

ELECTRICAL SYMBOLS AND ABBREVIATIONS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AIC	AMPERE INTERRUPTING CAPACITY	MMD	METERING DEVICE
AT	ASTRONOMIC TIMER	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CP	CONTROL PANEL	PB	PULLBOX
CPT	CONTROL POWER TRANSFORMER	PS	PRESSURE SWITCH
DPI	DIFFERENTIAL PRESSURE INDICATOR	RVSS	REDUCED VOLTAGE SOLID STATE STARTER
DPS	DIFFERENTIAL PRESSURE SWITCH	S/L	STOP/LOCKOUT
DS	DOOR MOUNTED SWITCH(INTRUSION ALARM)	S.S.	STAINLESS STEEL
EHH	ELECTRICAL HANDHOLE	SV	SOLENOID VALVE
EMH	ELECTRICAL MANHOLE	T	THERMOSTAT
EUH	ELECTRIC UNIT HEATER	TB	TERMINAL BOX
FI	FLOW INDICATOR	TD	TIME DELAY RELAY
FO	FIBER OPTIC	TC	TIME DELAY CLOSE
F	FLOW SWITCH	TO	TIME DELAY OPEN
FR	FRACTIONAL HORSEPOWER	UPS	UNINTERRUPTIBLE POWER SUPPLY
FS	FLOAT SWITCH	VFD	VARIABLE FREQUENCY DRIVE
FVNR	FULL VOLTAGE NON-REVERSING STARTER		
GC	GENERAL CONTRACTOR		
GFI	GROUND FAULT CIRCUIT INTERRUPTER		
HOF	HEAT-OFF-FAN SWITCH		
HOA	HAND-OFF-AUTOMATIC SWITCH		
LC	LIGHTING CONTACTOR		
MCC	MOTOR CONTROL CENTER		

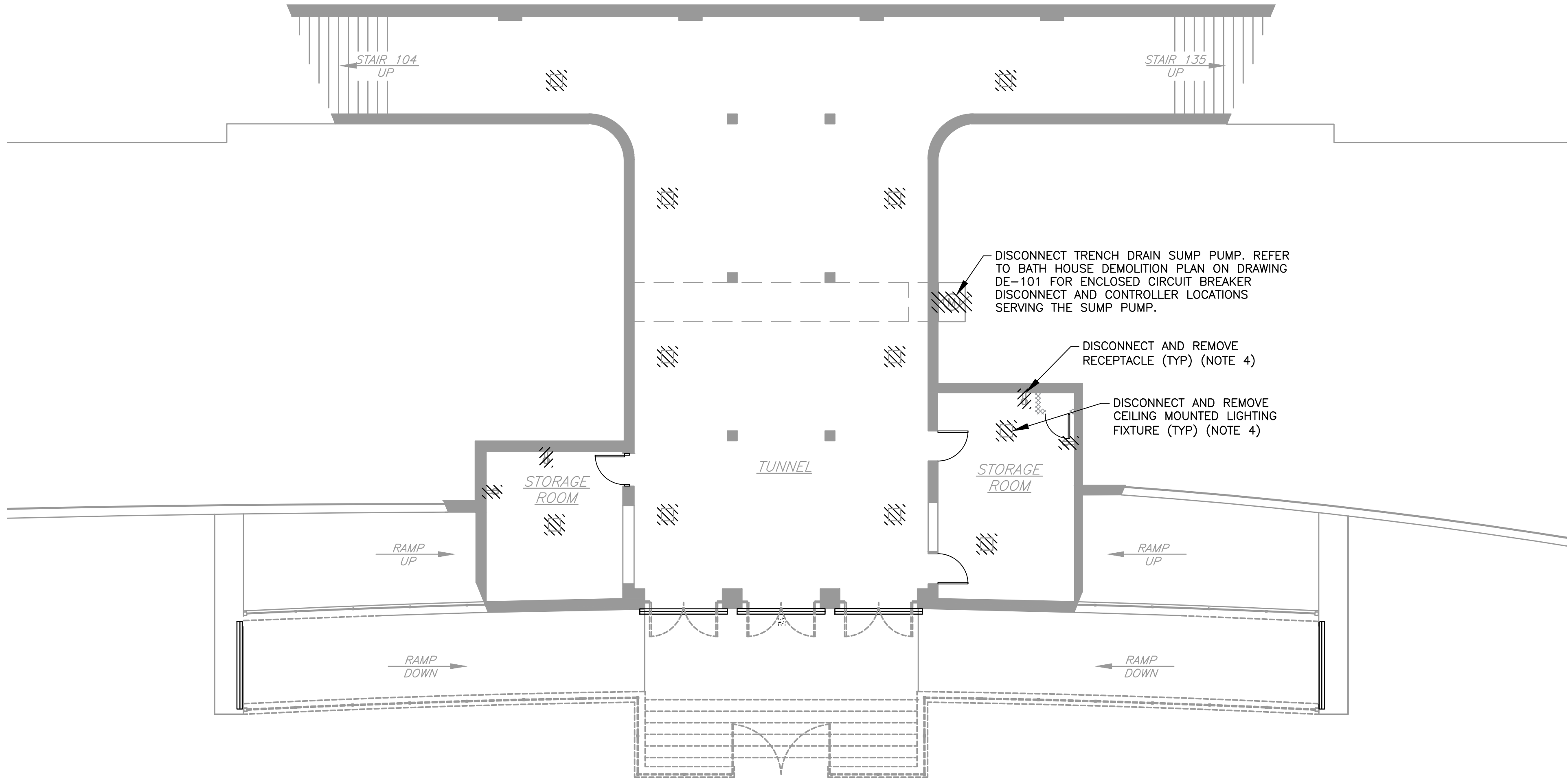
SYMBOLS

	JUNCTION BOX		DISCONNECT SWITCH, 3 POLE, 3 FUSE(a INDICATES SWITCH RATING AND b INDICATES FUSE RATING, IN AMPS)
	SWITCH(LOWER CASE LETTER INDICATES FIXTURES & EQUIPMENT TO BE SWITCHED)(REFER TO SPECIFICATION FOR RATINGS)		NON-FUSED DISCONNECT SWITCH (a INDICATES SWITCH RATING IN AMPS)
	THREE-WAY SWITCH(LOWER CASE LETTER INDICATES FIXTURES AND EQUIPMENT TO BE SWITCHED)(REFER TO SPECIFICATION FOR RATINGS).		COMBINATION MOTOR STARTER
	DUPLEX RECEPTACLE, 2 POLE,3 WIRE,120V,20A, 18" A.F.F. UNLESS OTHERWISE NOTED		SINGLE PHASE MOTOR STARTING SWITCH WITH TERMINAL OVERLOAD
	GRD FAULT CIRCUIT INTERRUPTER		MOTOR STARTER
	DUPLEX RECEPTACLE, 2 POLE 3 WIRE, 120V,20A,18" A.F.F. UNLESS OTHERWISE NOTED		CONTROL STATION
	RECEPTACLE, SPECIFIC PURPOSE - VERIFY REQMT		LIMIT SWITCH
	AIR TERMINAL FOR LIGHTNING PROTECTION SYSTEM		SELECTOR SWITCH
	GROUND ROD WITH INSPECTION WELL		MOTION DETECTOR
	SECTION OF CONCRETE CONDUIT BANK		DEVICE(SEE ABBREVIATIONS FOR TYPE)
	THERMOSTAT		208Y/120V UTILITY PANEL
	CONTROL STATION		480Y/277V UTILITY PANEL
	AC COMBINATION FULL VOLTAGE NON-REVERSING STARTER WITH MAGNETIC BREAKER		HOME RUN TO PANELBOARD LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER
	TRANSFORMER (SEE SINGLE LINE DIAGRAM)		INDICATES WIRE AND CONDUIT RUN (SEE CONDUIT AND CABLE SCHEDULE)
	TRANSFORMER-TYPE AND SIZE AS NOTED ON THE DRAWINGS AND IN SPECIFICATIONS		GROUND CABLE
	FUSE		CONDUIT AND WIRING RUN EXPOSED
	MICROPROCESSOR BASED METERING DEVICE (SEE SPECIFICATIONS)		CONDUIT CONCEALED OR BURIED
	CIRCUIT BREAKER (C INDICATES FRAME SIZE AND D INDICATES TRIP SIZE)		CONDUIT (TURNED UP)
	MOTOR - INSERT DENOTES HORSE POWER		CONDUIT (TURNED DOWN)
	WALL BATTERY PACK - 2 LITE FIXTURE		CONDUIT FOR TELEPHONE SYSTEM
	LIGHTING FIXTURE (UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES RESPECTIVE SWITCH.) SEE SPECIFICATION FOR FIXTURE SCHEDULE		LIMIT SWITCH
	EXIT LIGHT		FLOW SWITCH
			CAPPED CONDUIT (EXPOSED)
			KEY INTERLOCK

 4 WEST RED OAK LANE WHITE PLAINS, NY, 10604 (914)467-5300	 UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. IN CHARGE OF JHM CHECKED BY CAL MADE BY MN	RECORD DRAWING CERTIFICATION						WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-001
										SHEET NO. 137 OF 201	
										SCALE: AS NOTED DATE: NOVEMBER 10, 2020	
										DPW FILE NO. 1-19-E-494	
						CONTRACTOR		PROJECT COORDINATOR		REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK	
						NAME		NAME		REV. NO.	
						SIGNATURE		SIGNATURE		0	
						TITLE		TITLE			
						DATE		DATE			
						REVISION					

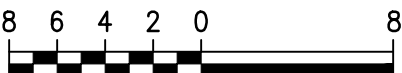
NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL CONDUIT AND WIRE RELATED TO ITEMS AND EQUIPMENT REMOVED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. DEMOLITION SHALL INCLUDE HANGERS, PIPE CLAMPS, JUNCTION BOXES, ANCHORS, SUPPORTS AND CONDUIT FITTINGS.
3. CABLE AND WIRE IN CONDUIT EMBEDDED IN WALLS AND FLOORS SHALL BE REMOVED AND CONDUIT PLUGGED FLUSH WITH SURFACE. CONTRACTOR SHALL REMOVE ALL SPALLED, CRACKED, OR LOOSE CONCRETE COVER OVER EXISTING EMBEDDED CONDUIT, BACK TO SOUND CONCRETE. CONTRACTOR SHALL PATCH ALL PITS, CRACKS, ETC., LEVEL WITH EXISTING SURFACES. APPLY BONDING COMPOUND PRIOR TO PLACING NON-SHRINK GROUT.
4. CONDUIT AND WIRE SERVING LIGHTING FIXTURES AND RECEPTACLES IN THE BEACH ACCESS TUNNEL SHALL BE DISCONNECTED AND REMOVED BACKED TO THE BEACH ACCESS TUNNEL LIGHTING PANEL 'PP1' LOCATED IN THE MEN'S BATH HOUSE. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACKED TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
5. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.
6. REFER TO DRAWING G-101 FOR TEMPORARY LIGHTING REQUIREMENTS IN TUNNEL, PROVIDE POWER TO TEMPORARY LIGHTING SYSTEM.



PROJECT NORTH

1/8"=1'-0"



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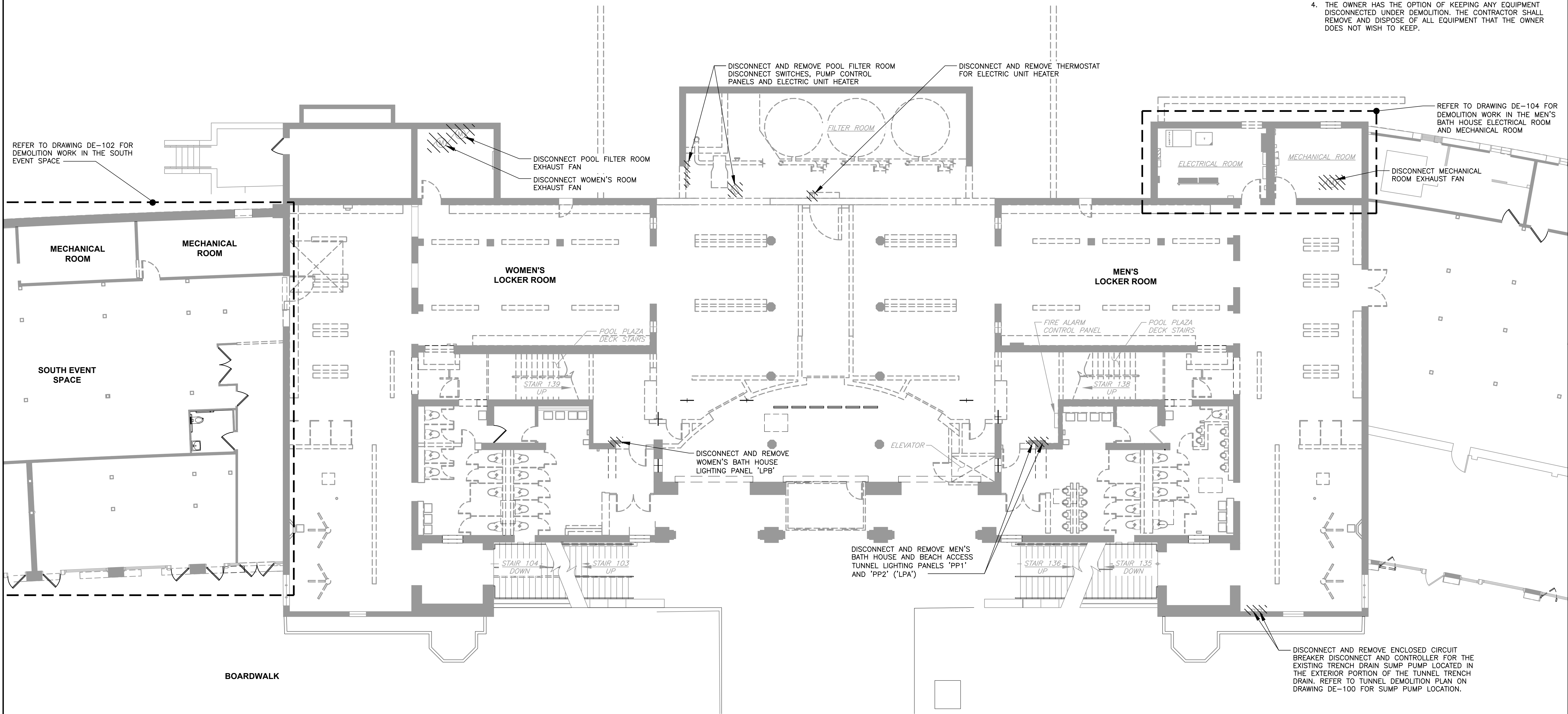
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-100
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 138 OF 201	
TUNNEL PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-495	REV. NO. 0

- NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. ALL CONDUIT AND WIRE RELATED TO ITEMS AND EQUIPMENT REMOVED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. DEMOLITION SHALL INCLUDE HANGERS, PIPE CLAMPS, JUNCTION BOXES, ANCHORS, SUPPORTS AND CONDUIT FITTINGS.
 3. CABLE AND WIRE IN CONDUIT EMBEDDED IN WALLS AND FLOORS SHALL BE REMOVED AND CONDUIT PLUGGED FLUSH WITH SURFACE. CONTRACTOR SHALL REMOVE ALL SPALLED, CRACKED, OR LOOSE CONCRETE COVER OVER EXISTING EMBEDDED CONDUIT, BACK TO SOUND CONCRETE. CONTRACTOR SHALL PATCH ALL PITS, CRACKS, ETC., LEVEL WITH EXISTING SURFACES. APPLY BONDING COMPOUND PRIOR TO PLACING NON-SHRINK GROUT.
 4. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.



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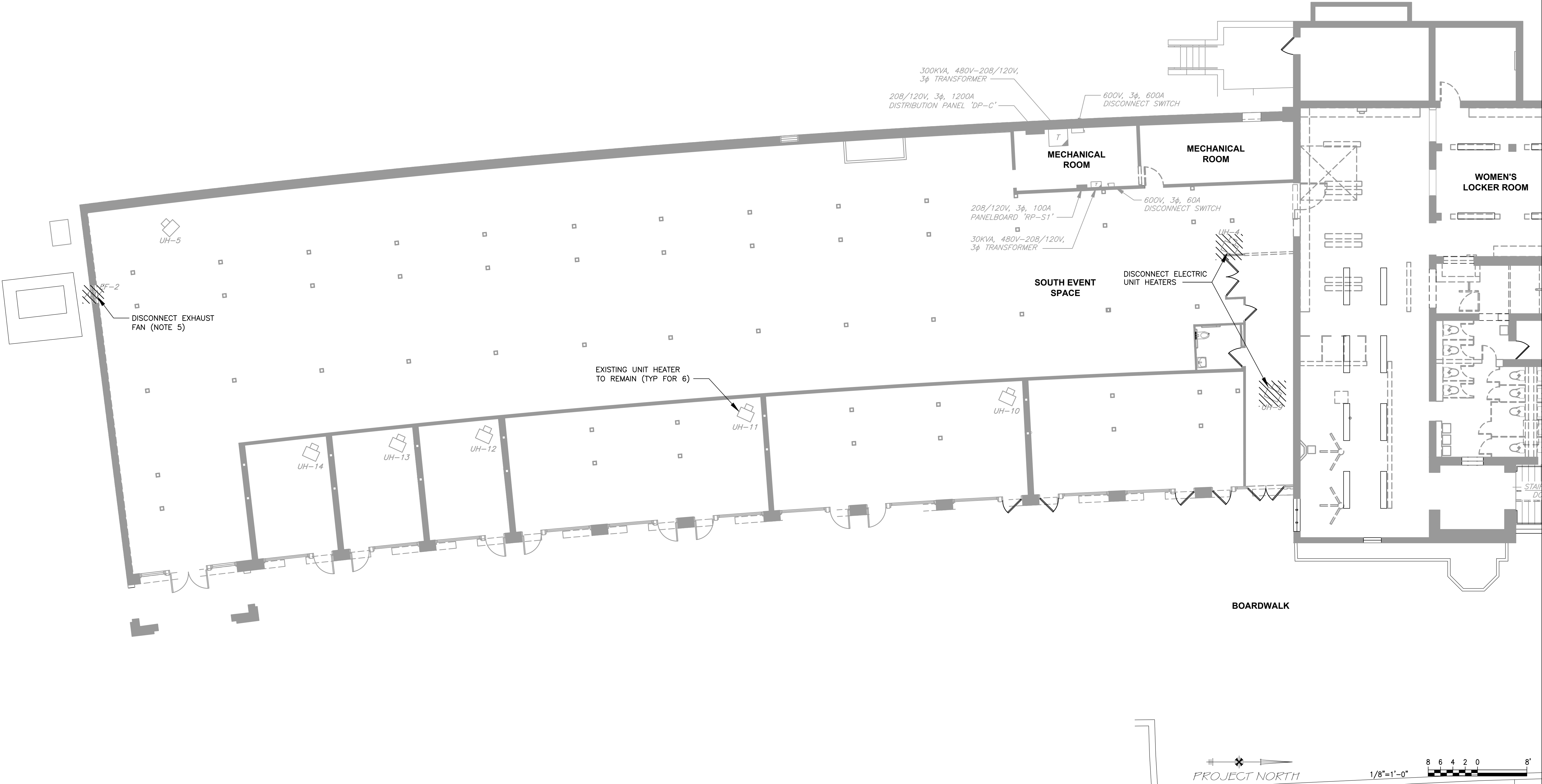
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-101
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 139 OF 201	
BATHHOUSE POWER PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-496	REV. NO. 0

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL CONDUIT AND WIRE RELATED TO ITEMS AND EQUIPMENT REMOVED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. DEMOLITION SHALL INCLUDE HANGERS, PIPE CLAMPS, JUNCTION BOXES, ANCHORS, SUPPORTS AND CONDUIT FITTINGS.
3. CABLE AND WIRE IN CONDUIT EMBEDDED IN WALLS AND FLOORS SHALL BE REMOVED AND CONDUIT PLUGGED FLUSH WITH SURFACE. CONTRACTOR SHALL REMOVE ALL SPALLED, CRACKED, OR LOOSE CONCRETE COVER OVER EXISTING EMBEDDED CONDUIT, BACK TO SOUND CONCRETE. CONTRACTOR SHALL PATCH ALL PITS, CRACKS, ETC., LEVEL WITH EXISTING SURFACES. APPLY BONDING COMPOUND PRIOR TO PLACING NON-SHRINK GROUT.
4. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.
5. CONTRACTOR SHALL STORE AND MAINTAIN THE EXISTING SOUTH EVENT SPACE EXHAUST FAN TO BE RELOCATED AS PART OF THE NEW WORK.



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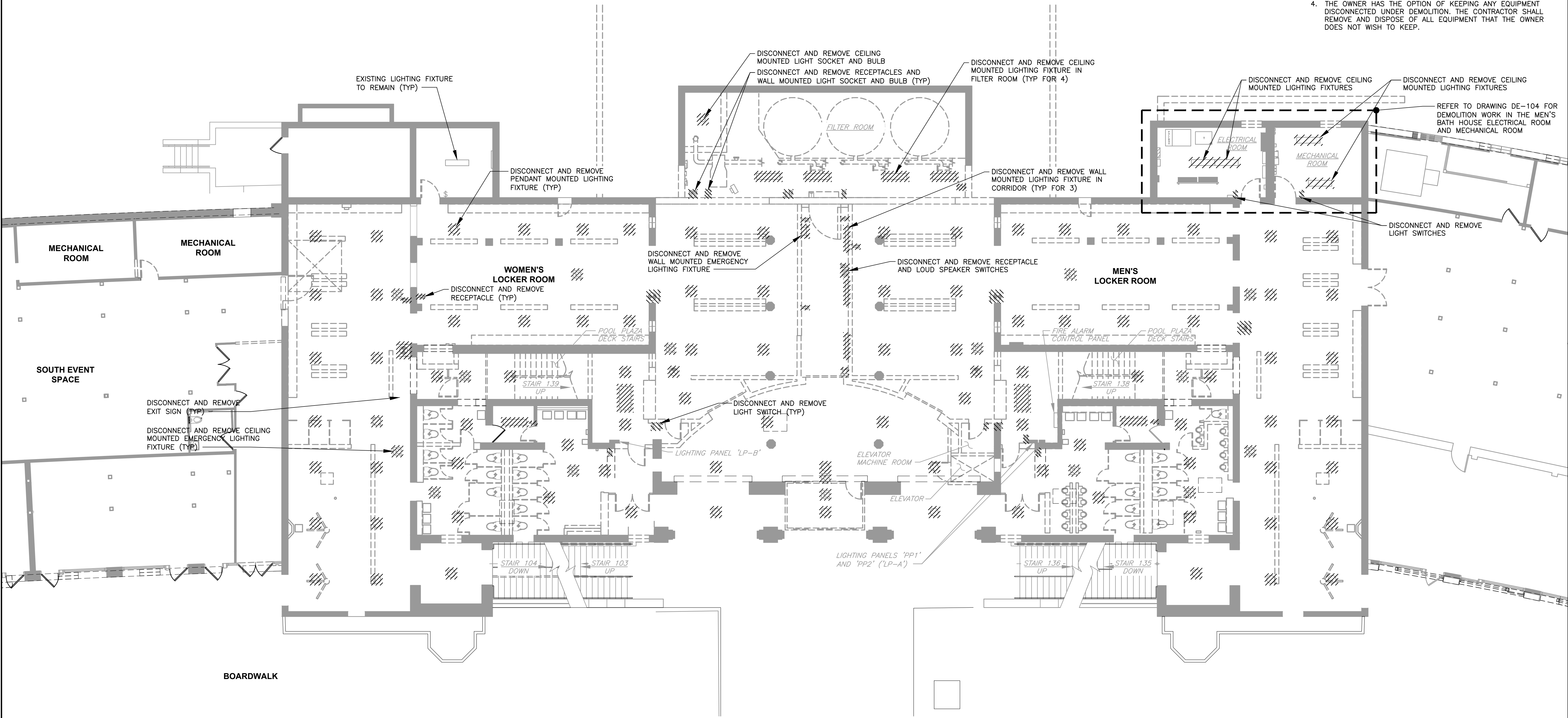
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-102
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 140 OF 201	
SOUTH EVENT SPACE POWER PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-497	REV. NO. 0

- NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. ALL CONDUIT AND WIRE RELATED TO ITEMS AND EQUIPMENT REMOVED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. DEMOLITION SHALL INCLUDE HANGERS, PIPE CLAMPS, JUNCTION BOXES, ANCHORS, SUPPORTS AND CONDUIT FITTINGS.
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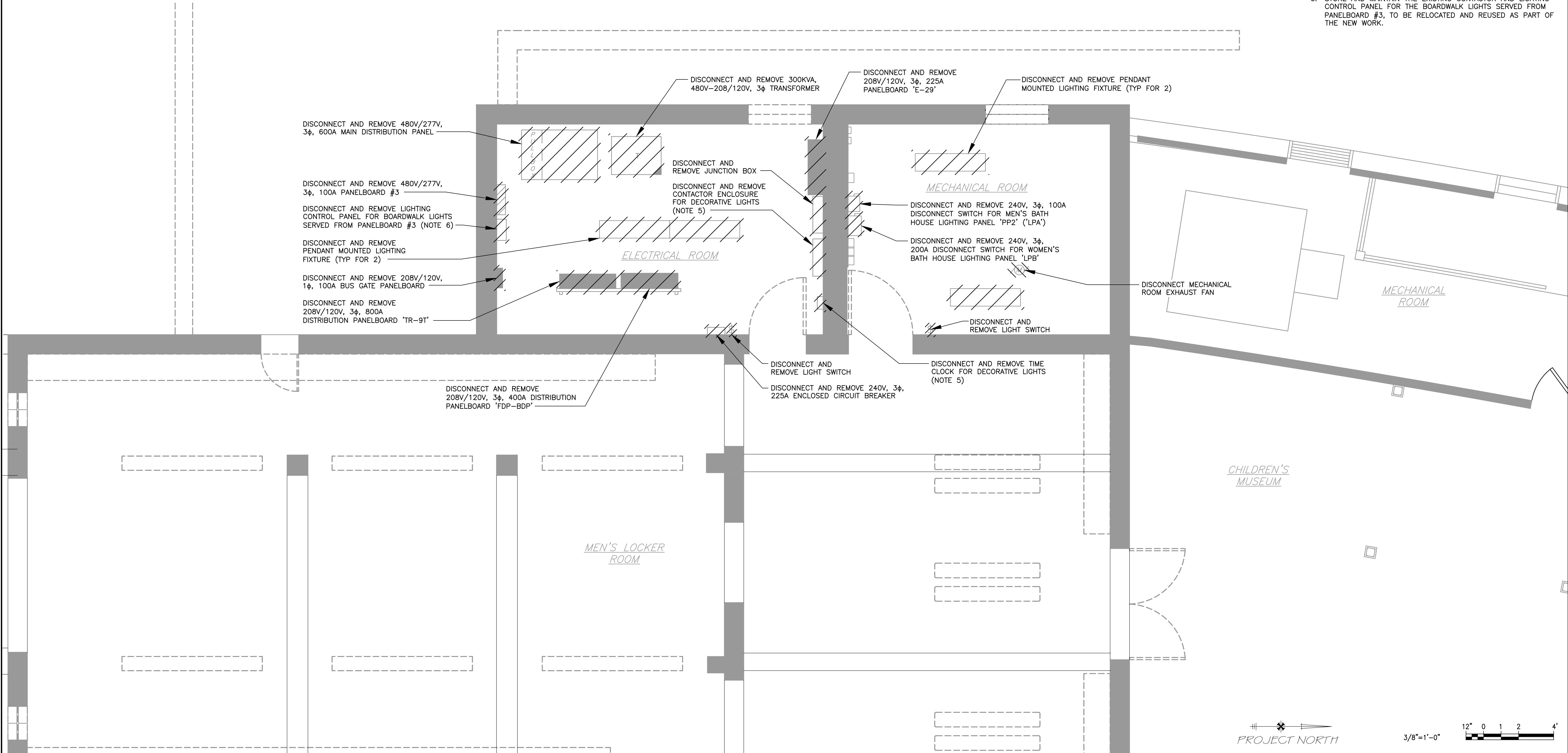
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REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 141 OF 201	
BATHHOUSE LIGHTING PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO.	REV. NO. 0

NOTES:

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4. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.
5. STORE AND MAINTAIN THE EXISTING TIME CLOCK, SERVING THE BUS SHELTER AND BOARDWALK DECORATIVE LIGHTS, TO BE RELOCATED AND REUSED AS PART OF THE NEW WORK.
6. STORE AND MAINTAIN THE EXISTING CONTACTOR AND LIGHTING CONTROL PANEL FOR THE BOARDWALK LIGHTS SERVED FROM PANELBOARD #3, TO BE RELOCATED AND REUSED AS PART OF THE NEW WORK.



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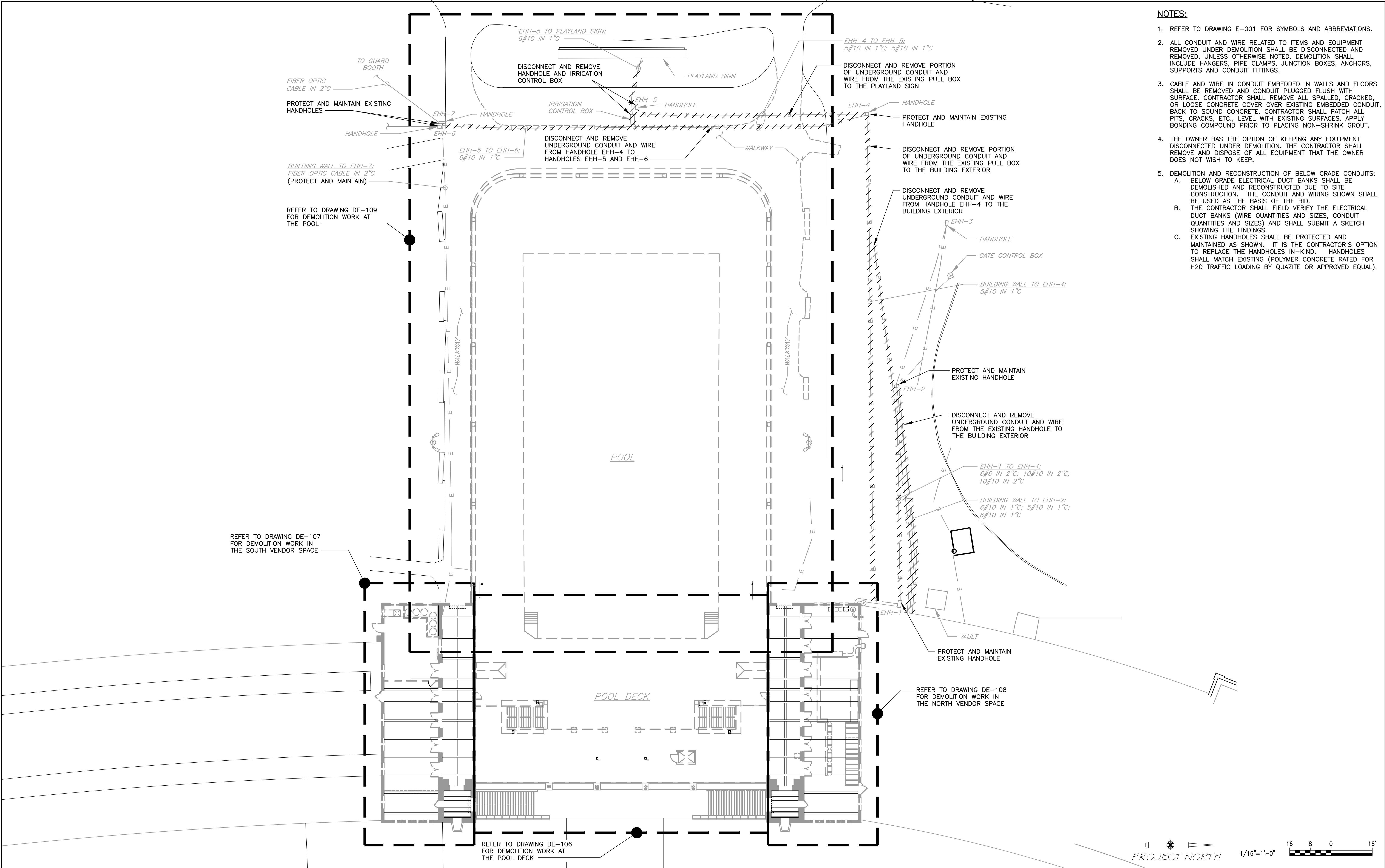
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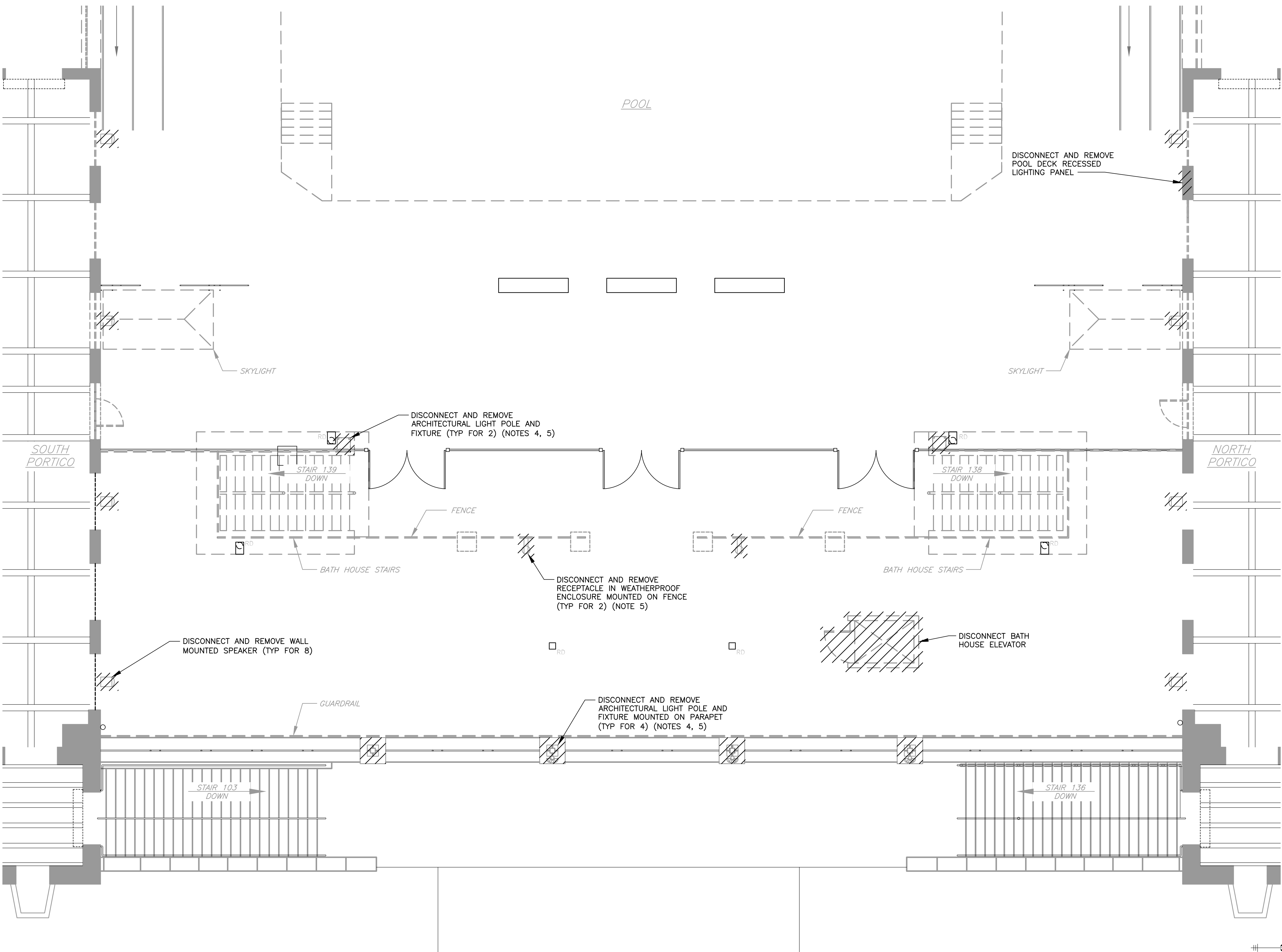
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-104
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 142 OF 201	
ELECTRICAL AND MECHANICAL ROOM PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO.	REV. NO. 0



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		REVISION NUMBER DATE MADE BY APP'D BY REVISION				NAME CONTRACTOR PROJECT COORDINATOR SIGNATURE DATE TITLE DATE				REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK POOL DECK LEVEL PLAN - DEMOLITION		DPW FILE NO. 1-19-E-500	

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 3. CABLE AND WIRE IN CONDUIT EMBEDDED IN WALLS AND FLOORS SHALL BE REMOVED AND CONDUIT PLUGGED FLUSH WITH SURFACE. CONTRACTOR SHALL REMOVE ALL SPALLED, CRACKED, OR LOOSE CONCRETE COVER OVER EXISTING EMBEDDED CONDUIT, BACK TO SOUND CONCRETE. CONTRACTOR SHALL PATCH ALL PITS, CRACKS, ETC., LEVEL WITH EXISTING SURFACES. APPLY BONDING COMPOUND PRIOR TO PLACING NON-SHRINK GROUT.
 4. CONTRACTOR SHALL SAFELY REMOVE AND PROTECT THE EXISTING ARCHITECTURAL LIGHT POLES TO BE REFURBISHED AND REINSTALLED AS PART OF THE NEW WORK.
 5. CONDUIT AND WIRE SERVING LIGHTING FIXTURES AND RECEPTACLES AT THE POOL DECK SHALL BE DISCONNECTED AND REMOVED BACK TO THE POOL DECK RECESSED LIGHTING PANEL. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACK TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
 6. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.



PROJECT NORTH

3/16"=1'-0" 6 4 2 0 5'

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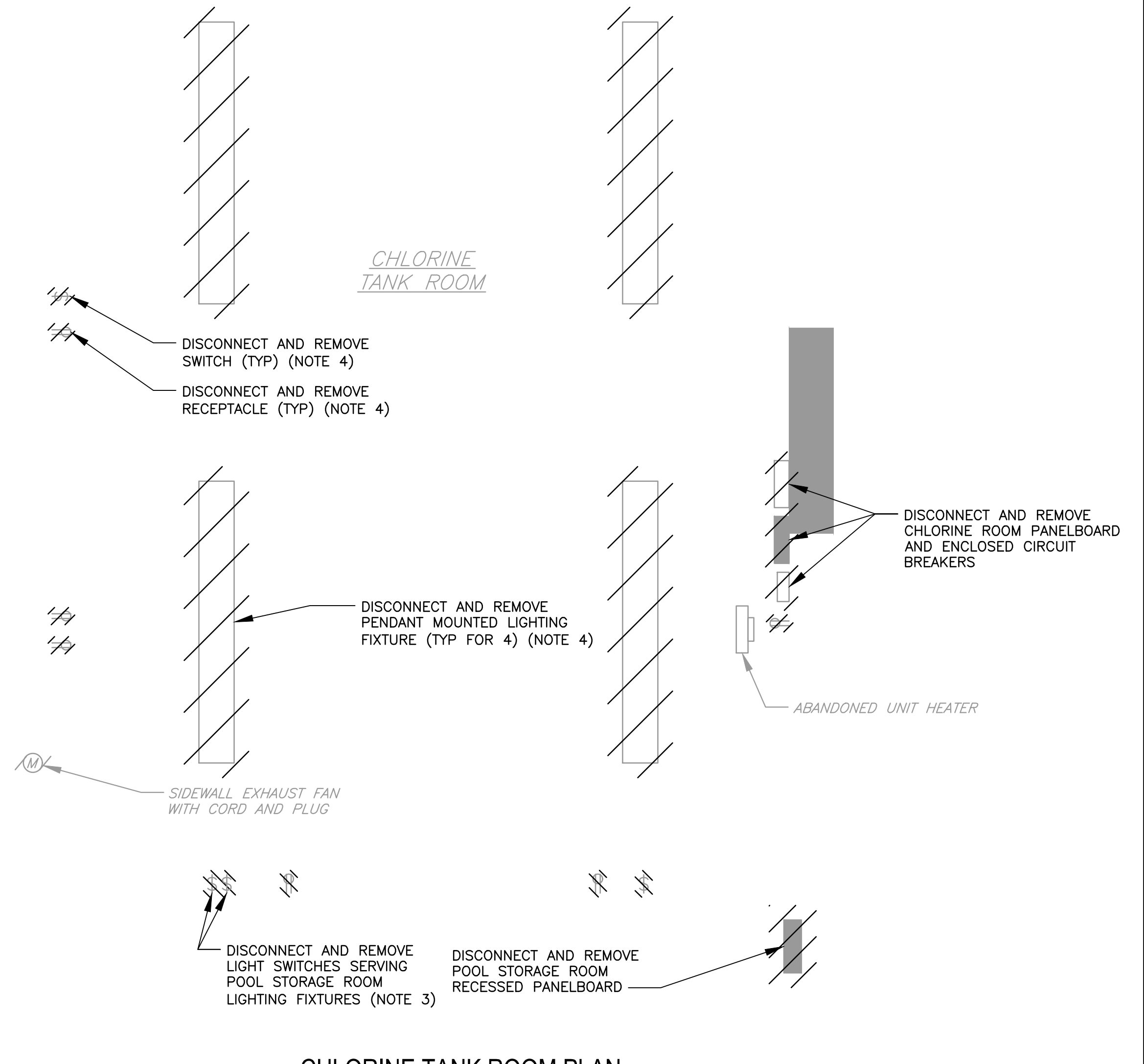
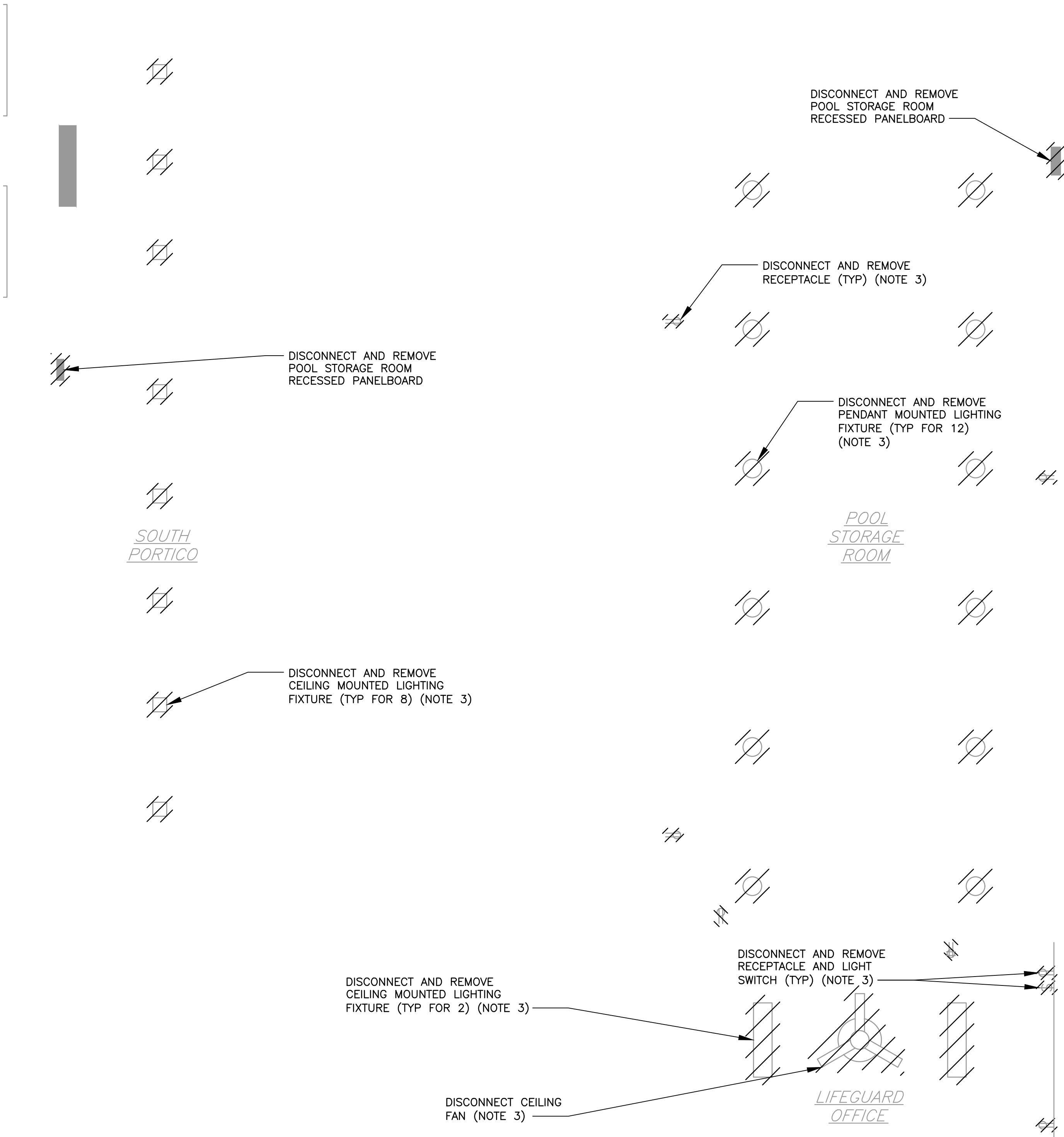
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-106
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 144 OF 201	
ENLARGED POOL DECK PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-501	REV. NO. 0

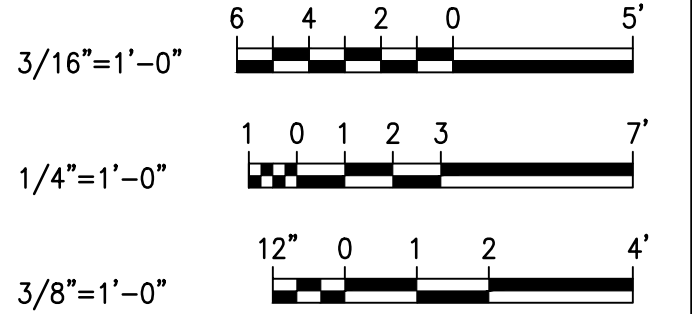
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 3. CONDUIT AND WIRE SERVING ELECTRICAL EQUIPMENT (LIGHTING FIXTURES, SWITCHES, RECEPTACLES, FANS, ETC.) LOCATED IN THE SOUTH PORTICO, POOL STORAGE ROOM AND LIFEGUARD OFFICE SHALL BE DISCONNECTED AND REMOVED BACKED TO THE POOL STORAGE ROOM RECESSED PANELBOARD. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACKED TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
 4. CONDUIT AND WIRE SERVING ELECTRICAL EQUIPMENT (LIGHTING FIXTURES, SWITCHES, RECEPTACLES, ETC.) LOCATED IN THE CHLORINE ROOM SHALL BE DISCONNECTED AND REMOVED BACKED TO THE CHLORINE ROOM PANELBOARD. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACKED TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
 5. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.



SOUTH PORTICO PLAN
SCALE: 3/16" = 1'-0"

POOL STORAGE AREA AND LIFEGUARD OFFICE PLAN
SCALE: 1/4" = 1'-0"

CHLORINE TANK ROOM PLAN
SCALE: 3/8" = 1'-0"



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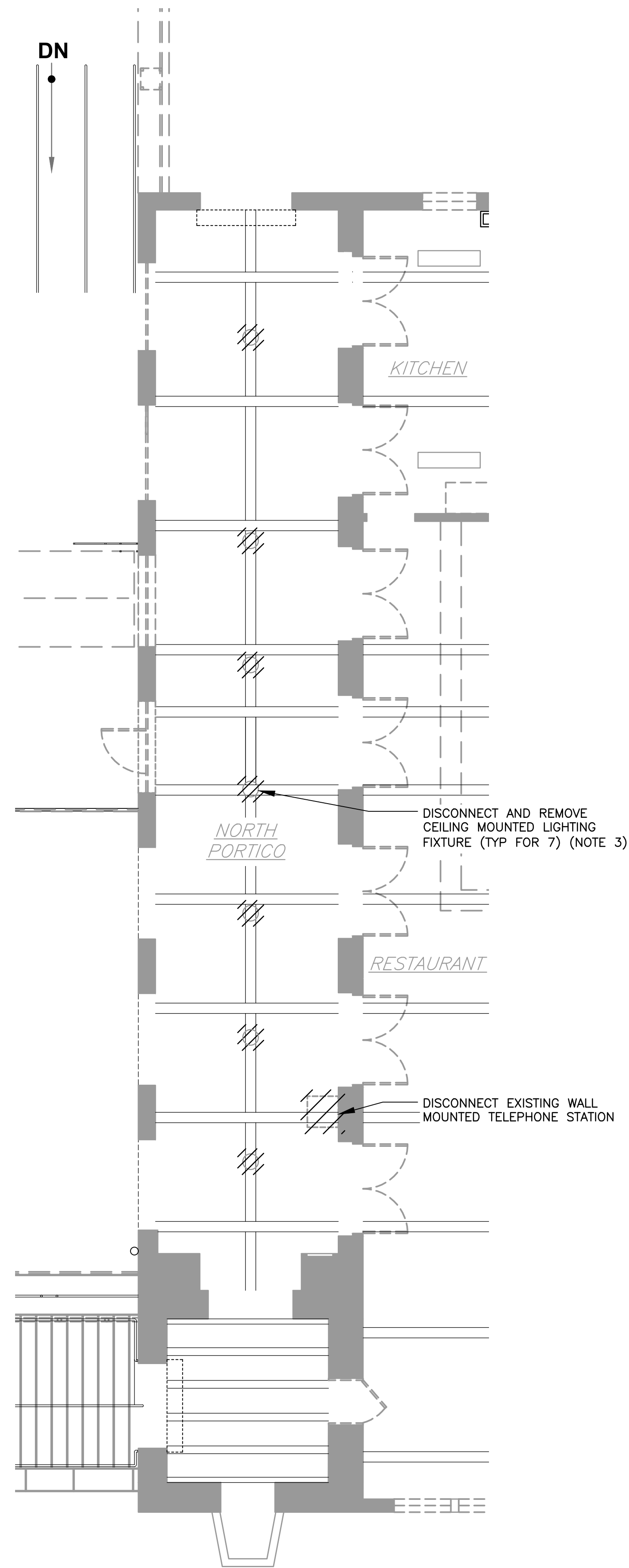
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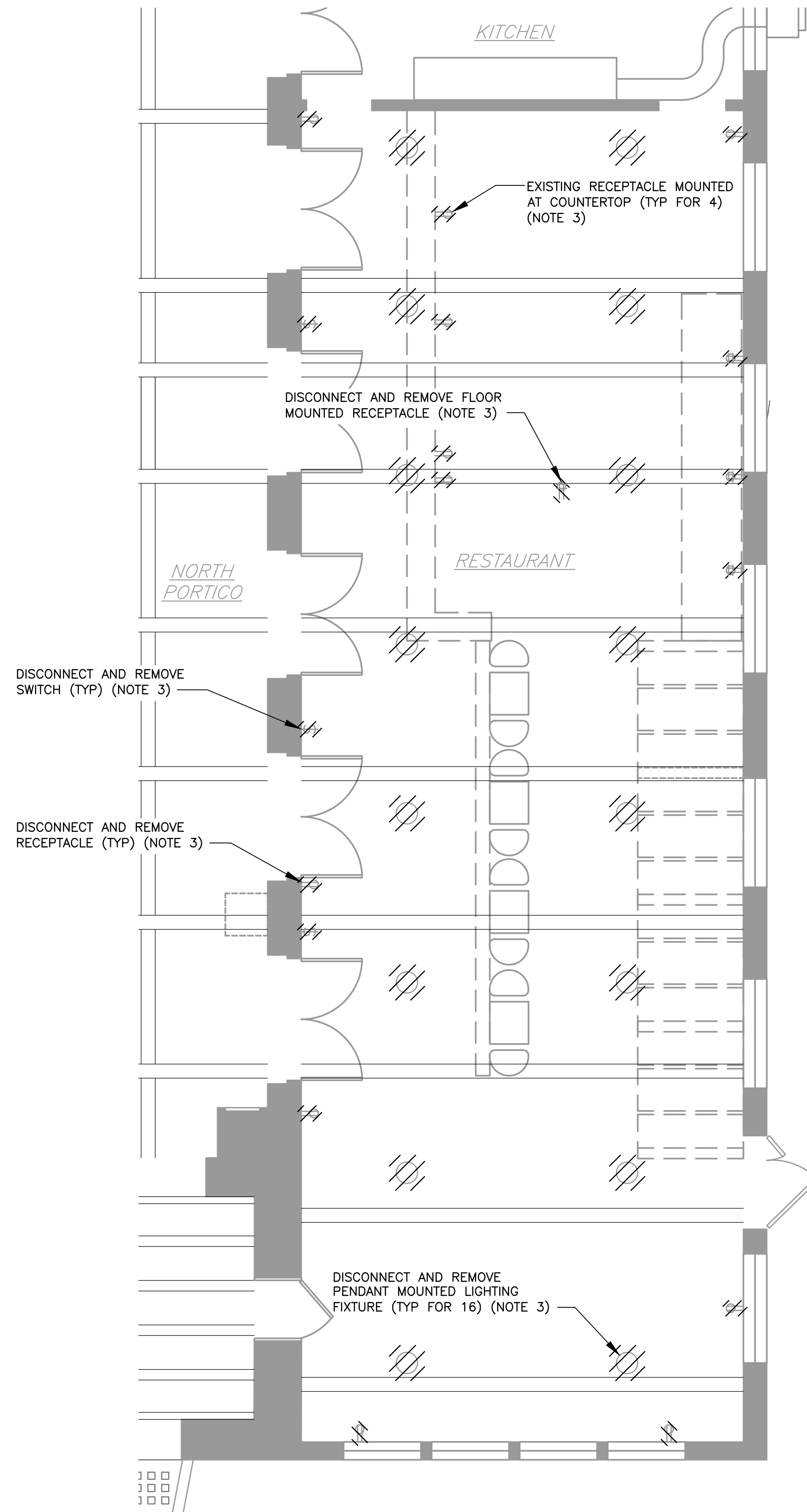
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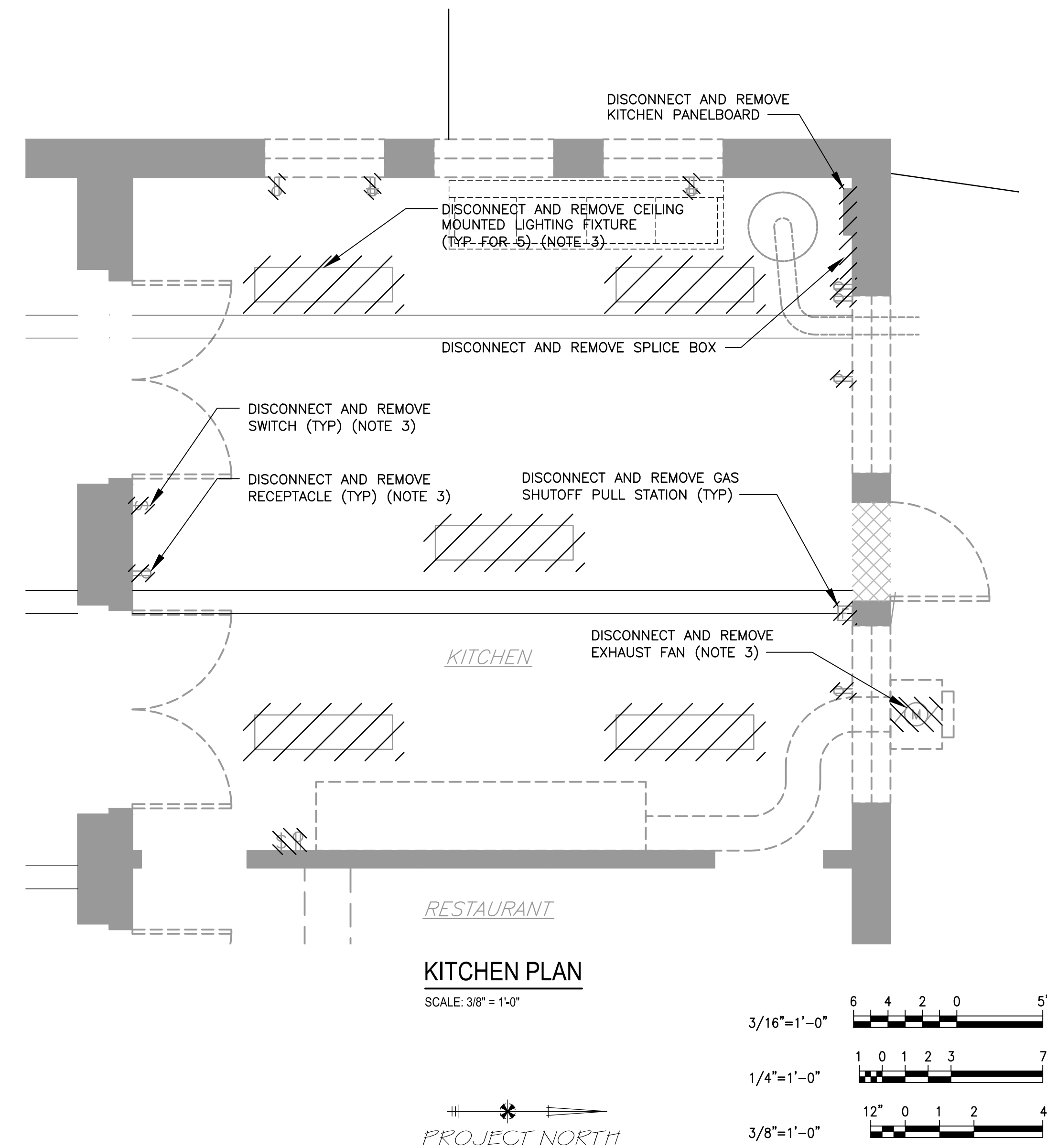
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-107
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 145 OF 201	
SOUTH VENDOR SPACE PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO.	REV. NO. 0



NORTH PORTICO PLAN
SCALE: 3/16" = 1'-0"



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



KITCHEN PLAN
SCALE: 3/8" = 1'-0"



PROJECT NORTH

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL CONDUIT AND WIRE RELATED TO ITEMS AND EQUIPMENT REMOVED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. DEMOLITION SHALL INCLUDE HANGERS, PIPE CLAMPS, JUNCTION BOXES, ANCHORS, SUPPORTS AND CONDUIT FITTINGS.
3. CONDUIT AND WIRE SERVING ELECTRICAL EQUIPMENT (LIGHTING FIXTURES, SWITCHES, RECEPTACLES, EXHAUST FANS, ETC.) LOCATED IN THE NORTH PORTICO, RESTAURANT AND KITCHEN SHALL BE DISCONNECTED AND REMOVED BACKED TO THE KITCHEN PANELBOARD. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACKED TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
4. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.

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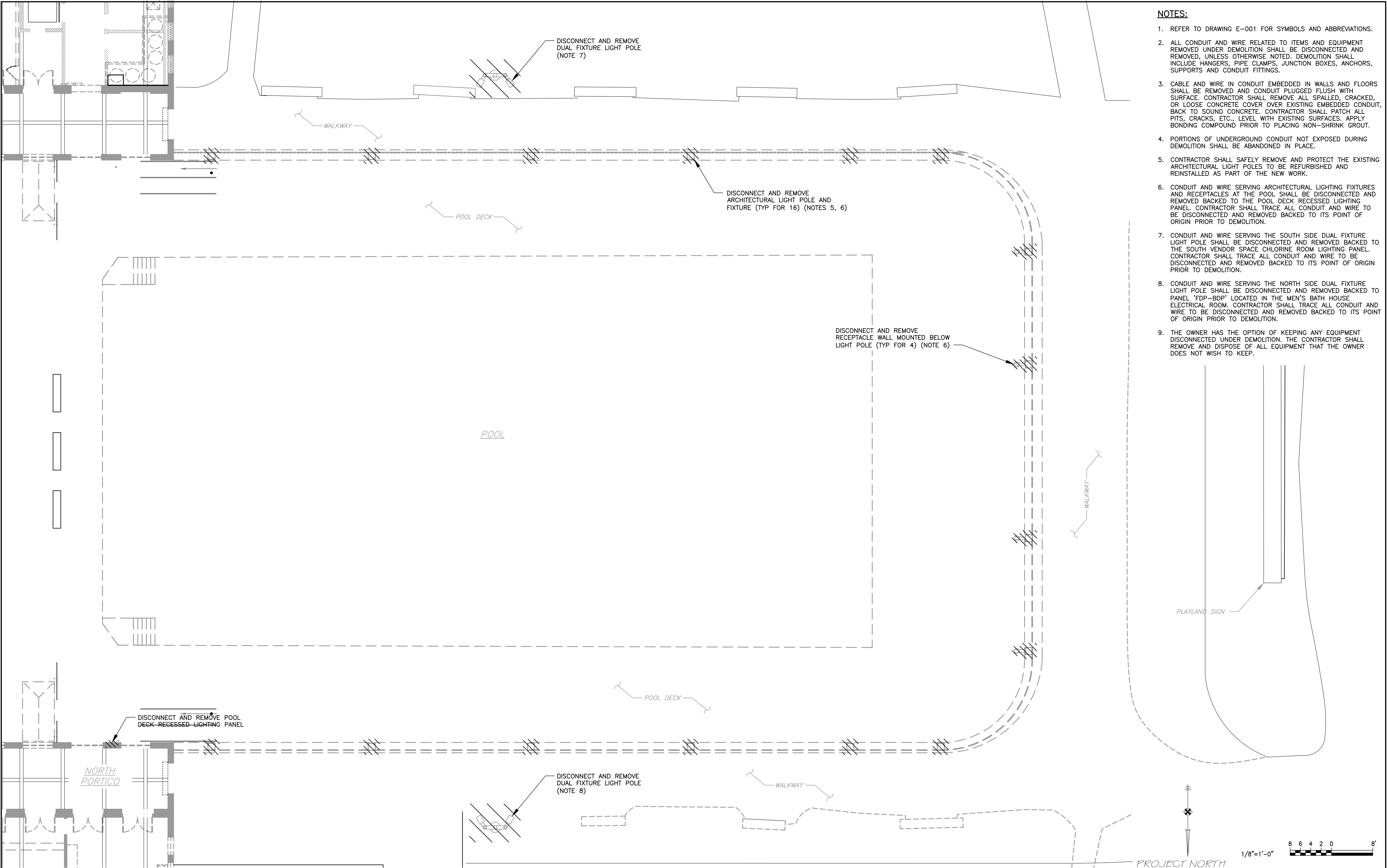
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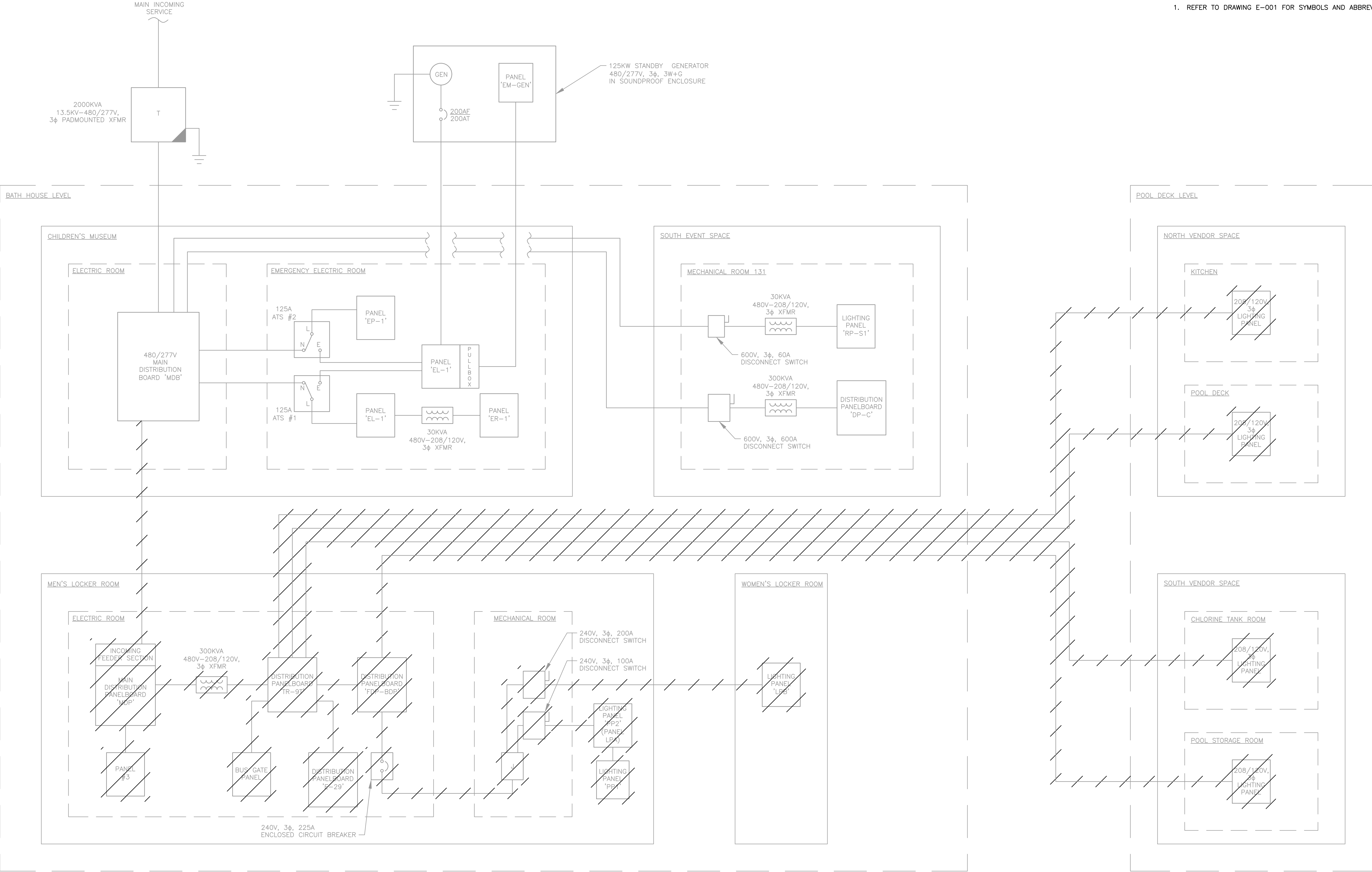
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-108
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 146 OF 201	
NORTH VENDOR SPACE PLAN - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-503	REV. NO. 0



- NOTES:**
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. ALL CONDUIT AND WIRE RELATED TO ITEMS AND EQUIPMENT REMOVED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. DEMOLITION SHALL INCLUDE HANGERS, PIPE CLAMPS, JUNCTION BOXES, ANCHORS, SUPPORTS AND CONDUIT FITTINGS.
 3. CABLE AND WIRE IN CONDUIT EMBEDDED IN WALLS AND FLOORS SHALL BE REMOVED AND CONDUIT PLUGGED FLUSH WITH SURFACE. CONTRACTOR SHALL REMOVE ALL SPALLED, CRACKED, OR LOOSE CONCRETE COVER OVER EXISTING EMBEDDED CONDUIT, BACK TO SOUND CONCRETE. CONTRACTOR SHALL PATCH ALL PITS, CRACKS, ETC., LEVEL WITH EXISTING SURFACES. APPLY BONDING COMPOUND PRIOR TO PLACING NON-SHRINK GROUT.
 4. PORTIONS OF UNDERGROUND CONDUIT NOT EXPOSED DURING DEMOLITION SHALL BE ABANDONED IN PLACE.
 5. CONTRACTOR SHALL SAFELY REMOVE AND PROTECT THE EXISTING ARCHITECTURAL LIGHT POLES TO BE REFURBISHED AND REINSTALLED AS PART OF THE NEW WORK.
 6. CONDUIT AND WIRE SERVING ARCHITECTURAL LIGHTING FIXTURES AND RECEPTACLES AT THE POOL SHALL BE DISCONNECTED AND REMOVED BACKED TO THE POOL DECK RECESSED LIGHTING PANEL. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACKED TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
 7. CONDUIT AND WIRE SERVING THE SOUTH SIDE DUAL FIXTURE LIGHT POLE SHALL BE DISCONNECTED AND REMOVED BACKED TO THE SOUTH VENDOR SPACE CHLORINE ROOM LIGHTING PANEL. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACKED TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
 8. CONDUIT AND WIRE SERVING THE NORTH SIDE DUAL FIXTURE LIGHT POLE SHALL BE DISCONNECTED AND REMOVED BACKED TO PANEL 'FDP-BDP' LOCATED IN THE MEN'S BATH HOUSE ELECTRICAL ROOM. CONTRACTOR SHALL TRACE ALL CONDUIT AND WIRE TO BE DISCONNECTED AND REMOVED BACKED TO ITS POINT OF ORIGIN PRIOR TO DEMOLITION.
 9. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.

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						CONTRACTOR		PROJECT COORDINATOR		SHEET NO. 147 OF 201	
						NAME _____ SIGNATURE _____ TITLE _____		NAME _____ SIGNATURE _____ TITLE _____		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. _____ REV. NO. 0	
IN CHARGE OF <u>JHM</u> CHECKED BY <u>CAL</u> MADE BY <u>MN</u>		REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK POOL PLAN - DEMOLITION				

NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.



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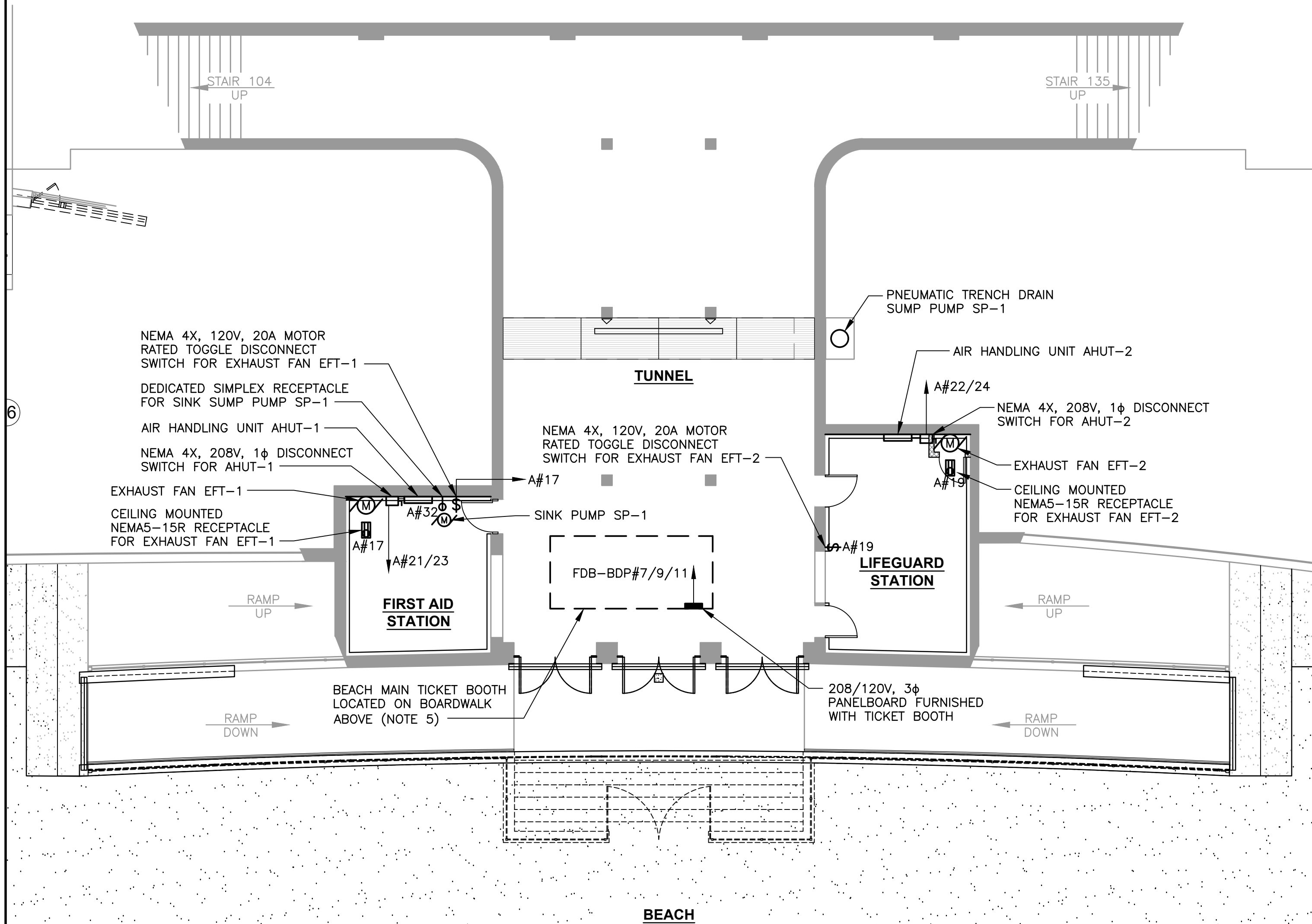
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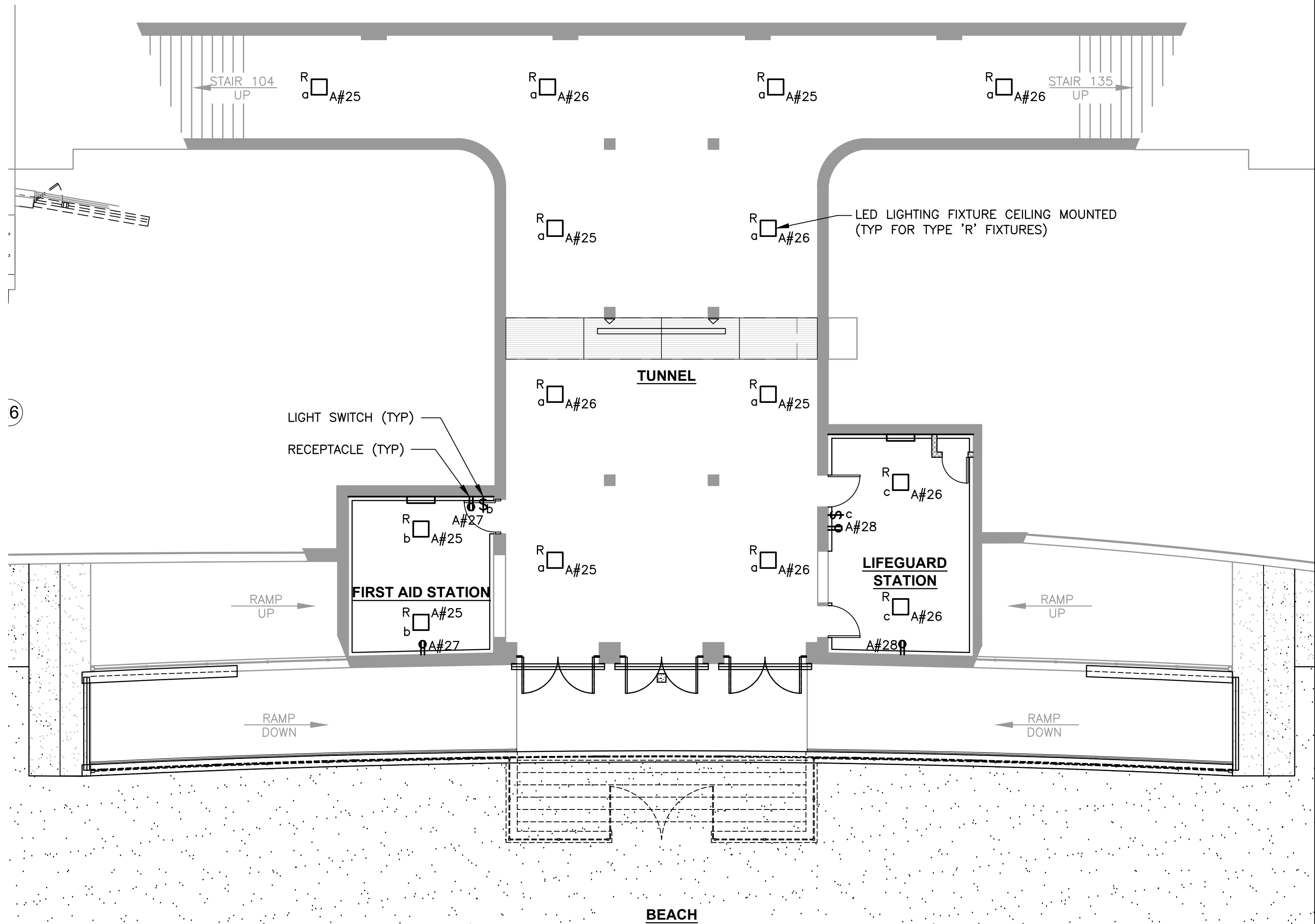
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER DE-110
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 148 OF 201	
SINGLE LINE DIAGRAM - DEMOLITION		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-505	REV. NO. 0

- NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. REFER TO DRAWINGS E-112 THRU E-114 FOR PANELBOARD SCHEDULES.
 3. REFER TO DRAWING E-115 FOR LIGHTING FIXTURE SCHEDULE.
 4. THE ELECTRICAL DRAWINGS SHOW THE POWER TO THE HVAC EQUIPMENT. ALL CONTROLS AND INTERCONNECTING CONTROL WIRING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MECHANICAL DRAWINGS AND DIVISION 23 SPECIFICATIONS.
 5. THE BEACH MAIN TICKET BOOTH IS FURNISHED AS ELECTRICALLY FINISHED, REQUIRING A POWER SUPPLY TO THE PANELBOARD.



BEACH ACCESS TUNNEL POWER PLAN

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

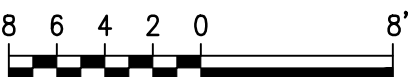


BEACH ACCESS TUNNEL LIGHTING PLAN

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



1/8"=1'-0"



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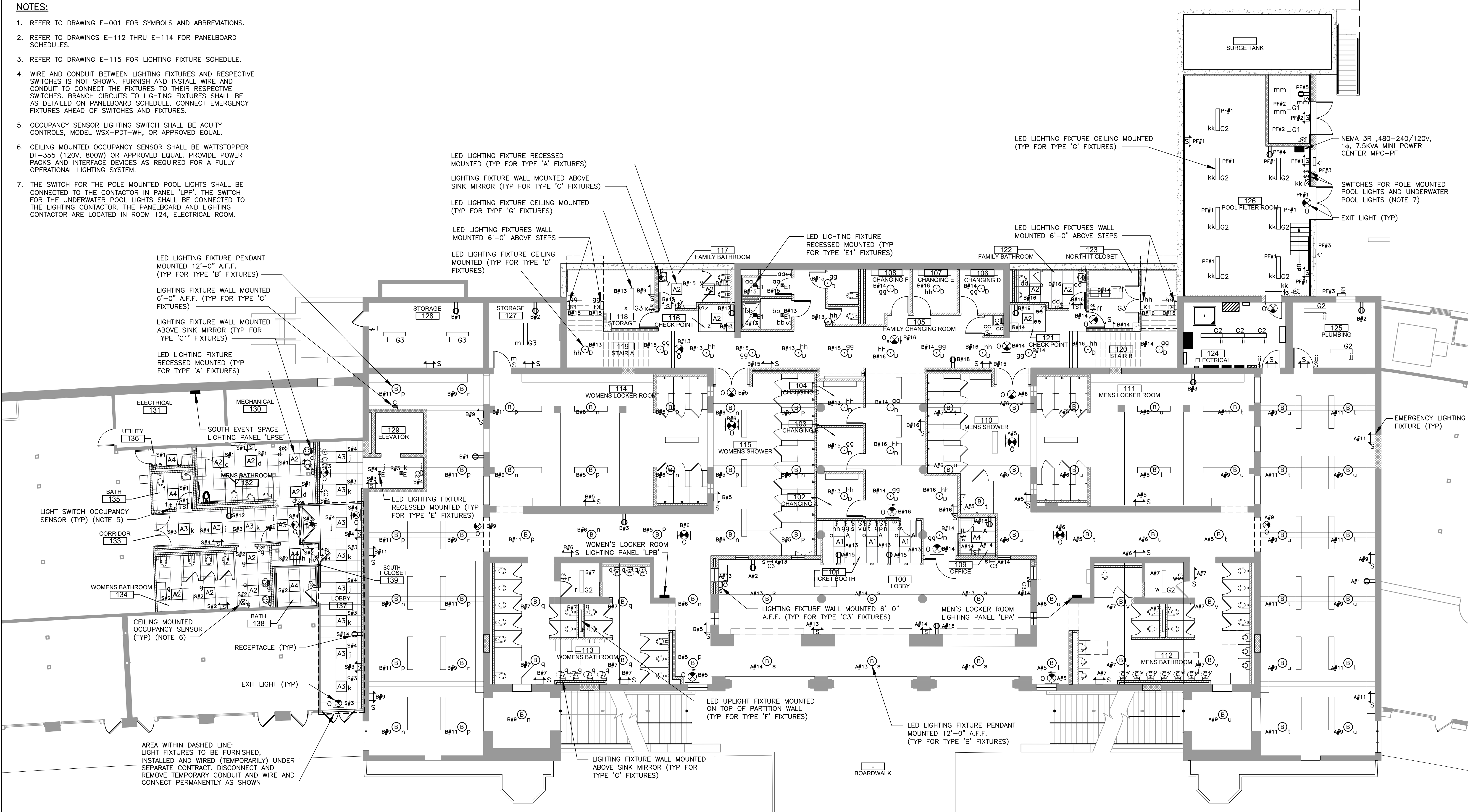
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-100
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 149 OF 201	
TUNNEL POWER AND LIGHTING PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-506	REV. NO. 0

- NOTES:
- REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 - REFER TO DRAWINGS E-112 THRU E-114 FOR PANELBOARD SCHEDULES.
 - REFER TO DRAWING E-115 FOR LIGHTING FIXTURE SCHEDULE.
 - WIRE AND CONDUIT BETWEEN LIGHTING FIXTURES AND RESPECTIVE SWITCHES IS NOT SHOWN. FURNISH AND INSTALL WIRE AND CONDUIT TO CONNECT THE FIXTURES TO THEIR RESPECTIVE SWITCHES. BRANCH CIRCUITS TO LIGHTING FIXTURES SHALL BE AS DETAILED ON PANELBOARD SCHEDULE. CONNECT EMERGENCY FIXTURES AHEAD OF SWITCHES AND FIXTURES.
 - OCCUPANCY SENSOR LIGHTING SWITCH SHALL BE ACUTY CONTROLS, MODEL WSX-PDT-WH, OR APPROVED EQUAL.
 - CEILING MOUNTED OCCUPANCY SENSOR SHALL BE WATTSTOPPER DT-355 (120V, 800W) OR APPROVED EQUAL. PROVIDE POWER PACKS AND INTERFACE DEVICES AS REQUIRED FOR A FULLY OPERATIONAL LIGHTING SYSTEM.
 - THE SWITCH FOR THE POLE MOUNTED POOL LIGHTS SHALL BE CONNECTED TO THE CONTACTOR IN PANEL 'LPP'. THE SWITCH FOR THE UNDERWATER POOL LIGHTS SHALL BE CONNECTED TO THE LIGHTING CONTACTOR. THE PANELBOARD AND LIGHTING CONTACTOR ARE LOCATED IN ROOM 124, ELECTRICAL ROOM.



PROJECT NORTH
1/8"=1'-0"

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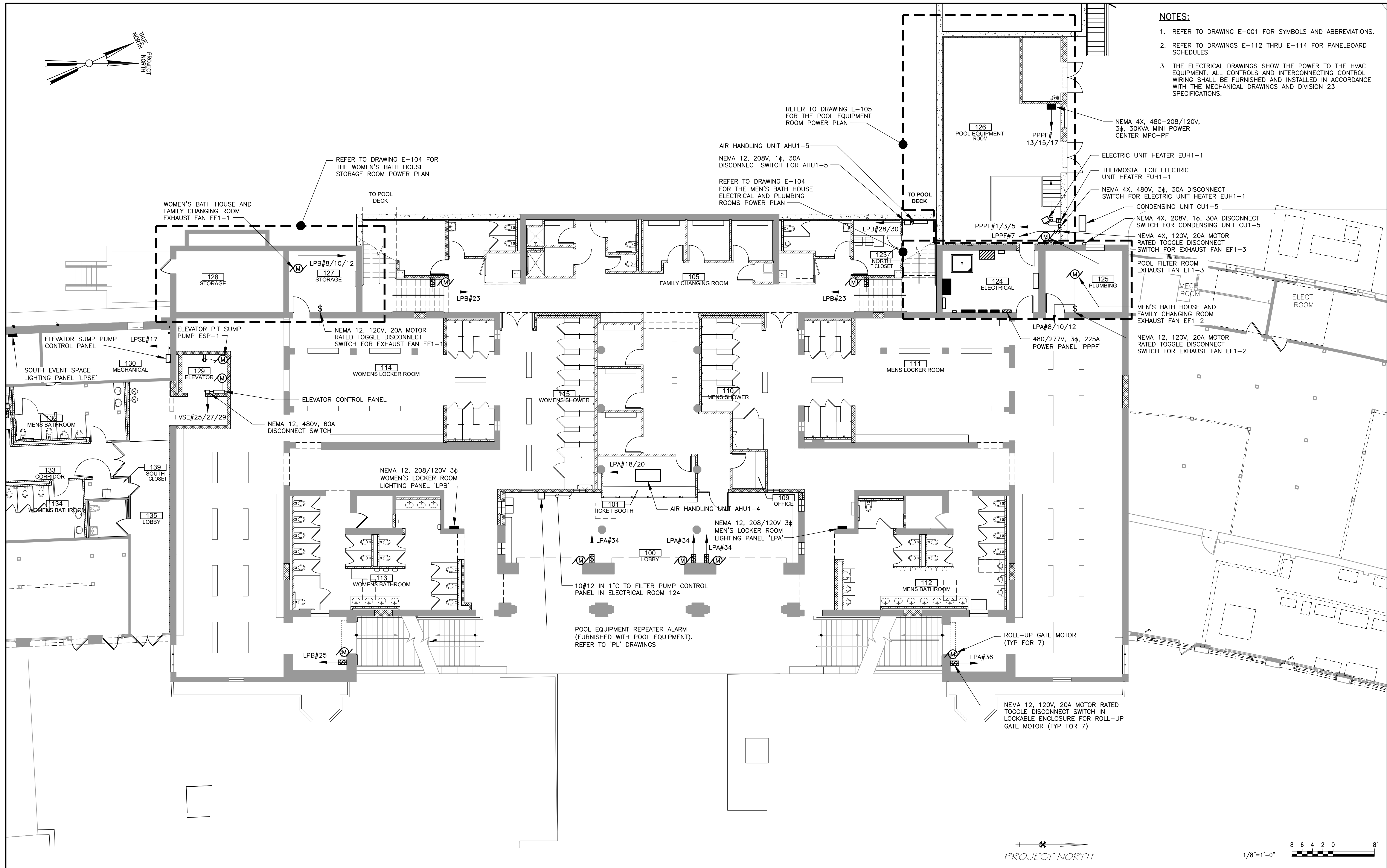
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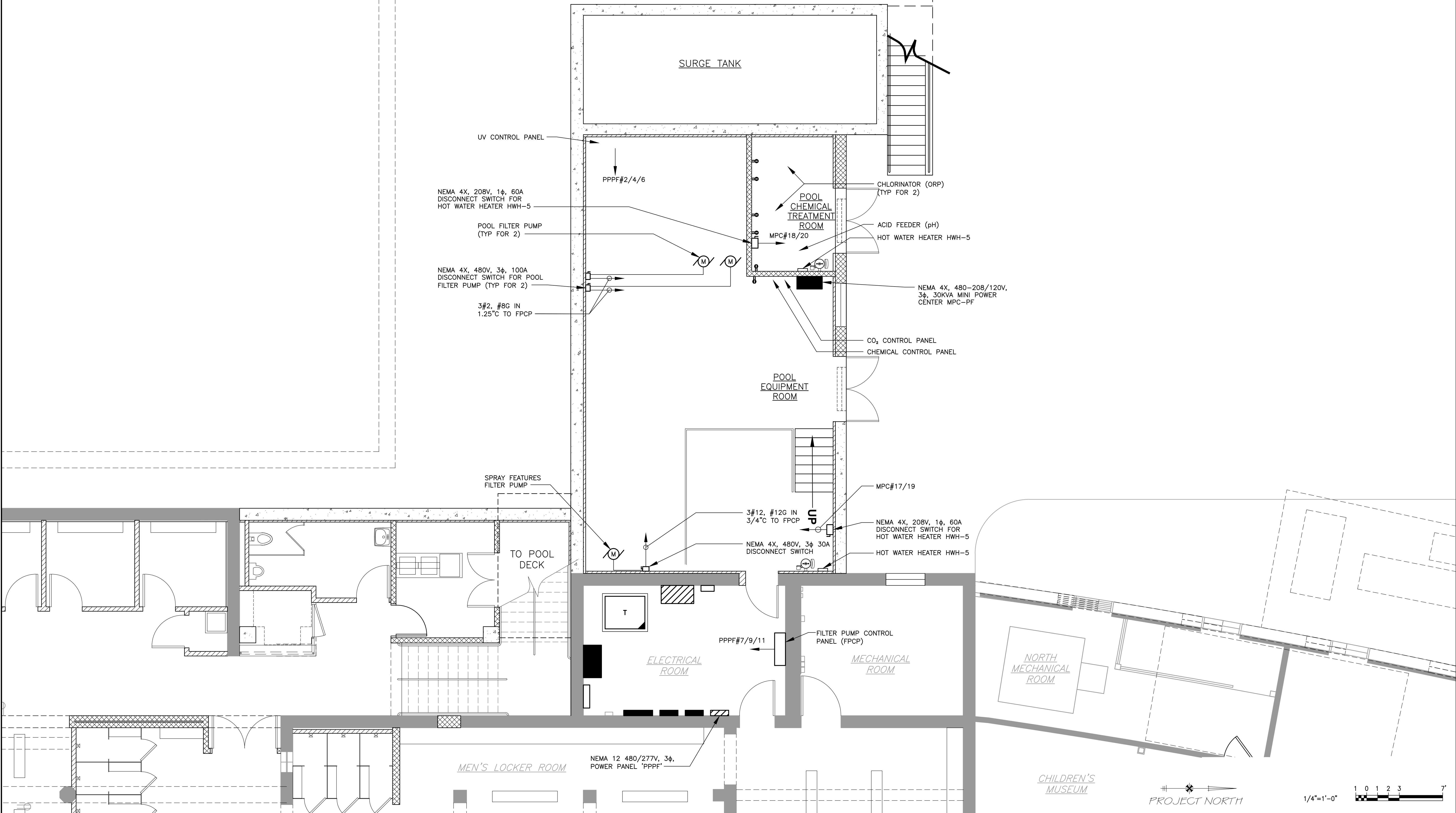
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-101
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 150 OF 201	
BATHHOUSE LIGHTING PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. _____	REV. NO. _____



- NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. REFER TO DRAWING PL-101 FOR DETAILS RELATED TO THE CHEMICAL METERING PUMPS, CHEMICAL CONTROL PANEL AND FILTER PUMP CONTROL PANEL. THE POWER, CONTROL AND INSTRUMENTATION INTERCONNECTIONS ARE SHOWN ON THE 'PL' DRAWINGS.



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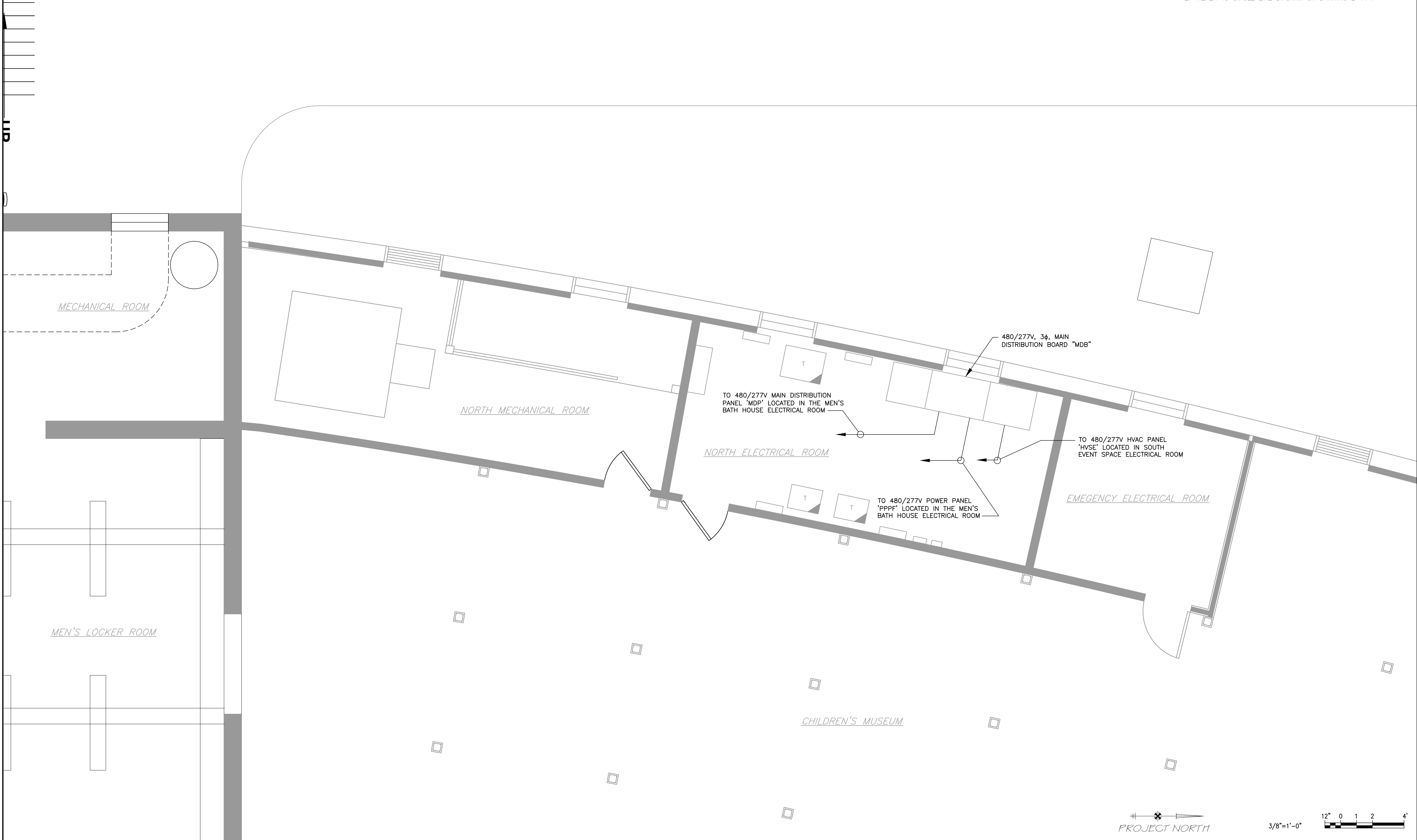
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-105
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 154 OF 201	
POOL EQUIPMENT ROOM POWER PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-511	REV. NO. 0

- NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. REFER TO SINGLE LINE DIAGRAM ON DRAWING E-111.



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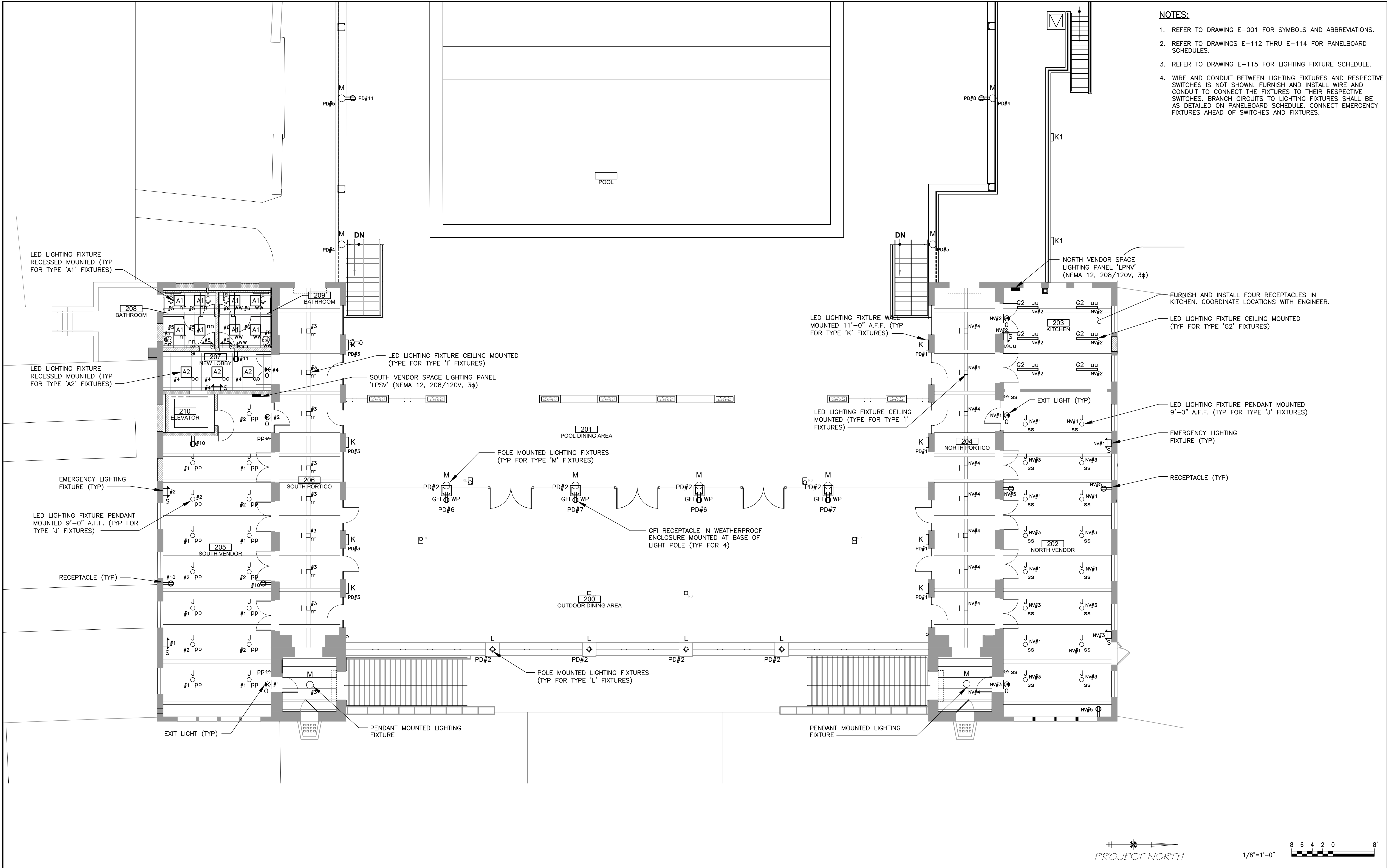
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-106
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 155 OF 201	
CHILDREN'S MUSEUM POWER PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-512	REV. NO. 0

- NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. REFER TO DRAWINGS E-112 THRU E-114 FOR PANELBOARD SCHEDULES.
 3. REFER TO DRAWING E-115 FOR LIGHTING FIXTURE SCHEDULE.
 4. WIRE AND CONDUIT BETWEEN LIGHTING FIXTURES AND RESPECTIVE SWITCHES IS NOT SHOWN. FURNISH AND INSTALL WIRE AND CONDUIT TO CONNECT THE FIXTURES TO THEIR RESPECTIVE SWITCHES. BRANCH CIRCUITS TO LIGHTING FIXTURES SHALL BE AS DETAILED ON PANELBOARD SCHEDULE. CONNECT EMERGENCY FIXTURES AHEAD OF SWITCHES AND FIXTURES.



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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-108
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 157 OF 201	
ENLARGED POOL DECK LIGHTING PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-514	REV. NO. 0

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. THE ELECTRICAL DRAWINGS SHOW THE POWER TO THE HVAC EQUIPMENT. ALL CONTROLS AND INTERCONNECTING CONTROL WIRING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MECHANICAL DRAWINGS AND DIVISION 23 SPECIFICATIONS.
3. FURNISH AND INSTALL A DISCONNECT SWITCH FOR EACH HVAC UNIT (AHU, CU, ETC.).


$$1/8'' = 1' - 0$$


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CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING
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REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

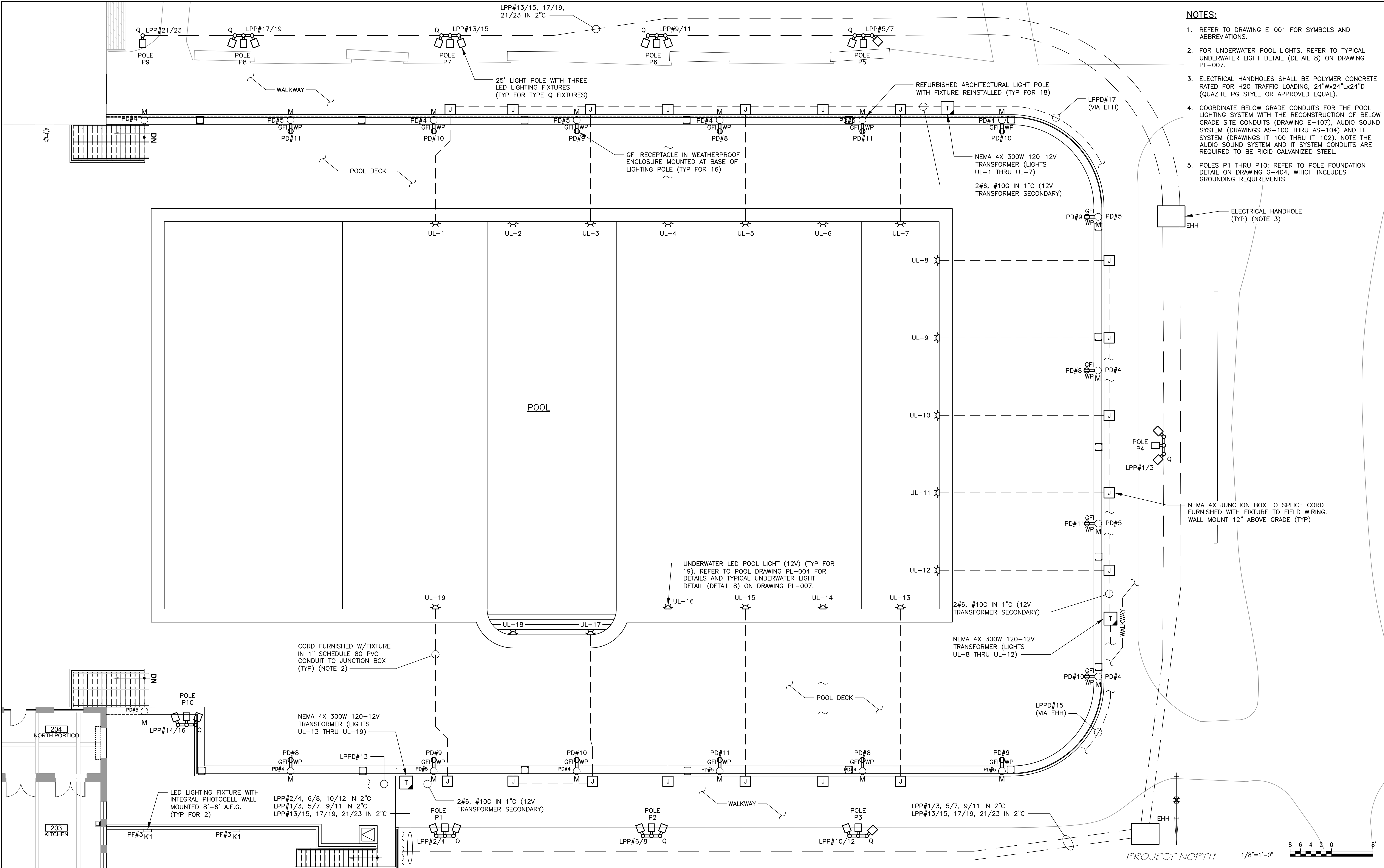
POOL DECK LEVEL POWER PLAN – VENDOR SPACES

CONTRACT NUMBER	SHEET NUMBER
20-504	E-109

SHEET NO. 158 OF 201

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DATE: NOVEMBER 10, 2020	
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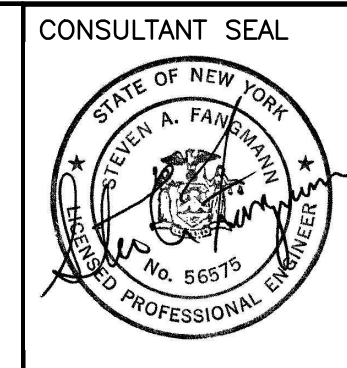
DPW FILE NO.	REV NO.
1-19-E-515	0



- NOTES:**
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. FOR UNDERWATER POOL LIGHTS, REFER TO TYPICAL UNDERWATER LIGHT DETAIL (DETAIL 8) ON DRAWING PL-007.
 3. ELECTRICAL HANDHOLES SHALL BE POLYMER CONCRETE RATED FOR H20 TRAFFIC LOADING, 24"Wx24"Lx24"D (QUAZITE PG STYLE OR APPROVED EQUAL).
 4. COORDINATE BELOW GRADE CONDUITS FOR THE POOL LIGHTING SYSTEM WITH THE RECONSTRUCTION OF BELOW GRADE SITE CONDUITS (DRAWING E-107), AUDIO SOUND SYSTEM (DRAWINGS AS-100 THRU AS-104) AND IT SYSTEM (DRAWINGS IT-100 THRU IT-102). NOTE THE AUDIO SOUND SYSTEM AND IT SYSTEM CONDUITS ARE REQUIRED TO BE RIGID GALVANIZED STEEL.
 5. POLES P1 THRU P10: REFER TO POLE FOUNDATION DETAIL ON DRAWING G-404, WHICH INCLUDES GROUNDING REQUIREMENTS.

PROJECT NORTH 1/8"=1'-0"

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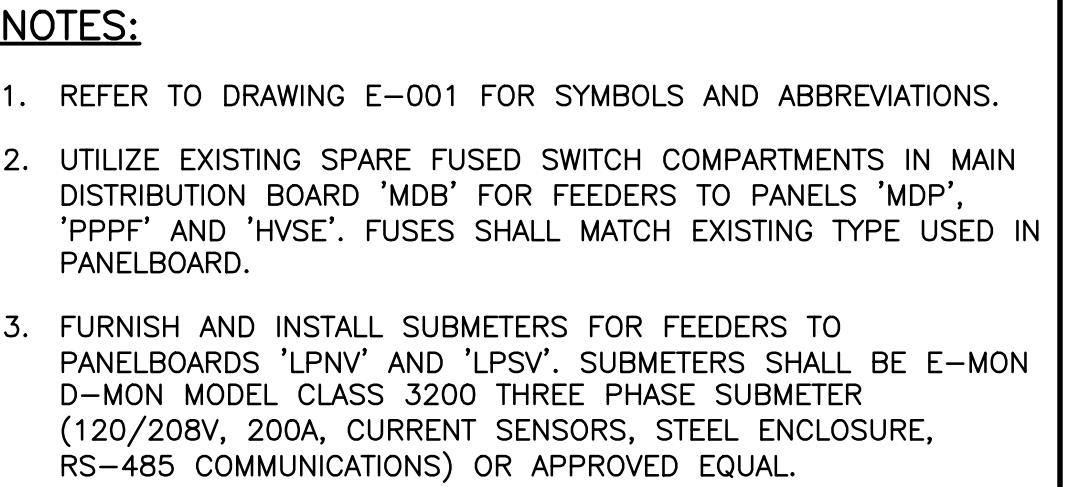
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-110
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 159 OF 201	
POOL LIGHTING PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-516	REV. NO. 0



NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. EXISTING BRANCH CIRCUITS SHALL BE EXTENDED TO CONNECT TO NEW PANELBOARDS. VERIFY LOCATIONS OF EXISTING LOADS AND EXISTING WIRING.

MAIN DISTRIBUTION PANELBOARD 'MDP' (ELEC. ROOM, 124)						
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD		BRANCH CIRCUIT
	POLE	TRIP		H.P.	KVA	
1	3	400	300 KVA TRANSFORMER		300	4-500KCMIL, #3G IN 4"C
3	—	—	—			
5	—	—	—			
7	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
9	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
11	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
13	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
15	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
17	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
19	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
21	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
23	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
25	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
27	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
29	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
31	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
33	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
35	1	20	EXISTING LIGHTING (PANEL #3)			2#10, #10G IN 3/4"C (NOTE 2)
37	1	20	SPARE			
39	1	20	SPARE			
41	1	20	SPARE			
2	3	20	SPARE			
4	—	—	—			
6	—	—	—			
8	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
10	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
12	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
14	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
16	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
18	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
20	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
22	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
24	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
26	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
28	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
30	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
32	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
34	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
36	1	20	PANEL #3 LOAD			2#10, #10G IN 3/4"C (NOTE 2)
38	1	20	SPARE			
40	1	20	SPARE			
42	1	20	SPARE			
MAIN BUSS: 600A MAIN: 600A CB FEEDER: 2 SETS 4-350KCMIL, #1G IN 2-3"C			TYPE: BOLT-ON VOLTS: 480/277V PHASE: 3PH, 4W+GND		MOUNTING: SURFACE AIC(SYM): 65,000 EST. CONN KVA: 350	

DISTRIBUTION PANELBOARD 'FDP-BDP' (ELEC. ROOM, 124)						
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD		BRANCH CIRCUIT
	POLE	TRIP		H.P.	KVA	
1	3	30	BOARDWALK PUMP			3#10, #10G IN 3/4"C (NOTE 2)
3	-	-	-			
5	-	-	-			
7	3	100	BEACH MAIN TICKET BOOTH		11	4#1, #8G IN 1.5"C
9	-	-	-			
11	-	-	-			
13	1	20	SPARE			
15	1	20	SPARE			
17	1	20	SPARE			
19	1	20	SPARE			
21	1	20	SPARE			
23	1	20	SPARE			
25	1	20	SPARE			
27	1	20	SPARE			
29	1	20	SPARE			
31	1	20	SPARE			
33	1	20	SPARE			
35	1	20	SPARE			
37	1	20	SPARE			
39	1	20	SPARE			
41	1	20	SPARE			
2	1	20	MEN'S LOCKER ROOM, ELECT. & MECH RM. LIGHTS			2#10, #10G IN 3/4"C
4	1	20	MEN'S LOCKER ROOM, ELECT. & MECH RM. LIGHTS			2#10, #10G IN 3/4"C
6	1	20	MEN'S LOCKER ROOM, ELECT. & MECH RM. LIGHTS			2#10, #10G IN 3/4"C
8	1	20	SPARE			
10	1	20	SPARE			
12	1	20	SPARE			
14	1	20	SPARE			
16	1	20	SPARE			
18	1	20	SPARE			
20	1	20	SPARE			
22	1	20	SPARE			
24	1	20	SPARE			
26	1	20	SPARE			
28	1	20	SPARE			
30	1	20	SPARE			
32	1	20	SPARE			
34	1	20	SPARE			
36	1	20	SPARE			
38	1	20	SPARE			
40	1	20	SPARE			
42	1	20	SPARE			
MAIN BUSS: 225A			TYPE:	BOLT-ON		MOUNTING: SURFACE
MAIN: 225A CB			VOLTS:	208/120V		AIC(SYM): 42,000
FEEDER: TR-9T#1/3/5			PHASE:	3PH, 4W+GND		EST. CONN KVA: ---

DISTRIBUTION PANELBOARD 'TR-9T' (ELEC. ROOM, 124)							
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD		BRANCH CIRCUIT	
	POLE	TRIP		H.P.	KVA		
1	3	225	PANELBOARD "FDP-BDP"			4-4/0, #6G IN 2.5"C	
3	-	-					
5	-	-					
7	3	100	DECORATIVE LIGHTS			(NOTE 2)	
9	-	-					
11	-	-					
13	3	100	SOUTH VENDOR SPACE PANEL "LPSV"	6		4#1, #8G IN 1.5"C	
15	-	-					
17	-	-					
19	3	60	BUS SHELTER CANOPY LIGHTS			(NOTE 2)	
21	-	-					
23	-	-					
25	1	20	BUS GATE PANEL LOAD			2#10, #10G IN 3/4"C (NOTE 2)	
27	1	20	BUS GATE PANEL LOAD			2#10, #10G IN 3/4"C (NOTE 2)	
29	1	20	BUS GATE PANEL LOAD			2#10, #10G IN 3/4"C (NOTE 2)	
31	1	15	BUS GATE PANEL LOAD			2#10, #10G IN 3/4"C (NOTE 2)	
33	3	125	MEN'S LOCKER ROOM PANEL 'LPA'	25		4#1/0, #6G IN 2"C	
35	-	-					
37	-	-					
39	1	20	SPARE				
41	1	20	SPARE				
43	1	20	SPARE				
45	1	20	SPARE				
47	1	20	SPARE				
49	1	20	SPARE				
51	1	20	SPARE				
53	1	20	SPARE				
2	3	100	POOL DECK PANELBOARD "LPPD"	6		4#1, #8G IN 1.5"C	
4	-	-					
6	-	-					
8	3	150	NORTH VENDOR SPACE PANEL "LPNV"	2		4-2/0, #6G IN 2"C	
10	-	-					
12	-	-					
14	3	100	CHILDRENS MUSEUM CNTRCTR TRAILER			NOTE 2	
16	-	-					
18	-	-					
20	3	100	DECORATIVE LIGHTS			NOTE 2	
22	-	-					
24	-	-					
26	1	20	BUS GATE PANEL LOAD			2#10, #10G IN 3/4"C (NOTE 2)	
28	1	20	BUS GATE PANEL LOAD			2#10, #10G IN 3/4"C (NOTE 2)	
30	1	30	BUS GATE PANEL LOAD			2#10, #10G IN 3/4"C (NOTE 2)	
32	3	150	POOL PANELBOARD "LPP"	26		4-2/0, #6G IN 2"C	
34	-	-					
36	-	-					
38	3	100	WOMEN'S LOCKER ROOM PANEL 'LPB'	16		4#1, #8G IN 1.5"C	
40	-	-					
42	-	-					
44	1	20	SPARE				
46	1	20	SPARE				
48	1	20	SPARE				
50	1	20	SPARE				
52	1	20	SPARE				
54	1	20	SPARE				
MAIN BUSS: 1200A MAIN: 1000A CB FEEDER: 3 SETS 4-500 KCMIL, 3/0G IN 3-4"C						TYPE: BOLT-ON VOLTS: 208/120V PHASE: 3PH, 4W+GND	MOUNTING: SURFACE AIC(SYM): 42,000 EST. CONN KVA: 300

LIGHTING PANELBOARD 'LPA' (MEN'S LOCKER ROOM)					
CKT NO.	DEVICE POLE TRIP	LOAD DESIGNATION	LOAD	BRANCH CIRCUIT	
			H.P. KVA		
1	1 20	MEN'S LOCKER ROOM RECEPTACLE	1.5	2#12, #12G IN 3/4"C	
3	1 20	MEN'S LOCKER ROOM RECEPTACLE	1.5	2#12, #12G IN 3/4"C	
5	1 20	MEN'S LOCKER ROOM LIGHTING	0.6	2#12, #12G IN 3/4"C	
7	1 20	MEN'S LOCKER ROOM LIGHTING	0.3	2#12, #12G IN 3/4"C	
9	1 20	MEN'S LOCKER ROOM LIGHTING	0.6	2#12, #12G IN 3/4"C	
11	1 20	MEN'S LOCKER ROOM LIGHTING	0.5	2#12, #12G IN 3/4"C	
13	1 20	LOBBY & TICKET BOOTH LIGHTING	0.3	2#12, #12G IN 3/4"C	
15	1 20	TICKET BOOTH/OFFICE RECEPTACLES	0.6	2#12, #12G IN 3/4"C	
17	1 20	FIRST AID EXHAUST FAN EFT-1	1/6	2#12, #12G IN 3/4"C	
19	1 20	LIFEGUARD OFF. EXHAUST FAN EFT-2	1/6	2#12, #12G IN 3/4"C	
21	2 20	AHUT-1: FIRST AID ROOM	0.1	2#12, #12G IN 3/4"C	
23	-	-			
25	1 20	TUNNEL & FIRST AID OFFICE LIGHTING	0.8	2#12, #12G IN 3/4"C	
27	1 20	FIRST AID OFFICE RECEPTACLES	0.4	2#12, #12G IN 3/4"C	
29	1 15	HOT WATER HEATER HWH-3	0.1	2#12, #12G IN 3/4"C	
31	1 20	HEAT TRACE: BATHHOUSE	1.2	2#12, #12G IN 3/4"C	
33	2 60	AIR COMPRESSOR: TRENCH DRAIN	5.5	3#6, #10G IN 1"C	
35	-	SUMP PUMP SP-1			
37	1 20	SPARE			
39	1 20	SPARE			
41	1 20	SPARE			
2	1 20	MEN'S PLUMBING ROOM RECEPTACLE	1.5	2#12, #12G IN 3/4"C	
4	1 20	LOBBY RECEPTACLE	1.5	2#12, #12G IN 3/4"C	
6	1 20	MEN'S LOCKER ROOM LIGHTING	0.5	2#12, #12G IN 3/4"C	
8	3 20	EXHAUST FAN EF1-2	1.5	3#12, #12G IN 3/4"C	
10	-	-			
12	-	-			
14	1 20	LOBBY & OFFICE LIGHTING	0.3	2#12, #12G IN 3/4"C	
16	1 20	LOBBY RECEPTACLE	1.5	2#12, #12G IN 3/4"C	
18	2 20	AHU1-4: TICKET BOOTH	0.9	2#12, #12G IN 3/4"C	
20	-	-			
22	2 20	AHUT-2: LIFEGUARD OFFICE	0.1	2#12, #12G IN 3/4"C	
24	-	-			
26	1 20	TUNNEL & LIFEGUARD STATION LTG	0.8	2#12, #12G IN 3/4"C	
28	1 20	LIFEGUARD STATION RECEPTACLES	0.4	2#12, #12G IN 3/4"C	
30	1 20	HOT WATER CIRC. HWC-4 & HWC-5	2@1/2	2#12, #12G IN 3/4"C	
32	1 20	SINK SUMP PUMP SP-1 RECEPTACLE	1/3	2#12, #12G IN 3/4"C	
34	1 20	ROLL-UP GATES: LOBBY	3@1/2	2#12, #12G IN 3/4"C	
36	1 20	ROLL-UP GATE: MEN'S LOCKER RM	1@1/2	2#12, #12G IN 3/4"C	
38	1 20	SPARE			
40	1 20	SPARE			
42	1 20	SPARE			
MAIN BUSS: 200A		TYPE: BOLT-ON	MOUNTING: SURFACE		
MAIN: 125A CB		VOLTS: 208/120V	AC(SYM): 22,000		
FEEDER: TR-9T/33/35/37		PHASE: 3PH, 4W+GND	EST. CONN KVA: 25		

LIGHTING PANELBOARD 'LPNV' (NORTH VENDOR SPACE)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD H.P. KVA	BRANCH CIRCUIT
1	1	20	NORTH VENDOR SPACE LIGHTING	0.2	2#12, #12G IN 3/4"C
3	1	20	NORTH VENDOR SPACE LIGHTING	0.2	2#12, #12G IN 3/4"C
5	1	20	NORTH VENDOR SPACE RECEPTACLES	0.6	2#12, #12G IN 3/4"C
7	1	20	SPARE		
9	1	20	SPARE		
11	1	20	SPARE		
13	1	20	SPARE		
15	1	20	SPARE		
17	1	20	SPARE		
19	—	—	SPACE		
21	—	—	SPACE		
23	—	—	SPACE		
25	—	—	SPACE		
27	—	—	SPACE		
29	—	—	SPACE		
31					
33					
35					
37					
39					
41					
2	1	20	KITCHEN LIGHTING	0.3	2#12, #12G IN 3/4"C
4	1	20	PORTICO LIGHTING	0.3	2#12, #12G IN 3/4"C
6	1	20	SPARE		
8	1	20	SPARE		
10	1	20	SPARE		
12	1	20	SPARE		
14	1	20	SPARE		
16	1	20	SPARE		
18	1	20	SPARE		
20	—	—	SPACE		
22	—	—	SPACE		
24	—	—	SPACE		
26	—	—	SPACE		
28	—	—	SPACE		
30	—	—	SPACE		
32					
34					
36					
38					
40					
42					
MAIN BUSS: 225A TYPE: BOLT-ON MOUNTING: SURFACE MAIN: 150A CB VOLTS: 208/120V A/C(SYM): 22,000 FEEDER: TR-9T-8/10/12 PHASE: 3PH, 4W+GND EST. CONN KVA: 2					

NOTE: CIRCUIT BREAKERS AND BRANCH CIRCUITS TO VENDOR FURNISHED EQUIPMENT BY OTHERS

LIGHTING PANELBOARD 'LPPD' (POOL DECK)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD H.P. KVA	BRANCH CIRCUIT
1	1	20	DINING AREA WALL PACK LTS (NORTH)	0.4	2#10, #10G IN 3/4"C
3	1	20	DINING AREA POLE & PARAPET LTS	0.3	2#10, #10G IN 3/4"C
5	1	20	POOL DECK POLE LIGHTS	0.3	2#10, #10G IN 3/4"C
7	1	20	DINING AREA RECEPTACLES	0.4	2#10, #10G IN 3/4"C
9	1	20	POOL DECK RECEPTACLES	0.8	2#10, #10G IN 3/4"C
11	1	20	POOL DECK RECEPTACLES	0.8	2#10, #10G IN 3/4"C
13	1	20	UNDERWATER POOL LIGHTS	0.3	2#10, #10G
15	1	20	UNDERWATER POOL LIGHTS	0.3	2#10, #10G
17	1	20	UNDERWATER POOL LIGHTS	0.3	2#10, #10G
19	1	20	CONTACTOR LC-UNDERWATER LIGHTS	0.1	2#12, #12G IN 3/4"C
21	1	20	SPARE		
23	1	20	SPARE		
25	1	20	SPARE		
27	1	20	SPARE		
29	1	20	SPARE		
31					
33					
35					
37					
39					
41					
2	1	20	DINING AREA WALL PACK LTS (SOUTH)	0.4	2#10, #10G IN 3/4"C
4	1	20	POOL DECK POLE LIGHTS	0.3	2#10, #10G IN 3/4"C
6	1	20	DINING AREA RECEPTACLES	0.4	2#10, #10G IN 3/4"C
8	1	20	POOL DECK RECEPTACLES	0.8	2#10, #10G IN 3/4"C
10	1	20	POOL DECK RECEPTACLES	0.8	2#10, #10G IN 3/4"C
12	1	20	SPARE		
14	1	20	SPARE		
16	1	20	SPARE		
18	1	20	SPARE		
20	1	20	SPARE		
22	—	—	SPACE		
24	—	—	SPACE		
26	—	—	SPACE		
28	—	—	SPACE		
30	—	—	SPACE		
32					
34					
36					
38					
40					
42					
MAIN BUSS: 100A TYPE: BOLT-ON MOUNTING: SURFACE MAIN: 100A CB VOLTS: 208/120V A/C(SYM): 22,000 FEEDER: TR-9T-2/4/6 PHASE: 3PH, 4W+GND EST. CONN KVA: 7					

COMMON 1"C,
VIA LIGHTING
CONTACTOR

POWER PANELBOARD 'PPPF' (ELEC. ROOM, 124)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD H.P. KVA	BRANCH CIRCUIT
1	3	20	ELECTRIC UNIT HEATER EUH1-1	7.5	3#12, #12G IN 3/4"C
3	—	—			
5	—	—			
7	3	150	FILTER PUMP CONTROL PANEL	45	3-1/0, #6G IN 2"C
9	—	—			
11	—	—			
13	3	50	MINI POWER CENTER MPC-PF	30	3#6, #10G IN 3/4"C
15	—	—			
17	—	—			
19					
21					
23					
25					
27					
29					
31					
33					
35					
37					
39					
41					
2	3	20	U/V CONTROL PANEL	5.0	3#12, #12G IN 3/4"C
4	—	—			
6	—	—			
8	3	20	SPARE		
10	—	—			
12	—	—			
14	3	20	SPARE		
16	—	—			
18	—	—			
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
MAIN BUSS: 225A TYPE: BOLT-ON MOUNTING: SURFACE MAIN: 200A CB VOLTS: 480V A/C(SYM): 65,000 FEEDER: 3-4/0, #6G IN 2.5"C PHASE: 3PH, 4W+GND EST. CONN KVA: 65					

LIGHTING PANELBOARD 'LPSV' (SOUTH VENDOR SPACE)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD H.P. KVA	BRANCH CIRCUIT
1	1	20	SOUTH VENDOR SPACE LIGHTING	0.2	2#12, #12G IN 3/4"C
3	1	20	PORTICO LIGHTING	0.3	2#12, #12G IN 3/4"C
5	1	20	BATHROOM LIGHTING	0.1	2#12, #12G IN 3/4"C
7	2	20	AIR HANDLING UNIT AHU2-3	1.0	2#12, #12G IN 3/4"C
9	—	—			
11	1	20	HALLWAY RECEPTACLE	1.5	2#12, #12G IN 3/4"C
13	1	20	SPARE		
15	1	20	SPARE		
17	1	20	SPARE		
19	1	20	SPARE		
21	—	—	SPACE		
23	—	—	SPACE		
25	—	—	SPACE		
27	—	—	SPACE		
29	—	—	SPACE		
31					
33					
35					
37					
39					
41					
2	1	20	SOUTH VENDOR SPACE LIGHTING	0.2	2#12, #12G IN 3/4"C
4	1	20	LOBBY LIGHTING	0.1	2#12, #12G IN 3/4"C
6	1	20	BATHROOM LIGHTING	0.1	2#12, #12G IN 3/4"C
8	1	20	HEAT RECOVERY VENTILATOR HRV2-1	0.75	2#12, #12G IN 3/4"C
10	1	20	SOUTH VENDOR SPACE RECEPTACLES	0.6	2#12, #12G IN 3/4"C
12	1	20	SPARE		
14	1	20	SPARE		
16	1	20	SPARE		
18	1	20	SPARE		
20	1	20	SPARE		
22	—	—	SPACE		
24	—	—	SPACE		
26	—	—	SPACE		
28	—	—	SPACE		
30	—	—	SPACE		
32					
34					
36					
38					
40					
42					
MAIN BUSS: 100A TYPE: BOLT-ON MOUNTING: SURFACE MAIN: 100A CB VOLTS: 208/120V A/C(SYM): 22,000 FEEDER: TR-9T-13/15/17 PHASE: 3PH, 4W+GND EST. CONN KVA: 6					

NOTE: BRANCH CIRCUITS TO VENDOR FURNISHED EQUIPMENT BY OTHERS

LIGHTING PANELBOARD 'LPP' (ELEC. ROOM, 124)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD H.P. KVA	BRANCH CIRCUIT
1	2	20	POOL FLOOD LIGHTS -- POLE P4	2.8	2#6, #10G
3	—	—			
5	2	20	POOL FLOOD LIGHTS -- POLE P5	2.8	2#6, #10G
7	—	—			
9	2	20	POOL FLOOD LIGHTS -- POLE P6	2.8	2#6, #10G
11	—	—			
13	2	20	POOL FLOOD LIGHTS -- POLE P7	2.8	2#6, #10G
15	—	—			
17	2	20	POOL FLOOD LIGHTS -- POLE P8	2.8	2#6, #10G
19	—	—			
21	2	20	POOL FLOOD LIGHTS -- POLE P9	0.9	2#6, #10G
23	—	—			
25	1	20	SPARE		
27	1	20	SPARE		
29	1	20	SPARE		
31					
33					
35					
37					
39					
41					
2	2	20	POOL FLOOD LIGHTS -- POLE P1	2.8	2#8, #10G
4	—	—			
6	2	20	POOL FLOOD LIGHTS -- POLE P2	2.8	2#8, #10G
8	—	—			
10	2	20	POOL FLOOD LIGHTS -- POLE P3	2.8	2#8, #10G
12	—	—			
14	2	20	POOL FLOOD LIGHTS -- POLE P10	2.8	2#8, #10G IN 1"C
16	—	—			
18	1	20	SPARE		
20	1	20	SPARE		
22	1	20	SPARE		
24	1	20	SPARE		
26	1	20	SPARE		
28	1	20	SPARE		
30	1	20	SPARE		
32					
34					
36					
38					
40					
42					
MAIN BUSS: 225A TYPE: BOLT-ON MOUNTING: SURFACE MAIN: 150A CB VOLTS: 208/120V A/C(SYM): 22,000 FEEDER: TR-9T-32/34/36 PHASE: 3PH, 4W+GND EST. CONN KVA: 26					

COMMON 2"C

COMMON 2"C

COMMON 2"C

MINI POWER CENTER PANEL MPC-PF (POOL FILT. RM.)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD H.P. KVA	BRANCH CIRCUIT
1	1	20	POOL FILTER ROOM LIGHTING	0.4	2#12, #12G IN 3/4"C
3	1	20	EXTERIOR LIGHTING	0.1	2#12, #12G IN 3/4"C
5	1	20	CHEM TREATMENT RM REC	0.2	2#12, #12G IN 3/4"C
7	1	20	EXHAUST FAN EF1-3	0.25	2#12, #12G IN 3/4"C
9	1	20	SPARE		
11	1	20	SPARE		
13	1	20	SPARE		
15	1	20	SPARE		
17	2	60	HOT WATER HEATER HWH-5	8.32	2#4, #10G IN 3/4"C
19	—	—	(POOL FILTER ROOM)		
21	2	60	SPARE		
23	—	—			
2	1	20	CHEM TREATMENT RM LTS	0.1	2#12, #12G IN 3/4"C
4	1	20	POOL FILTER ROOM REC	0.2	2#12, #12G IN 3/4"C
6	1	40	TABLET CHLORINATOR (ORP)	1.5	2#8, #10G IN 3/4"C
8	1	40	TABLET CHLORINATOR (ORP)	1.5	2#8, #10G IN 3/4"C
10	1	40	ACID FEEDER (PH)	1.5	2#8, #10G IN 3/4"C
12	1	20	SPARE		
14	1	20	SPARE		
16	1	20	SPARE		
18	2	60	HOT WATER HEATER HWH-5	8.32	2#4, #10G IN 3/4"C
20	—	—	(CHEMICAL TREATMENT RM)		
22	2	60	SPARE		
24	—	—			
MAIN BUSS: 100A TYPE: BOLT-ON MOUNTING: SURFACE PRIM. MAIN: 90A CB PRIM VOLTS: 480V XMFR: 30KVA SEC. MAIN: 100A CB SEC. VOLTS: 208/120V A/C(SYM): 18,000 FEEDER: PPPF#13/15/17 PANEL PHASE: 3PH, 3W+GND EST. CON. KVA: 22.79					

NOTES:

- REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
- MAIN CONTACTOR IN PANEL 'LPP' SHALL BE MECHANICALLY HELD WITH FUSED 120V COIL AND SHALL BE CONTROLLED BY REMOTE ON/OFF SWITCH.

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.

HVAC PANELBOARD 'HVSE' (SOUTH EVENT SPACE, RM 131)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD	BRANCH CIRCUIT
	POLE	TRIP		H.P. KVA	
1	3	30	CONDENSER UNIT CU2-1	12.0	3#10, #10G IN 3/4"C
3	-	-			
5	-	-			
7	3	15	AIR HANDLING UNIT AHU2-1	5.1	3#12, #12G IN 3/4"C
9	-	-			
11	-	-			
13	3	40	CONDENSER UNIT CU-1	19.6	3#8, #10G IN 3/4"C
15	-	-			
17	-	-			
19	3	20	CONDENSER UNIT CU-2, COMP NO. 1	9.5	3#12, #12G IN 3/4"C
21	-	-			
23	-	-			
25	3	60	ELEVATOR	20	3#4, #8G IN 1.25"C
27	-	-			
29	-	-			
31	3	20	SPARE		
33	-	-			
35	-	-			
37	3	40	SPARE		
39	-	-			
41	-	-			
2	3	30	CONDENSER UNIT CU2-2	12.0	3#10, #10G IN 3/4"C
4	-	-			
6	-	-			
8	3	15	AIR HANDLING UNIT AHU2-2	5.1	3#12, #12G IN 3/4"C
10	-	-			
12	-	-			
14	3	20	CONDENSER UNIT CU-2, COMP NO. 2	9.5	3#12, #12G IN 3/4"C
16	-	-			
18	-	-			
20	3	70	XFMR-PANEL 'LPSE'	45	3#4, #8G IN 1.25"C
22	-	-			
24	-	-			
26	3	15	SPARE		
28	-	-			
30	-	-			
32	3	30	SPARE		
34	-	-			
36	-	-			
38	3	70	SPARE		
40	-	-			
42	-	-			
MAIN BUSS: 400A TYPE: BOLT-ON MOUNTING: SURFACE					
MAIN: 250A CB VOLTS: 480/277V AIC(SYM): 65,000					
FEEDER: 4-250KCMIL, #4G IN 2.5"C PHASE: 3PH, 4W+GND EST. CONN KVA: 138					

LIGHTING PANELBOARD 'LPSE' (SOUTH EVENT SPACE)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD	BRANCH CIRCUIT
	POLE	TRIP		H.P. KVA	
1	1	20	SO. E.S. BATHROOMS & UTILITY RM	0.2	2#12, #12G IN 3/4"C
3	1	20	SO. E.S. CORRIDOR	0.2	2#12, #12G IN 3/4"C
5	2	30	CONDENSER UNIT CU3-1	3.3	2#10, #10G IN 3/4"C
7	-	-			
9	3	60	PANELBOARD 'ITN'	6.0	4#4, #10G IN 1.25"C
11	-	-			
13	-	-			
15	1	20	BTU SUBMETERS	0.3	2#12, #12G IN 3/4"C
17	1	30	ELEVATOR SUMP PUMP CONTROL PNL	1.0	2#10, #10G IN 3/4"C
19	1	20	SPARE		
21	2	15	FAN COIL UNITS FCU-7, FCU-8	2.1	2#12, #12G IN 3/4"C
23	-	-			
25	2	15	SPARE		
27	-	-			
29	2	15	ENERGY RECOVERY VENTILATOR ERV-1	1.2	2#12, #12G IN 3/4"C
31	-	-			
33	2	15	INDOOR UNITS IU-1, IU-2	0.09	2#12, #12G IN 3/4"C
35	-	-			
37	2	15	SPARE		
39	-	-			
41	1	20	UNIT HEATER UH-4	1/12	2#12, #12G IN 3/4"C
43	1	20	SPARE		
45	2	15	AHU1-4 EXPANSION CONTROLLER	0.01	2#12, #12G IN 3/4"C
47	-	-			
49	3	60	PANELBOARD 'ITS'	3.0	4#4, #10G IN 1.25"C
51	-	-			
53	-	-			
2	1	20	SO. E.S. BATHROOMS & STORAGE RM	0.2	2#12, #12G IN 3/4"C
4	1	20	SO. E.S. CORRIDOR	0.2	2#12, #12G IN 3/4"C
6	2	30	HOT WATER HEATER HWH-1	5.0	2#10, #10G IN 3/4"C
8	-	-			
10	1	20	HOT WATER CIRCULATOR HWC-1	1/40	2#12, #12G IN 3/4"C
12	1	20	SO. E.S. RECEPTACLES	1.5	2#12, #12G IN 3/4"C
14	1	20	SO. E.S. RECEPTACLES	1.5	2#12, #12G IN 3/4"C
16	1	20	SPARE		
18	1	20	SPARE		
20	1	20	SPARE		
22	2	15	FAN COIL UNITS FCU-9, FCU-10	1.4	2#12, #12G IN 3/4"C
24	-	-			
26	2	15	SPARE		
28	-	-			
30	2	15	EXHAUST FAN TEF-1	0.1	2#12, #12G IN 3/4"C
32	-	-			
34	2	15	INDOOR UNITS IU-3, IU-4, IU-5	0.14	2#12, #12G IN 3/4"C
36	-	-			
38	2	15	SPARE		
40	-	-			
42	2	15	SPARE		
44	-	-			
46	2	15	AHU2-3 EXPANSION CONTROLLER	0.01	2#12, #12G IN 3/4"C
48	-	-			
50	2	15	SPARE		
52	-	-			
54	1	20	SPARE		
MAIN BUSS: 200A TYPE: BOLT-ON MOUNTING: SURFACE					
MAIN: 150A CB VOLTS: 208/120V AIC(SYM): 10,000					
FEEDER: 4#1/0, #6G IN 2"C PHASE: 3PH, 4W+GND EST. CONN KVA: 26					

* PANELBOARD IS SHOWN AS 54 CIRCUIT. TWO SEPARATE PANELBOARDS WITH SUBFEED IS ACCEPTABLE.

IT PANELBOARD 'ITS' (SOUTH IT CLOSET)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD	BRANCH CIRCUIT
	POLE	TRIP		H.P. KVA	
1	1	20	QUADPLEX RECEPTACLE, IT EQUIPMENT	0.4	2#12, #12G IN 3/4"C
3	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT	1.0	2#12, #12G IN 3/4"C
5	1	20	SPARE		
7	1	20	SPARE		
9	1	20	SPARE		
11	1	20	SPARE		
13	-	-	SPACE		
15	-	-	SPACE		
17	-	-	SPACE		
19					
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41					
2	1	20	QUADPLEX RECEPTACLE, IT EQUIPMENT	0.4	2#12, #12G IN 3/4"C
4	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT	1.0	2#12, #12G IN 3/4"C
6	1	20	SPARE		
8	1	20	SPARE		
10	1	20	SPARE		
12	1	20	SPARE		
14	-	-	SPACE		
16	-	-	SPACE		
18	-	-	SPACE		
20					
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38					
40					
42					
MAIN BUSS: 100A TYPE: BOLT-ON MOUNTING: SURFACE					
MAIN: 60A CB VOLTS: 208/120V AIC(SYM): 10,000					
FEEDER: LPSE#49/51/53 PHASE: 3PH, 4W+GND EST. CONN KVA: 3.0					

IT PANELBOARD 'ITN' (NORTH IT CLOSET)					
CKT NO.	DEVICE		LOAD DESIGNATION	LOAD	BRANCH CIRCUIT
	POLE	TRIP		H.P. KVA	
1	1	20	QUADPLEX RECEPTACLE, IT EQUIPMENT	0.4	2#12, #12G IN 3/4"C
3	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT	0.2	2#12, #12G IN 3/4"C
5	1	20	DUPLEX REC, AUDIO SOUND SYSTEM	1.0	2#12, #12G IN 3/4"C
7	1	20	DUPLEX REC, AUDIO SOUND SYSTEM	1.0	2#12, #12G IN 3/4"C
9	1	20	REMOTE AUDIO CONTROL STATION	0.3	2#12, #12G IN 3/4"C
11	1	20	SPARE		
13	-	-	SPACE		
15	-	-	SPACE		
17	-	-	SPACE		
19					
21					
23					
25					
27					
29					
31					
33					
35					
37					
39					
41					
2	1	20	QUADPLEX RECEPTACLE	0.4	2#12, #12G IN 3/4"C
4	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT	0.2	2#12, #12G IN 3/4"C
6	1	20	DUPLEX REC, AUDIO SOUND SYSTEM	1.0	2#12, #12G IN 3/4"C
8	1	20	DUPLEX REC, AUDIO SOUND SYSTEM	1.0	2#12, #12G IN 3/4"C
10	1	20	SPARE		
12	1	20	SPARE		
14	-	-	SPACE		
16	-	-	SPACE		
18	-	-	SPACE		
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
MAIN BUSS: 100A TYPE: BOLT-ON MOUNTING: SURFACE					
MAIN: 60A CB VOLTS: 208/120V AIC(SYM): 10,000					
FEEDER: LPSE#9/11/13 PHASE: 3PH, 4W+GND EST. CONN KVA: 6.0					

CONSULTANT SEAL



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERINGREHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

PANELBOARD SCHEDULES III

CONTRACT

NUMBER

20-504

SHEET

NUMBER

E-114

SHEET NO. 163 OF 201

SCALE: AS NOTED

DATE: NOVEMBER 10, 2020

DPW FILE NO.

1-19-E-520

REV.

NO.

0

NOTES:



1. REFER TO DRAWING E--001 FOR SYMBOLS AND ABBREVIATIONS.

Type	General Description	Lamps	Mfgr. & Cat. No.
A1	Recessed mounted 2'x2' LED fixture, cold-rolled steel housing, high efficiency, dimming driver, 120/277V, DLC Listed.	LED (4000K, 2044 lumens at 16 Watts)	Eaton Metalux 22CZ2-20HE-S-UNV-L840-CD1-U, or approved equal.
A2	Recessed mounted 2'x2' LED fixture, cold-rolled steel housing, high efficiency, dimming driver, 120/277V, DLC Listed.	LED (4000K, 2416 lumens at 19.2 Watts)	Eaton Metalux 22CZ2-24HE-S-UNV-L840-CD1-U, or approved equal.
A3	Recessed mounted 2'x2' LED fixture, cold-rolled steel housing, high efficiency, dimming driver, 120/277V, DLC Listed.	LED (4000K, 2942 lumens at 22.2 Watts)	Eaton Metalux 22CZ2-29HE-S-UNV-L840-CD1-U, or approved equal.
A4	Recessed mounted 2'x2' LED fixture, cold-rolled steel housing, high efficiency, dimming driver, 120/277V, DLC Listed.	LED (4000K, 3930 lumens at 30.3 Watts)	Eaton Metalux 22CZ2-39HE-S-UNV-L840-CD1-U, or approved equal.
B	High efficient LED high bay fixture with acrylic drop lens, aluminum housing, weather-tight, 120-277V, DLC Listed.	LED (4000K, 9000 lumens at 63 Watts)	Lithonia Lighting JCBL-9000LM-ACFR-ACRCON-MVOLT-GZ10-40K-80CRI-PM-**, or approved equal.
B1	Pendant fixture for Lobby and Portico Tower	LED	Maxim Lighting 25109FTPN Hi polished nickel pendant light fixture, or approved equal.
C	Locker room bathroom wall sconce. Fitter sconce, E26 socket, polished nickel finish, UL Listed Damp.	60 Watts	Rejuvenation A9901, or approved equal.
C1	South Event Space toilet fixture above sink	LED	Pacific City Single Sconce by Rejuvenation model Mission Wall Sconce #A1476, or approved equal.
C2	South Event Space Corridor and Bathhouse Lobby wall mounted wall sconce, 120V	LED (3000K, 25 Watts)	Skyscraper outdoor LED wall sconce by Modern Forms, MFMP122290, 18" option, or approved equal.
C3	South Event Space Corridor and Bathhouse Lobby wall mounted wall sconce, 120V	LED (3000K, 25 Watts)	Skyscraper outdoor LED wall sconce by Modern Forms, MFMP122290, 18" option, or approved equal.
C4	Wall mounted LED fixture, die cast aluminum, wet location, high efficiency, 120-277V, DLC Listed.	LED (4000K, 10,500 lumens at 78 Watts)	LSI Industries TLWP-LED-11L-UNV-DIM-40-**, or approved equal.
D	Semi-flush mount, bulb 3, faux alabaster glass, satin nickel finish.	60 Watts	Millennium 5035SN, or approved equal.
E	Recessed square high hat downlights, galvanized steel plaster frame, standard dimming driver, 120-277V.	LED (4000K, 1000 lumens) at 11 Watts	Eaton LDSQ4BCP-10-D010-90-40-SQ-0-H, or approved equal.
E1	Square surface mounted downlight, polycarbonate gasketed frame, integral 120V flicker-free dimming driver, UL and Wet Location Listed.	LED (3500K, 740 lumens at 10 Watts)	Eaton SMD6S-6-935-WH-DM, or approved equal.

** Fixture Color By Owner

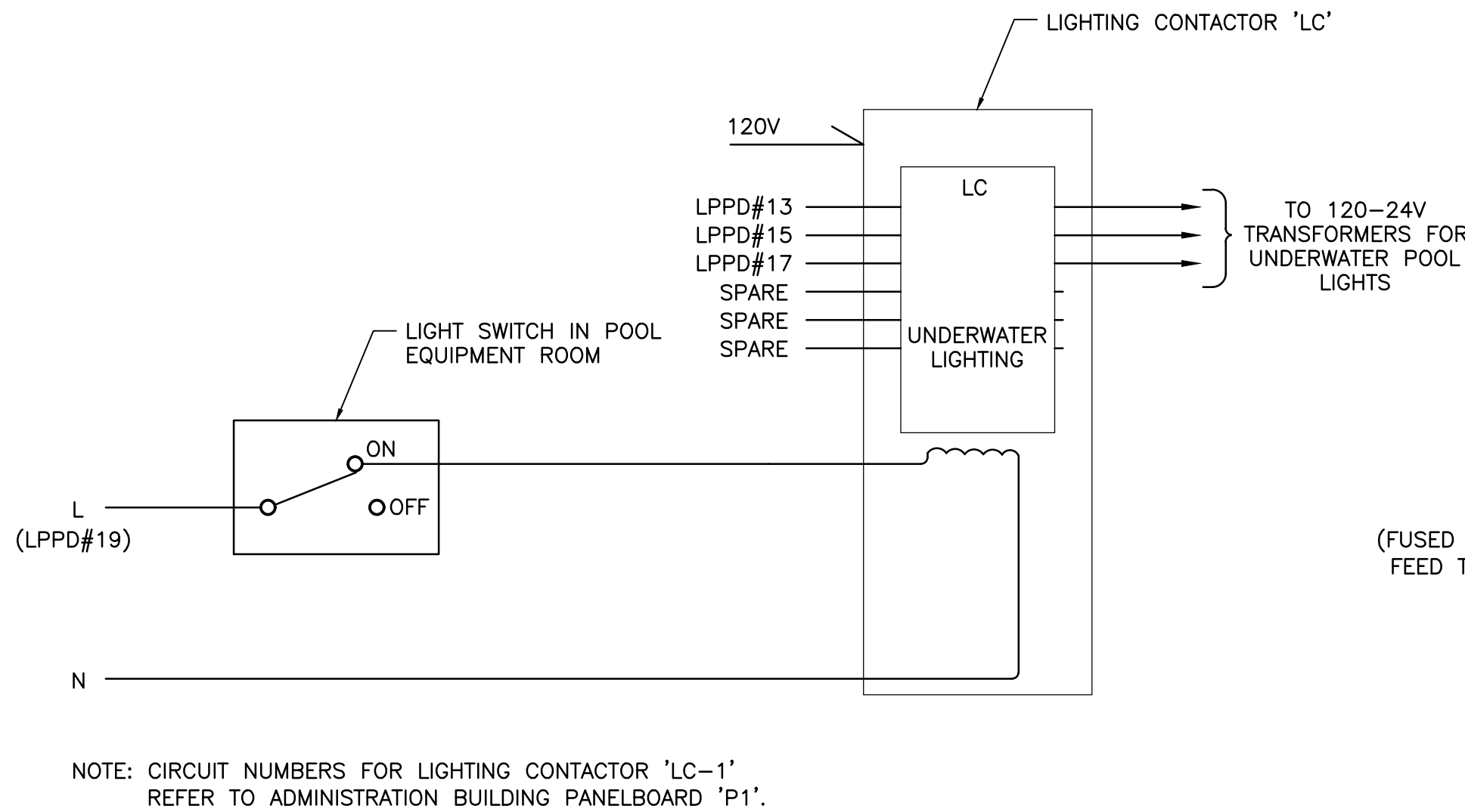
Type	General Description	Lamps	Mfgr. & Cat. No.
F	Enclosed and gasketed LED fixture, fiberglass, NEMA 4X rated, high efficiency, 120-277V.	LED (4000K, 10,000 lumens at 62 Watts)	Lithonia Lighting FEM-L48-10000LM-IMAFL-WD-MVOLT-40K-80CRI-STSL, or approved equal.
G1	Enclosed and gasketed LED fixture, fiberglass, NEMA 4X rated, high efficiency, 120-277V.	LED (4000K, 6000 lumens at 38 Watts)	Lithonia Lighting FEM-L48-6000LM-IMAFL-WD-MVOLT-40K-80CRI-STSL, or approved equal.
G2	Enclosed and gasketed LED fixture, fiberglass, NEMA 4X rated, high efficiency, 120-277V.	LED (4000K, 8000 lumens at 50 Watts)	Lithonia Lighting FEM-L48-8000LM-IMAFL-WD-MVOLT-40K-80CRI-STSL, or approved equal.
G3	Enclosed and gasketed LED fixture, fiberglass, NEMA 4X rated, high efficiency, 120-277V.	LED (4000K, 10,000 lumens at 62 Watts)	Lithonia Lighting FEM-L48-10000LM-IMAFL-WD-MVOLT-40K-80CRI-STSL, or approved equal.
H	4'x4" direct light cove, aluminum alloy 6063 frame, baked polyester finish.	24 Watts (TBD)	Armstrong Axiom AXDLC44, or approved equal.
I	Surface mounted fixture at Porticos, 120V	LED (4000K, 40.5 Watts)	Rab Vanled 40N, Bronze, or approved equal.
J	Pendant fixture for South Vendor Space	LED	Angled white glass vintage industrial pendant by Olde Brick Lighting model School House Glass Globe, or approved equal.
K	Wall mounted LED fixture, die cast aluminum, wet location, high efficiency, 120-277V, DLC Listed.	LED (4000K, 10,500 lumens at 78 Watts)	LSI Industries TLWP-LED-11L-UNV-DIM-40-**, or approved equal.
K1	Small surface mounted utility fixture flood pack	LED (23 Watts)	Global Industrial 500908, or approved equal.
L	Parapet wall post, cast aluminum finial and roof, UL Listed.	LED (3000K, 3300 lumens at 32 Watts)	Crenshaw Lighting 21354-PEC1, or approved equal.
M	Pool perimeter fence post, high outdoor hanging lantern.	LED (3000K, 3300 lumens at 32 Watts)	Crenshaw Lighting 21354-PEC, or approved equal.
O	LED Exit Sign, emergency battery pack, damp location, 120V.	LED	Big Beam EXKL-2-R-W-U, or approved equal.
Q	High output LED flood fixture, cast aluminum, weather-tight, sign optic distribution, corrosion resistant, 1000mA driver, 120-277V, DLC Listed. Pole: 25 foot, round tapered steel, 100 MPH wind load rating	LED (4000K, 25722 lumens at 831 Watts)	Cree Lighting FLD-EHO-SN-HV-24-E-UL-XX-1000-40K Pole: Lithonia RTS257-0F**, or approved equal
R	High output LED canopy fixture, cast aluminum, weather-tight, Type 5M distribution, corrosion resistant, 350mA driver, 120-277V, DLC Listed.	100 LEDs (4000K, 12,975 lumens at 110 Watts)	Cree Lighting CAN-EDG-5M-DM-10-E-UL-**-350-40K, or approved equal.
S	Emergency LED light unit with battery pack, NEMA 12/4X enclosure, 120V.	(2) 5 Watts	Big Beam LS2SE6S8, or approved equal.

** Fixture Color By Owner

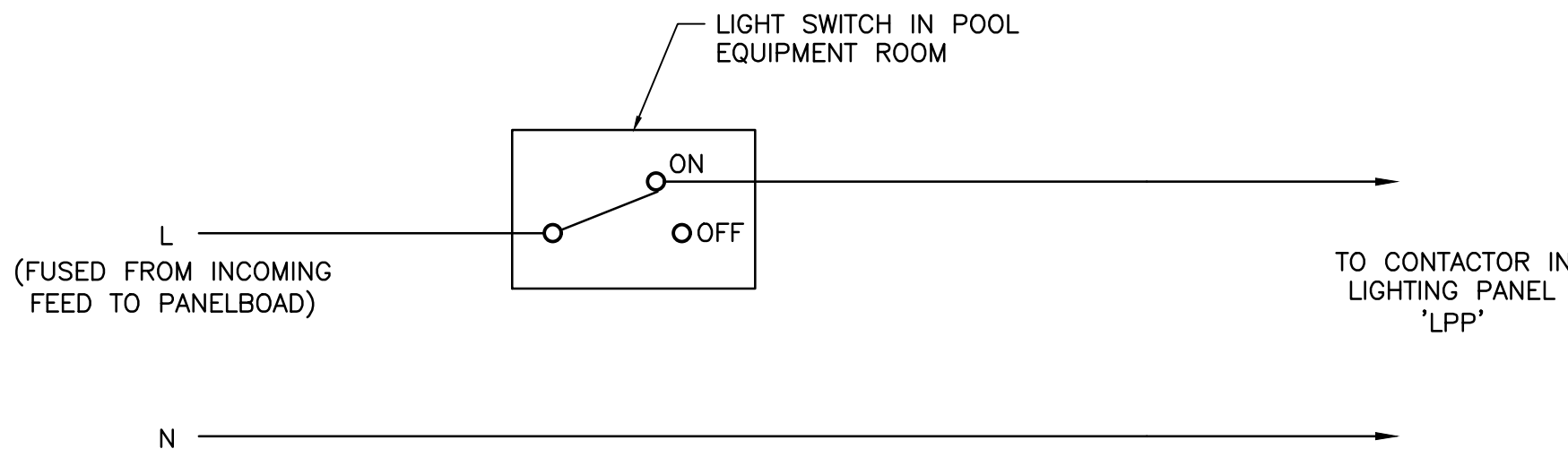
 <div>D&B ENGINEERS AND ARCHITECTS, P.C. 4 WEST RED OAK LANE WHITE PLAINS, NY, 10604 (914)467-5300</div>		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.						RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER E-115			
									<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES		DIVISION OF ENGINEERING		SHEET NO. 164 OF 201			
									CONTRACTOR		PROJECT COORDINATOR		REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SCALE: AS NOTED DATE: NOVEMBER 10, 2020	REV. NO. 0
									NAME _____ SIGNATURE _____ TITLE _____ DATE _____		NAME _____ SIGNATURE _____ TITLE _____ DATE _____		DPW FILE NO.			
									REVISION		LIGHTING FIXTURE SCHEDULE		1-19-E-521			
		IN CHARGE OF JHM														
		CHECKED BY CAL														
		MADE BY MN	REVISION NUMBER	DATE	MADE BY	APP'D BY										

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.



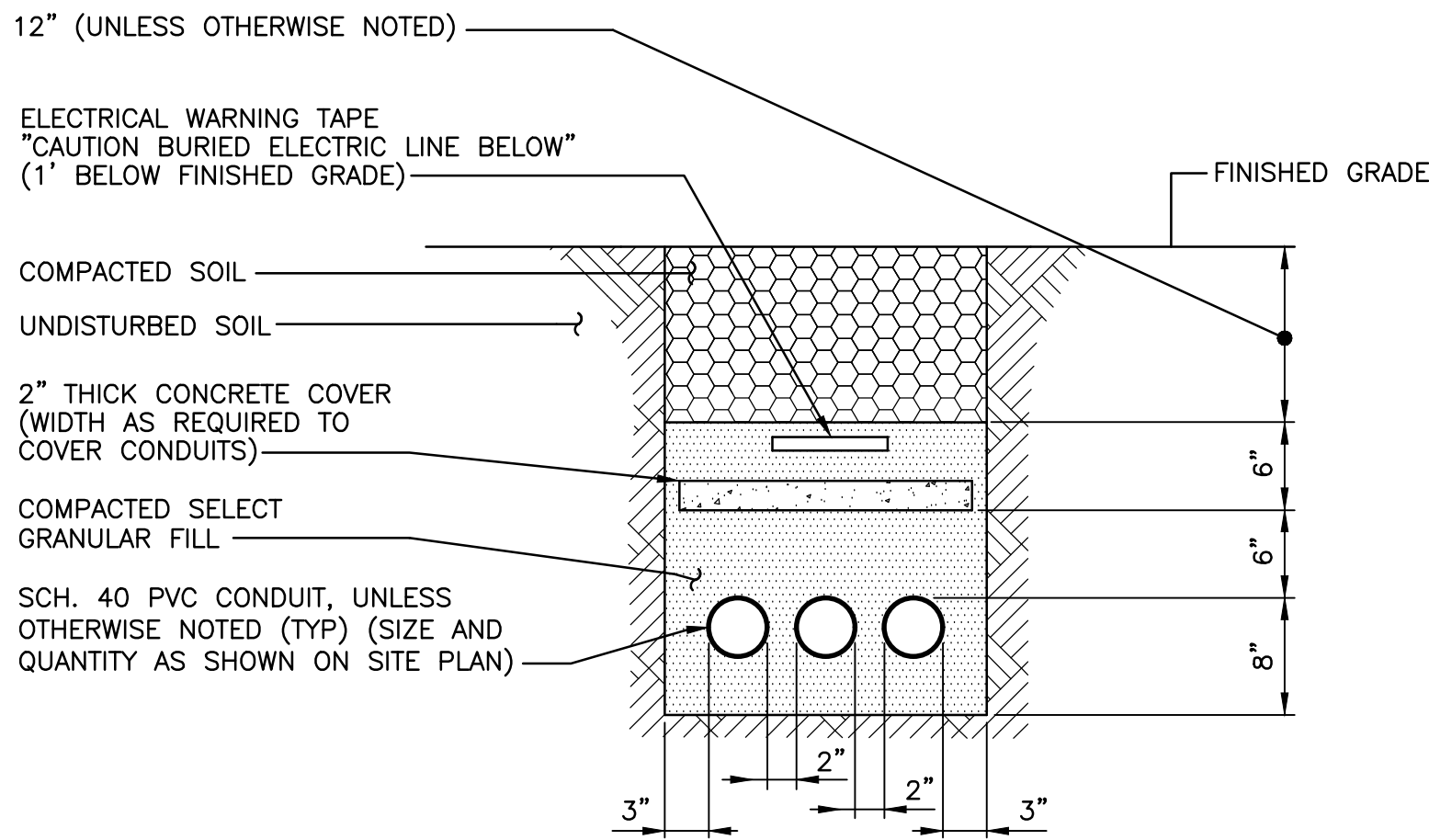
UNDERWATER LIGHTING



POLE MOUNTED LIGHTING

POOL LIGHTING CONTROL WIRING DIAGRAMS

N.T.S.



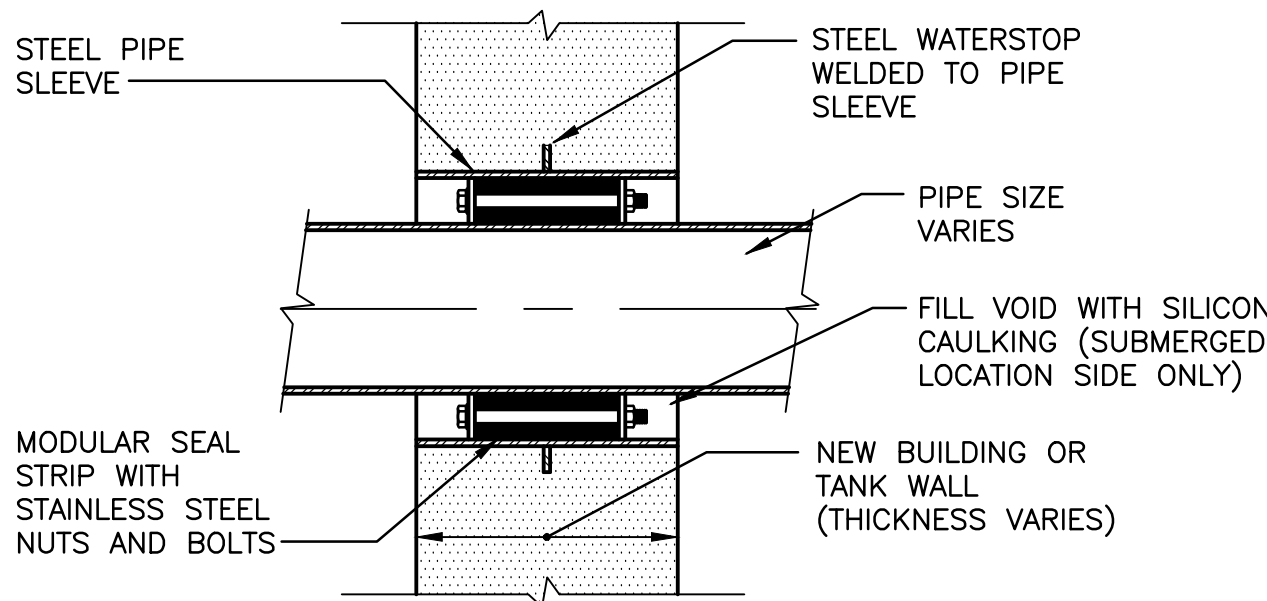
TYPICAL UNDERGROUND CONDUIT TRENCH DETAIL

(USE FOR ALL UNDERGROUND CONDUITS THAT ARE NOT BENEATH THE CONCRETE POOL DECK)

N.T.S.

NOTE:

1. INSTRUMENTATION CABLE (SHIELDED CABLE) SHALL BE INSTALLED IN RIGID GALVANIZED STEEL CONDUIT. THIS INCLUDES CABLES FOR THE IT SYSTEM AND AUDIO SOUND SYSTEM.

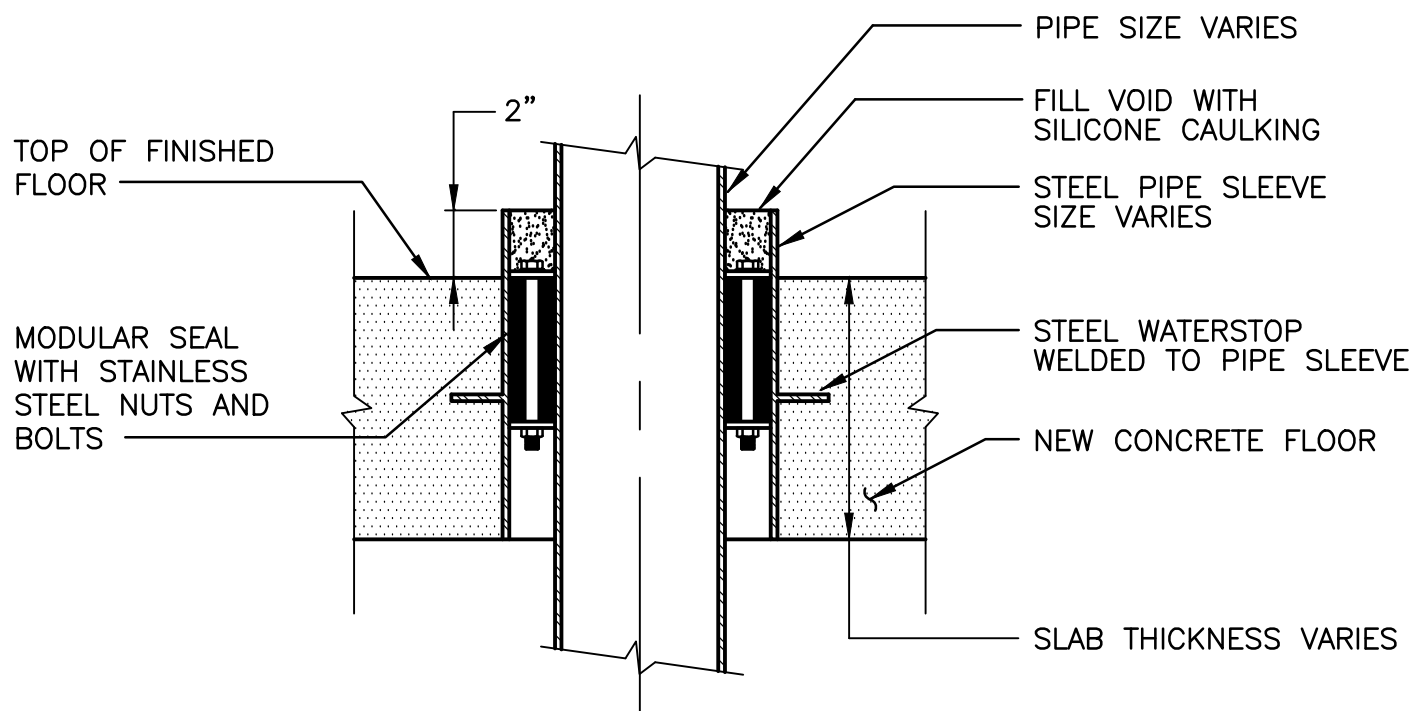


- NOTES:
1. MODULAR SEAL STRIP SHALL BE PLACED SO THAT BOLTS CAN BE ADJUSTED DURING NORMAL OPERATION.
2. WALLS 12" OR LARGER IN THICKNESS SHALL REQUIRE 2 MODULAR SEAL STRIPS.

TYPICAL CONDUIT PENETRATION THRU NEW WALL (BELOW GRADE)

(USE FOR ALL NEW WALL PENETRATIONS)

N.T.S.



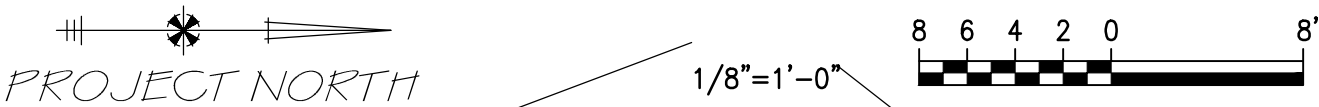
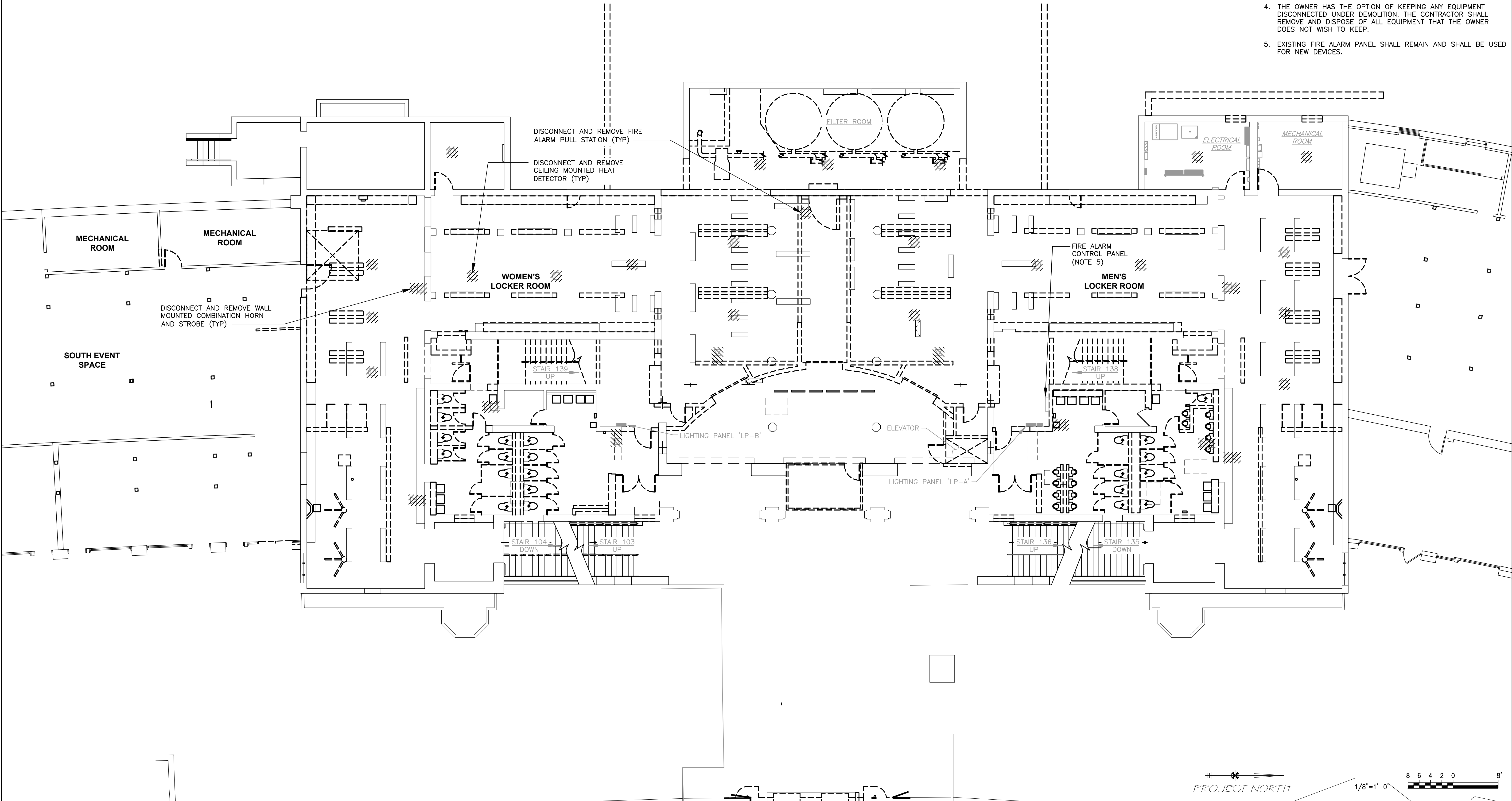
- NOTES:
1. MODULAR SEAL STRIP SHALL BE PLACED SO THAT BOLTS CAN BE ADJUSTED DURING NORMAL OPERATION.
2. FLOORS 12" OR LARGER IN THICKNESS SHALL REQUIRE 2 MODULAR SEAL STRIPS.

TYPICAL CONDUIT PENETRATION THRU NEW FLOOR

(USE FOR ALL NEW FLOOR PENETRATIONS)

N.T.S.

- NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
 2. ALL CONDUIT AND WIRE RELATED TO ITEMS AND EQUIPMENT REMOVED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. DEMOLITION SHALL INCLUDE HANGERS, PIPE CLAMPS, JUNCTION BOXES, ANCHORS, SUPPORTS AND CONDUIT FITTINGS.
 3. CABLE AND WIRE IN CONDUIT EMBEDDED IN WALLS AND FLOORS SHALL BE REMOVED AND CONDUIT PLUGGED FLUSH WITH SURFACE. CONTRACTOR SHALL REMOVE ALL SPALLED, CRACKED, OR LOOSE CONCRETE COVER OVER EXISTING EMBEDDED CONDUIT, BACK TO SOUND CONCRETE. CONTRACTOR SHALL PATCH ALL PITS, CRACKS, ETC., LEVEL WITH EXISTING SURFACES. APPLY BONDING COMPOUND PRIOR TO PLACING NON-SHRINK GROUT.
 4. THE OWNER HAS THE OPTION OF KEEPING ANY EQUIPMENT DISCONNECTED UNDER DEMOLITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO KEEP.
 5. EXISTING FIRE ALARM PANEL SHALL REMAIN AND SHALL BE USED FOR NEW DEVICES.



**D&B ENGINEERS
AND
ARCHITECTS, P.C.**
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300



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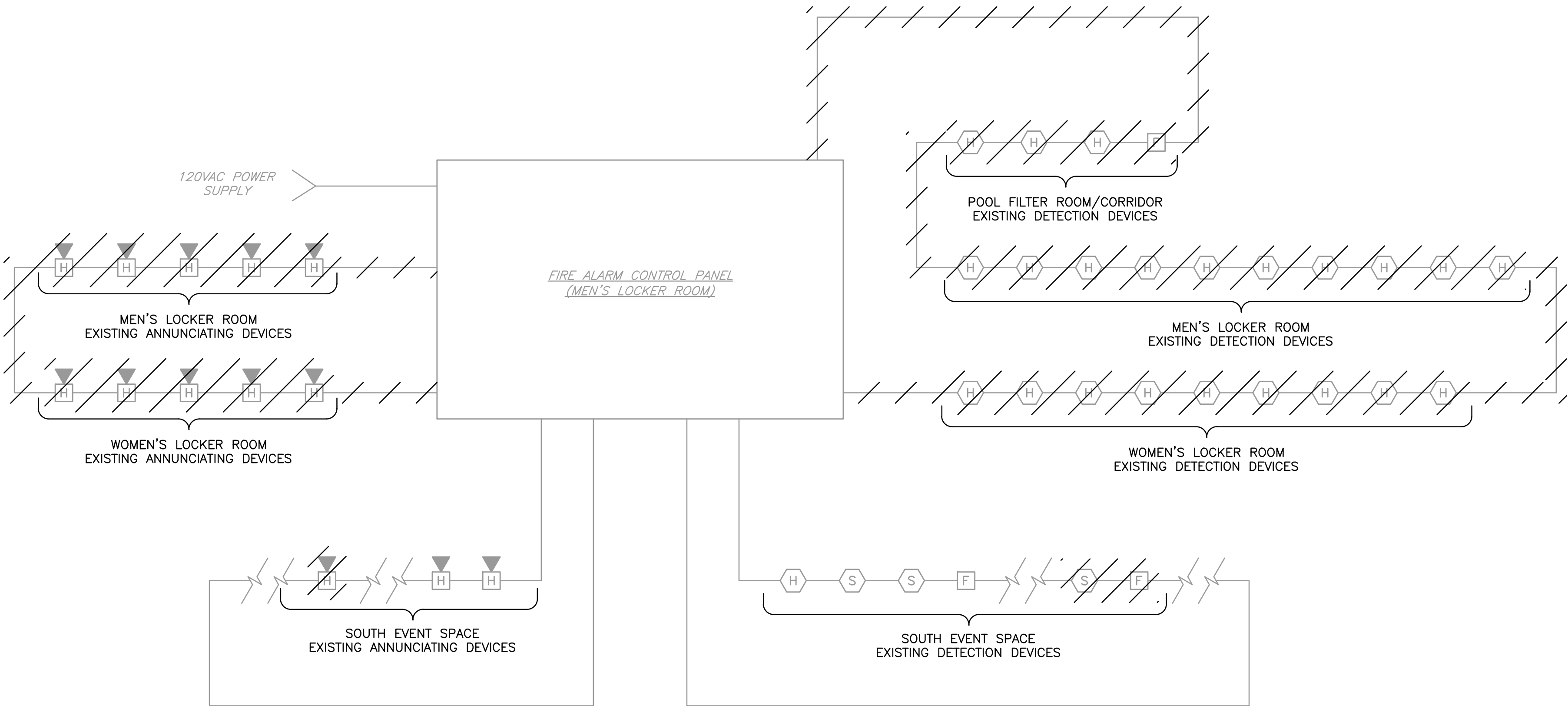
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED		<input type="checkbox"/> AS BUILT - NO CHANGES	
CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____
DATE _____	DATE _____	DATE _____	DATE _____

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER FA-100
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK FIRE ALARM PLAN BATHHOUSE - DEMOLITION		SHEET NO. 166 OF 201	
SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. _____		REV. NO. 0	

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.



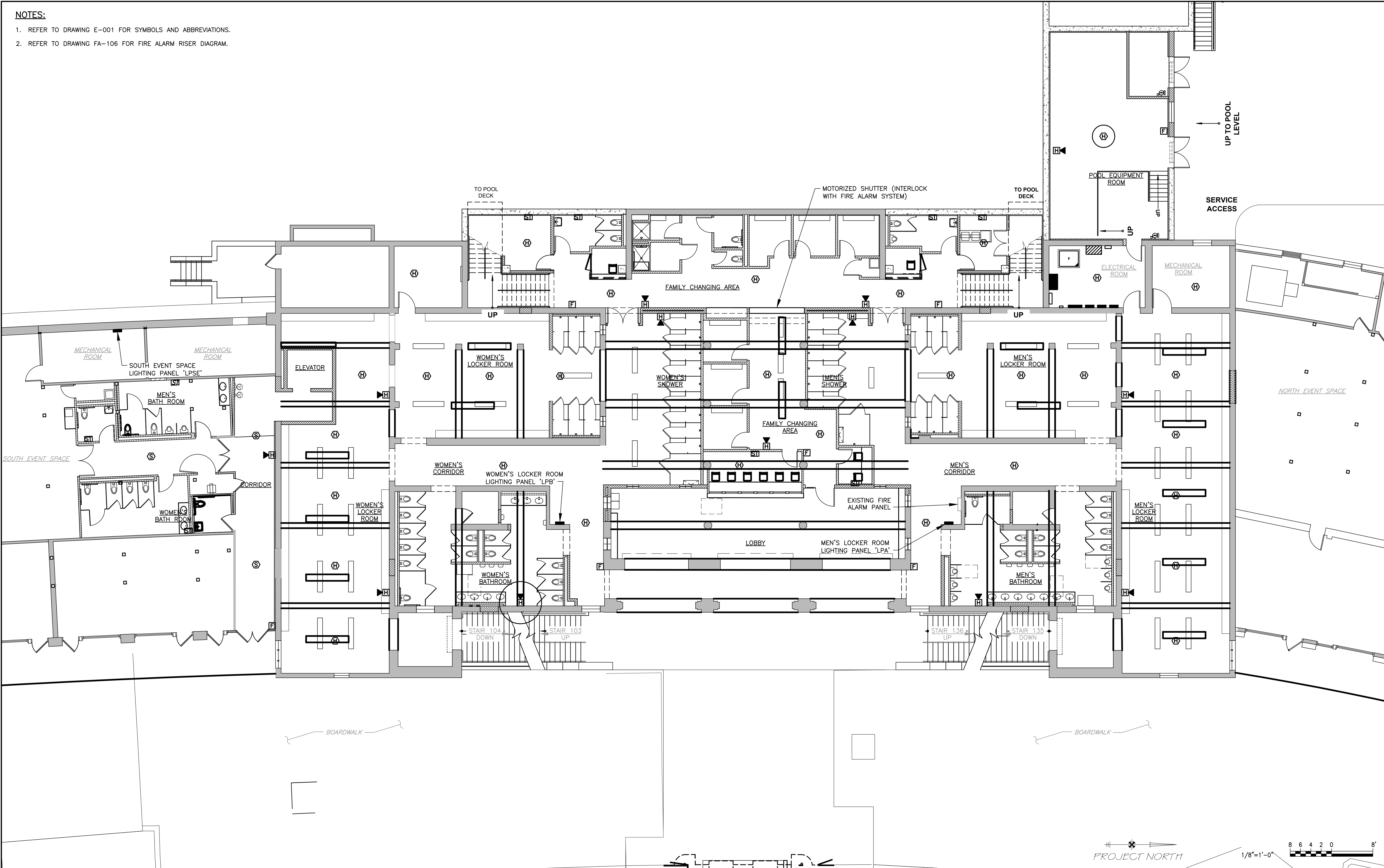
RISER DIAGRAM
N.T.S.

- NOTES:
1. COORDINATE DEVICE QUANTITIES AND LOCATIONS WITH PLAN DRAWINGS.

- LEGEND:
- COMBINATION HORN/STROBE
 - SMOKE DETECTOR
 - HEAT DETECTOR
 - PULL STATION

 4 WEST RED OAK LANE WHITE PLAINS, NY, 10604 (914)467-5300	 UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. IN CHARGE OF <u>JHM</u> CHECKED BY <u>CAL</u> MADE BY <u>MN</u>						RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER FA-101		
								<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES		SHEET NO. 167 OF 201				
								CONTRACTOR		PROJECT COORDINATOR		SCALE: AS NOTED DATE: NOVEMBER 10, 2020		
								NAME _____ SIGNATURE _____ TITLE _____ DATE _____		NAME _____ SIGNATURE _____ TITLE _____ DATE _____		DPW FILE NO. 1-19-E-524		REV. NO. 0
										REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK FIRE ALARM RISER DIAGRAM - DEMOLITION				

NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING FA-106 FOR FIRE ALARM RISER DIAGRAM.



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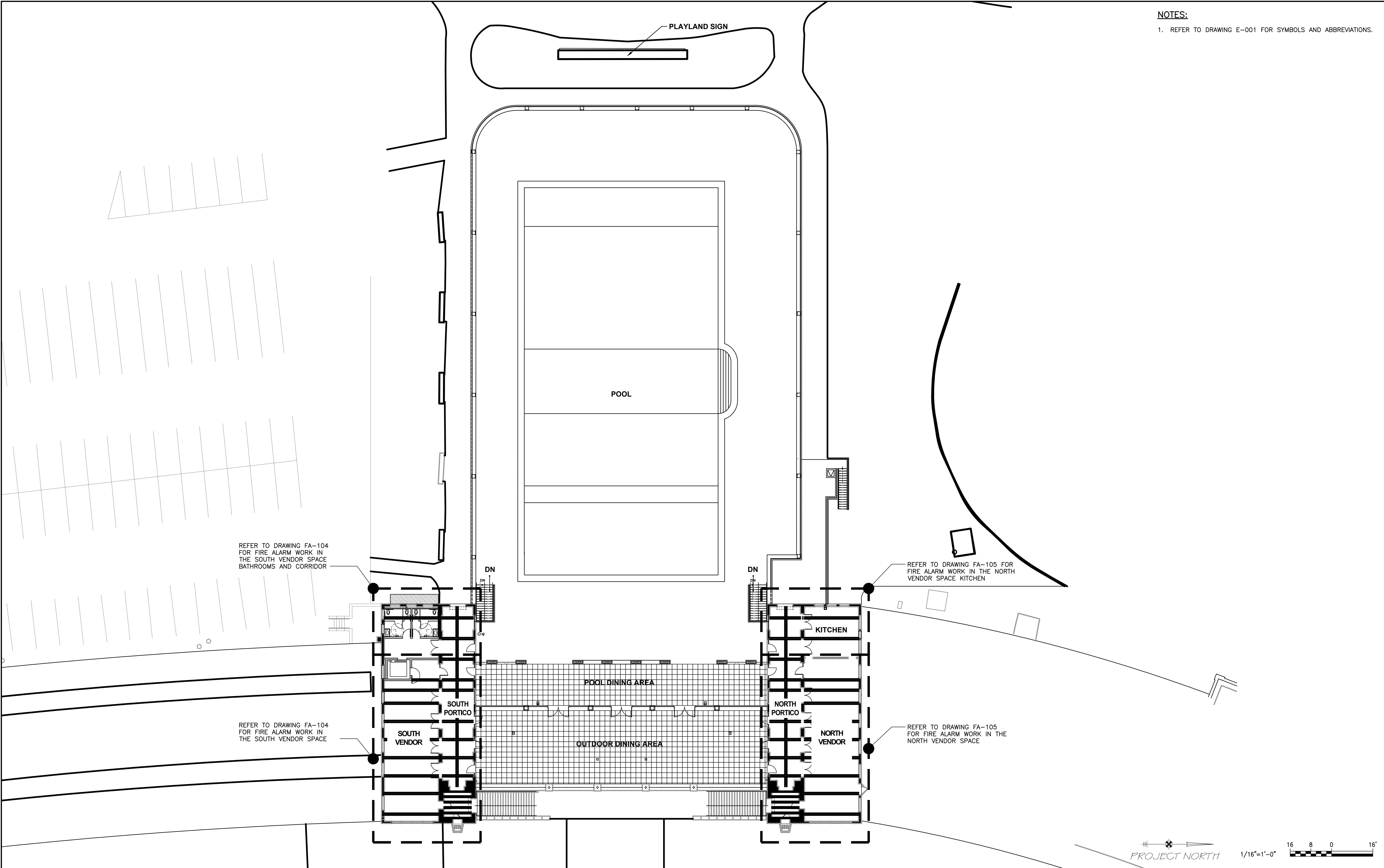
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TITLE _____	TITLE _____	TITLE _____	TITLE _____

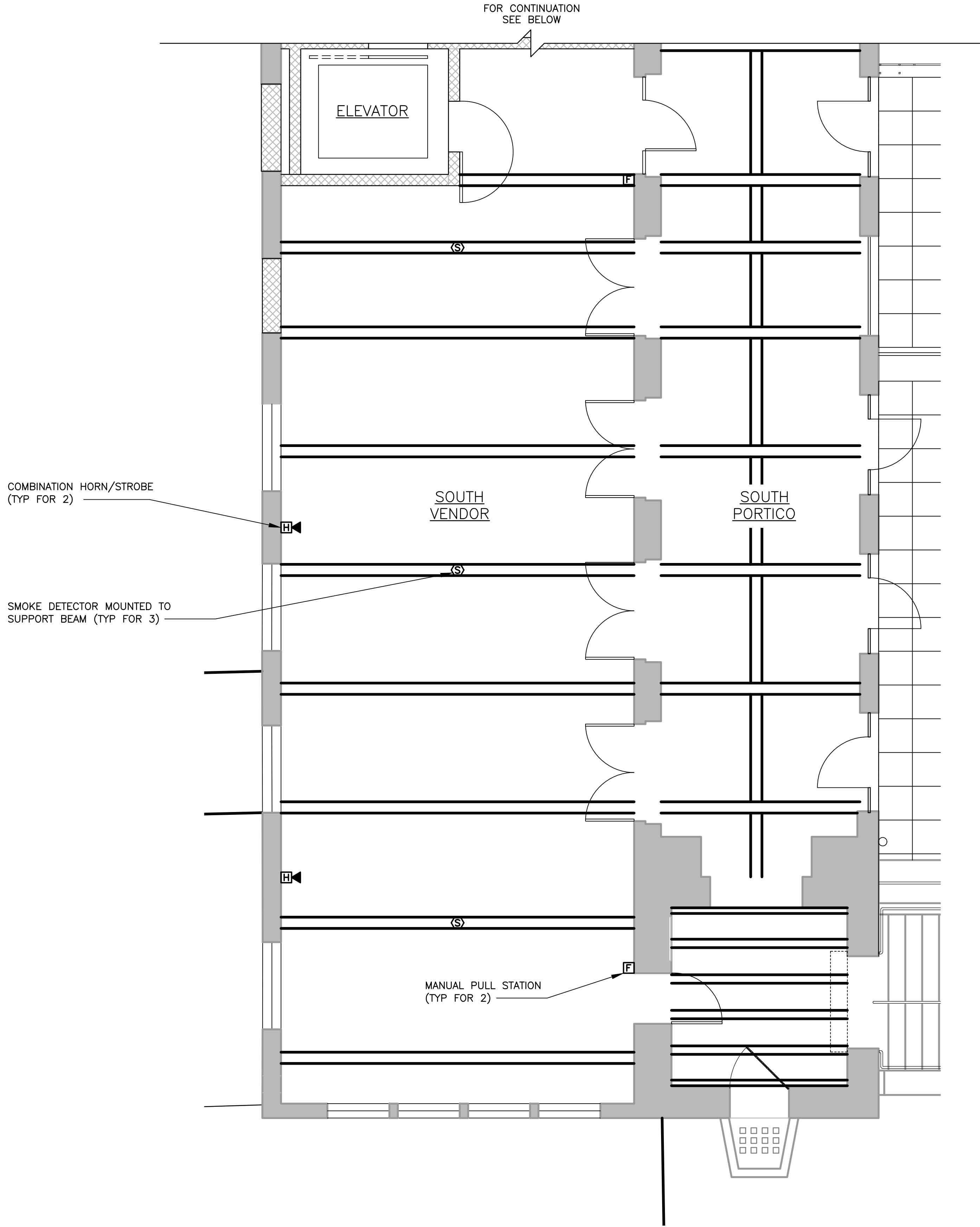
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER FA-102
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK FIRE ALARM PLAN BATHHOUSE		SHEET NO. 168 OF 201	
SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. _____		REV. NO. 0	



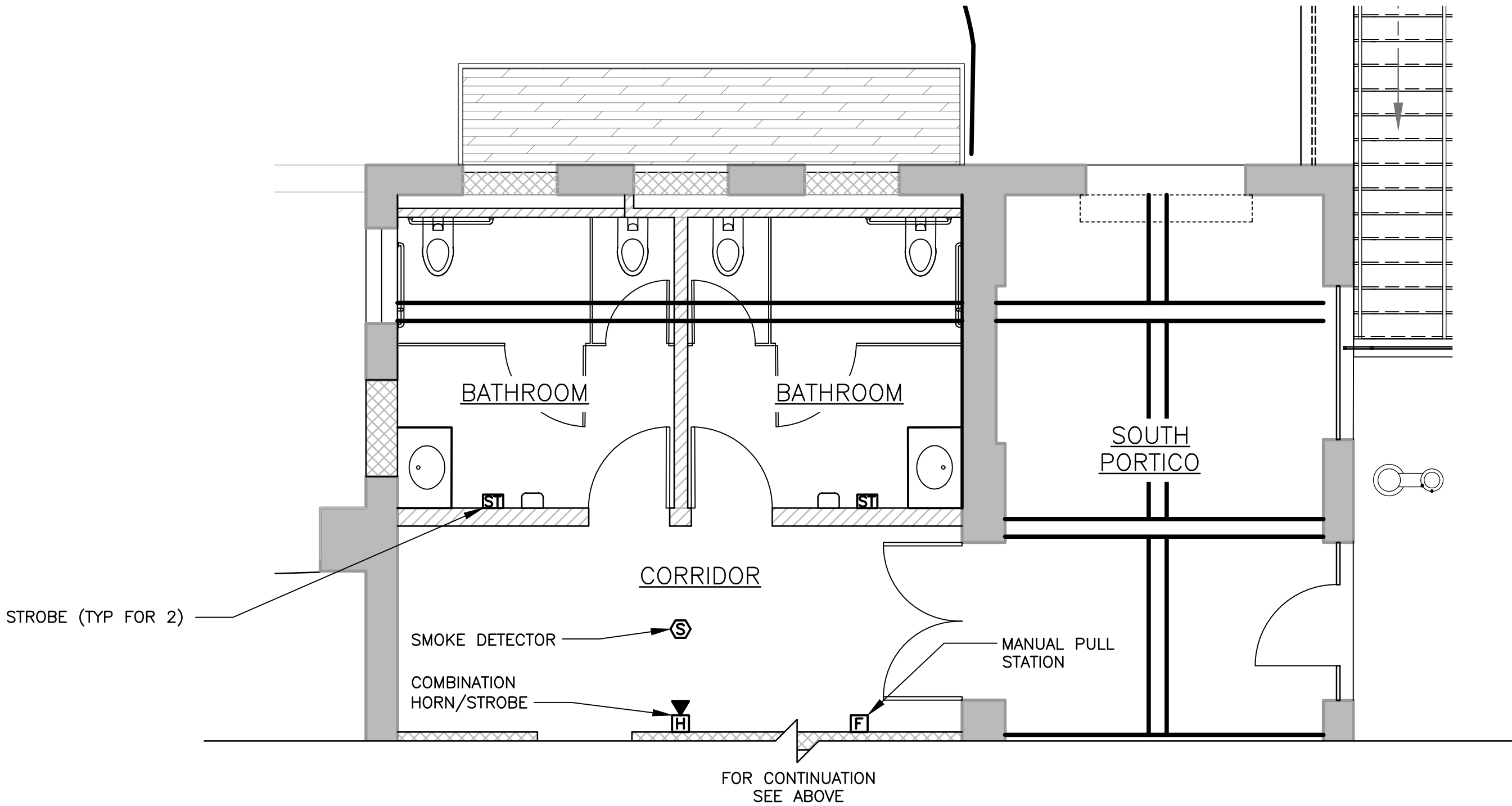
NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.

 D&B ENGINEERS AND ARCHITECTS, P.C. 4 WEST RED OAK LANE WHITE PLAINS, NY, 10604 (914)467-5300	 CONSULTANT SEAL CHRISTOPHER A. PANFILI No. 56575 REGISTERED PROFESSIONAL ENGINEER	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.				REVISION				RECORD DRAWING CERTIFICATION				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 20-504		SHEET NUMBER FA-103	
		IN CHARGE OF JHM CHECKED BY CAL MADE BY MN				REVISION NUMBER	DATE	MADE BY	APP'D BY	NAME	SIGNATURE	TITLE	DATE	NAME	SIGNATURE	TITLE	DATE	SHEET NO. 169 OF 201		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-526	

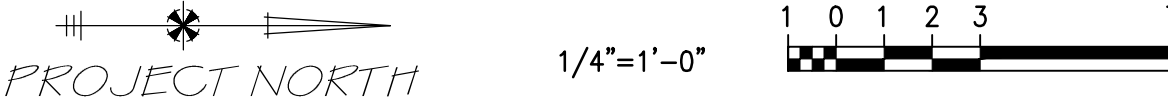
NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.



SOUTH VENDOR SPACE PLAN
SCALE: 1/4" = 1'-0"



SOUTH VENDOR SPACE PLAN
SCALE: 1/4" = 1'-0"



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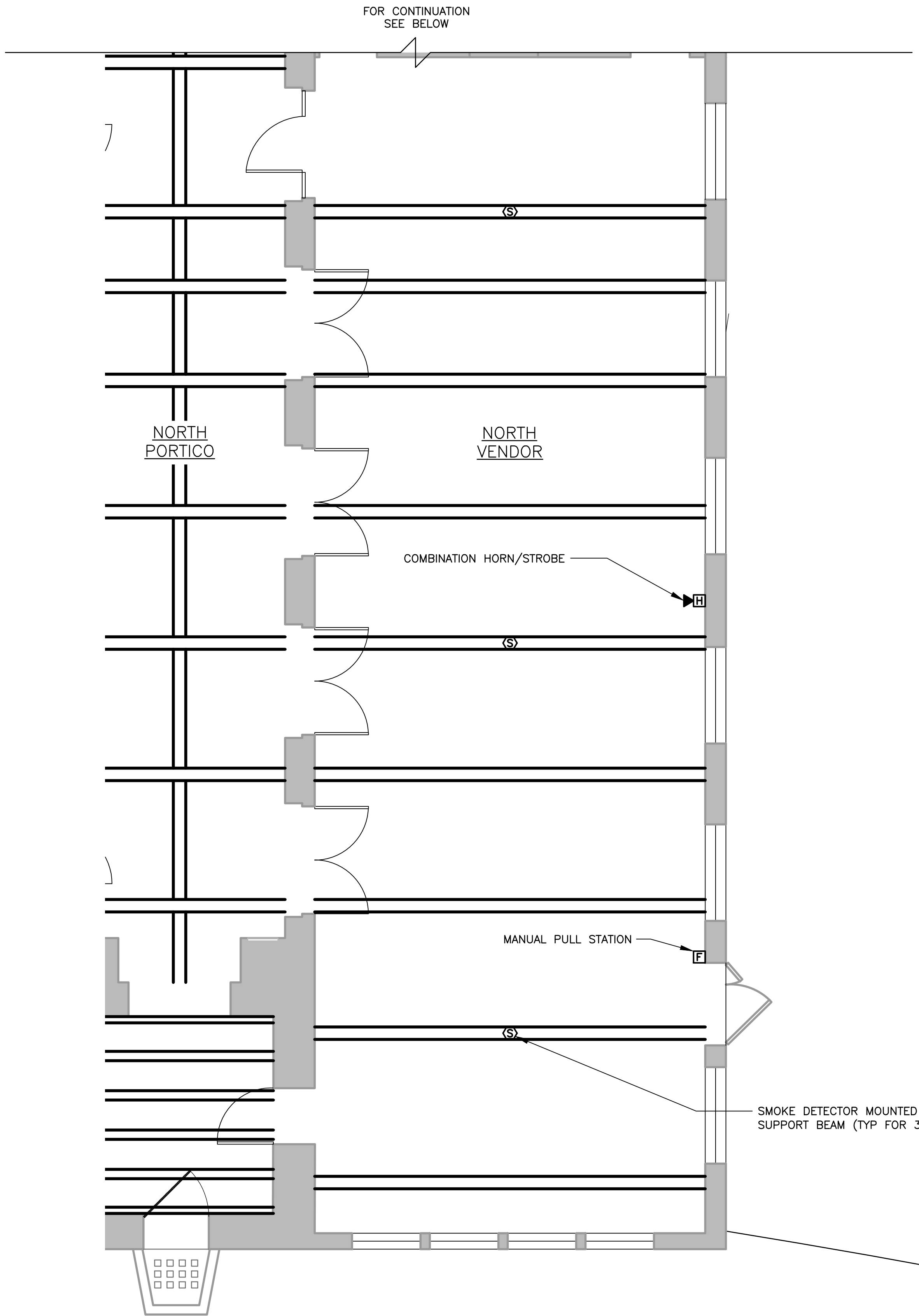
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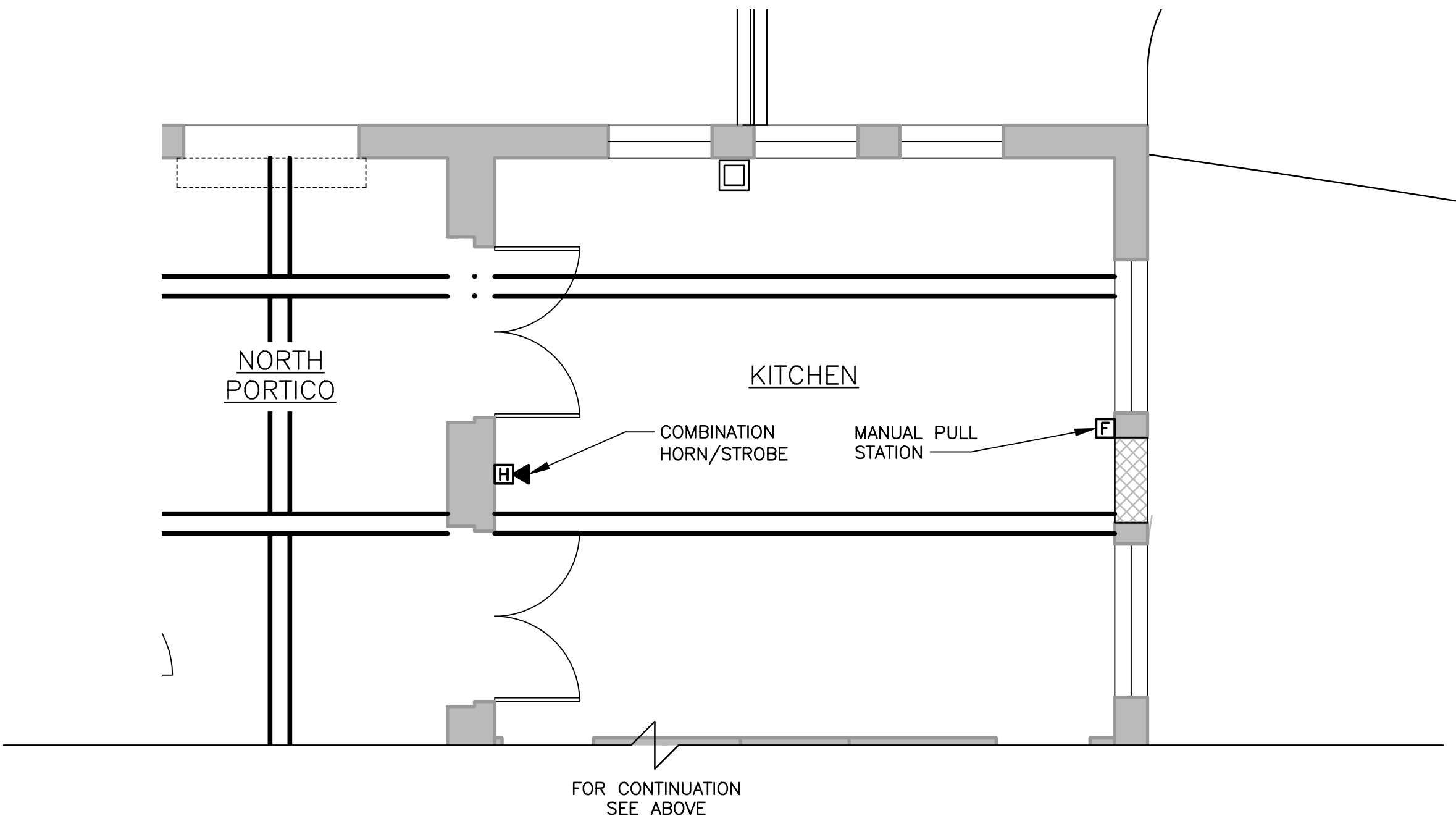
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER FA-104
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK FIRE ALARM PLAN SOUTH VENDOR SPACE		SHEET NO. 170 OF 201 SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-527	
		REV. NO. 0	

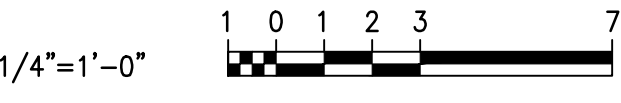
NOTES:
1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.



NORTH VENDOR SPACE PLAN
SCALE: 1/4" = 1'-0"



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



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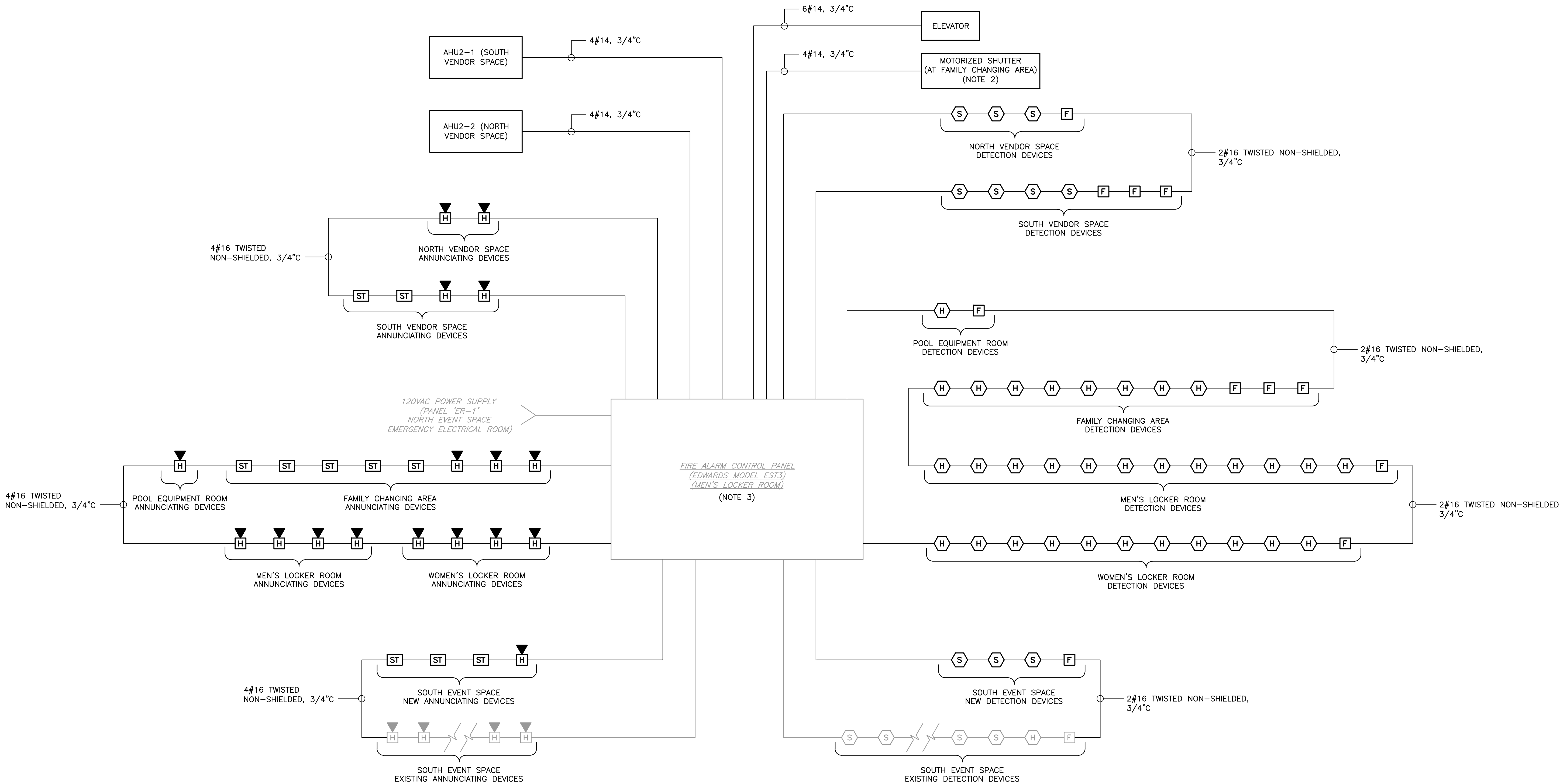
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CONTRACTOR		PROJECT COORDINATOR	
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TITLE _____ DATE _____	TITLE _____ DATE _____	TITLE _____ DATE _____	TITLE _____ DATE _____

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER FA-105
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK FIRE ALARM PLAN NORTH VENDOR SPACE - NEW WORK		SHEET NO. 171 OF 201	SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-528
		REV. NO. 0	

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. MOTORIZED SHUTTER SHALL CLOSE UPON FIRE ALARM.
3. EXISTING FIRE ALARM CONTROL PANEL SHALL BE MODIFIED, EXPANDED OR REPLACED TO ACCOMMODATE THE PROPOSED SYSTEM. REFER TO SPECIFICATION SECTION 283100 FOR FIRE DETECTION AND ALARM SYSTEM.



RISER DIAGRAM
N.T.S.

NOTES:

1. COORDINATE DEVICE QUANTITIES AND LOCATIONS WITH PLAN DRAWINGS.

LEGEND:

- ▼
H COMBINATION HORN/STROBE
- S SMOKE DETECTOR
- H HEAT DETECTOR
- F PULL STATION
- ST STROBE

CONSULTANT SEAL



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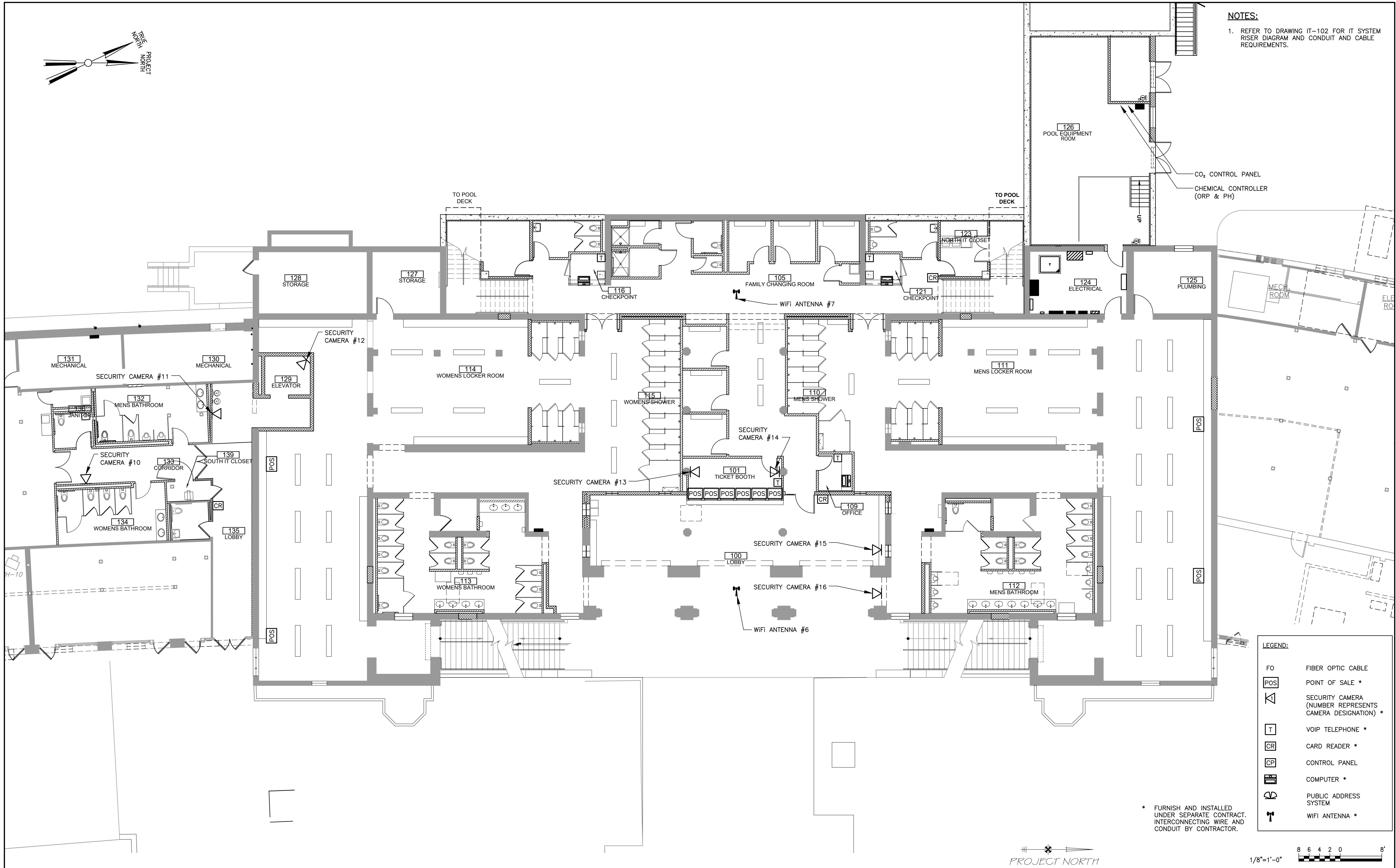
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☐ AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME _____		NAME _____	
SIGNATURE _____		SIGNATURE _____	
TITLE _____ DATE _____		TITLE _____ DATE _____	

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
**FIRE ALARM
RISER DIAGRAM**

CONTRACT NUMBER 20-504	SHEET NUMBER FA-106
SHEET NO. 172 OF 201	
SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO.	
1-19-E-529	REV. NO. 0



NOTES:
1. REFER TO DRAWING IT-102 FOR IT SYSTEM RISER DIAGRAM AND CONDUIT AND CABLE REQUIREMENTS.

LEGEND:	
FO	FIBER OPTIC CABLE
POS	POINT OF SALE *
	SECURITY CAMERA (NUMBER REPRESENTS CAMERA DESIGNATION) *
T	VOIP TELEPHONE *
CR	CARD READER *
CP	CONTROL PANEL
	COMPUTER *
	PUBLIC ADDRESS SYSTEM
	WIFI ANTENNA *

* FURNISH AND INSTALLED UNDER SEPARATE CONTRACT. INTERCONNECTING WIRE AND CONDUIT BY CONTRACTOR.

PROJECT NORTH

1/8"=1'-0" 8 6 4 2 0 8'

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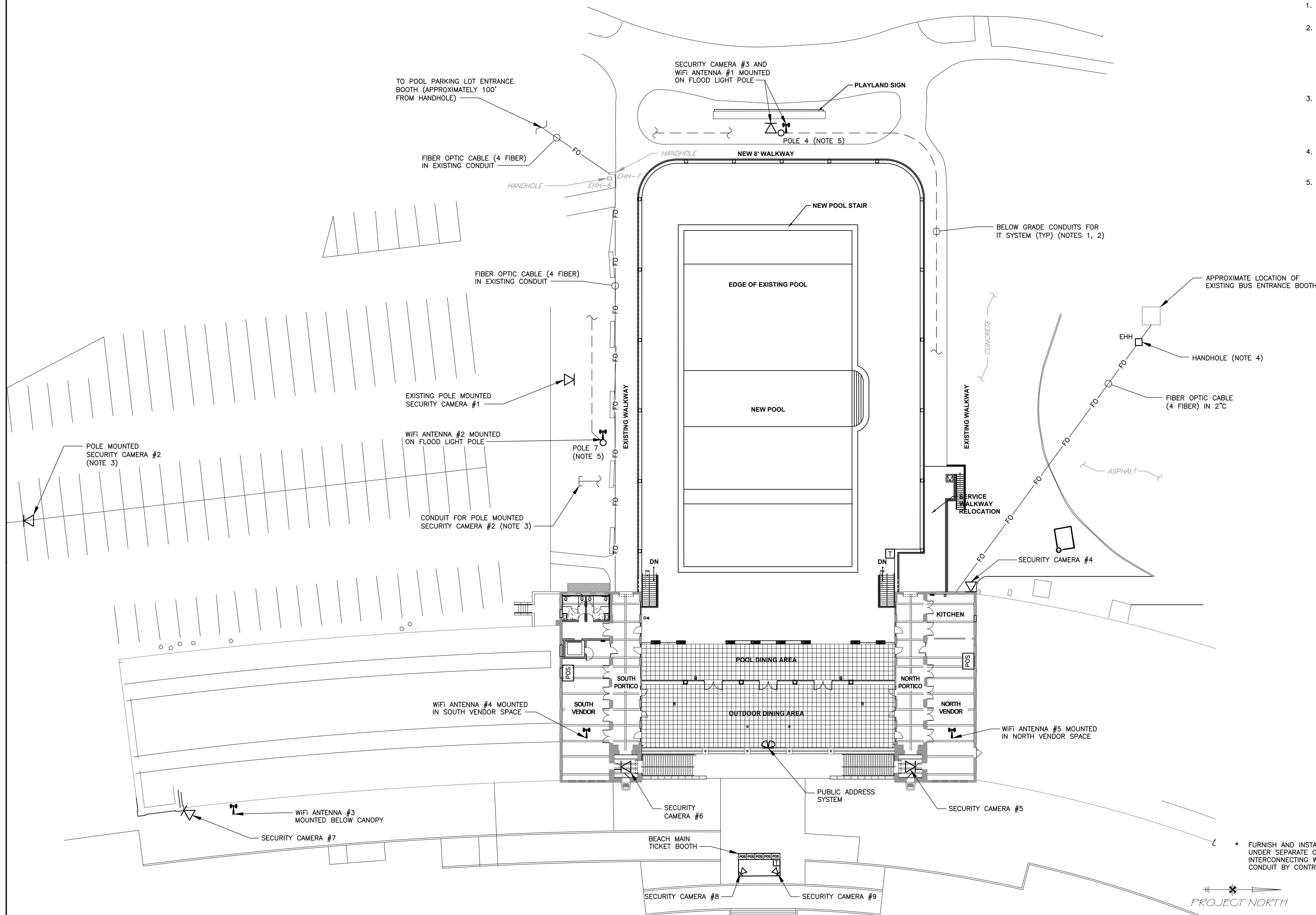
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER IT-100
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 173 OF 201	
BATHHOUSE IT PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-530	REV. NO. 0

NOTES:

1. REFER TO DRAWING IT-102 FOR IT SYSTEM RISER DIAGRAM AND CONDUIT AND CABLE REQUIREMENTS.
2. COORDINATE BELOW GRADE CONDUITS FOR THE IT SYSTEM WITH THE RECONSTRUCTION OF BELOW GRADE SITE CONDUITS (DRAWING E-107), POLE MOUNTED POOL LIGHTS AND UNDERWATER POOL LIGHTS (DRAWING E-110) AND AUDIO SOUND SYSTEM (DRAWINGS AS-100 THRU AS-104). NOTE THAT THE IT SYSTEM AND AUDIO SYSTEM CONDUITS ARE REQUIRED TO BE RIGID GALVANIZED STEEL.
3. POLE MOUNTED SECURITY CAMERA #2: THE CONDUIT FOR THIS CAMERA SHALL BE FURNISHED AND INSTALLED FROM THE SOUTH IT CLOSET TO THE EXISTING WALKWAY AS SHOWN. CONDUIT TO BE EXTENDED TO SECURITY CAMERA UNDER SEPARATE CONTRACT.
4. HANDHOLE SHALL BE 24"Wx24"Lx24"D AND SHALL BE POLYMER CONCRETE, RATED FOR H2O LOADING (QUAZITE PG STYLE OR APPROVED EQUAL).
5. POLES P4 AND P7: THE CABLES TO THE SECURITY CAMERAS AND WIFI ANTENNAS SHALL NOT BE ROUTED INSIDE THE POLE, THE CABLES TO THESE DEVICES AT EACH POLE SHALL BE INSTALLED IN 1" CONDUIT ROUTED ALONG THE POLE EXTERIOR.



LEGEND:

- | | |
|-----|--|
| FO | FIBER OPTIC CABLE |
| POS | POINT OF SALE * |
| SC | SECURITY CAMERA (NUMBER REPRESENTS CAMERA DESIGNATION) * |
| T | VOIP TELEPHONE * |
| CR | CARD READER * |
| CP | CONTROL PANEL |
| COM | COMPUTER * |
| PAS | PUBLIC ADDRESS SYSTEM |
| WA | WIFI ANTENNA * |

* FURNISH AND INSTALLED UNDER SEPARATE CONTRACT. INTERCONNECTING WIRE AND CONDUIT BY CONTRACTOR.

PROJECT NORTH

1"=20'-0" 20 10 0 20'

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NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR

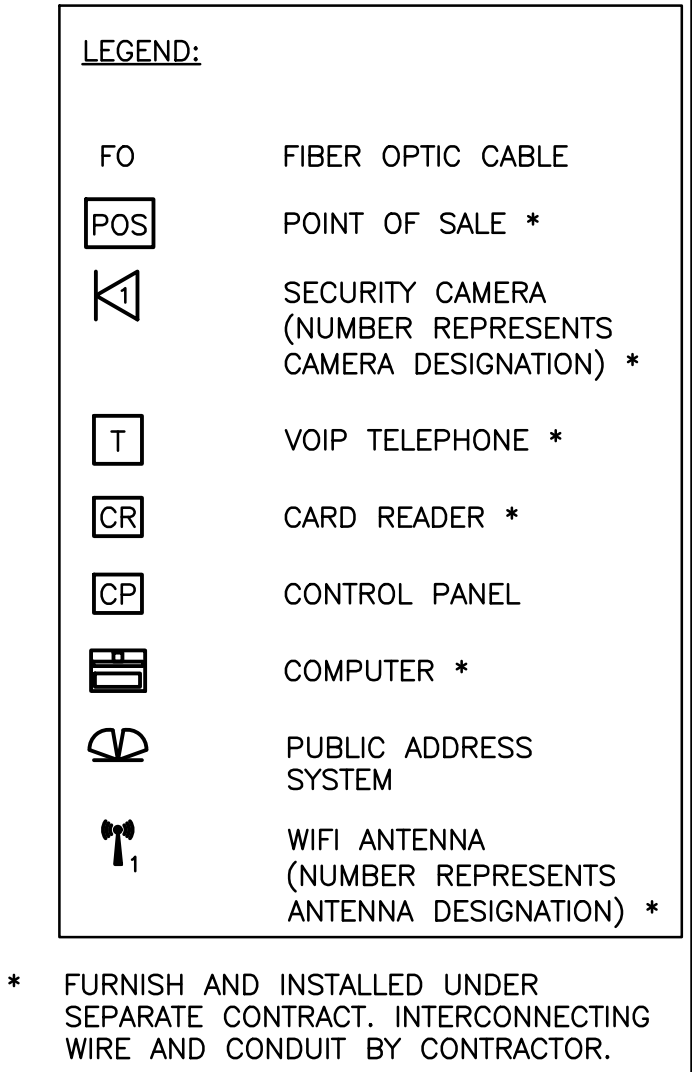
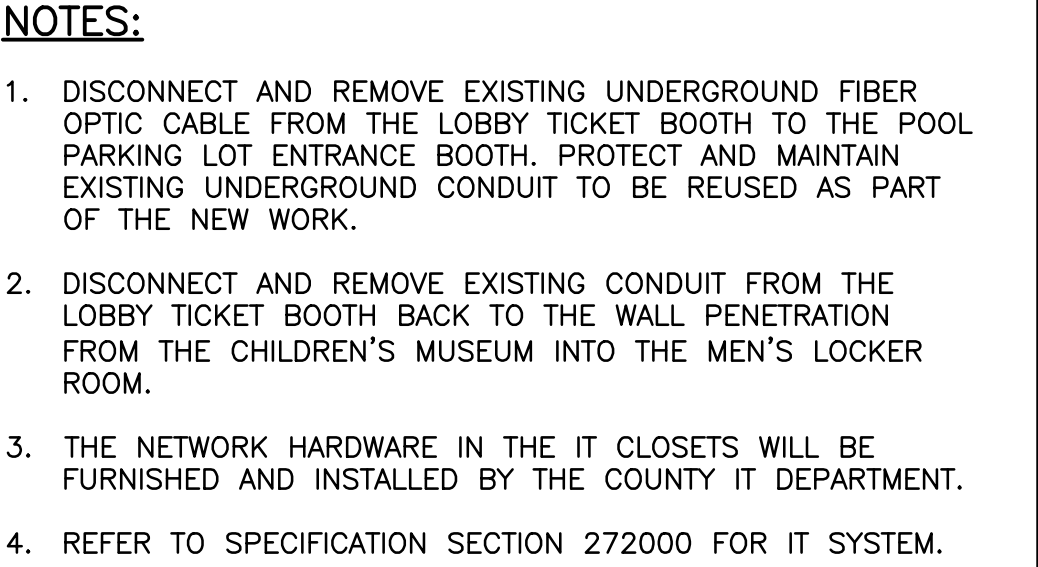
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

POOL DECK LEVEL IT PLAN

CONTRACT NUMBER 20-504	SHEET NUMBER IT-101
SHEET NO. 174 OF 201	
SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. <u> </u>	
1-19-E-531	REV. NO. <u>0</u>



1. REFER TO DRAWING AS-103 FOR PA SOUND SYSTEM RISER DIAGRAM.
2. REFER TO DRAWING AS-104 FOR DETAILS AND SPECIFICATIONS FOR THE AUDIO SOUND SYSTEM.

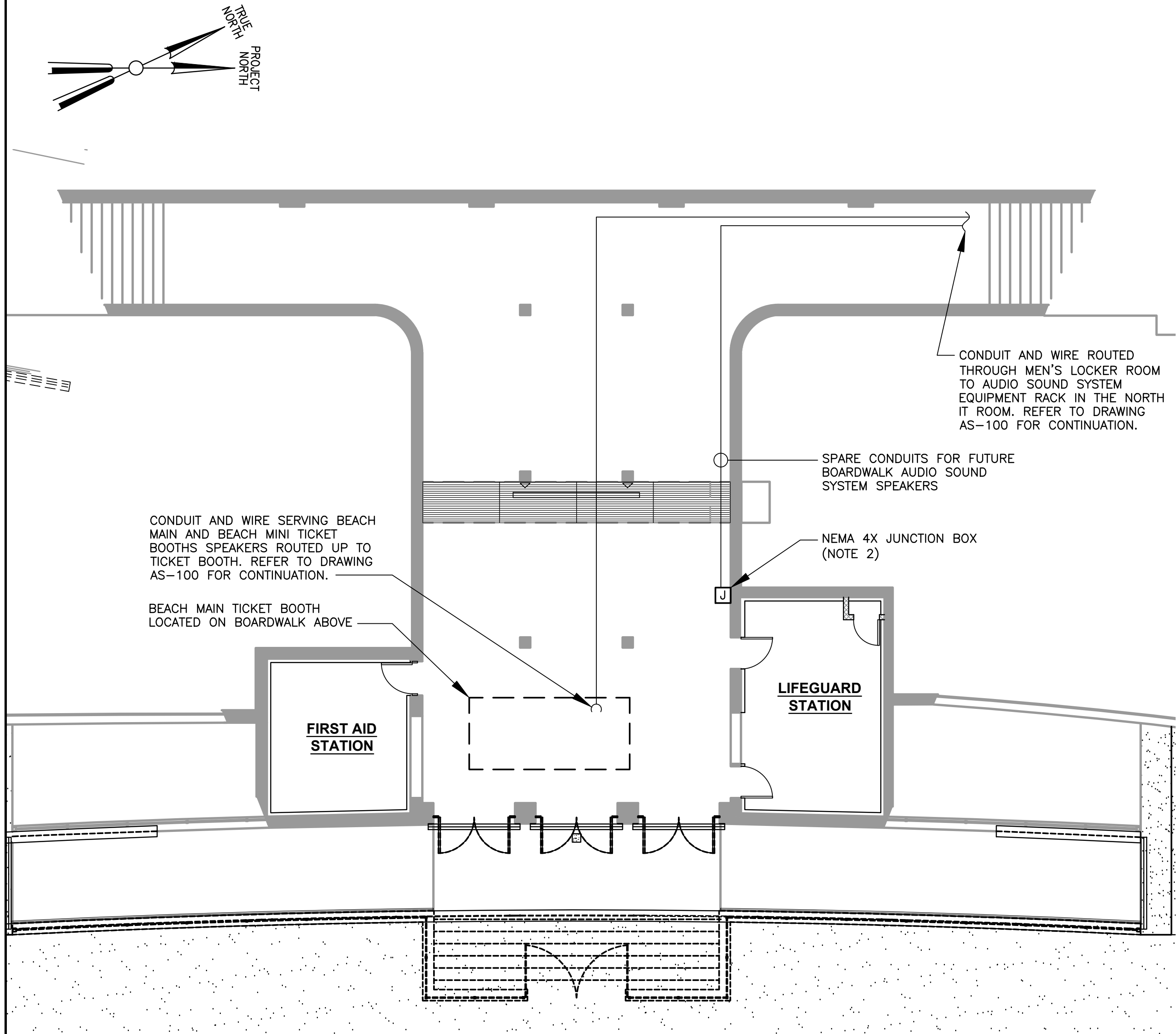


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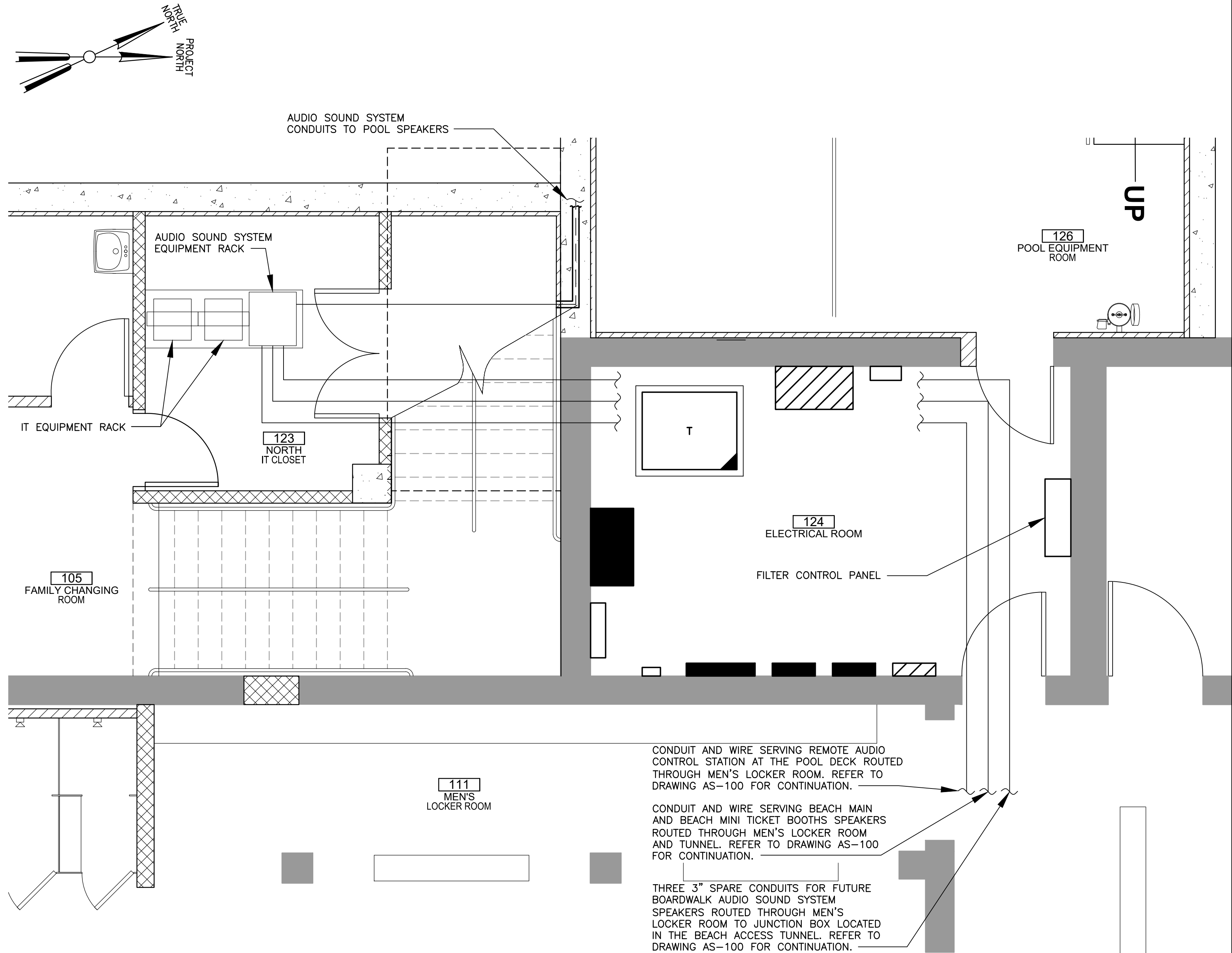
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N	CONTRACT NUMBER	SHEET NUMBER
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SHEET NO. 176 OF 201		
SCALE: AS NOTED		
DATE: NOVEMBER 10, 2020		
DPW FILE NO.		REV. NO.
1-19-E-533		0

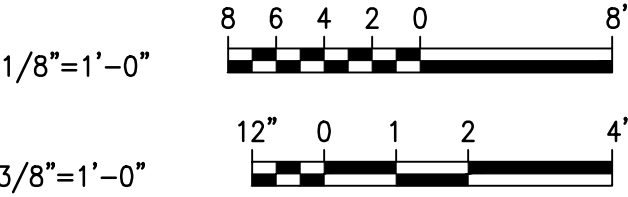
- NOTES:
1. REFER TO DRAWING AS-103 FOR AUDIO SOUND SYSTEM RISER DIAGRAM.
 2. SPARE CONDUITS FOR FUTURE BOARDWALK AUDIO SOUND SYSTEM SPEAKERS SHALL BE TERMINATED AT THE JUNCTION BOX LOCATED IN THE TUNNEL.



BEACH ACCESS TUNNEL PLAN
SCALE: 1/8" = 1'-0"



ENLARGED BATHHOUSE PLAN
SCALE: 3/8" = 1'-0"



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ARCHITECTS, P.C.**
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10604
(914)467-5300



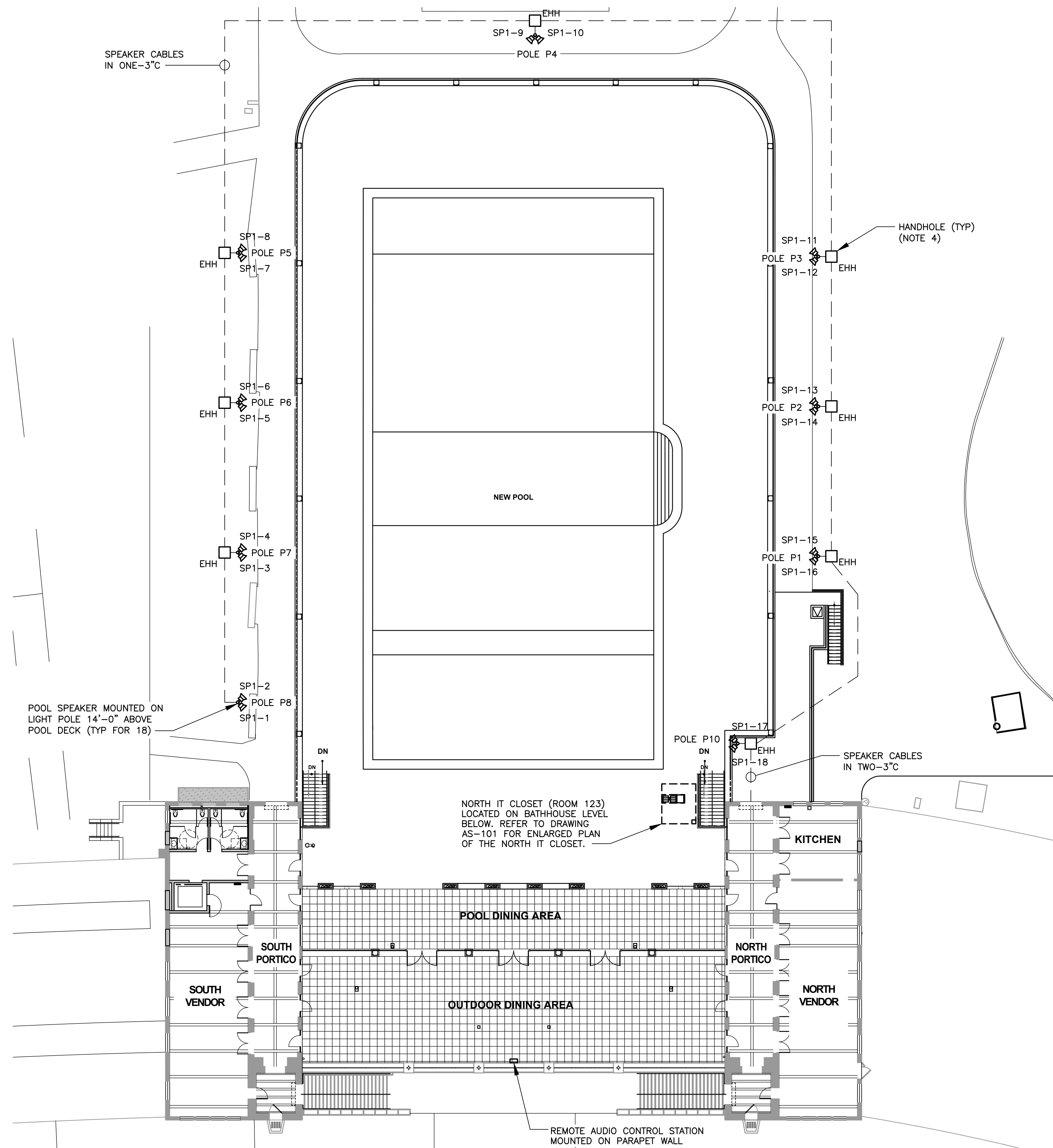
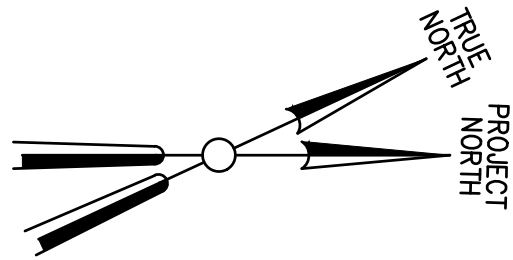
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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER AS-101
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 177 OF 201	
ENLARGED AUDIO SOUND SYSTEM PLANS		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO.	REV. NO. 0



ENLARGED POOL PLAN
SCALE: 1/16" = 1'-0"



1/16" = 1'-0"

NOTES:

1. REFER TO DRAWING AS-103 FOR AUDIO SOUND SYSTEM RISER DIAGRAM.
2. COORDINATE BELOW GRADE CONDUITS FOR THE AUDIO SOUND SYSTEM WITH THE RECONSTRUCTION OF THE BELOW GRADE SITE CONDUITS (DRAWING E-107), POLE MOUNTED POOL LIGHTS AND UNDERWATER POOL LIGHTS (DRAWING E-110) AND IT SYSTEM (DRAWINGS IT-100 THRU IT-102). NOTE THAT THE IT SYSTEM AND AUDIO SYSTEM CONDUITS ARE REQUIRED TO BE RIGID GALVANIZED STEEL.
3. POLES P1 THRU P8, P10: THE CABLES TO THE SPEAKERS SHALL NOT BE ROUTED INSIDE THE POLE. THE CABLES TO THE SPEAKERS AT EACH POLE SHALL BE INSTALLED IN 1.25" CONDUIT ROUTED ALONG THE EXTERIOR OF THE POLE.
4. FURNISH AND INSTALL HANDHOLE AT EACH POLE FOR THE AUDIO SOUND SYSTEM CABLE AND IT SYSTEM CABLE. MINIMUM HANDHOLE SIZE SHALL BE 12"Wx12"Lx12"D AND HANDHOLES SHALL BE POLYMER CONCRETE, RATED FOR H2O TRAFFIC LOADING (QUAZITE PG STYLE OR APPROVED EQUAL).

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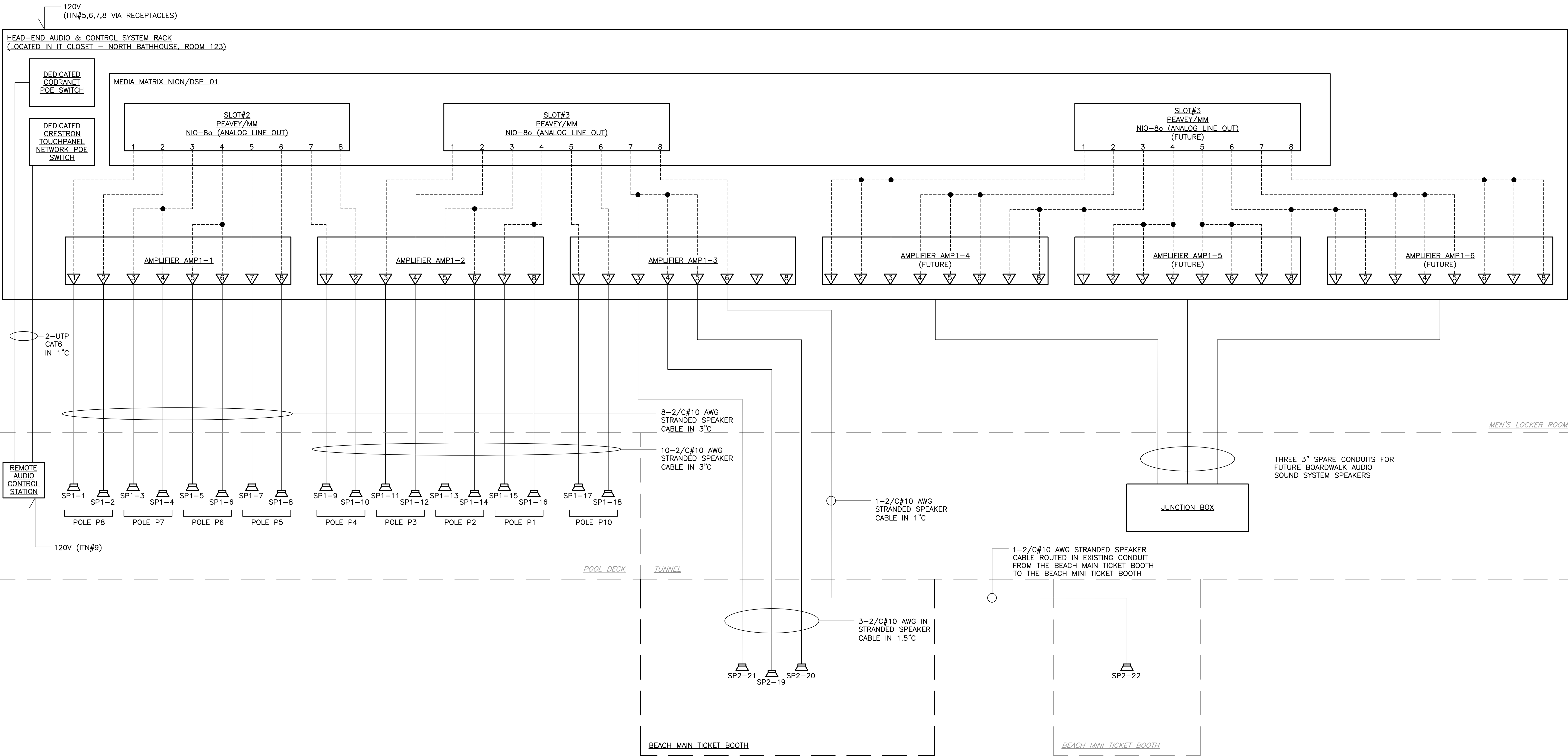
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TITLE _____	TITLE _____	TITLE _____	TITLE _____

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 20-504	SHEET NUMBER AS-102
REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK		SHEET NO. 178 OF 201	
POOL AUDIO SOUND SYSTEM PLAN		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-E-535	REV. NO. 0

NOTES:
1. REFER TO PLAN DRAWINGS FOR DEVICE LOCATIONS.



AUDIO SYSTEM SCOPE OF WORK

1. THE AUDIO AND CONTROL SYSTEM (ACS) SUBCONTRACTOR SHALL BE RESPONSIBLE FOR:
 - A. THE ROUTING & DISTRIBUTION OF ELECTRICAL POWER WITHIN THE AUDIO RACK.
 - B. SUPPLY OF ACCESSORIES AND ALL EQUIPMENT ITEMS NEEDED TO CREATE A COMPLETE AUDIO SYSTEM, EVEN IF NOT SPECIFICALLY MENTIONED HEREIN OR IN THE DRAWINGS, WITHOUT CLAIM FOR ADDITIONAL PAYMENT. THIS SHALL INCLUDE BUT NOT BE LIMITED TO RIGGING, FLY & AFFIXING HARDWARE, JACKS, PLUGS & ALL MISCELLANEOUS HARDWARE, SOFTWARE, LOW VOLTAGE CABLE, INFRASTRUCTURE, NETWORK GEAR, ETC.
 - C. TERMINATION OF ALL ACS LOW VOLTAGE CABLES.
 - D. INSTALLING ALL ACS EQUIPMENT & INFRASTRUCTURE.
 - E. CREATION OF A PRIVATE DEDICATED LAN FOR COBRANET DATA TRANSPORT.
 - F. CREATION OF A PRIVATE DEDICATED LAN FOR CRESTRON CONTROL SYSTEMS.
 - G. CUSTOM PROGRAMMING OF ACS INCLUDING GUI SCREENS.
 - H. CUSTOM PAINTING OF ALL SPEAKERS & HARDWARE TO MATCH LIGHT POLES & FENCING. COLOR TO BE DETERMINED BY ENGINEER.
2. SUBMITTALS
 - A. A COMPREHENSIVE EQUIPMENT SUBMISSIONS LIST DETAILING ALL EQUIPMENT & THEIR QUANTITIES, INCLUDING ANY I/O CARDS, I/O ELECTRONICS, WALL PLATES, D/A & A/D CONVERTERS, BALUNS, DISTRIBUTION ELECTRONICS, CONTROLLERS, & OTHER MISCELLANEOUS.
 - B. ALL OUT SHEETS FOR ALL EQUIPMENT MUST BE SUBMITTED WITH BID.
 - C. DETAILED BLOCK DIAGRAMS FOR AUDIO & CONTROL SYSTEMS SHOWING ALL EQUIPMENT AND SIGNAL FLOW & THE RELATIONSHIPS BETWEEN EQUIPMENT WITHIN EACH SYSTEM, AS WELL AS RELATIONSHIP AND INTERACTION OF SYSTEMS TO EACH OTHER.
 - D. CERTIFICATES SHOWING TRAINING DIRECTLY FROM MANUFACTURER OF DSP PROCESSING & CONTROL SYSTEM. COMPLETED TRAINING CERTIFICATES SHALL BE PROVIDED FOR:
 1. MEDIA MATRIX (DSP)
 2. CRESTRON (CONTROL SYSTEM)
 3. CERTIFICATES SHALL BE AWARDED TO ACS SUBCONTRACTOR'S PROJECT MANAGEMENT, SUCH AS COMPANY OWNER, SUBJECT MANAGER OR CHIEF ENGINEER.

AUDIO SYSTEM DESCRIPTION

1. THE AUDIO SYSTEM SHALL BE A WEATHER RESISTANT OUTDOOR SYSTEM PROVIDING HIGH QUALITY FULL RANGE SOUND EXCLUSIVELY FOR COVERAGE OF THE POOL DECK AREA & BEACH MAIN TICKET BOOTH AREA. SPEAKERS & CONTROL EQUIPMENT SHALL BE PERMANENTLY INSTALLED OUTSIDE FOR ALL YEAR EXPOSURE TO THE ELEMENTS. SYSTEM SOURCES SHALL INCLUDE OWNER FURNISHED (OFE) BACKGROUND & FOREGROUND MUSIC, LIVE, REAL-TIME SPEECH VIA WIRELESS MIC SYSTEM OR WIRED MIC, WIRED INPUT INTERFACE OF OUTSIDE ELECTRONICS VIA SYSTEM INPUTS, PRE-RECORDED VOICE ANNOUNCEMENTS VIA DIGITAL ANNOUNCERS/SCHEDULER, & PLAYBACK OF ANY OTHER ANALOG PROGRAM MATERIAL FROM OTHER OFF-EQUIPMENT SYSTEM INPUTS.
2. THE CONTROL SYSTEM SHALL FACILITATE SYSTEM OPERATION THAT IS SIMPLE, INTUITIVE & USER FRIENDLY FOR NON-TECHNICAL USERS, FROM PREPROGRAMMED TOUCH VIDEO PANELS (TVP) FEATURING CUSTOM CONTRACTOR PROVIDED GUI GRAPHICS. TVP & INPUT & OUTPUT PANEL (IO) SHALL BE CONVENIENTLY LOCATED IN A WEATHER RESISTANT NEMA BOX CONTROL STATION (CS) AS SHOWN IN THE DRAWINGS. DIGITAL & USE COBRANET PROTOCOL TO FACILITATE INPUT FROM OUTSIDE SOURCES. IO PANEL SHALL PROVIDE LINE LEVEL OUTPUT FOR OUTSIDE SOUND SYSTEMS (OUTSIDE SYSTEMS ARE NOT WITHIN THE SCOPE OF THIS SPECIFICATION).
3. THE AUDIO SYSTEM SHALL BE COMPRISED OF THREE ZONES. ZONE 1 (Z1) POOL AREA. ZONE 2 (Z2) BEACH MAIN TICKET BOOTH AREA. ZONE 3 (Z3) FUTURE BEACH BOARDWALK AREA. ALL ZONES SHALL BE USABLE INDEPENDENTLY AS VIRTUAL INDEPENDENT SYSTEMS, OR COMBINABLE WITH EACH OTHER AS ONE SINGLE SYSTEM. ALL COMBINATION CONFIGURATIONS SHALL BE STORED AS QUICK ACCESS PRESETS THAT ARE RECALLABLE LOCALLY VIA THE CS TVP, WITH OTHER KEY FUNCTIONS THAT SHALL INCLUDE VOLUME, MUTE & SOURCE SELECTION ALSO ADDRESSABLE VIA THE CS TVP. THERE SHALL BE AN ADDITIONAL TVP & IO AT THE HEAD END AUDIO RACK. ALL TVP & IO SHALL BE 100% DIGITAL USING CAT5 CABLE. ALL FUNCTIONS & SYSTEM FUNCTIONS SHALL BE CUSTOM PROGRAMMED BY CONTRACTOR TO MEET DESIRED USER FUNCTIONALITY.
4. ALL SPEAKERS SHALL BE HIGH QUALITY OUTDOOR IP68 RATED. THE SPEAKERS SHALL BE TWO-WAY STYLE FEATURING A MIDHIGH FREQUENCY DRIVER, A TWEETER, A COMPRESSION DRIVER & HORN IN A COAXIAL DESIGN. Z-1 SPEAKERS SHALL BE MOUNTED ON DESIGNATED LIGHTING PISOLS AS SHOWN. Z-2 SPEAKERS SHALL BE MOUNTED ON TICKET BOOTH STRUCTURE. SPEAKER TYPE & DESIGNATION:
 - A. POOL AREA: TYPE SP1
 - B. BEACH MAIN TICKET BOOTH: TYPE SP2
5. HIGH-END DIGITAL SIGNAL PROCESSOR (DSP) WITH ANALOG & COBRANET DIGITAL INPUT & OUTPUT (IO) PROTOCOL. SHALL PROVIDE ALL CENTRAL SYSTEM AUDIO FUNCTIONS INCLUDING BUT NOT LIMITED TO ZONE COMBINING & DE-COMBINING, INPUT SOURCE SELECTION & VOLUME LEVEL, GENERAL SYSTEM PROCESSING, PROCESSING OF INDIVIDUAL I/O SIGNAL, INCLUDING FUNCTIONALITY, CUSTOM USER INPUT, EQ, DELAY, COMPRESSION & LIMITING, MASTER VOLUME LEVEL, GENERAL MIXER FUNCTIONS ETC. ALL DSP FUNCTIONS SHALL BE CUSTOM PROGRAMMED TO MEET DESIRED USER FUNCTIONALITY. ONCE PROGRAMMED, DSP FUNCTION SHALL BE CONTROLLED BY CS TVPS.
6. OUTDOOR CS WEATHER RATED NEMA BOX SHALL HOUSE SYSTEM CONTROL ACCESS & SHALL INCLUDE ONE TVP & ONE IO PANEL. QUICK ACCESS CONTROL FUNCTIONS SHALL BE VIA CRESTRON CONTROL SYSTEM TVP'S & OPTIONAL WIRELESS DEVICES.
7. THE AUDIO HEAD-END RACK SHALL HOUSE ALL AMPLIFIERS, DIGITAL SIGNAL PROCESSING, CONTROL PROCESSOR, DSP, DIGITAL & ANALOG I/O, & MISCELLANEOUS PERIPHERALS. IT SHALL BE LOCATED IN THE NORTH IF CLOSET, ROOM 123.
8. SPEAKER POLE MOUNT: CANTILEVER ARM POLE MOUNT SYSTEM; THE POLE MOUNT SHALL BE SECURED TO THE POLE WITH A 3/16" RIGGING RATED STAINLESS CHAIN IN HIGH PRESSURE UV RATED RUBBER HOSE. POLE MOUNTING SYSTEM SHALL BE DESIGNED TO BE ATTACHED TO POLES AS SMALL AS 4" IN DIAMETER. THE CHAIN TENSION SHALL BE ADJUSTABLE USING THE CHAIN CROSS BOLT CARRIER; THE POLE MOUNT BODY SHALL BE ISOLATED FROM THE POLE VIA HIGH PRESSURE UV RATED RUBBER HOSE. THE POLE MOUNT SHALL HAVE UPPER AND LOWER MOUNTING POSITIONS THAT SHALL ACCEPT 1/2" INCH MOUNTING HARDWARE. THE WALL SHALL BE 120 LBS. STATIC LOAD. THE POLE MOUNT SHALL BE 13 2/3" (347.1 MM) LONG, 6 1/2" (165.1 MM) HIGH, AND 3" (76.2 MM) WIDE. THE POLE MOUNT SHALL WEIGH 9.9 LBS (4.5 KG). PROVIDE POLAR FOCUS PM2-10-Z WITH POLAR FOCUS MOUNTING HARDWARE OR APPROVED EQUAL.

AUDIO SYSTEM MATERIALS

1. SPEAKER SP1: ALL WEATHER HIGH OUTPUT SPEAKERS WITH 200 WATT LONG TERM POWER HANDLING & 70.7 VOLT TRANSFORMER LINE CAPABILITY WITH TAPS OF 70V, 200W, 100W, 50W, 25W 100V/ 200W, 100W, 50W & 117 DB/200W TAP. SPEAKERS SHALL MEET OR EXCEED ENVIRONMENTAL: IP68 PER IEC529, WITH A MINIMUM 5° DOWNWARD AIMING ANGLE, EXCEEDS MIL SPEC 810 FOR HUMIDITY, SALT SPRAY, TEMPERATURE & UV, AND ASTM G85 FOR SALT SPRAY (168 HRS). COVERAGE: PATTERN OF 100 X 120 DEGREES; FREQUENCY RANGE: (-10 DB); 80 HZ - 20 KHZ & FREQUENCY RESPONSE: (+3 DB); 100 HZ - 20 KHZ; 8" WOOFER KEVLAR-REINFORCED CONE WITH WEATHER TREATMENT; 50 MM (2 IN) VOICE COIL; 25 MM (1 IN) DIAPHRAGM AND VOICE COIL DIAMETER, HIGH TEMPERATURE POLYMER DIAPHRAGM, PATENTED DESIGN, FLUID-COOLING FOR MID & HIGH FREQUENCIES; CROSSOVER NETWORK: 1.5 KHZ, 3RD ORDER (18 DB/OCT) HIGH-PASS PLUS CONJUGATE TO HF; 2" ORDER LOW-PASS TO LF; ENCLOSURE SHALL BE ABS WITH GLASS ENCLOSURE; GRILLE SHALL BE CORROSION-RESISTANT ZINC-RICH EXTRA-THICK POWDER COATED STEEL GRILLE; 3-LAYER ASSEMBLY WITH FOAM AND WOVEN POLY MESH BACKING; CE-COMPLIANT COVERED BARRIER STRIP TERMINALS, BARRIER TERMINALS ACCEPT UP TO 8 MM OUTSIDE 4 MM INSIDE OPEN-LUG (W OR W) PLUS BARE WIRE UP TO 2.5 MM2 (12 AWG) WIRE OR SPADE LUGS. TERMINAL COMPARTMENT COVER EQUIPPED WITH GLAND NUT THAT FORMS WATER-TIGHT SEAL, WITH ROUND JACKETED CABLES WITH OUTSIDE DIAMETERS BETWEEN 4.0 MM (0.157") AND 9.0 MM (0.354"). TWO M10 (FINE-THREAD) POINTS FOR INCLUDED U-BRACKET. M6 SECONDARY SAFETY ATTACHMENT POINT ON BACK PANEL. OVERALL DIMENSIONS 300 X 300 X 305 MM (11.8 X 11.8 X 12.0); CABINET: NET WEIGHT: 9.8 KG (21.5 LB), 11.6 KG (25.5 LB) WITH U-BRACKET; INCLUDED ACCESSORIES: U-BRACKET, MATCHES LOUDSPEAKER COLOR (GRAY OR BLACK), ZINC-RICH EXTRA THICK POWDER COATED, STEEL. ALL SPEAKERS & MOUNTING HARDWARE SHALL BE CUSTOM PAINTED GREEN BY CONTRACTOR TO MATCH LIGHT POLES & FENCING. PAINT MUST BE NEAT WITH NO DRIPS. HOLES IN SPEAKER GRILLE MUST NOT BE BLOCKED OR COLORED OR REDUCED IN SIZE. SPEAKER GRILLES MUST BE REMOVED FOR PAINTING & RE-INSTALLED ON SPEAKERS WHEN PAINT HAS FULLY DRIED. PROVIDE JBL AWC82 OR APPROVED EQUAL.
2. SPEAKER SP2: ALL WEATHER HIGH OUTPUT SPEAKERS WITH 250 WATT LONG TERM POWER HANDLING & 70.7 VOLT TRANSFORMER LINE CAPABILITY WITH TAPS OF 70V,

200W, 100W, 50W, 25W 100V/ 200W, 100W, 50W & 117 DB/200W TAP. SPEAKERS SHALL MEET OR EXCEED IP68 WEATHER RESISTANCE RATING; COVERAGE: PATTERN OF 30 X 90 DEGREES; FREQUENCY RANGE: (-10 DB); 55 HZ - 20 KHZ & FREQUENCY RESPONSE (+3 DB); 80 HZ - 20 KHZ; 12" WOOFER KEVLAR-REINFORCED CONE WITH WEATHER TREATMENT; 75 MM (3 IN) VOICE COIL; 25 MM (1 IN) DIAPHRAGM AND VOICE COIL DIAMETER, HIGH TEMPERATURE POLYMER DIAPHRAGM, PATENTED DESIGN, FLUID-COOLING FOR MID & HIGH FREQUENCIES; CROSSOVER NETWORK: 1.5 KHZ, 3RD ORDER (18 DB/OCT) HIGH-PASS PLUS CONJUGATE TO HF; 2" ORDER LOW-PASS TO LF; ENCLOSURE SHALL BE ABS WITH GLASS ENCLOSURE HEAVILY BRACED; GRILLE SHALL BE CORROSION-RESISTANT ZINC-RICH EXTRA-THICK POWDER COATED STEEL GRILLE; 3-LAYER WITH FOAM AND WOVEN POLY MESH BACKING; CE-COMPLIANT COVERED BARRIER STRIP TERMINALS, BARRIER TERMINALS ACCEPT UP TO 10 MM OUTSIDE 4 MM INSIDE OPEN-LUG (W OR W) PLUS BARE WIRE UP TO 2.5 MM2 (12 AWG) WIRE OR SPADE LUGS. TERMINAL COMPARTMENT COVER EQUIPPED WITH GLAND NUT THAT FORMS WATER-TIGHT SEAL, WITH ROUND JACKETED CABLES WITH OUTSIDE DIAMETERS BETWEEN 4.0 MM (0.157") AND 9.0 MM (0.354"). TWO M10 (FINE-THREAD) POINTS FOR INCLUDED U-BRACKET. M6 SECONDARY SAFETY ATTACHMENT POINT ON BACK PANEL. OVERALL DIMENSIONS 402 X 402 X 445 MM (15.8 X 15.8 X 17.5); CABINET: 15.9 KG (35.0 LB), 18.9 KG (41.5 LB) WITH U-BRACKET; INCLUDED ACCESSORIES: U-BRACKET, MATCHES LOUDSPEAKER COLOR (GRAY OR BLACK), ZINC-RICH EXTRA THICK POWDER COATED, STEEL. ALL SPEAKERS & MOUNTING HARDWARE SHALL BE CUSTOM PAINTED GREEN BY CONTRACTOR TO MATCH LIGHT POLES & FENCING. PAINT MUST BE NEAT WITH NO DRIPS. HOLES IN SPEAKER GRILLE MUST NOT BE BLOCKED OR COLORED OR REDUCED IN SIZE. SPEAKER GRILLES MUST BE REMOVED FOR PAINTING & RE-INSTALLED ON SPEAKERS WHEN PAINT HAS FULLY DRIED. PROVIDE JBL AWC129 OR APPROVED EQUAL.

AUDIO AMPLIFIER TYPE 1: 8 CHANNEL AMPLIFIER WITH DIRECT DRIVE "CONSTANT VOLTAGE" CAPABILITY ON A CHANNEL BY CHANNEL BASIS FOR 70V RMS OR 100V RMS AMPLIFICATION; EIGHT CHANNEL UNITS FEATURING 70 VOLT, 8, 4 OR 2 OHM OUTPUT. EACH CHANNEL SHALL PROVIDE 300 WATTS RMS AT 4, 8 OHMS 70.7V OR 100V PER CHANNELS; DAMPING FACTOR (20HZ TO 10KHZ) >1000; LOAD IMPEDANCE BRIDGE MODE 40 - 160, 140V RMS AND 200V RMS; INPUT IMPEDANCE (COMMON BALANCE UNBALANCED) 10KΩ, 5KΩ, FREQUENCY RESPONSE (80, 20KHZ - 20KHZ) 0.5%20B; TOTAL HARMONIC DISTORTION AT FULL RATED POWER, 20HZ - 20KHZ) 0.35%; 2U RACK SPACE FORM FACTOR; WEIGHT: 23.5 LBS (10.6 KG); 2 RU AMPLIFIERS SHALL BE RATED TO RUN CONTINUOUSLY UNDER COMMERCIAL CONDITIONS; PROVIDE CROWN DCI 8/300 OR APPROVED EQUAL.

3. DIGITAL SIGNAL PROCESSING (DSP): FLOATING-POINT DSP ENGINE; MANY AUDIO ALGORITHMS; SCALABLE I/O ARCHITECTURE WITH FOUR NI0 SERIES CARD BAYS; LOW-LATENCY AUDIO PERFORMANCE; INTEGRATED, MODULAR DATA I/O NETWORK-CENTRIC ARCHITECTURE; SUPPORTS CENTRALIZED, DISTRIBUTED OR HYBRID PROCESSING INFRASTRUCTURE; INTEGRATED SERIAL SUPPORT; FRONT PANEL INTERFACE WITH INTUITIVE USER INPUT CONTROLS; ROBUST EMBEDDED LINUX SYSTEM PROCESSOR/CONTROLLER; INTEGRATED FLASH-BASED STORAGE; WINDOWS-BASED CONFIGURATION AND CONTROL CLIENT; FULL SUPPORT FOR SNMP NETWORK MANAGEMENT TOOLS; UNIVERSAL INDUSTRIAL-GRADE POWER SUPPLY; SOFTWARE SUPPORT FOR LARGE-SCALE MULTIMEDIA SYSTEMS; ADVANCED DSP COMPILER; CONFIGURABLE GPIO WITH OPTIONAL DIN RAIL EURO BREAKOUT PANEL; TRANSPARENT CONTROL GROUPING ACROSS PHYSICAL NIONS AND BETWEEN INDEPENDENT SYSTEMS; SUPPORTS REDUNDANT, SELF-HEALING CONFIGURATIONS; STAND-ALONE, MULTIPLE, AND/OR DISTRIBUTED OPERATION; 32X32 DANTE TRANSPORT INCLUDED; ROBUST AIR HANDLING; FRONT PANEL AUDIO AND STATUS MONITORING; INTUITIVE USER INPUT; VISUAL COMMUNICATIONS STATUS; PROVIDE MEDIA MATRIX NI0N 80, NO SUBSTITUTIONS PERMITTED.

4. ANALOG OUTPUT CARD: 8 CHANNEL LINE LEVEL OUTPUT DEVICE FOR USE IN NION DSP FRAMES; MODULAR ANALOG AUDIO INPUT CARD AND ANALOG TO DIGITAL CONVERTER; 24-BIT A/D; 48 OR 96KHZ AUDIO SAMPLING RATE SUPPORTED; HIGH RELIABILITY DIN CONNECTOR TO BACKPLANE, USING SLIDE RAIL FOR ALIGNMENT; MINI-EURO CONNECTORS FOR EASY OUTPUT CONNECTION; PROVIDE MEDIA MATRIX NI0 80, NO SUBSTITUTIONS PERMITTED.

5. ANALOG INPUT CARD: 8 CHANNEL LINE LEVEL INPUT DEVICE FOR USE IN NION DSP FRAMES; MODULAR ANALOG AUDIO INPUT CARD AND ANALOG TO DIGITAL CONVERTER; EIGHT LINE LEVEL INPUT AUDIO CHANNELS; 48 OR 96KHZ AUDIO SAMPLING RATE SUPPORTED; HIGH RELIABILITY DIN CONNECTOR TO BACKPLANE, USING SLIDE RAIL FOR ALIGNMENT; MINI-EURO CONNECTORS FOR EASY INPUT CONNECTION; PROVIDE MEDIA MATRIX NI0 81, NO SUBSTITUTIONS PERMITTED.

6. DIGITAL INPUT PANELS: 2-GANG NEMA MOUNT COBRANET® INTERFACE PANEL WITH ONE FEMALE XLR AND ONE MINI-JACK INPUT & ONE MALE XLR AND ONE MINI-JACK OUTPUT; THE COBRANET AUDIO IS TRANSMITTED ACROSS THE LOCAL AREA SWITCHED NETWORK USING STANDARD ETHERNET CABLE; THE INPUT SIDE OF THE FRONT PANEL FEATURES AN XLR CONNECTOR WITH 12V PHANTOM POWER, THUS ACCOMMODATING BOTH DYNAMIC AND CONDENSER MICROPHONES; FOR THE INPUTS, THE STEREO MINI-JACK HAS THE LEFT AND RIGHT CHANNELS SUMMED TOGETHER AND PLACED ON THE FIRST COBRANET SUBCHANNEL WHILE THE XLR IS PLACED ON THE SECOND COBRANET SUBCHANNEL. OF THE TRANSMITTING BUNDLE; PROVIDE MEDIA MATRIX N-WALL 1.1, NO SUBSTITUTIONS PERMITTED.

7. ANALOG INPUT PANEL: DUAL XLR FEMALE PANEL, JACKS MOUNTED TO A SINGLE RECTANGULAR METAL PANEL, MOUNTABLE IN STANDARD SINGLE GANG ELECTRICAL BOX; BRUSHED ALUMINUM.

8. WIRELESS MICROPHONE: PORTABLE ANALOG UHF WIRELESS HAND HELD MICROPHONE SYSTEM SHALL PROVIDE WIRELESS FUNCTIONALITY, HAND HELD TRANSMITTER WITH SM58 ELEMENT, TWO AA BATTERIES WITH 14 HOUR LIFE, 123 RF CHANNELS; 24 MHZ RF BANDWIDTH; RF CHANNEL AUTO SCANNING; 300' LINE OF SIGHT TRANSMITTING DISTANCE; DYNAMIC RANGE: 100DB; RACK MOUNT OR TABLE TOP OPERATION; ONE AUDIO CHANNEL, ONE XLR BALANCED 3 PIN & ONE XLR UNBALANCED FEMALE I/O; 1 BACKLIGHT LCD DISPLAY; FREQUENCY RANGE OR 50KHZ TO 15 KHZ; 35.2 OZ WEIGHT; WITH 1 - WA571 SWIVEL ADAPTER; 1 - PS24 POWER SUPPLY; 1 - 3181856 THREAD ADAPTER; PROVIDE SHURE BLX24/SM58 OR APPROVED EQUAL.

9. HAND HELD MICROPHONE: DYNAMIC HAND HELD MIC; FREQUENCY RESPONSE 50 TO 15,000 HZ; CARDIOID POLAR PATTERN; SENSITIVITY (AT 1,000 HZ OPEN CIRCUIT VOLTAGE) -64.5 DBVPA (1.85 MV) 1 PA = 94 DB SPL; IMPEDANCE RATED IMPEDANCE IS 150 Ω (300 Ω ACTUAL); FOR CONNECTION TO MICROPHONE INPUTS RATED LOW IMPEDANCE; POLARITY POSITIVE PRESSURE ON DIAPHRAGM PRODUCES POSITIVE VOLTAGE ON PIN 2 WITH RESPECT TO PIN 3, CONNECTOR THREE-PIN PROFESSIONAL AUDIO CONNECTOR (MALE XLR TYPE); WEIGHT NET: 298 G; DIMENSIONS 162 MM L X 51 MM W; PROVIDE SHURE SM58 WITH MIC CABLE & CLIP.

10. MESSAGE REPEATERS/SCHEDULER: DIGITAL MESSAGE REPEATER; INSTANT PLAYBACK OF AUDIO VIA FRONT PANEL CONTROL AND SCREEN, OR SCHEDULE SOUNDS FOR AUTOMATIC UNATTENDED PLAYBACK VIA CALENDAR & CLOCK FUNCTION; REMOTELY MANAGED VIA INTERNET / LAN CONNECTION; UPLOAD OR DELETE AUDIO FILES, EDIT SCHEDULE, TRIGGER SOUND PLAYBACK OR RECORDING, MAKE AND UNASSIGNMENTS AND MORE USING STANDARD WEB BROWSER; WEB INTERFACE PASSWORD PROTECTED; 16 GB STORAGE, OVER 200 HOURS OF AUDIO; SOUNDS CAN BE REPEATED AND LOOPED AS PART OF A SCHEDULE; IT SHALL BE TECHNIQAD SCHEDULON 4.0 WITH OPTIONAL EUROBLOCK SCREW TERMINAL (BALANCED) OR APPROVED EQUAL.

11. NETWORK EQUIPMENT: PROVIDE SWITCHES, ROUTERS & ALL MISCELLANEOUS GEAR AS NEEDED TO FACILITATE NETWORK COMMUNICATION WITHIN & TO ALL ACS, COBRANET SYSTEMS & TO THE BUILDING'S LAN & WILDMAN & ANY ALL ELEMENTS OF THE ACS SYSTEM WHERE NECESSARY, PROVIDE NETGEAR, LINKSYS, CISCO OR APPROVED EQUAL.

12. CONTROL PROCESSOR: THE CONTROL PROCESSOR SHALL BE AN ENTERPRISE-CLASS CONTROL SYSTEM; TWO-SERIES80 CONTROL ENGINE - SUBSTANTIALLY FASTER AND MORE POWERFUL THAN OTHER CONTROL SYSTEMS; EXCLUSIVE MODULAR PROGRAMMING ARCHITECTURE; ONBOARD 512MB RAM & 4GB FLASH MEMORY; EXPANDABLE STORAGE UP TO 1TB; REAR PANEL MEMORY CARD SLOT; HIGH-SPEED USB 2.0 HOST PORT; INDUSTRY-TYPICAL STANDARD ETHERNET AND CRESTRON® WIRED COMMUNICATIONS; XPANEL WITH SMART GRAPHICS™ COMPUTER AND WEB BASED CONTROL; IPHONE®, IPAD®, AND ANDROID™ CONTROL APP SUPPORT; 1-SPACE RACK-MOUNTABLE PROVIDE CRESTRON CP3, NO SUBSTITUTIONS PERMITTED.

13. VIDEO TOUCH CONTROL PANEL: ULTRA CLEAN, MODERN APPEARANCE; THIN PROFILE AND SMALL FOOTPRINT; 7" WIDESCREEN ACTIVE-MATRIX COLOR DISPLAY; 1024 X 600 WSVGA DISPLAY RESOLUTION; CAPACITIVE TOUCH SCREEN TECHNOLOGY; MULTI-TOUCH CAPABLE; SMART GRAPHICS® PERFORMANCE; BACKLIT SOFT-TOUCH CAPACITIVE BUTTONS; ANY/ALL BUTTON HIDE FEATURE; AUTO-BRIGHTNESS CONTROL; VOICE RECOGNITION CAPABILITY; H.264 OR MJPEG STREAMING VIDEO DISPLAY; BUILT-IN 5 MP H.264 IP CAMERA; BUILT-IN MICROPHONE AND SPEAKERS; REMOTE SIP INTERCOM AND PHONE; TECHNOLOGY; NATIVE SONY APP - CRESTRON FUSIONS ROOM SCHEDULING; BUILT-IN PINPOINT™ BEACON; CUSTOMIZABLE AUDIO FEEDBACK; BUILT-IN WEB BROWSING; ON-SCREEN MULTI-LANGUAGE KEYBOARD; CUSTOMIZABLE SCREENSAVER; SINGLE-WIRE ETHERNET CONNECTIVITY; POE OR POE+ NETWORK POWERED; US, UK OR EUROPEAN ELECTRICAL WALL BOX MOUNTING; LECTERN MOUNT OVER A RECTANGULAR CUTOUT; RETROFIT AND MASONRY MOUNTING OPTIONS AVAILABLE; TABLETOP AND SWIVEL MOUNT OPTIONS AVAILABLE; AVAILABLE IN SMOOTH BLACK OR WHITE FINISH.

PROVIDE CRESTRON TSW670 WITH ALL NECESSARY ACCESSORIES, NO SUBSTITUTIONS PERMITTED.

14. RACKS: EQUIPMENT RACKS SHALL BE FLOOR STANDING, WELDED CONSTRUCTION STEEL, BLACK; 81.25" HEIGHT; 44 RACK SPACES (RU) OF 1.75" EACH; COLOR BLACK; PROVIDE WORK LIGHT IN EACH RACK; MOUNT RACK ON RUBBER MAT, IN UNFINISHED QUANTITY TO ACCOMMODATE ALL RELEVANT MANUFACTURER'S SPECIFICATIONS. IT SHALL INCLUDE SCREEN SHOTS OF GUI SCREENS & DIAGRAMS AS NECESSARY.

15. POWER CONDITIONERS: PROVIDE POWER CONDITIONING UNITS & UPS UNITS TO ALL NON-AMPLIFIER ELECTRONICS AT ALL LOCATIONS FOR ACS.

16. SPEAKER CABLE: ALL SPEAKER CABLES SHALL BE IN FOLIO CLEARANCE, 100% COPPER, OXYGEN FREE, WITH OVERALL PROTECTIVE JACKET. USE PLENUM CABLE WHERE REQUIRED BY CODE. PROVIDE BELDEN, CANARE, WEST PENN OR APPROVED EQUAL.

17. NETWORK CABLE: ALL NETWORK CABLE SHALL BE HIGH BANDWIDTH CAT6; SOLID CONDUCTORS; UNSHIELDED TWISTED PAIR IN OVERALL JACKET; USE PLENUM CABLE WHERE REQUIRED BY CODE; PROVIDE BELDEN, CANARE, WEST PENN OR APPROVED EQUAL.

18. NETWORK CABLE CONNECTORS: ALL NETWORK CONNECTORS SHALL BE RJ45 CRIMP CONNECTORS WITH BOOT; USE SHIELDED CONNECTORS WHEN NECESSARY.

AUDIO SYSTEM WIRING

1. ACS SUBCONTRACTOR SHALL GUARD AGAINST ELECTROMAGNETIC AND ELECTROSTATIC HUM. NO LOW Z (NON-AMPLIFIED) ANALOG WIRING SHALL BE PERMITTED OUTSIDE OF ADJACENT RACKS. ALL WIRING THROUGHOUT BUILDING LINKING SUB SYSTEMS OR PROVIDING PROGRAM MATERIAL SHALL BE DIGITAL VIA CAT5 CABLE.
2. LOW Z CABLEING & SPEAKER CABLEING SHALL BE RUN AT A MINIMUM OF 12" FROM ELECTRICAL POWER CABLES & CONDUITS; IF IT IS UNAVOIDABLE FOR LOW Z CABLEING TO CROSS ELECTRICAL POWER CABLES, THEY SHALL CROSS AT 90 DEGREES. LOW Z CABLEING SHALL NEVER BE RUN OVERHEAD OR IN ELECTRICAL POWER CABLES AT LESS THAN A 12" DISTANCE AT ANY POINT. LOW Z CABLES SHALL NEVER BE IN CONDUIT WITH ELECTRICAL CABLES.
3. CABLES OF DIFFERENT SIGNALS OR DIFFERENT LEVELS SHALL BE SEPARATED, ORGANIZED, AND ROUTED TO RESTRICT CHANNEL CROSSTALK OR FEEDBACK OSCILLATION IN RACKS; KEEP WIRING SEPARATED INTO GROUPS FOR MICROPHONE LEVEL CIRCUITS, LINE LEVEL CIRCUITS, LOUDSPEAKER CIRCUITS, AND POWER CIRCUITS.
4. CONNECT CABLE TO ACTIVE COMPONENTS USING APPROPRIATE MFG APPROVED CONNECTORS. FOR SCREW TERMINAL CONNECTIONS, USE SPARE LUGS OF APPROPRIATE SIZE. MAKE CONNECTOR CONNECTIONS TO SPEAKER TRANSFORMERS WITH PROPERLY SIZED CLOSED END CONNECTORS CRIMPED WITH FACTORY APPROVED RATCHET TYPE TOOL. WIRE NUT OR "SCOTCHLOCK" CONNECTORS ARE NOT ACCEPTABLE. DO NOT WRAP AUDIO CABLE SPLICES OR CONNECTIONS WITH ADHESIVE BACKED TAPE.
5. WIRING SHALL BE IN STRICT ADHERENCE TO "STANDARD BROADCAST PRACTICES;" AS EXCEPTED FROM "RECOMMENDED WIRING PRACTICES", SOUND SYSTEM ENGINEERING, (2ND EDITION), D. DAVIS, AND PERFORMED IN ACCORDANCE WITH STANDARD PROFESSIONAL PRACTICE.
6. RUN VERTICAL WIRING NEATLY IN BUNDLES FIXED TO THE INSIDE OF RACK USING APPROPRIATE WIRE MANAGEMENT HARDWARE. HORIZONTAL WIRING IN RACK SHALL BE NEATLY FIRED IN MANAGEABLE BUNDLES WITH CABLE LENGTHS CUT TO EXACT LENGTH BUT STILL ALLOW FOR SERVICE AND TUNING. PROVIDE HORIZONTAL SUPPORT BARS IF CABLE BUNDLES SAG. NEATLY BUNDLE EXCESS AC POWER CABLE FROM RACK MOUNTED EQUIPMENT WITH PLASTIC CABLE TIES. RACK WIRING TO BE BUNDLED WITH PLASTIC CABLE TIES OR LACING TWINE. ELECTRICAL TAPE AND ADHESIVE BACKED CABLE TIE ANCHORS ARE NOT ACCEPTABLE.
7. LOUDSPEAKERS SHALL BE WIRED ELECTRICALLY IN PHASE, USING THE SAME WIRE COLOR CODE FOR SPEAKER WIRING THROUGHOUT.
8. WIRING AND CONNECTIONS SHALL BE COMPLETELY VISIBLE AND LABELED IN RACK.
9. ALL COPPER NETWORK CABLE RUNS SHALL BE TESTED FOR CONTINUITY; CAT6 SHALL BE TESTED & CERTIFIED FOR CONTINUITY & BANDWIDTH. THEY SHALL MEET TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) OR INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO) STANDARDS, USING A CERTIFICATION TESTING TOOL, WHICH SHALL PROVIDE "PASS" OR "FAIL" INFORMATION. THIS SHALL INCLUDE TESTING FOR WIREMAP, PROPAGATION DELAY, DELAY SKEW, CABLE LENGTH, INSERTION LOSS (IL), RETURN LOSS (RL), NEAR-END CROSSTALK (NEXT), POWER SUM NEXT (PSNEXT), EQUAL-LEVEL FAR-END CROSSTALK (ELFEXT), POWER SUM ELFEXT (PSELFEXT), ATTENUATION-TO-CROSSTALK RATIO (ACR), POWER SUM ACR (PSACR) & ONE-TO-ONE NEXT (NEXT). MEASUREMENTS MAY BE REQUIRED FOR VARIOUS APPLICATIONS; ALL MEASUREMENTS SHALL BE ENTERED INTO A CABLEING LOG WITH THE DATE THE MEASUREMENT WAS RECORDED, CABLE ID NUMBER, & THE RESULTS INCLUDING MAXIMUM BANDWIDTH ACHIEVED. FOR EACH CABLE TESTED.
10. ALL FIBER OPTIC CABLES SHALL BE TESTED & SHALL MEET TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) OR INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO) STANDARDS USING THE INSERTION LOSS METHOD OR THE REFERENCE METHOD. MEASUREMENTS SHALL BE ENTERED INTO A CABLEING LOG WITH THE DATE THE MEASUREMENT WAS RECORDED, CABLE ID NUMBER, & THE RESULTS INCLUDING MAXIMUM BANDWIDTH ACHIEVED. FOR EACH CABLE TESTED.
11. ALL SPEAKER WIRE SHALL BE 10AWG; 100% COPPER; WRAPPED IN 100% FOIL SHIELDS; STRANDED; OXYGEN FREE; WITH OVERALL PROTECTIVE PVC JACKET. USE PLENUM CABLE WHERE REQUIRED BY CODE. ALL SPEAKER CABLES SHALL BE TESTED FOR CONTINUITY. ALL MEASUREMENTS SHALL BE ENTERED INTO A CABLEING LOG WITH THE DATE THE MEASUREMENT WAS RECORDED, CABLE ID NUMBER, & THE RESULTS INCLUDING MAXIMUM BANDWIDTH ACHIEVED. FOR EACH CABLE TESTED.
12. ACS SUBCONTRACTOR SHALL PREPARE FULL CABLEING EQUIPMENT RACK(S) AND FULLY WIRE AND TEST IN CONTRACTOR'S SHOP BEFORE DELIVERY TO JOB SITE. IF FIELD CONDITIONS PREVENT PRIOR ASSEMBLY OF RACKS, NOTIFY CONSULTANT IN WRITING THAT RACKS WILL BE FABRICATED ON SITE AND THE REASONS FOR THE CHANGE.

A. RACKS LOCATED ON CONCRETE FLOORS IN EQUIPMENT ROOMS OR NON-FINISHED SPACE SHALL BE MOUNTED ON RUBBER MATS.

B. PROVIDE IN-RACK VENTILATION AS NECESSARY TO PREVENT OVERHEATING OF ACS EQUIPMENT; OVERALL ROOM HVAC PROVIDED BY OTHERS.

C. VIEWING RACK FROM THE REAR, LOCATE AC POWER, DIGITAL CONTROL, DC CONTROL, AND SPEAKER WIRING ON THE LEFT; MICROPHONE, LINE LEVEL AUDIO, AND VIDEO WIRING ON THE RIGHT; PANELS OR EQUIPMENT MOUNTED ON THE REAR RACK RAILS SHALL NOT BLOCK ACCESS TO ANY FRONT MOUNTED COMPONENTS.

D. ANALOG WIRING SHALL BE PERMITTED WITHIN RACK(S) & BETWEEN ADJACENT RACKS.

13. ANY LOW VOLTAGE WIRING INSTALLED FOR THE AUDIO SYSTEM, SHALL BE PROPERLY LABELED WITHIN RACK(S) AND EQUIPMENT. CABLES SHALL BE LOGICALLY, LEGIBLY AND PERMANENTLY LABELED FOR EASY IDENTIFICATION.

14. PROVIDE A MINIMUM OF TWO SPARE OUTLETS IN EACH RACK. LABEL EACH OUTLET AS TO WHICH AC CIRCUIT IS FEEDING IT AND PROVIDE THE SAME INFORMATION IN THE CIRCUIT BREAKER PANEL.

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TECHNICAL PERSONNEL ON THE USE AND OPERATION OF ACS SYSTEMS, SCHEDULED AS ONE SESSION, BY AN INSTRUCTOR(S) FULLY KNOWLEDGEABLE AND QUALIFIED IN SYSTEMS OPERATION. THE SYSTEM REFERENCE MANUALS SHOULD BE COMPLETE AND ON SITE AT THE TIME OF THIS INSTRUCTION. THIS TRAINING SESSION MAY BE VIDEO RECORDED BY THE OWNER.

6. ASSISTANCE: THE CHIEF ENGINEER, HEAD TECHNICIAN OR PROJECT MANAGER FOR THE PROJECT INSTALLATION, KNOWLEDGEABLE IN ALL AREAS OF SYSTEM FUNCTION & OPERATION SHALL BE PRESENT AT THE FIRST USE OF THE SYSTEMS & SHALL BE PREPARED TO ASSIST OWNER'S STAFF AS NEEDED. INSURING CORRECT SYSTEM USAGE, & TO FINE TUNE EQ & VOLUME SETTINGS AS NECESSARY.

7. NETWORK CABLE: ALL NETWORK CABLE SHALL BE HIGH BANDWIDTH CAT6; SOLID CONDUCTORS; UNSHIELDED TWISTED PAIR IN OVERALL JACKET; USE PLENUM CABLE WHERE REQUIRED BY CODE; PROVIDE BELDEN, CANARE, WEST