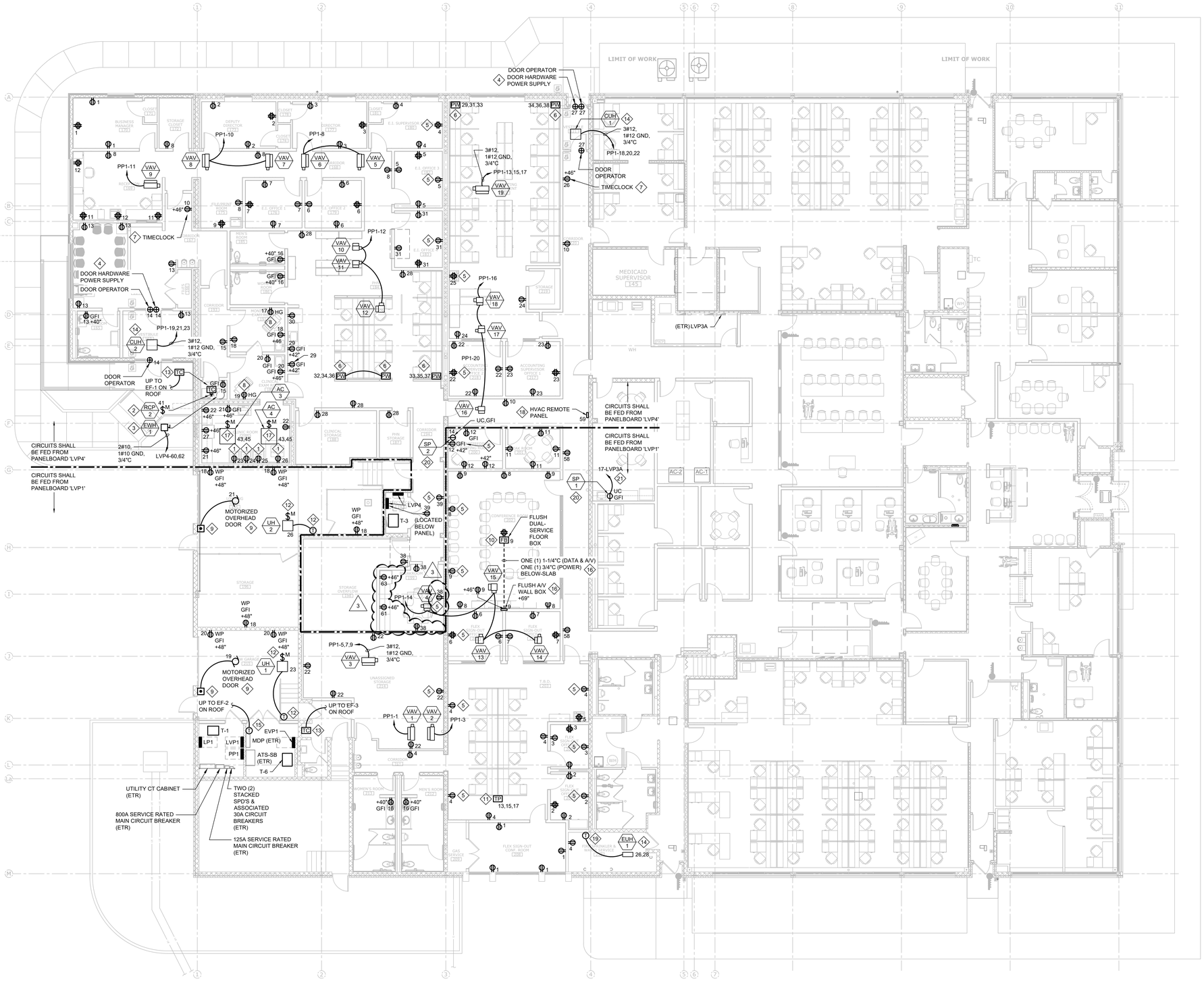

1 FIRST FLOOR - POWER - NEW WORK PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. FURNITURE SYSTEMS HAVE THREE DEDICATED CIRCUITS WITH SEPARATE NEUTRALS. ALL HOMERUNS SHALL HAVE DEDICATED NEUTRALS. WHERE LESS THAN THREE CIRCUITS ARE SHOWN FEEDING THE FURNITURE SYSTEM, WIRE THE FURNITURE SYSTEM AS FOLLOWS.
   1 HOMERUN CIRCUIT - WIRE TO ALL THREE CIRCUITS
   2 HOMERUN CIRCUIT - WIRE 1 TO A SINGLE CIRCUIT AND THE OTHER TO THE REMAINING TWO CIRCUITS

B. UTILIZE WIREMOLD 700 SERIES, OR APPROVED EQUAL, RACEWAY AND BACKBOXES FOR ALL INTERIOR SURFACE MOUNTING APPLICATIONS IN FINISHED SPACES. USE OF SURFACE MOUNTED CONDUIT IS PROHIBITED.

C. UNLESS NOTED OTHERWISE, PROVIDE 2#12, 1#12 GND IN 3/4"C FOR ALL BRANCH CIRCUITING AND HOMERUNS.

D. ALL VAV UNITS ARE BEING EQUIPPED WITH FACTORY MOUNTED DISCONNECTS.

NEW WORK KEY NOTES:

1. PROVIDE DEDICATED 20A, 120V BRANCH CIRCUIT FOR INDICATED REFRIGERATOR OR FREEZER RECEPTACLE.
2. PROVIDE POWER BRANCH CIRCUITING TO HOT WATER HEATER SYSTEM CIRCULATION PUMP AND ASSOCIATED TIME CLOCK AND AQUASTAT. PROVIDE MOTOR-STARTING SWITCH AHEAD OF PUMP, TIME CLOCK AND AQUASTAT.
3. PROVIDE 30A, NON-FUSED, DISCONNECT FOR SUSPENDED WATER HEATER.
4. PROVIDE 120V BRANCH CIRCUIT FOR DOOR HARDWARE POWER SUPPLY LOCATED ABOVE CEILING ON SECURED SIDE OF DOOR. POWER SUPPLY SHALL BE FURNISHED AND INSTALLED BY G.C., WIRED BY E.C.. REFER TO SECTION 281500 - INTEGRATED ACCESS CONTROL HARDWARE DEVICES FOR COMPLETE SYSTEM OPERATIONAL NARRATIVES FOR THE INTEGRATED ACCESS CONTROLLED OPENINGS.
5. PROVIDE 1-1/2" DEEP JUNCTION BOX FOR RECESSING IN 7/8" FURRING AND 5/8" GYPSUM BOARD.
6. COORDINATE EXACT LOCATION OF WHIP BOX WITH FINAL FURNITURE SYSTEM LAYOUT AND PROVIDE TERMINATION OF FURNITURE SYSTEM WHIP TO DESIGNATED CIRCUITS IN BOX.
7. PROVIDE RECESSED DUPLEX RECEPTACLE FOR WALL MOUNTED TIME CLOCK. TIME CLOCK (KRONOS #INTOUCH DX) SHALL BE PROVIDED BY OWNER. BACKPLATE PROVIDED WITH TIME CLOCK SHALL ALLOW TIME CLOCK TO BE MOUNTED OVER TOP OF THE RECESSED RECEPTACLE. RECEPTACLE SHALL BE MOUNTED APPROXIMATELY 46" A.F.F.; COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGHING-IN.
8. PROVIDE HOSPITAL GRADE RECEPTACLE AT LOCATION SHOWN. UTILIZE HOSPITAL GRADE MC CABLE FOR BRANCH CIRCUITING BACK TO PANELBOARD.
9. INSTALL MANUFACTURER FURNISHED PUSHBUTTON STATION FOR MOTORIZED OVERHEAD DOOR AT 48" A.F.F., PROVIDE 3/4"C WITH 3#12 CONTROL CONDUCTORS PLUS 1#12 GROUND CONDUCTOR BETWEEN PUSHBUTTON STATION AND OVERHEAD DOOR CONTROLLER.
10. PROVIDE FLUSH MOUNTED, DUAL-SERVICE, FLOOR BOX (WIREMOLD RATCHET-PRO RPNFB SERIES OR APPROVED EQUAL). BOX SHALL BE SIZED TO ACCOMMODATE QUANTITY OF WIRING DEVICES SHOWN ON THIS DRAWING AS WELL AS THE QUANTITY OF TELECOMMUNICATION OUTLETS SHOWN ON DRAWING ET-101. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CONCRETE SLAB-ON-GRADE FLOOR TO INSTALL FLOOR BOX AND ASSOCIATED BELOW-SLAB RACEWAYS. COORDINATE EXACT LOCATION WITH OWNER'S FURNITURE LAYOUT.
11. PROVIDE TELE-POWER POLE TO FEED POWER AND DATA CABLING DOWN TO FURNITURE SYSTEM. COORDINATE EXACT LOCATION WITH FINAL FURNITURE SYSTEM LAYOUT PRIOR TO ROUGHING-IN. REFER TO SPECIFICATION SECTION 260533.23 FOR ADDITIONAL REQUIREMENTS.
12. INSTALL LINE VOLTAGE T-STAT, FURNISHED BY MECHANICAL CONTRACTOR, TO CONTROL GAS FIRED UNIT HEATER. 120V EQUIPMENT BRANCH CIRCUITING SHALL BE ROUTED THROUGH T-STAT EN ROUTE TO UNIT HEATER. PROVIDE MOTOR-STARTING SWITCH AT UNIT HEATER.
13. INSTALL LINE VOLTAGE TIMECLOCK, FURNISHED BY MECHANICAL CONTRACTOR, TO CONTROL ROOFTOP EXHAUST FAN AND ASSOCIATED 120V MOTORIZED DAMPER. EQUIPMENT BRANCH CIRCUITING SHALL BE ROUTED THROUGH TIMECLOCK EN ROUTE TO EXHAUST FAN AND DAMPER.
14. EQUIPMENT PROVIDED WITH FACTORY MOUNTED DISCONNECT.
15. INSTALL LINE VOLTAGE T-STAT, FURNISHED BY MECHANICAL CONTRACTOR, TO CONTROL ROOFTOP EXHAUST FAN AND ASSOCIATED 120V MOTORIZED DAMPER. EQUIPMENT BRANCH CIRCUITING SHALL BE ROUTED THROUGH T-STAT EN ROUTE TO EXHAUST FAN AND DAMPER.
16. PROVIDE FLUSH MOUNTED, 2-GANG, A/V WALL BOX WITH DUPLEX RECEPTACLE AND A/V OUTLET MOUNTING PLATE (WIREMOLD EVOLUTION SERIES #EFSB2 WALL BOX OR APPROVED EQUAL). PROVIDE 1-1/4"C WITH PULLSTRING FROM A/V WALL BOX TO FLUSH MOUNTED FLOOR BOX FOR DATA CABLING AND FUTURE A/V CABLING.
17. PROVIDE ABOVE CEILING MOTOR-STARTING SWITCH FOR INDOOR AC UNIT.
18. PROVIDE 120V BRANCH CIRCUIT TO HVAC REMOTE PANEL. COORDINATE EXACT LOCATION OF HVAC REMOTE PANEL WITH MECHANICAL CONTRACTOR PRIOR TO ROUGHING-IN.
19. INSTALL LINE VOLTAGE T-STAT, FURNISHED BY MECHANICAL CONTRACTOR, TO CONTROL ELECTRIC UNIT HEATER. 208V EQUIPMENT BRANCH CIRCUITING SHALL BE ROUTED THROUGH T-STAT EN ROUTE TO UNIT HEATER.
20. PROVIDE SURFACE MOUNTED, UNDERCOUNTER, GFCI PROTECTED, SIMPLEX RECEPTACLE FOR INDICATED PLUG-IN SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR; RECEPTACLE MUST BE ACCESSIBLE ONCE PUMP IS INSTALLED.
21. UTILIZE SPARE 20A-1P CIRCUIT BREAKER IN EXISTING PANELBOARD.

KEY PLAN

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CONSULTING ENGINEER

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
10/16/24	1	EXISTING CONDITIONS PLUMBING REVISIONS			
11/05/24	2	ACCESS CONTROL REVISIONS			
11/22/24	3	TELECOM REVISIONS & NEW BREAKROOM			
	4				
	5				
	6				
	7				
	8				
	9				

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DESIGNER: DSU
DRAFTED : DSU
CHECKED : BRW
PROJ. NO : 21.1419
SCALE : AS NOTED
DATE : 6/21/2024

FIRST FLOOR - NEW WORK PLAN - POWER

MONTGOMERY COUNTY
PUBLIC HEALTH PHASE 2

CITY OF AMSTERDAM — MONTGOMERY COUNTY, NEW YORK

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EP-101
SHEET 69 OF 78
DWG. NO: 23-0172

PANELBOARD LP1

LOCATION: ELECTRIC ROOM | PH 3 | W 4
VOLTAGE (L-L) 480
VOLTAGE (L-N) 277
MOUNTING: SURFACE
FED FROM: MDP
FEED THRU TYPE NO
MAIN BUS AMP: 100A
MAIN TYPE: MLO
MAIN CIRCUIT BREAKER: --
FEEDER SIZE: REFER TO ONE-LINE DIAGRAM
SHORT CIRCUIT RATING: 14,000 AIC

NOTES:

DESCRIPTION	TRIP AMPS	POLES	CKT	PHASE A (AMPS)		PHASE B (AMPS)		PHASE C (AMPS)		CKT	POLES	TRIP AMPS	DESCRIPTION
LTG. - E.I. OFFICE AREA	20	1	1	2.8	2.6					2	1	20	LTG. - WAITING AREA & CLINIC RMS
LTG. - PHN OFFICE AREA	20	1	3			2.0	1.9			4	1	20	LTG. - ACCOUNTING OFFICE AREA
LTG. - CORRIDOR	20	1	5					1.1	1.5	6	1	20	LTG. - LOADING DOCK AREA
LTG. - STOR. AREA & EMPLOYEE R.R.	20	1	7	1.8	3.1					8	1	20	LTG. - FLEX OFFICE AREA & CONFERENCE RM
SPARE	20	1	9			0.0	0.0			10	1	20	SPARE
SPARE	20	1	11					0.0	0.0	12	1	20	SPARE
SPARE	20	1	13	0.0	0.0					14	1	20	SPARE
SPARE	20	1	15			0.0	0.0			16	1	20	SPARE
SPARE	20	1	17					0.0	0.0	18	1	20	SPARE
SPARE	20	1	19	0.0	0.0					20	1	20	SPARE
SPARE	20	1	21			0.0	0.0			22	1	20	SPARE
SPARE	20	1	23					0.0	0.0	24	1	20	SPARE
SPARE	20	1	25	0.0	0.0					26	1	20	SPARE
SPARE	20	1	27			0.0	0.0			28	1	20	SPARE
SPARE	20	1	29					0.0	0.0	30	1	20	SPARE
TOTAL LOAD PER PHASE (AMPS)				10.3		3.9		2.6					
TOTAL 3-PHASE LOAD (KVA)						4.7							
TOTAL 3-PHASE LOAD (AMPS)						5.6							
DEMAND FACTOR						100%							
DEMAND 3-PHASE LOAD (AMPS)						5.6							

PANELBOARD PP1

LOCATION: ELECTRIC ROOM | PH 3 | W 4
VOLTAGE (L-L) 480
VOLTAGE (L-N) 277
MOUNTING: SURFACE
FED FROM: MDP
FEED THRU TYPE NO
MAIN BUS AMP: 100A
MAIN TYPE: MLO
MAIN CIRCUIT BREAKER: --
FEEDER SIZE: REFER TO ONE-LINE DIAGRAM
SHORT CIRCUIT RATING: 14,000 AIC

NOTES:

DESCRIPTION	TRIP AMPS	POLES	CKT	PHASE A (AMPS)		PHASE B (AMPS)		PHASE C (AMPS)		CKT	POLES	TRIP AMPS	DESCRIPTION
VAV-01	20	1	1	7.2	2.2					2	3	15	(*) 'EHV-2A, 2B
VAV-02	20	1	3			10.8	2.2			4	--	--	
VAV-03	20	3	5					4.2	2.2	6	--	--	
	--	--	7	4.2	7.2					8	1	20	VAV-05,06
	--	--	9			4.2	7.2			10	1	20	VAV-07,08
VAV-09	20	1	11					7.2	0.8	12	1	20	VAV-10,11,12
VAV-19	20	3	13	4.8	1.0					14	1	20	VAV-4,13,14,15
	--	--	15			4.8	9.5			16	1	20	VAV-16,17,18
	--	--	17					4.8	15.0	18	3	20	CUH-1
CUH-2	20	3	19	15.0	15.0					20	--	--	
	--	--	21			15.0	15.0			22	--	--	
	--	--	23					15.0	14.0	24	3	20	ACC-3
SPACE			25	0.0	14.0					26	--	--	
SPACE			27			0.0	14.0			28	--	--	
SPACE			29					0.0	0.0	30			SPACE
TOTAL LOAD PER PHASE (AMPS)				70.7		82.8		63.2					
TOTAL 3-PHASE LOAD (KVA)						60.0							
TOTAL 3-PHASE LOAD (AMPS)						72.3							
DEMAND FACTOR						70%							
DEMAND 3-PHASE LOAD (AMPS)						50.6							

(*) EXISTING ACTIVE LOAD. LOAD INFORMATION BASED ON LISTED HORSEPOWER OF EQUIPMENT FROM ORIGINAL 1966 BUILDING DOCUMENTS.

PANELBOARD LVP4 (SEC. 1)

LOCATION: ELECTRICAL 197 | PH 3 | W 4
VOLTAGE (L-L) 208
VOLTAGE (L-N) 120
MOUNTING: SURFACE
FED FROM: T-4/MDP
FEED THRU TYPE YES
MAIN BUS AMP: 225A
MAIN TYPE: MCB
MAIN CIRCUIT BREAKER: 225A
FEEDER SIZE: REFER TO ONE-LINE DIAGRAM
SHORT CIRCUIT RATING: 10,000 AIC

NOTES:

DESCRIPTION	TRIP AMPS	POLES	CKT	PHASE A (AMPS)		PHASE B (AMPS)		PHASE C (AMPS)		CKT	POLES	TRIP AMPS	DESCRIPTION
REC. - BUSNIESS MANAGER 170	20	1	1	6.0	6.0					2	1	20	REC. - DEPUTY DIRECTOR 173
REC. - DIRECTOR 177	20	1	3			6.0	6.0			4	1	20	REC. - E.I. SUPERVISOR OFFICE 180
REC. - E.I. OFFICE 182	20	1	5					7.5	7.5	6	1	20	REC. - E.I. OFFICE 179
REC. - E.I. OFFICE 176	20	1	7	7.5	6.0					8	1	20	CORRIDOR REC. - RM. 168,169,175
COPIER REC. - FILE/PRINT RM 175	20	1	9			6.0	1.5			10	1	20	TIME CLOCK REC. - CORRIDOR 167
REC. - RECEPTION 169	20	1	11					6.0	6.0	12	1	20	REC. - RECEPTION 169
REC. - WAIT. 164, RESTROOM 165, VEST. 163	20	1	13	9.0	6.0					14	1	20	ADA DOOR OPERATORS - VEST. 163
REC. - CORRIDOR 193, JAN. CLOSET 192	20	1	15			3.0	3.0			16	1	20	GFI REC. - MEN'S RM 185, WOMEN'S 186
EXAM CHAIR REC. - MON. EXAM RM 191	20	1	17					6.0	3.0	18	1	20	REC. - MON. EXAM RM 191
EXAM CHAIR REC. - CLINICAL EXAM RM 189	20	1	19	6.0	3.0					20	1	20	REC. - CLINICAL EXAM RM 189
REC. - CLINIC RM 190	20	1	21			3.0	3.0			22	1	20	REC. - CLINIC RM 190
RABIES REFRIG. REC. - CLINIC RM 190	20	1	23					2.0	2.0	24	1	20	PHARM VACCINE REFRIG. REC. - CLINIC RM 190
VACCINE MED. REFRIG. REC. - CLINIC RM 190	20	1	25	2.0	6.0					26	1	20	ULT FREEZER REC. - CLINIC RM 190
TALL REFRIG. REC. - CLINIC RM 190	20	1	27			2.0	7.5			28	1	20	REC. - PHN 184, CLIN. STOR. 188, PHN STOR. 187
GFI REC. - PHN 184	20	1	29					3.0	1.5	30	1	20	REFRIG. REC. - PHN 184
REC. - E.I. OFFICE 183	20	1	31	7.5	6.0					32	3	20	WALL FURNITURE FEED - PHN 184
WALL FURNITURE FEED - PHN 184	20	3	33			3.0	6.0			34	--	--	
	--	--	35					3.0	6.0	36	--	--	
	--	--	37	3.0	6.0					38	20	1	REC. - STOR. RM 198, BREAK ROOM 199
REC. - ELECTRICAL 197, CORRIDOR 194	20	1	39			1.5	1.5			40	20	1	GFI REC. - ROOFTOP COND. UNIT (ACCU-1)
RCP-2	20	1	41					0.5	0.0	42	20	1	SPARE
(*) TOTAL LOAD PER PHASE (AMPS)				148.9		84.1		98.0					
TOTAL 3-PHASE LOAD (KVA)						39.7							
TOTAL 3-PHASE LOAD (AMPS)						110.4							
DEMAND FACTOR						42%							
DEMAND 3-PHASE LOAD (AMPS)						46.1							

(*) TOTAL LOAD PER PHASE (AMPS) INDICATED INCLUDES TOTAL LOAD PER PHASE (AMPS) OF PANELBOARD LVP4 (SEC. 2)

3

PANELBOARD LVP4 (SEC. 2)

LOCATION: ELECTRICAL 197 | PH 3 | W 4
VOLTAGE (L-L) 208
VOLTAGE (L-N) 120
MOUNTING: SURFACE
FED FROM: LVP4 (SEC. 1)
FEED THRU TYPE NO
MAIN BUS AMP: 225A
MAIN TYPE: MLO
MAIN CIRCUIT BREAKER: --
FEEDER SIZE: REFER TO ONE-LINE DIAGRAM
SHORT CIRCUIT RATING: 10,000 AIC

NOTES:

DESCRIPTION	TRIP AMPS	POLES	CKT	PHASE A (AMPS)		PHASE B (AMPS)		PHASE C (AMPS)		CKT	POLES	TRIP AMPS	DESCRIPTION
AC-3,4	15	2	43	1.1	9.8					44	1	20	EF-1
	--	--	45			1.1	6.0			46	3	20	WALL FURNITURE FEED - ACCOUNTING DEPT. 216 - NE CORNER
WALL FURNITURE FEED - ACCOUNTING DEPT. 216 - NW CORNER	20	3	47					6.0	6.0	48	--	--	
	--	--	49	6.0	6.0					50	--	--	
	--	--	51			6.0	1.5			52	1	20	TIME CLOCK REC. - CORRIDOR 220
ADA DOOR OPERATORS - VEST. 221	20	1	53					6.0	3.0	54	1	20	REC. - ACCOUNTING DEPT. 216
COPIER REC. - ACCOUNTING DEPT. 216	20	1	55	6.0	6.0					56	1	20	REC. - ACCOUNT. SUPERV. OFFICE 218
REC. - ACCOUNT. SUPERV. OFFICE 217	20	1	57			7.5	3.0			58	1	20	REC. - CORRIDOR 220
HVAC REMOTE PANEL	20	1	59					1.0	22.0	60	2	30	EWH-1
ABOVE COUNTER REC. - BREAK ROOM 199	20	1	61	12.0	22.0					62	--	--	
REFRIGERATOR REC. - BREAK ROOM 199	20	1	63			6.0	0.0			64	1	20	SPARE
SPARE	20	1	65					0.0	0.0	66	1	20	SPARE
SPARE	20	1	67	0.0	0.0					68	1	20	SPARE
SPARE	20	1	69			0.0	0.0			70	1	20	SPARE
SPARE	20	1	71					0.0	0.0	72	1	20	SPARE
SPARE	20	1	73	0.0	0.0					74	1	20	SPARE
SPARE	20	1	75			0.0	0.0			76	1	20	SPARE
SPARE	20	1	77					0.0	0.0	78	1	20	SPARE
SPARE	20	1	79	0.0	0.0					80	1	20	SPARE
SPARE	20	1	81			0.0	0.0			82	1	20	SPARE
SPARE	20	1	83					0.0	0.0	84	1	20	SPARE
TOTAL LOAD PER PHASE (AMPS)				68.9		31.1		44.0					
TOTAL 3-PHASE LOAD (KVA)						17.3							
TOTAL 3-PHASE LOAD (AMPS)						48.0							
DEMAND FACTOR						88%							
DEMAND 3-PHASE LOAD (AMPS)						42.4							

PANELBOARD LVP1

LOCATION: ELECTRIC ROOM | PH 3 | W 4
VOLTAGE (L-L) 208
VOLTAGE (L-N) 120
MOUNTING: SURFACE
FED FROM: T-1/LP1
FEED THRU TYPE NO
MAIN BUS AMP: 150A
MAIN TYPE: MCB
MAIN CIRCUIT BREAKER: 150A
FEEDER SIZE: REFER TO ONE-LINE DIAGRAM
SHORT CIRCUIT RATING: 10,000 AIC

NOTES:

DESCRIPTION	TRIP AMPS	POLES	CKT	PHASE A (AMPS)		PHASE B (AMPS)		PHASE C (AMPS)		CKT	POLES	TRIP AMPS	DESCRIPTION
REC. - FLEX SIGN-OUT CONF. RM 208	20	1	1	6.0	7.5					2	1	20	REC. - FLEX SIGN-OUT OFFICE 207
REC. - FLEX SIGN-OUT OFFICE 206	20	1	3			7.5	7.5			4	1	20	REC. - TBD RM 203, CORRIDOR 211
COPIER REC. - TBD RM 203	20	1	5					6.0	6.0	6	1	20	REC. - FLEX SIGN-OUT OFFICE 205
REC. - FLEX SIGN-OUT OFFICE 204	20	1	7	6.0	6.0					8	1	20	REC. - CONFERENCE RM 202
REC. - CONFERENCE RM 202	20	1	9			9.0	3.0			10	1	20	REC. - CORRIDOR 220
REC. - BREAK RM 201	20	1	11					6.0	6.0	12	1	20	REC. - BREASTFEEDING/PUMPING RM 200
TELE/POWER POLE FURNITURE FEED - TBD RM. 203	20	3	13	8.0	4.5					14	1	20	SP-2
	--	--	15			8.0	3.0			16	1	20	GFI REC. - WOMEN'S 213, MEN'S 212
	--	--	17					8.0	6.0	18	1	20	REC. - LOADING DOCK 195
OVERHEAD DOOR - DPW GARAGE 215	20	1	19	3.0	3.0					20	1	20	REC. - DPW GARAGE 215
OVERHEAD DOOR - LOADING DOCK 195	20	1	21			3.0	7.5			22	1	20	REC. - UNASSIGNED STORAGE 214
UH-1	20	1	23					5.1	5.1	24	1	20	UH-2
(*) GENERATOR LOAD CENTER	40	2	25	24.0	14.5					26	2	20	EUH-1
	--	--	27			24.0	14.5			28	--	--	
EF-2	20	1	29					1.0	1.0	30	1	20	EF-3
SPARE	20	1	31	0.0	0.0					32	1	20	SPARE
SPARE	20	1	33			0.0	0.0			34	1	20	SPARE
SPARE	20	1	35					0.0	0.0	36	1	20	SPARE
SPARE	20	1	37	0.0	0.0					38	1	20	SPARE
SPARE	20	1	39			0.0	0.0			40	1	20	SPARE
SPARE	20	1	41					0.0	0.0	42	1	20	SPARE
TOTAL LOAD PER PHASE (AMPS)				82.5		87.0		50.1					
TOTAL 3-PHASE LOAD (KVA)						26.4							
TOTAL 3-PHASE LOAD (AMPS)						73.2							
DEMAND FACTOR						85%							
DEMAND 3-PHASE LOAD (AMPS)						62.6							

(*) EXISTING ACTIVE LOAD. LOAD INFORMATION BASED ON SHOP DRAWINGS FROM PREVIOUS GENERATOR INSTALLATION PROJECT.

PANELBOARD EVP1

LOCATION: ELECTRIC ROOM | PH 3 | W 4
VOLTAGE (L-L) 208
VOLTAGE (L-N) 120
MOUNTING: SURFACE
FED FROM: T-6/125A ENCLOSED C.B.
FEED THRU TYPE NO
MAIN BUS AMP: 225A
MAIN TYPE: MCB
MAIN CIRCUIT BREAKER: 225A
FEEDER SIZE: REFER TO ONE-LINE DIAGRAM
SHORT CIRCUIT RATING: 10,000 AIC

NOTES:

DESCRIPTION	TRIP AMPS	POLES	CKT	PHASE A (AMPS)		PHASE B (AMPS)		PHASE C (AMPS)		CKT	POLES	TRIP AMPS	DESCRIPTION
EV CHARGER 1A	40	2	1	30.0	30.0					2	40	2	EV CHARGER 1B
	--	--	3			30.0	30.0			4	--	--	
EV CHARGER 2A	40	2	5					30.0	30.0	6	40	2	EV CHARGER 2B
	--	--	7	30.0	30.0					8	--	--	
EV CHARGER (FUTURE)	40	2	9			0.0	0.0			10	40	2	EV CHARGER (FUTURE)
	--	--	11					0.0	0.0	12	--	--	
EV CHARGER (FUTURE)	40	2	13	0.0	0.0					14	40	2	EV CHARGER (FUTURE)
	--	--	15			0.0	0.0			16	--	--	
SPACE			17					0.0	0.0	18			SPACE
SPACE			19	0.0	0.0					20			SPACE
SPACE			21			0.0	0.0			22			SPACE
SPACE			23					0.0	0.0	24			SPACE
SPACE			25	0.0	0.0					26			SPACE
SPACE			27			0.0	0.0			28			SPACE
SPACE			29					0.0	0.0	30			SPACE
TOTAL LOAD PER PHASE (AMPS)				120.0		60.0		60.0					
TOTAL 3-PHASE LOAD (KVA)						28.8							
TOTAL 3-PHASE LOAD (AMPS)						80.0							
DEMAND FACTOR						100%							
DEMAND 3-PHASE LOAD (AMPS)						80.0							

KEY PLAN

ERDMAN ANTHONY
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LATHAM, NY 12110
PH: 518.783.1205
www.erdmananthony.com
CONSULTING ENGINEER

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
10/16/24	1	EXISTING CONDITIONS PLUMBING REVISIONS			
11/05/24	2	ACCESS CONTROL REVISIONS			
11/22/24	3	TELECOM REVISIONS & NEW BREAKROOM			
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SCALE : AS NOTED
DATE : 6/21/2024

PANELBOARD SCHEDULES

MONTGOMERY COUNTY PUBLIC HEALTH PHASE 2

CITY OF AMSTERDAM — MONTGOMERY COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.
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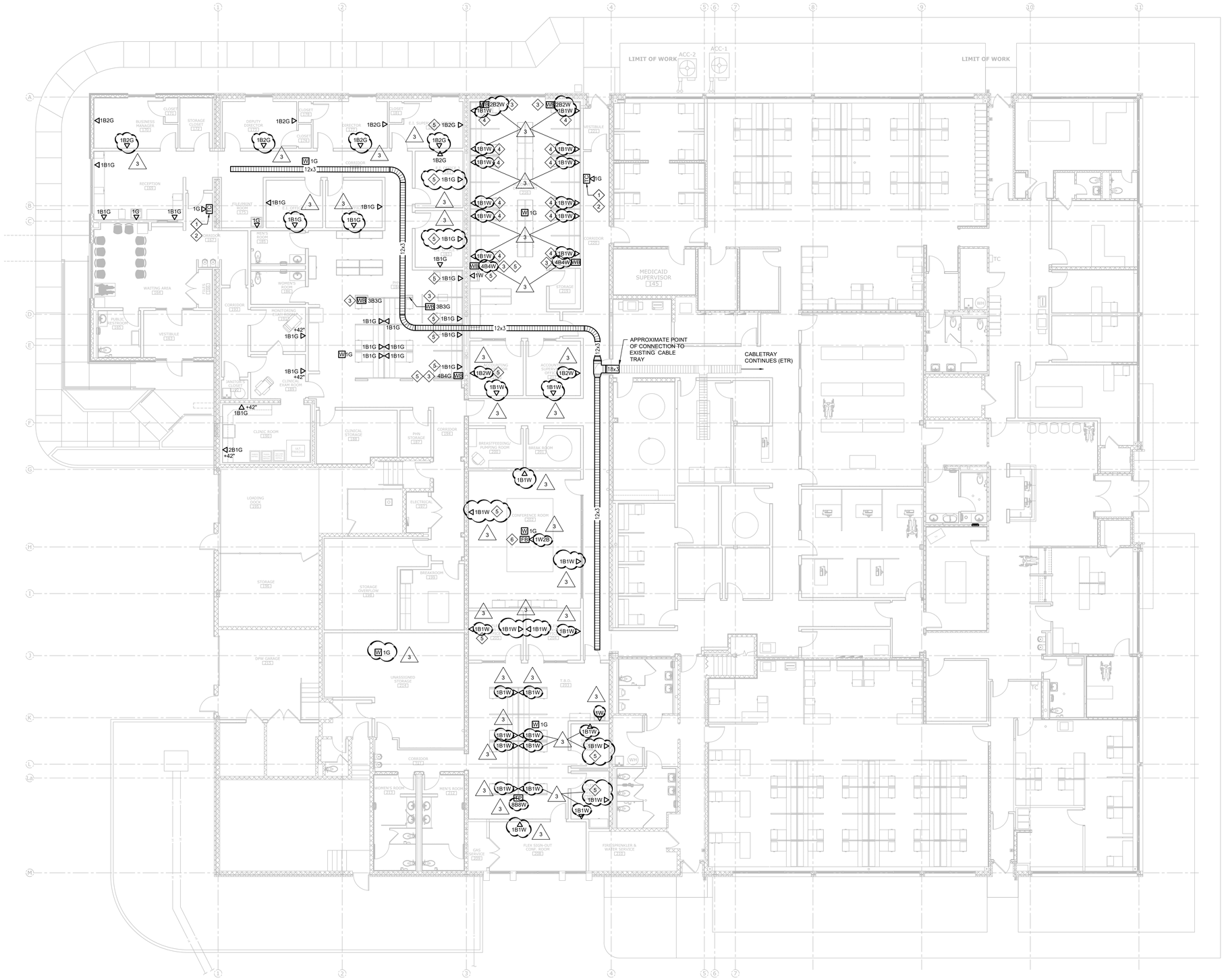
EP-701
SHEET 72 OF 78
DWG. NO: 23-0172



1 FIRST FLOOR - TELECOMMUNICATIONS - NEW WORK PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. PROVIDE CONCEALED 1" CONDUIT FROM EACH RECESSED TELECOMMUNICATION OUTLET JUNCTION BOX AND STUB-OUT ABOVE CEILING TO PROVIDE PATHWAY FOR OUTLET TELECOMMUNICATION (TELECOM) CABLING; CABLING SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. UTILIZE J-HOOKS OR OTHER APPROVED SUPPORTING METHODS TO CONTINUE ROUTING CABLING TO BASKET TRAY.

B. BASKET TRAY (PROVIDED BY E.C.) SHALL BE ROUTED A MINIMUM OF 4" ABOVE SUSPENDED CEILING AND ROUTED BELOW ALL PIPING AND DUCTWORK. MAINTAIN A MINIMUM CLEARANCE OF 6" BETWEEN TOP OF BASKET TRAY AND ANY PIPING OR DUCTWORK CONTRACTOR SHALL MAKE OFFSETS AS REQUIRED TO ROUTE AROUND EXISTING SPRINKLER PIPING.

C. REFER TO DRAWING E-401 FOR TELECOMMUNICATION OUTLET AND BASKET TYPE CABLE TRAY DETAILS.

NEW WORK KEY NOTES:

1. PROVIDE ONE (1) CAT 6 ABOVE CEILING DATA OUTLET FOR TIME CLOCK (COUNTY NETWORK - GREEN).
2. PROVIDE CONCEALED 3/4" CONDUIT FROM RECESSED JUNCTION BOX AND STUB-OUT ABOVE CEILING TO PROVIDE PATHWAY FOR TIME CLOCK PATCH CABLE; PATCH CABLE SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE 3-FEET OF SLACK ON EACH END OF CABLE
3. PROVIDE WALL BOX WITH GYP. BOARD WALL PLATE AND GROMMET TO FEED CABLING TO FURNITURE SYSTEM.
4. ROUTE TELECOM CABLING IN FURNITURE SYSTEM RACEWAY AND PROVIDE TELECOMMUNICATIONS OUTLET AT LOCATION NOTED.
5. DUE TO SHALLOW WALL DEPTH, UTILIZE TWO (2) 3/4-INCH CONDUITS, IN LIEU OF ONE (1) 1-INCH CONDUIT, FOR ROUTING OF DATA CABLING DOWN TO DATA OUTLET BACKBOX. PROVIDE CARVING OUT OF EXISTING BLOCK WALL TO ALLOW DATA OUTLET BACKBOX TO BE RECESSED IN WALL WITH A FLUSH FACEPLATE ON NEW WALL.
6. PROVIDE QUANTITY OF DATA OUTLET INDICATED IN FLUSH MOUNTED, DUAL-SERVICE, FLOOR BOX. REFER TO DRAWING EP-101 FOR ADDITIONAL FLOOR BOX REQUIREMENTS.

LEGEND

#B #G #W	DATA OUTLET - WALL OR RACEWAY MOUNTED - FLUSH. SUBSCRIPTS INDICATE THE FOLLOWING: # - QUANTITY OF CAT 6 DATA JACKS; B - BLACK JACK (PHONE DROPS); G - GREEN JACK (COUNTY NETWORK); W - WHITE JACK (STATE NETWORK)
3 TP #B #G #W	TELE-POWER POLE. SUBSCRIPTS INDICATE QUANTITY OF PHONE DROPS (BLACK), COUNTY NETWORK (GREEN), OR STATE NETWORK (WHITE) DATA CABLES BEING ROUTED DOWN THROUGH POLE TO FURNITURE SYSTEM.
WB #B #G #W	WALL BOX. SUBSCRIPTS INDICATE QUANTITY OF PHONE DROPS (BLACK), COUNTY NETWORK (GREEN), OR STATE NETWORK (WHITE) DATA CABLES BEING ROUTED THROUGH BOX TO FURNITURE SYSTEM.
W #G	WIRELESS ACCESS POINT. SUBSCRIPTS INDICATE QUANTITY OF COUNTY NETWORK (GREEN) DATA JACKS SHALL BE PROVIDED IN ABOVE CEILING DATA OUTLET.

NORTH

KEY PLAN

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FIRST FLOOR - NEW WORK PLAN - TELECOM

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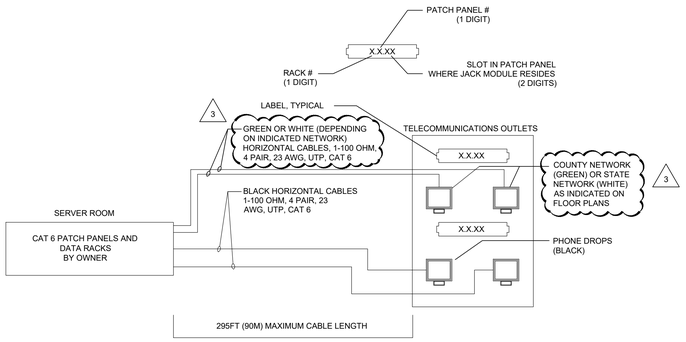
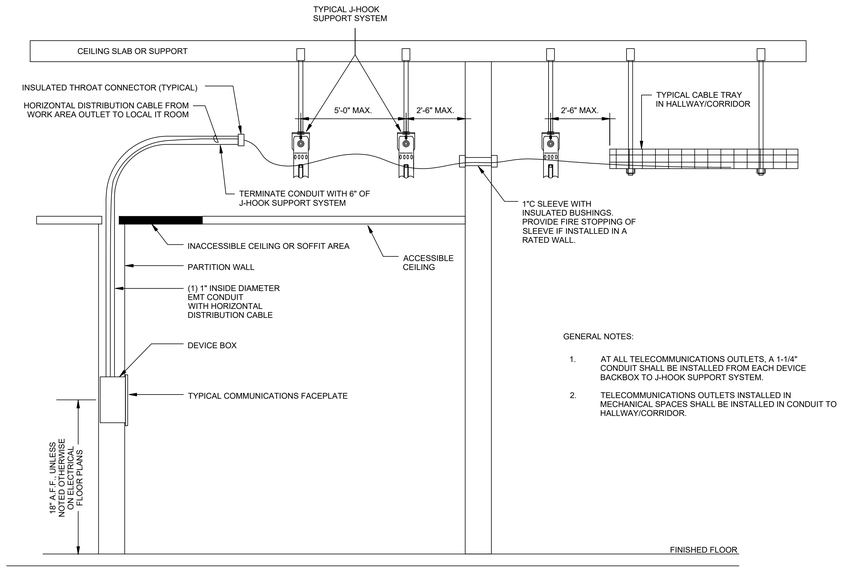
ET-101
SHEET 74 OF 78
DWG. NO: 23-0172



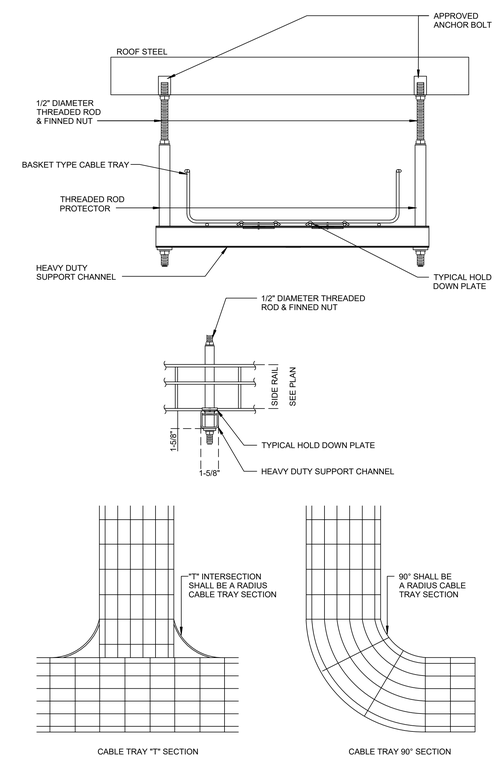
3 TYPICAL TELECOMMUNICATIONS OUTLET WIRING
SCALE: N.T.S.



GENERAL NOTES:

1. AT ALL TELECOMMUNICATIONS OUTLETS, A 1-1/4" CONDUIT SHALL BE INSTALLED FROM EACH DEVICE BACKBOX TO J-HOOK SUPPORT SYSTEM.
2. TELECOMMUNICATIONS OUTLETS INSTALLED IN MECHANICAL SPACES SHALL BE INSTALLED IN CONDUIT TO HALLWAY/CORRIDOR.

1 TYPICAL WALL DEVICE WITH J-HOOKS & CABLE TRAY DETAIL
SCALE: N.T.S.



2 TYPICAL BASKET TYPE CABLE TRAY SUPPORT SYSTEM DETAIL
SCALE: N.T.S.

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TELECOM DETAILS

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