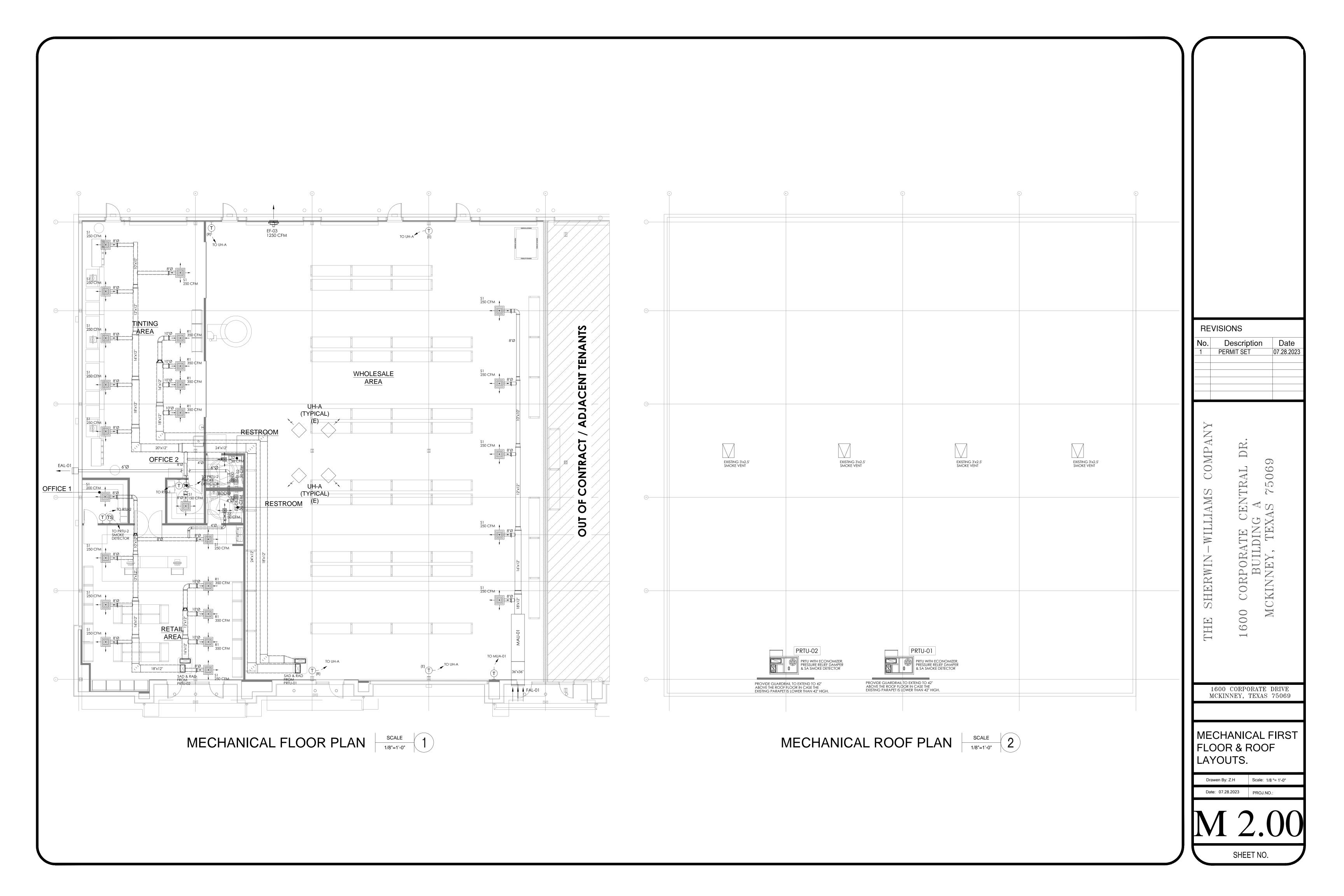
GDI ENGINEERING



Sherwin Williams Retail Store

Retail

McKinney, Texas



SCHEDULE No. 1 PACKAGED ROOFTOP UNIT - HEAT PUMP TYPE

TAG	PRTU-01	PRTU-02
LOCATION	ROOF	ROOF
MANUFACTURER	CARRIER OR EQUAL	CARRIER OR EQUAL
MODEL	50FCQA06G2M5-0B0A0	50FCQA05G2M5-0B0A0
COOLING STAGES / ID FAN STAGES	1/1	1/1
NOMINAL CAPACITY (TONS)	5.0	4.0
NET COOLING CAPACITY (MBH)	60.5	49.5
EER / SEER	11.8 / 14.3	11.8 / 14.3
HIGH HEATING CAPACITY (MBH)	56.5	46
HIGH HEATING COP	3.8	3.7
LOW HEATING CAPACITY (MBH)	30	23.6
LOW HEATING COP	2.3	2.28
HSPF	8.2	8.2
SELECTED SUPPLY AIR FLOW (CFM)	1750	1500
OUTDOOR AIR FLOW (CFM)	500	450
MCA	31	26
MOCP (A)	45	30
VOLTS / PH / Hz	208-230 / 3 / 60	208-230 / 3 / 60
SOUND RATING (dB)	79	79
CURB BASE DIMENSIONS (LxW)	5' 7- ³ / ₈ " x 3' 1- ⁵ / ₈ "	5' 7- ³ / ₈ " x 3' 1- ⁵ / ₈ "
WEIGHT WITH ACCESSORIES (lb)	777	680

NOTES:

- 1. RTU SHALL HAVE A FACTORY INSTALLED MOTORIZED ECONOMIZER WITH BAROMETRIC RELIEF DAMPER AND CO2 SENSOR IN THE RETURN DUCT TO ADJUST THE OA % AND TO ALLOW FREE COOLING.
- 2. RTU SHALL BE MEDIUM STATIC TYPE.
- 3. RTU SHALL HAVE FILTERS SEPARATE FILTERS FOR BOTH THE RETURN AIR AND OUTDOOR AIR SIDES.
- 4. OUTDOOR COIL SHOULD HAVE FACTORY INSTALLED LOUVERED HAIL GUARD.
- 5. PROVIDE REMOTE FILTER STATUS INDICATOR FOR EACH FILTER SET.
- 6. PROVIDE FACTORY SUPPLIED ROOF CURBS, VALIDATE THE ROOF CURB HEIGHT WITH THE OWNER
- PRIOR TO ORDER.
- 7. PROVIDE SUPPLY AIR FACTORY INSTALLED SMOKE DETECTOR. 8. PROVIDE REMOTE TEST SWITCH FOR DUCT SMOKE DETECTOR.

SCHEDULE No. 4

AIR OUTLETS

TAG	DESCRIPTION	MANUFACTURER	MODEL	SIZE	MOUNTING
S1	SUPPLY SQUARE DIFFUSER	TITUS OR EQUAL	TDC-AA	24" x 24"	CEILING WITH PLENUM BOX & ROUND INLET.
S2	SUPPLY SQUARE DIFFUSER	TITUS OR EQUAL	TDC-AA	8" x 8"	CEILING WITH PLENUM BOX & ROUND INLET.
R1	RETURN SQUARE DIFFUSER	TITUS OR EQUAL	TDC-AA	24" x 24"	CEILING WITH PLENUM BOX & ROUND INLET.
E1	EXHAUST GRILL - $\frac{1}{2}$ " BAR SPACING - 0° BLADE DEFLECTION	TITUS OR EQUAL	55FS-NT	6" x 6"	CEILING WITH ROUND INLET.
FAL-01	6" DRAINABLE BLADE FRESH AIR LOUVER	GREENHECK OR EQUAL	ESD-635-36x36	36" x 36"	WALL MOUNTED.
EAL-01	4" DRAINABLE HEAD J BLADE EXHAUST AIR LOUVER	GREENHECK OR EQUAL	EDJ-401-14x14	14" x 14"	WALL MOUNTED.

NOTES:

- 1. COORDINATE FINISH, COLOR, BORDER AND EXACT LOCATION WITH THE OWNER PRIOR TO ORDERING.
- 2. PROVIDE OPPOSED BLADE DAMPER ACCESSIBLE THROUGH DIFFUSER FACE FOR GYP BD. CEILING INSTALLATIONS.
- 3. PROVIDE DUCT TRANSITIONS AS REQUIRED.

SCHEDULE No. 2 FAN SCHEDULE

TAG	EF-01 & EF-02	EF-03
LOCATION	RESTROOMS	WHOLESALE AREA
SELECTED FLOW (CFM)	55	1250
SELECTED PRESSURE DROP (IN. H2O)	0.3"	0.1"
ELECTRICAL (V / PH / HZ)	115 / 1 / 60	208 / 1 / 60
MCA	0.2 A	2.6 A
МОСР	15 A	15 A
MOTOR SPEED	900 RPM	674 RPM
FAN TYPE	DIRECT DRIVE CEILING FAN	SIDEWALL DIRECT DRIVE FAN
MANUFACTURER	GREENHECK OR EQUAL	GREENHECK OR EQUAL
MODEL	SP-B80	AER-20-03-0615-VG
WEIGHT	9 lbs	60 lbs
DIMENSIONS HxWxL	7" x 14" x 12"	26" x 26" x 17"

NOTES:

- 1. PROVIDE UL LISTING.
- 2. PROVIDE ENERGY STAR COMPLIANCE.
- 3. BATHROOM FANS TO RUN IN CONTINUOUS DUTY.
- 4. PROVIDE MOTOR WITH THERMAL OVERLOADS.
- 5. EQUIP EF-03 WITH WALL HOUSING. 6. INTERLOCK EF-03 WITH MAU-01.

SCHEDULE No. 3 MAKE-UP AIR UNIT SCHEDULE

TAG	MAU-01
LOCATION	WHOLESALE AREA
MANUFACTURER	GREENHECK OR EQUAL
MODEL	SP-B80
INSTALLATION	INDOORS CEILING MOUNTED
HEATER CAPACITY (kW)	15.5
TEMPERATURE RISE (°F)	39.2
MOTOR SIZE	1/2 HP
SELECTED FLOW (CFM)	1250
SELECTED PRESSURE DROP (IN. H2O)	0.5"
ELECTRICAL (V / PH / HZ)	208 / 3 / 60
MCA	57.2 A
MOCP	60 A
FAN SPEED	1006 RPM
SOUND RATING	54.9 dBA
WEIGHT	953 lbs
DIMENSIONS HxWxL	39" x 34" x 122"

NOTES:

- 1. PROVIDE UL / cUL 1995 LISTING FOR THE UNIT.
- 2. PROVIDE AIR FILTERS FROM THE SUCTION SIDE.
- 3. PROVIDE MOTOR WITH THERMAL OVERLOADS.
- 4. PROVIDE MOTORIZED SUCTION SIDE AIR DAMPER. 5. MOTOR EFFICIENCY SHALL BE NEMA PREMIUM.
- 6. UNIT TO HAVE ON BOARD CONTROLLER TO ENABLE THE
- UNIT INCLUDING THE DAMPER, FAN, AND HEATER.
- 7. INTERLOCK MAU-01 WITH EF-03.

VENTILATION LOAD CALCULATION IMC 2021 TABLE 403.3.1.1												
ROOM N°	ROOM NAME	IMC OCCUPANCY CLASS	AREA (ft²) Az	Ra CFM/ft²	Az x Ra CFM	Pz Pers. / 1000ft ²	Pers.	Rp CFM/Pers.	Rp x Pz CFM	Vbz CALC. CFM	CORRECTED CFM AFTER Ez=0.8	SOURCE OF OA
400	OFFICE 1	OFFICE SPACES	106	0.06	6	5	1	5	5	11	14	PRTU-02
410	OFFICE 2	OFFICE SPACES	81	0.06	5	5	1	5	5	10	13	PRTU-02
100	RETAIL SALES	RETAIL - SALES	1283	0.12	154	15	19	7.5	143	297	371	PRTU-02
300	TINTING AREA	RETAIL - SALES	1547	0.12	186	15	23	7.5	173	359	449	PRTU-01
200	WHOLESALE AREA	RETAIL - SHIPPING & RECEIVING	6895	0.12	827	2	14	10	140	967	1210	MAU-01
MINIMUM VENTILATION REQUIRED (CFM)									1644	2057		

NOTES:

1. SYSTEM VENTILATION EFFICIENCY EV IS 0.8 DUE TO THE SUPPLY AND RETURN AIR OUTLETS BEING LOCATED AT THE CEILING LEVEL. RESULTS AFTER EV ARE INDICATED SHOWN UNDER CORRECTED CFM.

2. TOILETS REQUIRE EXHAUST AIR AT A RATE OF 50CFM PER URINAL / WC AND PLANNED FOR CONTINUOUS DUTY.

REVISIONS Date PERMIT SET

No. Description

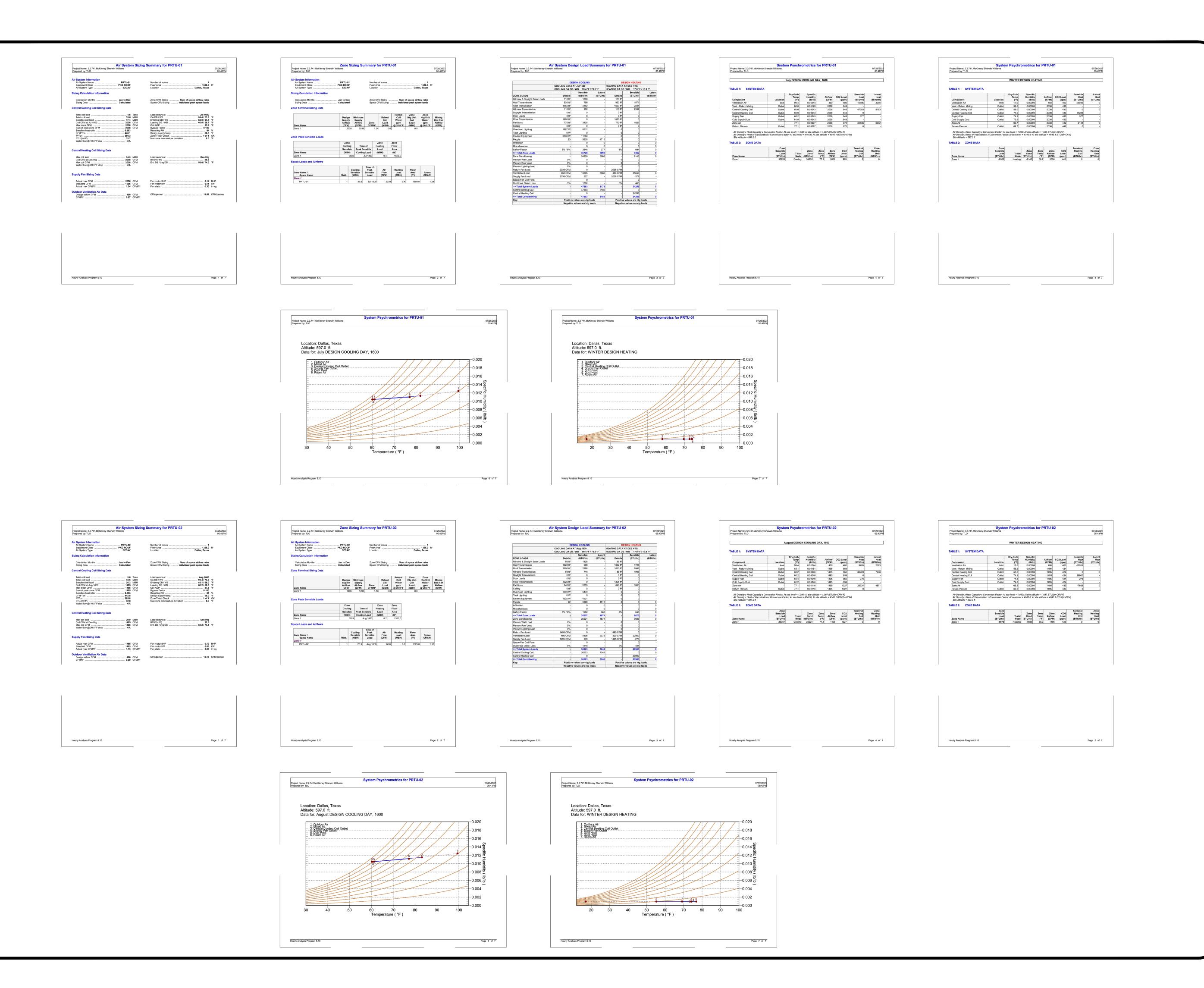
CORPORATE CENT BUILDING A KINNEY, TEXAS 7 009

1600 CORPORATE DRIVE MCKINNEY, TEXAS 75069

MECHANICAL SCHEDULES.

> Drawen By: Z.H Scale: NTS Date: 07.28.2023 PROJ.NO.:

SHEET NO.



REVISIONS

No. Description

PERMIT SET

DR

AL

00 CORPORATE CENT BUILDING A MCKINNEY, TEXAS 7

1600 CORPORATE DRIVE MCKINNEY, TEXAS 75069

HEAT LOAD

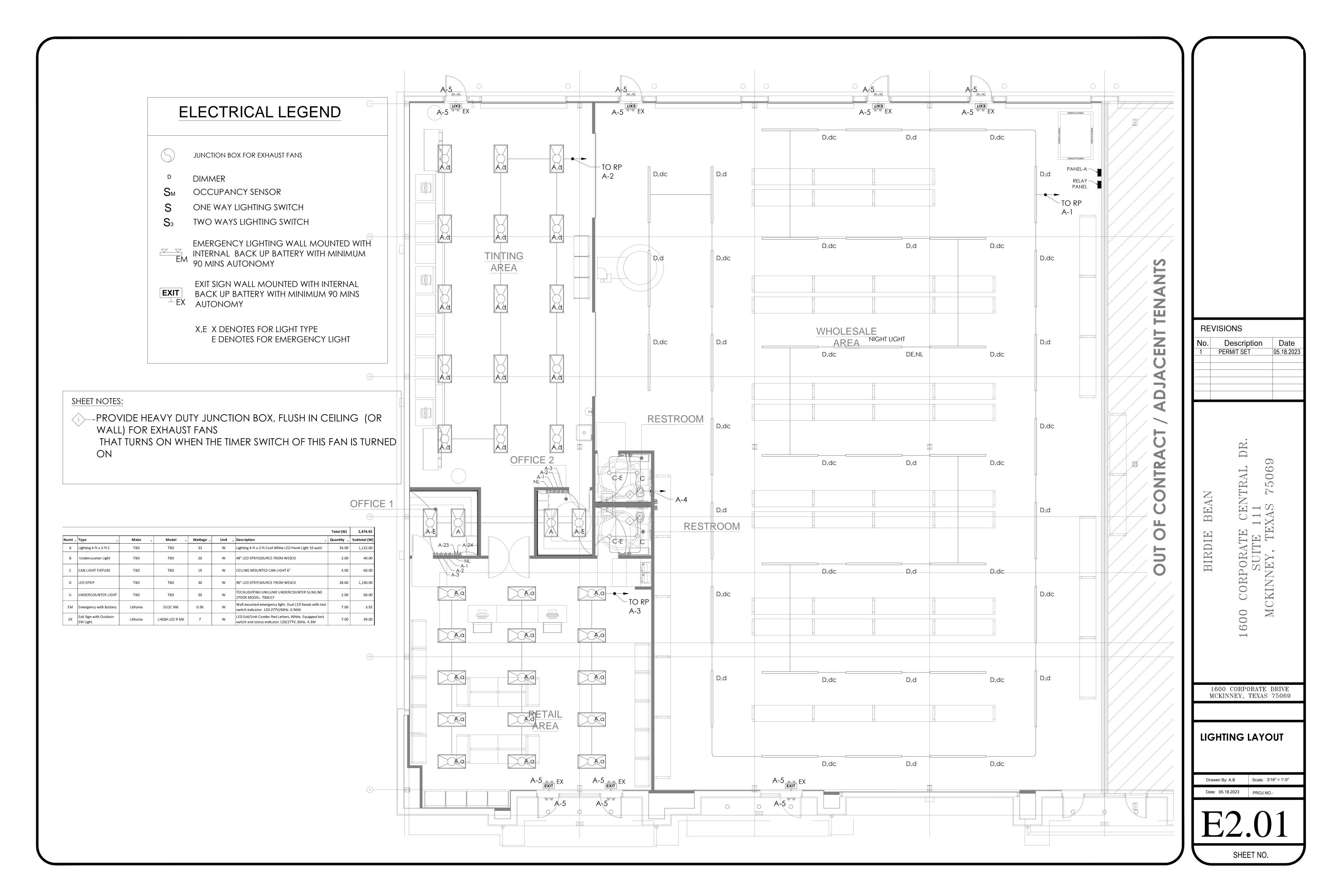
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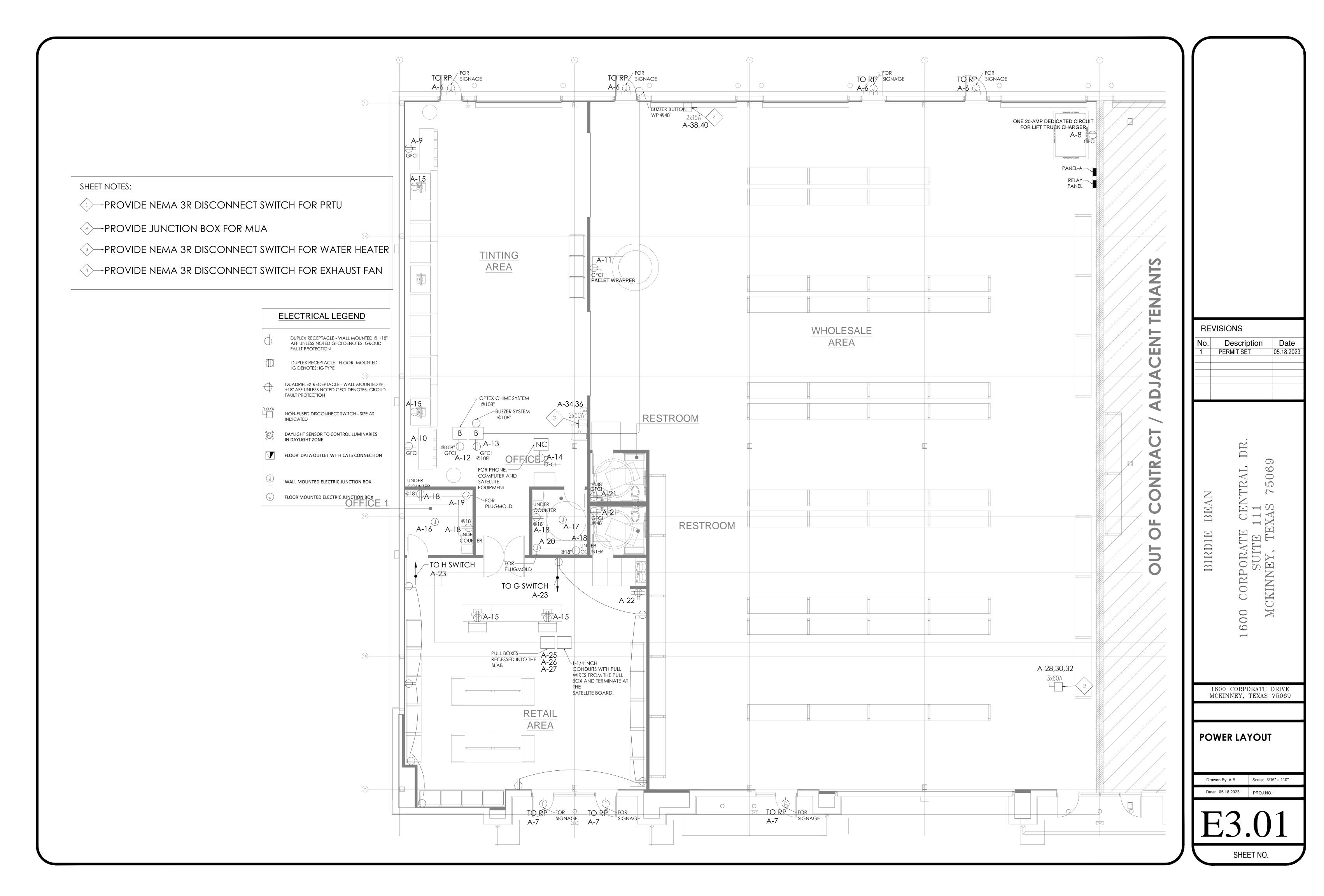
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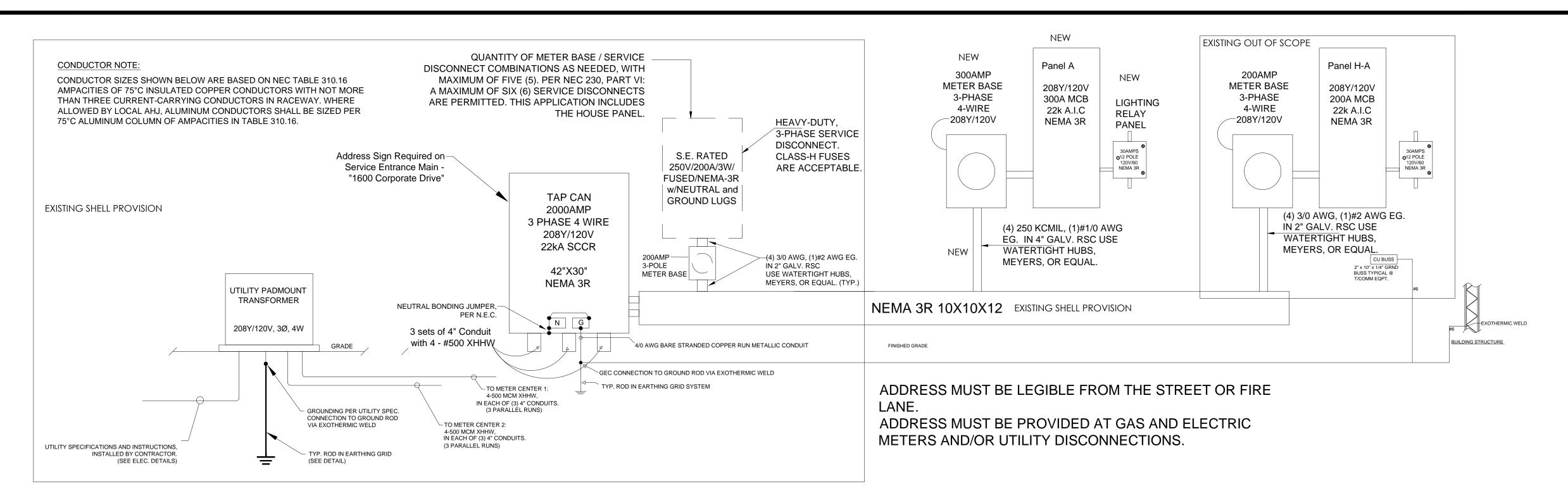
Date: 07.28.2023 PROJ.NO.:

SHEET NO.

Date





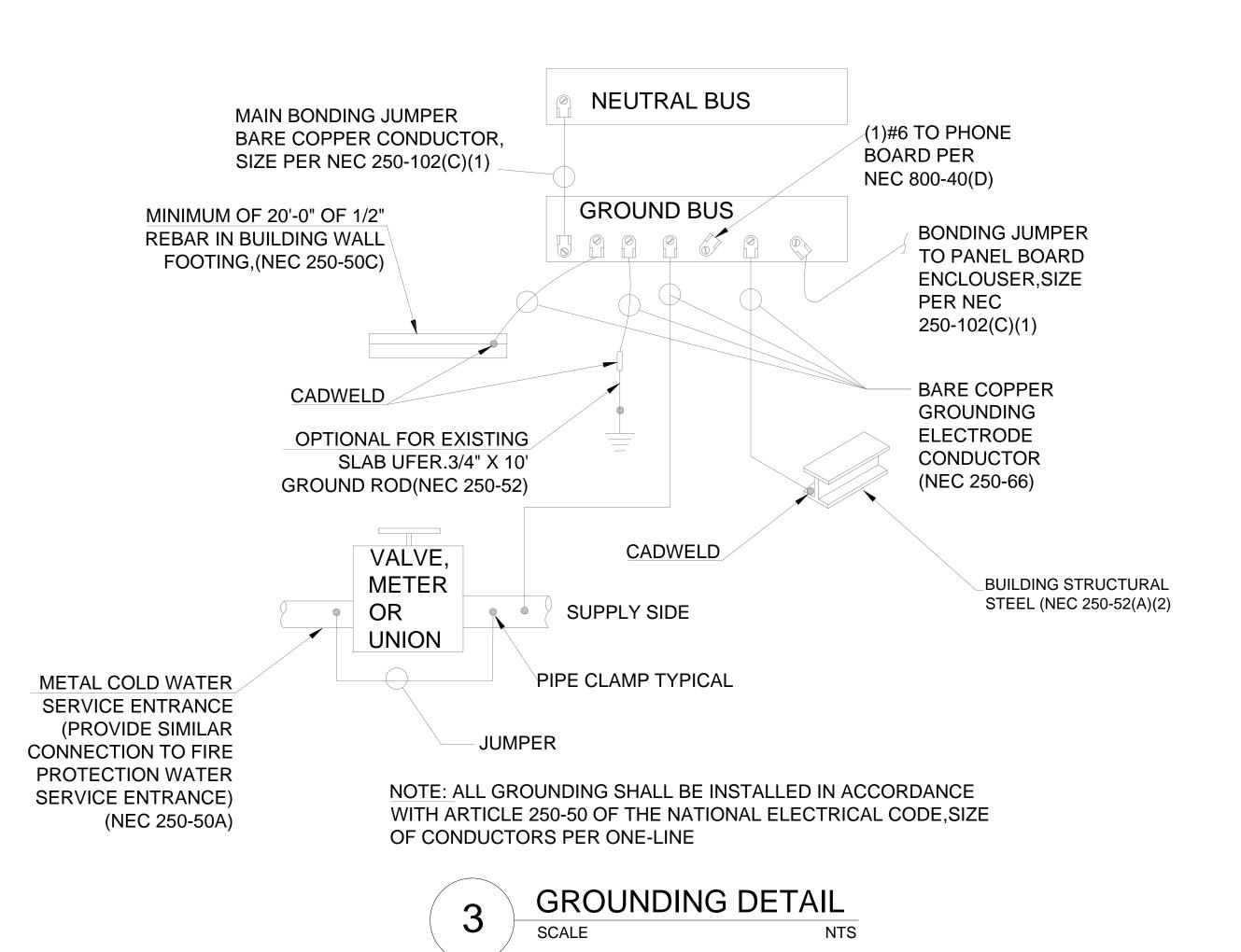


Location: -

SPACE

(KVA)





i r							I			DEMA		<u></u>						
*	LOAD SUMMARY	CL		DF		Α	_	3	С	тот								
-	Lighting	5.59		1.25		3.14	0.		1.70	6.9		SYSTEM VOLTAGE		208/120V, 3Φ, 4W				
	Convenience Recept	15.38				7.50	3.		4.16	12.6		BUS SIZE		300				
\vdash	Heating (Space)	12.00		1.25			6.0	00	6.00	15.0	00	SYSTEM TYPE			NORMAL 2004 2D C/D DIVID			
\rightarrow	Cooling			1.00		44.00			40.70			FEEDER PROT CONDUCTOR SIZE			300A-3P C/B Bus Plug			
	HVAC	41.74		1.00		14.02	14.	.02	13.70	41.7	74		TOR/PHASE			250-kcmil - #1/0G CU		,
-	Process Other Continuous			1.00								MAINS	IONPHASE			1 300A MCB		
-												SCCR				FULLY RATED		
-	Kitchen Noncontinuous	7.20		1.00		1.80	3.6	80	1.80	7.2	10		ING			FOLLY RATED		
	Motor	7.20		1.00		1.00	3.0	50	1.00	1.2	.0	MCB RATING GROUND FAULT			NO			
\vdash	Total	81.91		1.00		26.45	28.	10	27.36	83.6	62		LENGTH (FT)			75		
L	Total	61.91	<u> </u>			20.40	20.	. 10	21.00	00.0	52		V. DROP (%)			0.967		
Ī	Total Demand Load (KVA)	83.62	1									FAULT CL				0.501		
		232.10										KAIC RAT				22		
		290.13										ENCLOSU	JRE			TYPE 1		
L			J															
	DESCRIPTION	١	*	WIRE	GRD	СВ	KVA	Α	В	С	KVA	СВ	WIRE	GRD	D	ESCRIPTION	*]
1	LIGHITNG OPEN SPA	ACE	L	2x 14 AWG	- #14G	15A-1P	1.14	1.64			0.50	15A-1P	2x 14 AWG	- #14G	LIGHT	TING OPEN SPACE	L	2
3	LIGHTING OPEN SPA	ACE	L	2x 14 AWG	- #14G	15A-1P	0.50		0.76		0.26	15A-1P	2x 14 AWG	- #14G	LIGHTING	OFFICES - RESTROOMS	L	4
5	EMERGENCY LIGHT	ING	L	2x 14 AWG	- #14G	15A-1P	0.20			1.70	1.50	20A-1P	2x 12 AWG	- #12G	SIGNAGE		L	6
7	SIGNAGE		L	2x 12 AWG	- #12G	20A-1P	1.50	3.30			1.80	20A-1P	2x 12 AWG	- #12G	LIFT	LIFT TRUCK CHARGER		8
9	SHAKER TABLE		Ν	2x 12 AWG	- #12G	20A-1P	1.80		3.60		1.80	20A-1P	2x 12 AWG	- #12G	S	SHAKER TABLE N		10
11	PALLET WRAPPE	R	Ν	2x 12 AWG	- #12G	20A-1P	1.80			2.80	1.00	20A-1P 2x 12 AWG - #12G OPTE		EX CHIME SYSTEM		12		
13	BUZZER SYSTEM	1	R	2x 12 AWG	- #12G	20A-1P	1.00	2.50			1.50	20A-1P	2x 12 AWG	- #12G		FOR PHONE-COMPUTER SATELLITE	- R	14
15			R	2x 12 AWG	- #12G	20A-1P	1.00		2.00		1.00	20A-1P	2x 12 AWG	- #12G	CEILING MC	OUNTED JUNCTION BOX @ OFFICE	R	16
17	CEILING MOUNTED JUNCTION OFFICE	ON BOX @	R	2x 12 AWG	- #12G	20A-1P	1.00			1.72	0.72	20A-1P	2x 12 AWG	- #12G	RECE	PTACLES OFFICES	R	18
19	PLUGMOLD		R	2x 12 AWG	- #12G	20A-1P	1.50	3.00			1.50	20A-1P	2x 12 AWG	- #12G		PLUGMOLD		20
21	RECEPTACLES GFCI RES	STROOMS		2x 12 AWG		20A-1P	0.36		0.72		0.36	20A-1P	2x 12 AWG	- #12G	QUAI	DRO RECEPTACLE		22
23				2x 12 AWG		20A-1P	0.72			1.44	0.72	20A-1P	2x 12 AWG			TACLES SALES AREA		24
25				2x 12 AWG		20A-1P	1.00	2.00			1.00	20A-1P	2x 12 AWG	- #12G	PULL	BOX SALES AREA		26
27		REA	R	2x 12 AWG	- #12G	20A-1P	1.00		7.86		6.86							28
29			Α				3.72			10.58	6.86	60A-3P	4x 12 AWG	- #12G		MUA-01	A	30
31	PRTU-01		Α	4x 6 AWG	-#10G	45A-3P	3.72	10.58			6.86							32
33			Α				3.72		9.72		6.00	20A-2P	2x 12 AWG	- #12G		EWH-01		34
35			Α				3.12			9.12	6.00						Н	36
37	PRTU-02		Α	4x 10 AWG	- #10G	35A-1P	3.12	3.43			0.31	454.05	0 44 414/0	"116		== 00	Α	38

15A-2P 2x 14 AWG - #14G

0.31

3.12

Total Connected Load 26.45 28.10 27.36

3.43

EF-03

SPACE

CONNECTED LOAD

PANEL A

PANELBOARD DESIGNATION

REV	ISIONS	
No. 1	Description PERMIT SET	05.18.20
BIRDIE BEAN	RATE CENTRAL IITE 111	MCAINNEY, IEAAS 73009
	300 CORPORATE CKINNEY, TEXAS	

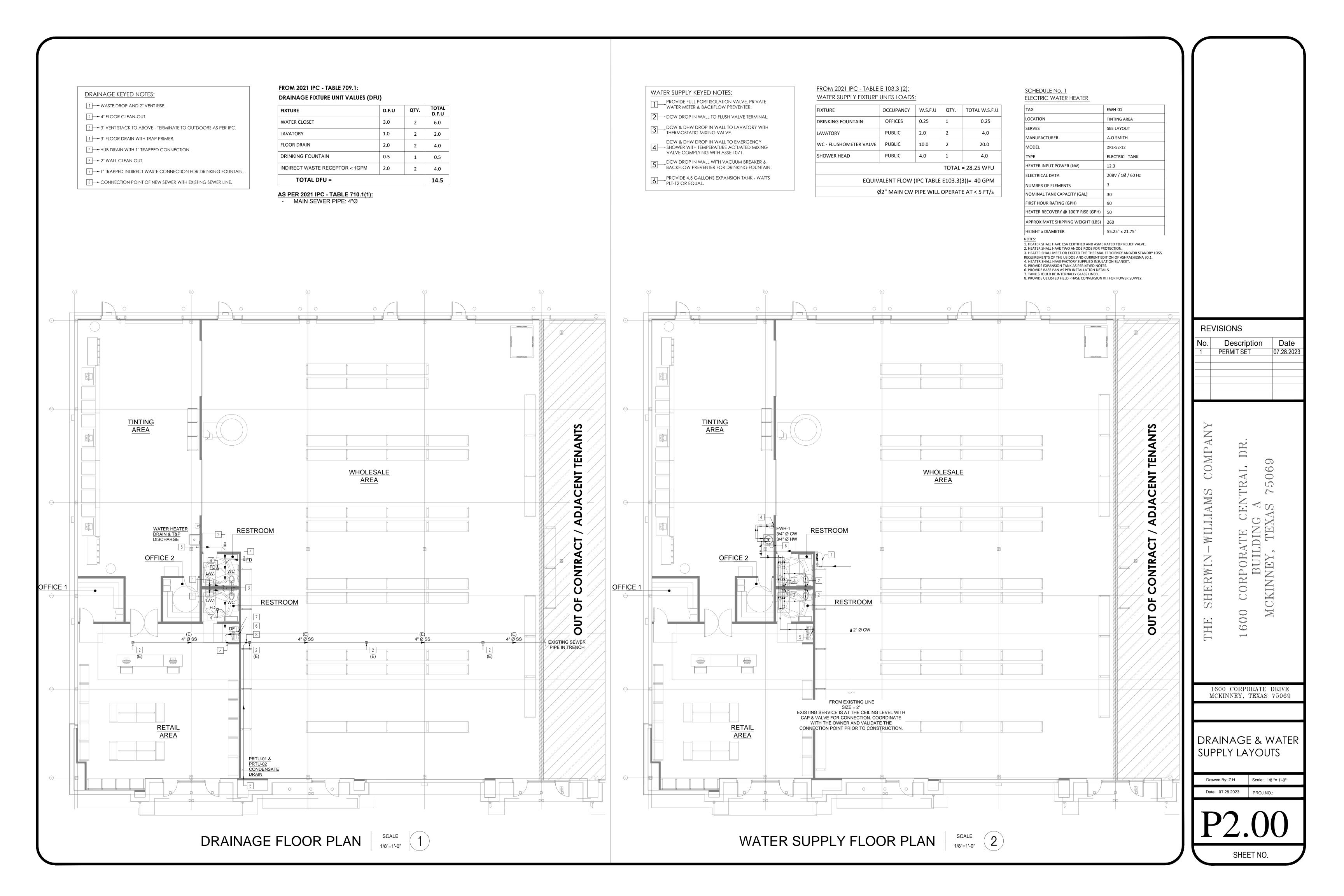
& PANEL BOARD

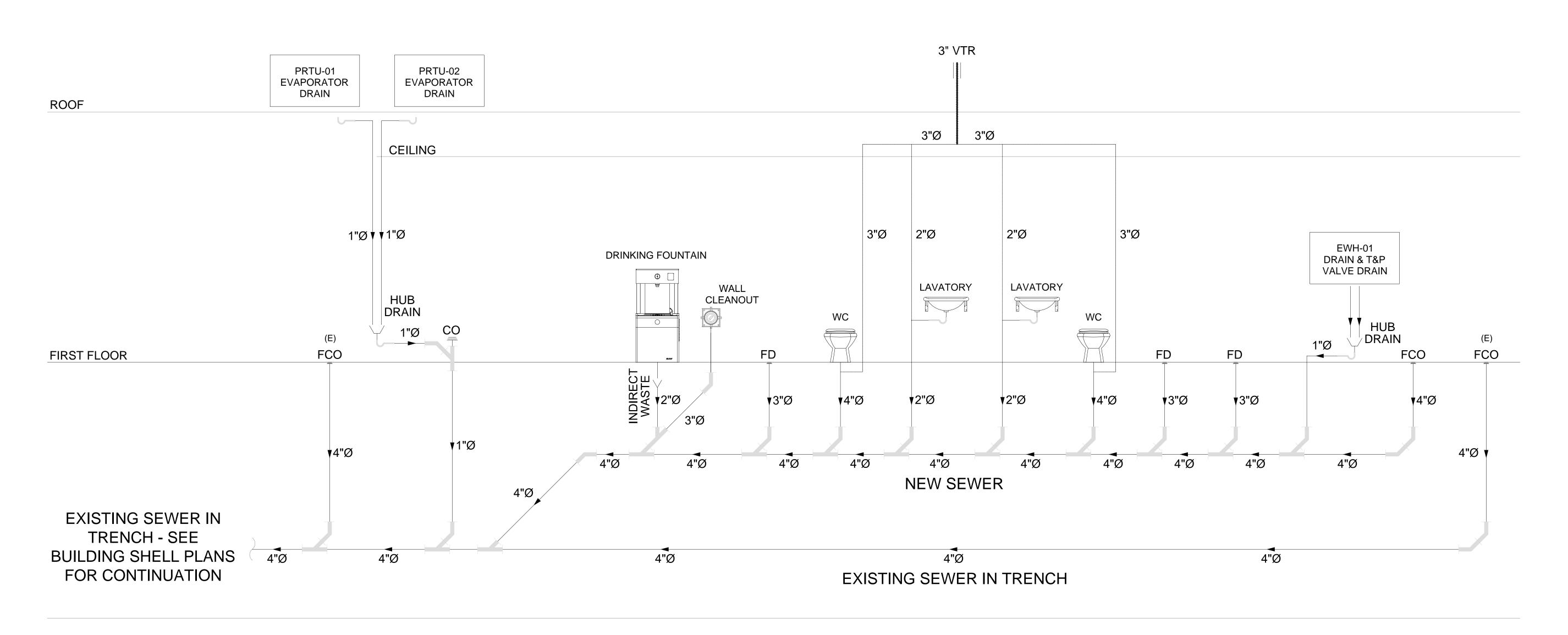
Drawen By: A.B Scale: NTS

SHEET NO.

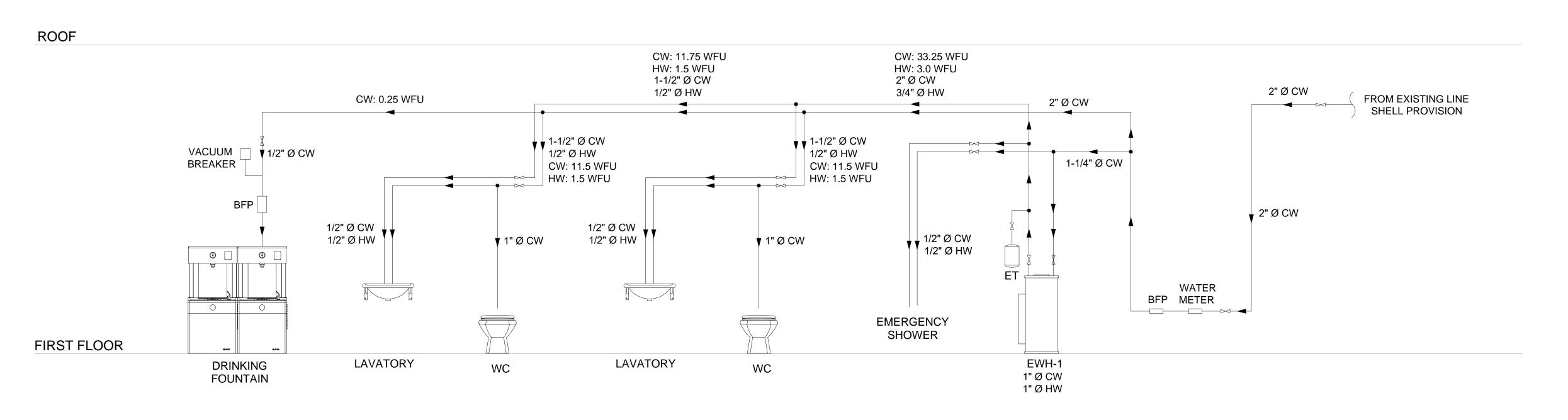
Date: 05.18.2023 PROJ.NO.:

SCHDULE





DRAINAGE RISER DIAGRAM - NTS



WATER SUPPLY RISER DIAGRAM - NTS

RE	VISIONS	
No.	Description	Date
1	PERMIT SET	07.28.2023

THE SHERWIN-WILLIAMS COMPANY
1600 CORPORATE CENTRAL DR.
BUILDING A
MCKINNEY, TEXAS 75069

1600 CORPORATE DRIVE MCKINNEY, TEXAS 75069

PLUMBING RISER DIAGRAMS

Drawen By: Z.H Scale: NTS

Date: 07.28.2023 PROJ.NO.:

P3.00

SHEET NO.