Attachment A

Contract Drawings



	1Ø 120V - 277V BRANCH CIRCUIT SCHEDULES													
	TABLE	G: BRANCH CIRCUITS 1Ø WITH			TABLE H: BRANCH CIRCUITS 1Ø									
	GC "	'NEUTRAL" & WITH GRD EGC			GC "NEUTRAL & ISO GRD IG & GRD EG	0								
CKT	PWR	STR Cu THWN-2	COND	PWR	STR Cu THWN-2	COND								
AMPS	TAG	AWG - Kcmil	SIZE	TAG	AWG - Kcmil	SIZE								
20	1G	2 #12 & 1 #12 EGC	3/4"	1H	2 #12 & 2 #12 IG & EGC	3/4"								
30	2G	2 #10 & 1 #10 EGC	3/4"	2H	2 #10 & 2 #10 IG & EGC	3/4"								
40	3G	2 #8 & 1 #10 EGC	1"	3H	2 #8 & 2 #8 IG & EGC	1"								
55	4G	2 #6 & #10 EGC	1"	4H	2 #6 & 2 #6 IG & EGC	1"								
70	5G	2 #4 & 1 #8 EGC	1"	5H	2 #4 & 2 #4 IG & EGC	1"								
85	6G	2 #3 & #8 EGC	1.5"	6H	2 #3 & 2 #3 IG & EGC	1.5"								
95	7G	2 #2 & 1 #8 EGC	1.5"	7H	2 #2 & 2 #2 IG & EGC	1.5"								
130	8G	2 #1 & 1 #6 EGC	1.5"	8H	2 #1 & 2 #1 IG & EGC	1.5"								
150	9G	2 #1/O & 1 #6 EGC	2"	9H	2 #1/O & 2 #1/O IG & EGC	2"								
175	10G	2 #2/O & 1 #6 EGC	2"	10H	2 #2/O & 2 #2/O IG & EGC	2"								
200	11G	2 #3/O & 1 #6 EGC	2"	11H	2 #3/O & 2 #3/O IG & EGC	2"								
230	12G	4 #4/O & 1 #4 EGC	2.5"	12H	NA	NA								
255	13G	4 #250 & 1 #4 EGC	2.5"	13H	NA	NA								
310	14G	4 #350 & 1 #4 EGC	3"	14H	NA									
335	15G	4 #400 & 1 #4 EGC	3"	15H NA N										
380	380 16G 4 #500 & 1 #3 EGC 4" 16H NA													

ASHRAE 90.1 REQUIRES METERS IN COMMERICAL BUILDINGS TO MONITOR THE FOLLOWING SEPARATELY:

				DULE UP TO) 1,200A										
	T	ABLE A: FEEDER-BRANCH CIRCUITS 3Ø 3W			TABLE B: FEEDER-BRANCH CIRCUITS 3Ø			TABLE C: FEEDER-BRANCH CIRCUITS 1	Ø 2W		TABLE D: FEEDER-BRANCH CIRCUITS 1Ø 3	W		TABLE N: SERVICE ENTRA	ANCE
	N	O GC "NEUTRAL" AND WITH "GROUND" EGC			4W WITH GC "NEUTRAL" & "GROUND" EGO	0		NO GC "NEUTRAL" AND WITH GRD EG	GC		WITH GC "NEUTRAL" AND WITH GRD EGO	;		3Ø 4W WITH GC "NEUTR	AL"
СКТ	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu XHHW-2	COND
AMPS	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	AWG - Kcmil	SIZE
20	1A	3 #12 & 1 #12 EGC	3/4"	1B	4 #12 & 1 #12 EGC	3/4"	1C	2 #12 & 1 #12 EGC	3/4"	1D	3 #12 & 1 #12 EGC	3/4"	1N	NA	NA
30	2A	3 #10 & 1 #10 EGC	3/4"	2B	4 #10 & 1#10 EGC	3/4"	2C	2 #10 & 1 #10 EGC	3/4"	2D	3 #10 & 1#10 EGC	3/4"	2N	NA	NA
40	3A	3 #8 & 1 #8 EGC	3/4"	3B	4 #8 & 1 #8 EGC	3/4"	3C	2 #8 & 1 #8 EGC	3/4"	3D	3 #8 & 1 #8 EGC	3/4"	3N	NA	NA
55	4A	3 #6 & 1 #8 EGC	3/4"	4B	4 #6 & 1 #8 EGC	1"	4C	2 #6 & 1 #8 EGC	3/4"	4D	3 #6 & 1 #8 EGC	1"	4N	NA	NA
70	5A	3 #4 & 1 #8 EGC	1"	5B	4 #4 & 1 #8 EGC	1.5"	5C	2 #4 & 1 #8 EGC	1"	5D	3 #4 & 1 #8 EGC	1"	5N	NA	NA
85	6A	3 #3 & 1 #8 EGC	1"	6B	4 #3 & 1 #8 EGC	1.5"	6C	2 #3 & 1 #8 EGC	1"	6D	3 #3 & 1 #8 EGC	1.5"	6N	4 #3	1.5"
95	7A	3 #2 & 1 #6 EGC	1"	7B	4 #2 & 1 #8 EGC	1.5"	7C	2 #2 & 1 #6 EGC	1.5"	7D	3 #2 & 1 #6 EGC	1.5"	7N	4 #2	1.5"
130	8A	3 #1 & 1 #6 EGC	1.5"	8B	4 #1 & 1 #6 EGC	1.5"	8C	2 #1 & 1 #6 EGC	1.5"	8D	3 #1 & 1 #6 EGC	1.5"	8N	4 #1	1.5"
150	9A	3 #1/O & 1 #6 EGC	1.5"	9B	4 #1/O & 1 #6 EGC	2"	9C	2 #1/O & 1 #6 EGC	1.5"	9D	3 #1/O & 1 #6 EGC	1.5"	9N	4 #1/O	2"
175	10A	3 #2/O & 1 #6 EGC	1.5"	10B	4 #2/O & 1 #6 EGC	2"	10C	2 #2/O & 1 #6 EGC	1.5"	10D	3 #2/O & 1 #6 EGC	2"	10N	4 #2/O	2"
200	11A	3 #3/O & 1 #6 EGC	1.5"	11B	4 #3/O & 1 #6 EGC	2"	11C	#2/O & 1 #6 EGC	1.5"	11D	3 #3/O & 1 #6 EGC	2"	11N	4 #3/O	2"
230	12A	3 #4/O & 1 #4 EGC	2"	12B	4 #4/O & 1 #4 EGC	2.5"	12C	2 #4/O & 1 #4 EGC	2"	12D	3 #4/O & 1 #4 EGC	2"	12N	4 #4/O	2.5"
255	13A	3 #250 & 1 #4 EGC	2.5"	13B	4 #250 & 1 #4 EGC	2.5"	13C	2 #250 & 1 #4 EGC	2"	13D	3 #250 & 1 #4 EGC	2.5"	13N	4 #250	2.5"
310	14A	3 #350 & 1 #4 EGC	3"	14B	4 #350 & 1 #4 EGC	3"	14C	2 #250 & 1 #4 EGC	2.5"	14D	3 #350 & 1 #4 EGC	2.5"	14N	4 #350	3"
335	15A	3 #400 & 1 #3 EGC	3"	15B	4 #400 & 1 #4 EGC	3"	15C	2 #400 & 1 #3 EGC	3"	15D	3 #400 & 1 #4 EGC	3"	15N	4 #400	3"
380	16A	3 #500 & 1 #3 EGC	3.5"	16B	4 #500 & 1 #3 EGC	4"	16C	2 #500 & 1 #3 EGC	3"	16D	3 #500 & 1 #3 EGC	3.5"	16N	4 #500	3.5"
420	17A	3 #600 & 1 #3 EGC	4"	17B	4 #600 & 1 #3 EGC	4"	17C	2 #600 & 1 #3 EGC	4"	17D	3 #600 & 1 #3 EGC	4"	17N	4 #600	4"
460	18A	2 Sets 3 #4/O & 1 #2 EGC	2" EA	18B	2 Sets 4 #4/O & 1 #2 EGC	2.5" EA	18C	2 Sets 2 #4/O & 1 #2 EGC	2" EA	18D	2 Sets 3 #4/O & 1 #2 EGC	2" EA	18N	2 Sets 4 #4/O	2.5" EA
510	19A	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19B	2 Sets 4 #250 & 1 #2 EGC	2.5" EA	19C	2 Sets 2 #250 & 1 #2 EGC	2" EA	19D	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19N	2 Sets 4 #250	2.5" EA
620	20A	2 Sets 3 #350 & 1 #1 EGC	3" EA	20B	2 Sets 4 #350 & 1 #1 EGC	3" EA	20C	2 Sets 2 #350 & 1 #1 EGC	2.5" EA	20D	2 Sets 3 #350 & 1 #1 EGC	2.5" EA	20N	2 Sets 4 #350	3" EA
670	21A	2 Sets 3 #400 & 1 #1/O EGC	3" EA	21B	2 Sets 4 #400 & 1 #1/O EGC	3" EA	21C	2 Sets 2 #400 & 1 #1/O EGC	3" EA	21D	2 Sets 3 #400 & 1 #1/O EGC	3" EA	21N	2 Sets 4 #400	3" EA
690	22A	3 Sets 3 #4/O & 1 #1/O EGC	3" EA	22B	3 Sets 4 #4/O & 1 #1/O EGC	2.5" EA	22C	3 Sets 2 #4/O & 1 #1/O EGC	2" EA	22D	3 Sets 3 #4/O & 1 #1/O EGC	2" EA	22N	3 Sets 4 #4/O	2.5" EA
840	23A	2 Sets 3 #600 & 1 #1/O EGC	3.5" EA	23B	2 Sets 4 #600 & 1 #1/O EGC	4" EA	23C	2 Sets 2 #600 & 1 #1/O EGC	3.5" EA	23D	2 Sets 3 #600 & 1 #1/O EGC	3.5" EA	23N	2 Sets 4 #600	4" EA
1005	24A	3 Sets 3 #400 & 1 #2/O EGC	3" EA	24B	3 Sets 4 #400 & 1 #2/O EGC	3" EA	24C	3 Sets 2 #400 & 1 #2/O EGC	3" EA	24D	3 Sets 3 #400 & 1 #2/O EGC	3" EA	24N	3 Sets 4 #400	3" EA
1020	25A	4 Sets 3 #250 & 1 #2/O EGC	3" EA	25B	4 Sets 4 #250 & 1 #2/O EGC	2.5" EA	25C	4 Sets 2 #250 & 1 #2/O EGC	2" EA	25D	4 Sets 3 #250 & 1 #2/O EGC	2.5" EA	25N	4 Sets 4 #250	2.5" EA
1140	26A	3 Sets 3 #500 & 1 #3/O EGC	3" EA	26B	3 Sets 4 #500 & 1 #3/O EGC	3.5" EA	26C	3 Sets 2 #500 & 1 #3/O EGC	3" EA	26D	3 Sets 3 #500 & 1 #3/O EGC	3.5" EA	26N	3 Sets 4 #500	3.5" EA
1240	27A	4 Sets 3 #350 & 1 #3/O EGC	3" EA	27B	4 Sets 4 #350 & 1 #4/O EGC	3" EA	27C	4 Sets 2 #350 & 1 #3/O EGC	2.5" EA	27D	4 Sets 3 #350 & 1 #4/O EGC	2.5" EA	27N	4 Sets 4 #350	3" EA

DIAGRAMS
SHEET NUMBER:
E400
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #:	2020
SCALE:	12" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	LL
CHECKED:	JC
DATE:	4/7/2023
SHEET NAM	E:
EI ECTI	RICAL RISER

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING **IMPROVEMENTS**

5800 Chester Ave Philadelphia, PA 19143

DESCRIPTION:

801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

LIGHTING DESIGN
The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644

COST ESTIMATING
Dharam Consulting

1719 Chestnut Street

Philadelphia, PA 19103 v 610.554.6560

ENVIRONMENTAL CONSULTANT Brightfields, Inc.

Suite 300

<u>MEP/FP ENGINEER</u> dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612

Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com

123 S. Broad St Suite 1130

<u>CIVIL ENGINEER</u> David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER David Mason & Associates

1515 Arch Street, 10th Floor Philadelphia, PA 19102 <u>ARCHITECT</u> DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com

<u>owner</u> City of Philadelphia

<u>CLIENT</u> REBUILD

1515 Arch Street Mezzanine Level Philadelphia, PA 19104

Department of Parks and Recreation

EMERGENCY CALL STATION RISER DIAGRAM 1 NTS



LIGHTNING PROTECTION SYSTEM. REFER TO SPEC SECTION 26 41 13.









1. ALL FIRE ALARM SYSTEMS (INITIATING, DETECTION, NOTIFICATION, RELAY MODULES, ETC.,) SHALL BE CLASS "B" WIRING. 2. ALL DEVICES AND EQUIPMENT SHOWN ON PLAN ARE FOR GENERAL LOCATION ONLY AND DO NOT NECESSARILY DEPICT ACTUAL LOCATION. FINAL LOCATION AND PLACEMENT OF DEVICES AND EQUIPMENT SHALL BE FULLY COORDINATED WITH ARCHITECT AND ALL TRADES AND LOCAL FIRE MARSHALL. REFER TO ARCH. DWGS FOR AESTHETIC INTENT. 3. ALL SIGNALING LINE CIRCUITS (SLC's) SHALL BE CLASS "B" WIRING METHOD. THESE CIRCUITS SHALL BE 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE

FIRE ALARM SYSTEM GENERAL NOTES:

NOTED. 4. ALL NOTIFICATION DEVICE/APPLIANCE CIRCUITS (NAC's) SHALL BE CLASS "B" WIRING METHOD. CONNECT THESE DEVICES WITH 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.

5. ALL INITIATING DEVICE CIRCUITS (IDC's) SHALL BE CLASS "B" WIRING METHOD. CONNECT THESE DEVICES WITH 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED. 6. FIRE ALARM SYSTEM INSTALLATION SHALL BE IN STRICT CONFORMANCE

WITH THE LATEST BUILDING CODE AND NFPA 72. 7. INSTALLATION MATERIALS (I.E. CONDUIT, WIRE, FITTINGS, HANGERS, AND STANDARD BOXES) SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. 8. ALL HORN/STROBE AND STROBE DEVICES SHALL BE MOUNTED AT A HEIGHT OF 80" A.F.F. OR 6" BELOW DROPPED CEILING, WHICHEVER IS LESS IN ACCORDANCE WITH ADA (AMERICANS WITH DISABILITIES ACT). REFER TO

ARCH. DWGS FOR LOCATIONS. 9. ALL MANUAL PULL STATIONS SHALL BE MOUNTED 48" A.F.F. TO CENTER OF DEVICE. REFER TO ARCH. DWGS FOR LOCATIONS.

10. FIRE ALARM CONTROL PANEL SHALL BE MOUNTED 6' TO THE TOP OF PANEL A.F.F. REFER TO ARCH. DWGS FOR LOCATIONS.

11. ALL FIRE ALARM SYSTEM CONDUITS SHALL BE FACTORY PAINTED RED AND SHALL BE NOT LESS THAN 3/4" EMT UNLESS OTHERWISE NOTED. 12. FIRE ALARM CONTROL PANEL SHALL BE CAPABLE OF MONITORING ALL DETECTION, INITIATION, NOTIFICATION AND CARBON MONOXIDE DEVICES.

13. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT. 14. MOUNT ALL HVAC DUCT MOUNTED SMOKE DETECTORS WITHIN THE MAIN

HEADER DUCT INSIDE THE BUILDING. DUCT DETECTORS MOUNTED ON THE EXTERIOR SIDE OF THE BUILDING SHALL NOT BE ACCEPTABLE. 15. ALL SECURED DOORS AT STAIRWELLS EQUIPPED WITH ELECTRIC DOOR

STRIKES SHALL UNLOCK UPON ACTIVATION OF FIRE ALARM SYSTEM WHERE APPLICABLE. PROVIDE SIGNAL WIRING IN CONDUIT AND ASSOCIATED HARDWARE, SOFTWARE, MODULES AND PROGRAMMING AS REQUIRED. 16. MAIN WATER FLOW SWITCH SHALL ACTIVATE ALARM BELLS.

17. PROVIDE FIRE ALARM MAPS COMPLETE WITH DEVICE ADDRESS TO EACH FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATOR PANEL LOCATION.

18. CONTRACTOR SHALL REFERENCE THE FIRE PROTECTION AND MECHANICAL DRAWINGS INCLUDING SHOP DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DETECTION DEVICES INCLUDING WATER FLOW SWITCHES, TAMPER SWITCHES, AND DUCT DETECTORS.

DIAGRAM
SHEET NUMBER:
E410
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME: FIRE ALARM &

SCALE: 12" = 1'-0" FORMAT: 30" X 42" DRAWN: CHECKED: JC DATE: 4/7/2023

PROJECT #: 2020

IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS **RECREATION CENTER** SITE AND BUILDING

/ | DATE: DESCRIPTION:

600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644 COST ESTIMATING
Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560

801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com

LEED CONSULTANT DataBased+

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<u>CIVIL ENGINEER</u> David Mason & Associates 123 S. Broad St Suite 1130

<u>ARCHITECT</u> DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com

<u>owner</u> City of Philadelphia

1515 Arch Street, 10th Floor

Philadelphia, PA 19102

Department of Parks and Recreation

<u>CLIENT</u> REBUILD

1515 Arch Street Mezzanine Level Philadelphia, PA 19104

DICCAL



- STEP 1 CONFIRM FINAL LOCATION OF EQUIP. WITH THE MECH. DRAWINGS & OEM'S SHOPS PRIOR TO INSTALLING CONDUIT. SEE PWR. DWGS. FOR EQUIP. TAG LOCATIONS
- STEP 2 REVIEW ARCH, KIT, MECH, PLBG, FIRE PROT. SUBMITTALS-SHOP DRAWINGS. FINAL EQUIP. LOCATION, ELEVATION, & PWR.
- REQUIREMENTS PRIOR TO INSTALLING CONDUIT. STEP 3 CONFIRM LOAD REQUIREMENTS WITH MECH'S
- OEM PRIOR TO INSTALLING CONDUIT SEE SCHDLE DWGS. FOR PANELBOARD
- FEEDER-BRANCH CIRCUIT NUMBERS. STEP 4 CONFIRM IN THE FIELD PNLBD-SWBD RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUITS.
- SEE PWR. DWGS. FOR PNLBD-SWBD LOCATIONS.
- 1. PROVIDE RACKING FOR STRTR TYPES (FVNR, FVR, PRMS, 2SP1W, & 2SP2W) PROVIDE THERMAL OVERLOADS PER OEM-FIELD VERIFICATION
- PROVIDE TWO SETS FORM "C" AUX CONTACTS WITH STARTER PROVIDE 24Vac CONTROL COIL FOR POWER RELAYS-MANUAL STRTR "PRMS"

PROVIDE A DUCT SMOKE DETECTOR COMPLETE WITH AIR SAMPLING TUBES AND REMOTE KEYED TEST STATION FOR ALL HVAC EQUIPMENT MAIN HEADER DUCTS AS FOLLOWS: RETURN HEADER DUCT RATED 2,000 CFM OR GREATER

SUPPLY HEADER DUCT RATED 15,000 CFM OR GREATER. PROVIDE INTERFACE MODULES AND CONNECT TO FIRE ALARM CONTROL PANEL. 6&7 4A 4B 1 2 3 5 EQUIPMENT POWER CHARACTERISTICS FEED FEED OCPD: FRAME AND TRIP EQUIPMENT FDR EQUIPMENT UNIT NAME LOCATION - TAG - QTY. & LOAD SPECIFICATIONS PWR FROM CIRCUIT BREAKER BRNCH TAG No. NAME AND AREA Ø N G PIN W HP MCA FLA KW PANEL POLES SYS CBFR CBTR 480 3 -DOAS 1 DEDICATED OUTSIDE AIR HANDLING UNIT DOAS-1 ROOF 3 4 - 110.9 - 92.09 NML MSB 200 125 9A MC 3 480 3 . RTU 1 ROOF TOP UNIT RTU-1 ROOF 3 4 -- 146.5 - 121.65 NML MSB 200 150 9A MC 208 ACU 1 AIR COND UNIT ACU-1 ROOF 2 3 - 19.0 - 3.95 NML PLP-L-B1 30 30 2 2C MC -ACU 2 AIR COND UNIT ACU-2 ROOF 1 ⁻ ¹ 2 3 - 19.0 - 3.95 NML PLP-L-B1 30 30 2 2C MC -480 3 17.44 NML CU 1.1A CONDENSING UNIT CU-1.1A ROOF 21.0 PLP-H-1 60 35 3A MC 480 3 -CU 1.1B CONDENSING UNIT CU-1.1B ROOF 17.44 NML PLP-H-1 60 35 3 4 - 21.0 3A MC 480 3 . 3 4 16.61 NML PLP-H-1 30 30 CU 1.2A CONDENSING UNIT CU-1.2A ROOF 20.0 2A MC 480 3 3 4 - 20.0 - 16.61 NML CU 1.2B CONDENSING UNIT CU-1.2B ROOF PLP-H-1 30 30 2A MC 480 3 CU 2.1A CONDENSING UNIT CU-2.1A ROOF 3 4 17.0 14.12 NML PLP-H-1 30 25 2A MC 480 3 CU 2.1B CONDENSING UNIT CU-2.1B ROOF 3 4 - 17.0 - 14.12 NML PLP-H-1 30 25 3 2A MC -480 3 CU FUTURE CONDENSING UNIT CU-FUTURE ROOF 3 4 - 20.0 16.61 NML PLP-H-1 30 30 2A MC -480 3 CU FUTURE CONDENSING UNIT CU-FUTURE ROOF 3 4 - 20.0 - 16.61 NML PLP-H-1 30 30 3 2A MC -FCU 1.1 FAN COIL UNIT FCU-1.1 CLASSROOM 2 0.88 NML PLP-L-B1 30 15 4.3 2C MC 2 208 FCU 1.2 FAN COIL UNIT FCU-1.2 CLASSROOM 1 2 3 2.9 0.60 NML PLP-L-B1 30 15 2C MC 2 3 FCU 1.3 FAN COIL UNIT FCU-1.3 PREP KITCHEN - 2.9 0.60 NML PLP-L-B1 30 15 2C MC 208 - 2.9 - 0.60 NML PLP-L-B1 30 15 2 FCU 1.4 FAN COIL UNIT FCU-1.4 ARTS & CRAFT RM 2 3 2C MC -- ¹ 2 3 - <u>2.9</u> - <u>0.60</u> <u>NML</u> <u>PLP-L-B1</u> <u>30</u> <u>15</u> <u>2</u> <u>2C</u> <u>MC</u> -FCU 1.5 FAN COIL UNIT FCU-1.5 LOUNGE 2 3 - 1.8 - 0.36 NML PLP-L-B1 30 15 2 2C MC FCU 1.6 FAN COIL UNIT FCU-1.6 ADMIN 1 - 1 2 3 - 0.3 - 0.05 NML PLP-L-B1 30 15 2 2C MC -FCU 1.7 FAN COIL UNIT FCU-1.7 OFFICE 208 1 - 1 2 3 - 0.3 - 0.05 NML PLP-L-B1 30 15 2 2C MC FCU 1.8 FAN COIL UNIT FCU-1.8 OFFICE 208 1 - 1 2 3 - 4.5 - 0.94 NML PLP-L-B1 30 15 2 2C MC - -FCU 1.9 FAN COIL UNIT FCU-1.9 COMPUTER LAB
 208
 1
 1
 2
 3
 4.3
 0.88
 NML
 PLP-L-B1
 30
 15
 2
 2C
 MC
 FCU 1.10 FAN COIL UNIT FCU-1.10 AFTER SCHOOL PROGRAM RM 208 1 - 1 2 3 - 2.9 - 0.60 NML LRP-L-1B 30 15 2 2C MC - -FCU 1.11 FAN COIL UNIT FCU-1.11 LOBBY 208 1 - 1 2 3 - 2.9 - 0.60 NML LRP-L-1B 30 15 2 2C MC -FCU 1.12 FAN COIL UNIT FCU-1.12 LOBBY 208 1 - 1 FCU 1.14 FAN COIL UNIT FCU-1.14 CORRIDOR-1 1 - 1 2 3 - 2.1 - 0.44 NML PLP-L-B1 30 15 2 2C MC - -
 208
 1
 1
 2
 3
 0.5
 0.10
 NML
 PLP-L-B1
 30
 15
 2
 2C
 MC
 FCU 1.15 FAN COIL UNIT FCU-1.15 FOYER 208 1 - 1 FCU 1.16 FAN COIL UNIT FCU-1.16 CONCESSIONS - ¹ 2 3 - 1.8 - 0.36 NML LRP-L-1B 30 15 2 2C MC - -208 1 - 1 2 3 - 4.3 - 0.88 NML LRP-L-2 30 15 2 2C MC - -FCU 2.1 FAN COIL UNIT FCU-2.1 CLASSROOM 4 208 1 -FCU 2.2 FAN COIL UNIT FCU-2.2 CLASSROOM 3 1 - 1 2 3 - 2.9 - 0.60 NML LRP-L-2 30 15 2 2C MC - -208 1 i ¹ ⁻ ¹ ² ³ ⁻ ^{4.5} ⁻ 0.94 NML LRP-L-2 30 15 2 2C MC ⁻ FCU 2.3 FAN COIL UNIT FCU-2.3 MULTIPURPOSE ROOM FCU 2.4 FAN COIL UNIT FCU-2.4 MULTIPURPOSE ROOM 1 - 1 2 3 - 8.2 - 1.71 NML LRP-L-2 30 15 2 2C MC - -208 1 - 1 2 3 - 3.0 - 0.62 NML LRP-L-2 30 15 2 2C MC - -FCU 2.5 FAN COIL UNIT FCU-2.5 CORRIDOR-1 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC -CUH 0.1 CABINET UNIT HEATER CUH-0.1 STAIR 1 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-1 30 15 3 2A MC -CUH 1.1 CABINET UNIT HEATER CUH-1.1 SEE PLANS
 480
 3
 1
 3
 4
 6.0
 5.00
 NML
 PLP-H-1
 30
 15
 3
 2A
 MC
 CUH 1.2 CABINET UNIT HEATER CUH-1.2 SEE PLANS 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC -CUH 1.3 CABINET UNIT HEATER CUH-1.3 SEE PLANS
 480
 3
 1
 3
 4
 6.0
 5.00
 NML
 PLP-H-B1
 30
 15
 3
 2A
 MC
 CUH 1.4 CABINET UNIT HEATER CUH-1.4 SEE PLANS 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC -CUH 2.1 CABINET UNIT HEATER CUH-2.1 SEE PLANS CUH 2.2 CABINET UNIT HEATER CUH-2.2 SEE PLANS - ¹ 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -CUH 2.3 CABINET UNIT HEATER CUH-2.3 SEE PLANS 0 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -CUH 3.1 CABINET UNIT HEATER CUH-3.1 SEE PLANS
 480
 3
 1
 3
 4
 6.0
 5.00
 NML
 PLP-H-B1
 30
 15
 3
 2A
 MC
 EUH 0.1 ELECTRIC UNIT HEATER EUH-0.1 STORAGE REC 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC -
 EUH
 0.2
 ELECTRIC UNIT HEATER EUH-0.2 STORAGE REC
 480 3 -EUH 0.3 ELECTRIC UNIT HEATER EUH-0.3 CORRIDOR-1 - ¹ 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -EUH 0.4 ELECTRIC UNIT HEATER EUH-0.4 UTILITY EUH 0.5 ELECTRIC UNIT HEATER EUH-0.5 USER STORAGE 480 3 -- 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -EUH 0.6 ELECTRIC UNIT HEATER EUH-0.6 WATER SERVICES 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -EUH 0.7 ELECTRIC UNIT HEATER EUH-0.7 STORAGE 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC -EUH 0.8 ELECTRIC UNIT HEATER EUH-0.8 USER STORAGE 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -EUH 3.1 ELECTRIC UNIT HEATER EUH-3.1 UNOCCUPIED SPACE 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -EUH 3.2 ELECTRIC UNIT HEATER EUH-3.2 UNOCCUPIED SPACE 480 3 - 1 3 4 - 6.0 - 5.00 NML PLP-H-B1 30 15 3 2A MC - -EUH 3.3 ELECTRIC UNIT HEATER EUH-3.3 UNOCCUPIED SPACE
 208
 1
 1
 2
 3
 1/4
 3.1
 0.64
 NML
 PLP-L-B1
 30
 15
 2
 2C
 EC
 AC 1 AC SPLIT FAN COIL UNIT AC-1 MDF ROOM AC 2 AC SPLIT FAN COIL UNIT AC-2 ELECTRICAL ROOM 208 1 - 1 2 3 1/4 - 3.1 0.64 NML PLP-L-B1 30 15 2 2C EC - -
 B
 1
 1
 2
 3
 0.5
 0.10
 NML
 PLP-L-B1
 30
 15
 2
 2C
 MC
 BSB 1.1 BRANCH SELECTOR BSB-1.1 SEE PLANS 208 1 - 1 BSB 1.2 BRANCH SELECTOR BSB-1.2 SEE PLANS ^{UB} 1 - 1 2 3 - 0.5 - 0.10 NML PLP-L-B1 30 15 2 2C MC -BSB 1.3 BRANCH SELECTOR BSB-1.3 SEE PLANS - ¹ 2 3 - 0.5 - 0.10 NML PLP-L-B1 30 15 2 2C MC - -208 1 - 1 2 3 - 0.5 - 0.10 NML PLP-L-B1 30 15 2 2C MC - -BSB 2.1 BRANCH SELECTOR BSB-2.1 SEE PLANS
 480
 3
 1
 3
 4
 12.6
 10.50
 NML
 PLP-H-B1
 30
 20
 3
 2A
 PC
 EC
 EWH 1 ELECT WATER HEATER EWH-1 BASEMENT 480 3 - 1 3 4 - 12.6 - 10.50 NML PLP-H-B1 30 20 3 2A - PC EC EWH 2 ELECT WATER HEATER EWH-2 BASEMENT 120 1 1 1 2 3 1/2 - 9.8 1.18 NML PLP-L-B1 30 15 1 2G PC - -EPP 1 ELEVATOR PIT PUMP EPP-1 ELEVATOR PIT - - - -208 1 1 1 3 4 1/2 - 5.4 1.12 NML PLP-L-B1 30 15 2 2D PC - -HWRP 1 HOT WATER RECIRC PUMPS HWRP-1 BASEMENT
 208
 1
 1
 2
 3
 1 1/2
 11.0
 2.29
 NML
 PLP-H-B1
 30
 20
 2
 2C
 PC
 EC

120 1 1 1 2 3 1/2 - 11.5 1.38 NML LRP-L-1 30 20 1

 120
 1
 1
 1
 2
 3
 1
 16.0
 1.92
 NML
 LRP-L-1
 30
 25
 1
 2G
 EC

480 3 - 1 3 4 - 13.0 - 10.80 NML MSB 30 20 3 2A EC - -

120 1 1 1 2 3 1/6 - 4.4 0.53 NML LRP-L-1 30 15 1 2G EC - -

2G EC - ·

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STEP 5 CONFIRM IN THE FIELD OCPD REQUIREMENTS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. OCPD RATINGS DERIVED FROM MECH'S OEM'S SPECS OR MOTOR SIZING PER CODE. STEP 6 CONFIRM IN THE FIELD FEEDER-BRANCH CIRCUIT SIZING WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. STEP 7 SEE FEEDER-BRANCH CIRCUIT SCHEDULE FOR TAG-WIRE SIZE. STEP 8 CONFIRM IN THE FIELD CONTACTOR-STARTER-VFC-PRMS-DS SW RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. ALL FULL VOLTAGE MAGNETIC STARTERS SHALL BE PROVIDED

WITH HAND-OFF-AUTO SELECTOR SWITCH AND PILOT LIGHTS.

2 PROVIDE RACKING FOR VARIABLE FEQUENCY CONTROLLER "VFC CALIBRATE OVERLOADS PER OEM-FIELD VERIFICATION RESULTS PROVIDE FOUR SETS FORM "C" CONTACTS WITH VFC PROVIDE OEM START-UP & COMMISSIONING PRIOR TO PUNCHLIST PROVIDE WRITTEN VFC FIELD PROGRAMMED SETTINGS

EQUIPMENT SCHEDULE STEP 9 CONFIRM IN THE FIELD THERMAL OVERLOAD RATING

WITH OEM PROVIDE OVERLOADS PER OEM SPECS. STEP 10 CONFIRM IN THE FIELD WITH OEM PRIOR TO INSTALLING CONDUIT LOCATE DISC SW SWITCH WITHIN 5FT & WITHIN SIGHT OF THE MOTOR-LISTED EQUIPMENT.

STEP 11 PROVIDE CONN. TO MOTOR-LISTED EQUIP PROVIDE A Cu EQUIP GROUND (EGC) FROM DISC SW SWITCH TO MOTOR ELECT.-EQUIP CONNECTION POINT-JUNCTION BOX.

3 DISC SW SHALL BE IN SIGHT OF MOTOR-EQP AND SHALL NOT EXCEED MAX DIST OF 5FT FROM MOTOR-EQUIP MAX HEIGHT OF DISCONNECT SWITCH HANDLE SHALL NOT EXCEED 6'-3' PROVIDE SIX POLE DISC SW FOR TWO SPEED AND ONE-TWO WINDING MOTORS.

POWERED EQUIPMENT SCHEDULE

SE 1 SEWAGE EJECTOR PUMP SE-1 SEE PLANS

RB 1 RETRACABLE BACKBOARD RB-1 GYMNASIUM

CD 1 CURTAIN DIVIDER CD-1 GYMNASIUM

SB 1 SCOREBOARD SB-1 GYMNASIUM

ELV 1 ELEVATOR ELV-1 SEE PLANS

REFER TO SHEET E.400 FOR FEEDER SCHEDULES



PR POWER RELAY TC TIME CLOCK CNTRLER T-S TEMP-SENSOR SW W-STAT WALL LINE VOLT STAT WS WALL LINE VOLT SW FB FURNISHED BY IB INSTALLED BY PB PROVIDED BY FDR FEEDER CIRCUIT

EM EMERGENCY POWER NML NORMAL POWER SBY STANDBY POWER NA NOT APPLICABLE BRNCH BRANCH CIRCUIT GC GENERAL CONTRACTOR KC KITCHEN CONTRACTOR MC MECHANICAL CONTRACTOR PC PLUMBING CONTRACTOR

FPC FIRE PROTECTION CONTRACTOR OWN OWNER CPC CORD-PLUG CONNECTION FWC FLEXIBLE WHIP CONDUIT HWC HARD WIRED CONN ENC NEMA ENCLOSURE LOC LOCKING REC RECEPTACLE OCPD OVERCURRENT PROTECT DEVICE OEM ORIGINAL EQP MANUFACTURER

4 CONFIRM MOTOR ROTATION-OPERATION WITH OEM REP PRIOR TO ENERGIZING MOTOR EQUIP. PROVIDE GROUNDING PER OEM SPECS. FLEX CONDUIT SHALL NOT EXCEED 72" MAXIMUM LENGTH.



6 CONTRACTOR MAY CONNECT MULTIPLE PIECES OF EQUIPMENT ON A SINGLE BRANCH CIRCUIT.

											10						11					10
	}										·v											12
MOTOR-LISTED EC	QP - CONTROL	LER-STARTER	TYPES &						LOCA	L DISC.	SW. PROVIDED BY			Μ	IOTOR-LIST	ED EQUIP CO	ONN & OEM RE		S PROVIDE	D BY E.C.		
MTR CONTR	ROLLER - SWIT	CH RATING - C	CPD TRIP	9 SIZE					ELE	CTRICA	L CONTRACTOR			C	ORD & PLU	G REC OR FI	EX WHIP FOR	MOTOR OR S	SINGLE PO	INT CONN		REMARKS
ROOM	SIZE	TYPE	ENC	DS-SW	OCPD	Р	NOTE	SIZE	ENC	Ρ	NOTE	PB	REC	LOC	NEMA	GFI	REC No	CPC	HWC	FWC	NOTE	
SEE MECH.	NA	IMUC	3R	200	125	3		200	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	IMUC	3R	200	150	3	-	200	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SEE MECH.	NA	RMUC	3R	30	30	2	1	30	3R	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	30	30	2	1	30	3R	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
-	-	-	-	-	-	-		-	-	-	_	-	-	-	-	-	-	-	-		-	
SEE MECH.	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	30	30	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	30	30	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	30	25	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	30	25	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	30	30	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	RMUC	3R	30	30	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
-	-	-	-			-		-	-				-	-	-	-	-	-	-		<u>-</u>	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	_	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	_	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	_	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	_	NA	NA	NA	NA	YES	YES	4	
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SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC.	NA	_	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	FC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	FC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	FC	NA	_	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	FC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	2	1	30	1	2	3	FC	NA	-	NA	NA	NA	NA	YES	YES	4	
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SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH	NA	W-STAT	1	30	15	3	1	30	_	3	3	FC	NA	_	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	_	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
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SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30		3	3	EC	NA	_	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA		NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	W-STAT	1	30	15	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
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SEE MECH.	1	W-STAT	1	30	15	2	1	30	-	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	1	W-STAT	1	30	15	2	1	30	-	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
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SEE MECH.	NA	IMUC	1	30	15	2	-	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	IMUC	1	30	15	2	-	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	IMUC	1	30	15	2	-	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE MECH.	NA	IMUC	1	30	15	2	-	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
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SEE PLUMB.	NA	IMUC	1	30	20	3	-	30		3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
SEE PLUMB.	NA	IMUC	1	30	20	3	-	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SEE PLUMB.	-	IMUC	1	30	15	1	-	30	-	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
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SEE PLUMB.	1	IMUC	1	30	20	2	-	30	-	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
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NA	1	NA	NA	30	15	1	1	30	-	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
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DIGSAU
<u>CLIENT</u> REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104 <u>OWNER</u>
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	LOCATION: ELECTRICAL B05			VOLTS:	480/277 Wy	ye		A.I.C. Rating	: 22,000			NEUTRA	L BUS: STANDARD, C	OPPE
Μ	OUNTING TYPE: SURFACE			PHASES:	3			MAINS TYPE:	: MLO			GROUN	D BUS: STANDARD, C	OPPE
	ENCLOSURE: NEMA 1			WIRES:	4			MAINS	. 250 A					
	FED FROM: MSB		M	CB TYPE:	COPPER			MCB RATING:	250 A					
	Load Name	TRID			A	E	3	с			TRID		oad Name	CC
1		20 A	FULE3	1058 \/A	23.1/4					FULES	20 A			
3	LIGHTING BOOM 121 122 109-112	20 A	1	1900 VA	23 VA	1203 \/A	723 \/A			1	20 A			
5	LIGHTING ROOM 103, 115, 113	20 A	1			1200 VA	120 VA		300 VA	1	20 A		FRIOR	
7	EXIT SIGNS FIRST FLOOR	20 A	1	62 VA	1812 VA			012 070	500 171	1	20 A	LIGHTING ROC	DM 204, 201, 202, 203	م
9	LIGHTING CORRIDOR 200	20 A	1	02 171	1012 171	1291 VA	22 VA			1	20 A	EXIT SIGNS TH	IIRD FLOOR	
11	LIGHTING/EXIT SIGNS THIRD FLOOR	20 A	1					452 VA	320 VA	1	20 A	EXTERIOR LIG	HT POLES	1
13	LIGHTING ELEV. PIT LIGHT	20 A	1	50 VA	0 VA					1	20 A	SPARE		14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		1(
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		1
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE		2
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE		20
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		3
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE		3
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		36
37	I-B1	200 A	3	24798 VA	0 VA	1700014	0.14			1	20 A	SPARE		38
39						17660 VA	0 VA	47405 \/A	0.) (A	1	20 A	SPARE		4(
41			TOTAL LOAD:	2870	3 VA	2089	9 VA	17165 VA) VA	<u> </u>	20 A	SPARE		42
			TOTAL AMPS:	10	5 A	76	A	69	A					
OAD	CLASSIFICATIONS:		CONN	IECTED LO	AD DE	EMAND FAC	TOR	ESTIMATED	DEMAND			PANEL T	OTALS	
LECT	RICAL HEATING			0 VA		0.00%		0 VA	۱ <u> </u>	TOTA		ECTED LOAD:	68780 VA	
IGHT	ING			9692 VA		125.00%		12115	VA	٦	OTAL	EST. DEMAND:	52843 VA	
ΙΟΤΟ	R/EQUIPT.		1	11760 VA		80.00%		9408 \	/A			TOTAL CONN.:	83 A	
ECE	PTACLE		3	32016 VA		50.00%		16008	VA	-	OTAL	EST. DEMAND:	64 A	

PANEL BOARD: MDF-	31
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	LOCATION:	MDF ROOM			VOLTS:	120/208 V	Vye		A.I.C. Rating	: 22,000			NEUTRA	AL BUS: STAND	ARD, COPPER
M	OUNTING TYPE:	SURFACE			PHASES:	3	-		MAINS TYPE	: MCB			GROUN	ID BUS: STAND	ARD, COPPER
	ENCLOSURE:	NEMA 1			WIRES:	4			MAINS	. 100 A					
	FED FROM:	LRP-L-B1		M	CB TYPE:	COPPER			MCB RATING	: 100 A					
CCT NO.	Lo	oad Name	TRIP	POLES		4		В	С	;	POLES	TRIP		∟oad Name	CCT NO.
1	RECEPTACLE N	MDF B03	20 A	1	720 VA	360 VA	\				1	20 A	RECEPTACLE	MDF B03	2
3	RECEPTACLE N	MDF B03	20 A	1			360 VA	2496 VA	4		2	20 A	RECEPTACLE	MDF B03	4
5	RECEPTACLE N	MDF B03	20 A	2					2496 VA	2496 VA					6
7					2496 VA	360 VA	\				1	20 A	RECEPTACLE	MDF B03	8
9	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		10
11	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		12
13	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE		14
15	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		16
17	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		18
19	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE		20
21	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		22
23	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		24
25	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE		26
27	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		28
29	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		
31	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE		32
33	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		34
35	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		36
37	SPARE		20 A	1	0 VA	0 VA					1	20 A	SPARE		38
39	SPARE		20 A	1			0 VA	0 VA			1	20 A	SPARE		40
41	SPARE		20 A	1					0 VA	0 VA	1	20 A	SPARE		42
				TOTAL LOAD:	3936	6 VA	285	6 VA	4992	VA					
				TOTAL AMPS:	34	A	24	1 A	43	A					
LOAD	CLASSIFICATIO	NS:		CONN	ECTED LO	AD		CTOR	ESTIMATED	DEMAND			PANEL	TOTALS	
ELECT	RICAL HEATING	i			0 VA		0.00%		0 VA	۱	TOTA		IECTED LOAD:	11784 VA	
LIGHT	ING				0 VA		0.00%		0 VA	١			EST. DEMAND:	5892 VA	
MOTO	R/EQUIPT.				0 VA		0.00%		0 VA	١		-	TOTAL CONN.:	33 A	
RECEF	PTACLE				11784 VA		50.00%		5892 \	/A	-		EST. DEMAND:	16 A	
NOTES	S:			I		I					1				

PANEL BOARD: LRP-L-B1														NEL BOARD: LRP-L-1B										
LOCATION: ELECTRICAL B05			VOLTS:	120/208 W	ye		A.I.C. Rati	ng: 22.000			NEUTRAL BUS: STANDARD, CO	OPPER		LOCATION: ELEC. CLOSET. GYN	1 102		VOLTS: 120/208	Vye	A.I.C. Rating	: 22,000		NEUTRAL BUS: STANDARD, COPPEF		
MOUNTING TYPE: SURFACE			PHASES:	3			MAINS TY	PE: MCB			GROUND BUS: STANDARD, CO	PPER	M	IOUNTING TYPE: SURFACE			PHASES: 3	•	MAINS TYPE	.: MCB	GROUND BUS: STANDARD, COPPER			
ENCLOSURE: NEMA 1			WIRES:	4			MAIN	S 225 A			L			ENCLOSURE: NEMA 1			WIRES: 4		RATING	. 225 A				
FED FROM: T-B1		M	CB TYPE:	COPPER			MCB RATIN	NG: 225 A						FED FROM: LRP-L-B1		M	CB TYPE: COPPER							
CCT NO. Load Name	TRIP	POLES		Α		В		С	POLES	TRIP	Load Name	CCT NO.	CCT NO.	Load Name	TRIP	POLES	Α	В	c	;	POLES	TRIP	Load Name	CCT NO.
1 RECEPTACI E CORRIDOR-2 B01-2	20 A	1	900 VA	720 VA					1	20 A	RECEPTACI E WATER SERVICES B07	2	1	RECEPTACLE LOBBY-1 100-1	20 A	1	900 VA 360 V				1	20 A	RECEPTACLE GYMNASIUM-1 102-1	2
3 RECEPTACLE ROOM 805, 806, 801-1	20 A	1	000 111	120 171	900 VA	180 VA	1		1	20 A	RECEPTACLE ELEV-1 PIT	4	3	RECEPTACLE GYMNASIUM-1 102-1	20 A	1		540 VA 180 V	Α		1	20 A	RECEPTACLE EWC	4
5 RECEPTACLE	20 A	1					180 VA	180 VA	1	20 A	RECEPTACLE	6	5	RECEPTACLE	20 A	1			720 VA	1380 VA	1	20 A	RB-1	6
7 RECEPTACLE GYMNASIUM-1 102-1	20 A	1	540 VA	2496 VA					2	30 A	RECEPTACLE WASHER	8	7	RB-1	20 A	1	1380 VA 1380 V	Α			1	20 A	RB-1	8
9 RECEPTACLE	20 A	1			720 VA	2496 VA	A				-	10	9	RB-1	20 A	1		1380 VA 1380 V	Ά		1	20 A	 RB-1	10
11 RECEPTACLE DRYER STORAGE	20 A	1					1200 V/	A 445 VA	1	20 A	LIGHTING ROOM 108, 117, 107A-1,	12	11	RB-1	20 A	1			1380 VA	500 VA	1	20 A	JBOX EHD WC MEN 106	12
13 SPARE	40 A	2	3328 VA	90 VA					1	20 A	LIGHTING ROOM 200	14	13	JBOX EHD	20 A	1	500 VA 500 VA	N			1	20 A	JBOX EHD WC WOMEN 105	14
15					3328 VA	1000 VA	A		1	20 A	FAAP	16	15	SB-1	20 A	1		1060 VA 180 VA	A		1	20 A	RECEPTACLE	16
17 SPARE	40 A	2					3328 V/	A 1000 VA	1	20 A	ECCP	18	17	RECEPTACLE ROOM 100-1, 100B	20 A	1			720 VA	180 VA	1	20 A	RECEPTACLE	18
19			3328 VA	0 VA					1	20 A	SPARE	20	19	RECEPTACLE EWC LOBBY-1 100-1	20 A	1	180 VA 1260 V	A			1	20 A	RECEPTACLE LOBBY-1 100-1	20
21 SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	21	RECEPTACLE	20 A	1		180 VA 500 V	A		1	20 A	RECEPTACLE DRYER WC MEN 106	22
23 SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	23	RECEPTACLE JAN 103	20 A	1			180 VA	180 VA	1	20 A	RECEPTACLE CLOCK GYMNASIUM	-1 24
25 SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	25	CD-1	25 A	1	1920 VA 180 V	N			2	15 A	FCU-1.16	26
27 SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	27	FCU-1.11, FCU-1.12	15 A	2		600 VA 180 V	A					28
29 SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	29						600 VA	0 VA	1	20 A	SPARE	30
31 SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	31	REFRIGERATOR VESTIBULE 123	20 A	1	900 VA 0 VA				1	20 A	SPARE	32
33 SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	33	SPARE	20 A	1		0 VA 0 VA			1	20 A	SPARE	34
35 SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37 SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	37	SPARE	20 A	1	0 VA 0 VA				1	20 A	SPARE	38
39 SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40	39	SPARE	20 A	1		0 VA 0 VA			1	20 A	SPARE	40
41 SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42	41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
43 SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	44				τοτλι								
45 SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	46					9460 VA	6180 VA	5840	J VA				
47 SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	48				20/101								
49 SPARE	20 A	1	0 VA	3936 VA					3	100 A	MDF-B1	50				TOTAL	70.4	E0 A	10					
51 SPARE	20 A	1			0 VA	2856 VA	A					52				AMPS:	/9A	52 A	49	A				
53 SPARE	20 A	1					0 VA	4992 VA				54												
		τοται										-				CONN		DEMAND FACTOR	ESTIMATED				PANEL TOTALS	
		LOAD:	247	98 VA	176	60 VA	17	165 VA																
																		0.00%	0.1//	<u>`</u>			ST DEMAND: 14269 VA	
		TOTAL	20		14	18 A		143 A					MOTO				11760 \/A	90.00%	0.07					
		AMPS:		51 A	-			140 A									0700 VA	50.00%	9406				OT DEMAND: 40 A	
													RECE	PTACLE			9720 VA	50.00%	4860	VA		TOTALE	51. DEMAND: 40 A	
LOAD CLASSIFICATIONS		CONN	ECTED L			CTOR	ESTIMATE				PANEL TOTALS		NOTE	S:										
											ECTED OAD: 59623 VA													
			535 \/Δ		125 000	,)/a	0 88	9 \/A			ST DEMAND: 41307 \/A													
		1	1760 \/A		80 000	/··	00:																	
			2016 VA		50.007	/	340			TOTAL														
		3	52010 VA		50.00%	0	1600			IUIALE			L											
NOTES:																								

SWITCHBOARD: MSB

CCT NO.

	LOCATION: ELECTRICAL B04		VOLTS:	480/277 W	'ye		MAINS TYPE: 1200 A (100% COPPER)						
	FED FROM: UTILITY TRANSFORMER	ł	PHASES:	3			MA	INS RATII	NG: 1200 A				
I	MOUNTING TYPE: FLOOR		WIRES:	4			MA	AIN CIRCU	I T 1200 A (100% RATED)				
	ENCLOSURE: NEMA 1		A.I.C. RATING:	65,000			NE	UTRAL B	US: 100% RATED FULL COPPER WITH BUS DISCONNECT LIN				
	OTHER: PROVIDE 4" HIGH	CONCRETE PA	D				GF		US: 100% RATED FULL COPPER				
	1												
CCT NO.	DESCRIPTION	Load	FRAME SIZE	TRIP RATING	BREAK TYPE	KER BR E R	REAKER	NOTES					
1	SURGE PROTECTION DEVICE	60 VA	100 A	60 A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
2	DOAS-1	92090 VA	200 A	125 A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
3	RTU-1	121650 VA	200 A	150 A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
4	PLP-H-1	146900 VA	200 A	150 A 3 IC		ICCE	3	80%	LSIG CIRCUIT BREAKER				
5	ELV-1	10800 VA	150 A	20 A	3	ICCE	8 80%		LSIG CIRCUIT BREAKER				
6	SPARE	0 VA	150 A	100 A	3 ICCB 80%			80%	LSIG CIRCUIT BREAKER				
7	PLP-H-B2	68780 VA	250 A	200 A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
8	PLP-H-B1	116000 VA	250 A	200 A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
9	T-B2	57680 VA	250 A	125 A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
10	SPACE				3								
11	FUTURE PV SYSTEM		600A	600A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
12	SPARE	0 VA	150 A	100 A	3	ICCE	3	80%	LSIG CIRCUIT BREAKER				
		TOTAL LOAD	ESTIMATED LOAD										
	TOTAL CONN. LOAD:	614 kVA	519 kVA										
	TOTAL AMPS:	738 A	625 A	625 A									
Notes													

1. PROVIDE SHUNT TRIP BREAKER FOR ELEVATOR CIRCUIT #5.

PANEL BOARD: PLP-H-B1										P/	ANEL BOA	ARD: PLP-L-B1													
LOCATION: ELECTRICAL BO	5		VOLTS:	480/277 Wy	ye	A.I.C. Rating: 22,000		NEUTRAL BUS: S	STANDARD, COPPER		LOCA	TION: ELECTRICAL B05			VOLTS: 12	20/208 Wy	/e		A.I.C. Ratin	g: 22,000			NEUTRAL BUS:	TANDARD, COPF	PE
MOUNTING TYPE: SURFACE			PHASES:	3		MAINS TYPE: MLO		GROUND BUS: S	STANDARD, COPPER		MOUNTING	TYPE: SURFACE			PHASES: 3			N	AINS TYP	E: MCB			GROUND BUS:	STANDARD, COPP	PE
ENCLOSURE: NEMA 1			WIRES:	4		MAINS 200 A		_			ENCLOS	SURE: NEMA 1			WIRES: 4				MAINS	200 A					
FED FROM: MSB		M	ICB TYPE:	COPPER		MCB RATING: 200 A					FED F	FROM: T-B2		M	CB TYPE: C	OPPER		N	CB RATIN	G : 200 A					
CCT	TDID			Α	В	с			CCT	CC	т	Lood Nome	TPID	DOLES	A			В		С		тыр	Lood Nom		
		POLES	3333 \/A	1667.\/A			FOLES TRIP				J. BSB 1 3 1			POLES	350 \/A	330 \/A					POLES				
3	20 A		3333 VA	1007 VA	3333 V/A 1667 V/		3 13 A		Z	3		FC0-1.3	15 A	Z	330 VA	330 VA	350 \/A	330 \/A			2		SD-1.1, FCO-1.0, FCO-	.7, FCO-1.0	
5					0000 VA 1001 V	3333 VA 1667 VA			6	5	BSB-12	FCU-1.4 FCU-1.9	15 A	2			000 VA	000 VA	820 VA	1500 VA	1	20 A M			
7 FUH-0.4	15 A	3	1667 VA	3333 VA			3 20 A	EUH-0.5 EUH-0.6	8	7					820 VA	1500 VA			020 177	1000 1/1	1	20 A M			
9			1007 171		1667 VA 3333 V	A			10	9	MOTOR/F	-QUIPT.	20 A	1	020 171	1000 171	1500 VA	1145 VA			2	20 A S	F-1		1
11						1667 VA 3333 VA			12	11	1 SPARE		20 A	1					0 VA	1145 VA			<u> </u>		1
13 EUH-0.7. EUH-0.8	20 A	3	3333 VA	1667 VA			3 15 A	CUH-1.5	14	13	3 AC-2		15 A	2	320 VA	0 VA					2	20 A S	PARE		1
15					3333 VA 1667 V	A			16	15	5					-	320 VA	0 VA							1
17						3333 VA 1667 VA			18	17	7 EPP-1		15 A	1					1330 VA	1975 VA	2	30 A A	CU-1		1)
19 CUH-1.6, CUH-1.7	20 A	3	1667 VA	3333 VA			3 20 A	CUH-2.2, CUH-2.3	20	19	9 ACU-2		30 A	2	1975 VA	1975 VA			-						2
21					1667 VA 3333 V	A			22	21	1						1975 VA	740 VA			2	15 A F	CU-1.1, FCU-1.2		2
23						1667 VA 3333 VA			24	23	3 FCU-1.10	, FCU-1.14	15 A	2					660 VA	740 VA			•		2
25 CUH-2.1	15 A	3	1667 VA	3333 VA			3 20 A	EUH-3.1, EUH-3.2	26	25	5	·			660 VA	350 VA					2	15 A F	CU-1.5, FCU-1.15		2
27					1667 VA 3333 V	A			28	27	7 SPARE		15 A	2			0 VA	350 VA					•		2
29						1667 VA 3333 VA			30	29	9								0 VA	1200 VA	1	20 A E	LEVATOR DISC.		3
31 EUH-3.3	15 A	3	1667 VA	3500 VA			3 20 A	EWH-1	32	31	1 SPARE		20 A	2	0 VA	1200 VA					1	20 A E	LEVATOR DISC.		3
33					1667 VA 3500 V	A			34	33	3						0 VA	1200 VA			1	20 A E	LEVATOR DISC.		3,
35						1667 VA 3500 VA			36	35	5 HWRP-1		15 A	2					590 VA						3
37 EWH-2	20 A	3	3500 VA	1667 VA			3 15 A	CUH-3.1	38	37	7				590 VA	0 VA					2	15 A S	PARE		3
39					3500 VA 1667 V	4			40	39	9 SPARE		20 A	2			0 VA	0 VA							4
41						3500 VA 1667 VA			42	41	1								0 VA	0 VA	2	15 A S	PARE		4
43 CUH-0.1	15 A	3	1667 VA	1667 VA			3 15 A	EUH-0.4	44	43	3 SPARE		20 A	2	0 VA	0 VA									4
45					1667 VA 1667 V	A			46	45	5						0 VA	0 VA			2	15 A S	PARE		4
47						1667 VA 1667 VA			48	47	7 SPARE		20 A	2					0 VA	0 VA					4
49 SPARE	20 A	3	0 VA	0 VA			3 20 A	SPARE	50	49	9				0 VA 🥤	10000 VA					3	100 A P	OOL SERVICE		5
51					0 VA 0 VA				52	51	1 SPARE		20 A	2			0 VA	10000 VA							5
53						0 VA 0 VA			54	53	3								0 VA	10000 VA					5
		TOTAL LOAD:	386	67 VA	38667 VA	38667 VA								TOTAL LOAD:	20070	VA	179 ⁻	10 VA	197	10 VA					
		TOTAL AMPS:	14	40 A	140 A	140 A								TOTAL AMPS:	170	A	14	19 A	16	57 A					
LOAD CLASSIFICATIONS		CONN	NECTEDI		EMAND FACTOR			PANEL TOTALS		104	AD CLASSIFIC	CATIONS:		CONN					STIMATE				PANEL TOTALS		
ELECTRICAL HEATING			95000 VA		100.00%	95000 VA	TOTAL CON	NECTED LOAD: 116000 V/	A	FLF		ATING			0 VA		0.00%		0 \	/A	TOTA		CTED LOAD: 57680 VA		
		`	0 VA		0.00%	0 VA	ΤΟΤΔΙ	EST. DEMAND: 111800 V	A		HTING	· · · · · • •		-	0 VA		0.00%		0 \	/A		TOTAL ES	T. DEMAND: 52143 VA		
MOTOR/FQUIPT.			21000 VA		80.00%	16800 VA		TOTAL CONN : 140 A		MOT					27686 VA		80.00%	<u> </u>	2214	3 VA		<u>ΤΟ</u>	TAL CONN :: 160 A		
			0 \/Δ		0.00%	0 \/Δ	τοται			REC					0.1/4		0.00%	,	0 \	/Δ	+				
			0 074		0.0070	U VA				NOT							0.00 /0		0 0	11		I U IAL EJ			—
NUIES:											169:														

PANEL BOARD: PLP-H-1

	LOCATION: ELEC. CLOSET. GYM 102	2		VOLTS:	480/277 Wy	/e		A.I.C. Rating	g: 22,000			NEUTRAL BUS: STANDAR	D, COPPER			
MOUNTING TYPE: SURFACE				PHASES: 3 MAINS TYPE: MCB								GROUND BUS: STANDARD, COPPER				
	ENCLOSURE: NEMA 1			WIRES:	4			MAINS.	150 A							
	FED FROM: MSB		M	CB TYPE:	COPPER		N	ICB RATING	3: 150 A							
								1				1				
ССТ					A		В		C				ССТ			
NO.	Load Name	TRIP	POLES							POLES	TRIP	Load Name	NO.			
1	CUH-1.1	15 A	3	1667 VA	4707 VA					3	25 A	CU-2.1A	2			
3						1667 VA	4707 VA						4			
5								1667 VA	4707 VA				6			
7	CU-2.1B	25 A	3	4707 VA	5537 VA					3	30 A	CU-1.2A	8			
9						4707 VA	5537 VA						10			
11								4707 VA	5537 VA				12			
13	CU-FUTURE	30 A	3	5537 VA	5537 VA					3	30 A	CU-FUTURE	14			
15						5537 VA	5537 VA						16			
17								5537 VA	5537 VA				18			
19	CU-1.2B	30 A	3	5537 VA	5813 VA					3	35 A	CU-1.1A	20			
21						5537 VA	5813 VA						22			
23								5537 VA	5813 VA				24			
25	EXIT SIGNS GYM/LOBBY	20 A	1	31 VA	5813 VA					3	35 A	CU-1.1B	26			
27	LIGHTING JAN B13	20 A	1			1903 VA	5813 VA						28			
29	LIGHTING GYMNASIUM	20 A	1					2709 VA	5813 VA				30			
31	EXTERIOR LIGHT POLES	20 A	1	272 VA	286 VA					1	20 A	LIGHTING EXTERIOR	32			
33	CUH-1.2	15 A	3			1667 VA	1839 VA			1	20 A	LIGHTING GYMNASIUM	34			
35								1667 VA	300 VA	1	20 A	LIGHTING EXTERIOR	36			
37				1667 VA	0 VA					3	25 A	SPARE	38			
39	SPARE	20 A	1			0 VA	0 VA						40			
41	SPARE	20 A	1					0 VA	0 VA				42			
			TOTAL LOAD:	4710)9 VA	5026	62 VA	4952	29 VA							
				17	0 A	18	3 A	18	0 A							
			AWF J.													
LOAD	CLASSIFICATIONS:		CONN	ECTED LC	DAD DE	EMAND FA	CTOR	ESTIMATED	DEMAND			PANEL TOTALS				
ELECT	RICAL HEATING		1	0000 VA		100.00%)	10000) VA	TOTA		IECTED LOAD: 146900 VA				
LIGHT	ING			7340 VA		125.00%		9176	VA		OTAL	EST. DEMAND: 122824 VA				
мото	R/EQUIPT.		1	29560 VA		80.00%		10364	8 VA			TOTAL CONN .: 177 A				
RECE	PTACLE		0 VA			0.00%		0 V	A	-	OTAL	EST. DEMAND: 148 A				
NOTES	S:				I											



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DEFINITIONS:

2.

4.

- L50: TIME, IN HOURS, TO 50%
- DEVIATE FROM THE REFERENCE COLOR TEMPERATURE BY NO MORE THAN THREE MACADAM ELLIPSES, AS DEFINED BY NEMA/ANSI/ANSI/A CT8. 377-2015. COLOR RENDERING INDEX (CRI): MEASURE OF COLOR SHIFT OBJECTS UNDERGO WHEN ILLUMINATED BY AN ELECTRIC LIGHT SOURCE AS COMPARED WITH THE COLOR OF THE SAME OBJECTS ILLUMINATED BY A REFERENCE SOURCE AT THE SAME COLOR TEMPERATURE. CRI VALUES FOR ELECTRIC LIGHT SOURCES RANGE FROM APPROXIMATELY 20 (LOW PRESSURE SODIUM) TO 99 (HALOGEN). CRI VALUES FOR LED SOURCES SHALL BE MEASURED AFTER 6000 HOURS AND SHALL NOT DEVIATE MORE THAN 3 POINTS FROM THE RATED VALUE. LED LIGHT ENGINE: THE COMBINED LED LIGHT SOURCE AND ITS ASSOCIATED ELECTRONIC DRIVER. THE LED LIGHT ENGINE MAY HAVE AN INTEGRAL DRIVER OR THE DRIVER MAY BE HOUSED IN A SEPARATE ENCLOSURE. LED DRIVER: CONTROL DEVICE THAT MAINTAINS CONSTANT AMOUNT OF CURRENT TO THE LED LIGHT SOURCE. LED DRIVERS GENERALLY OPERATE AT 12VDC OR 24VDC. SOME DRIVERS ARE DESIGNED TO ACCEPT BRANCH CIRCUIT VOLTAGE RANGING FROM 120VAC THROUGH 277VAC OR MAY REQUIRE A SEPARATE TRANSFORMER. TRANSFORMER: ELECTROMAGNETIC OR ELECTRONIC DEVICE THAT STEPS DOWN PRIMARY VOLTAGE TO A LOWER SECONDARY VOLTAGE. GENERALLY SECONDARY VOLTAGE WILL BE 12V OR 24V. DIMMING: THE REDUCTION OF LIGHT INTENSITY OF A LIGHT SOURCE. ALL SOURCES SHALL HAVE A SMOOTH, FLICKER-FREE AND CONTINUOUS DIMMING CURVE. LED SOURCES MAY BE DIMMED BY EITHER CONSTANT CURRENT REDUCTION (CCR) OR BY PULSE WIDTH MODULATION (PWM) DIMMING FOR CONSTANT CURRENT DRIVERS. 6. RATED LUMEN MAINTENANCE LIFE: THE ELAPSED OPERATING TIME OVER WHICH AN LED LIGHT SOURCE WILL MAINTAIN THE PERCENTAGE OF ITS INITIAL LUMEN OUTPUT. LEWERMEAN FENANCE O 70% LUMEN MAINTENANCE
- THE LIGHTING DESIGNER SHALL BE REIMBURSED BY THE CONTRACTOR FOR ALL OF THE DESIGNER'S TIME ASSOCIATED WITH THE REVIEW OF THE PROPOSED FIXTURE SUBSTITUTION(S). PAYMENT SHALL BE MADE IN ADVANCE OF THE REVIEW, BASED ON THE DESIGNER'S ESTIMATE OF THE REQUIRED TIME. THE PAYMENT SHALL BE BASED ON THE DESIGNER'S STANDARD HOURLY RATES FOR THE PERSONNEL INVOLVED IN THE REVIEW.

CORRELATED COLOR TEMPERATURE (CCT): THE ABSOLUTE TEMPERATURE, MEASURED IN DEGREES KELVIN, OF A BLACKBODY RADIATOR HAVING CHROMATICITY RESEMBLING THAT OF AN ELECTRIC LIGHT SOURCE. FOR LED SOURCES CCT SHALL NOT DEVIATE FROM THE REFERENCE COLOR TEMPERATURE BY NO MORE THAN THREE MACADAM ELLIPSES, AS DEFINED BY

- CONTRACTOR'S EXPENSE. CONTRACTOR'S EXPENSE. CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY BECOME NECESSARY SHOULD THE PROPOSED SUBSTITUTION FAIL TO PERFORM IN A MANNER THAT MATCHES THE SPECIFIED FIXTURE. CONTRACTOR-NET UNIT PRICE FOR THE SPECIFIED FIXTURE AND FOR THE PROPOSED SUBSTITUTE FIXTURE.
- ONE NON-RETURNABLE WORKING SAMPLE OF THE PROPOSED SUBSTITUTE FIXTURE WITH CORD & PLUG CONNECTION FOR ONE NON-RETURNABLE WORKING SAMPLE OF THE PROPOSED SUBSTITUTE FIXTURE WITH CORD & PLUG CONNECTION FOR 120 VOLT OPERATION, AND SPECIFIED LAMP(S). CONTRACTOR'S STATEMENT INDICATING THE EFFECT OF THE SUBSTITUTION ON THE CONSTRUCTION SCHEDULE COMPARED TO THE SCHEDULE WITHOUT THE APPROVAL OF THE PROPOSED SUBSTITUTION. CONTRACTOR'S CERTIFICATION STATING THAT THE PROPOSED SUBSTITUTION CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS IN EVERY RESPECT AND IS APPROPRIATE FOR THE APPLICATIONS INDICATED IN THE DOCUMENTS. CONTRACTOR'S CERTIFICATION STATING THAT ANY MODIFICATIONS TO ANY BUILDING SYSTEM OR EQUIPMENT THAT MAY RESULT FROM THE PROPOSED LIGHTING FIXTURE SUBSTITUTION WILL BE DESIGNED AND CONSTRUCTED AT THE CONTRACTOR'S FYPENSE.
- 15. LIGHTING FIXTURE SUBSTITUTION REQUESTS MUST BE SENT TO AND RECEIVED BY THE LIGHTING DESIGNER FOR REVIEW 14 DAYS PRIOR TO BID DATE. FAILURE TO SUBMIT WITHIN THIS DEADLINE SHALL CONSTITUTE A GUARANTEE THAT THE SPECIFIED FIXTURES WILL BE SUPPLIED. THE SUBMITTAL SHALL INCLUDE THE FOLLOWING: SIX HARD COPIES OF THE SUBMITTALS REQUIRED ABOVE FOR BOTH THE SPECIFIED FIXTURE AND THE PROPOSED SUBSTITUTION.
- MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER FIXTURE TYPE, DIMENSIONS AND FINISHES FIXTURE PHOTOMETRIC TEST DATA FROM AN INDEPENDENT TEST LABORATORY FIXTURE ACCESSORIES, COMPONENTS, AND HARDWARE WHEN SPECIFIED LAMP TYPE, QUANTITY, WATTAGE, LUMEN OUTPUT, RATED LIFE, COLOR TEMPERATURE, COLOR RENDERING INDEX AND BEAM SPREAD AS APPLICABLE BALLAST TYPE AND FIXTURE VOLTAGE BALLAST TYPE AND FIXTURE VOLTAGE SUBMITTALS FOR LIGHTING FIXTURES MOUNTED WITHIN ARCHITECTURAL COVES OR CASEWORK, VARIABLE LENGTH FIXTURES, AND FOR NON-STANDARD, OR CUSTOM FIXTURES, SHALL ALSO INCLUDE SCALED DRAWINGS SHOWING THE LAYOUT AND DIMENSIONS OF ALL FIXTURE COMPONENTS AND ACCESSORIES, THE METHOD OF INSTALLATION, AND A COMPLETE BILL OF MATERIALS.
- 14. WITHIN 21 DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL FURNISH SUBMITTALS FOR ALL SPECIFIED LIGHTING FIXTURES FOR REVIEW BY THE DESIGN PROFESSIONAL. THE SUBMITTALS SHALL INCLUDE LUMINAIRE CATALOG CUTS, SUBMITTAL SHEETS, OR MANUFACTURERS SHOP DRAWINGS INDICATING THE FOLLOWING:
- 12. CONTRACTOR SHALL PROVIDE LABOR AND EQUIPMENT FOR FOCUSING OF ADJUSTABLE FIXTURES AND PRESETTING OF LIGHTING CONTROL SYSTEMS. FOCUSING AND PRESETTING SHALL BE DONE IN THE PRESENCE OF THE DESIGN PROFESSIONAL. CONTRACTOR SHALL FOCUS LIGHTING AFTER DARK IF DIRECTED BY THE OWNER'S REPRESENTATIVE. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE AT LEAST ONE DAY OF A FACTORY-TRAINED AND CERTIFIED TECHNICIAN TO PROVIDE WARRANTY START UP AND PROGRAMMING FOR ALL LIGHTING CONTROL SYSTEMS AND PROGRAMMABLE LIGHTING FIXTURES. 13. CONTRACTOR SHALL PROVIDE THE FOLLOWING WITH THEIR BID: THE UNIT PRICE, WITHOUT LAMP, FOR EACH LIGHTING FIXTURE TYPE LISTED WITHIN THE LIGHTING FIXTURE SCHEDULE. THE UNIT PRICE SHALL BE FOR ONE OF THE LISTED MANUFACTURER'S FOR THAT PARTICULAR FIXTURE. THE MANUFACTURER SHALL BE IDENTIFIED. SUBSTITUTIONS FOR FIXTURES PROVIDED BY MANUFACTURERS NOT LISTED IN THE SCHEDULE ARE NOT ACCEPTABLE. SEE BELOW FOR REQUIREMENTS ASSOCIATED WITH SUBMITTING LIGHTING FIXTURE SUBSTITUTIONS. THE TOTAL QUANTITY OF EACH FIXTURE TYPE WITH THE EXTENDED COST FOR THAT QUANTITY. THE UNIT PRICE, TYPE, AND QUANTITY OF LAMPS.
- 10. <u>LED WARRANTY:</u> UNLESS OTHERWISE INDICATED, ALL LIGHTING EQUIPMENT WITH INTEGRATED LED LIGHT ENGINES SHALL PROVIDE A MINIMUM 5-YEAR MANUFACTURER WARRANTY ON THE LED LIGHT ENGINE AND ASSOCIATED DRIVER(S). ALL SELF-CONTAINED LED LAMPS (SCREW-BASE, PIN-BASE) SHALL PROVIDE A MINIMUM 3-YEAR WARRANTY ON THE LAMP MODULE. 11. CONTRACTOR SHALL SELECT, FURNISH AND INSTALL THE CORRECT SIZE OF SECONDARY WIRING FROM REMOTE TRANSFORMERS AND/OR REMOTE BALLASTS AS REQUIRED TO KEEP VOLTAGE DROP IN THE SECONDARY WIRING BELOW 3% OF RATED VOLTAGE.
- INTEGRATED LED CHIP-BASED LUMINAIRES [>] 50,000 HOURS
 INTEGRATED LED CHIP-BASED LUMINAIRES [>] 50,000 HOURS
 LINEAR FLUORESCENT LED TUBES [>] 35,000 HOURS
 SCREW-BASE, GU10 BASE & PIN BASE LED LAMPS[>] 25,000 HOURS
 WEDGE-BASE LED LAMPS⁸,000 HOURS
- UNLESS OTHERWISE NOTED, THE COLOR RENDERING INDEX (CRI) FOR LED EQUIPMENT SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS: EXTERIOR LUMINAIRES > 70 CRI - INTERIOR LUMINAIRES >-80 CRI 9. LED LUMEN MAINTENANCE (L70): LED LUMEN MAINTENANCE SHALL BE MEASURED IN ACCORDANCE WITH IESNA LM-80 STANDARDS. PHOTOMETRIC TESTING FOR SOLID STATE LUMINAIRES SHALL BE IN ACCORDANCE WITH IESNA LM-79 STANDARDS. UNLESS OTHERWISE NOTED, THE LUMEN MAINTENANCE (L70) RATED LIFETIME FOR LED EQUIPMENT SHALL MEET THE FOLLOWING
- ALL DIMMABLE FLUORESCENT AND LED LAMPS SHALL BE BURNED CONTINUOUSLY FOR 100 HOURS AT FULL OUTPUT PRIOR TO FOCUSING OF FIXTURES AND COMMISSIONING OF CONTROL SYSTEMS. 7. 8. <u>LED CHROMATICITY AND COLOR RENDERING INDEX (CRI):</u> WHITE LEDS SHALL MEET, AT A MINIMUM, CHROMATICITY STANDARDS SET BY ANSI/NEMA/ANSLG C78.377-2015.
- DIMMING RANGES IDENTIFIED IN THE LIGHTING FIXTURES INDICATE THE REQUIRED LOW END DIMMING. ALL LIGHTING EQUIPMENT IDENTIFIED AS DIMMABLE SHALL PROVIDE SMOOTH, CONTINUOUS DIMMING FROM 100% POWER OUTPUT TO THE LOW-END PERCENTAGE OF POWER OUTPUT IDENTIFIED IN THE FIXTURE SCHEDULE.
- CONTRACTOR SHALL VERIFY ALL FINAL RUN LENGTHS FOR INTEGRATED MILLWORK LIGHTING EQUIPMENT WITH APPROVED MILLWORK SHOP DRAWINGS. 6.
- THE STATEMENT "FINISH TO BE SELECTED BY DESIGN PROFESSIONAL" SHALL BE INTERPRETED TO MEAN THAT THE FINISH OF THE LUMINAIRE SHALL MATCH THE APPEARANCE OF A PAINT CHIP, COLOR NUMBER, OR METAL SWATCH FURNISHED BY THE DESIGN PROFESSIONAL DURING THE SUBMITTAL REVIEW PROCESS. CONTRACTOR SHALL CONFIRM FIXTURE VOLTAGES, CEILING TRIMS, AND MOUNTING HARDWARE ARE COMPATIBLE WITH THEIR APPLICATION AS DETERMINED BY THE DESIGN PROFESSIONAL PRIOR TO ORDERING FIXTURES. 3. 4. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE AS REQUIRED FOR FIXTURE INSTALLATION.
- GENERAL NOTES: ALL LIGHTING FIXTURES, LAMPS AND RELATED DEVICES FURNISHED UNDER THIS CONTRACT SHALL CARRY THE APPROVAL LABEL OF UL OR ETL FOR THE SPECIFIC APPLICATION IN WHICH THEY ARE USED. 1.

FRANCIS J PHILADLEF	J MYERS RECREATION CENTER PHIA, PA					TLP PROJECT TLP OFFICE: F	r Number: 20 Philadelphia	114 A		TLP ISSUE DATE: 03/28/2023	FRANCIS J M PHILADLEPH	MYERS REC HIA, PA	REATION CENTER				TLP PROJECT I TLP OFFICE: PH	NUMBER: 201 HILADELPHIA	14		TLP ISSUE DATE: 03/28/2023
LIGHTIN	NG FIXTURE SCHEDULE										LIGHTING	G FIXTUR	E SCHEDULE								
TYPE	MTG. DESCRIPTION	DELIV	(ERED LUMENS OR	LIGHT SOURCE	OPTICS	WATTAGE (W)	VOLTS (V)	DIMMING PROTOCOL/RANGE ⁶	MANUFACTURER	CATALOG NUMBER	TYPE	MTG.	DESCRIPTION	DELIVERED LUMENS OR	LIGHT SOURCE COLOR/CCT/CRI	OPTICS	WATTAGE (W)	VOLTS (V)	DIMMING PROTOCOL/RANGE ⁶	MANUFACTURER	CATALOG NUMBER
A4	REC LED 2X4 EDGE LIT PANEL TROFFER, NO INCH DEEP ALUMINUM FRAME, 2 INCH D JUNCTION BOX, WHITE TRIM FINISH, FR WHITE ACRYLIC LENS, DRYWALL FRAM INTEGRAL DIMMING DRIVER.	LAMP MINAL 1/2 DEEP STEEL OSTED E KIT,	4640 LM	3500K	-	42 W	277	0-10V/10%	COOPER/METALUX ACUITY/LITHONIA CURRENT/COLUMBIA	24FPSL2SCT3-24-MED-080083889365-3500K +DF-24W-U EPANL SERIES CFP SERIES FLUXPANEL SERIES	B5A	PEND	SAME AS TYPE B5, EXCEPT 6 FEET LONG	5900 LM/FT	3500K	-	48 W	277	0-10V/1%	ACUITY/MARK COOPER/NEORAY PINNACLE	S4PD-LLP-MSL6-90CRI-35K-1000LMF-SCT-MIN1-FLL- MVOLT-WHTT-ZT-F2/144A-RDCY-WHTCY-WCRD DEFINE4 SERIES EDGE4 SERIES
A4-EM	REC SAME AS TYPE A4 EXCEPT WITH INTEGI EMERGENCY BATTERY BACKUP	RAL	4640 LM	3500K	-	42 W	277	0-10V/10%	COOPER/METALUX ACUITY/LITHONIA CURRENT/COLUMBIA SIGNIFY/DAYBRITE	24FPSL2SCT3-24-MED-080083889365-3500K +DF-24W-U + EL14W EPANL SERIES CFP SERIES FLUXPANEL SERIES	B5B	PEND	GAME AS TYPE B5 EXCEPT PROVIDE SYSTEM ENGTHS AS SHOWN ON DRAWINGS	975 LM/FT	3500K	-	8 W/FT	277	0-10V/1%	GAMALUX ACUITY/MARK COOPER/NEORAY PINNACLE	S4PD-LLP-[LENGTH]-90CRI-35K-1000LMF-SCT -MIN1-FLL-MVOLT-[FINISH]-ZT-F2/144A-RDCY -WHTCY-WCRD DEFINE4 SERIES EDGE4 SERIES
A13	REC LED LINEAR RECESSED SLOT, NOMINAL FOOT LONG X 4 3/8 INCH TALL STEEL H WITH EXTRUDED ALUMINUM TRIM, FLUS ACRYLIC SNAP-IN LENS, WHITE SATIN F INTEGRAL DIMMING DRIVER.	4 INCH X 4 OUSING SH SATIN INISH,	540 LM/FT	3500K	-	6 W/FT	277	0-10V/1%	ACUITY/MARK COOPER/NEORAY PINNACLE	SL4L-LOP-4FT-FLP-FL-80CRI-35K-600LMF -MIN1-277-[FINISH]-ZT DEFINE4 SERIES EDGE4 SERIES	B17	PEND I	ED ADJUSTABLE CYLINDER PENDANT, NOMINAL 1/2 INCH APERTURE X 10-3/4 INCH TALL ALUMINUM HOUSING, FIELD-ADJUSTABLE BLACK POWER CORD, ADJUSTABLE GIMBLE WTIH 360° ROTATION AND 45° VERTICAL ADJUSTMENT, 2LEAR LENS ACCESSORY, OVERALL MATTE BLACK	1300 LM	3500K	50°	20 W	277	0-10V/10%	GAMMALUX CSL LIGHTING ZANIBONI TECH LIGHTING	GB44D SERIES LP3-SFT-20-S-35-50-MB-CL-NL-BC-0 BONGO 3 PO SERIES ENTRA 3 SERIES
A13-EM	REC SAME AS TYPE A13 EXCEPT WITH INTEG	GRAL	540 LM/FT	3500K	-	6 W/FT	277	0-10V/1%	GAMMALUX ACUITY/MARK COOPER/NEORAY PINNACLE	GB44R SERIES SL4L-LOP-4FT-FLP-FL-80CRI-35K-600LMF -MIN1-277-1E10WLCP-[FINISH]-ZT DEFINE4 SERIES EDGE4 SERIES	B17-EM	PEND	ANISH, INTEGRAL DIMMING DRIVER.	1300 LM	3500K	50°	20 W	277	0-10V/10%	CSL LIGHTING ZANIBONI TECH LIGHTING	LP3-SFT-20-S-35-50-MB-CL-NL-BC-0-EM -1002 BONGO 3 PO SERIES ENTRA 3 SERIES
A17	REC LED DOWNLIGHT, NOMINAL 4 INCH DIAN APERTURE X 2 5/8 INCH TALL CAST ALU HOUSING, REGRESSED ACRYLIC LENS, WHITE FINISH, INTEGRAL DIMMING DRIV	METER IMINUM OVERALL /ER.	1100 LM	3500K	40°	15 W	120	TRIAC/10%	GAMMALUX DALS LIGHTING COOPER/HALO CURRENT/PRESCOLITE	GB44R SERIES RG4-CC-4-15W-1100LM-3500K-90-120V-40 -WHITE ML4 SERIES LBRA-RD SERIES	B17A B17A-EM	PEND 5	SAME AS TYPE B17, EXCEPT NARROWER BEAM SPREAD SAME AS TYPE B17A, EXCEPT PROVIDE REMOTE	1300 LM 1300 LM	3500K 3500K	30°	20 W 20 W	277	0-10V/10% 0-10V/10%	CSL LIGHTING ZANIBONI TECH LIGHTING CSL LIGHTING	LP3-SFT-20-S-35-30-MB-CL-BC-ST-0 BONGO 3 PO SERIES ENTRA 3 SERIES LP3-SFT-20-S-35-30-MB-CL-NL-BC-0-EM
A20	REC LED ROUND RECESSED VANDAL RESIS WALLWASHER, NOMINAL 3-1/2 INCH DIA APERTURE, 5-1/2 INCH TALL DIE-CAST A HOUSING, 6 INCH DIAMETER VANDAL RI ALUMINUM TRIM, 1/8 INCH THICK SOLIT SOFTENING LENS, 3/16 INCH THICK CLE POLYCARBONATE LENS, SEMI-SPECUL/ REFLECTOR, PROVIDE FRAME-IN HOUS BLACK PAINTED INTERIOR, TRIM FINISH SELECTED BY DESIGN PROFESSIONAL. DIMMING DRIVER. UL LISTED FOR WET	TANT METER ALUMINUM ESISTANT E AR CLEAR ING WITH ITO BE INTEGRAL LOCATION.	1000 LM	3500K	-	11 W	277	0-10V/1%	LIGHTHEADED COOPER/FAIL-SAFE ACUITY/GOTHAM	LUMINAIRE: 2-116-T-[FINISH]-BROWW-35-9010-WET HOUSING: D4B-FVR-R-T-3-P-277-BP FLD6B SERIES EVO6 VANDAL RESISTANT SERIES	B18	PEND	ED ADJUSTABLE CYLINDER PENDANT, NOMINAL 1/2 INCH APERTURE X 10-3/4 INCH TALL ALUMINUM HOUSING, FIELD-ADJUSTABLE BLACK POWER CORD, ADJUSTABLE GIMBLE WTIH 360° ROTATION AND 45° VERTICAL ADJUSTMENT, VALLWASH ACCESSORY, OVERALL MATTE BLACK SINSH INTEGRAL DIMMING DRIVER	1300 LM	3500K	50°	20 W	277	0-10V/10%	ZANIBONI TECH LIGHTING CSL LIGHTING ZANIBONI TECH LIGHTING	-1002 BONGO 3 PO SERIES ENTRA 3 SERIES LP3-SFT-20-S-35-50-MB-WW-NL-BC-0 BONGO 3 PO SERIES ENTRA 3 SERIES
A21	REC LED ROUND RECESSED VANDAL RESIS DOWNLIGHT, NOMINAL 3-1/2 INCH DIAM APERTURE, 5-1/2 INCH TALL DIE-CAST A HOUSING, 6 INCH DIAMETER VANDAL RI ALUMINUM TRIM, 1/8 INCH THICK SOLIT SOFTENING LENS, 3/16 INCH THICK CLE POLYCARBONATE LENS, SEMI-SPECUL/ REFLECTOR, PROVIDE FRAME-IN HOUS BLACK PAINTED INTERIOR, TRIM FINISH SELECTED BY DESIGN PROFESSIONAL. DIMMING DRIVER. UL LISTED FOR WET	TANT ETER ALUMINUM ESISTANT E AR CLEAR ING WITH I TO BE INTEGRAL LOCATION.	1000 LM	3500K	60°	11 W	277	0-10V/1%	LIGHTHEADED COOPER/FAIL-SAFE ACUITY/GOTHAM	LUMINAIRE: 2-116-T-CC-BRO60-35-9010-WET HOUSING: D4B-FVR-R-T-3-P-277-BP FLD6B SERIES EVO6 VANDAL RESISTANT SERIES	C1	SURF L	ED FLEXIBLE ENCAPSULATED NEON STRIPLIGHT, NOMINAL 1 INCH WIDE X 1 INCH TALL POLYURETHANE HOUSING WITH FROSTED DOT-FREE LENS, PROVIDE LENGTHS AS SHOWN DN ARCHITECTURAL DRAWINGS, PROVIDE CONTINUOUS LINE OF LIGHT ALONG ENTIRE SURFACE OF COVE, 2-1/2 INCH VERTICAL BEND RADIUS, INJECTION MOLDED BOTTOM POWER FEED, REMOTE DRIVER TO BE LOCATED IN SECURE LOCATION.	450 LM/FT	3500K	-	5 W/FT	277	0-10V/1%	LUMINII LLI DIODE LED QTRAN	FIXTURE: KBX-SF-V-35K-IBPF-IEC-[LENGTH] POWER SUPPLY: PDCU-D-[POWER]-24 LLI-N5.3W SERIES NEON BLAZE SERIES BOXA SERIES
A21A	REC SAME AS TYPE A21, EXCEPT WHITE FLA AND NO UL LISTING FOR WET LOCATION	NGE FINISH N	1000 LM	3500K	60°	11 W	277	0-10V/1%	LIGHTHEADED COOPER/FAIL-SAFE	LUMINAIRE: 2-116-T-01-BRO60-35-9010 HOUSING: D4B-FVR-R-T-3-P-277-BP FLD6B SERIES	Di		CONTRACTOR TO PROVIDE DETAILED GABRICATOR SHOP DRAWINGS INCLUDING SCALED DRAWINGS SHOWING THE LAYOUT AND DIMENSIONS OF ALL FIXTURE COMPONENTS, REMOTE DIMMABLE POWER SUPPLIES AND ACCESSORIES, THE METHOD OF INSTALLATION, ND BILL OF MATERIALS.	4700 LM	25004		10 W	277	0.101/	KENALI	
B1	SURF LED SURFACE MOUNTED WRAPAROUNI LUMINAIRE, NOMINAL 8 INCH WIDE X 4 F X 4 INCH TALL EXTRUDED ALUMINUM H 0.156 INCH THICK HIGH EMPACT EXTRU PEARLESCENT POLYCARBONATE LENS ALUMINUM END CAPS, TAMPER RESIST STAINLESS STEEL HARDWARE, INTEGR DIMMING DRIVER, INTEGRAL BATTERY I INTEGRAL OCCUPANCY SENSOR.	D FOOT LONG OUSING, DED , DIE-CAST ANT AL PACK,	4750 LM	3500K	-	45 W	277	0-10V/1%	ACUITY/GOTHAM KENALL ACUITY/LUMINAIRE LED COOPER/FAIL-SAFE	EVO6 VANDAL RESISTANT SERIES MLHA8-48-F-[FINISH]-PP-45L35K-DCC-DV-PEL-TL50 VPF8L SERIES HVSL8 SERIES	D17	SURF I	LED WALL MOUNTED VANITY, NOMINAL 5-1/2 INCH 41GH X 4 FOOT LONG X 3-3/4 INCH DEEP 5XTRUDED ALUMINUM HOUSING, 0.156 INCH THICK 41GH-IMPACT EXTRUDED PEARLESCENT POLYCARBONATE LENS, DIE-CAST END CAPS, TAMPER RESISTANT STAINLESS STEEL 4ARDWARE, INTEGRAL DIMMING DRIVER, NTEGRAL BATTERY PACK. MOUNTED 8 FEET 4BOVE FINISHED FLOOR.	110 LM/FT	3500K 3500K	-	49 W	120	NON-DIM	ACUITY/LUMINAIRE LED COOPER/FAIL-SAFE FEELUX	MLHA5V-48-F-[FINISH]-PP-45L35K-DUC-DV -LEL VPF4 SERIES HVSL4 SERIES FIXTURE: NDF3/5/10/15/20]-35K-120V-C90-FF ACCESSORIES: NDEOPC/VL + NDEDTC + NDE CAP +
B1A	SURF SAME AS TYPE B1, EXCEPT WALL MOUN	NTED	4750 LM	3500K	-	45 W	277	0-10V/1%	KENALL ACUITY/LUMINAIRE LED	MLHA8-48-F-[FINISH]-PP-45L35K-DCC-DV-PEL-TL50 VPF8L SERIES HVSL8 SERIES			WHICH WIDE ACOMINGS, FLUSH ACRYLIC LENS, SHOWN ON DRAWINGS, FLUSH ACRYLIC LENS, QUICK CONNECT ENDS FOR END-TO-END NSTALLATION. CONTRACTOR TO PROVIDE MOUNTING BRACKETS, END CAPS AND WIRING BOX AS REQUIRED FOR A COMPLETE SYSTEM.							BRUCK LIGHTING Q-TRAN	NDT-BRACKET1 + NDFBRACKET3 POWER: MHWB-ESL SABER SERIES Q-LINK SERIES
B1B	SURF SAME AS TYPE B1, EXCEPT 3 FOOT LEN	IGTH	4000 LM	3500K	-	45 W	277	0-10V/1%	COOPER/FAIL-SAFE KENALL ACUITY/LUMINAIRE LED	MLHA8-36-F-FINISH-PP-33L35K-DCC-DV-SP		(CONTRACTOR TO PROVIDE DETAILED CABRICATOR SHOP DRAWINGS INCLUDING SCALED DRAWINGS SHOWING THE LAYOUT AND DIMENSIONS OF ALL FIXTURE COMPONENTS, REMOTE DIMMABLE POWER SUPPLIES AND ACCESSORIES, THE METHOD OF INSTALLATION, AND BILL OF MATERIALS.								
B1C	SURF SAME AS TYPE B1, EXCEPT NO EMERGE	ENCY	4750 LM	3500K	-	45 W	277	0-10V/1%	KENALL ACUITY/LUMINAIRE LED	HVSL8 SERIES MLHA8-48-F-[FINISH]-PP-45L35K-DCC-DV -TL50 VPF8L SERIES HVSL8 SERIES	L1	SURF	LED WALLPACK, NOMINAL 17 INCH WIDE (12-1/4 INCH LONG X 6-3/4 INCH TALL DIE-CAST ALUMINUM HOUSING, REMOVABLE HINGED DOOR FRAME, REFLECTOR OPTIC, FINISH TO BE SELECTED BY DESIGN PROFESSIONAL, INTEGRAL DRIVER. UL LISTED FOR WET LOCATION.	2700 LM	4000K	(FORWARD THROW)	35 W	277		COOPER/MCGRAW- EDISON CURRENT/BEACON ACUITY/LITHONIA	IST-SA1-B-740-U-14F1-[FINISH]-CBP-1R RWL1 SERIES WST-LED SERIES
B2	PEND LED HIGHBAY, NOMINAL 16 INCH DIAME INCH TALL ALUMINUM HOUSING, FROST PRISMATIC ACRYLIC OPEN-BOTTOM RE WIRE GUARD ACCESSORY, OVERALL W FINISH, INTEGRAL DIMMING DRIVER. MO FOOT, 5 INCH ABOVE FINISHED FLOOR.	TER X 16 FED FLECTOR, HITE DUNTED 24	22,000 LM	3500K	-	160 W	277	0-10V	ACUITY/LITHONIA ATLANTIC LIGHTING KENALL	JCBL-24000LM-ACFR-MVOLT-GZ10-35K-80CRI -PM-WG-DWHXD LHB22 SERIES EPHB SERIES	P1	POLE	24/2 INCH DEEP X 2-1/2 INCH TALL EXTRUDED LUMINUM HOUSING, POLYCARBONATE LENS, MULLION MOUNT BRACKET, TAMPER RESISTANT SCREWS, VELVET BLACK FINISH, REMOTE DRIVERS FOR DUAL CIRCUIT SWITCHING, UL ISTED FOR WET LOCATION.	3400 LM	3500K	TYPE I	32 W	277	0-10V/10%	KENALL CGF SELUX	FNL6 SERIES LEDGE SERIES
B2-EM	PEND SAME AS TYPE B2, EXCEPT WITH INTEG EMERGENCY BATTERY BACKUP		22,000 LM	3500K	-	160 W	277	0-10V	ACUITY/LITHONIA ATLANTIC LIGHTING KENALL COOPER/METALUX	JCBL-24000LM-ACFR-MVOLT-GZ10-35K-80CRI -PM-WG-E10WCP-DWHXD LHB22 SERIES EPHB SERIES 4SI STPSI C-UNV			iominal 16 Inch Diameter Die-Cast Aluminum iousing. Nominal 6 Inch Long Arm With Tenon Adapter, Arm Extends Overall Ength To 24 Inch. Tempered Glass Lens, Inish To Be Selected By Design Professional. Integral Dimming Driver. IP65 Rated.							HESS COOPER/INVUE	CORDJ-[FINISH]-UNV POLE: A35-14-[FINISH]-T35 CC450 SERIES
B3-EM	NOMINAL 2-3/4 X 4 FOOT LONG X 3 INCH STEEL HOUSING, FROSTED POLYCARB LENS, WHITE HIGH-REFLECTIVE POWDE FINISH, INTEGRAL DIMMING DRIVER. UL FOR DAMP LOCATION.	I TALL ONATE ER COATED . LISTED	3500 LM	3500K	-	31 W	277	0-10V/10%	ACUITY/LITHONIA CURRENT/COLUMBIA SIGNIFY/DAYBRITE COOPER/METALUX	CSS LED SERIES CSL SERIES SDS SERIES 4SLSTPSLC-UNV-BSL10		 	POLE: NOMINAL 3-1/2 INCH DIAMETER X 14 FOOT TALL STRAIGHT ALUMINUM POLE. FULL BASE COVER, HAND HOLE AT BASE, OVERALL FINISH TO BE SELECTED BY DESIGN PROFESSIONAL. POLE IS CAPABLE OF SUSTAINING 90MPH WINDS WITH 1.3 GUST FACTOR. ANCHOR BOLT DETAIL TO BE COORDINATED WITH CIVIL AND OR/ STRUCTURAL								
B3A	EMERGENCY BATTERY BACKUP	NTED	3500 LM	3500K		31 W	277	0-10V/10%	ACUITY/LITHONIA CURRENT/COLUMBIA SIGNIFY/DAYBRITE COOPER/METALUX	CSS LED SERIES CSL SERIES SDS SERIES 4SLSTPSLC-UNV	P1A	POLE S	ENGINEER. SAME AS TYPE P1, EXCEPT TYPE III WIDE DISTRIBUTION	3400 LM	3500K	TYPE III (WIDE)	32 W	277	0-10V/10%	SELUX	LUMINAIRE: DSC4L-R3W-S1-5G350-35-[POWER CORD]-[FINISH]-UNV POLE: A35-14-[FINISH]-T35
B3A-EM	WALL SAME AS TYPE B3A, EXCEPT WITH INTE EMERGENCY BATTERY BACKUP	GRAL	3500 LM	3500K	-	31 W	277	0-10V/10%	ACUITY/LITHONIA CURRENT/COLUMBIA SIGNIFY/DAYBRITE COOPER/METALUX	CSS LED SERIES CSL SERIES SDS SERIES 4SLSTPSLC-UNV-BSL10	P1B	POLE	SAME AS TYPE P1, EXCEPT TYPE V ROUND DISTRIBUTION	3600 LM	3500K	TYPE V (ROUND)	32 W	277	0-10V/10%	COOPER/INVUE SELUX	ICS/ICM SERIES ICS/ICM SERIES LUMINAIRE: DSC4L-R5R-S1-5G350-35-[POWER CORD]-[FINISH]-UNV POLE: A35-14-[FINISH]-T35
B4	SURF LED SURFACE MOUNTED LINEAR SLOT,	NOMINAL 4	8000 LM	3500K	-	64 W	277	0-10V/1%	ACUITY/LITHONIA CURRENT/COLUMBIA SIGNIFY/DAYBRITE ACUITY/MARK	CSS LED SERIES CSL SERIES SDS SERIES S4LS-LLP-8FT-MSL8-90CRI-35K-1000LMF-										HESS COOPER/INVUE	CC450 SERIES ICS/ICM SERIES
B4-EM	INCH X 8 FOOT LONG LED LINEAR SLOT INCH TALL EXTRUDED ALUMINUM HOUS SATIN ACRYLIC LENS, FINISH TO BE SEL DESIGN PROFESSIONAL, INTEGRAL DIM DRIVER. SURF SAME AS TYPE B4, EXCEPT WITH TWO I	X 4 3/8 SING, FLUSH LECTED BY IMING NTEGRAL	8000 LM	3500K	-	64 W	277	0-10V/1%	COOPER/NEORAY PINNACLE GAMMALUX ACUITY/MARK	MIN1-MVOLT-[FINISH]-ZT DEFINE4 SERIES EDGE4 SERIES GB44D SERIES S4LS-LLP-8FT-MSL8-90CRI-35K-1000LMF-											
Dr			7000 1 14	35001/			077	0.401/402	COOPER/NEORAY PINNACLE GAMMALUX	MIN1-MVOLT-1E10WLCP-[FINISH]-ZT DEFINE4 SERIES EDGE4 SERIES GB44D SERIES S4DD LL D SET MSL 8 000DL 251/ 4000LME COT											
69	LED LINEAR DIRECT PENDANT, NOMINA WIDE X 4 INCH HIGH X 8 FOOT LONG EX ALUMINUM HOUSING, FLUSH FROSTED BOTTOM LENS, 5 INCH DIAMETER CANC AIRCRAFT CABLE SUSPENSION, WHITE CORD, OVERALL WHITE FINISH, INTEGR DIMMING DRIVER.	IL 4 INCH (TRUDED ACRYLIC)PY, POWER AL	/ 0UU LM	JOUUK		64 W	211	u-1UV/1%	COOPER/NEORAY PINNACLE	S4FD-LLF-OFI-MISLG-9UUKI-35K-10UULMF-SCT- MIN1-FLL-MVOLT-WHTT-ZT-F2/144A-RDCY -WHTCY-WCRD DEFINE4 SERIES EDGE4 SERIES GB44D SERIES											
									GAIVIMALUX	אייסט אדע אדע אדע אדע אדע אדע											

SHEET NUMBER:
E520
LJZU
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

SCHEDULES						
LIGHTING						
SHEET NAM	E:					
DATE:	4/7/2023					
CHECKED:	JC					
DRAWN:	LL					
FORMAT:	30" X 42"					

12" = 1'-0"

SCALE:

IMPROVEMENTS							
5800 Chester Ave Philadelphia, PA 19143							
PROJECT #:	2020						

FRANCIS J. MYERS **RECREATION CENTER** SITE AND BUILDING

\triangle	DATE:	DESCRIPTION:

v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

Suite 1910 v 267.217.1612 LIGHTING DESIGN
The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106

v 215.238.1644

Suite 300

v 610.554.6560

Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801

COST ESTIMATING

Dharam Consulting

1719 Chestnut Street

Philadelphia, PA 19103

ENVIRONMENTAL CONSULTANT

v 215.790.0727 www.groundreconsidered.com MEP/FP ENGINEER dbHMS 1500 Walnut St Philadelphia, PA 19102

Philadelphia, PA 19102

STRUCTURAL ENGINEER
David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604

CIVIL ENGINEER 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com David Mason & Associates

<u>ARCHITECT</u> DIGSAU

CITY OF PHILADELPHIA

1515 Arch Street, 10th Floor Philadelphia, PA 19102

Department of Parks and Recreation

DIGC

<u>CLIENT</u> REBUILD

OWNER

1515 Arch Street Mezzanine Level Philadelphia, PA 19104



SHEET NUMBER:
E521
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #:	2020				
SCALE:	12" = 1'-0"				
FORMAT:	30" X 42"				
DRAWN:	LL				
CHECKED:	JC				
DATE:	4/7/2023				
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SHEET NAM	E:				
LIGHTING CONTROL					
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JUNED	ULEJ				

SITE AND BUILDING **IMPROVEMENTS** 5800 Chester Ave Philadelphia, PA 19143

DESCRIPTION: FRANCIS J. MYERS RECREATION CENTER

v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801

<u>MEP/FP ENGINEER</u> dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN
The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106

v 215.238.1644

Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727

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123 S. Broad St

Suite 1130

123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER
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<u>OWNER</u> CITY OF PHILADELPHIA

Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> REBUILD

1515 Arch Street Mezzanine Level Philadelphia, PA 19104

DICCAL

FRANCIS MYERS RECREATION CENTER PHILADELPHIA, PA

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			LIGHTING CONTROL
SOO#	AREAS CONTROLLED	FUNCTIONALITY DURING PEAK HOURS	FUNCTIONALITY DURING OFF-PE/ HOURS
1	LARGE STORAGE	- OCCUPIED - AUTO ON TO 50% - MANUAL ADJUSTMENT TO 100% - UNOCCUPIED - AUTO OFF	- SAME AS PEAK HOURS
2	MEP, IT, UTILITY SPACES	- MANUAL ON - MANUAL OFF	- SAME AS PEAK HOURS
3	GYMNASIUM	- MANUAL ON TO HIGH END TRIM - MANUAL OFF - DAYLIGHT RESPONSIVE DIMMING	- SAME AS PEAK HOURS
4	CONNECTOR/LOBBY	- OCCUPIED - AUTO ON TO 80% - UNOCCUPIED - AUTO DIM TO 30% - MANUAL OFF - DAYLIGHT RESPONSIVE DIMMING	- SAME AS PEAK HOURS
5	CLASSROOMS	- OCCUPIED - MANUAL ON - UNOCCUPIED - AUTO OFF - DAYLIGHT RESPONSIVE DIMMING	- SAME AS PEAK HOURS
6	MULTIPURPORPOSE ROOM	- OCCUPIED - AUTO ON - UNOCCUPIED - AUTO OFF - DAYLIGHT RESPONSIVE DIMMING	- SAME AS PEAK HOURS
7	PRIVATE OFFICES	- OCCUPIED - MANUAL ON - UNOCCUPIED - AUTO OFF	- SAME AS PEAK HOURS
8	ADMIN & PREP KITCHEN	- OCCUPIED - MANUAL ON - UNOCCUPIED - AUTO OFF	- SAME AS PEAK HOURS
9	CORRIDORS	- OCCUPIED - AUTO ON TO 80% - UNOCCUPIED - AUTO DIM TO 30%	- SAME AS PEAK HOURS
10	RESTROOMS	- OCCUPIED - AUTO ON - UNOCCUPIED - AUTO OFF	- SAME AS PEAK HOURS
11	EXTERIOR/ SITE	- TIMECLOCK ON/OFF - PHOTOCELL ON WHEN LIGHT LEVELS ARE LOW ENOUGH	- SAME AS PEAK HOURS
12	SMALL STORAGE	- MANUAL ON TO 100% - UNOCCUPIED - AUTO OFF	- SAME AS PEAK HOURS
13	STAIRS	- OCCUPIED - AUTO ON TO 80% - UNOCCUPIED - AUTO DIM TO 30%	- SAME AS PEAK HOURS
14	CLOSETS	- OCCUPIED - AUTO ON TO 80% - UNOCCUPIED - AUTO OFF	- SAME AS PEAK HOURS

NOTES:

1. CEILING SENSOR SHALL PROVIDE OVERALL CONTROL FOR ALL ZONES WITHIN AREA. EMERGENCY LIGHTING LOCATED WITHIN DIMMING ZONES SHALL HAVE THE CAPABILITY TO DIM. 3. ALL DAYLIGHT RESPONSIVE DIMMING AMBIENT LEVELS TO BE REVIEWED WITH OWNER DURING COMMISSIONING FOR FINAL APPROVAL.

OPERATING HOURS:

PEAK HOURS Monday - Friday, 8:00AM TO 7:00PM

OFF-PEAK HOURS

Monday - Friday, 7:00PM TO 11:00PM Saturday - Sunday, 7:00PM TO 11:00PM

LIGHTING CONTROL SEQUENCE

		TLP PROJECT NUMBER: 20114	TLP ISSUE DATE: 03/31/2023
L SEQU	ENCE OF OPERATIONS		
EAK	PRIMARY DEVICES	COMMISSIONING	NOTES
	- DIMMING SWITCHES - CEILING OCCUPANCY SENSOR	- UNOCCUPIED TIMEOUT DELAY: 5 MINUTES	1, 2
	- ON/OFF SWITCH	- N/A	2
	- DIMMING SWITCHES WITH LOCKABLE BOX - CEILING DAYLIGHT SENSOR	- HIGH END TRIM: 50FC AVERAGE WITHIN PLAYING AREA. - DAYLIGHT RESPONSIVE DIMMING AVERAGE LEVEL: 50FC WITHIN PLAYING AREA.	2, 3
	- DIMMING SWITCHES - CEILING OCCUPANCY SENSOR - CEILING DAYLIGHT SENSOR	- UNOCCUPIED TIMEOUT DELAY: 20 MINUTES - LUMINAIRES TO REMAIN ON AT 30% WHEN UNOCCUPIED - DAYLIGHT RESPONSIVE DIMMING AMBIENT LEVEL: 30EC	1, 2, 3
	- DIMMING SWITCHES - CEILING VACANCY SENSOR - CEILING DAYLIGHT SENSOR - SENSOR & SWITCH CONTROLLED RECEPTACLES	- UNOCCUPIED TIMEOUT DELAY: 15 MINUTES	1, 2
	- DIMMING SWITCHES - CEILING OCCUPANCY SENSOR - CEILING DAYLIGHT SENSOR - SENSOR CONTROLLED RECEPTACLES	- DAYLIGHT RESPONSIVE DIMMING AVERAGE LEVEL: 40FC - UNOCCUPIED TIMEOUT DELAY: 15 MINUTES	1, 2, 3
	- DIMMING SWITCHES - CEILING VACANCY SENSOR	- UNOCCUPIED TIMEOUT DELAY: 15 MINUTES	1, 2
	- DIMMING SWITCHES - CEILING VACANCY SENSOR - SENSOR & SWITCH CONTROLLED RECEPTACLES	- UNOCCUPIED TIMEOUT DELAY: 15 MINUTES	1, 2
	- CEILING OCCUPANCY SENSOR	- UNOCCUPIED TIMEOUT DELAY: 15 MINUTES	1, 2
	- CEILING OCCUPANCY SENSOR	- UNOCCUPIED TIMEOUT DELAY: 20 MINUTES	1, 2
	- ON/OFF SWITCH - EXTERIOR PHOTOCELL	- TIMECLOCK ON 30-MINUTES BEFORE SUNSET - TIMECLOCK OFF 30-MINUTES AFTER SUNRISE - PHOTOCELL ON WHEN LIGHT LEVELS ARE 10FC OR LESS	N/A
	- DIMMING SWITCH WITH INTEGRAL VACANCY SENSOR	- UNOCCUPIED TIMEOUT DELAY: 5 MINUTES	1, 2
	- FIXTURE ONBOARD OCCUPANCY SENSOR	- UNOCCUPIED TIMEOUT DELAY: 15 MINUTES	1, 2
	- FIXTURE ONBOARD OCCUPANCY SENSOR	- UNOCCUPIED TIMEOUT DELAY: 15 MINUTES	1, 2

1.	CONTROL SYSTEM TO BE PRODUCTS BY LUTRON ELECTRONICS. AT A MINIMUM, SYSTEM SHALL HAVE THE FOLLOWING CAPABILITIES:
	 PROVIDE AUTOMATED ASTRONOMIC AND REALTIME TIMECLOCK PRESET LIGHTING CONTROL.
	- PROVIDE DIMMING RANGE FOR EACH FIXTURE TYPE AS INDICATED IN LIGHTING FIXTURE SCHEDULE.
	- EACH OF THE PRESET BUTTONS ON THE REMOTE BUTTON STATIONS WILL BE ASSIGNABLE TO A PRESET AND SHALL ACTIVATE THE PRESET INTENSITIES AND SPEED FOR ALL FIXTURES ASSIGNED TO THAT PRESET. MASTER RAISE/LOWER WILL PROPORTIONALLY INCREASE OR DECREASE INTENSITY OF ALL SOURCES THAT ARE ACTIVE IN THE LIVE PRESET.
	- DIMMING OF LIGHTING FIXTURES DESIGNATED TO BE CONTROLLED BY EMERGENCY LIGHTING SYSTEM SHALL BE PROGRAMMED TO OPERATE ON THE SAME CONTROL ZONE AS NORMAL LIGHTING FIXTURES. LIGHTING FIXTURES DESIGNATED TO BE CONTROLLED BY EMERGENCY LIGHTING SYSTEM SHALL BE DIMMABLE FOR THE FULL RANGE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE, BUT IN CASE OF EMERGENCY WILL DEFAULT TO FULL-ON CONDITION.
2.	LOCATION OF ALL CONTROL AND INTERFACE DEVICES TO BE COORDINATED WITH PROJECT ELECTRICAL ENGINEER, DESIGN PROFESSIONAL, AND THE OWNER.
3.	FINISHES TO BE COORDINATED WITH DESIGN PROFESSIONAL PRIOR TO RELEASE OF ORDER.
4.	ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY MOUNTING FASTENERS AND EQUIPMENT FOR COMPLETE AND CODE-COMPLIANT INSTALLATION.
5.	ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CAT-6 ETHERNET CABLE, LOW VOLTAGE WIRING, MISCELLANEOUS WIRING, AND HARDWARE AS RECOMMENDED BY MANUFACTURER FOR FULLY OPERATIONAL LIGHTING SYSTEM.
6.	INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
7.	PC FOR PROGRAMMING OF LIGHTING CONTROL SYSTEM SHALL MEET MINIMUM SYSTEM REQUIREMENTS AS SPECIFIED BY CONTROL SYSTEM MANUFACTURER. PC TO BE PROVIDED BY CONTRACTOR, PROGRAMMING SOFTWARE PROVIDED BY CONTROL MANUFACTURER.
8.	ELECTRICAL CONTRACTOR TO PROVIDE SUBMITTALS FOR REVIEW BY DESIGN PROFESSIONAL. SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL SYSTEM COMPONENTS WITH CATALOG NUMBERS ANNOTATED; CONTROL SINGLE-LINE INDICATING LOCATION OF ALL DEVICES, CATALOG NUMBER OF ALL DEVICES, TYPE AND SIZE OF WIRING FOR DEVICE INTERCONNECTIONS, DIMENSIONS OF ALL CONTROL DEVICES, CONTROL DEVICE TYPE AS INDICATED ON ELECTRICAL DRAWINGS; LOAD SCHEDULE WITH ROOM/AREA, CONTROL ZONE, FIXTURE TYPE AND QUANTITY, LOAD TYPE, WATTAGE, VOLTAGE, AND CIRCUITING INDICATED; LOAD SCHEDULE INFORMATION TO BE COMPLETED BASED ON APPROVED LIGHTING FIXTURE SUBMITTALS; SEQUENCE OF OPERATIONS; AND A COMPLETE BILL OF MATERIALS FOR REVIEW BY DESIGN PROFESSIONAL PRIOR TO RELEASE OF ORDER.
9.	ELECTRICAL CONTRACTOR SHALL PARTICIPATE IN AT LEAST ONE (1) COORDINATION MEETING WITH A REPRESENTATIVE OF THE SELECTED LIGHTING CONTROL SYSTEM MANUFACTURER AND DESIGN TEAM TO REVIEW ITEMS SUCH AS, BUT NOT LIMITED TO, LOCATION AND QUANTITY OF POWER/DATA DEVICES, CABLE RUN LENGTHS AND TYPES,

CONTROL SYSTEM NOTES:

1) LIGHTING CONTROL NOTES NTS

LAYOUTS, AND FASTENERS.

10.1. WATTSTOPPER CONTROLS

10.2. ACUITY CONTROLS

10. ACCEPTABLE ALTERNATE MANUFACTURERS:

LOAD TYPE 0-10V: 0-10 VOLT DIMMING LOAD TYPE (4-WIRE)

ACCEPTANCE TESTING & PROGRAMMING:

- 1. UPON COMPLETION OF INSTALLATION AND INITIAL TESTS, ACCEPTANCE TESTING SHALL BE WITNESSED BY THE DESIGN PROFESSIONAL AND/OR OWNER'S REPRESENTATIVE.
- 2. ACCEPTANCE TESTING WILL INCLUDE OPERATION OF EACH MAJOR SYSTEM AND ANY OTHER COMPONENTS DEEMED NECESSARY. ELECTRICAL CONTRACTOR WILL ASSIST IN THIS TESTING AND PROVIDE ANY TEST EQUIPMENT REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE AT LEAST ONE (1) TECHNICIAN AVAILABLE FOR THE ENTIRE TESTING AND PROGRAMMING PERIOD (DAY AND NIGHT), TO ASSIST THE CONTROL SYSTEM VENDOR'S TECHNICIAN WITH TESTS, ADJUSTMENTS, AND FINAL MODIFICATIONS. TOOLS AND MATERIAL REQUIRED TO MAKE ANY NECESSARY REPAIRS, CORRECTIONS, OR ADJUSTMENTS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. TESTING PROCESS IS ESTIMATED TO TAKE A MINIMUM OF THREE (3) DAYS.
- 3. THE FOLLOWING PROCEDURES WILL BE PERFORMED ON EACH SYSTEM:
- A. CONTROL FUNCTIONS SHALL BE CHECKED FOR PROPER OPERATION, FROM CONTROLLING DEVICES TO CONTROLLED DEVICES.
- B. ADJUST, BALANCE, AND ALIGN EQUIPMENT FOR OPTIMUM QUALITY AND TO MEET THE MANUFACTURER'S PUBLISHED SPECIFICATIONS AND RECORD THESE SETTINGS, IN THE SYSTEM OPERATION AND MAINTENANCE MANUAL.
- C. IN THE EVENT THE NEED FOR FURTHER ADJUSTMENT OR WORK BECOMES EVIDENT DURING ACCEPTANCE TESTING, THE ELECTRICAL CONTRACTOR WILL CONTINUE TO WORK UNTIL THE SYSTEM IS ACCEPTABLE AT NO ADDITION TO THE CONTRACT PRICE. IF APPROVAL IS DELAYED BECAUSE OF DEFECTIVE EQUIPMENT, OR FAILURE OF EQUIPMENT OR INSTALLATION TO MEET THE REQUIREMENTS OF THESE SPECIFICATIONS, THE INSTALLER WILL PAY FOR ADDITIONAL TIME AND EXPENSES OF THE DESIGN PROFESSIONAL OR OWNER'S REPRESENTATIVE.
- 4. PROVIDE ON-SITE VISITS BY CONTROL SYSTEM VENDOR'S APPLICATION ENGINEER AND SYSTEMS PROGRAMMER TO INSPECT, START-UP, COMMISSION, AND PROGRAM THE LIGHTING SYSTEM IN ORDER TO PROVIDE A COMPLETE, FULLY-FUNCTIONING LIGHTING SYSTEM. ON-SITE VISIT TO INCLUDE REVIEW OF DESIGN INTENT, FINE-TUNING OF SCENE LEVEL PROGRAMMING AND NECESSARY ADJUSTMENTS TO TIMECLOCKS. COMMISSIONING ACTIVITIES WILL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
- A. INSTRUCT THE OWNER'S PERSONNEL ON THE USE, OPERATION, PROGRAMMING, AND MAINTENANCE OF THE SYSTEM. REFER TO DEMONSTRATION NOTES FOR DETAILS.
- B. PROGRAM THE INSTALLED SYSTEM WITH A MINIMUM OF FOUR (4), PRESET SCENES THAT ARE DESIGNED TO THE OWNER'S REQUIREMENTS. EACH SCENE MUST BE DEMONSTRATED LIVE FOR OWNER'S APPROVAL.
- C. UPON SUCCESSFUL COMPLETE OF STEPS "A" AND "B" ABOVE, PROVIDE OWNER A WRITTEN CERTIFICATION THAT THE SYSTEM HAS BEEN COMMISSIONED PER THE METHOD DESCRIBED ABOVE AND THAT IT IS FULLY OPERATIONAL.

DEMONSTRATION & TRAINING:

1. PROVIDE EIGHT (8) HOURS INSTRUCTION TO THE OWNER'S REPRESENTATIVE DESIGNATED STAFF ON THE USE, OPERATION AND MAINTENANCE OF THE SYSTEM, SCHEDULED AS A MINIMUM OF TWO (2) SEPARATE SESSIONS, BY AN INSTRUCTOR FULLY KNOWLEDGEABLE AND QUALIFIED IN SYSTEM OPERATION. THE SYSTEM REFERENCE MANUALS SHOULD BE COMPLETE AND AVAILABLE DURING THESE DEMONSTRATIONS/INSTRUCTION.

2. TRAINING SCHEDULES:

- A. TRAINING SHOULD BE ASSUMED TO TAKE PLACE ON THE PROJECT SITE;
- B. TRAINING SHOULD BE SCHEDULED TO BE NON-OVERLAPPING, UNLESS AGREED TO BY THE OWNER;
- C. ACTUAL TRAINING SCHEDULE SHALL BE BY AGREEMENT WITH OWNER. DO NOT ASSUME THAT TRAINING WILL OCCUR OVER EIGHT (8) HOUR DAYS. IT IS MORE LIKELY THAT TRAINING WILL BE SCHEDULED IN 4 HOUR INCREMENTS; PERHAPS OVER A PERIOD OF WEEKS OR EVEN MONTHS;
- D. IN THE EVENT THAT A PORTION OF THE TRAINING TIME IS OCCUPIED IN TROUBLESHOOTING THE EQUIPMENT INSTALLATION, THEN THE TRAINING TIME SHALL BE EXTENDED AN EQUAL AMOUNT OF TIME AT A TIME MUTUALLY AGREED TO WITH OWNER;
- E. THE FOLLOWING IS A GENERAL IDEA OF THE TRAINING "CURRICULUM": • A GENERAL FAMILIARIZATION OF EACH MAJOR DEVICE.
- AN EXPLANATION OF HOW THE DEVICE INTERFACES TO THE REST OF THE SYSTEM (INCLUDING REMOTE CONTROLS, DATA CONNECTIONS; TIMING REQUIREMENTS AND THE LIKE). • GENERAL TRAINING ON OPERATING THE SYSTEM:
- SPECIFIC TRAINING ON DEVICE OPERATION.
- SAVING INFORMATION; BACKING INFORMATION UP (INCLUDING A REVIEW OF THE PROPER PROCEDURES FOR BACKING UP. BASIC TROUBLESHOOTING
- HOW TO UPGRADE SOFTWARE; PRECAUTIONS TAKEN WHILE DOING (E.G. BACKING-UP EXISTING SOFTWARE, DON'T BE THE FIRST ONE TO TRY THE NEW SOFTWARE ON GAME DAY).

- TIES:
- CAND REALTIME TIMECLOCK PRESET

- (TURE TYPE AS INDICATED IN LIGHTING
- I THE REMOTE BUTTON STATIONS WILL

- NED TO THAT PRESET. MASTER

- ALL ACTIVATE THE PRESET INTENSITIES

- INCREASE OR DECREASE INTENSITY OF

SHEET NUMBER:
E522
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #:	2020
SCALE:	12" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	LL
CHECKED:	JC
DATE:	4/7/2023
SHEET NAM	E:
LIGHTI	NG CONTROL

IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

SCHEDULES

FRANCIS J. MYERS **RECREATION CENTER** SITE AND BUILDING

\triangle	DATE:	DESCRIPTION:

v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

LIGHTING DESIGN
The Lighting Practice 600 Chestnut Street Suite 772

Philadelphia, PA 19106

COST ESTIMATING

Dharam Consulting

1719 Chestnut Street

Philadelphia, PA 19103

ENVIRONMENTAL CONSULTANT

v 215.238.1644

Suite 300

v 610.554.6560

Brightfields, Inc.

801 Industrial Street

Wilmington, DE 19801

v 215.790.0727 www.groundreconsidered.com MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612

Philadelphia, PA 19102

Suite 604

STRUCTURAL ENGINEER
David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street

www.davidmason.com v 215.375.6059

Philadelphia, PA 19107 v 215.627.0808 www.digsau.com CIVIL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

<u>ARCHITECT</u> DIGSAU 340 North 12th Street, Suite 421

OWNER CITY OF PHILADELPHIA

Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> REBUILD

1515 Arch Street Mezzanine Level Philadelphia, PA 19104







SHEET NUMBER:
E600
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: As indicated 30" X 42" FORMAT: DRAWN: CHECKED: JC DATE: 4/7/2023 SHEET NAME:

RECREATION CENTER SITE AND BUILDING **IMPROVEMENTS**

5800 Chester Ave Philadelphia, PA 19143

ELECTRICAL

DETAILS

FRANCIS J. MYERS

DESCRIPTION:

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<u>owner</u> City of Philadelphia

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NICC

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- 1. PROVIDE A FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION FOR EACH ELEVATOR PER THE
- NATIONAL ELECTRICAL CODE (ANSI-NFPA 70) WITH FEEDER OR BRANCH WIRING TO THE CONTROLLER (NEC 620-51, 620-61(D), AND 620-62 MUST BE PROVIDED. FUSES ARE TO BE CURRENT LIMITING CLASS RK1 OR EQUIVALENT. CIRCUIT BREAKERS ARE TO HAVE CURRENT LIMITING
- CHARACTERISTICS EQUIVALENT TO CLASS RK1 FUSES. FUSES OR CIRCUIT BREAKERS ARE TO BE TIME DELAY TO COVER THE FULL LOAD UP ACCELERATING CURRENT AS LISTED PER THE ELEVATOR MANUFACTURER'S POWER SUPPLY FORM. 2. WHEN A MACHINE ROOM IS USED AND WHERE PRACTICAL, DISCONNECTS SHALL BE LOCATED ADJACENT TO THE DOOR OF THE MACHINE ROOM
- ENCLOSURE. WHEN A MACHINE SPACE IS USED, DISCONNECTS OR CIRCUIT BREAKERS SHALL BE LOCATED BEHIND THE DOOR OF THE MACHINE SPACE PER OTIS LAYOUT. BRANCH CIRCUIT WIRING TO EACH CONTROLLER (NEC 620-53) MUST BE PROVIDED.

- 3. FOR MACHINE ROOM APPLICATIONS, A CONVENIENCE OUTLET AND A SUITABLE LIGHT, OF NOT LESS THAN 200 LUX (19FC) AS MEASURED AT FLOOR LEVEL MUST BE PROVIDED IN THE MACHINE ROOM WITH A LIGHT SWITCH LOCATED WITHIN 18" (456 MM) OF LOCK JAMB SIDE OF MACHINE ROOM
- PREVENT CONTACT AND ACCIDENTAL BREAKAGE.
- INTERCOMMUNICATING STATIONS MUST BE PROVIDED.

- ELEVATORS AT A TIME AT FULL RATED SPEED AND RATED LOAD.





3. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF THE DUCT SMOKE

DETECTORS.

SHEET NUMBER:
E601
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: 12" = 1'-0" 30" X 42" FORMAT: DRAWN: CHECKED: JC DATE: 4/7/2023 SHEET NAME: ELECTRICAL

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING **IMPROVEMENTS**

5800 Chester Ave

DETAILS

Philadelphia, PA 19143

DATE: DESCRIPTION:

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OWNER CITY OF PHILADELPHIA

Department of Parks and Recreation 1515 Arch Street, 10th Floor

DICCAL

		ΔF	BREVIATION	SYSTEM NAME
			DCW	DOMESTIC COLD WATER
			DHW	DOMESTIC HOT WATER
			DHWR	DOMESTIC HOT WATER RETURN
			PW	NON POTABLE WATER
			SAN	SANITARY
			ST	STORM
			STO	STORM OVERFLOW
IBOLS	LIST		•	
BOL	DESCRIPTION	SYMBOL	DESCRIPTION	
¥	ANGLE GATE VALVE	• • •	NON-FREEZE WALL HYDRA	NT
1 ↓	ALARM CHECK VALVE	-\$-	OS&Y VALVE	
≫—	BALANCING COCK	TS	OS&Y WITH TAMPER SWIT	СН
N°Ю́-	BALANCING VALVE		P-TRAP	
ю́—	BALL VALVE / ISOLATION VALVE	\Diamond	PRESSURE GAUGE	
\ ↓ -⊧			PIPE CAP	
\searrow			PUMP (TYPICAL)	
×- >	ELBOW DOWN		ROOF/YARD HYDRANT	
-0	ELBOW UP		SHUT-OFF VALVE	
_		+>+	STRAINER	
` 	FIRE ALARM BELL		SIAMESE FIRE DEPT. CONN	NECTION
			TAMPER SWITCH	
C-R/S	FIRE EXTINGUISHER RECESSED OR SURFACE		TEE DN	
	FLOOR CLEAN OUT	-0-	TEE UP	
► FS	FLOW ARROW		THERMOMETER	
	FLOW SWITCH		UNION	
	GLOBE VALVE		WALL FIRE PUMP TEST HE	ADER
	HO2F RIR		WALL/PIPE CLEAN OUT	
BF	INLINE BACK FLOW PREVENTER		WALL SLEEVE	
	MIXING VALVE			
NS	NON SPRINKLED AREA			
	NEW CONNECTION			

	PLUMBING ABBREVIATIONS
KEY NAME	COMMENT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLD	BUILDING
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CM	COFFEE MAKER
CO	CLEANOUT
CSW	
DN	DOWN
DT	FOUNDATION DRAIN THE
DV	DRAIN VALVE
DWG	DRAWING
DWS	DOMESTIC WATER SERVICE
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
EP	ELEVATOR PUMP
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF ELEV	FINISH FLOOR ELEVATION
FPC	FIRE PROTECTION CONTRACTOR
GF	
GPM	
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MB	MOP BASIN
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NFWH	NON FREEZE WALL HYDRANT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
Р	PUMP
PC	PLUMBING CONTRACTOR
PCP	
PG	
PSI	
PVC	
PW/	PRESSURIZED WASTE
REX	REMOVE EXISTING
RP	RECIRCULATION PUMP
SAIN	SANITARY WASTE
SK	SINK
SP	SUMP PUMP
SPEC	SPECIFICATION
ST	STORM, PUMP DISCHARGE TO MEET
	PRESSURIZED WASTE PIPING
TOD	
IQP	VALVE
TBD	TO BE DETERMINED
TDH	TOTAL DYNAMIC HEAD
TEMP or T	TEMPERATURE
THX	THERMAL EXPANSION TANK
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
VTR	
W/	
WC	
•	DEGREE
°F	DEGREES FAHRENHFIT
ø	DIAMETER

GENERAL PLUMBING NOTES: APPLICABLE TO ALL PLUMBING DRAWINGS

- 1. DEFINITIONS A. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION.
- B. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER. C. PROVIDE" MEANS TO "FURNISH" AND "INSTALL".
- D. "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.
- 2. CODES A. THE WORK SHALL COMPLY WITH LATEST PHILADELPHIA BUILDING CODE. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE. AMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING. THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.
- 3. INTERPRETATION OF THE DOCUMENTS A. THE PLUMBING CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE PLUMBING CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE PLUMBING CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.
- A. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC. AS SHOWN ON THE DRAWINGS DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED.
- B. THE PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EXISTING AND NEW REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE PLUMBING CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. ALL CHANGES TO EXISTING OR NEW PLUMBING EQUIPMENT, PIPES, FITTINGS, ETC. SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN THE COMPLETION DATE OF THE PROJECT.
- C. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
- D. THE PLUMBING CONTRACTOR SHALL SUBMIT SKETCHES TO ARCHITECT FOR APPROVAL, PRIOR TO MAKING ANY BEAM PENETRATIONS.
- E. COORDINATE & VERIFY WITH GENERAL CONTRACTOR AND RELATED DISCIPLINES PRIOR TO START OF ANY WORK, ALL WORK TO BE PERFORMED INSIDE OF THE 5'-0" BUILDING PERIMETER LIMITS OF CONSTRUCTION AND COORDINATED WITH OTHER TRADES TO MATCH WORK OUTSIDE.
- F. ALL FLOOR MOUNTED EQUIPMENT NOT PROVIDED ON A SKID IS TO BE INSTALLED ON 4" THICK CONCRETE HOUSEKEEPING PAD. G. THE PLUMBING CONTRACTOR SHALL GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO THE GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL
- SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL ALL FINISH REQUIREMENTS PRIOR TO INSTALLATION. THE PLUMBING CONTRACTOR SHALL FURNISH THE ACCESS PANELS. THE GENERAL CONTRACTOR SHALL INSTALL THE ACCESS PANELS.
- H. ALL PIPING, VALVES AND DEVICES SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY OR ANY PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT.
- 5. SITE EXAMINATION

4. COORDINATION

- A. THE PLUMBING CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE PLUMBING CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE PLUMBING CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- B. WATER PRESSURE AND SUPPLY INFORMATION: FIELD VERIFY ALL PRESSURES AND CAPACITIES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW TEST INFORMATION. C. CATCH BASINS AND MANHOLES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR.
- 6. PERMITS A. THE PLUMBING CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENSES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE PLUMBING WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.
- 7. SAFETY A. THE PLUMBING CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.
- B. ALL PLUMBING ELEMENTS THAT ARE IN CONTACT WITH POTABLE / DRINKING WATER SHALL BE NSF 61 CERTIFIED.
- 8. CONTRACTOR'S DRAWING REVIEW A. ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINISHED CEILING HEIGHTS, AND LOCATION OF WALL, ROOF, AND FLOOR OPENINGS. PIPE LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS.
- B. THE PLUMBING CONTRACTOR SHALL CONFIRM THAT PIPE LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.
- 9. STATEMENT OF WORK A. THE PLUMBING CONTRACTOR SHALL PROVIDE THE COMPLETE PLUMBING INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. B. PRIOR TO COMMENCEMENT OF WORK, THE PLUMBING CONTRACTOR SHALL SUBMIT FOR
- REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. C. THE PLUMBING CONTRACTOR SHALL REMOVE AL EXISTING EQUIPMENT AND MATERIALS
- PERTAINING TO THEIR CONTRACT AS SPECIFIED OR AS REQUIRED WEATHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK.
- D. THE PLUMBING CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES. RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION: FAILURE TO DO SO BEFORE CONDUCTING WORK WILL NOT CONSTITUTE LACK OF RESPONSIBILITY ON THE PART OF THE CONTRACTOR, AND ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD
- E. DISRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, AND SHALL BE PERFORMED AT A TIME AND MANOR SO AS TO CAUSE THE OWNER A MINIMUM OF

SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

INCONVENIENCE.

10. WORK PERFORMANCE REQUIREMENTS A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY CODE.

- B. ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING END OF EACH WORK DAY.
- C. ALL PIPING PASSING THRU FLOORS, WALLS, CEILINGS OR ROOF SHALL HAVE A DUCTILE IRON PIPE SLEEVE INSTALLED AROUND THE PIPE AND/OR INSULATION. SLEEVES THROUGH FOUNDATION WALLS SHALL BE AT LEAST 2 PIPE SIZES LARGER THAN THE SERVICE PIPE.
- D. PROVIDE AN ESCUTCHEON PLATE AROUND PENETRATIONS EXPOSED TO VIEW. ESCUTCHEON PLATES SHALL BE LARGE ENOUGH TO COVER THE ENTIRE HOLE. ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE WALL/FLOOR/ROOF FIRE & INSULATION RATINGS.
- E. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES.
- F. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. G. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE
- MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE. H. TRENCHING, EXCAVATION, AND BACKFILL OPERATIONS SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODE.
- 11. CUTTING AND PATCHING
- A. ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THE PLUMBING CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE. PATCH ALL DISTURBED WALLS, CEILINGS AND FLOORS TO MATCH ADJACENT SURFACES AS NECESSARY
- 12. FIRESTOPPING A. ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE-STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).
- B. PIPES WHICH PASS THROUGH EXISTING AND NEW FIRE-RESISTIVE BARRIERS, INCLUDING FLOOR SLABS AND WALLS, SHALL BE FIRE SEALED TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTIVE BARRIER. ALL EXPOSED PIPES PASSING THROUGH A WALL, CEILING OR FLOOR SHALL HAVE CHROME ESCUTCHEON PLATES.
- **13. TEMPORARY PROVISIONS** A. THE PLUMBING CONTRACTOR SHALL PROVIDE TEMPORARY WATER SUPPLY MEANS DURING CONSTRUCTION. THE PLUMBING CONTRACTOR SHALL COORDINATE TEMPORARY POWER PROVISIONS WITH THE ELECTRICAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.
- B. THE PLUMBING CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE PROVISIONS BETWEEN THE START OF CONSTRUCTION UNTIL SUCH TIME THAT THE BUILDING CAN DRAIN, AS INDICATED IN THE CONSTRUCTION DOCUMENTS PLUMBING CONTRACTOR SHALL COORDINATE ALL TEMPORARY POWER PROVISIONS WITH THE ELECTRICAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.
- 14. EQUIPMENT A. THE PLUMBING CONTRACTOR SHAL PROVIDE PROPER WORKING CLEARANCE IN FRONT AND AROUND EQUIPMENT PER THE MANUFACTURERS RECOMMENDATIONS.
- 15. DOMESTIC WATER A. ALL WATER SUPPLIED TO EQUIPMENT BY OTHER TRADES SHALL HAVE AN ISOLATION VALVE AND AN APPROVED BACKFLOW PREVENTER WHICH SHALL BE SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- B. ALL DOMESTIC WATER SUPPLIES TO FIXTURES AND EQUIPMENT SHALL HAVE AIR CHAMBERS OR MANUFACTURED WATER HAMMER ARRESTORS.
- C. ALL WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED, INCLUDING ALL PIPING ABOVE CEILINGS, IN PIPE CHASES, AND IN WALLS. REFER TO SPECIFICATIONS FOR TYPE AND THICKNESS OF INSULATION. PROVIDE VALVE HANDLE EXTENSIONS ON ALL INSULATED PIPING
- D. ALL HOT WATER SUPPLY PIPING SHALL BE INSTALLED TO COMPENSATE FOR EXPANSION OF THE PIPE BY INSTALLING PIPE ANCHORS, GUIDES, EXPANSION JOINTS, PIPE OFFSETS, OR LOOPS. EXPANSION JOINTS ARE TO ACCOMMODATE THREE AXIS OF MOVEMENT.
- E, ALL INTERIOR AND EXTERIOR HOSE BIBS / WALL HYDRANTS, ROOF HYDRANTS, ETC, SHALL RECEIVE WATER SUPPLY DOWNSTREAM OF A STRAINER AND DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER INSTALLED INSIDE THE BUILDING AT NO MORE THAN 48" ABOVE THE FLOOR AND ACCESSIBLE TO MAINTENANCE.
- F. MOP SINKS / SERVICE SINKS WITH HOSE THREADED FAUCETS SHALL HAVE A VACUUM BREAKER ON THE SUPPLY AFTER THE VALVES, LOCATED 7'-6" ABOVE FINISHED FLOOR G. PROVIDE DUAL CHECK VALVE FOR ALL FEEDS TO ICE MAKERS, COFFEE MAKERS, AND DISHWASHERS.
- H. PROVIDE A REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR ALL CHEMICAL DISPENSING SYSTEMS AT MOP/SERVICE SINKS AND THREE COMPARTMENT SINKS.
- I. EACH GROUP OF FIXTURES SUPPLIED WITH A BRANCH FROM THE MAIN SHALL HAVE AN ISOLATION VALVE NEAR THE POINT OF CONNECTION TO THE MAIN. ALL EQUIPMENT SUPPLIED BY COLD AND/OR HOT WATER SHALL HAVE AN ISOLATION VALVE ON THE WATER SUPPLY.
- J. PITCH ALL SUPPLY AND RETURN LINES TO DRAIN COMPLETELY THROUGH LOWER EQUIPMENT, FIXTURES, UNIONS, AND DRAIN VALVES.
- K. PROVIDE MANUAL AIR VENTS AIR A THE TOP OF ALL COLD AND/OR HOT WATER MAINS. L. INSTALL A 1/2" DRAIN VALVE WITH 3/4" HOSE THREAD AND VACUUM BREAKER OUTLET IN ALL MAIN PIPING RUNS WHICH WOULD NOT BE ABLE TO DRAIN THRU A LOWER PIECE OF
- EQUIPMENT. M. ALL WATER DISTRIBUTION SYSTEMS, POTABLE AND NON-POTABLE, SHALL BE IDENTIFIED BY COLOR MARKING OR METAL TAGS AS REQUIRED BY ASME A13.1.
- N. COPPER PIPE ABOVE GROUND SHALL BE (TYPE L) MINIMUM, SWEAT WITH WROUGHT FITTINGS
- O. PROVIDE UNIONS AND/OR FLANGES TO DISCONNECT ALL PERTINENT EQUIPMENT INCLUDING BUT NOT LIMITED TO PUMPS, WATER HEATERS, TANKS, FILTERS AND VALVE

- 16. SANITARY, STORM & VENT
- A. ALL SANITARY AND STORM PIPING SHALL SLOPE AT 1/4" PER FOOT FOR 2-1/2" AND SMALLER, AT 1/8" PER FOOT FOR 3" TO 6", AND 1/16" FOR 8" AND LARGER PIPING UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- B. ALL HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NO MORE THAN 50 FEET APART FOR DRAINS 4" OR LESS, 100 FEET FOR DRAINS 6" & 8", AND 150 FEET FOR DRAINS 10" OR LARGER. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE DRAINAGE PIPE GREATER THAN 45 DEGREES. C. ALL SOIL STACKS SHALL RUN FULL SIZE THROUGH THE ROOF.
- D. THE DIAMETER OF ALL VENTS SHALL BE AT LEAST ONE-HALF THE DIAMETER OF THE DRAIN LINE SERVED BUT NOT LESS THAN 1-1/2".
- E. RUN NEW WASTE PIPES AS CLOSE AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB AND VENT PIPING AS CLOSE AS POSSIBLE TO SLAB ABOVE.
- F. IN AREAS SUCH AS MECHANICAL/ELECTRICAL ROOMS, WHERE A TRAP SEAL IS SUBJECT TO LOSS BY EVAPORATION, PROVIDE A DEEP SEAL TRAP (CONSISTING OF A 4-INCH SEAL), A TRAP FILLED WITH MINERAL OIL, OR A TRAP PRIMER PER MANUFACTURERS REQUIREMENTS G. ELEVATOR PIT PUMP DISCHARGE SHALL BE PIPED TO AN OPEN SITE DRAIN IN A JANITORS CLOSE
- OR A MECHANICAL ROOM. H. THE PLUMBING CONTRACTOR SHALL PROVIDE OPEN SITE DRAINS JANITORS CLOSETS OR MECHANICAL ROOMS FOR DRAINING DOWN THE MAIN SPRINKLER RISERS, AND/OR COMBINATION RISERS. COORDINATE THE DISCHARGE RATE OF THE FIRE WATER RISERS WITH THE FIRE PROTECTIONS CONTRACTOR.
- 17. MATERIALS A. UNDERGROUND STORM, DRAINAGE, AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB SPIGOT: ASTM A-74; ASTM A-888; CISPI 301
- B. ABOVE-GROUND STORM, DRAINAGE AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB & SPIGOT: ASTM A-74; CISPI 301; ASTM A888 COPPER OR COPPER-ALLOY PIPE: ASTM B-42; ASTM B-302 COPPER OR COPPER-ALLOY TUBING (TYPE K OR L): ASTM 75; ASTM B-88; ASTM B-251; ASTM B-306 GALVANIZED STEEL PIPE: ASTM A-53
- C. UNDERGROUND WATER SERVICE PIPE SHALL BE: COPPER OR COPPER-ALLOY TUBING (TYPE K); ASTM B-74; ASTM B-88; ASTM B-251; ASTM B-447 DUCTILE IRON WATER PIPE (CEMENT LINED); AWWA C-151; AWWA C-115
- D. ABOVE-GROUND WATER DISTRIBUTION PIPE SHALL BE: ALL SIZES COPPER OR COPPER-ALLOY TUBING (TYPE K OR L); ASTM B-74; ASTM B-88; ASTM B-251; ASTM B-4476" AND LARGER -GALVANIZED STEEL PIPE: ASTM A-53 E. ABOVE-GROUND SOLAR PIPE SHALL BE: ALL SIZES - BRAZED COPPER OR COPPER- ALLOY PIPING
- (TYPE K OR L). F. GASKETED BELL AND SPIGOT C.I. PIPING IS RESERVED FOR UNDERGROUND USE. ABOVE GROUND SHALL BE CAULKED JOINTS.
- 18. INSULATION A. ALL DOMESTIC HOT & COLD WATER-PIPING SHALL BE INSULATED WITH HEAVY DENSITY, FIBERGLASS PIPE INSULATION 1" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE.
- B. STORM DRAIN-SUSPENDED PIPING: HEAVY DENSITY, FIBERGLASS PIPE INSULATION 1/2" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE. INSULATE ALL INTERIOR HORIZONTAL & VERTICAL LEADERS FROM ROOF DRAINS, AS WELL AS ROOF DRAIN BODY, TO PREVENT CONDENSATION.
- 19. ADDITIONAL REQUIREMENTS A. FOR EXACT LOCATION OF PLUMBING FIXTURES, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.
- B. PROVIDE HANGERS AND SUPPLEMENTAL SUPPORT STEEL FOR ALL EQUIPMENT AND PIPING. ALL WATER SUPPLY PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS WITH PIPE COVERING PROTECTION SADDLES OR SHEET METAL INSULATION SHIELDS. C. PIPE HANGARS ON INSULATED PIPING SHALL HAVE BLOCKING OR OTHER MEANS TO SUPPORT
- THE PIPE WITHOUT COMPRESSING THE INSULATION OR COMPROMISING THE VAPOR BARRIER. D. PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT IN MECHANICAL ROOMS SUCH AS ISOLATION VALVES, RECIRCULATION PUMPS, ETC. SHALL BE INSTALLED AT A REASONABLE HEIGHT IN ORDER TO FACILITATE MAINTENANCE.
- E. EXCEPT FOR PIPING ASSOCIATED WITH THE SUMP PUMPS. PLUMBING PIPING SHALL NOT BE ROUTED THROUGH OR OVER ANY ELEVATOR SHAFTS, ELEVATOR EQUIPMENT AREAS, ELECTRICAL ROOMS/EQUIPMENT AREAS. OR COMMUNICATIONS AREAS.
- F. IN ANY CASE WHERE NEW EQUIPMENT IS INSTALLED AND HAS TO BE CONNECTED TO EXISTING SYSTEMS, THE PLUMBING CONTRACTOR SHALL VERIFY THE CAPACITIES AT THE INDICATED POINT OF CONNECTION. SHOULD THE EXISTING CONDITION REQUIRE THE NEW BRANCH TO BE ROUTED TO ANOTHER LOCATION, THE PLUMBING CONTRACTOR SHALL PERFORM THIS WORK AS PART OF THEIR CONTRACT.
- G. FACTORY MUTUAL RESEARCH CORPORATION APPROVED EQUIPMENT SHALL BE PROVIDED WHERE APPLICABLE AND DETAILS OF THE INSTALLATIONS SHALL CONFORM TO FACTORY MUTUAL' S RECOMMENDED PRACTICES
- 20. ACCESSIBILITY A. PER ILLINOIS ACCESSIBILITY CODE, CURBS IN ACCESSIBLE SHOWER STALLS SHALL BE NO HIGHER THAN 1/2 INCH. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A RECESSED FLOOR, IF REQUIRED, IN ORDER TO MEET THIS REQUIREMENT. COORDINATE FLOOR/SHOWER BASE HEIGHT WITH ARCHITECTURAL.
- B. THE HOT WATER SUPPLY FOR EACH LAVATORY AND SINK IS TO BE INSULATED. THE P-TRAP AND WASTE DRAIN PIPE FOR EACH ADA ACCESSIBLE LAVATORY AND SINK IS TO BE INSULATED. 21. AS-BUILT DRAWINGS A. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SCALED 1/4" MINIMUM
- AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER. B. SUBMIT ASSEMBLED PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS.

PROJECT PHASE: **CONSTRUCTION DOCUMENTS**

P000

SHEET NUMBER

SHEET NAME PLUMBING SYMBOLS, NOTES & **ABBREVIATIONS**

PROJECT #:	2020
SCALE:	12" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS **RECREATION CENTER** SITE AND BUILDING **IMPROVEMENTS**

/\|DATE: DESCRIPTION:

Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street

The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644 COST ESTIMATING **Dharam Consulting** 1719 Chestnut Street Suite 300 Philadelphia, PA 19103

www.groundreconsidered.com MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN

www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727

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Philadelphia, PA 19102 340 North 12th Street, Suite 421

Department of Parks and Recreation 1515 Arch Street, 10th Floor

REBUILD

1515 Arch Street

Mezzanine Level

Philadelphia, PA 19104

CITY OF PHILADELPHIA

BASEMENT- PLUMBING DEMO PLAN 1/8" = 1'-0"



0' 4' 8' 16' 32'

SHEET NUMBER:
PD200
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/2023 SHEET NAME: BASEMENT -PLUMBING

DEMOLITION PLAN

5800 Chester Ave Philadelphia, PA 19143 PROJECT #: 2020 SCALE: 1/8" = 1'-0"

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PLUMBING DEMO SHEET KEY NOTES:

01 DEMO EXISTING PLUMBING FIXTURES, FIXTURE SUPPORTS AND APPURTENANCE. DEMO SUPPLY, WASTE AND VENT PIPING BACK TO MAINS.

PLUMBING DEMO SHEET GENERAL NOTES:

1. DEMO ALL EXISTING SANITARY BRANCH AND MAIN PIPING BACK TO SERVICE EXIT. CAP EXISTING SANITARY EXIT AND PREPARE FOR CONNECTION FROM NEW SANITARY MAIN.

2. DEMO ALL EXISTING VENT PIPING BACK TO LEVEL 3 VENT MAINS. ALL EXISTING VENT-THRU-ROOFS (VTRS) TO REMAIN IN PLACE. 3. DEMO ALL EXISTING DOMESTIC SUPPLY PIPING BACK TO SERVICE ENTRANCE. CAP

EXISTING SUPPLY SERVICE ENTRANCE AND PREPARE FOR CONNECTION TO NEW SUPPLY PIPING.

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DATE: DESCRIPTION:	
FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143	
PROJECT #: 2020 SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: KS	
CHECKED: LU DATE: 4/7/2023	
LEVEL 1 - RENOVATION PLUMBING	
DEMOLITION PLAN	
PD220	



PLUMBING DEMO SHEET KEY NOTES:

01 DEMO EXISTING PLUMBING FIXTURES, FIXTURE SUPPORTS AND APPURTENANCE. DEMO SUPPLY, WASTE AND VENT PIPING BACK TO MAINS.

PLUMBING DEMO SHEET GENERAL NOTES:

1. DEMO ALL EXISTING SANITARY BRANCH AND MAIN PIPING BACK TO SERVICE EXIT. CAP EXISTING SANITARY EXIT AND PREPARE FOR CONNECTION FROM NEW SANITARY MAIN.

2. DEMO ALL EXISTING VENT PIPING BACK TO LEVEL 3 VENT MAINS. ALL EXISTING VENT-THRU-ROOFS (VTRS) TO REMAIN IN PLACE. 3. DEMO ALL EXISTING DOMESTIC SUPPLY PIPING BACK TO SERVICE ENTRANCE. CAP

EXISTING SUPPLY SERVICE ENTRANCE AND PREPARE FOR CONNECTION TO NEW SUPPLY PIPING.

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DATE: DESCRIPTION:
FRANCIS J. MYERS
RECREATION CENTER SITE AND BUILDING IMPROVEMENTS
5800 Chester Ave Philadelphia, PA 19143
PROJECT #: 2020
SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/2023
SHEET NAME:
LEVEL 2 - RENOVATION
PLUMBING DEMOLITION PLAN
SHEET NUMBER:
PD222

Revit 2020



PLUMBING DEMO SHEET GENERAL NOTES:

1. DEMO ALL EXISTING SANITARY BRANCH AND MAIN PIPING BACK TO SERVICE EXIT. CAP EXISTING SANITARY EXIT AND PREPARE FOR CONNECTION FROM NEW SANITARY MAIN. 2. DEMO ALL EXISTING VENT PIPING BACK TO LEVEL 3 VENT MAINS. ALL EXISTING VENT-THRU-ROOFS (VTRS) TO REMAIN IN PLACE.

3. DEMO ALL EXISTING DOMESTIC SUPPLY PIPING BACK TO SERVICE ENTRANCE. CAP EXISTING SUPPLY SERVICE ENTRANCE AND PREPARE FOR CONNECTION TO NEW SUPPLY PIPING.

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DATE: DESCRIPTION:
FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143
PROJECT #: 2020 SCALE: 1/8" = 1'-0"
FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/2023
SHEET NAME: LEVEL 3
RENOVATION - PLUMBING DEMOLITION PLAN
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PROJECT PHASE:

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UNDERGROUND PLUMBING NOTES



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x1	
5.2 x2	
x3 (3.5 x4	———————————————————————————————————————
x5	x4.5
x6)	
(6.5	DATE: DESCRIPTION:
x7 (7.5	
x8 (8.5	FRANCIS J. MYERS
x9	SITE AND BUILDING IMPROVEMENTS
x10	5800 Chester Ave Philadelphia, PA 19143
x11	PROJECT #: 2020
x12	SCALE: 3/32" = 1'-0" FORMAT: 30" X 42" DRAWN: KS CHECKED: 111
	DATE: 4/7/2023
	UNDERGROUND RENOVATION -
	PLUMBING PLAN
	SHEET NUMBER:
	P100 A
	PROJECT PHASE: CONSTRUCTION DOCUMENTS



SHEET NUMBER:
P100 B
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME: UNDERGROUND **ADDITION** -PLUMBING PLAN

PROJECT #: 2020 SCALE: 1/8" = 1'-0" 30" X 42" FORMAT: DRAWN: KS CHECKED: LU DATE: 4/7/2023

IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING

DATE: DESCRIPTION:

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PLUMBING KEY NOTES:

01 PLUMBING PIPING TO DROP UNDER EXISTING STRUCTURAL BEAM AND BACK UP.

SHEET NUMBER:
P210 A
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

SCALE: 3/16" = 1'-0" 30" X 42" FORMAT: DRAWN: KS CHECKED: LU DATE: 4/7/2023 SHEET NAME: BASEMENT

RENOVATION -

PLUMBING PLAN

PROJECT #: 2020

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143

DATE: DESCRIPTION:

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<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

DICC

01 PLUMBING PIPING TO DROP UNDER EXISTING STRUCTURAL BEAM / MECHANICAL EQUIPMENT AND DUCTWORK AND BACK UP.

SHEET NUMBER:
P211 A
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

KS LU DATE: 4/7/2023 SHEET NAME: LEVEL 1 **RENOVATION** -

PLUMBING PLAN

PROJECT #: 2020 SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: CHECKED:

5800 Chester Ave Philadelphia, PA 19143

RECREATION CENTER

SITE AND BUILDING

IMPROVEMENTS

DESCRIPTION: FRANCIS J. MYERS

DATE:

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Mezzanine Level Philadelphia, PA 19104 <u>OWNER</u> CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

CLIENT REBUILD 1515 Arch Street

DIGSAI

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SHEET NUMBER:
P211 B
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #:	2020		
SCALE:	1/8" = 1'-0"		
FORMAT:	30" X 42"		
DRAWN:	KS		
CHECKED:	LU		
DATE:	4/7/2023		
SHEET NAME:			
LEVEL 1 ADDITION -			

PLUMBING PLAN

RECREATION CENTER SITE AND BUILDING IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

LIGHTING DESIGN **The Lighting Practice** 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644 COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103

v 610.554.6560

MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612

LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com

<u>CIVIL ENGINEER</u> David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

<u>OWNER</u> **CITY OF PHILADELPHIA** Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102 ARCHITECT DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com

<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

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PLUMBING PLAN
SHEET NUMBER:
P212 A
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

LU SHEET NAME: LEVEL 2 **RENOVATION** -

PROJECT #: 2020 SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: KS CHECKED: DATE: 4/7/2023

RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS

DESCRIPTION:

COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com

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v 215.790.0727 www.groundreconsidered.com MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612

www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102

www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER
David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

CIVIL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

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CLIENT REBUILD 1515 Arch Street

Mezzanine Level Philadelphia, PA 19104

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PLUMBING PLAN
SHEET NUMBER: P212 B
PROJECT PHASE: CONSTRUCTION DOCUMENTS

PROJECT #:	2020			
SCALE:	1/8" = 1'-0"			
FORMAT:	30" X 42"			
DRAWN:	KS			
CHECKED:	LU			
DATE:	4/7/2023			
-				
SHEET NAME:				

LEVEL 2 ADDITION -

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

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<u>OWNER</u> **CITY OF PHILADELPHIA** Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

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PLUMBING PLAN
SHEET NUMBER:
P213
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

LEVEL 3			
SHEET NAME:			
DATE:	4/7/2023		
CHECKED:	LU		
DRAWN:	KS		
FORMAT:	30" X 42"		

RENOVATION -

PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

5800 Chester Ave Philadelphia, PA 19143

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<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

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SHEET NAM	E:							
DATE:	4/7/2023							
CHECKED:	LU							
DRAWN:	KS							
FORMAT:	30" X 42"							
SCALE:	1/8" = 1'-0"							
PROJECT #:	2020							

RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

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<u>OWNER</u> **CITY OF PHILADELPHIA** Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

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2 LEVEL 1 - ADDITION PLUMBING ENLARGED PLAN - GANG RESTROOMS 1/4" = 1'-0"

0' 2' 4' 8' 16'

APPROVAL STAMP AREA

0' 2' 4' 8' 16'

SHEET NUMBER:
P300
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

SCALE: 1/4" = 1'-0" FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/2023 SHEET NAME: ENLARGED

PLUMBING PLANS

PROJECT #: 2020

SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

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Suite 604 Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com

www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street

STRUCTURAL ENGINEER
David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

CIVIL ENGINEER David Mason & Associates

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Mezzanine Level Philadelphia, PA 19104 OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

CLIENT REBUILD 1515 Arch Street

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ROOF - EXISTING 41'-6"

DIAGRAMS - SUPPLY
SHEET NUMBER:
P400
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: 12" = 1'-0" FORMAT: 30" X 42" DRAWN: l KS CHECKED: I LU DATE: 4/7/2023 SHEET NAME:

PLUMBING RISER

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING **IMPROVEMENTS**

DESCRIPTION:

801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT
DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557

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Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc.

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The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106

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Philadelphia, PA 19102

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123 S. Broad St Suite 1130

v 215.375.6059

Suite 604

v 215.790.0727

v 215.238.1644

1515 Arch Street, 10th Floor Philadelphia, PA 19102

Mezzanine Level Philadelphia, PA 19104 <u>owner</u> City of Philadelphia Department of Parks and Recreation

<u>CLIENT</u> REBUILD

1515 Arch Street

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2" V —⁄

, – 2" V

LEVEL 3 - EXISTING 29'-3"

ROOF - EXISTING 41'-6"

APPROVAL STAMP AREA

4" SAN OUT TO ADDITION BUILDING — ELEV: 2'-1 1/2" C.O.P. A.F.F OF BASEMENT

SHEET NUMBER:
P410
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 12" = 1'-0" SCALE: FORMAT: 30" X 42" DRAWN: l KS CHECKED: LU DATE: 4/7/2023 SHEET NAME: PLUMBING RISER

DIAGRAMS - WASTE

RECREATION CENTER SITE AND BUILDING **IMPROVEMENTS** 5800 Chester Ave Philadelphia, PA 19143

DESCRIPTION: FRANCIS J. MYERS

DATE:

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DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

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OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

Mezzanine Level Philadelphia, PA 19104

CLIENT REBUILD 1515 Arch Street

Revit 2020

APPROVAL STAMP AREA

	SEWAGE EJECTOR														
TAG	G							ELECTRICAL	DATA		BASI	Ν			
ABB		DISCHARGE	CAPACITY	QTY. OF		PUMP									
R.	#	SIZE (IN)	(GPM)	PUMPS	TDH (FT)	CAPACITY (%)	HP	VOLTS	PH	DEPTH	DIAMETER	BASIN MATERIAL	MANUFACTURER	MODEL	REMARKS
SE	1	2	30	2	20	100	1	208 V	1	60"	36"	CONCRETE	ZOELLER	284	

	PLUMBING FIXTURES											
			FIXT	JRE								
TAG	GPM/GPF	TYPE	FINISH	MANUFACTURER	MODEL	TYPE	MANUFACTURER	MODEL	REMARKS			
LAV-1	0.35	WALL MOUNTED LAVATORY	VITREOUS CHINA	KOHLER	K-2031-0	MANUAL	KOHLER	K-400T20-5AKA	1. , 2.			
LAV-2	0.35	ADA WALL MOUNTED LAVATORY	VITREOUS CHINA	KOHLER	K-2031-0	MANUAL	KOHLER	K-400T20-5AKA	1. , 2.			
MB-1	UNRESTRICTED	MOP BASIN	TERRAZZO	FIAT	SBC3636	MANUAL	CHICAGO FAUCETS	911CP				
PSB-1		PLUMBING SUPPLY BOX		GUY GRAY	T200							
SK-1	1.5	UNDERMOUNT DOUBLE BASIN SINK	STAINLESS STEEL	KOHLER	3171-NA	MANUAL	KOHLER	K-22034	1., 2.			
SK-2	1.5	DROP-IN DOUBLE BASIN SINK	STAINLESS STEEL	KOHLER	5267-3-NA	MANUAL	KOHLER	K-22034	1., 2.			
SS-1	1.5	FLOOR MOUNTED DOUBLE BASIN SERVICE SINK	STAINLESS STEEL	ELKAY	WNSF82482	MANUAL	KOHLER	830T70-5AEA-CP	1. 1.			
UR-1	0.125	ADA WALL MOUNTED URINAL	VITREOUS CHINA	KOHLER	K-4991-ET-0	MANUAL	SLOAN	186-0.125	2.			
WC-1	1.6	FLOOR MOUNTED WATER CLOSET	VITREOUS CHINA	KOHLER	K-96058-SS-0	MANUAL	SLOAN	111-1.6	2.			
WC-2	1.6	ADA FLOOR MOUNTED WATER CLOSET	VITREOUS CHINA	KOHLER	K-96058-SS-0	MANUAL	SLOAN	111-1.6	2.			

1. PROVIDE POINT OF USE MIXING VALVE. 2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.

REMARKS:

	ELECTRIC DOMESTIC WATER HEATER												
TAG					DOMESTIC	ELECTRICAL DATA							
ABBR.	#	LOCATION	CAPACITY (GAL)	DOMESTIC WATER INLET TEMP. (F)	WATER OUTLET TEMP. (F)	KW	VOLTS	PH	MANUFACTURER	MODEL	REMARKS		
EWH	1	BASEMENT	40	40	140	10.5	480 V	3	A. O. SMITH	DEL-40	1. , 2.		
EWH	1	BASEMENT	40	40	140	10.5	480 V	3	A. O. SMITH	DEL-40	1. , 2.		
REMARKS	<u>- 140 10.5 480 V 3 A. O. SMITH DEL-40 1., 2.</u>												

1. FOR DUAL ELEMENT 4500/6000 WATTS. 2. PROVIDE INPUT FOR REMOTE BAS ENABLE/DISABLE.

	HOT WATER RECIRCULATION PUMP												
TAG					ELECTRICAL DATA								
ABBR.	#	LOCATION	CAPACITY (GPM)	MATERIAL	HP	PH	VOLTS	MANUFACTURER	MODEL	REMARKS			
HWRP	1	BASEMENT	15	CAST IRON	1/2	1	208 V	XYLEM	ECOCIRC XL 55-45				

	ELEVATOR PIT PUMP													
TAC	;	DISCHARGE SIZE	CAPACITY			ELECTRIC	AL DATA			MODEL				
BBR.	#	(IN)	(GPM)	TDH (FT)	HF	VOL	TS PH	MANUFAC	TURER		REMARKS			
EPP	1	2	50	20	1/2	2 120	V 1	ZOELI	.ER	BN153	PROVIDE WITH OPTIONAL OIL ALARM.			
INTERCEPTOR SCHEDULE														
	TAG	AG	ST			GREASE		DIMENSIONS (IN)	SIONS (IN)					
			HOI	DING	LIQUID	SLUDGE								

	IAG		STATIC		GREASE		DIMENSIONS (IN)			
ABBR.	#	FLOW (GPM)	HOLDING CAPACITY (GAL)	LIQUID CAPACITY (GAL)	SLUDGE CAPACITY (LBS)	WIDTH	HEIGHT	LENGTH	MANUFACTURER	MODEL	REMARKS
GI	1	5	1.7	0	9	6 3/4"	7 1/2"	1'-3 1/4"	ROCKFORD SEPARATORS	G-710-M	
SI	1	5	0	2.1	9	11"	11 3/4"	11"	STRIEM CO	USI-1180	

	DRAIN SCHEDULE											
TAG	FIXTURE	MATERIAL	STRAINER SIZE	MANUFACTURER	MODEL	REMARKS						
FD-1	FINISHED FLOOR DRAIN	CAST IRON	6"	JAY R SMITH	2675							
FD-2	FUNNEL FLOOR DRAIN	CAST IRON	8"	JAY R SMITH	3510							

	ELECTRIC WATER COOLER											
TAG	FIXTURE	MATERIAL	DIMESIONS (L x W x H)	MANUFACTURER	MODEL	REMARKS						
EWC-1	ELECTRIC WATER COOLER	STAINLESS STEEL	36-1/4" x 18-5/8" x 46-1/4"	ELKAY	LZWS-LRPBM28K							
EWC-2	BI-LEVEL EXTERIOR DRINKING FOUNTAIN	STAINLESS STEEL		ELKAY	LK4420FRK							

	BACKFLOW PREVENTER					
TAG						
ABBR.	#	LOCATION	SYSTEM	MANUFACTURER	MODEL	REMARKS
BFP	1	WATER ROOM	NON-POTABLE WATER	WATTS	LF007	
BFP	1	WATER ROOM	DOMESTIC WATER	WATTS	LF009	FOR DOMESTIC WATER SERVICE

			HYDRANTS		
TAG					
ABBR.	#	FIXTURE	MANUFACTURER	MODEL	REMARKS
NFRH	1	NONFREEZE ROOF HYDRANT	WOODFORD	RHY1-1-MS	
NFWH	1	NONFREEZE WALL HYDRANT	WOODFORD	68	

SHEET NUMBER: **P500** PROJECT PHASE: CONSTRUCTION DOCUMENTS

PLUMBING SCHEDULES

KS LU DATE: 4/7/2023 SHEET NAME:

PROJECT #: 2020 SCALE: FORMAT: 30" X 42" DRAWN: CHECKED:

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

DATE: DESCRIPTION:

COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com

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<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

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CLIENT REBUILD 1515 Arch Street Mezzanine Level
Philadelphia, PA 19104 <u>OWNER</u> CITY OF PHILADELPHIA Department of Parks and Recreation
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FRANCIS J. MYERS RECREATION CENTER
SITE AND BUILDING
5800 Chester Ave Philadelphia, PA 19143
PROJECT #: 2020
FORMAT: 30" X 42" DRAWN: KS CHECKED: LU
DATE: 4/7/2023 SHEET NAME:
PLUMBING DETAILS
SHEET NUMBER:
P600
PROJECT PHASE:

FP ABBREVIATIONS KEY NAME COMMENT AFF ABOVE FINISH FLOOR AHU AIR HANDLING UNIT ARCHITECTURAL ARCH BACKFLOW PREVENTER BFP BLD BUILDING BOP BOTTOM OF PIPE CD CONDENSATE DRAIN CUBIC FEET PER HOUR CFH CAST IRON CI CENTER LINE CL CLG CEILING CM COFFEE MAKER CO CLEANOUT CSW COLD SOFT WATER CV CHECK VALVE COLD WATER CW DRAIN D DETAIL DET DFU DIA, Ø DIAMETER DOWN DN DT DRAIN VALVE DV DWG DRAWING DWS EC ELEVATION EL ELEC ELECTRICAL EP ELEVATOR PUMP EQUIP EQUIPMENT EXISTING TO REMAIN ETR EWC EWH FCO FLOOR CLEANOUT FLOOR DRAIN FD FF ELEV FINISH FLOOR ELEVATION FPC FT FEET GF GLYCOL FILL STATION GPM GALLON PER MINUTE HUB DRAIN HD HW HOT WATER HOT WATER RETURN HWR ICW KW KILOWATT LAVATORY LAV MAX MAXIMUM MOP BASIN MB MC MECH MECHANICAL MIN MINIMUM MISCELLANEOUS MISC NC NORMALLY CLOSED NFWH NO NORMALLY OPEN NPW NON POTABLE WATER NTS NOT TO SCALE PUMP Р PC PCP PG PRESSURE GAUGE PRV PVC POLYVINYL CHLORIDE PRESSURIZED WASTE PW REX REMOVE EXISTING RP SAIN SANITARY WASTE SINK SK SP SUMP PUMP SPEC SPECIFICATION ST REQUIREMENTS T&P VALVE TO BE DETERMINED TBD TDH TOTAL DYNAMIC HEAD TEMP or T TEMPERATURE THX TMV TP TRAP PRIMER TYP TYPICAL UNO VENT V VTR VENT THRU ROOF WITH W/ WC WATER CLOSET WCO WALL CLEANOUT YARD CLEANOUT WCO WHA WATER SOFTENER WS DEGREE

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DEGREES FAHRENHEIT

DIAMETER

DRAINAGE FIXTURE UNITS FOUNDATION DRAIN TILE DOMESTIC WATER SERVICE ELECTRICAL CONTRACTOR ELECTRIC WATER COOLER ELECTRC WATER HEATER FIRE PROTECTION CONTRACTOR INDUSTRIAL COLD WATER MECHANICAL CONTRACTOR NON FREEZE WALL HYDRANT PLUMBING CONTRACTOR PUMP CONTROL PANEL PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH PSIG POUNDS PER SQUARE INCH GAUGE RECIRCULATION PUMP STORM, PUMP DISCHARGE TO MEET PRESSURIZED WASTE PIPING TEMPERATURE & PRESSURE RELIEF THERMAL EXPANSION TANK THERMOSTATIC MIXING VALVE UNLESS NOTED OTHERWISE WATER HAMMER ARRESTER

	LER HEADS				
SYMBOL	DESCRIPTION				
	EXISTING UPRIGHT SPRINKLER HEAD				
	EXISTING PENDANT SPRINKLER HEAD				
	EXISTING PENDANT CONCEALED SPRI	NKLER HEAD			
	EXISTING PENDANT DRY SPRINKLER H	EAD			
	EXISTING STANDARD SIDEWALL SPRIN	KLER HEAD HORIZONTAL			
	EXISTING STANDARD SIDEWALL SPRIN	KLER HEAD VERTICAL			
	EXISTING CARBON DIOXIDE NOZZLE				
NEW CONSTRUCT	TION SPRINKLER HEADS				
<u> </u>	UPRIGHT SPRINKLER HEAD				
	PENDANT SPRINKLER HEAD				
	PENDANT CONCEALED SPRINKLER HEAD				
-	PENDANT DRY SPRINKLER HEAD				
	STANDARD SIDEWALL SPRINKLER HEAD HORIZONTAL				
	STANDARD SIDEWALL SPRINKLER HEAD VERTICAL				
W	PENDENT WINDOW SPRINKLER HEAD				
	CARBON DIOXIDE NOZZLE				
SYSTEMS ABBREVIATIONS					
	ABBREVIATION				

CTION WET	

SYMBOLS LIST

REMARKS
POLISHED CHROME PLATING

SYMBOL	DESCRIPTION
$- \bigcirc$	ELBOW DOWN
$-\bigcirc$	TEE UP
	CHECK VALVE
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	PENDANT DRY SPRINKLER HEAD
$\neg \nabla$	STANDARD SIDEWALL
	PENDENT WINDOW SPRINKLER HEAD
	CARBON DIOXIDE NOZZLE
\rightarrow	DELUGE VALVE
	OS&Y VALVE
	DETECTOR CHECK VALVE WITH BY-PASS
_ <u>_</u>	FIRE DEPARTMENT VALVE
FEC-R/S	FIRE EXTINGUISHER RECESSED OR SURFACE
NS	NON SPRINKLED AREA
\bigvee	SIAMESE FIRE DEPT. CONNECTION
	FIRE ALARM BELL
\square	WALL FIRE PUMP TEST HEADER
- X -	DRY PIPE VALVE
FS	FLOW SWITCH
TS	
Ř	
	ANGLE GATE VALVE
->_K-	GLOBE VALVE
\neg	
	ANGLE GLOBE VALVE
	OS&Y WITH TAMPER SWITCH
BF	REDUCED PRESSURE BACK FLOW
BF	REDUCED PRESSURE BACK FLOW PREVENTOR
4	DOUBLE DETECTOR CHECK VALVE
	BALANCING COCK
-Ü-Ŋ-ф-	BALANCING VALVE
	BALL VALVE / ISOLATION VALVE
-\$-	OS&Y VALVE
-	GATE VALVE
-224-	GLOBE VALVE
	MIXING VALVE
 	WALL SLEEVE
$\neg \mid \vdash$	UNION
	FLOOR CLEAN OUT
igodot	CLEAN OUT
]	PIPE CAP
I	WALL CLEAN OUT
++++++	STRAINER
	тисомометер
	INERWUMETER
	PRESSURE GAUGE
	WATER METER
	WATER METER ASSEMBLY
	PUMP
	FLOOR CONTROL ASSEMBLY CABINET

GENERAL FIRE PROTECTION NOTES APPLICABLE TO ALL FIRE PROTECTION DRAWINGS 1. AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA SHALL BE BASED ON LIGHT HAZARD OCCUPANCY FOR OFFICES, LOBBY, AND STAIRS WITH QUICK RESPONSE 165 DEGREES FAHRENHEIT RATED SPRINKLER HEADS. THE DENSITY REQUIREMENT SHALL BE A MINIMUM OF 0.10 GPM/SQ. FT. OVER THE HYDRAULIC MOST REMOTE 1500 SQ. FT. STORAGE, MECHANICAL ROOM SHALL BE BASED ON ORDINARY HAZARD

1500 SQ. FT 2. ALL SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA NO. 13, LOCAL BUILDING CODE AND ANY REFERENCED AMENDMENTS AND STANDARDS.

WITH A DENSITY OF 0.15 GPM/SQ. FT. OVER THE MOST HYDRAULIC MOST REMOTE

- 3. FIRE SUPPRESSION DRAWINGS ARE FOR REFERENCE ONLY. FIRE SUPRRESSION SYSTEM DESIGN IS A DELEGATED DESIGN AND FINAL ROUTING OF FIRE SUPPRESSION PIPING AND HYDRAULIC CALCULATIONS ARE THE RESPONSIBILITY OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PENNSYLVANIA.
- 3. CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR THIS WORK.
- 4. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE FULL EXTENT OF THE WORK AND THE EXACT LOCATION, ELEVATION, ETC, OF PIPING. COORDINATE ALL WORK WITH THE RESPECTIVE TRADES.
- 5. PROVIDE ALL REQUIRED CUTTING, DRILLING AND PATCHING. NO STRUCTURAL WORK TO BE CUT WITHOUT PREVIOUS APPROVAL OF THE ARCHITECT. PATCH ALL DISTURBED WALLS, CEILINGS AND FLOORS TO MATCH ADJACENT SURFACES AS NECESSARY.
- 6. WATER PRESSURE AND SUPPLY INFORMATION: FIELD VERIFY ALL PRESSURES AND CAPACITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW TEST INFORMATION. 7. SPRINKLER PIPE SIZING SHALL BE HYDRAULICALLY CALCULATED AFTER FLOW TEST HAS BEEN COMPLETED.
- 8. WHERE CEILINGS OCCUR USE CONCEALED PENDANT TYPE SPRINKLER HEADS.
- 9. WHERE THERE ARE NO CEILINGS PROVIDE UPRIGHT SPRINKLER HEADS. 10. MAINTAIN MINIMUM CLEARANCE OF 18" OR GREATER BETWEEN SPRINKLER HEAD
- DEFLECTOR AND THE TOP OF STORAGE. 11. CONTRACTOR SHALL INSTALL METAL SPRINKLER CABINET CONTAINING TWO SETS OF SPRINKLER WRENCHES COMPATIBLE WITH EACH TYPE OF SPRINKLER PROVIDED AND THE NUMBER OF SPARE SPRINKLERS OF EACH TYPE, FINISH AND TEMPERATURE RATING AS REQUIRED BY SECTION 6.2.9 OF NFPA 13.
- 12. EACH SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR TWO HOURS. THE TEST SHALL CONFORM TO NFPA STANDARDS AND WITNESSED BY AUTHORITY HAVING JURISDICTION.
- 13. SPRINKLERS SHALL BE INSTALLED BENEATH DUCTWORK OR OTHER OBSTRUCTIONS 48" OR WIDER.
- 14. ALL PIPING, VALVES AND DEVICES SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY OR ANY PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT.
- 15. EVERY SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY SHALL HAVE ALL NECESSARY VALVES, TAMPER SWITCHES, WATERFLOW INDICATORS AND COMBINATION INSPECTORS TEST AND DRAIN FITTINGS.
- 16. ALL HANGERS AND METHODS FOR HANGING SHALL BE IN ACCORDANCE WITH NFPA STANDARDS. 17. FACTORY MUTUAL RESEARCH CORPORATION APPROVED EQUIPMENT SHALL BE PROVIDED WHERE APPLICABLE AND DETAILS OF THE INSTALLATIONS SHALL
- CONFORM TO FACTORY MUTUAL'S RECOMMENDED PRACTICES. 18. DO NOT INSTALL PIPING OR SPRINKLER HEADS IN HIGH VOLTAGE (OVER 480 V) ELECTRICAL CLOSETS, TRANSFORMER ROOMS, OR ELEVATOR EQUIPMENT ROOMS. THESE AREAS SHALL HAVE HEAT DETECTORS FURNISHED AND INSTALLED BY ELECTRIC CONTRACTOR (U.N.O.).
- 19. PIPING SHALL NOT BE ROUTED THROUGH OR OVER ANY TELEPHONE EQUIPMENT, ELECTRICAL EQUIPMENT, COMMUNICATION ROOMS OR SIMILAR AREAS.
- 20. ALL SPRINKLERS LOCATED IN SUSPENDED CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE TILE.
- 21. ALL FLOOR CONTROL VALVE ASSEMBLIES ARE TO BE LOCATED WITHIN THE STAIR ENCLOSURE. CONTROL VALVES ARE TO BE SUPERVISED AND LOCKED IN THE OPEN POSITION.
- 22. ALL SPRINKLER SYSTEMS SHOWN SHALL BE WET UNLESS OTHERWISE NOTED. MULTIPLE FIRE DEPARTMENT CONNECTIONS ARE REQUIRED AS SHOWN.
- 23. TESTING OF FIRE PUMP MUST BE SAFELY ACCOMPLISHED WITH NO MORE THAN 100 FT. OF HOSE.
- 24. PIPE ROUTING IS FOR DIAGRAMMATIC PURPOSES ONLY, SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PIPE ROUTING, HEAD LOCATIONS, AND PIPE SIZING BASED ON HYDRAULIC CALCULATIONS.
- 25. SPRINKLER CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF SPRINKLER PIPING AND HEADS WITH OTHER TRADES. AVOID ALL DUCTWORK, LIGHTING FIXTURES, DIFFUSERS, ETC.
- 26. PIPES, DUCTS, CONDUITS AND ELECTRICAL CABLE TRAYS WHICH PASS THROUGH EXISTING AND NEW FIRE-RESISTIVE BARRIERS, INCLUDING FLOOR SLABS AND WALLS, SHALL BE FIRE SEALED TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTIVE BARRIER. ALL EXPOSED PIPES PASSING THROUGH A WALL, CEILING OR FLOOR SHALL HAVE CHROME ESCUTCHEON PLATES.
- 27. SPRINKLER SYSTEM SHALL BE INSTALLED SO THAT DRAINING OF THE ENTIRE SYSTEM IS POSSIBLE AS PER NFPA NO. 13.
- 28. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL PIPE.
- 29. SPRINKLER CONTRACTOR SHALL SUBMIT SPRINKLER PLAN LAYOUT, INCLUDING PIPE SUPPORT LOCATIONS AND TYPES. SUBMITTALS SHALL INCLUDE PENETRATIONS AND DETAILS.
- 30. ABOVE-GROUND SPRINKLER PIPING SHALL BE: BLACK STEEL, WELDED OR SEAMLESS; ASTM A 795; GALVANIZED STEEL WELDED OR SEAMLESS; ANSI/ASTM A 53; WROUGHT STEEL; ANSI B36.10M; STEEL, ELECTRONIC-RESISTANCE WELDED; ASTM A 135;
- 31. SCREWED UNIONS SHALL NOT BE USED ON PIPE LARGER THAN 2". COUPLINGS AND UNIONS OF OTHER THAN SCREWED-TYPE SHALL BE OF TYPES LISTED SPECIFICALLY FOR USE IN SPRINKLER SYSTEMS.
- 32. PROVIDE SIDEWALL SPRINKLER HEAD AT BOTTOM AND TOP OF ELEVATOR SHAFT. LOCATE SPRINKLER HEAD WITHIN ELEVATOR PIT SAFETY ZONE. PROVIDE AN ISOLATION VALVE IN THE LOCKED OPEN POSITION UPSTREAM OF SPRINKLER.
- 33. CONCEALED SPRINKLER HEADS TO BE INSTALLED IN ALL FINISHED SPACES WITH CEILING U.N.O.
- 34. ALL SPRINKLERS TO BE QUICK RESPONSE U.N.O.
- 35. ALL SPRINKLERS TO BE OF AN ORDINARY TEMPERATURE RATING U.N.O.
- 36. ALL SPRINKLERS SHALL HAVE A 5.6 K-FACTOR ORIFICE U.N.O.
- 37. FIRE PROTECTION SYSTEM SHALL INCLUDE ALL ITEMS FOR COMPLETE SYSTEM. SPECIFICALLY THIS IS TO INCLUDE BUT IS NOT LIMITED TO: PIPE, SUPPORTS, VALVES, GAUGES, TRIM, ALARMS, SPECIALTY DEVICES, CONTROLS, AND ITEMS INCIDENTAL TO A COMPLETE SYSTEM.
- 38. ADDITIONAL SPRINKLERS MAY BE REQUIRED TO PROVIDE ADEQUATE COVERAGE WHERE FURNITURE, LIGHT FIXTURES, DUCTWORK OR STRUCTURE ACT AS OBSTRUCTIONS TO A SPRINKLER SPRAY PATTERN.
- 39. GENERAL CONTRACTOR'S MEP/FP COORDINATOR TO SUBMIT MEP/FP COORDINATION DRAWINGS FOR "REVIEW OF DESIGN INTENT" INDICATING COORDINATION OF ALL TRADES PRIOR TO PLACEMENT OF MEP/FP WORK. DRAWINGS TO BE SUBMITTED AFTER SPRINKLER DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY AHJ AND SUBSEQUENTLY COORDINATED WITH ALL OTHER TRADES. DRAWINGS TO BE SUBMITTED TO EOR FOR REVIEW.
- 40. ALL SPRINKLER HEADS LOCATED AT SKYLIGHTS AND CLERESTORY TO BE INTERMEDIATE TEMPERATURE TYPE.
- 41. GENERAL CONTRACTOR TO PROVIDE SUBMITTAL TO ARCHITECT AND ENGINEER FOR REVIEW OF SPRINKLER HEAD LOCATIONS AND OTHER ASSOCIATED DEVICES.
- 42. DRAWINGS AND DETAILS ARE DIAGRAMMATIC IN NATURE AND THE FINAL DESIGN. INCLUDING DETAILS AND SPRINKLER SCHEDULES, ARE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR.

PROJECT PHASE: **CONSTRUCTION DOCUMENTS**

FP000

SHEET NUMBER:

SHEET NAME: FIRE PROTECTION **SYMBOLS, NOTES & ABBREVIATIONS**

	2020
SCALE:	12" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023

PROJECT #: 2020

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS **RECREATION CENTER** SITE AND BUILDING **IMPROVEMENTS**

/\|DATE: DESCRIPTION:

Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

ENVIRONMENTAL CONSULTANT

Suite 772 Philadelphia, PA 19106 v 215.238.1644 COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103

v 610.554.6560

Brightfields, Inc.

801 Industrial Street

Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN The Lighting Practice 600 Chestnut Street

Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910

LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604

STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

ARCHITECT DIGSAU Philadelphia, PA 19107 v 215.627.0808 www.digsau.com CIVIL ENGINEER

1515 Arch Street, 10th Floor Philadelphia, PA 19102 340 North 12th Street, Suite 421

CITY OF PHILADELPHIA

Mezzanine Level Philadelphia, PA 19104 Department of Parks and Recreation

<u>CLIENT</u> REBUILD 1515 Arch Street

 BASEMENT - FIRE PROTECTION DEMO RCP

 1/8" = 1'-0"

 0'
 4'
 8'
 16'
 32'

FIRE PROTECTION DEMO NOTES:

1. DEMOLISH ALL EXISTING SPRINKLERS AND BRANCH PIPING BACK TO EXISTING DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) IN BASEMENT. PREPARE EXISTING DCDA FOR CONNECTION TO NEW SPRINKLER MAINS.

PROTECTION DEMO RCP
SHEET NUMBER:
FPD110
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/2023 SHEET NAME:

BASEMENT - FIRE

IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

v 215.238.1644 COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103

v 610.554.6560

LIGHTING DESIGN **The Lighting Practice** 600 Chestnut Street Suite 772 Philadelphia, PA 19106 w 2012 220 4044

MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612

123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727

www.groundreconsidered.com

CIVIL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

STRUCTURAL ENGINEER
David Mason & Associates

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OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

CLIENT REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

DIGSAU

Revit version 2022.1 | C:\Users\KStrickland\Documents\Francis J Meyers_MEPFP_R22_kstrickland9WCAT.rvt 2020 Francis J Mvers Title Block version 2022.09.14 | Printed 4/24/2023 9:44:00 AM APPROVAL STAMP AREA

FIRE PROTECTION DEMO NOTES:

1. DEMOLISH ALL EXISTING SPRINKLERS AND BRANCH PIPING BACK TO EXISTING DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) IN BASEMENT. PREPARE EXISTING DCDA FOR CONNECTION TO NEW SPRINKLER MAINS.

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303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com	
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FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING	
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FRANCIS J. MYERS ▲	
PROJECT #: 2020 SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/2023	
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FIRE PROTECTION DEMO NOTES:

1. DEMOLISH ALL EXISTING SPRINKLERS AND BRANCH PIPING BACK TO EXISTING DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) IN BASEMENT. PREPARE EXISTING DCDA FOR CONNECTION TO NEW SPRINKLER MAINS.

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LIGHTING DESIGN The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644
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www.databasedplus.com
DATE: DESCRIPTION:
FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING
5800 Chester Ave Philadelphia, PA 19143
PROJECT #: 2020
SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/0000
SHEET NAME:
LEVEL 2
RENOVATION - FIRE PROTECTION DEMOLITION RCP
SHEET NUMBER:
FPD112 A

DIGS

 $1 \frac{1}{1/8"} = 1'-0"$

FIRE PROTECTION DEMO NOTES:

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FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS
5800 Chester Ave Philadelphia, PA 19143
PROJECT #: 2020
SCALE: 1/8" = 1'-0" FORMAT: 30" X 42"
DRAWN:KSCHECKED:LUDATE:4/7/2023
SHEET NAME: LEVEL 3
RENOVATION - FIRE PROTECTION DEMOLITION RCP
SHEET NUMBER:

INDICATES AREA OF ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT, MECHANICAL EQUIPMENT, AND LIGHTING.

<u> ORDINARY HAZARD - GROUP 1</u>

<u>LIGHT HAZARD.</u>

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SHEET NUMBER:
FP110
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: As indicated 30" X 42" FORMAT: DRAWN: KS CHECKED: LU DATE: 4/7/2023 SHEET NAME:

BASEMENT - FIRE

PROTECTION RCP

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

DATE: DESCRIPTION:

LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com

v 215.238.1644 COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103

Suite 1910 Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106

Suite 604 Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com MEP/FP ENGINEER dbHMS 1500 Walnut St

www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street

STRUCTURAL ENGINEER
David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

CIVIL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

ARCHITECT DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com

<u>OWNER</u> CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

CLIENT REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

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FIRE PROTECTION

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INDICATES AREA OF ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE.

CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT,

PROVIDE ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE. HATCH PATTERN

MECHANICAL EQUIPMENT, AND LIGHTING.

<u>LIGHT HAZARD.</u>

ORDINARY HAZARD - GROUP 1

RENOVATION - FIRE PROTECTION RCP
SHEET NUMBER:
FP111 A
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: As indicated FORMAT: 30" X 42" DRAWN: KS CHECKED: LU DATE: 4/7/2023 SHEET NAME: LEVEL 1

RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

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Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102 <u>ARCHITECT</u> **DIGSAU** 340 North 12th Street, Suite 421

Mezzanine Level Philadelphia, PA 19104 <u>OWNER</u> CITY OF PHILADELPHIA

CLIENT REBUILD 1515 Arch Street

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FIRE PROTECTION

APPROVAL STAMP AREA

PROVIDE ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE. HATCH PATTERN INDICATES AREA OF ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT, MECHANICAL EQUIPMENT, AND LIGHTING.

<u> ORDINARY HAZARD - GROUP 1</u>

FIRE PROTECTION RCP
SHEET NUMBER:
FP111 B
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: As indicated 30" X 42" FORMAT: DRAWN: l KS CHECKED: LU DATE: 4/7/2023 SHEET NAME: **LEVEL 1 ADDITION -**

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

v 267.217.1612 LIGHTING DESIGN **The Lighting Practice** 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644

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www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

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<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

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INDICATES AREA OF ORDINARY HAZARD GROUP 1 SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT,

MECHANICAL EQUIPMENT, AND LIGHTING. ORDINARY HAZARD - GROUP 1

EQUIPMENT, AND LIGHTING.

FIRE PROTECTION

<u>Light Hazard.</u>

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RENOVATION - FIRE PROTECTION RCP
SHEET NUMBER:
FP112 A
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #:	2020	
SCALE:	As indicated	
FORMAT:	30" X 42"	
DRAWN:	KS	
CHECKED:	LU	
DATE:	4/7/2023	
SHEET NAME:		

RECREATION CENTER IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

LEVEL 2

FRANCIS J. MYERS SITE AND BUILDING

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

v 267.217.1612 LIGHTING DESIGN The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106

v 215.238.1644

v 610.554.6560

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MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102

v 215.790.0727

123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102

www.groundreconsidered.com

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David Mason & Associates

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Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

CLIENT REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104 <u>OWNER</u> CITY OF PHILADELPHIA

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FIRE PROTECTION

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LIGHT HAZARD.	

PROVIDE LIGHT HAZARD SPRINKLER COVERAGE. LACK OF HATCH PATTERN INDICATES AREA OF LIGHT HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS PER LOCAL BUILDING CODE. COORDINATE SPRINKLER ELEVATIONS AND LAYOUT WITH CEILING LAYOUT, MECHANICAL EQUIPMENT, AND LIGHTING.

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ORDINARY HAZARD - GROUP 1

RENOVATION - FIRE PROTECTION RCP
SHEET NUMBER:
FP113 A
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #:	2020
SCALE:	As indicated
FORMAT:	30" X 42"
DRAWN:	KS
CHECKED:	LU
DATE:	4/7/2023
SHEET NAME:	

RECREATION CENTER IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

LEVEL 3

FRANCIS J. MYERS SITE AND BUILDING

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

LIGHTING DESIGN **The Lighting Practice** 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644 COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103

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<u>CIVIL ENGINEER</u> **David Mason & Associates** 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 <u>STRUCTURAL ENGINEER</u>
David Mason & Associates

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<u>OWNER</u> **CITY OF PHILADELPHIA** Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

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2-D FIRE PROTECTION RISER NTS

	4" FPW 4" FPW 4" FPW 4" FPW
LOBBY	GYM

SHEET NUMBER:
FP400
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #:	2020
SCALE:	12" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	??
CHECKED:	DD/LU
DATE:	4/7/2023
SHEET NAME:	
FIRE PROTECTION	

RISER DIAGRAMS

RECREATION CENTER SITE AND BUILDING IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143

DATE: DESCRIPTION: FRANCIS J. MYERS

LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

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OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

Mezzanine Level Philadelphia, PA 19104

CLIENT REBUILD 1515 Arch Street

FIRE RATED CONCRETE WALL (SOLID OR BLOCK) —

PACKING MATERIAL -

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17 Su Ph v 6	19 Chestnut ite 300 iladelphia, P/ 510.554.6560	Street A 19103
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U.L. APPROVED FIRE CLOSEURE SYSTEM TO MAINTAIN FIRE RATING

10000000

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- PIPE & INSULATION (WHERE APPLICABLE)

STAINLESS STEEL ESCHUTECHEON PLATE IN FINISHED AREAS ONLY

STAINLESS STEEL

ESCUTCHEON PLATE

FINISHED AREAS ONLY

— LINK SEAL

- PIPE

/---- 1" MINIMUM FIREDAM

SIDE

CLAUK

4.4 1

- 14-

<u>SYMB</u>

SYMBOL	С
А	
В	
W	
WAP	
BAS	
ELV	
FACP	
LTC	

*SYMBOLS	
EXAMPLE:	

WALL OUTLET 🚽

CAME
*REFER TO SHE

CONDUITS AND BOXES SHALL BE FOLLOWED.

CONDUIT TRADE SIZE (IN.)	PULL BOX WIDTH (IN.)	PULL BOX LENGTH (IN.)	PULL BOX DEPTH (IN.)	PULL BOX WIDTH INCREASE FOR ADDITIONAL CONDUIT (IN.)
1	4	16	3	2
1 1/4	6	20	3	3
1 1/2	8	27	4	4
2	8	36	4	5
2 1/2	10	42	5	6
3	12	48	5	6
3 1/2	12	54	6	6
4	15	60	8	8

COMMUNICATIONS SYMBOLS - OUTLETS		
$\mathbf{\nabla}$	WALL OUTLET	
4	WALL FEEDPOINT	

SECURITY SYMBOLS - OUTLETS

CEILING OUTLET

-(**T**)-

Σ.	VIDEO SURVEILLANCE - IP CAMERA - INTERIOR CEILING
H	VIDEO SURVEILLANCE - IP CAMERA - WALL OR POLE MOUNT
IC	INTERCOM DOOR STATION
MS	INTERCOM MASTER STATION
VSW	VIDEO SURVEILLANCE WORKSTATION
NOTE: CONTRACTOR SHALL CONFIRM DOOR SEQUENCES OF OPERATION WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.	

<u>SYMBOLS</u>		
X Y	DETAIL REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER	
Y Y	SECTION REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER	
#	KEYNOTE REFERENCE: - (#) DENOTES IDENTIFIER	
HH #	UNDERGROUND HAND HOLE: - (#) DENOTES IDENTIFIER	
\bigotimes	POLE	
	SLEEVE ASSEMBLY	
⊢−−− 1	CONDUIT PATHWAY	
	CABLE TRAY	
	CABLE RUNWAY	
PB	PULL BOX	
—0	CONDUIT UP	
———————————————————————————————————————	CONDUIT DOWN	

UTP \BLES	COAXIAL CABLES	NOTES
1	0	STANDARD NETWORK CONNECTION
2	0	STANDARD NETWORK CONNECTION
1	0	WALL PHONE
2	0	802.11 WIRELESS ACCESS POINT (INTERIOR)
2	0	BUILDING AUTOMATION SYSTEM PANEL NETWORK CONNECTION
2	0	ELEVATOR EMERGENCY PHONE CONNECTION
3	0	FIRE ALARM CONTROL PANEL PHONE CONNECTION
2	0	LIGHTING CONTROL SYSTEM NETWORK CONNECTION
WITHOUT ANY DESIGNATION ARE PATHWAYS ONLY*		

CONDUIT PATHWAYS AND ENCLOSURES

1. GENERAL REQUIREMENTS: A. REQUIREMENTS FOR CONDUITS AND BACK BOXES IN SPECIFICATION 27 05 33 COMMUNICATION

ABBREVIATIONS		
AFC	ABOVE FINISHED CEILING	
AFF	ABOVE FINISHED FLOOR	
AHJ	AUTHORITY HAVING JURISDICTION	
BAS	BUILDING AUTOMATED SYSTEMS	
BMS	BUILDING MANAGEMENT SYSTEMS	
BDF	BUILDING DISTRIBUTION FACILITY	
C	CONDUIT	
CATV	COMMUNITY ANTENNA TELEVISION	
CCTV	CLOSED CIRCUIT TELEVISION	
CP	CONSOLIDATION POINT	
CER	COMMUNICATIONS EQUIPMENT ROOM	
DIM	DIMENSION	
DWG	DRAWING	
EC	EMPTY CONDUIT	
EF	ENTRANCE FACILITY	
(E)	EXIST/EXISTING	
ER	EQUIPMENT ROOM	
F/UTP	FOIL SCREENED TWISTED PAIR	
FOE	FIBER OPTIC ENTRANCE	
GND	GROUND	
HT	HEIGHT/HIGH	
ID	INSIDE DIAMETER	
IDF	INTERMEDIATE DISTRIBUTION FACILITY	
LOMMF	LASER OPTIMIZED MULTIMODE FIBER	
MDF	MAIN DISTRIBUTION FACILITY	
MH	MANHOLE	
MMF	MULTIMODE FIBER	
MPOE	MINIMUM POINT OF ENTRY	
MER	MAIN EQUIPMENT ROOM	
NIC	NOT IN CONTRACT	
NTS	NOT TO SCALE	
OC	ON CENTER	
OD	OUTSIDE DIAMETER	
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	
OFE	OWNER FURNISHED EQUIPMENT	
OFOI	OWNER FURNISHED, OWNER INSTALLED	
OSP	OUTSIDE PLANT CABLE	
PB	PULLBOX	
PR	PAIR	
REQ	REQUIREMENT	
RM	ROOM	
SMF	SINGLE-MODE FIBER	
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR	
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	
TSID	TELECOMMUNICATIONS SPACE IDENTIFICATION	
TR	TELECOMMUNICATIONS ROOM	
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM	
ups	UNINTERRUPTIBLE POWER SUPPLY	
(U/)utp	UNSHIELDED TWISTED PAIR	
Uon	UNLESS OTHERWISE NOTED	
VIF	VERIFY IN FIELD	
WAP	WIRELESS ACCESS POINT	
WP	WEATHERPROOF	
ZDF	ZONE DISTRIBUTION FACILITY	

GENERAL TECHNOLOGY NOTES APPLICABLE TO ALL TECHNOLOGY DRAWINGS

- 1. ALL CABLES SHALL BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. DIRECT CONNECT FIELD ASSEMBLY OF EQUIPMENT TO NETWORK CABLING IS PERMITTED.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO VERIFY THE APPLICABLE CODE VERSION WITH THE AUTHORITY HAVING JURISDICTION (AHJ) FOR ALL WORK PERFORMED.
- 3. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE TELECOM DRAWINGS. OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK. 4. A COPY OF THE SPECIFICATIONS AND DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE AND SHALL BE
- PRESENTED UPON REQUEST. MAINTAIN DAILY MARKUPS OF ACTUAL INSTALLATION AND PRESENT FOR REVIEW DURING ALL SITE VISITS BY ENGINEER. 5. CABLE BUNDLING IS TO BE AVOIDED, ALL CABLES SHALL BE ALLOWED TO LAY NATURALLY IN CABLE TRAYS AND
- RUNWAYS. WHEN BUNDLING IS NECESSARY NO BUNDLE SHALL BE LARGER THAN 24 CABLES. 6. EXACT MOUNTING LOCATIONS AND HEIGHTS ARE FIELD COORDINATION ISSUES. CONTRACTOR TO COORDINATE WITH EXISTING CONDITIONS ON SITE TO PROVIDE THE MOST AESTHETIC APPEARANCE AND ALIGNMENT WITH NEARBY DEVICES.
- 7. TELECOMMUNICATIONS ROOM DIMENSIONS ON THE DRAWINGS HAVE BEEN TAKEN FROM ARCHITECTURAL DRAWINGS. THE SCALE OF THESE DRAWINGS ARE SUFFICIENTLY ACCURATE FOR DETERMINING THE LOCATION OF TELECOMMUNICATIONS INFRASTRUCTURE COMPONENTS, JUNCTION BOXES, OUTLET BOXES, RACEWAYS, RUNWAYS, PANELS, ETC. WHERE EXACT DIMENSIONS ARE INDICATED, THE REFERENCE SURFACE SHALL BE THE
- FINAL FINISHED SURFACE INCLUDING ANY ACOUSTICAL TREATMENT. 8. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD AND ANY DEVIATIONS CAUSING CHANGES EXCEEDING 6 INCHES TO THE INTENDED LOCATION OF MAJOR TELECOMMUNICATIONS INFRASTRUCTURE COMPONENTS SHALL BE COORDINATED WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- 9. IT SHALL BE THE RESPONSIBILITY OF THE TELECOMMUNICATIONS CONTRACTOR TO COORDINATE AND VERIFY SIGNAL/CONDUIT PATHWAYS WITH THE ELECTRICAL DRAWINGS.
- 10. REFER TO DIVISION 27 SPECIFICATIONS FOR INSTALLATION REQUIREMENTS RELATED TO FLOORBOXES, JUNCTION BOXES, BONDING CONDUCTORS, BUSBARS, CONDUITS, CONDUIT BENDS, RUNWAYS IN CORRIDORS, METALLIC ENCLOSURES.
- 11. BOND ALL CONDUITS, CABLE TRAYS, AND JUNCTION BOXES IN TELECOMMUNICATION SPACES PER TIA-607 IN ADDITION TO ANY APPLICABLE CODE REQUIREMENTS.
- 12. PRIOR TO DRILLING OR CORING ANY CONCRETE, NEW OR EXISTING, REBAR AND PT TENDON SHALL BE LOCATED BY SCANNING. SHOP DRAWINGS SHOWING THE COORDINATED LOCATIONS OF OPENINGS AND ANCHORS TO AVOID DAMAGING REBAR AND PT TENDONS SHALL BE SUBMITTED. CORING OF POST-TENSION CONCRETE IS NOT PERMITTED WITHOUT THE REVIEW OF THE ARCHITECTS.
- 13. ALL TELECOMMUNICATIONS RELATED FLOORBOXES, POKE THRU DEVICES, JUNCTION BOXES AND BACK BOXES SHOULD BE PROVIDED WITH AN EMPTY CONDUIT TO THE APPLICABLE TELECOM ROOM, CABLE TRAY, RUNWAY, PULL BOX, OR OPEN ACCESS CEILING AREA.
- 14. CONDUIT ROUTES ON THE TELECOM DRAWINGS SHOW ONLY INTERCONNECTION BETWEEN THE TERMINATION POINTS AND APPROXIMATE ROUTES. THE EXACT ROUTE OF CONDUIT PATHWAYS SHALL BE COORDINATED AND VERIFIED BY CONTRACTOR BASED ON FIELD CONDITIONS.
- 15. CABLE PATHWAYS ON THE TELECOM DRAWINGS SHOW ONLY APPROXIMATE ROUTES. THE EXACT ROUTE OF PATHWAYS ARE TO BE COORDINATED AND VERIFIED BY CONTRACTOR BASED ON FIELD CONDITIONS. 16. THE METHOD OF INSTALLATION FOR ALL TELECOMMUNICATIONS RELATED BACKBOXES IN WALLS AND THE METHOD
- FOR PASSAGE OF CONDUIT AND RUNWAYS THROUGH ACOUSTICALLY SENSITIVE WALLS SHALL BE COORDINATED WITH THE ACOUSTICAL CONSULTANT OR OWNER PRIOR TO INSTALLATION. 17. ALL TELECOMMUNICATIONS DEVICES SHALL BE SECURELY MOUNTED PLUMB AND STRAIGHT TO WALLS, FLOORS,
- OR RACKS, PER THE MANUFACTURER'S RECOMMENDED MOUNTING PRACTICE. 18. CABLES INSTALLED IN ANY UNDERGROUND CONDUITS, INCLUDING UNDER OR WITHIN A SLAB ON GRADE, SHALL BE INDOOR/OUTDOOR RATED.
- 19. INSTALL FIRESTOP ASSEMBLIES IN ALL THROUGH-SLAB OR THROUGH-WALL RATED BARRIER PENETRATIONS FOR THE INSTALLATION OF TELECOMMUNICATIONS CABLING AS REQUIRED TO MAINTAIN FIRE RATING OF PENETRATED SLAB OR WALL. REVIEW DRAWINGS FOR PARTITION TYPE RATINGS. FIRESTOPPING SYSTEMS USED FOR ALL PENETRATIONS SHALL BE A UL LISTED ASSEMBLY AND APPROVED BY APPLICABLE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
- 20. SLEEVE ASSEMBLIES THAT PENETRATE RATED BARRIERS SHALL BE EZ-PATH OR EQUAL ASSEMBLIES TO ALLOW FOR SIMPLE MAINTENANCE FREE RE-ENTRY WITHOUT DISTURBING SEALANT AND SHALL A PROVIDE SMOKE BARRIER IN ADDITION TO FIRE RATING.
- 21. ELECTRICAL FEEDS ARE NOT TO BE RUN PARALLEL WITH VIDEO, AUDIO, OR TELECOMMUNICATIONS CABLING OR RACEWAYS. IF ELECTRICAL FEEDS MUST BE RUN PARALLEL, A MINIMUM OF 6 INCHES OF SEPARATION SHALL BE MAINTAINED.
- 22. POWER RECEPTACLES SHOWN ON TELECOMMUNICATIONS DRAWINGS ARE DEDICATED TO SPECIFIC TELECOMMUNICATIONS EQUIPMENT AND ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ENGINEERED ELECTRICAL SYSTEM AND ADDITIONAL UTILITY POWER RECEPTACLES.
- 23. THE FINISHES FOR ALL TELECOM COMPONENTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.
- 24. AUDIO/VISUAL AND SECURITY OUTLET DETAILS ARE PROVIDED IN THEIR RESPECTIVE DRAWING SETS. REFER TO DETAILS IN THOSE DRAWINGS FOR HEIGHT AND LOCATION DETAILS FOR AV AND SECURITY OUTLETS AND DEVICES. 25. TERMINATION OF OUTLETS IN ELEVATOR CONTROL AND ELEVATOR MACHINE ROOMS SHALL BE COORDINATED WITH
- ELEVATOR CONTRACTOR. ADDITIONAL SLACK MAY BE REQUIRED IN THESE LOCATIONS. 26. DIRECT CONNECT FIELD ASSEMBLY OF EQUIPMENT TO NETWORK CABLING IS PERMITTED.
- 27. CONTRACTOR SHALL RETURN ALL EXISTING CAMERAS, SURVEILLANCE HEAD EQUIPMENT (AND ASSOCIATED EQUIPMENT, COMPUTERS AND ACTIVE NETWORK EQUIPMENT TO OWNER (PPR).

SHEET LIST

SHEET NUMBER	SHEET NAME
T000	TECHNOLOGY SYMBOLS, NOTES & ABBREVIATIONS
T100	TECHNOLOGY SITE PLAN
T110	LEVEL B RENOVATION - TECHNOLOGY PLAN
T111 A	LEVEL 1 RENOVATION - TECHNOLOGY PLAN
T111 B	LEVEL 1 ADDITION - TECHNOLOGY PLAN
T112 A	LEVEL 2 RENOVATION - TECHNOLOGY PLAN
T113 A	LEVEL 3 RENOVATION - TECHNOLOGY PLAN
T310	ENLARGED TECHNOLOGY AXONOMETRICS
T500	TECHNOLOGY SCHEDULES
T600	TECHNOLOGY DETAILS - STRUCTURED CABLING
T601	TECHNOLOGY DETAILS - STRUCTURED CABLING
T620	TECHNOLOGY DETAILS - VIDEO SURVEILLANCE
TD110 A	BASEMENT - TECHNOLOGY DEMOLITION PLAN

PROJECT PHASE: CONSTRUCTION DOCUMENTS

T000

SHEET NUMBER:

SHEET NAME: TECHNOLOGY SYMBOLS, NOTES & ABBREVIATIONS

PROJECT #:	2020
SCALE:	12" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING **IMPROVEMENTS**

\triangle	DATE:	DESCRIPTION:

www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

Suite 300 Philadelphia, PA 19103 v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600

MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN
The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106

v 215.238.1644

COST ESTIMATING

Dharam Consulting

1719 Chestnut Street

www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727

www.groundreconsidered.com

123 S. Broad St Suite 1130 Philadelphia, PA 19109

David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER
David Mason & Associates

<u>ARCHITECT</u> DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com CIVIL ENGINEER

1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> REBUILD

1515 Arch Street Mezzanine Level

Philadelphia, PA 19104

CITY OF PHILADELPHIA Department of Parks and Recreation

KEY PLAN EXISTING \bigotimes

 LEVEL B - DEMOLITION TECHNOLOGY PLAN

 1/8" = 1'-0"

0' 4' 8' 16

2. THE TECHNOLOGY DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING TECHNOLOGY WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS. WHERE EXISTING INTERIOR AND/OR SITE TECHNOLOGY WORK MUST BE DEMOLISHED AS A RESULT OF THE ALTERATIONS, IT SHALL BE COMPLETELY DEMOLISHED. BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT, WIRE, SUPPORTS, HANGERS, ETC. ARE INCLUDED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF PLUGGED AT EACH END. EXISTING TECHNOLOGY MATERIALS AND EQUIPMENT, INCLUDING TELECOMMUNICATIONS DEVICES, SECURITY DEVICES, CONDUIT OUTLETS, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH ARE DEMOLISHED AS A RESULT OF THE ALTERATIONS SHALL BE STORED ON THE SITE AS DIRECTED. 5. ALL ITEMS OF EXISTING EQUIPMENT, MATERIALS, ETC. SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER. ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION SHALL BE RETAINED AND TURNED OVER TO THE BUILDING OWNER. 6. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING TECHNOLOGY MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW. CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK. 3. CONTRACTOR SHALL PERFORM ALL INTERIOR AND/OR SITE CUTTING AND

PATCHING FOR TECHNOLOGY WORK UNLESS NOTED OTHERWISE.

TECHNOLOGY DEMOLITION KEY NOTES: (#)

LOCATION OF EXISTING INCOMING SERVICE PROVIDER EQUIPMENT AND CABLING AND TELEPHONE SYSTEM. COORDINATE WITH SERVICE PROVIDER FOR RELOCATION OF EQUIPMENT TO NEW MDF ROOM IN BASEMENT LEVEL (REFER TO SHEET T.110 FOR NEW LOCATION) PRIOR TO DEMOLITION WORK. CONTRACTOR SHALL COORDINATE WITH OWNER FOR TELEPHONE LINE INFORMATION AND WORK WITH SERVICE PROVIDER TO ENSURE EXISTING TELEPHONE NUMBER AND SERVICE CONNECTION SHALL REMAIN.

INCLUDED UNDER THE CONTRACT.

SUCH EXISTING TECHNOLOGY WORK PREVENTS PROPER

EXISTING INTERIOR AND/OR SITE TECHNOLOGY WORK. SUCH

PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS

FORMAT:	30" X 42"
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SHEET NU	LITION PLAN MBER: 110 A
SHEET NU TD'	LITION PLAN MBER: 110 A
SHEET NU TD'	LITION PLAN MBER: 110 A PHASE:

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

1/8" = 1'-0"

5800 Chester Ave Philadelphia, PA 19143

PROJECT #: 2020

SCALE:

DATE: DESCRIPTION:

Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

COST ESTIMATING
Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560 ENVIRONMENTAL CONSULTANT

Suite 772 Philadelphia, PA 19106 v 215.238.1644

1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN
The Lighting Practice 600 Chestnut Street

Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com MEP/FP ENGINEER dbHMS

Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com

LANDSCAPE ARCHITECT

Ground Reconsidered 230 South Broad Street

v 215.375.6059

Suite 604

<u>ARCHITECT</u> DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com CIVIL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130

CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

CONSTRUCTION OF NEW WORK AS INDICATED. PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE. REROUTE. RELOCATE OR IN OTHER WAYS ALTER THAT

TECHNOLOGY SHEET NOTES:

- 1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF EXISTING SITE LIGHTING POLES.
- 2. TERMINATE CONDUCT DUCT BANK CONCRETE ENCASEMENT AT THE
- BUILDING FOUNDATION. CONTINUE CONDUIT TO LEVEL B MDF ROOM FOR TERMINATION. REFER TO DETAIL T600/2
- 3. ALL CONDUITS ROUTED BELOW THE BUILDING, PAVED SURFACES SUCH AS ENTRY/EXIT DRIVEWAYS, ROADWAYS AND SIDEWALKS SHALL BE CONCRETE ENCASED.
- 4. CONCRETE ENCASE CONDUIT DUCT BANKS WITHIN 6'-0" OF THE
- BUILDING FOUNDATIONS. 5. ALL CONDUIT DUCT BANKS SHALL BE LONG RADIUS SWEEPS AND
- CONSIST OF SCHEDULE 40 PVC CONDUIT. CONDUIT BENDS TURNING INTO THE BUILDING FOR TERMINATIONS SHALL BE CONCRETE ENCASED.
- 6. ALL EXISITING CAMERAS AND ASSOCIATED EQUIPMENT SHALL BE RETURNED TO OWNER.
- ADD ALTERNATE NO. 4: REFER TO DETAIL 6/T620 FOR HYBRID FIBER/COPPER REQUIREMENT FOR SITE CAMERAS.

TECHNOLOGY KEY NOTES:(# 1. EXISTING UTILITY POLE

- 2. EXISTING OVERHEAD TELECOMMUNICATION LINE SERVING FRANCIS MYERS BUILDING
- 3. LOCATION OF LEVEL B MDF ROOM
- ADD ALTERNATE NO. 1: PROVIDE 18"H X 18"W X 18"D SECURITY HAND HOLE DEDICATED TO SITE MOUNTED CAMERA SMFO CABLING. REFER TO DETAIL 1/T.600.
- ADD ALTERNATE NO. 1: PROVIDE (1) 4" CONDUIT FOR SITE MOUNTED CAMERA CABLING FROM MDF ROOM TO SECURITY HAND HOLE AT BUILDING EXTERIOR.
- ADD ALTERNATE NO. 1: PROVIDE (1) 4" CONDUIT FOR SITE MOUNTED CAMERA CABLING BETWEEN SECURITY HAND HOLES.
- ADD ALTERNATE NO. 1: PROVIDE (1) 2" CONDUIT FROM ADJACENT SECURITY HAND HOLE TO POLE MOUNTED VIDEO SURVEILLANCE ENCLOSURE.
- 8. ADD ALTERNATE NO. 1: EXISTING SITE LIGHTING POLE
- 9. PROVIDE 18"H X 18"W X 18"D SECURITY HAND HOLE DEDICATED TO SITE MOUNTED CAMERA SMFO CABLING. REFER TO DETAIL 1/T.600.
- 10. PROVIDE (1) 4" CONDUIT FOR SITE MOUNTED CAMERA CABLING BETWEEN SECURITY HAND HOLES.
- 11. PROVIDE (1) 2" CONDUIT FROM ADJACENT SECURITY HAND HOLE TO POLE MOUNTED VIDEO SURVEILLANCE ENCLOSURE

SHEET NUMBER:
T100
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

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TECHN	OLOGY SITE
SHEET NAM	E:
DATE:	4/7/2023
CHECKED:	SS
DRAWN:	GD
FORMAT:	30" X 42"
SCALE:	1" = 30'-0"
PROJECT #:	2020

DESCRIPTION: FRANCIS J. MYERS **RECREATION CENTER** SITE AND BUILDING

IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

DATE:

801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644 COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300

Philadelphia, PA 19103 v 610.554.6560

ENVIRONMENTAL CONSULTANT Brightfields, Inc.

LIGHTING DESIGN The Lighting Practice

MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612

LANDSCAPE ARCHITECT Ground Reconsidered Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com

v 215.375.6059 230 South Broad Street Suite 604

123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com

www.davidmason.com v 215.375.6059 STRUCTURAL ENGINEER David Mason & Associates

v 215.627.0808 www.digsau.com CIVIL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

<u>ARCHITECT</u> **DIGSAU** Philadelphia, PA 19107

Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102 340 North 12th Street, Suite 421

<u>CLIENT</u> REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104 <u>OWNER</u> CITY OF PHILADELPHIA

TECHNOLOGY GENERAL NOTES:

- 1. ROUTE VOICE AND DATA CABLING ON FIRST FLOOR TO DEDICATED VOICE AND DATA PATCH PANELS IN LEVEL B MDF ROOM. 2. ROUTE ALL SURVEILLANCE CAMERA CABLING ON THIS FLOOR TO
- DEDICATED SURVEILLANCE CAMERA PATCH PANELS IN LEVEL B MDF ROOM. CONTRACTOR SHALL INSTALL ALL NECESSARY CONNECTIONS AT CAMERA AND PATCH PANEL INCLUDING ALL PATCH CORDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- 8. ROUTE ALL ACCESS CONTROL CABLING ON THIS FLOOR TO ACCESS CONTROL EQUIPMENT LOCATION IN LEVEL B MDF ROOM.
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF DATA OUTLETS FOR DISPLAY MONITORS.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR NOTATIONS ON RECESSED MOUNTED, SURFACE MOUNTED AND PEDESTAL MOUNTED CARD READER AND PUSH PLATE ACTUATORS.
- 6. REFER TO SHEET T.500 FOR ACCESS CONTROL AND VIDEO SURVEILLANCE SCHEDULES.

TECHNOLOGY KEY NOTES: (#)

- . LOCATION OF EXISTING INCOMING SERVICE PROVIDER EQUIPMENT AND CABLING AND TELEPHONE SYSTEM. COORDINATE WITH SERVICE PROVIDER FOR RELOCATION OF EQUIPMENT TO NEW MDF ROOM IN BASEMENT LEVEL PRIOR TO DEMOLITION WORK.
- VOICE OUTLET (PHONE LINE) FOR FIRE ALARM CONTROL PANEL. COORDINATE FINAL LOCATIÓN WITH FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN. REFER TO DETAIL 11/T.600.
- VOICE (PHONE LINE) OUTLET DEDICATED TO ELEVATOR EMERGENCY TELEPHONE CONNECTIVITY. COORDINATE LOCATION OF ELEVATOR CONTROL CABINET AND CONDUIT PENETRATION WITH ELEVATOR CONTRACTOR PRIOR

RENOVATION - TECHNOLOGY PLAN
SHEET NUMBER:
T110
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

LEVEL B		
SHEET NAME:		
DATE:	4/7/2023	
CHECKED:	SS	
DRAWN:	GD	
FORMAT:	30" X 42"	

PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS

DESCRIPTION:

DATE:

Suite 300 Philadelphia, PA 19103 v 610.554.6560 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

ENVIRONMENTAL CONSULTANT Brightfields, Inc.

COST ESTIMATING Dharam Consulting 1719 Chestnut Street

<u>MEP/FP ENGINEER</u> dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644

LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com

STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

v 215.375.6059

CIVIL ENGINEER David Mason & Associates

340 North 12th Street, Suite 421

<u>ARCHITECT</u> **DIGSAU** Philadelphia, PA 19107

<u>OWNER</u> CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

DIGSAL

<u>CLIENT</u> REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

v 215.627.0808 www.digsau.com

123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com

TECHNOLOGY KEY NOTES: (#)

PRIOR TO ROUGH-INS.

3. REFER TO SHEET T.500 FOR ACCESS CONTROL AND VIDEO

AND LOCATIONS OF DATA OUTLETS FOR DISPLAY MONITORS.

AND PUSH PLATE ACTUATORS.

MOUNTED, SURFACE MOUNTED AND PEDESTAL MOUNTED CARD READER

1. ROUTE VOICE AND DATA CABLING ON FIRST FLOOR TO DEDICATED VOICE

2. ROUTE ALL SURVEILLANCE CAMERA CABLING ON THIS FLOOR TO DEDICATED SURVEILLANCE CAMERA PATCH PANELS IN LEVEL B MDF ROOM. CONTRACTOR SHALL INSTALL ALL NECESSARY CONNECTIONS AT CAMERA AND PATCH PANEL INCLUDING ALL PATCH CORDS FOR A

ROUTE ALL ACCESS CONTROL AND INTRUSION DETECTION SYSTEM

REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS

5. REFER TO ARCHITECTURAL DRAWINGS FOR NOTATIONS ON RECESSED

I. COORDINATE WITH ARCHITECT AND FURNITURE FOR EXACT LOCATIONS

CABLING ON THIS FLOOR TO ACCESS CONTROL AND INTRUSION

DETECTION SYSTEM PANELS IN LEVEL B MDF ROOM.

AND DATA PATCH PANELS IN LEVEL B MDF ROOM.

COMPLETE AND FUNCTIONAL SYSTEM.

SURVEILLANCE SCHEDULES.

TECHNOLOGY GENERAL NOTES:

	DESCRIPTION:
FRANCE	S J. MYERS
RECREA	ATION CENTER
SITE AN	
IMPROV	EMENIS
5800 Cheste	r Ave
Philadelphia,	PA 19143
PROJECT #	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
	GD
DATE:	4/7/2023
SHEET NAM	IE:
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STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 v 215.790.0727 www.groundreconsidered.com

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Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

<u>CLIENT</u> REBUILD

1515 Arch Street

Mezzanine Level

Philadelphia, PA 19104

<u>OWNER</u> CITY OF PHILADELPHIA

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<u>ARCHITECT</u> **DIGSAU** 340 North 12th Street, Suite 421

<u>CIVIL ENGINEER</u> David Mason & Associates

123 S. Broad St Suite 1130

Philadelphia, PA 19102

v 267.217.1612

LIGHTING DESIGN The Lighting Practice

600 Chestnut Street Suite 772 Philadelphia, PA 19106

v 215.238.1644

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TECHNOLOGY GENERAL NOTES:

- 1. ROUTE VOICE AND DATA CABLING ON FIRST FLOOR TO DEDICATED VOICE AND DATA PATCH PANELS IN LEVEL B MDF ROOM. 2. ROUTE ALL SURVEILLANCE CAMERA CABLING ON THIS FLOOR TO DEDICATED SURVEILLANCE CAMERA PATCH PANELS IN LEVEL B MDF
- ROOM. CONTRACTOR SHALL INSTALL ALL NECESSARY CONNECTIONS AT CAMERA AND PATCH PANEL INCLUDING ALL PATCH CORDS FOR A COMPLETE AND FUNCTIONAL SYSTEM. B. ROUTE ALL ACCESS CONTROL CABLING ON THIS FLOOR TO ACCESS
- CONTROL IN LEVEL B MDF ROOM.
- 4. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF DATA OUTLETS FOR DISPLAY MONITORS.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR NOTATIONS ON RECESSED MOUNTED, SURFACE MOUNTED AND PEDESTAL MOUNTED PUSH PLATE ACTUATORS.
- 6. REFER TO SHEET T.500 FOR VIDEO SURVEILLANCE SCHEDULE.

TECHNOLOGY KEY NOTES: #

. PROVIDE VIDEO DOOR INTERCOM STATION RECESSED MOUNTED. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT.

TECHNOLOGY PLAN
SHEET NUMBER: T111 B
PROJECT PHASE: CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: 1/8" = 1'-0" FORMAT: 30" X 42" DRAWN: GD CHECKED: SS DATE: 4/7/2023 SHEET NAME:

LEVEL 1 ADDITION -

RECREATION CENTER

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS SITE AND BUILDING IMPROVEMENTS

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

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Suite 300

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OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102 ARCHITECT DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808

CLIENT REBUILD 1515 Arch Street

Mezzanine Level Philadelphia, PA 19104

\square	DATE:	DESCRIPTION:
FF	RANCI	S J. MYERS
R	ECREA	TION CENTER
SI		D BUII DING
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580)0 Chester	· Ave
Phi	ladelphia,	PA 19143
PRC	DJECT #:	2020
SCA	LE:	1/8" = 1'-0"
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v 267.217.1612 LIGHTING DESIGN The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644 COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103

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Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

CLIENT REBUILD 1515 Arch Street

Mezzanine Level Philadelphia, PA 19104

<u>OWNER</u> CITY OF PHILADELPHIA

DIGSAU

ARCHITECT DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com

STRUCTURAL ENGINEER
David Mason & Associates

123 S. Broad St Suite 1130 Philadelphia, PA 19109

FRANCIS J. MYERS RECREATION CENTER SITE AND BUILDING IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143	
PROJECT #:	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
DRAWN:	GD
CHECKED:	SS
DATE:	4/7/2023
SHEET NAME	3 ATION - DLOGY PLAN
	BER: 3 A
PROJECT PHASE: CONSTRUCTION DOCUMENTS	

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

COST ESTIMATING Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560

www.groundreconsidered.com MEP/FP ENGINEER dbHMS 1500 Walnut St Suite 1910 Philadelphia, PA 19102 v 267.217.1612 LIGHTING DESIGN **The Lighting Practice** 600 Chestnut Street Suite 772 Philadelphia, PA 19106 v 215.238.1644

www.davidmason.com v 215.375.6059 LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102

v 215.790.0727

STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109

<u>CIVIL ENGINEER</u> David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059

ARCHITECT DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com

OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102

DIGSAU <u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

REFER TO ELECTRICAL DRAWINGS FOR FINAL ELECTRICAL LAYOUT AND REQUIREMENTS. 2. MDF ROOM SHALL SERVE ALL TELECOMMUNICATIONS, SURVEILLANCE AND ACCESS CONTROL CABLING THROUGHOUT THE BUILDING. 4. PROVIDE MOUNTING HARDWARE AS NECESSARY TO MAINTAIN THE 5. PROVIDE VERTICALLY MOUNTED CABLE SUPPORT AS NECESSARY TO VERTICALLY ROUTE CABLING. REFER TO DETAIL SHEET FOR CABLE

TECHNOLOGY GENERAL NOTES

3. CABLE LADDER TRAY, 18" WIDE, 2" DEEP, BLACK POWDER COAT FINISH

7. SPACE DEDICATED FOR INTERCOM ACCESS CONTROL EQUIPMENT.

- 6. DEDICATED 20A JUNCTION BOX WITH 120V CIRCUIT FOR INTERCOM

AXONOMETRICS
SHEET NUMBER:
T310
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

TECHNOLOGY				
ENLARGED				
SHEET NAME:				
DATE:	4/7/2023			
CHECKED:	SS			
DRAWN:	GD			
FORMAT:	30" X 42"			

PROJECT #:	2020
SCALE:	1/2" = 1'-0"
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	-

SITE AND BUILDING IMPROVEMENTS

5800 Chester Ave Philadelphia, PA 19143

FRANCIS J. MYERS RECREATION CENTER

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DIGS

CLIENT REBUILD 1515 Arch Street

Mezzanine Level

Philadelphia, PA 19104

											VIDEO SUR	/EILLANCE SCH	IEDULE								
					CAMERA CONNEC					CONNECTIVITY	(
				MOUNT	ТҮРЕ			HOUSING				MOUNT					DATA POWER				
SECURITY DRAWING	DETAIL #	CAMERA ID#	CAMERA TYPE	LOCATION	FIXED	360°	180 DEGREE	DOME	BOX	ENVIRONMENTAL	VANDAL RESISTANT	WALL SURFACE	WALL PENDANT	CEILING	TELESCOPIC	POLE	IP	POE	24VAC	TERMINATION POINT	NOTES
SITE																					
– <u>– – –</u> T100	7/T.620			EXTERIOR		•		•		•	•					•	FIBER	•			
T100	7/T.620	C6-S-02	TYPE E	EXTERIOR		•		•		•	•					•	FIBER	•		MDF B03	
T100	7/T.620	C6-S-03	TYPE E	EXTERIOR		•		•		•	•					•	FIBER	•		MDF B03	
T100	7/T.620	C6-S-04	TYPE E	EXTERIOR		•		•		•	•					•	FIBER	•		MDF B03	
T100	7/T.620	C6-S-05	TYPE E	EXTERIOR		•		•		•	•					•	FIBER	•		MDF B03	
T100	7/T.620	C6-S-06	TYPEE	EXTERIOR		•		•		•	•					•	FIBER	•		MDF B03	
T100	7/T.620	C6-S-07	TYPE E	EXTERIOR		•		•		•	•					•	FIBER	•		MDF B03	
<u></u>	2/T.620	C3-S-08		EXTERIOR						•	+				+			<u>-</u>		MDF B03	
T100	2/T.620	C3-S-09	TYPE D	EXTERIOR	•			•		•	•		•				UTP	•		MDF B03	
T100	1/T.620	C4-S-10	TYPE E	EXTERIOR		•		•		•	•		•				UTP	•		MDF B03	
T100	2/T.620	C3-S-11	TYPE D	EXTERIOR	•			•		•	•		•				UTP	•		MDF B03	
T100	2/T.620	C3-S-12	TYPE D	EXTERIOR	•			•		•	•		•				UTP	•		MDF B03	
T100	1/T.620	C4-S-13	TYPE E	EXTERIOR		•		•		•	•		•				UTP	•		MDF B03	
T100	2/T.620	C3-S-14	TYPE D	EXTERIOR	•			•		•	•		•				UTP	•		MDF B03	
T100	2/T.620	C3-S-15	TYPE D	EXTERIOR	•			•		•	•		•				UTP	•		MDF B03	
BASEMENT		1														I			1		
T110	4/T.620	C2-FB-01	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T110	4/T.620	C2-FB-02	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T110	3/T.620	C1-FB-03	TYPE C	INTERIOR		•		•		•	•			•			UTP	•		MDF B03	
T110	3/T.620	C1-FB-04	TYPE C	INTERIOR		•		•		•	•			•			UTP	•		MDF B03	
T110	3/T.620	C1-FB-05	TYPE C	INTERIOR		٠		•		•	•			•			UTP	•		MDF B03	
T110	3/T.620	C1-FB-06	TYPE C	INTERIOR		•		•		•	•			•			UTP	•		MDF B03	
T110	3/T.620	C1-FB-07	TYPE B	INTERIOR	•			•		•	•			•			UTP	•		MDF B03	
LEVEL 1			1 1												1						
T111A	5/T.620	C2-F1-01	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T111A	3/T.620	C2-F1-02	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T111A	3/T.620	C2-F1-03	TYPE A	INTERIOR	•			•		•	•	•					UTP	٠		MDF B03	
T111A	3/T.620	C1-F1-04	TYPE B	INTERIOR	•			•		•	•			•			UTP	•		MDF B03	
T111A	3/T.620	C1-F1-05	TYPE C	INTERIOR		٠		•		•	•			•			UTP	•		MDF B03	
T111B	3/T.620	C1-F1-06	TYPE C	INTERIOR		٠		•		•	•			•			UTP	٠		MDF B03	
T111B	3/T.620	C1-F1-07	TYPE C	INTERIOR		٠		•		•	•			٠			UTP	•		MDF B03	
T111B	4/T.620	C2-F1-08	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T111B	4/T.620	C2-F1-09	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T111B	3/T.620	C1-F1-10	TYPE B	INTERIOR	•			•		•	•			•			UTP	•		MDF B03	
LEVEL 2	÷		· · ·				I	1			·								· ·		
T112A	5/T.620	C2-F2-01	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T112A	3/T.620	C1-F2-02	TYPE C	INTERIOR		•		•		•	•			•			UTP	•		MDF B03	
T112A	3/T.620	C1-F2-03	TYPE C	INTERIOR		٠		•		•	•			•			UTP	٠		MDF B03	
T112A	5/T.620	C2-F2-04	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
T112A	5/T.620	C2-F2-05	TYPE A	INTERIOR	•			•		•	•	•					UTP	•		MDF B03	
LEVEL 3																					
T113A	9/T.620	C3-F3-01	TYPE D	EXTERIOR	•			•		•	•		•				UTP	•		MDF B03	
GENERAL N					·														·		

GENERAL NOTES: 1. REFER TO SPECIFICATION SECTION 28 23 00 FOR CAMERA TYPES AND OTHER REQUIREMENTS. 2. PRIOR TO SUBSTANTIAL COMPLETION, CONFIRM FINAL CAMERA AIMING WITH OWNER, MAKING ANY ADJUSTMENTS AS REQUIRED.

SHEET NUMBER:
T500
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

PROJECT #: 2020 SCALE: FORMAT: 30" X 42" DRAWN: GD CHECKED: SS DATE: 4/7/2023 SHEET NAME: TECHNOLOGY

SCHEDULES

IMPROVEMENTS 5800 Chester Ave Philadelphia, PA 19143

RECREATION CENTER

SITE AND BUILDING

FRANCIS J. MYERS

DATE: DESCRIPTION:

ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600 www.brightfields.com LEED CONSULTANT DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312.915.0557 www.databasedplus.com

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<u>CLIENT</u> **REBUILD** 1515 Arch Street Mezzanine Level Philadelphia, PA 19104

DIGSAU

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	<u>CLIENT</u> REBUILD 1515 Arch Street Mezzanine Level Philadelphia, PA 19104
	OWNER CITY OF PHILADELPHIA Department of Parks and Recreation 1515 Arch Street, 10th Floor Philadelphia, PA 19102
	ARCHITECT DIGSAU 340 North 12th Street, Suite 421 Philadelphia, PA 19107 v 215.627.0808 www.digsau.com
	CIVIL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com v 215.375.6059
	STRUCTURAL ENGINEER David Mason & Associates 123 S. Broad St Suite 1130 Philadelphia, PA 19109 www.davidmason.com
	LANDSCAPE ARCHITECT Ground Reconsidered 230 South Broad Street Suite 604 Philadelphia, PA 19102 y 215 790 0727
	W215.790.0727 www.groundreconsidered.com <u>MEP/FP ENGINEER</u> dbHMS 1500 Walnut St Suite 1910 Philadelphia_PA 19102
-	v 267.217.1612 <u>LIGHTING DESIGN</u> The Lighting Practice 600 Chestnut Street Suite 772 Philadelphia, PA 19106
	v 215.238.1644 <u>COST ESTIMATING</u> Dharam Consulting 1719 Chestnut Street Suite 300 Philadelphia, PA 19103
	v 610.554.6560 <u>ENVIRONMENTAL CONSULTANT</u> Brightfields, Inc. 801 Industrial Street Wilmington, DE 19801 v 302.656.9600
	www.brightfields.com <u>LEED CONSULTANT</u> DataBased+ 303 W Erie Street, Suite 510 Chicago, IL 60654 v 312 915 0557
	www.databasedplus.com
IATE 01	DATE: DESCRIPTION:
	FRANCIS I MYERS
	RECREATION CENTER SITE AND BUILDING IMPROVEMENTS
	5800 Chester Ave Philadelphia, PA 19143
•	PROJECT #:2020SCALE:As indicatedFORMAT:30" X 42"DRAWN:GDCHECKED:SSDATE:4/7/2023
1771 -	SHEET NAME: TECHNOLOGY DETAILS -
KET BASE	STRUCTURED CABLING
NS".	SHEET NUMBER: T600
-	PROJECT PHASE: CONSTRUCTION DOCUMENTS

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PROJECT PHASE: CONSTRUCTION DOCUMENTS

T620

SHEET NUMBER:

SHEET NAME: TECHNOLOGY **DETAILS - VIDEO** SURVEILLANCE

PROJECT #.	2020
SCALE:	1/8" = 1'-0"
FORMAT:	30" X 42"
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Philadelphia, PA 19143

IMPROVEMENTS 5800 Chester Ave

FRANCIS J. MYERS

SITE AND BUILDING

RECREATION CENTER

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v 215.238.1644 COST ESTIMATING **Dharam Consulting** 1719 Chestnut Street Suite 300 Philadelphia, PA 19103 v 610.554.6560 ENVIRONMENTAL CONSULTANT Brightfields, Inc. 801 Industrial Street

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CITY OF PHILADELPHIA

Philadelphia, PA 19102

1515 Arch Street, 10th Floor

Department of Parks and Recreation

<u>CLIENT</u> REBUILD

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