

Renovations to
Jonesboro Recreational Center
Jonesboro Arkansas
Phase II



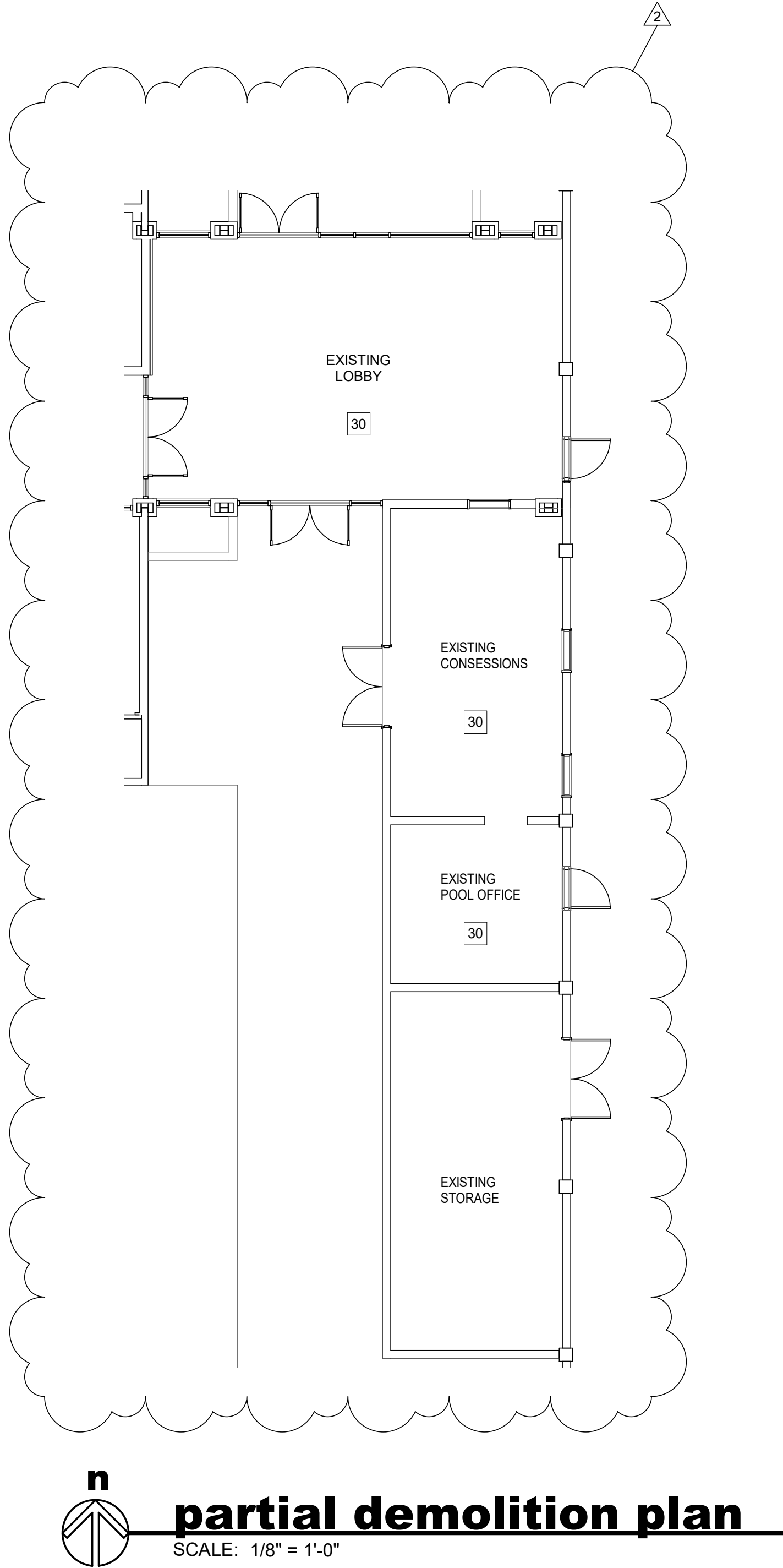
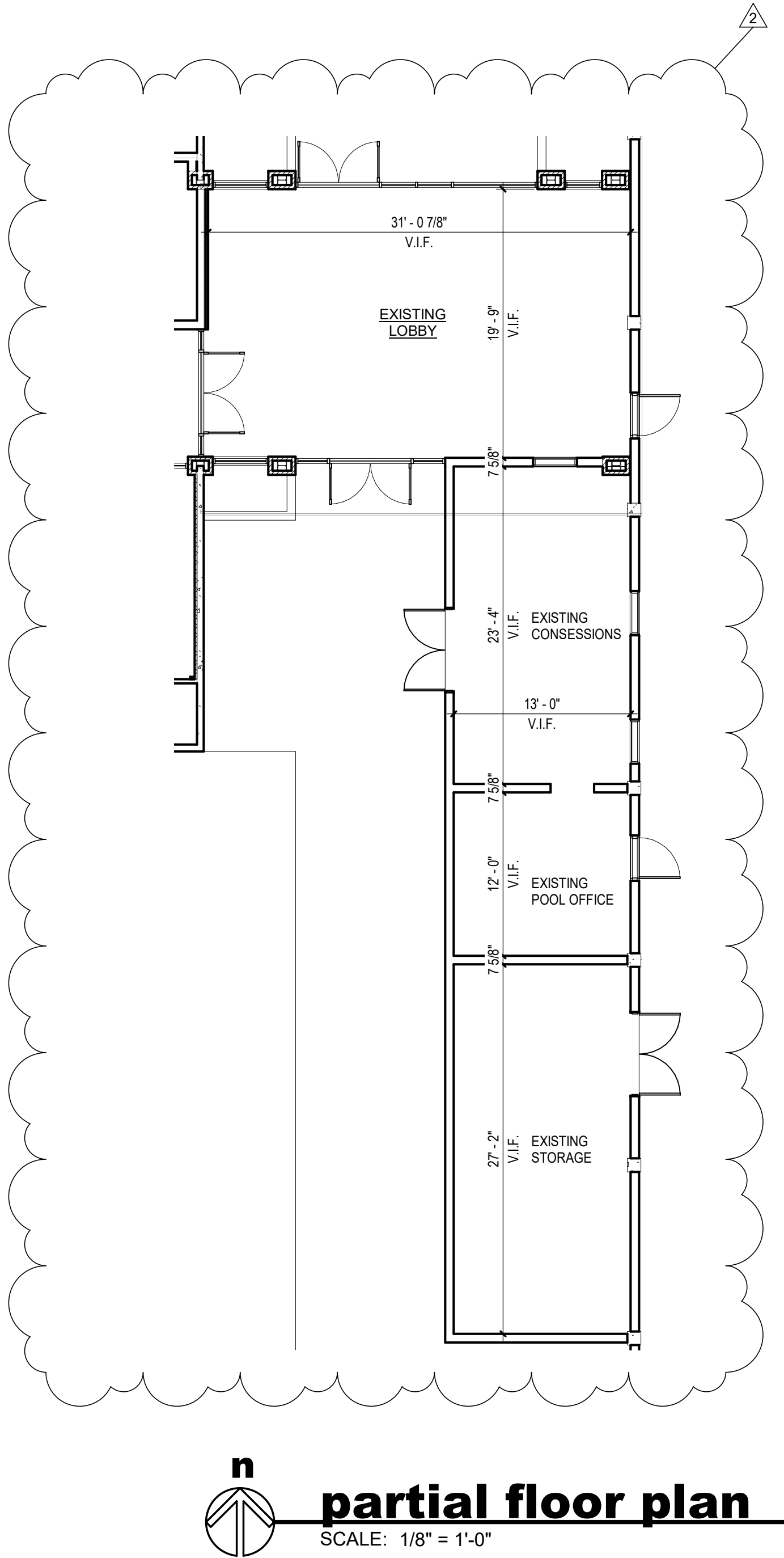
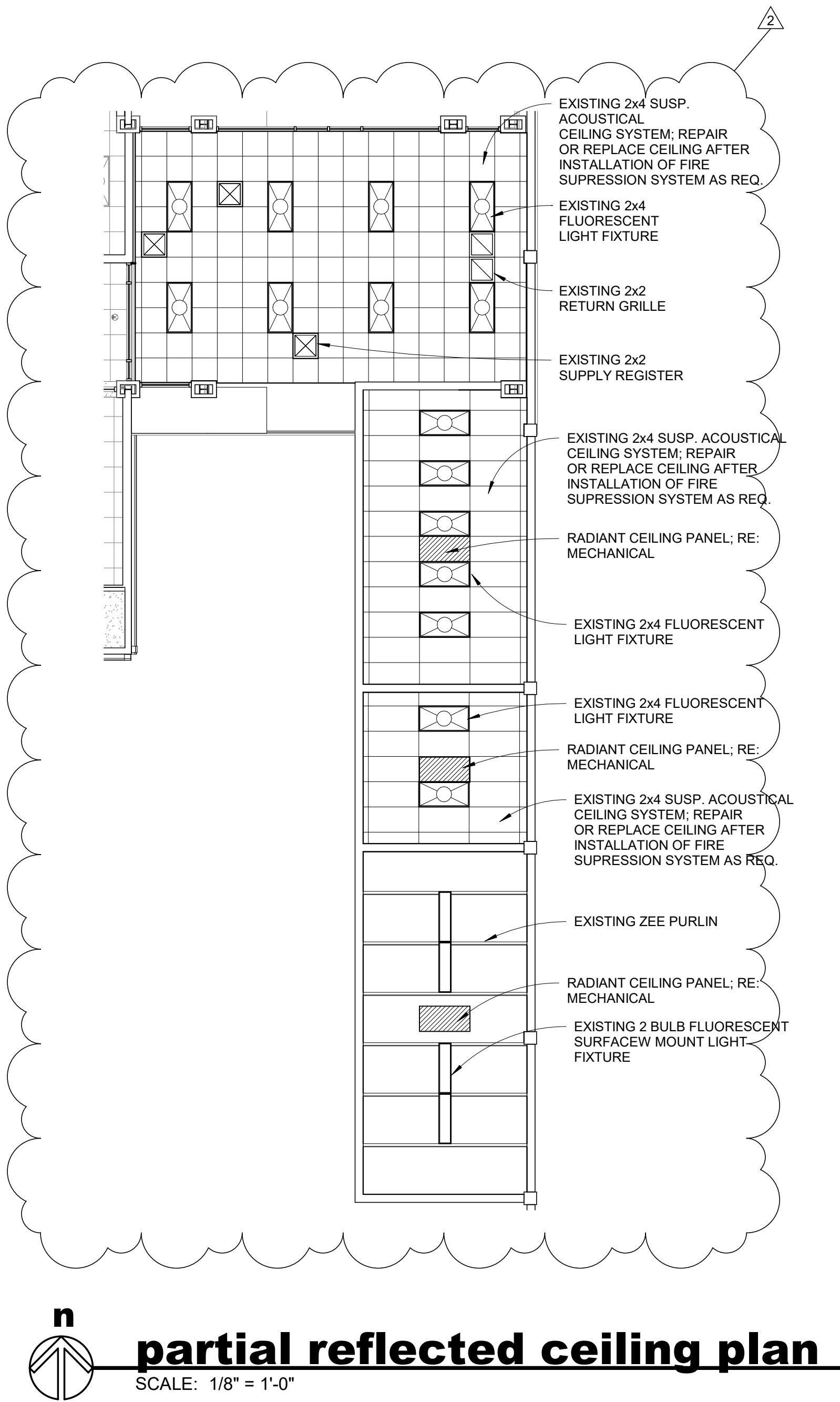
www.brackettks.com

Fax 870-932-0975

870-932-0571

100 East Huntington Ave. Suite D P.O. Box 1655

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Revision Schedule		Issued by
Tail	Rev. Description	Rev. Date
2	Addendum #2	03.16.22 RDA



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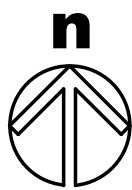
Date: February 20 2022

RADIANT CEILING PANEL HEATERS

DESIGNATION	REFERENCE PRODUCT	PANEL SIZE (L"xW")	HEATING CAPACITY (WATTS)	VOLTAGE/PHASE	AMPS	REMARKS
RHP-1	MARLEY CP751F	48"x24"	750	120/1	6.3	FURNISH WITH FACTORY SILICONE-SEALED PANELS AND 120V CONTROL POWER RELAY.
RHP-2	MARLEY CP751F	48"x24"	750	120/1	6.3	FURNISH WITH FACTORY SILICONE-SEALED PANELS AND 120V CONTROL POWER RELAY.
RHP-3	MARLEY CP751F	48"x24"	750	120/1	6.3	FURNISH WITH FACTORY SILICONE-SEALED PANELS AND 120V CONTROL POWER RELAY.

KEYED NOTES:

- 1
- INSTALL RADIANT CEILING PANEL HEATER IN PLACE OF EXISTING CEILING TILE. SUPPORT UNIT WITH EXISTING T-BAR CEILING GRID SYSTEM. UNIT SHALL BE THERMOSTATICALLY CONTROLLED TO MAINTAIN ROOM TEMPERATURE AT SETPOINT OF 40 DEGREES F.
- 2
- INSTALL RADIANT CEILING PANEL HEATER, SUPPORTED FROM EXISTING ROOF STRUCTURE ABOVE. UNIT SHALL BE THERMOSTATICALLY CONTROLLED TO MAINTAIN ROOM TEMPERATURE AT SETPOINT OF 40 DEGREES F.



FIRST FLOOR HVAC LOBBY PLAN - NEW

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



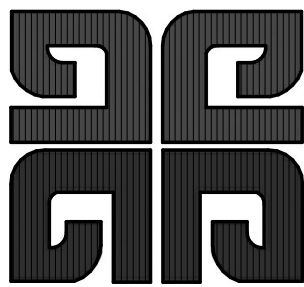
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Jonesboro Arkansas
Phase II

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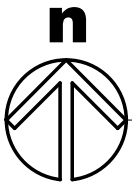
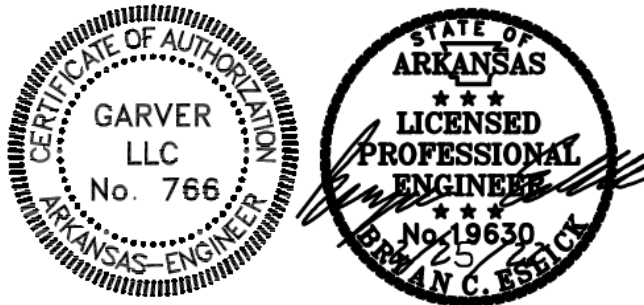


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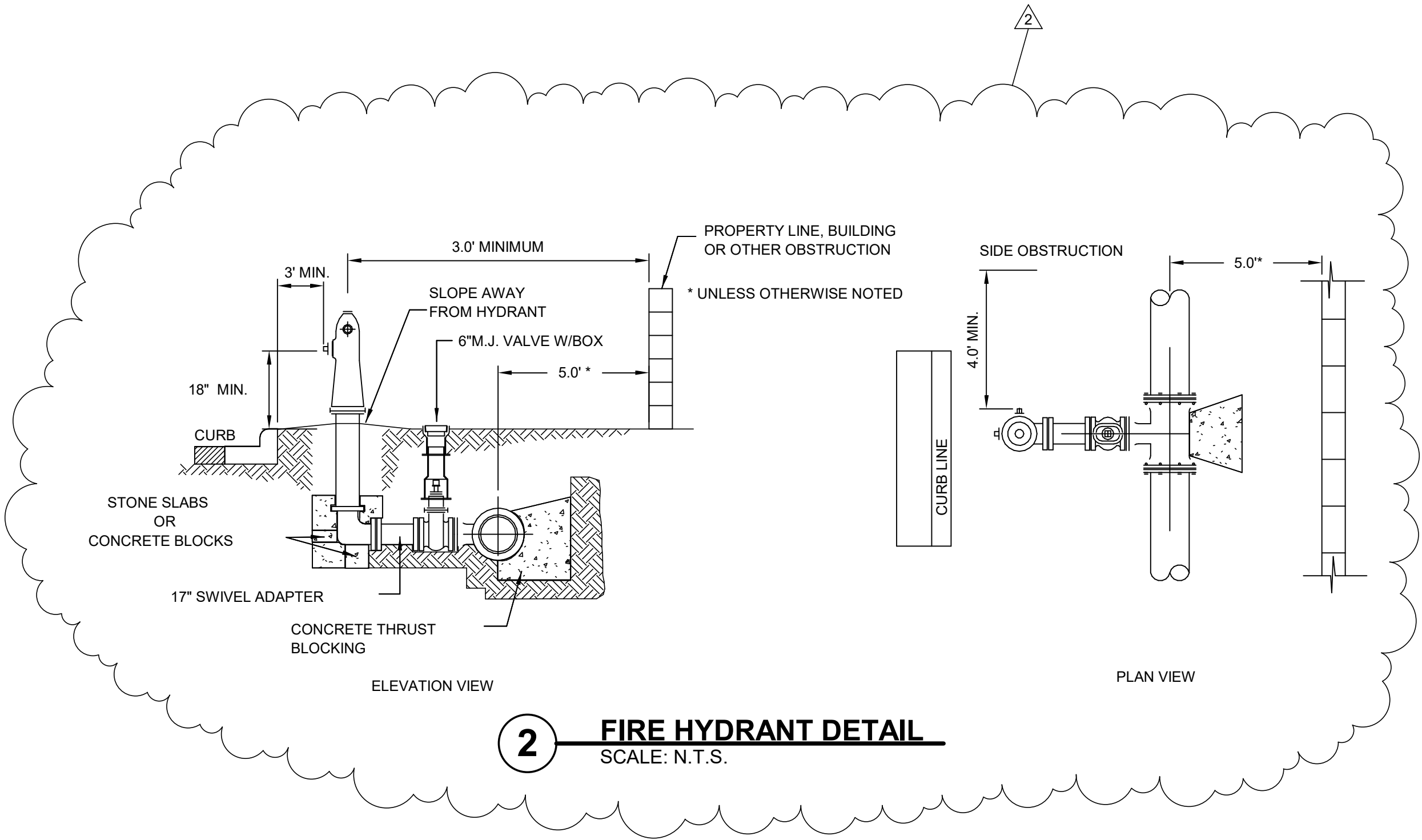
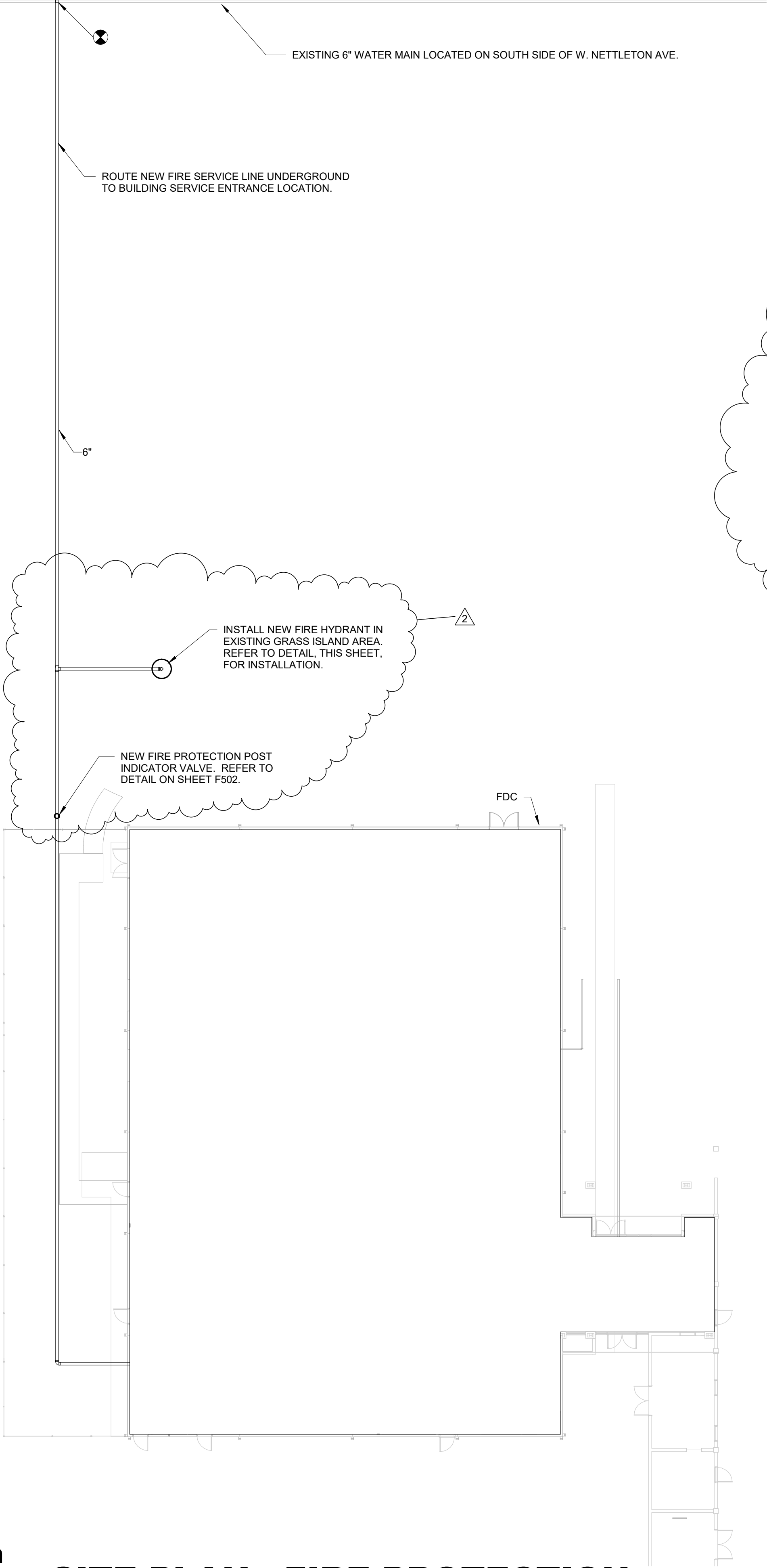
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SITE PLAN - FIRE PROTECTION

SCALE: 1/16" = 1'-0"



2 FIRE HYDRANT DETAIL
SCALE: N.T.S.

- GENERAL NOTES:
1. PROVIDE A WET-PIPE SPRINKLER SYSTEM IN THE AREAS INDICATED IN ACCORDANCE WITH NFPA 13 (2022) AND THE CITY OF JONESBORO.
 2. ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES.
 3. SPRINKLER PIPING IN ELECTRICAL AREAS SHALL BE AVOIDED. SIDEWALL HEADS WITH GUARDS SHOULD BE USED.
 4. ALL SPRINKLER HEADS IN GYMNASIUM AREAS SHALL BE INSTALLED WITH METAL GUARD.

FIRE SUPPRESSION HAZARD CLASSIFICATIONS

LIGHT HAZARD - CEILINGS UP TO 30'-0"

DESIGN DENSITY: 0.10 GPM/S.F

DESIGN AREA: 1,500 S.F.

HYDRANT FLOW: 100 GPM

SPRINKLER K-FACTOR = 5.6

QUALIFICATION OF LIGHT HAZARD

OCCUPANCY CLASSIFICATION:

AN OCCUPANCY WHERE THE QUANTITY AND/OR THE COMBUSTIBILITY OF CONTENTS IS LOW & FIRE WITH RELATIVELY LOW RATES OF HEAT RELEASE ARE EXPECTED. SMALL, SCATTERED AMOUNTS OF FLAMMABLE LIQUIDS IN CLOSED CONTAINERS NOT EXCEEDING 5 GALLONS PER FIRE AREA ARE EXPECTED.

ORDINARY HAZARD - CEILINGS UP TO 30'-0"

DESIGN DENSITY: 0.15 GPM/S.F

DESIGN AREA: 1,500 S.F.

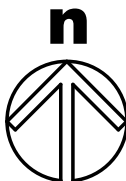
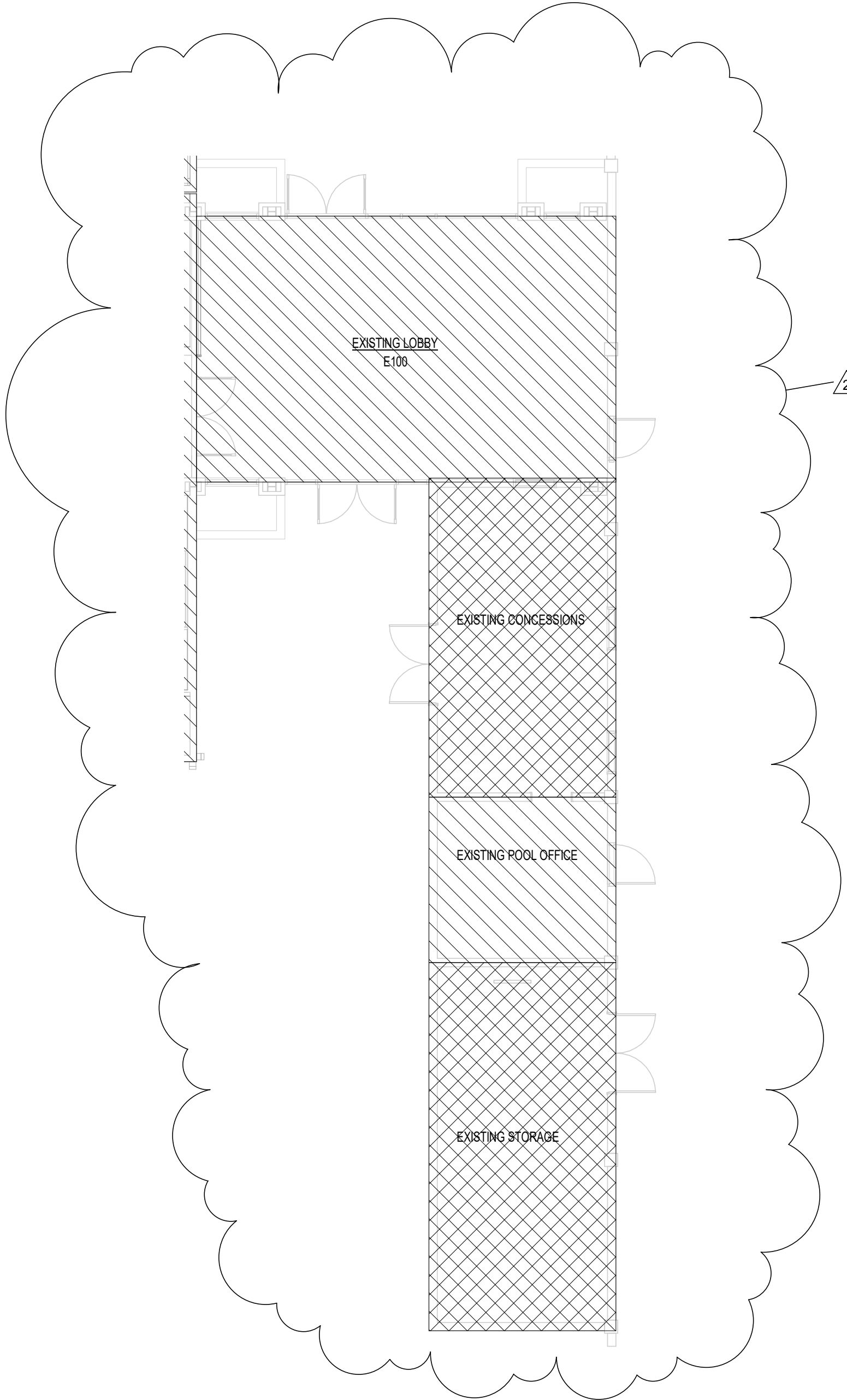
HYDRANT FLOW: 250 GPM

SPRINKLER K-FACTOR = 5.6

QUALIFICATION OF ORDINARY HAZARD:

AN OCCUPANCY WHERE COMBUSTIBILITY IS LOW, THE QUANTITY OF COMBUSTIBLES IS MODERATE, STOCKPILES OF COMBUSTIBLES DO NOT EXCEED 8 FEET, AND FIRES WITH MODERATE RATES OF HEAT RELEASE ARE EXPECTED. MODEST, SCATTERED AMOUNTS OF FLAMMABLE LIQUIDS IN CLOSED CONTAINERS NOT EXCEEDING 20 GALLONS PER FIRE AREA ARE EXPECTED.

THE DESIGN AREAS NOTED ABOVE, AS APPLICABLE, MUST BE INCREASED BY 30 PERCENT FOR SLOPED CEILING THAT EXCEED A SLOPE OF 2 IN 12.



FIRST FLOOR FIRE PROTECTION LOBBY PLAN - NEW

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



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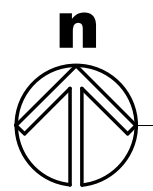
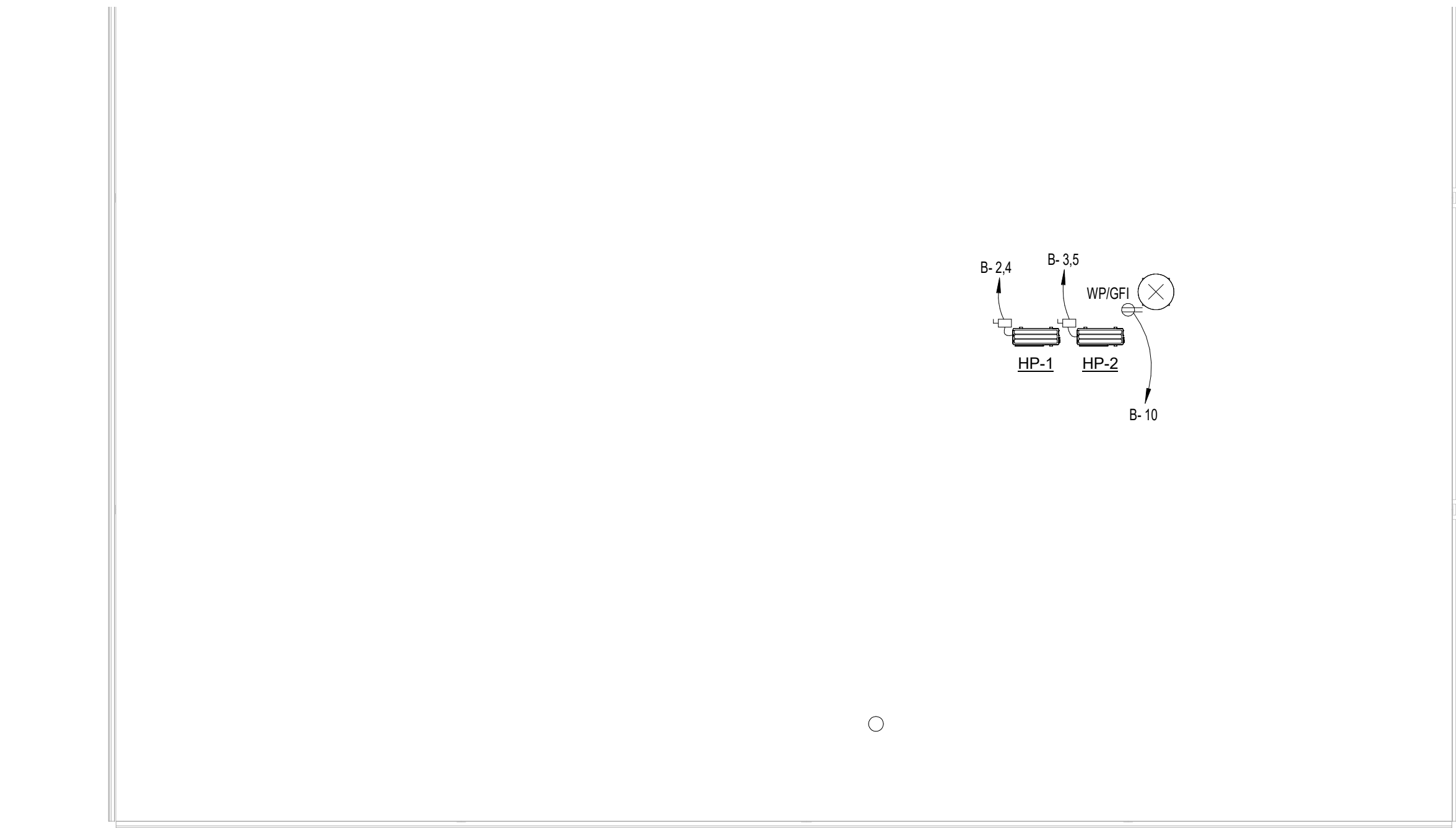
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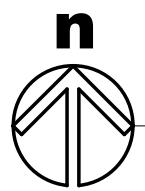
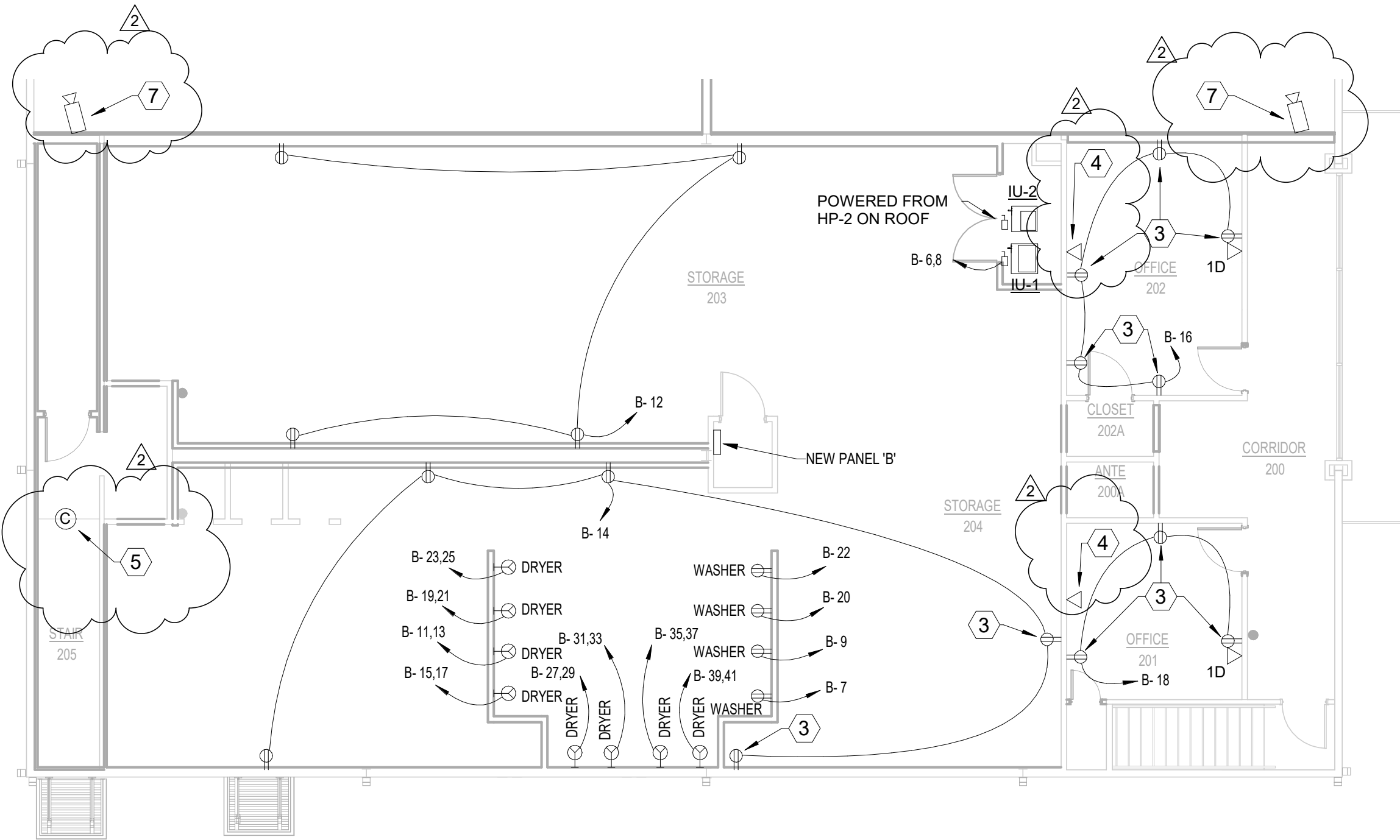
ELECTRICAL KEYED NOTES

- 1 PROVIDE POWER TO JUNCTION BOX ABOVE CEILING TO POWER FLUSH VALVES AND FAUCETS IN EACH RESTROOM. COORDINATE INSTALLATION OF JUNCTION BOX MOUNTED TRANSFORMER PROVIDED BY PLUMBER. PROVIDE FINAL CONNECTION FROM TRANSFORMER TO DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2 PROVIDE JUNCTION BOX WITH CIRCUIT FOR OWNER PROVIDED HAND DRYER. COORDINATE THE EXACT LOCATION OF HAND DRYER WITH THE OWNER PRIOR TO INSTALLATION.
- 3 REUSE EXISTING RECEPTACLE BACK BOX AND CONDUIT AT THIS LOCATION. PROVIDE NEW CIRCUIT, RECEPTACLE, AND COVERPLATE.
- 4 NEW DATA LOCATION. AT EACH LOCATION, PROVIDE TWO RED AND ONE BLUE CAT6 DATA CABLES BACK TO EXISTING DATA RACK. CONTRACTOR SHALL TERMINATE CABLES AT THE DEVICE. THE CITY WILL TERMINATE CABLES AT THE RACK.
- 5 CEILING MOUNTED CAMERA LOCATION. PROVIDE ONE RED CAT6 CABLE BACK TO EXISTING DATA RACK. TERMINATE AND PROVIDE 5' SLACK AT THE CAMERA LOCATION. THE CITY WILL TERMINATE CABLES AT THE RACK.
- 6 CEILING MOUNTED WIFI ACCESS POINT LOCATION. PROVIDE ONE RED CAT6 DATA CABLE BACK TO EXISTING DATA RACK. TERMINATE AND PROVIDE 5' SLACK AT THE ACCESS POINT LOCATION. THE CITY WILL TERMINATE CABLES AT THE RACK.
- 7 WALL MOUNTED CAMERA AND WIFI ACCESS POINT LOCATION. PROVIDE JUNCTION BOX WITH TWO RED CAT6 DATA CABLES IN CONDUIT HIGH ON THE WALL. COORDINATE THE EXACT LOCATION WITH THE OWNER PRIOR TO INSTALLATION. TERMINATE CABLES AT THE JUNCTION BOX. THE CITY WILL TERMINATE CABLES AT THE RACK.



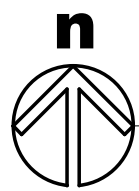
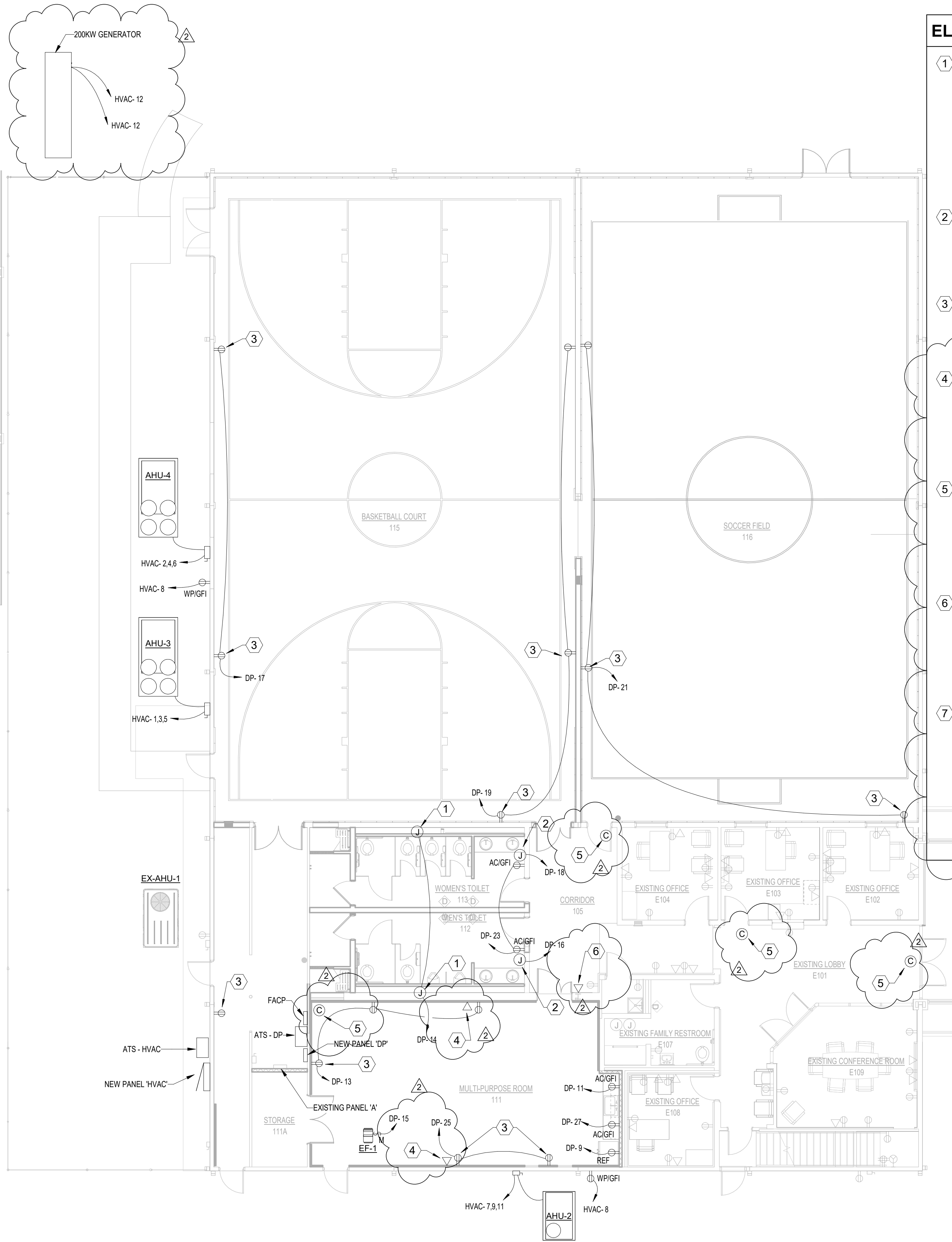
ELECTRICAL PLAN - ROOF - NEW

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



ELECTRICAL PLAN - SECOND FLOOR - NEW

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



ELECTRICAL PLAN - FIRST FLOOR - NEW

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

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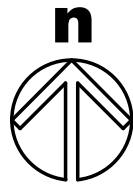
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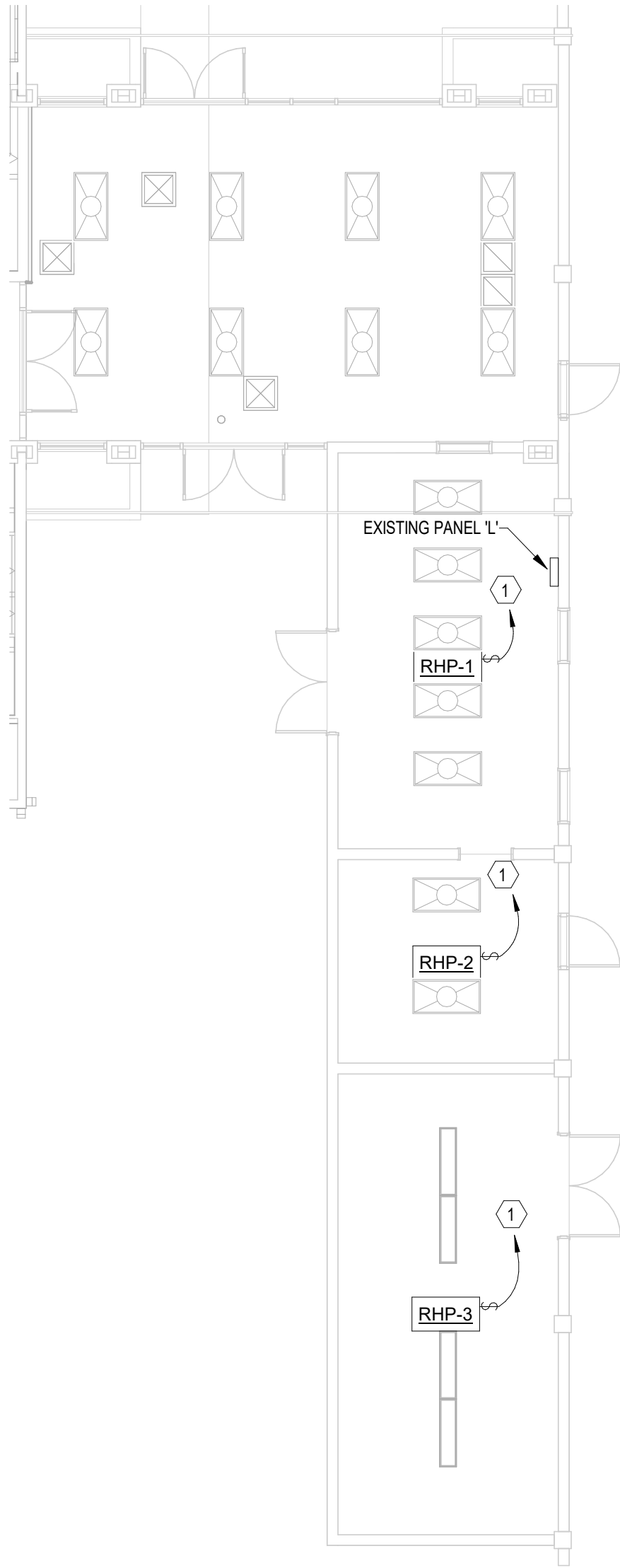
ELECTRICAL KEYED NOTES

- ① PROVIDE A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL 'L' TO POWER NEW RADIANT HEATER PANEL.



ELECTRICAL PLAN - LOBBY

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



PANEL NAME:		VOLTAGE:		PHASE:		WIRE:		NEUTRAL RATING:		PANEL DESCRIPTION:						
DP		120/208 Wye		3		4		100.00%		NEW PANEL 'DP'						
MAINS:		MOUNTING:		MAX NO. OF CIRCUITS		MANUFACTURER:		PANEL AIC RATING:		LOCATION:						
400 A		MLO		SURFACE		42		SQUARE D		22K AIC						
										Space 31						
CKT	DESCRIPTION			BRKR	WIRE	A		B		C		WIRE	BRKR	DESCRIPTION		CKT
1	LGTS - FIRST FLOOR			20A	12	653	11692									2
3	LGTS - GYM			20A	12			1515	10884				3/0	150A	EXISTING PANEL 'A'	4
5	LGTS - GYM			20A	12					1515	14990					6
7	LGTS - EXTERIOR			20A	12	175	15431									8
9	REFRIGERATOR			20A	12			1000	17236				3/0	200A	NEW PANEL 'B'	10
11	RCPT - ABOVE COUNTER			20A	12					180	14338					12
13	RCPT - RM 111			20A	12	540	1000					12	20A		FLUSH VALVES	14
15	EF-1			20A	12			600	1500			12	20A		HAND DRYER	16
17	RCPT - RM 115			20A	12					360	1500	12	20A		HAND DRYER	18
19	RCPT - RM 115			20A	12	540	0						20A		SPARE	20
21	RCPT - RM 116			20A	12			540	0				20A		SPARE	22
23	RCPT - RESTROOMS			20A	12					360	0		20A		SPARE	24
25	RCPT - RM 111			20A	12	360	0						20A		SPARE	26
27	RCPT - ABOVE COUNTER			20A	12			180	0				20A		SPARE	28
29	SPARE			20A						0	0		20A		SPARE	30
31	SPARE			20A		0	0						20A		SPARE	32
33	SPACE							0	0						SPACE	34
35	SPACE									0	0				SPACE	36
37	SPACE					0	0								SPACE	38
39	SPACE							0	0						SPACE	40
41	SPACE									0	0				SPACE	42
Total Load:						30387 VA		33383 VA		33172 VA						
Total Amps:						253 A		282 A		280 A						
NOTES:																

PANEL NAME:		VOLTAGE:		PHASE:		WIRE:		NEUTRAL RATING:		PANEL DESCRIPTION:								
HVAC		120/208 Wye		3		4		100.00%		NEW PANEL 'HVAC'								
MAINS:		MOUNTING:		MAX NO. OF CIRCUITS		MANUFACTURER:		PANEL AIC RATING:		LOCATION:								
600 A	MLO	SURFACE		30		SQUARE D		22K AIC										
CKT	DESCRIPTION			BRKR	WIRE	A		B		C		WIRE	BRKR	DESCRIPTION			CKT	
1						20760	20760											2
3	AHU-3				200A	3/0			20760	20760				3/0	200A	AHU-4	4	
5											20760	20760					6	
7						4920	360						12	20A	RCPT - EXTERIOR		8	
9	AHU-2				50A	6			4920	500			10	20A	BLOCK HEATER		10	
11									4920	500			10	20A	BATTERY CHARGER		12	
13	SPACE						0	0								SPACE	14	
15	SPACE							0	0							SPACE	16	
17	SPACE									0	0					SPACE	18	
19	SPACE						0	0				0	0			SPACE	20	
21	SPACE								0	0						SPACE	22	
23	SPACE										0	0				SPACE	24	
25	SPACE						0	0								SPACE	26	
27	SPACE								0	0						SPACE	28	
29	SPACE										0	0				SPACE	30	
Total Load:						46800 VA		46940 VA		46940 VA								
Total Amps:						390 A		391 A		391 A								
NOTES:																		

PANEL NAME:		VOLTAGE:		PHASE:		WIRE:		NEUTRAL RATING:		PANEL DESCRIPTION:							
B		120/208 Wye		3		4		100.00%		NEW PANEL 'B'							
MAINS:		MOUNTING:		MAX NO. OF CIRCUITS		MANUFACTURER:		PANEL AIC RATING:		LOCATION:							
225 A MLO		SURFACE		42		SQUARE D		22K AIC		STORAGE 5							
CKT	DESCRIPTION			BRKR	WIRE	A		B		C		WIRE	BRKR	DESCRIPTION			CKT
1	LGTS - UPPER LEVEL			20A	12	954	3328					8	50A	HP-1			2
3	HP-2			40A	8			3328	3328								4
5										3328	750						6
7	WASHER			20A	12	1000	750					12	15A	IU-1			8
9	WASHER			20A	12			1000	180								10
11	DRYER			30A	10		900			1500	720	12	20A	RCPT - ROOF			12
13												12	20A	RCPT - RM 203			14
15	DRYER			30A	10			1500	900			12	20A	RCPT - RM 204			16
17										1500	540	12	20A	RCPT - RM 202			18
19	DRYER			30A	10	1500	1000					12	20A	RCPT - RM 201			20
21								1500	1000			12	20A	WASHER			22
23	DRYER			30A	10					1500	0			SPACE			24
25						1500	0							SPACE			26
27	DRYER			30A	10			1500	0					SPACE			28
29										1500	0			SPACE			30
31	DRYER			30A	10	1500	0							SPACE			32
33								1500	0					SPACE			34
35	DRYER			30A	10					1500	0			SPACE			36
37						1500	0							SPACE			38
39	DRYER			30A	10			1500	0					SPACE			40
41										1500	0			SPACE			42
Total Load:						15431 VA		17236 VA		14338 VA							
Total Amps:						130 A		145 A		119 A							
NOTES:																	

LIGHTING FIXTURE SCHEDULE				
MARK	MANUFACTURER	MODEL	ELECTRICAL DATA	DESCRIPTION
A1	COLUMBIA LIGHTING	LCAT24-40VWG-ED-U	120 V/1-24 VA	2X4 LED VOLUMETRIC RECESSED, 3000 LUMEN, 4000K
A2	COLUMBIA LIGHTING	LCAT22-40MWG-ED-U	120 V/1-18 VA	2X2 LED VOLUMETRIC, 2000 LUMEN, 4000K
B	COLUMBIA LIGHTING	CSL4-LSCS	120 V/1-30 VA	4' LED LINEAR STRIP FIXTURE
C	PRESCOLITE LIGHTING	LBSE-6RD-35K8-WH	120 V/1-32 VA	6" LED DOWNLIGHT 1000 LUMEN, 3500K
H	COLUMBIA LIGHTING	CLB2-40MM-W-EDU	120 V/1-101 VA	LED HIGHBAY FIXTURE, 14,000 LUMEN, 4,000K
W	HUBBELL LIGHTING	TRP2-D-20-4K7-WT-120-COLOR-PC-E	120 V/1-25 VA	LED WALL PACK W/ EMERGENCY BATTERY BACKUP, 3000 LUMEN
X	LITHONIA	LQM-S-W-3-R-120/277-ELN	120 V/1-5 VA	WALL MOUNT LED EXIT SIGN

ELECTRICAL EQUIPMENT SCHEDULE							
MARK	DESCRIPTION	VOLTAGE/PHASE	MCA	MOCP	CIRCUIT	DISCONNECT	COMMENTS
AHU-2	AIR HANDLING UNIT	208V/3-PHASE	41 A	50 A	3/4"C-3#6,1#10(G)	60A/3P, NEMA 3R, NON-FUSIBLE	
AHU-3	AIR HANDLING UNIT	208V/3-PHASE	173.3 A	200 A	2"C-3#3/0,1#6(G)	200A/3P, NEMA 3R, NON-FUSIBLE	
AHU-4	AIR HANDLING UNIT	208V/3-PHASE	173.3 A	200 A	2"C-3#3/0,1#6(G)	200A/3P, NEMA 3R, NON-FUSIBLE	
HP-1	HEAT PUMP	208V/1-PHASE	32 A	50 A	3/4"C-2#8,1#10(G)	60A/2P, NEMA 3R, NON-FUSIBLE	
HP-2	HEAT PUMP	208V/1-PHASE	31.3 A	40 A	3/4"C-2#8,1#10(G)	60A/2P, NEMA 3R, NON-FUSIBLE	NOTE 1
IU-1	AIR HANDLING UNIT	208V/1-PHASE	7.2 A	15 A	3/4"C-2#12,1#12(G)	30A/2P, NEMA 1, NON-FUSIBLE	
IU-2	AIR HANDLING UNIT	208V/1-PHASE	A	A	3/4"C-2#12,1#12(G)	30A/2P, NEMA 1, NON-FUSIBLE	NOTE 1
EF-1	EXHAUST FAN	120V/1-PHASE	7.2 A	15 A	3/4"C-1#12,1#12(N),1#12(G)	MOTOR RATED TOGGLE	
RHP-1	RADIANT HEATER PANEL	120V/1-PHASE	6.25 A	20 A	3/4"C-1#12,1#12(N),1#12(G)	MOTOR RATED TOGGLE	
RHP-2	RADIANT HEATER PANEL	120V/1-PHASE	6.25 A	20 A	3/4"C-1#12,1#12(N),1#12(G)	MOTOR RATED TOGGLE	
RHP-3	RADIANT HEATER PANEL	120V/1-PHASE	6.25 A	20 A	3/4"C-1#12,1#12(N),1#12(G)	MOTOR RATED TOGGLE	

NOTES:
1. INDOOR UNIT (IU-2) IS POWERED FROM CORRESPONDING OUTDOOR UNIT (HP-2). PROVIDE CONNECTION FROM OUTDOOR TO INDOOR UNITS PER MANUFACTURER'S REQUIREMENTS.

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