

TO ALL BIDDERS: Proposed Remodeling for: Ashland City Hall - Ashland, MO

THIS ADDENDUM SHALL SUPERSEDE THE PLANS AND SPECIFICATIONS INSOFAR AS IT IS IN DISAGREEMENT WITH THE SAME. HOWEVER, IT WILL IN NO WAY RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY UNDER THE PLANS AND SPECIFICATIONS, EXCEPT AS HEREIN SPECIFICALLY STATED.

All Addenda's will be provided via e-mail to all Plan Rooms any General Contractors on the Plan Holders List. All other Contractors and Vendors to obtain a copy of the Addenda's from one of the above.

General Items:

Item No. G01 – CHANGE – BID LOCATION:

The Bid Location is Changed to the Current City Hall Location:

109 East Broadway – Ashland, Missouri

The day and time of the Bid Meeting has not changed.

Item No. G02 – Building Permit Fee:

The Building Permit is to be obtained and paid for by the General Contractor.

The Permit Application has been submitted and the fee is estimated to be \$4,050.00.

Include the amount above in your bid. If any adjustments are made, it will be the owners responsibility.

The Plan Review Fees are to be paid for by the owner.

Item No. G02 – Clarification – Section 012100 - Allowances

Under Para 3.3 – SCHEDULE OF ALLOWANCE

Allowance No. 1: Contingency Allowance is to be \$25,000.

Allowance No. 2: Weather Allowance is to be 5 days.

Item No. G03 – Correction – Section 017000 – Project Close Out

Under Para 4.1

ADD Asbestos Certification to this list. See Instructions to Bidders, IB-19

Architectural Items:

Item No. A01 – Change – Section 087100 – Finish Hardware

Hardware Group No. 2 – There will be a Schlage MT11 card reader by owner.

Hardware Group No. 6 – There will be a Badge Pass BP1501 PoE door controller and a Schlage MT11 card reader, both by owner.

Hardware Group No. 16 – There will be a Badge Pass BP1501 PoE door controller and a Schlage MT11 card reader, both by owner.

The Dual Credential Card Reader is to be omitted.

Hardware Group No. 17 – There will be a Schlage MT11 card reader by owner.

Item No. A02 – Clarification – Section 096500

Stairs – Provide treads and risers as indicated. No stringers are required, base can be used instead.

Ramps and Landings – Provide roundel raised round profile rubber tile.

Item No. A03 – Correction – Section 101400 - Interior Signage – ADA Sign Plaques

Para 3.6 references Signage Schedule on plans.

ADD on Sheet A401 – Signage Schedule – See the attached.

Signs required at doors: 122,123,124,126b,129a,131,132,134,135,139,143,145

Item No. A04 – Clarification – Drawings – Sheet A401 – Elevation “Corridor 135”
There will be two Evidence Pass-Thru lockers that will be provided by the owner.
MVE-MCC – MC-S-20213014 – See attached detail.
12 Door Pass-Thru Evidence Locker – 36” x 24” x 82”
The contractor is to provide rough-in framing and install the evidence lockers.

Item No. A05 – Correction – Drawings – Sheet A501 – Schedules
For the Storefront Openings A and B listed in the Window Schedule, the glazing is to be type G2,
¼” tempered, NOT type G6. The door schedule lists type G2 glazing and is correct.

MEP Items:

Mechanical

Item No. MEP01 – Clarification – Drawings – Sheets M102 and M601 are revised and re-issued.
Please see the two re-issued mechanical sheets attached.
Items of note:
1) Balance Damper information added on sheet M102.
2) Equipment changes on sheet M601.

Electrical

Item No. MEP02 – Clarification – Drawings – All sheets re-issued
Please see the eight re-issued electrical sheets attached.
Items of note:
1) Building mounted sign lights added.
2) Base Bid to include Automatic Transfer Switch NOT manual transfer switch.
Omitted reference to Manual Transfer Switch.

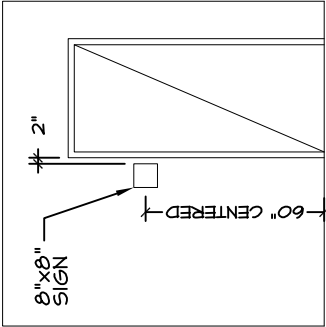
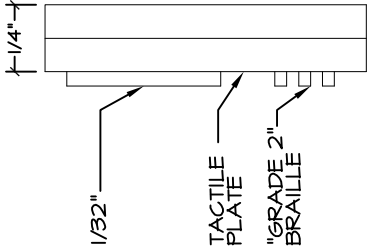
Plumbing – NO items.

Approved Substitution Requests:

Item No. AS01 – SECTION 079000 Caulking & Sealants
Equal Products by the following Manufacturer(s) will be accepted:
For Expansion / Control Joints
1. BASF Masterseal NP1
Section 2.7 Curing Materials, Para. E, Item 2 – Curing Compound
For Windows & Doors
1. Dow Corning 795

Item No. AS02 – SECTION 107310 Aluminum Walkway Covers
Equal Products by the following Manufacturer(s) will be accepted:
1. Peachtree Protective Covers, Inc.

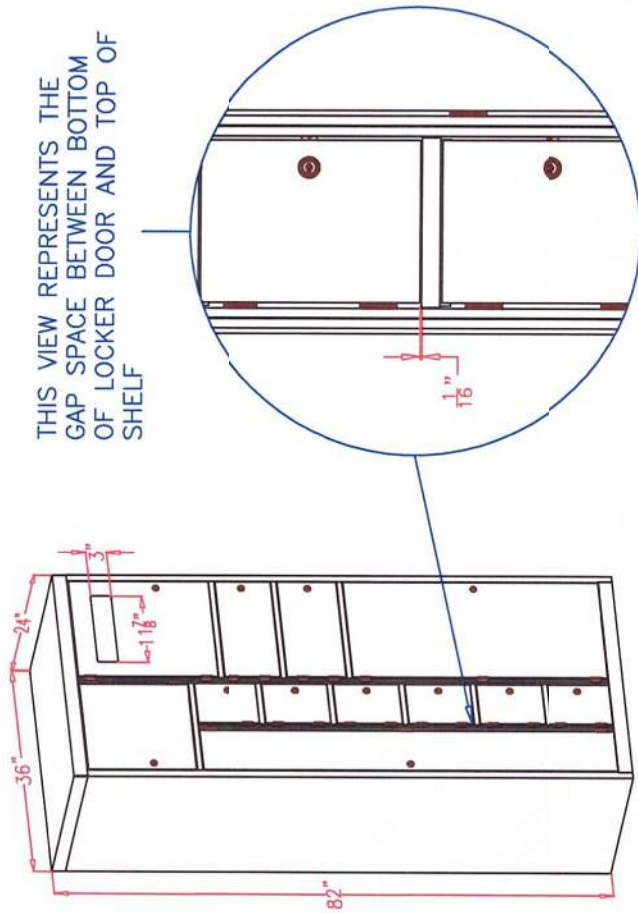
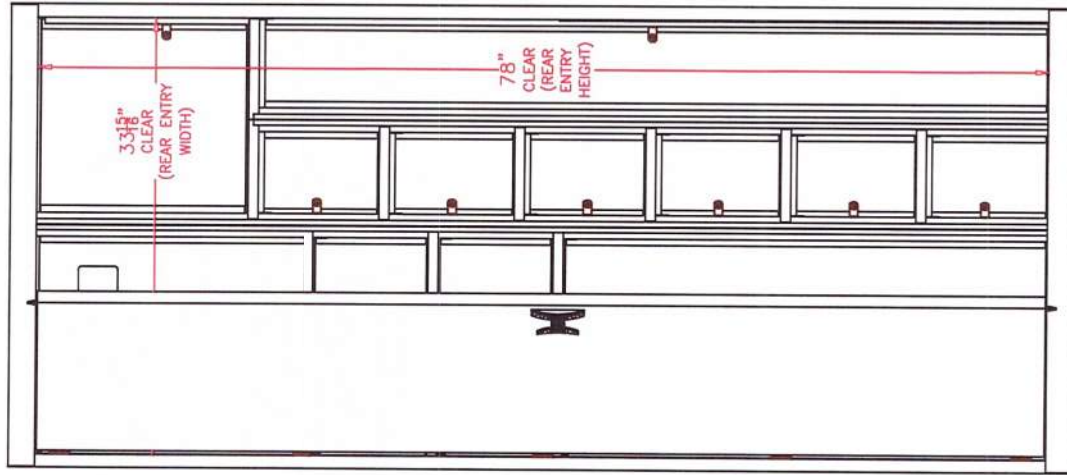
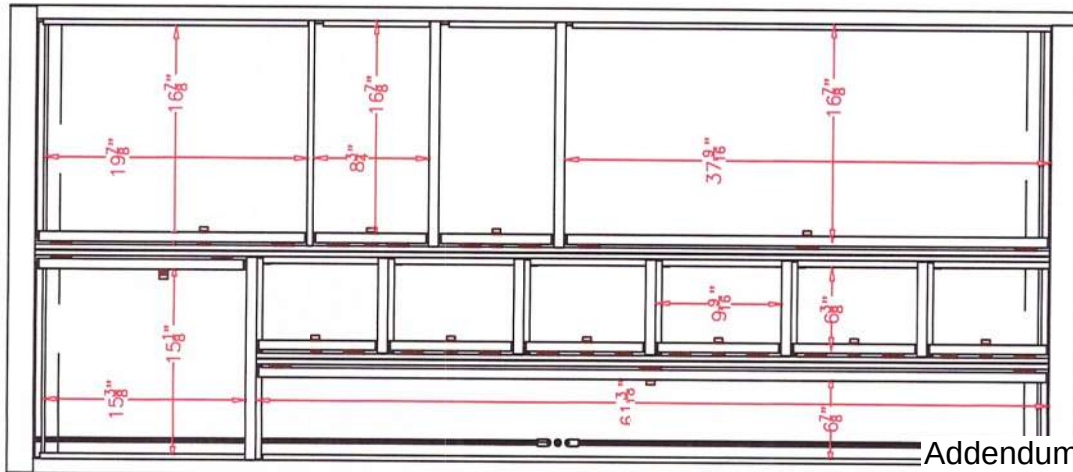
Attachments: Item A03 – Partial Plan – 1 Sheet
Item A04 – Partial Plan – 1 Sheet
Item MEP01 – Revised Mechanical Plans – 2 sheets
Item MEP02 – Revised Electrical Plans – 8 sheets
Current Plan Holders List – 1 page

SIGNAGE SPECIFICATIONS:			
NOTE: SIGNAGE SHALL BE PROVIDED FOR UTILITY ROOMS, JAN. ROOM & PUBLIC RESTROOMS. SEE LIST OF DOORS BELOW THAT WILL REQUIRE A SIGNAGE BESIDE THEM. DOORS: 122, 123, 124, 126b, 129a, 131, 132, 134, 135, 139, 143, 145			
PICTOGRAM 1/32" RAISED TACTILE PICTOGRAM AREA MUST BE 6" MINIMUM HIGH. TO BE IN CONFORMANCE WITH IAC 400.310.(u)(3).	MATERIAL AND COLOR MATERIAL: PLASTIC COLOR: "BEIGE" BACKGROUND WITH BLACK LETTERS (TO BE VERIFIED WITH OWNER), EXCEPT AT SPRINKLER ROOM WHICH IS TO BE THE RED BACKGROUND WITH WHITE LETTERS (VERIFY WITH LOCAL FIRE DEPARTMENT).	LOCATION 	DETAIL 
TEXT 5/8" HIGH, UPPERCASE HELVETICA MEDIUM (OR SANS SERIF) 1/32" RAISED LETTERS POSITIONED DIRECTLY BELOW PICTOGRAM	BRAILLE GRADE 2 BRAILLE POSITIONED DIRECTLY BELOW TEXT KROY RECOMMENDATIONS		
SIGN SIZE 8" x 8"			

ATTENTION: GERRY KLIETHERMES

THIS VIEW REPRESENTS THE
INSIDE COMPARTMENT
DIMENSIONS. ALL
COMPARTMENTS ARE FULL
DEPTH OF EVIDENCE LOCKER.

THIS VIEW REPRESENTS THE REAR
DOOR ACCESS AREA OVERALL
DIMENSIONS.



THIS VIEW REPRESENTS THE
GAP SPACE BETWEEN BOTTOM
OF LOCKER DOOR AND TOP OF
SHELF

ITEM NAME: TWELVE DOOR EVIDENCE LOCKER.

OUTER SHELL TOP/BOTTOM CONSTRUCTED FROM 16 GA. STEEL.
ALL DOORS, PANELS, AND SHELVES CONSTRUCTED FROM 18 GA.
STEEL.

THIS ITEM INCLUDES TWELVE (12) CAM LOCKS WITH DIFFERENT
KEY CONFIGURATIONS. REAR DOOR USES A LOCKING T-HANDLE
WITH LOCK ROD MECHANISM AND KEY CONFIGURATION DIFFERS
FROM ALL FRONT LOCK CONFIGURATIONS.

FLOOR GLIDES ARE NOT INCLUDED IN PRICE.

BAKED ENAMEL FINISH IN YOUR CHOICE OF AVAILABLE COLORS.

CUSTOMER MUST CHECK AND APPROVE DIMENSIONS BEFORE
ORDERING.

WHEN ORDERING THIS PRODUCT PLEASE REFER TO ITEM
MC-S-20213014.

\$1,000.00 EACH

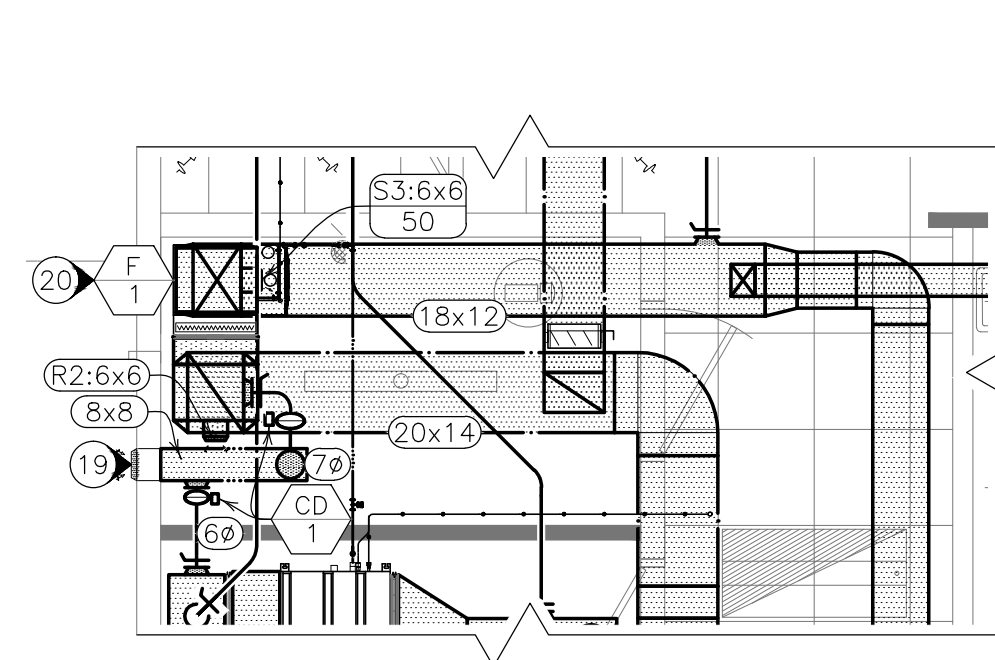
PRICE ONLY VALID FOR 30 DAYS DUE TO RECENT FLUCTUATION IN
STEEL PRICES.

ACCEPTED AND APPROVED BY:

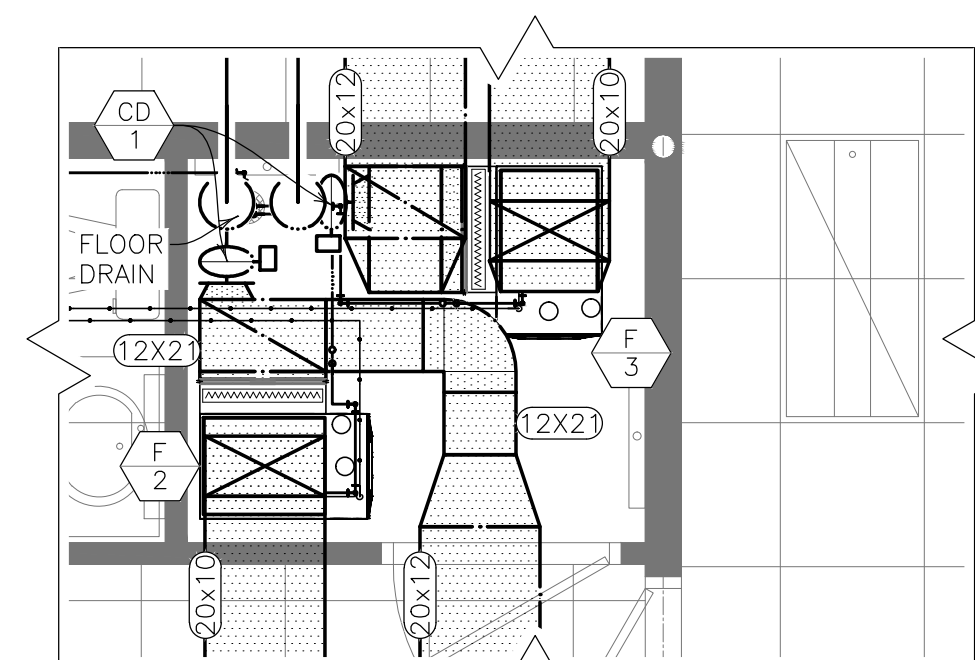
MVE
Development Department

NO	REVISION	DATE NO	REVISION	DATE	PART NAME	12 DOOR EVIDENCE LOCKER	DRAWN BY:	DATE:
					FILE NAME:	MC-S-20213014.DWG	EF	02/23/21
					MATERIAL:	METAL PRODUCTS	CHECKED BY:	02/23/21
					PREPARED BY:	CAD SERVICES-MVE-MCC	APPROVED BY:	02/23/21
							NTS	COVER

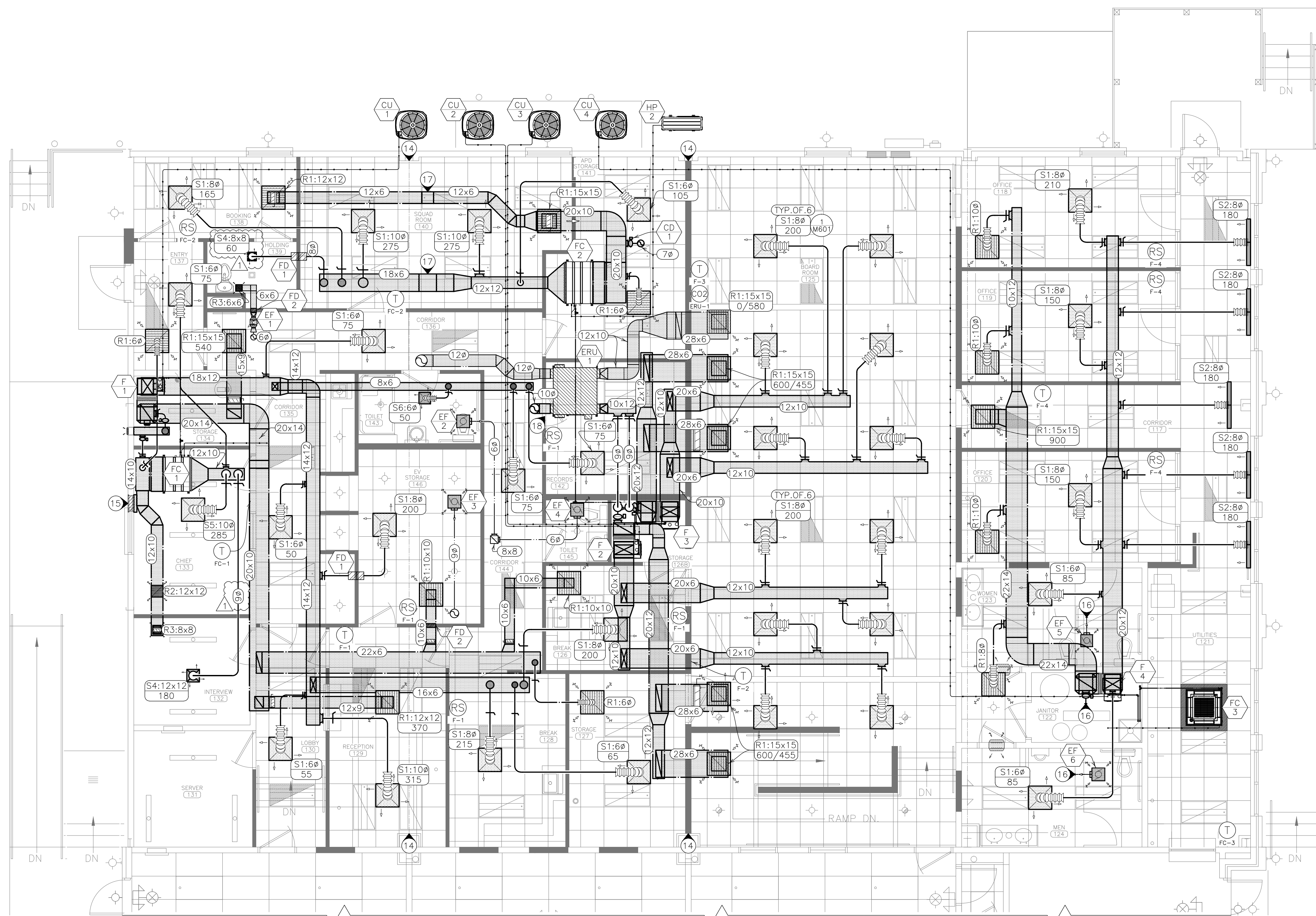
Addendum 01
Item A04



 **1** **STORAGE 134 PLAN** SCALE: 1/4"=1'-0"



 **2** STORAGE 126B PLAN
SCALE: 1/4"=1'-0"



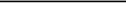
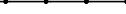
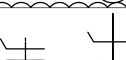
 **3** MECHANICAL HVAC PLAN
SCALE: 3/16"=1'-0"

NOTES

 INDICATES KEYED NOTES

- 1 FABRICATION, INSTALLATION AND TESTING OF ALL HVAC SYSTEMS SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL MECHANICAL CODE, ALL STATE AND LOCAL CODES, AND ALL MANUFACTURER INSTALLATION GUIDELINES.
- 2 ALL METALLIC AND FLEXIBLE DUCTS SHALL BE CONSTRUCTED AND INSTALLED AS SPECIFIED IN THE IMC AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- 3 DUCT HAS BEEN DESIGNED TO FIT IN THE SPACE AVAILABLE AND TO AVOID CONFLICTS. CONTRACTOR SHALL FIELD VERIFY FOR ANY UNFORESEEN CONFLICTS PRIOR TO FABRICATING DUCT. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES TO ENSURE ADEQUATE SPACE IS AVAILABLE FOR DUCT. IF DUCT IS ROUTED ABOVE OTHER DUCT, COORDINATE ELEVATION OF EACH DUCT PRIOR TO INSTALLATION TO ENSURE IT WILL FIT IN THE SPACE AVAILABLE. DESIGN INSULATION THICKNESS IS 1.5 INCH EXCEPT WHERE DUCT ROUTES ABOVE STRUCTURE WHERE IT IS 1 INCH THICK.
- 4 COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL LINE VOLTAGE WIRING AND CONDUIT. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING FOR MECHANICAL SYSTEMS. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT FOR LOW VOLTAGE WIRING.
- 5 TEST ALL EQUIPMENT FOR PROPER OPERATION. PROVIDE OPERATION MANUALS AND AS-BUILT DRAWINGS TO OWNER WITHIN 45 DAYS OF SYSTEM ACCEPTANCE.
- 6 THIRD PARTY, ABC OR NEBB CERTIFIED TESTING, ADJUSTING, AND BALANCING CONTRACTOR SHALL TEST AND BALANCE ALL SYSTEMS TO SPECIFIED VALUES AND PREPARE A BALANCE REPORT. REPORT SHALL BE SENT TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL COMPLETION. BALANCE DAMPERS ARE REQUIRED ON ALL SUPPLY AIR DEVICES. IF DEVICE DOES NOT HAVE DAMPER MOUNTED IN NECK PER DEVICE SCHEDULE, PROVIDE DAMPER BD-1 OR BD-2 AT BRANCH TAKE-OFF IN ACCESSIBLE LOCATION. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 7 ALL DUCTWORK WITH TWO DIMENSION <WxD> INDICATES RECTANGULAR DUCT. ALL <D> INDICATES ROUND DUCT. DIMENSIONS ARE INCHES MEASURED INSIDE. DUCT JOINTS SHALL BE CONNECTED USING DUCTMATE '25'/35'/45' DUCT CONNECTOR OR EQUAL. PROVIDE STANDARD TURNING VANES OR CURVED ELBOW WITH SQUARE THROAT ON RECTANGULAR DUCTS. ROUND DUCT SHALL MAINTAIN A CENTERLINE TURNING RADIUS OF 1.5 X DUCT DIAMETER. FLEXIBLE DUCT SHALL BE 5 FEET MAXIMUM LENGTH AND BE SUPPORTED TO MINIMIZE STATIC PRESSURE DROP.
- 8 ALL INSULATION SHALL MEET THE ASTM E 84 FLAME/SMOKE SPREAD INDEX OF 25/50 MAXIMUM. DUCT SEAMS SHALL BE SEALED. INSULATION THICKNESS BELOW ARE INSTALLED VALUES:
 - SUPPLY, RETURN, AND OUTSIDE AIR DUCT LOCATED ABOVE THE CEILING: EXTERNAL INSULATION; 1.5 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R6) WITH VAPOR BARRIER.
 - VAPOR AND RETURN DUCT ROUTED ABOVE BUILDING STRUCTURE: EXTERNAL INSULATION; 1 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R6) WITH VAPOR BARRIER. SEE ALSO NOTE 14 THIS SHEET.
 - EXHAUST DUCT: EXTERNAL INSULATION; 1 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R4) WITH VAPOR BARRIER.
- 9 PROVIDE SUITABLE SUPPORTS FOR STABILITY OF ALL HVAC DEVICES AND DUCT. AIR HANDLING EQUIPMENT SHALL BE PROVIDED WITH FLEXIBLE SUPPLY AND RETURN AIR DUCT CONNECTORS AT UNITS. HORIZONTAL UNITS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE THE UNIT.
- 10 PROVIDE A TRAPPED CONDENSATE DRAIN PIPE FOR EVAPORATORS THAT DO NOT HAVE A CONDENSATE PUMP. CONDENSATE PIPE SHALL BE 0.75 INCH INSIDE DIAMETER SCHEDULE 40 PVC. PROVIDE 0.5 INCH THICK INSULATION PER NOTE 11 FOR ANY CONDENSATE PIPE LOCATED ABOVE THE CEILING. SLOPE IN THE DIRECTION OF DISCHARGE A MINIMUM OF 1/8" PER FOOT. COORDINATE CONDENSATE DRAIN DISCHARGE LOCATION WITH PLUMBING CONTRACTOR. SEE DETAIL 2 SHEET M601. PROVIDE CLEANOUTS WHERE NOTED ON PLANS FOR LONG CONDENSATE PIPE LENGTHS.
- 11 INSULATE ALL REFRIGERANT PIPES WITH 0.75 INCH THICK FLEXIBLE ELASTOMERIC CELLULAR INSULATION THAT COMPLIES WITH ASTM C534 GRADE 1. THE REFRIGERANT PIPES SHALL BE SUPPORTED WITH A MAXIMUM SPAN BETWEEN HANGERS OF 5 FEET. SLOPE HORIZONTAL SECTION LINES 1 INCH PER 20 FEET TOWARD THE OUTDOOR UNIT. ALL HORIZONTAL VAPOR LINES SHALL BE LEVEL FOR HEAT PUMPS. USE LONG RADIUS ELBOWS WHEREVER POSSIBLE.
- 12 WEATHER SEAL OUTSIDE WALL REFRIGERANT PIPE PENETRATIONS. INSTALL ALUMINUM JACKET TO ANY EXTERIOR REFRIGERATE PIPE THAT IS EXPOSED TO OUTDOOR CONDITIONS.
- 13 ANY EXHAUST AIR OR FLUE VENT DISCHARGE SHALL BE 3 FEET HIGHER THAN ANY INTAKE OPENING WITHIN 10 HORIZONTAL FEET.
- 14 ROUTE DUCT ABOVE BEAM THAT SPANS NORTH-SOUTH ACROSS SPACE. DUCT ROUTED ABOVE STRUCTURE SHALL BE INSULATED PER NOTE 8 ONLY WHEN SPACE IS LIMITED DUE TO STRUCTURAL ELEMENTS. TRANSITION BETWEEN 1.5 INCH TO 1 INCH INSULATION SHALL BE SEALED. LIMIT USE OF 1 INCH INSULATION TO 4 INCHES BEFORE AND 4 INCHES AFTER BEAM.
- 15 PROVIDE INSULATED SHEET METAL COVER FOR EXISTING LOUVER. INSTALL SHEET METAL ON INSIDE FACE OF LOUVER AND COVER WITH INSULATED BOX. INSULATION SHALL BE R19 FIBERGLASS BATT WITH VAPOR BARRIER. COORDINATE WITH GENERAL CONTRACTOR.
- 16 ROUTE NEW DUCT TO EXISTING ROOF PENETRATION. USE EXISTING ROOF CAP. CLEAN CAP AND ANY EXISTING DUCT USED FOR NEW CONSTRUCTION.
- 17 TRANSITION DUCT UP TO ROUTE ABOVE STRUCTURE. PROVIDE 30-45° TRANSITION ANGLE.
- 18 COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE A 1 INCH DOOR UNDERCUT FOR RETURN.
- 19 USE EXISTING WALL CAP FOR OUTDOOR AIR INTAKE. CLEAN WALL CAP AND ALL ASSOCIATED COMPONENTS. REPLACE PEST SCREEN IF NEEDED. RELOCATE OR REPLACE BACKDRAFT DAMPER FOR USE IN INTAKE APPLICATION.
- 20 ROUTE SUPPLY AND RETURN DUCT THROUGH MEZZANINE FLOOR. SUPPLY AND RETURN GRILLES SHALL BE INSTALLED ON VERTICAL DUCT LOCATED INSIDE STORAGE 134.
- 21 REQUIRED BALANCE DAMPERS ARE SHOWN AS SYMBOLS ON PLANS. REFERENCE HVAC LEGEND FOR DEVICE TAG.

HVAC LEGEND

	THERMOSTAT WITH EQUIPMENT LABEL		TYPICAL OF 2 LIKE DEVICES THIS GROUP	
	REMOTE SENSOR WITH EQUIPMENT LABEL		HVAC EQUIPMENT	
	DIRECTION OF FLOW		SUPPLY AIR	
	DEVICE SCHEDULE TAG		RETURN AIR	
	DETAIL REFERENCE, NUMBER/SHEET		EXHAUST AIR	
	SUPPLY AIR DEVICE: SIZE (INCHES)/CFM		OUTSIDE AIR	
	RETURN AIR DEVICE: SIZE (INCHES)		REFRIGERANT PIPE	
	DUCT SIZE—RECTANGULAR (INCHES X INCHES)		CONDENSATE DRAIN PIPE	
	DUCT SIZE—ROUND (INCHES DIAMETER)		EXISTING TO REMAIN	
	AIR FLOW (CUBIC FEET PER MINUTE)		DUCT TAKEOFF AND CONTROL DAMPER	
			DUCT TAKEOFF AND BALANCE DAMPER	
			RECTANGULAR BALANCE DAMPER	



Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri



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AND JOB CONDITIONS.

Design By: TLS

Drawn By: TLS

Checked By: JLD

Division	Date	No.
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ADDENDUM NO. 1	06-18-2001	
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Scale: $3/16" = 1'-0"$

Scale: 0/10 = 100

MECHANICAL

HVAC PLAN

Date: 2021.06.01

A 1000

M102

M102

ABBREVIATION LEGEND	
TC	TOTAL CAPACITY
SC	SENSIBLE CAPACITY
ESP	EXTERNAL STATIC PRESSURE
EAT	ENTERING AIR TEMPERATURE
SHF	SENSIBLE HEAT FACTOR
OA	OUTDOOR AIR

SEQUENCE OF OPERATION

- FORCED AIR HVAC EQUIPMENT SHALL OPERATE CONTINUOUSLY DURING OCCUPIED TIME PERIODS DELIVERING THE SPECIFIED OUTSIDE AIR FLOW WHILE MAINTAINING ROOM TEMPERATURE SETPOINT. THE UNITS SHALL RUN INTERMITTENTLY TO MAINTAIN THE UNOCCUPIED TIME PERIOD ROOM TEMPERATURE SETPOINT. OUTDOOR AIR DAMPERS ARE TO BE CLOSED DURING UNOCCUPIED TIME PERIODS UNLESS A CALL TO OVERRIDE.
- OUTDOOR AIR DAMPERS SHALL BE CONTROLLED BY A 24 VAC SIGNAL FROM THE THERMOSTAT CONTROLLING THE ASSOCIATED FURNACE OR FAN COIL UNIT.
- ENERGY RECOVERY UNIT ERU-1 SHALL OPERATE THROUGH A WALL MOUNTED CONTROLLER FOR SCHEDULING PURPOSES. IF ERU-1 IS SCHEDULED TO OPERATE, A WALL MOUNTED CO2 SENSOR SHALL SEND A 0-10 VDC SIGNAL TO CHANGE FAN SPEED BASED ON CO2 LEVELS IN THE SPACE. OUTDOOR AIR DAMPERS FOR FURNACES F-2 AND F-3 SHALL OPEN WHEN ERU-1 IS OPERATING.
- REFERENCE SCHEDULE FOR EXHAUST FAN CONTROL REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- TEST AND PROGRAM ALL THERMOSTATS FOR PROPER OPERATION. PROVIDE LABEL TO INDICATE EQUIPMENT CONTROLLED BY THERMOSTAT. INSTRUCT OWNER IN THE PROPER USE OF THERMOSTATS AND REMOTE CONTROL OPTIONS THROUGH WEB BROWSER INTERFACE.

AIR DEVICE SCHEDULE					
TAG	MODEL	DESC.	STYLE	REMARK	NOTES
S1	SPD	SUPPLY	STEEL, WHITE, SQUARE PLAQUE DIFFUSER	RADIAL PATTERN; 24x24 MODULE; 24x24 FACE LAY-IN MOUNT	1,2 7
S2	TBD13100	SUPPLY	EXTRUDED ALUMINUM LINEAR SLOT DIFFUSER	COATED STEEL PLENUM; 2 SLOT 1" WIDTH; 2 ADJUSTABLE PATTERN CONTROLLERS; LAY-IN MOUNT	1,3 7
S3	520D	SUPPLY W/DAMPER	STEEL LOUVERED GRILLE	DOUBLE DEFLECTION; FRONT BLADES PARALLEL TO SHORT DIMENSION; SURFACE MOUNT	1,4
S4	MSRRCD	SUPPLY MAX SECURITY	STEEL, WHITE, SQUARE LOUVERED DIFFUSER	DIRECTIONAL PATTERN; 12 GAUGE STEEL FACE & SLEEVE; 35' DEFLECTION; SURFACE MOUNT	1,5 7
S5	SPD	SUPPLY	STEEL, WHITE, SQUARE PLAQUE DIFFUSER	RADIAL PATTERN; 24x24 MODULE; 24x24 FACE SURFACE MOUNT	1,6 7
S6	SPD	SUPPLY	STEEL, WHITE, SQUARE PLAQUE DIFFUSER	RADIAL PATTERN; 12x12 MODULE; 12x12 FACE SURFACE MOUNT	1,6 7
R1	PDDR	RETURN	STEEL, WHITE PERFORATED GRILLE	FLUSH FACE; 24x24 MODULE; 24x24 FACE LAY-IN MOUNT	7 7
R2	535D	RETURN W/DAMPER	STEEL, WHITE LOUVERED GRILLE	FIXED BLADES; 45' DEFLECTION; 1/2" BLADE SPACING; SURFACE MOUNT	1,4 7
R3	MSBL	RETURN SECURITY	STEEL, WHITE LOUVERED GRILLE	14 GAUGE FIXED BLADES; 45' DEFLECTION; 3/8" BLADE SPACING; SURFACE MOUNT	1,5 7
WC1	WCC06	7 INCH INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, INSULATED 12" CURB	8
WC2	WCC08	9 INCH INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, INSULATED 12" CURB	8
WC3	WCC10	11 IN INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, INSULATED 12" CURB	8
WC4	WCC12	13 IN INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, INSULATED 12" CURB	8
NOTES					
1 MANUFACTURER: PRICE, SEE PLAN FOR SIZE					
2 PROVIDE INSULATED BACKPAN: 1/2 INCH FIBERGLASS WITH VAPOR BARRIER					
3 PROVIDE CENTER NOTCH TO STRADDLE TEE GRID & INSULATED PLENUM					
4 PROVIDE OPPOSED BLADE DAMPER THAT IS OPERABLE FROM GRILLE FACE					
5 PROVIDE COUNTERSUNK HOLES WITH TAMPER-PROOF SCREWS					
6 PROVIDE SURFACE MOUNT ADAPTOR FRAME SPF					
7 PROVIDE BALANCE DAMPER BD-1 OR BD-2 AT BRANCH TAKE OFF TO DIFFUSER. SEE DAMPER SCHEDULE.					
8 MANUFACTURER: PENNBARRY; REFERENCE PLANS FOR INTAKE OR EXHAUST APPLICATION					

DAMPER SCHEDULE					
TAG	MFG/MODEL	DIMENSIONS	DESCRIPTION	SPECIFICATION	NOTES
	POTTORFF CD-10R	SEE PLANS FOR DUCT SIZE	BALANCE DAMPER ROUND	6 INCH WIDE, 22 GA GALVANIZED STEEL FRAME; SINGLE 22 GA GALVANIZED BLADE WITH CONTROL SHAFT & MANUAL LOCKING QUADRANT	1
	POTTORFF CD-10	SEE PLANS FOR DUCT SIZE	BALANCE DAMPER RECTANGULAR	2 INCH WIDE, 22 GA GALVANIZED STEEL FRAME; SINGLE 22 GA GALVANIZED BLADE WITH CONTROL SHAFT & MANUAL LOCKING QUADRANT	1
	POTTORFF CD-25R	SEE PLANS FOR DUCT SIZE	CONTROL DAMPER WITH FRAME	FRAME: 12"x20" GAGE GALVANIZED STEEL; BLADES: 14 GAGE; BLADE SEALS: POLYETHYLENE; BEARINGS: SYNTHETIC. CONCEALED LINKAGE	2 3
NOTES					
1 PROVIDE QUADRANT STANDOFF BRACKET FOR 1.5 INCH INSULATION					
2 PROVIDE ACTUATOR STANDOFF BRACKET FOR 1.5 INCH INSULATION					
3 PROVIDE BELIMO TF24-US ACTUATOR: ON/OFF, SPRING RETURN FAILSAFE, 24V; POWER OPEN/SPRING CLOSE					

FIRE DAMPER SCHEDULE				
TAG	MFG/MODEL	DESCRIPTION	SPECIFICATION	NOTES
FD 1	POTTORFF FD-125R	1.5 HR STATIC FIRE DAMPER ROUND BLADE SIZE TO MATCH DUCT	INTEGRAL 16 INCH X 20 GAUGE GALVANIZED STEEL 1 SLEEVE; INSTALLED VERTICAL OR HORIZONTAL; 14 GAUGE BLADE; FUSIBLE LINK 165°F	1
FD 2	POTTORFF VFD-10D-B	1.5 HR DYNAMIC FIRE DAMPER CURTAIN STYLE BLADE SIZE TO MATCH DUCT	OUT OF AIRSTREAM CURTAIN; INSTALLED VERTICAL 2 OR HORIZONTAL; GALVANIZED STEEL 22 GAUGE FRAME & 24 GAUGE BLADE; FUSIBLE LINK 165°F	2
NOTES				
2	PROVIDE MOUNTING PLATE PROVIDE RETAINING ANGLE SYSTEM (20 GAUGE)			

HVAC CONTROLS SCHEDULE					
TAG	MFG/MODEL	DESC.	CONNECTIONS	SPECIFICATION	NOTES
T	HONEYWELL TH8321	7-DAY PROGRAMMABLE COMMERCIAL THERMOSTAT WITH HUMIDITY SENSOR TOUCHSCREEN		CONVENTIONAL OR HEAT PUMP, PROVIDES OCCUPIED/UNOCCUPIED SCHEDULES, STAGES 3 HEAT/2 COOL, OA DAMPER CONTROL	1,2
					3,4
NOTES					
1	INSTALL 60 INCHES ABOVE FINISH FLOOR				
2	PROVIDE REMOTE SENSORS FOR AVERAGING. LOCATE AS SHOWN ON PLANS.				
3	PROVIDE FOR F-1, F-2, F-3, AND F-4. REFERENCE MINI-SPLIT SCHEDULE FOR FC CONTROLLER				
4	PROGRAM TO PROVIDE DEHUMIDIFICATION CONTROL WITH LOW FAN SPEED				
5	COORDINATE WITH OWNER FOR REMOTE CONNECTIVITY AND CONTROL				

	CONDENSING UNIT SCHEDULE							
TAG	MFG/ MODEL	DESCRIPTION	SEER/EER	NET COOLING CAPACITY	ELECTRICAL REQUIREMENTS	REFRIGERANT LINE SIZE	WEIGHT	NOTES
	TRANE 41TR7048B1	4 TON	16 SEER	TC: 44.75 MBh	240/60/1	7/8" GAS LINE	308 LBS	1
		2 STAGE	12.5 EER	SC: 33.04 MBh EAT: 74/62°F	28 MCA 45 MOP	3/8" LIQUID LINE		2
	TRANE 41TR7036A1	3 TON	16.5 SEER	TC: 33.62 MBh	240/60/1	3/4" GAS LINE	283 LBS	1
		2 STAGE	12.5 EER	SC: 26.25 MBh EAT: 74/62°F	24 MCA 35 MOP	3/8" LIQUID LINE		2
	TRANE 41TR7036A1	3 TON	16.5 SEER	TC: 33.62 MBh	240/60/1	3/4" GAS LINE	283 LBS	1
		2 STAGE	12.5 EER	SC: 26.25 MBh EAT: 74/62°F	24 MCA 35 MOP	3/8" LIQUID LINE		2
	TRANE 41TR7048B1	4 TON	16 SEER	TC: 45.5 MBh	240/60/1	7/8" GAS LINE	308 LBS	1
		2 STAGE	12.5 EER	SC: 35.02 MBh EAT: 74/62°F	28 MCA 45 MOP	3/8" LIQUID LINE		2
NOTES								
1	PROVIDE LIQUID LINE DRYER, SIGHT GLASS, INSULATED SUCTION LINE, LOW AMBIENT CONTROLS, LOUVERED COIL GUARD							
2	PROVIDE COMPRESSOR START TIMER TO ENSURE COMPRESSORS FOR ALL SYSTEMS DO NOT START AT THE SAME TIME							

	FURNACE SCHEDULE							
TAG	MFG/ MODEL	DESCRIPTION	SUPPLY/OUTSIDE AIRFLOW	HEATING CAPACITY	ELECTRICAL REQUIREMENTS	NATURAL GAS REQUIREMENTS	EVAPORATOR	NOTES
F 1	TRANE S9V2B080 U4PSB	96% AFUE 2 STAGE GAS	SUPPLY: 1425 CFM ESP: 0.9 IN WG OA: 120 CFM	LOW HEAT: 50.44 MWh HIGH HEAT: 77.6 MWh EAT: 65°F	120/60/1 10.8 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU48BS3 UPFLOW	1 2
F 2	TRANE S9V2B040 U3PS	97.6% AFUE 2 STAGE GAS	SUPPLY: 1200 CFM ESP: 0.75 IN WG OA: 290 CFM	LOW HEAT: 25.22 MWh HIGH HEAT: 38.8 MWh EAT: 65°F	120/60/1 7.9 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU42BS3 UPFLOW	1 2
F 3	TRANE S9V2B040 U3PS	97.6% AFUE 2 STAGE GAS	SUPPLY: 1200 CFM ESP: 0.75 IN WG OA: 290 CFM	LOW HEAT: 25.22 MWh HIGH HEAT: 38.8 MWh EAT: 65°F	120/60/1 7.9 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU42BS3 UPFLOW	1 2
F 4	TRANE S9V2B080 U4PSB	96% AFUE 2 STAGE GAS	SUPPLY: 1580 CFM ESP: 0.75 IN WG OA: 150 CFM	LOW HEAT: 50.44 MWh HIGH HEAT: 77.6 MWh EAT: 65°F	120/60/1 10.8 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU48BS3 UPFLOW	1 2
NOTES								
1	PROVIDE FACTORY FABRICATED EXTERNAL FILTER RACK WITH 2 INCH MERV 13 FILTERS; CONCENTRIC VENT TERMINATION KIT							
2	PROVIDE AUTO CLEANING NEEDLEPOINT BIPOLAR IONIZATION SYSTEM WITH OPERATION STATUS LED & BAS ALARM CONTACTS, MUST BE UL 867 COMPLIANT							

	MINI SPLIT SCHEDULE							
TAG	MFG/ MODEL	DESCRIPTION	AIRFLOW (CFM) EFFICIENCY	COOLING CAPACITY HEATING CAPACITY	ELECTRICAL REQUIREMENTS	REFRIGERANT LINE SIZE	SOUND PRESSURE LEVEL WEIGHT	NOTES
	MITSUBISHI PEAD- A18AA7	INDOOR UNIT DUCTED	DRY:600-512-424 CFM	COOL: 9.32-18 MBH	POWER PROVIDED	1/2" SUCTION LINE	37-33-30 dB(A)	1
			WET:540-461-382 CFM	SHF: 0.78	BY OUTDOOR UNIT	1/4" LIQUID LINE	62 LBS	3
	MITSUBISHI SUZ- KA18NAHZ	OUTDOOR UNIT	3.3COP @ 47F	HEAT: 21.6 MBH @ 47F	208/230V 1 PHASE	1/2" SUCTION LINE	55 dB(A)	5,6
			2.48 COP @ 17F	HEAT: 21.6 MBH @ 17F	17 MCA	1/4" LIQUID LINE	131 LBS	2
	MITSUBISHI PEAD- A30AA7	INDOOR UNIT DUCTED	10.8 HSPF	HEAT: 21.6 MBH @ 5F	31 MOP			7
			DRY:618-742-883 CFM	COOL: 18-30 MBH	POWER PROVIDED	5/8" GAS LINE	30-34-39 dB(A)	
	MITSUBISHI PUZ- HA30NKA	OUTDOOR UNIT	WET:578-702-843 CFM	SHF: 0.67	BY OUTDOOR UNIT	3/8" LIQUID LINE	69 LBS	3
			18 SEER/12.5 EER	ESP: 0.6 IN WG	FIELD-SUPPLIED WIRING		5,6	
	MITSUBISHI PLA- A18EA7	INDOOR UNIT CEILING CASSETTE	2.1 COP @ 47F	HEAT: 34 MBH @ 47F	208/230V 1 PHASE	5/8" GAS LINE	53 dB(A)	2
			2.1 COP @ 17F	HEAT: 32 MBH @ 17F	24 MCA	3/8" LIQUID LINE	261 LBS	7
	MITSUBISHI PUZ- A18NKA7	INDOOR UNIT CEILING CASSETTE	9.6 HSPF	HEAT: 32 MBH @ 5F	40 MOP			
			DRY:460-570-600 CFM	COOL: 8-18 MBH	POWER PROVIDED	1/2" SUCTION LINE	29-31-32 dB(A)	1
	MITSUBISHI PUZ- A18NKA7	OUTDOOR UNIT	WET:420-530-560 CFM	SHF: 0.85	BY OUTDOOR UNIT	1/4" LIQUID LINE	68 LBS	4
			24.6 SEER/14.4 EER	FIELD-SUPPLIED WIRING		5,6		
	MITSUBISHI PUZ- A18NKA7	OUTDOOR UNIT	4.28 COP @ 47F	HEAT: 19 MBH @ 47F	208/230V 1 PHASE	1/2" SUCTION LINE	46 dB(A)	2
			2.47 COP @ 17F	HEAT: 11 MBH @ 17F	11 MCA	1/4" LIQUID LINE	112 LBS	7
	MITSUBISHI PUZ- A18NKA7	OUTDOOR UNIT	11 HSPF		28 MOP			
NOTES								
1	PROVIDE PAR-40MAAU PROGRAMMABLE REMOTE CONTROLLER							
2	PROVIDE FIX-IT-FOOT ROOFTOP MOUNTING RAILS BY RECTORSEAL OR EQUAL; ADVANCED WIND BAFFLES FOR LOW AMBIENT OPERATION							
3	INCLUDES CONDENSATE PUMP; PROVIDE DRAIN PAN OVERFLOW SWITCH & FILTER BOX WITH MERV 13 FILTERS							
4	PROVIDE INSTALLATION TRIM PANEL; INCLUDES CONDENSATE PUMP							
5	PROVIDE AUTO CLEANING NEEDLEPOINT BIPOLAR IONIZATION SYSTEM WITH OPERATION STATUS LED & BAS ALARM CONTACTS, MUST BE UL 867 COMPLIANT							
6	PROVIDE DISCONNECT ACCESSORY							
7	PROVIDE COMPRESSOR START TIMER TO ENSURE COMPRESSORS FOR ALL SYSTEMS DO NOT START AT THE SAME TIME							

ENERGY RECOVERY UNIT							
TAG	MFG/MODEL/DESCRIPTION	AIRFLOW; EXTERNAL STATIC PRESSURE	COOLING CONDITIONS	HEATING CONDITIONS	ELECTRICAL REQUIREMENTS	WEIGHT	NOTES
ERU 1 NOTES	MITSUBISHI TLGHF060	SUPPLY: 580 CFM; 0.66 IN WG EXHAUST: 580 CFM; 0.66 IN WG	OUTSIDE: 95/76°F EXHAUST: 75/62°F SUPPLY: 83.4/69.4°F	OUTSIDE: 77/51°F EXHAUST: 70/54°F SUPPLY: 45.1°F	240/60/1 3.3 MCA 15 MOP	123 LBS	1 2
	TOTAL EFFECTIVENESS: 50% SUMMER, 64% WINTER; SENSIBLE EFFECTIVENESS: 67% SUMMER, 67% WINTER						
	PROVIDE PZ-61DR-E CONTROLLER, FACTORY MOUNTED DISCONNECT, MERV 13 FILTERS, SUPPLY AND EXHAUST MOTORIZED DAMPERS						

LIGHTING FIXTURE SCHEDULE									
FIXTURE DATA						LAMP DATA			
	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MTG ①	VOLTS VA	LAMP QTY	WATTS TYPE ②	REMARK
☐	S1	KAD LED AREA LUMINAIRE	LITHONIA LIGHTING	KAD LED 40C 1000 40K R4 MVOLT SPD 04 DDBXD	P	120 141	1	141W LED	OR APPROVED EQUAL. SSS 25 4C DM28 PL DDB (25' 4" SQUARE STEEL POLE DARK BRONZE)
☐	S2	KAD LED AREA LUMINAIRE	LITHONIA LIGHTING	KAD LED 40C 1000 40K R4 MVOLT SPD 04 DDBXD	P	120 141	2	282W LED	OR APPROVED EQUAL. SSS 25 4C DM28 PL DDB (25' 4" SQUARE STEEL POLE DARK BRONZE)
☐	S3	TWH LED WALL LUMINAIRE	LITHONIA LIGHTING	TWH LED 10C 1000 40K T3M MVOLT DDBXD	W	120 39	1	39W LED	OR APPROVED EQUAL. MOUNTING HEIGHTS VARY. REPLACE WALL LIGHTS ONE FOR ONE-SEE ARCH PLANS
NOTE: ① AC - AIRCRAFT CABLE G - GROUND R - RECESSED ST - STEM - MOUNTING STYLE C - COVE P - POLE S - SURFACE W - WALL CH - CHAIN HUNG PM - PENDANT MOUNT SC - SURFACE CEILING U - UNIVERSAL									
NOTE: ② CF - COMPACT FLUORESCENT PS - PULSE START HPS - HIGH PRESSURE SODIUM - LAMP TYPE FL - FLUORESCENT MH - METAL HALIDE IN - INCANDESCENT H - HALOGEN MV - MERCURY VAPOR LED - LIGHT EMITTING DIODE									

FIXTURES IN SCHEDULE ARE TO BE FROM THAT MANUFACTURER OR APPROVED EQUAL

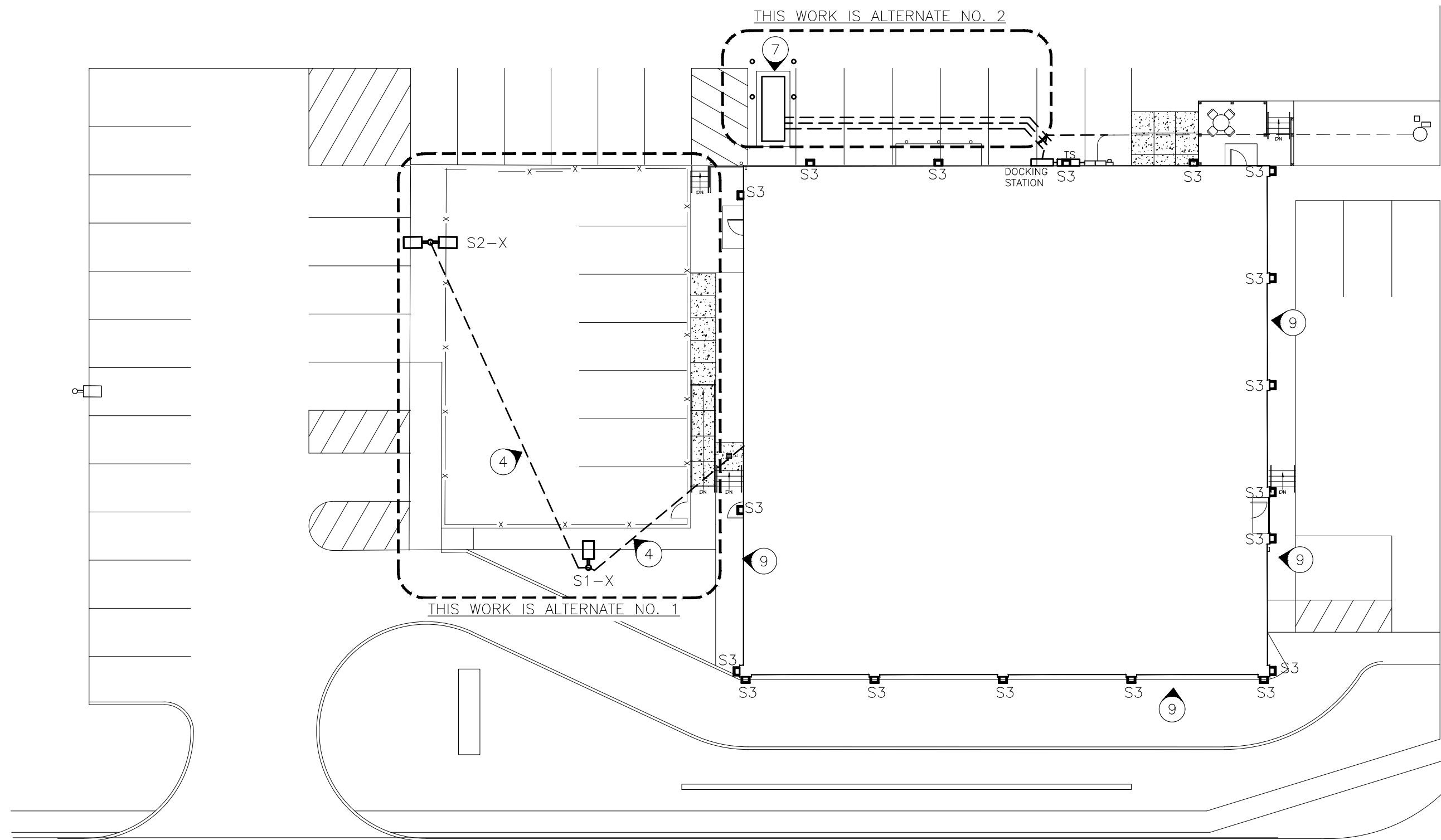
THIS WORK IS ALTERNATE NO. 1

9

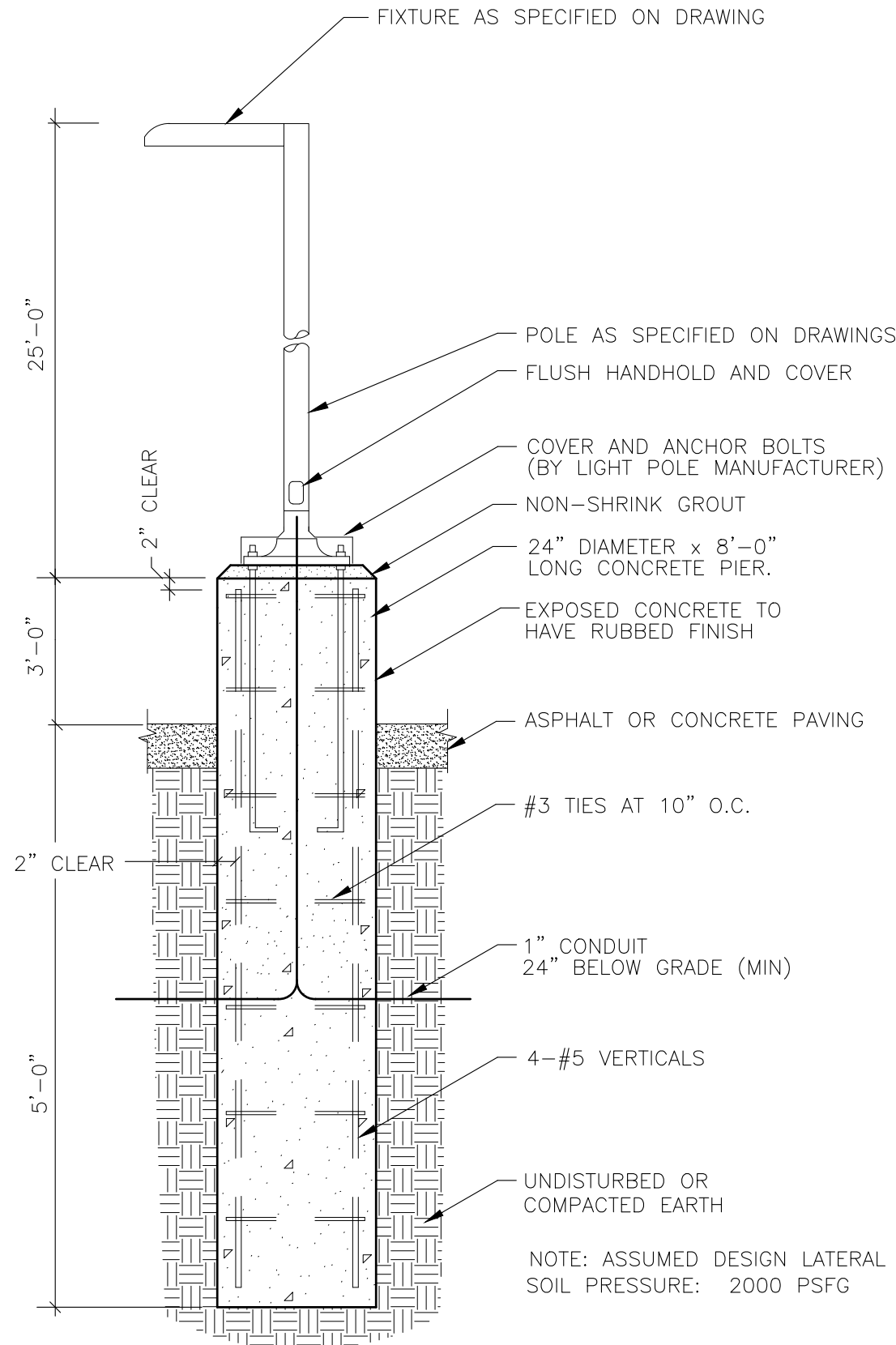
NOTE

N INDICATES KEYED NOTES

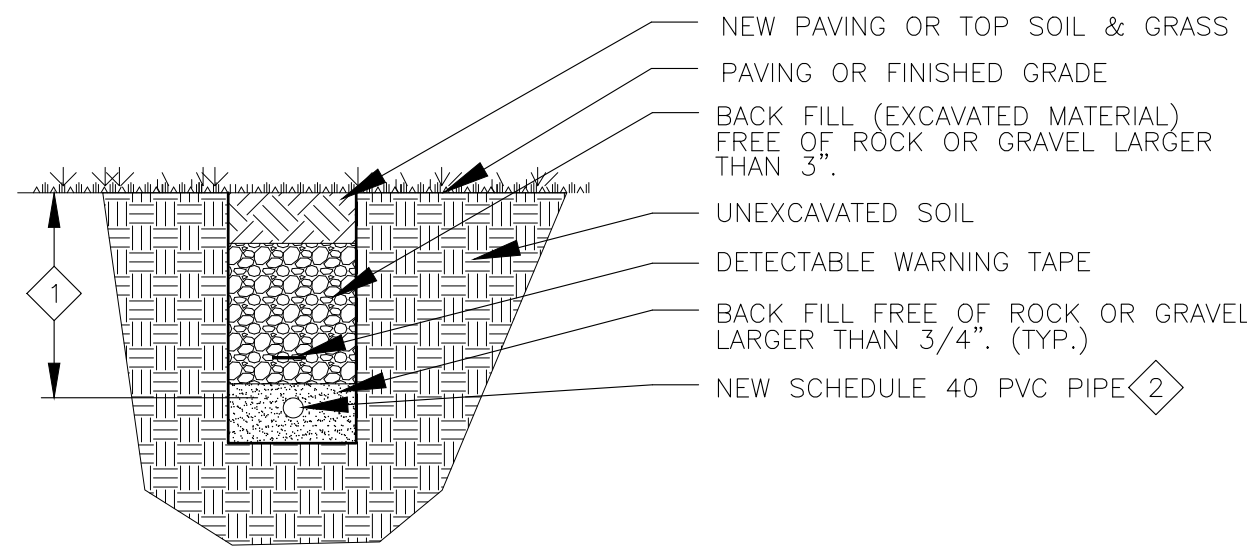
- 1 ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES AND REGULATIONS AND CURRENT NEC. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ELECTRICAL PERMITTING FEES AND COORDINATION WITH LOCAL AUTHORITY ON INSTALLATION INSPECTIONS.
- 2 GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A MINIMUM OF ONE YEAR FROM FINAL ACCEPTANCE UNLESS OTHERWISE STATED IN CONSTRUCTION SPECIFICATIONS.
- 3 COORDINATE TRENCHING WITH OTHER SITE UTILITIES.
- 4 INSTALL (2)-#12 CU THWN & (1)-#12 CU THWN GRND IN (1)-1" SCHEDULE 40 PVC CONDUIT.
- 5 EXTERIOR PARKING LOT LIGHTS TO BE CONTROLLED BY EXISTING CONTACTOR IN BANK MECHANICAL CLOSET AND PHOTOCELL NEAR EAST MAIN ENTRANCE. CIRCUIT TO WALLPACK LIGHTING. ELC TO VERIFY LOADING.
- 6 TYPE S3 WALL PACKS ARE TO BE MOUNTED ON EXISTING BOXES. EACH FACE OF BUILDING HAS THE LIGHTS AT A DIFFERENT HEIGHT. ELECTRICAL CONTRACTOR OR ELC TO REPLACE WALL LIGHTS ONE FOR ONE.
- 7 IF BID ALTERNATE NO. 2 IS SELECTED, ELC TO PROVIDE 150KW DIESEL GENERATOR, GENERATOR PAD AND BOLLARDS TO PROTECT THE GENERATOR. COORDINATE EXACT LOCATION OF GENERATOR AND PAD WITH OWNER. INSTALL ALL UNDERGROUND CONDUIT AND WIRE ALONG WITH CHANGE THE MANUAL TRANSFER SWITCHES FROM THE BASE BID TO AUTO TRANSFER SWITCHES. COORDINATE WITH GENERAL TO CUT/REPAIR PAVEMENT.
- 8 ALL WORK SHOWN IS FOR THE BASE BID EXCEPT FOR THE 3 ALTERNATES. ALTERNATE NO. 1 IS FOR THE SECURE PARKING LOT WITH FENCE AND LIGHTING. ALTERNATE NO. 2 IS FOR THE GENERATOR AND GENERATOR PAD WITH REMOTE ANNUNCIATOR AND EMERGENCY STOP BUTTON. ALTERNATE NO. 3 IS FOR THE INTERIOR LIGHTS FOR THE BANK TO BE UPGRADED TO LED WITH THE MAIN ENTRY REMAINING AS IS.
- 9 SEE SHEETS E102 AND E601 FOR BUILDING MOUNTED SIGN LIGHT DETAILS. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS. MOUNT LIGHTS 12" BELOW SIGN AND CONTROL WITH EXISTING CONTACTOR AND PHOTOCELL OR ADD EACH ITEM AS NEEDED. ELC TO VERIFY LOADING.



1 ELECTRICAL SITE LIGHTING PLAN
SCALE: 1"=20'-0"



2 LIGHT POLE PIER DETAIL FOR TYPE S1/S2 FIXTURES
SCALE: NONE



- 1 24" MINIMUM BENEATH STREETS, ALLEYS, AND PARKING. 18" UNDER GRASS.
- 2 CONDUIT CHASE FOR ELECTRIC.

3 UTILITY TRENCH DETAIL
SCALE: NONE

NOTES

N INDICATES KEYED NOTES

- 1 ALL ELECTRICAL DEVICES SHOWN TO BE REMOVED (DARK HIDDEN LINE) OR ON WALLS BEING REMOVED ARE TO BE REMOVED ALONG WITH THE WIRING BACK TO NEAREST ACTIVE OUTLET, JUNCTION BOX OR ELECTRICAL PANEL.
- 2 RELOCATE EXISTING EXIT/EMERGENCY COMBO ALONG WITH THE EXTERIOR REMOTE LIGHT TO LINE UP WITH THE NEW DOOR AND TO AVOID THE NEW CANOPY. SEE ARCHITECTURAL DRAWINGS AND SHEET E102.
- 3 REMOVE EXISTING OCCUPANCY SENSORS IN SHOWER ROOMS AND PUT IN RESTROOM CEILING. EXTEND WIRE AS NEEDED.
- 4 ALL EXTERIOR WALLPACK LIGHTS ARE TO BE REPLACED WITH LED. SEE E100 SITE PLAN.
- 5 REMOVE THIS FIXTURE AND SET ASIDE FOR THE NEW CONSTRUCTION. TO BE PLACED BACK IN CEILING IN A SHIFTED LOCATION. CLEAN FIXTURE PRIOR TO REINSTALLING.
- 6 EXISTING ELECTRICAL DEVICES SHOWN IN MAIN CORRIDOR AND SOUTH PART OF THE BUILDING ARE TO REMAIN UNLESS NOTED.

Proposed Remodeling for:
Ashlund City Hall
101 West Broadway
Ashlund, Boone County, Missouri



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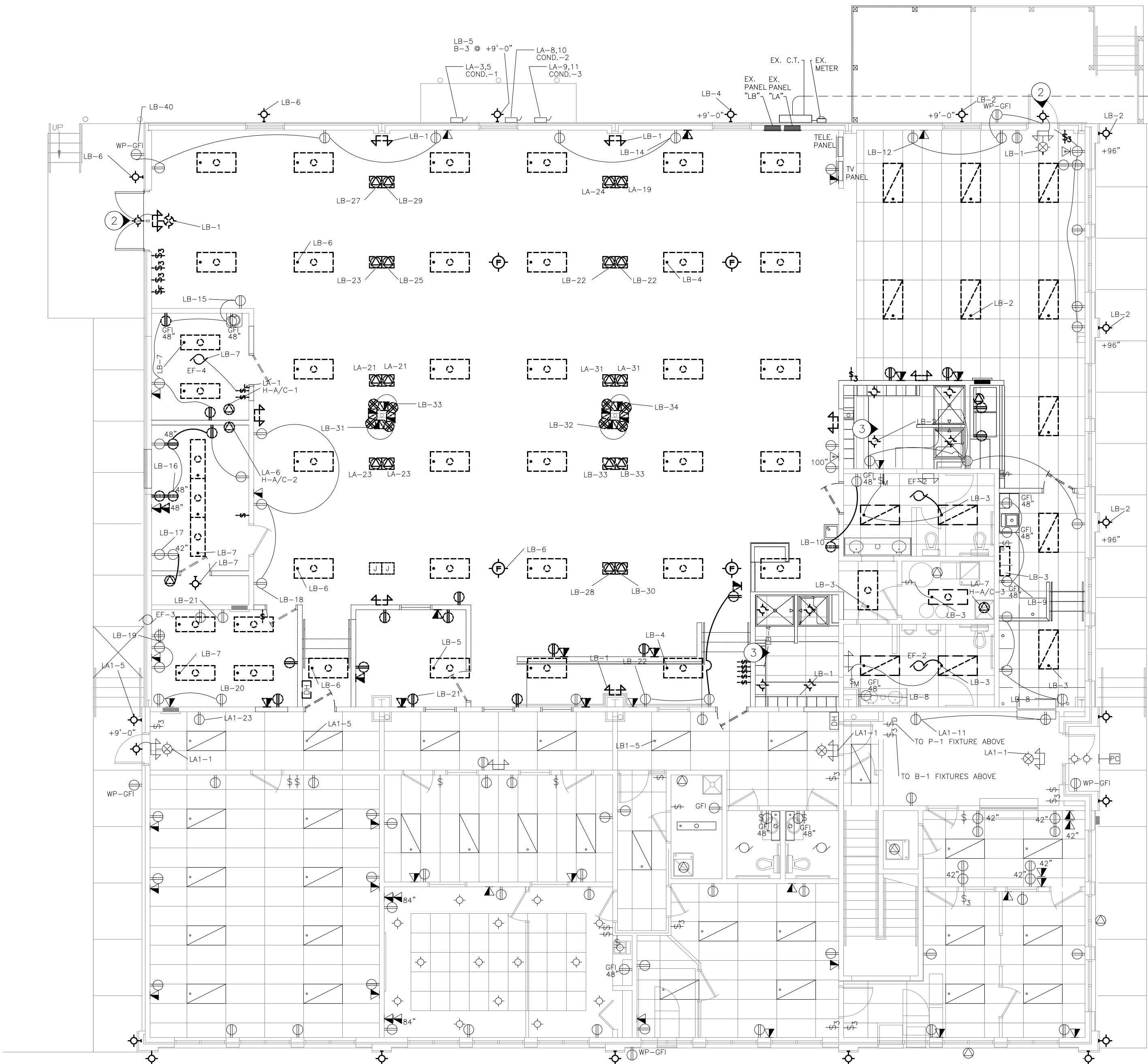
Design By: JLD/MDS
Drawn By: MDS
Checked By: JLD

Revision	Date	No.

Scale: 1/8"=1'-0"
ELECTRICAL DEMOLITION PLAN

Date: 202106.01

E101



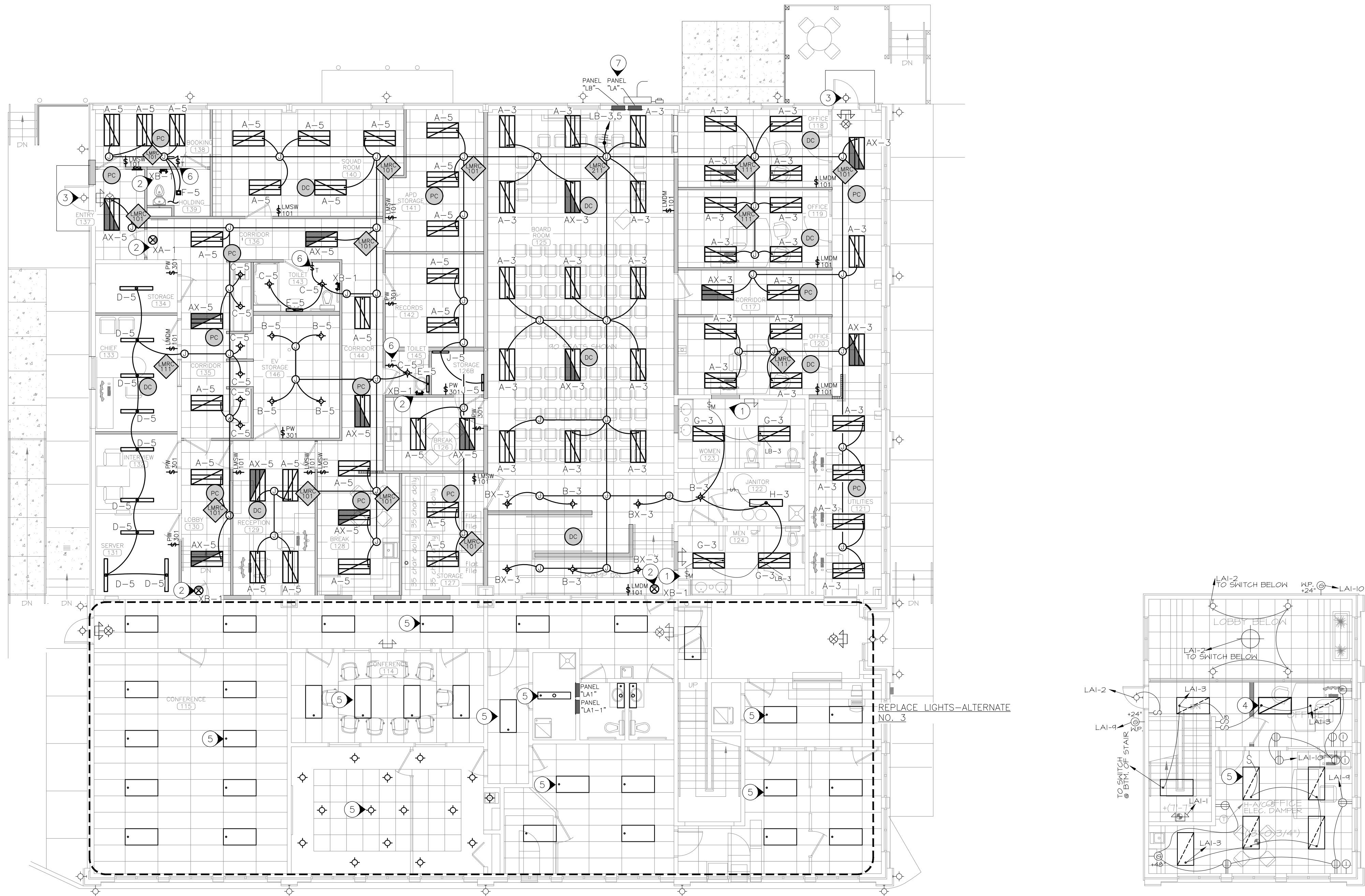
LIGHTING FIXTURE SCHEDULE									
FIXTURE DATA				LAMP DATA					
	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MTG	VOLTS	LAMP QTY	WATTS	REMARK
					①	VA		TYPE ②	
	A	2BLT4 2x4 LED RECESSED BASKET	LITHONIA LIGHTING	2BLT4 48LHE ADP 120 E21 LP835	R	120	34	1 34W LED	
	AX	2BLT LED EMERGENCY RECESSED BASKET	LITHONIA LIGHTING	2BLT4 48LHE ADP 120 E21 LP835 EL14L	R	120	34	1 34W LED	WITH 1400 LUMEN BATTERY PACK
	B	6" OPEN NON-IC LED DOWNLIGHT	LITHONIA LIGHTING	LDN6 35/20 LOGAR LSS MVOLT E210	R	120	23	1 23W LED	
	BX	6" OPEN NON-IC EMERGENCY DOWNLIGHT	LITHONIA LIGHTING	LDN6 35/20 LOGAR LSS MVOLT E210 EL	R	120	23	1 23W LED	WITH 10W CONSTANT BATTERY PACK
	C	WF6 MVOLT 6" LED MODULE DOWNLIGHT	LITHONIA LIGHTING	WF6 LED 27K30K35K 90CRI MW	R	120	14	1 14W LED	
	D	ZLTN LED STRIPLIGHT	LITHONIA LIGHTING	ZLTN L48 5000LM FST MVOLT 35K 90CRI WH	SC	120	35	1 35W LED	SURFACE MOUNTED
	E	TRADITIONAL SQUARE VANITY LED	LITHONIA LIGHTING	FMYLS 24IN MVOLT 30K 90CRI BN	W	120	18	1 18W LED	MOUNT ABOVE MIRROR SEE ARCHITECTURAL
	F	INOTIO VANDAL/RESIST. RESISTANT DOWNLIGHT	GOHAM	IC02SQVR 35/15 50L 45D 120 UGZ DWH	SC	120	20	1 20W LED	MOUNT ABOVE MIRROR SEE ARCHITECTURAL
	G	2BLT4 VOLUMETRIC 2x4 LIGHT	LITHONIA LIGHTING	2BLT4 30L ADP E21 LP835	R	120	30	1 30W LED	
	H	LINEAR LED WRAP	LITHONIA LIGHTING	FML4W 48 5000LM 840 ZT MVOLT	SC	120	54	1 54W LED	
	J	LOW PROFILE LED V-BACKGROUND	LITHONIA LIGHTING	BLWP2 33LHE ADP E21 840	W	120	33	1 33W LED	MOUNT AT 7"-0" AFF COORDINATE WITH MECHANICAL EQUIPMENT
	K	TROW - BUILDING 12" SIGN LED LIGHT	ECOSENSE	L50 E 48 04 40 80 MULT ASYM CBL-3P-L-UNV-10/WMA-L-CA-12	W	120	16	3 48W LED	MOUNT TOP 12" BELOW BOTTOM OF LETTERS JUMPERS AS NEEDED
	L	TROW - BUILDING 20" SIGN LED LIGHT	ECOSENSE	L50 E 48 04 40 80 MULT ASYM CBL-3P-L-UNV-10/WMA-L-CA-12	W	120	16	5 80W LED	MOUNT TOP 12" BELOW BOTTOM OF LETTERS-JUMPERS AS NEEDED. FEED POWER FROM EACH END
	XA	SHUNTUM LED EXIT LIGHT	LITHONIA LIGHTING	ELM2L M12	SC	120	2	1 2W LED	
	XD	ELM2L QUANTUM LED EMERGENCY LIGHT	LITHONIA LIGHTING	ELM2L M12	W	120	1	2 2W LED	EMERGENCY MOUNT AT 7" AFF
NOTE: ① MOUNTING STYLE: A - AIRCRAFT CABLE, C - COVE, CH - CHAIN, HUNG, CF - COMPACT FLUORESCENT, FL - FLUORESCENT, H - HALOGEN, ② LAMP TYPE: G - GROUND, P - POLE, PM - PENDANT MOUNT, PS - PULSE START, HPS - HIGH PRESSURE SODIUM, MH - METAL HALIDE, MV - MERCURY VAPOR, R - RECESSED, S - SURFACE, SC - SURFACE CEILING, ST - STEM, W - WALL, U - UNIVERSAL, -									
NOTE: ③ LIGHT FIXTURES SHOWN ARE TO BE AS DESIGNED OR APPROVED EQUAL.									

GENERAL NOTES

- ALL EXPOSED LINE VOLTAGE WIRING SHALL BE PULLED IN PROPERLY SIZED CONDUIT (EMT) WITH APPROVED FITTINGS. ALL WIRE IS TO BE COPPER. ALL CONDUIT IS TO BE RUN NEATLY AND PARALLEL TO BUILDING LINES. INSTALL PULL BOXES ON ANY RUNS THAT REQUIRE MORE THAN 360° WORTH OF BENDS. USE OF MC CABLE IN CONCEALED AREAS, (WALLS AND HARD CEILINGS ONLY), OF THE BUILDING IS ALLOWED BUT MUST BE SUPPORTED PER NEC REQUIREMENTS. EMT AND JUNCTION BOXES WITH AN MC WHIP OF 6 FEET OR LESS FOR ALL EXPOSED CEILINGS AND ALL LAY-IN CEILINGS.
- ALL LINE VOLTAGE WIRE SHALL BE TYPE THHN OR THWN, #12 COPPER OR LARGER, UNLESS OTHERWISE NOTED. ANY 20A LOADS FED FURTHER THAN 55' SHALL BE INCREASED TO A #10 COPPER CONDUCTOR.
- ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES AND REGULATIONS AND CURRENT NEC. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ELECTRICAL PERMITTING FEES AND COORDINATION WITH LOCAL AUTHORITY ON INSTALLATION INSPECTIONS.
- A GREEN INSULATED GROUNDING CONDUCTOR SHALL BE INSTALLED TO ALL ELECTRICAL DEVICES AND SOLIDLY CONNECTED TO THE METAL FRAME OF THE DEVICE.
- SWITCHES SHOWN TO REMAIN WILL RECEIVE NEW DEVICE AND COVER.
- COVER PLATES IN ALL AREAS SHALL BE STAINLESS STEEL. ALL DEVICES SHALL BE SPECIFICATION GRADE AND WHITE IN COLOR. DIMENSIONS GIVEN AS (XX") IS TO CENTERLINE OF DEVICE. ALL LIGHT SWITCHES ARE AT 48" AFF TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
- ALL MOTOR CONNECTIONS ARE TO BE WITH FLEXIBLE CONDUIT, NOT TO EXCEED 6' IN LENGTH.
- GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A MINIMUM OF ONE YEAR FROM FINAL ACCEPTANCE UNLESS OTHERWISE STATED IN CONSTRUCTION SPECIFICATIONS.
- ELC MAY REUSE EXISTING CONDUIT IF IT IS FEASIBLE. IF NOT FEASIBLE, ELC TO RUN NEW EMT AND MC WHIPS (MAX. 6') TO FIXTURES.
- EXHAUST FAN ABOVE CEILING OF NEW BATHROOM TO BE CIRCUITED WITH THE BATHROOM LIGHTS AND SHALL BE CONNECTED TO FAN DELAY TIMED SWITCH. LIGHTS GO OFF BUT FAN STAYS RUNNING FOR PRESET TIME. SET TIME DELAY TO 10 MINUTES. SWITCH TO BE EFI FAN DELAY TIMER OR EQUIVALENT.

NOTES

- THIS RESTROOM HAS A MOTION SENSOR SWITCH TO TURN LIGHTS ON. ADD NEW LED LIGHT FIXTURE. EMERGENCY LIGHT FIXTURE TO REMAIN. MOVE MOTION SENSOR TO AN APPROPRIATE LOCATION AS NEEDED. PLACE SALVAGED OCCUPANCY SENSORS IN NEW CEILING IN APPROPRIATE LOCATION. EXTEND WIRE AS NEEDED.
- WIRE NEW EXIT AND EMERGENCY LIGHTS TO LB-1. ELC TO VERIFY LOADING AND CIRCUIT NUMBER.
- EXISTING REMOTE EMERGENCY FIXTURE LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS FOR NEW AWNING ABOVE. AWNING TO BE LOCATED SO BOTTOM OF AWNING IS AT 8'-0" AFF. LIGHT IS TO BE OFFSET TO THE OPENING SIDE OF THE DOOR AS HIGH AS POSSIBLE. COORDINATE WITH GENERAL TO PATCH ANY EXISTING WALL PENETRATIONS TO A WATER TIGHT CONDITION.
- EXISTING LIGHT REMOVED AND CLEANED DURING DEMOLITION TO BE INSTALLED AT THIS LOCATION. EXTEND ALL CONDUIT AND WIRING AS NEEDED. SWITCHING TO REMAIN AS IS.
- ALTERNATE NO. 1 IS TO REPLACE ALL THE EXISTING LIGHTS ON THE BANK SIDE AND THE SECOND FLOOR WITH NEW LED LIGHTING. FIXTURES TO MATCH LIGHT FIXTURE SCHEDULE. ALL FIXTURES ARE FED FROM BANK PANEL LA1. FIXTURE LOCATIONS ARE TO REMAIN.
- ELC TO PROVIDE AND INSTALL EFI FAN DELAY TIMER SWITCH. CONNECT FAN TO LIGHT CIRCUIT. LIGHTS GO ON WITH FAN. LIGHTS GO OFF AND FAN RUNS 10 MINUTES. SEE POWER SHEET FOR FAN.
- THIS ELECTRIC PANEL IS TO BE REMOVED AND REPLACED WITH ANOTHER SIMILAR PANEL WITH MORE SPACES. SEE ELECTRICAL RISER DETAILS ON SHEET E501.
- FOR BUILDING SIGN LIGHTS, SEE LIGHT FIXTURE SCHEDULE THIS SHEET AND SHEET E601. ELC TO CIRCUIT ALL BUILDING LIGHTS TO "LA-50". LIGHTS TO BE CONTROLLED BY EXISTING CONTACTOR IN BANK MECHANICAL CLOSET AND PHOTOCCELL NEAR EAST MAIN ENTRANCE. ADD PHOTOCCELL IF NEEDED. ELC TO VERIFY LOADING.



1 FIRST FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/8"=1'-0"

2 SECOND FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/8"=1'-0"

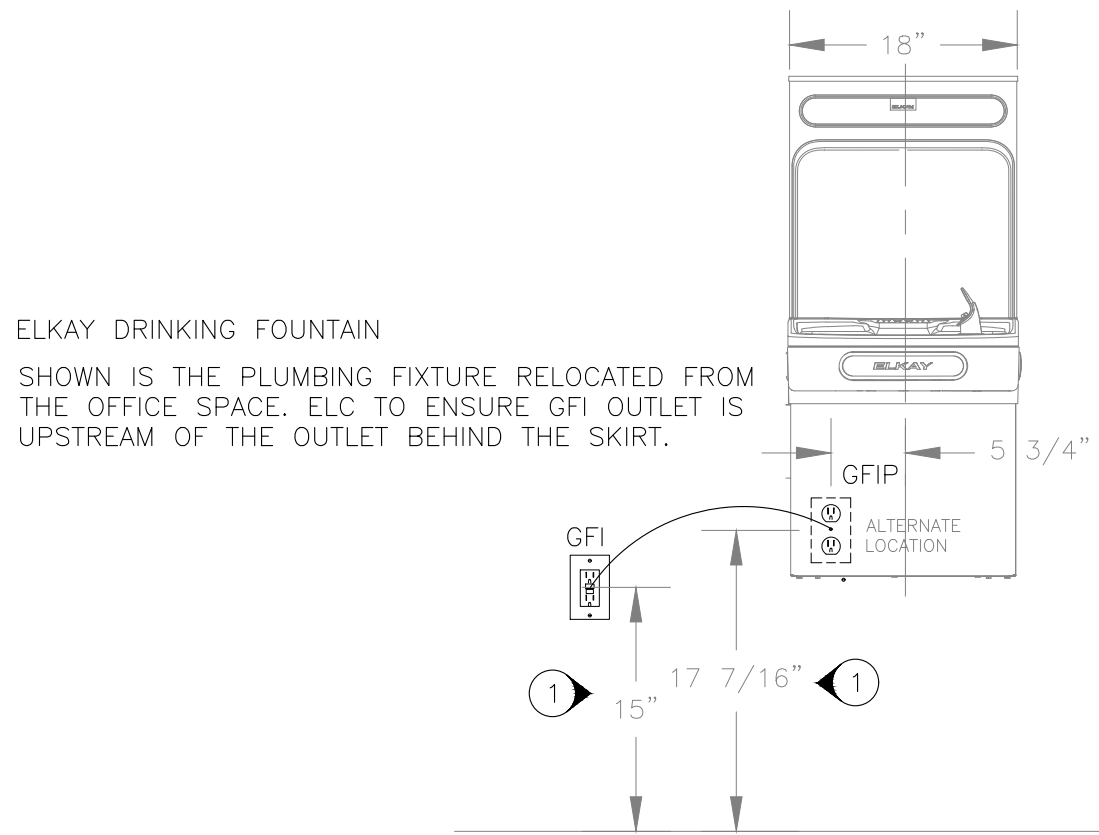
ELECTRICAL LEGEND

FIXTURE TYPE	SWITCH DESIGNATION	CIRCUIT NUMBER

LIGHT CONTROL DEVICES ARE TO BE WATTSTOPPER OR AN APPROVED EQUAL. LOW VOLTAGE WIRE IS NOT SHOWN.

LIGHT CONTROL LEGEND

	LMDC-100; DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR
	LMPC-100; PIR CEILING MOUNT OCCUPANCY SENSOR
	LMRC-101; SINGLE RELAY ROOM CONTROLLER
	LMRC-111; LOW VOLTAGE DIMMING SINGLE RELAY ROOM CONTROLLER
	LMRC-211; LOW VOLTAGE DIMMING SINGLE RELAY ROOM CONTROLLER
	LMSW-102-W; 1-BUTTON LOW VOLTAGE WALL SWITCH (WHITE)
	PW-301-W; PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR (WHITE)
	LMDM-101-W; ONE BUTTON DIMMING WALL SWITCH



1 BOTTLE FILLER DRINKING FOUNTAIN ELECTRICAL DETAIL
SCALE: NONE

GENERAL NOTES

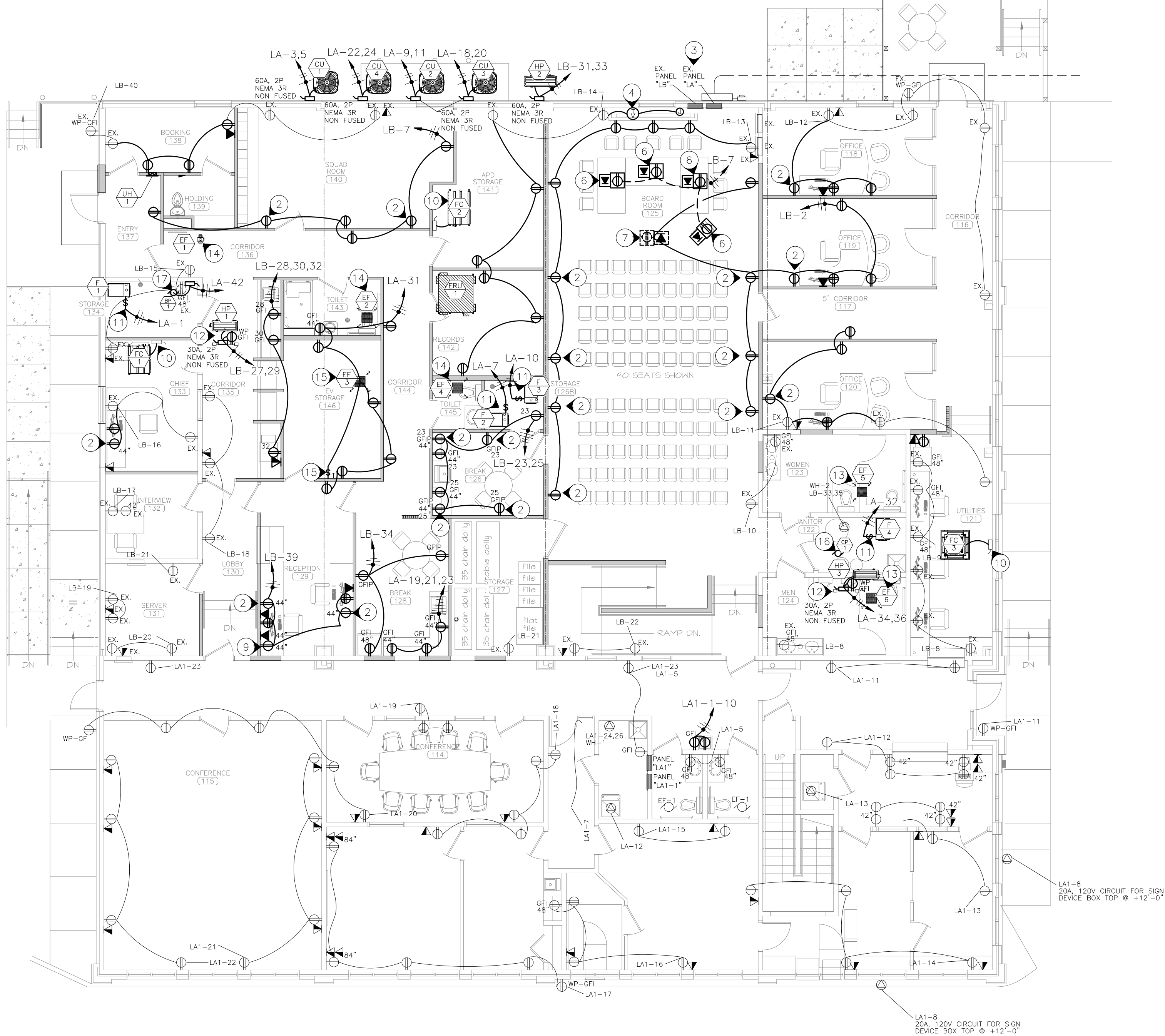
- DRAWINGS PROVIDED FOR EXISTING CONDITIONS COULD NOT BE ENTIRELY VERIFIED. ELC TO VERIFY CIRCUITING AND REPORT ANY LARGE DISCREPANCIES TO ENGINEER AS SOON AS POSSIBLE. ALL DEVICES MAY NOT BE SHOWN. FIELD VERIFY.
- ALL GENERAL PURPOSE RECEPTACLES SHALL BE 2 POLE 3 WIRE GROUNDING TYPE 5-20R RATED FOR 20 AMPERE. RECEPTACLES IN THE WEST AND EAST WALL OF THE BOARD ROOM ARE TO BE TAMPER RESISTANT. RUN SEPARATE NEUTRAL WIRE FOR ALL CIRCUITS WITH GFI OUTLETS.
- ELECTRICAL CONTRACTOR (ELC) IS TO SUPPLY AND INSTALL ALL CONDUIT AND ALL LINE VOLTAGE WIRING. COORDINATE WITH MECHANICAL CONTRACTOR TO SUPPLY AND RUN CONDUIT FOR MECHANICAL SYSTEM LOW VOLTAGE WIRING. COORDINATE WITH OTHER DISCIPLINES TO RUN CONDUIT FOR OTHER LOW VOLTAGE WIRING.
- FURNISH AND INSTALL ALL FUSES, BREAKERS, RECEPTACLE, PLATES, ETC. TO COMPLETE THE BRANCH CIRCUITS INDICATED. ALL ELECTRICAL PANELS ARE TO HAVE COPPER BUSSING.
- COVER PLATES IN ALL AREAS SHALL BE STAINLESS STEEL. ALL DEVICES NEW AND EXISTING SHALL BE SPECIFICATION GRADE AND WHITE IN COLOR. COORDINATE ALL MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- INSTALL 4 SQUARE W/SINGLE GANG MUD RING 18" AFF. (UNLESS NOTED OTHERWISE). AT EACH PHONE/DATA LOCATION. RUN ONE 3/4" CONDUIT FROM 4 SQUARE TO NEAREST ACCESSIBLE CEILING SPACE. ELC PROVIDES ALL DATA (CAT6) AND PHONE DEVICES. CONDUIT FROM EACH TO ABOVE CEILING. OWNER TO PROVIDE DATA SWITCH AND DATA PATCH PANEL AND DO FINAL PUNCH DOWNS. ELC TO ROUTE DATA HOME RUNS TO SERVER ROOM.
- IF ANY MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT SPECIFIED IN THE DRAWINGS IS SUBSTITUTED BY A CONTRACTOR, THAT CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE EQUIPMENT'S ELECTRICAL PROTECTION PER THE MANUFACTURER'S NAMEPLATE, AND THE CURRENT NEC, ALONG WITH ALL EXPENSES INCURRED DUE TO SAID SUBSTITUTION. THE CONTRACTOR WHO IS PROVIDING THE SUBSTITUTION SHALL COORDINATE WITH ALL DISCIPLINES AFFECTED BY THIS CHANGE.
- DISCONNECTS SHOWN LIGHT WITHOUT SPECIFIC INFORMATION ARE PROVIDED AND INSTALLED BY THE FACTORY. DISCONNECTS SHOWN HEAVY WITH SIZE RATINGS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE MECHANICAL SCHEDULES.
- NEW GFI OUTLET TO PROTECT THE OUTLET BEHIND THE NEW DRINKING FOUNTAIN SKIRT. MOUNT GFI OUTLET BEHIND SKIRT AT MANUFACTURER'S SUGGESTED HEIGHT. USE NEW GFI OUTLET TO RESET CIRCUIT. SEE DETAIL 1 THIS SHEET.
- OUTLET AND LIGHT SWITCH DIMENSIONS ARE TO CENTER OF BOX.
- ELC TO MARK ALL DEVICE COVERS WITH PANEL AND CIRCUIT INFORMATION FOR "LA" AND "LB" USING A LABEL MAKER, BLACK NUMBERS ON WHITE BACKGROUND. ALL BREAKERS THAT HAVE NO LOAD ARE TO BE IDENTIFIED AS A SPARE AND MARKED IN PANEL AS SUCH. TURN BREAKER OFF.
- WHERE AN EXISTING OUTLET/DATA/PHONE IS SHOWN TO STAY, ELC TO REPLACE THE DEVICE AND COVER PLATE. CIRCUITING TO REMAIN AS SHOWN OR AS ELC VERIFIED.

N INDICATES KEYED NOTES

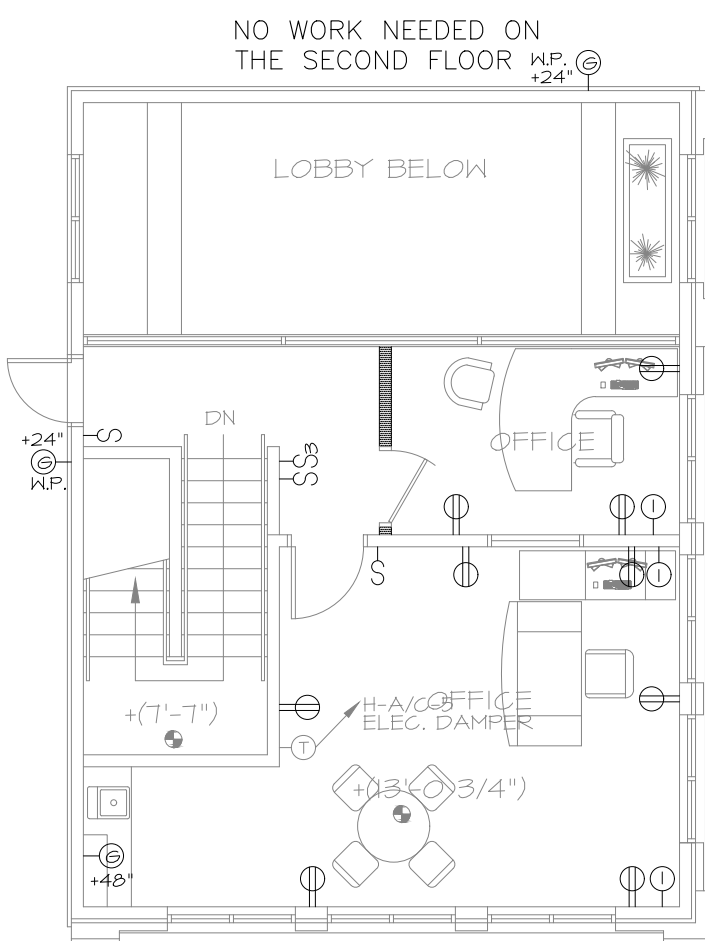
NOTES

- OUTLET AND LIGHT SWITCH DIMENSIONS ARE TO CENTER OF BOX-TYPICAL.
- THIS RECEPTACLE IS TO HAVE (2) USB CHARGING PORTS (1-TYPE A AND 1-TYPE C) (LEVITON DECORA OR EQUAL). HEIGHT TO BE 18" AFF UNLESS NOTED OTHERWISE.
- THIS EXISTING PANEL TO BE REPLACED WITH NEW 54 SPACE 400A 1P 3W MAIN BREAKER PANEL. SEE RISER DETAILS ON SHEET E501.
- ELC TO PROVIDE RECESSED FLAT TV CONNECTION KIT, (LEGRAND HT2102-WH-V1 OR EQUAL), WITH 1 DUPLEX OUTLET AND 1 CABLE/DATA. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR HEIGHT.
- SAW CUT EXISTING CONCRETE TO ALLOW FOR THE INSTALLATION OF POWER TO FLOOR BOXES SHOWN. COORDINATE WITH PLUMBING CONTRACTOR.
- ELC TO PROVIDE AND INSTALL THOMAS & BETTS STEEL CITY 668-S SERIES ULTRA SHALLOW FLOOR BOX (BLACK) WITH DUPLEX OUTLET AND (6) DATA JACKS (668S-6RJ) OR EQUAL. PROVIDE APPROPRIATE TRIM RING TO MATCH FLOOR FINISH. COORDINATE WITH OWNER FOR EXACT PLACEMENT. RUN (1) 1/2" EMT FROM DEVICE UNDER FLOOR AND UP WALL TO ACCESSIBLE CEILING SPACE FOR POWER, (1) 1" EMT FROM DEVICE UNDER FLOOR AND UP WALL TO ACCESSIBLE CEILING SPACE FOR FUTURE SOUND BY OTHERS AND (1) 1" EMT UNDER FLOOR UP WALL TO ACCESSIBLE CEILING SPACE FOR DATA. COORDINATE WITH OWNER.
- ELC TO PROVIDE AND INSTALL POWER AND DATA IN THE CEILING AT THIS LOCATION. VERIFY EXACT LOCATION WITH ARCHITECTURAL PLANS. INSTALL (2) 1/2" CONDUITS IN CEILING TO PROJECTOR LOCATION FOR POWER AND DATA. COORDINATE WITH OWNER FOR AUDIO WIRE.
- ELC TO USE CIRCUIT LB-14 TO POWER UP THE PROJECTOR SCREEN. COORDINATE WITH MANUFACTURER'S INSTRUCTIONS.
- ELC TO PROVIDE A 120V OUTLET AND DATA OUTLET ABOVE THE DESK AT THIS GENERAL LOCATION FOR DOOR SECURITY SYSTEM. COORDINATE EXACT LOCATION WITH SECURITY PROVIDER. CAT 5 CABLE FROM DEVICE TO SERVER ROOM. SEE E104.
- INDOOR UNIT (MINI SPLIT) GETS IT'S POWER FROM THE OUTSIDE UNIT. ELC TO CONNECT POWER TO INDOOR UNIT THROUGH THE FACTORY SUPPLIED DISCONNECT SWITCH. MOUNT HIGH ON WALL.
- CONTRACTOR TO PROVIDE AND INSTALL BUSSMANN SSU FUSED DISCONNECT. SIZE PER MANUFACTURER'S NAME PLATE DATA. MOUNT TO SIDE OF UNIT IN HANDY BOX.
- ELC TO PROVIDE AND INSTALL ROOF MOUNTED UNISTRUT RACK FOR ELC PROVIDED WP-GFI AND EQUIPMENT DISCONNECT. SEAL ALL ROOF PENETRATIONS TO A WATER TIGHT CONDITION. SEE NOTE 10 ABOVE.
- EXISTING FANS WERE CONTROLLED BY THE LIGHTS AND WERE REMOVED IN DEMOLITION BUT LIGHT CONTROLS REMAINED. ELC TO CONNECT THIS NEW EXHAUST FAN TO LIGHT CIRCUIT SO THE FAN COMES ON WITH THE LIGHTS AND RUNS FOR A SET TIME AFTER THE LIGHTS GO OFF. COORDINATE WITH OWNER ON TIME LIMIT.
- CONNECT THIS EXHAUST FAN TO LIGHT CIRCUIT. SEE LIGHTING SHEET. CONTROLLED BY TIMED SWITCH.
- CONNECT THIS EXHAUST FAN TO THE RECEPTACLE CIRCUIT. SUPPLY AND INSTALL A TIMED SWITCH TO RUN FAN. SWITCH TO BE GE IN-WALL DIGITAL COUNTDOWN TIMER OR EQUAL. MOUNT SWITCH PER OWNER DIRECTION.
- CIRCULATION PUMP (CP-1) REQUIRES 120V POWER AND HAS AN ELECTRIC TIMER. TIMER IS TO BE MOUNTED TO PUMP AND 120V RUN TO TIMER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. POWER FROM LIGHTING CIRCUIT.
- BOOSTER PUMP (BP-1) TO HAVE A DISCONNECT FOR THE 1/2 HP 120V MOTOR. ELC TO PROVIDE AND CONNECT TO A DEDICATED CIRCUIT PER MANUFACTURER'S INSTALL INSTRUCTIONS. PLACE AT 48" AFF. COORDINATE WITH OTHER EQUIPMENT BEING ADDED.

N INDICATES KEYED NOTES



2 FIRST FLOOR ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"



3 SECOND FLOOR ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL LEGEND

	DUPLEX RECEPT.- 120V GROUNDING TYPE STANDARD MOUNTING HEIGHT 18" AFF
	DUPLEX RECEPT.- 120V GROUND FAULT TYPE
	DUPLEX RECEPT.- 120V GFI: WEATHER PROOF
	DUPLEX RECEPT.- 120V GROUND FAULT TYPE
	QUAD RECEPT.- 120V GROUNDING TYPE
	FLOOR MOUNTED DEVICE - OR
	CEILING MOUNTED - SEE SHEET NOTES
	JUNCTION BOX
	HOME RUN-SHORT STROKES INDICATE PHASE OR SWITCHED WIRES, LONG STROKE INDICATE NEUTRAL, LONG WITH DOT INDICATE GROUND
	MOTOR- SEE EQUIPMENT DATA SCHEDULE
	EXISTING FLUSH MOUNTED PANEL
	NON FUSED DISCONNECT SWITCH
	ELECTRIC HEATING EQUIPMENT
	DATA OUTLET- 18" AFF UNLESS NOTED
	PHONE/DATA OUTLET-18" AFF UNLESS NOTED
	CABLE TV - POWER/DATA/AUDIO

UNIT HEATER SCHEDULE

MARK	MODEL	DESCRIPTION	SPECIFICATION	REMARK
QMARK	CWH1101DSAF	WALL MOUNTED	1000 WATTS 120V/1-8.4A	HEAVY DUTY HEATING ELEMENT FAN DELAY
ARCHITECTURAL	FAN-FORCED	ELECTRIC	65 CFM= 3,413 BTU/HR	WALL BOX FOR 2x4 WALL PROVIDED
		HEATER	BRONZE	DIMENSIONS - 12 1/8"H x 9 1/4"W x 4"D

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Drawn By: MDS

Checked By: JLD

Revision	Date	No.

Scale: VARIES

ELECTRICAL POWER PLAN

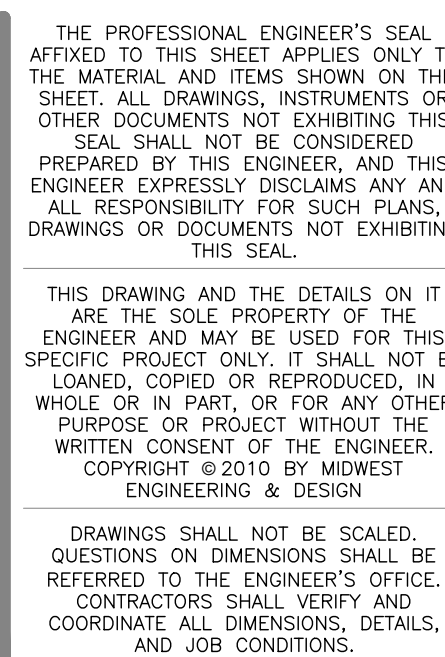
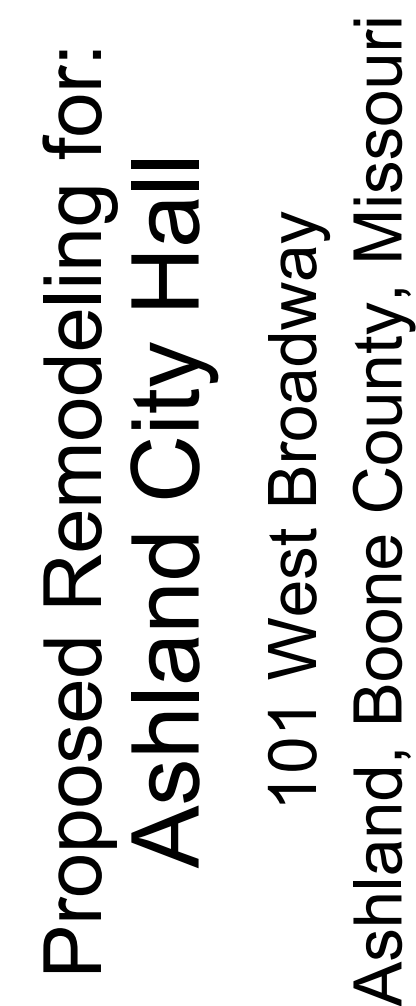
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E103

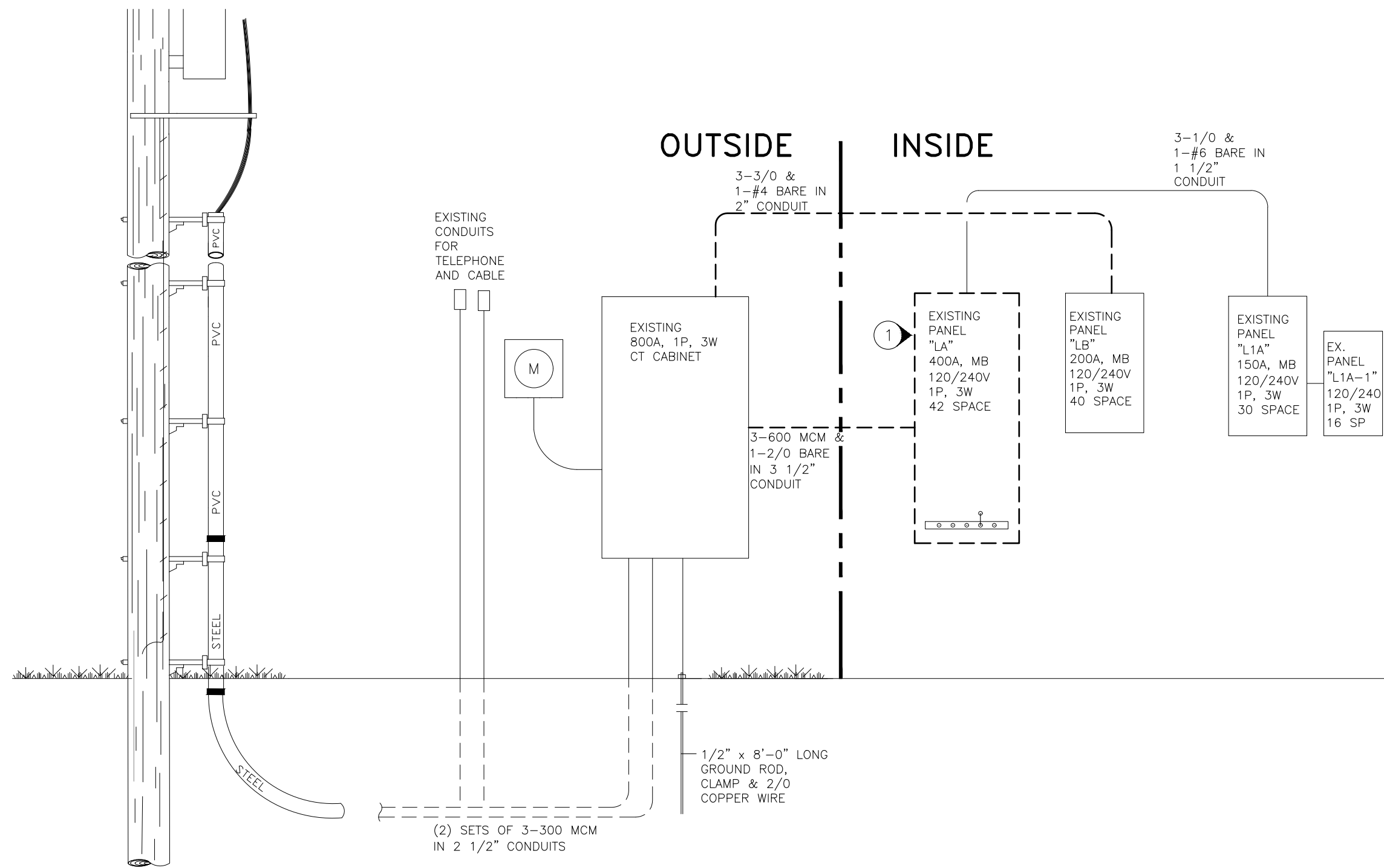


 INDICATES KEYED NOTES

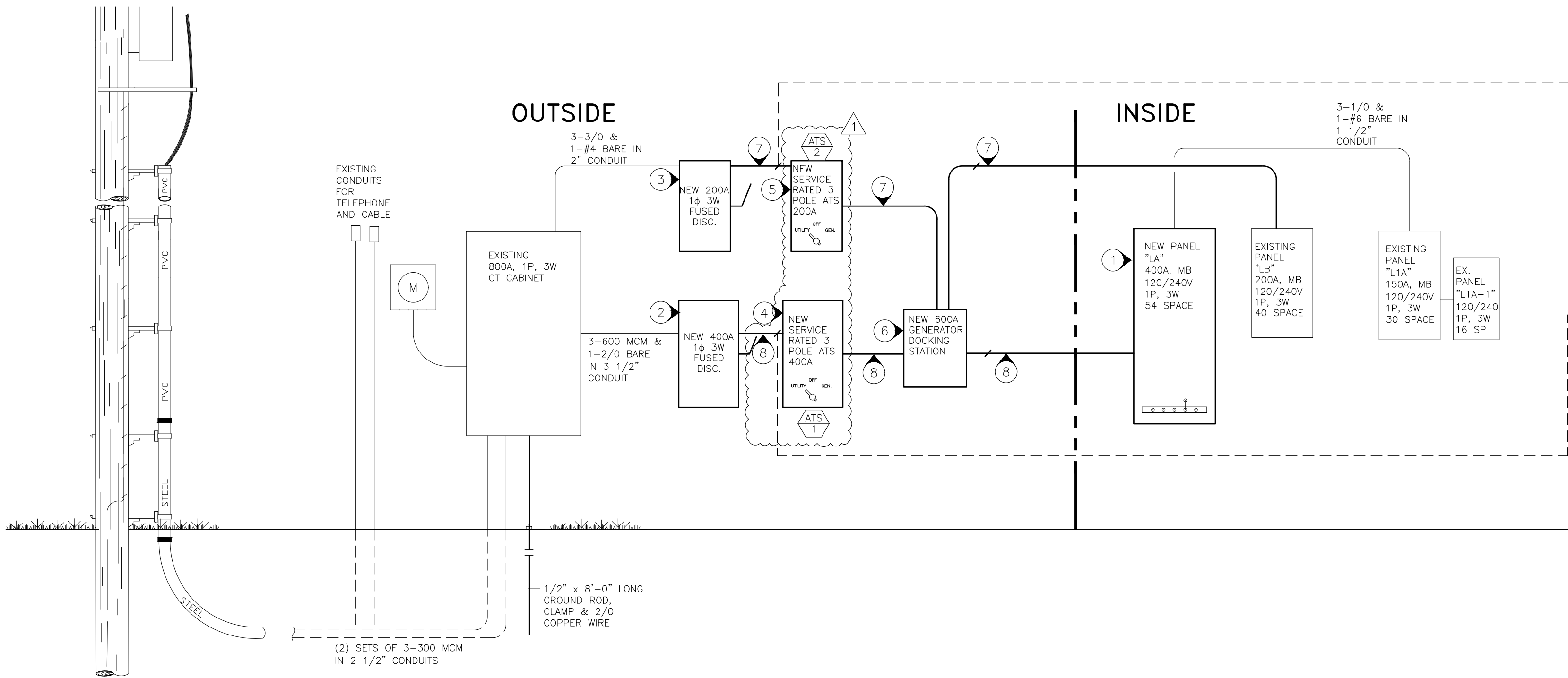
- ① AT THIS LOCATION ELC IS TO PROVIDE A ROUGH IN FOR A SECURITY KEY PAD AND CONTROLLER. INSTALL RECESSED SINGLE GANG CABLE BOX AT 44" AFF WITHIN 18" OF THE DOOR KNOB AND 3/4" CONDUIT TO ABOVE CEILING WITH CATS CABLE. PLACE CAT 5 CABLE IN BOX WITH 24" OF EXTRA CABLE AND RUN A HOME RUN TO THE SERVER ROOM. INSTALL A 3-GANG RECESSED BOX MOUNTED ON OPPOSITE SIDE OF DOOR FOR CONTROLLER IN ACCESSIBLE SPACE ABOVE DOOR WITH 12" OF EXTRA CAT 5 CABLE IN THE BOX AND A HOME RUN TO THE SERVER ROOM. PLACE A 120V RECEPTACLE ABOVE THE CEILING FOR POWER SUPPLY TO RETRACT THE DEVICE. BOTH ENDS OF ALL CAT 5 TO HAVE RJ45 ENDS ATTACHED. LABEL EACH END OF CAT 5 CABLES. COORDINATE WITH SECURITY PROVIDER MATT BUDYOS WITH ELLIOT SYSTEMS AT 636-366-8400.
- 2 CONTROLLERS, CARD READERS, DOOR LOCKS, LOW VOLTAGE WIRE, SWITCHES AND MASTER CONTROL STATIONS BY OTHERS. ELC TO PROVIDE ROUGH INS FOR THE SECURITY DOOR SYSTEM ALONG WITH CATS CABLE WITH RJ45 ENDS. EXTRA CABLE AT DEVICES AND HOME RUNS TO SERVER ROOM. COORDINATE WITH MATT BUDYOS.
- ③ AT THIS LOCATION ELC IS TO PROVIDE A ROUGH IN FOR A SECURITY KEY PAD AND CONTROLLER. INSTALL RECESSED SINGLE GANG CABLE BOX AT 44" AFF WITHIN 18" OF THE DOOR KNOB AND 3/4" CONDUIT TO ABOVE CEILING WITH CATS CABLE. PLACE CAT 5 CABLE IN BOX WITH 24" OF EXTRA CABLE AND RUN A HOME RUN TO THE SERVER ROOM. INSTALL A 3-GANG RECESSED BOX MOUNTED ON OPPOSITE SIDE OF DOOR FOR CONTROLLER IN ACCESSIBLE SPACE ABOVE DOOR WITH 12" OF EXTRA CAT 5 CABLE IN THE BOX AND A HOME RUN TO THE SERVER ROOM. PLACE A JUNCTION BOX WITH 120V POWER FROM LIGHTING CIRCUIT ABOVE THE CEILING FOR LOW VOLTAGE POWER. TRANSFORMER BY OTHERS. BOTH ENDS OF ALL CAT 5 TO HAVE RJ45 ENDS ATTACHED. LABEL EACH END OF CAT 5 CABLES. COORDINATE WITH SECURITY PROVIDER MATT BUDYOS WITH ELLIOT SYSTEMS AT 636-366-8400.
- ④ PROVIDE POWER AND DATA OUTLETS FOR SYSTEM CONTROLLER NEAR THIS LOCATION. COORDINATE WITH OWNER AND MATT BUDYOS.
- ⑤ ELC TO PROVIDE AND INSTALL 2" PVC CONDUIT UNDERGROUND WITH CATS CABLE AND RJ45 ENDS FROM SERVER ROOM TO GATE FOR SECURITY. PROVIDE 120V POWER FOR LOW VOLTAGE TRANSFORMER BY OTHERS. RUN CONDUIT UP AT THE DESIGNATED LOCATION TO ABOVE GROUND AND CAP FOR SECURITY DEVICE CONNECTIONS. COORDINATE WITH MATT BUDYOS. THIS WORK IS TO BE BID AS ALTERNATE NO. 1.



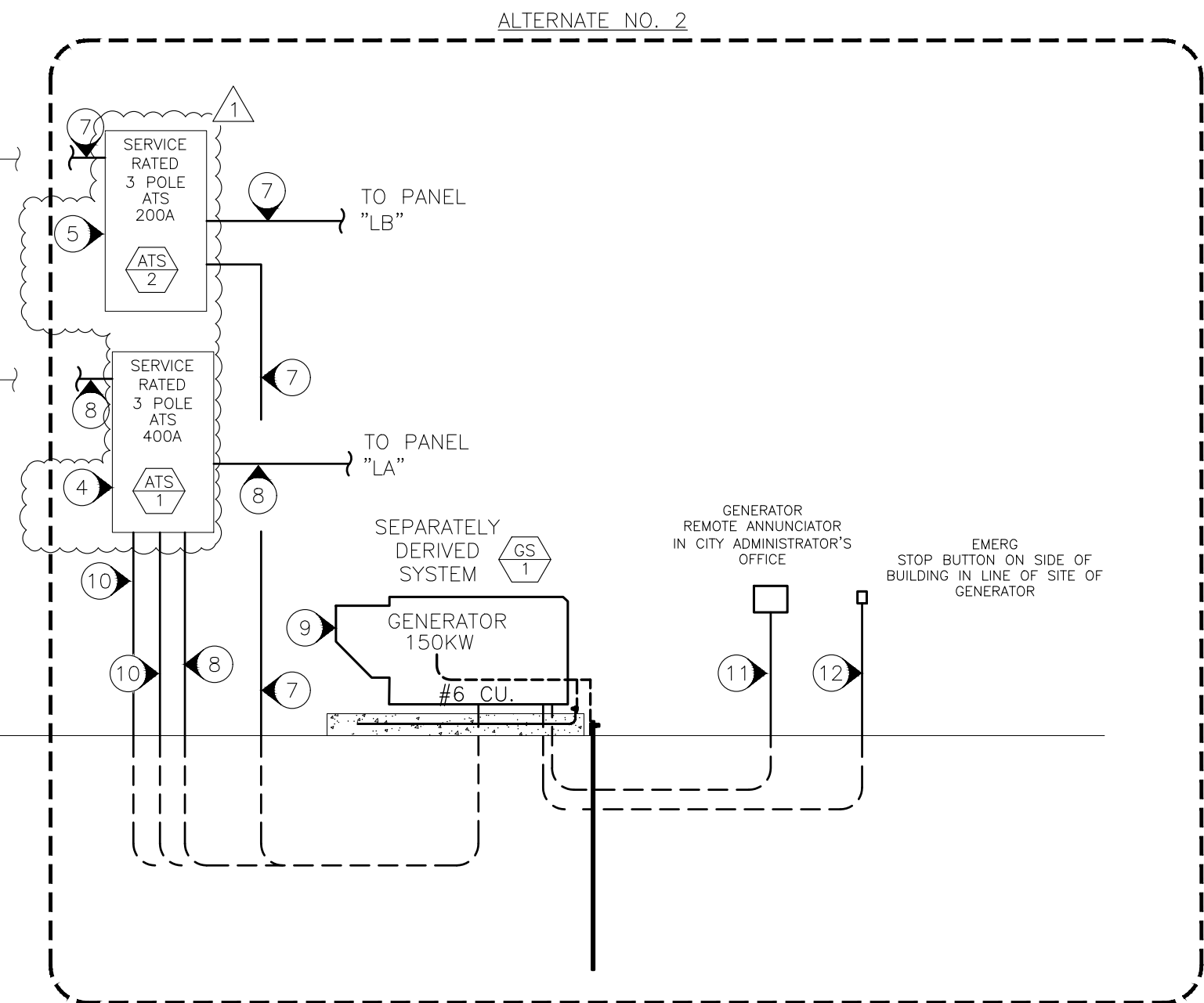
E104



1 EXISTING ELECTRICAL RISER DETAIL
NO SCALE



2 NEW ELECTRICAL RISER DETAIL
NO SCALE



NOTES

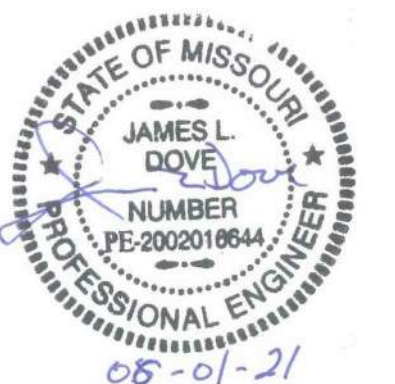
N INDICATES KEYED NOTES

- 1 REMOVE/REPLACE EXISTING 400A PANEL. NEW PANEL TO BE 120/240V, 400A, MAIN BREAKER, SERVICE ENTRANCE RATED, 54 SPACE, COPPER BUS, RECESSED (SCHNEIDER ELECTRIC NQ OR EQUAL). REUSE AS MANY OF THE EXISTING CIRCUIT BREAKERS AS POSSIBLE. ENSURE NEW PANEL CAN ACCEPT THE EXISTING BREAKERS BEFORE ORDERING. SUPPLY WITH BREAKERS SHOWN IN PANEL SCHEDULE.
- 2 SUPPLY AND INSTALL NEW 400A 120/240V, NEMA 3R, 3 POLE FUSED DISCONNECT (SCHNEIDER ELECTRIC OR EQUAL).
- 3 SUPPLY AND INSTALL NEW 200A 120/240V, NEMA 3R, 3 POLE FUSED DISCONNECT (SCHNEIDER ELECTRIC OR EQUAL).
- 4 SUPPLY AND INSTALL NEW SERVICE RATED, 400A, 3 POLE AUTOMATIC TRANSFER SWITCH.
- 5 SUPPLY AND INSTALL NEW SERVICE RATED, 200A, 3 POLE AUTOMATIC TRANSFER SWITCH.
- 6 SUPPLY AND INSTALL NEW 600A, 120/240V NEMA 3R DOCKING STATION (TRYSTAR OR EQUAL).
- 7 (3) 3/0 CU THWN AND (1) #4 CU GRND IN (1) 2" CONDUIT.
- 8 (3) 600 MCM CU THWN AND (1) #2/0 CU GRND IN (1) 3 1/2" CONDUIT.
- 9 150KW GENERATOR. BOND THE GROUND AND NEUTRAL TOGETHER AT THE GENERATOR.
- 10 RUN 1" PVC CONDUIT FROM NEW PANEL "LA" TO GENERATOR. PROVIDE (1) 120V 20A CIRCUIT FOR BATTERY CHARGER AND (1) 240V 20A CIRCUIT FOR BLOCK HEATER. INSTALL 2-#8 THWN, AND 1 #10 GRND WIRE FOR BATTERY CHARGER AND (1) SET OF 2-#10 THWN AND 1-#10 GRND WIRE FOR BLOCK HEATER.
- 11 RUN 1" PVC FROM REMOTE ANNUNCIATOR IN ADMINISTRATOR'S OFFICE TO GENERATOR. INSTALL (1) BELDEN 9841 SHIELDED TWISTED PAIR, 2-#14 AWG CONDUCTOR FOR GENERATOR.
- 12 INSTALL GENERATOR REMOTE EMERGENCY STOP ON EXTERIOR OF BUILDING WITHIN SIGHT OF THE GENERATOR. INSTALL (1) SET OF 2-#14 WIRE BACK TO GENERATOR CONTROL PANEL. UTILIZE 1" PVC CONDUIT RUN FOR REMOTE ANNUNCIATOR.



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Missouri State Certificate of Authority #201002467

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri



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Design By: MDS

Drawn By: MDS

Checked By: JLD

Revision	Date	No.
OWNER COMMENTS	06-19-2021	1

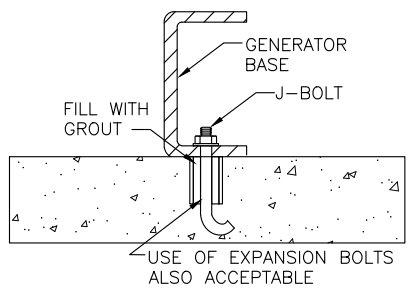
Scale: NONE

ELECTRICAL
RISER
DETAILS

Date: 20210601

E501

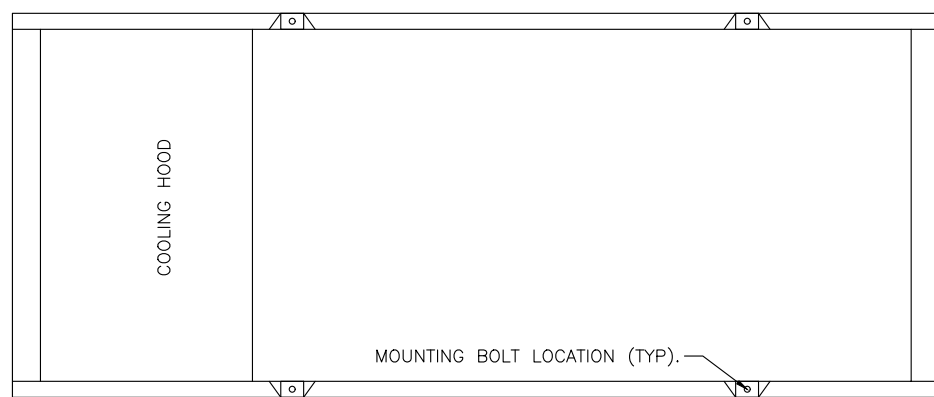
ELECTRICAL DEVICE SCHEDULE				
TAG	MEG	DESCRIPTION	MODEL NUMBER	REMARK
2	GS 1	KOHLER GENERATOR SET	150REOZJF 4T13X ALTERNATOR	150KW, 120/240V, 60 HZ, 1 PHASE, 3 WIRE DIESEL FUEL
3	ATS 1	KOHLER AUTO TRANSFER SWITCH	KSS-400 STANDARD RATED 3 POLE	WITH STEEL WEATHER/SOUND ENCLOSURE SERIES KSS AUTO TRANSFER SWITCH, NEMA 3R, W/ PROGRAMMABLE ENGINE EXERCISER.
3	ATS 2	KOHLER AUTO TRANSFER SWITCH	KSS-200 STANDARD RATED 3 POLE	SERIES KSS AUTO TRANSFER SWITCH, NEMA 3R, W/ PROGRAMMABLE ENGINE EXERCISER.



THE SIZE OF THE BOLTS HOLDING THE SUB-BASE TO THE FOUNDATION SHOULD BE SIZED TO FIT THE MOUNTING HOLES SHOWN ON THE INSTALLATION DIAGRAM.

THREE-INCH IRON PIPE SLEEVES SHOULD BE PLACED AROUND THE BOLTS IN THE FOUNDATION TO ALLOW FOR ANY MIS-LOCATION OF THE BOLTS AFTER THE FOUNDATION HARDENS. "F" OR "C" TYPE BOLTS ARE RECOMMENDED FOR THE FOUNDATION BOLTS. AFTER THE FOUNDATION IS CURED AND THE GENERATOR IS LOCATED, THE SLEEVES ARE FILLED WITH GROUT.

COORDINATE WITH INSTALLATION MANUAL ON MOUNTING BOLT LOCATIONS.



1 GENERATOR ANCHORING DETAIL

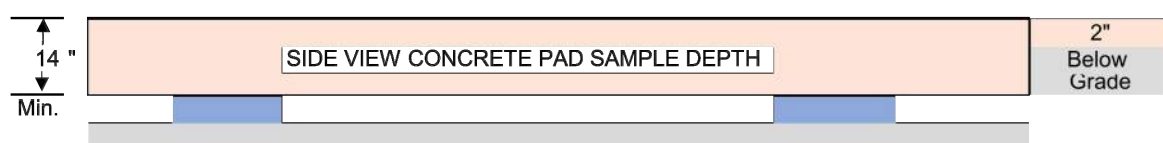
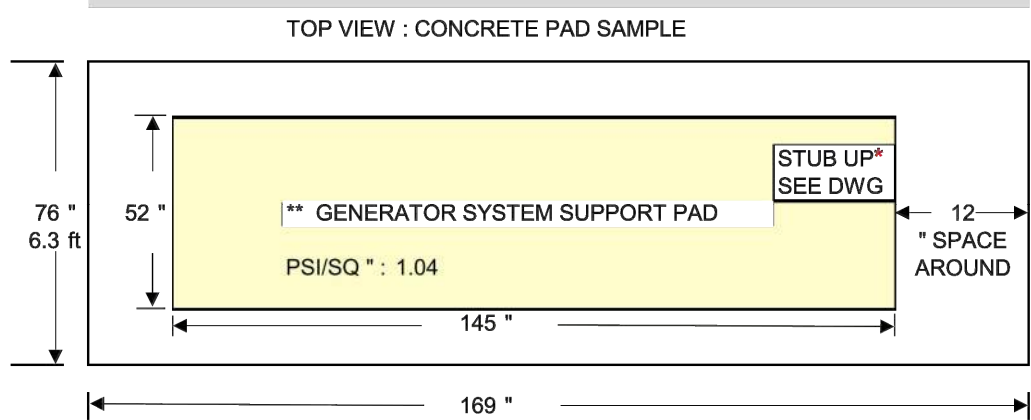
BID ALTERNATE NO. 2

NONE

CK//IPOWER[®] REV 0 5/28/2021 ASHLAND CITY HALL ASHLAND, MO

Kohler Generator Set : SAMPLE NON/SEISMIC CONCRETE PAD
Model 150REOZJF 150 kw Diesel Enclosure and 24 Hour SubbaseTank

Generator Set	-	WEIGHT #s
Sound Enclosure	-	
Subbase Tank	-	
Complete Package	"OR"	5,752
Fuel Capacity Useable Gallons :	290	2,059
Total Wet Weight		7,811



Suggested concrete mixture by volume is 1:2:3 of cement, sand, aggregate, with maximum 100 mm (4 in.) slump and 28-day compressive strength of 20 MPa (3000 psi).

Reinforce with No. 8 gauge steel wire mesh or equivalent, horizontally placed on 150 mm(6 in.) centers. An alternative method places No. 6 reinforcing bars on 300 mm (12 in.) centers horizontally. Bars should clear foundation surfaces 75 mm (3 in.) minimum.

Provide footings as required by site conditions.

* Install electrical conduits prior to pouring the pad.
Review unit installation drawing for stub up location.

** Allow for Additional Length for Intake/Discharge Hoods

Note: This is for estimating and not an Engineered Design.

PREPARED BY: FRANK KURZ
SR POWER SYSTEMS ENGINEER
Mobil - 314-873-4099

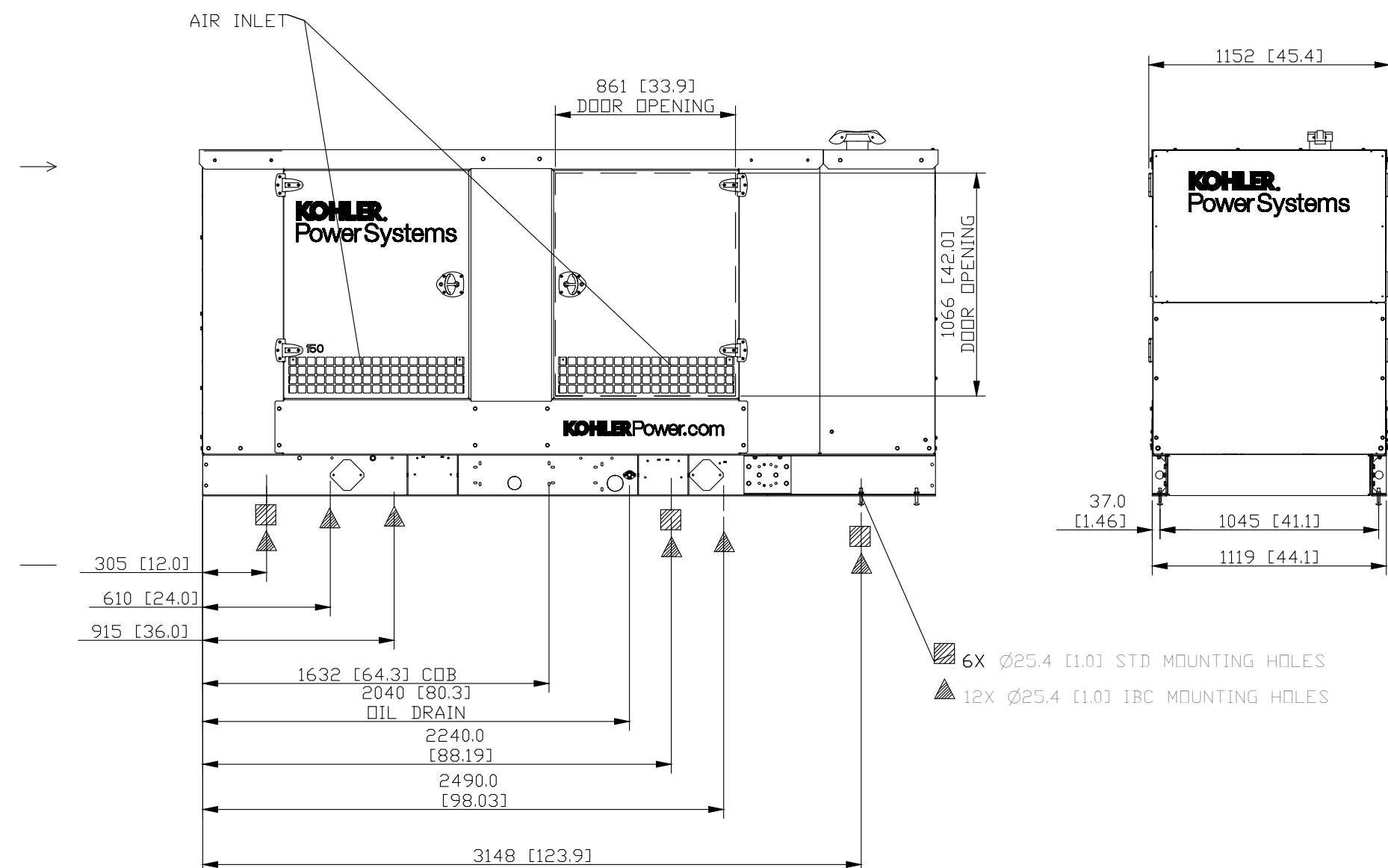
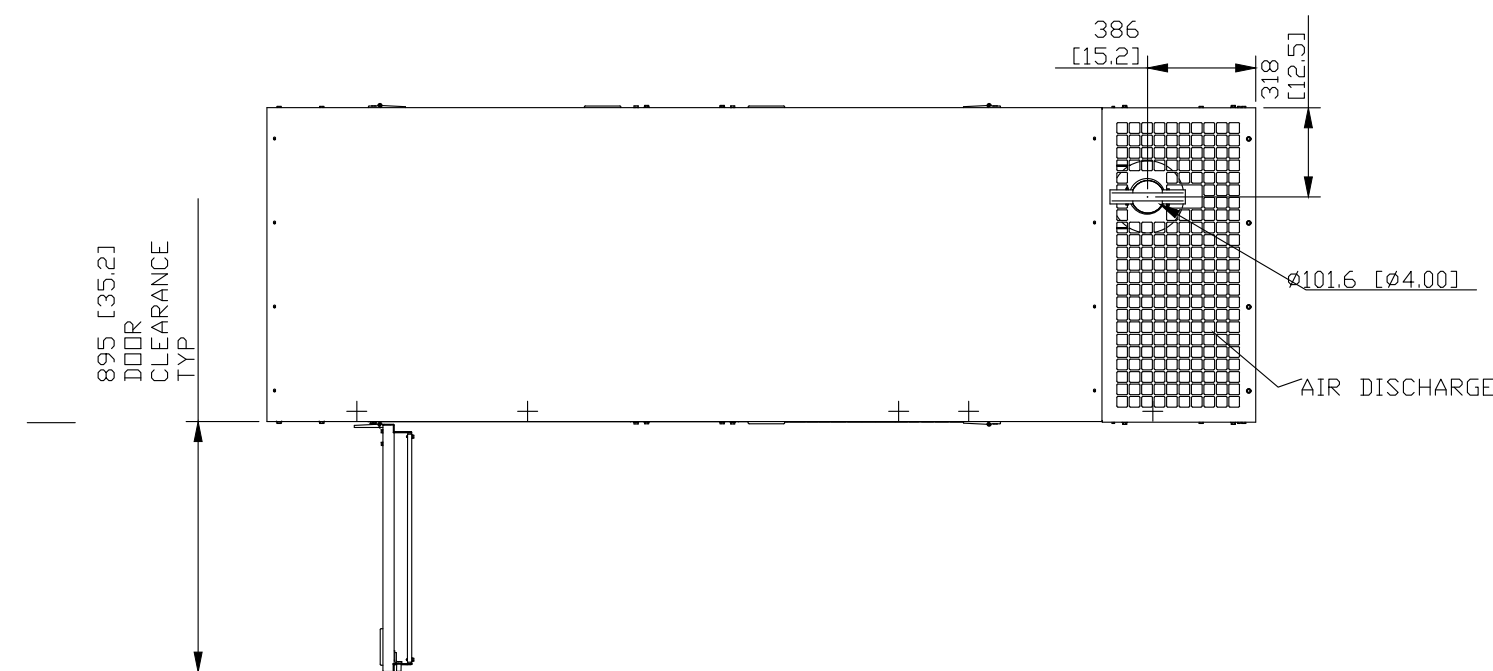
2 CONCRETE PAD FOR GENERATOR

BID ALTERNATE NO. 2

NONE

MODEL	ENCLOSURE WEIGHT KG (LBS)
STEEL WEATHER	340 (750)
STEEL SOUND	363 (800)
ALUMINUM SOUND	227 (500)

NOTE:
1. TANK (IF ORDERED) MOUNTS BELOW SKID
2. TANK MAY EXTEND BEYOND ENCLOSURE (DISCHARGE END ONLY)



3 GENERATOR ENCLOSURE DETAILS

BID ALTERNATE NO. 2

NONE

NOTES

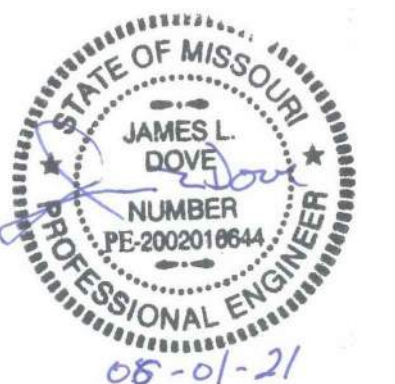
N INDICATES KEYED NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING GENERATOR AND ASSOCIATED EQUIPMENT OR AN EQUIVALENT PRODUCT TO THE GENERATOR AND TRANSFER SWITCHES SPECIFIED BELOW. THE DIMENSIONS SHOWN ARE FOR THE SPECIFIED GENERATOR AND/OR TRANSFER SWITCHES. SUBSTITUTING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIMENSIONAL CHANGES/COSTS DUE TO SUBSTITUTIONS.
- THE 150KW GENERATOR SHALL BE CONFIGURED AS A SEPARATELY DERIVED SYSTEM - SEE SPECIFICATIONS. THIS IS BID ALTERNATE NO. 2
- THE AUTO TRANSFER SWITCHES FOR THE GENERATOR ARE DESIGNED AROUND KOHLER KSS SERIES STANDARD ATS 400 AMP AND 200A, 3 POLE, NEMA 3R. SEE SPECIFICATIONS. THESE ARE TO BE BASE BID.
- PROVIDE A CONCRETE GENERATOR PAD AS SHOWN WITH 12" OF CLEARANCE ALL AROUND. COORDINATE CONDUIT STUB UP LOCATIONS WITH MANUFACTURERS LAYOUT. BID ALTERNATE NO. 2
- ALL ELECTRICAL BOXES ON FIRE RATED WALLS TO RECEIVE 3M FIRE PUTTY. COORDINATE WITH ARCHITECTURAL FIRE PENETRATION DETAILS.
- PROVIDE (4) CONCRETE PIPE BOLLARDS AROUND THE PAD TO PREVENT VEHICLE TRAFFIC FROM REACH THE GENERATORS. SEE SITE PLAN E100. BID ALTERNATE NO. 2
- NOTE REMOVED.

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& Design

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Design By: MDS

Drawn By: MDS

Checked By: JLD

Revision	Date	No.
OWNER COMMENTS	06-19-2021	1

Scale: VARIES

EMERGENCY
GENERATOR
DETAILS

Date: 202106.01

E502

NEW PANEL WITH NEW/EXISTING CIRCUITING

CIRCUIT DESIGNATION		CONNECTED LOAD				CONNECTED LOAD				CIRCUIT DESIGNATION	
	WIRE	TRIP	A	B	CKT. NO.	A	B	TRIP	WIRE		
PANEL LOCATION: WORKOUT ROOM NORTH WALL						TOTAL VOLTAGMS THIS PANEL				90522	
MOUNTING: RECESSED PANEL SPACES: 42						TOTAL CONNECTED LOAD (AMPS)				377	
PANEL DESIGNATION: "LA"											
VOLTAGE: 240 1 PHASE 3 WIRE											
MAINS: 400 A MAIN BREAKER											
F-1 (STORAGE 134)	#12	20A/1P	1296		1	2	18250		150A/2P	PANEL "LA-1"	
CU-1 (OUTSIDE NORTH)	#10	45A/2P		2664	3	4		17430			
	#10		2664		5	6			150A/2P		
F-2 (STORAGE ROOM)	#12	15A/1P		948	7	8					
CU-2 (OUTSIDE NORTH)	#10	35A/2P	2129		9	10	948		20A/1P	F-3 (STORAGE ROOM)	
	#10			2129	11	12		1200	20A/1P	HA/C-4	
H+A-C-5		20A/1P	1200		13	14	2500		60A/2P	CONDENSER 4 (5 TON)	
CONDENSER 5 (5 TON)		60A/2P		2500	15	16		2500			
			2500		17	18	2129		35A/2P	#10	
BREAK RM DED. OUTLET	#10	20A/1P		1200	19	20		2129		#10	
BREAK RM DED. OUTLET	#10	20A/1P	1200		21	22	2664		45A/2P	#10	
BREAK RM DED. OUTLET	#10	20A/1P		1200	23	24		2664		#10	
RECEPT. SERVER SOUTH		20A/1P	400		25	26	300		30A/1P	TWISTLOK-SERVER SOUTH	
RECEPT. SERVER WEST		20A/1P		400	27	28		800	30A/1P	TWISTLOK-SERVER WEST	
RECEPT. SERVER NORTH		20A/1P	400		29	30	300		30A/1P	TWISTLOK-SERVER NORTH	
EV STORAGE RECEPTACLE	#12	20A/1P		1260	31	32		1296	20A/1P	F-4 (JANITOR 122)	
UNKNOWN BREAKER IS ON		20A/1P	500		33	34	941		25A/2P	#12	
UNKNOWN BREAKER IS ON		20A/1P		1200	35	36		941		#12	
SPARE (BREAKER IS ON)?		20A/1P	850		37	38	250		15A/2P	#12	
SPARE (BREAKER IS ON)?		20A/1P		800	39	40		250		#12	
SPARE (BREAKER IS ON)?		20A/20A	1000		41	42	864		20A/1P	#12	
SPARE		20A/1P			43	44	1500		20A/1P	#12	
SPARE		20A/1P			45	46		1000	20A/2P	#10	
SPARE		20A/1P			47	48	1000			#30	
SPARE		20A/1P			49	50	226		20A/1P	#10	
SPARE		20A/1P			51	52			20A/1P	SPARE	
SPARE		20A/1P			53	54			20A/1P	SPACE	
			14139				31872			PHASE A 46011	
				14301				30210		PHASE B 44511	

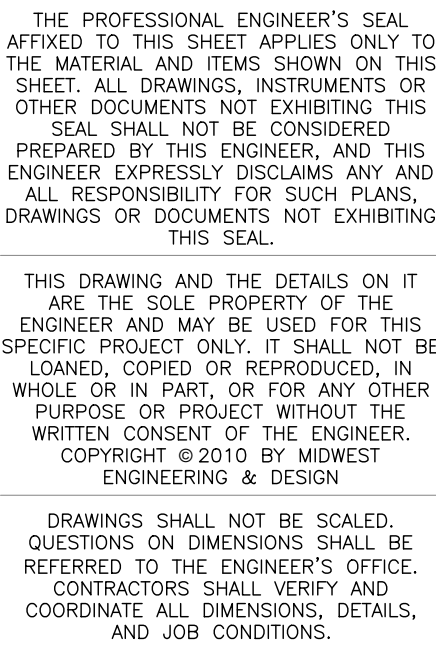
EXISTING PANELS WITH NEW CIRCUITING												
PANEL DESIGNATION: "LB"		PANEL LOCATION: WORKOUT ROOM NORTH WALL				TOTAL VOLTAGES THIS PANEL					47268	
VOLTAGE 240 1PHASE 3WIRE		MOUNTING: RECESSED		PANEL SPACES: 40		TOTAL CONNECTED LOAD (AMPS)					197	
MAINS: 200 A MAIN BREAKER		CONNECTED LOAD				CONNECTED LOAD						
CIRCUIT DESIGNATION		WIRE	TRIP	A	B	NO.	A	B	TRIP	WIRE	CIRCUIT DESIGNATION	
EMERGENCY LIGHTS		20A/1P		500		1 2	1800		20A/1P	#12	RECEPTACLES RM 119, 125	
EAST HALF LIGHTS		#12	20A/1P		1740	3 4		500	20A/1P		LIGHTS	
WEST HALF LIGHTS		#10	20A/1P	1790		5 6	500		20A/1P		LIGHTS	
SQUAD ROOM RECEPTACLES		#12	20A/1P		1080	7 8		1260	20A/1P		RECEPT. 01.02.01.022.024	
RECEPTACLES			20A/1P	850		9 10	1000		20A/1P		RESTROOM RECEPTACLE	
RECEPTACLES RM 117, 120		#12	20A/1P		1440	11 12		1200	20A/1P		RECEPTACLES	
RECEPTACLES RM 125		#12	20A/1P	1620		13 14	1260		20A/1P	#12	RECEPTACLES RM 141, 142, 125	
RECEPTACLES 018.019			20A/1P		1260	15 16		540	20A/1P	#10	RECEPTACLES CHIEF 133	
RECEPTACLES RM 132			20A/1P	900		17 18	1200		20A/1P		RECEPTACLES	
RECEPTACLES			20A/1P		900	19 20		850	20A/1P		RECEPTACLES	
RECEPTACLES 014			20A/1P	900		21 22	850		20A/1P		RECEPTACLES 014	
BREAK ROOM 126 RECEPTACLE		#12	20A/1P		1000	23 24		1200	20A/1P		RECEPTACLES	
BREAK ROOM 126 RECEPTACLE		#12	20A/1P	1000		25 26	1200		20A/1P		RECEPTACLES	
HP-1 (OUTSIDE ROOF)		#12	30A/2P		1842	27 28		1000	20A/1P	#12	DEDICATED RECEPTACLE	
		#12		1842		29 30	1000		20A/1P	#12	DEDICATED RECEPTACLE	
HP-2 (OUTSIDE NORTH)		#10	45A/2P		2422	31 32		1000	20A/1P	#10	COPY MACHINE RECEPTACLE	
		#10		2422		33 34	1000		20A/1P	#10	BREAK RM REFR. RECEPTACLE	
SOFTNER			20A/2P		1000	35 36		850	20A/1P		RECEPTACLES 019	
				1000		37 38	850		20A/1P		RECEPTACLES	
RECEPTION 129 RECEPTACLES		#10	20A/1P		1440	39 40		1260	20A/1P	#12	RECEPTACLES RM 138, 140	
				12624			10660				PHASE A 23484	
				14124				9660			PHASE B 23784	

NO NEW PANEL "LA1" UPDATES.

[illegible]

 INDICATES KEYED NOTES

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- The image displays four architectural elevations of a building facade, showing the placement of various signs. The building is a two-story structure with a mix of brick and wood siding. The signs are as follows:
- South Elevation:** Features a large "CITY HALL" sign above the entrance, a "K-50" sign above the entrance, and a "K-50" sign above the entrance.
 - East Elevation:** Features a "CITY HALL" sign above the entrance, a "K-50" sign above the entrance, and a "POLICE DEPARTMENT" sign above the entrance.
 - North Elevation:** Features a "K-50" sign above the entrance, a "K-50" sign above the entrance, and a "K-50" sign above the entrance.
 - West Elevation:** Features a "K-50" sign above the entrance, a "K-50" sign above the entrance, and a "POLICE DEPARTMENT" sign above the entrance.
- 1 **BUILDING SIGN LIGHT DETAILS**
SCALE: 1"=20'



OWNER COMMENTS	05-19-2021	

ELECTRICAL

5004

E601

PLAN HOLDERS LIST – 6-18-2021

PROJECT: Proposed Remodeling for: City Hall – City of Ashland

Bids Due: **Tuesday, June 22nd, 2021 - 3:00 pm, DST**

Bids will be received at the CURRENT City Hall, 109 East Broadway, Ashland, MO 65010.

Bids will be opened and read aloud at that time.

GENERAL CONTRACTORS

Arete Contracting
John Melton
bids@aretecontracting.com

220 East Dunklin Street
Jefferson City, MO 65101
Phone 573.694.0748

Five Oaks Associates, LLC
Gary Dorr
admin@5oaksassociates.com

709 North Allen Street
Centralia, MO 65240
Phone 573.682.1314

GBH Builders
Jake Hunget
estimating@gbhbuilders.com

P.O. Box 945, 3441 N. Ten Mile Drive
Jefferson City, MO 65109
Phone 573.893.3633

ARCHITECT: Porter, Berendzen & Associates, P.C.
573-657-2022 / jay@pba-architecture.com

200 South Henry Clay Blvd. - P.O. Box 446
Ashland, MO 65010

For informational purposes only. This list is subject to change. Additional Contractors / Sub-Contractors / Suppliers not included on this list may Bid the Project. Contractors / Sub-Contractors / Suppliers included here may elect not to Bid the Project.