

GENERAL NOTES:

- A. DRAWINGS INDICATE EXISTING CONDITIONS AS THEY WERE PLANNED UNDER PREVIOUS CONSTRUCTION PROJECTS AND ARE INCLUDED FOR REFERENCE. ACTUAL CONDITIONS MAY VARY FROM PLANNED CONDITIONS. EXAMINE THE SITE CONDITIONS PRIOR TO BIDDING AND DETERMINE ACTUAL CONDITIONS. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND ELECTRICAL DEMOLITION DRAWINGS TO BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER AND ARCHITECT PRIOR TO BID SUBMITTAL.
- B. A FIELD SURVEY WAS CONDUCTED TO VERIFY THE GENERAL ACCURACY OF EXISTING PLANS. NO ATTEMPT HAS BEEN MADE TO FIND CHANGES WHICH OCCUR IN CONCEALED AREAS SUCH AS ABOVE INACCESSIBLE CEILINGS AND IN WALLS. PERFORM MINOR MODIFICATIONS AND ADDITIONS TO CORRECT FOR THESE HIDDEN CONDITIONS TO ALLOW FOR COMPLETION OF WORK WITH NO ADDITIONAL COST TO THE OWNER.
- C. PROVIDE COORDINATION WALK THROUGH WITH THE OWNER AND OWNER REPRESENTATIVE TO IDENTIFY EQUIPMENT TO BE SALVAGED AND TURNED OVER PRIOR TO START OF DEMOLITION. REMOVE AND STOCK PILE EQUIPMENT FOR THE OWNER TO REMOVE FROM SITE. OTHER EXISTING DEVICES, LIGHT FIXTURES, EQUIPMENT, CONDUIT AND CABLING BEING DEMOLISHED WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DISPOSE OF IN ACCORDANCE WITH THE LOCAL AND FEDERAL REGULATIONS.
- D. IDENTIFY DAMAGE TO EXISTING EQUIPMENT BEING REUSED OR RELOCATED PRIOR TO THE START OF DEMOLITION. REMOVE AND STORE DEVICES SHOWN TO BE REUSED OR RELOCATED UNTIL THE TIME OF REINSTALLATION. REPLACE DEVICES DAMAGED DURING CONSTRUCTION.
- E. DE-ENERGIZE ELECTRICAL EQUIPMENT PRIOR TO DEMOLITION. DISCONNECT POWER TO MECHANICAL EQUIPMENT AND POWERED BUILDING EQUIPMENT NOTED FOR DEMOLITION OR REMOVAL BY OTHERS.
- F. DEMOLISH ELECTRICAL DEVICES, CONDUIT, WIRE, AND EQUIPMENT IN WALLS, CEILINGS, AND FLOORS. REMOVE CONDUIT AND WIRING BACK TO ELECTRICAL DEVICES THAT REMAIN, BACK TO THE SOURCE OR PROVIDE TEMPORARY SUPPORT FOR REUSE UPON COMPLETION OF DEMOLITION.
- G. COORDINATE THE DISCONNECTION OF LOW VOLTAGE SYSTEMS CABLES WITH THE OWNER AND REMOVE FROM UTILIZATION POINT TO SOURCE.

KEY NOTES:

- ① REMOVE AND SALVAGE FIRE ALARM REMOTE PANEL FOR RE-USE.
- ② REMOVE AND SALVAGE INTERCOM AND CARD READER FOR RE-USE. DEMOLISH CONDUCTORS BACK TO SOURCE, CONTROLLERS TO REMAIN.
- ③ DEMOLISH ELECTRICAL PANEL. PANEL IS BEING REPLACED, SALVAGE CONDUIT AS APPLICABLE FOR RE-USE.
- ④ DEMOLISH ELECTRICAL CONNECTION TO EQUIPMENT BEING REMOVED BY MECHANICAL CONTRACTOR.

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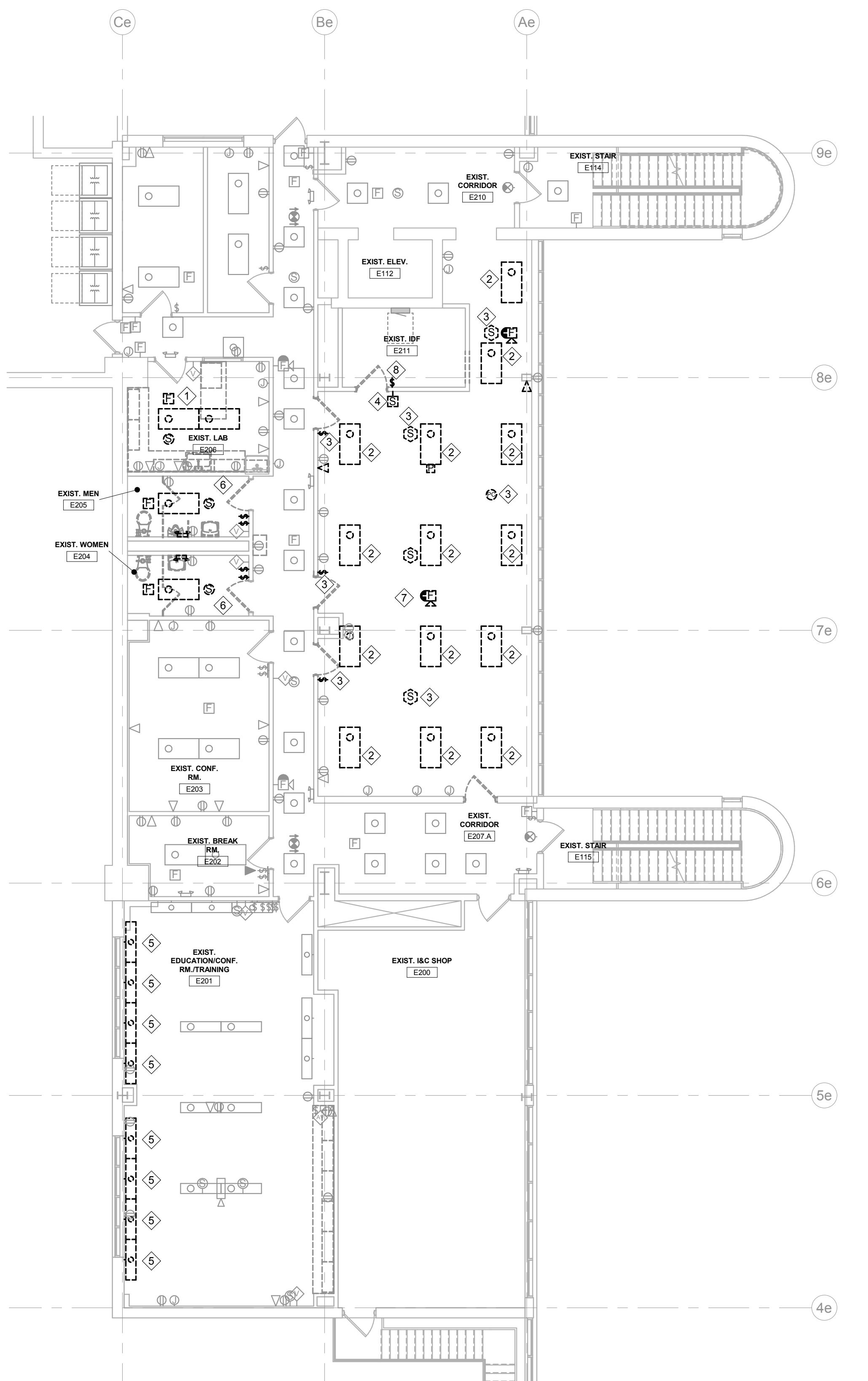
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Dustin D. Mueller
52622
12/09/25
NUMBER DATE

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01 ISSUE FOR BID 12/09/25

OWFF - MAIN &
MEZZANINE LEVEL
ELECTRICAL DEMOLITION
PLAN

SHEET NUMBER

ED1.1



① ELECTRICAL DEMOLITION - OFFICE SECOND LEVEL
1/8" = 1'-0"

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KEY NOTES:

- ① DEMOLITION WORK IN THIS SPACE TO BE PART OF ALTERNATE A-1.
- ② SALVAGE LIGHTS FOR RE-USE.
- ③ SALVAGE nLIGHT LIGHTING CONTROL FOR RE-USE.
- ④ REMOVE AND SALVAGE CARD READER FOR RE-USE.
- ⑤ REMOVE AND SALVAGE LIGHTS UNDER ARCHITECTURAL ALTERNATE. CIRCUITS TO REMAIN AND BE RE-USSED. SEE E1.2 FOR MORE INFORMATION.
- ⑥ SALVAGE SMOKE DETECTOR AND SPEAKER FOR RE-INSTALLATION.
- ⑦ SALVAGE FIRE ALARM DEVICES FOR RE-USE.
- ⑧ REMOVE LIGHTING CONTROL SWITCH FOR RELOCATION. SEE E1.2 FOR MORE INFORMATION.

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ROCHESTER, MINNESOTA

OWEF - SECOND LEVEL
ELECTRICAL DEMOLITION
PLAN

SHEET NUMBER

ED1.2

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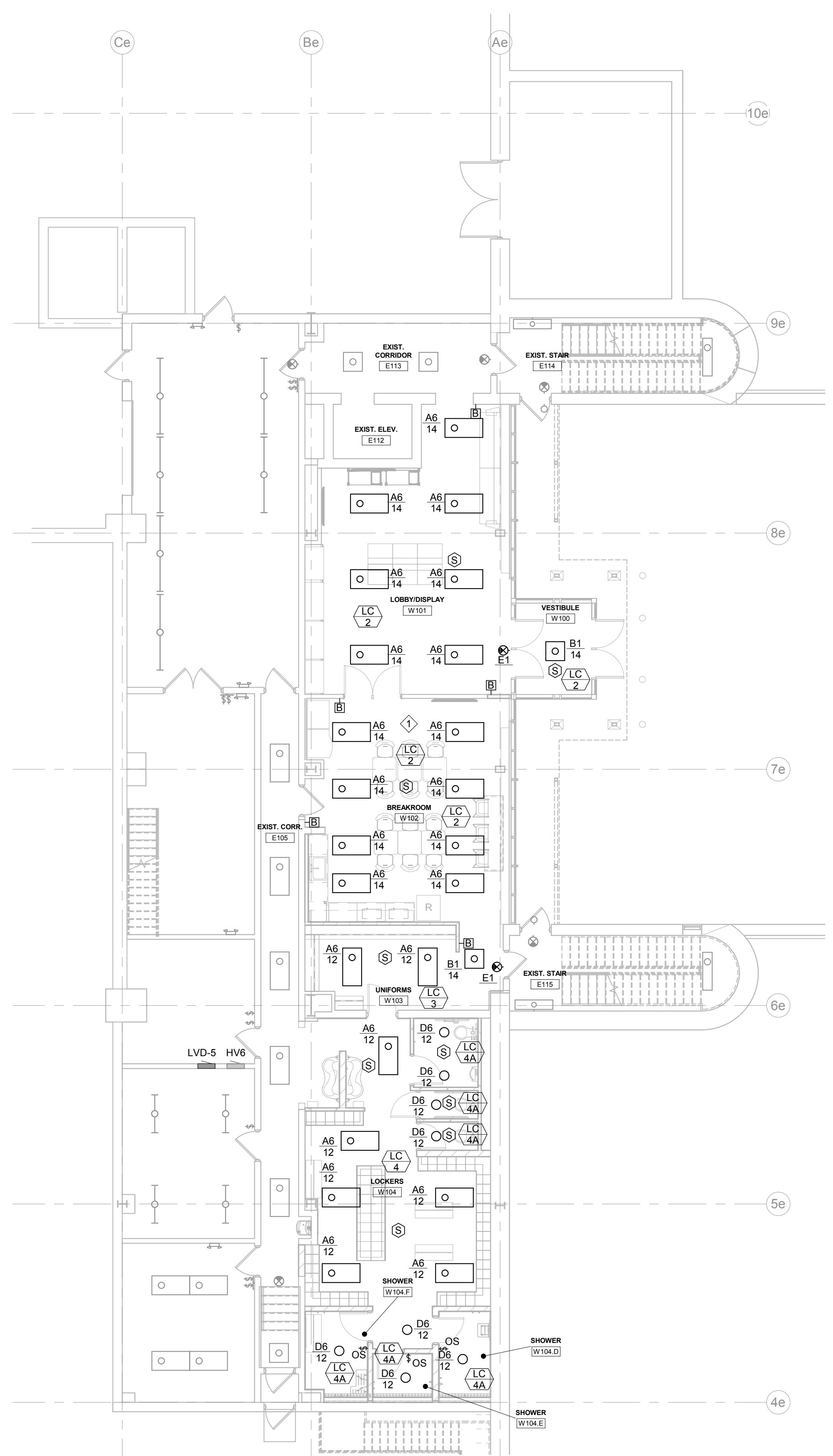
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GENERAL NOTES:

- A. ALL LIGHTS, NIGHT ENABLED UNLESS OTHERWISE NOTED.
- B. SWITCHES ARE NIGHT nPOD DX UNLESS OTHERWISE NOTED.

KEY NOTES:

- ① UTILIZE EXISTING LIGHTING CIRCUIT FOR NEW LIGHTS.

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OWEF - MAIN &
MEZZANINE LEVEL
LIGHTING PLAN

SHEET NUMBER

E1.1

OF

SHEETS

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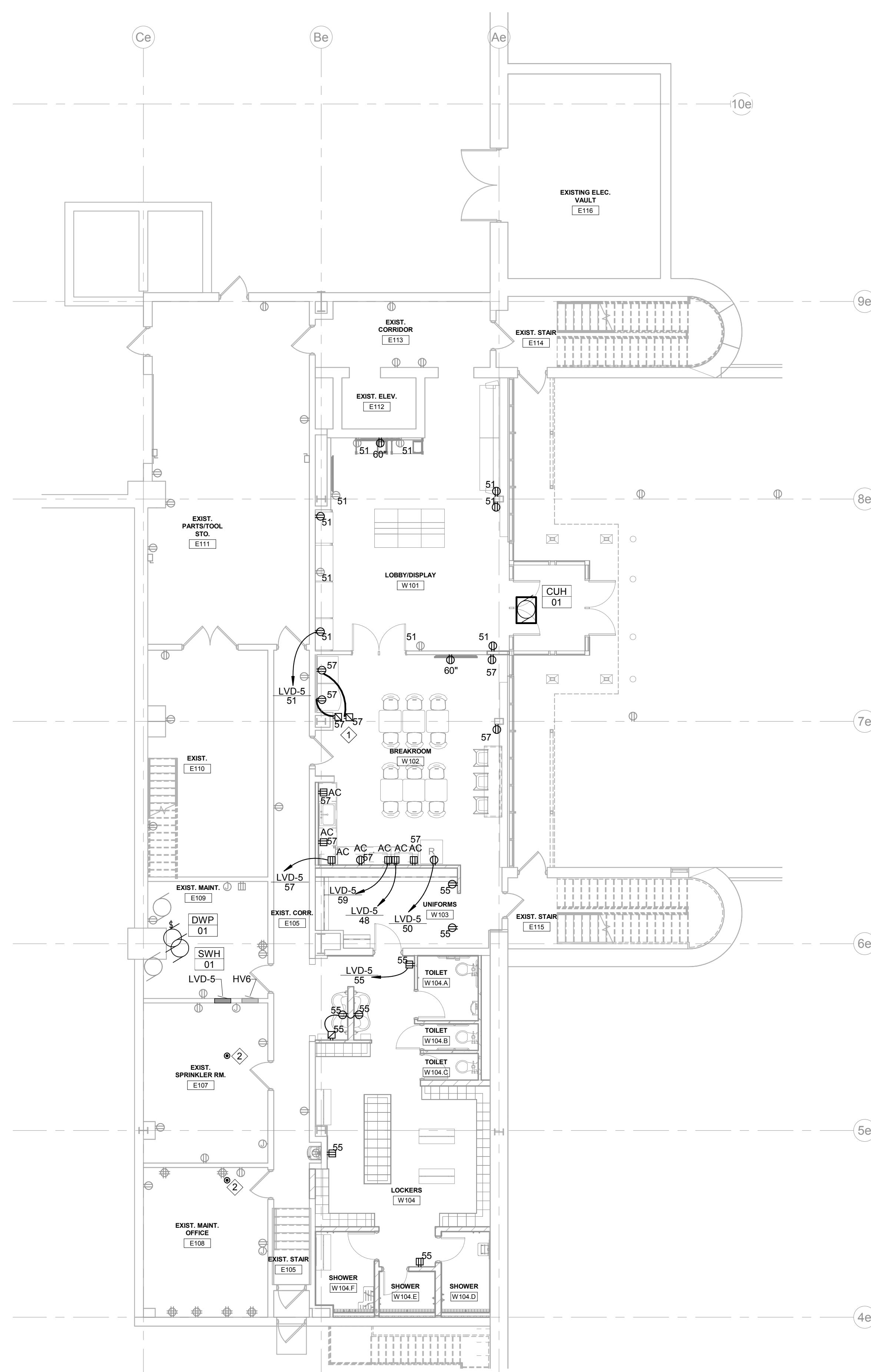
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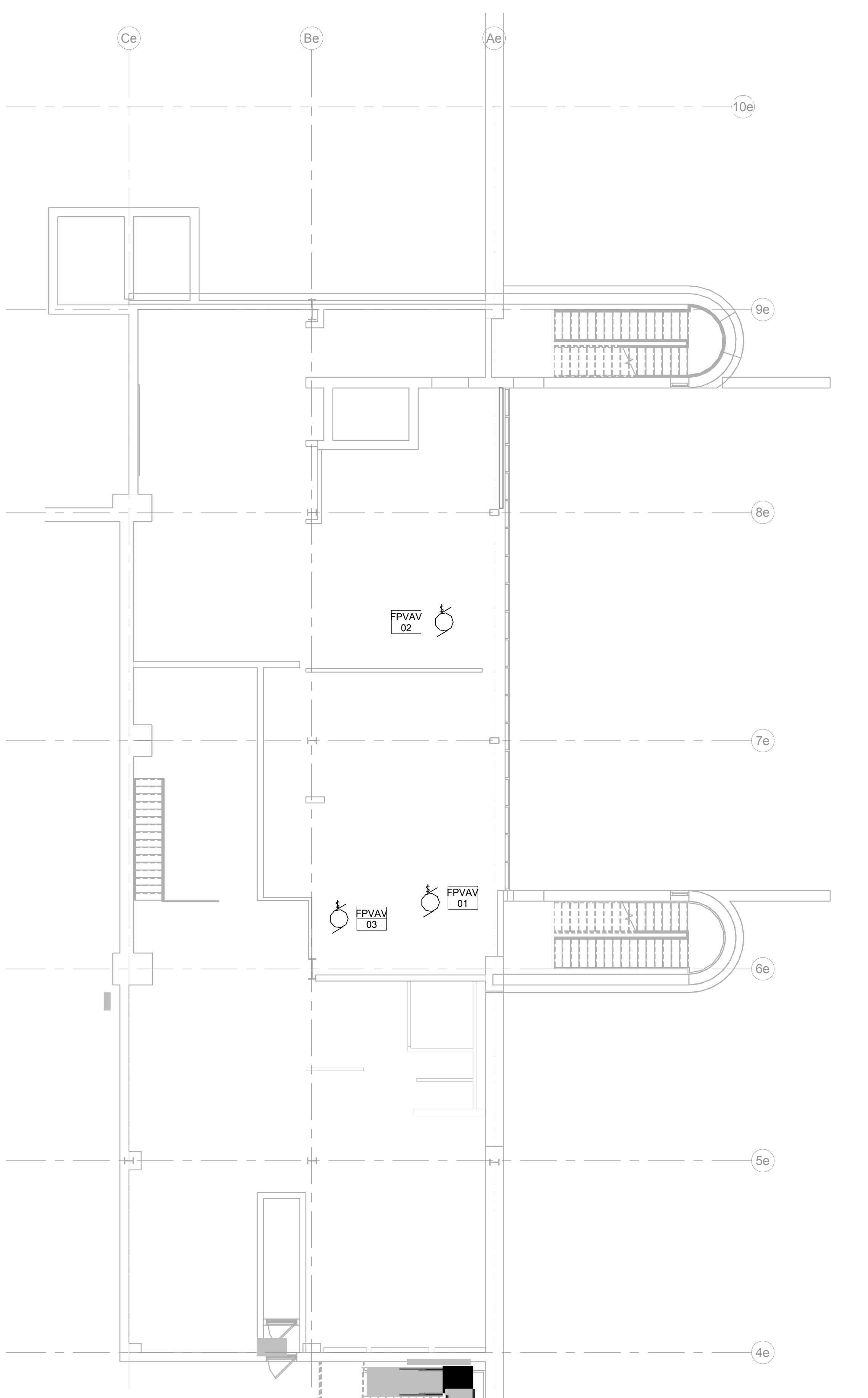
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OWEF - MAIN &
MEZZANINE LEVEL
POWER PLAN
SHEET NUMBER

E2.1



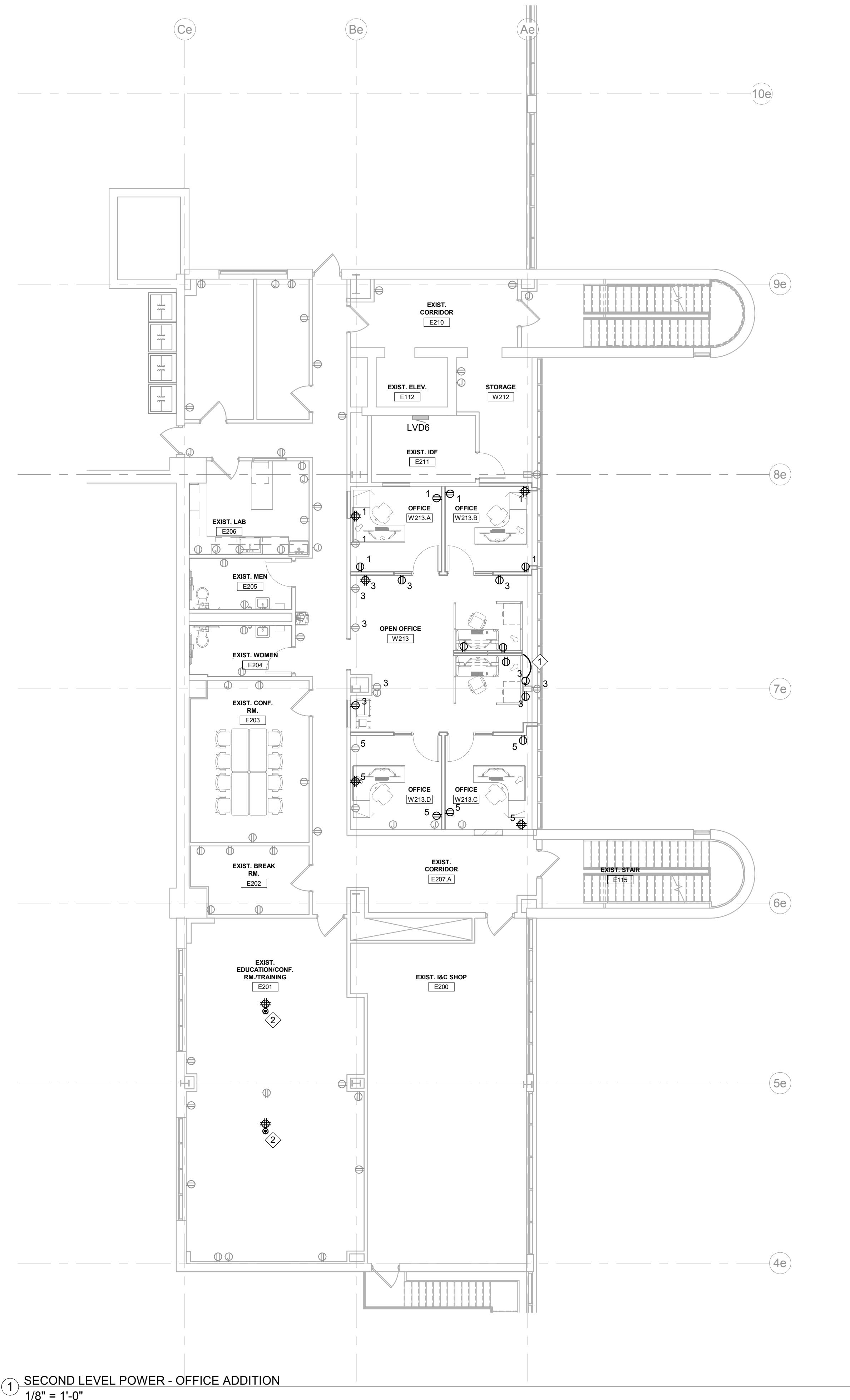
① MAIN LEVEL POWER - OFFICE ADDITION
1/8" = 1'-0"



② OWEF - MEZZANINE LEVEL POWER PLAN
1/8" = 1'-0"

KEY NOTES:

- ① PROVIDE DEAD FRONT GFCI FOR VENDING MACHINES.
- ② LOCATION OF FLOORBOXES ABOVE. ROUTE CONDUITS TO THIS LOCATION TO ROUTE POWER/DATA.

**KEY NOTES:**

- ① PROVIDE JUNCTION BOX AND WHIP TO ALLOW CONNECTION MODULAR FURNITURE.
- ② PROVIDE LEGRAND 6AT SERIES OR SIMILAR FLOOR POKETHROUGH, CIRCUIT TO LOCAL RECEPTACLES.

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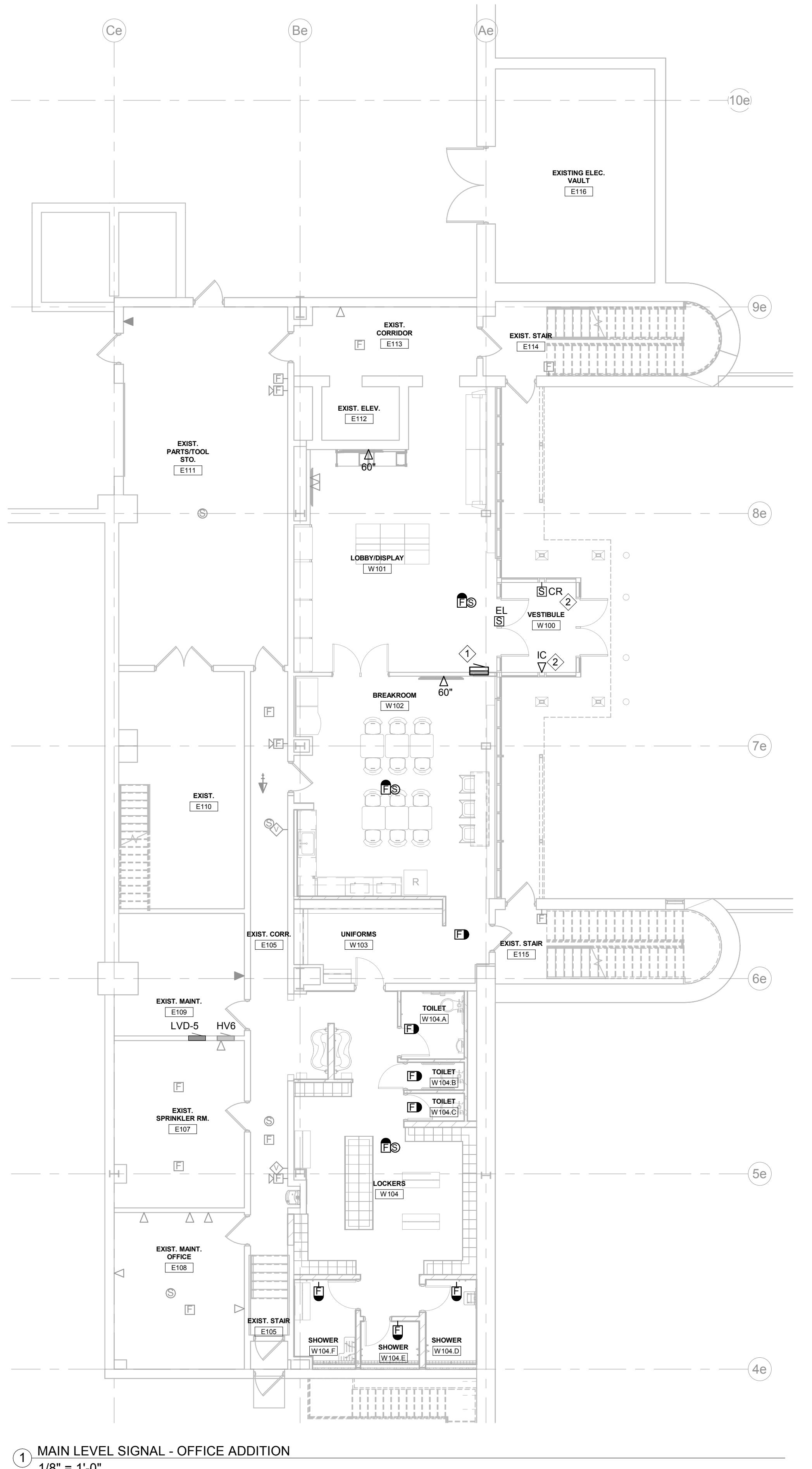
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OWEF - SECOND LEVEL
POWER PLAN
SHEET NUMBER

E2.2



GENERAL NOTES:

- A. ROUTE ALL DATA CABLES TO EXISTING IDF ROOM E211 ON 2ND LEVEL.

KEY NOTES:

- ① NEW LOCATION FOR FIRE ALARM ANNUNCIATOR PANEL SALVAGED DURING DEMOLITION.
- ② NEW LOCATION FOR INTERCOM AND CARD READER/DOOR LOCK. PROVIDE NEW CONDUCTORS AS APPLICABLE. COORDINATE WITH EXISTING SYSTEM HEADED.

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OWEF - MAIN LEVEL
SIGNAL PLAN

SHEET NUMBER

E3.1

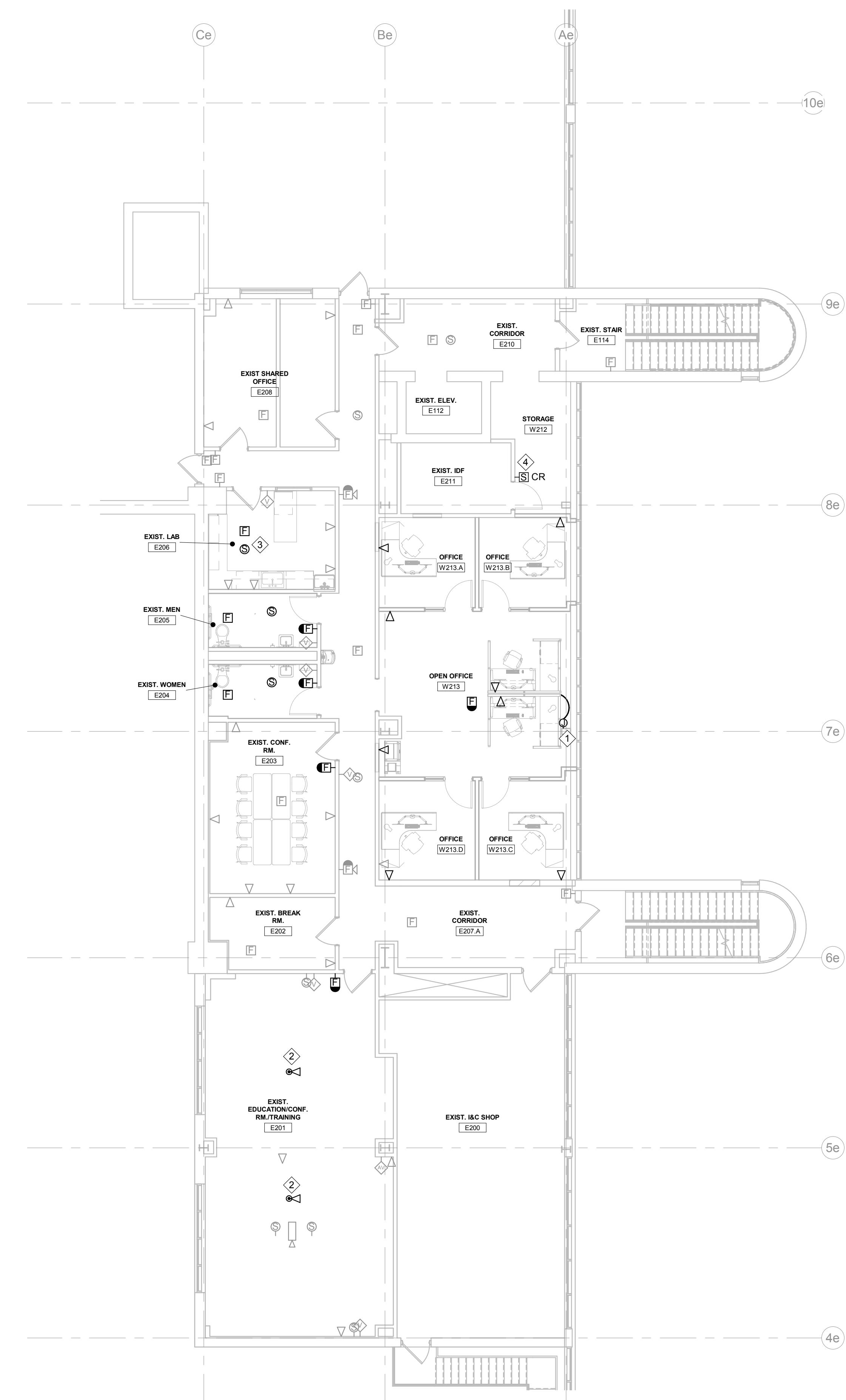
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① SECOND LEVEL SIGNAL - OFFICE ADDITION
1/8" = 1'-0"

GENERAL NOTES:

- A. ROUTE ALL DATA CABLES TO EXISTING IDF ROOM E211 ON 2ND LEVEL.

KEY NOTES:

- ① PROVIDE JUNCTION BOX AND WHIP CONNECTION FOR MODULAR FURNITURE.
- ② SEE E2.2 FOR FLOOR BOX INFORMATION.
- ③ NEW DEVICE LOCATION PART OF ALTERNATE A-1.
- ④ NEW LOCATION FOR CARD READER REMOVED DURING DEMOLITION.

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OWEF - SECOND LEVEL
SIGNAL PLAN
SHEET NUMBER

E3.2

OF SHEETS

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LIGHT FIXTURE SCHEDULE												
ELECTRICAL												
Fixture Letter	Fixture Style	Voltage	Mounting	Lamps			Fixture Max VA	Control Media (Lens, Louver, Etc.)	Manufacturer's Series Number	Fixture Description	Notes	
				Type	Color	Ballast/Driver						
A6	2X4 LED VOLUMETRIC TROFFER	120/277	LAY-IN GRID INVERTED TEE	LED 4800 LUM MIN	3500K	DIMMING 0-10V (10%)	44 VA	WHITE ACRYLIC OVERLAY, UPPER REFLECTOR PAINTED WHITE	LITHONIA LIGHTING 2RTL4 48L GZ10 LP850	POST PAINTED STEEL HOUSING		
B1	2X2 LED LENSED TROFFER	120/277	LAY-IN GRID INVERTED TEE	LED 3300 LUM MIN	3500K	DIMMING 0-10V (10%)	32 VA	0.125" MINIMUM ACRYLIC LENS	LITHONIA LIGHTING 2RTL2 33L GZ10 LP850 N100	POST PAINTED STEEL HOUSING		
D6	6" ROUND DOWNLIGHT	120/277	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 1500 LUM MIN	3500K	DIMMING 0-10V (1%)	18 VA	SEMI-SPECULAR CLEAR SELF FLANGED MEDIUM DISTRIBUTION	LITHONIA LDNS 50/15 LOGAR LSS GZ10	PRE-PAINTED WHITE ALUMINUM HOUSING, PRE-WIRED J-BOX, TWO 27" HANGER BARS		
E1	EXIT SIGN, SINGLE FACE, EDGE LIT, AC ONLY	120/277	RECESSED	LED	RED	N/A	4 VA	RED LETTERS	LITHONIA ECRG HO RD M6	BRUSHED ALUMINUM BASE, CLEAR FACE, MIRROR BACK, UNIVERSAL FACEPLATE KIT, MOUNTING PER FLOOR PLAN, AC ONLY UL924		
F4	4" INDUSTRIAL	120/277	SURFACE/CHAIN HUNG	LED 4000 LUM MIN	3500K	DIMMING 0-10V (10%)	40 VA	SEMI FROSTED ACRYLIC LENS	COOPER-METALUX SNLED SERIES COLUMBIA CLX SERIES LITHONIA CLX SERIES ORACLE OEC-LED SERIES	STEEL CHANNEL, WHITE POWDER COAT		

GENERAL ELECTRICAL NOTES:

- A. REFER TO SPECIFICATION SECTIONS 265100 AND 265600 FOR LIGHT FIXTURE REQUIREMENTS.
- B. BRING CONFLICTS BETWEEN THE MANUFACTURER'S CATALOG NUMBER AND DESCRIPTIONS TO THE ATTENTION OF THE ENGINEER.
- C. LIGHT SOURCE SHALL HAVE COLOR TEMPERATURE 3500K WITH MINIMUM CRI OF 80 UNLESS OTHERWISE NOTED.
- D. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS NAMED, THE MANUFACTURER'S NAMED ALTERNATES MUST SUBMIT CATALOG CUT SHEETS AND IES FORMATTED PHOTOMETRIC REPORT TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE. THE ENGINEER MAY REQUEST SAMPLE OF LUMINAIRE TO BE SUPPLIED.
- E. MINIMUM LUMENS LISTED FOR LIGHT FIXTURES ARE DELIVERED LUMENS BASED ON PHOTOMETRIC TESTING COMPLETED IN ACCORDANCE WITH IES LM-79 STANDARDS.
- F. SUBSTITUTE LIGHT FIXTURE IS SUBJECT TO ARCHITECT/ENGINEER APPROVAL.

NOTES:

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LIGHTING CONTROL SEQUENCE SCHEDULE															
(LC #) LIGHTING CONTROL SEQUENCE SYMBOL FOUND ON LIGHTING PLAN(S).															
Lighting Control Sequence	EMS/BAS Capabilities	Network Control System	Time Clock	Vacancy Sensor	Occupancy Sensor	Auto Off Time (Minutes)	Light Reduction % Switching (Min 50%)	Dimming Type	Dimming Level	Sidelight Daylight Harvest (Automatic/Switched)	Toplight Daylight Harvest (Automatic/Switched)	Afterhours Override	Override Duration	Manual On/Off	Notes
LC 1				DUAL TECH.		20	0-10V	0.01				X	2 HOURS	YES	
LC 2	X	X	X				0-10V	0.01							
LC 3				PASSIVE INFRARED		5									YES
LC 4					DUAL TECH.	20									NO
LC 4A					DUAL TECH.	5									
LC 6				DUAL TECH.		20	0-10V	0.01				NOTE 5	2 HOURS		

GENERAL NOTES:

- A. PROVIDE ALL PARTS AND PIECES NECESSARY TO MAKE A FUNCTIONAL LIGHTING CONTROL SYSTEM WITH ALL CONTROLS AS MARKED ABOVE.
- B. SUPPLIER TO PROVIDE COMPLETE WIRING DIAGRAM PRIOR TO INSTALLATION.
- C. IF DIMMING IS CALLED FOR IN SCHEDULE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND PROVIDE ALL NECESSARY PARTS, BALLASTS, DRIVERS, ETC. TO PROVIDE THE DIMMING FUNCTION.
- D. CONTRACTOR SHALL ALLOW ACCESS TO ALL CONTROLS AS INDICATED ON THE DRAWINGS.
- E. CONTRACTOR MUST COMPLY WITH THE CONTROLS INTENT AS INDICATED ON THE DRAWINGS.
- F. AT MINIMUM, CONTRACTOR SHALL HOLD TWO PRE CONSTRUCTION MEETINGS, PRIOR TO BID, WITH THEIR SELECTED LIGHTING CONTROLS VENDOR OR SUPPLIER.
- G. THE INTENT OF (2) PRE CONSTRUCTION MEETINGS IS TO DEVELOP AN UNDERSTANDING OF THE CONTROLS SYSTEM TO ACCURATELY ACCOUNT FOR ALL POWER, CONTROLS, CABLING, EQUIPMENT AND CONNECTION REQUIREMENTS.
- H. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS, ACCESSORIES AND ASSOCIATED LABOR FOR THEIR SELECTED LIGHTING CONTROLS SYSTEM.

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OWEF - ELECTRICAL SCHEDULES
SHEET NUMBER

E4.1

NAME: LVD-5ENCLOSURE: NEMA 1
MOUNTING: SURFACE
INCOMING FEED: TOPSUPPLY FROM: TLVD-9
FEED THRU LUGS: No
FTL SUB PANEL: NoVOLTAGE: 120/208
PHASE: 3
WIRE: 4
CALCULATED AFC: 4.6kMIN. BUS RATING: 200 A
MAIN SIZE: 150
MAIN OPTIONS: MCB

CKT	CIRCUIT DESCRIPTION	NOTE	TRIP	POLE	POLE	TRIP	NOTE	CIRCUIT DESCRIPTION	CKT
1	RECEPTACLES 1015 SPRINKLER ROOM	GFCI	20	1	1	20	GFCI	REC 1015 SOUTH LOCKER ROOM & GENIE...	2
3	RECEPTACLES 1015 SPRINKLER ROOM	GFCI	20	1	1	20	GFCI	YELLOW HANING CORD IN MAINTENANCE SHOP	4
5	RECEPTACLES 1015 SPRINKLER ROOM	GFCI	20	1	1	20	GFCI	RECEPTACLES 1015 SOUTH LOCKER ROOM	6
7	RECEPTACLES 1015 UNIFORM STORAGE	GFCI	20	1	1	20	GFCI	RECEPTACLES 1015 HALLWAY	8
9	REC S 1015 UNIFORM STORAGE AND MECHANIC...	GFCI	20	1	1	20	GFCI	REC 1015 NORTH LOCKER ROOM & GENIE...	10
11	REC S 1015 UNIFORM STORAGE AND MECHANIC...	GFCI	20	1	1	20	GFCI	RECEPTACLES 1015 NORTH LOCKER ROOM	12
13	REC S 1015 PARTS ROOM AND MAINTENANCE...	GFCI	20	1	1	20	GFCI	REC S 1015 LUNCH ROOM AND HALLWAY	14
15	REC S 1015 PARTS ROOM AND MAINTENANCE...	GFCI	20	1	1	20	GFCI	RECEPTACLES 1015 LUNCH ROOM	16
17	REC S 1015 PARTS ROOM AND MAINTENANCE...	GFCI	20	1	1	20	GFCI	REC S 1015 LUNCH ROOM AND HALLWAY	18
19	REC S 1015 PARTS ROOM AND HALLWAY	GFCI	20	1	1	20	GFCI	REC S 1015 LUNCH ROOM AND RECEPTION AREA	20
21	RECEPTACLES 1015 MAINTENANCE SHOP	GFCI	20	1	1	20	GFCI	REC S 1015 LUNCH ROOM AND RECEPTION AREA	22
23	RECEPTACLES 1015 MAINTENANCE SHOP	GFCI	20	1	1	20	GFCI	RECEPTACLES 1015 RECEPTION AREA	24
25	REC S 1015 ELEVATOR LOBBY AND RECEPTION...	GFCI	20	1	1	20	GFCI	SPARE (IN USE)	26
27	REC S 1015 ELEVATOR LOBBY FASTENAL...	GFCI	20	1	1	20	GFCI	CONTROL TRANSFORMER	28
29	SPARE (IN USE)	GFCI	20	1	1	20	GFCI	SPARE (IN USE)	30
31	SPARE (IN USE)	GFCI	20	1	1	20	GFCI	EXHAUST FAN EF-1	32
33	RECEPTACLES		15	1	1	20	GFCI	SPARE (IN USE)	34
35	SPARE (IN USE)		20	1	1	20	GFCI	SPARE (IN USE)	36
37	SPARE (IN USE)		20	1	3	15	GFCI	1015 MECHANICAL ROOM CONDENSATE PUMPS	38
39	JIB CRANE IN MAINTENANCE SHOP	GFCI	20	1			GFCI	SPARE	40
41	SPARE	GFCI	20	1			GFCI	SPARE	42
43	SPARE		20	1			GFCI	SPARE	44
45	SPARE		20	1			GFCI	RM E102 RECEPTS	46
47	RM E101 QUAD RECEPTS		20	1			GFCI	RECEPTACLES - MICROWAVE	48
49	RM E101 DUPLEX RECEPTS		20	1			GFCI	RECEPTACLES - REFRIGERATOR	50
51	RECEPTACLES - LOBBY		20	1			GFCI	SWH 01 - WATER HEATER, DWP 01 CIRC PUMP	52
53	RECEPTACLES - E109		20	1			GFCI	FPVAV 02	54
55	RM W104 RECEPTS		20	1			GFCI	FPVAV 03	56
57	RECEPTACLES - BREAKROOM		20	1			GFCI	FPVAV 01	58
59	RECEPTACLES - MICROWAVE		20	1			GFCI	SPARE	60

GENERAL NOTES:

A.

B.

C.

NOTES:

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GENERAL NOTES:

A.

B.

C.

NOTES:

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NAME: HV6ENCLOSURE: NEMA 1
MOUNTING: SURFACE
INCOMING FEED:SUPPLY FROM: FTL SUB PANEL:
FEED THRU LUGS: No
FTL SUB PANEL: NoVOLTAGE: 277/480
PHASE: 3
WIRE: 4
CALCULATED AFC:MIN. BUS RATING: 225 A
MAIN SIZE: 200
MAIN OPTIONS: MCB**EXISTING**

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NAME: LVD6ENCLOSURE: NEMA 1
MOUNTING: SURFACE
INCOMING FEED:SUPPLY FROM: FTL SUB PANEL:
FEED THRU LUGS: No
FTL SUB PANEL: NoVOLTAGE: 120/208
PHASE: 3
WIRE: 4
CALCULATED AFC:MIN. BUS RATING: 225 A
MAIN SIZE: 200
MAIN OPTIONS: MCB**EXISTING**

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GENERAL NOTES:

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C.

NOTES:

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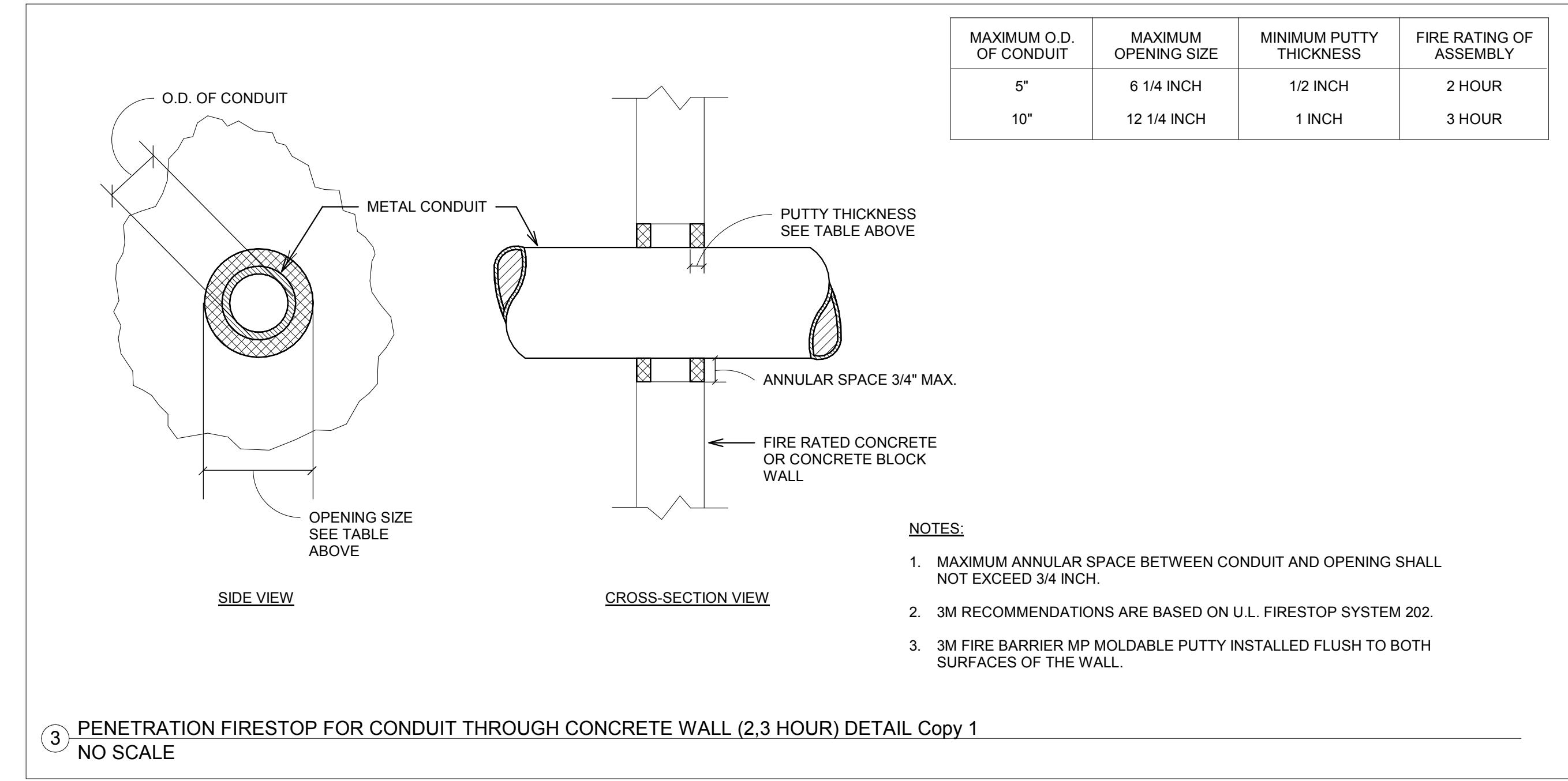
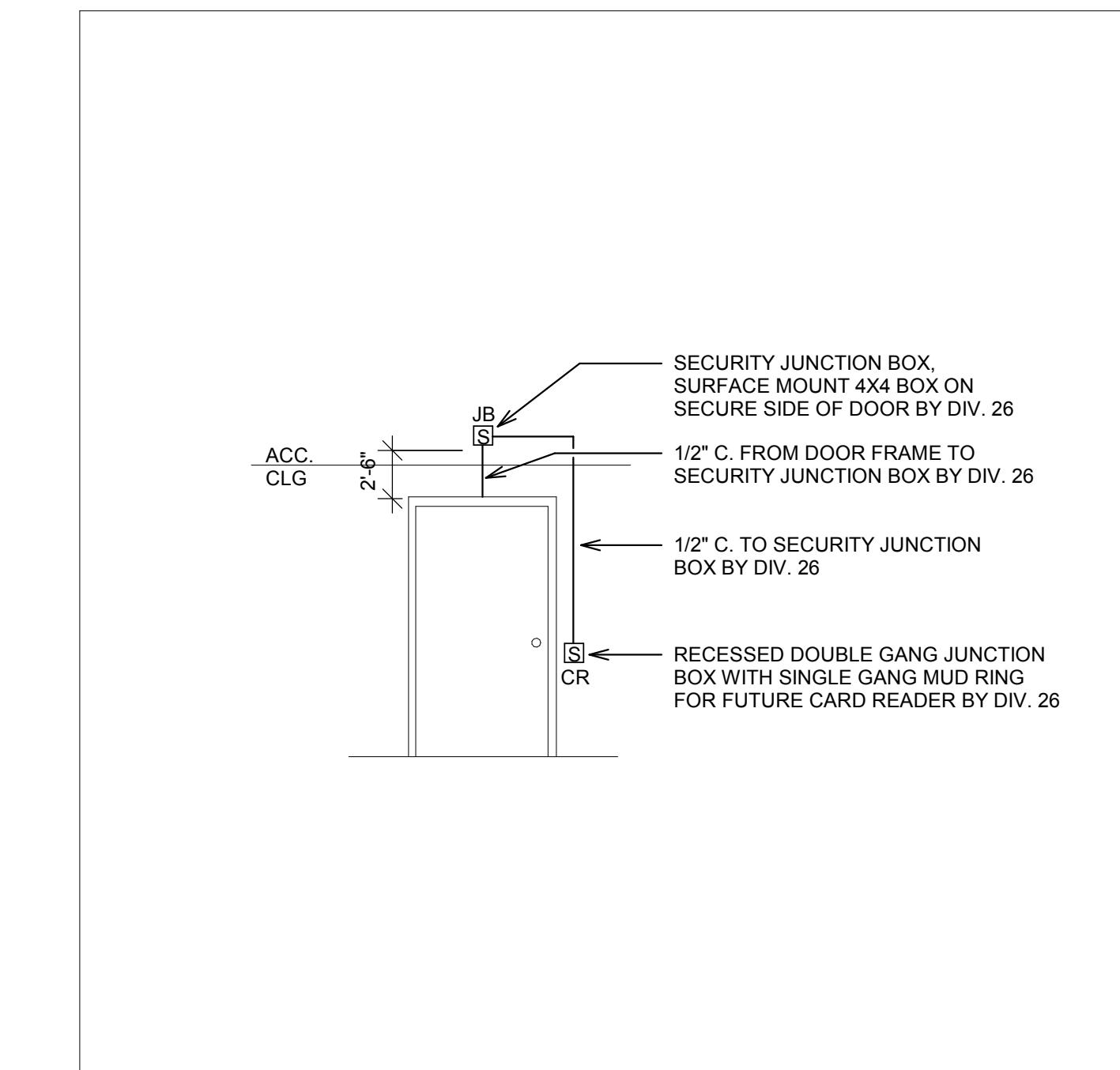
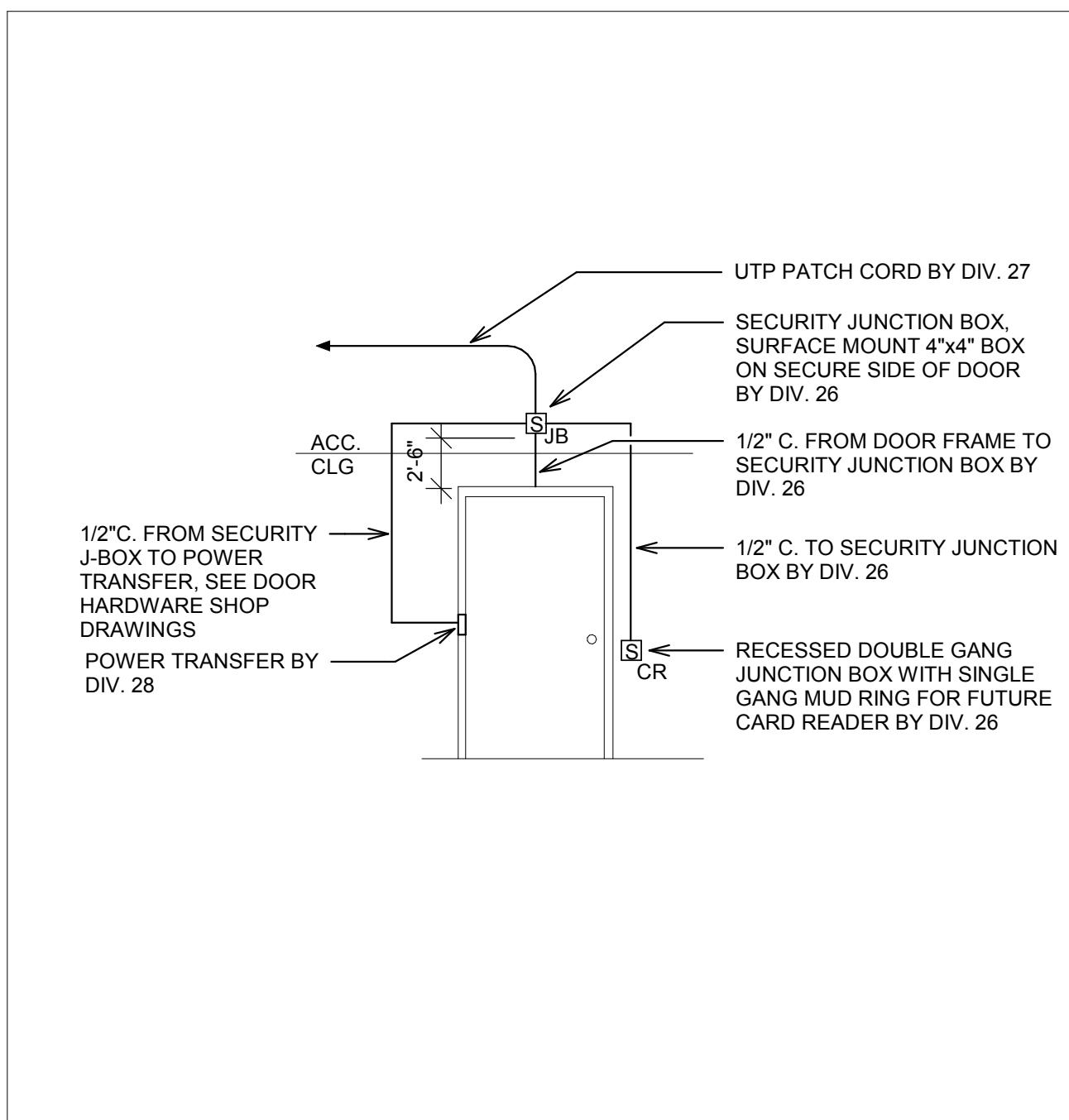
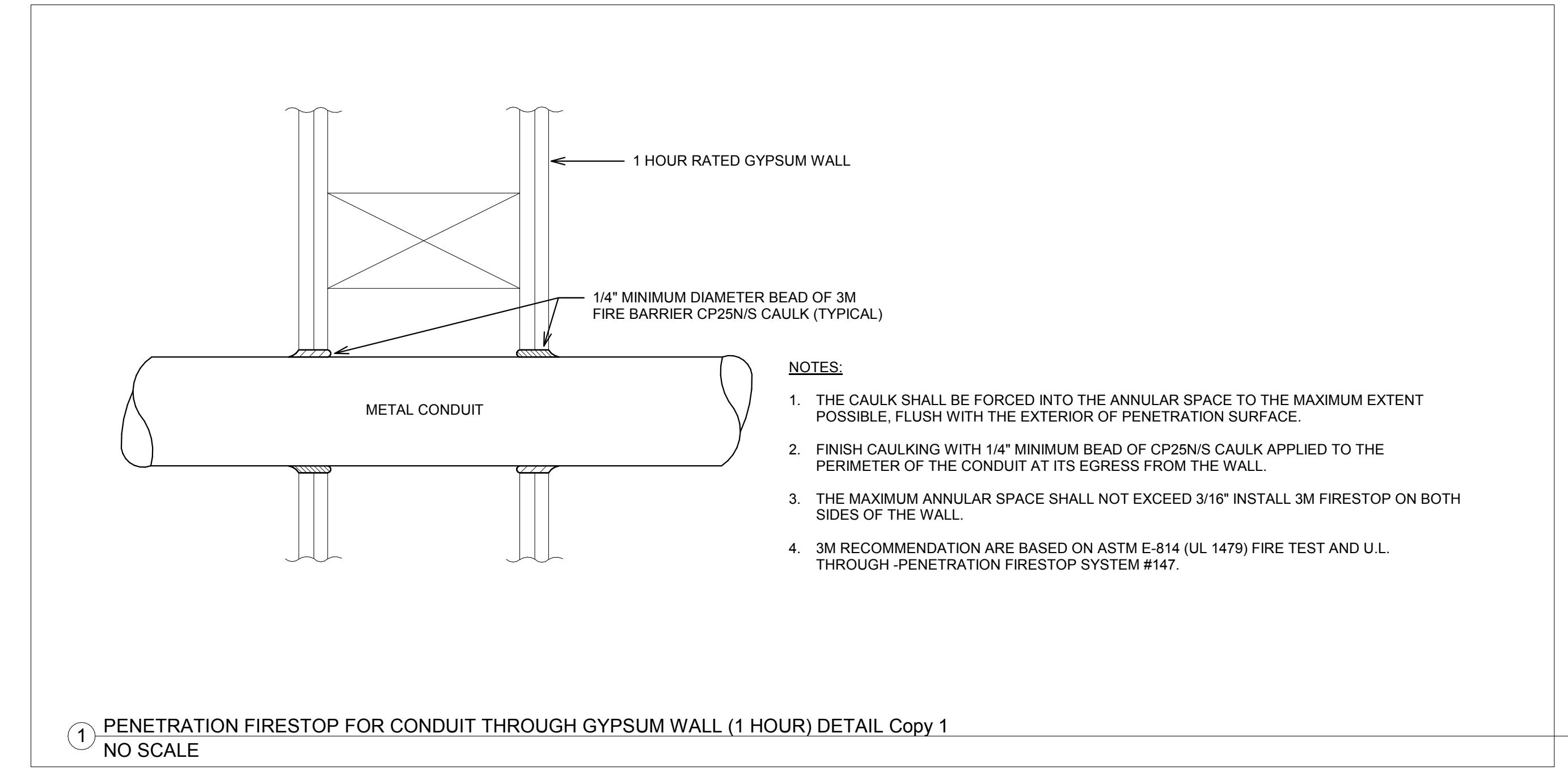
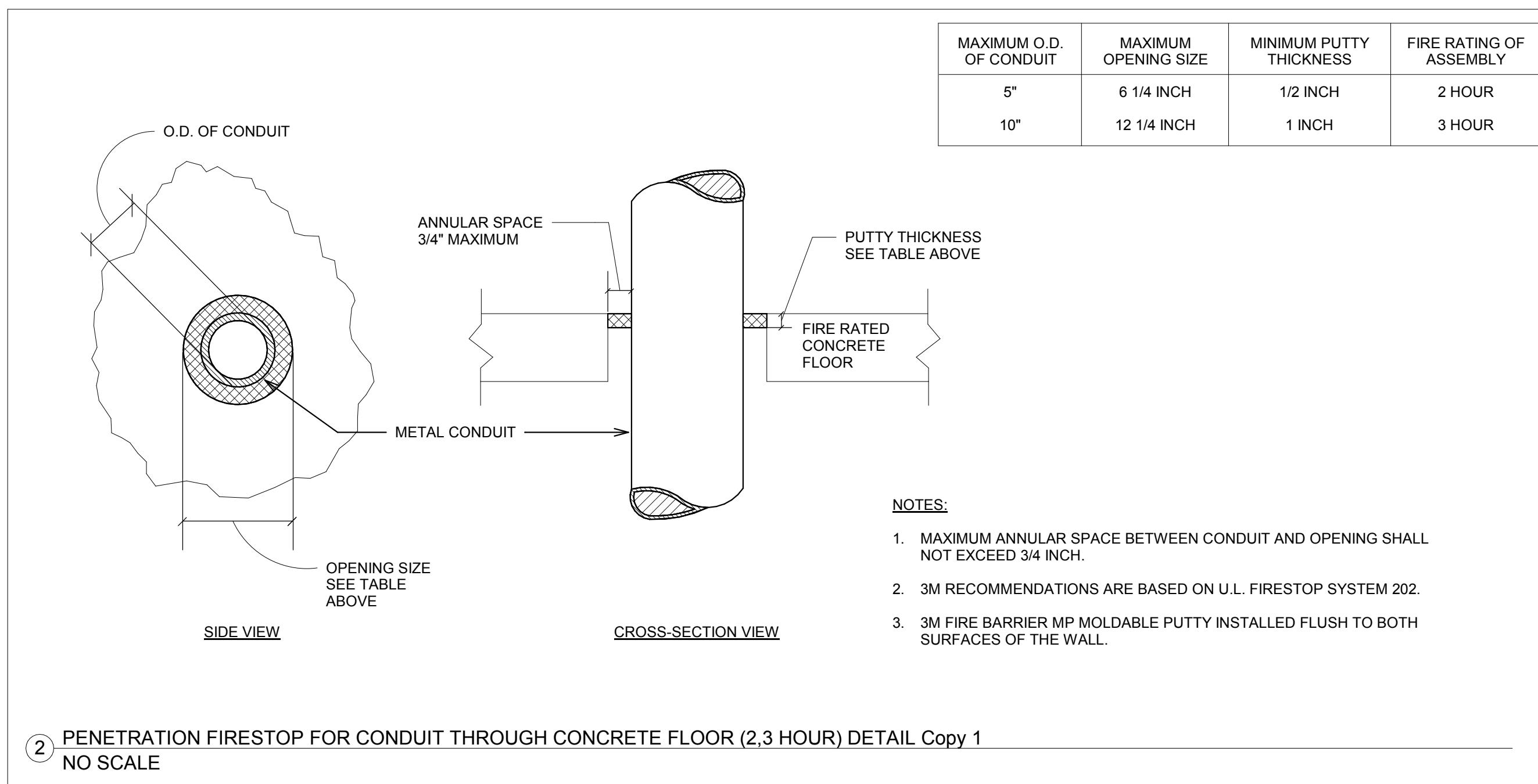
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FEEDER SCHEDULE					
XXXX	FEEDER	FEEDER DESCRIPTION	CONDUIT		
	80-3T	1-1/4" C, 3#4 + #8 G	EMT		
	125-3T	1-1/2" C, 3#4 + #6 G	EMT		
	150-3	2" C, 4#10 + #6 G	EMT		
	150-3S	2" C, 4#10 + #6 G	EMT		
	150-3SE	1-1/2" C, 4#10	EMT		
	225-3	2-1/2" C, 4#40 + #4 G	EMT		
	225-3S	2-1/2" C, 4#40 + #2 G	EMT		
	225-3SE	2-1/2" C, 4#40	EMT		
	400-3	3-1/2" C, 4#500KCMIL + #3 G	EMT		
	1200-3	(4) 3" C, 4#350KCMIL + #30 G	EMT		
	1200-3T	(4) 3" C, 3#350KCMIL + #30 G	EMT		
	4000-3SE	(11) 4" C, 4#500KCMIL	EMT		

-2 SINGLE PHASE
-3 THREE PHASE

SE SERVICE ENTRANCE
S SECONDARY (LV TRANSFORMER)
D SIZE FOR VOLTAGE DROP
P PVC
U UNDERGROUND
L ALUMINUM
NOTES: ADDED NEUTRAL
T THREE WIRE ONLY, NO NEUTRAL

GENERAL NOTES:
A. NOMENCLATURE DEFAULTS WITH A SINGLE NEUTRAL AND A GROUND.

OLMSTED COUNTY WASTE TO ENERGY FACILITY OFFICE REMODEL

ROCHESTER, MINNESOTA

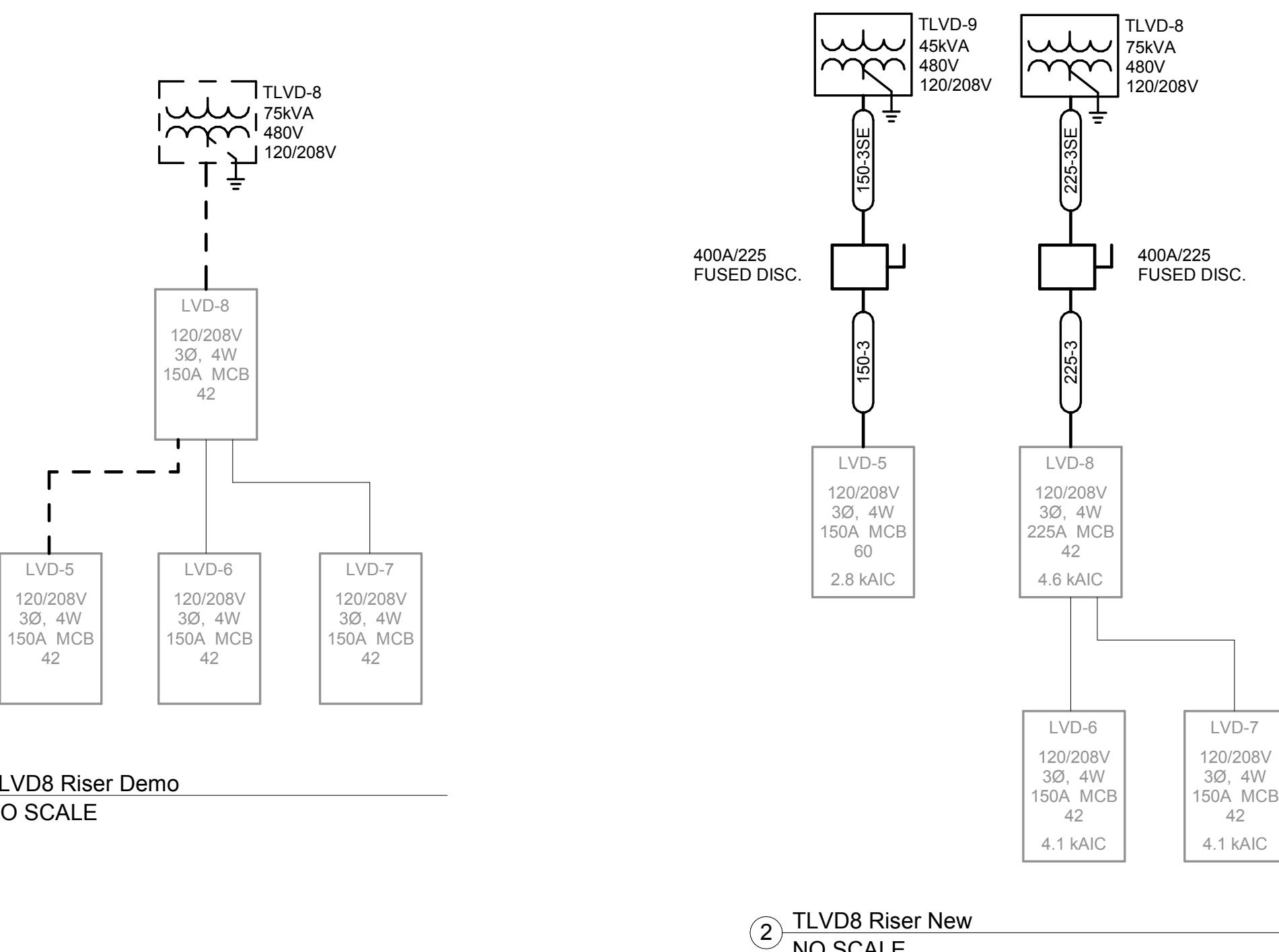
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I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION, OR REPORT WAS
PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM
A DULY LICENSED ENGINEER UNDER
THE LAWS OF THE STATE OF
MINNESOTA.

Dustin Mueller
52622 12/09/25
NUMBER DATE



TRANSFORMER SCHEDULE					
TRANSFORMER NAME	SIZE	VOLTAGE (PRIMARY/SECONDARY)	GROUNDING ELECTRODE CONDUCTOR	MOUNTING	NOTES
TLVD-8	75 KVA	480/120/208Y	#2	FLOOR	
TLVD-9	45 KVA	480/120/208Y	#4	SUSPENDED	
ELECTRICAL NOTES:					

25-041 1226016-000-00
DATE 12/09/25
DRAWN BY DDM
CHECKED BY DF
ISSUE/REVISION HISTORY
01 ISSUE FOR BID 12/09/25

OWEF - ELECTRICAL
RISER
SHEET NUMBER

E6.1