LEGEND

- $_T — 20A, 120V MOTOR HORSEPOWER RATED DISCONNECT SWITCH - TOGGLE TYPE MATCH RATING WITH EQUIPMENT
- $^{a}_{s}$ — SINGLE POLE TOGGLE SWITCH, FLUSH MOUNTED AT 4'-0." SUBSCRIPT 'a' DENOTES FIXTURES CONTROLLED. 'K' INDICATES KEY OPERATED. '3' INDICATES THREE-WAY SWITCH. 'VS' INDICATES VACANCY SENSOR. 'OS' INDICATES OCCUPANCY SENSOR. 'DS' INDICATES DAYLIGHT SENSOR. 48"AFF
- SURFACE MOUNTED ELECTRICAL PANELBOARD
- RECESSED MOUNTED ELECTRICAL PANELBOARD
- DISCONNECT SWITCH, RATING AND FUSING NOTED. HORSEPOWER RATING AS REQUIRED BY MOTOR LOAD. 'WP' INDICATES WEATHERPROOF NEMA-4X ENCLOSURE, OTHERWISE NEMA-1. 'L' INDICATES LOCKABLE TYPE.
- (J) — JUNCTION BOX SIZE AS REQUIRED
- [D] — DATA PULL BOX, FLOOR FLUSH MOUNTED, SIZE AS REQUIRED FOR BOX AND CONDUIT
- "PP–K,2" — HOMERUN TO PANELBOARD (CIRCUIT NO. AS INDICATED)
- DUPLEX THREE WIRE GROUNDED RECEPTACLE, 20A / 30A, 125V, 1-POLE. 'GFCI' DENOTES GROUND FAULT (CIRCUIT) INTERRUPTER , 'S' DENOTES SURGE SUPPRESSION, 'L' DENOTES LOCKABLE. 18"AFF
- SINGLE THREE WIRE GROUNDED RECEPTACLE, 20A, 125V, 1-POLE. 'GFCI' DENOTES GROUND FAULT (CIRCUIT) INTERRUPTER .
- (J) A — 1'x4' LED LIGHT FIXTURE, WITH JUNCTION BOX, TYPE AS INDICATED
- EXISTING CONDUIT/WIRING
- NEW CONDUIT/WIRING
- MOTOR STARTER, AS SPECIFIED
- REMOVAL ITEMS AS INDICATED ON DEMOLITION PLAN
- DUPLEX DATA OUTLET WITH 2-'RJ45' JACKS EACH LABELED 'DATA' WITH CAT6 CABLE, EACH RUN BACK TO THE CORRESPONDING DATA RACK. 18" AFF
- DUPLEX DATA OUTLET WITH 2-'RJ45' JACK. ONE LABELED 'DATA', OTHER LABELED 'TELEPHONE' WITH CAT6 CABLE, RUN BACK TO THE CORRESPONDING DATA RACKS. 18" AFF
- TC — TIME CLOCK TO CONTROL EXTERIOR LIGHTING FIXTURES
- $_{FH}$ — KEY OPEREATED MANUAL STARTER FOR FIXED FUME HOOD WITH PILOT LIGHT
- MGCV — MASTER GAS CONTROL VALVE 120V AC OR DC, AS NOTED
- GVC — GAS CONTROL VALVE RELAY PANEL (ASCO)
- GPB — EMERGENCY GAS SHUTOFF MUSHROOM TYPE PUSHBUTTON SWITCH OFF ONLY FLUSH MTD. AT 4'-0" AFF.
- EPB — EMERGENCY POWER SHUTOFF MUSHROOM TYPE PUSHBUTTON SWITCH OFF ONLY FLUSH MTD. AT 4'-6" AFF.
- GS — EMERGENCY GAS SHUTOFF SWITCH WITH KEY ON AND PUSHBUTTON OFF. FLUSH MTD. AT 4'-0" AFF.
- ES — EMERGENCY POWER SHUTOFF SWITCH WITH KEY ON AND PUSHBUTTON OFF. FLUSH MTD. AT 4'-0" AFF.
- OS — CEILING MOUNTED PASSIVE INFRARED/ULTRASONIC OCCUPANCY SENSOR. (AUTOMATIC ON)
- VS — CEILING MOUNTED PASSIVE INFRARED/ULTRASONIC VACANCY SENSOR. (AUTOMATIC OFF)
- DS — CEILING MOUNTED CONTINUOUS DIMMING DAYLIGHT SENSOR WITH PRE-DEFINED FOOT-CANDLE TARGET SETPOINT (TSP). LOCATION SHALL BE FINALIZED AS PER FIELD CONDITION.
- WP — NORMALLY OPEN LOW VOLTAGE (LV) PUSH BUTTON, FLUSH MTD AT 4'-0" ABOVE GROUND AT EXTERIOR WALL FOR DOOR BELL. "WP" INDICATES WEATHER PROOF.
- SINGLE THREE WIRE GROUNDED RECEPTACLE, 20A, 250V, 2-POLE. (NEMA 6-20R). MOUNTED AS PER DETAIL #6 ON E703.
- FLOOR FLUSH DUPLEX DATA OUTLET WITH 2-'RJ45' JACKS EACH LABELED 'DATA' WITH CAT6 CABLE, EACH RUN BACK TO THE CORRESPONDING DATA RACK.
- FLOOR FLUSH DUPLEX THREE WIRE GROUNDED RECEPTACLE, 20A / 30A, 125V, 1-POLE. 'GFCI' DENOTES GROUND FAULT (CIRCUIT) INTERRUPTER , 'S' DENOTES SURGE SUPPRESSION.

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE INSTALLED CONCEALED IN THE AREA WHERE NEW WALLS AND HUNG CEILINGS ARE INSTALLED, UNLESS OTHERWISE NOTED. CONDUITS OR RACEWAY SHALL BE EXPOSED ON THE EXISTING WALLS AND PLASTER CEILINGS.
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.
3. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE AS INDICATED ON THE SPECIFICATION 16130–(3.04). UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIMENSIONS TO CENTERLINE OF BOX):
   A. RECEPTACLES (WALL MOUNTED) – 18" A.F.F. UOI
   B. COMMUNICATIONS OUTLETS – SAME HEIGHT AS RECEPTACLES
   C. LIGHTING SWITCHES AND CONTROLS – 48" A.F.F.
   D. LIGHTING FIXTURES (AREAS WITHOUT CEILINGS) – 9'–6" A.F.F. UOI.
   E. PANELBOARDS AND CABINETS – 78" TO TOP OF ENCLOSURE
4. FINAL LOCATION OF LIGHTING FIXTURES, SMOKE DETECTORS AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
5. MINIMUM RACEWAY SIZE SHALL BE 3/4". RACEWAYS SHALL BE RUN PARALLEL TO BUILDING STRUCTURAL LINES. RACEWAYS SHALL NOT BE RUN HORIZONTALLY BELOW 8'–0" IN PARTITIONS. ALL EMPTY RACEWAYS SHALL BE FURNISHED WITH A 200 LB. TEST NYLON DRAG LINE.
6. WHERE MULTIPLE SWITCHES AND RECEPTACLES ARE INDICATED AT THE SAME LOCATION, THEY SHALL BE MOUNTED BEHIND A COMMON FACEPLATE.
7. WHERE EQUIPMENT, LIGHTING FIXTURES AND WIRING DEVICES ARE SHOWN WITH CIRCUIT NUMBERS ONLY, THE MINIMUM BRANCH CIRCUITING REQUIREMENTS SHALL BE AS FOLLOWS: LIGHTING FIXTURES – 2#12 & 1#12G – 3/4" C.
   A. RECEPTACLES – 2#12 & 1#12G – 3/4" C.
   B. BRANCH CIRCUIT BREAKERS (120 VOLT) – 1P, 20A
   C. HOMERUNS TO PANELBOARDS SHALL CONTAIN NO MORE THAN (3) CIRCUITS.
   D. WHERE LIGHTING SWITCH INDICATIONS ARE NOT SHOWN, SWITCHES SHALL BE CONNECTED TO CONTROL ALL SWITCHED FIXTURES WITHIN THE CORRESPONDING SPACE.
8. WIRE SIZES SHALL BE INCREASED TO COMPENSATE FOR VOLTAGE DROP AS FOLLOWS: 120V AND 208V CIRCUITS LONGER THAN 100' SHALL UTILIZE MIN. #10 AWG.
9. NUMBER SHOWN AT LIGHTING FIXTURES, DEVICES AND EQUIPMENT INDICATES CIRCUIT NUMBER IN PANEL. PROVIDE WIRE AND CONDUIT TO INTERCONNECT THE AFOREMENTIONED AND ASSOCIATED SWITCHES AND CONTROL DEVICES WITH SAME CIRCUIT NUMBERS AND RUN TO PANEL VIA CIRCUIT HOMERUN SHOWN.
10. CONDUIT RUNS SHALL BE NEATLY INSTALLED. WHERE MULTIPLE RUNS FROM THE SAME PANEL ARE MADE, THE RUNS SHALL BE PARALLEL WITH EACH OTHER AND FASTENED WITH A COMMON SUPPORT, SPACED AND SECURED AT THE REQUIRED INTERVALS. BRANCHES SHALL TURN OFF TO THEIR OUTLETS IN AN ORGANIZED MANNER WITHOUT CROSSING EACH OTHER.
11. WIRING IN AIR PLENUM HUNG CEILINGS WHEN INDICATED TO BE INSTALLED WITHOUT CONDUIT OR EMT SHALL BE TEFLON JACKETED.
12. LIGHTING FIXTURES IN ACCESSIBLE CEILINGS SHALL BE FURNISHED WITH FLEXIBLE CONDUIT CONNECTIONS TO SEPARATELY MOUNTED JUNCTION BOXES. ONE JUNCTION BOX SHALL SERVE A MAXIMUM OF FOUR (4) FIXTURES. MAXIMUM LENGTH OF FLEXIBLE CONNECTION SHALL BE 6'–0".
13. PULL AND JUNCTION BOXES SHALL BE SURFACE MOUNTED TYPE IN UNFINISHED AREAS UNLESS OTHERWISE NOTED. LOCATE APPROXIMATELY WHERE INDICATED, ON WALLS, CEILINGS, BEAMS OR SUSPENDED FROM CEILINGS, TO SUIT CONDUIT ENTRANCE, TO AVOID INTERFERENCE WITH EQUIPMENT OF OTHER TRADES AND TO LEAVE COVERS READILY ACCESSIBLE.
14. PULL BOXES WHETHER SIZED OR NOT SHALL BE MODIFIED BY THIS CONTRACTOR TO MEET FIELD CONDITIONS AND CODE REQUIREMENTS. ADDITIONAL PULL BOXES, IF REQUIRED TO SATISFY FIELD CONDITIONS AND

SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH CHAPTER 17 AND THE APPLICABLE SECTIONS OF THE NEW YORK CITY BUILDING CODE (NYCBC) ARE LISTED IN THE FOLLOWING TABLES:
   - THE CONTRACTOR MUST NOTIFY THE AUTHORITY FOR SPECIAL INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES.
   - THE "AUTHORITY" SHALL BE RESPONSIBLE FOR THE FOLLOWING SPECIAL INSPECTIONS FIRE–RESISTANT PENETRATION AND JOINTS BC 1704.27
2. REQUIRED INSPECTIONS AND TESTS OF MATERIALS DESIGNATED FOR "SPECIAL INSPECTION" BY THE CONTRACTOR SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED ENGINEER RETAINED BY OR ON THE BEHALF OF THE CONTRACTOR WHO SHALL BE ACCEPTABLE TO THE ENGINEER WHO SUPERVISED THE PREPARATION OF THE PLANS.

GENERAL NOTES

CODE REQUIREMENTS. SHALL BE SUPPLIED AND INSTALLED BY THIS CONTRACTOR AT NO EXTRA COST.

15. PANELBOARDS LOCATED ON OTHER THAN MASONRY WALLS SHALL BE MOUNTED WITH MODULAR CHANNEL SUPPORTS SECURED TO THE BUILDING STRUCTURE.
16. CIRCUIT BREAKER HANDLE LOCKS SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS SERVING EMERGENCY LIGHTING, EXIT LIGHTING AND SECURITY EQUIPMENT.
17. ALL BRANCH CIRCUITS SHALL BE CLEARLY MARKED IN THE PANEL AS TO LOCATION AND PURPOSE.
18. GROUND FAULT INTERRUPTER (GFI) RECEPTACLES OR CIRCUIT BREAKERS SHALL BE PROVIDED FOR EQUIPMENT DISPENSING OR OTHERWISE IN CONTACT WITH LIQUIDS.
19. ALL NOTATIONS OF "NYCHALE" ARE INTENDED AS APPROXIMATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING THE EXACT LOCATIONS OF ALL EQUIPMENT AND CHECKING THE REQUIRED CLEARANCES.
20. EXISTING EQUIPMENT AFFECTED BY THE WORK OF THIS CONTRACT SHALL BE COMPLETELY IDENTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CONTRACT.
21. CONTRACTOR SHALL PROVIDE THERMAL OVERLOAD AND PROPER FUSE FOR THE EQUIPMENT AS PER MANUFACTURERS REQUIREMENTS.
22. SURVEY AND PLAN ENTIRE PROJECT PRIOR TO CONSTRUCTION. WHERE DRAWINGS AND FIELD CONDITIONS DIFFER, THE CONTRACTOR SHALL NOTIFY PROJECT OFFICER AND SUBMIT PROPOSED SOLUTION FOR ENGINEER'S APPROVAL PRIOR TO PERFORMING ANY WORK.
23. ELECTRICAL PENETRATIONS (CONDUITS, WIRING ETC.) THOUGHT WALL(S), PARTITION(S), AND/OR FLOOR CONSTRUCTION SHALL HAVE THE ANNULAR SPACE AROUND PENETRATION SEALED AND/OR FIRE STOPPED WITH UL APPROVED SYSTEM TO MATCH RATING OF ASSEMBLY. PATCH ALL DISTURBED SURFACES TO MATCH ADJACENT SURFACES.
24. THE CONTRACTOR SHALL COORDINATE WITH THE HVAC, P&D AND STRUCTURAL TRADES FOR EXACT LOCATIONS OF MOTORS AND EQUIPMENT, IN ORDER TO AVOID INTERFERENCE.
25. IN THE CHILLER ROOM, SYSTEM CONDUITS, SUCH AS FOR LIGHTING AND POWER FEEDERS, LOW VOLTAGE, FIRE SIGNAL, ETC., SHALL NOT BE RUN OVER CHILLERS.
26. NO CONDUIT SHALL BE RUN IN ANY FLOOR IN CONTACT WITH THE EARTH UNLESS OTHERWISE DIRECTED ON THE PLAN. IN SUCH AREAS, CONDUIT FOR MOTORS AND STARTERS SHALL BE RUN OVERHEAD, SUPPORTED AS REQUIRED.
27. WHERE RECESSED FIXTURES ARE INDICATED ON THESE PLANS AND WET PLASTER CEILING CONSTRUCTION IS USED, PLASTER FRAMES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. WITH OTHER TYPES OF HUNG CEILING CONSTRUCTION, LIGHTING FIXTURES SHALL BE APPROPRIATE TO MEET THE REQUIREMENTS OF THAT CEILING CONSTRUCTION.
28. OUTLETS, JUNCTION BOXES, OR SWITCHES SHALL NOT BE INSTALLED BACK–TO–BACK TO PREVENT SOUND TRANSMISSION BETWEEN SPACES.

CONDUIT FILL AND MAXIMUM DISTANCE FOR EACH CIRCUITS

Maximum run for each Circuit

	# of ckt in conduit	#12	#10	#8
115V - 10 Amps	1 ckt	94'	152'	227'
	2-3 ckt	75'	122'	182'
	4 ckt	66'	106'	159'
	5-10 ckt	47'	76'	114'
	10-15 ckt	-	68'	102'
	16-20 ckt	-	61'	91'
	20+ ckt	-	53'	79'
208V - 15 Amps	1 ckt	120'	192'	287'
	2-3 ckt	96'	154'	230'
	4 ckt	-	134'	201'
	5-10 ckt	-	96'	144'
	10-15 ckt	-	-	129'
	16-20 ckt	-	-	115'

Conduit fill (max # of circuits in conduit)

Conduit Size	#12	#10	#8
3/4"	5	3	2
1"	8	5	3
1.5"	20	12	7
2"	33	21	12
3"	-	-	32

DATA CABLES CONDUIT FILL 40% CHART

CONDUIT SIZE	MAX # OF DATA CABLES IN CONDUIT
0.75"	3
1.00"	6
1.25"	10
1.50"	15
2.00"	27
2.50"	42

PULL BOX SIZES SHALL BE PROPOTIONAL TO THE CONDUIT SIZES AS PER CODE

NOTES:

1. CONTRACTOR SHOULD USE ABOVE CHART FOR RIGID CONDUIT.
2. THE MAXIMUM #OF CKTS SHALL BE RESTRICTED BY THE LARGER WIRE SIZE, WHEN MIXING DIFFERENT SIZE OF WIRES INSIDE THE SAME CONDUIT.
3. FOR #8 WIRING PROVIDE CABLE REDUCER TO CONNECT TO WIRING DEVICES.

ABBREVIATIONS

A	AMPERE	MCC	MOTOR CONTROL CENTER
AC	ALTERNATING CURRENT	MECH	MECHANICAL
AF	FUSE RATING IN AMPS	MER	MECHANICAL EQUIPMENT ROOM
AFF	ABOVE FINISHED FLOOR	MIC	MICROPHONE
ARCH	ARCHITECTURAL	MLO	MAIN LUG ONLY
AS	SWITCH RATING IN AMPS	MTD	MOUNTED
ATS	AUTOMATIC TRANSFER SWITCH	N	NEUTRAL
A/C	AIR CONDITIONING	N.C.	NORMALLY CLOSED
BG	BREAK GLASS	N.O.	NORMALLY OPEN
C	CONDUIT	P	POLE(S)
CB	CIRCUIT BREAKER	PB	PULL BOX
CLG	CEILING	PNL	PANEL
CKT(S)	CIRCUIT(S)	POS	POINT OF SALE
DWG	DRAWING	PP	POWER PANEL
E	EXISITNG TO REMAIN	PWR	POWER
ER	EXISITNG TO BE REMOVED	R	EXISTING RO BE REMOVED
ERR	EXISITNG TO BE RELOCATED	RL	RELOCATED DEVICE
EC	EMPTY CONDUIT	RGC	RIGID GALVANIZED CONDUIT
EMR	ELEVATOR MECHANICAL ROOM	SECT	SECTION
EXH	EXHAUST	SP	SPARE
FL	FLOOR	SPR	SPARE
G	GUARD	STD	STANDARD
GND	GROUND	SUR	SURFACE
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
IG	ISOLATED GROUND	SWBD	SWITCHBOARD
JB	JUNCTION BOX	TEL	TELEPHONE
KVA	KILOVOLT AMPERE	TV	TELEVISION
KW	KILOWATT	TYP	TYPICAL
KWH	KILOWATT HOUR	UOI	UNLESS OTHERWISE INDICATED
LP	LIGHTING PANEL	V	VOLT
LS	LOUDSPEAKER	W	WATT
LTG	LIGHTING	WP	WEATHER PROOF

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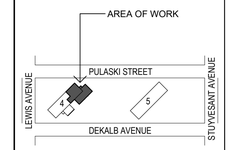
PROGRAM UNIT:
PROJECT MANAGEMENT TEAM - 3

BY DATE	Rev. No.	SUBMISSION

Development:
ROOSEVELT I HOUSES
Building Address:
360 PULASKI STREET
Building No: 4 ORACLE No: 11963
Borough of: BROOKLYN



KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
ELECTRICAL GENERAL NOTES, SYMBOLS LIST & ABBREVIATIONS

Seal & Signature:

Drawn By:	JOSHUA CHUKWUMA
Checked By:	ALFRED AZER, P.E.
Date:	08-25-21
Scale:	AS NOTED
Drawing No.:	E001.00
Sheet:	32 OF

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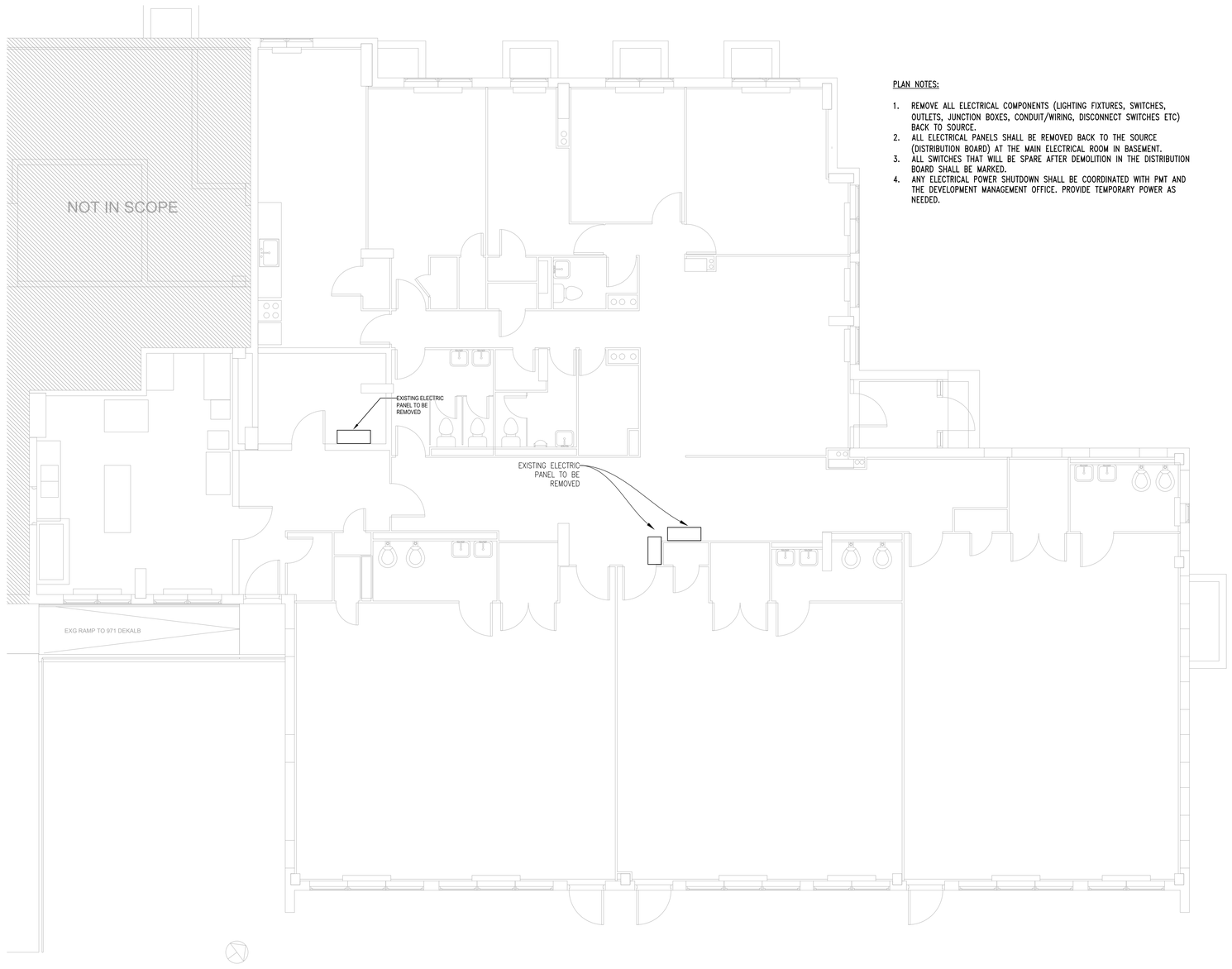

PLAN NOTES:

1. REMOVE ALL ELECTRICAL COMPONENTS (LIGHTING FIXTURES, SWITCHES, OUTLETS, JUNCTION BOXES, CONDUIT/WIRING, DISCONNECT SWITCHES ETC) BACK TO SOURCE.
2. ALL ELECTRICAL PANELS SHALL BE REMOVED BACK TO THE SOURCE (DISTRIBUTION BOARD) AT THE MAIN ELECTRICAL ROOM IN BASEMENT.
3. ALL SWITCHES THAT WILL BE SPARE AFTER DEMOLITION IN THE DISTRIBUTION BOARD SHALL BE MARKED.
4. ANY ELECTRICAL POWER SHUTDOWN SHALL BE COORDINATED WITH PWT AND THE DEVELOPMENT MANAGEMENT OFFICE. PROVIDE TEMPORARY POWER AS NEEDED.

1 / E061 ELECTRICAL DEMOLITION PLAN - 360 PULASKI

SCALE: 3/16"=1'-0"

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Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 08-25-21
Scale: AS NOTED
Drawing No.: E061.00
Sheet: 46 OF

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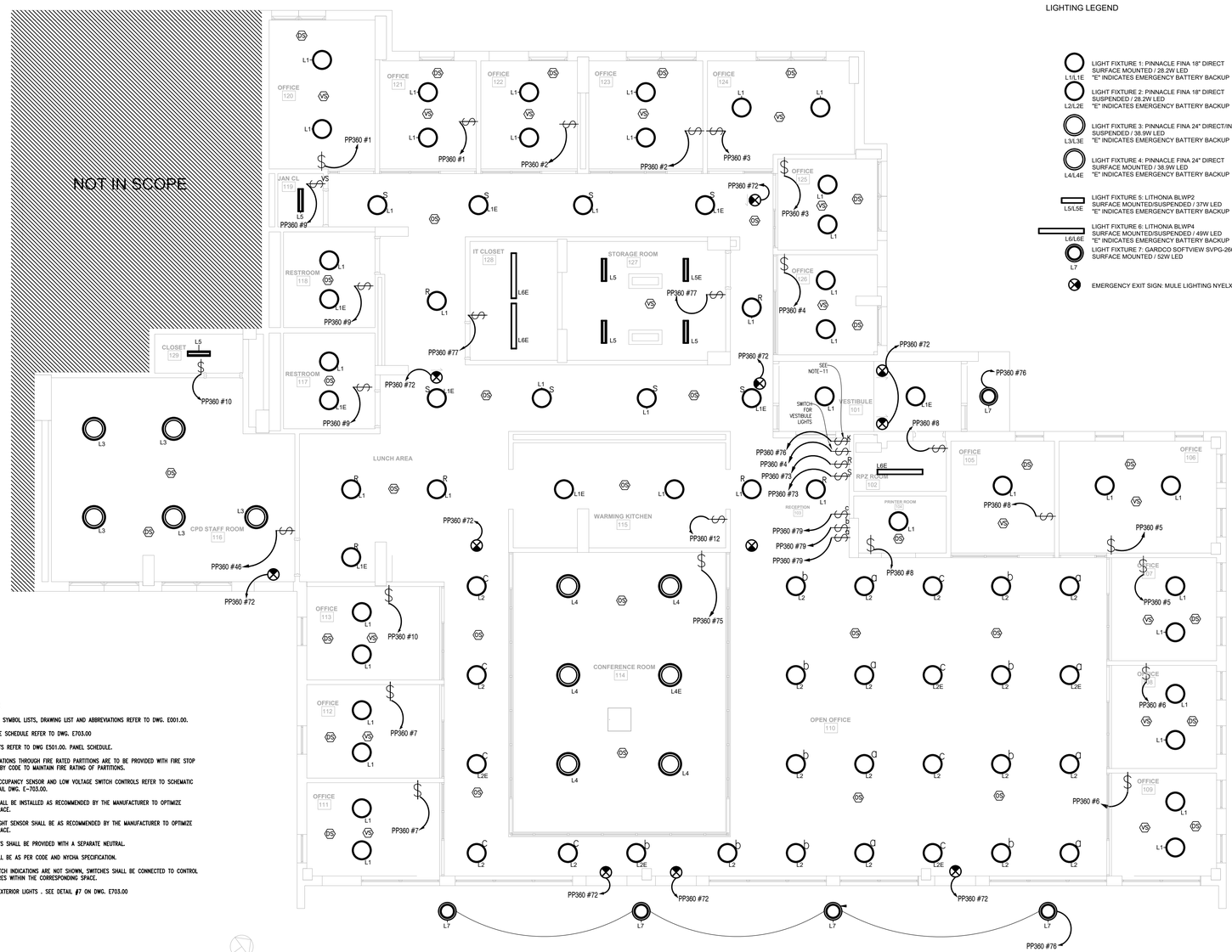

NEW WORK NOTES:

1. FOR GENERAL NOTES, SYMBOL LISTS, DRAWING LIST AND ABBREVIATIONS REFER TO DWG. E001.00.
2. FOR LIGHTING FIXTURE SCHEDULE REFER TO DWG. E703.00
3. FOR LIGHTING CIRCUITS REFER TO DWG E501.00. PANEL SCHEDULE.
4. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS ARE TO BE PROVIDED WITH FIRE STOP SEALS AS REQUIRED BY CODE TO MAINTAIN FIRE RATING OF PARTITIONS.
5. FOR ALL VACANCY/OCCUPANCY SENSOR AND LOW VOLTAGE SWITCH CONTROLS REFER TO SCHEMATIC WIRING DIAGRAM DETAIL DWG. E-703.00.
6. VACANCY SENSOR SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER TO OPTIMIZE COVERAGE IN THE SPACE.
7. LOCATION OF DAY-LIGHT SENSOR SHALL BE AS RECOMMENDED BY THE MANUFACTURER TO OPTIMIZE COVERAGE IN THE SPACE.
8. ALL LIGHTING CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL.
9. ALL GROUNDING SHALL BE AS PER CODE AND NYCHA SPECIFICATION.
10. WHERE LIGHTING SWITCH INDICATIONS ARE NOT SHOWN, SWITCHES SHALL BE CONNECTED TO CONTROL ALL SWITCHED FIXTURES WITHIN THE CORRESPONDING SPACE.
11. KEY SWITCHED FOR EXTERIOR LIGHTS . SEE DETAIL #7 ON DWG. E703.00

1 / E101 ELECTRICAL LIGHTING PLAN - 360 PULASKI
SCALE: 3/16"=1'-0"

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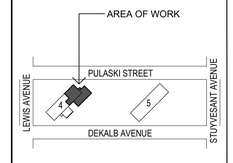

KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
ELECTRICAL LIGHTING PLAN – 360 PULASKI

Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 08-25-21
Scale: AS NOTED
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Sheet: OF

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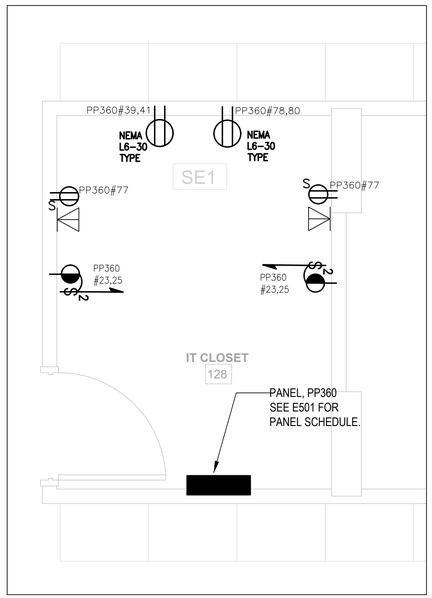
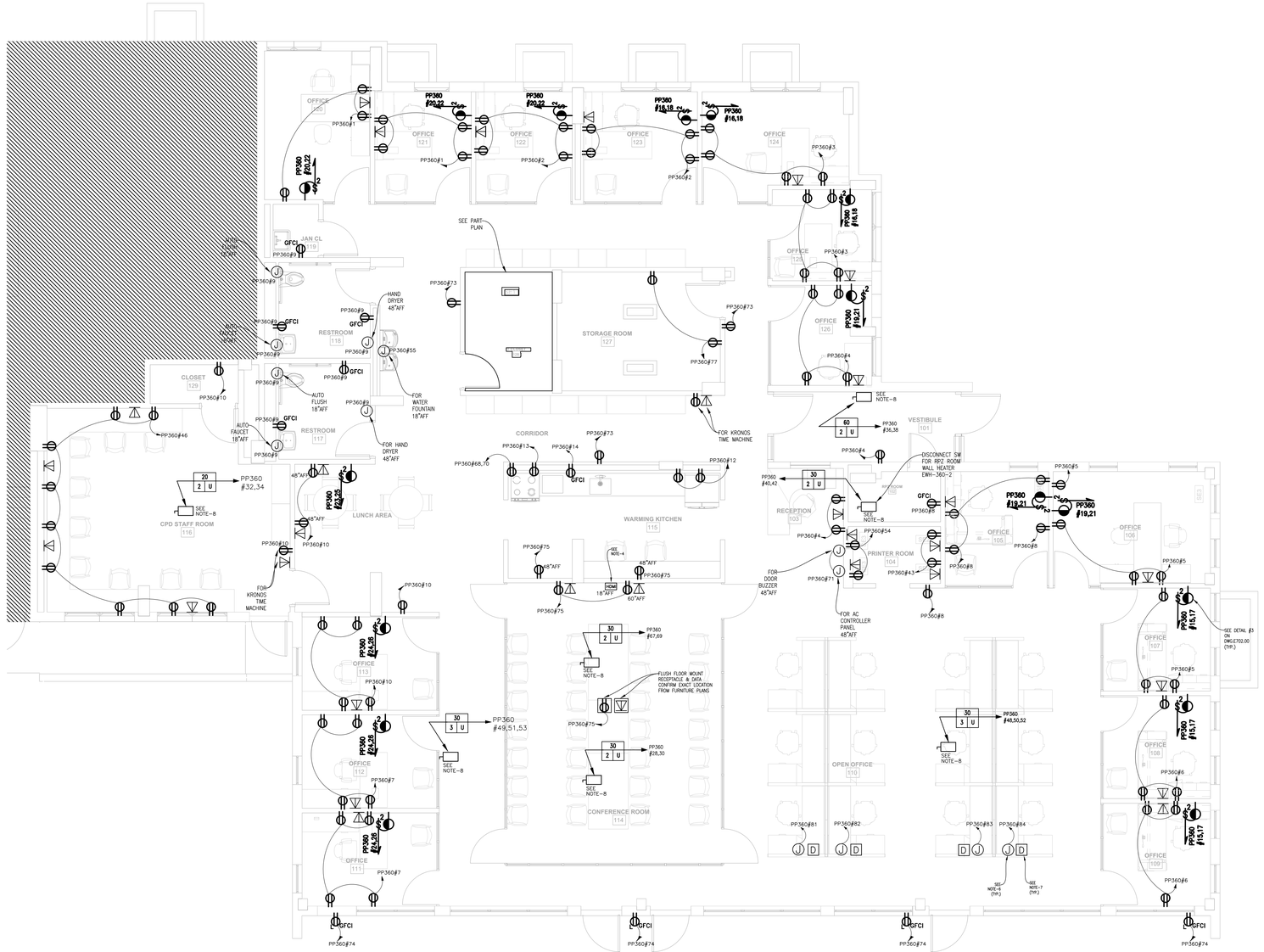


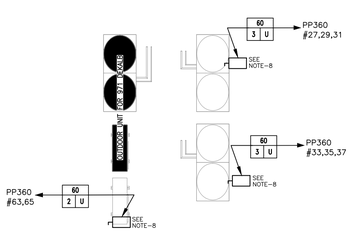
2 / E201 IT CLOSET 128 PART PLAN
SCALE: 1/2"=1'-0"

NEW WORK NOTES:

1. FOR ELECTRICAL/POWER GENERAL NOTES, DEMOLITION NOTES, SYMBOLS AND ABBREVIATIONS REFER TO DWG. E001.00
2. REFER TO DRAWING E501.00 FOR PANEL SCHEDULE. SIZE OF THE BRANCH WIRING SHALL BE SELECTED BASED ON THE BRANCH CIRCUIT WIRE SIZE CHART ON E001.00 TO COMPENSATE FOR VOLTAGE DROP & DERATING FACTOR. CONDUIT SIZE/RUN/FILL SHALL BE SELECTED BASED ON THE CONDUIT CHARTS ON DWG. E001.00
3. PATCH AND PAINT ALL AFFECTED AREA AND CONDUITS/HARDWARE TO MATCH ADJACENT.
4. TERMINATE AND CONNECT THIS HDMI OUTLET TO THE SMART BOARD HDMI SOCKET.
5. CONTRACTOR SHALL CHECK EQUIPMENT MANUALS TO VERIFY THE MANUFACTURER OUTLETS REQUIREMENTS AND TYPE
6. FLOOR FLUSH MOUNTED JUNCTION BOX FOR ELECTRICAL WIRES TO PROVIDE POWER THROUGH THE FURNITURE TRACKS FOR THE FURNITURE OUTLETS. CONFIRM EXACT LOCATION FROM FURNITURE PLANS
7. FLOOR FLUSH MOUNTED PULL BOX FOR DATA CABLES. REFER TO CONDUIT FILL CHART ON DWG. E001 FOR LOW VOLTAGE CONDUIT FILL & BOX SIZES. PROVIDE PULL STRING FROM THE PULL BOX BACK TO THE IT CLOSET. CONFIRM EXACT LOCATION FROM FURNITURE PLANS
8. FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT DISCONNECT SWITCHES REFER TO MECHANICAL DRAWINGS.
9. COORDINATE WITH THE DATA AND IT CONTRACTOR FOR THE DATA CABLES RUN.



1 / E201 ELECTRICAL POWER & DATA PLAN - 360 PULASKI
SCALE: 3/16"=1'-0"



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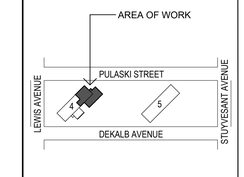


KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
ELECTRICAL POWER & DATA PLAN – 360 PULASKI

Seal & Signature:

Drawn By:	JOSHUA CHUKWUMA
Checked By:	ALFRED AZER, P.E.
Date:	08-25-21
Scale:	AS NOTED
Drawing No.:	E201.00
Sheet:	46 OF

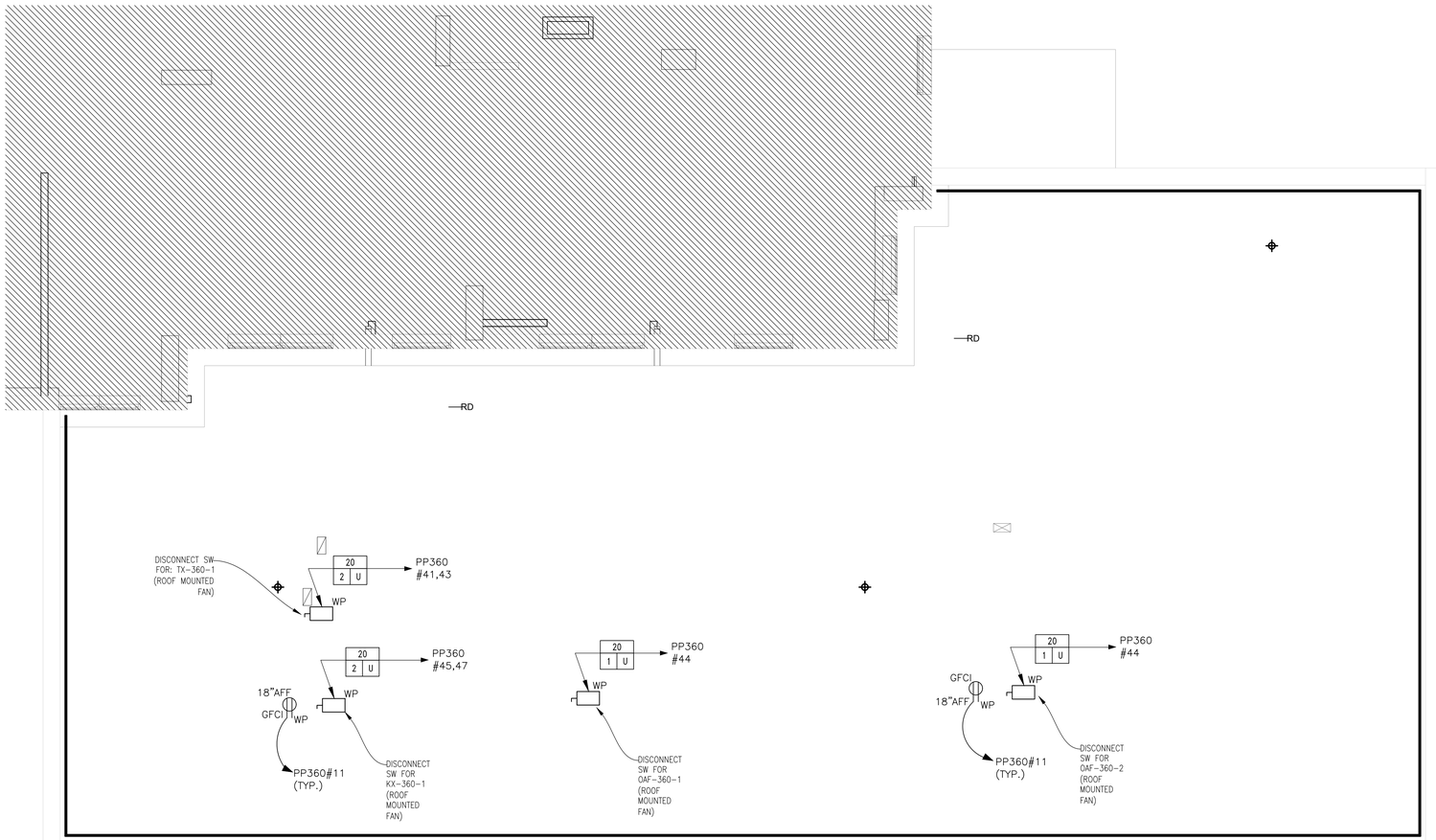
Orient and Affix DOB BSCAN Sticker Here

NEW WORK NOTES:

1. FOR ELECTRICAL/POWER GENERAL NOTES, DEMOLITION NOTES, SYMBOLS AND ABBREVIATIONS REFER TO DWG. E001.00

2. REFER TO RISER DIAGRAM ON DRAWING E501.00 FOR NEW AND EXISTING PANELS.

3. REFER TO DRAWING E501.00 FOR PANEL SCHEDULE. SIZE OF THE BRANCH WIRING SHALL BE SELECTED BASED ON THE BRANCH CIRCUIT WIRE SIZE CHART ON E001.00 TO COMPENSATE FOR VOLTAGE DROP & DERATING FACTOR. CONDUIT SIZE SHALL BE SELECTED BASED ON THE CONDUIT FILL CHART ON DRAWING E001.00.



1 / E202 ELECTRICAL ROOF PLAN - 360 PULASKI
SCALE: 1/4"=1'-0"

CAPITAL PROJECTS DIVISION
DESIGN DEPARTMENT
TEL. 212.306.3000 FAX 212.306.5160
24-02 49TH Avenue
Long Island City, New York 11101

PROGRAM UNIT:
PROJECT MANAGEMENT TEAM - 3

BY / DATE	Rev. No.	SUBMISSION

Development:
ROOSEVELT I HOUSES
Building Address:
360 PULASKI STREET
Building No: 4 ORACLE No: 11963
Borough of: BROOKLYN

KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
ELECTRICAL ROOF PLAN - 360 PULASKI

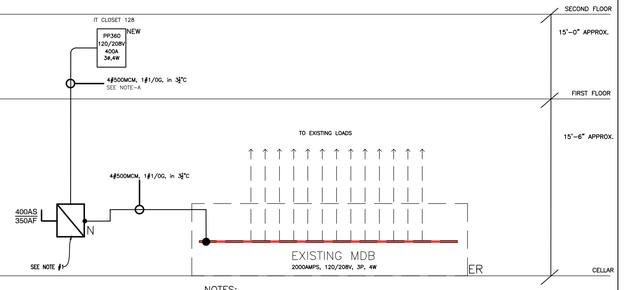
Seal & Signature:

Drawn By:	JOSHHUA CHUKWUMA
Checked By:	ALFRED AZER, P.E.
Date:	08-25-21
Scale:	AS NOTED

Drawing No.:
E-202.00

Sheet: 60 OF

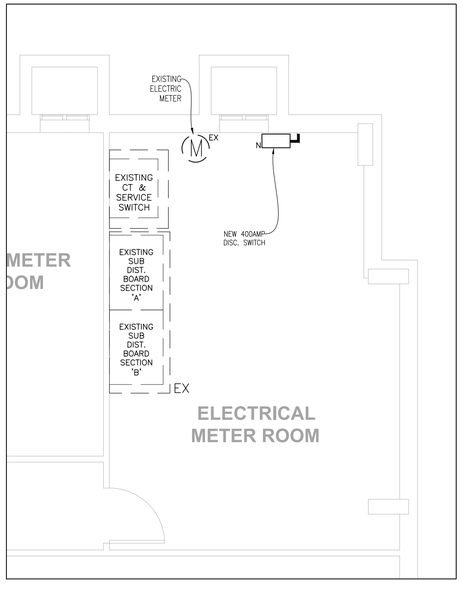
Orient and Affix DOB BSCAN Sticker Here



NOTES:
1. TAP THE EXISTING BUS OF THE MAIN DISTRIBUTION BOARD AND INSTALL A 400A SWITCH WITHIN 10FT OF THE TAP AS PER NEC CODE.
2. ALL RISER DIAGRAMS SHOWN ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS. PROVIDE PULL/JUNCTION BOX AS REQUIRED
3. CONTRACTOR SHALL PROVIDE FIRE STOP AS SPECIFIED FOR ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS.
4. CONTRACTOR SHALL NOT RUN CONDUIT/WIRING IN STAIRWELLS. ALL WORK TO COMPLY WITH NATIONAL ELECTRIC CODE.
5. PATCH AND PAINT AS REQUIRED TO MATCH ADJACENT.

OTHER NOTES:
A. THE FEEDER SIZING IS ASSUMING THE SHORTEST PATH FROM THE SWITCHBOARD ROOM TO THE PANEL. CONTRACTOR TO VERIFY THE ACTUAL DISTANCE AND FOLLOW THE FEEDER CONDUCTOR SIZING TABLE ON THIS DRAWINGS TO ENSURE THE MAX VOLTAGE DROP AS PER CODE. SUBMIT THE FEEDER ROUTING WITH DISTANCE FOR ENGINEERS APPROVAL.
B. TAB WITHIN 10' MAX. COORDINATE SHUTDOWN WITH SCHOOL.

1 / E501 PARTIAL POWER RISER DIAGRAM
SCALE: N.T.S.



1 / E203 ELECTRIC ROOM PART - PLAN
SCALE: 1/4

PANEL: POWER PANEL 360 (PP360) — VOLTAGE: 120/208V, 3PH, 4W+1G, 60HZ, **400A** MLO, 42000 AIC — LOCATION: IT CLOSET 128, MOUNTING: TWO SECTIONS SURFACE MOUNTED

DESCRIPTION	POWER KVA/hp	BREAKER TRIP	BREAKER POLE	WIRE/ CONDUIT SIZE	CURRENT	CKT #	ØA	ØB	ØC	CKT #	CURRENT	WIRE/ CONDUIT SIZE	BREAKER TRIP	BREAKER POLE	POWER KVA/hp	DESCRIPTION
OFFICE 120 & 121	–	20	1	2#12, 1#12G, ¾"C	12.0	1	12.0			2	12.0	2#12, 1#12G, ¾"C	20	1		OFFICE 122 & 123
OFFICE 124 & 125	–	20	1	2#12, 1#12G, ¾"C	12.0	3		12.0		4	12.0	2#12, 1#12G, ¾"C	20	1		OFFICE 126, VESTIBULE 101 & RECEPTION 103
OFFICE 107 & 106	–	20	1	2#12, 1#12G, ¾"C	13.0	5			13.0	6	13.0	2#12, 1#12G, ¾"C	20	1		OFFICE 108 & 109
OFFICE 111 & 112	–	20	1	2#12, 1#12G, ¾"C	13.0	7	13.0			8	13.0	2#12, 1#12G, ¾"C	20	1	–	PRINTER ROOM 104 LIGHT(S), OFFICE 105 & RPZ ROOM 102
RESTROOM 117, RESTROOM 118 & JAN. CL 119	–	20	1	2#12, 1#12G, ¾"C	13.0	9		13.0		10	13.0	2#12, 1#12G, ¾"C	20	1		OFFICE 113, CLOSET 129 & TWO LUNCH AREA RECEPTACLE
ROOF RECEPTACLES	–	20	1	2#12, 1#12G, ¾"C	13.0	11			13.0	12	12.0	2#12, 1#12G, ¾"C	20	1	–	WARMING KITCHEN 115 REF. RECEPTACLES & LIGHTS
OVER RANGE MICROWAVE OVEN	–	20	1	2#12, 1#12G, ¾"C	14.5	13	14.5	13.3		14	13.3	2#12, 1#12G, ¾"C	20	1	–	WARMING KITCHEN 115 COUNTER TOP MICROWAVE
AC-360-15, AC-360-14 & AC-360-13 (INDOOR UNITS)	–	20	2	3#12, 1#12G, ¾"C	1.5	15		1.5	1.5	16	1.5	3#12, 1#12G, ¾"C	20	2	–	AC-360-09, AC-360-08 & AC 360-07 (INDOOR UNITS)
						17			1.5	1.5	18					
AC-360-12, AC-360-11 & AC-360-10 (INDOOR UNITS)	–	20	2	3#12, 1#12G, ¾"C	1.5	19	1.5	1.5		20	1.5	3#12, 1#12G, ¾"C	20	2	–	AC-360-06, AC-360-05 & AC 360-04 (INDOOR UNITS)
						21		1.5	1.5	22						
AC-360-IT-01, AC-360-IT-02 & AC-360-01B (INDOOR UNITS)	–	20	2	3#12, 1#12G, ¾"C	1.5	23			1.5	1.5	24	1.5	20	2	–	AC-360-16, AC-360-17 & AC 360-18 (INDOOR UNITS)
						25	1.5	1.5			26					
ACCU-360-1 (OUT DOOR UNIT)	–	50	3	4#6, 1#8G, 1¼"C	47	27			47.0	2.7	28	2.7	3#12, 1#12G, ¾"C	20	2	–	AC-360-02 (CEILING MOUNT FCU)
						29					30					
						31	47.0	4.2			32	4.2				
ACCU-360-2 (OUT DOOR UNIT)	–	50	3	4#6, 1#8G, 1¼"C	47	33			47.0	4.2	34					AC-360-03 (CEILING MOUNT FCU)
						35					36	38.9	3#8, 1#10G, 1"C	40	2	–
						37	47.0	39.0			38					EWH-360-1 (WALL HEATER)
IT CLOSET-128 DEDICATED 30AMP RECEPTACLE	–	30	2	3#10, 1#10G, ¾"C	20	39			20.0	14.8	40	14.8	3#12, 1#12G, ¾"C	20	2	–	EWH-360-2 (RPZ ROOM WALL HEATER)
						41					42					
PRINTER SE2 RECEPTACLES	–	30	1	2#10, 1#10G, ¾"C	10	43	10.0	5.8			44	5.8	2#12, 1#12G, ¾"C	20	1	–	OAF-360-01 & OAF-360-02 (ROOF MOUNT FAN)
KX-360-1 (ROOF MOUNT FAN)	–	20	2	3#12, 1#12G, ¾"C	2.8	45			2.8	15.0	46	15	2#12, 1#12G, ¾"C	20	1	–	CPD STAFF ROOM 116
						47					48					
EDH-360-1 (DUCT HEATER)	–	20	3	4#12, 1#12G, ¾"C	11.86	49	11.9	26.5			50	26.48	4#10, 1#10G, ¾"C	30	3	–	EDH-360-2 (DUCT HEATER)
						51			11.9	26.5	52					
						53					54	24	2#10, 1#10G, ¾"C	30	1	–	PRINTER SE3 RECEPTACLES
WATER FOUNTAIN	–	20	1	2#12, 1#12G, ¾"C	6	55	6.0	13.0			56	4	2#12, 1#12G, ¾"C	20	1	–	RECEPTACLE FOR FIRE ALARM PRINTER
SURGE PROTECTION DEVICE	–	30	3	–	–	57			0.0	0.0	58					
						59					60	–	–	20	3	–	WATT METER
						61	0.0	0.0			62					
ACCU-360-IT (OUT DOOR UNIT)	–	50	2	3#6, 1#8G, 1¼"C	44	63			44.0	2.8	64	2.8	3#12, 1#12G, ¾"C	20	2	–	TX-360-1 (ROOF MOUNT FAN)
						65					66					
AC-360-01A (CEILING MOUNT FCU)	–	20	2	3#12, 1#12G, ¾"C	8.2	67	8.2	30.0			68	30	3#8, 1#10G, 1"C	40	2	–	ELECTRIC COOKER/OVEN
						69			8.2	30.0	70					
AC CONTROLLER PANEL & DOOR BUZZER	–	20	1	2#12, 1#12G, ¾"C	1	71				1.0	0.3	72	0.33	2#12, 1#12G, ¾"C	20	1	–	EXIT LIGHTS
CORRIDOR LIGHTS & RECEPTACLES	–	20	1	2#12, 1#12G, ¾"C	5.0	73	5.0	5.0			74	5	2#12, 1#12G, ¾"C	20	1	–	EXTERIOR RECEPTACLES
CONFERENCE ROOM 114 & TWO WARMING KITCHEN 115 RECEPTACLE	–	20	1	2#12, 1#12G, ¾"C	12	75		12.0	1.0		76	1	2#12, 1#12G, ¾"C	20	1	–	EXTERIOR LIGHTS
IT CLOSET 128 & STORAGE ROOM 127	–	20	1	2#12, 1#12G, ¾"C	5.0	77				5.0	20.0	78	20	3#10, 1#10G, ¾"C	30	2	–	IT CLOSET-128 DEDICATED 30AMP RECEPTACLE
OPEN OFFICE 110 LIGHTS	–	20	1	2#12, 1#12G, ¾"C	5.0	79	5.0	20.0				80						
OPEN OFFICE 110 JUNCTION BOX FOR FURNITURE POWER	–	20	1	2#12, 1#12G, ¾"C	12.0	81		12.0	12.0			82	12.0	2#12, 1#12G, ¾"C	20	1	–	OPEN OFFICE 110 JUNCTION BOX FOR FURNITURE POWER
OPEN OFFICE 110 JUNCTION BOX FOR FURNITURE POWER	–	20	1	2#12, 1#12G, ¾"C	12.0	83			12.0	12.0	84	12.0	2#12, 1#12G, ¾"C	20	1	–	OPEN OFFICE 110 JUNCTION BOX FOR FURNITURE POWER
	TOTAL AMPS PER PHASE						367.3 A		369.8 A		389.8 A						
	TOTAL kVA PER PHASE						42.2kVA		42.5kVA		44.8kVA						
	TOTAL CONNECTED LOAD						129.6 kVA										
	AVERAGE CURRENT PER PHASE						375.6 A										

PANEL SCHEDULE NOTES:

1. ALL PANEL CIRCUIT BREAKERS SHALL BE HACR TYPE.
2. CONTRACTOR TO LABEL ALL PANELS AND TAG WIRES. REFER SPEC SECTION.
3. CONTRACTOR TO AFFIX/UPDATE PANEL DIRECTORY. REFER SPEC SECTION.
4. USE CABLE REDUCING LUGS TO CONNECT UPSIZED FEEDER TO THE PANEL IF NEEDED. IF NOT FEASIBLE, CONTRACTOR TO INSTALL NEXT SIZE PANEL AND LABEL THE PANEL TO MATCH THE OVERCURRENT PROTECTION DEVICE INSTALLED UPSTREAM.

CAPITAL PROJECTS DIVISION
NEW YORK CITY HOUSING AUTHORITY
DESIGN DEPARTMENT
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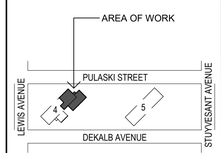
Long Island City, New York 11101

PROGRAM UNIT:
PROJECT MANAGEMENT TEAM - 3

BY / DATE	Rev. No.	SUBMISSION

Development:
ROOSEVELT I HOUSES
Building Address:
360 PULASKI STREET
Building No: 4 ORACLE No: 11963
Borough of: BROOKLYN



KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
ELECTRICAL RISER, PANEL SCHEDULES & ELECT.ROOM PART PLAN - 360 PULASKI

Seal & Signature:

Drawn By:	JOSHUA CHUKWUMA
Checked By:	ALFRED AZER, P.E.
Date:	08-25-21
Scale:	AS NOTED
Drawing No.:	E501.00
Sheet:	63 OF

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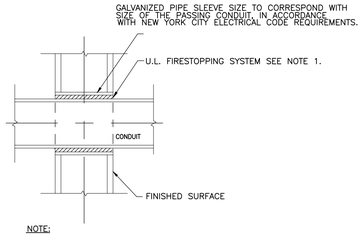
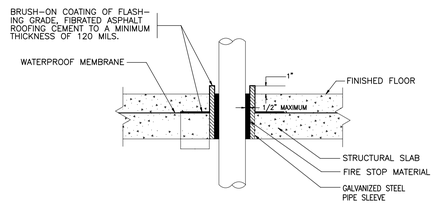


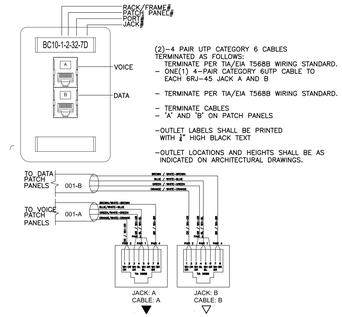
NOTE:

1. FIRESTOP ALL CONDUIT PENETRATIONS IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATION SECTION 07270, FOR THE FIRERATED RESPECTIVE WALL CONSTRUCTION, CONDUIT SIZE AND CONDUIT MATERIAL.
2. THE PENETRATIONS THROUGH FIRERATED WALL, FLOOR, OR CEILING SLAB SHALL BE SEALED. THE SEAL SHALL MAINTAIN ORIGINAL INTEGRITY OF PENETRATED FIRE RATING.

1 TYPICAL DETAIL OF FIRE RATED WALL PENETRATION
N.T.S.



2 WATERPROOF WALL/SLAB PENETRATION
N.T.S.



3 TYPICAL WALL MOUNTED 2-PACK DATA OUTLET DETAIL
N.T.S.

4 CONDUIT PENETRATION FOUNDATION WALL
N.T.S.

NOTES:

1. THIS IS A TYPICAL FURNITURE DETAIL AND IS INTENDED TO INDICATE GENERAL INSTALLATION REQUIREMENTS ONLY. REFER TO ARCHITECTURAL DRAWINGS & MANUFACTURER'S INSTALLATION.
2. WALL PLATE FINISHES PER ARCHITECT.

5 FURNITURE SYSTEM WALL OR COLUMN ENTRY DETAIL
N.T.S.

6 TYPICAL DETAIL OF WALL, CEILING, AND FLOOR PENETRATION.
N.T.S.

CAPITAL PROJECTS DIVISION
NEW YORK CITY HOUSING AUTHORITY
DESIGN DEPARTMENT
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24-02 49TH Avenue
Long Island City, New York 11101

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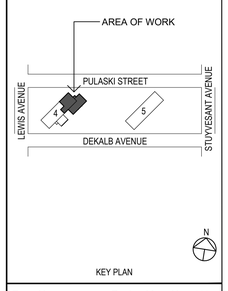

KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
ELECTRICAL TYPICAL DETAILS-1

Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 08-25-21
Scale: AS NOTED
Drawing No.:
E701.00
Sheet: 64 OF

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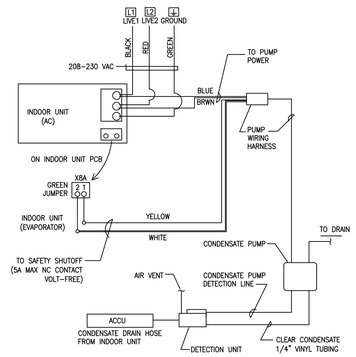
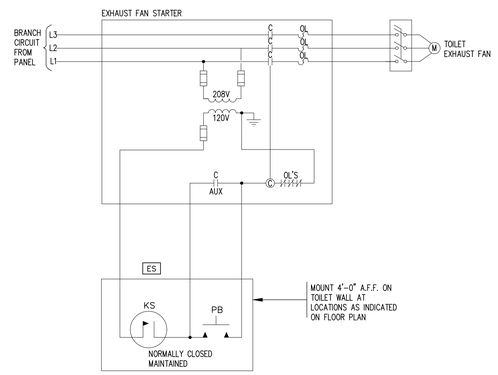
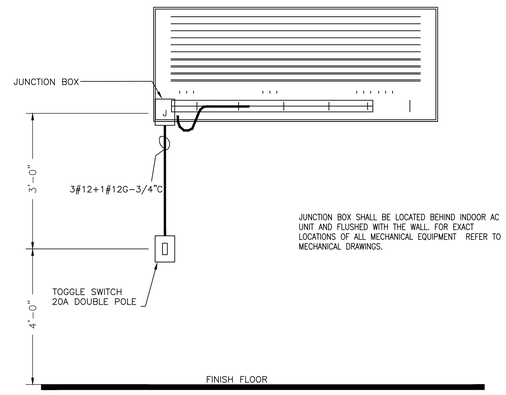


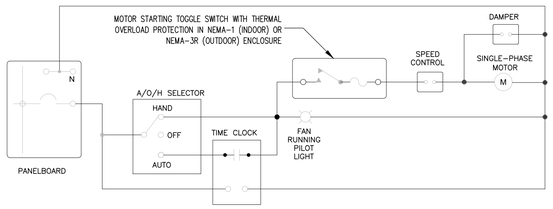
1 WALL MOUNTED AC-UNITS CONDENSATE PUMP WIRING DIAGRAM
N.T.S.



2 TOILET EXHAUST FAN SCHEMATIC WIRING DIAGRAM
N.T.S.



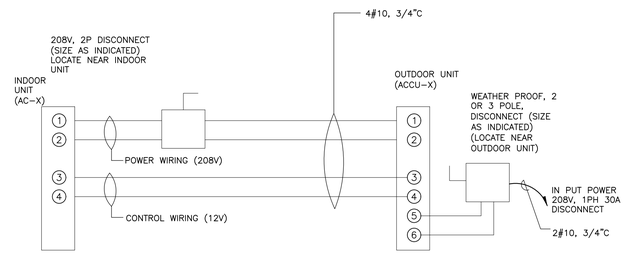
3 AC INDOOR WALL ELEVATION
N.T.S.



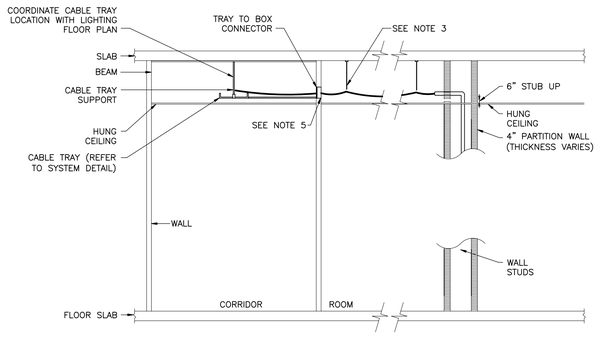
NOTES:

1. THE CONTRACTOR SHALL PROVIDE WIRING DIAGRAM FOR TOILET EXHAUST FAN AS A SHOP DRAWING FOR REVIEW.

4 SINGLE–PHASE FRACTIONAL HORSEPOWER MOTOR TYPICAL WIRING DIAGRAM
N.T.S



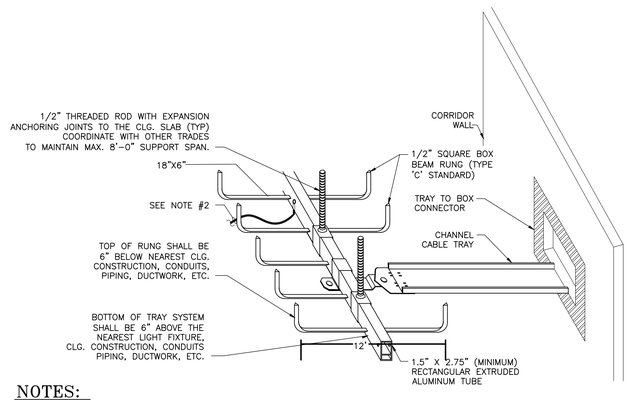
5 TYPICAL SPLIT A/C WIRING SYSTEM DAIGRAM
N.T.S.



NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL A CABLE TRAY ABOVE HUNG CEILING CORRIDORS IN THE NEW BUILDING TO ACCOMMODATE THE FOLLOWING LOW VOLTAGE SYSTEMS: TELEPHONE, LAN, PA/CLOCK, AUXILIARY ALARM BELL, VIDEO SURVEILLANCE AND INTRUSION ALARM SYSTEM. ALL CABLES SHALL BE BUNDLED AND CLEARLY LABELED.
2. CONTRACTOR SHALL MOUNT CABLE TRAY BELOW THE BEAMS CROSSING THE CORRIDOR. EXACT LOCATION TO BE DETERMINED BY CONTRACTOR IN THE FIELD. PROVIDE 2' X 2' ACCESS DOORS AS INDICATED ON ARCHITECTURAL DRAWINGS.
3. WHEN RUNNING CABLES THROUGH DROPPED CEILING SPACE, THE CONTRACTOR SHALL ASSURE THAT CABLES ARE PROPERLY SUPPORTED FROM THE SLAB AND CABLES DO NOT TOUCH THE HUNG CEILING.
4. LOW VOLTAGE CABLES PASSING THROUGH CABLE TRAYS EXPOSED SHALL BE RATED CMP AND SHALL BE RATED AS SUITABLE FOR USE IN AIR HANDLING PLENUMS; HAVING FEATURES SUCH AS LOW SMOKE CHARACTERISTICS, ETC., AS PER NYC ELECTRICAL CODE BULLETIN 126.
5. IN AREAS WITH NO HUNG CEILING, EXTEND CONDUIT TO CABLE TRAY (TYPICAL FOR ALL LOW VOLTAGE CABLES).

6 SECTIONAL VIEW CORRIDOR FOR CABLE TRAY LOCATION AND LOW VOLTAGE WIRING
N.T.S.



NOTES:

1. CONTRACTOR SHALL PROVIDE A COMPLETE MONO–SYSTEMS, INC. BOTTOM MOUNTED RUNG MONO–TRAY SYSTEM. THE TRAY SYSTEM SHALL BE 12" WIDE WITH A 6" LOADING DEPTH (UON) AND SUPPORT RUNGS SPACED AT 9" ON CENTER. THE SYSTEM SHALL BE CONSTRUCTED FROM EXTRUDED ALUMINUM AND CAPABLE OF SUPPORTING A MINIMUM OF 100 LBS/FT WITH 8'–0" ON CENTER SUPPORT SPANS. CONTRACTOR SHALL PROVIDE ALL REQUIRED ELBOWS, TEE SECTIONS CONNECTORS CLAMPS AND OTHER MOUNTING ACCESSORIES.
2. PROVIDE A SINGLE #6 AWG GROUND CONDUCTOR WITH GREEN COLORED INSULATION IN 3/4" CONDUIT AND CONNECT TO THE COPPER GROUND BUS IN WATER METER ROOM OR TELECOM RM OR CLOSET AS REQUIRED.
3. PROVIDE BONDING JUMPERS AND CLAMPS TO ENSURE THE CONTINUITY OF THE GROUNDING PATH.
4. ALL PENETRATIONS TO FIRE RATED WALLS SHALL BE FIRE–PROOFED WITH APPROVED MATERIAL SO AS TO RESTORE THE FIRE RATING OF THE WALLS.

7 CABLE TRAY SYSTEM DETAIL
N.T.S.

CAPITAL PROJECTS DIVISION
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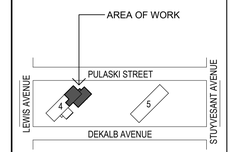
PROGRAM UNIT:
PROJECT MANAGEMENT TEAM - 3

BY DATE	Rev. No.	SUBMISSION

Development:
ROOSEVELT I HOUSES
Building Address:
360 PULASKI STREET
Building No: 4 ORACLE No: 11963
Borough of: BROOKLYN



KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

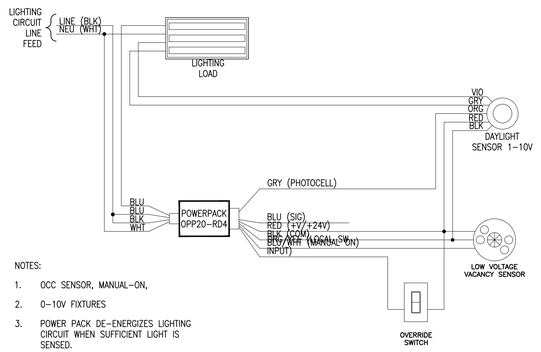
Contract No.: GR00000000

Drawing Title:
ELECTRICAL TYPICAL DETAILS -2

Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 08-25-21
Scale: AS NOTED
Drawing No.:
E702.00
Sheet: 65 OF

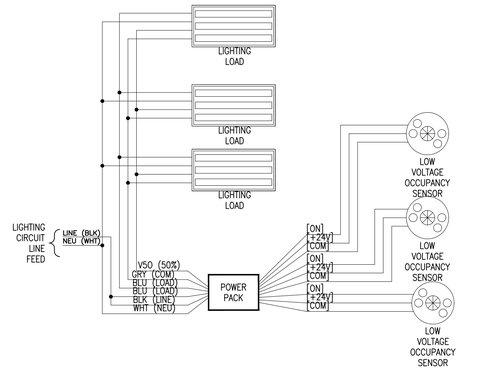
Orient and Affix DOB BSCAN Sticker Here



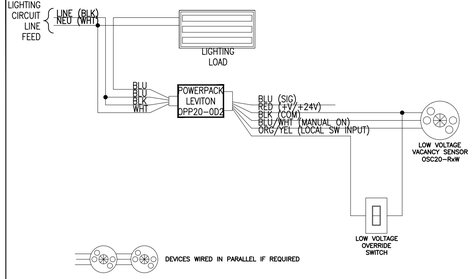
NOTES:

1. OCC SENSOR, MANUAL-ON,
2. 0-10V FIXTURES
3. POWER PACK DE-ENERGIZES LIGHTING CIRCUIT WHEN SUFFICIENT LIGHT IS SENSED.

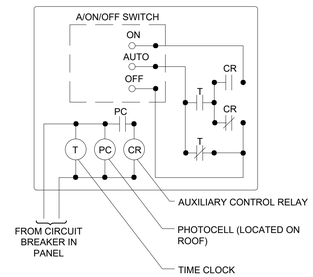
1 INDIVIDUAL OFFICE (ONE LIGHTING ZONE)
(N.T.S.)



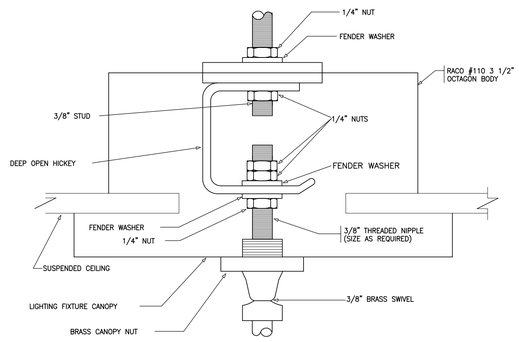
2 TYPICAL CORRIDOR AND OPEN SPACE LIGHTING CONTROL
(N.T.S.)



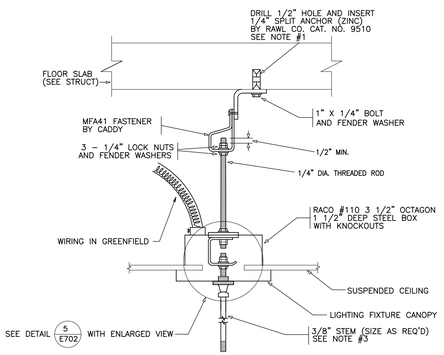
3 TYPICAL STORAGE LIGHTING CONTROL
(N.T.S.)



7 TYPICAL OUTSIDE LIGHTING CONTROL WIRING DIAGRAM
N.T.S.



4 LIGHTING SUPPORT FOR PENDANT MOUNTED LIGHTING FIXTURE (ENLARGED VIEW)
(N.T.S.)



NOTES:

1. DRILL HOLE IN THE CONCRETE SLAB, INSERT THREADED CONE FIRST, POSITION DEVICE (L SHAPED CORNER), INSERT BOLT. FOR MAXIMUM EXPANSION, THE ANCHOR SHOULD PROTRUDE SLIGHTLY ABOVE SURFACE OF MASONRY BEFORE SETTING IN PLACE.
2. APPLY LOCKTITE (BLUE) ON ALL THREADS
3. LIGHTING FIXTURE WIRES 2 #16 AWG. TYPE TFFN
4. ALL HARDWARE SHALL BE CAD. PLATED

6 LIGHTING SUPPORT FOR PENDANT MOUNTED LIGHTING FIXTURE
(N.T.S.)

LIGHTING FIXTURE SCHEDULE

FIXT. TYPE	DESCRIPTION/ MANUFACTURER	LAMPS NO.	LAMPS TYPE	VOLTS	MOUNTING	REMARKS
L1/ L1E	LIGHT FIXTURE 1: PINNACLE FINA 18" DIRECT SURFACE MOUNTED. 28.2W LED. "E" INDICATES EMERGENCY BATTERY BACKUP.	55	28.2W LED	120	SURFACE MOUNTED	USED AT VESTIBULE BATHROOMS CORRIDORS PRIVATE OFFICES
L2/ L2E	LIGHT FIXTURE 2: PINNACLE FINA 18" DIRECT SUSPENDED. 28.2W LED. "E" INDICATES EMERGENCY BATTERY BACKUP.	30	28.2W LED	120	SUSPENDED	USED AT OPEN OFFICE SPACES
L3/ L3E	LIGHT FIXTURE 3: PINNACLE FINA 24" DIRECT/INDIRECT SUSPENDED. 38.9W LED. "E" INDICATES EMERGENCY BATTERY BACKUP.	5	38.9W LED	120	SUSPENDED	USED IN AVERAGE SIZED ROOMS
L4/ L4E	LIGHT FIXTURE 4: PINNACLE FINA 24" DIRECT SURFACE MOUNTED. 38.9W LED. "E" INDICATES EMERGENCY BATTERY BACKUP.	6	38.9W LED	120	SURFACE MOUNTED	USED IN CONFERENCE ROOMS
L5/ L5E	LIGHT FIXTURE 5: LITHONIA BLWP2 SURFACE MOUNTED/SUSPENDED. 37W LED. "E" INDICATES EMERGENCY BATTERY BACKUP.	6	37W LED	120	SUSPENDED	USED IN STORAGE & CLOSET SPACES
L6/ L6E	LIGHT FIXTURE 6: LITHONIA BLWP4 SURFACE MOUNTED/SUSPENDED. 49W LED. "E" INDICATES EMERGENCY BATTERY BACKUP.	3	49W LED	120	SUSPENDED MOUNTED	USED IN MECHANICAL SPACES
L7	LIGHT FIXTURE 7: GARDCO SOFTVIEW SVPG-266L-1200-WW-G2-X / SURFACE MOUNTED. 52W LED.	4	52W LED	120	SURFACE MOUNTED	EXTERIOR LIGHTING
EXIT LIGHT	EMERGENCY EXIT SIGN: MULE LIGHTING NYELX	9	5W LED	120	SURFACE MOUNTED	USED IN EGRESS PATH

5 LIGHTING FIXTURE SCHEDULE
(N.T.S.)

SPECIAL NOTES

1. ALL FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL. DETERMINATION AS TO WHAT CONSTITUTES AN EQUAL SHALL BE MADE SOLELY BY NYCHA IF DEVIATED FROM FIXTURES INDICATED ON SCHEDULE ABOVE, CONTRACTOR SHALL SUBMIT A SAMPLE OF EACH TYPE BY AN APPROVED MANUFACTURER LISTED IN SPEC. SECTIONS, TOGETHER WITH CATALOG CUTS, SPECIFICATIONS AND COMPLETE PHOTOMETRIC DATA SUBSTANTIATED BY AN INDEPENDENT TESTING LABORATORY, SUCH AS I.T.L. MISSING OR VAGUE DATA WILL RESULT IN AUTOMATIC DISAPPROVAL.
2. WHEN DIRECTED, CONTRACTOR SHALL PROVIDE A MOCK-UP OF FIXTURE, AT LOCATION AS DIRECTED BY NYCHA. THE MOCK-UP SHALL CONSIST OF TWO FIXTURES AND LAMPS READY FOR OPERATION.
3. WHEN EXISTING STEMS ARE NOT USED, ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE ABOVE AND NOT FROM SUSPENDED CEILING.
4. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE RECESSED FIXTURES WITH APPROPRIATE CEILING CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE SCAFFOLDING TO ACCESS LIGHTING FIXTURES IN SPACES WITH HIGH CEILING, SUCH AS LOBBY ETC.
6. CONTRACTOR SHALL FIELD INSTALL ALL RECESSED LAY-IN TROFFERS WITH (4) FACTORY UL LISTED EARTHQUAKE CLIPS FOR EACH FIXTURE.
7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF FIXTURES.
8. REFER TO MANUFACTURER'S DATA SHEETS AND INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
9. GROUND NOT SHOWN. GROUND DEVICES PER APPLICABLE NATIONAL AND LOCAL CODES AND BEST PRACTICES.
10. LINE VOLTAGE LOAD NOT TO EXCEED CONTACT RATING PER DEVICE SPECIFICATIONS.
11. MAXIMUM RUN LENGTH FOR ANALOG WIRING IS 1000' @ #18 AWG.
12. SENSORS WIRED IN PARALLEL WILL CAUSE LINE VOLTAGE RELAY CLOSURE WHEN OCCUPANCY IS DETECTED BY ANY UNIT.
13. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
14. TROUGH MOUNTED, PENDANT MOUNTED, AND PENDANT MOUNTED INDIRECT LIGHTING SOURCES AFFECT THE OPERATION OF LOCALLY MOUNTED SENSORS. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING SENSOR LOCATIONS TO ALLOW FOR PROPER OPERATION.
15. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
16. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE OPERATIONAL OPTIONS OF SENSORS AND POWER CONTROL DEVICES WITH THE SPECIFIC WORK REQUIREMENTS.
    - WORK RELEVANT ENERGY CODE REQUIREMENTS AFFECT CIRCUITS TO BE CONTROLLED AND THEIR CONTROL CHARACTERISTICS.
    - ONE POWER CONTROL DEVICE IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
    - REFER TO POWER CONTROL DEVICE DATA SHEET FOR POWER OUTPUT AND INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO A POWER PACK.
    - IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER CONTROL DEVICE.
17. CEILING SENSORS MOUNTED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THE THRESHOLD.

NEW YORK CITY HOUSING AUTHORITY
CAPITAL PROJECTS DIVISION
DESIGN DEPARTMENT
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24-02 49TH Avenue
Long Island City, New York 11101

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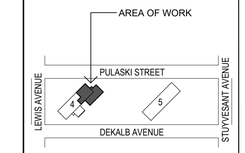

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Drawing Title:
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Seal & Signature:

Drawn By:	JOSHUA CHUKWUMA
Checked By:	ALFRED AZER, P.E.
Date:	08-25-21
Scale:	AS NOTED
Drawing No.:	E703.00
Sheet:	66 OF 66

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Interior Lighting and Exit Signs Power Calculation

Section 1:Energy Analysis - Tabular

Code chapter and/or standard used for design. NYC ECC 2020 - Chapter C4
Project Occupancy: **BBO - ROOSEVELT (360 PULASKI AVE.)**
Alteration - Lighting Fixture Installation
Climate zone: 4A

NYCECC Citation	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation (Drawings)
C405.2.1.1	**Interior lighting controls**	Interior lighting controls include manual, vacancy, and occupant sensor controls.	Interior lighting controls have been provided in accordance with C405.2.1.1and C405.2.2.2	Lighting systems shall be provided with controls as required in Sections C405.2.1.1and C405.2.2.2	See drawings: T001.00, E001.00, E101.00, E703.00
C405.2.2.3	**Daylight zone control**	Day light zone control for spaces with vertical fenestration	Manual Daylight Controls has been provided in accordance with C405.2.2.3.1	Day light zone control as per C405.2.2.3.1 Manual Daylight Control	See drawings: T001.00, E001.00, E101.00, E703.00
C405.4	**Exit Signs**	Exit Sign Replacement BBO - ROOSEVELT (360 PULASKI AVE.)	Watts per side of Internally illuminated exit signs are less than 5 watts in accordance with C405.4	Internally illuminated exit signs shall not exceed 5 watts per side as per C405.4	See drawings: T001.00, E001.00, E101.00, E703.00,
C405.5.2	**Interior lighting power**	Lighting Power Density of School building: BBO - ROOSEVELT (360 PULASKI AVE.)	Lighting Power Density (LPD): 0.896 Watts/ft²	The total interior lighting power (Watts) is the sum of interior lighting for all areas of the building covered in this permit. **Lighting Power Density (LPD) allowance: 1.2Watts/ft²**	See drawings: T001.00, E001.00, E101.00, E703.00

PASSES **0.90 Watts/ft² < 1.2 Watts/ft²**

Section 2: Interior Lighting and Power Calculation

Building	A			B	C	D	E	F	G
	Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast		Lamp Watts	Ballast Factor	Lamps/ Fixture	#of Fixtures	Fixture Watt.	(C X D) Total Watt.	AREA	(E/F) LPD (Watts/Sq.ft)
BBO - ROOSEVELT (360 PULASKI AVE.)	L1	LOUIS POULSEN, LP CIRCLE 10.5"- SURFACE MOUNT	30	0.88	1	54	26	1404	5310	**0.90**
	L2	LOUIS POULSEN, LP CIRCLE 18.0"- SURFACE MOUNT	25	0.88	1	28	22	616		
	L3	LOUIS POULSEN, LP ROUND 17.2"- SUSPENDED	54	0.88	2	5	95	475		
	L4	LOUIS POULSEN, LP ROUND 26.7"- SUSPENDED	54	0.88	4	6	190	1140		
	L5	LITHONIA STL2 SURFACE/SUSPENDED	39	0.88	2	6	69	414		
	L6	LITHONIA STL4 SURFACE/SUSPENDED	45.2	0.88	4	3	159	477		
	L7	GARDCO SOFTVIEW SVPG-266L-1200-WW-G2-X/SURFA	52	0.88	1	5	46	230		

Section 3: Exit Signage Power Calculation

School Building	A			B	C	D	E	F	
	Exit Sign Fixture ID: Description		Lamp Watts	Ballast Factor	Lamps/ Fixture	#of Fixtures	Fixture Watt.	Faces per Fixture	(C X D) Total Watts.	Watts per side of Exit sign Fixture =D/E
BBO -	X1	MULE LIGHTING NYELX	5	1	1	12	5.0	1	60	5

Section 3:Compliance Statement:

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2014 New York City Energy Conservation Code requirement and comply with mandatory requirements in the Requirements Checklist.

NEW YORK CITY ENERGY CONSERVATION CODE COMPLIANCE STATEMENT

THE PROPOSED PROJECT COMPLIES TO THE FOLLOWING GUIDELINES, PROVISIONS, RULES, AND REGULATIONS:

1. 2020 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC) CONTRACTOR TO COORDINATE INSPECTIONS WITH THE PROGRESS INSPECTION AGENCY AND SCA PROJECT OFFICER FOR COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC) SECTION C408.3.1– FUNCTIONAL TESTING

CONTRACTOR TO COORDINATE INSPECTIONS WITH THE PROGRESS INSPECTION AGENCY AND SCA PROJECT OFFICER FOR COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC) SECTION C408.3.1– FUNCTIONAL TESTING

PROFESSIONAL STATEMENT OF COMPLIANCE BY THE DESIGN PROFESSIONAL:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE". FURTHERMORE, THE ABOVE STATEMENT IS SUBMITTED OR INCLUDED IN THE PW–1 APPLICATION.

THE DETERMINATION THAT THE PROPOSED INTERIOR LIGHTING FIXTURE REPLACEMENT MEETS NYCECC IS BASED ON THE ATTACHED ENERGY ANALYSIS AND IS IN COMPLIANCE WITH MINIMUM ARTIFICIAL LIGHTING REQUIREMENTS AS STATED ON BC 1205.3

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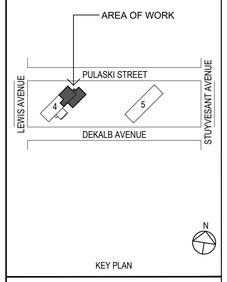

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ELECTRICAL LIGHTING ENERGY ANALYSIS

Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 08-25-21
Scale: AS NOTED
Drawing No.:
EN002.00
Sheet: 5 OF 33

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FIRE DETECTION & ALARM SYSTEM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM SYSTEM CONTROL PANEL.
F D	FIRE ALARM PULL STATION. MOUNTED AT 48" AFF. SUBSCRIPT 'D' DENOTES DUAL-ACTION BOXES
F	FIRE ALARM PULL STATION WITH FIRE SIGNAL HORN ABOVE.
G	FIRE SIGNAL STROBE. SUBSCRIPT 'G' DENOTES WITH GUARD.
G	FIRE SIGNAL HORN WITH FIRE SIGNAL STROBE. SUBSCRIPT 'G' DENOTES WITH GUARD.
F G	FIRE SIGNAL PULL STATION BELOW WITH HORN AND STROBE ASSEMBLY ABOVE. SUBSCRIPT 'G' DENOTES WITH GUARD.
FDS	FIRE ALARM DISCONNECT SWITCH.
S D	SMOKE DETECTOR. SUBSCRIPT 'D' INDICATES DUCT MOUNTED.
CO	CARBON MONOXIDE DETECTOR
H D	HEAT DETECTOR. SUBSCRIPT 'D' INDICATES DUCT MOUNTED.
CIM	CONTACT INTERFACE MODULE.
FARA	FIRE ALARM REMOTE ANNUNCIATOR.
FAPR	FIRE ALARM PRINTER.
GLT	GAS LEAK DETECTION SYSTEM PANEL
TS	FIRE ALARM TAMPER SWITCH.
FS	FIRE ALARM FLOW SWITCH.
PS	FIRE ALARM PRESSURE SWITCH.
BPS	BOOSTER POWER SUPPLY
MM	INDIVIDUALLY ADDRESSABLE MONITOR MODULE
FCO	FUSE CUTOUT PANEL.
R	RELAY MODULE

POWER

SYMBOL	DESCRIPTION
2,4	CONDUIT WITH WIRE RUN EXPOSED IN CEILING OR WALL. HASHMARKS DENOTE NUMBER OF WIRES IF MORE THAN TWO ARE REQUIRED. ARROWS DENOTE HOMERUNS OF PARTICULAR CIRCUITS AND QUANTITY OF 1P-20A CIRCUITS. MINIMUM 2#12, 1#12 GND THHN / THWN IN 3/4" CONDUIT U.O.N.
J J	CEILING MOUNTED JUNCTION/SPLICE BOX, SIZE AS REQUIRED. SUBSCRIPT 'F' INDICATES FLOOR MOUNTED.
	GROUND
J	JUNCTION BOX/FLEXIBLE CONDUIT FOR EQUIPMENT CONNECTION WITH POWER AND GROUND WIRES. 'SEALTITE' AS REQUIRED.
	LIGHTING AND POWER PANELBOARD, FLUSH OR SURFACE MOUNTED IN WALL WITH COVER INDICATED.
T	20A TWIST LOCK RECEPTACLE MOUNTED AT 18" AFF.

LIST OF DRAWINGS

DWG. NO	DRAWING TITLE
FA001.00	FIRE ALARM SYSTEM SYMBOLS, GENERAL NOTES & ABBREVIATIONS
FA061.00	FIRE ALARM DEMOLITION PLAN – 360 PULASKI
FA101.00	FIRE ALARM NEW WORK PLAN – 360 PULASKI
FA501.00	FIRE ALARM RISER DIAGRAM – 360 PULASKI
FA701.00	FIRE ALARM SYSTEM MATRIX AND NOTES
FA702.00	FIRE ALARM SYSTEM DETAILS

FIRE ALARM NOTES:

1. FOR AN EXPLANATION OF THE SYMBOLS AND ABBREVIATIONS USED ON THESE DRAWINGS, SEE THE SYMBOLS LIST AND ABBREVIATION LIST ON THIS SHEET.
2. CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF AS-BUILT DRAWINGS AND ANY OTHER DOCUMENTATION AS REQUIRED FOR FILING THE FIRE ALARM WORK AND GETTING THE FDNY LETTER OF APPROVAL. HE IS ALSO RESPONSIBLE FOR THE COORDINATION OF INSPECTION WITH DOB-ELECTRICAL INSPECTION UNIT, FDNY AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THIS WORK.
3. THE CONTRACTOR SHALL CHECK THE LOCATION, NUMBER AND SIZE OF ALL CHASES PROVIDED ON THE CONSTRUCTION PLANS AND ARRANGE FOR ANY OTHERS REQUIRED FOR CABINETS OR BOXES.
4. PULL AND JUNCTION BOXES SHALL BE SURFACE TYPE IN UNFINISHED AREAS AND FLUSH TYPE IN FINISHED AREAS, UNLESS OTHERWISE NOTED. THE JUNCTION AND PULL BOXES SHALL BE LOCATED APPROXIMATELY WHERE INDICATED ON THE PLAN TO SUIT CONDUIT ENTRANCE, BUT SHALL, IN ALL CASES, BE LOCATED TO AVOID INTERFERENCE WITH EQUIPMENT FROM OTHER TRADES AND SHALL BE LOCATED SO THAT COVERS ARE READILY ACCESSIBLE.
5. UNLESS OTHERWISE NOTED ON FLOOR PLANS SWITCHES SHALL BE INSTALLED AT 4'-0" ABOVE FINISHED FLOOR.
6. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS.
7. VISUAL FIRE ALARMS (STROBES) SHALL HAVE MINIMUM 5'-0" CLEARANCE FROM ANY OBSTRUCTIONS AND SHALL BE RATED AT 75 CANDELA MINIMUM. ALL THE STROBES SHALL BE SYNCHRONIZED AT LINE OF SIGHT.
8. WALL MOUNTED HORNS AND VISUAL FIRE ALARMS (STROBES) SHALL BE MOUNTED AT 8'-0" A.F.F. WHERE LOCAL CONDITIONS DIFFER INSTALL THE STROBES AT 6" BELOW THE CEILING.
9. MANUAL PULL STATIONS SHALL BE MOUNTED AT 4'-0" A.F.F.
10. PROVIDE FIRE STOP SEAL AT ALL PENETRATIONS OF FIRE RATED PARTITIONS.
11. PROVIDE EXPANSION JOINTS AT ALL REQUIRED CROSSING OF EXPANSION POINT & FIRE RATED FLOOR, CEILINGS CONSTRUCTION.
12. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION.
13. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS, AND DISRUPTIONS TO NORMAL SERVICES WITH THE DEVELOPMENT.
14. ANY EXISTING PANEL BEING REMOVED SHALL HAVE IT'S WIRING AND CONDUIT REMOVED BACK TO SOURCE.
15. EXACT LOCATIONS OF ALL EQUIPMENT AND DEVICES ARE TO BE COORDINATED WITH EXISTING FIELD CONDITIONS.
16. EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION UNTIL COMPLETION OF INSTALLATION OF NEW SYSTEM AND ACCEPTANCE BY NYC FIRE DEPARTMENT AND THE LOCAL CODE OFFICIAL.
17. VISUAL DEVICES SHALL NOT HAVE ANY APPURTENANCES WITHIN 5 FEET RADIUS.
18. ALL COMPONENTS SHOWN ON RISER DIAGRAMS, BUT NOT ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
19. SOME EXISTING DEVICES INADVERTENTLY MISSED ON THE REMOVAL PLANS, BUT ARE BELONGING TO THE SYSTEMS BEING REMOVED, SHALL BE REMOVED AT NO EXTRA COST. THE DEVICES/SYSTEMS SHALL BE VERIFIED BEFORE REMOVAL. ALLOW 10% BEYOND THE ITEMS INDICATED ON THE REMOVALS PLANS.
20. DRAWINGS ARE NOT BE SCALED. USE DIMENSIONS ONLY. ALL DIMENSIONS AND CONDITIONS SHOWN AND ASSUMED ON THE DRAWINGS MUST BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE AUTHORITY. NO CHANGE IN DRAWINGS OR SPECIFICATIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED.
21. ALL FIRE ALARM EQUIPMENT/DEVICES USED SHALL BE BY APPROVED MANUFACTURERS AND SHALL BE LISTED FOR ITS INTENDED USE.
22. THE FIRE ALARM PANEL SHALL RECEIVE POWER FROM A DEDICATED FUSE CUTOUT PANEL AND SHALL HAVE A BATTERY BACKUP.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH CHAPTER 17 AND THE APPLICABLE SECTIONS OF THE NYC CONSTRUCTION CODE ARE LISTED IN THE FOLLOWING TABLES:

THE CONTRACTOR MUST NOTIFY THE ARCHITECT OR ENGINEER FOR SPECIAL INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES.

THE "AUTHORITY" SHALL BE RESPONSIBLE FOR THE FOLLOWING SPECIAL INSPECTIONS:	
FIRE-RESISTANT PENETRATIONS AND JOINT	BC 1704.27

NOTE: REQUIRED INSPECTIONS AND TESTS OF MATERIALS DESIGNATED FOR "SPECIAL INSPECTION" BY THE CONTRACTOR SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER RETAINED BY OR ON THE BEHALF OF THE CONTRACTOR WHO SHALL BE ACCEPTABLE TO THE ARCHITECT OR ENGINEER WHO SUPERVISED THE PREPARATION OF THE PLANS.

FIRE ALARM TEST

THE FOLLOWING SPECIAL INSPECTION IS REQURIED BY THE 2014 NYC BUILDING CODE FOR THE ELECTRICAL TRADE:

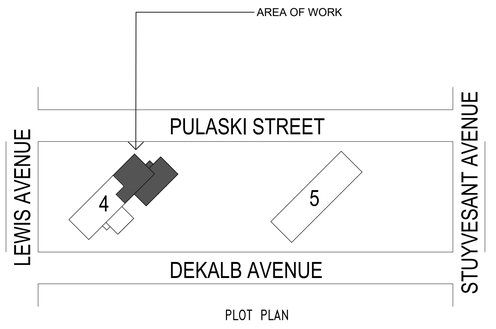
ITEM	CODE SECTION
FIRE ALARM TEST	BC 907, BC 1704.13

FIRE ALARM SCOPE OF WORK:

1. REMOVE EXISTING FIRE ALARM CONTROL PANEL, PULL BOXES, FIRE HORNS, PULL BOXES, FIRE HORNS, WIRING AND EXPOSED CONDUITS AND ETC. RELATED TO THE EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL REMOVE DEVICES BELONGING TO THE PARTICULAR SYSTEM BEING REPLACED ONLY. IF IN DOUBT, CONTRACTOR SHALL INQUIRE WITH NYCHA OFFICIALS PRIOR TO REMOVAL.
2. PROVIDE NEW FIRE ALARM PANEL, PULL STATIONS, HORNS AND STROBES. EVERY OFFICE AND TOILET, SHALL HAVE A VISIBLE STROBE.
3. PROVIDE BOOSTER POWER SUPPLY (BPS) AS REQUIRED TO ACCOMMODATE THE FA INITIATING DEVICES.
4. ABATE HAZARDOUS MATERIAL (ACM, PCB, LBP) RELEVANT TO THE SCOPE OF THIS PROJECT.

ABBREVIATIONS

A	AMPERE	LP	LIGHTING PANEL
AC	ALTERNATING CURRENT	LS	LOUDSPEAKER
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
ARCH	ARCHITECTURAL	MATV	MASTER TELEVISION
ATS	AUTOMATIC TRANSFER SWITCH	MCC	MOTOR CONTROL CENTER
A/C	AIR CONDITIONING	MECH	MECHANICAL
C	CONDUIT	MER	MECHANICAL EQUIPMENT ROOM
CAB	CABINET	MIC	MICROPHONE
CLG	CEILING	MTD	MOUNTED
CB	CIRCUIT BREAKER	N	NEUTRAL
CKT(S)	CIRCUIT(S)	N.C.	NORMALLY CLOSED
COL	COLUMN	N.O.	NORMALLY OPEN
DWG	DRAWING	P	POLE(S)
EC	EMPTY CONDUIT	PB	PULL BOX
ELEC	ELECTRIC	PNL	PANEL
EMR	ELEVATOR MECHANICAL ROOM	RC	REMOTE CONTROL
EXH	EXHAUST	SP	SPARE
EXIST	EXISTING	SSB	SOLID STATE BALLAST
FL	FLOOR	STD	STANDARD
G	GUARD	SW	SWITCH
GND	GROUND	SWBD	SWITCHBOARD
GFI	GROUND FAULT INTERRUPTER	TEL	TELEPHONE
GRC	GALVANIZED RIGID CONDUIT	TV	TELEVISION
IG	ISOLATED GROUND	TYP	TYPICAL
JB	JUNCTION BOX	U.O.N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT AMPERE	V	VOLT
KW	KILOWATT	W	WATT
KWH	KILOWATT HOUR	WP	WEATHERPROOF



PLOT PLAN

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, ALL PLANS AND APPLICATIONS ARE IN COMPLIANCE WITH THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE.

CAPITAL PROJECTS DIVISION
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DESIGN DEPARTMENT
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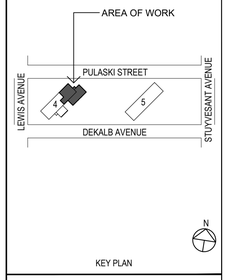
PROGRAM UNIT:
PROJECT MANAGEMENT TEAM - 3

BY DATE	Rev. No.	SUBMISSION

Development:
ROOSEVELT I HOUSES
Building Address:
360 PULASKI STREET
Building No: 4 ORACLE No: 11963
Borough of: BROOKLYN



KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
FIRE ALARM SYSTEM SYMBOLS, GENERAL NOTES & ABBREVIATIONS

Seal & Signature:

Drawn By:	JOSHUA CHUKWUMA
Checked By:	ALFRED AZER, P.E.
Date:	08-25-21
Scale:	AS NOTED

Drawing No.:
FA001.00

Sheet: 2 OF

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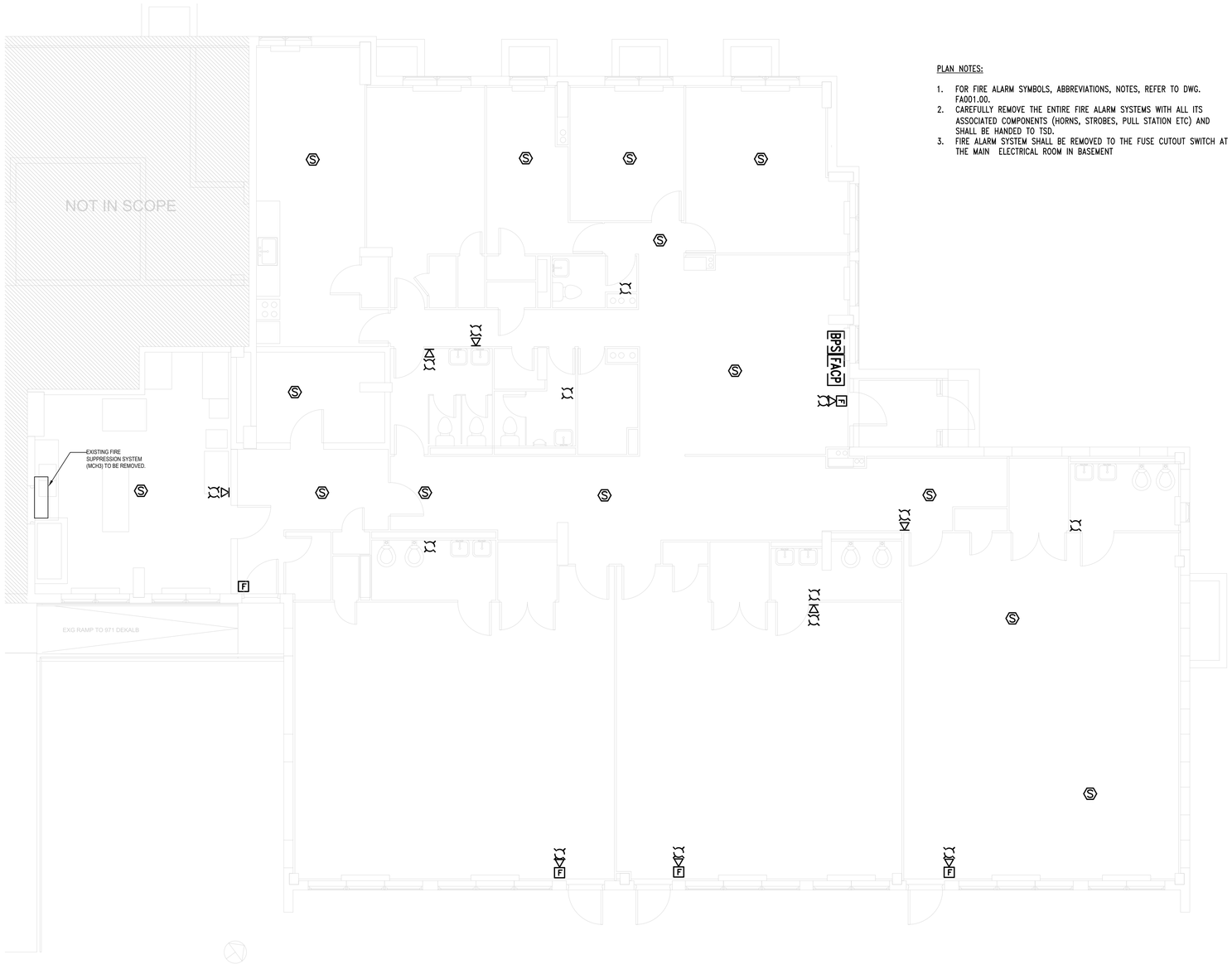
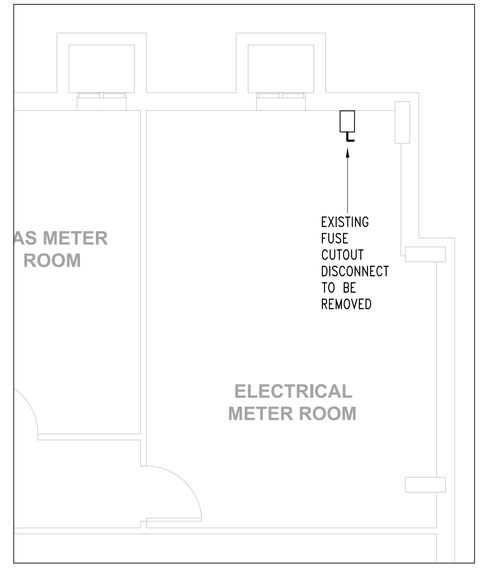


PLAN NOTES:

1. FOR FIRE ALARM SYMBOLS, ABBREVIATIONS, NOTES, REFER TO DWG. FA001.00.
2. CAREFULLY REMOVE THE ENTIRE FIRE ALARM SYSTEMS WITH ALL ITS ASSOCIATED COMPONENTS (HORNS, STROBES, PULL STATION ETC) AND SHALL BE HANDED TO TSD.
3. FIRE ALARM SYSTEM SHALL BE REMOVED TO THE FUSE CUTOUT SWITCH AT THE MAIN ELECTRICAL ROOM IN BASEMENT



2 / FA061 — ELECTRIC ROOM DEMO - PART PLAN
SCALE: 1/4"=1'-0"

1 / FA061 — FIRE ALARM DEMOLITION PLAN - 360 PULASKI
SCALE: 3/16"=1'-0"

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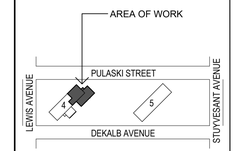

KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

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Drawing Title:
FIRE ALARM DEMOLITION PLAN – 360 PULASKI

Seal & Signature:

Drawn By:	JOSHUA CHUKWUMA
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Date:	08-25-21
Scale:	AS NOTED
Drawing No.:	FA061.00
Sheet:	46 OF

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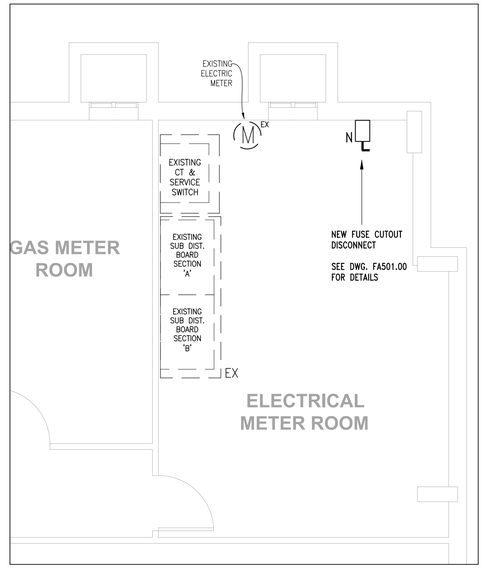
PLAN NOTES:

1. FOR GENERAL NOTES, SYMBOL LIST, ABBREVIATIONS AND FIRE ALARM SYSTEM DRAWING LIST REFER TO DWG FA001.
2. UNLESS OTHERWISE NOTED ON DRAWING MOUNTING HEIGHTS OUTLETS AND EQUIPMENT SHALL BE AS INDICATED ON SYMBOL LIST & SPECIFICATIONS.
3. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS ARE TO BE PROVIDED WITH FIRE STOP SEALS AS REQUIRED BY CODE TO MAINTAIN FIRE RATING OF PARTITIONS.
4. WALL MOUNTED HORNS AND VISUAL FIRE ALARMS (STROBES) SHALL BE MOUNTED SUCH THAT THE ENTIRE STROBE LENS IS LOCATED NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
5. FIRE ALARM PULL STATIONS SHALL BE MOUNTED MIN 3'-6" AND MAX 4'-0" FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE.
6. ACCESS SHALL BE PROVIDE TO EACH DETECTOR FOR PERIODIC INSPECTION,MAINTENANCE AND TESTING AS PER SECTION 907.12 OF N.Y.C. BUILDING CODE.
7. ALL CONDUITS, FITTINGS, BOXES, OUTLETS IN GAS METER ROOM SHALL BE EXPLOSION PROOF.
8. CONTRACTOR SHALL COORDINATE THE QUANTITIES OF TAMPER SWITCHES WITH THE PLUMBING CONTRACTOR.
9. WARMING KITCHEN, ANSUL SYSTEM IS NOT REQUIRED.
10. FOR EXACT LOCATION AND QUANTITIES OF MECHANICAL AND PLUMBING EQUIPMENT AND DEVICES, REFER TO MECHANICAL AND PLUMBING DRAWINGS.

1 / FA101 FIRE ALARM NEW WORK PLAN - 360 PULASKI
SCALE: 3/16"=1'-0"



2 / FA101 ELECTRIC ROOM PART PLAN
SCALE: 3/8"=1'-0"

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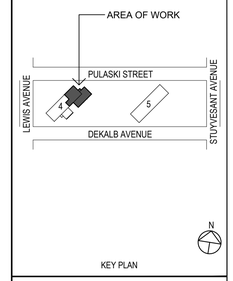

KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
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Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

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Drawing Title:
FIRE ALARM NEW WORK PLAN – 360 PULASKI

Seal & Signature:

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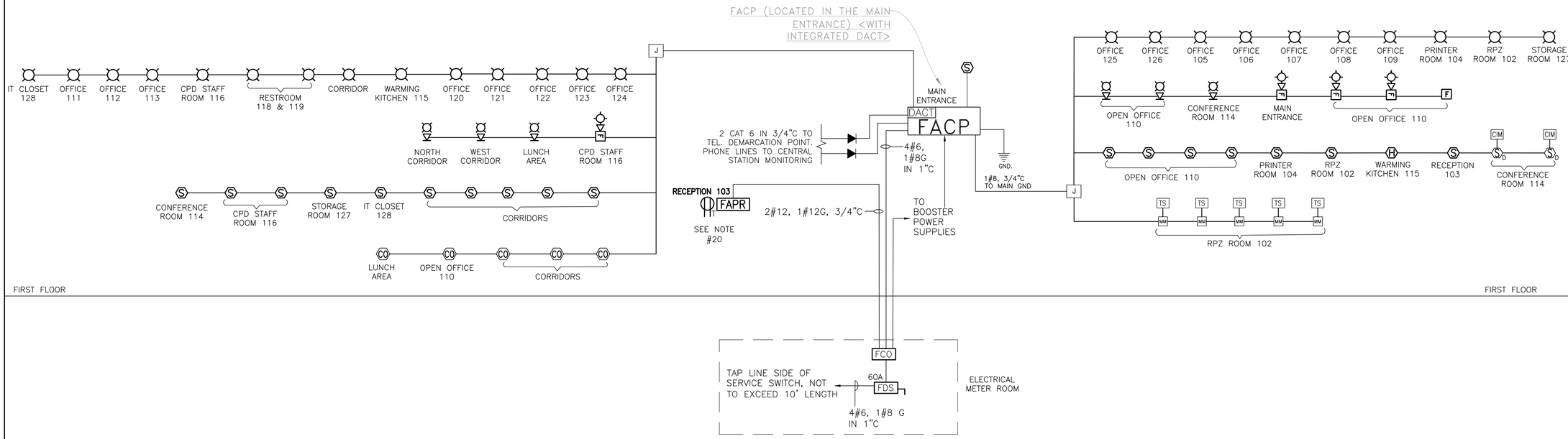

FIRE ALARM SYSTEM RISER NOTES:

1. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS.
2. VISUAL FIRE ALARMS (STROBES) SHALL HAVE MINIMUM 5'–0" CLEARANCE FROM ANY OBSTRUCTIONS AND SHALL BE RATED AT 75 CANDELA MINIMUM. ALL THE STROBES SHALL BE SYNCHRONIZED AT LINE OF SIGHT.
3. WALL MOUNTED HORNS AND VISUAL FIRE ALARMS (STROBES) SHALL BE MOUNTED AT 80"–96" A.F.F. WHERE LOCAL CONDITIONS DIFFER INSTALL THE STROBES AT 6" BELOW THE CEILING.
4. THE HANDLE OF ALL MANUAL PULL STATIONS SHALL BE MOUNTED AT 4'–0" A.F.F.
5. FUSE DISCONNECT SWITCH SHALL COMPLY WITH N.Y.C. BUILDING CODE AND HAVE A REMOVABLE SOLID COPPER NEUTRAL BAR.
6. ALL CONDUITS AND CONTROL PANELS SHALL BE GROUNDED TO THE WATER MAIN WITH A MINIMUM #8 CONDUCTOR.
7. RISER DIAGRAM ON THIS DRAWING IS FOR DESIGN PURPOSE ONLY. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING REQUIRED.
8. EACH FIRE ALARM INITIATING AND INDICATING CIRCUIT SHALL BE ELECTRICALLY SUPERVISED.
9. EACH VISUAL FIRE ALARM CIRCUIT SHALL CONTAIN AT LEAST 20% SPARE CAPACITY.
10. ALL CONTROL PANELS, FUSE DISCONNECT, SPRINKLER BELLS SHALL BE PROPERLY LABELED WITH MINIMUM 1/4" HIGH LETTERS.
11. ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE FLUOROPOLYMER 'TEFLON' TYPE CABLING AND SHALL MEET THE REQUIREMENTS UL 1424 AND UL 910 AS FOLLOWS:
    - A. A MINIMUM TEMPERATURE RATING OF 150 DEGREES CELSIUS.
    - B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS.
    - C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS.
    - D. THE COLOR OF THE CABLE SHALL BE RED.
    - E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE).
    - F. THE CABLE SHALL BE VISUALLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS, CLASSIFIED NYC CERTIFIED FIRE ALARM CABLE AND IS LISTED BY UL.
12. INDICATION OF A CONTROL RELAY INTERFACE MODULE SYMBOL CIM AT A FAN SYSTEM MOTOR (GYMNASIUM FAN ETC.) REPRESENTS ALL NECESSARY TECHNICAL MEANS TO ACCOMPLISH FAN SHUT DOWN. PROVIDE 4#14 IN 3/4"C FROM FACP TO THE CIM MODULE AND 2#12 IN 3/4"C TO THE RESPECTIVE STARTERS TO INCORPORATE FAN SHUTDOWN.
13. LOCATION OF "PB"S" (PULL BOXES) ARE SUGGESTED ROUTING, FINAL DETERMINATION IS TO BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
14. FIRE ALARM CONTROL PANEL FACP SHALL HAVE BACK–UP BATTERIES. SEE SPEC 16720 FOR DETAILS.
15. PROVIDE A DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT) & TWO (2) DEDICATED TELEPHONE LINES UPSTREAM OF ANY TELEPHONE SYSTEM IN THE BUILDING. THE DACT MUST BE CONNECTED TO THE FACP FOR ANNUNCIATION AT A NYCHA SELECTED FIRE DEPARTMENT APPROVED CENTRAL MONITORING CENTRAL STATION.
16. PROVIDE THE NUMBER OF CONDUITS AS REQUIRED.
    CONDUITS FILL OF ALL FIRE ALARM CABLES SHALL BE AS FOLLOWS AND AS PER NYC ELECTRICAL CODE:
    - 3/4" CONDUIT: UP TO 6 F.A. CABLES
    - 1" CONDUIT: UP TO 10 F.A. CABLES
    - 1 1/4" CONDUIT: UP TO 17 F.A. CABLES
    - 1 1/2" CONDUIT: UP TO 23 F.A. CABLES
    - 2" CONDUIT: UP TO 38 F.A. CABLES
17. THE RISER DIAGRAM INDICATES FIRE ALARM SYSTEM DEVICES, CONNECTIONS, CONDUIT RUNS ETC. QUANTITY AND TYPE OF DEVICES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. SUBMIT ACTUAL RISERS, POINT–TO–POINT WIRING DIAGRAM INCLUDING WIRE AND CONDUIT SIZES AND INTERCONNECTIONS AS SHOP DRAWINGS. CONTRACTOR SHALL INSTALL FIRE ALARM SYSTEM ONLY AFTER ALL SHOP DRAWINGS ARE APPROVED BY THE ENGINEER OF RECORD.
18. ALL WIRING SHALL BE IN MINIMUM 3/4" EMT, UNLESS OTHERWISE NOTED IN SPECIFICATION 16130.
19. HEAT DETECTOR SHALL BE MARKED AT 194 F FIXED TEMPERATURE.
20. 20A TWIST LOCK RECEPTACLE MOUNTED AT 18" AFF.

1 / FA501 — FIRE ALARM RISER DIAGRAM - 360 PULASKI
NOT TO SCALE

NEW YORK CITY HOUSING AUTHORITY
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DESIGN DEPARTMENT
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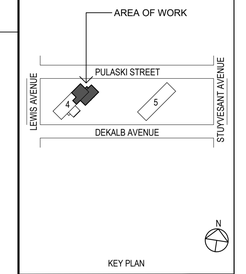

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Drawing Title:
FIRE ALARM RISER DIAGRAM –360 PULASKI

Seal & Signature:

Drawn By:	JOSHUA CHUKWUMA
Checked By:	ALFRED AZER, P.E.
Date:	08-25-21
Scale:	AS NOTED

Drawing No.:
FA501.00

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FIRE ALARM RISER NOTES

1. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS.
2. VISUAL FIRE ALARMS (STROBES) SHALL HAVE MINIMUM 5'-0" RADIUS CLEARANCE FROM ANY OBSTRUCTIONS AND SHALL BE RATED AT 75 CANDELA MINIMUM.
3. ALL CONDUITS AND CONTROL PANELS SHALL BE GROUNDED TO THE WATER MAIN WITH A MINIMUM #8 CONDUCTOR.
4. RISER DIAGRAM ON THIS DRAWING IS FOR DESIGN PURPOSE ONLY. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING, INCLUDING ALL MODULES, DEVICES ETC. REQUIRED SO THAT THE SYSTEM SHALL PERFORM PER SEQUENCE OF OPERATION.
5. EACH FIRE ALARM INITIATING AND INDICATING CIRCUIT SHALL BE PROPERLY LABELED WITH MINIMUM 1/4" HIGH LETTERS.
6. PROVIDE THE NUMBER OF CONDUITS AS REQUIRED.
7. CONDUIT FILL OF ALL FIRE ALARM CABLES SHALL BE AS FOLLOWS:
   - 3/4" CONDUIT: UP TO 4 F.A. CABLES
   - 1" CONDUIT: UP TO 6 F.A. CABLES
   - 1 1/2" CONDUIT: UP TO 10 F.A. CABLES
   - 2" CONDUIT: UP TO 15 F.A. CABLES
8. ALL FIRE ALARM CABLES SHALL BE AS SPECIFIED IN SPEC. SECTION 16720.
9. ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE FLUOROPOLYMER 'TEFLON' TYPE CABLING AND SHALL MEET THE REQUIREMENTS UL 1424 AND UL 910 AS FOLLOWS:
   - A. A MINIMUM TEMPERATURE RATING OF 150 DEGREES CELSIUS.
   - B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS.
   - C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS.
   - D. THE COLOR OF THE CABLE SHALL BE RED.
   - E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE).
   - F. THE CABLE SHALL BE VISUALLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS, CLASSIFIED NYC CERTIFIED FIRE ALARM CABLE AND IS LISTED BY UL.
10. ALL EQUIPMENT, COMPONENTS AND DEVICES ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE M.E.A. OR B.S.A. APPROVED. THE SYSTEM SHALL CONFORM TO ALL N.Y.C. BUILDING CODES AND LOCAL LAWS. ALL N.Y.C. BUILDING CODES AND LOCAL LAWS.
11. PROVIDE ALL LABOR AND MATERIALS REQUIRED SO THAT THE FIRE ALARM SYSTEM SHALL PERFORM AS DESCRIBED IN THE INPUT/OUTPUT MATRIX.
12. PROVIDE ALL MODULES, RELAYS, WIRING IN CONDUIT AS REQUIRED FOR BOILER SHUTDOWN.
13. HORNS/STROBES SHALL BE INSTALLED AT 80" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
14. CENTRAL MONITORING STATION SHALL RECEIVE SEPARATE AND DISTINCT SIGNALS FOR EACH OF THE FOLLOWINGS: MANUAL, SMOKE, IN-DUCT, HEAT, CO DETECTION.
15. THIS DIAGRAM INDICATES TYPICAL DEVICES, CONNECTIONS, RUNS, ETC. QUANTITY AND TYPES OF DEVICES SHALL BE AS INDICATED ON THE PLANS AND/OR SPECIFICATIONS, SUBMIT ACTUAL RISERS, POINT-TO-POINT WIRING DIAGRAMS AND INTERCONNECTIONS AS SHOP DRAWINGS.
16. CONNECT EACH BOOSTER POWER SUPPLY TO A CIRCUIT ON FCO PANEL WITH 2#10 IN 3/4"C.
17. PROVIDE MODULES FOR ALL DEVICES AS REQUIRED.
18. FUSE CUTOUT PANEL SHALL CONTAIN MINIMUM OF POLES EQUAL TO NUMBER OF BOOSTER POWER SUPPLIES PLUS THREE.
19. FIRE ALARM SYSTEM SHALL RECEIVE POWER FROM A DEDICATED FUSE CUTOUT PANEL WITH BATTERY BACK UP AS PER CODE.
20. ALL COMPONENTS OF FIRE ALARM SYSTEM TO BE 'UL' LISTED FOR THEIR INTENDED PURPOSE.
21. THE ENTIRE SYSTEM SHALL BE ADDRESSABLE ANALOG TYPE AS PER NFPA 72. AS SUCH END REGISTERS ARE NOT REQUIRED.
22. THE TOTAL COVERAGE FOR SMOKE DETECTOR SHALL BE PER NFPA 72 17.5.3.1.
23. THE TEMPERATURE MARKING FOR HEAT DETECTOR SHALL BE 194 F FIXED TEMPERATURE.
24. CONTRACTOR TO PROVIDE SUBMITTALS TO ENGINEER OF RECORD AS PER NYCSCA SPEC SECTION SO1300. BATTERY CALCULATIONS TO BE PROVIDED UPON RECEIPT OF SUBMITTALS FROM GC. NO FDNY INSPECTION CAN BE OBTAINED UNLESS THE CALCULATION IS PROVIDED. BATTERY CALCULATIONS SHOULD HAVE 20% SAFETY MARGIN TO THE CALCULATED AMP-HOUR RATING AS PER NFPA (72-2010) 10.5.6.3.1.
25. PATHWAY SURVIVABILITY- ALL PATHWAYS SHALL COMPLY WITH NFPA 70, NATIONAL ELECTRIC CODE.
26. ALL CIRCUITS ARE CLASS B TYPE, STYLE 4(CLASS B) CIRCUIT.
27. ALL NEW SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH REQUIREMENTS OF CHAPTER 14 AS PER NFPA 72 14.4.1.1.1.1
28. ALL WIRING SHALL BE IN MINIMUM 3/4" EMT, UNLESS OTHERWISE NOTED IN SPECIFICATION 16130.

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

1. THE SYSTEM SHALL BE A TEMPORAL 3 FIRE ALARM SYSTEM AND SHALL PERFORM IN ACCORDANCE WITH THE INPUT/OUTPUT MATRIX ABOVE.
2. UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND APPROVAL BY THE NYC FIRE DEPARTMENT,CONTRACTOR SHALL PROVIDE A COMPLETE MATRIX OF AS-BUILT CONDITION.

SYSTEM OUTPUTS

SYSTEM INPUTS		MAIN CONTROL PANEL & REMOTE ANNUNCIATION							NOTIFICATION											REQUIRED FIRE SAFETY CONTROL							
		A: DISPLAY DEVICE IN ALARM ON THE LCD CHARACTER DISPLAY	B: ACTUATE LOCAL AUDIBLE SIGNAL W/ COMMON ALARM LED	C: DISPLAY SUPERVISORY CONDITION ON THE LCD CHARACTER DISPLAY	D: ACTUATE LOCAL AUDIBLE SIGNAL W/ COMMON SUPERVISORY LED	E: DISPLAY TROUBLE DEVICE/CONDITION ON THE LCD CHARACTER DISPLAY	F: ACTUATE LOCAL AUDIBLE SIGNAL W/ COMMON TROUBLE LED	G: ADD INPUT TO OPEN STATUS AND PURGE FAN STATUS ON FACP	H: STROBES SHALL FLASH CONTINUOUSLY UNTIL MANUALLY RESET	I: ACTIVATE TEMPORAL-THREE SIGNAL AT ALL HORNS	J: ACTIVATE TEMPORAL-FOUR SIGNAL AT ACTIVATED C.O. DETECTORS INTEGRAL HORN	K: TRANSMIT 'MANUAL PULL STATION ALARM' SIGNAL TO A SUPERVISING STATION	L: TRANSMIT 'SMOKE ALARM' SIGNAL TO A SUPERVISING STATION	M: TRANSMIT 'SPRINKLER ALARM' SIGNAL TO A SUPERVISING STATION	N: TRANSMIT 'FIRE PUMP SUPERVISORY' SIGNAL TO A SUPERVISING STATION	O: TRANSMIT 'C.O. ALARM' SIGNAL TO A SUPERVISING STATION	P: TRANSMIT 'SUPERVISORY' SIGNAL TO A SUPERVISING STATION	Q: TRANSMIT 'TROUBLE' SIGNAL TO A SUPERVISING STATION	R: RECORD THE EVENT ON THE SYSTEM PRINTER	S: INITIATE FAN SHUTDOWN. FANS SHALL REMAIN 'OFF' UPON SYSTEM RESET	T: CLOSE FIRE / SMOKE DAMPERS	U: RELEASE ALL MAGNETICALLY HELD DOORS	V: RELEASE RESPECTIVE HATCH	W: INITIATE ELEVATOR RECALL TO GROUND LEVEL	X: INITIATE BOILER ROOM ELECTRICAL PANELBOARD SHUTDOWN	Y: RESTART FANS IN A STAGGERED MANNER	
1	MANUAL FIRE ALARM PULL STATION	●	●						●	●		●															1
2	AREA SMOKE DETECTOR	●	●						●	●			●							●							2
3	AREA HEAT DETECTORS	●	●						●	●			●							●							3
4	DUCT SMOKE DETECTOR	●	●						●	●			●							●							4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●												●	●							5
6	WATER FLOW ALARM	●	●						●	●				●						●							6
7	SPRINKLER TAMPER SWITCH			●	●													●		●							7
8	CARBON MONOXIDE DETECTORS			●	●		●				●						●			●							8
9	DAMPER FAILURE TO OPEN			●	●													●		●							9
10	FIRE ALARM AC POWER FAILURE					●	●												●	●							10
11	FIRE ALARM SYSTEM LOW BATTERY					●	●												●	●							11
12	OPEN CIRCUIT					●	●												●	●							12
13	GROUND FAULT					●	●												●	●							13
14																											14
15																											15
16																											16
17																											17
18																											18
19																											19
20																											20
21																											21
22																											22
23																											23

SEQUENCE OF OPERATION FOR THE FIRE ALARM SYSTEM

THE FIRE ALARM SYSTEM SHALL PERFORM AS DESCRIBED BELOW. ALL FIRE ALARM EQUIPMENT/DEVICES USED SHALL BE BY APPROVED MANUFACTURERS AND SHALL BE LISTED FOR ITS INTENDED USE. THE MANUAL & AUTOMATIC SMOKE/HEAT/CO DETECTION AND SPRINKLER FIRE ALARM SYSTEM SHALL BE ADDRESSABLE BY MEANS OF A PRINTER. THE ENTIRE SYSTEM SHALL CONFORM WITH THE 2008 NYC CONSTRUCTION CODES.

1. **FIRE DETECTION SHALL BE ACCOMPLISHED BY:**
   - **A. ACTIVATION OF MANUAL PULL STATION**
   - **B. ACTIVATION OF WATER FLOW SWITCH IN THE SPRINKLER SYSTEM**
   - **C. ACTIVATION OF AN AREA SMOKE DETECTOR**
   - **D. ACTIVATION OF A DUCT MOUNTED SMOKE DETECTOR**
   - **E. ACTIVATION OF A HEAT COMBINATION DETECTOR**
2. **ACTIVATION OF A MANUAL PULL STATION SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL ALARM LED AT THE FIRE ALARM CONTROL PANEL (FACP) AND REMOTE ANNUNCIATOR (FARA).**
   - **B. VISUALLY ANNUNCIATE THE DEVICE IN ALARM AT THE FACP AND FARA.**
   - **C. RECORD/PRINT EVENTS ON THE FIRE ALARM PRINTER (FAPR).**
   - **D. CAUSE ALL VISUAL APPLIANCES (STROBES) TO FLASH.**
   - **E. CAUSE ALL AUDIBLE APPLIANCES (HORNS) TO SOUND TEMPORAL-3 CODE.**
   - **F. INITIATE TRANSMISSION OF A 'MANUAL PULL STATION ALARM' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**
3. **ACTIVATION OF AN AREA SMOKE DETECTOR, HEAT DETECTOR OR DUCT MOUNTED SMOKE DETECTOR SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL ALARM LED AT THE FACP AND FARA.**
   - **B. VISUALLY ANNUNCIATE THE DEVICE IN ALARM AT THE FACP AND FARA.**
   - **C. RECORD/PRINT EVENTS ON THE FAPR.**
   - **D. CAUSE ALL VISUAL APPLIANCES (STROBES) TO FLASH.**
   - **E. CAUSE ALL AUDIBLE APPLIANCES (HORNS) TO SOUND TEMPORAL-3 CODE.**
   - **F. SHUTDOWN ALL HVAC FANS INDICATED.**
   - **G. CLOSE ALL FIRE-SMOKE DAMPERS.**
   - **H. RELEASE ALL MAGNETICALLY HELD DOORS.**
   - **I. INITIATE TRANSMISSION OF A 'SMOKE ALARM' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**
4. **ACTIVATION OF A TOP OF STAIR SMOKE DETECTOR SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SAME ACTION AS AN AREA SMOKE, HEAT OR DUCT SMOKE DETECTOR ABOVE (3A – 3I ABOVE).**
   - **B. RELEASE RESPECTIVE SMOKE HATCH.**
5. **ACTIVATION OF THE KITCHEN FIRE EXTINGUISHING SYSTEM (ANSUL SYSTEM) SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL ALARM LED AT THE FACP AND FARA.**
   - **B. VISUALLY ANNUNCIATE THE DEVICE IN ALARM AT THE FACP AND FARA.**
   - **C. RECORD/PRINT EVENTS ON THE FAPR.**
   - **D. CAUSE ALL VISUAL APPLIANCES (STROBES) TO FLASH.**
   - **E. CAUSE ALL AUDIBLE APPLIANCES (HORNS) TO SOUND TEMPORAL-3 CODE.**
   - **F. INITIATE TRANSMISSION OF A 'SMOKE ALARM' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**
6. **ACTIVATION OF A WATER FLOW SENSOR ALARM SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL ALARM LED AT THE FACP AND FARA.**
   - **B. VISUALLY ANNUNCIATE THE DEVICE IN ALARM AT THE FACP AND FARA.**
   - **C. RECORD/PRINT EVENTS ON THE FAPR.**
   - **D. CAUSE ALL VISUAL APPLIANCES (STROBES) TO FLASH.**
   - **E. CAUSE ALL AUDIBLE APPLIANCES (HORNS) TO SOUND TEMPORAL-3 CODE.**
   - **F. SHUTDOWN ALL HVAC FANS INDICATED.**
   - **G. CLOSER ALL FIRE SMOKE DAMPERS.**
   - **H. INITIATE TRANSMISSION OF A 'SPRINKLER ALARM' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**
7. **ACTIVATION OF A SPRINKLER TAMPER SWITCH SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL SUPERVISORY LED AT THE FACP AND FARA.**
   - **B. VISUALLY ANNUNCIATE THE DEVICE TYPE AT THE FACP AND FARA.**
   - **C. RECORD/PRINT EVENTS ON THE FAPR.**
   - **D. INITIATE TRANSMISSION OF A 'SUPERVISORY' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**
8. **ACTIVATION OF A CARBON MONOXIDE DETECTOR SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL SUPERVISORY LED AT THE FACP AND FARA.**
   - **B. VISUALLY ANNUNCIATE THE DEVICE TYPE AT THE FACP AND FARA.**
   - **C. RECORD/PRINT EVENTS ON THE FAPR.**
   - **D. ACTIVATE TEMPORAL-4 SIGNAL AT C.O. DETECTOR INTEGRAL HORN.**
   - **E. INITIATE ELECTRICAL EQUIPMENT PANEL SHUTDOWN IN BOILER ROOM.**
   - **F. INITIATE TRANSMISSION OF A 'C.O. ALARM' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**
9. **FIRE-SMOKE DAMPER FAILURE TO OPEN SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
   - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL SUPERVISORY LED AT THE FACP AND FARA.**
   - **B. VISUALLY ANNUNCIATE THE DEVICE TYPE AT THE FACP AND FARA.**
   - **C. RECORD/PRINT EVENTS ON THE FAPR.**
   - **D. INITIATE TRANSMISSION OF A 'SUPERVISORY' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**
10. **FACP AC POWER FAILURE, LOW BATTERY, OPEN CIRCUIT, GROUND FAULT OR NOTIFICATION OF APPLIANCE SHORT CIRCUIT SHALL IMMEDIATELY CAUSE THE FOLLOWING:**
    - **A. SOUND A PULSING AUDIBLE AND FLASH THE GENERAL TROUBLE LED AT THE FACP AND FARA.**
    - **B. VISUALLY ANNUNCIATE THE DEVICE TYPE AT THE FACP AND FARA.**
    - **C. RECORD/PRINT EVENTS ON THE FAPR.**
    - **D. INITIATE TRANSMISSION OF A 'TROUBLE' SIGNAL VIA INTERNAL DIALER TO A CENTRAL STATION.**

CAPITAL PROJECTS DIVISION
DESIGN DEPARTMENT
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NEW YORK CITY HOUSING AUTHORITY

PROGRAM UNIT:
PROJECT MANAGEMENT TEAM - 3

BY DATE	Rev. No.	SUBMISSION

Development:
ROOSEVELT I HOUSES
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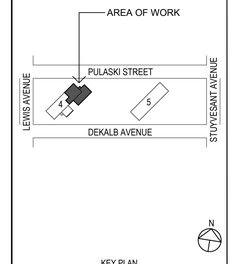
Building No: 4 ORACLE No: 11963
Borough of: BROOKLYN



KEY PLAN

Zone No.: R6, C2-4 Zoning Map No.: 13B
Block No.: 1598 Lot No.: 1
E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

Contract No.: GR00000000

Drawing Title:
FIRE ALARM SYSTEM MATRIX & NOTES

Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 08-25-21
Scale: AS NOTED

Drawing No.:
FA701.00

Sheet: 48 OF

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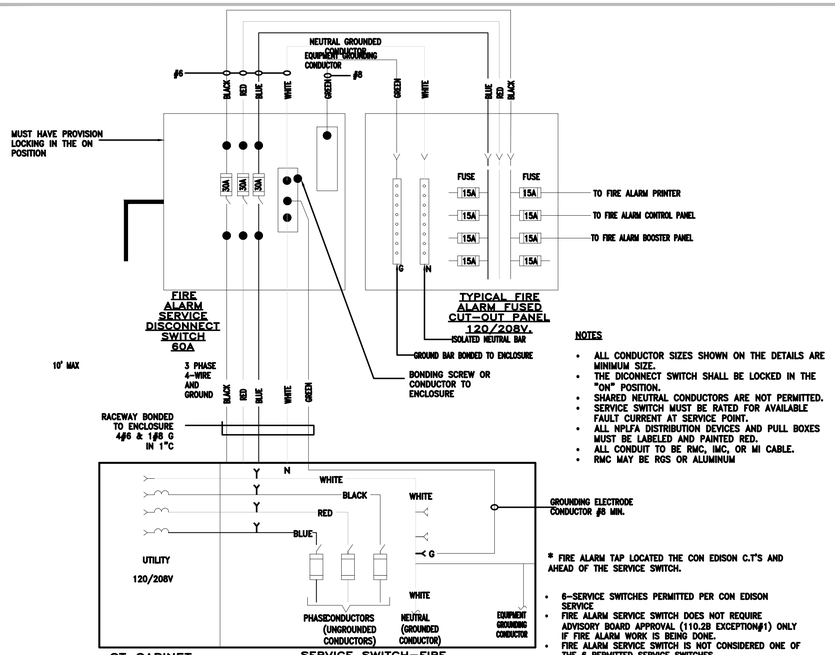


NOTES

- ALL CONDUCTOR SIZES SHOWN ON THE DETAILS ARE MINIMUM SIZE.
- THE DICONNECT SWITCH SHALL BE LOCKED IN THE "ON" POSITION.
- SHARED NEUTRAL CONDUCTORS ARE NOT PERMITTED.
- SERVICE SWITCH MUST BE RATED FOR AVAILABLE FAULT CURRENT AT SERVICE POINT.
- ALL NPLFA DISTRIBUTION DEVICES AND PULL BOXES MUST BE LABELED AND PAINTED RED.
- ALL CONDUIT TO BE RMC, IMC, OR MI CABLE.
- RMC MAY BE RGS OR ALUMINUM

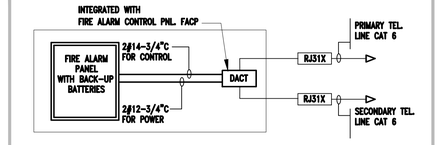
* FIRE ALARM TAP LOCATED THE CON EDISON C.T'S AND AHEAD OF THE SERVICE SWITCH.

- 6-SERVICE SWITCHES PERMITTED PER CON EDISON SERVICE
- FIRE ALARM SERVICE SWITCH DOES NOT REQUIRE ADVISORY BOARD APPROVAL (110.2B EXCEPTION#1) ONLY IF FIRE ALARM WORK IS BEING DONE.
- FIRE ALARM SERVICE SWITCH IS NOT CONSIDERED ONE OF THE 6 PERMITTED SERVICE SWITCHES.

FIRE ALARM DISCONNECT SWITCH

NOT TO SCALE

DETAIL 1

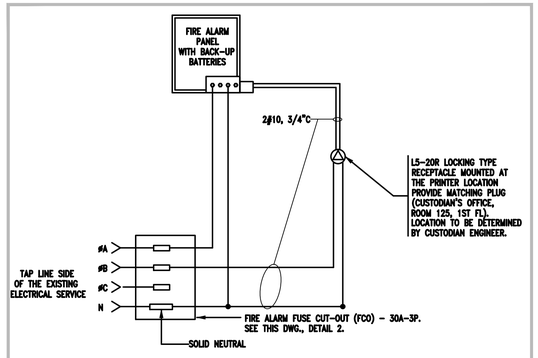


TYPICAL DIGITAL COMMUNICATION SYSTEM RISER DIAGRAM FOR MONITORING

N.T.S.

1. PROVIDE ALL REQUIRED JUNCTION BOXES, CONDUITS, WIRES & DEVICES AS REQUIRED FOR PROPER OPERATION OF SYSTEM
2. PROVIDE 2#12 IN 3/4"C FOR POWER TO THE "DACT" FROM THE "FACP".

DETAIL 2

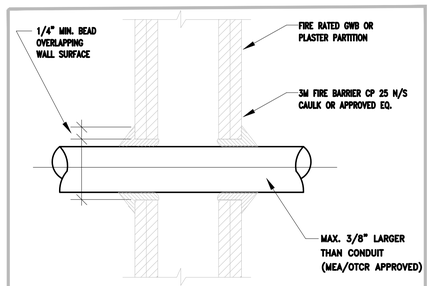


PRINTER POWER CONNECTION SCHEMATIC DIAGRAM

N.T.S.

1. FUSED CUT-OUT SHALL PROVIDE POWER TO FACP, FAPR, AND FARA.
2. FOR EXACT LOCATION OF FUSED CUT-OUT. SEE ELECTRICAL ROOM ON BASEMENT FLOOR, DWG. FA101.00.

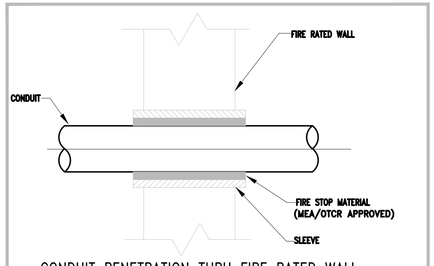
DETAIL 3



CONDUIT PENETRATION IN FIRE RATED GWB OR PLASTER PARTITION

N.T.S.

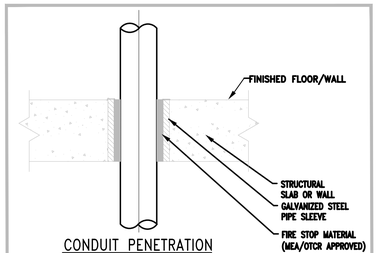
DETAIL 4



CONDUIT PENETRATION THRU FIRE RATED WALL

N.T.S.

DETAIL 5



CONDUIT PENETRATION FIRE RATED WALL/SLAB

N.T.S.

DETAIL 6

NEW YORK CITY HOUSING AUTHORITY
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PROGRAM UNIT:
PROJECT MANAGEMENT TEAM - 3

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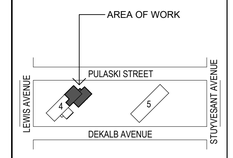

KEY PLAN

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Block No.: 1598 Lot No.: 1
E.D.P. No.:
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Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 08-25-21
Scale: AS NOTED

Drawing No.: FA702.00

Sheet: 49 OF

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Interior Lighting and Exit Signs Power Calculation

Section 1:Energy Analysis - Tabular

Code chapter and/or standard used for design. NYC ECC 2020 - Chapter C4
Project Occupancy: **BBO - ROOSEVELT (360 PULASKI AVE.)**
Alteration - Lighting Fixture Installation
Climate zone: 4A

NYCECC Citation	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation (Drawings)
C405.2.1.1	**Interior lighting controls**	Interior lighting controls include manual, vacancy, and occupant sensor controls.	Interior lighting controls have been provided in accordance with C405.2.1.1and C405.2.2.2	Lighting systems shall be provided with controls as required in Sections C405.2.1.1and C405.2.2.2	See drawings: T001.00, E001.00, E101.00, E703.00
C405.2.2.3	**Daylight zone control**	Day light zone control for spaces with vertical fenestration	Manual Daylight Controls has been provided in accordance with C405.2.2.3.1	Day light zone control as per C405.2.2.3.1 Manual Daylight Control	See drawings: T001.00, E001.00, E101.00, E703.00
C405.4	**Exit Signs**	Exit Sign Replacement BBO - ROOSEVELT (360 PULASKI AVE.)	Watts per side of Internally illuminated exit signs are less than 5 watts in accordance with C405.4	Internally illuminated exit signs shall not exceed 5 watts per side as per C405.4	See drawings: T001.00, E001.00, E101.00, E703.00,
C405.5.2	**Interior lighting power**	Lighting Power Density of School building: BBO - ROOSEVELT (360 PULASKI AVE.)	Lighting Power Density (LPD): 0.896 Watts/ft²	The total interior lighting power (Watts) is the sum of interior lighting for all areas of the building covered in this permit. **Lighting Power Density (LPD) allowance: 1.2Watts/ft²**	See drawings: T001.00, E001.00, E101.00, E703.00

PASSES **0.90 Watts/ft² < 1.2 Watts/ft²**

Section 2: Interior Lighting and Power Calculation

Building	A			B	C	D	E	F	G
	Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast		Lamp Watts	Ballast Factor	Lamps/ Fixture	#of Fixtures	Fixture Watt.	(C X D) Total Watt.	AREA	(E/F) LPD (Watts/Sq.ft)
BBO - ROOSEVELT (360 PULASKI AVE.)	L1	LOUIS POULSEN, LP CIRCLE 10.5"- SURFACE MOUNT	30	0.88	1	54	26	1404	5310	**0.90**
	L2	LOUIS POULSEN, LP CIRCLE 18.0"- SURFACE MOUNT	25	0.88	1	28	22	616		
	L3	LOUIS POULSEN, LP ROUND 17.2"- SUSPENDED	54	0.88	2	5	95	475		
	L4	LOUIS POULSEN, LP ROUND 26.7"- SUSPENDED	54	0.88	4	6	190	1140		
	L5	LITHONIA STL2 SURFACE/SUSPENDED	39	0.88	2	6	69	414		
	L6	LITHONIA STL4 SURFACE/SUSPENDED	45.2	0.88	4	3	159	477		
	L7	GARDCO SOFTVIEW SVPG-266L-1200-WW-G2-X/SURFA	52	0.88	1	5	46	230		

Section 3: Exit Signage Power Calculation

School Building	A			B	C	D	E	F	
	Exit Sign Fixture ID: Description		Lamp Watts	Ballast Factor	Lamps/ Fixture	#of Fixtures	Fixture Watt.	Faces per Fixture	(C X D) Total Watts.	Watts per side of Exit sign Fixture =D/E
BBO -	X1	MULE LIGHTING NYELX	5	1	1	12	5.0	1	60	5

Section 3:Compliance Statement:

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2014 New York City Energy Conservation Code requirement and comply with mandatory requirements in the Requirements Checklist.

NEW YORK CITY ENERGY CONSERVATION CODE COMPLIANCE STATEMENT

THE PROPOSED PROJECT COMPLIES TO THE FOLLOWING GUIDELINES, PROVISIONS, RULES, AND REGULATIONS:

1. 2020 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC) CONTRACTOR TO COORDINATE INSPECTIONS WITH THE PROGRESS INSPECTION AGENCY AND SCA PROJECT OFFICER FOR COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC) SECTION C408.3.1– FUNCTIONAL TESTING

CONTRACTOR TO COORDINATE INSPECTIONS WITH THE PROGRESS INSPECTION AGENCY AND SCA PROJECT OFFICER FOR COMPLIANCE WITH THE 2016 NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC) SECTION C408.3.1– FUNCTIONAL TESTING

PROFESSIONAL STATEMENT OF COMPLIANCE BY THE DESIGN PROFESSIONAL:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE". FURTHERMORE, THE ABOVE STATEMENT IS SUBMITTED OR INCLUDED IN THE PW–1 APPLICATION.

THE DETERMINATION THAT THE PROPOSED INTERIOR LIGHTING FIXTURE REPLACEMENT MEETS NYCECC IS BASED ON THE ATTACHED ENERGY ANALYSIS AND IS IN COMPLIANCE WITH MINIMUM ARTIFICIAL LIGHTING REQUIREMENTS AS STATED ON BC 1205.3

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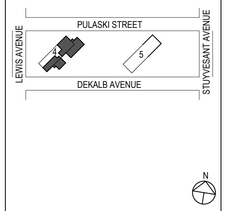

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E.D.P. No.:
Development No.: 227

Contract Title:
BROOKLYN PROPERTY MANAGEMENT OFFICES

DOB NOW Job No.: B00606268

Contract No.: GR1508568

Drawing Title:
ELECTRICAL LIGHTING ENERGY ANALYSIS

Seal & Signature:

Drawn By: JOSHUA CHUKWUMA
Checked By: ALFRED AZER, P.E.
Date: 10/22/2021
Scale:
Drawing No.:
EN002.00

Sheet: 09 OF 62

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