

client / consultant logos

revisions

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issued

- ISSUED FOR 99% REVIEW 11/23/2018
- ISSUED FOR TENDER 12/11/2018
- ISSUED FOR TENDER UPDATE 01/15/2019
- RE-ISSUED FOR TENDER 03/15/2019

stamp / permit

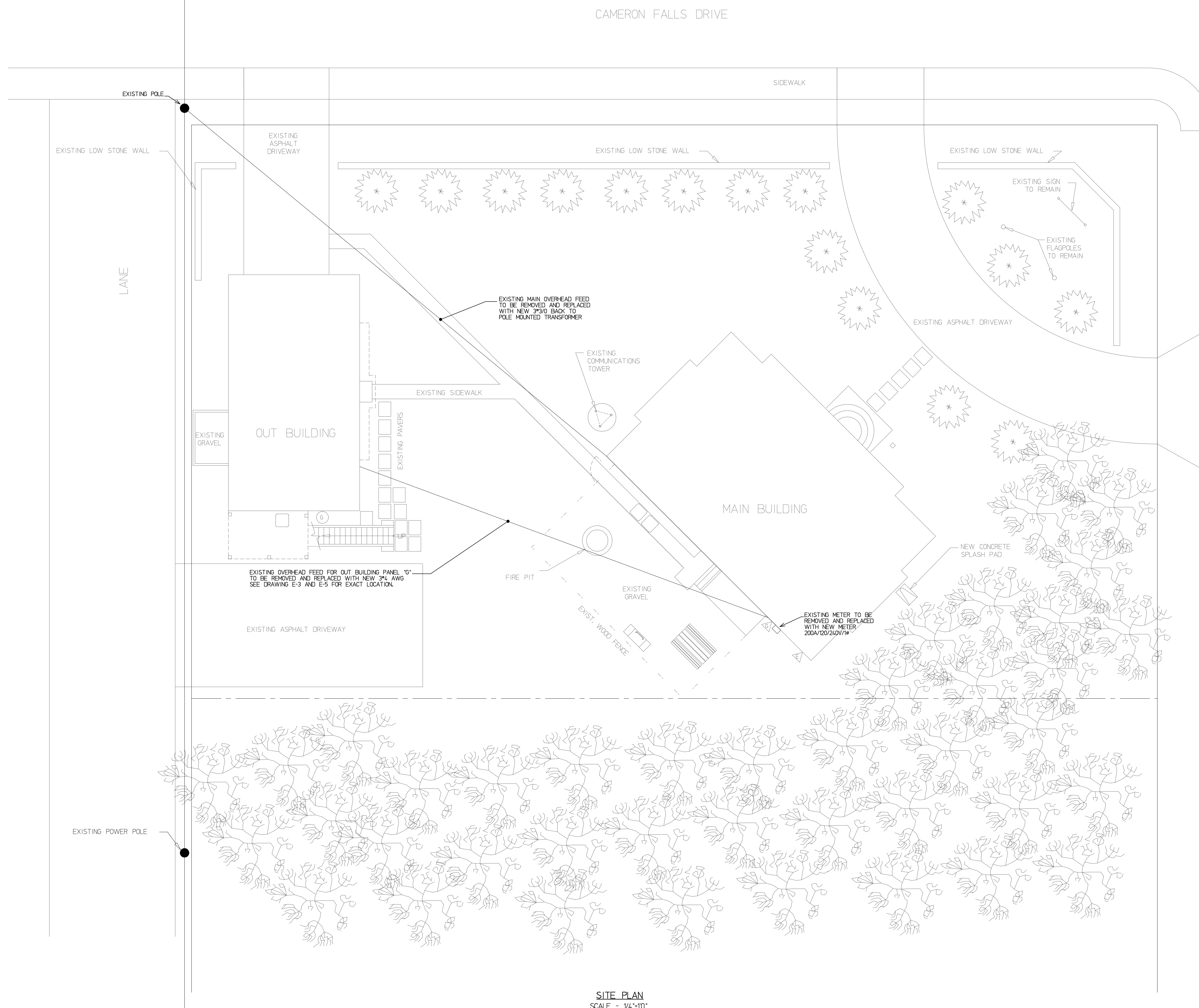
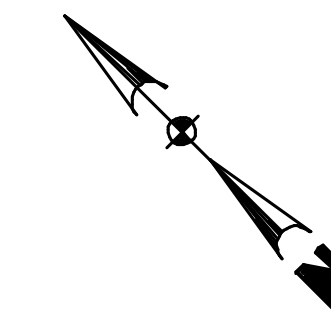
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project title
**REHABILITATION OF HISTORIC
GOVERNMENT OF CANADA
BUILDINGS IN WATERTON**

drawing title
**SITE PLAN
ELECTRICAL**

drawing info
drawn D.B. D.L.
date JULY 2018
scale NOTED
checked S.E.M.

drawing number
E-1



SITE PLAN
SCALE - 1/4"=10'

client / consultant logos

revisions

no.	description	date
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project title
REHABILITATION OF HISTORIC GOVERNMENT OF CANADA BUILDINGS IN WATERTON

drawing title

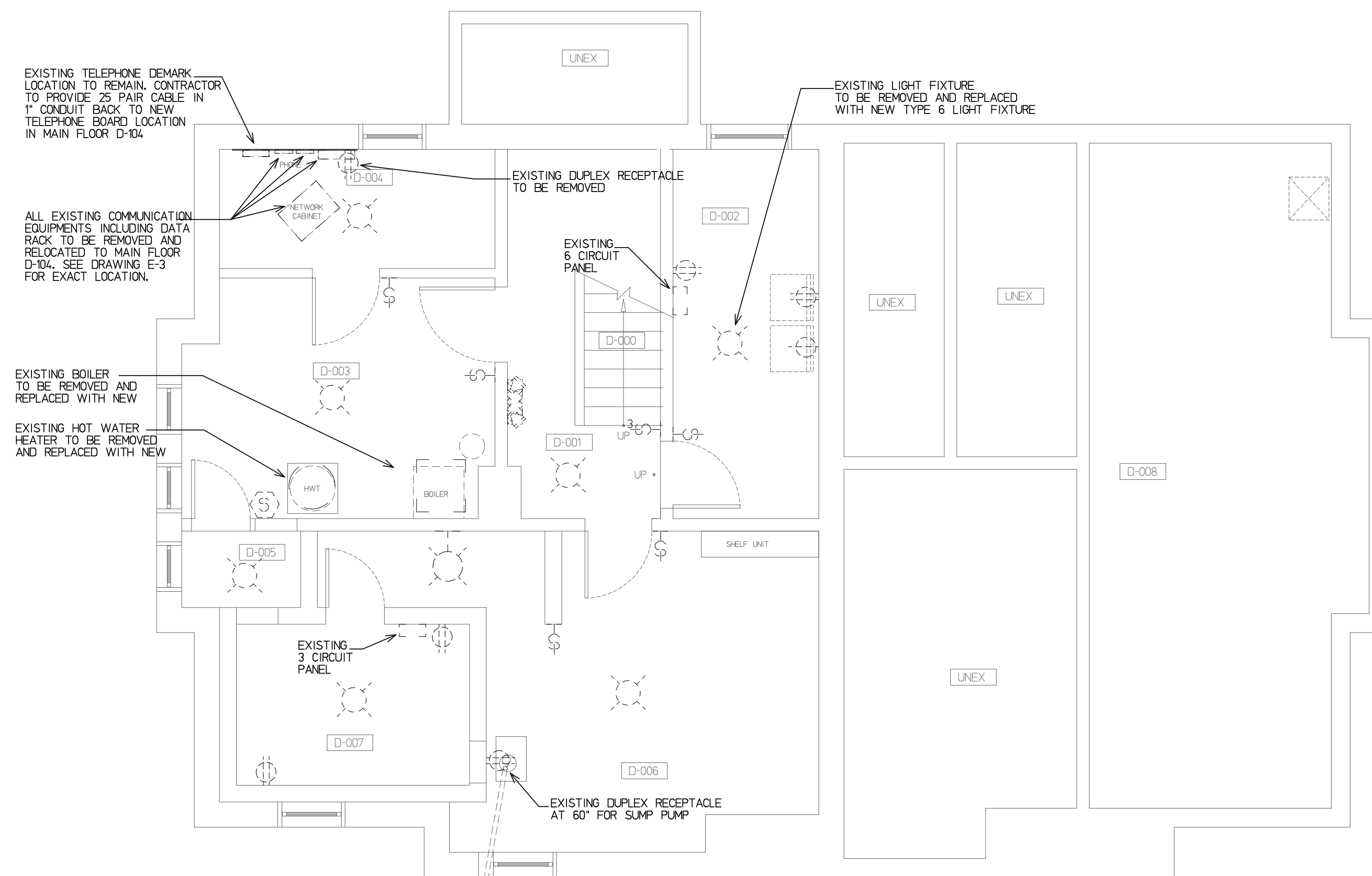
MAIN BUILDING BASEMENT FLOOR PLAN ELECTRICAL

drawing info

drawn D.B. D.L.
 date JULY 2018
 scale NOTED
 checked S.E.M.

drawing number

E-2



BASEMENT FLOOR PLAN DEMOLITION - ELECTRICAL

SCALE - 1/4"=1'-0"

POWER LEGEND:

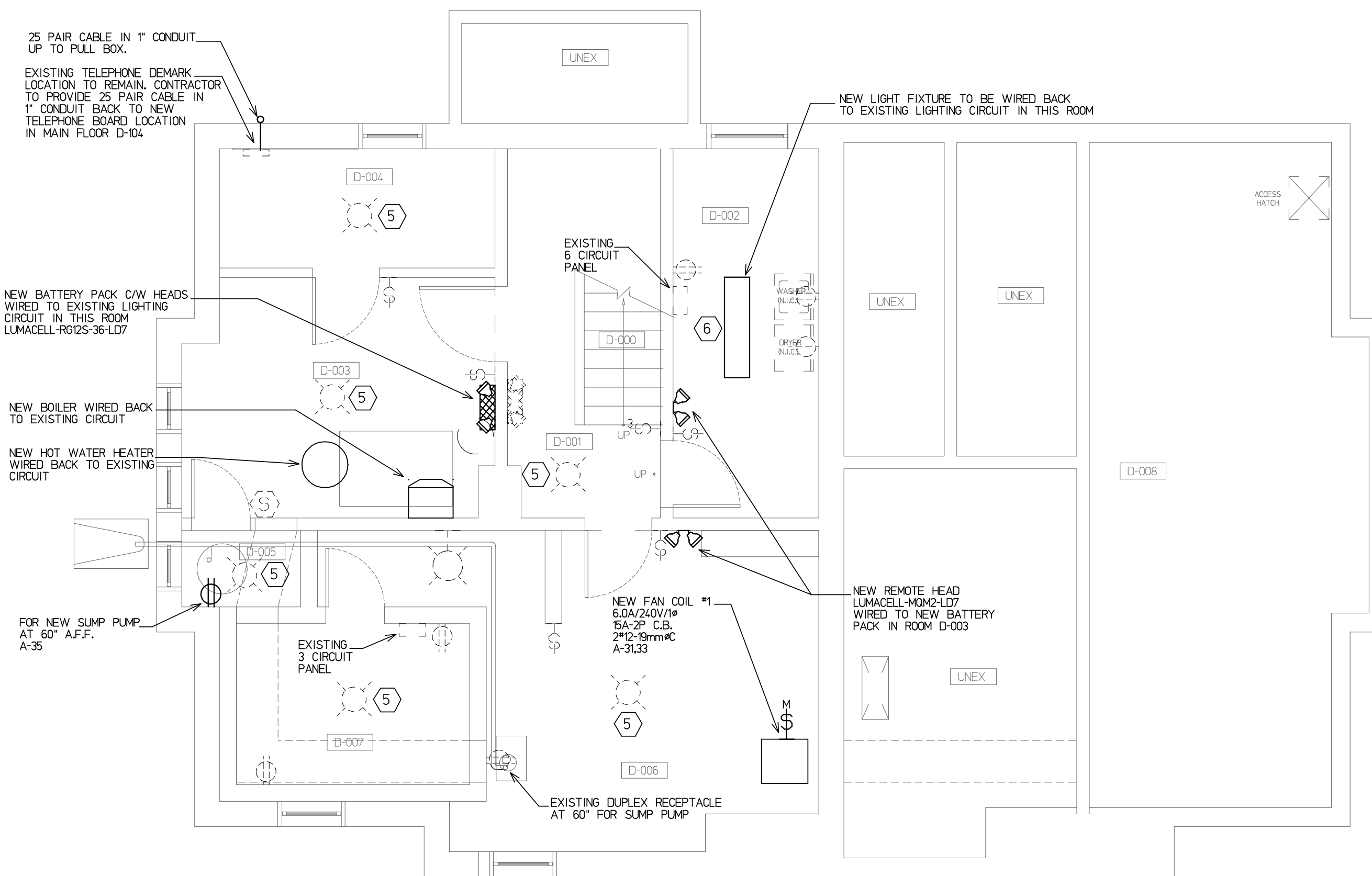
- (Symbol) Existing duplex receptacle
- (Symbol) Existing voice outlet
- (Symbol) Existing combination voice/data outlet
- (Symbol) Existing specialty outlet
- (Symbol) Existing floor mounted duplex receptacle
- (Symbol) Existing smoke alarm
- (Symbol) Existing junction box
- (Symbol) Existing panel
- (Symbol) Existing wall clock
- (Symbol) Denotes existing to be removed
- (Symbol) Denotes existing to be removed and re-installed back
- (Symbol) New duplex receptacle
- (Symbol) New specialty outlet
- (Symbol) New l.v. outlet
- (Symbol) New AI Phone (Cat 6)
- (Symbol) New voice outlet
- (Symbol) New combination 1 Voice/1 Data outlet
- (Symbol) New floor mounted combination voice/data outlet
- (Symbol) New panel
- (Symbol) New manual single phase starter
- (Symbol) New thermostat (supplied by mechanical, installed by electrical)
- (Symbol) New unfused disconnect switch
- (Symbol) Denotes weatherproof

NOTES:

- Before submitting his tender the electrical contractor shall examine the site and all existing conditions affecting the work under this contract. The contractor shall investigate and allow for cost of services to be provided under this contract and satisfy himself that he can supply and install all the services without any additional charges after award of contract.
- All materials and installations to meet the latest requirements of the C.E.C., N.B.C. and to the satisfaction of the local authority having jurisdiction.
- Contractor to give all necessary notices, obtain all permits and all fees in order that the work may be carried out.
- All equipment and systems shall be tested for proper, suitable operation and to the satisfaction of the Engineers, owner and all authorities having jurisdiction. Any corrections, retesting, etc. as required to complete systems shall be done at no expense to the owner.
- At completion of work, provide a final certificate of inspection as evidence that all work installed conforms with the laws and regulations of all authorities having jurisdiction.
- As-built drawings to be provided to building owner upon completion of project.
- Remove all existing redundant conduit and wiring as required.
- Exact placement of all devices to be coordinated with tenant.
- All outlets to be mounted 12" above floor unless noted otherwise.
- Contractor to notify Engineer 48 hours prior to rough-in and final completion.
- Circuit numbers indicated are actual circuits to be used. Circuits shown may not be connected to any other device other than shown. Integrity of the circuit design shall be maintained.
- Provide new circuit breakers in existing panel board to circuit receptacles as required.
- Contractor to provide typed, updated panel schedules.
- All power feed wiring to be installed in conduit. Minimum #12 R90 copper conductors may be used. #12 AC90 conductors may be used for final drop to devices. AC90 is not allowed to be installed from device to device. No horizontal runs in walls will be permitted.
- Provide 3/4" conduit from each new telephone/data outlet and stub into ceiling space. Cabling to be Cat6 back to data rack and telephone board located in room D-104.
- All devices to be of standard specification grade.

LIGHTING LEGEND:

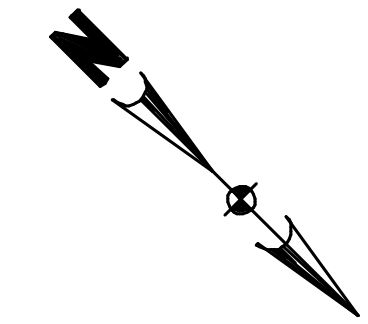
- (Symbol) Existing 2x4' surfaced mounted fluorescent light fixture
- (Symbol) Existing 1x4' surfaced mounted fluorescent light fixture
- (Symbol) Existing security wall mounted light
- (Symbol) Existing surfaced mounted light
- (Symbol) Existing wall mounted light fixture
- (Symbol) Existing battery pack c/w heads
- (Symbol) Existing wall mounted exit light
- (Symbol) Existing light switch
- (Symbol) Existing dimmer switch
- (Symbol) Existing three-way light switch
- (Symbol) Existing ceiling mounted junction box
- (Symbol) Denotes existing fixture to be removed
- (Symbol) Denotes existing fixture to be removed and relocated, reused as new
- (Symbol) New 1x4' surfaced mounted light fixture
- (Symbol) New undercabinet light fixture
- (Symbol) New 8" semi-flush mounted light fixture
- (Symbol) Relocated existing battery pack c/w heads
- (Symbol) New wall mounted running man LED exit light LUMACELL - LA SERIES (120V)
- (Symbol) Light fixture type



BASEMENT FLOOR PLAN - NEW ELECTRICAL

SCALE - 1/4"=1'-0"

LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LAMP TYPE	VOLTAGE	MOUNTING TYPE
①	EXISTING HISTORIC LIGHT FIXTURE				
②	EXISTING HISTORIC LIGHT FIXTURE				
③	NEW SEMI-FLUSH MOUNT SCHOOL HOUSE LIGHT	SEA GULL LIGHTING-ACADEMY 77438N3-782 C/W LED MEDIUM A19 BASE 9.5W LAMP (3500K)	9.5W LED	120V	SURFACE
④	EXISTING CONTEMPORARY LIGHT FIXTURE				
⑤	EXISTING BASE AND BULB				
⑥	NEW 1X4' CLOUD TYPE FIXTURE	PACO LIGHTING-PLCL-2-48-W-32T8-120V	2-T8-32W	120V	SURFACE
⑦	EXTERIOR WALL PACK	RAYON LIGHTING-T65LED-30-UN12-40-T3-B2-PC1	30W LED	120V	SURFACE
⑧	EXTERIOR WALL PACK	RAYON LIGHTING-T65LED-10-UN12-40-T3-B2-PC1	10W LED	120V	SURFACE
⑨	NEW 11X11" CLOUD TYPE FIXTURE	SPECTRUM LIGHTING-SX003SQLEDGV-15-36K-EX-SM-OP-MW	9W LED	120V	SURFACE
⑩	NEW UNDERCABINET LIGHT	RAYON LIGHTING-RULA-36-30-VH	16W LED	120V	SURFACE
⑪	NEW UNDERCABINET LIGHT	RAYON LIGHTING-RULA-22-30-VH	11W LED	120V	SURFACE



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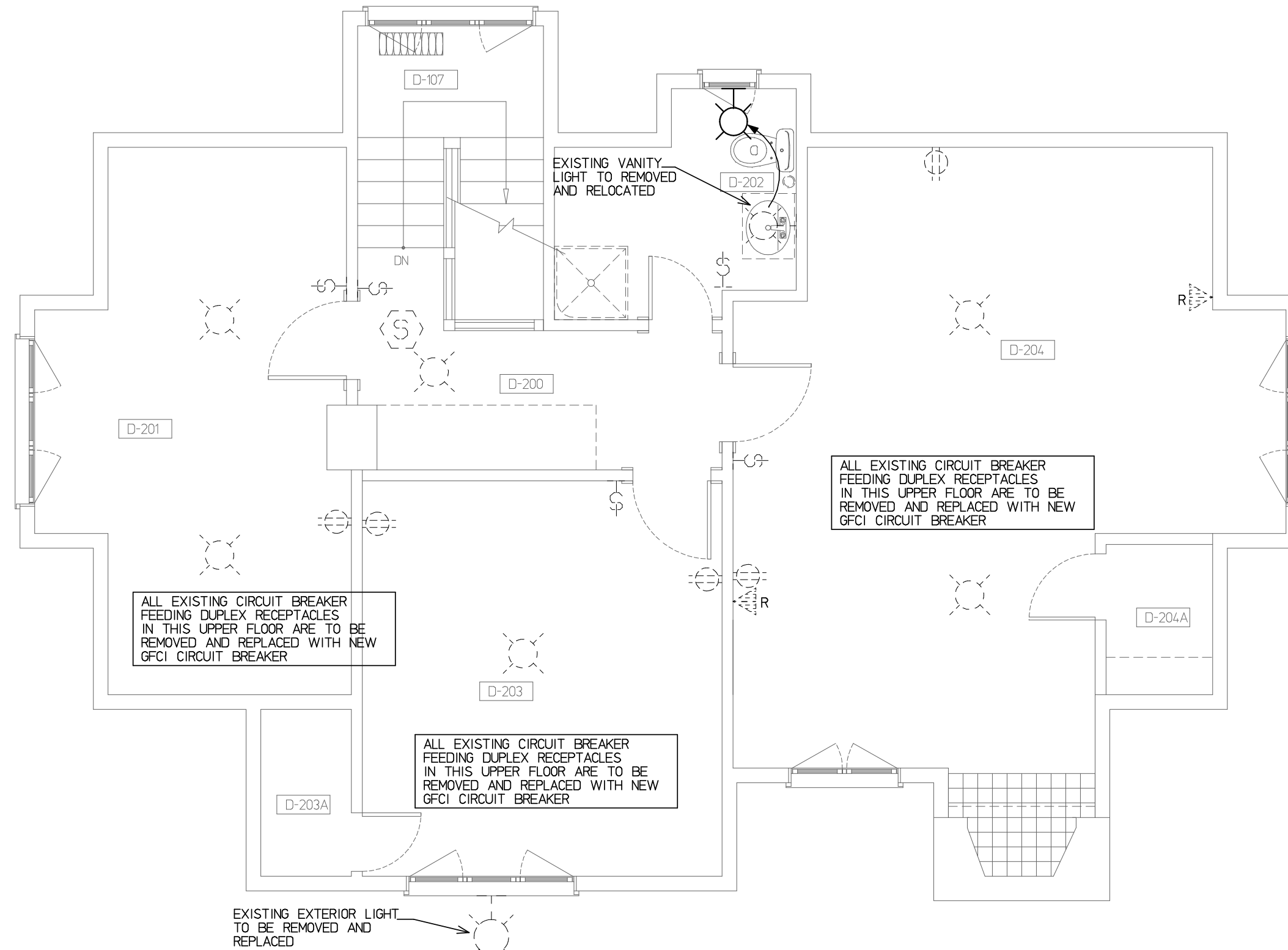
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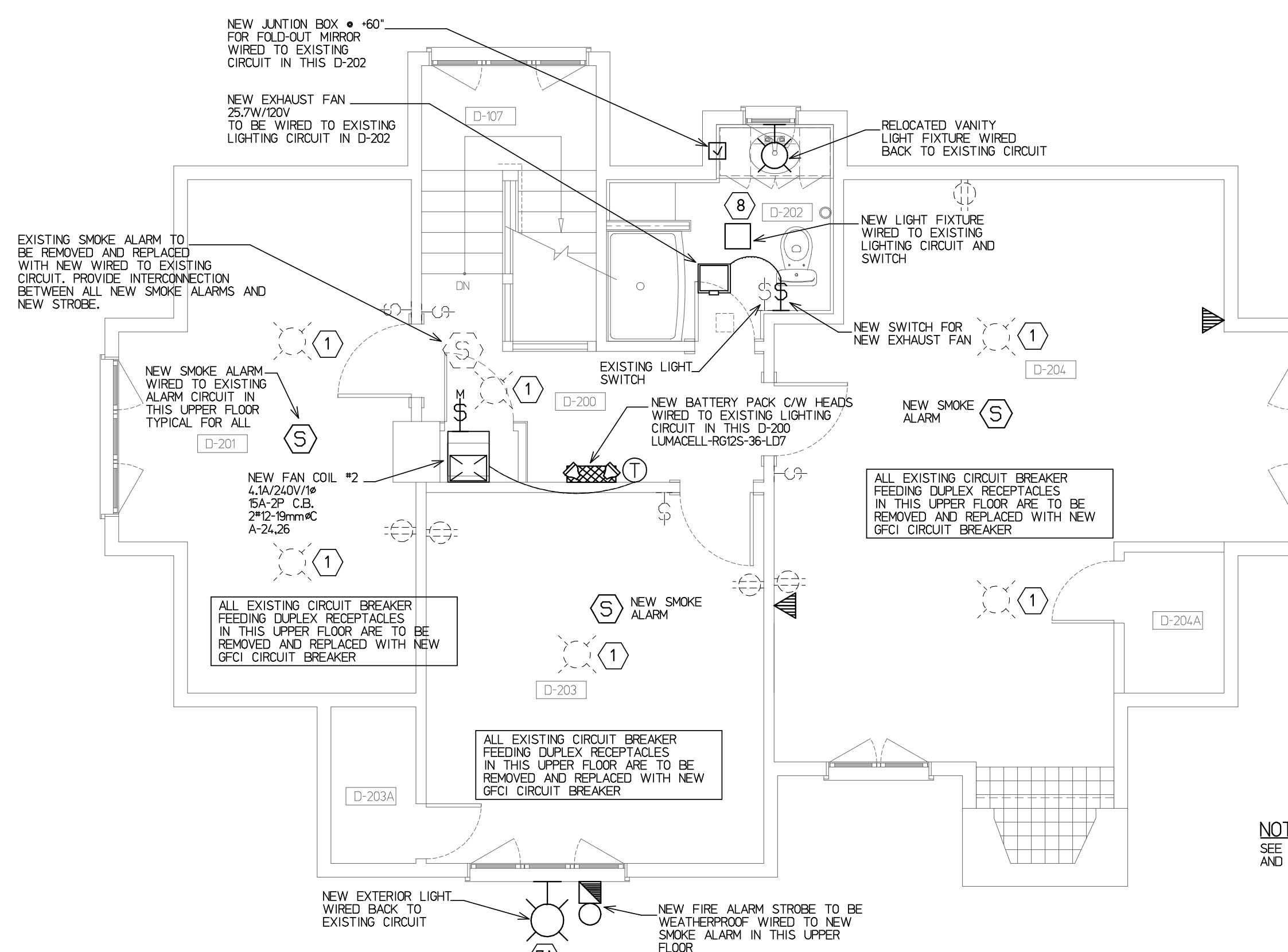
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UPPER FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE - 1/4"=1'-0"



NOTE:
SEE DRAWING E-2 FOR LEGEND
AND LUMINAIRE SCHEDULE

UPPER FLOOR PLAN - NEW ELECTRICAL
SCALE - 1/4"=1'-0"

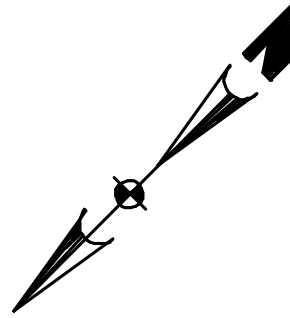
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project title
**REHABILITATION OF HISTORIC
GOVERNMENT OF CANADA
BUILDINGS IN WATERTON**

drawing title
**MAIN BUILDING
UPPER FLOOR PLAN
ELECTRICAL**

drawing info
drawn D.B. D.L.
date JULY 2018
scale NOTED
checked S.E.M.

drawing number
E-4



client / consultant logos

revisions

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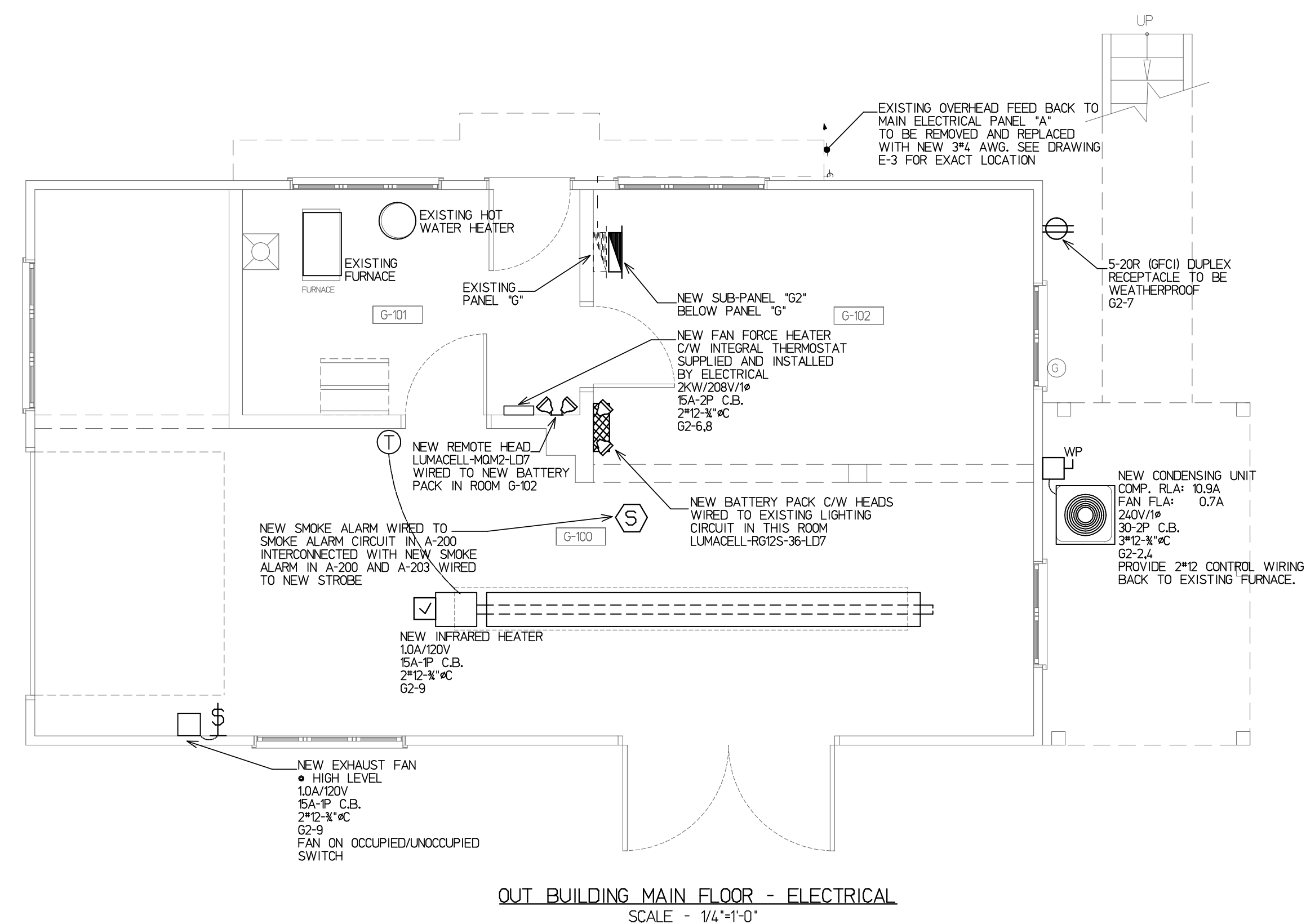
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project title
REHABILITATION OF HISTORIC GOVERNMENT OF CANADA BUILDINGS IN WATERTON

drawing title
OUT BUILDING MAIN FLOOR ELECTRICAL

drawing info
drawn D.B. D.L.
date JULY 2018
scale NOTED
checked S.E.M.

drawing number
E-5



OUT BUILDING MAIN FLOOR - ELECTRICAL
SCALE - 1/4"=1'-0"

120/240 VOLTS		PANEL NEW SUB PANEL 'G2'				100A		A. BUSSING	
1 PHASE		LOCATION OUT BUILDING				SURFACE		MTG.	
3 WIRE		FEEDER 3Ø 1Ø/1Ø							
CIR.	BKR.	WATTAGE		REMARKS	REMARKS	WATTAGE		BKR.	CIR.
		#A	#B			#A	#B		
1	15A			NEW DISHWASHER	NEW CONDENSING UNIT			30A	2
3	15A			NEW RANGE HOOD	FAN FORCE HEATER			2P	4
5	15A			KITCHEN COUNTER				15A	6
7	20A			EXTERIOR PLUG (GFCI)				2P	8
9	15A			INFRARED HEATER/EXH. FAN	SPARE			15A	10
11	15A			SPARE	SPARE			15A	12
TOTALS								TOTALS	
∅ A TOTAL -									
∅ B TOTAL -									
∅ C TOTAL -									
PANEL TOTAL -									
REMARKS									

120/240 VOLTS		PANEL NEW PANEL 'A'				225A		A. BUSSING	
1 PHASE		LOCATION MAIN BLDG.				SURFACE		MTG.	
3 WIRE		FEEDER 3Ø/0							
CIR.	BKR.	WATTAGE		REMARKS	REMARKS	WATTAGE		BKR.	CIR.
		#A	#B			#A	#B		
1	40A			RELOCATED CIRCUIT FROM EXISTING PANEL				15A	2
3	2P							15A	4
5	40A							15A	6
7	2P							15A	8
9	20A						15A	10	
11	15A						15A	12	
13	15A						15A	14	
15	15A						15A	16	
17	15A						15A	18	
19	15A			NEW DISHWASHER				30A	20
21	15A			NEW MICROWAVE	NEW CONDENSING UNIT #2			2P	22
23	15A			COMM. BOARD RECEPT.	NEW FAN COIL #2			15A	24
25	15A			COMM. BOARD RECEPT.				2P	26
27	40A			NEW CONDENSING UNIT #1	SPARE			15A	28
29	2P				SPARE			15A	30
31	15A			NEW FAN COIL #1	SPARE			15A	32
33	2P				SPARE			15A	34
35	15A			NEW SUMP PUMP					36
37									38
39								70A	40
41								2P	42
TOTALS								TOTALS	
∅ A TOTAL -									
∅ B TOTAL -									
∅ C TOTAL -									
PANEL TOTAL -									
REMARKS									

120/240 VOLTS		PANEL EXIST. PANEL 'G'				125A		A. BUSSING	
1 PHASE		LOCATION OUT BUILDING				SURFACE		MTG.	
3 WIRE		FEEDER NEW 3Ø							
CIR.	BKR.	WATTAGE		REMARKS	REMARKS	WATTAGE		BKR.	CIR.
		#A	#B			#A	#B		
1	15A			EXIST. PLUG UP	EXIST. FURNACE			15A	2
3	15A			EXIST. BASEBOARD HEATER	EXIST. BEDROOM PLUGS			15A	4
5	2P				EXIST. FRIDGE			15A	6
7	15A			EXIST. BASEBOARD HEATER	NEW SUB PANEL 'G2'			40A	8
9	2P							2P	10
11	40A			NEW STOVE	EXIST. MICROWAVE			15A	12
13	2P				EXIST. BATHROOM FAN/PLUGS			15A	14
15	15A			EXIST. GARAGE DR/PLUGS/LIGHTS	EXIST. WATER HEATER			15A	16
TOTALS								TOTALS	
∅ A TOTAL -									
∅ B TOTAL -									
∅ C TOTAL -									
PANEL TOTAL -									
REMARKS									

* - EXISTING 2 POLE BREAKER TO BE REMOVED AND REPLACED WITH NEW BREAKER AS SHOWN.

