



Public Facilities Committee Agenda

City of Newton In City Council

Wednesday, February 3, 2021

The Public Facilities Committee will hold this meeting as a virtual meeting on Wednesday, February 3, 2021 at 7:00 pm. To view this meeting using Zoom use this link: <https://us02web.zoom.us/j/88116997250> or call 1-646-558-8656 and use the following Meeting ID: 881 1699 7250

Item Scheduled for Discussion:

#48-21 Appointment of Marc Kaufman to the Design Review Committee
PRESIDENT ALBRIGHT appointing Marc Kaufman, 553 Walnut Street, Newton, to the DESIGN REVIEW COMMITTEE as the Community Representative for the duration of the NewCAL project. (60 day: 04/02/21)

Public Hearing

#47-21 Request for a main drain extension at 63 Moody Street
ABBAS AMIRI, 80 Doublet Hill Road, Weston, petitioning for a main drain extension from the end of the line at the existing manhole near #47 Moody Street in a northwesterly direction 166'± to a proposed manhole in front of #63 Moody Street. The proposed manhole will be installed at the end of the proposed extension to allow the overflow connection to the city's main. (Ward 7)
PETITIONER TO PAY ENTIRE COST

#396-20 Request for updates on HVAC and ventilation at Newton Public Schools
The President of the Council, on behalf of the City Council, requesting an update to the Public Facilities Committee from Commissioner Morse on current work on HVAC and air quality in the Newton Public Schools at each meeting of the Public Facilities Committee this fall until work is complete.
Public Facilities Held 6-0 on 12/17/20

Respectfully submitted,
Alison M. Leary, Chair

The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require assistance. If you need a reasonable accommodation, please contact the city of Newton's ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: jfairley@newtonma.gov or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

Application Form

Profile

Marc D Kaufman
First Name Middle Initial Last Name

[Redacted]
Email Address

553 Walnut Street
Home Address Suite or Apt

Newton MA 02460
City State Postal Code

What Ward do you live in?

[X] Ward 2

[Redacted] [Redacted]
Primary Phone Alternate Phone

Digital Design Group President
Employer Job Title

Which Boards would you like to apply for?

Design Review Committee: Submitted

Interests & Experiences

Please tell us about yourself and why you want to serve.

Why are you interested in serving on a board or commission?

Excited about the prospects of a new Senior Center (NewCAL).

MDK_Resume_2021.pdf
Upload a Resume

CITY CLERK
NEWTON, MA 02459

2021 JAN 25 PM 4: 13

RECEIVED

RESUMÉ

Marc D. Kaufman

Winter 2021

553 WALNUT STREET, NEWTON, MA 02460-2408

[REDACTED] | WWW.DDGDESIGN.COM

**Employment
1985–Present****President and Founder, Digital Design Group (DDG)**

Digital Design Group was founded in 1985 as Boston's first all digital graphic design and production studio. The firm specializes in the communication of complex editorial matter and business information online and in print. The company publishes books, journals, magazines, and annual reports, and develops public information projects, marketing collateral, marketing brochures, and annual reports. The company designs and maintains websites for businesses, non-profit organizations, educational institutions, and NGOs. DDG facilitates a smooth transition from web-to-print and print-to-web. We develop social media strategies for clients and prepare social media content in all digital formats.

Representative projects:

- Designed complete or portions of websites for the Massachusetts Technology Leadership Council, Hyaluron Corp., Niton Corp., Charlesgate Realty Group, Beaumont Financial Partners, Cytel Software Corp., NewSouth, Meritage, Special-Value, Fonekey, BFP Capital Management, World Health Organization (WHO), International Nutrition Foundation, UNICEF, Harvard University, Uniform Services University, Annisquam Yacht Club (partial list).
- Design websites for academic research including informational, educational and data collection websites. Develop back-end tools to collect and analyze data.
- Designed, produced and distributed an eight part international education program for UNICEF on women's and children's health. Elements included posters, brochures, and fact sheets in multiple languages.
- Designed, produced and distributed a 10-book series for the World Health Organization's Commission on Macroeconomics and Health, chaired by Columbia University economist Jeffrey Sachs. Produce media kits for WHO and handle global distribution for press conferences on five continents. All materials produced in multiple languages.
- Designed, produced and distributed a global HIV/AIDS education program for UNICEF (in three languages).
- Design books, newsletters, reports, conference proceedings, and fact sheets for web distribution only. Design the websites to manage electronic distribution.
- Designed a nine-part national training program on Pollution Prevention technologies for U-Mass and the US Environmental Protection Agency, and published on CD-ROM and the internet.

In addition, DDG served as communications strategy and policy advisor to the World Health Organization, UNICEF, Harvard University, United Nations University, International Nutrition Foundation, and Uniformed Services University (representative sample).

As design director, I have won American Graphic Design Awards for more than 15 years, along with American Web Design Awards.

Continued

1981–1985
President and Founder, Kaufman Communications Company

This company specialized in strategic planning for small companies and non-profit organizations, and in publication development, design and production. Managed strategic planning projects for Mass-Save, Trustees of Reservations, and Manomet Bird Observatory. Managed a state-wide education program for Mass-Save, including the writing, illustration and design of visual maps, information sheets, training materials and brochures on residential and commercial energy conservation.

1978–1981
Barry Lawson Associates

Senior project manager at this firm specializing in training, gaming and simulation, and group interactive problem solving. Managed projects ranging from conflict resolution in hazardous waste siting decisions to implementing water conservation programs in drought stricken areas.

1974–1978
Executive Office of Environmental Affairs

Public information officer for the executive office. Staff member with the Coastal Zone Management program. Speech writer for the Governor, Lt. Governor, and cabinet secretaries (energy and environment)

Education

B.A., University of Wisconsin–Madison (1970)
 (Journalism and Mass Communications)
 M.S., University of Wisconsin–Madison (1974)
 (Environmental and Energy Studies)

Community Service
Selected Community Activities

Member DPW Working Group for Newtonville's Walnut Street Improvements (current)
 Elected member, Newtonville Area Council for three 2-year terms (2013–2018).
 President 2014–2015
 Member, Design Review Committee, City of Newton (Newton North HS)
 Parent co-chair of the School Councils at Newton North, F. A. Day and Cabot Schools
 PTSO co-chair, Educational Excellence Campaign, Newton North
 Member, Career and Technical Education Advisory Committee, NNHS, Design and Communications (10+ years) (current)
 Community Representative on Newton North's 10-year Accreditation Committee (NEASC)
 Member, Joint High School Committee on Stress Reduction
 Member, Citizen's Task Force on Newton North
 Member, F.A. Day Technology Committee
 Parent Board — Cabot After School Program (CASP)
 Teacher: Comparative Religion; World Religions (FUUSN) (12+ years)
 Soccer Coach: BAYS, Newton Youth Soccer, Newton Girls Soccer
 Basketball Coach: West Suburban YMCA

GENERAL NOTES

- All work shall conform to Massachusetts Building Code and all Federal, State and City of Newton laws, codes and regulations as each may apply.
- All existing conditions must be verified in field. If discrepancies are found, they will be reported to the Engineer prior to start of work. Omissions or conflicts between the various elements of the working drawings and/or the specifications shall be brought to the attention of the Engineer prior to the start of work.
- The contractor shall be responsible for coordinating the scheduling and work of all trades and shall check all dimensions. All discrepancies shall be called to the attention of the Engineer and shall be resolved prior to proceeding with the work.
- The Contractor shall supervise and direct the work and shall be solely responsible for the construction means, methods, techniques, sequences and procedures, including but not limited to bracing and shoring.
- The Contractor agrees that in accordance with generally accepted construction practices, the Contractor shall assume sole and complete responsibility for the job site conditions during the course of construction, including the safety of all persons and property, and that this requirement shall apply continuously and not be limited to normal working hours.
- All work shall be performed in a first class and workmanlike manner in conformity with the plans and specifications, and shall be in good usable condition at the completion of the Project.

PLAN NOTES:

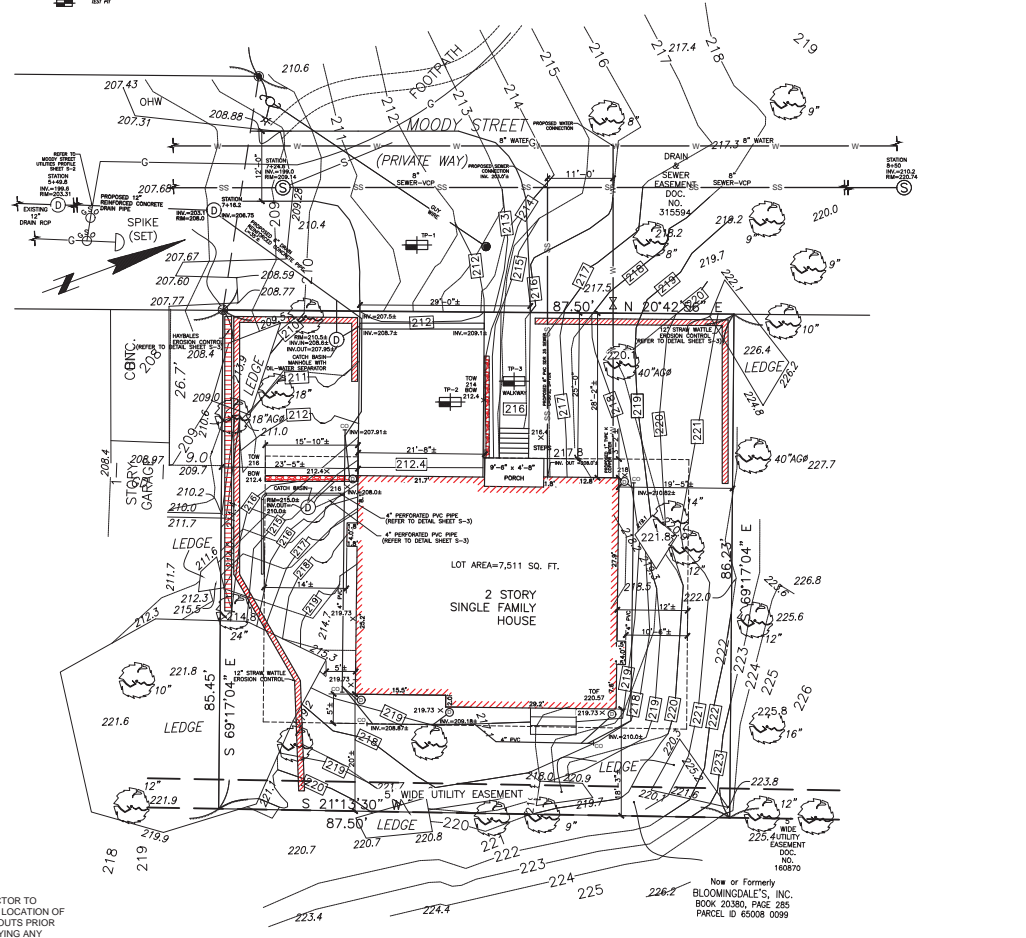
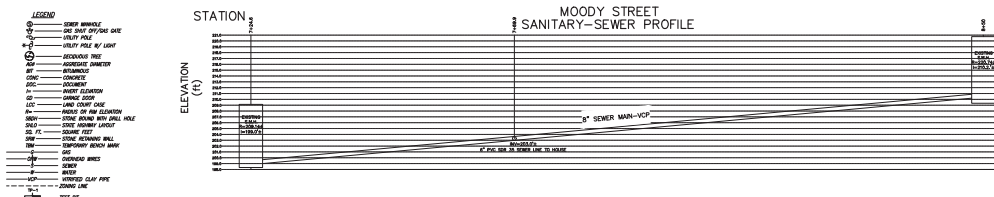
- NO EXCAVATION IS ALLOWED WITHIN ANY CITY RIGHT OF WAY BETWEEN NOVEMBER 15TH AND APRIL 15TH, IF AN EMERGENCY EXISTS OR THERE ARE EXTENUATING CIRCUMSTANCES, APPLICANT MAY SEEK PERMISSION FOR SUCH WORK FROM THE CITY COMMISSIONER VIA THE CITY ENGINEER. IF PERMISSION IS GRANTED, SPECIAL CONSTRUCTION STANDARDS WILL BE APPLIED. APPLICANT OR APPLICANT'S REPRESENTATIVE MUST CONTACT THE CITY OF NEWTON ENGINEERING DEPARTMENT PRIOR TO START OF WORK FOR CLARIFICATION.
- THE EXISTING WATER & SEWER SERVICES SHALL BE CUT AND CAPPED AT THE MAINS AND BE COMPLETELY REMOVED FROM THE SITE AND PROPERLY BACKFILLED. THE ENGINEERING DIVISION MUST INSPECT THIS WORK; FAILURE TO HAVING THIS WORK INSPECTED MAY RESULT IN THE DELAY OF THE ISSUANCE OF THE UTILITY CONNECTION PERMIT.
- AS OF JANUARY 1, 2009, ALL TRENCH EXCAVATION CONTRACTORS SHALL COMPLY WITH MGL CH 82A, TRENCH EXCAVATION SAFETY REQUIREMENTS, TO PROTECT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO TRENCHES. TRENCH EXCAVATION PERMIT REQUIRED. THIS APPLIES TO ALL TRENCHES ON PUBLIC AND PRIVATE PROPERTY.
- THE APPLICANT WILL HAVE TO APPLY FOR THE STREET OPENING, UTILITY CONNECTION AND AN INSTALL CURB & SIDEWALK PERMIT WITH THE DPW PRIOR TO START OF WORK.
- AFTER ALL ENGINEERING PERMITS ARE OBTAINED, THE CONTRACTOR NEEDS TO NOTIFY THE ENGINEERING DIVISION IN ADVANCE AND SCHEDULE AN APPOINTMENT TO HAVE THE WATER, DRAINAGE & SEWER SERVICES INSPECTED. THE SYSTEM & UTILITIES MUST BE FULLY EXPOSED FOR THE INSPECTOR. ONCE THE INSPECTOR IS SATISFIED, THE SYSTEM & UTILITIES MAY BE THEN BACKFILLED.
- WITH THE EXCEPTION OF GAS SERVICES, ALL UTILITY TRENCHES WITHIN THE CITY OF NEWTON RIGHT OF WAY WILL BE BACKFILLED WITH TYPE II (EXCAVATABLE) CONTROLLED DENSITY FILL, AS SPECIFIED BY THE CITY OF NEWTON ENGINEERING DEPARTMENT.
- PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT, AN AS-BUILT DRAWING SHALL BE SUBMITTED TO THE ENGINEERING DIVISION IN BOTH DIGITAL FORMAT AND IN HARD COPY. THE PLAN MUST SHOW ALL UTILITIES AND DRAINAGE (UTILIZING SWING TEST), ANY EASEMENTS AND FINAL GRADING.
- IF ENGINEERING DIVISION ACCEPTANCE IS REQUESTED PRIOR TO ALL SITE WORK BEING COMPLETED, THE APPLICANT WILL BE REQUIRED TO POST A CERTIFIED BANK CHECK IN THE AMOUNT TO COVER THE REMAINING WORK. THE CITY ENGINEER SHALL DETERMINE THE VALUE OF THE UNCOMPLETED WORK.
- THE NEW SEWER SERVICES AND STRUCTURES WILL NEED TO BE PRESSURE TESTED AS FEASIBLE PRIOR TO ACCEPTANCE. THE PROPOSED SEWER LINE THAT CANNOT BE TESTED SHALL BE VIDEO TAPED AND SUBMITTED TO THE INSPECTOR.
- UNREINFORCED CONCRETE BLOCK WALL TO BE NO GREATER THAN 31" IN HEIGHT AND CONSTRUCTED ACCORDING TO MANUFACTURING SPECIFICATIONS.
- PRIOR TO CONNECTION TO THE CITY DRAINAGE SYSTEM, THE EXISTING DRAIN MAIN MUST BE VIDEO INSPECTED BY A QUALIFIED CONTRACTOR. THE CONTRACTOR MUST PROVIDE A MINIMUM OF 48HR NOTICE TO ALL REPRESENTATIVES OF THE ENGINEERING DIVISION TO BE PRESENT AT THE TIME OF INSPECTION. AFTER CONNECTION TO THE CITY DRAINAGE SYSTEM HAS OCCURRED, THE EXISTING DRAIN SHALL BE VIDEO INSPECTED BY A QUALIFIED CONTRACTOR. THE CONTRACTOR MUST PROVIDE A MINIMUM OF 48HR NOTICE TO ALL REPRESENTATIVES OF THE ENGINEERING DIVISION TO BE PRESENT AT THE TIME OF INSPECTION.
- ALL SUBSURFACE DRAINAGE STRUCTURES TO BE COVERED WITH 2 LAYERS OF FILTER FABRIC SEPARATED BY 3" PEA STONE.

CONSTRUCTION NOTES:

- A PRE & POST CONSTRUCTION CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION SHALL BE PERFORMED OF THE EXISTING DRAIN MAIN FROM THE END OF THE LINE MANHOLE TO THE NEXT DOWNSTREAM MANHOLE BEFORE FINAL APPROVAL OF A DRAIN MAIN EXTENSION BY THE APPLICANT BY A SPECIALTY CONTRACTOR APPROVED FOR THIS TYPE OF INSPECTION, AND WITNESSED BY THE ENGINEERING DIVISION. COPIES OF THE INSPECTION SHALL BE SUBMITTED FOR THE REVIEW BY THE CITY ENGINEER.
- UPON COMPLETION OF THE DRAIN MAIN THE TRENCH SHALL BE PATCHED PER THE STREET OPENING REQUIREMENTS.
- IF ANY SERVICE CONNECTIONS ARE DISTURBED BY THE CONTRACTOR OF RECORD DURING CONSTRUCTION, THEY SHALL BE UPDATED AND REPLACED TO THE CITY'S CURRENT CONSTRUCTION STANDARDS.
- UPON FINAL INSTALLATION & INSPECTION AN AS-BUILT DRAWING (PLAN & PROFILE) INDICATING RIM, INVERT ELEVATIONS, CENTER LINE GRADES AND SLOPES OF THE DRAIN PIPE, AND ALL POINTS OF CONNECTION SHALL BE SUBMITTED IN DIGITAL AND HARD COPY FORMAT TO THE CITY ENGINEER, STAMPED BY THE ENGINEER OF RECORD.
- ALL DOWNSTREAM CATCH BASINS SHALL BE RETROFITTED WITH AN APPROVED TYPE OF SILTATION CONTROL DEVICES. THE CONTRACTOR OF RECORD SHALL MAINTAIN THESE CATCH BASINS THROUGHOUT THE CONSTRUCTION PROCESS AND ENSURE THAT STREET AND PROPERTY FLOODING DOES NOT OCCUR DURING CONSTRUCTION.
- A REPRESENTATIVE OF THE ENGINEERING DIVISION SHALL, WITHIN THE CONSTRUCTION, 48-HRS. PRIOR NOTIFICATION SHALL BE GIVEN TO THE INSPECTOR TO COORDINATE ON-SITE INSPECTIONS.
- THE CONTRACTOR OF RECORD SHALL OBTAIN A TRENCH, STREET OPENING, SIDEWALK CROSSING, AND UTILITY CONNECTION PERMITS WITH THE DPW PRIOR TO CONSTRUCTION.
- THE CONTRACTOR OF RECORD SHALL ENGAGE THE NEWTON POLICE DEPARTMENT FOR POLICE DETAILS DURING CONSTRUCTION.
- THE APPLICANT MUST APPLY FOR A DRAIN MAIN PETITION WITH THE CITY CLERK'S OFFICE FOR A PUBLIC HEARING BEFORE APPROVAL IS OBTAINED.
- DO NOT TAKE NOTATIONS IS REQUIRED PRIOR TO CONSTRUCTION, ALONG WITH THE REQUIREMENT FOR THE CONTRACTOR TO CONTACT THE UTILITIES DIVISION 72 HOURS PRIOR FOR SEWER, WATER AND DRAIN MARK OUTS.
- APPROVAL OF THIS PLAN BY THE CITY OF NEWTON ENGINEERING DIVISION IMPLIES THAT THE PLAN MEETS THE MINIMAL DESIGN STANDARDS OF THE CITY OF NEWTON. HOWEVER, THE ENGINEERING DIVISION MAKES NO REPRESENTATIONS AND ASSUMES NO RESPONSIBILITY FOR THE DESIGN(S) IN TERMS OF SUITABILITY FOR THE PARTICULAR SITE CONDITIONS OR OF THE FUNCTIONALITY OR PERFORMANCE OF ANY ITEMS CONSTRUCTED IN ACCORDANCE TO THE DESIGN(S). THE CITY OF NEWTON ASSUMES NO LIABILITIES FOR DESIGN ASSUMPTION, ERRORS OR OMISSIONS BY THE ENGINEER OF RECORD.

NOTE:
CONTRACTOR TO
CONFIRM LOCATION OF
DOWNSPOUTS PRIOR
TO CARRYING ANY
DRAINAGE WORKS.

NOTE:
ALL DRAINS TO BE 4"
PVC (SDR 35) UNLESS
OTHERWISE NOTED.



ZONING DISTRICT: SR-3			
REGULATION	REQ.	EXIST.	PROPOSED
LOT FRONTAGE:	70'	0	87.5'
FRONT SETBACK:	25'	0	25'
SIDE SETBACK:	7.5'	0	19.5'/23.5'
REAR SETBACK:	1.5'	0	18.5'
MAX LOT COVERAGE:	50%	0	23.9%
MIN OPEN SPACE:	50%	0	67.8%
F.A.R. (PER ARCHITECT): 0.40%			

NOTE: THIS LOT WAS CREATED DEC. 1931.
I HEREBY CERTIFY THAT THE BUILDING IS TO BE LOCATED AS SHOWN.
SURVEY BY ROBER SURVEY, CLIFFORD E. ROBER, PLS
DATED 10/08/2020

SOILS INFORMATION

TEST PITS CONDUCTED BY COREY MASON, USE OF M/D O'CONNELL ASSOCIATES, INC. ON 3/27/2019 AND WITNESSED BY NATHAN SWAN, PROJECT/PERMIT ENGINEER FOR THE CITY OF NEWTON.

DEPTH	LAYER	SOIL TEXTURE
0 - 3"	0	LOAMY SAND
3 - 12"	1a	LOAMY SAND
12 - 24"	1b	SANDY LOAM
24 - 35"	2	GRAVELLY LOAMY SAND

REFUSAL AT 35"
NO OTHER OBSERVED

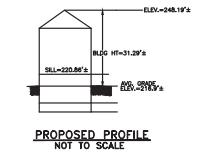
EXISTING

VARIOUS PILES OF RUBBLE AND STONE.
CORNER OF LEDGE.

PROPOSED

AREA (SQ. FT.)	CN	DESCRIPTION (SUBCATEGORY-NUMBER)
612	08	PAVED PARKING, HSD A (40)
1,289	08	ROOFS, HSD B (105)
130	08	MULCH (45)
2,211	08	70% AREA

IN ACCORDANCE WITH THE STORM WATER MANAGEMENT PROGRAM (VOLUME 1600) BY RAY & ASSOCIATES, INC. FOR THE CITY OF NEWTON, MASSACHUSETTS, OCTOBER 27, 2007



DATE	REVISION
1/21/21	REVISION PER CITY OF NEWTON COMMENTS
1/18/21	REVISION PER CITY OF NEWTON COMMENTS DATED 1/12/21
12/22/20	REVISION PER CITY OF NEWTON COMMENTS
12/21/20	REMOVED STORMWATER SYSTEM, ADDED TP-3
12/10/20	REVISION PER CITY OF NEWTON COMMENTS DATED 12/08/20
11/30/20	REVISION PER CITY OF NEWTON COMMENTS DATED 11/25/20
11/24/20	REVISION PER CITY OF NEWTON COMMENTS DATED 11/23/20
11/17/20	ADDED TEST PIT INFO, ADDITIONAL NOTES
11/5/20	PROPOSED UTILITY LINES

All legal rights including, but not limited to, copyright and design patent rights, in the designs, arrangements and plant shown on this document are the property of RAV&A, Inc. They may not be used or reused in whole or in part, except in connection with this project, without the prior written consent of RAV&A, Inc. Written permission on these drawings shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on this project, and RAV&A, Inc. must be notified of any variation from the dimensions and conditions shown by these drawings.

PROPOSED SITE PLAN

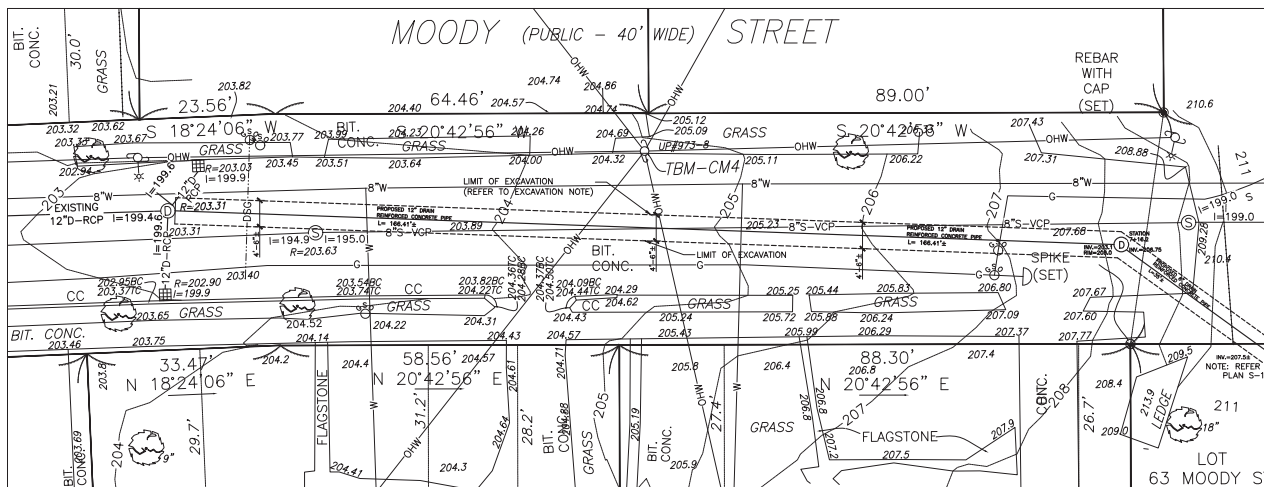
63 MOODY STREET,
NEWTON, MASSACHUSETTS

RAV & Assoc., Inc.
21 HIGHLAND AVENUE
NEEDHAM, MASSACHUSETTS 02464
TELEPHONE: (781) 449-8200

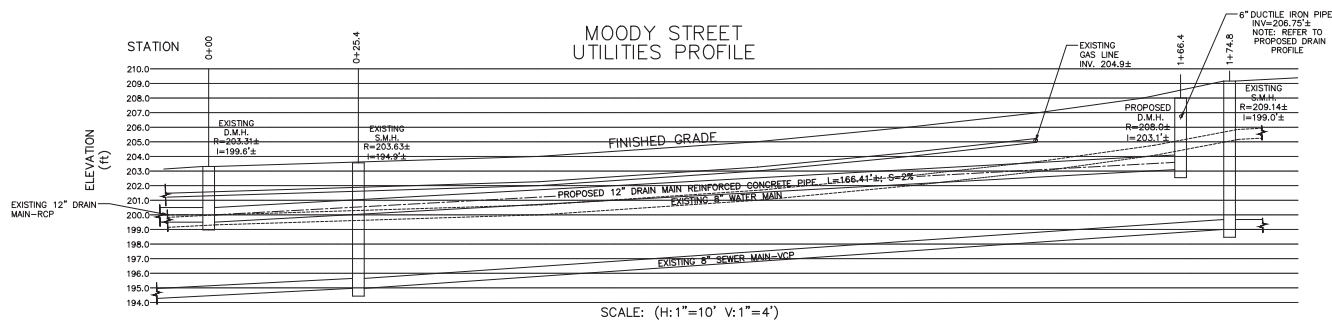
SCALE: 1"=10'

APPROVED: R.A.V.	DESIGNED BY: R.A.V.	DRAWING NO.
DATE: 10/29/2020	DRAWN BY: N.J.	S-1
	CHECKED BY: R.A.V.	





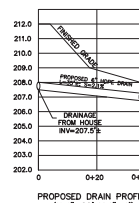
EXCAVATION NOTE:
 THE PROPOSED TRENCH LIMITS MUST BE SAW CUT. NO JACKHAMMERING.



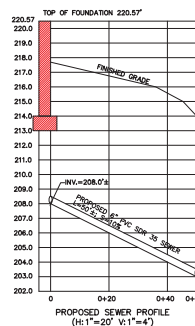
EXISTING 12\"/>

6\"/>

SCALE: (H:1\"/>



PROPOSED DRAIN PROFILE (H:1\"/>



PROPOSED SEWER PROFILE (H:1\"/>

DATE	REVISION
1/21/21	REVISION PER CITY OF NEWTON COMMENTS
1/18/21	REVISION PER CITY OF NEWTON COMMENTS DATED 1/12/21
12/22/20	REVISION PER CITY OF NEWTON COMMENTS
12/21/20	REMOVED STORMFRETCH SYSTEM, ADDED TP-3
12/10/20	REVISION PER CITY OF NEWTON COMMENTS DATED 12/08/20
11/30/20	REVISION PER CITY OF NEWTON COMMENTS DATED 11/25/20
11/24/20	REVISION PER CITY OF NEWTON COMMENTS DATED 11/23/20
11/17/20	ADDED TEST PIT INFO, ADDITIONAL NOTES
11/3/20	PROPOSED UTILITY LINES

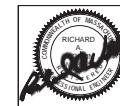
All legal rights including, but not limited to, copyright and design patent rights, in the designs, arrangements and plans shown on this document are the property of RAV&Assoc., Inc. They may not be used or reused in whole or in part, except in connection with this project, without the prior written consent of RAV&Assoc., Inc. Written dimensions on these drawings shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on this project, and RAV&Assoc., Inc. must be notified of any variation from the dimensions and conditions shown by these drawings.

PROFILES

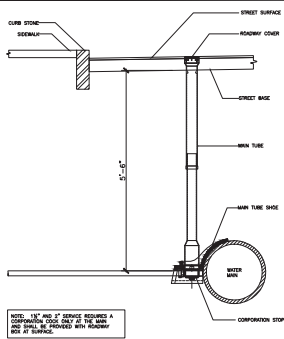
63 MOODY STREET,
 NEWTON, MASSACHUSETTS

RAV & Assoc., Inc.

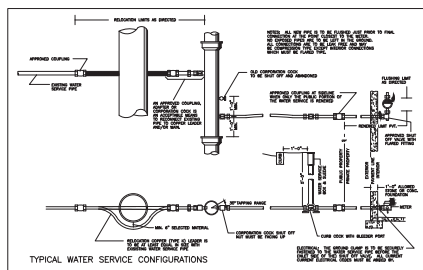
21 HIGHLAND AVENUE
 NEEDHAM MASSACHUSETTS 02464
 TELEPHONE: (781) 449-8200



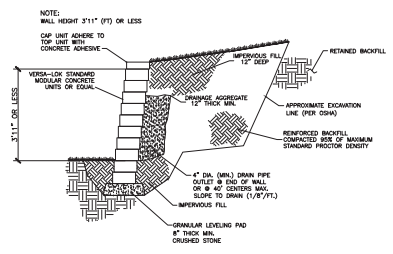
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APPROVED: R.A.V.	DRAWN BY: N.J.	S-2
DATE: 10/29/2020	CHECKED BY: R.A.V.	



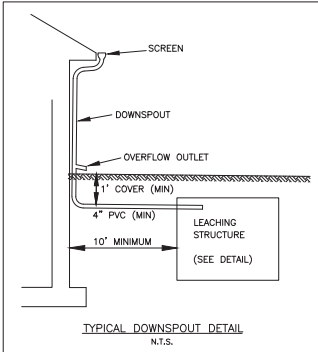
TYPICAL WATER CONNECTION DETAIL FOR 1 1/2" AND 2" SERVICE PIPE N.T.S.



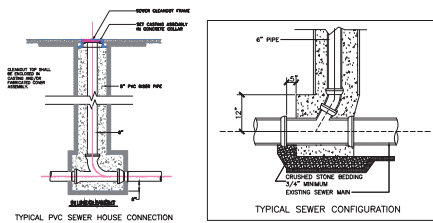
TYPICAL WATER SERVICE CONFIGURATIONS



TYPICAL SECTION-REINFORCED RETAINING WALL

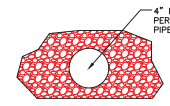


TYPICAL DOWNSPOUT DETAIL N.T.S.

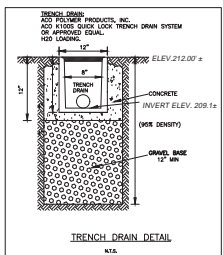


TYPICAL PVC SEWER HOUSE CONNECTION N.T.S.

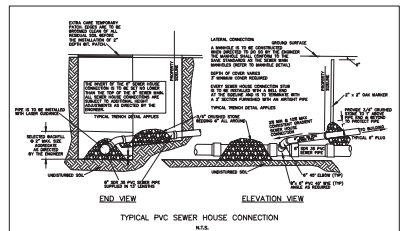
TYPICAL SEWER CONFIGURATION



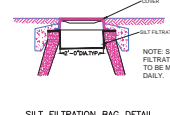
TYPICAL PERFORATED PIPE DETAIL



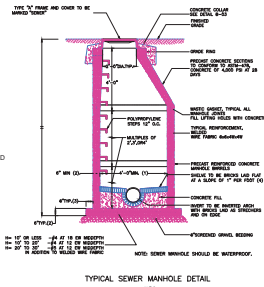
TRENCH DRAIN DETAIL N.T.S.



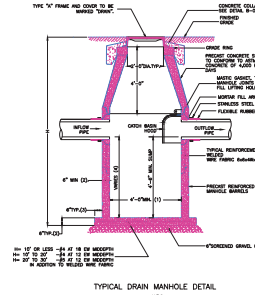
TYPICAL PVC SEWER HOUSE CONNECTION N.T.S.



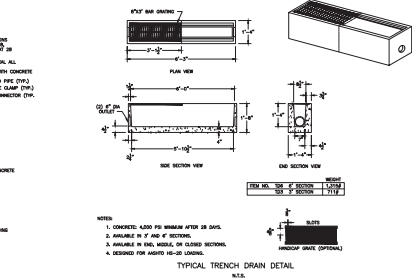
SILT FILTRATION BAG DETAIL N.T.S.



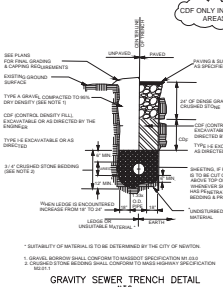
TYPICAL SEWER MANHOLE DETAIL N.T.S.



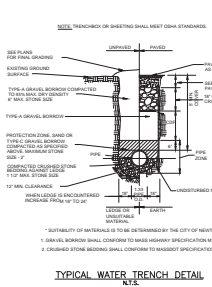
TYPICAL DRAIN MANHOLE DETAIL N.T.S.



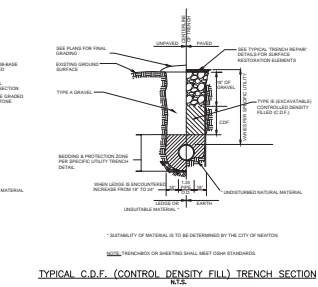
TYPICAL TRENCH DRAIN DETAIL N.T.S.



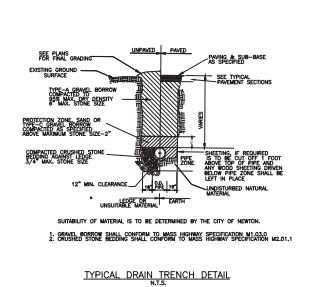
GRAVITY SEWER TRENCH DETAIL N.T.S.



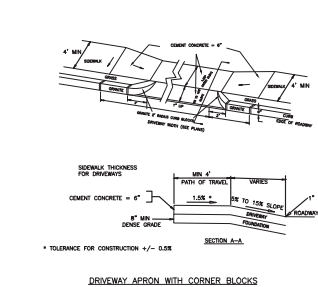
TYPICAL WATER TRENCH DETAIL N.T.S.



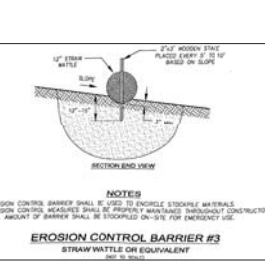
TYPICAL C.D.F. (CONTROL DENSITY FILL) TRENCH SECTION N.T.S.



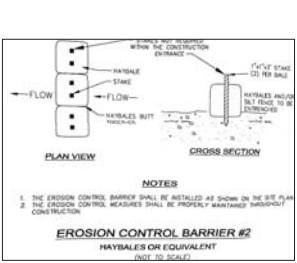
TYPICAL DRAIN TRENCH DETAIL N.T.S.



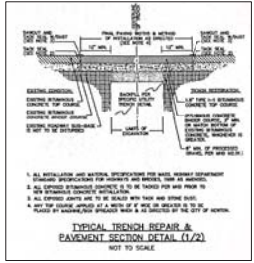
DRIVEWAY APRON WITH CORNER BLOCKS N.T.S.



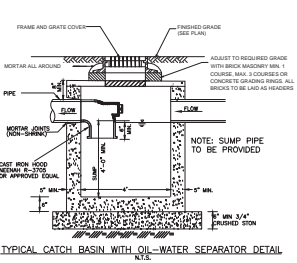
EROSION CONTROL BARRIER #3 STRAW WATTLE OR EQUIVALENT N.T.S.



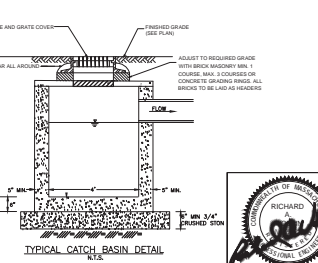
EROSION CONTROL BARRIER #2 HAYBALES OR EQUIVALENT (NOT TO SCALE)



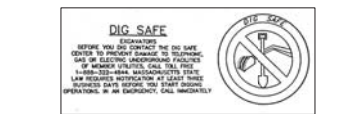
TYPICAL TRENCH REPAIR & PAVEMENT SECTION DETAIL (1/2) NOT TO SCALE



TYPICAL CATCH BASIN WITH OIL-WATER SEPARATOR DETAIL N.T.S.



TYPICAL CATCH BASIN DETAIL N.T.S.

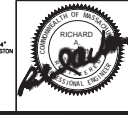


DATE	REVISION
1/21/21	REVISION PER CITY OF NEWTON COMMENTS
1/18/21	REVISION PER CITY OF NEWTON COMMENTS DATED 1/12/21
12/22/20	REVISION PER CITY OF NEWTON COMMENTS
12/21/20	REMOVED STORMTECH SYSTEM; ADDED TP-3
12/10/20	REVISION PER CITY OF NEWTON COMMENTS DATED 12/08/20
11/30/20	REVISION PER CITY OF NEWTON COMMENTS DATED 11/23/20
11/24/20	REVISION PER CITY OF NEWTON COMMENTS DATED 11/23/20
11/17/20	ADDED TEST PIT INFO, ADDITIONAL NOTES
11/3/20	PROPOSED UTILITY LINES

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DESIGNED BY:	R.A.V.
DRAWN BY:	N.J.
CHECKED BY:	R.A.V.
DATE:	11/23/2020
DRAWING NO.:	S-3





Ruthanne Fuller, Mayor
Josh Morse
Building Commissioner

CITY OF NEWTON, MASSACHUSETTS
PUBLIC BUILDINGS DEPARTMENT
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January 12, 2021

Re: School HVAC Project Update

As previously reported, Newton Public Schools spent the summer making sure the HVAC systems in the school buildings were all operable, clean, and functional. At the request of the superintendent in September, at the direction of Mayor Fuller, the City of Newton Public Buildings Department was directed to help Newton Public Schools perform a targeted and aggressive initiative to service, adjust, test and report out on all ventilation equipment throughout the district with a focus on maximizing air flow and fresh air introduction capacity. In accordance with ASHRAE's Epidemic Task Force, we have retroactively applied the ventilation requirements of ASHRAE 62.1 throughout the 23 school facilities. ASHRAE 62.1 factors in and adjusts for the impact of various mechanical ventilation system designs, and the mechanical ventilation discharge air temperature, and the impact that both of these have on the distribution of fresh air throughout a classroom or other occupied space.

The Following is the status of the overall efforts to date as well as the steps needed to close this project out:

	Service and Maintenance	Engineering	Initial Test and Balancing	Remedial Work	Final Test and Balancing
Angier	Complete	Complete	Complete	Complete	Complete
Bowen	Complete	Complete	Complete	Complete	Complete
Burr	Complete	Complete	Complete	Complete	Complete
Cabot	Complete	Complete	Complete	N/A	Complete
Horace Mann	Complete	Complete	Complete	Complete	Complete
Countryside	Complete	Complete	Complete	Complete	Complete
Franklin	Complete	Complete	Complete	Complete	Complete
Lincoln-Eliot	Complete	Complete	Complete	Complete	Complete
Newton Early Education	Complete	Complete	Complete	Complete	Complete
Peirce	Complete	Complete	Complete	Complete	Complete
Memorial Spaulding	Complete	Complete	Complete	Complete	Complete
Mason Rice	Complete	Complete	Complete	Complete	Complete
Underwood	Complete	Complete	Complete	Complete	Complete
Ward	Complete	Complete	Complete	Complete	Complete
Williams	Complete	Complete	Complete	Complete	Complete
Zervas	Complete	Complete	Complete	Complete	Complete
Bigelow	Complete	Complete	Complete	Complete	Complete
Brown	Complete	Complete	Complete	Complete	Complete
Day	Complete	Complete	In Process	Complete	95% Complete

Oak Hill	Complete	Complete	Complete	Complete	Complete
Ed Center	Complete	Complete	Complete	Complete	Complete
NNHS	Complete	Complete	In process	In process	80% Complete
NSHS	Complete	Complete	In process	In process	99% Complete

The final air flow test and balancing is complete throughout the majority of the district. The air flow test and balancing companies are working to finalize their reports which will in turn be sent to Crowley Engineering who will review them and generate the final dashboards. I have personally witnessed the vast majority of the final air flow readings throughout the district. The information below represents my observations and recordings of the actual air flow readings for every space with mechanical ventilation in the 23 school facilities as they compare to the fresh air flow requirements set forth by Crowley Engineering in accordance with ASHRAE 62.1. For the few instances where I was not present during testing, the below information is based on the preliminary verbal reports from the air balancers assigned to those facilities. Formal results will be provided by the air flow test and balancing companies, and certified by Crowley Engineering.

Angier – Final air flow testing observed to be 100% green for 100% occupancy
Bowen - Final air flow testing observed to be 100% green for 100% occupancy
Burr - Final air flow testing observed to be 100% green for 100% occupancy
Cabot - Final air flow testing observed to be 100% green for 100% occupancy
Horace Mann – Final air flow testing observed to be 100% green for 100% occupancy
Countryside – Final air flow testing observed to be 100% green for 100% occupancy
Franklin – Final air flow testing observed to be 100% green for 100% occupancy
Lincoln-Eliot – Final air flow testing observed to be 100% green for 100% occupancy
Newton Early Education – Final air flow testing observed to be 100% green for 100% occupancy
Peirce – Final air flow testing observed to be 99% green for 100% occupancy (Cafe needs a mechanical ventilation system)
Memorial Spaulding – Final air flow testing observed to be 100% green for 100% occupancy
Mason Rice – Final air flow testing observed to be 99% green for 100% occupancy (Art, Music, and Afterschool need new larger mechanical ventilation systems)
Underwood – Final air flow testing observed to be 100% green for 100% occupancy
Ward – Final air flow testing observed to be 99% green for 100% occupancy (Cafe needs a larger mechanical vent system)
Williams – Final air flow testing observed to be 100% green for 100% occupancy
Zervas - Final air flow testing observed to be 100% green for 100% occupancy
Bigelow – Final air flow testing observed to be 100% green for 100% occupancy
Brown – Final air flow testing observed to be 100% green for 100% occupancy
FA Day – Final Air Flow Testing is Substantially Complete
Oak Hill - Final air flow testing observed to be 100% green for 100% occupancy
Ed Center – Final air flow testing observed to be 100% green for 100% occupancy
North High – Final air flow testing observed to be 80% complete, but 100% green for 100% occupancy so far.
South High – Final air flow testing observed to be ~99% complete and green for 100% occupancy (Small punch-list being wrapped up now as remedial work has been completed concurrent with testing)

In addition to the handful of punch list items identified above, we will be working with Crowley Engineering and Newton Public Schools on how best to address some offices and small support rooms in some schools where mechanical ventilation was not included in those spaces when the building was built. In these cases, if the space is currently in use, NPS is deploying air purifiers and has directed staff to keep windows cracked open while we work on permanent solutions. The final air flow test and balancing reports for Newton North and Newton South are both in the process of being written. Final air flow test and balancing reports and dashboards will be received almost daily this week, so final official results will be posted by the district very soon.

As part of the closeout of this project, I have directed Crowley Engineering to perform an audit of every calculation, for every air flow requirement, for every space, in every school facility. I will be performing the same audit, and should it be necessary, we will make further adjustments, retest, and make those actions and results available.

The above efforts have been a coordinated effort of over a thousand City, School, and contractual employees. In addition to the efforts of Crowley Engineering, the following contractors have been working Sunday – Saturday, 12-16 hours a day in some cases, for the past 12 weeks to complete this initiative:

HVAC Contractors

- Associated Mechanical Services
- Cox Engineering Service Co.
- Fraser Engineering
- General Air Conditioning & Heating, Inc.
- Harold Brothers
- Mighty Duct
- NB Kenney Company
- Boston Mechanical Services
- Patrick J. Kennedy & Sons Inc
- Bay State Air
- Corporate Mechanical
- Enterprise Equipment
- R.P. O’Connell, Inc

Air Flow Testing and Balancing Firms

E.L. Barret
ATAB
Thomas Young
THB Company
JF Coffey
Precision Testing and Air Balancing
Balancing Technologies

Additional information can be found at <https://www.newton.k12.ma.us/Page/3731> where we have posted thousands of pages of service, testing, and maintenance data showing our work to date throughout the district.

Again, we would like to thank the principals, teachers, and custodians as they have all been extremely supportive and accommodating of our efforts.

Sincerely,



Josh Morse
Public Buildings Commissioner