



Vincent Sapienza P. E.
Commissioner

Anastasios Georgelis, P.E.
Deputy Commissioner

59-17 Junction Boulevard
Flushing, NY 11373

connections@dep.nyc.gov

11/23/2018

Rodkin Cardinale P.C.
224 West 29th Street, 4th Fl
New York, NY 10001

Re: County: Queens Block: 3395 Lot: 16
Location: 1881 Starr St
Approval No (#): 18076470 Device(s): 2

Dear Applicant:

Enclosed is the plan for the installation of Backflow Prevention Assembly(s) hereinafter (BFPA) at the above identified location which is reviewed and approved by this office and subject to the following conditions of approval:

A. Proposed BFPA is constructed in strict conformity with the implied plans this day or approved amendment:

1. For existing water services, the BFPA shall be installed within thirty (30) days of the due date of this approval letter.
2. For new developments, the BFPA shall be installed with the setting up of the utility water system, normally downstream of the water meter at the property.

B. Any unauthorized cross-connection made upstream of the BFPA shall render this approval void. It is unlawful to remove/swap the BFPA unless DEP is notified. Approved plans are subject to revocation and become immediately revoked if the property owner/customer should so change the type of cross-connection or degree of hazard associated with the water system.

C. The following procedures shall be taken within thirty (30) days of the BFPA installation(s):

1. The installation shall be tasked by a NYC Licensed Master Plumber who ensures that the BFPA is installed in accordance with DOB plumbing code.
2. The BFPA setting up, along with all related conditions, shall be inspected by a NYS PE/RA who certifies that the installation is in accordance with this approved plan (to avoid unnecessary expenses).
3. The BFPA shall be tested immediately after installation and at least once a year thereafter, by a NYS Certified Tester, who is employed by a NYC Licensed Master Plumber.
4. NYC Gen215B Form shall be completed (Initial Test) and mailed to this office, it is available at: http://www.nyc.gov/html/dep/pdf/water_sewer/10.pdf
5. For the most up-to-date information, refer to: "NYC CCC Program Handbook", the latest version for designing BFPA installations: http://www.nyc.gov/html/dep/html/forms_and_permits/cross.shtml#handbook

D. Annual test of BFPA shall be performed as follows:

1. BFPA shall be tested at once annually by a NYS Certified Tester, in accordance with §20-04(e). Gen215B Form shall be completed (Annual Test) and mailed to this office within 30 days of test date.
2. Defects in any tested assembly shall be repaired/replaced within thirty (30) days by same size, type, configuration, installation orientation, make and model # (equivalent/substitute) of Lead-Free type from currently USC approved/listed assemblies, and repair/replacement shall be followed by a retest. Retest results shall be submitted to this office with description of repairs, parts and materials used.
3. Failure to submit an annual test report for each approved BFPA is a violation of §20-04(e) and will result in the issuance of a Notice of Violation returnable to the Environmental Control Board. This may result in the imposition of a civil penalty of up to \$1,000.
4. Customer will not receive future reminders of the required BFPA Annual Test Report.

E. This approved plans is valid for two (2) years from the due date of this approval letter. Please be advised that in case of change in size, type, configuration, orientation and/or location of the BFPA or the size of the water meter, you shall resubmit rectified plans (or as-built) for approval of the installation of BFPA. In case of any inquiries concerning this approval, please contact Cross Connection Control Unit at 718-595-5463 for technical assistance.

Very truly yours, •

Muhammad E. Hossain, Ph.D., P.E.
Deputy Chief, CCC Unit

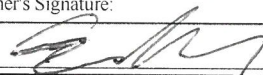
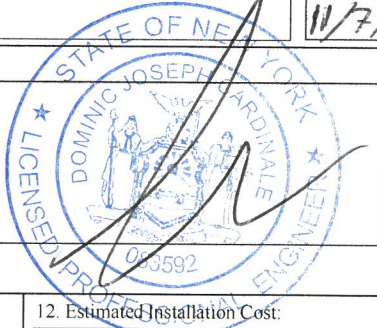
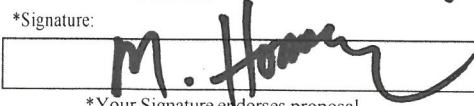
cc: Eric Moran
810 7th Av 10th FL
New York, NY 10019





DEPARTMENT OF ENVIRONMENTAL PROTECTION - BUREAU OF WATER AND SEWER OPERATIONS
APPLICATION FOR APPROVAL OF BACKFLOW PREVENTION ASSEMBLIES
Valid for Two (2) Years from the Approval Date
ATTACH FEE TO FORM: \$350 PER WATER SERVICE CONNECTION (Check or Money Order made payable to NYC Water Board)
PRINT OR TYPE ALL EXCEPT SIGNATURES

Please complete items 0 through 13

1. Name of Facility: Starr Residence		0. Block # 3395	0a. Lot # 16	FOR DEPARTMENT USE ONLY	
3. Exact Location of Facility; i.e., Street Address: 1881 Starr Street		2. County: Queens	0b. Tent. Lot	Approval # 18076470 APPROVED DEP Cross-Connection Control Unit Reviewed By: V. Curinnoi Date: NOV 21 2018	
3a. City Queens	3b. State NY	3c. ZIP C. 11385	4. Facility Contact Person Dominic Cardinale P.E.		4a. Phone Number(s) 212-239-1892ext. 114
5. Location of Assembly(s): (Attach additional sheets if required) Cellar water meter room. See drawing BFP-1 for details.				6. Manufacturer, Model No., Size and Type of BFP Assembly(s): 4" Wilkins 375 OS&Y-RPZ 6" Wilkins 350DA-DCDA	
5a. # of Fire Services: 1	5b. # of Domestic Services: 1	5c. # of Combined Services: 0	5d. Total # of Services: 2	5e. Total # of Buildings 1	
7. Name, Title & Phone No. of Property Owner: Eric Moran, 176 Woodward Ave, LLC; Tel: (212) 265-6600 Full Mailing Address: 810 7th Ave., 10th Floor, NY, NY 10019 Owner's Signature:  Date: 11/7/18				8. Type of Submission: ☐ As-Built ☒ Initial Assembly Installation ☐ Replace Existing Device	
9. Print Name and Full Mailing Address of Design Engineer or Architect: Dominic Cardinale P.E. Rodkin Cardinale P.C. 224 West 29th Street, 4th floor New York, NY 10001 Original Ink Signature & Seal Required on both copies. 				8a. ☒ New Service ☐ Exist. Service 8b. ☒ New Building ☐ New Extension ☐ Major Renovation ☐ Existing Building ☐ Other 10. NYS License #: 083592 ☒ PE ☐ RA 10a. Telephone #: (212)239-1892 ext.114 10b. Date: 10c. E-MAIL: dcardinale@rcmep.com	
11. Water System Pressure (psi) at Point of Connection: Max.: 60 Avg.: 58 Min.: 56		12. Estimated Installation Cost: \$10,000			
13. Degree of Health Hazard: ☒ Hazardous ☐ Non-Hazardous with Hazardous Fixtures ☐ Aesthetically Objectionable List of Processes or reasons which lead to degree of assessed health hazard checked: The building will have a Commercial space and multiple coin operated Laundry washing machines.					
14. Public Water Supplier Name: NYC-DEP Mailing Address: NYC-DEP Bureau of Water & Sewer Operations Cross-Connection Control Unit 3rd Floor Low Rise 59-17 Junction Boulevard Flushing, NY 11373 Telephone No.: (718) 595-5463		FOR DEPARTMENT USE ONLY Name of DEP's Designated Representative: Muhammad E. Hossain, Ph.D., P.E. Cross-Connection Control Review Unit The degree of hazard shown in item (13) above is in conformity with the latest DEP Cross- Connection Control Risk Assessment *Signature:  Date: NOV 23 2018 *Your Signature endorses proposal			

NOTE: Two ORIGINAL copies of this form, two copies of all plans, engineering reports and supporting materials must be submitted to:
New York City, Department of Environmental Protection, Bureau of Water & Sewer Operations,
Cross-Connection Control Unit, 3rd Floor Low-Rise, 59-17 Junction Boulevard, Flushing, NY 11373.

LEGEND:

- F.D. FLOOR DRAIN
- PIPE DOWN
- CENTER LINE
- NEW 4" DOMESTIC WATER SERVICE CONTROL VALVE (OS&Y TYPE ONLY)
- NEW 4" METER INLET CONTROL VALVE (GATE TYPE ONLY)
- NEW 4" WATER METER
- ELECTROMAGNETIC METER ELSTER MODEL EVO Q4, NYC APPROVED
- NEW 4" REDUCED PRESSURE ZONE PRINCIPAL ASSEMBLY WILKINS 375 OS&Y, LEAD FREE
- NEW 2" CAPPED TEST TEE
- NEW 4" METER OUTLET CONTROL VALVE (GATE TYPE ONLY)
- NEW 6" FIRE WATER SERVICE CONTROL VALVE (OS&Y TYPE ONLY)
- NEW 6" DOUBLE CHECK DETECTOR ASSEMBLY WILKINS 350DA WITH BY-PASS BFP AND METER WITH REMOTE READING DEVICE, NYC APPROVED
- PROVIDE 30" CLEARANCE SPACE IN FRONT OF DEVICES
- PROVIDE 36" CLEARANCE SPACE AROUND SPRINKLER BOOSTER PUMP
- TAMPER SWITCH
- PROPERTY LINE
- EXISTING WATER MAIN
- NEW WATER PIPING
- CONNECT NEW PIPE TO EXISTING
- WATER SERVICE CURB VALVE

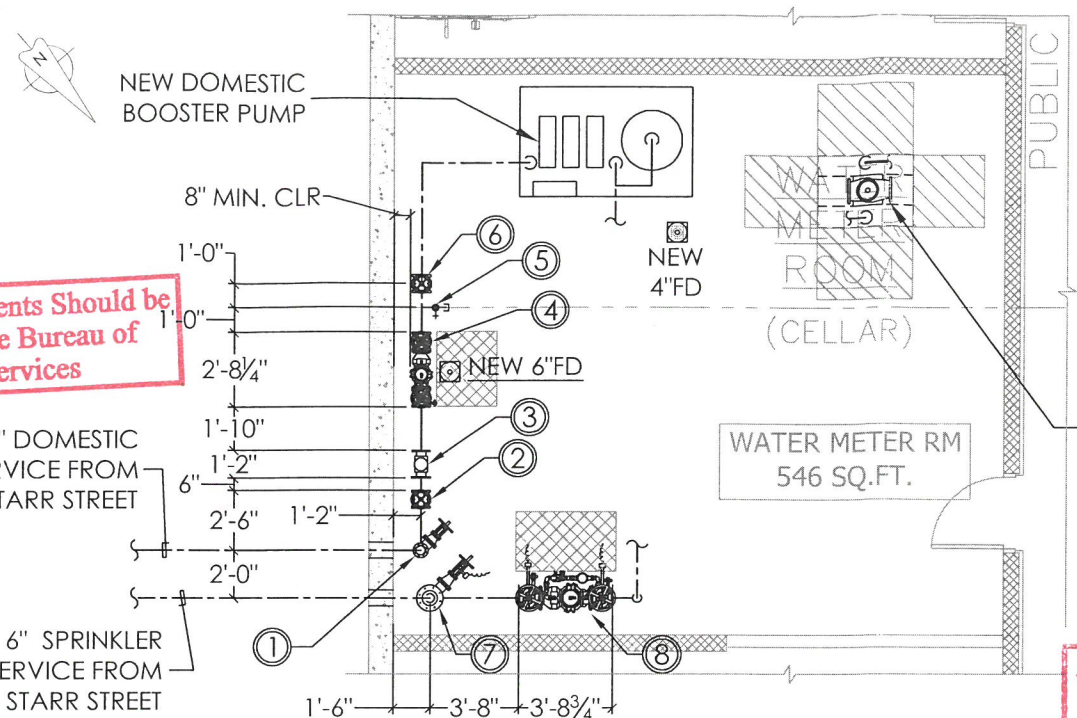
NOTES:

1. PROVIDE LABEL ON WATER PIPING BETWEEN POINTS OF ENTRY AND BOTH BACKFLOW PREVENTERS AS FOLLOWS: "FEED TO BACKFLOW PREVENTER, DO NOT TAP OR CONNECT TO THIS LINE" LABEL SHALL BE 1" HIGH RED LETTERS ON WHITE BACKGROUND.
2. METER SETTINGS INCLUDING INLET AND OUTLET CONTROL VALVE CONNECTION SHALL BE MADE BY COUPLING, UNION, FLANGE UNION OR APPROVED COMPRESSION FITTING AND BORED FOR SEALING WITH HOLES NOT LESS THEN 3/32" IN DIAMETER.
3. REFER TO RCNY TITLE 15 CHAPTER 20 FOR METER AND RPZ INSTALLATION REQUIREMENTS.

FIRE SYSTEM CHARACTERISTICS:

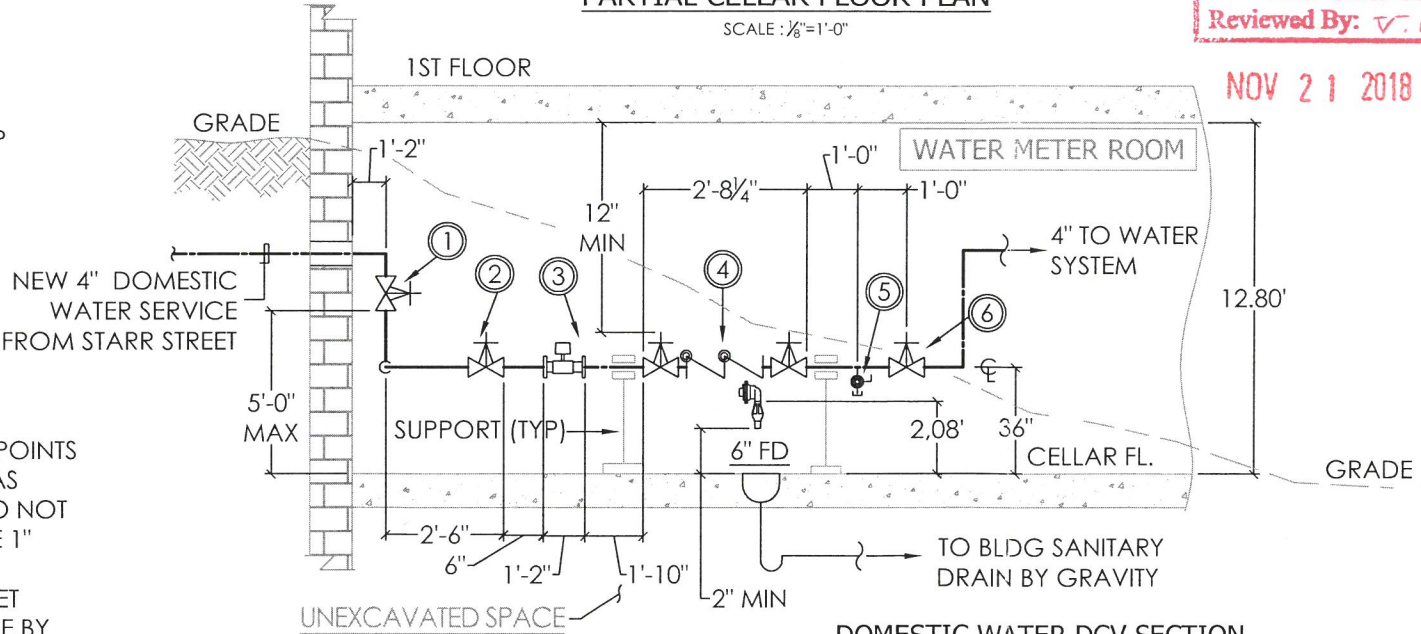
1. NO CHEMICALS WILL BE USED IN THE NEW FIRE SYSTEMS;
2. THE FIRE SIAMESE CONNECTION WILL BE LOCATED MORE THAN 700 FEET OF AN UNCERTIFIED WATER SUPPLY;
3. FIRE AND DOMESTIC WATER RISERS WILL NOT CROSS CONNECT AT ANY POINT ON THE HOUSE SIDE OF THE BACKFLOW PREVENTING DEVICES;
4. NO FIRE WELLS WILL BE INSTALLED IN THE FACILITY.
- *IF ANY OF THE ABOVE CONDITIONS CHANGE THE APPROPRIATE BACK FLOW PREVENTION DEVICE WILL BE INSTALLED ON THE FIRE WATER SERVICE.

Metering Requirements Should be obtained from the Bureau of Customer Services



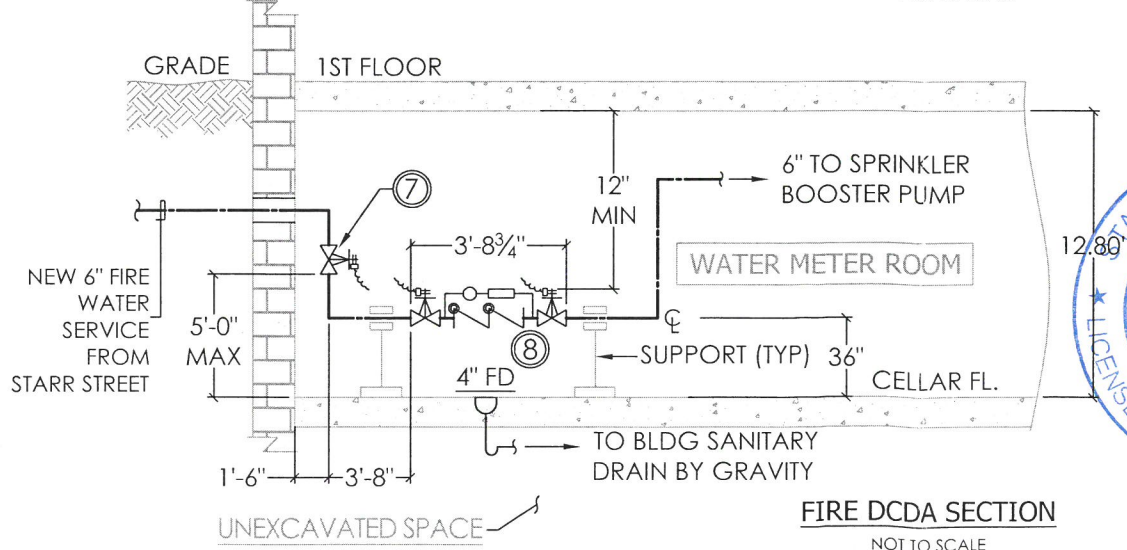
PARTIAL CELLAR FLOOR PLAN

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



DOMESTIC WATER DCV SECTION

NOT TO SCALE



FIRE DCDA SECTION

NOT TO SCALE

RPZ FLOOD CALCULATION:

CELLAR FLOOR AREA: = 33,055 SQ.FT.
4" RPZ ZONE PRESSURE: = 60 PSI
REL. VALVE DISCHARGE RATE: = 330 GPM
REL. VALVE HIGHT: = 2.08'(BY DESIGN)
TOTAL VOLUME = 68,754 CU.FT. (514,283 GAL)
514,283 GALLONS by 330 GPM = 25.97 HOURS
NEEDED TO SUBMERGE THE UNIT.
LEAK DETECTION WITH HIGH WATER ALARM MONITORED 24HR/DAY-7DAYS/WK WILL BE PROVIDED.

This APPROVAL for Back flow Device ONLY NOT for Water Service Connection

Approval # 18076470
APPROVED
DEP Cross-Connection Control Unit
Reviewed By: V. Curinnoi Date:

NOV 21 2018

BACKFLOW PREVENTER DEVICE INSTALLATION NOTES:

1. THE CONTRACTOR SHALL INSTALL THE PIPING, REDUCED PRESSURE ZONE BACKFLOW PREVENTER DEVICE (RPZ), VALVES, ETC. IN STRICT ACCORDANCE WITH THE APPROVED DRAWINGS. NO DEVIATIONS WILL BE ACCEPTED OR CERTIFIED.
2. ADEQUATE SUPPORT FOR PIPING FROM THE BFP DEVICE SHALL BE PROVIDED.
3. FOR ALL INSTALLATIONS THE PIPING FROM THE BFP DEVICE TO THE POINT OF ENTRY MUST BE LABELED WITH THE FOLLOWING WARNING: "FEED TO BACKFLOW PREVENTER. DO NOT TAP OR CONNECT TO THIS LINE. LETTERING SHALL BE ONE-HALF INCH HEIGHT FOR 3/4" AND ONE INCH PIPING AND ONE INCH HEIGHT FOR PIPING OVER ONE INCH DIAMETER. LETTERING SHALL BE RED LETTERS ON A WHITE BACKGROUND FOR FIRE LINES AND YELLOW LETTERS ON A BLACK BACKGROUND FOR DOMESTIC WATER LINES. LABELING SHALL BE ATTACHED WITH A WATERPROOF, PERMANENT ADHESIVE. LABELING SHALL BE ATTACHED AT 5 FOOT INTERVALS AND ON BOTH SIDES OF ALL WALL AND FLOOR PENETRATIONS.
4. AFTER INSTALLATION OF BFP DEVICE, THE DEVICE MUST BE TESTED BY A CERTIFIED TESTER. TWO COMPLETED NYC DOH GEN 215B FORMS SIGNED BY THE CERTIFIED TESTER AND SIGNED AND SEALED BY THE LICENSED PLUMBER SHALL BE FORWARDED TO THE PROFESSIONAL ENGINEER.
5. IT IS UNLAWFUL TO REMOVE OR BYPASS THE BFP DEVICE FOR ANY REASON UNLESS NYC DEP BUREAU OF WATER SUPPLY AND WASTE WATER COLLECTION IS NOTIFIED.
6. THIS DEVICE IS TO BE TESTED ANNUALLY AND DISASSEMBLED AND OVERHAULED EVERY FIVE YEARS AS REQUIRED BY THE NYS DOH. A NYS DOH GEN 2158 FORM SHALL BE FORWARDED TO THE NYC DEP AFTER EACH INSPECTION AND TEST.
7. THE INSTALLATION SHALL COMPLY IN ALL RESPECTS WITH NYS DOH REQUIREMENTS EXCEPT AS MODIFIED OR UPGRADED BY THE NYC DEP
8. ROOM WHERE BFP DEVICE IS LOCATED SHALL BE HEATED AND ADEQUATE LIGHTING IS TO BE PROVIDED.
9. THE BACKFLOW PREVENTER DEVICE SHALL BE AS INDICATED ON DRAWINGS. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
10. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE.
11. ALL WORK TO BE FILED WITH THE NYC DOB AND APPLICATION NUMBER REFERENCED ON NYS DOH GEN 215B FORM.

4-STORY

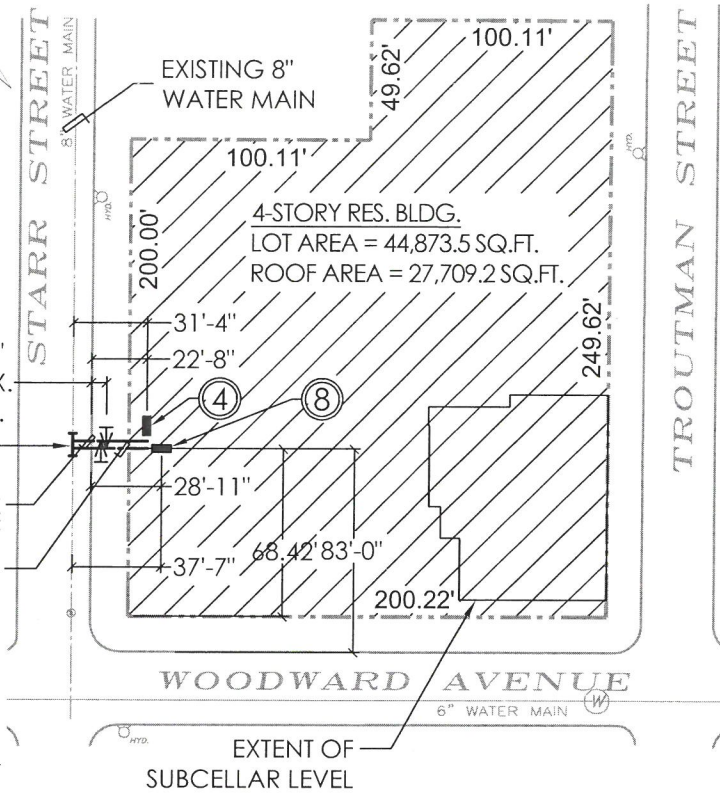
BLOCK: 3395
LOT: 16
ZONING MAP No.: 13b
ZONING DISTRICT: R6B / C2-3

SKYLINE ENGINEERING, PLLC
224W 29th Street, New York, N.Y. 10001
Tel. 212-239-1892; Fax. 212-268-6467
CONSULTING ENGINEERS
www.radkincardinale.com

STARR STREET RESIDENCE
1881 STARR STREET,
QUEENS, NY 11385

DWG. TITLE RPZ AND DDCVA DETAILS
SCALE: AS NOTED
DATE: 11-12-2018

DWG. NO. BFP-1



PLOT PLAN

NOT TO SCALE

