ELECTRICAL LEGENDS

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - WALL MOUNTED
	SINGLE RECEPTACLE - WALL MOUNTED
	SINGLE "GFCI" RECEPTACLE - WALL MOUNTED
	DUPLEX RECEPTACLE - CEILING MOUNTED
	DUPLEX RECEPTACLE - WALL MOUNTED - COUNTER HEIGHT
	SWITCHED OUTLET
USB	USB TYPE COMBO OUTLET - WALL MOUNTED
	QUAD RECEPTACLE - WALL MOUNTED
	DUPLEX "GFCI" RECEPTACLE - WALL MOUNTED
	DUPLEX "GCFI" RECEPTACLE - WALL MOUNTED - COUNTER HEIGHT
	DUPLEX "GCFI" RECEPTACLE - WALL MOUNTED
	SPECIAL OUTLET - WALL MOUNTED
	DUPLEX RECEPTACLE - IN FLUSH FLOOR BOX
J	JUNCTION BOX
J	JUNCTION BOX - WALL MOUNTED
$	WALL SWITCH - SINGLE POLE - SINGLE THROW
$ 3	WALL SWITCH - 3 WAY- SINGLE POLE - SINGLE THROW
$ 4	WALL SWITCH - 4 WAY- SINGLE POLE - SINGLE THROW
$ OS	WALL OCCUPANCY SENSOR - MOTION & INFRARED
$ K	WALL MOUNTED KEYED SWITCH
$ zone	WALL MOUNTED ZONED SWITCH
OS	OCCUPANCY SENSOR - CEILING MOUNTED
D	DIMMER SWITCH - WALL MOUNTED
D_{OS}	DIMMER SWITCH - WALL OCCUPANCY SENSOR - MOTION & INFRARED
D_3	DIMMER SWITCH - 3 WAY - WALL MOUNTED
TC	TIME CLOCK

CODE COMPLIANCE

THESE PLANS WERE PREPARED AND SHALL COMPLY WITH THE BUILDING

INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020), (2022)

INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION

INTERNATIONAL FIRE CODE, 2018 EDITION

NATIONAL ELECTRICAL CODE, 2023 EDITION, WITH GEORGIA AMENDMENTS (2021)

ABBREVIATIONS

ACT	ABOVE COUNTERTOP OR BACKSPLASH
AC	ALTERNATING CURRENT
AL	ALUMINUM
AMP	AMPERES
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BD	BOARD
BLDG	BUILDING
CAB	CABINET
CAP	CAPACITY
CATV	CABLE TELEVISION
CBB	CABLE TELEVISION BACKBOARD
CKT	CIRCUIT
CLG	CEILING
CB	CIRCUIT BREAKER
CL	CENTER LINE
COL	COLUMN
COND/C	CONDUIT
CONN	CONNECTION
CONT	CONTINUATION
C&P	CORD AND PLUG
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DET	DETAIL
DF/EDF	ELECTRICAL DRINKING FOUNTAIN
DN	DOWN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRIC
EQ	EQUIPMENT
EX	EXISTING
FA	FIRE ALARM
FSD	FIRE SMOKE DAMPER
FACP	FIRE ALARM CONTROL PANEL
FIX	FIXTURE
FL	FLOOR
FU	FUSED
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
H.O.A.	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KAIC	KILO-AMPERE INTERRUPTING CAPACITY
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MISC	MISCELLANEOUS
MTR	MOTOR
MTD	MOUNTED
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
M.O.D.	MOTOR OPERATED DAMPER
MRS	MOTOR RATED SWITCH
NEC	NATIONAL ELECTRICAL CODE
NES	NASHVILLE ELECTRIC SERVICE
NF	NONFUSED
NL	NIGHT LIGHT
NO.	NUMBER
NTS	NOT TO SCALE
P.I.V.	POST INDICATOR VALVE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RTU	ROOF TOP UNIT
SH	SHEET
SW	SWITCH
TR	TRANSFORMER
TBB	TELEPHONE BACKBOARD
TELE	TELEPHONE
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

EMERGENCY RESPONDER RADIO COVERAGE

AS A DEDUCTIVE ALTERNATE, PROVIDE A BOOSTER SYSTEM. PER SPECIFICATION 285000, FOR THE ENTIRE BUILDING TO BOOST THE RADIO COVERAGE/STRENGTH ADEQUATE FOR THE PUBLIC SAFETY COMMUNICATIONS SYSTEMS OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. PROVIDE CONDUIT INFRASTRUCTURE, UNDER BASE BID. DURING CONSTRUCTION SUCH THAT NO CONDUIT WILL HAVE TO BE ADDED AT END OF PROJECT IF BUILDING REQUIRES BOOSTER SYSTEM. AS PART OF BASE BID, PROVIDE TESTING FOR EMERGENCY RESPONDER SIGNAL AT TIME OF SHEET ROOKING, PER SPECIFICATION SECTION 285500.

SHEET INDEX - ELECTRICAL

LIGHTING FIXTURE SCHEDULE

Type Mark	Description	Wattage	Manufacturer
A1	2x4 RECESSED TROFFER	80 W	TBD
A1E	2x4 RECESSED TROFFER W/ BATTERY BACKUP	80 W	TBD
B2	2x2 RECESSED TROFFER	36 W	METALUX
B2E	2x2 RECESSED TROFFER W/ BATTERY BACKUP	36 W	METALUX
D6	6" LED DOWNLIGHT	15 W	HALO
D6E	6" LED DOWNLIGHT W/ BATTERY BACKUP	15 W	
EM	EMERGENCY BUGEYE	10 W	TBD
L1	FOCUS WALL WASH LED	67 W	FOCAL POINT
L8	8'x4" LINEAR RECESSED LED	41 W	METALUX
L8E	8'x4" LINEAR RECESSED LED W/ BATTERY BACKUP	41 W	METALUX
L11	4' INDUSTRIAL LED STRIP	40 W	METALUX
L11E	4' INDUSTRIAL LED STRIP W/ BATTERY BACKUP	40 W	METALUX
P1	6'x4" GLOW RING PENDANT	175 W	OCL
P2	8'x4" GLOW RING PENDANT	205 W	OCL
X	LED DOUBLE FACE EXIT LIGHT GREEN LETTERING	5 W	LITHONIA
X1	LED EXIT SIGN / EMERGENCY LIGHT COMBO	10 W	TBD

ELECTRICAL GENERAL NOTES

1. ALL WORK THIS DIVISION SHALL COMPLY WITH ALL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, AND THE REQUIREMENTS OF 2014 NATIONAL ELECTRICAL CODE.
2. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF HIS/HER WORK HE/SHE SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.
3. ALL SYSTEMS, EQUIPMENT, COMPONENTS, WORK, ETC. PROVIDED UNDER THIS DIVISION SHALL BE COVERED BY A MINIMUM ONE YEAR GUARANTEE STARTING AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS IN THE WORK, SYSTEMS, EQUIPMENT, OR COMPONENTS FOUND DURING THIS YEAR SHALL BE CORRECTED AT NO CHARGE. THE GUARANTEE SHALL INCLUDE PROVIDING ALL NECESSARY CUTTING, PATCHWORK, REPAINTING, ETC. TO MAKE THE WORK COMPLETE AND NEW.
4. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" INSULATION AND THE MINIMUM WIRE SIZE SHALL BE #14 A.W.G. FOR 15A WHERE USED IN RESIDENTIAL/LIVING UNITS AND #12 A.W.G FOR 20A CIRCUITS UNLESS NOTED OTHERWISE, OR NOT ALLOWED BY LOCAL JURISDICTION HAVING AUTHORITY.
5. ALL WORK MUST BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED PRINCIPALS OF FIRST CLASS WORKMANSHIP.
6. ALL PENETRATIONS THRU RATED WALLS, FLOORS AND CEILINGS SHALL BE FIRE STOPPED PER N.E.C. 300.21. ALSO SEE SHEET E0.2. FIRE STOPPING SHALL MATCH UL RATING OF WALL, FLOOR, OR CEILING PENETRATED.
7. ALL SWITCHES FOR FANS, LIGHTS, ETC. WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.
8. COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH EQUIPMENT.
9. ALL OUTLETS AND SWITCHES ARE TO BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.
10. LABEL AND IDENTIFY ALL JUNCTION BOXES, WIREWAYS AND MAJOR SWITCHES AT THE TIME OF INSTALLATION. PROVIDE PERMANENT NAMEPLATES/LABELS AS SPECIFIED PRIOR TO FINAL INSPECTION.
11. VERIFY LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGH-IN.
12. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS. WIRING SHALL BE INSTALLED AT DEPTHS BELOW FINISHED GRADE (BELOW SLAB AND SUB-BASE LEVEL) AS PER NEC ARTICLE 300.50.
13. MINIMUM HOMERUN CONDUIT SIZE SHALL BE:
    A. ABOVE GRADE: 3/4"
    B. BELOW GRADE: 3/4"
14. COMMON NEUTRAL MAY BE USED AS PERMITTED BY NEC FOR MULITWIRE BRANCH CIRCUITS. SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS CONNECTED TO GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICES, UNLESS OTHERWISE NOTED. SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL ARC FAULT CIRCUIT INTERRUPTER CIRCUITS.
15. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN INSULATED GROUND WIRE, SIZED PER NEC TABLE 250.122 OR AS SHOWN, CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANEL BOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE, UNLESS OTHERWISE NOTED.
16. IN CASES WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATION, OR BETWEEN DIFFERENT TRADES, AS WELL AS CASES OF ANY OMISSION OF INFORMATION, NOTIFY THE ARCHITECT AND PROCURE RESOLUTION OF THE CONFLICT OR OMISSION BEFORE PROCEEDING WITH THE INSTALLATION.
17. ALL 15A AND/OR 20A BRANCH RECEPTACLE CIRCUITS FOR 120V, CIRCUITS LONGER THAN 70'-0" SHALL BE MINIMUM #10 AWG, LONGER THAN 150' SHALL BE #8 AWG.
18. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF ELECTRICAL WORK, DATA PRESENTED ON THE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITION IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN.
19. COORDINATE WITH OTHER TRADES SO THAT INSTALLATION OF ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CHECK CONDUIT, FIXTURE AND OTHER EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICT WITH THE PIPING DUCT WORK, STEEL PIPING, BEAM, OR OTHER OBSTRUCTIONS.
20. THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE TO THE ARCHITECT/ENGINEER THAT THERE HAS BEEN A FACE-TO-FACE MEETING WITH THE MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL SUBCONTRACTORS TO COORDINATE THEIR WORK. THIS MUST BE DONE PRIOR TO ORDERING ANY EQUIPMENT AND SHALL SERVE TO MATCH THE VOLTAGE, PHASE, AMPS, MCA, AND MOCP OF THE EQUIPMENT WITH THE DESIGNED ELECTRICAL CHARACTERISTICS. AFTER THIS MEETING HAS BEEN HELD THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE (IN WRITING) TO THE A/E THAT THIS HAS BEEN DONE AND THERE ARE NO DISCREPANCIES. FAILURE TO MEET DOES NOT ENTITLE CONTRACTOR TO A CHANGE ORDER FOR INCOMPATIBLE EQUIPMENT AND SERVICE CHARACTERISTICS.
21. PROVIDE UNSWITCHED HOT WIRE TO ALL EMERGENCY/EXIT LIGHTING.
22. PROVIDE SEALING OF ALL OUTLET BOXES PER LOCAL FIRE CODE.
23. COMBUSTIBLE MATERIALS ARE NOT ALLOWED WITHIN AREAS WHERE PLENUM AIR SYSTEMS ARE BEING USED.
24. THE CONTRACTOR SHALL PROVIDE AND INSTALL WIRING AND CIRCUIT ALL EQUIPMENT, MOTORS, AND OTHER ITEMS NOT EXPLICITLY SHOWN, BUT INDICATED. IN CONTRACT DOCUMENTS OR IN SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SAID ITEMS BETWEEN ALL TRADES.
25. NO PIPING, DUCT, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE INSTALLED ABOVE ANY ELECTRICAL PANELBOARD, LOAD CENTER, MOTOR CONTROL CENTER, OR SWITCHBOARD. PER NEC ARTICLE 110.26 (a) (3).
26. THERE SHALL BE NO BACK TO BACK RECEPTACLE WITHIN FIRE RATED WALLS. PROVIDE MINIMUM HORIZONTAL SPACE BETWEEN OUTLETS AT OPPOSITE SIDES OF A FIRE RATED WALL.
27. GFCI RECEPTACLE WITH IN-USE WEATHERPROOF COVER PLATE. IN-USE WEATHERPROOF COVER PLATE SHALL BE: STEEL CITY "WTG100-CV-L" OR APPROVED EQUAL.
28. FIRE ALARM SYSTEM PROVIDED BY ELECTRICAL SUBCONTRACTOR PER NFPA 101, NFPA 72 AND IBC.
29. BELOW GRADE RACEWAY INSTALLATIONS - DIRECT BURIAL CONDUIT SHALL BE INSTALLED AT CODE REQUIRED BURIAL DEPTHS
30. RACEWAY INSTALLATIONS WITHIN CONCRETE - CONDUIT SHALL BE RUN FOLLOWING THE MOST DIRECT ROUTE BETWEEN POINTS. CONDUIT SHALL NOT BE INSTALLED WITHIN CONCRETE WHERE THE OUTSIDE DIAMETER IS LARGER THAN 1/3 OF THE SLAB THICKNESS.
31. IN BUILDINGS WITH MULTIPLE SERVICES, PROVIDE A PLAQUE AT EACH ELECTRICAL SERVICE DENOTING THE LOCATION OF ALL OTHER SERVICES WITHIN THE BUILDING.
32. TYPE NM CABLE IS NOT ALLOWED EXPOSED IN HVAC CLOSETS. PROVIDE TYPE MC CABLE OR ROUTE TYPE NM CABLE IN FLEXIBLE METALLIC CONDUIT SO THAT NM CABLE IS NOT EXPOSED IN CLOSET.
33. ALL EXTERIOR ENTRY DOORS SHALL BE EQUIPPED WITH ELECTRIC STRIKE PLATES AND EITHER CARD OR PROXIMITY READERS. COORDINATE LOCATION AND REQUIREMENTS WITH LOW VOLTAGE INSTALLER PRIOR TO BID.
34. PROVIDE OCCUPANCY SENSORS TO CONTROL LIGHTING IN ALL COMMON AREA RESTROOMS, OFFICES, STORAGE ROOMS, AMENTIES,ETC.
35. CONTRACTOR SHALL PROVIDE HOMERUN FROM SWITCH BOX PER NEC 404.2C.
36. CONDUIT FILL PER CODE
37. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LIGHTS, HVAC REGISTERS AND SPRINKLERS. IN ADDITION, THE CONTRACTOR SHALL VERIFY CEILING TYPES PRIOR TO ORDER FIXTURES.
38. ALL LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENT OF THE CEILING USING #12 GALVANIZED STEEL WIRES, TWO WIRES AT OPPOSITE CORNERS OF THE FIXTURES.
39. ALL ITEMS ON THE DRAWINGS SHALL BE NEW AND BEAR THE U.L. LABEL.
40. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE TRANSFORMER WITH THE LOCAL UTILITY COMPANY. FURTHER HE SHALL OBTAIN A DETAIL OF THE CONCRETE PAD FOR THE TRANSFORMER AND COORDINATE ANY METERING EQUIPMENT TO BE FURNISHED AND SHALL DO SO AT NO ADDITIONAL COST TO THE OWNER.
41. WHERE WALLS ARE FIRE OR SMOKE RATED THE CONTRACTOR SHALL DO HIS INSTALLATION TO PREVENT VIOLATING THE RATING OF THE WALL, THIS MEANS COMPLYING WITH ALL U.L. REGULATIONS
42. FIRE WALLS SHALL HAVE PUTTY PADS ON METALLIC BOXES UNLESS BOXES ARE RATED FOR RATING OF THE WALL.
43. PROVIDE A GROUND BAR AT EACH TELEPHONE BACKBOARD AND/OR MDF (HUB/ROUTER ROOM) AND TERMINATE USING A TERMINAL STRIP THAT CONTAINS NO LESS THAN TEN (10) PLACES FOR ADDITIONAL WIRES. BOND TO MAIN GROUND (#6 AWG) AT ELEC. RM.
44. DO NOT SCALE DRAWINGS. LOCATION OF EQUIPMENT ARE APPROXIMATE, ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE PROPER WORKING CLEARANCE.
45. ALL CONDUCTORS FOR EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG (UNLESS OTHERWISE NOTED), EXCEPT THE CONDUCTORS FROM THE HANDHOLE UP THE POLE TO THE BALLAST MAY BE #12 AWG.
46. COORDINATE LOCATION AND QUANTITY OF FIRE / SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO BID. COORDINATION OF LOCATIONS AND QUANTITIES WILL OVERRIDE LOCATIONS AND QUANTITIES INDICATED ON ELECTRICAL DRAWINGS. PROVIDE A 120V UNSWITCHED CIRCUIT TO EACH FIRE / SMOKE DAMPER. PROVIDE A DUCT MOUNTED SMOKE DETECTOR FOR EACH FIRE / SMOKE DAMPER. CONNECT DUCT MOUNTED SMOKE DETECTOR AND FIRE / SMOKE DAMPER TO FIRE ALARM SYSTEM. A CHANGE ORDER WILL NOT BE ALLOWED FOR LACK OF COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL CONTRACTOR FOR LOCATION AND QUANTITY OF FIRE / SMOKE DAMPERS.
47. COORDINATE REQUIREMENTS FOR TELEPHONE AND CABLE TELEVISION SERVICES WITH UTILITY PROVIDER PRIOR TO BID. UTILITY COMPANY REQUIREMENTS SHALL OVERRIDE REQUIREMENTS INDICATED HEREIN.
48. EXCEPT IN DWELLING UNITS, ALL SERVICE EQUIPMENT SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PROVIDED BY THE SERVICE EQUIPMENT MANUFACTURER. LABEL SHALL INCLUDE THE DATE OF CALCULATIONS. RECALCULATE AND RELABEL AS NECESSARY IN RENOVATIONS. (NEC 110.24)
49. ALL DIMENSIONS INDICATED ON DRAWINGS ARE TO CENTERLINE OF DEVICE UNO.
50. PROVIDE A TYPE WRITTEN DIRECTORY FOR ALL PANELS AND LOAD CENTERS. CORRECTLY LABEL ALL CIRCUITS, SPARES, AND SPACES.
51. REFER TO ARCHITECTURAL/INTERIOR DESIGNER DRAWINGS FOR EXACT SPECIFICATION, LOCATION AND QUANTITY OF ELECTRICAL DEVICES AND LIGHT FIXTURES.
52. SEE E6.01 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
53. NAME PLATES FOR DISCONNECT SWITCHES SHALL BE PRINTED LABELS.
54. THE CONTRACTOR SHALL MEASURE THE GROUND RESISTANCE, USING THE "FALL OF POTENTIAL METHOD" AND SUBMIT THE RESULTS TO THE A/E VIA EMAIL USING "WORD" SOFTWARE. IF THERE IS DIFFICULTY ACHIEVING 5 OHMS OR LESS THE CONTRACTOR SHALL CONTINUE TO DRIVE GROUND RODS OR ADD A NON TOXIC ENVIRONMENTALLY FRIENDLY MAGNESIUM SULFATE TO ACHIEVE THE 5 OHMS OR LESS TO GROUND. THE GROUNDING INFORMATION SHOULD BE SIGNED BY A TECHNICIAN. THE TYPE OF INSTRUMENT USE TO PERFORM THE TEST SHALL BE INCLUDED IN THE REPORT. THE TEST SHALL NOT BE DONE IF THERE HAD BEEN RAINFALL IN THE PREVIOUS 24 HOUR PERIOD. THIS SHALL BE DONE AT THE BEGINNING OF THE CONSTRUCTION PROCESS AND NOT AT THE END. ALL GROUNDS SHALL BE INTERCONNECTED AT THE MAIN GROUNDING ELECTRODE USING A ERICO MODEL TGR-A16U0PT MOUNTED ADJACENT TO THE MAIN SERVICE EQUIPMENT OR MAIN SWITCH.
55. SEE FAIR HOUSING NOTES ON UNIT PLAN DRAWINGS FOR ADDITIONAL INFORMATION ON DEVICE MOUNTING HEIGHTS. IN "HC" UNITS, DIMENSIONS SHALL BE TO TOP OF ROUGH-IN BOX.

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GRADY HEALTH SYSTEM

GRADY ESTORIA URGENT CARE

Corner of Memorial Drive & Estoria Street
Atlanta GA 30316

PROJECT NO: 25132.00

DD	DD PACKAGE	12/18/25

NOT ISSUED FOR CONSTRUCTION

12/18/25

DD DD PACKAGE

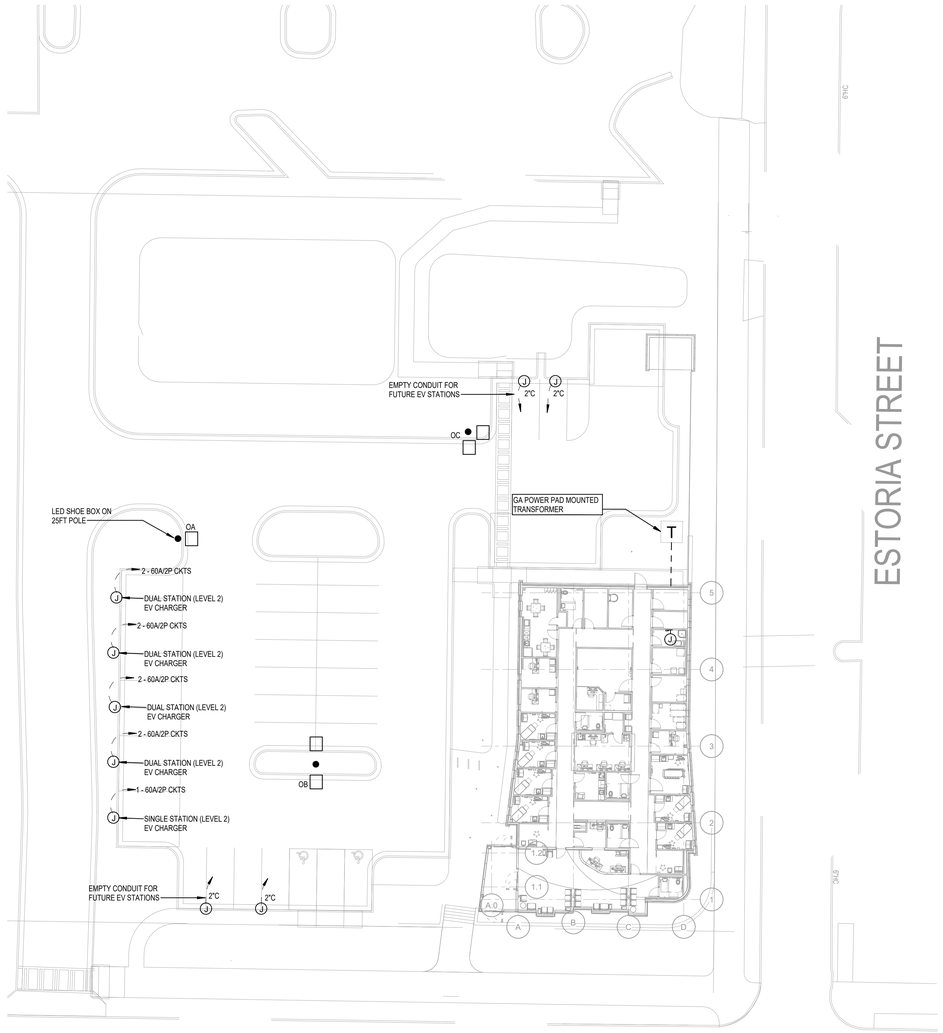
SHEET TITLE

ELECTRICAL COVER SHEET

SHEET NUMBER

E0.01

12/18/2025 4:51:56 PM



2 ELECTRICAL POWER SITE

SCALE: 1" = 20'-0"

1" = 20'-0" SCALE 20 0 20 40 FEET

GENERAL NOTES:

(THIS SHEET ONLY)

1. GENERAL/ELECTRICAL CONTRACTOR TO COORDINATE THE POWER CONDUITS WITH OTHER ELEMENTS ON SITE.
2. REFERENCE CIVIL DRAWINGS FOR UTILITY TRANSFORMER LOCATION.
3. COORDINATE WITH CIVIL, ARCHITECT, AND OWNER FOR EV CHARGER LOCATIONS IN COORDINATION WITH THE PARKING LOT.
4. SITE LIGHTING WILL BE PROVIDED BY GEORGIA POWER. ELECTRICAL CONTRACTOR TO COORDINATE WITH SITE LIGHTING.
5. TELECOM SERVICE ENTRANCE TO BE COORDINATED BY LOW VOLTAGE CONTRACTOR.

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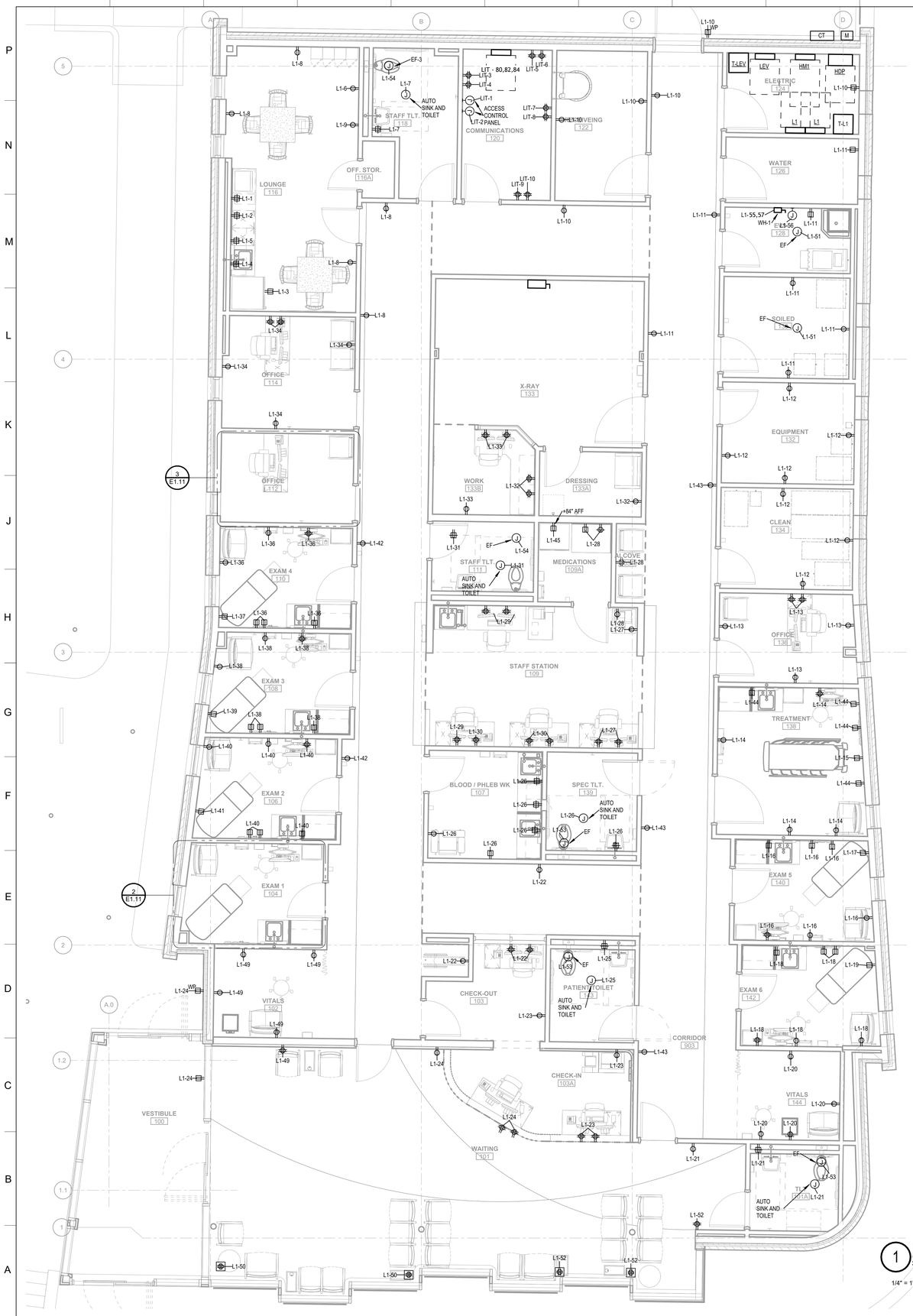
SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

E1.01

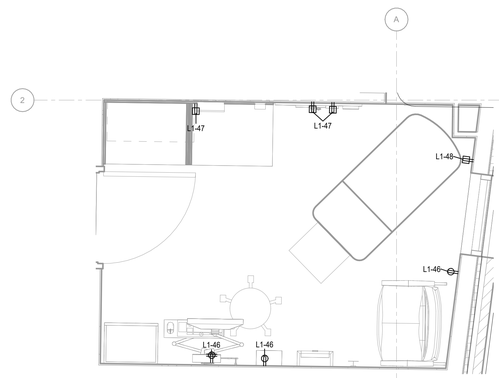
12/18/2025 4:51:58 PM



1 ELECTRICAL POWER LEVEL 01

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

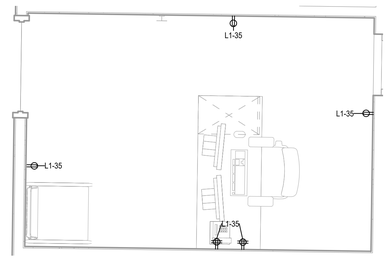
1/4" = 1'-0" SCALE 2 0 2 4 8 FEET



2 ELECTRICAL EXAM ROOM POWER

SCALE: 1/2" = 1'-0"

1/2" = 1'-0" SCALE 1 0 1 2 4 5 FEET



3 ELECTRICAL OFFICE POWER

SCALE: 1/2" = 1'-0"

1/2" = 1'-0" SCALE 1 0 1 2 4 5 FEET

POWER NOTES: (THIS SHEET ONLY)

1. IT IS THE RESPONSIBILTY OF THE CONTRACTOR TO EFFICIENTLY USE WALL SPACE OR ELECTRICAL ROOM SPACE WHEN INSTALLING NEW ELECTRICAL FIXTURE/EQUIPMENT TO MAINTAIN SPACE FOR FUTURE WORK.
2. AVOID BACK TO BACK INSTALLATION.
3. COORDINATE MOUNTING HEIGHT OF ALL OUTLETS SHOWN WITH ARCHITECT PRIOR TO ROUGH-IN.
4. SEAL ALL PENETRATIONS IN EVERY FIRE RATED WALL AND FLOOR PER U.L TO MAINTAIN THE FIRE-RESISTANCE RATING. CONTRACTOR TO COORDINATE WITH THE PROJECT ARCHITECT OR CONSULT WITH AN ARCHITECT FOR THE METHOD OF SEALING AND SEALANT TYPE.
5. JUNCTION BOX IS SHOW TO INDICATE CONNECTIONS FROM FEEDERS TO EQUIPMENT AND SHALL BE INSTALLED PER NEC AND MANUFACTURER'S REQUIREMENTS.
6. DISCONNECT SWITCHES ARE TO BE WITHIN SIGHT OF ASSOCIATED EQUIPMENT. MOUNTING HEIGHT AND LOCATION SHALL COMPLY WITH NEC AND MAUFACTURER REQUIREMENTS. COORDINATE WITH ARCHITECTURE AND MECHANICAL DRAWINGS.

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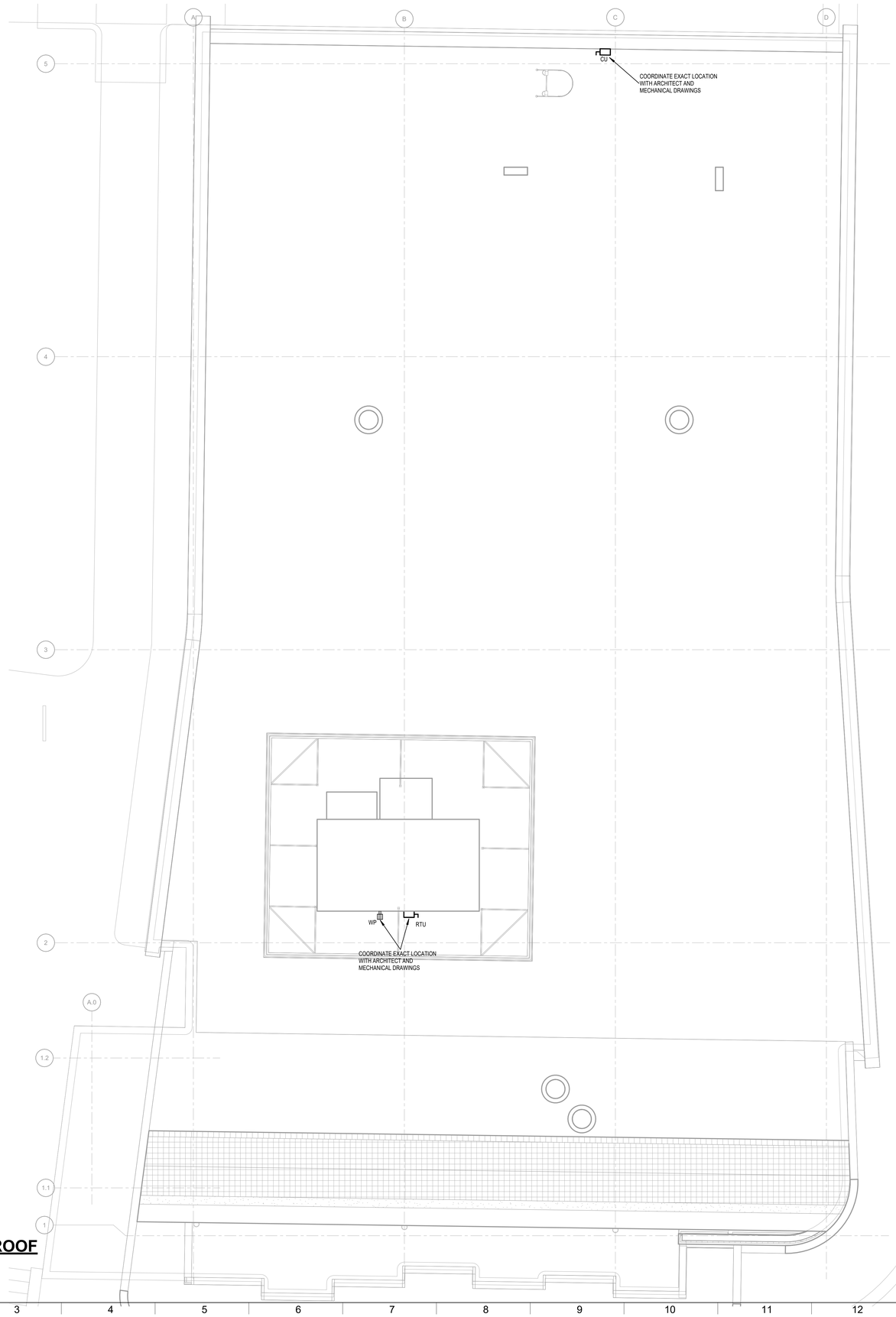
SHEET TITLE

ELECTRICAL POWER PLAN - LEVEL 1

SHEET NUMBER

E1.11

12/18/2025 4:52:02 PM



1 ELECTRICAL POWER ROOF

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

1/4" = 1'-0" 2 0 2 4 8
SCALE FEET

12/18/2025 4:52:02 PM

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DD	DD PACKAGE
12/18/25	

SHEET TITLE

ELECTRICAL POWER PLAN - ROOF

SHEET NUMBER

E1.12

1 **ELECTRICAL LIGHTING - LEVEL 1**

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

1/4" = 1'-0" 2 0 2 4 8 SCALE FEET

LIGHTING NOTES: (THIS SHEET ONLY)

1. CONTRACTOR TO COORDINATE LIGHTING FIXTURE LOCATIONS WITH OTHER DISCIPLINES TO ENSURE THAT EQUIPMENT OR OTHER WORK WILL NOT OCCUPY SPACE BELOW THE FIXTURE MOUNTING PLANES.
2. CONTRACTOR TO EVALUATE THE NEED OF SUITABLE ADHESIVE FOR ALL NUTS AND SCREWED FITTINGS INVOLVED IN THE FIXTURE MOUNTING FOR THE AREAS SUBJECT TO VIBRATION. PROPER SEISMIC BRACING SHALL BE SUPPLIED FOR ALL THE FIXTURES MOUNTED IN SUCH AREAS.
3. COORDINATE/CONFIRM EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
4. SEAL ALL PENETRATIONS IN EVERY FIRE RATED WALL AND FLOOR PER U.L TO MAINTAIN THE FIRE-RESISTANCE RATING. CONTRACTOR TO COORDINATE WITH THE PROJECT ARCHITECT OR CONSULT WITH AN ARCHITECT FOR THE METHOD OF SEALING AND SEALANT TYPE.
5. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
6. CONTRACTOR TO COORDINATE BUILDING SIGNAGE WITH ARCHITECT.

KEYNOTES

① CONNECT UNSWITCHED "HOT" TO EMERGENCY BATTERY PACK.

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GRADY HEALTH SYSTEM

GRADY ESTORIA URGENT CARE

Corner of Memorial Drive & Estoria Street
Atlanta GA 30316

PROJECT NO: 25132.00

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SHEET TITLE

ELECTRICAL LIGHTING PLAN - LEVEL 1

SHEET NUMBER

E1.21

12/18/2025 4:52:07 PM

PANELBOARD "HM1" SCHEDULE

VOLTS: 480/277 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 300 A | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 65kA | **LOCATION:** ELECTRICAL ROOM 124

NOTES:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
LIGHTING	3#12AWG - 1/2"C	20 A	1	1	2.6	16.6					2	3	70 A	3#4 & 1#8G - 1"C	RTU
LIGHTING	3#12AWG - 1/2"C	20 A	1	3			1.8	16.6			4	--	--	--	--
				5					16.6	6	--	--	--	--	--
				7		7.8					8	3	40 A	3#8 & 1#10G - 1"C	CU
				9				7.8			10	--	--	--	--
				11						7.8	12	--	--	--	--
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	26.9		26.1		24.4						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD
Lighting	4306 VA	125.00%	5383 VA
Lighting - Dwelling Unit	40 VA	125.00%	50 VA
Power	73116 VA	100.00%	73116 VA

CONNECTED LOAD: 77449 VA
CALCULATED LOAD: 78532 VA

CONNECTED AMPERES: 93 A
CALCULATED AMPERES: 94 A

PANELBOARD "L1" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 225 A | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10kA | **LOCATION:** ELECTRICAL ROOM 124

NOTES:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
LOUNGE 116 - MICROWAVE	3#12AWG - 1/2"C	20 A	1	1	1.2	1.2					2	1	20 A	3#12AWG - 1/2"C	LOUNGE 116 - MICROWAVE
LOUNGE 116 - REFRIGERATOR	3#12AWG - 1/2"C	20 A	1	3			1.2	1.0			4	1	20 A	3#12AWG - 1/2"C	LOUNGE 116 - WATER FILTER
LOUNGE 116 - COFFEE MAKER	3#12AWG - 1/2"C	20 A	1	5					1.8	1.3	6	1	20 A	3#12AWG - 1/2"C	LOUNGE 116 - VENDING
STAFF RESTROOM 118 REC	3#12AWG - 1/2"C	20 A	1	7	0.7	1.1					8	1	20 A	3#12AWG - 1/2"C	LOUNGE 116, ROOF, CONV REC
LOUNGE 116 - VENDING	3#12AWG - 1/2"C	20 A	1	9			1.3	1.1			10	1	20 A	3#12AWG - 1/2"C	RECEIVING/CONV REC
WATER/EVS/SOILED/CONV REC	3#12AWG - 1/2"C	20 A	1	11					1.3	1.3	12	1	20 A	3#12AWG - 1/2"C	EQUIPMENT/CLEAN/CONV REC
OFFICE 136 REC	3#12AWG - 1/2"C	20 A	1	13	1.3	0.9					14	1	20 A	3#12AWG - 1/2"C	TREATMENT 138/CONV REC
TREATMENT 138 PATIENT BED	3#12AWG - 1/2"C	20 A	1	15			1.4	1.3			16	1	20 A	3#12AWG - 1/2"C	EXAM 5/CONV REC
EXAM 5 PATIENT BED	3#12AWG - 1/2"C	20 A	1	17					1.4	1.3	18	1	20 A	3#12AWG - 1/2"C	EXAM 6/CONV REC
EXAM 6 PATIENT BED	3#12AWG - 1/2"C	20 A	1	19	1.4	0.7					20	1	20 A	3#12AWG - 1/2"C	VITALS 144 REC
RESTROOM 101A/CONV REC	3#12AWG - 1/2"C	20 A	1	21			0.9	1.1			22	1	20 A	3#12AWG - 1/2"C	CHECK-OUT/CONV. REC
CHECK-IN/CHECK-OUT	3#12AWG - 1/2"C	20 A	1	23					1.1	1.3	24	1	20 A	3#12AWG - 1/2"C	CHECK-IN/OUTDOOR REC
PATIENT RESTROOM 143	3#12AWG - 1/2"C	20 A	1	25	0.7	1.6					26	1	20 A	3#12AWG - 1/2"C	BLOOD/PHLEB REC
STAFF STATION 109 REC	3#12AWG - 1/2"C	20 A	1	27			0.9	0.9			28	1	20 A	3#12AWG - 1/2"C	MEDICATIONS/ALCOVE REC
STAFF STATION 109 REC	3#12AWG - 1/2"C	20 A	1	29					1.1	1.1	30	1	20 A	3#12AWG - 1/2"C	STAFF STATION 109 REC
STAFF RESTROOM 111 REC	3#12AWG - 1/2"C	20 A	1	31	0.7	0.9					32	1	20 A	3#12AWG - 1/2"C	WORK/DRESSING REC
WORK 133B/CONV REC	3#12AWG - 1/2"C	20 A	1	33			0.9	1.3			34	1	20 A	3#12AWG - 1/2"C	OFFICE 114 REC
OFFICE 112 REC	3#12AWG - 1/2"C	20 A	1	35					1.3	1.3	36	1	20 A	3#12AWG - 1/2"C	EXAM 4/CONV REC
EXAM 4 PATIENT BED	3#12AWG - 1/2"C	20 A	1	37	1.4	1.3					38	1	20 A	3#12AWG - 1/2"C	EXAM 3/CONV REC
EXAM 3 PATIENT BED	3#12AWG - 1/2"C	20 A	1	39			1.4	1.3			40	1	20 A	3#12AWG - 1/2"C	EXAM 2/CONV REC
EXAM 2 PATIENT BED	3#12AWG - 1/2"C	20 A	1	41					1.4	0.4	42	1	20 A	3#12AWG - 1/2"C	CONV REC
CONV REC	3#12AWG - 1/2"C	20 A	1	43	0.5	0.7					44	1	20 A	3#12AWG - 1/2"C	TREATMENT 138 REC
MEDS 109A/PYXIS REC	3#12AWG - 1/2"C	20 A	1	45			0.7	0.7			46	1	20 A	3#12AWG - 1/2"C	EXAM 1 REC
EXAM 1 REC	3#12AWG - 1/2"C	20 A	1	47					0.5	1.4	48	1	20 A	3#12AWG - 1/2"C	EXAM 1 PATIENT BED
VITALS 102 REC	3#12AWG - 1/2"C	20 A	1	49	1.1	0.7					50	1	20 A	3#12AWG - 1/2"C	WAITING REC
EXHAUST FANS	3#12AWG - 1/2"C	20 A	1	51			1.0	1.1			52	1	20 A	3#12AWG - 1/2"C	WAITING REC
EXHAUST FANS	3#12AWG - 1/2"C	20 A	1	53					1.5	1.0	54	1	20 A	3#12AWG - 1/2"C	EXHAUST FANS
EWH-1	3#12AWG - 1/2"C	20 A	2	55	2.0	0.5					56	1	20 A	3#12AWG - 1/2"C	RECIRCULATION PUMP
--	--	--	--	57			2.0				58				
				59							60				
				61							62				
				63							64				
				65							66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79		1.7					80	3	60 A	4#6 & 1#10G - 1"C	LIT
				81				1.4			82	--	--	--	--
				83						0.7	84	--	--	--	--
				PHASE TOTALS (kVA):	22.3		22.8		22.4						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD
Power	11500 VA	100.00%	11500 VA
Receptacle	55960 VA	71.25%	39874 VA

CONNECTED LOAD: 67460 VA
CALCULATED LOAD: 51374 VA

CONNECTED AMPERES: 187 A
CALCULATED AMPERES: 143 A

PANELBOARD "LIT" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 60 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 60 A | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10kA | **LOCATION:** COMMUNICATIONS 120

NOTES:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
ACCESS CONTROL PANEL	3#12AWG - 1/2"C	20 A	1	1	0.5	0.5					2	1	20 A	3#12AWG - 1/2"C	ACCESS CONTROL PANEL
IT RECEPTS	3#12AWG - 1/2"C	20 A	1	3			0.4	0.4			4	1	20 A	3#12AWG - 1/2"C	IT RECEPTS
IT RECEPTS	3#12AWG - 1/2"C	20 A	1	5					0.4	0.4	6	1	20 A	3#12AWG - 1/2"C	IT RECEPTS
IT RECEPTS	3#12AWG - 1/2"C	20 A	1	7	0.4	0.4					8	1	20 A	3#12AWG - 1/2"C	IT RECEPTS
IT RECEPTS	3#12AWG - 1/2"C	20 A	1	9			0.4	0.4			10	1	20 A	3#12AWG - 1/2"C	IT RECEPTS
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				PHASE TOTALS (kVA):	1.7		1.4		0.7						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD
Power	1000 VA	100.00%	1000 VA
Receptacle	2880 VA	100.00%	2880 VA

CONNECTED LOAD: 3880 VA
CALCULATED LOAD: 3880 VA

CONNECTED AMPERES: 11 A
CALCULATED AMPERES: 11 A

PANELBOARD "LEV" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 300 A | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10kA | **LOCATION:** ELECTRICAL ROOM 124

NOTES:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
EV CHARGER	2#6 & 1#10G - 3/4"C	60 A	2	1	5.0	5.0					2	2	60 A	2#6 & 1#10G - 3/4"C	EV CHARGER
--	--	--	--	3			5.0	5.0			4	--	--	--	--
EV CHARGER	2#6 & 1#10G - 3/4"C	60 A	2	5					5.0		6				
--	--	--	--	7	5.0						8				
EV CHARGER	2#6 & 1#10G - 3/4"C	60 A	2	9			5.0				10				
--	--	--	--	11					5.0		12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				PHASE TOTALS (kVA):	15.0		15.0		10.0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD
Power	39936 VA	100.00%	39936 VA

CONNECTED LOAD: 39936 VA
CALCULATED LOAD: 39936 VA

CONNECTED AMPERES: 111 A
CALCULATED AMPERES: 111 A

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GRADY HEALTH SYSTEM

GRADY ESTORIA URGENT CARE

Corner of Memorial Drive & Estoria Street
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PROJECT NO: 25132.00

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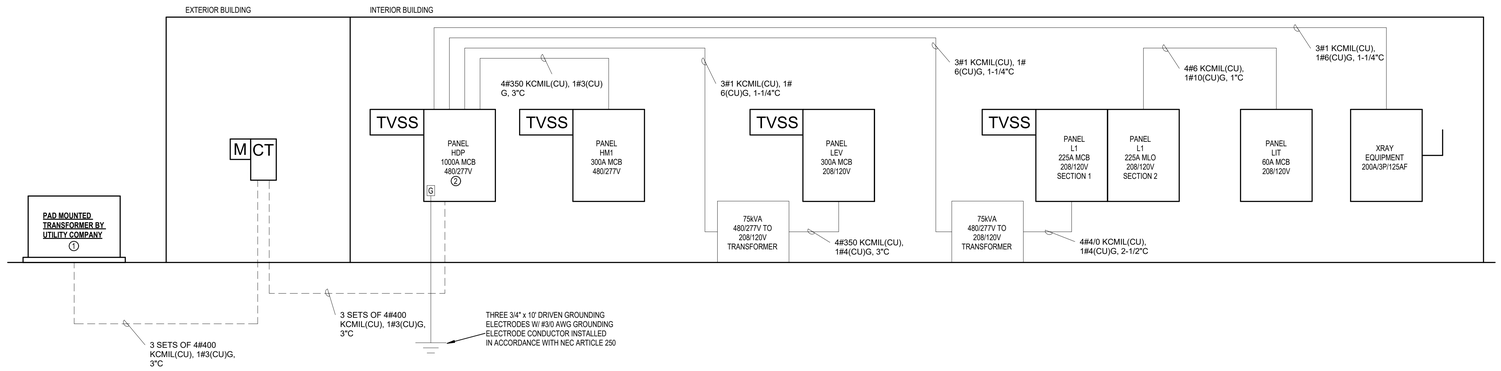
SHEET TITLE

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER

E6.01

12/18/2025 4:42:09 PM



1 Electrical Riser Diagram

SCALE: NO SCALE

KEYNOTES

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION THE UTILITY COMPANY FOR SERVICE INSTALLATION. ELECTRICAL CONTRACTOR TO INCLUDE ONE SPARE AND EMPTY 3" PVC CONDUIT IN PARALLEL TO THE UTILIZED CONDUIT AND IS TO SERVE AS A SPARE.
2. ELECTRICAL CONTRACTOR TO PROVIDE SERVICE RATED MAIN DISTRIBUTION PANEL(HDP) WITH GFI PROTECTION.

DISTRIBUTION PANELBOARD "HDP" SCHEDULE

VOLTS: 480/277 Wye | **BUS:** 1000 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 1000 A | **LOCATION:** ELECTRICAL ROOM 124
WIRE: 4 | **SCCR:** 65kA

NOTES:

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD (kVA)	REMARKS
1	PANEL HM1	3	400 A	300 A	77.4 kVA	
2	TRANSFORMER L1	3	200 A	125 A	67.5 kVA	
3	TRANSFORMER LEV	3	200 A	125 A	39.9 kVA	
4	XRAY ITEM ID: XRYGD-005	3	200 A	125 A	83.0 kVA	
5	SURGE PROTECTIVE DEVICE	3	100 A	60 A	0.0 kVA	
6						
7						
8						
9						
10						
11						
12						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD
Lighting	4306 VA	125.00%	5383 VA
Lighting - Dwelling Unit	40 VA	125.00%	50 VA
Power	124552 VA	100.00%	124552 VA
Receptacle	55960 VA	71.25%	39874 VA
X-Ray	83001 VA	100.00%	83001 VA

CONNECTED LOAD: 267845 VA
CALCULATED LOAD: 252842 VA

CONNECTED AMPERES: 322 A
CALCULATED AMPERES: 304 A

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SHEET TITLE

ELECTRICAL - SINGLE LINE DIAGRAM

SHEET NUMBER

E9.01

12/18/2025 4:52:11 PM

PROJECT GENERAL NOTES:

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. HORIZONTAL TELECOMMUNICATIONS/DATA CABLING SHALL BE ROUTED DIRECTLY BETWEEN COMPONENTS WITH NO JUNCTIONS OR SPLICES IN CABLING AND SHALL BE LABELED ACCORDING TO TIA-606A/B STANDARDS AND SPECIFICATIONS.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. FOR INTERIOR LOW VOLTAGE CABLING, PROVIDE EMT RACEWAY OR LADDER RACK FROM LOW VOLTAGE BACKBOX TO ACCESSIBLE CEILING SPACE, WITH J-HOOK SUPPORT TO TELECOM ROOM. CABLING SHALL BE SUPPORTED AT 5'-0" MAX INTERVALS. J-HOOK PATHWAYS SHALL BE ESTABLISHED TO SUPPORT CABLING AND PREVENT CONTACT OF THE CABLING WITH BUILDING STRUCTURE AND OTHER MECHANICAL SYSTEMS AND MECHANICAL SYSTEMS MOUNTING HARDWARE.
5. ALL CABLING IN SLAB ON GRADE OR BELOW GRADE TO BE OUTSIDE PLANT - WET LOCATION RATED. OSP CABLING TO BE ROUTED IN METAL CONDUIT SYSTEM TO TELECOM ROOM. OSP CABLING NOT PERMITTED TO BE EXPOSED BEYOND 50' FROM THE POINT OF BLDG ENTRY NOR IN PLENUM SPACE.
6. **ALL CONDUITS TO BE 1" TRADE SIZE (UNLESS NOTED OTHERWISE)**
7. ALL CONDUIT INSTALLATION TO MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION.
8. ALL CONDUIT AND BACKBOX INSTALLATION/ROUGH-IN TO BE COMPLETED BY ELECTRICAL CONTRACTOR. ALL CONDUITS TO BE ROUTED FROM BACKBOX TO NEAREST ACCESSIBLE CEILING SPACE OR STRUCTURED CABLING PATHWAYS.
9. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
10. NO CONDUIT RUN SHALL CONTAIN A SINGLE BEND GREATER THAN 90° OR AN AGGREGATE OF BENDS GREATER THAN 180° BETWEEN PULLING POINTS. NO CONDUIT RUN SHALL EXCEED 100' BETWEEN PULLING POINTS. PROVIDE JUNCTION BOXES WHERE REQUIRED TO MAINTAIN BEND AND DISTANCE REQUIREMENTS.
11. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
12. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
13. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES WITHOUT FACEPLATES, AND PULL BOXES. LABELING SHALL INCLUDE THE CABLE TYPES AND THE APPLICABLE NUMBERING SCHEME FOR EACH CABLE CONTAINED WITHIN THE BOX. REFER TO SPECIFICATIONS FOR LABELING REQUIREMENTS.
14. IN OPEN CEILINGS, NON-ACCESSIBLE CEILING SPACE, MECHANICAL SPACES, AND ELEVATOR CONTROL ROOMS, ALL SIGNAL AND LOW VOLTAGE POWER CABLE TO BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 1". SIZE PER NEC 40% FILL REQUIREMENT.
15. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT. UTILIZE STRUCTURALLY CONDUIT LEAVE OUTS IN LIEU OF ROUTING BELOW STRUCTURAL BEAMS.
16. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
17. HORIZONTAL TELECOMMUNICATIONS/DATA CABLING SHALL MEET THE REQUIREMENTS OF ANSI/TIA568 AND SHALL NOT EXCEED 90 METERS (295 FT) OF TOTAL CABLE DISTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF 90 METER RULE.
18. LOW VOLTAGE CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED SLEEVES FOR ROUTING OF LOW VOLTAGE CABLING. LOW VOLTAGE CONTRACTOR TO FIRE STOP ALL PENETRATIONS TO MAINTAIN RATING OF WALL. SEE DETAILS FOR EXACT REQUIREMENTS.
19. COORDINATE EXACT LOCATION OF VOICE/DATA, DATA, & TV OUTLETS WITH POWER RECEPTACLES.
20. WIRELESS ACCESS POINT FINAL QUANTITIES AND LOCATIONS TO BE DETERMINED THROUGH PREDICTIVE SURVEY ANALYSIS. SURVEY ANALYSIS SHALL BE SUBMITTED TO DESIGN TEAM FOR APPROVAL PRIOR TO DEVICE INSTALLATION.
21. COORDINATE ALL VIDEO SURVEILLANCE CAMERA LOCATIONS WITH FIELD CONDITIONS. CONTRACTOR TO VERIFY CLEAR FIELD OF VIEW AND SUBMIT RFI FOR RELOCATION DUE TO OBSTRUCTION OF VIEWS.
22. FOR ALL EXTERIOR CAMERA LOCATIONS AND CABLING ROUTED THROUGH EXTERIOR WALLS, CONTRACTOR TO PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION DEVICES (TVSS) FOR SIGNAL AND POWER CONDUCTORS TYPICAL TO DITEK DTK-MRJPOES AT CAMERA LOCATION AND DITEK RACK MOUNT DTK-RM12POE SURGE PROTECTOR AT ASSOCIATED TELECOM CLOSET.
23. REFERENCE SECURITY CAMERA SCHEDULES FOR VIEWS AND MOUNTING REQUIREMENTS. POSITION CAMERAS AS NOTED ON DRAWINGS THEN ADJUST AND FOCUS CAMERA VIEW TO SATISFACTION OF OWNER. COORDINATE LOCATIONS OF ALL VIDEO SURVEILLANCE CAMERAS WITH BUILDING SYSTEMS IN ORDER TO ENSURE CLEAR FIELD-OF-VIEW.
24. COORDINATE MEDIA CONVERSION DEVICE REQUIREMENTS, ELECTRICAL POWER, ANCILLARY ENCLOSURES, & COMPOSITE FIBER/COPPER CABLE LOCATIONS WITH DIVISION 27. COMPOSITE FIBER CABLING REQUIRED FOR VIDEO SURVEILLANCE CAMERAS LOCATED ON LIGHTING POLES AND AT LOCATIONS EXCEEDING 100 METERS FROM IDF/TELECOM ROOMS.
25. INTERFACE SECURITY AND ACCESS CONTROL SYSTEM POWER SUPPLIES WITH FIRE ALARM SYSTEM OUTPUTS. ALL DOORS TO RELEASE UPON FIRE ALARM SIGNAL, WHERE REQUIRED BY CODE.
26. SECURITY CONTRACTOR TO PROVIDE ALL LOCK POWER SUPPLIES AND INTERFACE TO ELECTRONIC DOOR HARDWARE FOR CONTROL.
27. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS AS WELL AS LOCAL AHJ TO MAINTAIN EGRESS REQUIREMENTS.
28. ALL CONDUITS ROUTED BELOW GRADE TO BE SCHEDULE 40 PVC AND ALL CONDUITS ROUTED ABOVE GRADE TO BE EMT.
29. ALL CONDUITS ROUTED BELOW GRADE TO BE SEALED TO PREVENT WATER INFILTRATION INTO EQUIPMENT ROOMS.
30. ALL CONDUIT INSTALLED INDOORS AND BELOW CEILING TO BE PAINTED TO MATCH DECOR.
31. AS REQUIRED BY NATIONAL ELECTRIC CODE, NEC 300.5 (A), PROVIDE MINIMUM OF 24" OF COVER WHERE CONDUITS ARE CROSSING UNDER STREETS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING AREAS.
32. CONTRACTOR SHALL UTILIZE RIGID CONDUIT ELBOWS FOR ALL 90° CONDUIT TURN-UPS FROM UNDERGROUND DUCT BANKS TO INTERIOR LOCATIONS.
33. REFERENCE VOICE AND DATA ONE-LINE DIAGRAMS FOR INSTALLATION REQUIREMENTS ASSOCIATED WITH REQUIRED BACKBONE CABLING SYSTEMS.
34. REFERENCE ELECTRICAL SPECIFICATIONS FOR DUCT BANK INSTALLATION REQUIREMENTS. ALL NEW EXTERIOR DUCTBANKS TO BE PROVIDED WITH METALLIC TRACER WIRE TO ALLOW FUTURE LOCATION.

COMMON ABBREVIATIONS:

ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BDA	BI-DIRECTIONAL ANTENNA
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOH	BACK OF HOUSE
C	CONDUIT
CAT	CATEGORY CABLE
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CTRL	CONTROL
D	DEPTH, DEEP
DAS	DISTRIBUTED ANTENNA SYSTEM
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSIONS
DIV	DIVISION
DS	DIGITAL SIGNAGE DISPLAY
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
ER	EQUIPMENT RACK
EX	EXISTING
FA	FIRE ALARM
FB	FLOOR BOX
FLEX	FLEXIBLE
FLR	FLOOR
FO	FIBER OPTIC
FT	FEET
GND	GROUND
GA	GAUGE
H	HEIGHT
HOR	HORIZONTAL
I/O	INPUT / OUTPUT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
ISO	ISOLATED
JB	JUNCTION BOX
KPD	KEYPAD
KW	KILOWATT
L	LENGTH, LEFT
L/R	LEFT / RIGHT
LAN	LOCAL AREA NETWORK
LB	POUNDS
LTG	LIGHTING
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MMFO	MULTIMODE FIBER OPTIC CABLE
MTD	MOUNTED
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. NETWORK
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
PC	PERSONAL COMPUTER
PDU	POWER DISTRIBUTION UNIT
PGM	PROGRAM
PH	PHASE
PNL	PANEL
POE	POWER OVER ETHERNET
PRH	PROJECT RECEPTACLE HEIGHT
PROX	PROXIMITY SENSOR
PS	POWER SUPPLY
PSI	POUNDS PER SQUARE INCH
PT	PASS THROUGH
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RIGHT
RCP	REFLECTED CEILING PLAN
REF	REFERENCE, REFER
REQ	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SQFT	SQUARE FEET
SIM	SIMILAR
SMFO	SINGLE MODE FIBER OPTIC CABLE
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SUSP	SUSPEND
TBB	TELECOM GROUNDING BUSBAR
TBD	TO BE DETERMINED
TMGB	TELECOM MAIN GROUNDING BUSBAR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPRE
VERT	VERTICAL
VOIP	VOICE OVER INTERNET PROTOCOL
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT

DEVICE LEGEND - TELECOM/STRUCTURED CABLING

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	CABLING QTY & TYPE	ELECTRICAL CONDUIT ROUGH-IN	DEVICE NOTES
◁#	WALL MOUNT DATA OUTLET	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	18" AFF - UNO	(2) CATEGORY 6 - UNO	ONE(1) - 1" EMT CONDUIT. FOR MORE THAN 3 CABLES UPSIZE CONDUIT TO MEET NEC 40% FILL RATIO	"#" NUMERICAL SUBSCRIPT DENOTES TOTAL NUMBER OF REQUIRED CABLES. SINGLE GANG TILE RING REQUIRED.
◁C	WALL MOUNT DATA OUTLET ABOVE COUNTER	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	42" AFF - UNO	(2) CATEGORY 6 - UNO	ONE(1) - 1" EMT CONDUIT. FOR MORE THAN 3 CABLES UPSIZE CONDUIT TO MEET NEC 40% FILL RATIO	SINGLE GANG TILE RING REQUIRED
◁TV	TELEVISION DATA OUTLET	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	---	(2) CATEGORY 6 - UNO	ONE(1) - 1" EMT CONDUIT	REFER TO AV DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR BACK BOX HEIGHT AND TERMINATION / MOUNTING REQUIREMENTS
◁) #	CEILING WIRELESS ACCESS POINT DATA OUTLET	---	---	(2) CATEGORY 6A - UNO	ONE(1) - 1" EMT CONDUIT	PROVIDE 20" SERVICE LOOP SUPPORTED FROM J-HOOKS SPACED 12" APART AND SUPPORTED FROM STRUCTURAL CEILING ABOVE.
▽ #	FLOORBOX DATA OUTLET	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	---	(2) CATEGORY 6 - UNO	ONE(1) - 1" EMT CONDUIT	PROVIDE 20" SERVICE LOOP SUPPORTED FROM J-HOOKS SPACED 12" APART AND SUPPORTED FROM STRUCTURAL CEILING ABOVE.

DEVICE LEGEND - SECURITY/ACCESS CONTROL (DEVICES PROVIDED & INSTALLED BY SECURITY CONTRACTOR)

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	CABLING QTY & TYPE	ELECTRICAL CONDUIT ROUGH-IN	DEVICE NOTES
CR	MULTI-TECHNOLOGY CARD READER	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	42" AFF - UNO	22-18AWG, 6 CONDUCTOR TWISTED,OA-SHIELD.	ONE(1) - 3/4" EMT CONDUIT TO SECURITY JUNCTION BOX IN ACCESSIBLE CEILING	SINGLE GANG TILE RING REQUIRED
ES	ELECTRIC DOOR STRIKE	---	---	18AWG, 2 CONDUCTOR & 22AWG, 4 CONDUCTOR	ONE(1) - 3/4" EMT CONDUIT FROM DOOR FRAME TO SECURITY JUNCTION BOX IN ACCESSIBLE CEILING	ELECTRONIC STRIKE HARDWARE AND TRANSFER HINGE BY DIVISION 8. POWER SUPPLY PROVIDED AND INSTALLED BY SECURITY CONTRACTOR.
E	ELECTRIC DOOR HARDWARE	---	---	18AWG, 2 CONDUCTOR & 22AWG, 4 CONDUCTOR	ONE(1) - 3/4" EMT CONDUIT FROM DOOR FRAME TO SECURITY JUNCTION BOX IN ACCESSIBLE CEILING	ELECTRONIC LOCKING HARDWARE W/INTEGRATED REQUEST TO EXIT. POWER SUPPLY PROVIDED AND INSTALLED BY SECURITY CONTRACTOR.
P	DOOR POSITION SWITCH	---	---	22AWG, 2 CONDUCTOR	ONE(1) - 3/4" EMT CONDUIT FROM DOOR FRAME TO SECURITY JUNCTION BOX IN ACCESSIBLE CEILING	SINGLE-POLE/ DOUBLE-THROW DOOR POSITION SENSORS. PROVIDED, INSTALLED AND WIRED BY SECURITY CONTRACTOR
DB	DURESS BUTTON	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	COORDINATE WITH FURNITURE	22AWG, 2 CONDUCTOR	ONE(1) - 3/4" FLEX CONDUIT TO WALL MOUNT J-BOX AND ONE(1) - 3/4" EMT CONDUIT TO ACCESSIBLE CEILING	PROVIDE MIN 6FT ARMORED CABLE SERVICE LOOP TO WALL MOUNT J-BOX. COORDINATE WITH FURNITURE FOR EXACT BUTTON PLACEMENT.
●	ADA DOOR ACTUATOR BUTTON	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	48" AFF - UNO	22AWG, 4 CONDUCTOR	ONE(1) - 3/4" EMT CONDUIT	COORDINATE WITH DIVISION 8 FOR INTERFACE TO SHUNT DOOR OPERATOR BUTTON UNTIL VALID CARD READ. SINGLE GANG TILE RING REQUIRED

DEVICE LEGEND - INTRUSION DETECTION (DEVICES PROVIDED & INSTALLED BY SECURITY CONTRACTOR)

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	CABLING QTY & TYPE	ELECTRICAL CONDUIT ROUGH-IN	DEVICE NOTES
KP	INTRUSION KEYPAD/ANNUNCIATOR	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	54" AFF - UNO	(1) 22AWG, 4 CONDUCTOR, STRANDED, UNSHIELDED	ONE(1) - 3/4" EMT CONDUIT	SINGLE GANG TILE RING REQUIRED
MD	360° MOTION DETECTOR (CEILING MOUNTED)	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	---	22AWG, 2 CONDUCTOR	ONE(1) - 3/4" EMT CONDUIT	ROUTE SIGNAL AND POWER TO INTRUSION DETECTION SYSTEM IN DEDICATED RACEWAY. SINGLE GANG TILE RING REQUIRED
GB	GLASS BREAK DETECTOR	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	---	22AWG, 2 CONDUCTOR	ONE(1) - 3/4" EMT CONDUIT	ROUTE SIGNAL AND POWER TO INTRUSION DETECTION SYSTEM IN DEDICATED RACEWAY. SINGLE GANG TILE RING REQUIRED

DEVICE LEGEND - VIDEO SURVEILLANCE (DEVICES & MOUNTING HARDWARE PROVIDED & INSTALLED BY SECURITY CONTRACTOR)

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	CABLING QTY & TYPE	ELECTRICAL CONDUIT ROUGH-IN	DEVICE NOTES
	SINGLE SENSOR FIXED CAMERA	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	SEE FLOOR PLANS	(1) CATEGORY 6 - BY TELECOM CONTRACTOR	ONE(1) - 1" EMT CONDUIT	ELECTRICAL ROUGH-IN ONLY REQUIRED FOR INACCESSIBLE AND OPEN CEILINGS. SINGLE GANG TILE RING REQUIRED. REFER TO CAMERA INSTALLATION DETAILS AND SCHEDULE FOR FURTHER REQUIREMENTS.
	DUAL SENSOR FIXED CAMERA	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	SEE FLOOR PLANS	(1) CATEGORY 6 - BY TELECOM CONTRACTOR	ONE(1) - 1" EMT CONDUIT	ELECTRICAL ROUGH-IN ONLY REQUIRED FOR INACCESSIBLE AND OPEN CEILINGS. SINGLE GANG TILE RING REQUIRED. REFER TO CAMERA INSTALLATION DETAILS AND SCHEDULE FOR FURTHER REQUIREMENTS.
	MULTI SENSOR (3) FIXED CAMERA	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	SEE FLOOR PLANS	(1) CATEGORY 6 - BY TELECOM CONTRACTOR	ONE(1) - 1" EMT CONDUIT	ELECTRICAL ROUGH-IN ONLY REQUIRED FOR INACCESSIBLE AND OPEN CEILINGS. SINGLE GANG TILE RING REQUIRED. REFER TO CAMERA INSTALLATION DETAILS AND SCHEDULE FOR FURTHER REQUIREMENTS.
	MULTI SENSOR (4) FIXED CAMERA	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	SEE FLOOR PLANS	(1) CATEGORY 6 - BY TELECOM CONTRACTOR	ONE(1) - 1" EMT CONDUIT	ELECTRICAL ROUGH-IN ONLY REQUIRED FOR INACCESSIBLE AND OPEN CEILINGS. SINGLE GANG TILE RING REQUIRED. REFER TO CAMERA INSTALLATION DETAILS AND SCHEDULE FOR FURTHER REQUIREMENTS.
	FISH-EYE CAMERA	4" SQUARE BACKBOX W/ SINGLE GANG TILE RING	SEE FLOOR PLANS	(1) CATEGORY 6 - BY TELECOM CONTRACTOR	ONE(1) - 1" EMT CONDUIT	ELECTRICAL ROUGH-IN ONLY REQUIRED FOR INACCESSIBLE AND OPEN CEILINGS. SINGLE GANG TILE RING REQUIRED. REFER TO CAMERA INSTALLATION DETAILS AND SCHEDULE FOR FURTHER REQUIREMENTS.

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GRADY HEALTH SYSTEM

GRADY ESTORIA URGENT CARE

Center of Memorial Drive & Estoria Street
Atlanta GA 30316

PROJECT NO: 25132.00

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LV-000

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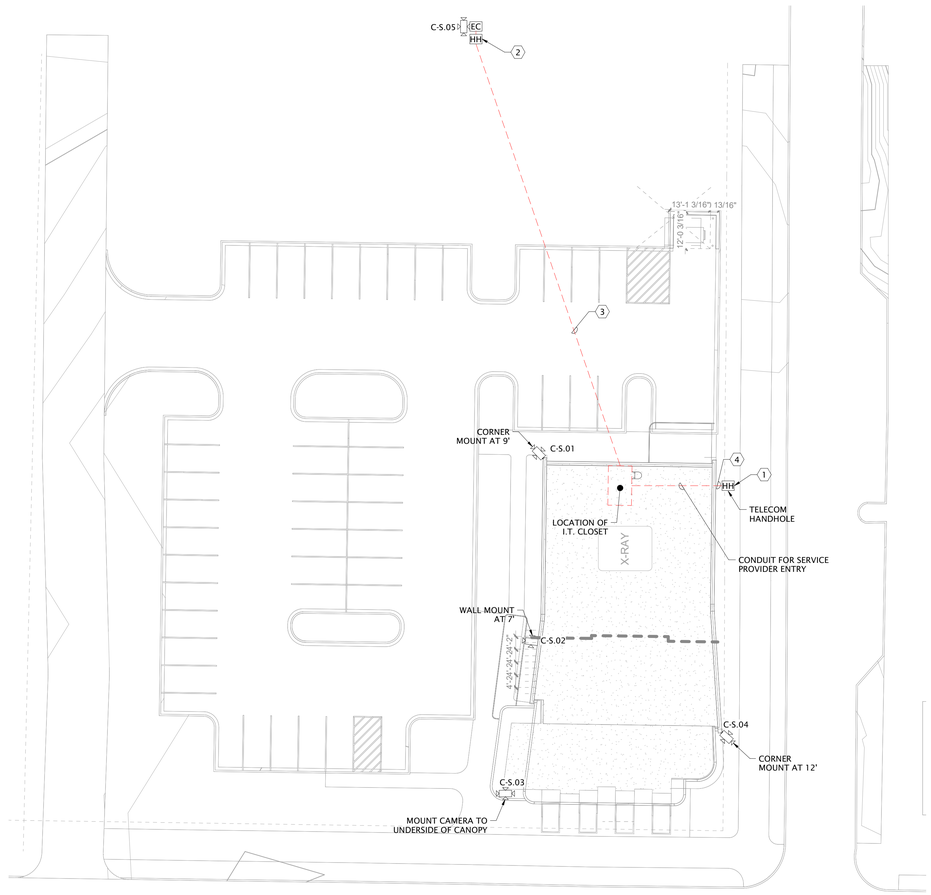

1 **SITE PLAN**
1" = 20'-0"

GENERAL NOTES:

A. AS REQUIRED BY NATIONAL ELECTRIC CODE, NEC 300.5 (A), PROVIDE MINIMUM OF 24" OF COVER WHERE CONDUITS ARE CROSSING UNDER STREET, ROADS, ALLEYS, DRIVEWAYS, AND PARKING AREAS.

B. ALL EXTERIOR UNDERGROUND CONDUIT PATHWAYS TO BE PROVIDED WITH METALLIC TRACER WIRE TO ALLOW FUTURE LOCATION.

C. ALL CONDUITS ROUTED BELOW GRADE TO BE SEALED TO PREVENT WATER INFILTRATION INTO EQUIPMENT ROOMS.

D. THE CONTRACTOR SHALL UTILIZE RIGID CONDUIT ELBOWS FOR ALL 90° CONDUIT TURN-UPS FROM UNDERGROUND DUCTS BANKS TO INTERIOR LOCATIONS.

E. ALL SLAB AND CMU BLOCK WALL PENETRATIONS TO BE FIRE-PROOFED AND SEALED.

F. ALL UNDERGROUND CABLING TO BE OSP RATED.

G. FOR COPPER CABLES, GROUND WITH PROTECTOR BLOCKS AT THE TRANSITION BETWEEN OUTSIDE PLANT AND INSIDE PLANT CABLING.

H. ALL SITE HANDHOLE LOCATIONS TO BE COORDINATED WITH LANDSCAPE ARCHITECT FOR PLACEMENT IN CONCEALED LOCATIONS (EX. PINESTRAW BED, MULCH BED, ETC). HANDHOLES SHALL NOT BE LOCATED IN HARDSCAPE.

I. ALL DAMAGED LANDSCAPING, ASPHALT, AND CONCRETE SHALL BE RETURNED BACK TO THE ORIGINAL CONDITION.

KEY NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL QUAZITE 30"X60" PG STYLE POLYMER CONCRETE ASSEMBLY WITH 2 BOLT, TIER 15 LID, STANDARD OPEN BOTTOM 30" DEEP BOX. BOX SHALL BE TYPICAL TO PART #PG3060BA30 AND LID SHALL BE TYPICAL TO PART #PG3060HA0012. SEE INSTALLATION DETAIL FOR COMPLETE REQUIREMENTS.

2. CONTRACTOR TO PROVIDE AND INSTALL QUAZITE 11"X18" PG STYLE POLYMER CONCRETE ASSEMBLY WITH 2 BOLT, TIER 15 LID, STANDARD OPEN BOTTOM 18" DEEP BOX. BOX SHALL BE TYPICAL TO PART #PG1118BA18 AND LID SHALL BE TYPICAL TO PART #PG1118HA0012. SEE INSTALLATION DETAIL FOR COMPLETE REQUIREMENTS.

3. CONTRACTOR TO INSTALL BELOW GRADE, ONE (1)-1.5" SCHEDULE 40 PVC CONDUITS BETWEEN HANDHOLE AND STUB INTO BASE OF EMERGENCY CALL STANCHION/CAMERA POLE PER NEC CODE REQUIREMENTS. ALL CONDUIT OPENINGS ARE TO BE SEALED TO PREVENT WATER INFILTRATION.

4. CONTRACTOR TO INSTALL BELOW GRADE, TWO (2)-2" SCHEDULE 40 PVC CONDUITS BETWEEN HANDHOLE AND STUB INTO IT COMM ROOM PER NEC CODE REQUIREMENTS. ALL CONDUIT OPENINGS ARE TO BE SEALED TO PREVENT WATER INFILTRATION.

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GRADY ESTORIA URGENT CARE

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SHEET TITLE
SITE PLAN

SHEET NUMBER
LV-101

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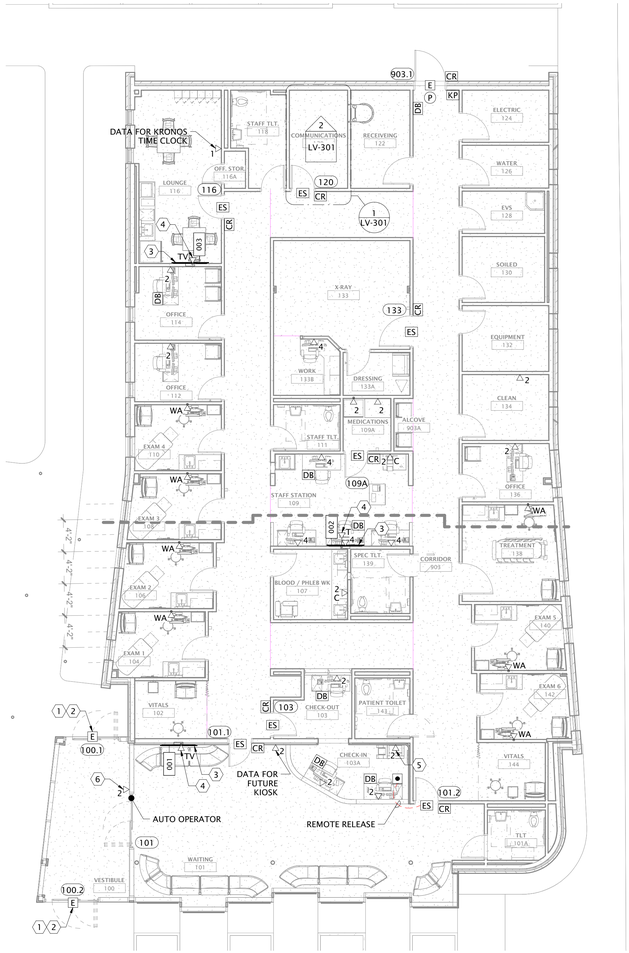

1 **LEVEL 1**
1/8" = 1'-0"

GENERAL NOTES:

A. ALL LOW VOLTAGE CONTRACTORS SHALL BE REQUIRED TO PARTICIPATE IN CEILING COORDINATION MEETINGS ALONG WITH OTHER SPECIALTIES AND CONTRACTOR TRADES.

B. COORDINATE EXACT LOCATION AND ORIENTATION OF VOICE/DATA, CATV, AND DATA OUTLETS WITH POWER RECEPTACLES. DATA OUTLETS TO MATCH POWER RECEPTACLE ORIENTATION AND ELEVATION.

C. ALL INTERIOR LOW VOLTAGE CABLES SHALL BE PLENUM RATED. IN OPEN CEILINGS AND CEILING SPACES THAT ARE NOT ACCESSIBLE, CABLES SHALL BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 3/4", SIZE ALL CONDUIT PER NEC 40% FILL REQUIREMENT.

D. ALL CONDUIT INSTALLATION TO MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION.

E. FOR ALL LOW VOLTAGE CABLING, PROVIDE EMT RACEWAY FROM DEVICE BACKBOX TO ACCESSIBLE CEILING SPACE, WITH J-HOOK SUPPORT TO NEAREST CORRIDOR J-HOOKTREE SUPPORT SYSTEM. J-HOOKS SHALL BE INSTALLED ON 4'-0" TO 5'-0" CENTERS.

F. CONDUIT SLEEVES TO BE PROVIDED FOR ALL LOW VOLTAGE CABLING ROUTED ABOVE GYPSUM OR INACCESSIBLE CEILING LOCATION. SLEEVES SHALL BE SIZED FOR MAXIMUM 40% FILL REQUIREMENT.

G. THE J-HOOK PATHWAY FOR HORIZONTAL LOW VOLTAGE CABLES SHALL BE COORDINATED WITH OTHER TRADES, PLACEMENT SHALL ALLOW FUTURE ACCESS AND LINE UP WITH FIREWALL PENETRATIONS.

H. ALL VOICE, DATA, & CATV CABLES TO BE ROUTED DIRECT TO TELECOM ROOM WITHOUT SPLICES. NO JUNCTIONS OR SPLICES IN CABLES ARE ACCEPTABLE.

I. REFERENCE DETAIL SHEETS FOR DEVICE MOUNTING REQUIREMENTS AND ADDITIONAL INFORMATION. COORDINATE THE LOCATION AND MOUNTING HEIGHT OF LOW VOLTAGE DEVICES WITH THE ARCHITECTURAL FLOOR PLANS AND ELEVATION DRAWINGS.

J. REFERENCE CAMERA SCHEDULE FOR VIEWS AND MOUNTING REQUIREMENTS. ALL CAMERA VIEWS SHALL BE COORDINATED AND APPROVED BY THE OWNER'S DIRECTOR OF SECURITY OPERATIONS.

KEY NOTES:

1. CONTRACTOR TO INTEGRATE REQUEST-TO-EXIT SIGNAL FROM ELECTRIC DOOR HARDWARE AND DOOR POSITION SWITCH INTO ACCESS CONTROL SYSTEM. REQUEST-TO-EXIT SIGNAL SHALL SHUNT DOOR ALARM.
2. DOOR TO BE CONTROLLED ON SCHEDULE FOR LOCK/UNLOCK THROUGH SECURITY AND ACCESS CONTROL SCHEDULING FUNCTIONALITY. COORDINATE WITH OWNER FOR EXACT SCHEDULING REQUIREMENTS.
3. FLAT PANEL DISPLAY LOCATION. OWNER PROVIDED AND CONTRACTOR INSTALLED FLAT PANEL DISPLAY. GENERAL CONTRACTOR TO PROVIDE WALL BLOCKING FOR DISPLAY. SEE ELEVATIONS FOR EXACT REQUIREMENTS.
4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE(1) 120V/20A POWER OUTLET ADJACENT TO DATA OUTLET. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.
5. DATA OUTLET FOR PRINTER LOCATION. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT HEIGHT. MOUNT ADJACENT TO POWER RECEPTACLE.
6. DATA OUTLET FOR FUTURE WEAPONS DETECTION SYSTEM. CONTRACTOR TO MOUNT TO FLOOR BASEBOARD MULLION. ELECTRICAL CONTRACTOR TO PROVE POWER RECEPTACLE ADJACENT TO DATA.

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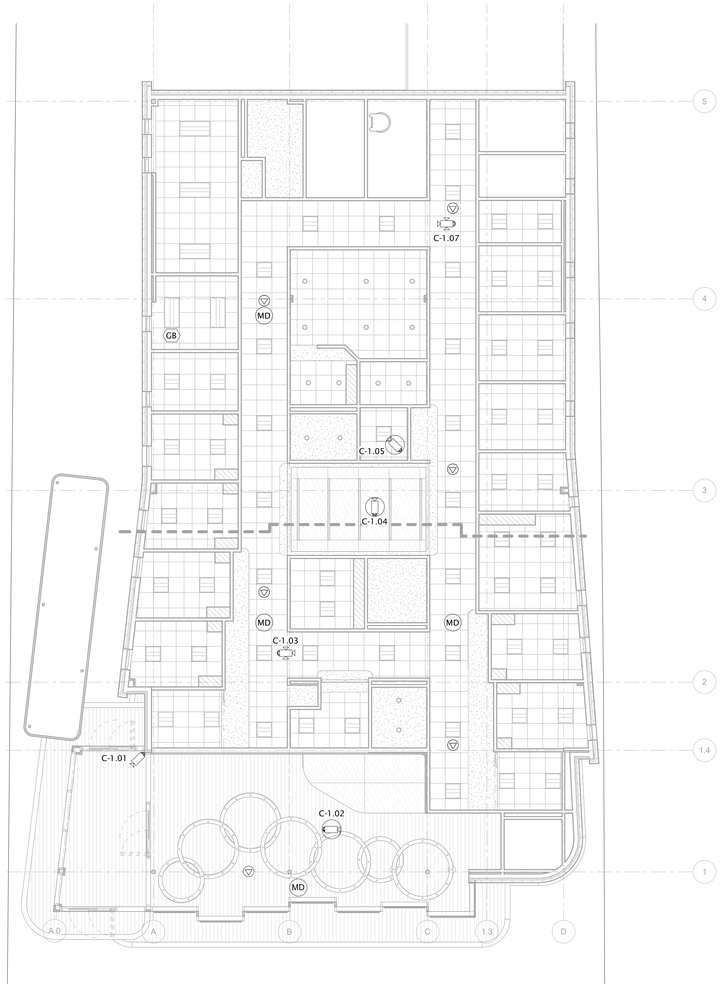
SHEET TITLE
LEVEL 1 - FLOOR PLAN

SHEET NUMBER
LV-201

12/17/2025 3:48:23 PM



1 **LEVEL 1**
1/8" = 1'-0"

GENERAL NOTES:

A. ALL LOW VOLTAGE CONTRACTORS SHALL BE REQUIRED TO PARTICIPATE IN CEILING COORDINATION MEETINGS ALONG WITH OTHER SPECIALTIES AND CONTRACTOR TRADES.

B. COORDINATE EXACT LOCATION AND ORIENTATION OF VOICE/DATA,CATV, AND DATA OUTLETS WITH POWER RECEPTACLES. DATA OUTLETS TO MATCH POWER RECEPTACLE ORIENTATION AND ELEVATION.

C. ALL INTERIOR LOW VOLTAGE CABLES SHALL BE PLENUM RATED. IN OPEN CEILINGS AND CEILING SPACES THAT ARE NOT ACCESSIBLE, CABLES SHALL BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 3/4", SIZE ALL CONDUIT PER NEC 40% FILL REQUIREMENT.

D. ALL CONDUIT INSTALLATION TO MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION.

E. FOR ALL LOW VOLTAGE CABLING, PROVIDE EMT RACEWAY FROM DEVICE BACKBOX TO ACCESSIBLE CEILING SPACE, WITH J-HOOK SUPPORT TO NEAREST CORRIDOR J-HOOK TREE SUPPORT SYSTEM. J-HOOKS SHALL BE INSTALLED ON 4'-0" TO 5'-0" CENTERS.

F. THE J-HOOK PATHWAY FOR HORIZONTAL LOW VOLTAGE CABLES SHALL BE COORDINATED WITH OTHER TRADES, PLACEMENT SHALL ALLOW FUTURE ACCESS AND LINE UP WITH FIREWALL PENETRATIONS.

G. ALL VOICE, DATA, & CATV CABLES TO BE ROUTED DIRECT TO TELECOM ROOM WITHOUT SPLICES. NO JUNCTIONS OR SPLICES IN CABLES ARE ACCEPTABLE.

H. REFERENCE DETAIL SHEETS FOR DEVICE MOUNTING REQUIREMENTS AND ADDITIONAL INFORMATION. COORDINATE THE LOCATION AND MOUNTING HEIGHT OF LOW VOLTAGE DEVICES WITH THE ACHITECTURAL FLOOR PLANS AND ELEVATION DRAWINGS.

I. REFERENCE CAMERA SCHEDULE FOR VIEWS AND MOUNTING REQUIREMENTS. ALL CAMERA VIEWS SHALL BE COORDINATED AND APPROVED BY THE OWNER'S DIRECTOR OF SECURITY OPERATIONS.

J. THE CONTRACTOR IS RESPONSIBLE FOR CORING FURNITURE FEED THROUGHS REQUIRED FOR DATA PATHWAYS TO FINAL EQUIPMENT LOCATIONS. COORDINATE EQUIPMENT PLACEMENT REQUIRING FEEDTHROUGHS AND DESKTOP GROMMETS WITH THE OWNER FOR LOCATIONS.

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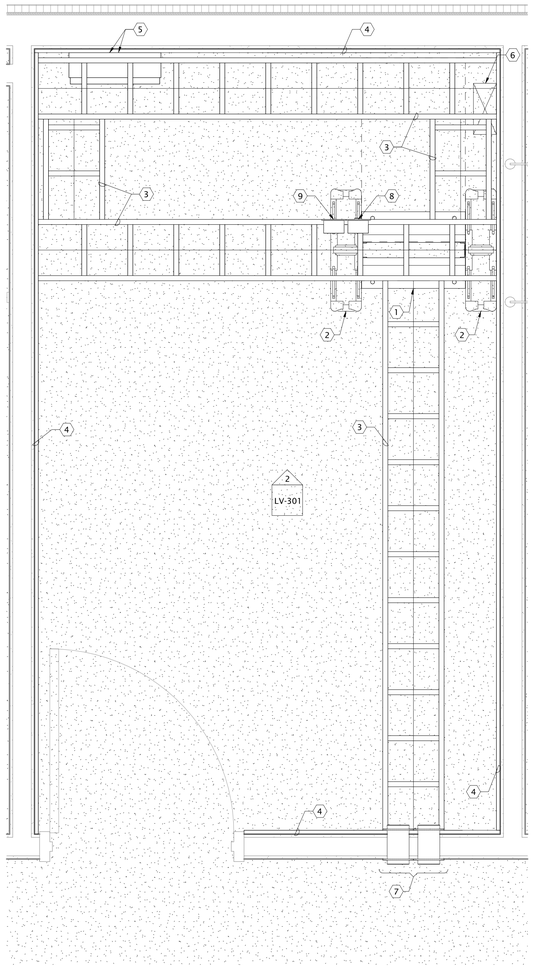
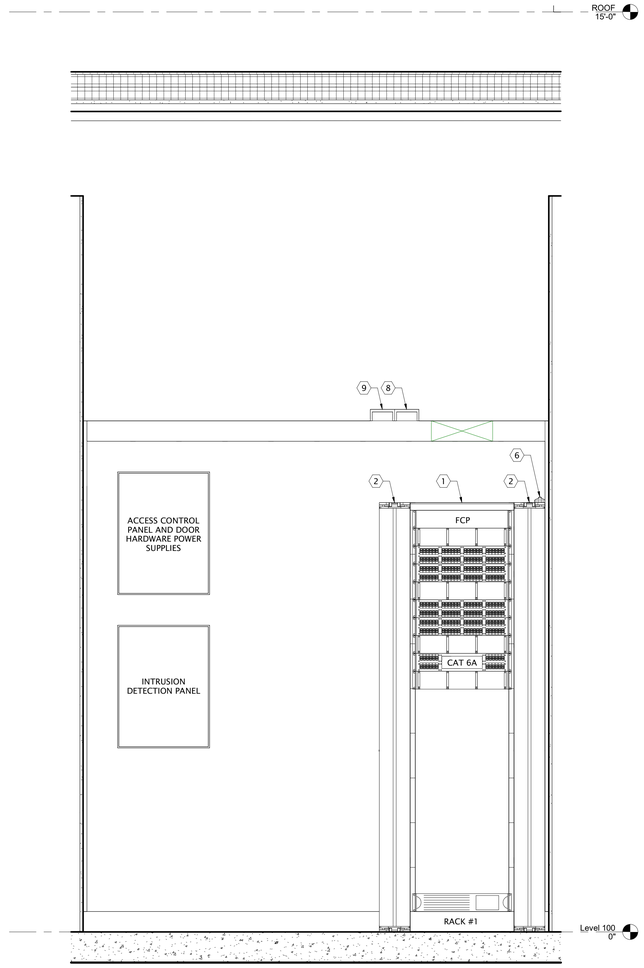
SHEET TITLE
LEVEL 1 - RCP

SHEET NUMBER
LV-211

12/17/2025 3:48:24 PM



1 **LEVEL 1 - COMMUNICATIONS 120**
1" = 1'-0"



2 **RACK ELEVATION**
1" = 1'-0"

GENERAL NOTES:

A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL UL CERTIFIED FIRESTOP SYSTEM UTILIZING STI EZ PATH SERIES. PROVIDE EZ PATH SLEEVES WHERE NECESSARY TO ROUTE CABLES THROUGH ALL FIRE AND SMOKE WALLS. MAINTAIN A MINIMUM OF 25% CAPACITY IN EACH SLEEVE AT THE CLOSE OF THE PROJECT.

B. THE LV CONTRACTOR SHALL COORDINATE WITH THE GRADY IT TEAM FOR EXACT RACK ARRANGEMENT AND LOCATION OF ALL DEVICES PRIOR TO ORDERING EQUIPMENT.

C. LV CONTRACTOR SHALL KEEP THE MDF AND IDF ROOMS ORGANIZED, FREE OF CLUTTER, DEBRIS AND DUST. A DAILY CLEANING SHALL BE PERFORMED OVER THE COURSE OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE FINAL CLEANING OF THE IT ROOMS.

D. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PATCHING BETWEEN FIBER, CAT 6, AND CAT 6A PATCH PANELS AND ACTIVE EQUIPMENT PROVIDED BY THE OWNER. THE CONTRACTOR MUST COORDINATE WITH THE OWNER'S IT PROJECT MANAGER TO DETERMINE THE EXACT PATCHING ARRANGEMENT BEFORE ORDERING PATCH CABLES.

KEY NOTES:

1. CONTRACTOR TO PROVIDE TIA/EIA STANDARD 2-POST 84"X 19" OPEN FRAME RELAY RACK. RACK TO BE PROVIDE WITH TWO-SIDED VERTICAL WIRE MANAGER. SEE DETAIL FOR TYPICAL RACK ELEVATION. RACK TO BE TYPICAL TO CPI #55053-715.
2. TELECOM CONTRACTOR TO PROVIDE AND INSTALL VERTICAL CABLE MANAGER, DOUBLE-SIDED, 84" HIGH X 6" WIDE X 24.5" DEEP. CABLE MANAGER TO BE TYPICAL TO CPI #35521-703.
3. TELECOM CONTRACTOR TO PROVIDE AND INSTALL 18" HORIZONTAL LADDER RACK INSTALLED AT 90° AFF. LADDER RACK TO BE PROVIDED WITH TURN-DOWN VANES ABOVE VERTICAL WIRE MANAGERS. COORDINATE FINAL LADDER RACK LAYOUT WITH OWNER, PRIOR TO ORDERING. LADDER RACK TO BE TYPICAL TO CPI #10250-718. PROVIDE ALL BUTT-SPLICE AND JUNCTION SPLICE KITS AT INTERSECTION AND TERMINATIONS.
4. GENERAL CONTRACTOR TO PROVIDE AND INSTALL 8' HIGH X 3/4" THICK FIRE RATED PLYWOOD BACKBOARDS INSTALLED AT 8" AFF ON ALL FOUR WALLS. BOTH SIDES AND ALL EDGES SHALL BE TREATED WITH TWO(2) COATS OF FIRE RETARDANT GREY PAINT. FIRE RATED STAMP SHALL BE LEFT UNPAINTED.
5. ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED 120 VAC, 20A, POWER RECEPTACLES INSIDE SECURITY CABINETS. COORDINATE EXACT PLACEMENT WITH EQUIPMENT LOCATION.
6. ELECTRICAL CONTRACTOR FURNISHED AND INSTALLED GROUNDING BUSBAR INSTALLED AT 84" AFF. REFER TO GROUNDING DETAILS FOR ADDITIONAL INFORMATION. BUSBAR TO BE TYPICAL TO CPI #10622 SERIES.
7. PROVIDE THREE(3) - 4" STI EZ-PATH 44+ SERIES SLEEVES WITH GANG PLATE FOR ROUTING HORIZONTAL LOW VOLTAGE CABLING AND LINE UP SLEEVES WITH HORIZONTAL LADDER RACK.
8. ELECTRICAL CONTRACTOR TO PROVIDE ONE(1) L6-30R, 30 AMP, 120 VAC POWER RECEPTACLE WITH NEMA TWIST LOCK CONNECTOR ON NORMAL POWER. MOUNT ON HORIZONTAL LADDER RACK ABOVE VERTICAL CABLE MANAGER.
9. ELECTRICAL CONTRACTOR TO PROVIDE ONE(1) 5-20R, 20 AMP, 120 VAC POWER RECEPTACLE MOUNT IN QUAD POWER RECEPTACLE ON NORMAL POWER. MOUNT ON HORIZONTAL LADDER RACK ABOVE VERTICAL CABLE MANAGER.

RACK ELEVATION IS FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO VERIFY QUANTITY OF RACK EQUIPMENT REQUIRED TO PROVIDE FULL COVERAGE.

LEGEND:

- FCP — FIBER OPTIC PATCH PANEL
- HORIZONTAL WIRE MANAGER (2RMU)
- 48-PORT CATEGORY 6 PATCH PANEL (2RMU)
- CAT 6A — 24-PORT CATEGORY 6A PATCH PANEL (2RMU)
- OWNER PROVIDED UPS

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GRADY HEALTH SYSTEM

GRADY ESTORIA URGENT CARE

Center of Memorial Drive & Estoria Street
Atlanta GA 30316

PROJECT NO: 25132.00

00	DD PACKAGE	12/18/2025

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SHEET TITLE

LARGE SCALES
-
COMMUNICATIONS 120

SHEET NUMBER

LV-301

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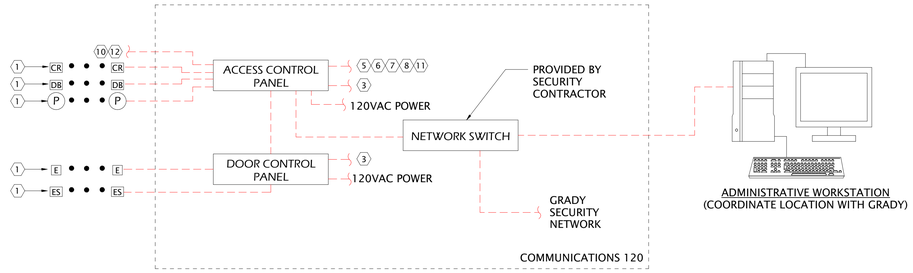


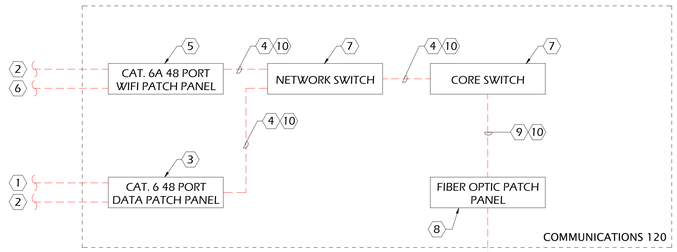
ADMINISTRATIVE WORKSTATION
(COORDINATE LOCATION WITH GRADY)

1 ONE-LINE DIAGRAM - ACCESS CONTROL SYSTEM

N.T.S.

KEY NOTES: (APPLIES TO THIS DETAIL ONLY)

1. VERIFY AND PROVIDE EXACT QUANTITY OF CARD READERS, DOOR POSITION SWITCH INPUTS, DOOR RELEASE BUTTONS, DURESS BUTTONS, AND MISCELLANEOUS SIGNAL INPUTS AS SHOWN ON CONTRACT DRAWINGS.
2. SECURITY CONTRACTOR TO INTERFACE WITH ELECTRIC AND ELECTROMAGNETIC LOCKS PER THE CONTRACT SPECIFICATIONS. CONTRACTOR TO INTEGRATE ALL CONTROLLED OUTPUTS INTO ACCESS CONTROL SYSTEM. VERIFY QUANTITY OF ALL CONTROLLED OUTPUTS WITH CONTRACT DRAWINGS.
3. SECURITY CONTRACTOR TO COORDINATE WITH FIRE ALARM CONTRACTOR FOR FIRE ALARM CONTACT CLOSURE FROM FIRE ALARM RELAY ACTIVATION UPON ALARM. CONNECT RELAY SIGNAL TO DOOR HARDWARE POWER SUPPLY FOR IMMEDIATE RELEASE OF ELECTROMAGNETIC LOCKS UPON ACTIVATION OF THE FIRE ALARM SIGNAL.
4. SECURITY CONTRACTOR TO INTERFACE WITH BUILDING SECURITY NETWORK BY PROVIDING CATEGORY 6 DATA CABLES BETWEEN ACCESS CONTROL PANELS AND OWNER PROVIDED NETWORK SWITCH.
5. PROVIDE BATTERY BACK-UP EQUIPMENT AT EACH READER INTERFACE PANEL TO SUPPORT THE ACS FOR A PERIOD OF 30 MINUTES.
6. CONTRACTOR TO UPDATE ACCESS CONTROL SOFTWARE CLIENT AND VMS/NVR CLIENT SOFTWARE ON UP TO THREE OWNER PROVIDED WORKSTATIONS. WORKSTATION LOCATIONS TO BE DETERMINED. VIDEO SURVEILLANCE AND ACCESS CONTROL SOFTWARE SHALL BOTH BE INSTALLED ON SAME PCS.
7. CONTRACTOR SHALL EXPAND EXISTING ACCESS CONTROL SYSTEM TO INCLUDE NEW DOORS AND DEVICES ADDED TO THE AREA. PROVIDE ALL REQUIRED LICENSES FOR COMPLETE AND FULLY FUNCTIONAL SYSTEM. COORDINATE WITH OWNER TO DETERMINE AND PROVIDE ALL REQUIRED SOFTWARE UPGRADES.
8. CONTRACTOR TO PROGRAM ACCESS CONTROL SERVER. CONTRACTOR TO INTEGRATE THE VIDEO SURVEILLANCE SYSTEM WITH THE ACCESS CONTROL SYSTEM. PROVIDE SERIAL OR DISCREET OUTPUT TO VIDEO SURVEILLANCE EQUIPMENT FOR AUTOMATIC CAMERA CALL-UP.
9. CONTRACTOR TO PROVIDE INTERCONNECTION OF ACCESS CONTROL LOCK OUTPUTS WITH LOCK POWER SUPPLY FOR INDIVIDUAL LOCK RELEASE.
10. SECURITY CONTRACTOR TO PROVIDE, INSTALL AND PROGRAM ACCESS CONTROL BADGING WORKSTATION. LOCATION TO BE CONFIRMED WITH OWNER. SEE SPECIFICATIONS FOR REQUIREMENTS.
11. COORDINATE WITH AUTO OPERATED DOOR HARDWARE VENDOR FOR OPERATION OF DOORS. ACCESS CONTROL HARDWARE SHALL RELEASE LOCKS PRIOR TO DOOR OPERATOR ACTIVATION.
12. INTEGRATE DOORS SERVED BY THE VIDEO INTERCOM SUBSTATION WITH ACCESS CONTROL SYSTEMS. PROVIDE 18/2 CABLE TO ACS SYSTEM IN TELECOM ROOM TO INTERCOM INTERFACE OUTPUT MODULE FOR REMOTE DOOR RELEASE.

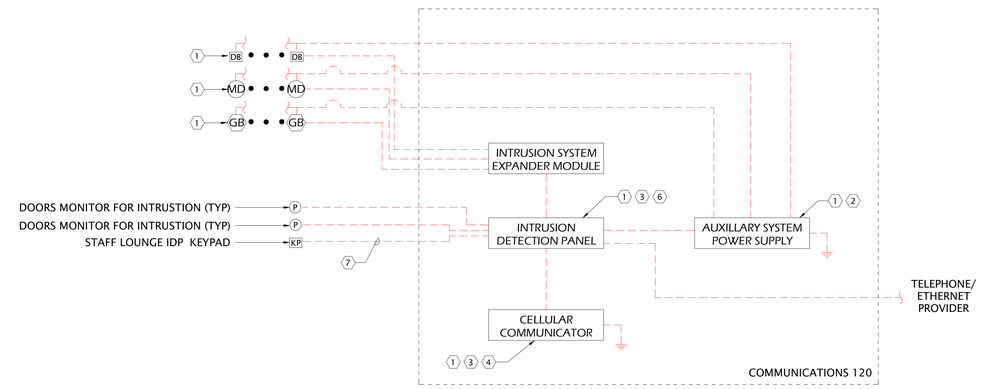


2 ONE-LINE DIAGRAM - DATA DISTRIBUTION

N.T.S.

KEY NOTES: (APPLIES TO THIS DETAIL ONLY)

1. FOR HORIZONTAL DATA CIRCUITS, PROVIDE 23 AWG/CATEGORY 6, 4 PR. CABLE FROM CATEGORY 6 PATCH PANEL IN TELECOM ROOMS TO STATION OUTLET LOCATIONS. SEE LEGEND AND FLOOR PLANS FOR REQUIREMENTS.
2. REFERENCE OUTLET DETAILS FOR TERMINATION REQUIREMENTS.
3. COPPER PATCH PANELS TO BE SIZED AS REQUIRED TO PROVIDE CAT. 6 LINK TO ALL STATIONS OUTLETS. PROVIDE SPARE CAPACITY AS REQUIRED IN SPECIFICATIONS. PATCH PANELS TO BE CATEGORY 6, 48 PORT, 1U, FLAT, HIGH DENSITY TYPE. PROVIDE 18" CABLE SLACK TO ALLOW FUTURE REPOSITIONING OF PATCH PANEL.
4. PROVIDE 2-METER CATEGORY 6/6A PATCH CORDS FOR EACH TERMINATED HORIZONTAL CAT 6/6A CIRCUIT.
5. COPPER PATCH PANELS TO BE SIZED AS REQUIRED TO PROVIDE CAT. 6A LINK TO ALL WIFI DATA OUTLETS. PROVIDE SPARE CAPACITY AS REQUIRED IN SPECIFICATIONS. PATCH PANELS TO BE CATEGORY 6A, 1U, HIGH DENSITY TYPE. PROVIDE 10' CABLE SLACK IN CLOSET TO ALLOW FUTURE REPOSITIONING OF PATCH PANEL.
6. FOR WIFI DATA OUTLETS, PROVIDE 23 AWG/CATEGORY 6A COMPLIANT/4 PR. STP CABLE FROM CATEGORY 6A PATCH PANEL IN TELECOM ROOMS TO ACCESS POINT OUTLET LOCATIONS. SEE LEGEND AND FLOOR PLANS FOR REQUIREMENTS.
7. OWNER PROVIDED AND INSTALLED NETWORK SWITCHES.
8. RACK MOUNT FIBER OPTIC CONNECTOR PANEL. ALL FIBER OPTIC STRANDS TO BE TERMINATED AND TESTED.
9. PROVIDE 2-METER SINGLE MODE PATCH CORDS FOR EACH TERMINATED FIBER OPTIC STRAND.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PATCHING BETWEEN FIBER, CAT 6, AND CAT 6A PATCH PANELS AND ACTIVE EQUIPMENT PROVIDED BY THE OWNER. THE CONTRACTOR MUST COORDINATE WITH THE OWNER'S IT PROJECT MANAGER TO DETERMINE THE EXACT PATCHING ARRANGEMENT BEFORE ORDERING PATCH CABLES.

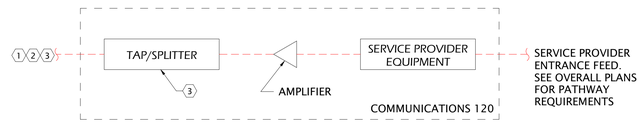


3 ONE-LINE DIAGRAM - INTRUSION DETECTION SYSTEM

N.T.S.

KEY NOTES: (APPLIES TO THIS DETAIL ONLY)

1. CONTRACTOR TO PROVIDE AND INSTALL ONE(1) CATEGORY 6 CABLE FOR EACH IP DEVICE.
2. CONTRACTOR TO PROVIDE AND INSTALL LOW LIGHT, WIDE DYNAMIC RANGE (WDR), COLOR, IP MEGAPIXEL CAMERAS FOR INTERIOR LOCATIONS. SEE FLOOR PLANS FOR LOCATIONS. SEE CAMERA SCHEDULE FOR MOUNTING REQUIREMENTS. SEE SPECIFICATIONS FOR CAMERA REQUIREMENTS.
3. CONTRACTOR TO PROVIDE AND INSTALL LOW LIGHT, WIDE DYNAMIC RANGE (WDR), COLOR, IP MEGAPIXEL CAMERAS WITH WEATHERPROOF HOUSINGS FOR EXTERIOR LOCATIONS. PROVIDE SURGE PROTECTION DEVICE AT CAMERA LOCATION TYPICAL TO DITEK DTK-MRJPOE. SEE FLOOR PLANS FOR LOCATIONS. SEE CAMERA SCHEDULE FOR MOUNTING REQUIREMENTS. PROVIDE TRANSIENT VOLTAGE SURGE PROTECTION FOR ALL EXTERIOR CAMERAS AT PATCH PANEL AND AT CAMERA LOCATION.
4. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED LICENSING AND STORAGE FOR NEW VIDEO SURVEILLANCE CAMERAS.
5. EACH CAMERA TO BE PROVIDED WITH 60 DAYS OF ON BOARD STORAGE. EACH CAMERA TO BE PROVIDED WITH A 5-YEAR LISCENSE. CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR START OF LISCENSE TO START AT MATERIAL COMPLETION, NOT DATE OF PURCHASE.
6. ALL CAMERA SETTINGS & VIEWS TO BE PROGRAMMED & CONFIGURED BY CONTRACTOR TO OWNER'S SATSIFACTION.
7. CONTRACTOR TO PROVIDE AND INSTALL ALL CATEGORY 6 PATCH CABLES.
8. CONTRACTOR TO COORDINATE WITH TELECOM CONTRACTOR FOR UTILIZATION OF DATA INFRASTRUCTURE TO ESTABLISH CONNECTION TO THE SECURITY NETWORK VLAN.
9. CONTRACTOR TO PROVIDE AND INSTALL POWER-OVER-ETHERNET SWITCH MOUNTED IN TELECOM RACK FOR VIDEO SURVEILLANCE SYSTEM.
10. CONTRACTOR TO INSTALL DITEK, POE, RACK MOUNTED SURGE PROTECTORS FOR ALL OUTDOOR CAMERAS TYPICAL TO DITEK DTK.RM12POE.
11. ALL EXTERIOR CAMERAS TO BE PROVIDED WITH TVSS DEVICES ON POWER & VIDEO SIGNAL ON CAMERA END TYPICAL TO DITEK MRJPOE DEVICES.



4 ONE-LINE DIAGRAM - TV DISTRIBUTION

N.T.S.

KEY NOTES: (APPLIES TO THIS DETAIL ONLY)

1. ALL HORIZONTAL CATV CABLES TO BE PLENUM RATED RG-6U QUAD SHIELD TYPE FOR CABLING DISTANCES UP TO 150'-0". FOR CABLING DISTANCES LONGER THAN 150'-0", PROVIDE PLENUM RATED RG-11U QUAD SHIELD TYPE CABLE. PROVIDE SELF TERMINATING F-CONNECTOR AT EACH DESIGNATED OUTLET. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
2. REFERENCE OUTLET DETAILS FOR TERMINATION REQUIREMENTS.
3. REFERENCE FLOOR PLAN DRAWINGS FOR CORRECT QUANTITY OF OUTLETS. CONFIRM INDIVIDUAL CABLE LENGTHS TO ALLOW PROPER BALANCING OF CATV SYSTEM.
4. CONTRACTOR TO PROVIDE NEW SPLITTERS AND TAPS AS REQUIRED BY NEW CATV OUTLETS. COORDINATE WITH FLOOR PLANS. REQUIREMENT IS TO MAINTAIN 0 TO 10 dBmV OF SIGNAL AT EACH OUTLET.

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PROJECT NO: 25132.00

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SHEET TITLE

ONE-LINE DIAGRAMS

SHEET NUMBER

LV-401

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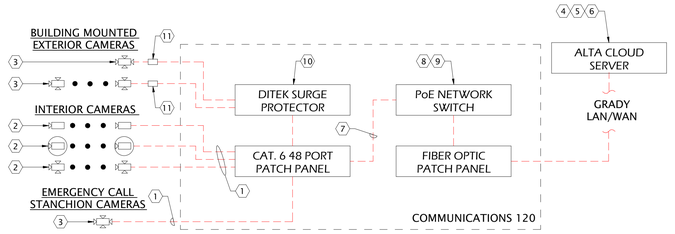

CAMERA SCHEDULE						
CAMERA #	CAMERA MODEL	CAMERA TYPE	LENS TYPE	MOUNTING REQUIREMENTS	FIELD OF VIEW	REFERENCE SHEET
C-1.01	DOME-W-5MP-60	5MP	3.6-10MM	INTERIOR CEILING MOUNTED	ENTRY VESTIBULE	LV-501
C-1.02	360-W-60	12MP	FISHEYE	INTERIOR CEILING MOUNTED	WAITING/FRONT DESK	LV-501
C-1.03	9C-H5A-3MH-6	3X3MP	3.3-5.7MM	INTERIOR CEILING MOUNTED	CHECKOUT/CORRIDOR	LV-501
C-1.04	360-W-60	12MP	FISHEYE	INTERIOR CEILING MOUNTED	STAFF STATION/MEDS ROOM DOOR	LV-501
C-1.05	360-W-60	12MP	FISHEYE	INTERIOR CEILING MOUNTED	MEDS ROOM	LV-501
C-1.07	9C-H5A-3MH-6	3X3MP	3.3-5.7MM	INTERIOR CEILING MOUNTED	STAFF ENTRANCE/CORRIDOR	LV-501
C-S.01	9C-H5A-3MH-6	3X3MP	3.3-5.7MM	EXTERIOR CORNER MOUNTED	EXTERIOR	LV-501
C-S.02	9C-H5A-3MH-6	3X3MP	3.3-5.7MM	EXTERIOR WALL MOUNTED	EXTERIOR	LV-501
C-S.03	12C-H5A-4MH-60	4X3MP	3.3-5.7MM	EXTERIOR CANOPY MOUNTED	VESTIBULE ENTRY/EXTERIOR	LV-501
C-S.04	9C-H5A-3MH-6	3X3MP	3.3-5.7MM	EXTERIOR CORNER MOUNTED	EXTERIOR	LV-501
C-S.05	12C-H5A-4MH-60	4X3MP	3.3-5.7MM	EMERGENCY CALL STATION MOUNTED	STAFF PARKING/EXTERIOR	LV-501

1 ONE-LINE DIAGRAM - VIDEO SURVEILLANCE SYSTEM

N.T.S.

KEY NOTES: (APPLIES TO THIS DETAIL ONLY)

1. CONTRACTOR TO PROVIDE AND INSTALL ONE(1) CATEGORY 6 CABLE FOR EACH IP DEVICE.
2. CONTRACTOR TO PROVIDE AND INSTALL LOW LIGHT, WIDE DYNAMIC RANGE (WDR), COLOR, IP MEGAPIXEL CAMERAS FOR INTERIOR LOCATIONS. SEE FLOOR PLANS FOR LOCATIONS. SEE CAMERA SCHEDULE FOR MOUNTING REQUIREMENTS. SEE SPECIFICATIONS FOR CAMERA REQUIREMENTS.
3. CONTRACTOR TO PROVIDE AND INSTALL LOW LIGHT, WIDE DYNAMIC RANGE (WDR), COLOR, IP MEGAPIXEL CAMERAS WITH WEATHERPROOF HOUSINGS FOR EXTERIOR LOCATIONS. PROVIDE SURGE PROTECTION DEVICE AT CAMERA LOCATION TYPICAL TO DITEK DTK-MRJPOE. SEE FLOOR PLANS FOR LOCATIONS. SEE CAMERA SCHEDULE FOR MOUNTING REQUIREMENTS. PROVIDE TRANSIENT VOLTAGE SURGE PROTECTION FOR ALL EXTERIOR CAMERAS AT PATCH PANEL AND AT CAMERA LOCATION.
4. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED LICENSING AND STORAGE FOR NEW VIDEO SURVEILLANCE CAMERAS.
5. EACH CAMERA TO BE PROVIDED WITH 60 DAYS OF ON BOARD STORAGE. EACH CAMERA TO BE PROVIDED WITH A 5-YEAR LISCENSE. CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR START OF LISCENSE TO START AT MATERIAL COMPLETION, NOT DATE OF PURCHASE.
6. ALL CAMERA SETTINGS & VIEWS TO BE PROGRAMMED & CONFIGURED BY CONTRACTOR TO OWNER'S SATSIFACTION.
7. CONTRACTOR TO PROVIDE AND INSTALL ALL CATEGORY 6 PATCH CABLES.
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9. CONTRACTOR TO PROVIDE AND INSTALL POWER-OVER-ETHERNET SWITCH MOUNTED IN TELECOM RACK FOR VIDEO SURVEILLANCE SYSTEM.
10. CONTRACTOR TO INSTALL DITEK, POE, RACK MOUNTED SURGE PROTECTORS FOR ALL OUTDOOR CAMERAS TYPICAL TO DITEK DTK.RM12POE.
11. ALL EXTERIOR CAMERAS TO BE PROVIDED WITH TVSS DEVICES ON POWER & VIDEO SIGNAL ON CAMERA END TYPICAL TO DITEK MRJPOE DEVICES.

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ONE-LINE DIAGRAMS

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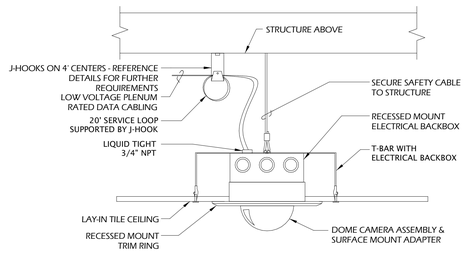

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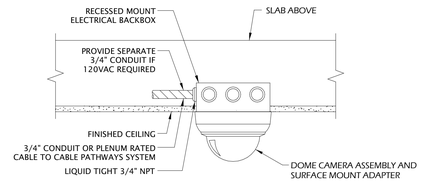

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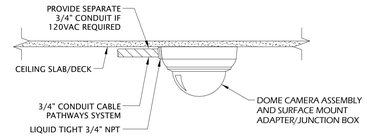

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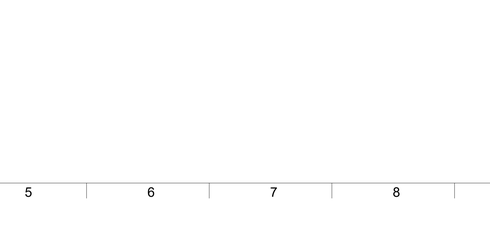

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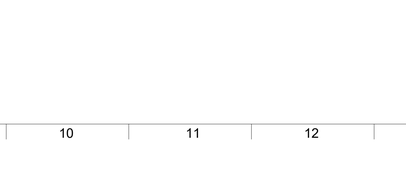

5 INTERIOR GYPSUM BOARD CEILING
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DETAILS - CAMERAS

SHEET NUMBER

LV-501

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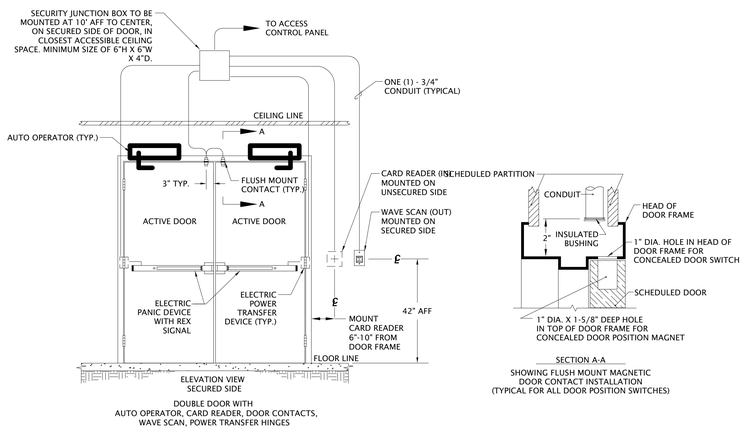

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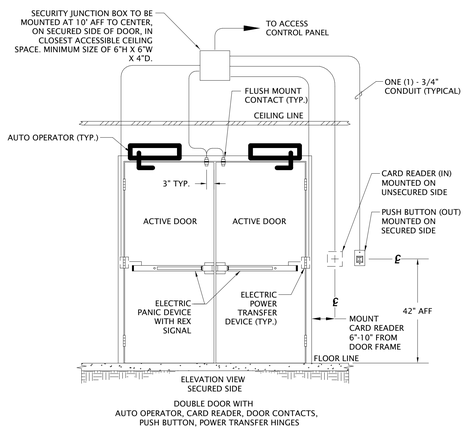

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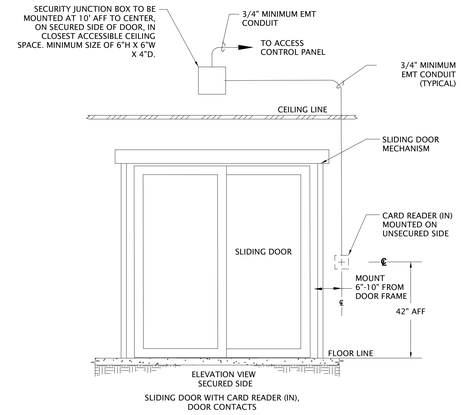

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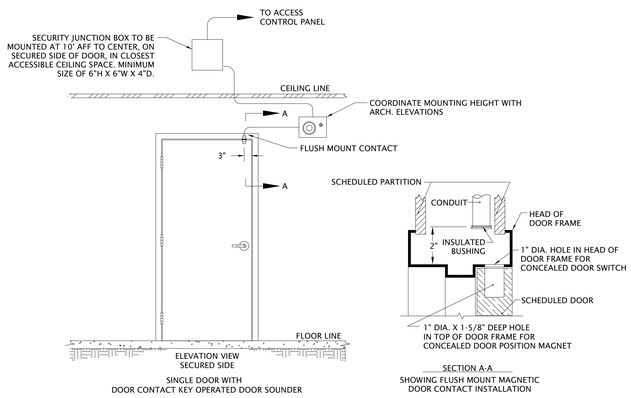

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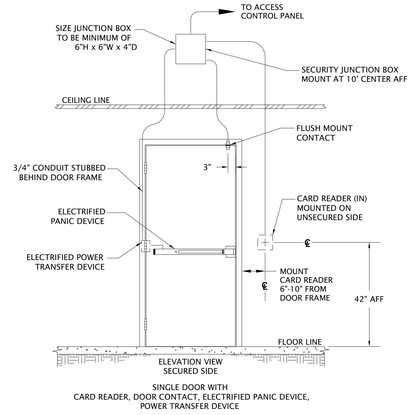

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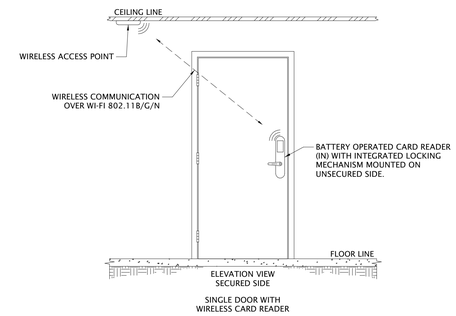

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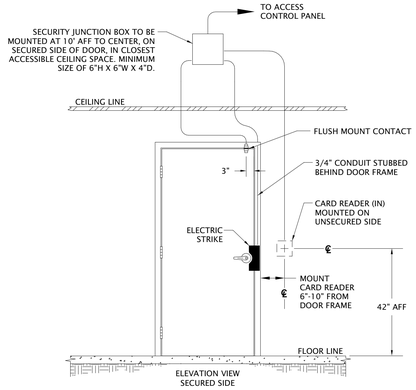

7 SINGLE DOOR DETAIL
NOT TO SCALE

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SHEET TITLE

DETAILS - DOORS

SHEET NUMBER

LV-502

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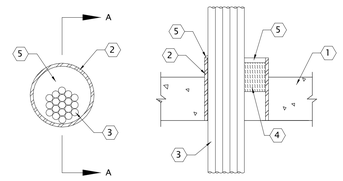


SECTION A-A

F RATINGS -2, 3 AND 4 HR (SEE ITEM 5)
T RATINGS - 0, 1/2 AND 2-3/4 HR (SEE ITEM 5)

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. (64 MM) OR 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. FLOOR MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*. MAX DIAM OF OPENING IS 6 IN. (152 MM). SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. SLEEVE - (OPTIONAL) - NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE, NOM 6 IN. (152 MM) DIAM (OR SMALLER) NO. 26 GA (0.022 IN. OR 0.56 MM THICK) SHEET STEEL SLEEVE WITH SQUARE ANCHOR FLANGE SPOT WELDED TO SLEEVE AT APPROX MID-HEIGHT OR NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PIPE SLEEVE CAST OR GROUTED INTO FLOOR OR WALL FLUSH WITH FLOOR OR WALL SURFACES. STEEL PIPE SLEEVE MAY BE INSTALLED TO PROJECT A MAX OF 2 IN. (51 MM) BEYOND THE FLOOR OR WALL SURFACES.

3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN SLEEVE TO BE MAX 45 PERCENT OF THE CROSS-SECTIONAL AREA OF THE SLEEVE. SEE ITEM 5 FOR SPECIFIC CABLE FILL REQUIREMENTS. TIGHT BUNDLE OF CABLES TO BE INSTALLED IN THE STEEL SLEEVE. THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 0 IN. (POINT CONTACT) TO A MAX OF 2 IN. IN 4 HR FIRE RATED ASSEMBLIES, THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 1/4 IN. (6 MM) TO A MAX OF 1 IN. (25 MM). CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:
   - A. MAX 400 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   - B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   - C. MAX 3/C NO. 2/0 AWG (OR SMALLER) COPPER CONDUCTOR PVC JACKETED ALUMINUM CLAD OR STEEL CLAD TECK 90 CABLE.
   - D. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   - E. MAX 1/C 1000 KCMIL (OR SMALLER) COPPER CONDUCTOR POWER CABLE WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   - F. MAX RG59/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   - G. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   - H. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.

3A. THROUGH PENETRATING PRODUCT* - (NOT SHOWN) - MAX 4/C NO. 2/0 AWG (OR SMALLER) STEEL OR ALUMINUM ARMORED CABLE+ OR METAL CLAD CABLE+ WITH COPPER OR ALUMINUM CONDUCTORS. DIAM OF CABLE BUNDLE (ITEM 3) INCLUDING ARMORED CABLE NOT TO EXCEED 4 IN. THROUGH PENETRATING PRODUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF A FLOOR OR WALL ASSEMBLY.

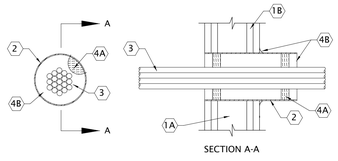
4. AFC CABLE SYSTEMS INC
   PACKING MATERIAL - MIN 2, 3 OR 4 IN. (51, 76 OR 102 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) DENSITY MINERAL-WOOL BATT INSULATION TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM FOR 2, 3 OR 4 HR FIRE RATED ASSEMBLIES, RESPECTIVELY . PACKING MATERIAL TO BE RECESSED FROM TOP EDGE OF SLEEVE OR FROM TOP SURFACE OF CONCRETE IN CAST CONCRETE FLOOR ASSEMBLIES TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE RECESSED FROM BOTH EDGES OF SLEEVE OR FROM BOTH SURFACES OF ASSEMBLY IN WALLS AND IN FLOOR CONSTRUCTED WITH HOLLOW-CORE PRECAST CONCRETE UNITS TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

5. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS FOR 2 AND 3 HR F RATINGS. MIN 3/4 IN. (19 MM) THICKNESS OF FILL MATERIAL APPLIED WITH THE ANNULUS FOR 4 HR F RATING. IN FLOORS, FILL MATERIAL TO BE INSTALLED FLUSH WITH TOP EDGE OF SLEEVE OR TOP SURFACE OF FLOOR. IN WALLS AND IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS, FILL MATERIAL TO BE INSTALLED FLUSH WITH BOTH ENDS OF SLEEVE OR BOTH SURFACES OF ASSEMBLY. F AND T RATINGS OF FIRESTOP SYSTEM ARE DEPENDENT UPON THE THROUGH OPENING SIZE, THICKNESS OF CONCRETE, SLEEVE TYPE AND PERCENT CABLE FILL, AS SHOWN IN THE FOLLOWING TABLE:

MAX OPENING DIAM	MIN CONCRETE THICKNESS	OPTIONAL SLEEVE TYPE	CABLE TYPE	PERCENT CABLE FILL	F RATING	T RATING
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	H	45	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	H	45	2 HR	0 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	A TO H, 3A	34	3 HR	1/2 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	H	45	3 HR	1/2 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	3 HR	2-3/4 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	4 HR	2-3/4 HR

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

1 FIRESTOP SYSTEM - C-AJ-3154
NOT TO SCALE



SECTION A-A

F RATINGS -1 AND 2 HR (SEE ITEM 1)
T RATING - 3/4 HR

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 X 4 IN. (51 X 102MM) LUMBER SPACED 16 IN. (406MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (76MM) WIDE AND SPACED MAX 14 IN. (610MM) OC.
   - B. GYPSUM BOARD - THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 4-1/2 IN. (114MM).

     THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. STEEL SLEEVE - NOM. 4 IN. (102MM) DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT), STEEL CONDUIT OR SCHEDULE 5 (OR HEAVER) STEEL PIPE SLEEVE FRICTION-FITTED INTO WALL ASSEMBLY. SLEEVE MAY BE INSTALLED FLUSH WITH OR EXTEND UP TO 18 IN. (46 CM) BEYOND ONE OR BOTH WALL SURFACES.

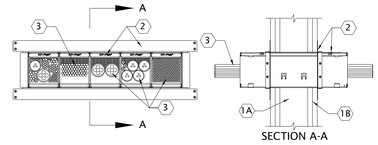
3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN STEEL SLEEVE TO BE MAX. 48 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE SLEEVE. CABLES TO BE BUNDLED AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE CABLES AND THE SLEEVE SHALL BE MIN. 0 IN. (POINT CONTACT) TO MAX. 1-1/2 IN. (38MM). ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLE MAY BE USED:
   - A. MAX 200 PAIR NO. AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   - B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   - C. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   - D. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   - E. MAX. RG/U (OR SMALLER) COAXIAL CABLE WITH FLOURINATED ETHYLENE INSULATION AND JACKETING.
   - F. MAX. 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   - G. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.
   - H. MAX. 4/C NO 2/0 ALUMINUM OR COPPER CONDUCTOR ALUMINUM OR STEEL METAL-CLAD# OR ARMORED-CLAD# CABLE.

4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   - A. PACKING MATERIAL - WHEN REQUIRED (SEE TABLE IN ITEM 3B), MIN. 1 IN. (25MM) THICKNESS OF MIN. 4.0 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO EACH END OF SLEEVE AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM EACH END OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   - B. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - FILL MATERIAL APPLIED TO APPROPRIATE THICKNESS WITHIN STEEL SLEEVE, FLUSH WITH EDGES OF STEEL SLEEVE ON BOTH SURFACES OF WALL. MIN. 1/2 IN. (13MM) DIAM. BEAD OF SEALANT OR "ROPE" OF PUTTY SHALL BE APPLIED AROUND THE PERIMETER OF THE SLEEVE ON EACH SIDE OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL. SEE TABLE BELOW FOR FILL MATERIAL THICKNESS REQUIREMENTS.

SEALANT OR PUTTY TYPE	THICKNESS	PACKING MATERIAL REQUIRED
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1/2 IN. (13 MM)	YES
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1 IN. (25 MM)	NO
SPECSEAL PUTTY	1 IN. (25 MM)	NO

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

2 FIRESTOP SYSTEM - W-L-3210
NOT TO SCALE



SECTION A-A

ANSI/UL1479 (ASTM E814)
F RATING - 1 OR 2 HR (SEE ITEM 1)
T RATINGS - 1, 1-1/2 AND 2 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 TO 2.3 CFM/DEVICE MODULE (SEE ITEM 2)
L RATING AT 400 F - LESS THAN 1 TO 2.3 CFM/DEVICE MODULE (SEE ITEM 2)

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED WITHIN THE INDIVIDUAL U300, V300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCORPORATE THE FOLLOWING CONSTRUCTION FEATURES:
   - A. STUDS - WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED MAX 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. WHEN TWO BANKS OF FIRESTOP DEVICE MODULES (ITEM 2) ARE INSTALLED, ADDITIONAL FRAMING MEMBERS SHALL BE USED TO COMPLETELY FRAME AROUND THE OPENING.
   - B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. OPENING IN GYPSUM BOARD TO BE MAX 1/4 IN. (6 MM) LARGER THAN WIDTH AND HEIGHT DIMENSIONS OF FIRESTOP DEVICE(S).

     THE HOURLY F AND FH RATINGS ARE DEPENDENT UPON THE HOURLY RATING OF THE WALL IN WHICH IT IS INSTALLED.

2. FIRESTOP DEVICE* - ONE OR TWO BANKS EACH CONSISTING OF ONE, TWO, THREE, FOUR OR FIVE FIRESTOP DEVICE MODULES GANGED TOGETHER AND SECURED BY MEANS OF INTEGRAL HOOK AND EYE WINDOW ATTACHMENT. EACH FIRESTOP DEVICE MODULE CONSISTS OF A 4 BY 4-5/8 BY 14 IN. (102 BY 118 BY 356 MM) LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. FIRESTOP DEVICE MODULES TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. THE SPACE BETWEEN THE FIRESTOP DEVICE MODULE(S) AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1/8 IN. (3.2 MM). FIRESTOP DEVICE MODULE(S) SECURED IN PLACE BY MEANS OF STEEL WALL BRACKETS INSTALLED WITH GASKET MATERIAL SUPPLIED WITH PRODUCT. STEEL WALL BRACKETS INSTALLED ON BOTH SIDES OF WALL AND SECURED TO OUTERMOST DEVICE MODULES BY MEANS OF STEEL SET SCREWS PROVIDED WITH BRACKETS. WALL BRACKETS SECURED TO EACH SIDE OF WALL THROUGH PREDRILLED HOLES IN BRACKETS BY MEANS OF NOM 1/8 IN. (3.2 MM) TYPE G STEEL SCREWS. EACH FIRESTOP DEVICE MODULE IS TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY. AS AN ALTERNATE WHEN ONE BANK OF FIRESTOP DEVICE MODULES ARE INSTALLED, THE MULTI-GANG STEEL WALL BRACKETS MAY BE INSTALLED DIRECTLY AGAINST THE STUDS FOR WALLS HAVING 24 IN. (610 MM) CENTER-TO-CENTER STUD SPACING PRIOR TO INSTALLATION OF THE GYPSUM BOARD LAYERS. THE STEEL WALL PLATES SHALL BE SECURED TO THE STUD BY MEANS OF STEEL SCREWS. AFTER INSTALLATION OF THE STEEL WALL PLATES AND FIRESTOP DEVICE MODULES, THE GYPSUM BOARD SHALL BE INSTALLED AS SPECIFIED IN THE INDIVIDUAL DESIGN WITH A MAXIMUM 1/8 IN. (3.2 MM) GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD. GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD MAY BE FILLED WITH GYPSUM JOINT COMPOUND OR FILL MATERIAL (ITEM 4). THE L RATINGS VARY ACCORDING TO WHETHER THE DEVICE MODULE IS BLANK (NO CABLES) OR LOADED (WITH CABLES) AND WHICH CABLE TYPE AND SIZE IS USED, AS TABULATED BELOW:

MAX VISUAL CABLE FILL	CABLE TYPE	L-RING CFM/DEVICE MODULE (L/S/DEVICE MODULE)	
		AMBIENT	400 °F (204°C)
0%	-	LESS THAN 1 (0.47)	LESS THAN 1 (0.47)
1-25%	3A-3I	1.5 (0.71)	1.5 (0.71)
26-50%	3A-3I	2.3 (1.1)	2.3 (1.1)
51-75%	3A-3I	2.3 (1.1)	2.3 (1.1)
76-100%	3A-3I	2.3 (1.1)	2.3 (1.1)

SPECIFIED TECHNOLOGIES INC - EZ PATH SERIES 44+ FIRE RATED PATHWAY

2A. FIRESTOP DEVICE* - EXTENSION MODULE - (OPTIONAL, NOT SHOWN) - MODULE ATTACHED TO ENDS OF FIRESTOP DEVICE (ITEM 2) TO INCREASE ITS LENGTH TO FACILITATE INSTALLATION IN THICKER WALLS. EACH MODULE CONSISTS OF A 4 BY 4-5/8 BY 6 IN. (102 BY 118 BY 152 MM) LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. EXTENSION MODULE TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. WHEN MODULE IS USED, FIRESTOP DEVICE (ITEM 2) AND EXTENSION MODULE SECURED IN PLACE BY MEANS OF STEEL PLATES INSTALLED WITH GASKETING MATERIAL SUPPLIED WITH PRODUCT. STEEL PLATES INSTALLED ON BOTH SIDES OF WALL AND SECURED TO EACH DEVICE OR EXTENSION MODULE BY MEANS OF STEEL SET SCREWS PROVIDED WITH PLATES. FIRESTOP DEVICE AND EXTENSION MODULE ASSEMBLY TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY.

SPECIFIED TECHNOLOGIES INC - EZ PATH SERIES 44+ EXTENSION

3. CABLES - CABLES MAY REPRESENT A 0 TO MAX 100 PERCENT VISUAL FILL WITHIN THE LOADING AREA FOR EACH FIRESTOP DEVICE MODULE. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   - A. MAX 400 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) OR PLENUM-RATED JACKETING & INSULATION.
   - B. MAX 750 KCMIL SINGLE COPPER CONDUCTOR POWER CABLE WITH XLPE JACKET AND INSULATION.
   - C. MAX 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
   - D. MAX 3/C NO. 2/0 AWG METAL CLAD OR ARMORED CABLE WITH STEEL OR ALUMINUM JACKET.
   - E. MAX 3/C NO. 8 AWG NM CABLE (ROMEX) WITH PVC INSULATION AND JACKET.
   - F. MAX FOUR PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC OR PLENUM RATED JACKETING AND INSULATION.
   - G. COAXIAL CABLE WITH FLUORINATED ETHYLENE OR PVC INSULATION AND JACKETING HAVING A MAX DIAM OF 5/8 IN. (16 MM).
   - H. OPTICAL FIBER CABLE WITH PVC OR POLYETHYLENE (PE) JACKET AND INSULATION AND HAVING A MAX DIAM OF 5/8 IN. (16 MM).
   - I. MAX RG6/U COAXIAL CABLE WITH FLUORINATED ETHYLENE, POLYETHYLENE (PE), PVC OR PLENUM RATED JACKETING AND INSULATION.

     FOR THE SERIES 44+ FIRESTOP DEVICE AND WHEN ITEM 3A, 3B, 3C, 3D, 3E OR 3I IS USED, THE T, FT AND FTH RATINGS ARE 1 HR. WHEN ITEM 3F OR 3G IS USED, THE T, FT AND FTH RATINGS ARE 1 AND 1-1/2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3H IS USED, THE T, FT AND FTH RATINGS ARE 1 AND 2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN DEVICE IS EMPTY, THE T, FT AND FTH RATINGS ARE 1 AND 1-1/2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN TWO BANKS OF FIRESTOP DEVICE MODULES ARE INSTALLED, THE T, FT AND FTH RATINGS ARE 1 HR.

4. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - (NOT SHOWN) - AS AN ALTERNATE TO GYPSUM JOINT COMPOUND, THE GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD MAY BE SEALED WITH FILL MATERIAL ON EACH SIDE OF THE WALL ASSEMBLY WHEN MULTI-GANG STEEL WALL BRACKETS ARE INSTALLED DIRECTLY AGAINST THE WOOD OR STEEL STUDS.

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT, SPECSEAL PUTTY

+BEARING THE UL LISTING MARK

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

3 FIRESTOP SYSTEM - W-L-3306
NOT TO SCALE

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EST. 2003
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GRADY HEALTH SYSTEM

GRADY ESTORIA URGENT CARE

Center of Memorial Drive & Estoria Street
Atlanta GA 30316

PROJECT NO: 25132.00

no	DD PACKAGE	12/18/2025

NOT ISSUED FOR CONSTRUCTION

SHEET TITLE

DETAILS - FIRESTOPPING

SHEET NUMBER

LV-503

12/17/2025 3:48:28 PM

GENERAL NOTES:

A. TELECOMMUNICATIONS BONDING BACKBONE (TBB) SHALL BE A CONTINUOUS CONDUCTOR AND SHALL BE SPLICED TO TELECOMMUNICATIONS GROUND BUSBARS WITH A SHORT BONDING CONDUCTOR. USE CONDUCTOR TABLE TO CALCULATE TBB SIZE. CONTRACTOR TO COMPLY WITH ALL REQUIREMENTS OF NASI/TIA-607B.

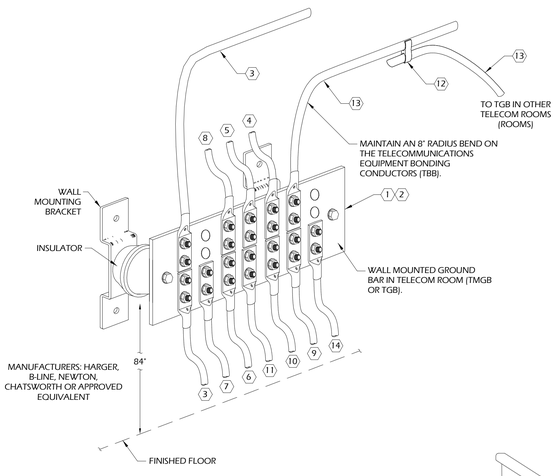
B. GROUNDING EQUALIZER (GE) SHALL BE A CONTINUOUS CONDUCTOR AND SHALL BE SPLICED TO TELECOMMUNICATIONS GROUND BUSBARS WITH A SHORT BONDING CONDUCTOR. USE CONDUCTOR TABLE TO CALCULATE GE SIZE. CONTRACTOR TO COMPLY WITH ALL REQUIREMENTS OF ANSI/TIA-607C.

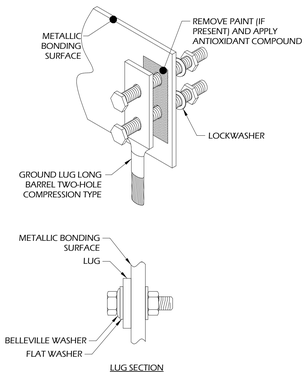
C. ALL GROUNDING LUGS SHALL BE TWO HOLE, NO EXCEPTIONS.

CONDUCTOR TABLE	
LINEAR LENGTH (FT.)	SIZE (AWG)
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
GREATER THAN 67	3/0

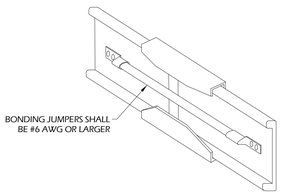
KEY NOTES:

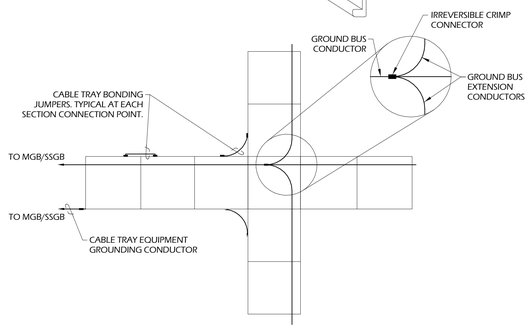
1. TELECOM CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB). TMGB SHALL BE PRE-DRILLED COPPER BUSBAR WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING. MINIMUM SIZING SHALL BE ¼" THICK X 4" WIDE X 24" LENGTH.
2. TELECOM CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). TGB SHALL BE PRE-DRILLED COPPER BUSBAR WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING. MINIMUM SIZING SHALL BE ¼" THICK X 4" WIDE X 18" LENGTH.
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING MAIN ELECTRICAL GROUNDING SYSTEM. USE CONDUCTOR TABLE TO CALCULATE BCT SIZE. NOTE: THE BCT AND THE TBB SHALL BE THE SAME SIZE BASED UPON THE LARGER CONDUCTOR.
4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO ELECTRICAL PANELS WITHIN THE MDF AND IDF ROOMS. USE CONDUCTOR TABLE TO CALCULATE BCT SIZE.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL BONDING CONDUCTOR TO THE BUILDING STEEL. USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE. SAME SIZE AS (TBB).
6. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) ROUTED ON LADDER RACK TO BOND EACH TELECOMMUNICATIONS RACK OR CABINET TO THE TMGB OR TGB. USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE. EACH TEBC SHALL BE A CONTINUOUS CONDUCTOR. SPLICE A #6AWG CONDUCTOR USING AN IRREVERSIBLE COMPRESSION OR EXOTHERMAL WELD FROM THE TEBC TO EACH RACK OR CABINET MOUNTED GROUNDING BUSBAR. DAISY CHANNING FROM ONE RACK OR CABINET TO ANOTHER IS NOT ACCEPTABLE.
7. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) FROM TMGB OR TGB TO EACH LEVEL OF THE LADDER RACK SYSTEM WITH A #6AWG CONDUCTOR. EACH SECTION OF THE LADDER RACK SYSTEM SHALL BE BONDED TOGETHER WITH CABLE RUNWAY STRAPS.
8. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) FROM TMGB OR TGB TO EACH EMT CONDUIT USED FOR BACKBONE CABLING WITH A #6 AWG CONDUCTOR. CONDUIT SHALL BE BONDED ON BOTH ENDS.
9. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) FROM TMGB OR TGB TO EACH METAL JACKET OF THE ARMORED FIBER OPTIC CABLE WITH A #6 AWG CONDUCTOR. METAL JACKET SHALL BE BONDED ON BOTH ENDS.
10. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) FROM TMGB OR TGB TO SUB FLOOR PEDESTAL SUPPORT SYSTEM USED FOR DISTRIBUTING HORIZONTAL CABLING UNDER THE FLOOR. USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE.
11. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL GROUNDING EQUALIZER (GE) CONDUCTOR. THE GE CONNECTS THE TELECOMMUNICATIONS GROUNDING BUSBAR(S) IN THE SAMES-FLOOR TELECOMMUNICATION ROOMS SERVED FROM DIFFERENT TBB CONDUCTORS. USE CONDUCTOR TABLE TO CALCULATE GE CONDUCTOR SIZE.
12. IRREVERSIBLE COMPRESSION TYPE CONNECTOR OR EXOTHERMIC WELD.
13. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL TELECOMMUNICATIONS BONDING BACKBONE CONDUCTOR (TBB) ROUTED IN CONDUIT TO BOND EACH TELECOMMUNICATIONS ROOM TO THE TMGB . USE CONDUCTOR TABLE TO CALCULATE CONDUCTOR SIZE. THE TBB SHALL BE A CONTINUOUS CONDUCTOR.

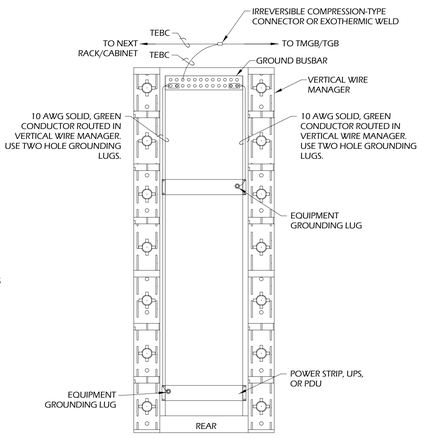




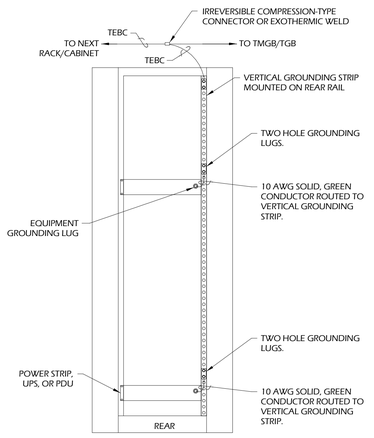
LUG SECTION







FREE STANDING RACK



FREE-STANDING EQUIPMENT CABINET

1 GROUNDING
NOT TO SCALE

CDH ARCHITECTURE
3330 Cumberland Blvd. SE
Suite 100
Atlanta, GA 30339
770.423.0016
www.cdhpartners.com

EST. 2003
J&A ENGINEERING CONSULTANTS
4994 LOWER ROSWELL RD
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MARIETTA, GEORGIA 30068
770.817.4220
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GRADY HEALTH SYSTEM

GRADY ESTORIA URGENT CARE

Center of Memorial Drive & Estoria Street
Atlanta GA 30316

GRADY

PROJECT NO: 25132.00

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DETAILS - GROUNDING

SHEET NUMBER

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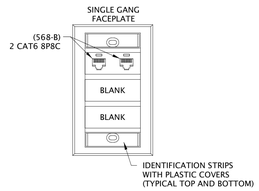
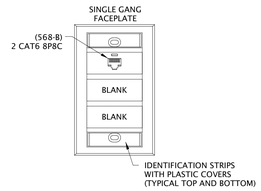
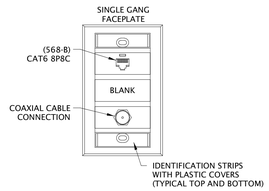


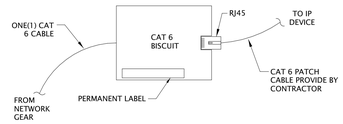
1 TYPICAL 2-PORT OUTLET
NOT TO SCALE



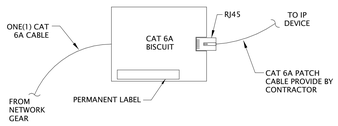
2 TYPICAL 1-PORT OUTLET
NOT TO SCALE



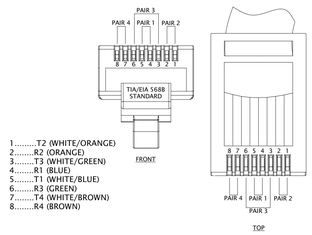
3 TYPICAL DISPLAY OUTLET
NOT TO SCALE



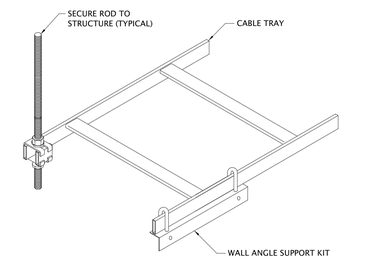
4 VIDEO SURVEILLANCE CAMERA TYPICAL ETHERNET BISCUIT
NOT TO SCALE



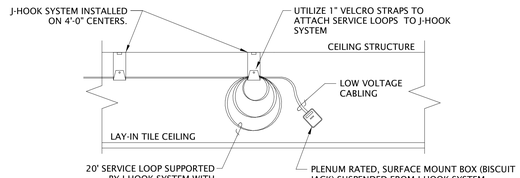
5 WIRELESS ACCESS POINT TYPICAL ETHERNET BISCUIT
NOT TO SCALE



6 RJ45 JACK TERMINATION
NOT TO SCALE



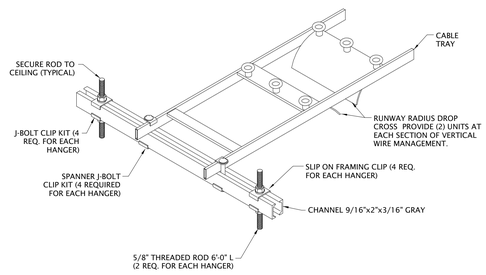
7 WALL MOUNT CABLE TRAY INSTALLATION
NOT TO SCALE



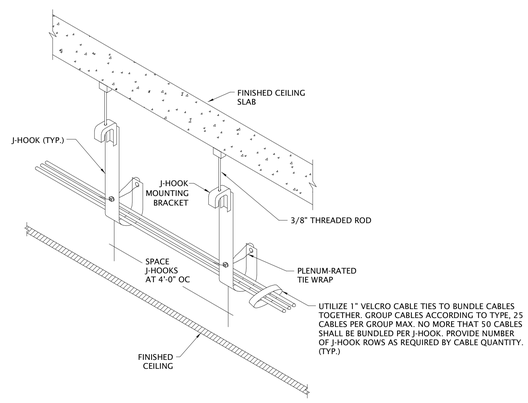
GENERAL NOTES:

A. BISCUIT JACK SHALL BE PLENUM RATED, DUAL PORT, CATEGORY 6A TYPE FOR ALL WIRELESS ACCESS POINT LOCATIONS.
B. BISCUIT JACK SHALL BE PLENUM RATED, SINGLE PORT, CATEGORY 6A TYPE FOR ALL VIDEO SURVEILLANCE CAMERA LOCATIONS.

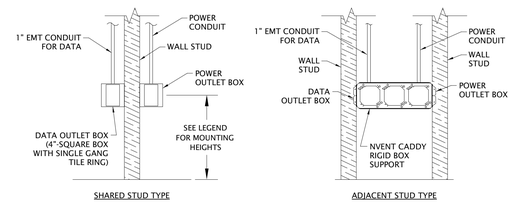
8 SUSPENDED BISCUIT JACK
NOT TO SCALE



9 CEILING MOUNT CABLE TRAY INSTALLATION
NOT TO SCALE



10 ACCESSIBLE CEILING CABLE INSTALLATION DETAIL
NOT TO SCALE



GENERAL NOTES:

A. ALL DATA OUTLETS TO BE COORDINATED WITH ELECTRICAL POWER LOCATIONS. DATA OUTLETS SHALL BE MOUNTED ADJACENT TO POWER RECEPTACLES AT SAME HEIGHT.
B. DATA OUTLET SHALL EITHER BE MOUNTED ON OPPOSITE SIDE OF SHARED STUD AS POWER OR DATA SHALL BE MOUNTED ON ADJACENT STUD TO POWER IN SAME WALL CAVITY.
C. TYPICAL DATA OUTLET HEIGHT SHALL BE 18", UNLESS OTHERWISE NOTED.COORDINATE EXACT MOUNTING HEIGHTS AND ORIENTATION WITH ELECTRICAL AND ARCHITECTURAL PLAN.
D. CONTRACTOR TO VERIFY ALL DATA OUTLETS TO BE PROVIDED WITH ADJACENT POWER RECEPTACLE. SUBMIT RFI IF CONDITION DOES NOT EXIST.

11 TYPICAL DATA OUTLET INSTALLATION REQUIREMENTS
NOT TO SCALE

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3330 Cumberland Blvd. SE
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