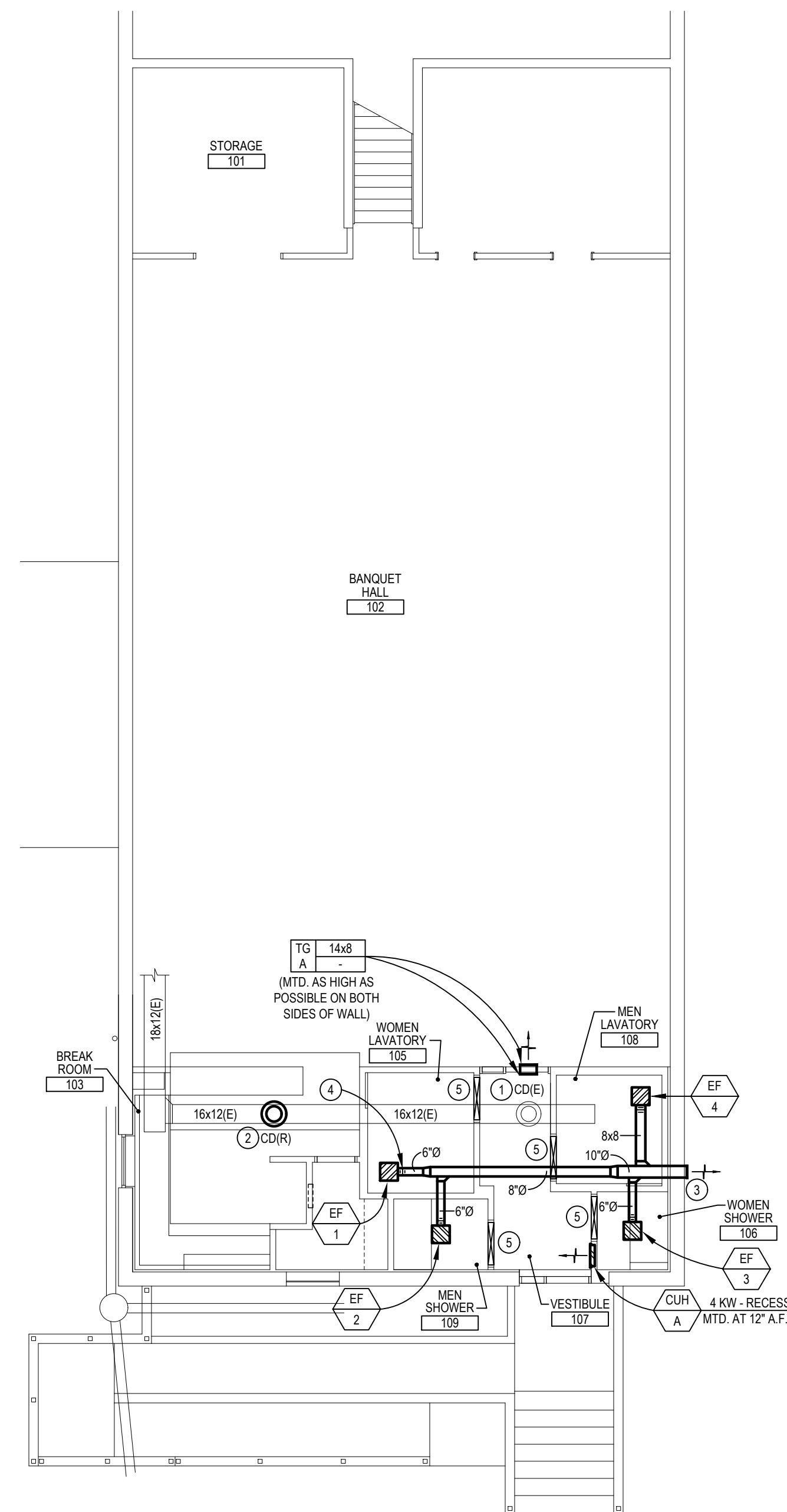




GRILLE, REGISTER AND DIFFUSER SCHEDULE												
TAG	MANUFACTURER & MODEL NUMBER	CFM	AIR PATTERN	NECK SIZE	DAMPER	FRAME STYLE	PANEL SIZE	MAXIMUM NC LEVEL	FINISH	MATERIAL	NOTES	REMARKS
TG A	PRICE 530	AS NOTED	TRANSFER	AS NOTED		SURFACE MOUNTED	NECK SIZE +1-3/4"	30	WHITE POWDER COAT	STEEL		TAG
SIMILAR MANUFACTURERS: KRUEGER, METALAIR, TITUS												

ELECTRIC UNIT HEATER SCHEDULE						
TAG	MANUFACTURER & MODEL NUMBER	HEATING CAPACITY		VOLTAGE	AMPS	REMARKS
		KW	BTU/HR			
CUH A	MARKEL F3326TD-RP	4.0	13800	208V 1PH	19.2	SEE NOTES BELOW
NOTES: PROVIDE WITH THE FOLLOWING ITEMS: 1. FACTORY INSTALLED DISCONNECT SWITCH 2. AUTOMATIC RESET THERMAL CUTOUT 3. RECESSED WALL MOUNTING BOX 4. INTEGRAL THERMOSTAT						

FAN SCHEDULE											
PLAN TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	SERVICE	CFM	ESP	WATTS & VOLTAGE	FAN RPM	FAN TYPE	MAX. SOUND LEVEL	WEIGHT (LBS)	REMARKS
EF 1	GREENHECK SP-B110	MENS LAVATORY	EXHAUST	75	.5"	80 WATTS 120V/10	807	CEILING MTD.	2.0 SONES	10	SEE NOTES BELOW
EF 2	GREENHECK SP-B110	MENS SHOWER	EXHAUST	75	.5"	80 WATTS 120V/10	807	CEILING MTD.	2.0 SONES	10	SEE NOTES BELOW
EF 2	GREENHECK SP-B110	WOMENS SHOWER	EXHAUST	75	.5"	80 WATTS 120V/10	769	CEILING MTD.	2.0 SONES	10	SEE NOTES BELOW
EF 2	GREENHECK SP-A200	MENS LAVATORY	EXHAUST	150	.5"	48 WATTS 120V/10	769	CEILING MTD.	1.0 SONES	10	SEE NOTES BELOW
NOTES: PROVIDE WITH THE FOLLOWING ITEMS: 1. DISCONNECT SWITCH 2. GRAVITY BACKDRAFT DAMPER 3. INTEGRAL SPEED CONTROL SWITCH FOR BALANCING 4. CONTROLLED BY LIGHT SWITCH BY EC (WHEN LIGHT SWITCH IS ACTIVATED THE FAN WILL ENGAGE) 5. LIGHTED CEILING GRILLE WITH 10W LED LIGHT WITH PRISMATIC LENS 6. HANGING KIT WITH NEOPRENE VIBRATION ISOLATORS											



MECHANICAL PLAN TAG NOTES:

- EXISTING CEILING DIFFUSER TO REMAIN AND BE REUSED.
- EXISTING CEILING DIFFUSER TO BE REUSED. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR NEW CEILINGS IN THIS AREA AND REMOVE AND REPLACE DIFFUSER AS NECESSARY FOR NEW CEILING TYPE.
- MECHANICAL CONTRACTOR SHALL EXTEND 10" EXHAUST AIR DUCT THRU SIDEWALL AND PROVIDE WALL STYLE VENT CAP COMPLETE WITH BACKDRAFT DAMPER & BIRD SCREEN.
- FLEX CONNECTION AT UNIT. (TYPICAL)
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR 1" UNDERCUT DOOR.

MECHANICAL GENERAL NOTES:

- THE MECHANICAL CONTRACTORS SHALL BE HELD TO HAVE REVIEWED ALL SHEETS OF THESE CONTRACT DOCUMENTS AND WILL BE RESPONSIBLE FOR PERFORMING ALL WORK INDICATED ON ANY SHEET. THE MECHANICAL CONTRACTORS WILL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF DIFFUSERS IN THE REFLECTED CEILING PLAN.
- THE DUCTWORK SHALL BE SUPPORTED BY STRAP HANGERS AROUND DUCTWORK. DO NOT SUPPORT DUCTWORK FROM DECK.
- THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK AND ADJUST DUCTWORK, EQUIPMENT LOCATIONS, ETC... TO CORRESPOND TO THE EXISTING CONDITION REQUIREMENTS.
- PROVIDE ALL REQUIRED OFFSETS FOR DUCTWORK.
- EQUIPMENT SHALL BE INSTALLED PER THE OHIO BUILDING CODE AND THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MORE STRICT REQUIREMENT SHALL APPLY.
- FLEXIBLE AIR DUCT SHALL BE TESTED IN ACCORDANCE WITH UL 181. FLEXIBLE DUCT SHALL NOT EXCEED 4 FEET IN LENGTH.
- ALL DUCTWORK JOINTS SHALL BE SECURELY FASTENED AND SEALED WITH MASTICS.
- ALL DUCTWORK DIMENSIONS NOTED ON PLAN REFERS TO THE CLEAR INSIDE OPENING REQUIRED.
- DUCTWORK SHALL BE SUPPORTED AT MAXIMUM 8 FEET ON CENTERS. FLEXIBLE DUCTS SHALL BE SUPPORTED PER MANUFACTURER'S INSTALLATION MANUAL.
- DUCT INSULATION SHALL HAVE FLAME INDEX OF 25 OR LESS AND SMOKE INDEX OF 50 OR LESS. EXTERNAL DUCT INSULATION FACTORY INSULATED FLEXIBLE DUCT SHALL HAVE IDENTIFIED THE MANUFACTURER, R-VALUE, FLAME AND SMOKE INDEX.
- MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER AND VOLTAGE REQUIREMENTS.
- ALL WALL CUTTING, PATCHING, AND FLASHING REQUIRED TO INSTALL THE MECHANICAL SYSTEMS SHALL BE MADE BY THE GENERAL CONTRACTOR.
- EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC... SHOWN ON THE DRAWINGS WERE DERIVED FROM LIMITED FIELD OBSERVATIONS, THE MECHANICAL CONTRACTOR IS STILL RESPONSIBLE TO FIELD VISIT SITE TO DETERMINE EXISTING CONDITIONS.

MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL WALLS, DOORS, ETC... (MAY DIFFER FROM WHAT IS SHOWN HERE)

MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

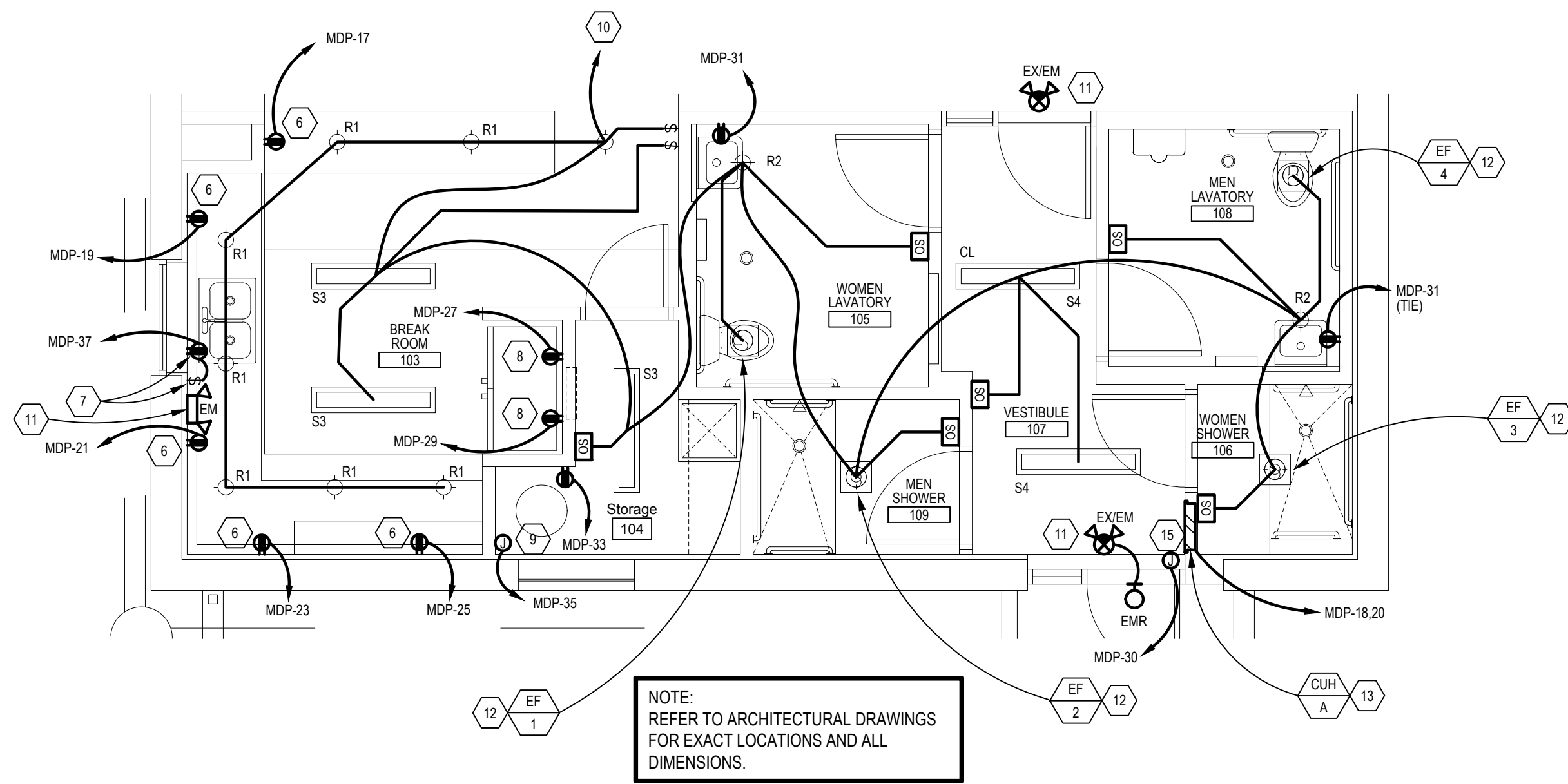
Basement - Kiwanis Lodge
27285 Highland Road
Richmond Heights, OH 44143

ISSUE	DATE
Bld & Permit	10-16-2018

PROJECT NUMBER	N18505
DRAWN BY	JND
CHECKED BY	KKH

Mechanical Plan

M-1



NEW WORK ELECTRICAL PLAN 'A'

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



NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ALL DIMENSIONS.

CODED NOTES

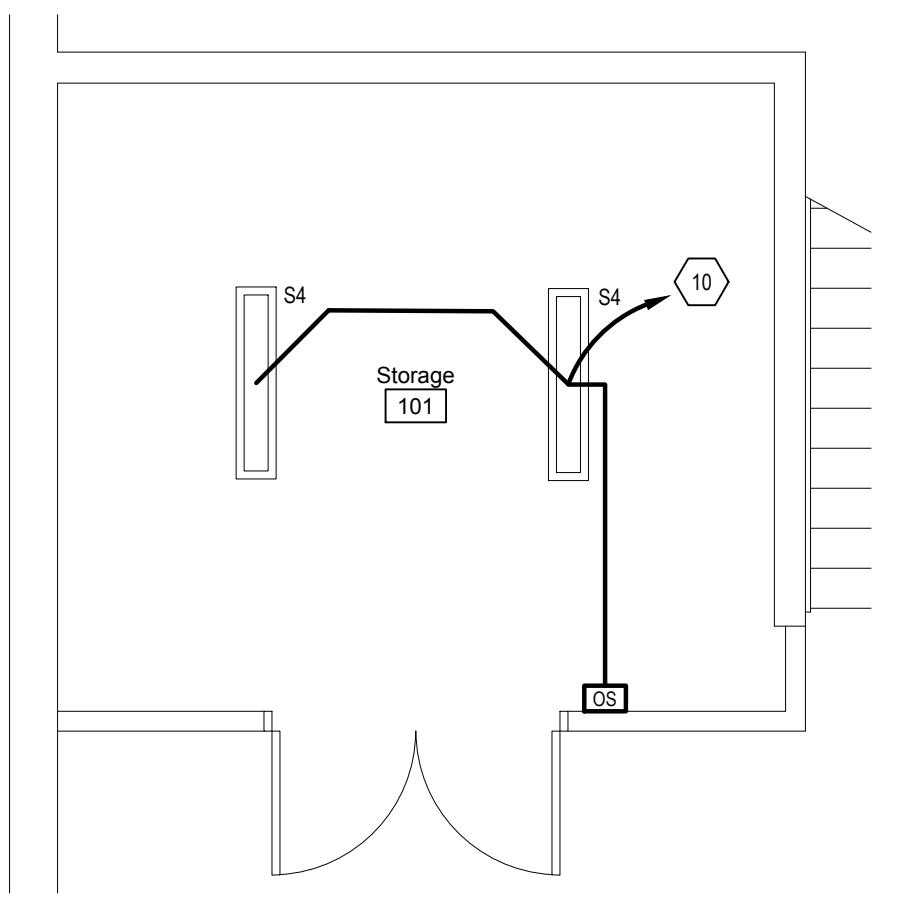
- NO WORK IN THIS AREA.
- EXISTING RECEPTACLE TO REMAIN. MAINTAIN EXISTING CIRCUIT.
- EXISTING RECEPTACLE TO REMAIN. MAINTAIN EXISTING CIRCUIT. DEMO EXISTING RECEPTACLE. REMOVE ASSOCIATED J-BOX, CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN POWER TO EXISTING RECEPTACLES THAT ARE ON THE SAME CIRCUIT THAT ARE TO REMAIN.
- EXISTING LIGHT FIXTURES IN THIS ROOM. REMOVE ASSOCIATED J-BOXES, CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN POWER AND CONTROLS TO EXISTING LIGHT FIXTURES ON THE SAME CIRCUIT THAT ARE TO REMAIN.
- EXISTING LIGHT FIXTURES IN THIS AREA. REMOVE ASSOCIATED J-BOXES, CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN POWER AND CONTROLS TO EXISTING LIGHT FIXTURES ON THE SAME CIRCUIT THAT ARE TO REMAIN. DEMO LIGHT FIXTURES ARE TO BE REUSED IN THIS SAME AREA.
- MOUNT RECEPTACLE HORIZONTALLY IN BACK SPLASH AT 3'-4" AFF TO CENTERLINE OF RECEPTACLE.
- PROVIDE SWITCH MOUNTED HORIZONTALLY IN BACK SPLASH AT 3'-4" AFF TO CENTERLINE OF SWITCH AND RECEPTACLE AT 24" AFF IN CABINET UNDER SINK FOR GARBAGE DISPOSAL.
- PROVIDE RECEPTACLE AT 36" AFF. CONNECT TO 20A-1P GFCI CIRCUIT BREAKER. PROVIDE JUNCTION BOX WITH 120V CIRCUIT FOR GAS WATER HEATER. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- CONNECT TO EXISTING LIGHTING CIRCUIT IN THIS AREA.
- CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHES OR CONTROLS.
- CONNECT FANLIGHT COMBO TO LIGHTING CIRCUIT AND OCCUPANCY SENSOR.
- CABINET UNIT HEATER, CUH-A (24V, 10, 19.2A) WITH INTEGRAL DISCONNECT AND THERMOSTAT. RUN (2) #10 AND #10 GROUND IN 1/2" CONDUIT TO A 30A-2P CIRCUIT BREAKER.
- DUPLEX GRINDER PACKAGE (TWO 2 HP PUMPS. EACH PUMP IS 240V, 10, 13.7A) WITH ALTERNATING PANEL AND DUPLEX JUNCTION BOX. RUN TWO SETS OF (2) #10 & #10 GROUND IN 1" CONDUIT TO 20A-2P CIRCUIT BREAKERS. MAKE ALL FINAL ELECTRICAL CONNECTIONS.
- PROVIDE J-BOX WITH 120V CIRCUIT DOOR MOTOR OPERATOR. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS. PROVIDE J-BOXES AND CONDUIT AS REQUIRED FOR DOOR OPERATOR BUTTONS. MAKE ALL FINAL ELECTRICAL POWER CONNECTIONS.

ELECTRICAL LEGEND

ELECTRICAL LEGEND NOTES:

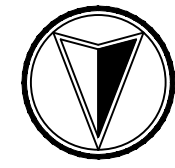
- MOUNTING HEIGHTS INDICATED ARE TO THE TOP OF THE DEVICE OR FIXTURE.
- MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION ON EXACT DEVICE AND FIXTURE LOCATIONS, MOUNTING HEIGHTS AND COORDINATION WITH ARCHITECTURAL HARDWARE AND FIXTURES.
- NOT ALL SYMBOLS APPLY.

LIGHTING		POWER	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SW	WALL SWITCH @48" A.F.F. 20A, 120V	DR	DUPLEX RECEPTACLE 20A, 120V
3SW	THREE-WAY SWITCH @48" A.F.F. 20A, 120V	C	C = CEILING MTD SW = SHOW WINDOW
OS	OCCUPANCY SENSOR DIMMER WALL MOUNTED @48" A.F.F. LUTRON # MCL-OP15M	DRIF	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER @20" A.F.F. (U.N.O.); 20A, 120V
VS	VACANCY SENSOR DIMMER @48" A.F.F. 20A, 120V LUTRON # MCL-VP15M	WP	DUPLEX RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER @18" A.F.F. OR A.F.F. (U.N.O.); 20A, 120V
FL	FLUORESCENT LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE.	WP	SPECIAL RECEPTACLE AMPERAGE, @20" A.F.F. COORDINATE NEMA CONFIG. WITH EQUIPMENT FED.
CL	CEILING LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE.	J	JUNCTION BOX MOUNTED AS NOTED.
WL	WALL LIGHTING OUTLET @ HEIGHT PER FIXTURE SCHEDULE OF ARCHITECTURAL ELEVATIONS.	SD	SAFETY DISCONNECT SWITCH @60" A.F.F. TO TOP
EM	COMBINATION EMERGENCY EGRESS LIGHT, SINGLE FACE, CEILING MOUNTED	PL	PANELBOARD, FLUSH MOUNTED @6" A.F.F. TO TOP
EMR	EMERGENCY EGRESS LIGHT @90" A.F.F. WALL MOUNTED	DRD	DOUBLE DUPLEX RECEPTACLE @20" AFF, 20A, 120V
EMR	EMERGENCY REMOTE HEAD FOR EXIT	TE	TELEDATA OUTLET MTD AT 18" AFF UNLESS OTHERWISE NOTED. PROVIDE 3/4" C. AND/OR PULLSTRING TO ACCESSIBLE C.G. OR AREA AS REQ.
EMR	FLUSH DUPLEX RECEPTACLE, 20A, 120V	Q	WIREDMOLD FLOORBOX SERIES RFB WITH QUADRAPLEX ELECTRICAL OUTLET RATED AT 20 AMPS AND MULTIPLE TELEPHONE/DATA RECEPTACLES. COLOR AND FINISH AS SELECTED BY ARCHITECT. RFB4, BLACK COVER PLATE
DL	DAY LIGHT CONTROL SENSOR - LUTRON # LRF2-D2RB	Q	WIREDMOLD FLOORBOX SERIES RFB WITH DUPLEX ELECTRICAL OUTLET RATED AT 20 AMPS AND MULTIPLE TELEPHONE/DATA RECEPTACLES. COLOR AND FINISH AS SELECTED BY ARCHITECT. RFB4, BLACK COVER PLATE
CC	CCTV CAMERA - CEILING MOUNTED BY OTHERS		

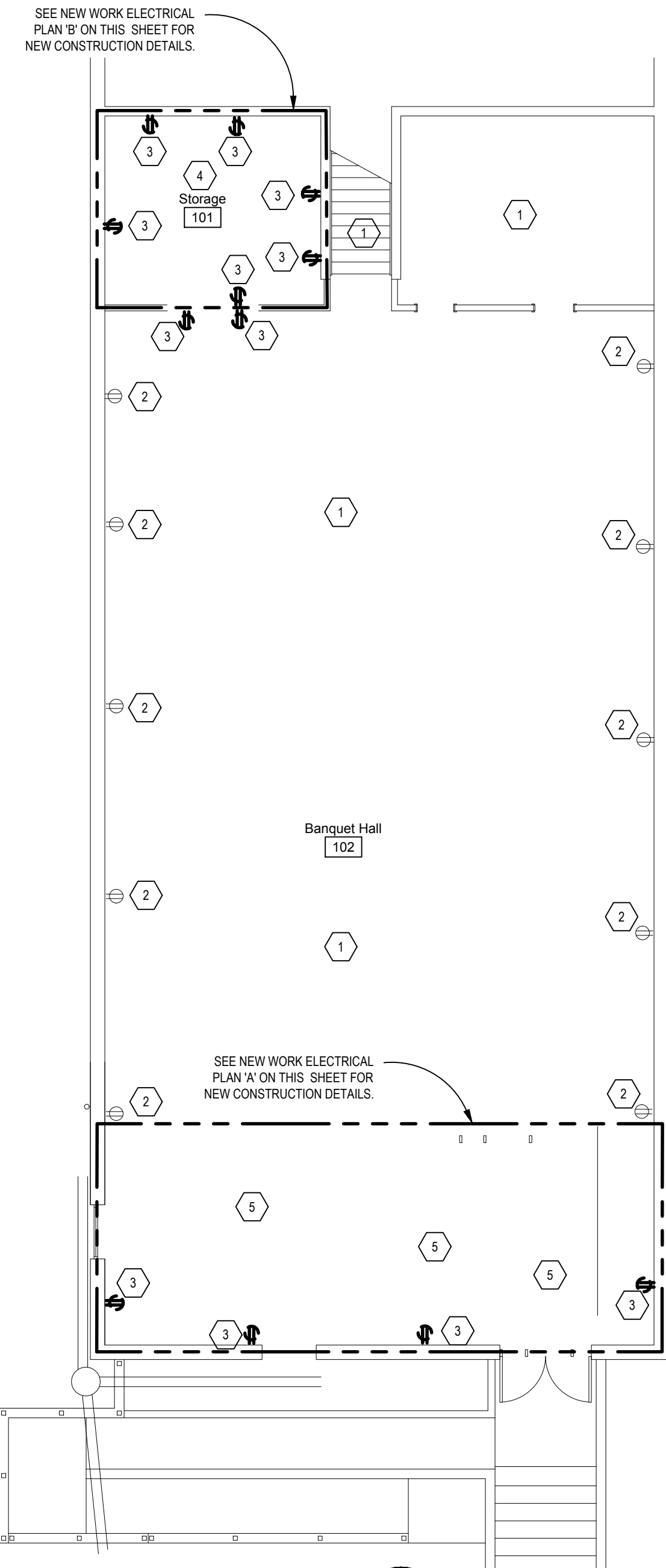


NEW WORK ELECTRICAL PLAN 'B'

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

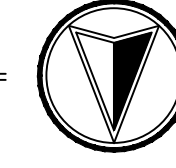


OPTION FOR FIRE SPRINKLER SYSTEM: FOR THIS OPTION PROVIDE A MONITORING SYSTEM WITH FLOW AND TAMPER SWITCHES AND ANY OTHER DEVICES AS REQUIRED BY CODE. SYSTEM TO BE SUBMITTED FOR PERMIT UNDER SEPARATE CONTRACT.



ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"



LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	VOLT	LAMP	MOUNT	MANUFACTURER
R1	4" ROUND LED RECESSED CAN	120	12 W LED	RECESSED	LITHONIA LDN4-35/10LOARLSS/120-GZ10
R2	4" ROUND LED RECESSED CAN	120	22 5W LED	RECESSED	LITHONIA LDN4-35/20LOARLSS/120-GZ10
S3	EXISTING 4" LED TO BE REUSED	120	LED 40W	SUSPENDED	EXISTING
S4	NEW 4" LED TO MATCH EXISTING	120	LED 40W	SUSPENDED	PROVIDE FIXTURE TO MATCH EXISTING 4" LED FIXTURES.
EXEM	SELF CONTAINED EMERGENCY EXIT COMBO UNIT, WHITE HOUSING	120	LED IN CAN.	UNIVERSAL	LITHONIA LHOM-S-W-RHO
EM	SELF CONTAINED EMERGENCY EGRESS LIGHT, WHITE HOUSING	120	FURN. W/UNIT	WALL OR COLUMN @ 90°	LITHONIA ELM
EMR	EXIT DISCHARGE EMERGENCY REMOTE HEAD, TWIN LAMP	6V	FURN. W/UNIT	EXT. WALL ABOVE DOOR	LITHONIA ELA-T-NX-H066

NOTES:
 1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
 2. EQUAL FIXTURES BY COOPER, HUBBELL, PHILIPS OR LSI.

ELECTRICAL SPECIFICATIONS

- THE REQUIREMENTS AS SET FORTH UNDER GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS AND GENERAL REQUIREMENTS ARE A PART OF THIS CONTRACT. BIDS SHALL BE BASED ON A COMPLETE SET OF DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH WORK PERFORMED BY OTHER TRADES.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL EXISTING ELECTRICAL LOCATIONS, CONDITIONS ETC. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE ELECTRICAL WORK. BEGINNING OF WORK INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
- FURNISH ALL LABOR, MATERIALS, TESTING, EQUIPMENT, INCIDENTALS AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND AS SUCH APPEAR ON THE UNDERWRITERS LABORATORIES LIST OF APPROVED ITEMS AND SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES, WHOEVER ARE MORE STRINGENT.
- ALL WORK IS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES. ALL ELECTRICAL EQUIPMENT & MATERIALS SHALL BE U.L. LABELED AND LISTED PER NEC 110.3(A)(1).
- SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, ASSESSMENTS AND INSPECTION CERTIFICATES THAT RELATE TO THE ELECTRICAL CONTRACT. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- THESE ELECTRICAL PLANS ARE DIAGNOSTIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD-VERIFIED AND COORDINATED WITH ARCHITECTURAL, PLUMBING, HVAC, FIRE PROTECTION, STRUCTURAL AND OTHER BUILDING DRAWINGS.
- CONDUIT SHALL BE STANDARD STEEL RIGID OR EMT (THIN WALL) ACCORDING TO LOCAL CODE REQUIREMENTS. CONDUIT SHALL BE CONCEALED IN FINISHED AREAS, EXCEPT AS OTHERWISE APPROVED BY THE ARCHITECT. THE USE OF SURFACE RACEWAY EXCEPT AS CALLED FOR ON DRAWINGS SHALL REQUIRE APPROVAL OF THE ARCHITECT. EMT CONNECTIONS SHALL BE COMPRESSION OR SET-SCREW TYPE. FLEXIBLE CONDUIT OR TYPE MC CABLE SHALL BE APPROVED FOR CONCEALED BRANCH CIRCUITING AND FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS AND VIBRATING EQUIPMENT AND WHERE SO USED TO BE GROUNDED WITH A SEPARATE FULL SIZED GREEN GROUNDING CONDUCTOR. EXPOSED FINAL TYPE MC/FLEX CONNECTIONS SHALL BE LIMITED TO 10'-0" IN LENGTH. ARRANGE CIRCUITS SO AS TO AVOID THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILING AREAS. JUNCTION BOXES LOCATED ABOVE LAY-IN CEILINGS ARE ACCEPTABLE.
- MINIMUM SIZES OF CONDUITS SHALL BE 1/2". ALL CONDUIT AND WIRING SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. ALL CORE DRILLING OR CUTTING OF FIRE-RATED FLOORS, SHAFTS AND WALLS SHALL BE FIRE-STOPPED PRIOR TO FINISH PATCHING. ALL PENETRATIONS SHALL BE FIRE SEALED TO MATCH THE FIRE RATING OF THE FLOOR, SHAFT OR WALL PENETRATED.
- WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 90 VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES. INCREASE CONDUCTOR BY ONE SIZE FOR EVERY 150' INCREMENT OF DISTANCE FROM THE PANEL BOARD FOR 120 VOLT CIRCUITS. GENERAL WIRING SHALL BE THW, THWN, THHN, OR XHHW ALUMINUM CONDUCTORS ARE NOT PERMITTED.
- FURNISH AND INSTALL A COMPLETE WIRED GROUNDING SYSTEM FOR ELECTRICAL EQUIPMENT AND CIRCUITS AS SHOWN ON THE DRAWINGS AND REQUIRED PER N.E.C. ARTICLE 250. ALL GROUNDING CONDUCTORS SHALL BE GREEN, WHERE EXPOSED IN PANEL, OUTLETS, BOXES, ETC.
- RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL 5382. WALL SWITCHES SHALL BE 20 AMP SPECIFICATION GRADE, RATED AT 120 VOLT OR 277 VOLT AS REQUIRED. ALL DEVICE COVERPLATES SHALL BE PASS AND SEYMOUR OR EQUAL.
- OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL KNOCKOUT. JUNCTION, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE. INSTALL BOXES RIGIDLY ON BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALSO PROVIDE APPROPRIATE BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF WALLS ETC. ALL OUTLET BOXES TO HAVE SUITABLE BLOCKING BEHIND THEM TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE AND PROVIDE LIGHTING, POWER AND WIRING AS REQUIRED TO FACILITATE APPLICABLE TEMPORARY NEEDS FOR ALL TRADES. HE SHALL FURNISH EXTENSION CORDS FOR HIS OWN USE. ANY TEMPORARY WIRING, FUSES, ETC., SHALL BE REMOVED UPON COMPLETION OF THE PROJECT. PROVIDE GROUND FAULT PROTECTION AS REQUIRED BY N.E.C. AND LOCAL CODES.
- ALL ELECTRIC WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO BUILDING STEEL, CONCRETE OR MASONRY, BUT NOT PIPING OR DUCTWORK. ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. CONDUITS SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHEREVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. ALL CONDUCTORS SHALL BE IN CONDUIT, DUCTS OR OTHER CODE APPROVED RACEWAYS.
- IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.
- PROVIDE O & M MANUALS & AS-BUILT DRAWINGS TO THE OWNER WITHIN 30 DAYS OF FINAL ACCEPTANCE.

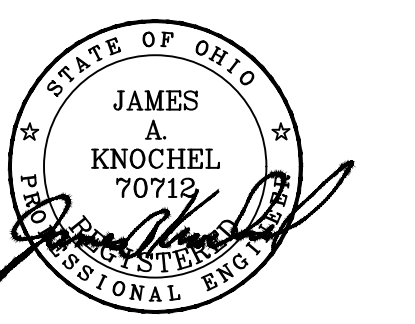
CRK NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CRK BKR SIZE	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CRK BKR SIZE	CRK OPTION	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CRK SIZE NO.
1	E	(EXISTING) AC CONDENSER	60/2	E	4.800	A	4.800	4.800	E	60/2	(EXISTING) AC CONDENSER	E	2
3	E	---	---	E	4.800	A	4.800	4.800	E	---	---	E	4
5	E	SPARE	20/1	E	0.000	B	1.200	1.200	E	20/1	(EXISTING) TRACK LIGHTS	E	6
7	E	(EXISTING) BAR COUNTER REC	20/1	E	0.720	A	1.200	1.200	E	20/1	(EXISTING) TRACK LIGHTS	E	8
9	E	(EXISTING) BAR COUNTER REC	20/1	E	0.720	A	1.200	1.200	E	20/1	(EXISTING) TRACK LIGHTS	E	10
11	E	(EXISTING) STORAGE & UC LIGH	20/1	E	1.200	B	1.500	1.500	E	20/1	(EXISTING) COFFEE MACHINE	E	12
13	E	(EXISTING) SMALL HALL CON	50/2	E	4.200	A	1.500	1.500	E	20/1	(EXISTING) COFFEE MACHINE	E	14
15	E	---	---	E	4.200	B	1.500	1.500	E	20/1	(EXISTING) COFFEE MACHINE	E	16
17	12	BASEMENT KITCHEN REC	20/1	E	0.180	A	2.000	2.000	---	30/2	CUH-A	10	18
19	12	BASEMENT KITCHEN REC	20/1	E	0.180	A	2.000	2.000	---	---	---	10	20
21	12	BASEMENT KITCHEN REC	20/1	E	0.180	A	1.644	1.644	20/2	---	GRINDER PUMP	10	22
23	12	BASEMENT KITCHEN REC	20/1	E	0.180	A	1.644	1.644	---	---	---	10	24
25	12	BASEMENT KITCHEN REC	20/1	E	0.180	A	1.644	1.644	20/2	---	GRINDER PUMP	10	26
27	12	BASEMENT REFRIG REC	20/1	E	0.800	A	1.644	1.644	---	---	---	10	28
29	12	BASEMENT REFRIG REC	20/1	E	0.800	A	0.400	0.400	20/1	---	DOOR MOTOR OPERATOR	12	30
31	12	BASEMENT RESTROOM REC	20/1	E	0.360	A	0.000	0.000	20/1	---	SPARE	32	32
33	12	BASEMENT UTILITY RM REC	20/1	E	0.180	A	0.000	0.000	---	---	SPACE	34	34
35	12	BASEMENT GAS WTR HTR	20/1	E	0.180	B	0.000	0.000	---	---	SPACE	36	36
37	12	BASEMENT GARAGE DISP	20/2	E	0.800	A	0.000	0.000	---	---	SPACE	38	38
E	(EXISTING) PANEL SUSPENDED	200/2	E	14.000	14.000	B	0.000	0.000	---	---	SPACE	---	---
E	---	---	---	E	14.000	14.000	0.000	0.000	---	---	SPACE	---	---

Actual Load Panel Summary N.E.C. Load Panel Summary Breaker Options (If Used):
 Phase A: 40.2 KVA Phase A: 40.2 KVA E - Existing Breaker/Circuit to Remain
 Phase B: 40.9 KVA Phase B: 40.9 KVA LO - Lock-On Device
 Total: 81.1 KVA Total: 81.1 KVA 338.1 AMPS IP - Isolated Ground Conductor
 --- --- --- --- --- --- --- --- --- --- --- --- ---
 Total: 81.1 KVA Total: 81.1 KVA 338.1 AMPS --- --- --- --- --- --- --- --- --- ---

NOTE: ELECTRIC PANELS ARE LOCATED ON FIRST FLOOR IN ELECTRICAL ROOM. ONLY PANEL 'MDP' HAS ANY CHANGES.

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 Cleveland Hts, Ohio 44118

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 Fax: 216.752.3833



James Knochel, License #70712
 Expiration Date 12/31/2019

Basement - Kiwanis Lodge
 27285 Highland Road
 Richmond Heights, OH 44143

ISSUE	DATE
Bid & Permit	10-16-2018

PROJECT NUMBER	N18505
DRAWN BY	JND
CHECKED BY	JAK

Electrical Plan,
 Schedules, Notes &
 Details

E-1