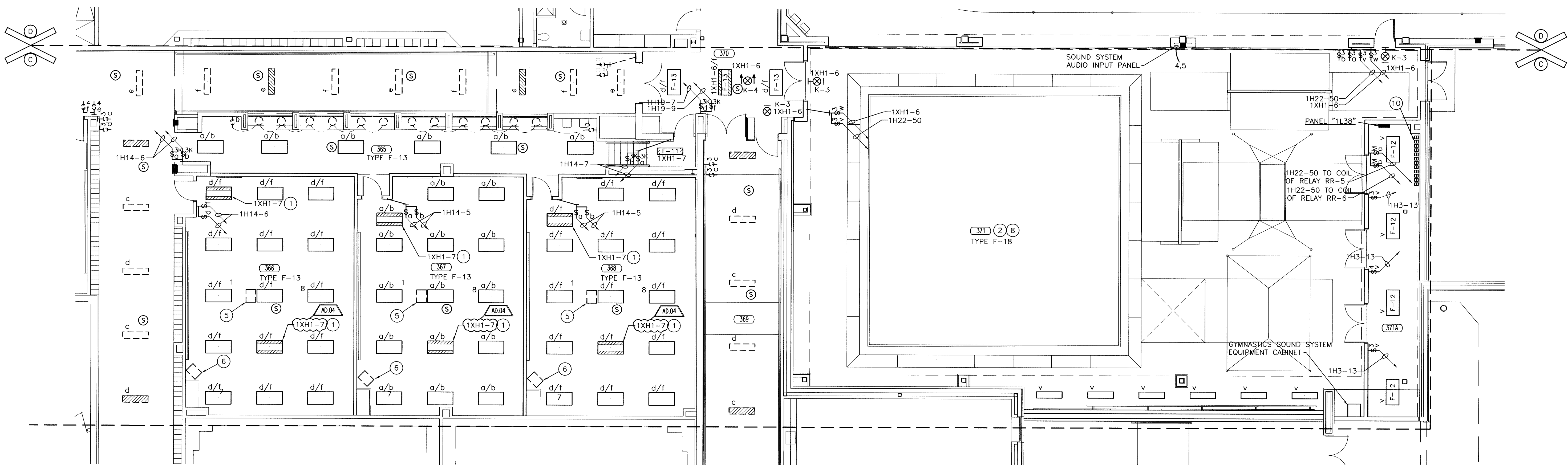
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EL106



UNIT "D" ELECTRICAL SECOND FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"



UNIT "D" ELECTRICAL FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

NOTE: CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO CIRCUITS INDICATED WITH 3/4" 2-#10 AND 1-#10 GRD.





SCALE: 1/8" = 1'-0"



- ① CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS AND CONTROLS.
- ② PROVIDE THREE (3) 1P-20 AMP CIRCUIT BREAKERS (CIRCUITS 13, 15 AND 17) IN EXISTING 3P-SPACE IN EXISTING PANEL "1XH1". NEW BREAKERS SHALL MATCH EXISTING PANEL BREAKERS IN TYPE AND INTERRUPTING RATING.

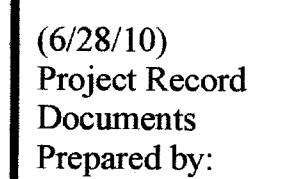


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	RENOVATIONS, ADDITIONS AND RELATED WORK
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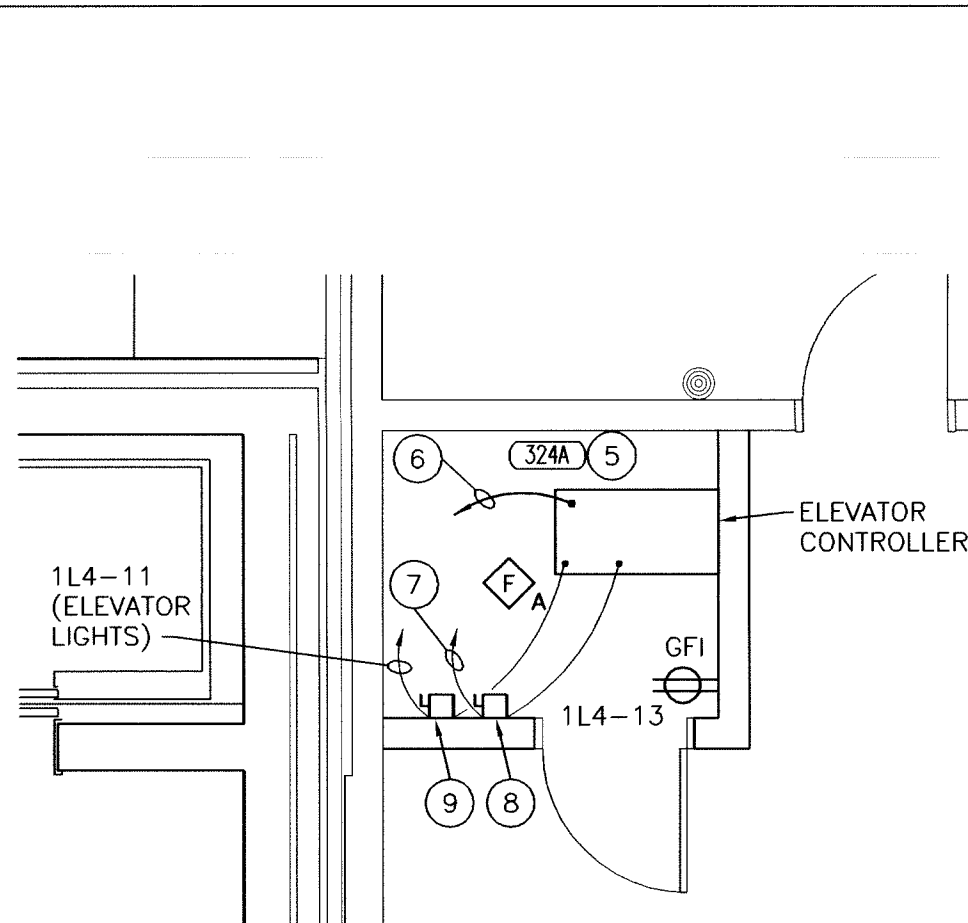
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DRAWING
UNIT "E" ELECTRICAL
FIRST FLOOR
LIGHTING PLAN

PROJECT	LAWRENCE CENTRAL HIGH SCHOOL
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AUXILIARY PLAN OF ELEVATOR EQUIPMENT
SCALE: 1/4" = 1'-0"

PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

- 1 3/4" C, 2-#10 AND 1-#10 GRD.
- 2 THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE APPROPRIATE PANEL SHALL BE #10 AWG.
- 3 6" WIDE X 3" DEEP CABLE TRAY.
- 4 CONTROLLER FOR MOTORIZED BACKSTOP, PROVIDED BY BACKSTOP SUPPLIER, TO BE INSTALLED BY DIVISION 16. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- 5 VERIFY EQUIPMENT LAYOUT AND ELECTRICAL ROUGH-IN REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- 6 PROVIDE TELEPHONE CABLE FROM THE ELEVATOR CONTROLLER BACK TO THE IDF EQUIPMENT CABINET LOCATED IN ROOM 343.
- 7 SEE POWER DISTRIBUTION DIAGRAM ON SHEETS E-702 AND E-703. ROUTE CHILLER FEEDER CONDUITS ABOVE CONCRETE WALK AT SAME HEIGHT AS CHILLED WATER LINES. CONDUIT SUPPORTS TO BE SAME TYPE AS UNUSED FOR CHILLED WATER LINES. COORDINATE WORK WITH DIVISION 15.
- 8 3P-100 AMP FUSIBLE SAFETY SWITCH FUSED AT 100 AMPS. PROVIDE SAFETY SWITCH WITH AUX. CONTACTOR FOR BATTERY LOWERING.
- 9 PROVIDE A 1P-20 AMP CIRCUIT BREAKER IN A NEMA 1 ENCLOSURE FOR THE ELEVATOR CAB LIGHTS. THE CIRCUIT BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 10 DISCONNECT PROVIDED BY DIVISION 15.
- 11 REINSTALL EXISTING CONTROLLER FOR MOTORIZED BATTING CAGE. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- 12 12"x12"x6" NEMA-1 JUNCTION BOX. COORDINATE MOUNTING HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- 13 3P, 30 AMP, 208 VOLT NON-FUSED DISCONNECT SWITCH IN A NEMA-1 ENCLOSURE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- 14 (DELETED)
- 15 MOUNT DEVICE ON FACE OF BLEACHER'S THIRD ROW; COORDINATE WITH BLEACHER CONSTRUCTION. SEE TYPICAL BLEACHER WIRING DETAIL ON SHEET E-602.
- 16 WALL MOUNTED 12"x12"x6" NEMA-1 JUNCTION BOX FOR CONNECTION TO DEVICES ON BLEACHER SKIRT. COORDINATE HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- 17 FLEXIBLE POWER CABLE, #12/3 TYPE 'SJO', ATTACHED TO UNDERSIDE OF BLEACHER SEATING AND PROVIDED WITH BRIDALS AND SERVICE LOOPS TO ALLOW CABLEING TO MOVE WITH THE BLEACHERS. CABLE TO ALLOW FULL MOVEMENT OF BLEACHERS FROM FULLY CLOSED TO FULLY OPEN WITHOUT BINDING.
- 18 FLEXIBLE VOICE CABLE, SEE SECTION 16742, ATTACHED TO UNDERSIDE OF BLEACHER SEATING AND PROVIDED WITH BRIDALS AND SERVICE LOOPS TO ALLOW CABLEING TO MOVE WITH THE BLEACHERS. CABLE TO ALLOW FULL MOVEMENT OF BLEACHERS FROM FULLY CLOSED TO FULLY OPEN WITHOUT BINDING.
- 19 1" C TO NEAREST CORRIDOR CABLE TRAY FOR VOICE/DATA CABLEING.
- 20 GYMNASIUM SCOREBOARDS CONTROLS JUNCTION BOX. SEE GYMNASIUM 307 SCOREBOARD SYSTEM DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS.

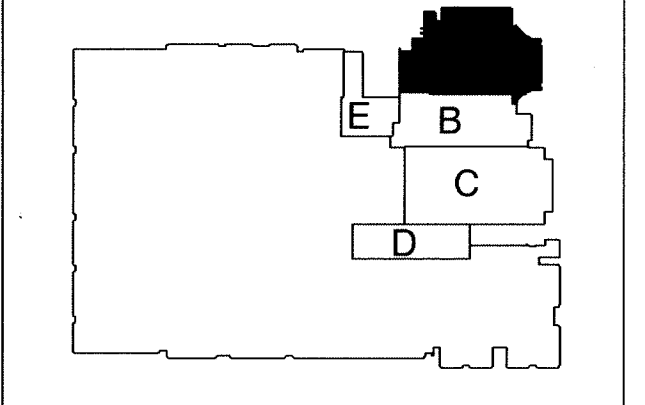
- 21 MOUNT DISPLAY CASE RECEPTACLE AT +12" TO THE BOTTOM OF THE DEVICE FROM THE BOTTOM OF THE DISPLAY CASE.
- 22 UNDER ALTERNATE BID PROVIDE A JUNCTION BOX WITH COVERPLATE FOR ELECTRONIC FLUSH VALVE TRANSFORMER. VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.
- 23 UNDER ALTERNATE BID PROVIDE A DUPLEX RECEPTACLE UNDER THE SINK FOR ELECTRONIC WATER VALVE TRANSFORMER. VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.
- 24 INSTALL RECEPTACLE AT +12" ABOVE THE ELEVATOR PIT FLOOR.
- 25 SCOREBOARD TIME DISPLAY JUNCTION BOX. SEE GYMNASIUM 307 SCOREBOARD SYSTEM DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS.
- 26 VFD FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- 27 TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- 28 IN THIS ROOM REUSE EXISTING OUTLET BOXES FOR NEW WIRING DEVICES.
- 29 REUSE EXISTING OUTLET BOX FOR NEW WIRING DEVICE.
- 30 GYMNASIUM SCOREBOARDS JUNCTION BOX (24"x24"x4"). SEE GYMNASIUM 307 SCOREBOARD DIAGRAM ON SHEET E603.
- 31 SECURE THE FLOOR BOX TO THE EXISTING CONCRETE FLOOR LOCATED BELOW THE BASKETBALL WOOD FLOOR. LOCATE FLOOR BOX BELOW THE WOOD FLOOR ACCESS PANEL. COORDINATE LOCATION WITH FLOOR INSTALLER.
- 32 INSTALL IN TOP REAR OF CABINET.
- 33 PROVIDE 3/4" C FROM THE TYPE "C" FLOOR BOX TO THE POWER PANEL INDICATED. SEE GYMNASIUM 307 SCOREBOARD DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS FOR THE TYPE "D" FLOOR BOX. PROVIDE 1" C FROM THE TYPE "D" FLOOR BOX TO THE TYPE "D" TELEVISION OUTLET LOCATED ABOVE THE EAST BLEACHERS. PROVIDE 1" C FROM THE TYPE "E" FLOOR BOX TO NEAREST CORRIDOR CABLE TRAY FOR VOICE/DATA/VIDEO CABLEING. PROVIDE 1" C FROM THE TYPE "E" FLOOR BOX TO ROOM SOUND SYSTEM MAIN EQUIPMENT FOR SOUND CABLEING. ALL CONDUITS ARE TO BE ROUTED ABOVE THE EXISTING CONCRETE SLAB AND BELOW THE BASKETBALL WOOD FLOOR.
- 34 POWER ASSISTED DOOR OPERATOR KEY SWITCH AT +48 INCHES.
- 35 ELECTRIFIED PANIC HARDWARE DEVICE ON POWER ASSISTED DOOR.
- 36 SURFACE MOUNTED ELECTRIC DOOR LATCH PUSHBUTTON ON BOTTOM SIDE OF RECEPTION COUNTER. PUSHBUTTON SHALL BE SECURITON #P83ER OR APPROVED EQUAL. VERIFY EXACT LOCATION WITH ARCHITECT. CONNECT PUSHBUTTON TO POWER ASSISTED DOOR OPERATOR SYSTEM FOR DOOR A-339 SO THAT ELECTRIC LATCH OF ELECTRIFIED PANIC HARDWARE DEVICE ON THE WEST-MOST DOOR LEAF OPENS WHEN BUTTON IS PUSHED. COORDINATE THIS CONNECTION WITH THE POWER ASSISTED DOOR OPERATOR SYSTEM PROVIDER.
- 37 ELECTRONIC CONTROL KEYPAD PANEL MOTORIZED BASKETBALL BACKSTOPS, VOLLEYBALL NET, AND BALCONY DIVIDER CURTAIN PROVIDED BY BACKSTOP SUPPLIER. PANEL TO BE INSTALLED BY DIVISION 16. DIVISION 16 TO PROVIDE ALL CONTROL WIRING. CONTROL CABLE SHALL BE WEST PENN #25224 18 AWG PAIR CL2P PLENUM CABLE OR EQUIVALENT.

ROOM NAME SCHEDULE

NO	NAME
1	STAIR
2	STAIR
3	STAIR
301	ATHLETIC DIRECTOR
302	CORRIDOR
303	CUSTODIAN & SOUND
304	GIRLS LOCKERS
304A	TOILET
304B	SHOWER
304C	DRYING
305	OFFICE
306	CORRIDOR
307	GYMNASIUM
308	LOBBY
309	OFFICE
309A	TOILET
309B	SHOWER
310	MUD ROOM
311	PE LOCKER
311A	TOILET
311B	SHOWER
312	DRY
312A	CUST
313	CORRIDOR
314	CUST
315	PE LOCKER
315A	TOILET
315B	SHOWER
315C	DRY
316	MUD ROOM
316A	CHASE
317	OFFICE
317A	TOILET
317B	SHOWER
318	WOMEN
319	MEN
320	VESTIBULE
320A	ALCOVE
321	STORAGE
321A	WET AREA
322	WRESTLING
322A	STORAGE
323	STORAGE
324	STORAGE
325	ELEVATOR
325A	ELEVATOR EQUIPMENT
326	LOBBY
326A	VESTIBULE
327	OFFICE
328	BOYS LOCKER
328A	TOILET
328B	SHOWER
328C	DRYING
329	OFFICIALS
329A	TOILET
329B	SHOWER
330	ASSISTANT ATHLETIC DIRECTOR
331	RECEPTION
332	STORAGE
333	WAITING
334	VESTIBULE
335	CORRIDOR

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

PE (6/28/10)
Project Record
Documents
Prepared by:
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PROJECT 06-612
DATE 03/19/07
COORDINATED BY MFJ
DRAWN BY NAK
CHECKED BY SBC

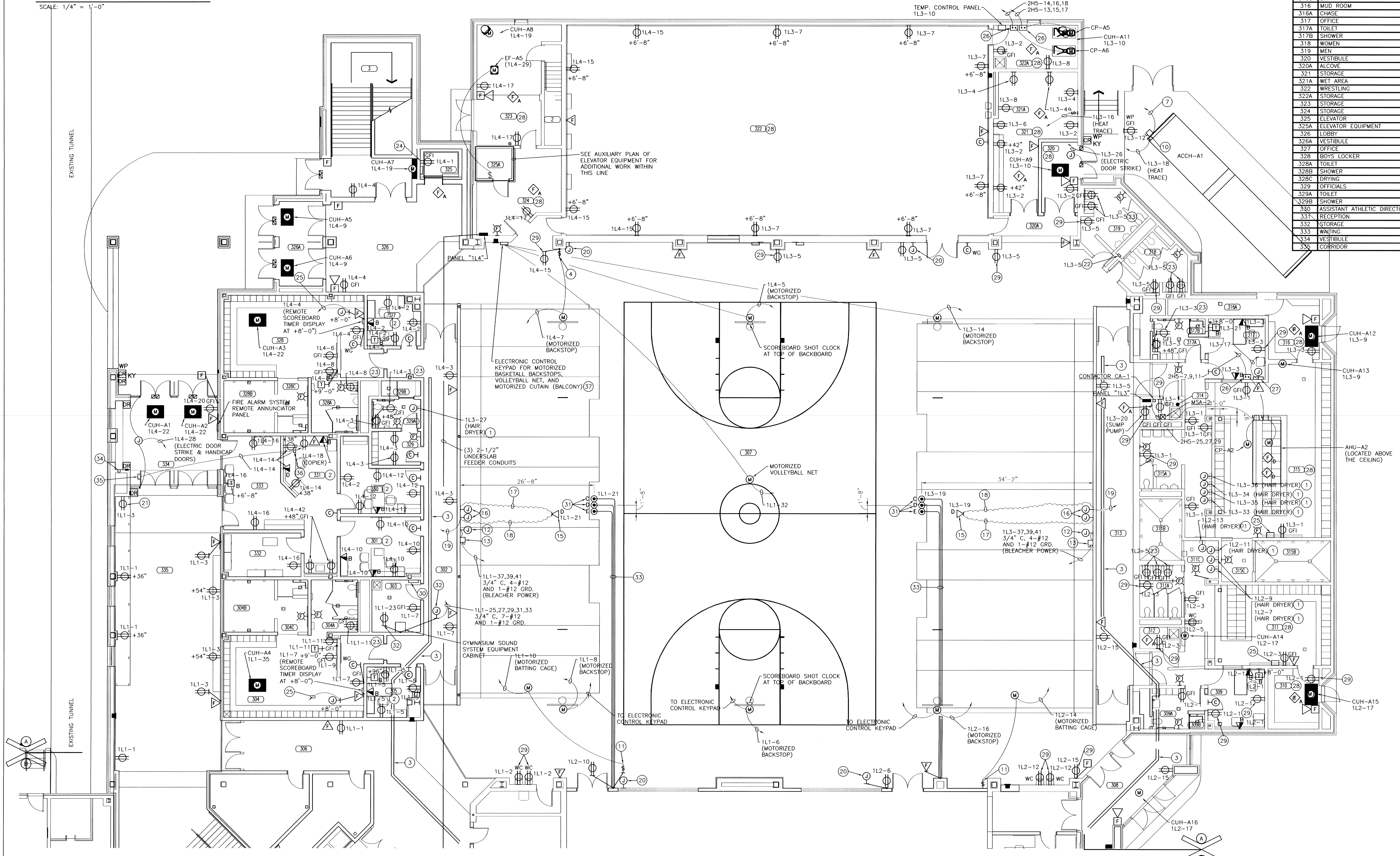
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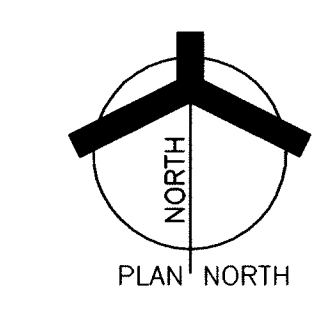
DRAWING
UNIT "A" ELECTRICAL FIRST FLOOR POWER PLAN

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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A EP101



UNIT "A" ELECTRICAL FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"



AS BUILT
07/21/10

PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

- IN THIS ROOM REUSE EXISTING OUTLET BOXES FOR NEW WIRING DEVICES.
- CONTROLLER FOR MOTORIZED BACKSTOP, PROVIDED BY BACKSTOP SUPPLIER, TO BE INSTALLED BY DIVISION 16. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- 12"x12"x6" NEMA-1 JUNCTION BOX. COORDINATE MOUNTING HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- 3 PHASE, 30 AMP, 208 VOLT NON-FUSED DISCONNECT SWITCH IN A NEMA-1 ENCLOSURE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH BLEACHER MANUFACTURER AND SECTION 12760.
- VFD FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- CONTROLLER FOR MOTORIZED CURTAIN, PROVIDED BY CURTAIN SUPPLIER, TO BE INSTALLED BY DIVISION 16. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- FURNISHED AND INSTALL AS INDICATED IN SPECIFICATION SECTION 16734.

ROOM NAME SCHEDULE

NO	NAME
2	STAIR
3	STAIR
325	ELEVATOR
394	BALCONY
395	MECHANICAL
396	MECHANICAL
397	BALCONY
397A	ALCOVE



GIBRALTAR

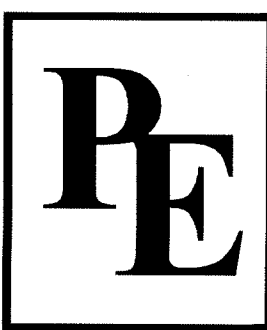
DESIGN

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PROJECT

LAWRENCE
CENTRAL
HIGH
SCHOOL

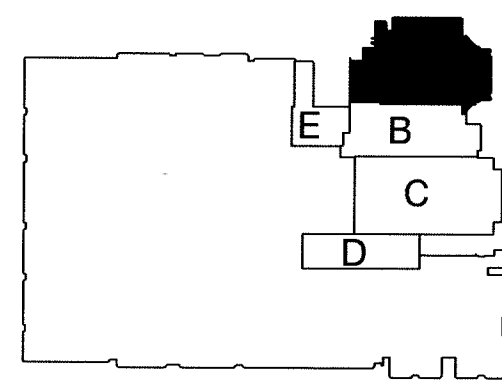
RENOVATIONS, ADDITIONS
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(6/28/10)
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PROJECT

06-612

DATE

03/19/07

COORDINATED BY

FJB

DRAWN BY

NAK

CHECKED BY

MFJ

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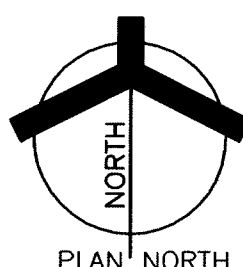
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UNIT "A" ELECTRICAL SECOND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"



AS BUILT
07/21/10

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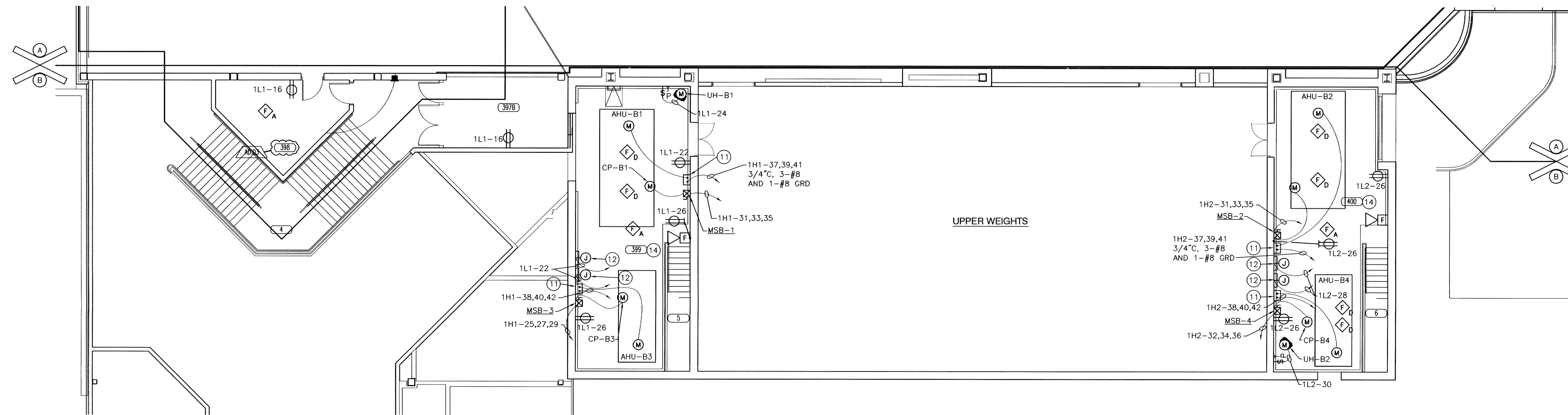
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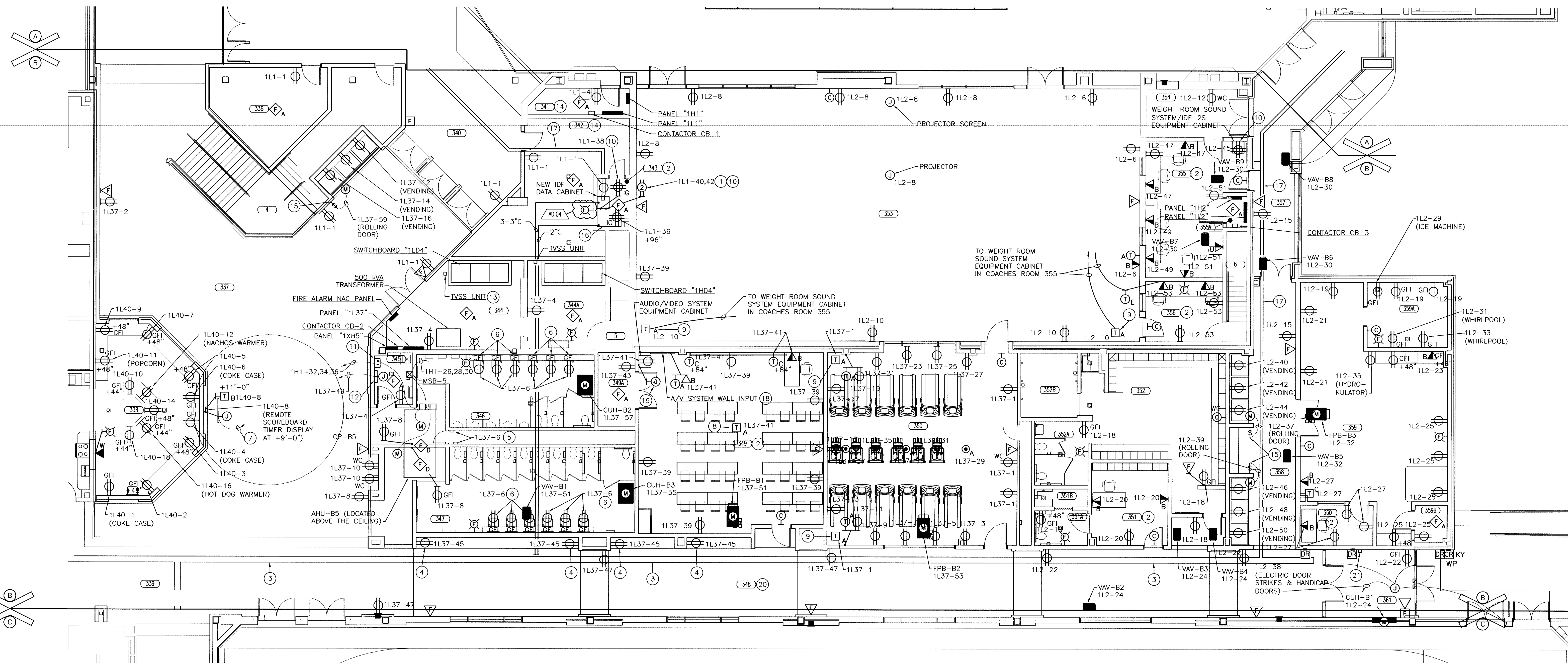
PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)

- 1 3/4" C, 2-#10 AND 1-#10 GRD.
- 2 THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE APPROPRIATE PANEL SHALL BE #10 AWG.
- 3 12" WIDE X 3" DEEP CABLE TRAY
- 4 MOUNT DISPLAY CASE RECEPTACLE AT +12" TO THE BOTTOM OF THE DEVICE FROM THE BOTTOM OF THE DISPLAY CASE.
- 5 UNDER ALTERNATE BID PROVIDE A JUNCTION BOX WITH COVERPLATE FOR ELECTRONIC FLUSH VALVE TRANSFORMER. VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.
- 6 UNDER ALTERNATE BID PROVIDE A DUPLEX RECEPTACLE UNDER THE SINK FOR ELECTRONIC WATER VALVE TRANSFORMER. VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS AND ROUGH-IN LOCATION WITH DIVISION 15.
- 7 SCOREBOARD TIME DISPLAY JUNCTION BOX. SEE GYMNASIUM 307 SCOREBOARD SYSTEM DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS.
- 8 CEILING MOUNTED OUTLETS FOR CEILING MOUNTED VIDEO PROJECTOR SEE SPECIFICATION SECTION 16783.
- 9 CEILING MOUNTED OUTLETS FOR CEILING MOUNTED TELEVISION MONITOR SEE SPECIFICATION SECTION 16783.
- 10 INSTALL IN TOP REAR OF CABINET.
- 11 VFD FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- 12 TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
- 13 TVSS UNIT TO BE MOUNTED ON STRUCTURAL CHANNELS.
- 14 IN THIS ROOM REUSE EXISTING OUTLET BOXES FOR NEW WIRING DEVICES.
- 15 CONTROLLER FOR ROLLING DOOR, PROVIDED BY ROLLING DOOR SUPPLIER, TO BE INSTALLED BY DIVISION 16. DIVISION 16 TO PROVIDE ALL CONTROL WIRING.
- 16 3/4"x4'-0"x8'-0" COMMUNICATION PLYWOOD BACKBOARD FOR TELEVISION SYSTEM EQUIPMENT. PROVIDE 2" CONDUIT FROM TOP OF BACKBOARD TO CABLE TRAY IN CORRIDOR 348.
- 17 6" WIDE X 3" DEEP CABLE TRAY
- 18 CLASSROOM 349 AUDIO/VIDEO SYSTEM WALL INPUT. PROVIDE TWO-GANG BOX WITH CONDUIT SYSTEM JUNCTION BOX BEHIND SYSTEM EQUIPMENT CABINET IN THIS ROOM.
- 19 CLASSROOM AUDIO/VIDEO SYSTEM JUNCTION BOX (TWO-GANG). PROVIDE 1" CONDUIT FROM BOX TO POINT ABOVE ROOM CEILING FOR CABLEING.
- 20 PROVIDE ONE OR MORE DATA CABLEING CONSOLIDATION POINTS TO SERVE THE DATA OUTLETS IN THE FLOOR OUTLETS IN MULTI-PURPOSE GYMNASIUM 363. PROVIDE QUANTITY OF CONSOLIDATION POINTS AS REQUIRED AND LOCATE THEM ABOVE THE CEILING OF CORRIDOR 348.
- 21 POWER ASSISTED DOOR OPERATOR KEY SWITCH AT +48 INCHES.



UNIT "B" ELECTRICAL SECOND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"



UNIT "B" ELECTRICAL FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"



ROOM NAME SCHEDULE

NO	NAME
4	STAIR
5	STAIR
6	STAIR
336	STORAGE
337	CORRIDOR
338	CONCESSION
338A	PREPARATION
339	CORRIDOR
340	LOBBY
341	CUSTODIAN
342	STORAGE
343	STORAGE
344	ELECTRICAL
344A	ELECTRICAL
345	CUST
346	MEN
347	WOMEN
348	CORRIDOR
349	CLASSROOM
349A	STORAGE
350	CARDIO
351	OFFICE
351A	TOILET
351B	SHOWER
352	LOCKER ROOM
352A	TOILET
352B	SHOWER
353	WEIGHTS
354	ALCOVE
355	COACHES
355A	ELECTRICAL
356	OFFICE
357	CORRIDOR
358	CORRIDOR
359	TRAINER
359A	WHIRLPOOL
359B	STORAGE
360	OFFICE
361	VESTIBULE
376	STORAGE
376	STORAGE
397B	ALCOVE
398	STORAGE
399	MECHANICAL
400	MECHANICAL



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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL
RENOVATIONS, ADDITIONS AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP



(6/28/10)
Project Record Documents
Prepared by:

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PROJECT 06-612
DATE 03/19/07
COORDINATED BY FJB
DRAWN BY NAK
CHECKED BY MFJ

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DRAWING
UNIT "B" ELECTRICAL FIRST AND SECOND FLOOR POWER PLANS

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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07/21/10

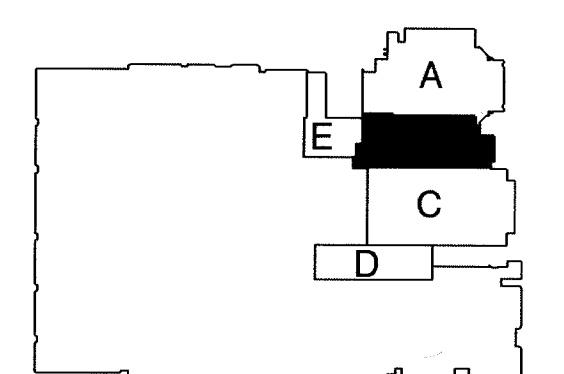
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B EP103

ROOM NAME SCHEDULE	
NO	NAME
4	STAIR
5	STAIR
6	STAIR
336	STORAGE
337	CORRIDOR
338	CONCESSION
338A	PREPARATION
339	CORRIDOR
340	LOBBY
341	CUSTODIAN
342	STORAGE
343	STORAGE
344	ELECTRICAL
344A	ELECTRICAL
345	CUST
346	MEN
347	WOMEN
348	CORRIDOR
349	CLASSROOM
349A	STORAGE
350	CARDIO
351	OFFICE
351A	TOILET
351B	SHOWER
352	LOCKER ROOM
352A	TOILET
352B	SHOWER
353	WEIGHTS
354	ALCOVE
355	COACHES
355A	ELECTRICAL
356	OFFICE
357	CORRIDOR
358	CORRIDOR
359	TRAINER
359A	WHIRLPOOL
359B	STORAGE
360	OFFICE
361	VESTIBULE
376	STORAGE
376	STORAGE
376B	ALCOVE
398	STORAGE
399	MECHANICAL
400	MECHANICAL



PROJECT
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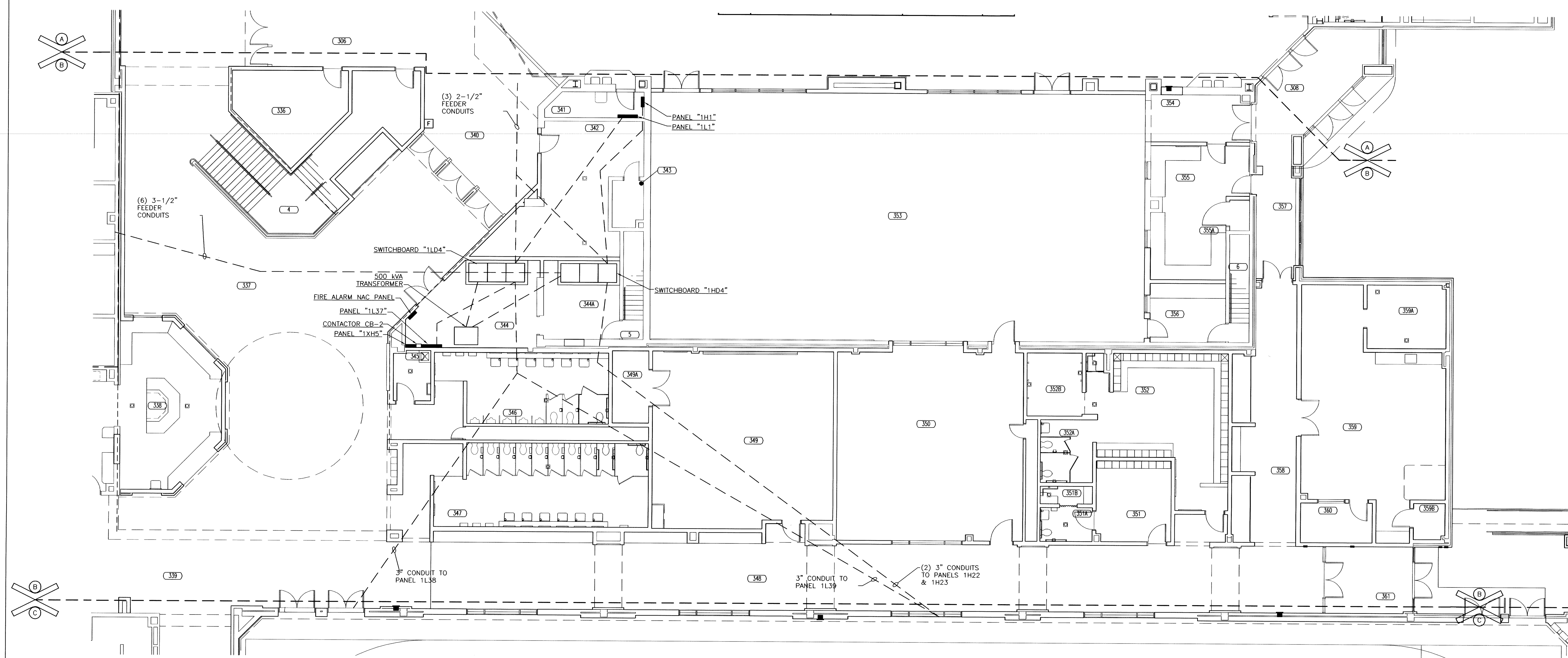
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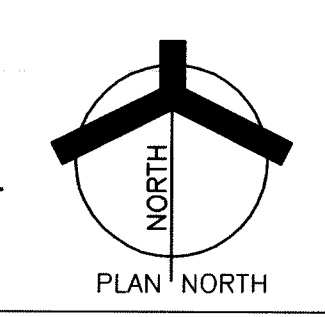
DRAWING
UNIT "B" ELECTRICAL FIRST FLOOR UNDERGROUND FEEDER ROUTING PLAN

PROJECT
 LAWRENCE CENTRAL HIGH SCHOOL

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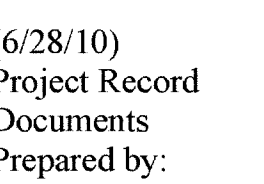
UNIT "B" ELECTRICAL FIRST FLOOR UNDERGROUND FEEDER ROUTING PLAN
 SCALE: 1/8" = 1'-0"



AS BUILT
 07/21/10

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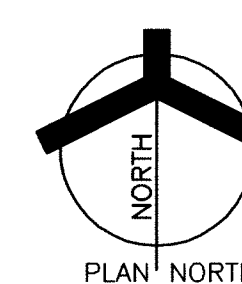
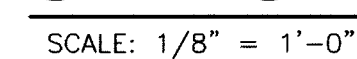
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PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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C	EP104

12) CONTROLLED BY ONE (1) PROGRAMMABLE CONTROLLER PANEL (PANEL TO BE FURNISHED BY OWNER). VERIFY HEIGHT AND LOCATION OF CONTROLLER PANEL WITH ARCHITECT.



AS BUILT
07/21/10

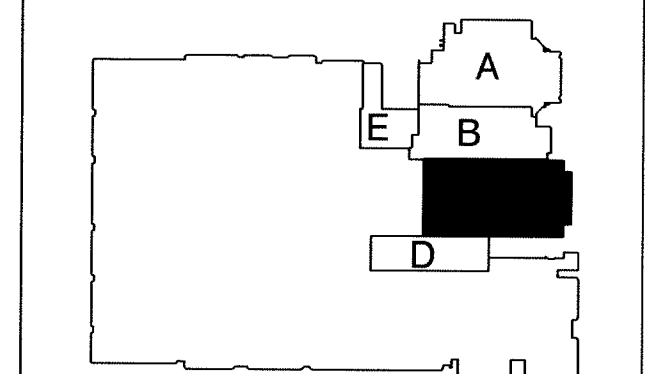
- PLAN NOTES:**
(THESE NOTES APPLY TO THIS SHEET ONLY)
- 3/4" C, 2-#10 AND 1-#10 GRD.
 - VFD FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
 - TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.
 - FURNISHED AND INSTALL AS INDICATED IN SPECIFICATION SECTION 16734.
 - SEE MULTI-PURPOSE GYMNASIUM 363 SCOREBOARD SYSTEMS DIAGRAM ON SHEET E603 FOR CONDUIT AND CABLE REQUIREMENTS.
 - INSTALL SCOREBOARD ON BASKETBALL BACKSTOP PROVIDED UNDER SECTION 11480 AND AS INDICATED ON SHEET AE702.



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PROJECT
**LAWRENCE
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HIGH
SCHOOL**
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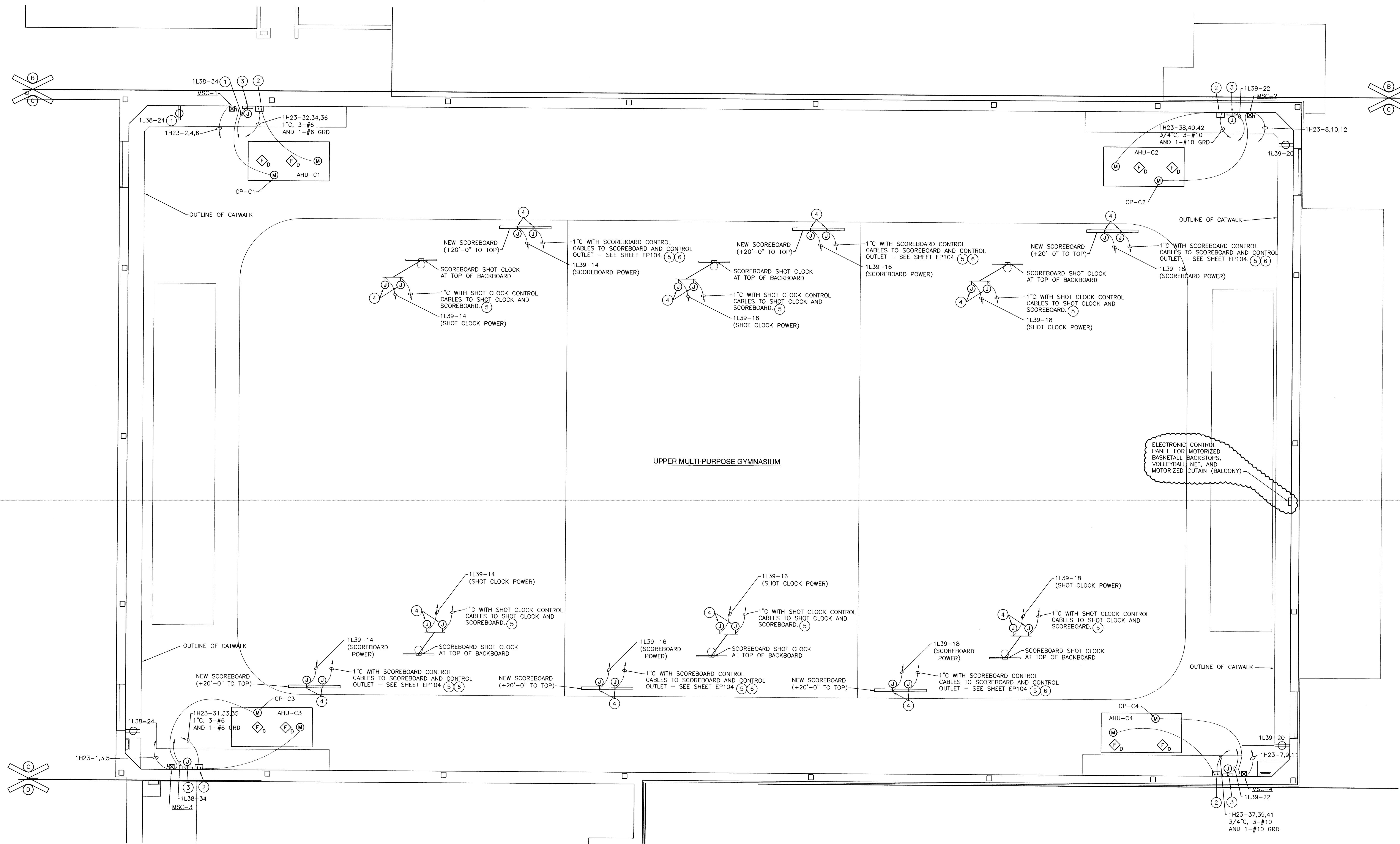
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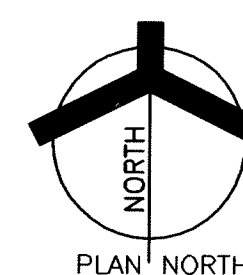
DRAWING
**UNIT "C" ELECTRICAL
SECOND FLOOR
POWER PLAN**

PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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C EP105



UNIT "C" ELECTRICAL SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"



AS BUILT
07/21/10

CEILING MOUNTED OUTLETS FOR CEILING MOUNTED VIDEO PROJECTOR SEE SPECIFICATION SECTION 16783.	CEILING MOUNTED OUTLETS FOR CEILING MOUNTED TELEVISION MONITOR SEE SPECIFICATION SECTION 16783.
VIDEO FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.	THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE APPROPRIATE PANEL SHALL BE #10 AWG.
TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY DIVISION 15 CONTRACTOR. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL POWER, WIRING, AND CONDUIT.	
OVERHEAD DOOR CONTROLLER PROVIDED BY OVERHEAD DOOR MANUFACTURER. DIVISION 16 SHALL INSTALL THE CONTROLLER AND PROVIDE ALL CONTROL WIRING.	
TOP OF DISCONNECT IS TO BE AT +7'2" ABOVE THE GYMNASIUM PIT FLOOR.	
INSTALL IN TOP REAR OF CABINET.	

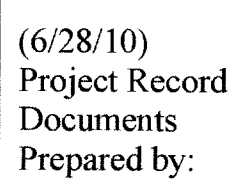


PROJECT

**LAWRENCE
CENTRAL
HIGH
SCHOOL**

RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



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PROJECT 06-612	
DATE 03/19/07	
COORDINATED BY FJB	
DRAWN BY NAK	
CHECKED BY MFJ	

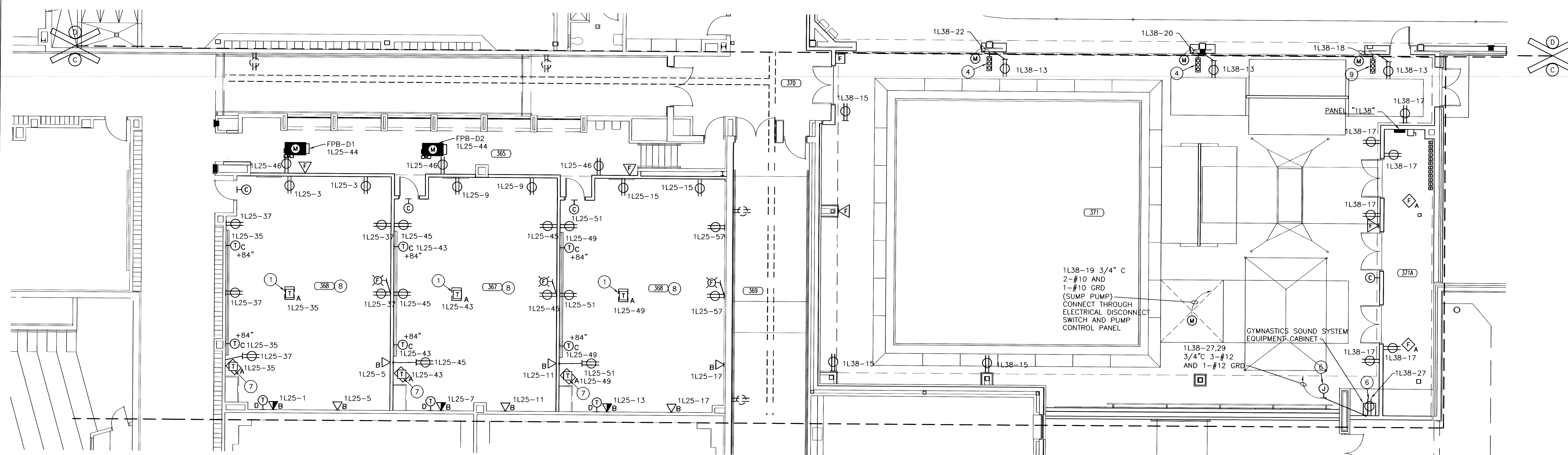
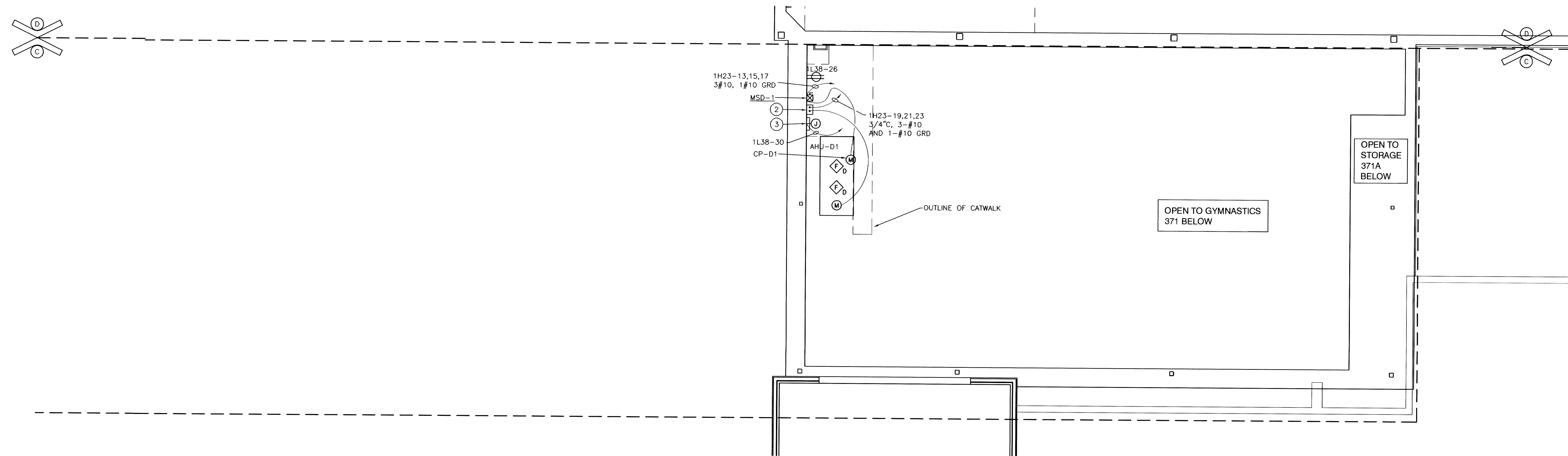
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REVISIONS		
MARK	DATE	ISSUED FOR
	07/21/10	AS BUILT DRAWINGS

DRAWING
UNIT "D" ELECTRICAL
FIRST FLOOR AND
SECOND FLOOR
POWER PLANS

PROJECT	LAWRENCE CENTRAL HIGH SCHOOL
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D	EP106



AS BUILT
07/21/10

(THESE NOTES APPLY TO THIS SHEET ONLY)

- ① PROVIDE A DUPLEX RECEPTACLE IN THE UPPER CABINET WORK FOR THE MICROWAVE OVEN. COORDINATE INSTALLATION WITH THE CASEWORK INSTALLER.
- ② DISCONNECT SWITCH IS TO BE LOCATED IN LOWER CABINET.
- ③ ROUTE NEW CONDUIT BELOW GRADE AND UNDERFLOOR TO NEW PANEL "MDP3". SEE SHEET AE108 FOR EXISTING FLOOR SLAB REMOVAL AND REPLACEMENT IN ELECTRICAL ROOM 382.

ROOM NAME SCHEDULE	
NO	NAME
375	RECEIVING
376	STORAGE
377	TELECOM
378	OFFICE
379	STORAGE
380	SPRINKLER
381	COMPACTOR
382	ELECTRICAL
383	LOUNGE
383A	TOILET
383B	TOILET
384	LOUNGE
384A	TOILET
385	OFFICE
386	REHEARSAL
387	PLATFORM
388	STORAGE
389	UNIFORM
390	UNIFORM
391	PERCUSSION
392	LARGE INSTRUMENT
393	ENSEMBLE



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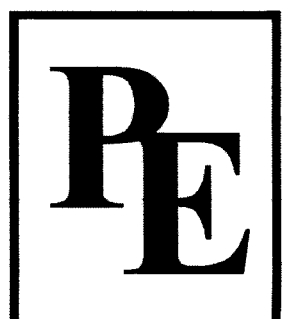
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PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

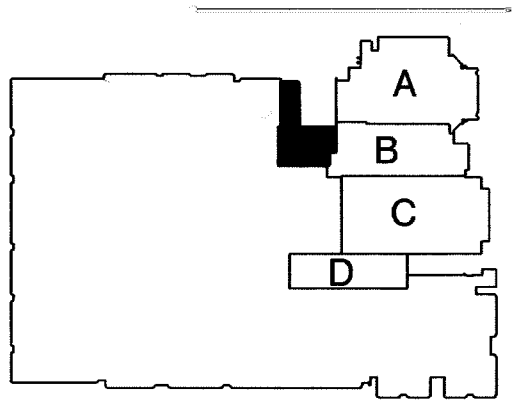
RENOVATIONS, ADDITIONS
AND RELATED WORK

MSD OF LAWRENCE TOWNSHIP



(6/28/10)
Project Record
Documents
Prepared by:

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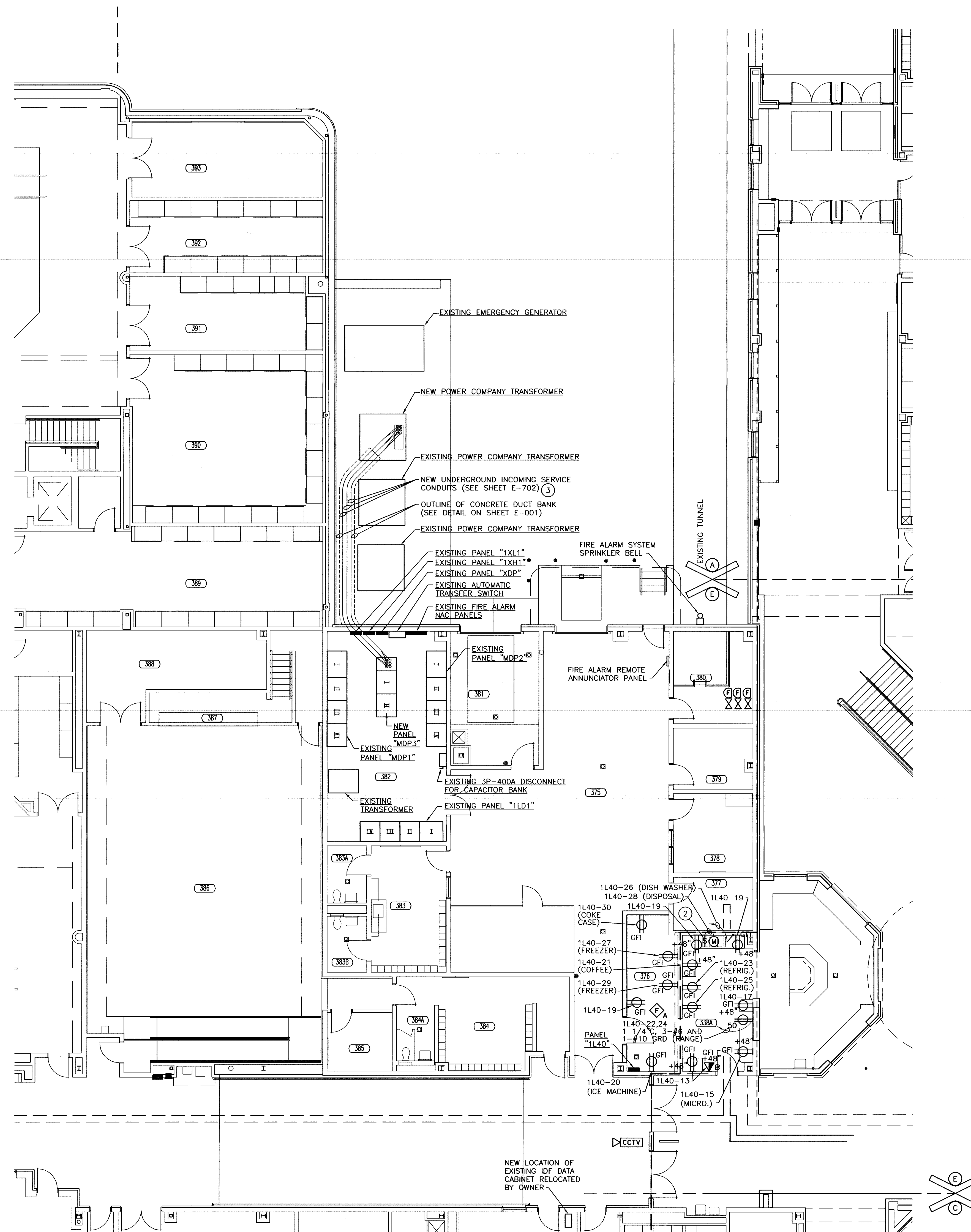
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DRAWING
UNIT "E" ELECTRICAL
FIRST FLOOR
POWER PLAN

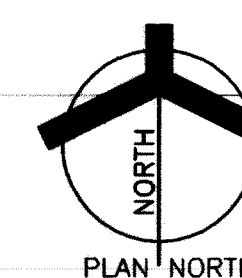
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

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E	EP107



UNIT "E" ELECTRICAL FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"



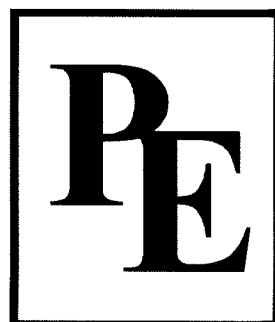
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RALTAR DESIGN E	SHEET EP107
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PROJECT
**LAWRENCE
CENTRAL
HIGH
SCHOOL**
RENOVATIONS, ADDITIONS
AND RELATED WORK
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PROJECT
06-612
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03/19/07
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NAK
CHECKED BY
MFJ

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DRAWING
**OVERALL ELECTRICAL
FIRST FLOOR
AUXILIARY PLAN**

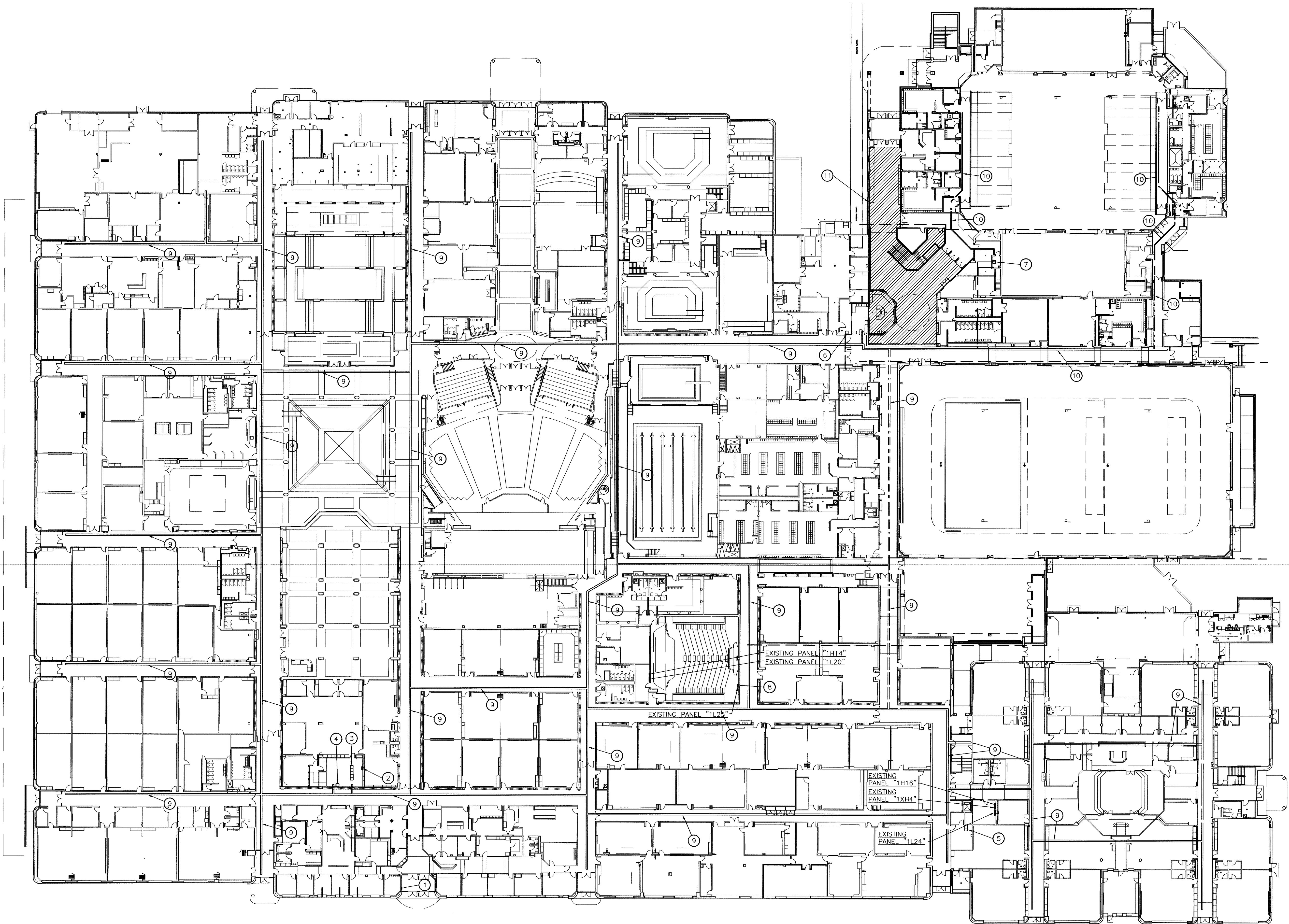
PROJECT
LAWRENCE CENTRAL HIGH SCHOOL

AS BUILT
07/21/10

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A-E EP108

- PLAN NOTES:**
(THESE NOTES APPLY TO THIS SHEET ONLY)
- EXISTING NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL TO REMAIN.
 - EXISTING MAIN FIRE ALARM CONTROL PANEL.
 - EXISTING LAN DATA SYSTEM MDF EQUIPMENT CABINETS.
 - EXISTING SCHOOL PAGING SOUND SYSTEM MAIN EQUIPMENT CABINET.
 - EXISTING LAN DATA SYSTEM IDF-P EQUIPMENT CABINETS.
 - EXISTING LAN DATA SYSTEM IDF-N EQUIPMENT CABINET.
 - NEW LAN DATA SYSTEM IDF-S EQUIPMENT CABINET.
 - EXISTING PANEL "1L25".
 - EXISTING CABLE TRAY ABOVE CEILING.
 - NEW CABLE TRAY ABOVE CEILING.

- FEEDER CONDUITS ARE NOT TO BE ROUTED IN OR THROUGH THIS AREA. BRANCH CONDUITS NOT ASSOCIATED WITH THE ELECTRICAL DEVICES IN THIS AREA ARE NOT TO BE ROUTED IN OR THROUGH THIS AREA. FLEXIBLE CONDUIT OR RACEWAY IS NOT TO BE USED IN THIS AREA. THE BRANCH CONDUITS SERVING ELECTRICAL DEVICES IN THIS AREA ARE TO BE ROUTED UP TIGHT TO ROOF DECK OR TOP OF JOIST. EXPOSED CABLING WITHOUT RACEWAY IS NOT PERMITTED IN THIS AREA.



OVERALL ELECTRICAL FIRST FLOOR AUXILIARY PLAN

SCALE: 1/32" = 1'-0"

