LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER/CATALOG NO.	LAMPS NO.	LAMPS TYPE	MOUNTING	REMARKS
1	DAY-BRITE 2PFG328-PMW-UNV-1/3-EBIOR	3	F28T5	RECESSED	
2	DAY-BRITE 2PFG328-PMW-UNV-1/21-EBIOR	3	F28T5	RECESSED	DUAL BALLAST
3	DAY-BRITE 2TG328-12-UNV-1/3-EBIOR	3	F28T5	RECESSED	
4	DAY-BRITE 2PFG314-PMW-UNV-1/3-EBIOR	3	F14T5	RECESSED	
5	DAY-BRITE 2PFG314-PMW-UNV-1/21-EBIOR	3	F14T5	RECESSED	DUAL BALLAST
6	DAY-BRITE 2TG314-12-UNV-1/3-EBIOR	3	F14T5	RECESSED	
7	DAY-BRITE HDS228-UNV-1/2-EBIOR	2	F28T5	SURFACE	
8	DAY-BRITE HDS128-UNV-1/1-EBIOR	1	F28T5	WALL ABOVE DOOR	
9	DAY-BRITE TIA228-UNV-1/4-EBIOR-FKR-126	4	F28T5	CHAIN HUNG AS HIGH AS POSSIBLE	
10	ACCESS LIGHTING 62312-BS/FST	2	T3 R7S 78mm	WALL ABOVE MIRROR	PROVIDE 100W EQUIVALENT 3K LED LAMPS
11	HINKLEY LIGHTING 5925	5	T4 G9	WALL ABOVE MIRROR	PROVIDE 60W EQUIVALENT 3K LED LAMPS
12	JUNO IC22LEDG3-3K-U-24W-WH	600 LUMEN LED		RECESSED	NON-DIMMED
12A	JUNO IC22LEDG3-3K-1-24W-WH	600 LUMEN LED		RECESSED	DIMMED
13	METALARTE LANDIS 13523101031	1	18W G24Q-2	WALL	
14	JUNO IC49N-449-SC	1	50W MR16 EXN	RECESSED	USHIO 10,000 HOUR ULTRALINE LAMPS
15	POSSINI EURO DESIGN 13 1/4-INCH-H POCKET WALL SCONCE	1	60W A19	WALL	PROVIDE 60W EQUIVALENT 3K CFL LAMP
16	BRUCK 3T0GES-212-SV (NOTE 1) WITH 350-420-MC-3-FL-ECO5V	15W LED		SURFACE	NOTE 1
17	WINONA 662-F-120-OA-BAL	2	CFT13W 2GX7	WALL	
18	WINONA 3707-12-F/MH100-120-XX	4 1	FT40W/2G11 100W MET.HAL.	STEM MOUNT	
19	KALCO OPACUS BUBBLE GLASS 36 INCH-W CHANDELIER	5	100W A19	CHAIN HUNG	PROVIDE 100W EQUIVALENT 3K CFL LAMP
20	CREATIVE SYSTEMS LIGHTING SS1021-SA	5	XENON FESTOON	WALL	PROVIDE 10W EQUIVALENT 3K LED LAMPS
21	BRUCK 150109 (NOTE 2) HIGH-LINE CABLE SYSTEM WITH 150206MC FIXTURES WITH 24035MC TRANSFORMERS	1	50W MR16 EXN	RECESSED	USHIO 10,000 HOUR ULTRALINE LAMPS
22	CREATIVE SYSTEMS LIGHTING SS3000-SM	6W LED		STEP LIGHT	
23	AXIS BMWD-S-4-NL4-T5-2-W-UNV-ERS	2	F28T5	WALL	
24	AXIS WA-24-VL-T5-2-W-UNV-ERS-SM	2	F28T5	SURFACE	
25	STONCO VWXL26HFL-120	1	26W GX24	WALL IN PIT	
26	POSSINI EURO OUTDOOR LED R1825	4W LED		WALL	
27	GARDCO 121-3-75LA-WW-UNV-NP-DL	72W LED		WALL 14'-0" AFF	
28	STONCO (TWIN) 3800 W/ MOUNTING PLATE	2	150W PAR38	WALL ABOVE ROOF	PROVIDE PAR38 EQUVALENT 3K CFL LAMP
	CHLORIDE 46LIR	FURNISHED W/FIXTURE		WALL ABOVE DOOR	SINGLE FACE
	CHLORIDE 46LIR	FURNISHED W/FIXTURE		SURFACE	SINGLE FACE
	CHLORIDE 46L2R	FURNISHED W/FIXTURE		SURFACE	DOUBLE FACE
NP	CHLORIDE SLR20SBA	FURNISHED W/FIXTURE		WALL ABOVE DOOR	SINGLE FACE SELF LUMINOUS

SCHEDULE NOTES

1. PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE TRACK INSTALLATION IN LENGTH AND CONFIGURATION SHOWN ON THE PLANS, QUANTITY OF FIXTURES SHALL BE AS SHOWN.
2. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE CABLE LIGHT INSTALLATION IN LENGTHS AND CONFIGURATIONS AS SHOWN ON THE PLANS, SUBMIT COMPLETE SHOP DRAWING OF PROPOSED SYSTEM WITH ALL REQUIRED DETAILS AND INSTALLATION INSTRUCTIONS. PROVIDE QUANTITY OF FIXTURES SHOWN.
3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. ANY CRITICAL DIMENSIONS OF FIXTURE LOCATIONS WILL BE FURNISHED BY THE ARCHITECT.
4. WHERE FIXTURE IS AVAILABLE IN MUTIPLE FINISHES, THE ARCHITECT WILL MAKE FINAL SELECTIONS, SUBMIT COLOR CHARTS WITH FIXTURES FOR CONSIDERATIONS.
5. ALTERNATE MANUFACTURERS: COOPER, HUBBELL, LITHONIA OR LAMAR.

SYMBOLS LIST

- A-1 — OUTLET FOR CEILING OR WALL MOUNTED FLUORESCENT LIGHTING FIXTURE WITH CIRCUIT NUMBER
- A-1 — OUTLET FOR CEILING OR WALL MOUNTED LED, INCANDESCENT, COMPACT FLUORESCENT OR HID LIGHTING FIXTURE WITH CIRCUIT NUMBER
- A-1 — OUTLET FOR CEILING MOUNTED WALLWASHER LIGHTING FIXTURE WITH CIRCUIT NUMBER
- A-1 — OUTLET FOR CEILING OR WALL MOUNTED UNSWITCHED EGRESS FLUORESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT WITH CIRCUIT NUMBER
- A-1 — OUTLET FOR CEILING OR WALL MOUNTED EMERGENCY EGRESS LED OR COMPACT FLUORESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT WITH CIRCUIT NUMBER
- A-1 — OUTLET FOR CEILING OR WALL MOUNTED EXIT LIGHTING FIXTURE ON EMERGENCY CIRCUIT WITH CIRCUIT NUMBER
- A-1 — CEILING MOUNTED TRACK LIGHTING FIXTURE WITH CIRCUIT NUMBER
- 1 — LIGHTING FIXTURE TYPE SEE SCHEDULE
- S — SINGLE POLE WALL SWITCH AT 48" AFF
- S3 — THREE-WAY WALL SWITCH AT 48" AFF
- S4 — FOUR-WAY WALL SWITCH AT 48" AFF
- A-1 — GENERAL PURPOSE SINGLEPLEX RECEPTACLE AT 18" AFF WITH CIRCUIT NUMBER
- A-1 — GENERAL PURPOSE DUPLEX RECEPTACLE AT 18" AFF, WITH CIRCUIT NUMBER
- A-1 — GENERAL PURPOSE DUPLEX RECEPTACLE AT 44" AFF, WITH CIRCUIT NUMBER
- GFCI A-1 — GROUND FAULT CIRCUIT INTERRUPTER AT 18" AFF, WITH CIRCUIT NUMBER
- GFCI A-1 — GROUND FAULT CIRCUIT INTERRUPTER AT 44" AFF, WITH CIRCUIT NUMBER
- GDO A-1 — OUTLET IN CEILING FOR GARGE DOOR OPENER, WITH CIRCUIT NUMBER
- EWC A-1 — GFI OUTLET FOR ELECTRIC WATER COOLER COORDINATE LOCATION WITH PLUMBING ROUGH-IN DRAWINGS, WITH CIRCUIT NUMBER
- HWD A-1 — GFI OUTLET FOR HOT WATER DISPENSER HEIGHT TO SUIT APPLIANCE SERVED WITH CIRCUIT NUMBER
- UC IM A-1 — OUTLET FOR UNDERCOUNTER ICE MAKER HEIGHT TO SUIT APPLIANCE SERVED WITH CIRCUIT NUMBER
- UC REF. A-1 — OUTLET FOR UNDERCOUNTER REFRIGERATOR HEIGHT TO SUIT APPLIANCE SERVED WITH CIRCUIT NUMBER
- REF. A-1 — OUTLET FOR REFRIGERATOR HEIGHT TO SUIT APPLIANCE SERVED WITH CIRCUIT NUMBER
- DISP. A-1 — SWITCHED OUTLET FOR DISPOSER HEIGHT TO SUIT APPLIANCE SERVED WITH CIRCUIT NUMBER
- A-1 — FLUSH FLOOR OUTLET WITH QUADRAPLEX RECEPTACLE WITH BRASS COVERPLATE DUAL SERVICE TYPE WITH LOW VOLTAGE CIRCUIT NUMBER AS NOTED
- FLUSH FLOOR OUTLET FOR LOW VOLTAGE CABLE (DATA, TELEPHONE OR TELEVISION) DUAL SERVICE TYPE WITH POWER SEE PLAN FOR CONDUIT ROUGH-IN
- SS A-1 — SINGLE SERVICE FLUSH FLOOR OUTLET WITH DUPLEX RECEPTACLE AND BRASS COVERPLATE, CIRCUIT NUMBER AS NOTED
- J — JUNCTION BOX AT 18" AFF OR AT ASSOCIATED PIECE OF EQUIPMENT
- OUTLET FOR LOW VOLTAGE CABLE (DATA, TELEPHONE OR TELEVISION) AT 18" AFF WITH A 3/4" EC STUBBED INTO ACCESSIBLE CEILING SPACE
- OUTLET FOR LOW VOLTAGE CABLE (DATA, TELEPHONE OR TELEVISION) AT 44" AFF WITH A 3/4" EC STUBBED INTO ACCESSIBLE CEILING SPACE
- A-1 V — DUPLEX RECEPTACLE FOR TELEVISION 12" BELOW CEILING, WITH CIRCUIT NUMBER
- TV — OUTLET FOR TELEVISION CABLE 12" BELOW CEILING WITH A 1.25" EC STUBBED INTO CEILING SPACE
- S — OUTLET FOR CEILING OR WALL MOUNTED SOUND SYSTEM SPEAKER
- M — FLOOR OUTLET WITH MICROPHONE JACK
- A — OUTLET FOR DURESS ALARM BUTTON, LOCATE IN CASEWORK, SEE SPECS
- CONNECTION TO DOOR SECURITY PANEL ABOVE CEILING, SEE SPECS
- WAP — CONNECTION IN CEILING FOR WIRELESS ACCESS POINT, SEE SPECS
- F — FIRE ALARM PULL STATION AT 48" AFF
- F — AUDIO/VISUAL FIRE ALARM SIGNAL DEVICE AT 6'-8" AFF
- V — VISUAL ONLY FIRE ALARM SIGNAL DEVICE AT 6'-8" AFF
- S — CEILING MOUNTED SMOKE DETECTOR
- H — CEILING MOUNTED HEAT DETECTOR
- SD — DUCT MOUNTED SMOKE DETECTOR
- SF — SPRINKLER WATER FLOW SWITCH
- ST — SPRINKLER TAMPERPROOF SWITCH
- A-1 — SAFETY SWITCH AT 48" AFF OR AT ASSOCIATED PIECE OF EQUIPMENT CIRCUIT NUMBER SHOWN WHERE APPLICABLE
- M — MOTOR OUTLET
- DB A-1 M — CONNECTION TO DISTRIBUTION BOX, 208V-1PH-15A COORDINATE WITH HVAC CIRCUIT NUMBER AS NOTED PART OF VRF HVAC SYSTEM
- AH A-1 M — CONNECTION TO AIR HANDLING UNIT, 208V-1PH-15A COORDINATE WITH HVAC CIRCUIT NUMBER AS NOTED PART OF VRF HVAC SYSTEM
- FC A-1 M — CONNECTION TO FAN COIL UNIT, 208V-1PH-15A COORDINATE WITH HVAC CIRCUIT NUMBER AS NOTED PART OF VRF HVAC SYSTEM
- A-1 CO — AIR QUALITY SENSOR (120V-1PH.) FURNISHED AND INSTALLED BY DIVISION 15 WIRED UNDER THIS DIVISION CIRCUIT NUMBER AS NOTED
- PANELBOARD
- 20 — EQUIPMENT CONNECTION DESIGNATION SEE SCHEDULE
- CIRCUIT WIRING, 2 #12 - CROSS MARKS INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO
- S — SOUND SYSTEM WIRING OR HOMERUN
- S — 1" EC UNLESS NOTED
- SA — DROP TO SWITCH SWITCH DESIGNATION AS INDICATED
- AFF — ABOVE FINISHED FLOOR
- C/EC — CONDUIT/EMPTY CONDUIT
- ATS — AUTOMATIC TRANSFER SWITCH
- DTL — DOWN TO LIGHT
- DTR — DOWN TO RECEPTACLE
- FSS/NFSS — FUSIBLE/NON-FUSIBLE SAFETY SWITCH
- UTL — UP TO LIGHT
- UTR — UP TO RECEPTACLE
- WP — WEATHERPROOF

ELECTRIC HEATER SCHEDULE

DES.	DESCRIPTION	VOLTS	PH	WATTS	MANUFACTURER/CATALOG NO.	REMARKS
ECH-1	ELECTRIC CABINET HEATER	208	1	5000	MARKEL 6333D052033B30DOF	NOTE 1
ECH-2	ELECTRIC CABINET HEATER	208	1	5000	MARKEL 6333D052033B30DOF	NOTE 1
ETH-1	ELECTRIC TOILET HEATER	120	1	1500	MARKEL E3383D-RP-TB3380-T	BUILT-IN STAT
ETH-2	ELECTRIC TOILET HEATER	120	1	1500	MARKEL E3383D-RP-TB3380-T	BUILT-IN STAT
EUH-1	ELECTRIC UNIT HEATER	208	1	5000	MARKEL HFIF51-3.3-C-A-24	NOTE 1
EUH-2	ELECTRIC UNIT HEATER	208	1	3000	MARKEL HFIF51-5.0-C-A-24	NOTE 1

SCHEDULE NOTES

1. PROVIDE REMOTE LOW VOLTAGE THERMOSTAT WITHLOCKING COVER AS SHOWN ON PLANS.
2. INSTALL HEATERS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SUSPEND UNIT HEATERS FROM STRUCTURE WITH THREADED RODS. SET THERMOSTATS AS DESIRED BY THE OWNER.
3. ALTERNATE MANUFACTURERS: Q-MARK, RAYWALL OR STELPRO.

MATHER ARCHITECTS, P.C.
373 Neff Ave, Harrisonburg, VA 22801
Phone Number: (540) 442-1400

MEI engineering, inc.
mechanical-electrical-industrial consultants
Harrisonburg, VA.
(540) 432-6272
www.MEIengineeringinc.com

Electrical Scheds. and Notes
No Scale

Proposed New City Hall
Harrisonburg, Virginia

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Date:	03/24/14
Project:	13093
File:	13093-E01
Drawn By:	WLA,RBP

E0.1

PANEL BA

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 200 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
1	20	LIGHTS	11.6	125%	1	38.5			2	100%	24.0	STAIR HEAT	30	2
1	20	LIGHTS	10.5	125%	3		37.1		4	100%	24.0	--	--	--
1	20	LIGHTS	9.1	125%	5			35.4	6	100%	24.0	GEN. STORAGE HEAT	30	2
1	20	SPARE	0	100%	7	24.0			8	100%	24.0	--	--	--
1	20	SPARE	0	100%	9		0		10	100%	0	SPARE	15	2
1	20	HOT WATER DISP.	10.0	100%	11			10.0	12	100%	0	--	--	--
1	20	SPARE	0	100%	13	5.0			14	100%	5.0	FC/AH/DB-1	15	2
1	20	GEN. BLOCK HEATER	10.0	100%	15		15.0		16	100%	5.0	--	--	--
1	20	GEN. BATT. CHARGER	10.0	100%	17			20.0	18	100%	10.0	WTR. HTR./PUMP	20	1
1	20	SPARE	0	100%	19	5.8			20	100%	5.8	BOILER PUMP	20	1
1	20	DOOR SECURITY	5.0	100%	21		10.5		22	100%	5.5	BOILER	20	1
1	20	SPARE	0	100%	23			5.8	24	100%	5.8	BOILER PUMP	20	1
3	20	PUMP	10.6	100%	25	23.9			26	125%	10.6	PUMP	20	3 (1)
--	--	--	10.6	100%	27		23.9		28	125%	10.6	--	--	--
--	--	--	10.6	100%	29			23.9	30	125%	10.6	--	--	--
1	20	SPARE	0	100%	31	0			32	125%	0	PROVISION	--	1
1	20	SPARE	0	100%	33		0		34	125%	0	PROVISION	--	1
1	20	SPARE	0	100%	35			0	36	125%	0	PROVISION	--	1
1	20	SPARE	0	100%	37	0			38	125%	0	PROVISION	--	1
1	20	SPARE	0	100%	39		0		40	125%	0	PROVISION	--	1
1	20	SPARE	0	100%	41			0	42	125%	0	PROVISION	--	1
						97.2	86.5	95.1						

SQUARE D NQOD
SEE SPECIFICATIONS

(1) LARGEST MOTOR

PANEL 2A

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 100 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
1	20	LIGHTS	13.3	125%	1	40.6			2	100%	24.0	WATER HEATER #1	30	2
1	20	LIGHTS	11.9	125%	3		38.9		4	100%	24.0	--	--	--
1	20	LIGHTS	10.3	125%	5			16.6	6	100%	3.7	FC/AH/DB-5	15	2
1	20	LIGHTS	14.1	125%	7	21.3			8	100%	3.7	--	--	--
1	20	LIGHTS	11.4	125%	9		22.0		10	100%	7.7	FC/AH/DB-6	15	2
1	20	HOT WATER DISP.	8.0	100%	11			15.7	12	100%	7.7	--	--	--
1	20	BREAK COUNTER	5.0	100%	13	5.0			14	100%	0	SPARE	20	1
1	20	BREAK COUNTER	5.0	100%	15		5.0		16	100%	0	SPARE	20	1
1	20	EWC	10.0	100%	17			15.0	18	100%	5.0	HVAC CONTROLS	20	1
1	20	DOOR SECURITY	5.0	100%	19	5.0			20	100%	0	SPARE	20	1
1	20	SPARE	5.0	100%	21		5.0		22	100%	0	SPARE	20	1
1	20	SPARE	5.0	100%	23			5.0	24	100%	0	SPARE	20	1
1	20	SPARE	5.0	100%	25	5.0			26	100%	0	SPARE	20	1
1	20	SPARE	5.0	100%	27		5.0		28	100%	0	SPARE	20	1
1	20	SPARE	5.0	100%	29			5.0	30	100%	0	SPARE	20	1
						76.9	75.9	57.3						

SQUARE D NQOD
SEE SPECIFICATIONS

PANEL BR

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 100 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
1	20	RECEPTACLES	3.0	100%	1	11.0			2	100%	8.0	VENDING	20	1
1	20	RECEPTACLES	3.0	100%	3		11.0		4	100%	8.0	VENDING	20	1
1	20	RECEPTACLES	10.5	100%	5			18.5	6	100%	8.0	VENDING	20	1
1	20	RECEPTACLES	6.0	100%	7	14.0			8	100%	8.0	DISPOSER	20	1
1	20	RECEPTACLES	6.0	100%	9		14.0		10	100%	8.0	REFRIGERATOR	20	1
1	20	RECEPTACLES	6.0	100%	11			12.3	12	100%	6.3	BREAK COUNTER	20	1
1	20	RECEPTACLES	6.0	100%	13	12.3			14	100%	6.3	BREAK COUNTER	20	1
1	20	RECEPTACLES	6.0	100%	15		12.3		16	100%	6.3	BREAK COUNTER	20	1
1	20	RECEPTACLES	6.0	100%	17			12.3	18	100%	6.3	BREAK COUNTER	20	1
1	20	RECEPTACLES	6.0	100%	19	15.0			20	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	6.0	100%	21		12.0		22	100%	6.0	DOOR OPENER	20	1
1	20	RECEPTACLES	12.0	100%	23			16.5	24	100%	4.5	RECEPTACLES	20	1
1	20	RECEPTACLES	12.0	100%	25	16.5			26	100%	4.5	RECEPTACLES	20	1
1	20	RECEPTACLES	6.0	100%	27		10.5		28	100%	4.5	RECEPTACLES	20	1
1	20	RECEPTACLES	6.0	100%	29			10.5	30	100%	4.5	RECEPTACLES	20	1
1	20	SPARE	0	100%	31	8.0			32	100%	8.0	REFRIGERATOR	20	1
1	20	SPARE	0	100%	33		8.0		34	100%	8.0	UNDERCNTR. ICE MAKER	20	1
1	20	SPARE	0	100%	35			0	36	100%	0	SPARE	20	1
1	20	SPARE	0	100%	37	0			38	100%	0	SPARE	20	1
1	20	SPARE	0	100%	39		0		40	100%	0	SPARE	20	1
1	20	SPARE	0	100%	41			0	42	100%	0	SPARE	20	1
						76.8	67.8	70.1						

SQUARE D NQOD
SEE SPECIFICATIONS

PANEL 1A

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 200 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
1	20	LIGHTS	13.0	125%	1	46.3			2	125%	24.0	WATER HEATER #1	30	2
1	20	LIGHTS	12.6	125%	3		45.8		4	125%	24.0	--	--	--
1	20	LIGHTS	10.3	125%	5			20.7	6	100%	7.8	FC/AH/DB-3	15	2
1	20	LIGHTS	6.7	125%	7	16.2			8	100%	7.8	--	--	--
1	20	LIGHTS	11.9	125%	9		25.8		10	100%	10.9	FC/AH/DB-4	15	2
1	20	LIGHTS	7.3	125%	11			20.0	12	100%	10.9	--	--	--
(1) 1	20	POLE LIGHTS	11.5	125%	13	38.4			14	100%	24.0	STAIR HEAT	30	2
(1) 1	20	POLE LIGHTS	7.7	125%	15		33.6		16	100%	24.0	--	--	--
(1) 1	20	POLE LIGHTS	7.7	125%	17			19.6	18	100%	10.0	HOT WATER DISP.	20	1
(1) 1	20	BUILDING FLOODS	7.0	100%	19	12.0			20	100%	5.0	BREAK COUNTER	20	1
1	20	MOTORIZED GATE	8.0	100%	21		13.0		22	100%	8.0	REFRIGERATOR	20	1
1	20	MOTORIZED GATE	8.0	100%	23			18.0	24	100%	10.0	EWC	20	1
1	20	DOOR SECURITY	5.0	100%	25	5.0			26	100%	0	SPARE	20	1
1	20	DOOR SECURITY	5.0	100%	27		9.4		28	125%	3.5	FLAG POLE LIGHTS	20	1 (1)
1	20	DOOR SECURITY	5.0	100%	29			17.5	30	100%	12.5	MEN'S HEAT	20	1
1	20	DOOR SECURITY	5.0	100%	31	17.5			32	100%	12.5	WOMEN'S HEAT	20	1
1	20	SPARE	5.0	100%	33		5.0		34	100%	0	SPARE	20	1
1	20	MOTORIZED GATE	8.0	100%	35			18.0	36	100%	10.0	EWC	20	1
1	20	SPARE	0	100%	37	0			38	100%	0	SPARE	20	1
1	20	SPARE	0	100%	39		0		40	100%	0	SPARE	20	1
1	20	DOOR ASSIST	5.0	100%	41			15.0	42	100%	10.0	EWC	20	1
1	20	POLE LT. RECEPT.	5.0	100%	43	5.0			44	100%	0	PROVISION	--	1
1	20	POLE LT. RECEPT.	5.0	100%	45		5.0		46	100%	0	PROVISION	--	1
1	20	POLE LT. RECEPT.	5.0	100%	47			5.0	48	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	49	0			50	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	51		0		52	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	53			15.0	54	100%	0	PROVISION	--	1
						140.4	137.6	133.8						

SQUARE D NQOD
SEE SPECIFICATIONS

(1) CIRCUIT RUN VIA ELCP
SEE SHEET E2.2B

PANEL 3A

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 200 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
1	20	LIGHTS	13.3	125%	1	40.6			2	125%	19.2	WATER HEATER #2	30	2
1	20	LIGHTS	11.1	125%	3		37.9		4	125%	19.2	--	--	--
1	20	LIGHTS	12.2	125%	5			24.0	6	100%	8.7	FC/AH/DB-7	15	2
1	20	LIGHTS	13.3	125%	7	25.3			8	100%	8.7	--	--	--
1	20	LIGHTS	13.7	125%	9		26.4		10	100%	9.3	FC/AH/DB-8	15	2
1	20	LIGHTS	8.0	125%	11			19.3	12	100%	9.3	--	--	--
1	20	LIGHTS	6.0	125%	13	15.5			14	100%	8.0	HOT WATER DISP.	20	1
1	20	SPARE	0	100%	15		10.0		16	100%	10.0	REFRIGERATOR	20	1
1	20	SPARE	0	100%	17			0	18	100%	0	SPARE	20	1
1	20	DOOR SECURITY	5.0	100%	19	5.0			20	100%	0	SPARE	20	1
1	20	DOOR SECURITY	5.0	100%	21		5.0		22	100%	0	SPARE	20	1
1	20	SPARE	5.0	100%	23			13.0	24	100%	8.0	UNDERCOUNTER REF.	20	1
1	20	SPARE	5.0	100%	25	15.0			26	100%	10.0	EWC	20	1
1	20	SPARE	5.0	100%	27		10.0		28	100%	5.0	BREAK COUNTER	20	1
1	20	SPARE	5.0	100%	29			10.0	30	100%	5.0	BREAK COUNTER	20	1
1	20	SPARE	0	100%	31	5.0			32	100%	5.0	BREAK COUNTER	20	1
1	20	SPARE	0	100%	33		5.0		34	100%	5.0	BREAK COUNTER	20	1
2	30	TANKLESS WTR. HTR. 1	16.8	100%	35			43.2	36	100%	26.4	TANKLESS WTR. HTR. 2	35	2
--	--	--	16.8	100%	37	43.2			38	100%	26.4	--	--	--
2	30	TANKLESS WTR. HTR. 1	16.8	100%	39		43.2		40	100%	26.4	TANKLESS WTR. HTR. 2	35	2
--	--	--	16.8	100%	41			43.2	42	100%	26.4	--	--	--
						149.6	137.5	152.6						

SQUARE D NQOD
SEE SPECIFICATIONS

MATHER ARCHITECTS, P.C.
373 Neff Ave, Harrisonburg, VA 22801
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Date:	03/24/14
Project:	13093
File:	13093-E02
Drawn By:	WLA,RBP

E0.2

PANEL 1R

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 200 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
SECTION 1														
1	20	RECEPTACLES	9.0	100%	1	18.0			2	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	3		18.0		4	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	5			18.0	6	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	7	18.0			8	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	9		18.0		10	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	11			18.0	12	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	13	18.0			14	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	15		18.0		16	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	17			18.0	18	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	19	18.0			20	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	21		18.0		22	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	23			18.0	24	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	25	18.0			26	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	27		18.0		28	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	29			18.0	30	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	31	18.0			32	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	33		18.0		34	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	35			18.0	36	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	37	18.0			38	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	39		18.0		40	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	41			18.0	42	100%	9.0	RECEPTACLES	20	1
SECTION 2														
1	20	RECEPTACLES	9.0	100%	43	9.0			44	100%	0	SPARE	20	1
1	20	RECEPTACLES	9.0	100%	45		9.0		46	100%	0	SPARE	20	1
1	20	SHREDDER	12.0	100%	47			12.0	48	100%	0	SPARE	20	1
1	20	COPIER	9.0	100%	49	9.0			50	100%	0	SPARE	20	1
1	20	SPARE	0	100%	51		0		52	100%	0	SPARE	20	1
1	20	SPARE	0	100%	53			0	54	100%	0	SPARE	20	1
1	20	SPARE	0	100%	55	0			56	100%	0	SPARE	20	1
1	20	SPARE	0	100%	57		0		58	100%	0	SPARE	20	1
1	20	SPARE	0	100%	59			0	60	100%	0	SPARE	20	1
1	--	PROVISION	0	100%	61	0			62	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	63		0		64	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	65			0	66	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	67	0			68	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	69		0		70	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	71			0	72	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	73	0			74	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	75		0		76	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	77			0	78	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	79	0			80	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	81		0		82	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	83			0	84	100%	0	PROVISION	--	1
						144.0	135.0	138.0						

SQUARE D NQOD
SEE SPECIFICATIONS

2 SECTION PANEL WITH SUB-FEED LUGS

PANEL 2R

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 200 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
SECTION 1														
1	20	RECEPTACLES	9.0	100%	1	18.0			2	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	3		18.0		4	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	5			18.0	6	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	7	18.0			8	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	9		18.0		10	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	11			18.0	12	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	13	18.0			14	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	15		18.0		16	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	17			18.0	18	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	19	18.0			20	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	21		18.0		22	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	23			18.0	24	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	25	18.0			26	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	27		18.0		28	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	29			18.0	30	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	31	18.0			32	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	33		18.0		34	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	35			18.0	36	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	37	18.0			38	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	39		18.0		40	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	41			18.0	42	100%	9.0	RECEPTACLES	20	1
SECTION 2														
1	20	RECEPTACLES	9.0	100%	43	18.0			44	100%	9.0	COPY ROOM	20	1
1	20	RECEPTACLES	9.0	100%	45		18.0		46	100%	9.0	COPY ROOM	20	1
1	20	PLOTTER	5.0	100%	47			14.0	48	100%	9.0	COPY ROOM	20	1
1	20	SCANNER	5.0	100%	49	14.0			50	100%	9.0	COPY ROOM	20	1
1	20	CUTTER	5.0	100%	51		14.0		52	100%	9.0	COPY ROOM	20	1
1	20	SPARE	0	100%	53			0	54	100%	0	SPARE	20	1
1	20	SPARE	0	100%	55	0			56	100%	0	SPARE	20	1
1	20	SPARE	0	100%	57		0		58	100%	0	SPARE	20	1
1	20	SPARE	0	100%	59			0	60	100%	0	SPARE	20	1
1	--	PROVISION	0	100%	61	0			62	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	63		0		64	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	65			0	66	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	67	0			68	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	69		0		70	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	71			0	72	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	73	0			74	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	75		0		76	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	77			0	78	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	79	0			80	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	81		0		82	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	83			0	84	100%	0	PROVISION	--	1
						158.0	158.0	140.0						

SQUARE D NQOD
SEE SPECIFICATIONS

2 SECTION PANEL WITH SUB-FEED LUGS

PANEL AT

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE

AMPS: 400 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR	
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P
1	20	ATRIUM LIGHTS	5.3	125%	1	12.6			2	100%	6.0	ATRIUM RECEPTACLES	20	1
1	20	ATRIUM LIGHTS	7.5	125%	3		15.4		4	100%	6.0	ATRIUM RECEPTACLES	20	1
1	20	ATRIUM LIGHTS	4.6	125%	5			11.8	6	100%	6.0	ATRIUM RECEPTACLES	20	1
1	20	ATRIUM LIGHTS	6.3	125%	7	13.9			8	100%	6.0	ATRIUM RECEPTACLES	20	1
1	20	ATRIUM LIGHTS	2.9	125%	9		6.6		10	125%	3.0	SOUND SYSTEM	20	1
1	20	ATRIUM LIGHTS	5.0	125%	11			6.3	12	125%	0	SPARE	20	1
1	20	ATRIUM LIGHTS	5.0	125%	13	6.3			14	100%	0	SPARE	20	1
1	20	ATRIUM LIGHTS	5.0	125%	15		6.3		16	100%	0	SPARE	20	1
1	20	ATRIUM LIGHTS	5.0	125%	17			6.3	18	100%	0	SPARE	20	1
1	20	SPARE	0	100%	19	0			20	100%	0	SPARE	20	1
1	20	SPARE	0	100%	21		0		22	100%	0	SPARE	20	1
1	20	SPARE	0	100%	23			0	24	100%	0	SPARE	20	1
3	250	ATRIUM RTU	167.0	100%	25	167.0			26	100%	0	PROVISION	--	1
--	--	--	167.0	100%	27		167.0		28	100%	0	PROVISION	--	1
--	--	--	167.0	100%	29			167.0	30	100%	0	PROVISION	--	1
						199.5	195.3	191.4						

SQUARE D NQOD
SEE SPECIFICATIONS

PANEL IT

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: FLUSH

AMPS: 300 MAIN: LUGS ONLY

BRKR		DESCRIPTION	CIRCUIT			PHASE AMPS			CIRCUIT			DESCRIPTION	BRKR		
P	A		AMPS	DEMAND	NO	A	B	C	NO	DEMAND	AMPS		A	P	
2	30	RACK 220V	16.0	100%	1	69.1			2	125%	42.8	CRU-AC	70	3	(1)
--	--	--	16.0	100%	3		69.1		4	125%	42.8	--	--	--	
2	30	RACK 220V	16.0	100%	5			69.1	6	125%	42.8	--	--	--	
--	--	--	16.0	100%	7	58.8			8	100%	42.8	CRU-AC	70	3	
2	30	RACK 220V	16.0	100%	9		58.8		10	100%	42.8	--	--	--	
--	--	--	16.0	100%	11			58.8	12	100%	42.8	--	--	--	
2	30	RACK 220V	16.0	100%	13	20.6			14	100%	4.6	CRU-OU	15	3	
--	--	--	16.0	100%	15		20.6		16	100%	4.6	--	--	--	
2	30	RACK 220V	16.0	100%	17			20.6	18	100%	4.6	--	--	--	
--	--	--	16.0	100%	19	20.6			20	100%	4.6	CRU-OU	15	3	
2	30	RACK 220V	16.0	100%	21		20.6		22	100%	4.6	--	--	--	
--	--	--	16.0	100%	23			20.6	24	100%	4.6	--	--	--	
2	30	RACK 220V	16.0	100%	25	16.0			26	100%	--	SPARE	30	1	
--	--	--	16.0	100%	27		16.0		28	100%	--	RACK 110V	30	1	
2	30	RACK 220V	16.0	100%	29			16.0	30	100%	--	RACK 110V	30	1	
--	--	--	16.0	100%	31	16.0			32	100%	--	RACK 110V	30	1	
1	20	RECEPTACLES	9.0	100%	33		9.0		34	100%	--	RACK 110V	30	1	
1	20	CORE SWITCH	16.0	100%	35			16.0	36	100%	--	RACK 110V	30	1	
1	20	NETWORK APPS	16.0	100%	37	16.0			38	100%	--	RACK 110V	30	1	
1	20	LUMOS SWITCH	16.0	100%	39		16.0		40	100%	--	RACK 110V	30	1	
1	20	SPARE	0	100%	41			0	42	100%	0	PROVISION	--	1	
1	20	SPARE	0	100%	43	0			44	100%	0	PROVISION	--	1	
1	20	SPARE	0	100%	45		0		46	100%	0	PROVISION	--	1	
1	20	SPARE	0	100%	47			0	48	100%	0	PROVISION	--	1	
1	20	SPARE	0	100%	49	0			50	100%	0	PROVISION	--	1	
1	20	SPARE	0	100%	51		0		52	100%	0	PROVISION	--	1	
1	20	SPARE	0	100%	53			0	54	100%	0	PROVISION	--	1	
						217.1	210.1	201.1							

SQUARE D NQOD
SEE SPECIFICATIONS

(1) LARGEST MOTOR

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Date:	03/24/14
Project:	13093
File:	13093–E03
Drawn By:	WLA,RBP

E0.3

LOAD SUMMARY - PANEL DP

LOAD	KW CONNECTED	KW DEMAND
HEATING/COOLING	241.0	241.0
TANK WATER HEATERS	14.0 X 1.25	17.5
TANKLESS WATER HEATERS	18.0 X .65	11.7
LIGHTING	29.0 X 1.25 (NEC 210-20)	36.3
RECEPTACLES	172.0 (NEC 220-44) 10.0 X 1 162.0 X .5	 10.0 81.0
	445.0 KW	397.5 KW

397.5 KW AT 208V-3PH. = 1104.0 AMPS

LOAD SUMMARY - PANEL EMDP

LOAD	KW CONNECTED	KW DEMAND
HEATING/COOLING	34.1	34.1
LIGHTING	26.8 X 1.25 (NEC 210-20)	33.5
RECEPTACLES	6.7 (NEC 220-44) 6.7 X 1	 6.7
IT ROOM SERVERS	42.0 X 1.25 (NEC 210-20)	53.0
LARGEST NON-A/C MOTOR (50HP - ELEVATOR)	51.5 X 1.25 (NEC 430-24)	64.4
	161.1 KW	191.7 KW

191.7 KW AT 208V-3PH. = 532.5 AMPS

PANEL 3R

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE
AMPS: 200 MAIN: LUGS ONLY

BRKR P	BRKR A	DESCRIPTION	CIRCUIT AMPS	CIRCUIT DEMAND	CIRCUIT NO	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	CIRCUIT NO	CIRCUIT DEMAND	CIRCUIT AMPS	DESCRIPTION	BRKR A	BRKR P
		SECTION 1												
1	20	RECEPTACLES	9.0	100%	1	18.0			2	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	3		18.0		4	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	5			18.0	6	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	7	18.0			8	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	9		18.0		10	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	11			18.0	12	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	13	18.0			14	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	15		18.0		16	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	17			18.0	18	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	19	18.0			20	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	21		18.0		22	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	23			18.0	24	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	25	18.0			26	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	27		18.0		28	100%	9.0	RECEPTACLES	20	1
1	20	RECEPTACLES	9.0	100%	29			18.0	30	100%	9.0	COPY ROOM	20	1
1	20	RECEPTACLES	9.0	100%	31	18.0			32	100%	9.0	COPY ROOM	20	1
1	20	RECEPTACLES	9.0	100%	33		18.0		34	100%	9.0	COPY ROOM	20	1
1	20	COPY ROOM	9.0	100%	35			18.0	36	100%	9.0	RECEPTACLES	20	1
1	20	COPY ROOM	9.0	100%	37	9.0			38	100%	0	SPARE	20	1
1	20	RECEPTACLES	9.0	100%	39		9.0		40	100%	0	SPARE	20	1
1	20	RECEPTACLES	9.0	100%	41			9.0	42	100%	0	SPARE	20	1
		SECTION 2												
1	20	SPARE	0	100%	43	0			44	100%	0	SPARE	20	1
1	20	SPARE	0	100%	45		0		46	100%	0	SPARE	20	1
1	20	SPARE	0	100%	47			0	48	100%	0	SPARE	20	1
1	20	SPARE	0	100%	49	0			50	100%	0	SPARE	20	1
1	20	SPARE	0	1005	51		0		52	100%	0	SPARE	20	1
1	20	SPARE	0	100%	53			0	54	100%	0	SPARE	20	1
1	20	SPARE	0	100%	55	0			56	100%	0	SPARE	20	1
1	20	SPARE	0	100%	57		0		58	100%	0	SPARE	20	1
1	20	SPARE	0	100%	59			0	60	100%	0	SPARE	20	1
1	--	PROVISION	0	100%	61	0			62	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	63		0		64	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	65			0	66	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	67	0			68	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	69		0		70	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	71			0	72	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	73	0			74	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	75		0		76	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	77			0	78	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	79	0			80	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	81		0		82	100%	0	PROVISION	--	1
1	--	PROVISION	0	100%	83			0	84	100%	0	PROVISION	--	1
						117.0	117.0	117.0						

SQUARE D NQOD
SEE SPECIFICATIONS

2 SECTION PANEL WITH SUB-FEED LUGS

PANEL EMI

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE
AMPS: 100 MAIN: LUGS ONLY

BRKR P	BRKR A	DESCRIPTION	CIRCUIT AMPS	CIRCUIT DEMAND	CIRCUIT NO	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	CIRCUIT NO	CIRCUIT DEMAND	CIRCUIT AMPS	DESCRIPTION	BRKR A	BRKR P
1	20	LOWER EM. LIGHTS	9.8	125%	1	14.2			2	100%	1.9	ELEV. PIT	20	1
1	20	LOWER EM. LIGHTS	7.0	125%	3		14.8		4	100%	6.0	PIT SUMP PUMP	20	1
1	20	LOWER EM. LIGHTS	6.3	125%	5			10.0	6	100%	2.0	ELEV. MACHINE ROOM	20	1
1	20	LOWER EM. LIGHTS	10.7	125%	7	17.4			8	100%	4.0	ELEV. CAR LIGHTS	20	1
1	20	1ST EM. LIGHTS	7.7	125%	9		19.6		10	125%	8.0	EXTERIOR WALL LTS.	20	1
1	20	1ST EM. LIGHTS	8.4	125%	11			20.5	12	125%	8.0	EXTERIOR ENTRY LTS.	20	1 (1)
1	20	1ST EM. LIGHTS	10.5	125%	13	20.6			14	125%	6.0	BOLLARD LIGHTS	20	1 (1)
1	20	1ST EM. LIGHTS	4.6	125%	15		10.8		16	100%	5.0	FIRE ALARM	20	1
1	20	1ST EM. LIGHTS	10.5	125%	17			19.1	18	100%	6.0	1ST EQUIP. SPACE	20	1
1	20	1ST. EM. LIGHTS	6.0	125%	19	21.9			20	100%	14.4	SPRINKLER RM. HEAT	20	2
1	20	1ST EM. LIGHTS	10.0	125%	21		26.9		22	100%	14.4	--	--	--
1	20	1ST EM. LIGHTS	10.0	125%	23			18.5	24	100%	6.0	BSMT. EQUIP. SPACE	20	1
1	20	1ST EM. LIGHTS	10.4	125%	25	13.0			26	100%	0	SPARE	20	1
2	15	FCU/OU-2	11.2	100%	27		17.2		28	100%	6.0	HEADEND SPACE	20	1
--	--	--	11.2	100%	29			17.2	30	100%	6.0	HEADEND SPACE	20	1
1	20	SPARE	0	100%	31	0			32	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	33		0		34	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	35			0	36	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	37	0			38	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	39		0		40	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	41			0	42	100%	0	PROVISION	--	1
						87.1	89.3	85.3						

SQUARE D NQOD
SEE SPECIFICATIONS

(1) CIRCUIT RUN VIA ELCP
SEE SHEET E2.2B

PANEL EM2

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE
AMPS: 100 MAIN: LUGS ONLY

BRKR P	BRKR A	DESCRIPTION	CIRCUIT AMPS	CIRCUIT DEMAND	CIRCUIT NO	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	CIRCUIT NO	CIRCUIT DEMAND	CIRCUIT AMPS	DESCRIPTION	BRKR A	BRKR P
1	20	2ND EM. LIGHTS	9.5	125%	1	11.9			2	100%	6.0	3RD EQUIP. SPACE	20	1
1	20	2ND EM. LIGHTS	8.1	125%	3		16.1		4	100%	6.0	2ND EQUIP. SPACE	20	1
1	20	2ND EM. LIGHTS	7.0	125%	5			14.8	6	100%	6.0	3RD EQUIP. SPACE	20	1
1	20	2ND EM. LIGHTS	13.3	125%	7	16.6			8	100%	0	SPARE	20	1
1	20	2ND EM. LIGHTS	8.1	125%	9		10.1		10	100%	0	SPARE	20	1
1	20	2ND EM. LIGHTS	8.4	125%	11			10.5	12	100%	0	SPARE	20	1
1	20	3RD EM. LIGHTS	6.3	125%	13	7.9			14	100%	0	PROVISION	--	1
1	20	3RD EM. LIGHTS	7.7	125%	15		9.6		16	100%	0	PROVISION	--	1
1	20	3RD EM. LIGHTS	8.4	125%	17			10.5	18	100%	0	PROVISION	--	1
1	20	3RD EM. LIGHTS	7.5	125%	19	9.4			20	100%	0	PROVISION	--	1
1	20	3RD EM. LIGHTS	13.7	125%	21		17.1		22	100%	0	PROVISION	--	1
1	20	STAIR LIGHTS	7.0	125%	23			8.8	24	100%	0	PROVISION	--	1
1	20	STAIR LIGHTS	9.3	125%	25	11.6			26	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	27		0		28	100%	0	PROVISION	--	1
1	20	SPARE	0	100%	29			0	30	100%	0	PROVISION	--	1
						57.4	52.9	44.6						

SQUARE D NQOD
SEE SPECIFICATIONS

PANEL EMDP

VOLTS: 120/208 PHASE: 3 WIRES: 4
AMPS: 800 MAIN: LUGS ONLY MOUNTING: SURFACE

BRKR P	BRKR A	DESCRIPTION	NO	NO	DESCRIPTION	BRKR A	BRKR P
(1) 3	300	ELEVATOR	1	2	PANEL EMI	100	3
(2) --	--	--	3	4	--	--	--
--	--	--	5	6	--	--	--
3	400	PANEL IT	7	8	PANEL EM2	100	3
--	--	--	9	10	--	--	--
--	--	--	11	12	--	--	--
3	--	PROVISION	13	14	PROVISION	--	3
--	--	--	15	16	--	--	--
--	---	--	17	18	--	--	--

SQUARE D I-LINE
SEE SPECIFICATIONS

(1) LARGEST MOTOR
(2) SHUNT TRIP BREAKER, COORDINATE WITH FIRE ALARM

PANEL DP

VOLTS: 120/208 PHASE: 3 WIRES: 4
AMPS: 1600 MAIN: LUGS ONLY MOUNTING: SURFACE

BRKR P	BRKR A	DESCRIPTION	NO	NO	DESCRIPTION	BRKR A	BRKR P
3	200	PANEL BA	1	2	PANEL BR	200	3
--	--	--	3	4	--	--	--
--	--	--	5	6	--	--	--
3	200	PANEL 1A	7	8	PANEL 1R	200	3
--	--	--	9	10	--	--	--
--	--	--	11	12	--	--	--
3	100	PANEL 2A	13	14	PANEL 2R	200	3
--	--	--	15	16	--	--	--
--	--	--	17	18	--	--	--
3	200	PANEL 3A	19	20	PANEL 3R	200	3
--	--	--	21	22	--	--	--
--	--	--	23	24	--	--	--
3	600	PANEL DPM	25	26	ERV	150	3
--	--	--	27	28	--	--	--
--	--	--	29	30	--	--	--
3	--	PROVISION	31	32	PROVISION	--	3
--	--	--	33	34	--	--	--
--	--	--	35	36	--	--	--
3	--	PROVISION	37	38	PROVISION	--	3
--	--	--	39	40	--	--	--
--	--	--	41	42	--	--	--

SQUARE D I-LINE
SEE SPECIFICATIONS

PANEL DPM

VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE
AMPS: 600 MAIN: LUGS ONLY

BRKR P	BRKR A	DESCRIPTION	CIRCUIT AMPS	CIRCUIT DEMAND	CIRCUIT NO	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	CIRCUIT NO	CIRCUIT DEMAND	CIRCUIT AMPS	DESCRIPTION	BRKR A	BRKR P
(1) 3	60	OU-1	44.0	125%	1	88.0			2	100%	33.0	OU-6 CIRCUIT #1	60	3
--	--	--	44.0	125%	3		88.0		4	100%	33.0	--	--	--
--	--	--	44.0	125%	5			88.0	6	100%	33.0	--	--	--
3	60	OU-3 CIRCUIT #1	33.4	100%	7	77.4			8	100%	44.0	OU-6 CIRCUIT #2	60	3
--	--	--	33.4	100%	9		77.4		10	100%	44.0	--	--	--
--	--	--	33.4	100%	11			77.4	12	100%	44.0	--	--	--
3	60	OU-3 CIRCUIT #2	44.0	100%	13	77.0			14	100%	33.0	OU-7 CIRCUIT #1	60	3
--	--	--	44.0	100%	15		77.0		16	100%	33.0	--	--	--
--	--	--	44.0	100%	17			77.0	18	100%	33.0	--	--	--
3	40	OU-4 CIRCUIT #1	21.0	100%	19	65.0			20	100%	44.0	OU-7 CIRCUIT #2	60	3
--	--	--	21.0	100%	21		65.0		22	100%	44.0	--	--	--
--	--	--	21.0	100%	23			65.0	24	100%	44.0	--	--	--
3	60	OU-4 CIRCUIT #2	44.0	100%	25	77.4			26	100%	33.4	OU-8 CIRCUIT #1	60	3
--	--	--	44.0	100%	27		77.4		28	100%	33.4	--	--	--
--	--	--	44.0	100%	29			77.4	30	100%	33.4	--	--	--
3	60	OU-5	44.0	100%	31	88.0			32	100%	44.0	OU-8 CIRCUIT #2	60	3
--	--	--	44.0	100%	33		88.0		34	100%	44.0	--	--	--
--	--	--	44.0	100%	35			88.0	36	100%	44.0	--	--	--
3	--	PROVISION	0	100%	37	0			38	100%	0	PROVISION	--	3
--	--	--	0	100%	39		0		40	100%	0	--	--	--
--	--	--	0	100%	41			0	42	100%	0	--	--	--
						472.8	472.8	472.8						

SQUARE D I-LINE
SEE SPECIFICATIONS

(1) LARGEST MOTOR

MATHER ARCHITECTS, P.C.
373 Neff Ave, Harrisonburg, VA 22801
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MEI engineering, inc.
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Electrical Schedules

No Scale

Proposed New City Hall
Harrisonburg, Virginia

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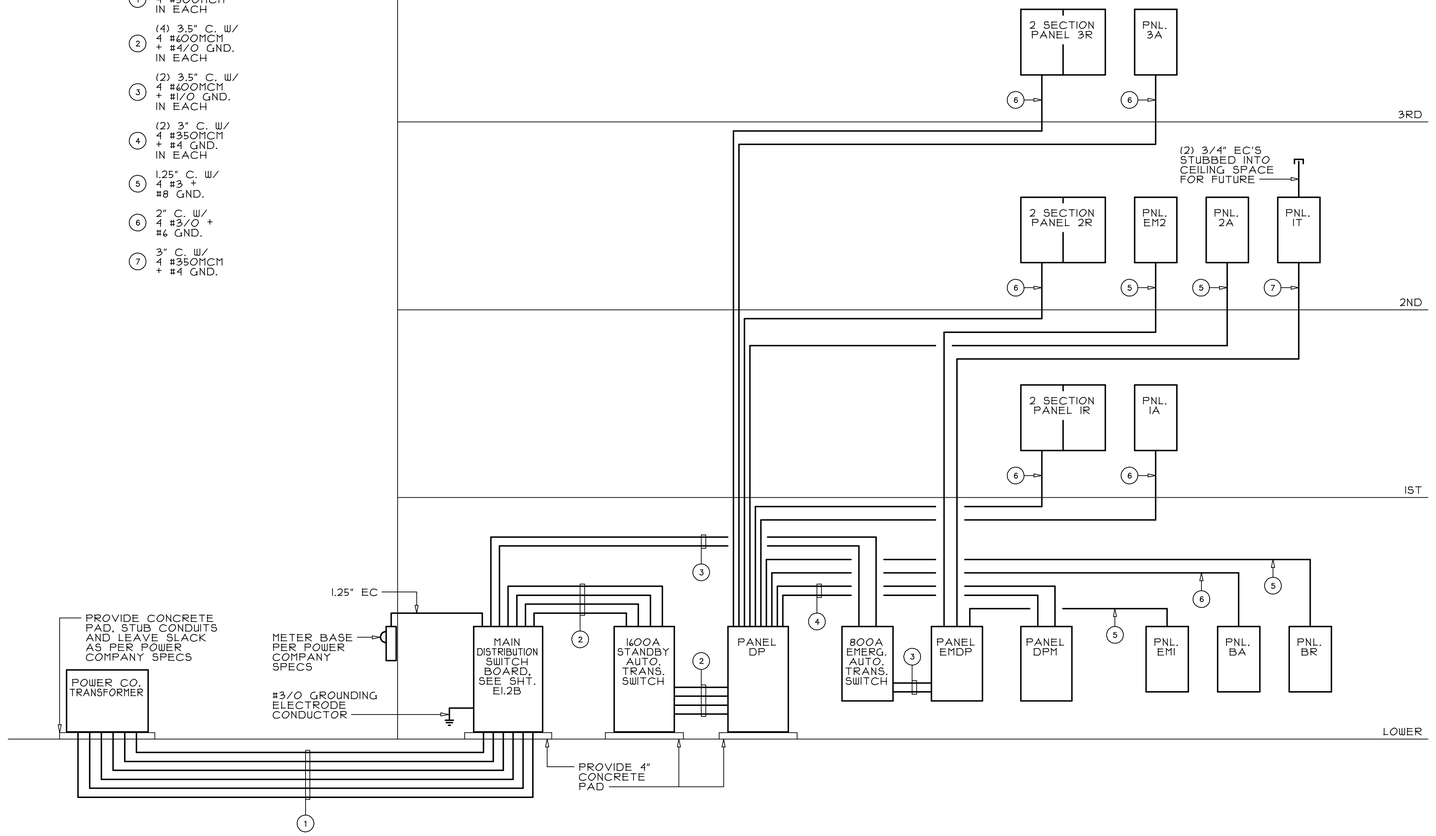
Date:	03/24/14
Project:	13093
File:	13093-E04
Drawn By:	WLA,RBP

E0.4

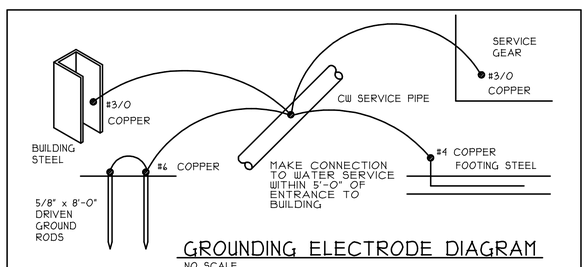
WIRING/CONDUIT LEGEND:

1. (4) 3" C. W/ 4 #500MCM IN EACH
2. (4) 3.5" C. W/ 4 #600MCM + #4/0 GND. IN EACH
3. (2) 3.5" C. W/ 4 #600MCM + #1/0 GND. IN EACH
4. (2) 3" C. W/ 4 #350MCM + #4 GND. IN EACH
5. 1.25" C. W/ 4 #3 + #8 GND.
6. 2" C. W/ 4 #3/0 + #6 GND.
7. 3" C. W/ 4 #350MCM + #4 GND.



POWER RISER DIAGRAM

NO SCALE

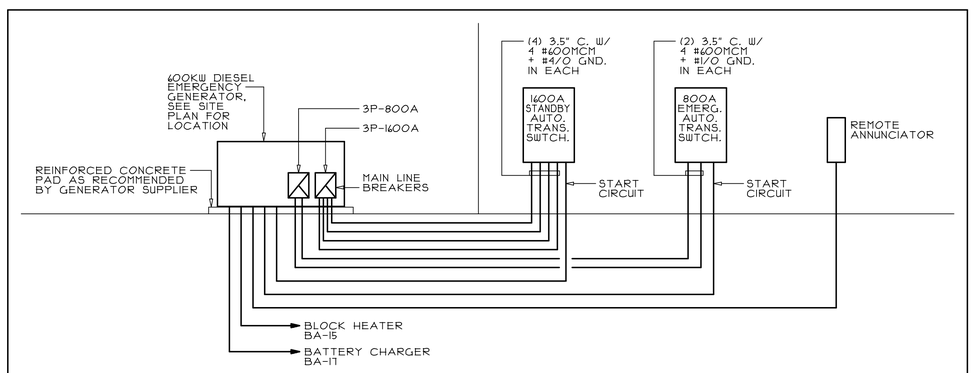


GROUNDING ELECTRODE DIAGRAM

NO SCALE

NOTE:

THIS DIAGRAM IS SCHEMATIC IN NATURE AND IS NOT INTENDED TO BE THE ONLY ACCEPTABLE ROUTING METHOD FOR THE GROUNDING ELECTRODE SYSTEM. ALL ITEMS SHOWN (WHERE AVAILABLE) SHALL BE BONDED TOGETHER



EMERGENCY POWER RISER DIAGRAM

NO SCALE

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Electrical Risers
No Scale

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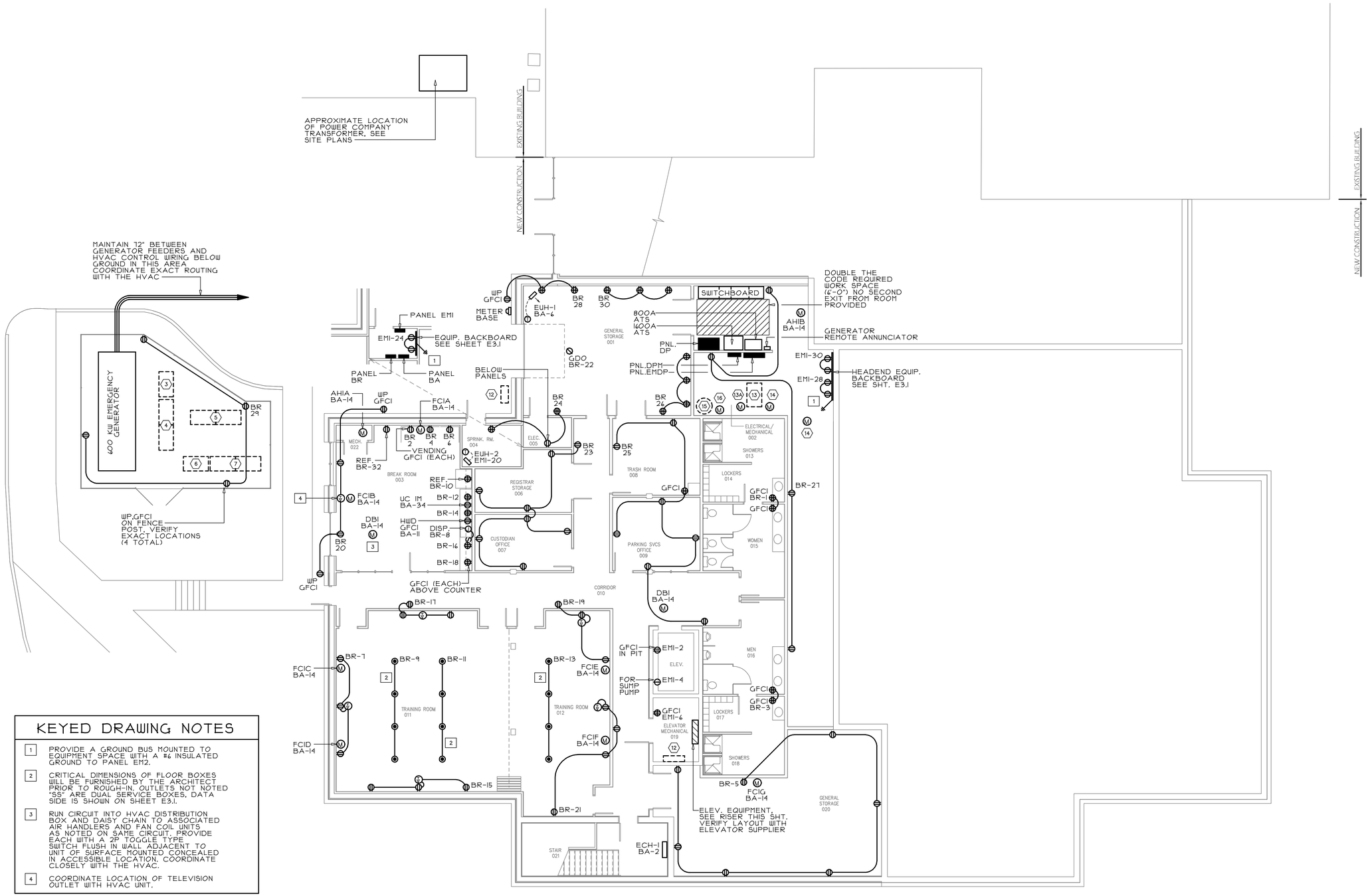
Date:	03/24/14
Project:	13093
File:	13093–E05
Drawn By:	WLA,RBP

E0.5



KEYED DRAWING NOTES

1. PROVIDE A GROUND BUS MOUNTED TO EQUIPMENT SPACE WITH A #6 INSULATED GROUND TO PANEL EM2.
2. CRITICAL DIMENSIONS OF FLOOR BOXES WILL BE FURNISHED BY THE ARCHITECT PRIOR TO ROUGH-IN. OUTLETS NOT NOTED "SS" ARE DUAL SERVICE BOXES, DATA SIDE IS SHOWN ON SHEET E3.1.
3. RUN CIRCUIT INTO HVAC DISTRIBUTION BOX AND DAISY CHAIN TO ASSOCIATED AIR HANDLERS AND FAN COIL UNITS AS NOTED ON SAME CIRCUIT. PROVIDE EACH WITH A 2P TOGGLE TYPE SWITCH FLUSH IN WALL ADJACENT TO UNIT OF SURFACE MOUNTED CONCEALED IN ACCESSIBLE LOCATION. COORDINATE CLOSELY WITH THE HVAC.
4. COORDINATE LOCATION OF TELEVISION OUTLET WITH HVAC UNIT.

LOWER LEVEL POWER PLAN

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

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Lower Level Power Plan
Scale: 1/8" = 1'-0"

Proposed New City Hall
Harrisonburg, Virginia

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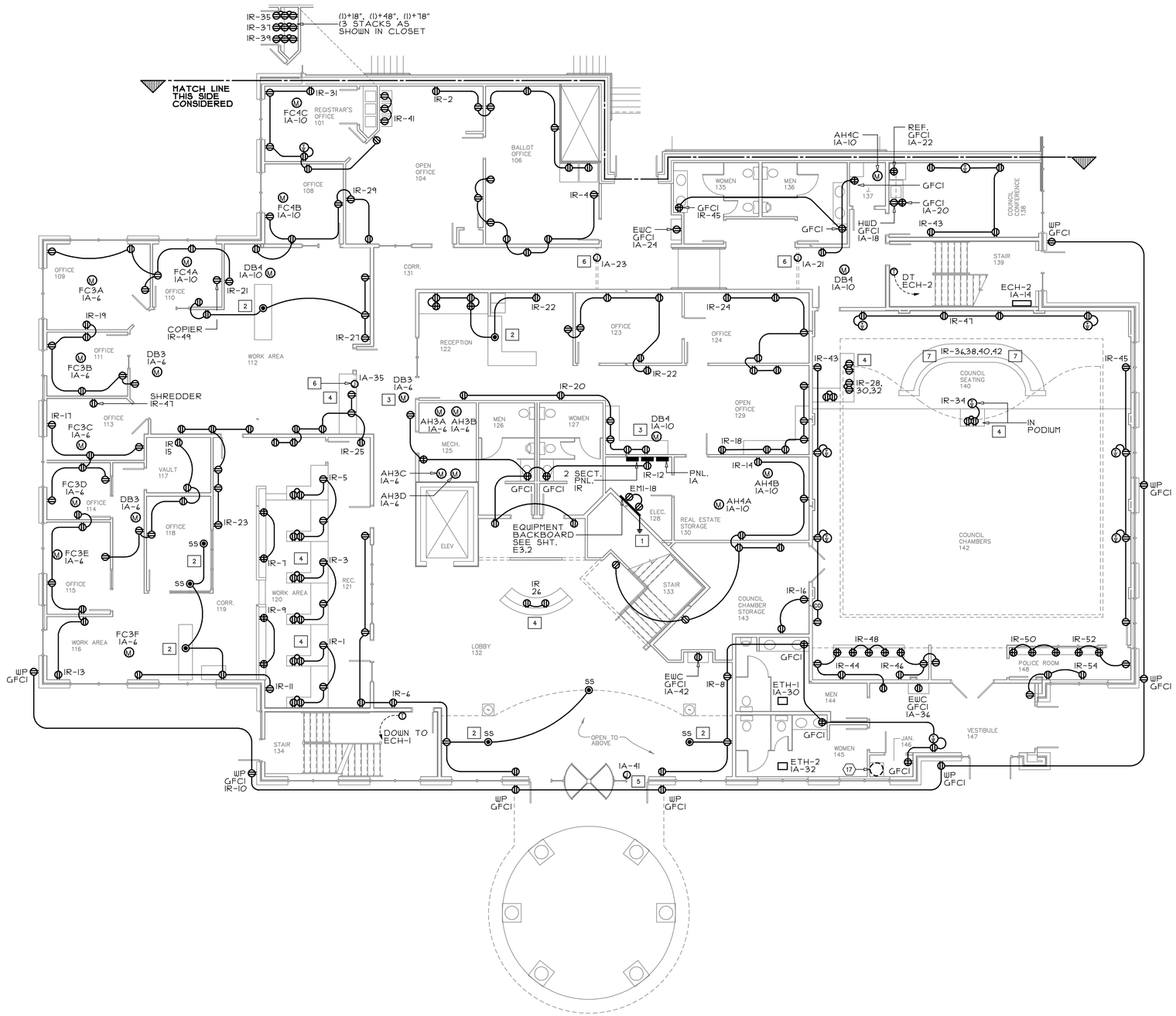
Date:	03/24/14
Project:	13093
File:	13093-E11
Drawn By:	WLA,RBP

E1.1

KEYED DRAWING NOTES

1. PROVIDE A GROUND BUS MOUNTED TO EQUIPMENT SPACE WITH A #6 INSULATED GROUND TO PANEL EMI.
2. CRITICAL DIMENSIONS OF FLOOR BOXES WILL BE FURNISHED BY THE ARCHITECT PRIOR TO ROUGH-IN. OUTLETS NOT NOTED "SS" ARE DUAL SERVICE BOXES, DATA SIDE IS SHOWN ON SHEET E3.1.
3. RUN CIRCUIT INTO HVAC DISTRIBUTION BOX AND DAISY CHAIN TO ASSOCIATED AIR HANDLERS AND FAN COIL UNITS AS NOTED ON SAME CIRCUIT. PROVIDE EACH WITH A 2P TOGGLE TYPE SWITCH FLUSH IN WALL ADJACENT TO UNIT OF SURFACE MOUNTED CONCEALED IN ACCESSIBLE LOCATION. COORDINATE CLOSELY WITH THE HVAC.
4. LOCATE AND MOUNT OUTLETS IN CASEWORK AND ROUTE WIRING METHODS AS DIRECTED BY THE ARCHITECT.
5. 120 VOLT, 1 PH. FOR DOOR POWER ASSIST. COORDINATE WITH HARDWARE SUPPLIER. INSTALL ENTER AND EXIT BUTTONS AT LOCATIONS DIRECTED BY THE ARCHITECT.
6. 120 VOLT, 1 PH. FOR ROLLING GATES. COORDINATE WITH SUPPLIER. INSTALL CONTROL STATIONS AT LOCATIONS DIRECTED BY THE ARCHITECT.
7. COUNCIL CHAMBER DESK IS BEING RELOCATED FROM PRESENT ANNEX BUILDING AND IS PRE-WIRED WITH (11) RECEPTACLES. DISCONNECT AT PRESENT LOCATION AND CONNECT TO NEW CIRCUITS SHOWN. EQUALLY BALANCE LOADS OVER CIRCUITS TO BEST EXTENT POSSIBLE.



FIRST FLOOR POWER PLAN - PART A

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

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First Floor Power Plan - Part A

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

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Harrisonburg, Virginia

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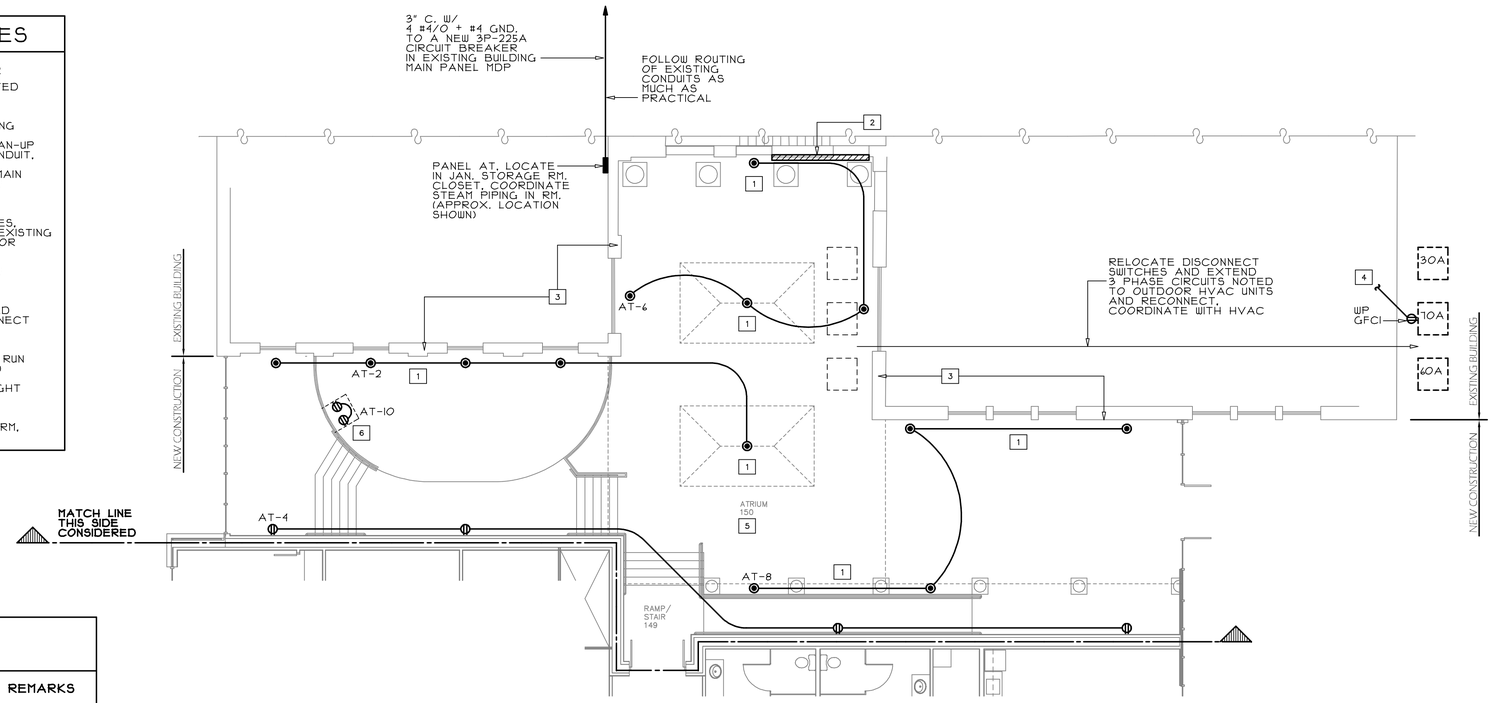
Date:	03/24/14
Project:	13093
File:	13093-E12A
Drawn By:	WLA,RBP

E1.2A

KEYED DRAWING NOTES

1. CRITICAL DIMENSIONS OF FLOOR BOXES WILL BE FURNISHED BY THE ARCHITECT PRIOR TO ROUGH-IN. OUTLETS NOT NOTED "SS" ARE DUAL SERVICE BOXES, DATA SIDE IS SHOWN ON SHEET E3.1.
2. AREA OF ORIGINAL SERVICE TO EXISTING MUNICIPAL BUILDING THAT HAS BEEN RELOCATED. CONTRACTOR SHALL CLEAN-UP WALL SPACE. REMOVE ABANDONED CONDUIT, BOXES AND FITTINGS. RELOCATE ANY CIRCUITS OR FEEDS THAT ARE TO REMAIN TO OPPOSITE SIDE OF WALL OR TO BE CONCEALED IN NEW DROPPED CEILING OF ATRIUM IN THE AREA.
3. REMOVE ANY SURFACE CONDUITS, BOXES, LIGHTS, OUTLETS AND THE LIKE FROM EXISTING EXTERIOR WALLS THAT BECOME INTERIOR ATRIUM WALLS. ANY ELECTRICAL THAT MUST REMAIN SHALL BE RELOCATED TO OPPOSITE SIDE OF WALL OR TO BE CONCEALED IN NEW DROPPED CEILING OF ATRIUM IN THE AREA.
4. PROVIDE NEW SERVICE OUTLET MOUNTED ON SIDE OF RELOCATED AC UNIT. CONNECT TO NEAREST GENERAL PURPOSE RECEPTALE CIRCUIT.
5. ALL CONDUITS AND CABLES SHALL BE RUN CONCEALED IN ATRIUM AREA. EXPOSED CONDUIT RUNS MUST BE APPROVED BY THE ARCHITECT AND SHALL BE STRAIGHT AND TRUE WITH STRUCTURE.
6. POWER FOR SOUND SYSTEM EQUIPMENT BEHIND ACCESS PANEL BELOW PLATFORM. VERIFY LOCATIONS.



FIRST FLOOR POWER PLAN - PART B

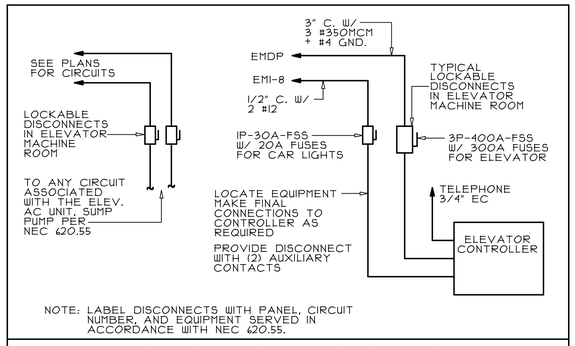
SCALE: 1/8" = 1'-0"

EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	VOLTS	PH	FLA	WIRE	GND.	DISCONNECT	PNL. & CKT.	REMARKS
1	RTU	208	3	167.0	3 #250MCM	#4	3P-400A-FSS W/ 250A FUSES	AT-25	NEMA 3R
2	ERV	208	3	103.0	3 #1/0	#6	3P-200A-FSS W/ 150A FUSES	DP-26	NEMA 3R
3	OU-1	208	3	44.0	3 #6	#10	3P-60A-NFSS	DPM-1	NEMA 3R
4	OU-3 CIRCUIT #1	208	3	33.4	3 #6	#10	3P-60A-NFSS	DPM-7	NEMA 3R
	OU-3 CIRCUIT #2	208	3	44.0	3 #6	#10	3P-60A-NFSS	DPM-13	NEMA 3R
5	OU-4 CIRCUIT #1	208	3	21.0	3 #8	#10	3P-60A-NFSS	DPM-19	NEMA 3R
	OU-4 CIRCUIT #2	208	3	44.0	3 #6	#10	3P-60A-NFSS	DPM-25	NEMA 3R
6	OU-5	208	3	44.0	3 #6	#10	3P-60A-FSS	DPM-31	NEMA 3R
7	OU-6 CIRCUIT #1	208	3	33.0	3 #6	#10	3P-60A-NFSS	DPM-2	NEMA 3R
	OU-6 CIRCUIT #2	208	3	44.0	3 #6	#10	3P-60A-NFSS	DPM-8	NEMA 3R
8	OU-7 CIRCUIT #1	208	3	33.0	3 #6	#10	3P-60A-NFSS	DPM-14	NEMA 3R
	OU-7 CIRCUIT #2	208	3	44.0	3 #6	#10	3P-60A-NFSS	DPM-20	NEMA 3R
9	OU-8 CIRCUIT #1	208	3	33.4	3 #6	#10	3P-60A-NFSS	DPM-26	NEMA 3R
	OU-8 CIRCUIT #2	208	3	44.0	3 #6	#10	3P-60A-NFSS	DPM-32	NEMA 3R
10	CRU-AC	208	3	42.8	3 #4	#8	3P-100A-NFSS	IT-2, IT-8	2 LOCATIONS
11	CRU-OU	208	3	4.6	3 #12	#12	3P-30A-NFSS	IT-14, IT-20	NEMA 3R 2 LOCATIONS
12	FCU/OU-2	208	1	11.16	2 #12	#12	2P-30A-NFSS	EM1-27	NEMA 3R NOTE 1
13	BOILER (GAS)	120	1	5.5	2 #12	#12	TOGGLE SWITCH	BA-22	
13A	BOILER PUMP (2 TOTAL)	120	1	5.8 EA.	2 #12 EA.	#12 EA.	TOGGLE SWITCH EACH	BA-20,24	
14	PUMP (3 HP)	208	3	10.6 EA.	3 #12 EA.	#12 EA.	COMBINATION CONTROLLERS	BA-25, BA-26	2 LOCATIONS
15	GAS WATER HEATER	120	1	5.0	2 #12	#12	TOGGLE SWITCH	BA-18	TIE WITH 16
16	RECIRC. PUMP	120	1	5.0	2 #12	#12	TOGGLE SWITCH	BA-18	TIE WITH 15
17	ELEC. WTR. HTR. 1	208	1	24.0	2 #10	#10	2P-30A-NFSS	1A-2, 2A-2	2 LOCATIONS
18	ELEC. WTR. HTR. 2	208	1	19.2	2 #10	#10	2P-30A-NFSS	3A-2	
19	TANKLESS WTR. HTR. 1	208	1	16.8	2 #10	#10	2P-30A-NFSS	3A-35, 3A-39	2 LOCATIONS
20	TANKLESS WTR. HTR. 2	208	1	26.4	2 #8	#10	2P-60A-NFSS	3A-36, 3A-40	2 LOCATIONS

SCHEDULE NOTES

1. LOCATE TOGGLE SWITCH AT INDOOR FCU SECTION AND WIRE TO CIRCUIT SERVING OUTDOOR OU SECTION AS RECOMMENDED BY THE SYSTEM MANUFACTURER.
2. RUN CIRCUITS TO "HACR" BREAKERS.
3. RTU = ROOFTOP UNIT, ERV = ENERGY RECOVERY VENTILATOR, OU = OUTDOOR UNIT, CRU-AC = COMPUTER ROOM UNIT - AIR CONDITIONING UNIT, CRU-OU = COMPUTER ROOM UNIT - OUTDOOR UNIT, FCU/OU = FAN COIL UNIT/OUTDOOR UNIT.



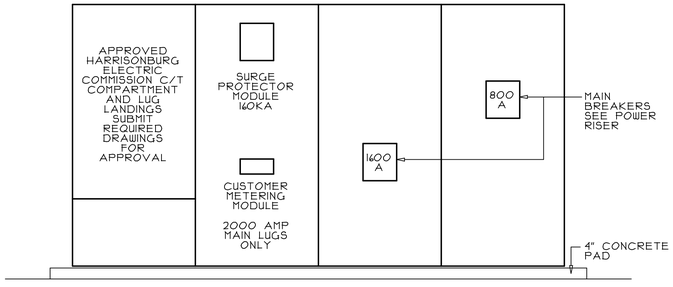
NOTE: LABEL DISCONNECTS WITH PANEL, CIRCUIT NUMBER, AND EQUIPMENT SERVED IN ACCORDANCE WITH NEC 620.55.

ELEVATOR EQUIPMENT RISER

NO SCALE

NOTE:

DESIGN IS BASED ON A 50HP, 208V-3PH, ELEVATOR. VERIFY WIRE SIZE AND OVERCURRENT PROTECTION REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN. MAKE FINAL CONNECTIONS AFTER EQUIPMENT IS SET IN PLACE. LOCATE ALL RELATED EQUIPMENT AND DEVICES IN ACCORDANCE WITH ELEVATOR SUPPLIER SHOP DRAWINGS.



SERVICE SWITCHBOARD DETAIL

NO SCALE

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First Floor Power Plan - Part B

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

Proposed New City Hall

Harrisonburg, Virginia

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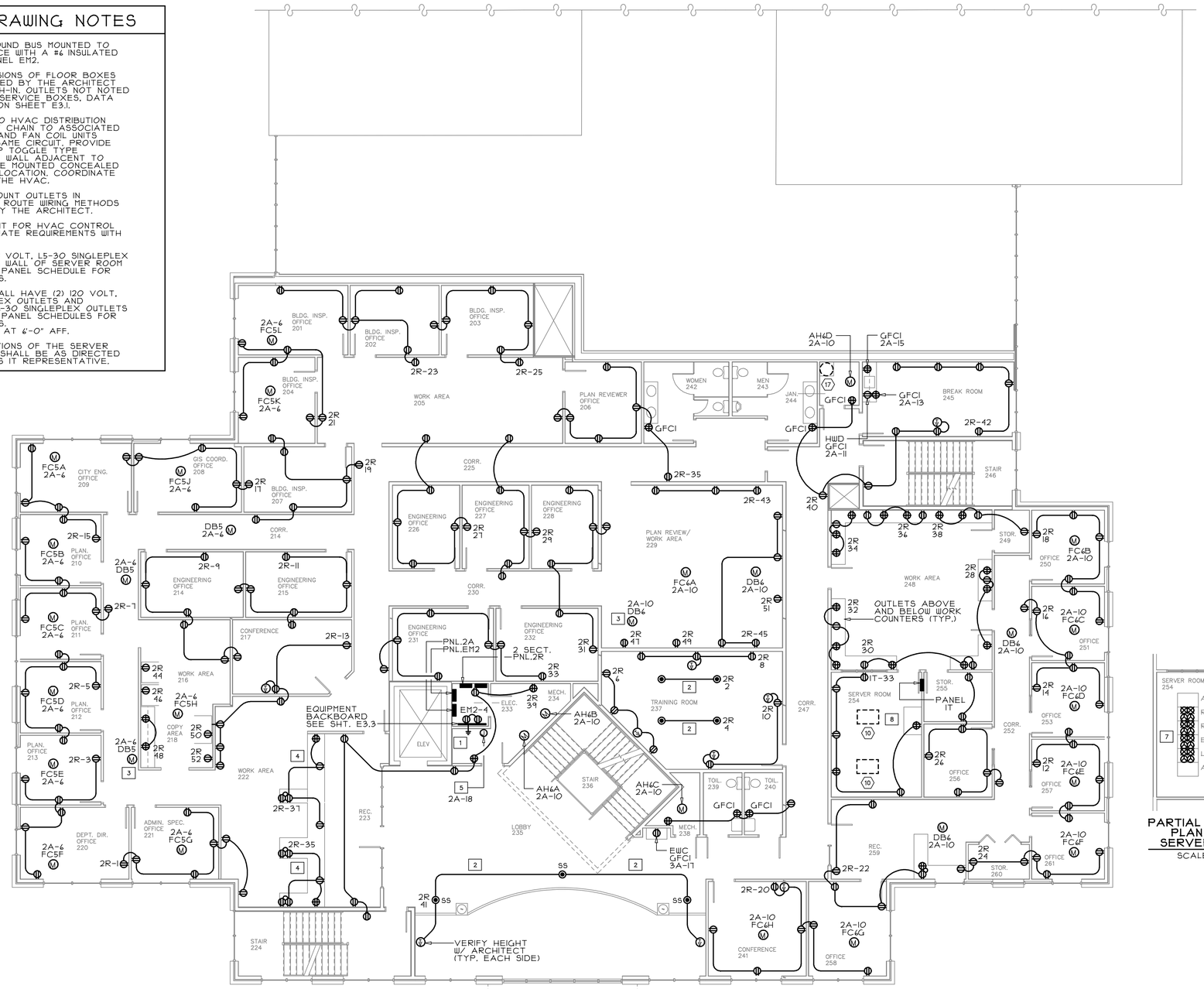
Date:	03/24/14
Project:	13093
File:	13093-E12B
Drawn By:	WLA,RBP

E1.2B

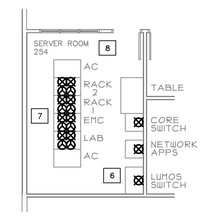
KEYED DRAWING NOTES

1. PROVIDE A GROUND BUS MOUNTED TO EQUIPMENT SPACE WITH A #6 INSULATED GROUND TO PANEL EM2.
2. CRITICAL DIMENSIONS OF FLOOR BOXES WILL BE FURNISHED BY THE ARCHITECT PRIOR TO ROUGH-IN. OUTLETS NOT NOTED "SS" ARE DUAL SERVICE BOXES. DATA SIDE IS SHOWN ON SHEET E3.1.
3. RUN CIRCUIT INTO HVAC DISTRIBUTION BOX AND DAISY CHAIN TO ASSOCIATED AIR HANDLERS AND FAN COIL UNITS AS NOTED ON SAME CIRCUIT. PROVIDE EACH WITH A 2P TOGGLE TYPE SWITCH FLUSH IN WALL ADJACENT TO UNIT OF SURFACE MOUNTED CONCEALED IN ACCESSIBLE LOCATION. COORDINATE CLOSELY WITH THE HVAC.
4. LOCATE AND MOUNT OUTLETS IN CASEWORK AND ROUTE WIRING METHODS AS DIRECTED BY THE ARCHITECT.
5. 120 VOLT CIRCUIT FOR HVAC CONTROL PANEL. COORDINATE REQUIREMENTS WITH HVAC.
6. PROVIDE (3) 120 VOLT, L5-30 SINGLEPLEX OUTLETS ALONG WALL OF SERVER ROOM AS SHOWN. SEE PANEL SCHEDULE FOR CIRCUIT NUMBERS.
7. EACH RACK SHALL HAVE (2) 120 VOLT, L5-30 SINGLEPLEX OUTLETS AND (2) 208 VOLT L6-30 SINGLEPLEX OUTLETS AS SHOWN. SEE PANEL SCHEDULES FOR CIRCUIT NUMBERS. MOUNT OUTLETS AT 6'-0" AFF.
8. CRITICAL LOCATIONS OF THE SERVER ROOM OUTLETS SHALL BE AS DIRECTED BY THE OWNER'S IT REPRESENTATIVE.



SECOND FLOOR POWER PLAN

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



PARTIAL ELECTRICAL PLAN SHOWING SERVER OUTLETS

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

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Second Floor Power Plan

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

Proposed New City Hall

Harrisonburg, Virginia

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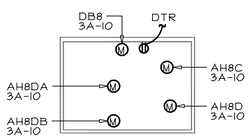
Date:	03/24/14
Project:	13093
File:	13093–E13
Drawn By:	WLA,RBP

E1.3

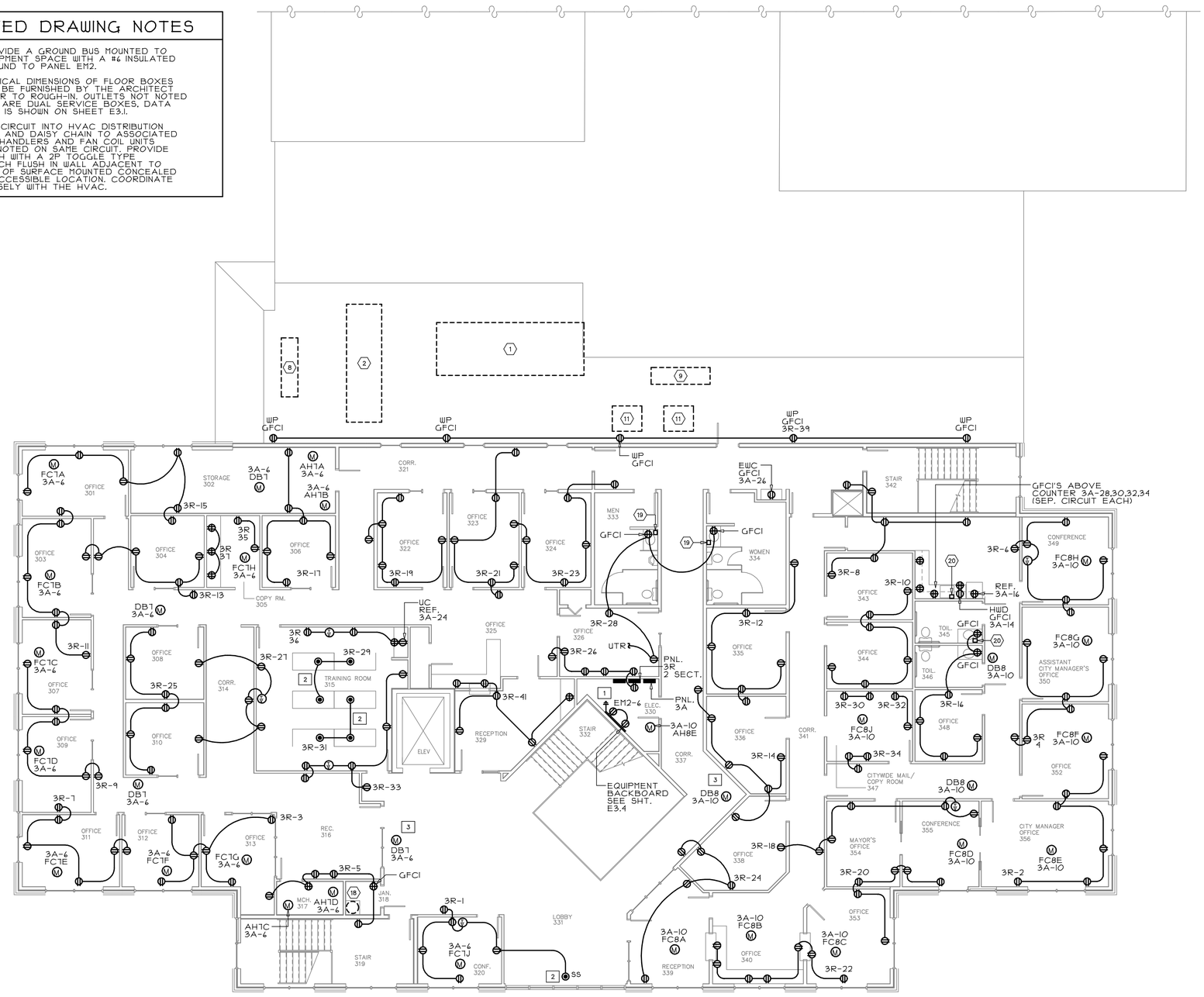
KEYED DRAWING NOTES

1. PROVIDE A GROUND BUS MOUNTED TO EQUIPMENT SPACE WITH A #6 INSULATED GROUND TO PANEL EM2.
2. CRITICAL DIMENSIONS OF FLOOR BOXES WILL BE FURNISHED BY THE ARCHITECT PRIOR TO ROUGH-IN. OUTLETS NOT NOTED "SS" ARE DUAL SERVICE BOXES, DATA SIDE IS SHOWN ON SHEET E3.1.
3. RUN CIRCUIT INTO HVAC DISTRIBUTION BOX AND DAISY CHAIN TO ASSOCIATED AIR HANDLERS AND FAN COIL UNITS AS NOTED ON SAME CIRCUIT. PROVIDE EACH WITH A 2P TOGGLE TYPE SWITCH FLUSH IN WALL ADJACENT TO UNIT OF SURFACE MOUNTED CONCEALED IN ACCESSIBLE LOCATION. COORDINATE CLOSELY WITH THE HVAC.



PARTIAL ATTIC POWER PLAN

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



THIRD FLOOR POWER PLAN

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

NOTE: PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM FOR NEW BUILDING, INCLUDING ATRIUM, SEE SPECIFICATIONS.

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Third Floor Power Plan

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

Proposed New City Hall

Harrisonburg, Virginia

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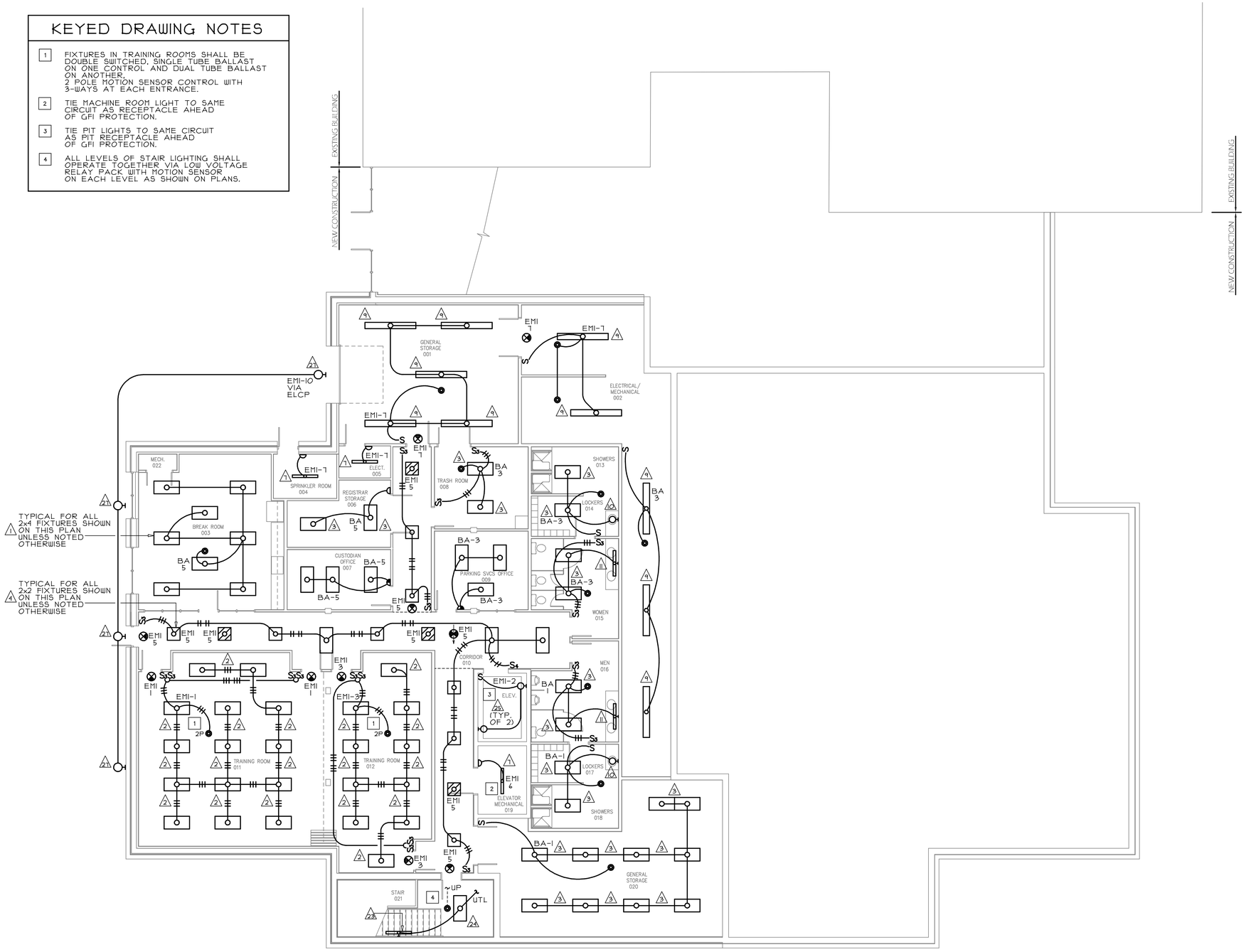
Date:	03/24/14
Project:	13093
File:	13093-E14
Drawn By:	WLA,RBP

E1.4

KEYED DRAWING NOTES

1. FIXTURES IN TRAINING ROOMS SHALL BE DOUBLE SWITCHED. SINGLE TUBE BALLAST ON ONE CONTROL AND DUAL TUBE BALLAST ON ANOTHER.
   2 POLE MOTION SENSOR CONTROL WITH 3-WAYS AT EACH ENTRANCE.
2. TIE MACHINE ROOM LIGHT TO SAME CIRCUIT AS RECEPTACLE AHEAD OF GFI PROTECTION.
3. TIE PIT LIGHTS TO SAME CIRCUIT AS PIT RECEPTACLE AHEAD OF GFI PROTECTION.
4. ALL LEVELS OF STAIR LIGHTING SHALL OPERATE TOGETHER VIA LOW VOLTAGE RELAY PACK WITH MOTION SENSOR ON EACH LEVEL AS SHOWN ON PLANS.



LOWER LEVEL LIGHTING PLAN

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

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Lower Level Lighting Plan

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

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Harrisonburg, Virginia

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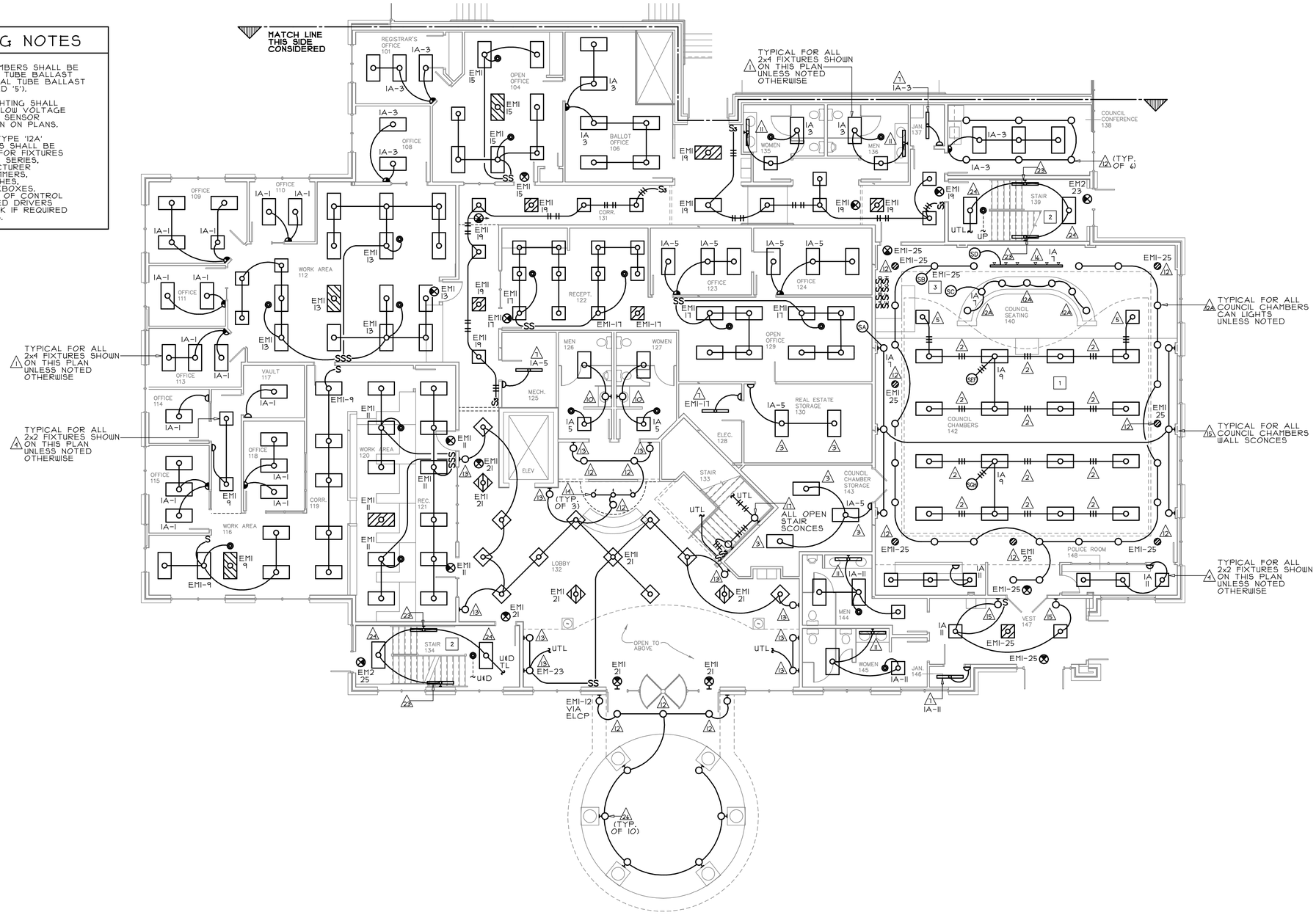
Date:	03/24/14
Project:	13093
File:	13093–E21
Drawn By:	WLA,RBP

E2.1

KEYED DRAWING NOTES

1. FIXTURES IN COUNCIL CHAMBERS SHALL BE DOUBLE SWITCHED, SINGLE TUBE BALLAST ON ONE CONTROL AND DUAL TUBE BALLAST ON ANOTHER (TYPE '2' AND '5').
2. ALL LEVELS OF STAIR LIGHTING SHALL OPERATE TOGETHER VIA LOW VOLTAGE RELAY PACK WITH MOTION SENSOR ON EACH LEVEL AS SHOWN ON PLANS.
3. SWITCHES B AND C FOR TYPE '12A' COUNCIL CHAMBERS LIGHTS SHALL BE LED DIMMERS APPROVED FOR FIXTURES SUPPLIED, LUTRON NOVA T SERIES, VERIFY WITH LED MANUFACTURER AND PROVIDE PROPER DIMMERS. DO NOT GANG WITH SWITCHES. PROVIDE SEPARATE BACKBOXES. PROVIDE PROPER NUMBER OF CONTROL WIRES FROM DIMMER TO LED DRIVERS AND PROVIDE RELAY PACK IF REQUIRED FOR FULL "OFF" OF LIGHTS.



FIRST FLOOR LIGHTING PLAN - PART A

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

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First Floor Lighting Plan - Part A

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

Proposed New City Hall

Harrisonburg, Virginia

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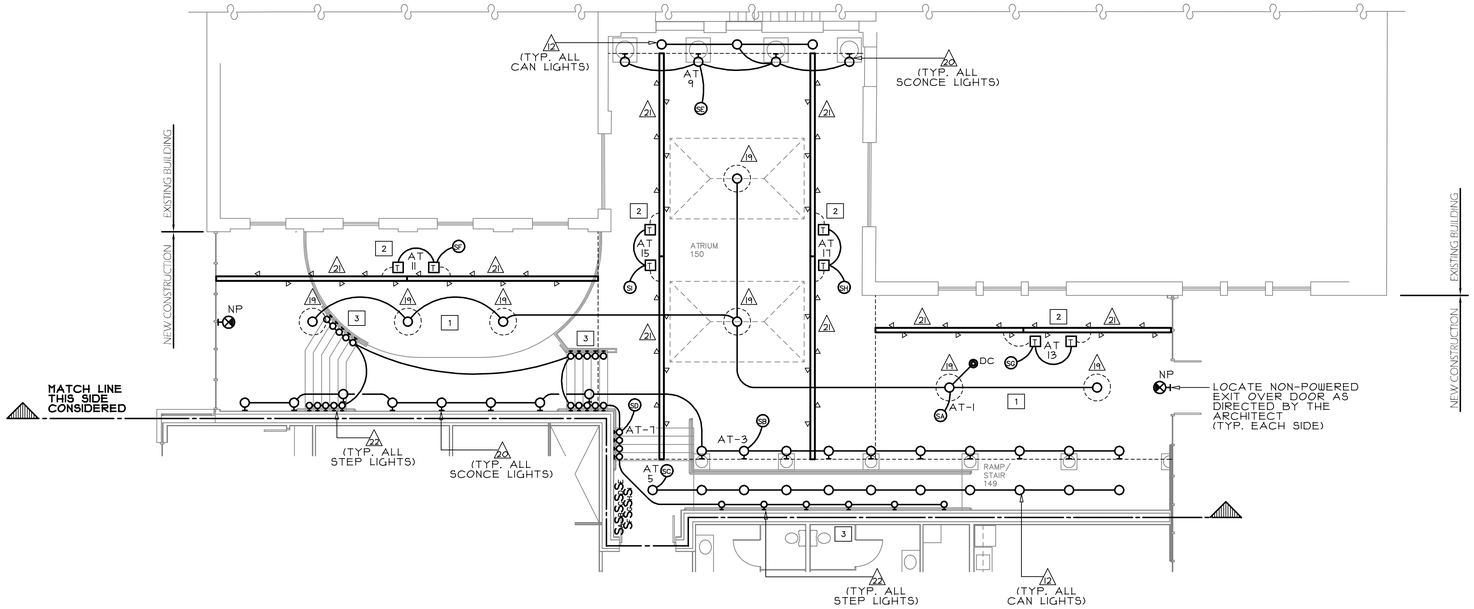
Date:	03/24/14
Project:	13093
File:	13093-E22A
Drawn By:	WLA,RBP

E2.2A

KEYED DRAWING NOTES

1. CHANDELIERS ARE TO BE HUNG FROM STRUCTURAL ELEMENTS OF ROOF SYSTEM. VERIFY WITH THE ARCHITECT AND ROOF SYSTEM SUPPLIER. WIRING METHODS SHALL RUN CONCEALED WHERE PRACTICAL AND/OR STRAIGHT AND TRUE WITH STRUCTURE WHERE APPROVED BY THE ARCHITECT.
2. CABLE LIGHTS SHALL SUSPEND FROM WALL TO WALL AS SHOWN. SUPPORT AND ATTACH FROM POINTS ON WALL AND FROM STRUCTURE OVERHEAD AS RECOMMENDED BY THE MANUFACTURER. LOCATE AND INSTALL TRANSFORMER BOXES AT LOCATIONS DIRECTED BY THE ARCHITECT AND AS RECOMMENDED BY THE MANUFACTURER.
3. COORDINATE STEP LIGHT BACKBOXES WITH CONCRETE POURS.



FIRST FLOOR LIGHTING PLAN - PART B

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

IECC LIGHTING COMPLIANCE

BASED ON 2009 IECC SECTION 505

INTERIOR:

AREA	49,614 SQ. FT.
TOTAL LIGHTING PROPOSED	47,700 WATTS
WATTS ALLOWED	49,614 WATTS
DESIGN BETTER THAN CODE	4%

EXTERIOR:

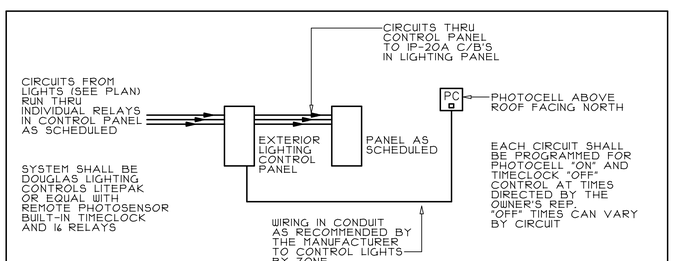
TOTAL LIGHTING PROPOSED	3546 WATTS
WATTS ALLOWED	5149 WATTS
SUPPLEMENTAL WATTAGE	1300 WATTS
DESIGN BETTER THAN CODE	43%

LIGHTING FIXTURE CONTROLS SYMBOLS LIST

	SENSOR SWITCH CMR-PDT-10 PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE CEILING MOUNT SENSOR EXTENDED RANGE TYPE
	SENSOR SWITCH CM-PDT-10 PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LOW VOLTAGE CEILING MOUNT SENSOR WITH LOW VOLTAGE CONTROL CABLE TO RESPECTIVE RELAY POWER PACK EXTENDED RANGE TYPE
2P	SENSOR SWITCH CMR-PDT-10-2P PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE CEILING MOUNT SENSOR EXTENDED RANGE TYPE, 2 POLE FOR MULTI-LEVEL CONTROL
	SENSOR SWITCH WSD-PDT PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE WALL MOUNT SENSOR AT 48" AFF
	SENSOR SWITCH WSD-PDT-2P PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE WALL MOUNT SENSOR AT 48" AFF, 2 POLE FOR SEPARATE FIXTURE CONTROL
	SENSOR SWITCH PP-20-2P RELAY POWER RELAY PACK ABOVE ACCESSIBLE CEILING
AFF	ABOVE FINISHED FLOOR

LIST NOTES

1. ALL SENSOR SWITCH COMPONENTS AND WIRING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
2. ADJUST SENSITIVITY, OVERRIDE SWITCHES (WHERE APPLICABLE) AND TIME DELAYS TO THE SATISFACTION OF THE OWNER. DISABLE MICROPHONIC FEATURE OF SENSORS WHERE AMBIENT NOISE CONFLICTS WITH PROPER CONTROL (IE: MECH. RMS.).



EXTERIOR LIGHTING WIRING SCHEMATIC

NO SCALE

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First Floor Lighting Plan - Part B
Scale: 1/8" = 1'-0"

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Harrisonburg, Virginia

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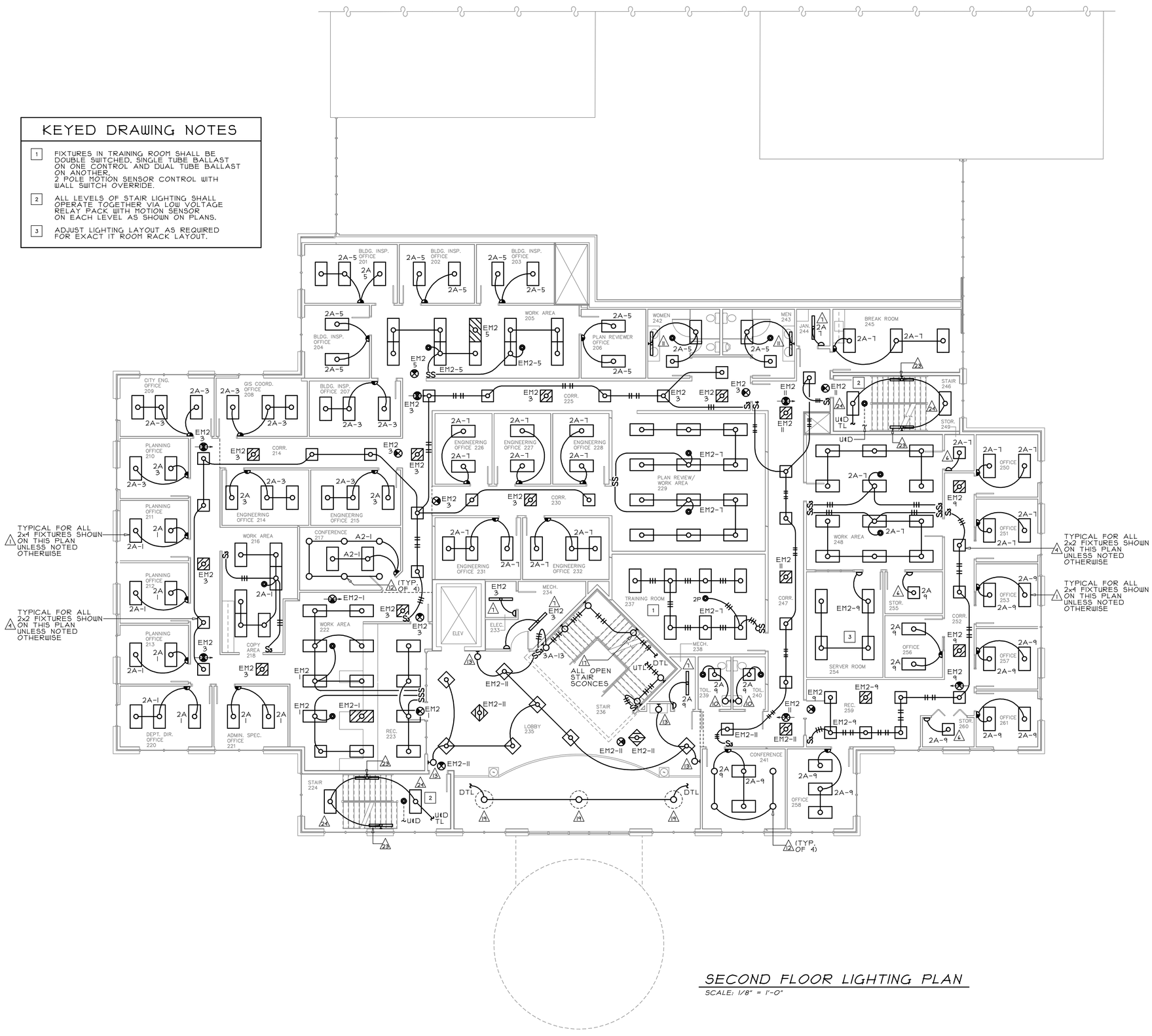
Date:	03/24/14
Project:	13093
File:	13093-E22B
Drawn By:	WLA,RBP

E2.2B

KEYED DRAWING NOTES

1. FIXTURES IN TRAINING ROOM SHALL BE DOUBLE SWITCHED. SINGLE TUBE BALLAST ON ONE CONTROL AND DUAL TUBE BALLAST ON ANOTHER. 2 POLE MOTION SENSOR CONTROL WITH WALL SWITCH OVERRIDE.
2. ALL LEVELS OF STAIR LIGHTING SHALL OPERATE TOGETHER VIA LOW VOLTAGE RELAY PACK WITH MOTION SENSOR ON EACH LEVEL AS SHOWN ON PLANS.
3. ADJUST LIGHTING LAYOUT AS REQUIRED FOR EXACT IT ROOM RACK LAYOUT.



SECOND FLOOR LIGHTING PLAN

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

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Second Floor Lighting Plan

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

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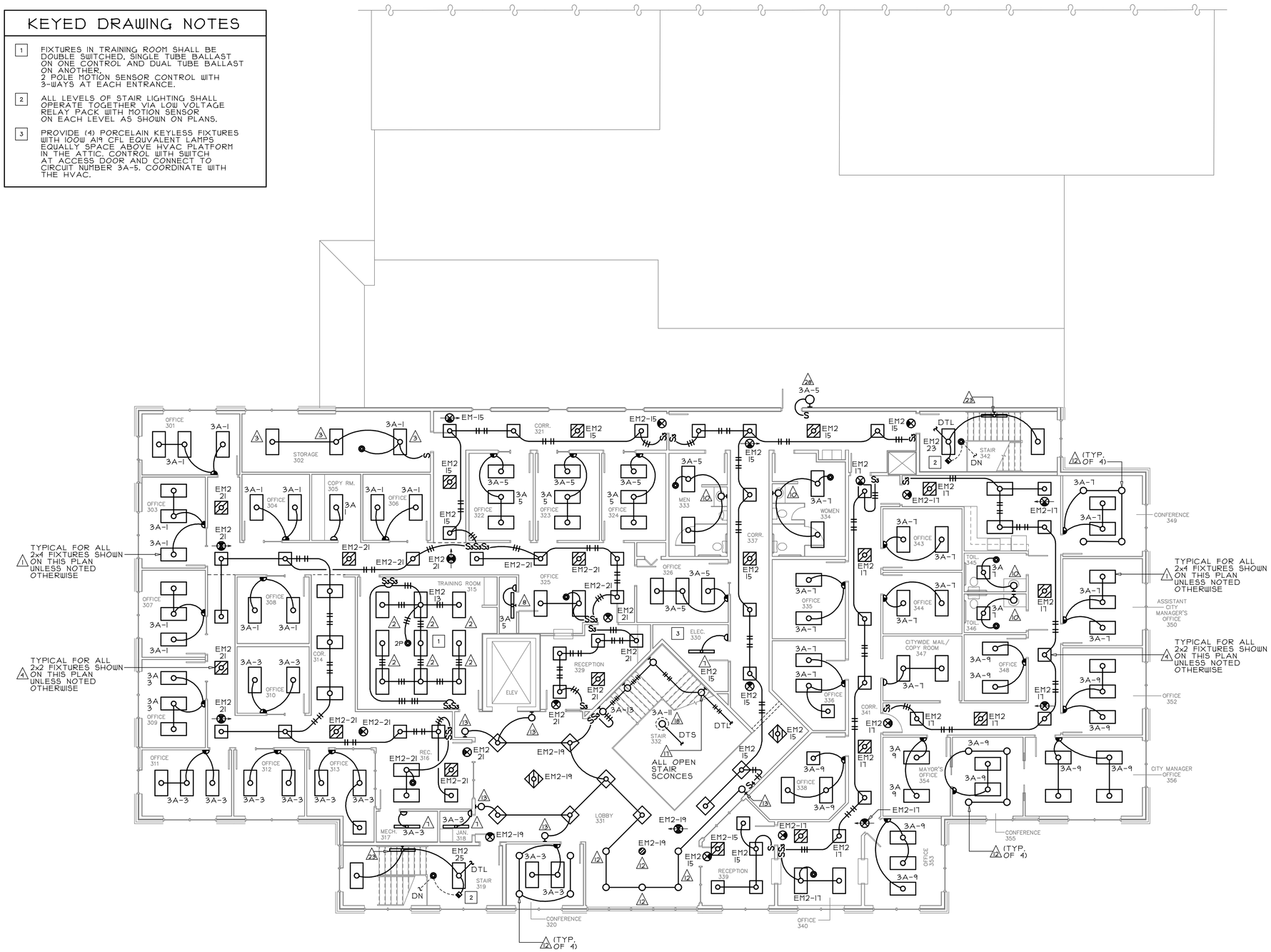
Date:	03/24/14
Project:	13093
File:	13093-E23
Drawn By:	WLA,RBP

E2.3

KEYED DRAWING NOTES

1. FIXTURES IN TRAINING ROOM SHALL BE DOUBLE SWITCHED, SINGLE TUBE BALLAST ON ONE CONTROL AND DUAL TUBE BALLAST ON ANOTHER. 2 POLE MOTION SENSOR CONTROL WITH 3-WAYS AT EACH ENTRANCE.
2. ALL LEVELS OF STAIR LIGHTING SHALL OPERATE TOGETHER VIA LOW VOLTAGE RELAY PACK WITH MOTION SENSOR ON EACH LEVEL AS SHOWN ON PLANS.
3. PROVIDE (4) PORCELAIN KEYLESS FIXTURES WITH 100W A19 CFL EQUVALENT LAMPS EQUALLY SPACE ABOVE HVAC PLATFORM IN THE ATTIC. CONTROL WITH SWITCH AT ACCESS DOOR AND CONNECT TO CIRCUIT NUMBER 3A-5. COORDINATE WITH THE HVAC.



THIRD FLOOR LIGHTING PLAN

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

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Third Floor Lighting Plan

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

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Harrisonburg, Virginia

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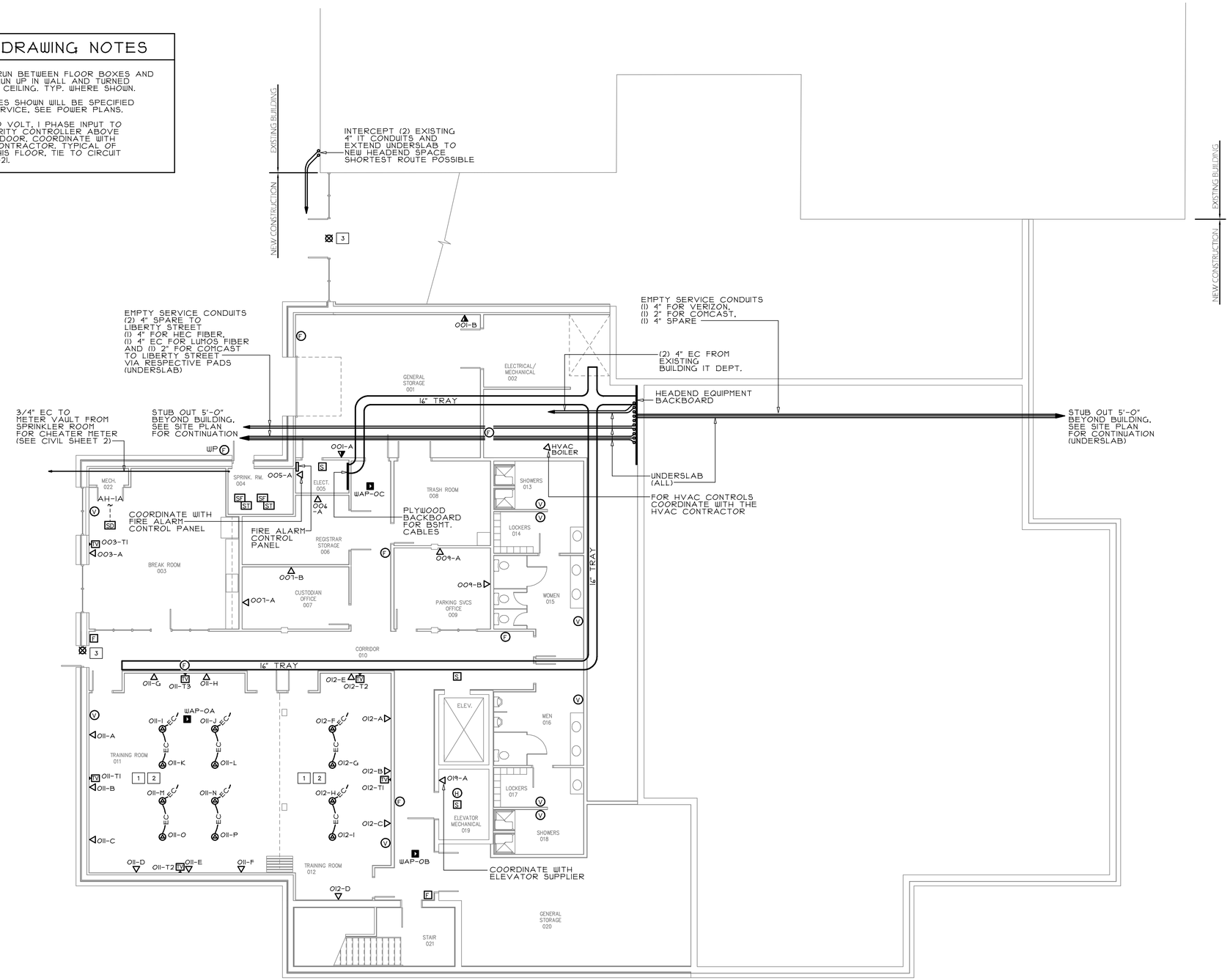
Date:	03/24/14
Project:	13093
File:	13093-E24
Drawn By:	WLA,RBP

E2.4

KEYED DRAWING NOTES

1. 1" CONDUIT RUN BETWEEN FLOOR BOXES AND A 1.25" EC RUN UP IN WALL AND TURNED OUT ABOVE CEILING. TYP. WHERE SHOWN.
2. FLOOR BOXES SHOWN WILL BE SPECIFIED AS DUAL SERVICE. SEE POWER PLANS.
3. PROVIDE 120 VOLT, 1 PHASE INPUT TO DOOR SECURITY CONTROLLER ABOVE CEILING AT DOOR. COORDINATE WITH SECURITY CONTRACTOR. TYPICAL OF 2 DOORS THIS FLOOR. TIE TO CIRCUIT NUMBER BA-21.



LOWER LEVEL SYSTEMS PLAN

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

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Lower Level Systems Plan
Scale: 1/8" = 1'-0"

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Harrisonburg, Virginia

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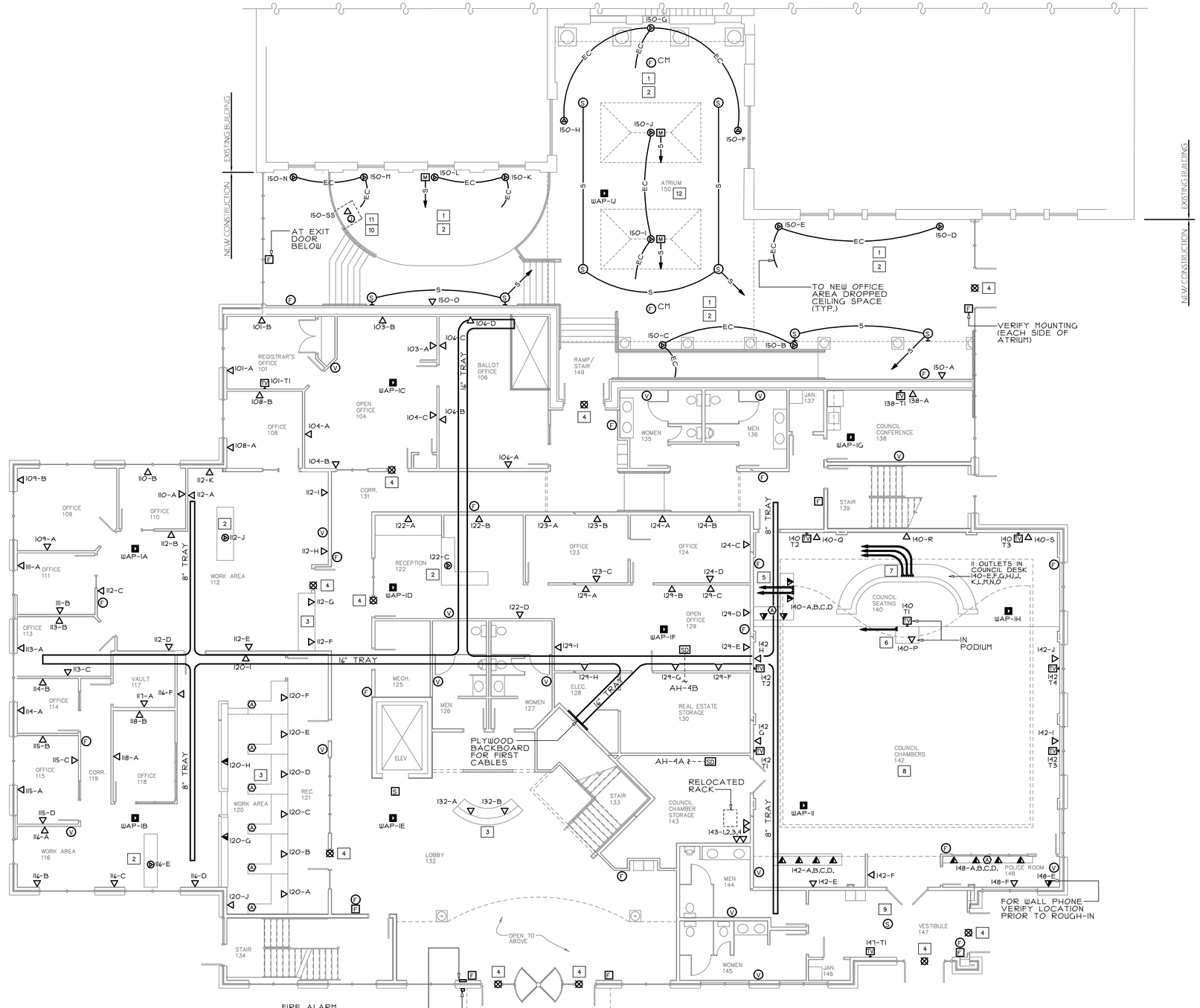
Date:	03/24/14
Project:	13093
File:	13093-E31
Drawn By:	WLA,RBP

E3.1

KEYED DRAWING NOTES

1. 1" CONDUIT RUN BETWEEN FLOOR BOXES AND A 1.25" EC RUN UP IN WALL AND TURNED OUT ABOVE CEILING, TYP. WHERE SHOWN.
2. FLOOR BOXES SHOWN WILL BE SPECIFIED AS DUAL SERVICE. SEE POWER PLANS.
3. LOCATE OUTLETS AND RUN AN INDIVIDUAL 3/4" CONDUIT TO EACH OUTLET THRU THE CASEWORK AS DIRECTED BY THE ARCHITECT.
4. PROVIDE 120 VOLT, 1 PHASE INPUT TO DOOR SECURITY CONTROLLER ABOVE CEILING AT DOOR. COORDINATE WITH SECURITY CONTRACTOR. TYPICAL OF 10 DOORS THIS FLOOR. BALANCE ON (4) CIRCUITS NUMBER 1A-25,27,29,31.
5. IN ADDITION TO THE INDIVIDUAL 3/4" CONDUITS FOR THE OUTLETS SHOWN, RUN (4) 1.5" EC'S FROM CLERK'S DESK UP IN WALL TO ABOVE CEILING. COORDINATE STUBS-UPS WITH CASEWORK CONFIGURATION. SEE ARCHITECTURAL DRAWINGS.
6. IN ADDITION TO THE INDIVIDUAL 3/4" CONDUITS FOR THE OUTLETS SHOWN, RUN (2) 1.5" EC'S FROM SPEAKER PODIUM UP IN WALL TO ABOVE CEILING. COORDINATE STUB-UPS WITH CASEWORK CONFIGURATION. SEE ARCHITECTURAL DRAWINGS.
7. THE COUNCIL DESK IS BEING RELOCATED FROM THE EXISTING BUILDING AND IS EQUIPPED WITH (11) DATA OUTLETS, (11) MICROPHONE OUTLETS AND (1) DURESS ALARM BUTTONS. RUN (6) 1.5" EC'S UP IN WALL TO ABOVE CEILING. COORDINATE STUB-UPS WITH EXISTING CASEWORK DETAILS.
8. IN GENERAL ALL WIRING SYSTEMS IN PLACE AT THE EXISTING COUNCIL CHAMBERS ARE TO BE RELOCATED AND PLACED BACK IN OPERATION IN THE NEW COUNCIL CHAMBERS. CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF WORK REQUIRED. INCLUDING BUT NOT LIMITED TO SOUND, VIDEO, DURESS ALARMS, TV BROADCASTING. CLOSE COORDINATION WILL BE REQUIRED WITH THE CITY'S IT DEPARTMENT. RELOCATION AND REACTIVATION OF ALL SYSTEM COMPONENTS MUST BE MADE IN A 2 WEEK PERIOD BETWEEN COUNCIL MEETING AND BROADCASTS.
9. PROVIDE SPEAKER IN VESTIBULE CEILING AND TIE TO COUNCIL CHAMBERS SOUND SYSTEM. SPEAKER SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
10. 8"x8"x4" ATRIUM SOUND SYSTEM JUNCTION BOX BEHIND ACCESS DOOR IN PLATFORM FACE. TERMINATE ALL 1" CONDUITS FROM ATRIUM SPEAKERS AND MICROPHONE OUTLETS IN THIS BOX.
11. PROVIDE SOUND SYSTEM FOR THE ATRIUM. BOSE IZA 190HZ INTEGRATED ZONE AMPLIFIER WITH DS16F FLUSH MOUNT CEILING SPEAKERS AND DS16S WALL MOUNT SPEAKERS AT LOCATIONS SHOWN ON THE PLANS. PROVIDE (1) HANDHELD CORDED MICROPHONE AND (1) WIRELESS HEADSET MICROPHONE. PROVIDE ALL CABLE, JACKS, EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE ATRIUM SOUND SYSTEM, BALANCE TO INDUSTRY STANDARDS AND PROVIDE HANDS-ON TRAINING TO THE OWNER'S REPRESENTATIVE. SYSTEM SHALL INCLUDE MATCHING TUNER AND CD PLAYER. COORDINATE WITH SPACE PROVIDED BELOW PLATFORM.
12. ALL CONDUITS AND CABLES SHALL BE RUN CONCEALED IN ATRIUM AREA. EXPOSED CONDUIT RUNS MUST BE APPROVED BY THE ARCHITECT AND SHALL BE STRAIGHT AND TRUE WITH STRUCTURE.



FIRST FLOOR SYSTEMS PLAN

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

MATHER ARCHITECTS, P.C.
373 Neff Ave, Harrisonburg, VA 22801
Phone Number: (540) 442-1400

MEI engineering, inc.
mechanical–electrical–industrial consultants
Harrisonburg, VA.
(540) 432–6272
www.MEIengineeringinc.com

First Floor Systems Plan

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

Proposed New City Hall
Harrisonburg, Virginia

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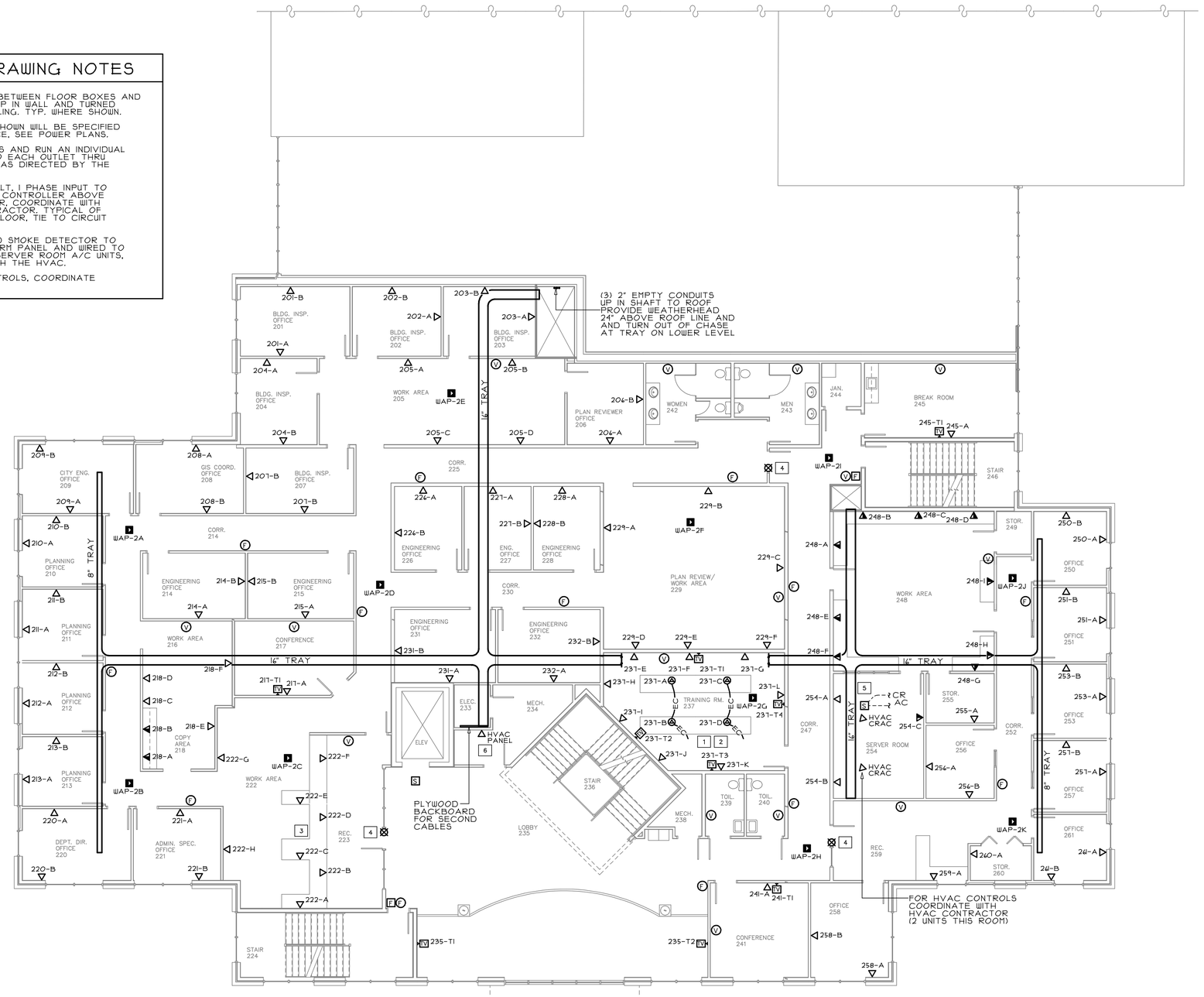
Date:	03/24/14
Project:	13093
File:	13093–E32
Drawn By:	WLA,RBP

E3.2

KEYED DRAWING NOTES

1. 1" CONDUIT RUN BETWEEN FLOOR BOXES AND A 1.25" EC RUN UP IN WALL AND TURNED OUT ABOVE CEILING. TYP. WHERE SHOWN.
2. FLOOR BOXES SHOWN WILL BE SPECIFIED AS DUAL SERVICE. SEE POWER PLANS.
3. LOCATE OUTLETS AND RUN AN INDIVIDUAL 3/4" CONDUIT TO EACH OUTLET THRU THE CASEWORK AS DIRECTED BY THE ARCHITECT.
3. PROVIDE 120 VOLT, 1 PHASE INPUT TO DOOR SECURITY CONTROLLER ABOVE CEILING AT DOOR. COORDINATE WITH SECURITY CONTRACTOR. TYPICAL OF 3 DOORS THIS FLOOR. TIE TO CIRCUIT NUMBER 2A-19.
5. CEILING MOUNTED SMOKE DETECTOR TO SOUND FIRE ALARM PANEL AND WIRED TO SHUT DOWN (2) SERVER ROOM A/C UNITS. COORDINATE WITH THE HVAC.
6. FOR HVAC CONTROLS, COORDINATE WITH THE HVAC.



SECOND FLOOR SYSTEMS PLAN

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

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Second Floor Systems Plan

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

Proposed New City Hall

Harrisonburg, Virginia

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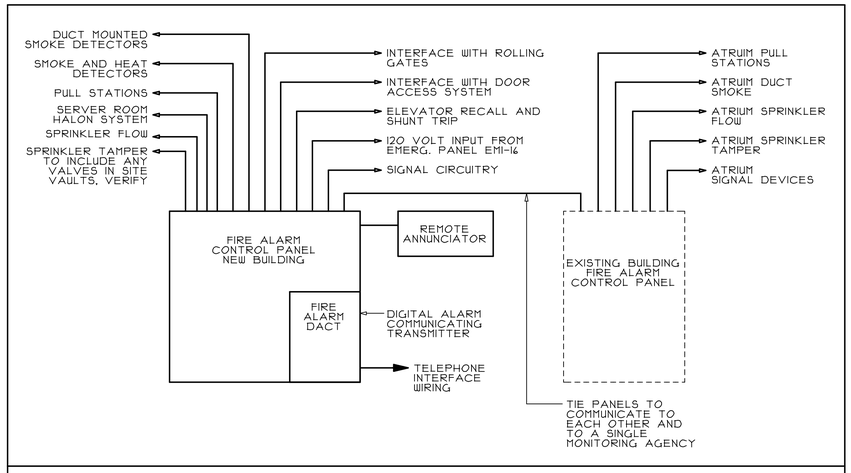
Date:	03/24/14
Project:	13093
File:	13093-E33
Drawn By:	WLA,RBP

E3.3

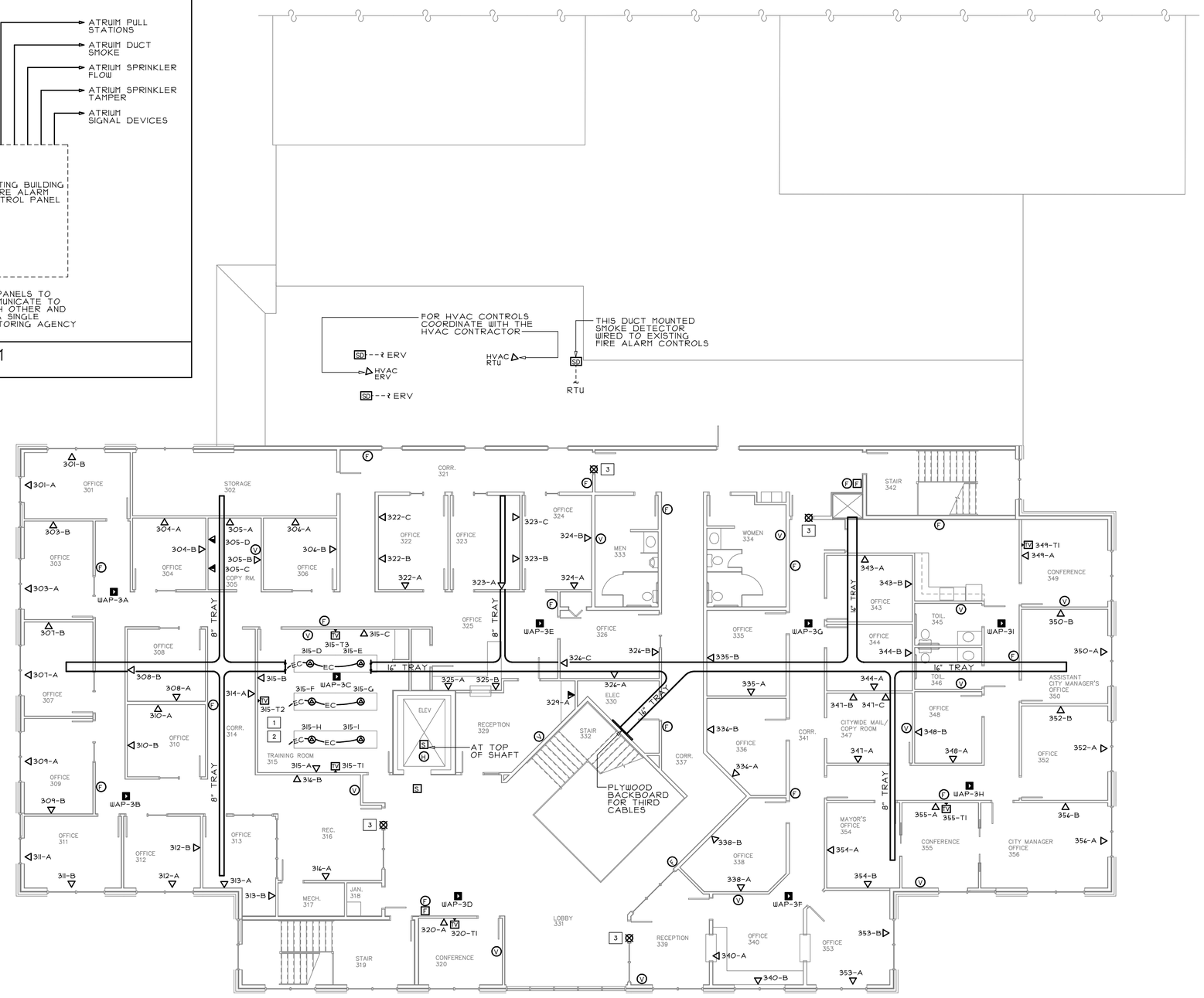


FIRE ALARM RISER DIAGRAM

NOT TO SCALE

KEYED DRAWING NOTES

1. 1" CONDUIT RUN BETWEEN FLOOR BOXES AND A 1.25" EC RUN UP IN WALL AND TURNED OUT ABOVE CEILING. TYP. WHERE SHOWN.
2. FLOOR BOXES SHOWN WILL BE SPECIFIED AS DUAL SERVICE. SEE POWER PLANS.
3. PROVIDE 120 VOLT, 1 PHASE INPUT TO DOOR SECURITY CONTROLLER ABOVE CEILING AT DOOR. COORDINATE WITH SECURITY CONTRACTOR. TYPICAL OF 4 DOORS THIS FLOOR. BALANCE ON (2) CIRCUITS NUMBER 3A-19,21.



THIRD FLOOR SYSTEMS PLAN

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

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Third Floor Systems Plan
Scale: 1/8" = 1'-0"

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Harrisonburg, Virginia

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Date:	03/24/14
Project:	13093
File:	13093–E34
Drawn By:	WLA,RBP

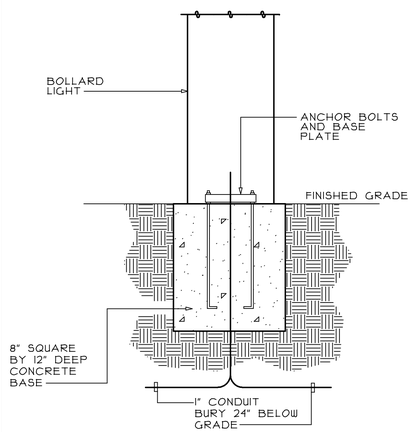
E3.4

SITE LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER/CATALOG NO.	LAMPS NO.	LAMPS TYPE	MOUNTING	REMARKS
PL	HOLOPHANE MPU400PMPMTA4	1	400W MET.HAL.	POLE, SEE DETAIL FOR SPECIFICATION	NOTE 1
FL	HADCO FX2-160-T-X-M-N-A-5-N-A-V-G	160W LED		GROUND	W/ VANDAL SHIELD AND AND GLARE SHIELD
BL	GARDCO BRM830-42-CWL-NW-360-UNV-X-SPR	41W LED		BOLLARD	
FP	HADCO FXI-80-T-X-5-N-A-5-N-A-V-G	80W LED		GROUND	W/ VANDAL SHIELD AND AND GLARE SHIELD

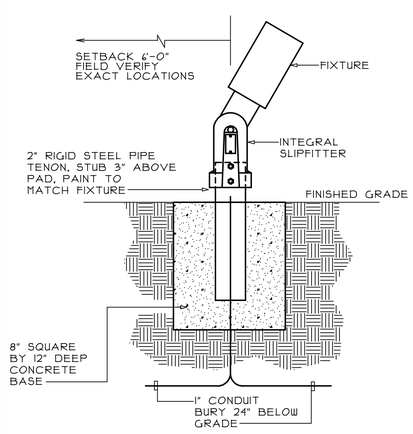
SCHEDULE NOTES

1. FIXTURE IS SPECIFIED TO MATCH CITY STREETSCAPE STANDARD. SUBSTITUTIONS MUST BE APPROVED BY THE CITY WORKS DEPT. PRIOR TO BID.
2. REFER TO RESPECTIVE DETAILS FOR CONCRETE BASES.
3. COLORS OF ALL FIXTURES, POLES AND FITTINGS SHALL BE SELECTED BY THE ARCHITECT. SUBMITTAL SHALL INCLUDE COLOR CHARTS.
4. ALL FIXTURES SHALL BE LOCATED AND AIMED TO MEET THE FINAL APPROVAL OF THE ARCHITECT AND THE CIVIL ENGINEER, COORDINATING WITH PLANTINGS AND THE LIKE.



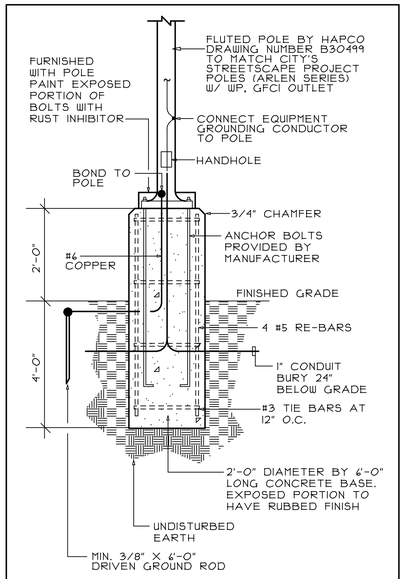
BOLLARD LIGHT BASE DETAIL

NOT TO SCALE



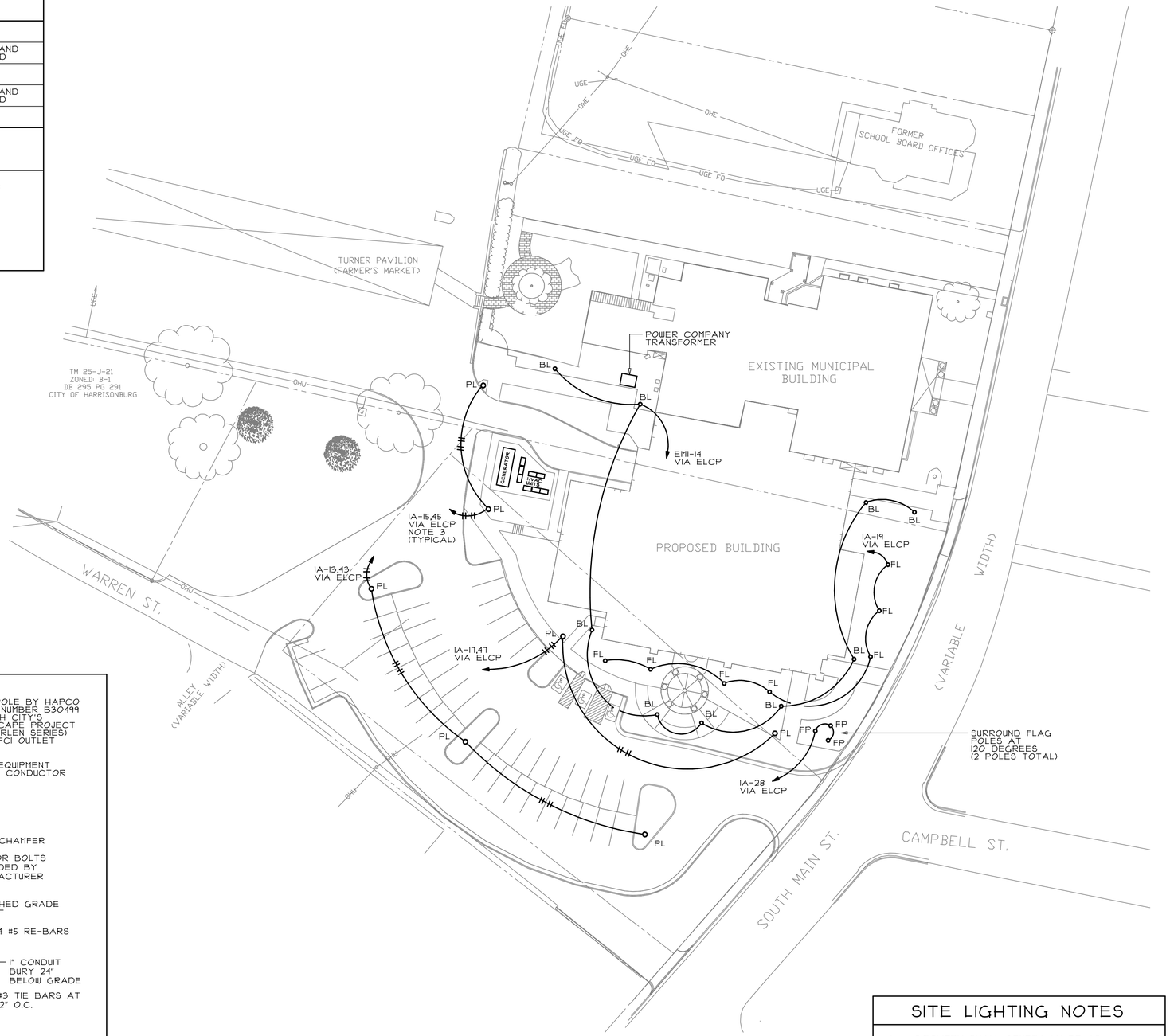
GROUND MOUNTED FIXTURE BASE DETAIL

NO SCALE



POLE BASE DETAIL

NO SCALE



SITE LIGHTING/ELECTRICAL PLAN

SCALE: 1" = 30'-0"

SITE LIGHTING NOTES

1. CIRCUITRY SHALL GENERALLY BE AS SHOWN ON PLAN. CONTRACTOR MAY REWORK TO FIND BEST FIELD ROUTING. WIRING FOR CIRCUITS UP TO 100'-0" IN LENGTH SHALL BE #10 AWG. WIRING FOR CIRCUITS UP TO 300'-0" IN LENGTH TO BE #8 AWG AND CIRCUITS OVER 300'-0" SHALL BE #6 AWG.
2. MINIMUM SIZE CONDUIT SHALL BE 1". PULL GROUND IN ALL CONDUITS.
3. POLE LIGHTS ARE FURNISHED WITH A WP, GFCI DUPLEX NEAR TOP. WIRE TO SECOND CIRCUIT NOTED. CIRCUIT SHALL BYPASS ELCP.

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Electrical Site Plan
Scale: 1" = 30'-0"

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Harrisonburg, Virginia

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Date:	03/24/14
Project:	13093
File:	13093-E41
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E4.1