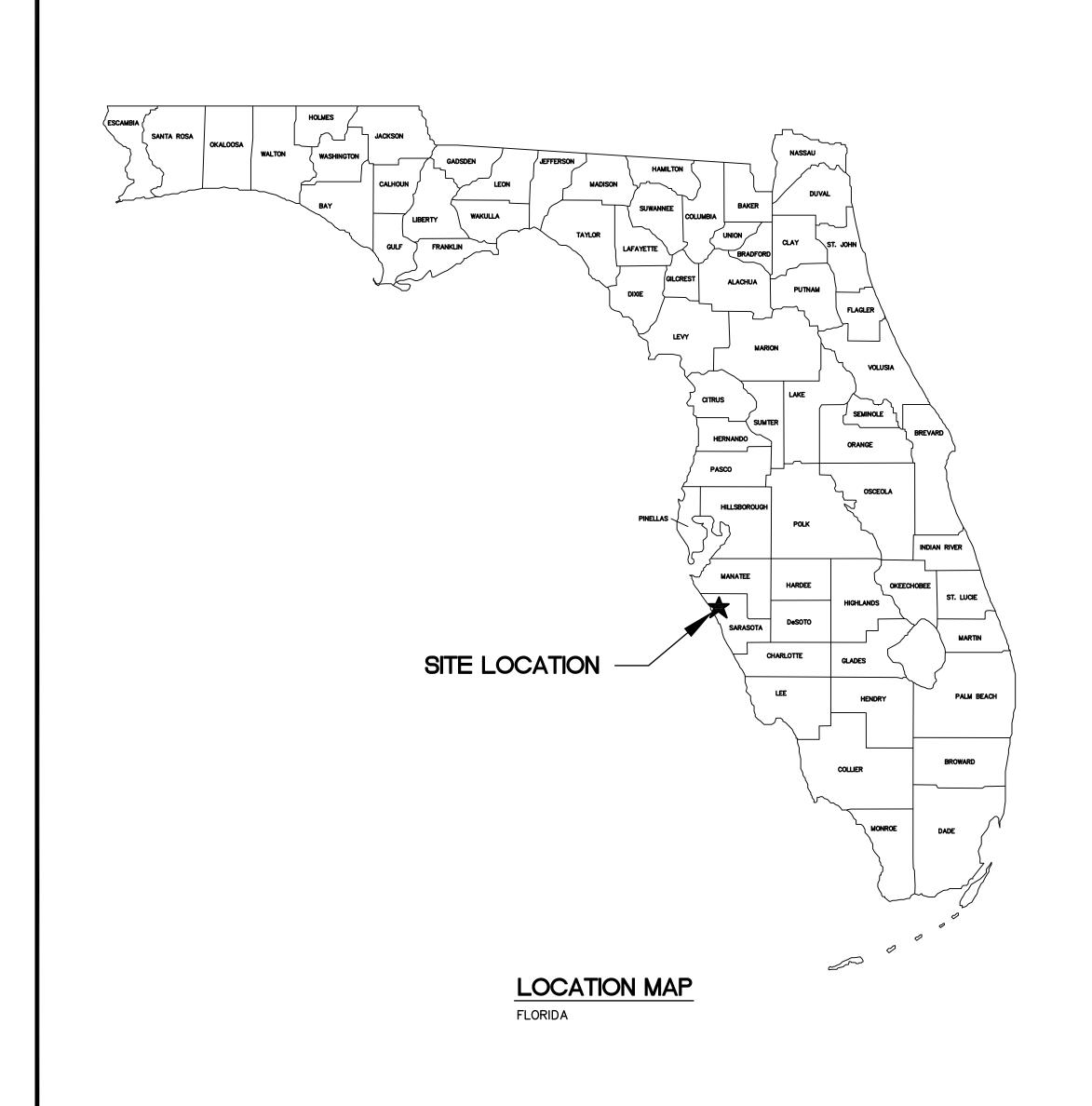
MANATEE COUNTY CENTRAL LIBRARY ELEVATOR CONTROL PLANS

1301 1ST. AVE W.
BRADENTON, FLORIDA 34205
WORK ASSIGNMENT #16

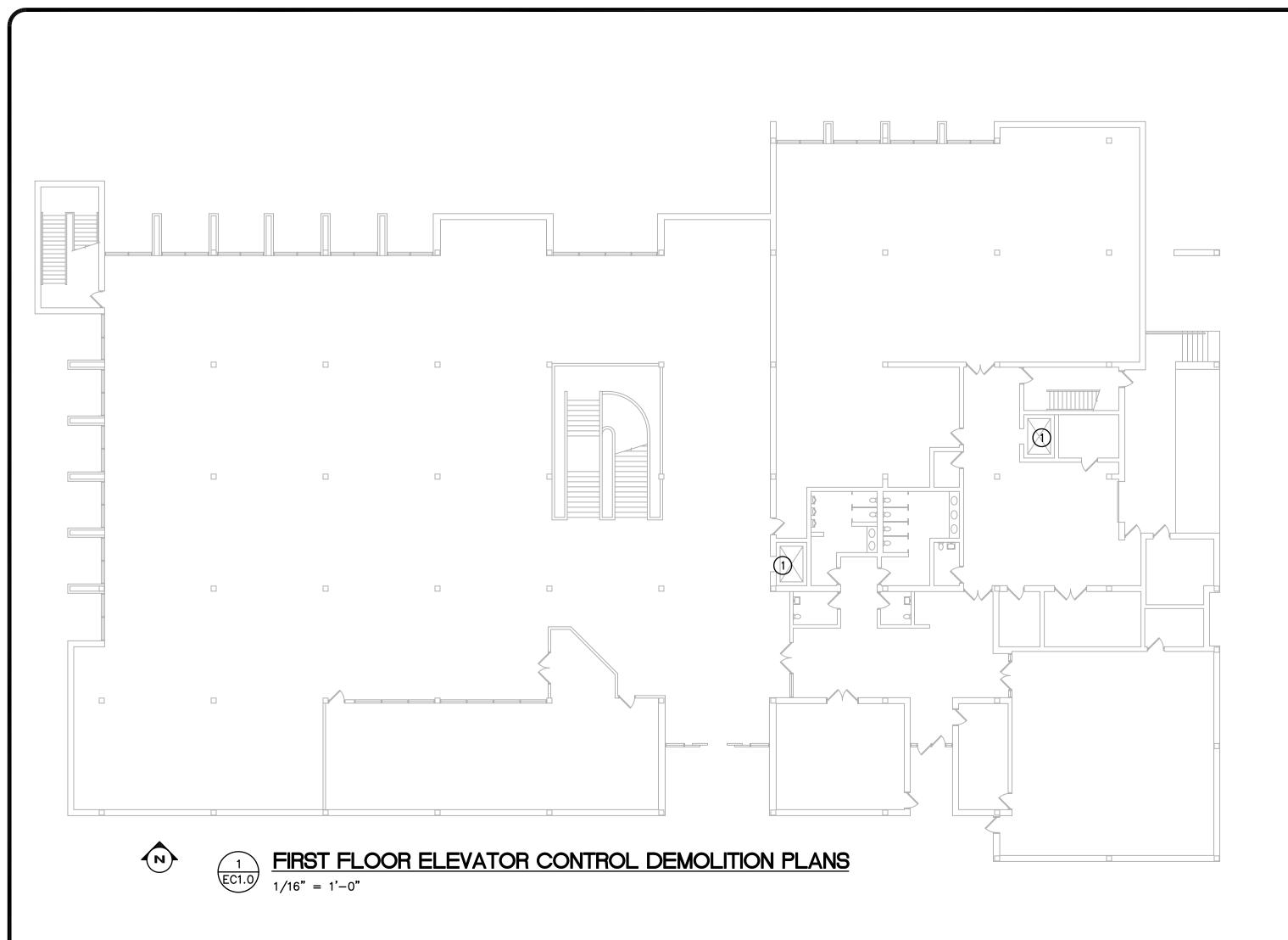




	SHEET SCHEDULE
SHEET	<u>DESCRIPTION</u>
COVER	PROJECT NAME, LOCATION and SITE MAPS, SHEET SCHEDULE
EC1.0	ELEVATOR CONTROLS DEMOLITION PLANS AND LEGEND
EC2.0	ELEVATOR CONTROLS PROPOSED FLOOR PLANS AND SCHEDULES
EC3.0	ELEVATOR CONTROLS SPECIFICATIONS
EC4.0	ELEVATOR ONE-LINE RISER DIAGRAM AND PANELS

To the best of the engineer's knowledge, said plans and specifications comply with the applicable building codes and the applicable minimum fire safety standards as determined in accordance with Chapters 553 and 633, Florida Statutes.





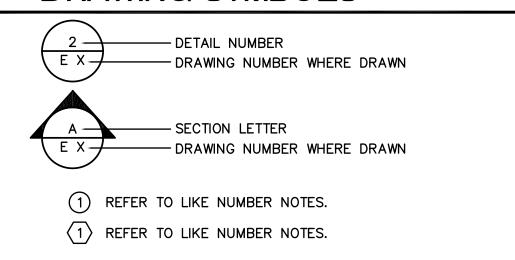
GENERAL NOTES:

THERE ARE TWO ELEVATORS THAT WILL BE RENOVATED IN THIS PROJECT AS LOCATED AND DETAILED ON THE DEMOLITION AND PROPOSED ELEVATOR PLANS. THE UNITS ARE TWO FLOOR/LANDING WITH OPENING WESTINGHOUSE UNITS. THE ELEVATOR HAS AN APPROXIMATE SPEED OF 100FPM AND AN APPROXIMATE 2500 LB WEIGHT CAPACITY. ALL INFORMATION SHOULD BE FIELD VERIFIED PRIOR TO BIDDING. THE ELEVATOR CONTRACTOR SHALL COORDINATE ALL REQUIRED ELECTRICAL, FIRE ALARM, AND CONTROLS CONNECTIONS WITH APPROPRIATE CONTRACTORS PRIOR TO INSTALLATION AND BIDDING. THE FINAL INSTALLATION AND PROVISION OF CONTROLS, ELECTRICAL, AND FIRE ALARM CONNECTIONS SHALL BE MADE BY THE ELEVATOR CONTRACTOR. THE ELECTRICAL SYSTEMS FOR THE ELEVATOR SHALL BE REMOVED FROM THE ELEVATOR BACK TO THE SOURCE. NEW WIRING AND A NEW FIRE ALARM CONTROL CONNECTION SHALL BE INSTALLED WITH THE NEW SYSTEM TO COORDINATE AS REQUIRED BY CODE (NFPA 72)

WITH THE FIRE ALARM SYSTEM AND EMERGENCY OVERRIDE

DRAWING SYMBOLS

CONTROLS.



ELECTRICAL SYMBOLS

 $\frac{x A}{x A T}$ DISCONNECT SWITCH - FUSED "X"= RATING, "Y" = FUSE SIZE

A-XX CONDUCTORS OR CABLES IN CONDUIT

GROUND

"F50" DENOTES THE FEEDER SIZE

"A-XX" DENOTES PANEL AND CIRCUIT #

DISTRIBUTION OR MOTOR CONTROL PANEL — VERIFY LOCATION AND SIZE OF BREAKERS

FACP FIRE ALARM CONTROL PANEL

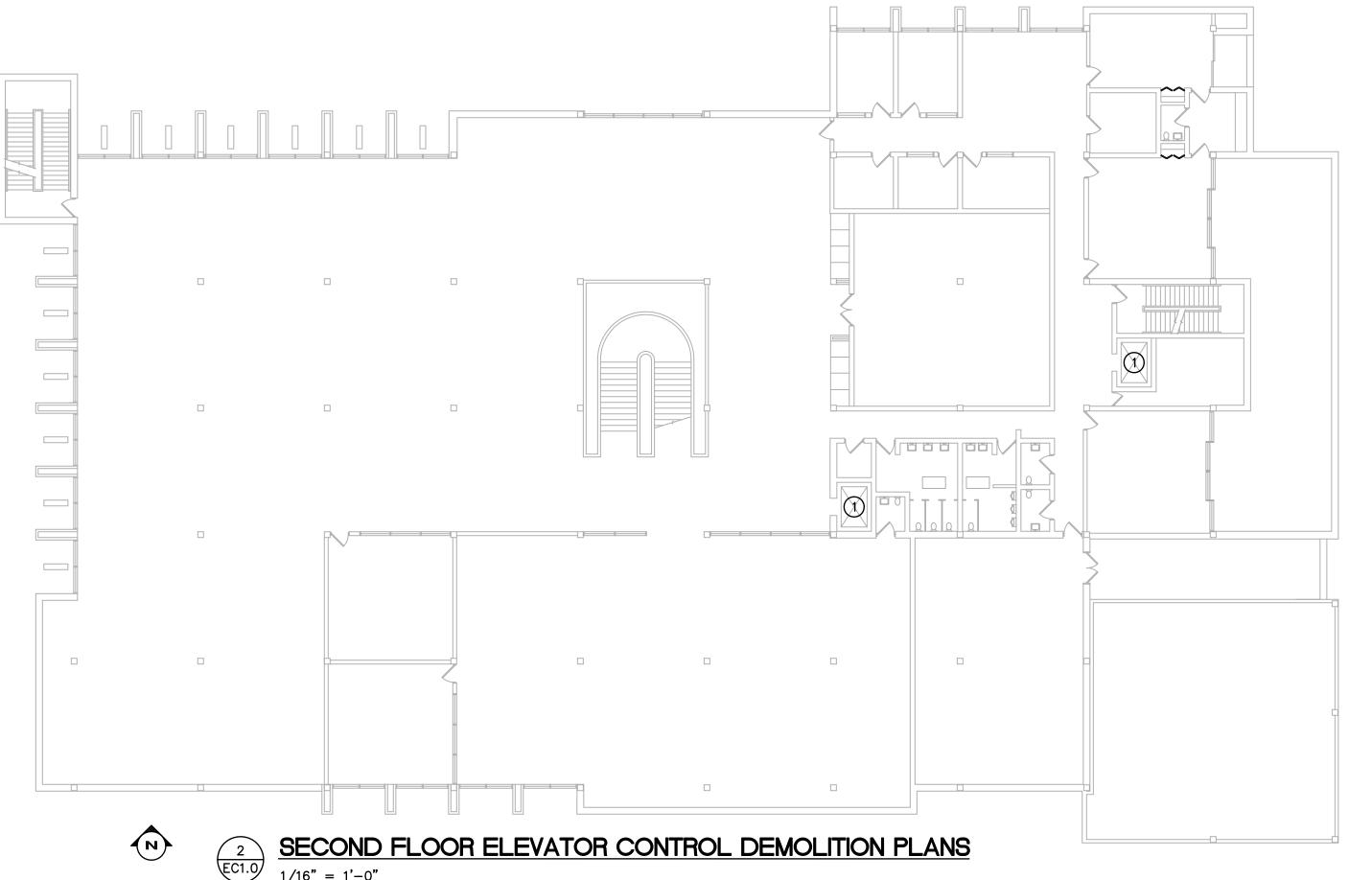
DEMOLITION PLAN NOTES:

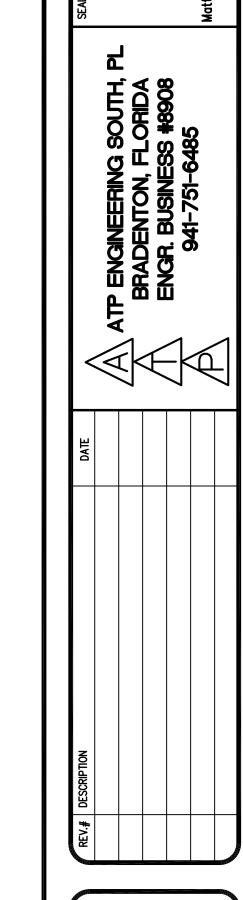
REMOVAL OF CONTROLS, EXISTING CAR FIXTURES, CORRIDOR FIXTURES, DOOR OPERATOR TRACKS/HANGERS, POWER UNIT, AND CAB UNIT(IF REQUESTED BY THE OWNER'S REPRESENTATIVE).

GENERAL NOTES (APPLY TO ALL DRAWINGS):

- 1. THE WORK INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND DEVICES FOR A COMPLETE SYSTEM IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION FOR THE OWNER'S USE. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS. INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND CONFORM TO THE NEC (NFPA 70 & 72) AND ALL APPLICABLE CODES, AND BE COMPLETED BY A QUALIFIED, EXPERIENCED, LICENSED ELECTRICAL CONTRACTOR.
- 2. THE ENGINEER HAS MADE AN EFFORT TO COORDINATE WORK WITH OTHER TRADES AND IDENTIFY ANY AND ALL CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FIELD WORK BETWEEN TRADES AND TO IDENTIFY FIELD CONDITIONS PRIOR TO INSTALLATION AND REPORT ANY CONFLICTS TO THE ENGINEER.
- 3. FOR BIDDING PURPOSES, WHEN A CONFLICT OCCURS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE ITEMS OF GREATER QUANTITY AND/OR COST SHALL BE PROVIDED. ANY SUCH CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- 4. CONTRACTOR SHALL VERIFY THE LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY OTHER TRADES PRIOR TO INSTALLATION. COORDINATE ROUGH—IN INSTALLATION WITH EQUIPMENT DETAILS.
- 5. ALL OPENINGS IN FIRE AND SMOKE PARTITIONS SHALL BE SEALED AS REQUIRED BY THE NEC/ FLORIDA BUILDING CODE. PROVIDE UL LISTED COMPOUND TO MATCH PARTITION RATING.
- 6. DO NOT SCALE DRAWINGS. VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION FOR EXACT DEVICE / EQUIPMENT LOCATION.
- 7. DEMOLITION WORK: PROVIDE DEMOLITION AND REMOVAL WORK AS INDICATED OR NEEDED. EQUIPMENT THAT IS TO BE REMOVED INCLUDES ALL ASSOCIATED WIRING, BOXES AND CONDUIT BACK TO SOURCE. CLOSE ALL UNUSED OPENINGS IN JUNCTION BOXES THAT REMAIN WITH SUITABLE PLUG OR COVER. WHEN REMOVING OR RELOCATING LIGHT FIXTURES OR OTHER DEVICES, FIELD VERIFY REMAINING DEVICES IN THE SAME CIRCUIT AND RECONNECT FOR CONTINUED SERVICE. EXISTING ELECTRICAL WORK INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REROUTED TO SUIT FINAL INSTALLATION. CUTTING AND PATCHING REQUIRED SHALL BE DONE TO RESTORE AREAS TO ORIGINAL CONDITION.
- 8. CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUT SHEETS AT TIME OF APPLICATION IF REQUESTED.

THESE DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS.
THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY
BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
NOTIFY THIS ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND.





MANATEE COUNTY CENTRAL LIBRARY
ELEVATOR RENOVATIONS
1301 1ST AVE W.

ELEVATOR CONTROLS
DEMOLITION
FLOOR PLANS
AND LEGEND

FILE:MC CENTRAL LIBRARY

JOB NO.: 2014.38

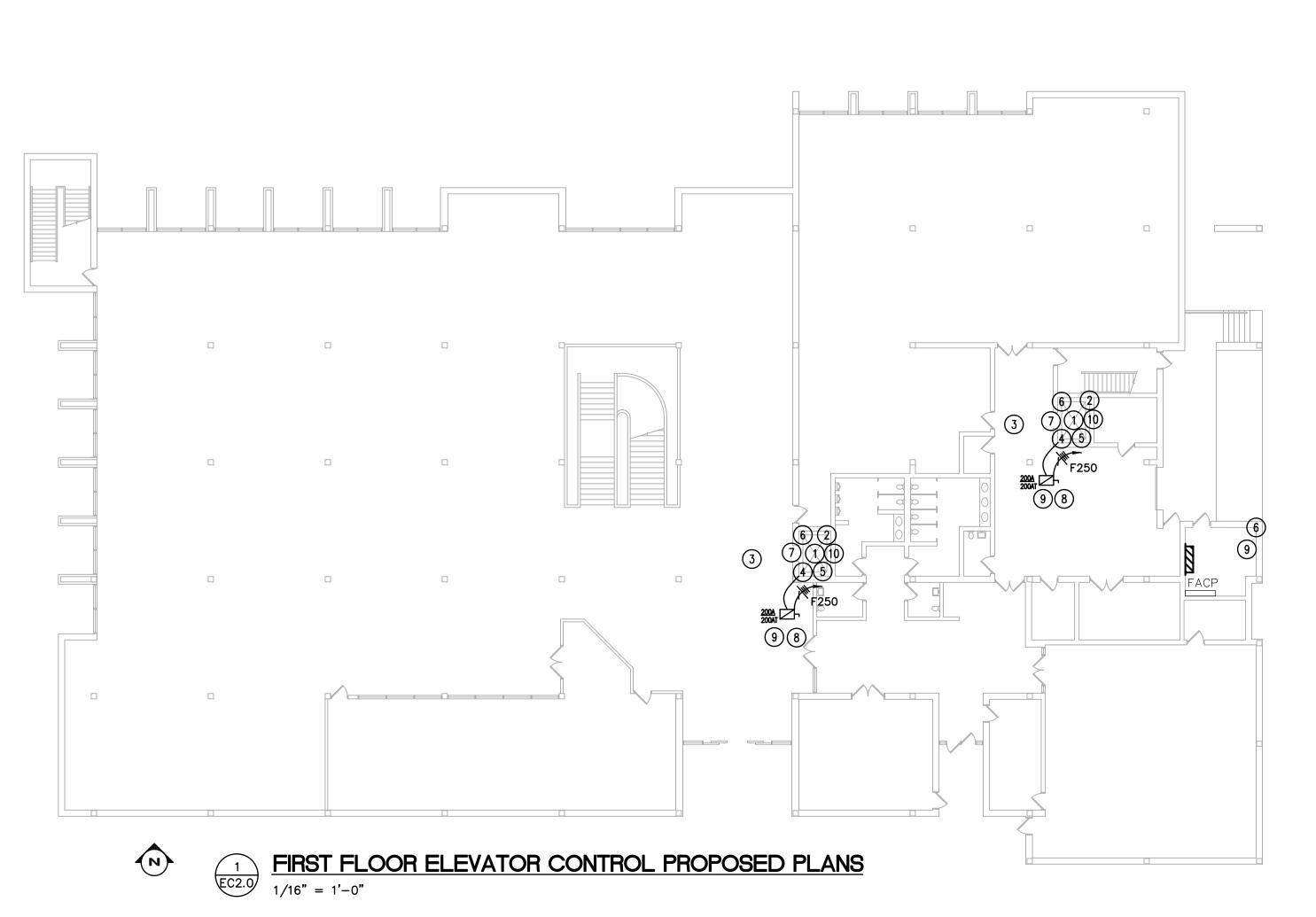
DATE: 09/22/2014

PLOT SIZE: 24"X36"

DRAWN BY: CMD

CHECKED BY: JDC/MC

EC1.0



PLAN NOTES:

- 1 PROVIDE AND INSTALL A NEW MICROPROCESSOR CONTROL UNIT.
- 2 PROVIDE AND INSTALL NEW ADA COMPLIANT CAR FIXTURES, COORDINATE FINISHES WITH THE OWNER'S REPRESENTATIVE.
- PROVIDE AND INSTALL NEW
 CORRIDOR FIXTURES WITH NEW ADA
 COMPLIANT FIXTURES, COORDINATE
 FINISHES WITH THE OWNER'S
 REPRESENTATIVE.
- PROVIDE AND INSTALL A NEW DOOR OPERATORS.
- 5 PROVIDE AND INSTALL NEW DOOR TRACKS AND HANGERS.
- 6 PROVIDE AND INSTALL A NEW POWER UNIT.
- 7 PROVIDE AND INSTALL NEW CAB INTERIORS, COORDINATE WITH OWNER'S REPRESENTATIVE.
- A NEW COOPER BUSSMAN
 QUICKSPEC POWER MODULE SWITCH
 TO MEET NEC, NFPA 72 AND
 SELECTIVE COORDINATION
 SHUTDOWN AND SHUNT TRIP
 MONITORING. THIS COOPER
 BUSSMANN DEVICE INCLUDES A

FIRE SAFETY SIGNAL INTERFACE.

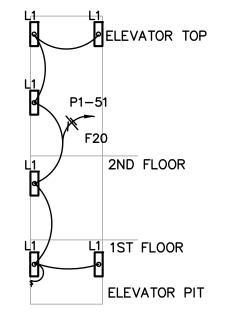
- THE ELECTRICAL INFORMATION
 SHOULD BE VERIFIED PRIOR TO
 BIDDING. THE ELECTRICAL
 CONNECTIONS WILL CHANGE
 DEPENDENT UPON CONTROLS AND
 THE POWER UNIT. FIELD VERIFY
 CIRCUIT AND PANEL LOCATIONS.
 EXACT INFORMATION HAS NOT
- PROVIDE EMERGENCY LIGHTING FOR THE SHAFTS. EACH LIGHT SHALL PROVIDE AT LEAST 1200 LUMENS PER FIXTURE 120V.

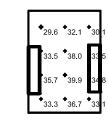
BEEN PROVIDED AT THIS TIME.

	FEEDER AND BRANCH CIRCUIT SCHEDULE													
FEEDER/BRANCH		ONDUCTOR I,&THWN-2	SETS OF	CONDUIT SIZE AND QUANTITY [QUANTITY OF CONDUIT IS 1, UNLESS NOTED IN ()]										
DESIGNATION	PHASE & NEUTRAL	EQUIPMENT GROUND	CONDUCTORS	1P, 1N, 1G, 2P, 1G	2P, 1N, 1G, 3P, 1G	3P, 1N, 1G	3P, 2N, 1G	3P, 3N, 1G	3P, 1N, 2G					
F20	12	12	1	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"					
F30	10	10	1	3/4"	3/4"	3/4"	1"	1"	1"					
F40-50	8	10	1	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"					
F60	6	10	1	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"					
F70-F80	4	8	1	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"					
F90-F100	3	8	1	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	1 1/2"					
F110	2	6	1	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"					
F125	1	6	1	1 1/2"	2"	2"	2"	2 1/2"	2"					
F150	1/0	6	1	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"					
F175	2/0	6	1	2"	2"	2 1/2"	2 1/2"	3"	2 1/2"					
F200	3/0	6	1	2"	2 1/2"	2 1/2"	3"	3"	3"					
F225	4/0	4	1	2"	2 1/2"	3"	3"	3"	3"					
F250	250	4	1	2 1/2"	3"	3"	3 1/2"	3 1/2"	3-1/2"					
F300	350	4	1	3"	3"	3 1/2"	3 1/2"	4"	3 1/2"					
F350	2/0	3	2	(2) 2"	(2) 2 1/2"	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 2 1/2"					
F400	3/0	3	2	(2) 2"	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 3"	(2) 2 1/2"					
F450	4/0	2	2	(2) 2"	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 3"	(2) 3"					

NOTES:

1. DO NOT COMBINE NEUTRAL CONDUCTORS FOR ALL CIRCUITS. USE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL CIRCUITS.





PROPOSED EMERGENCY ILLUMINATION PLANS

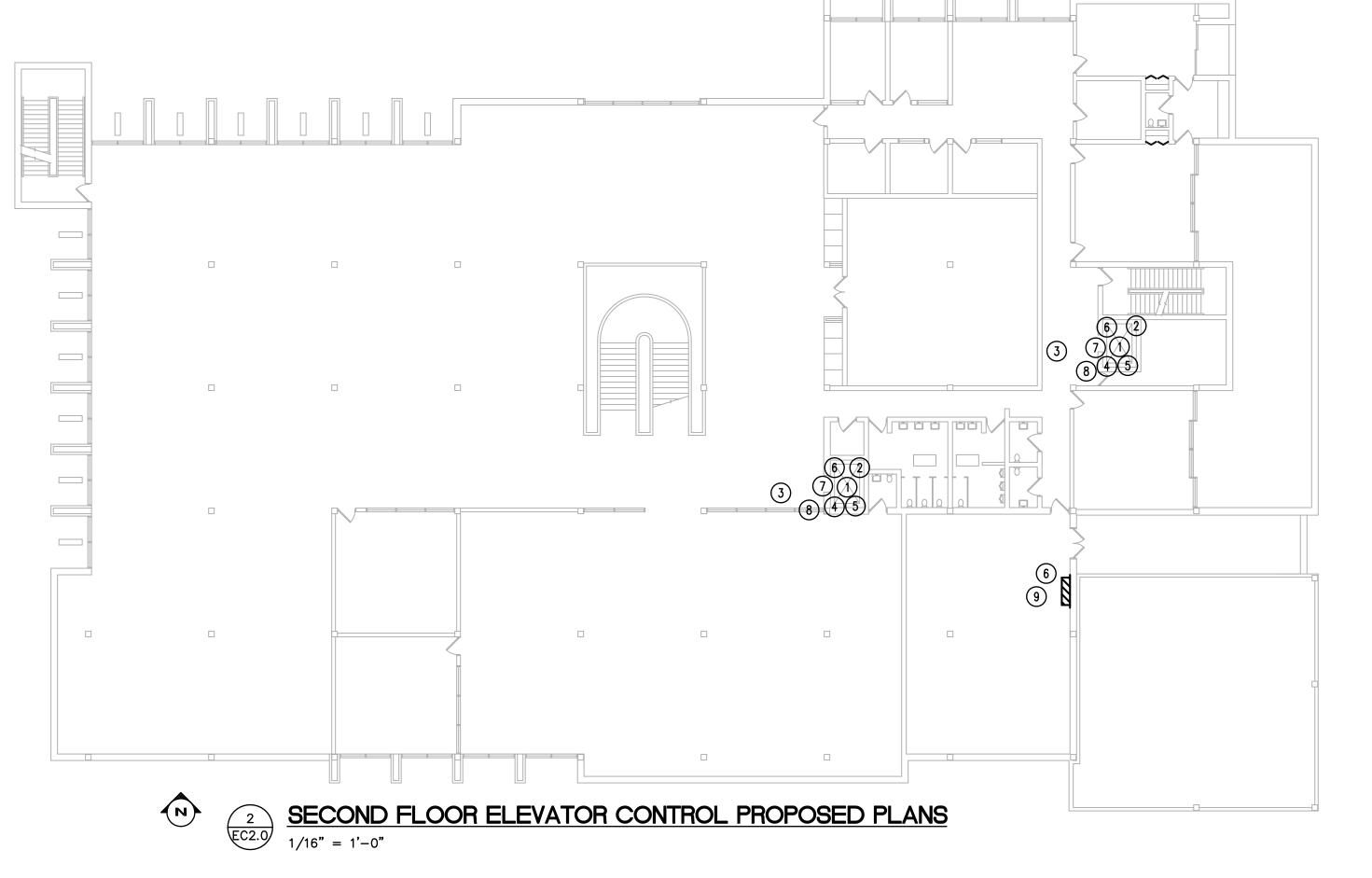
NOTES: FIELD LOCATE LUMINAIRES IN SHAFT. PROVIDE AT APPROXIMATE SPACING AS

SHOWN. MINIMUM FOOT CANDLES PER

FLOOR IS 10FC.

NOTES:

1. PROVIDE AND INSTALL AN EMERGENCY LIGHTING SYSTEM IN THE ELEVATOR. THE LIGHTS SHALL BE A 1'X4' LED LIGHT WITH A 1200 LUMEN MINIMUM BATTERY PACK LIKE: LITHONIA ZL1D, 48", 3000 LUMENS, 120V; HE WILLIAMS AX2W, 48", 3300 LUMENS, 120V; OR LITE—CONTROL 3L—W—D, 4', 7.5W/FT (~3000 LUMENS), 120V.



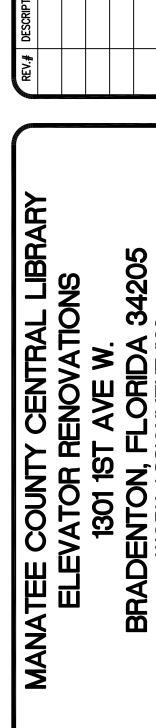
GENERAL NOTES:

(APPLY TO ALL SHEETS)

- PROVIDE COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM
- 2. ALL WORK SHALL CONFORM TO OR EXCEED THE MINIMUM REQUIREMENTS OF THE CURRENT ANSI/NFPA 70 WITH STATE OF FLORIDA AMENDMENTS, THE FLORIDA BUILDING CODE CHAPTER 30, ANSI/IEEE C2 AND ALL FEDERAL, STATE, LOCAL, AND MUNICIPAL CODES AND ORDINANCES. THE ELECTRICAL SUBCONTRACTOR SHALL COMPLY WITH THE DIRECTIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- 3. INSTALL WORK USING PROCEDURES DEFINED IN NECA STANDARDS OF INSTALLATION. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
- 4. REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING AND MILLWORK WORK BY THE SEPARATE GENERAL CONTRACT. COORDINATE ALL ELECTRICAL WORK.
- 5. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE ALL FLOOR, WALL, AND CEILING PENETRATIONS TO COMPLETE HIS WORK. PROVIDE PROPER FIRE SAFEING FOR ALL PENETRATIONS MADE.
- 6. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES TO ENSURE EFFECTIVE AND EFFICIENT OVERALL INSTALLATION.
- 7. COORDINATE ALL ELECTRICAL SYSTEM DOWNTIME WITH THE OWNER, PERFORMANCE SERVICES, AND OTHER TRADES. DOWNTIME OF THE SYSTEM SHALL BE MINIMIZED. WEEKEND AND AFTER HOUR WORK SHALL BE REQUIRED TO PREVENT OR MINIMIZE INTERFERENCE WITH THE OWNER'S OPERATION.
- 8. THE LOCATIONS OF NEW RECEPTACLES, PHONE/DATA JACKS, AND ROOM EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED DURING THE CONSTRUCTION PHASE.
- 9. ALL NEW EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.
- 10. PHYSICAL SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. COORDINATE ELECTRICAL WORK FOR THIS EQUIPMENT WITH THE OTHER TRADES.
- 11. PROVIDE APPROPRIATE SEALANT (I.E. FIRESAFEING) TO MAINTAIN CONSTRUCTION INTEGRITY FOR ANY PENETRATIONS THROUGH FLOORS, STRUCTURAL CEILINGS, AND FIRE WALLS.
- 12. ALL BRANCH CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTOR, AND INSULATED GROUNDING CONDUCTOR. DO NOT COMBINE NEUTRAL CONDUCTORS.
- 13. ALL FEEDER NEUTRAL/GROUNDED CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. DERATE MULTIPLE CONDUCTORS IN A RACEWAY ACCORDINGLY WITH NEC TABLES.
- 14. INSTALL ALL CONDUITS, RACEWAYS, AND CABLE TRAY FOR MAXIMUM HEAD CLEARANCE IN MECHANICAL AREAS, AND ATTIC. COORDINATE CLEARANCES WITH PERFORMANCE SERVICES AND THE OWNER.

(APPLY TO ALL SHEETS)

- 15. ALL ELECTRICAL SERVICE WORK SHALL COMPLY WITH THE LOCAL UTILITY.
 COORDINATE ALL REQUIREMENTS AND MAXIMUM AVAILABLE FAULT CURRENT
 PRIOR TO BID AND INCLUDE ALL NECESSARY MATERIAL AND LABOR REQUIRED
 FOR THE ADDITION TO THE ELECTRICAL SERVICE. ADD UTILITY FEES TEXT.
- 16. CONTRACTOR SHALL DEMOLISH ANY REMAINING EXISTING ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, FIXTURES, WIRE, UTILITY TRANSFORMER, ETC. COMPLETE. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID. ALL REMOVED EQUIPMENT/FIXTURES SHALL BE TURNED OVER TO THE OWNER.
- 17. CAP AND FIRE STOP ALL EXISTING UNUSED CONDUITS AND CONDUIT PENETRATIONS THROUGH THE FLOOR AND TO THE FLOOR ABOVE.
- 18. IF A NEW CONDUIT IS REQUIRED FOR A RECEPTACLE, THERMOSTAT, OR WALL SWITCH, THE ELECTRICAL CONTRACTOR SHALL PATCH THE DRYWALL.
- 19. TEST GROUNDING SYSTEM AFTER COMPLETION OF JOB TO INSURE PROPER GROUND CONDUCTIVITY.
- 20. RECORD DRAWINGS: PROVIDE AMPERE READINGS ON ALL PANELBOARDS TO PROVE PANELS ARE BALANCED. PROVIDE PHASE ROTATION READINGS ON ALL PANELBBOARDS.
- 21. THE PANEL LOADS ARE EITHER REDUCED OR HAVE NO NET CHANGE IN POWER. PANEL SCHEDULES SHALL BE PROVIDED WITH AS—BUILTS. THE NET POWER DEMAND MAY BE REDUCED OR NOT AT ALL DEPENDING UPON THE
- 22. WIRE AND CONDUIT SIZES SHALL BE VERIFIED WITH AS-BUILTS FROM THE CONTRACTOR.



ELEVATOR CONTROLS
PROPOSED
FLOOR PLANS
AND SCHEDULES

FILE: MC CENTRAL LIBRARY

JOB NO.: 2014.38

DATE: 09/22/2014

PLOT SIZE: 24"X36"

DRAWN BY: CMD

JDC/MC

SHEET No.:

CHECKED BY:

1.1 RELATED SPECIFICATION SECTIONS: N/A

A. THE PURPOSE OF THIS PROJECT IS TO PROVIDE AND INSTALL NEW ELEVATOR UPGRADES.

1.3 REFERENCES

A.ANSI/ASME A17.1 — SAFETY CODE FOR ELEVATORS AND ESCALATORS.

B.ISO 9001-2000 - QUALITY MANAGEMENT SYSTEMS - REQUIREMENTS.

C.NFPA 72 2016 - FIRE ALARM

D.NFPA 70 2017 - NATIONAL ELECTRICAL CODE

E. FLORIDA BUILDING CODE 2017 CHAPTER 30 - ELEVATORS

1.4 DESIGN REQUIREMENTS

A. ARRANGE ELEVATOR COMPONENTS IN MACHINE ROOM SO EQUIPMENT CAN BE REMOVED FOR REPAIRS OR REPLACED WITHOUT DISMANTLING OR REMOVING OTHER EQUIPMENT COMPONENTS. UPGRADES TO THE EXISTING SYSTEMS ARE DESCRIBED ON THE PLANS. ALL OF THE OPTIONS MAY NOT BE INCLUDED IN THE PROJECT. PROVIDE A PRICE BREAKDOWN FOR EACH OF THE COMPONENTS. SOME COMPONENTS MAY NEED TO BE A LA CARTE. PROVIDE REASONING FOR COMBINED COMPONENTS TO THE OWNER'S REPRESENTATIVE.

1.5 SUBMITTALS

A.COMPLY WITH THE COUNTY'S SUBMITTAL PROCEDURES — PROVIDE AT LEAST 3 HARD COPIES AND AN ELECTRONIC PDF COPY OF THE SUBMITTAL AND CUT SHEETS TO THE OWNER'S REPRESENTATIVE AND ENGINEER FOR PRODUCT

B.PRODUCT DATA: SUBMIT MANUFACTURER/INSTALLER'S PRODUCT DATA, INCLUDING INSTALLATION INSTRUCTIONS.

C.SHOP DRAWINGS: SUBMIT MANUFACTURER/INSTALLER'S SHOP DRAWINGS, INCLUDING PLANS, ELEVATIONS, SECTIONS, AND DETAILS, INDICATING LOCATION OF EQUIPMENT, LOADS, DIMENSIONS, TOLERANCES, MATERIALS, COMPONENTS, FABRICATION, FASTENERS, HARDWARE, FINISH, OPTIONS, ACCESSORIES, AND OTHER INFORMATION TO RENDER TOTALLY FUNCTIONAL ELEVATORS.

D.SAMPLES: SUBMIT MANUFACTURER/INSTALLER'S SAMPLES OF STANDARD COLORS AND FINISHES OF FINISH MATERIALS.

E.OPERATION AND MAINTENANCE MANUAL: SUBMIT MANUFACTURER/INSTALLER'S OPERATION AND MAINTENANCE MANUAL; INCLUDING OPERATION, MAINTENANCE, ADJUSTMENT, AND CLEANING INSTRUCTIONS; TROUBLE SHOOTING GUIDE; RENEWAL PARTS CATALOGS; AND ELECTRICAL WIRING DIAGRAMS.

F. WARRANTY: SUBMIT MANUFACTURER/INSTALLER'S STANDARD WARRANTY— UPGRADE WARRANTY TO A MINIMUM OF 3 YEARS FULLY COMPREHENSIVE PARTS, LABOR, REPAIRS, AND ALL REPAIR AND MAINTENANCE.

1.6 QUALITY ASSURANCE

A.MANUFACTURER/INSTALLER'S QUALIFICATIONS: SPECIALIZE IN MANUFACTURING AND INSTALLING ELEVATOR EQUIPMENT, WITH A MINIMUM OF 5 YEARS SUCCESSFUL EXPERIENCE.

1. ELEVATOR DESIGN, CLEARANCES, CONSTRUCTION, WORKMANSHIP, MATERIALS, AND INSTALLATION, UNLESS SPECIFIED OTHERWISE, SHALL BE IN ACCORDANCE WITH ANSI/ASME A17.1, HANDICAP ACCESSIBILITY, AMERICANS WITH DISABILITIES ACT, AND OTHER CODES HAVING LEGAL JURISDICTION.

2. ANSI/ASME A17.1 SHALL GOVERN, EXCEPT WHERE CODES HAVING LEGAL JURISDICTION INCLUDE MORE RIGID REQUIREMENTS OR CONFLICT WITH ANSI/ASME 3. ELEVATOR SHALL FOLLOW DESIGN AND MANUFACTURING PROCEDURES CERTIFIED IN ACCORDANCE WITH ISO 9001-2000 TO MEET PRODUCT AND SERVICE

C.PRE-INSTALLATION MEETING: CONVENE PRE-INSTALLATION MEETING BEFORE START OF INSTALLATION OF

REQUIREMENTS FOR QUALITY ASSURANCE FOR NEW PRODUCTS.

ELEVATORS. 2. REQUIRE ATTENDANCE OF PARTIES DIRECTLY AFFECTING WORK OF THIS SECTION, INCLUDING CONTRACTOR, ARCHITECT, AND ELEVATOR MANUFACTURER/INSTALLER.

3. REVIEW EXAMINATION, INSTALLATION, FIELD QUALITY CONTROL, ADJUSTING. CLEANING, PROTECTION, AND COORDINATION WITH OTHER WORK.

1.7 DELIVERY, STORAGE, AND HANDLING

A.DELIVERY: DELIVER MATERIALS TO SITE IN MANUFACTURER/INSTALLER'S ORIGINAL, UNOPENED CONTAINERS AND PACKAGING, WITH LABELS CLEARLY IDENTIFYING PRODUCT NAME AND MANUFACTURER/INSTALLER.

B.STORAGE: STORE MATERIALS IN CLEAN, DRY AREA INDOORS IN ACCORDANCE WITH MANUFACTURER/INSTALLER'S INSTRUCTIONS.

C.HANDLING: PROTECT MATERIALS DURING HANDLING AND INSTALLATION TO PREVENT DAMAGE.

1.8 PROJECT CONDITIONS

A. TEMPORARY ELECTRICITY:

1. OWNER WILL ARRANGE FOR TEMPORARY 3-PHASE ELECTRICITY TO BE AVAILABLE FOR INSTALLATION OF ELEVATOR COMPONENTS. THE ELEVATOR CONTRACTOR WILL COORDINATE ALL POWER REQUIREMENTS WITH THE ELECTRICIAN AND OWNER'S REPRESENTATIVE. 2. COMPLY WITH TEMPORARY UTILITIES.

B. TEMPORARY USE OF ELEVATOR:

1. OWNER WILL NEGOTIATE WITH MANUFACTURER/INSTALLER FOR TEMPORARY USE OF ELEVATOR, IF REQUIRED. 2. TEMPORARY USE OF ELEVATOR SHALL BE IN ACCORDANCE WITH TERMS AND CONDITIONS OF MANUFACTURER/INSTALLER'S TEMPORARY ACCEPTANCE FORM.

1.9 SCHEDULING

A.COORDINATE ELEVATOR WORK WITH WORK OF OTHER TRADES, FOR PROPER TIME AND SEQUENCE TO AVOID CONSTRUCTION DELAYS.

1.10 WARRANTY

A.MANUFACTURER/INSTALLER SHALL GUARANTEE MATERIALS AND WORKMANSHIP OF EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS AND MAKE GOOD, DEFECTS NOT DUE TO ORDINARY WEAR OR TO IMPROPER USE. WHICH MAY DEVELOP WITHIN 3 YEARS AFTER COMPLETION OF INSTALLATION OR ACCEPTANCE THEREOF BY BENEFICIAL USE, WHICHEVER IS EARLIER. THE WARRANTY SHALL BE 3 YEARS FULLY COMPREHENSIVE INCLUDING ALL TRAVEL, EXPENSES, AND MILEAGE. A SERVICE MAINTENANCE CONTRACT WILL BE INCLUDED IN THE WARRANTY — ANY EXISTING SERVICE CONTRACT WILL REDUCE THE COST OF THE NEW CONTRACT.

1.11 MAINTENANCE SERVICE - NEW SERVICE CONTRACT

A.ELEVATOR MAINTENANCE SERVICE SHALL BE PERFORMED BY ELEVATOR MANUFACTURER/INSTALLER.

B.ELEVATORS SHALL RECEIVE REGULAR MAINTENANCE ON EACH UNIT FOR PERIOD OF 12 MONTHS AFTER COMPLETION OF WORK SPECIFIED HEREIN OR ACCEPTANCE THEREOF BY BENEFICIAL USE, WHICHEVER IS

C.TRAINED EMPLOYEES SHALL MAKE PERIODIC EXAMINATIONS AND PERFORM WORK INCLUDING NECESSARY ADJUSTING, GREASING, OILING, AND REPLACING PARTS TO KEEP ELEVATORS IN OPERATION, EXCEPT PARTS THAT REQUIRE REPLACEMENT BECAUSE OF ACCIDENTS, VANDALISM, MISUSE, OR NEGLIGENCE BY PARTIES OTHER THAN MANUFACTURER/INSTALLER.

D.MANUFACTURER/INSTALLER SHALL PERFORM ALL WORK, EXCEPT EMERGENCY MINOR ADJUSTMENT CALL—BACK SERVICE, DURING REGULAR WORKING HOURS. MANUFACTURER/INSTALLER SHALL PROVIDE EMERGENCY MINOR ADJUSTMENT CALL-BACK SERVICE, DURING REGULAR WORKING HOURS.

E. SHOULD OWNER REQUEST THAT EXAMINATIONS, CLEANING, LUBRICATION, ADJUSTMENTS, REPAIRS, REPLACEMENTS, OR EMERGENCY MINOR ADJUSTMENT CALL-BACK SERVICE, UNLESS SPÉCIFIED HEREIN, BE PERFORMED ON OTHER THAN MANUFACTURER/INSTALLER'S REGULAR WORKING HOURS OF REGULAR WORKING DAYS, MANUFACTURER/INSTALLER SHALL ABSORB STRAIGHT-TIME LABOR CHARGES AND OWNER WILL COMPENSATE MANUFACTURER/INSTALLER FOR OVERTIME PREMIUM, TRAVEL TIME, AND EXPENSE AT NORMAL BILLING RATES.

F. ELEVATOR CONTROL SYSTEM:

 INCLUDE BUILT—IN REMOTE DIAGNOSTIC MODULE TO RELAY CONSTANT STATUS OF ELEVATORS AND CONTROL SYSTEM TO A 24-HOUR, 7-DAYS-A-WEEK CENTRAL-MONITORING FACILITY. REMOTE MONITORING DEVICE: TRANSMIT INFORMATION ON CURRENT STATUS OF ELEVATORS, INCLUDING MALFUNCTIONS, SYSTEM ERRORS, AND SHUTDOWN.

PART 2 PRODUCTS

2.1 MANUFACTURER/INSTALLER

A.SCHINDLER ELEVATOR CORPORATION CONTACT: MS. DANIELLE DUVAL NI/MOD SALES REPRESENTATIVE PHONE 813.313.1955 | FAX 813.888.7785 DANIELLE.DUVAL@US.SCHINDLER.COM

B.OTIS ELEVATOR CORPORATION 422 INTERSTATE CT. SARASOTA, FL 34240 PHONE: (941) 342-4900 FAX: (941) 342-7690

C. THYSSENKRUPP ELEVATORS CONTACT: MR. KRIS GARCIA PHONE: 941-753-4787

D.ELEVATOR UPGRADES SHALL BE INSTALLED BY AN ELEVATOR MANUFACTURER.

2.2 ELEVATOR SYSTEM AND COMPONENTS

A.HYDRAULIC PASSENGER ELEVATORS: VERIFY EXISTING CONDITIONS.

B.ELEVATOR EQUIPMENT SUMMARY

1. APPLICATION: TELESCOPIC HOLELESS FRONT MOUNTED JACK 2. SERVICE: GENERAL PURPOSE PASSENGER - CLASS A LOADING 3. QUANTITY:

4. CAPACITY: 2500+ LBS 5. SPEED: 100 FPM

6. TRAVEL: FIELD VERIFY PRIOR TO BIDDING

. LANDINGS: 8. FRONT OPENINGS: 2

9. REAR OPENINGS: 0

10. OPERATION: MICROPROCESSOR SINGLE CAR AUTOMATIC OPERATION WITH ONBOARD DIAGNOSTIC CAPABILITIES

11. MACHINE ROOM: ADJACENT TO ELEVATOR HOISTWAY 12. PLATFORM SIZE: FIELD VERIFY DIMENSIONS PRIOR TO BIDDING 13. DOOR TYPE: SINGLE SPEED SIDE OPENING

14. CAB HEIGHT: VERIFY CAB HEIGHT 15. GUIDE RAILS: EQUIVALENT TO 16 LB. PER FOOT

16. HOISTWAY ENTRANCES: FIELD VERIFY PRIOR TO BIDDING 17. POWER SUPPLY: 208 OR 480 VOLTS 3 PHASE 60 HZ — VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.

C.ELEVATOR COMPONENTS UPDATES:

 ANTI-STALL FEATURE. BRAILLE AND AUDIBLE SIGNALS.

3. DOOR OPEN AND CLOSE STALL PROTECTION.

4. EMERGENCY LIGHTING. 5. FIREFIGHTER 'S SERVICE: COORDINATE WITH FIRE ALARM

CONTRACTOR.

6. INDEPENDENT SERVICE FEATURE. 7. INFRARED LIGHT CURTAIN DOOR PROTECTION.

8. LOW OIL RETURN.

9. OVERLOAD SENSORS.

10. PHASE PROTECTION.

11. SOFT START ELECTRONIC STARTING

12. LOCKING SERVICE PANEL IN CAR OPERATING PANEL. 13. PRESSURE SWITCH.

14. REMOTE MONITORING CAPABLE. 15. TELEPHONE (ADA COMPLIANT).

2.3 ELEVATOR MATERIALS

A.FINISHES (COORDINATE WITH OWNER'S REPRESENTATIVE): 1. STAINLESS STEEL AND BRONZE: #4 SATIN OR #8 MIRROR FINISH. 2. BAKED ENAMEL COLORS: MANUFACTURER/INSTALLER'S STANDARD

COLOR SELECTIONS. 3. EXPOSED ALUMINUM FRAMES IN SUSPENDED CEILINGS: ANODIZED. **B.PLASTIC LAMINATES:**

TYPE: GENERAL PURPOSE. 2. FLAME SPREAD RATINGS: AS REQUIRED BY CODE. 3. PATTERN: SELECT FROM ELEVATOR MANUFACTURER/INSTALLER'S STANDARD SELECTION.

C.UL OR CSA APPROVED: MOTORS, PUMPS, VALVES, FLUID TANK, HYDRAULIC FLUID, MICROPROCESSOR CONTROLLER, CONTROLS, PUSHBUTTONS, AND WIRING.

D.SPRING BUFFERS, ATTACHMENT BRACKETS, AND ANCHORS: DESIGN AND SIZE ACCORDING TO BUILDING CODE WITH SAFETY FACTORS.

E.PUMP: POSITIVE DISPLACEMENT SCREW TYPE, DESIGN FOR STEADY DISCHARGE WITH MINIMAL PULSATIONS.

F. MUFFLER: REDUCE NOISE TRANSMISSION.

G. TELESCOPIC HOLELESS JACK SYSTEM:

1. JACK CYLINDER: MOUNT TO CAR STRUCTURE. 2. SYNCHRONIZATION OF JACK STAGES: DIRECT MECHANICAL MEANS TO ENSURE ELEVATOR MOVES AT STEADY SPEED AND PROVIDES SMOOTH

2.4 ELEVATOR CABS

A.HEIGHT: 8'-0" FROM FINISHED FLOOR TO UNDERSIDE OF CANOPY.

B.ELEVATOR CAR ENCLOSURE WALL SECTIONS: 1. MINIMUM 16-GAUGE (0.060-INCH) STEEL PANELS, ALLOWING MAXIMUM DEFLECTION OF 1/4".

2. CAB WALL: STEEL, BAKED ENAMEL FINISH WITH PLASTIC LAMINATE RAISED PANELS.

1. SUSPENDED WITH EXPOSED FRAME WITH PLASTIC LAY-IN PANELS. 2. LIGHTING: FLUORESCENT.

E. CAB RETURNS: INTEGRAL CONSTRUCTION. 1. FINISH: #4 STAINLESS STEEL.

C.BASE, FRIEZE, AND REVEALS: BAKED ENAMEL.

F. TRANSOMS:

1. RUN FULL WIDTH OF CAB. 2. FINISH: #4 STAINLESS STEEL.

G. CAB DOORS: 1. FLUSH DESIGN BOTH SIDES.

2. RIB CONSTRUCTION.

3. FINISH: #4 STAINLESS STEEL.

H.INFRARED LIGHT CURTAIN DOOR PROTECTION:

1. EQUIP LEADING EDGES OF CAR DOORS WITH CONCEALED TRANSMITTER AND RECEIVER INFRARED BEAM DEVICES TO DETECT PRESENCE OF OBJECT IN PROCESS OF PASSING THROUGH HOISTWAY ENTRANCE AND

CAR DOORWAY. 2. USE MULTIBEAM SCANNING WITHOUT MOVING PARTS TO DETECT OBSTRUCTIONS IN DOOR OPENING. 3. DETECTOR DEVICE: PREVENT DOORS FROM CLOSING, OR IF THEY

HAVE ALREADY STARTED CLOSING, CAUSE DOORS TO REOPEN AND REMAIN OPEN WHILE OBJECT IS WITHIN DETECTION ZONE. 4. HORIZONTAL BEAMS: MINIMUM OF 40 HORIZONTAL BEAMS TO FILL DOORWAY FROM GROUND LEVEL TO A HEIGHT OF 6 FEET.

I. EXHAUST FAN:

1. SINGLE SPEED. 2. MOUNT IN CAB TRANSOM OR CANOPY.

J. HANDRAIL:

1. 1/2" X 2" FLAT IN BRUSHED ALUMINUM. 2. MOUNT ON REAR WALL.

K. THRESHOLD: ALUMINUM.

L. CAB FINISH FLOORING: AS SPECIFIED BY THE OWNER'S REPRESENTATIVE. COORDINATE OPTIONS WITH OWNER'S REPRESENTATIVE.

2.5 HOISTWAY ENTRANCES

A.HOISTWAY DOORS AND FRAMES:

1. UL RATED WITH REQUIRED FIRE RATING. 2. DOORS: RIGID FLUSH PANEL CONSTRUCTION WITH SOUND-DEADENING MATERIAL. 3. FRAMES: SECURELY FASTEN AT CORNERS TO FORM UNIT FRAME.

FRAMES SHALL BE BOLTED. B.EXPOSED AREAS OF CORRIDOR FRAMES: BAKED ENAMEL PRIMER ON ALL FLOORS.

C.DOORS: BAKED ENAMEL PRIMER ON ALL FLOORS.

D. SILLS: ALUMINUM ON ALL FLOORS.

2.6 CAB FIXTURES

A.MAIN CAR OPERATING PANEL: 1. MOUNT IN RETURN.

2. COMPLY WITH HANDICAP REQUIREMENTS.

3. PUSHBUTTONS: ILLUMINATE USING LONG-LASTING LED'S INCLUDED FOR EACH FLOOR SERVED. 4. EMERGENCY BUTTONS AND SWITCHES: PROVIDE IN ACCORDANCE WITH

B.CAB FIXTURES:

1. CAR LANTERN(S).

2. DIGITAL CAR POSITION INDICATOR. 3. LOCKING SERVICE PANEL IN CAR OPERATING PANEL.

5. SWITCHES FOR CAR LIGHT AND ACCESSORIES.

4. TELEPHONE (ADA COMPLIANT).

2.7 HALL FIXTURES

A.PUSHBUTTONS:

1. UP BUTTON AND DOWN BUTTON AT INTERMEDIATE FLOORS.

2. SINGLE BUTTON AT EACH TERMINAL FLOOR. 3. HEIGHT: COMPLY WITH HANDICAP REQUIREMENTS.

4. ILLUMINATION: ILLUMINATE USING LONG-LASTING LED'S.

B.HALL FIXTURE FINISH: VERIFY WITH OWNER'S REPRESENTATIVE

C.FIXTURE COVER PLATES: MOUNT WITH TAMPER-RESISTANT SCREWS IN SAME FINISH AS FIXTURE.

PART 3EXECUTION

3.1 EXAMINATION

A.EXAMINE HOISTWAYS, HOISTWAY OPENINGS, PITS, AND MACHINE ROOMS BEFORE STARTING ELEVATOR INSTALLATION.

B. VERIFY HOISTWAY, PIT. MACHINE ROOM, AND OPENINGS ARE OF CORRECT SIZE, WITHIN TOLERANCES, AND ARE READY FOR WORK OF THIS

C. VERIFY WALLS AND SILL SUPPORTS ARE PLUMB, WHERE OPENINGS

D. VERIFY HOISTWAY IS CLEAR AND PLUMB, WITH MAXIMUM VARIATION OF 1/2" AT ANY POINT.

E. VERIFY MINIMUM 2-HOUR FIRE-RESISTANCE RATING OF HATCH WALLS. F. THE SYSTEMS ARE EXISTING AND SHOULD BE DIMENSIONALLY

ACCEPTABLE TO THE MANUFACTURER. VERIFY EXISTING CONDITIONS AND

PROVIDE ALL OPTIONS FOR THE INSTALLATION OF THE UPGRADES.

G.DO NOT PROCEED WITH ELEVATOR INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN APPROVED FOR CORRECTION AND CORRECTED IN A MANNER ACCEPTABLE TO MANUFACTURER/INSTALLER.

3.2 INSTALLATION

A.INSTALL ELEVATORS IN ACCORDANCE WITH MANUFACTURER/INSTALLER'S INSTRUCTIONS AND ANSI/ASME A17.1.

B.SET ENTRANCES IN VERTICAL ALIGNMENT WITH CAR OPENINGS, AND ALIGNED WITH PLUMB HOISTWAY LINES.

3.3 FIELD QUALITY CONTROL

GOVERNING CODES. 3.4 ADJUSTING

A.ADJUST ELEVATORS FOR PROPER OPERATION IN ACCORDANCE WITH

A.PERFORM TESTS OF ELEVATOR AS REQUIRED BY ANSI/ASME A17.1 AND

MANUFACTURER/INSTALLER'S INSTRUCTIONS. B.ADJUST ELEVATORS FOR SMOOTH ACCELERATION AND DECELERATION OF CAR SO NOT TO CAUSE PASSENGER DISCOMFORT.

C. ADJUST DOORS TO PREVENT OPENING OF DOORS AT LANDING ON CORRIDOR SIDE, UNLESS CAR IS AT REST AT THAT LANDING, OR IS IN

LEVELING ZONE AND STOPPING AT THAT LANDING. D. ADJUST AUTOMATIC FLOOR LEVELING FEATURE AT EACH FLOOR TO WITHIN 1/4 INCH OF LANDING.

E. REPAIR MINOR DAMAGES TO FINISH IN ACCORDANCE WITH MANUFACTURER/INSTALLER'S INSTRUCTIONS AND AS APPROVED BY OWNER'S REPRESENTATIVE.

F. REMOVE AND REPLACE DAMAGED COMPONENTS THAT CANNOT BE

SUCCESSFULLY REPAIRED AS DETERMINED BY OWNER'S REPRESENTATIVE.

3.6 PROTECTION

3.5 CLEANING A.CLEAN ELEVATORS PROMPTLY AFTER INSTALLATION IN ACCORDANCE WITH MANUFACTURER/INSTALLER'S INSTRUCTIONS.

B.DO NOT USE HARSH CLEANING MATERIALS OR METHODS THAT COULD DAMAGE FINISH.

A.PROTECT INSTALLED ELEVATORS FROM DAMAGE DURING CONSTRUCTION.

ELEVATOR SPECIFICAT

FILE: MC CENTRAL LIBRARY 2014.38 JOB NO.: 09/22/2014 24"X36" PLOT SIZE: DRAWN BY: JDC/MC

CHECKED BY: SHEET No.:

FEEDER AND BRANCH CIRCUIT SCHEDULE												
FEEDER/BRANCH	COPPER C	CONDUCTOR N,&THWN-2	SETS OF	CONDUIT SIZE AND QUANTITY [QUANTITY OF CONDUIT IS 1, UNLESS NOTED IN ()]								
DESIGNATION	PHASE & NEUTRAL	EQUIPMENT GROUND	CONDUCTORS	1P, 1N, 1G, 2P, 1G	2P, 1N, 1G, 3P, 1G	3P, 1N, 1G	3P, 2N, 1G	3P, 3N, 1G	3P, 1N, 2G			
F20	12	12	1	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"			
F30	10	10	1	3/4"	3/4"	3/4"	1"	1"	1"			
F40-50	8	10	1	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"			
F60	6	10	1	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"			
F70-F80	4	8	1	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"			
F90-F100	3	8	1	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	1 1/2"			
F110	2	6	1	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"			
F125	1	6	1	1 1/2"	2"	2"	2"	2 1/2"	2"			
F150	1/0	6	1	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"			

NOTES:
1. DO NOT COMBINE NEUTRAL CONDUCTORS FOR ALL CIRCUITS. USE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL CIRCUITS.

VOLTAGE DROP FOR 1φ, 20A BRANCH CIRCUITS SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3 PERCENT PER NEC 210.19A NOTE 4.											
	DISTANCE ALLOWED										
FEEDER SIZE TO USE	120V	208V	277V								
F20	0 - 45 FEET	0 - 79 FEET	0 - 105 FEET								
F30	45 – 72 FEET	79 – 126 FEET	105 - 168 FEET								
F40-50	72 – 115 FEET	126 - 201 FEET	168 - 267 FEET								
F60	115 - 183 FEET	201 - 318 FEET	267 - 423 FEET								
F70-80	183 – 292 FEET	318 - 506 FEET	423 - 675 FEET								
F90-100	292 - 367 FEET	506 - 637 FEET	675 – 848 FEET								
F110	367 - 464 FEET	637 - 804 FEET	848 - 1071 FEET								
F125	464 - 584 FEET	804 - 1013 FEET	1071 - 1349 FEET								
F150	584 - 738 FEET	1013 - 1279 FEET	1349 - 1703 FEET								

NOTES

- 20 A BRANCH CIRCUITS SHALL BE SIZED FOR VOLTAGE DROP. WIRE SIZES ARE NOT INDICATED ON THE DRAWINGS TO COMPENSATE FOR VOLTAGE DROP FOR THESE CIRCUITS. CONTRACTOR SHALL UTILIZE WIRE SIZE SHOWN ABOVE FOR DISTANCES LISTED ABOVE.
- VOLTAGE DROP WIRE SIZES WILL BE STRICTLY ENFORCED. CONTRACTOR SHALL SUBMIT A LIST
 OF CIRCUITS THAT WILL EXCEED THE DISTANCES ALLOWED AND INDICATE WIRE SIZE TO BE USED
 PRIOR TO ANY WIRE BEING INSTALLED.

PANELBOARD SCHEDULE		DESIGNA LOCATIO			MDP				MAINS: BUS SIZE	A MLO				
	VOLTAGE		E: 480Y/277							OUNTING	i:	SURFAC	E	
		PHASE:			3 PHASE	, 4 WIRE			ALL BRE	AKERS:		Exisitng	AIC	
СКТ	LOAD	LOAD	CONN.	BREA	AKER	CON	NECTED L	OAD	BRE	AKER	CONN.	LOAD	LOAD	СКТ
NO.	DESCRIPTION	CODE	KVA	AMPS	POLE	A	В	С	AMPS	POLE	KVA	CODE	DESCRIPTION	NO.
1	PANEL H1	P	24.00	150	3	47.25	><	$\geq \leq$	150	3	23.25	P	PANEL H2	2
	•	P	24.00			$\geq \leq$	51.00	> <			27.00	P	n	
	•	P	20.25			><	$\geq \leq$	45.75			25.50	P	•	
3	PANEL MCC	P	70.71	600	3	92.35	><	$\geq \leq$	175	3	21.64	P	PANEL PD	4
	•	P	70.71			$\geq \leq$	92.09	> <			21.38	P	(VIA XFMR)	
	•	P	70.62			><	$\geq \leq$	92.07			21.45	Р	"	
5	PANEL EL	P	4.05	50	3	32.85	><	> <	225	3	28.80	Р	PANEL L1	6
		P	4.05			><	31.05	><			27.00	P	п	
		P	4.05			><	$\geq \leq$	27.45			23.40	P	п	
7						0.00	><	\nearrow						8
						><	0.00	\nearrow						
						><	><	6.00	35	1	6.00	P	Instant Water Heater	
9						0.00	><	\times						10
						\times	0.00	\times						
						\times	> <	0.00						
11	Elevator #1	Р	4.35	50	3	4.35	><	\times						12
	•	Р	4.35			\times	4.35	\times						
	•	Р	4.35			\times	><	4.35						
13	Elevator #2	Р	4.35	50	3	4.35	><	\times					TVSS	14
	•	Р	4.35			\times	4.35	\times					п	
	•	Р	4.35			\times	><	4.35						
						181.15	182.84	179.97	KVA					
	TOTAL CONNECTED AMPS: 966.77 AMPS						660.05	649.69	AMPS					
	TOTAL CONNECTED LOAD:		680.02	KVA										
	TOTAL DEMAND AMPS:		660.05	AMPS										
	TOTAL DEMAND LOAD:		543.95	KVA										
	LOAD CODES:													
-	LIGHTING													
_	RECEPTACLES													

MECHANICAL/EQUIPMENT

SEE ONE-LINE RISER AND PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

USE EXISTING KAIC VALUES FOR BREAKERS. NO CHANGES WILL BE MADE TO THE EXISTING PANEL OR ONE—LINE RISER SYSTEM. A SINGLE BREAKER AND ELEVATOR DISCONNECTS WILL BE ADDED TO THE EXISTING SYSTEM.

COMPUTER KITCHEN PANELBOARD

	PANELBOARD SCHEDULE	DESIGNAT LOCATION VOLTAGE: PHASE:	l:		P1 (2 sectors of Server Rocal 208Y/120 3 PHASE,	om)			MAINS: BUS SIZE: PANEL MO ALL BREA	OUNTING:				
					· · · · · · · · · · · · · · · · · · ·									
СКТ	LOAD	LOAD	CONN.	BRE	AKER	CO	NNECTED LO	AD	BRE	AKER	CONN.	LOAD	LOAD	
NO.	DESCRIPTION	CODE	KVA	AMPS	POLE	Α	В	С	AMPS	POLE	KVA	CODE	DESCRIPTION	
1	Recepts N Wall 108-Stairs	R	0.90	20	1	2.16	$\overline{}$	$\overline{}$	20	1	1.26	R	Recepts Col & Wall 108-110	T
	Recepts N Wall 112	R	0.54	20	1	\times	1.08	\supset	20	1	0.54	R	Recepts Stair & E Wall 112	
5	Recepts N & E Wall 112	R	0.36	20	1	>	\sim	1.08	20	1	0.72	R	Recepts Stair & E Wall 112	
7	Circulation Desk	R	1.08	20	1	2.16	\Longrightarrow	$\overline{}$	20	1	1.08	R	Recepts SW Wall & S Wall 108	
9	Floor & Desk Recept 101	R	0.72	20	1	\sim	1.80	\Longrightarrow	20	1	1.08	R	Recepts Col 108	
	Floor & Desk Recept 101	R	0.72	20	1	>>	\sim	1.62	20	1	0.90	R	Recepts Counter Top 104	
13	Recepts S Wall W/15, 103 & Floor	R	1.08	20	1	2.16	>	$\overline{}$	20	1	1.08	R	Recepts 115-16-17	
	Recepts Wall 102 Flooor 103	R	1.08	20	1	\sim	2.16	\Longrightarrow	20	1	1.08	R	Recepts 115-19	
	Wall 103-104	R	1.08	20	1	>		1.98	20	1	0.90	R	Recepts 119	\dagger
19	Recepts 120	R	0.18	20	1	0.54	>		20	1	0.36	R	Recepts Telecom Room	
	Recepts 120	R	0.36	20	1	$\overline{}$	1.08	\Longrightarrow	20	1	0.72	R	Recepts115-118-123-121	+
23	Recepts 120-121 Storeroom	R	1.26	20	1	\Longrightarrow		2.34	20	1	1.08	R	Recepts 121-22-26	+
	Recepts 126 & Dock	R	0.72	20	1	0.72	\Longrightarrow		† <u>- </u>	_				+
		- "			_		0.00	\Longrightarrow	1					+
						\Longrightarrow		0.00						+
						0.00	\Leftrightarrow		1					+
							0.00	\Leftrightarrow	1					+
						\Leftrightarrow	0.00	0.00						+
						0.00	\Leftrightarrow	5.00						+
						0.00	0.00	\iff						+
						\Leftrightarrow	0.00	0.00						+
27	Recepts 126-130 Elevator	R	0.18	20	1	0.90	\Leftrightarrow		20	1	0.72	R	Recepts 123	+
	Recepts 126-130 Bookmobile	R	0.18	20	1	0.30	1.26	\Leftrightarrow	20	1	1.08	R	Recepts 126-23-35	+
	Recepts Col & Floor 134-138	R	1.08	20	1	\Leftrightarrow	1.20	2.16	20	1	1.08	R	Recepts 132-37-38	+
33	Recepts Floor 134-38	R	0.90	20	1	1.62	\Leftrightarrow	2.10	20	1	0.72	R	Recepts Wall & FI 134-135	+
	Recepts Wall 134-38		1.08	20		1.02	1.98	\Leftrightarrow	20		0.72	1	Recepts Wall & FI 134-138	+
37	Recepts Isolated REF Workroom	R	1.08	20	1	\Leftrightarrow	1.96	2.16	20	1		R	·	+
	Info Desk Computer	R	1.08		1	1.58	\Leftrightarrow	2.10	20		1.08 0.50	R	Recepts Col & Wall 134-138 Control Panel 2nd FL Mech RM	+
	·	R		20	1	1.56	450	\Leftrightarrow		1		R		+
41	Rear Door Operator	R	0.50	20	1	\Leftrightarrow	1.50	100	20	1	1.00	R	Dedicated Recpt - power pole	+
43	D D A		0.50	20	1	170	\iff	1.08	20	1	1.08	R	Normal Recpt - power pole	+
	Rear Door Operator	R	0.50	20	1	1.70	107	\iff	20	1	1.20	R	Microwave	+
	COPIER	R	0.75	20	1	\bowtie	1.95		20	1	1.20	R	Refrig / Coffe Pot	+
49	NEW FLEWTON COLUM	 . 		20	1		\iff	0.36	20	1	0.36	R	New Reference Desk Ropts	+
51	NEW ELEVATOR LIGHTS	L	0.24	20	1	0.60	12-	\iff	20	1	0.36	R	Public Computer Recepts	+
	COPIER	R	0.75	20	1	\iff	1.25		20	1	0.50	R	Public Computer Recepts	+
55	WiFi Seating/ Study Rm's	R	0.54	20	1		$\langle \tilde{} \rangle$	1.04	20	1	0.50	R	Public Computer Recepts	+
57	Oh audia d Ola Ula	R	A ==	20	1	0.50	422	\iff	20	1	0.50	R	Public Computer Recepts	+
59	Charging Stations	R	0.72	20	1	\iff	1.22		20	1	0.50	R	Public Computer Recepts	+
61	 	R		20	1		\iff	0.50	20	1	0.50	R	Public Computer Recepts	-
	Panel P2		5.45	125	3	5.95		\iff	20	1	0.50	R	Public Computer Recepts	+
65			4.87	ļ		\bowtie	5.37		20	1	0.50	R	Public Computer Recepts	+
67	"		5.79			20.50	20.05	6.29	20	1	0.50	R	Public Computer Recepts	
	TATAL AAMIDATES		 - :	44		20.59	20.65	20.61	KVA					
	TOTAL CONNECTED AMPS:		172.06			171.58	172.06	171.73	AMPS					
	TOTAL CONNECTED LOAD:		61.85											
	TOTAL DEMAND AMPS:			AMPS										
	TOTAL DEMAND LOAD:		22.97	KVA										
	LOAD CODES:													
	LIGHTING													
}=	RECEPTACLES						* = New Cir	cuit Breake	r, match exi	sting.				
 =	MECHANICAL/EQUIPMENT													

C= COMPUTER
K= KITCHEN
P= PANELBOARD

	P4 120/208 3P-4W 40A MCB 15 K XFI 277/ PRIM 120/ SECON	AR CONTRACTOR CONTRACTOR CENTRACTOR CENTRACT	ROL 3P-4W FER 150A DA MLO		277/480 3P-4W 100A MLO P3 120/208 3P-4W 125A MLO	2ND FLOOR
METER M F.A. PANEL	PANEL MDP 1200 GROUND 1000 FAULT 3P+S.N. PROT. +GROUND BUS	112.5 KVA TRANS'FMR. 277/480 PRIMARY 120/208 SECONDARY	277/480 277/480 277/ 3P-4W 3P-4W 3P- 400A 50A 15	11 277/480 -4W 0A LO 225A MLO	P1 P2 120/208 3P-4W 225A MLO 125A MLO	1ST FLOOR_
TO UTILITY TRANSFORMER	EXISTING GROUNDING SYSTEM	1 ONE-LINE NTS	RISER DIAGRAM	GENERAL NOT		

ATP ENGINEERING SOUTH, PL
BRADENTON, FLORIDA
ENGR. BUSINESS #8908

MANATEE COUNTY CENTRA ELEVATOR RENOVAT 1301 1ST AVE W. BRADENTON, FLORIDA

BELEVATOR ONE-LINE
RISER DIAGRAM

FILE:MC CENTRAL LIBRARY

JOB NO.: 2014.38

DATE: 09/22/2014

PLOT SIZE: 24"X36"

PLOT SIZE: 24"X36"

DRAWN BY: CMD

CHECKED BY: JDC/MC

SHEET No.:

EC4.0