TOWN OF CONCORD
TOWN HOUSE - P.O. BOX 535
CONCORD, MASSACHUSETTS 01742

Select Board Meeting
Tuesday, May 27, 2025 at 5:00 PM
Town House, Select Board Room, 22 Monument Square and via Zoom

Join Zoom Meeting
https://us02web.zoom.us/j/86750805993?pwd=2eI7In5PbeJzbAPdOIusml42FaAY6Q.1

Meeting ID: 867 5080 5993
Passcode: 304216
Dial In Toll-Free: 833 928 4608

	Time	Agenda Item
I.	5:00 PM	Executive Session: To consider the value of real property if the chair declares that an open meeting may have a detrimental effect on the negotiating position of the public body: Discuss terms of a potential MOA between the Select Board and Deaconess Abundant Life regarding the proposed warrant article for a Continuing Care Retirement Community Overlay District Presenter: Mina Makarious, Town Counsel
II.	6:00 PM	*Public Comment:* Public Comment is an opportunity for the public to address the Select Board on matters under consideration by the Select Board. Therefore, comments related to political campaigns are not appropriate. Public Comment is limited to up to 15 minutes, with no more than 3 minutes allocated to any one speaker. Public Comment is limited to items that are not on the agenda.
III.	6:15 PM	Consent Agenda: i. Minutes: July 8, 2024; September 23, 2024; September 30, 2024 – RTE Forum; October 7, 2024; April 14, 2025; May 5, 2025; May 12, 2025 ii. Executive Session Meeting Minutes for **Approval and Release**: February 10, 2025; February 24, 2025; March 17, 2025 iii. Town Accountant Warrants: May 1, 2025; May 8, 2025; May 15, 2025 iv. Proclamation honoring the U.S. Army Corps of Engineers 250 years of service v. One Day Liquor License for Wines & Malt Beverages Only for Tom Wilson of the Wright Tavern for a Celebration and Support of the Robbins House and Wright Tavern on Saturday, June 7, 2025 from 11:00 AM – 7:00 PM vi. Tour Guide Licenses: Claire McGurn; Tara Murphy vii. Letter from the Select Board to Town Staff regarding the Concord250th

		viii. Committee Nominations: a. Tracey Marano of 39 Partridge Lane as the School Committee representative to the Land Use Working Group for a term to expire at the conclusion of the work outlined in the charge b. Maureen Goldin of 56 Riverside Avenue to the West Concord Junction Cultural District Committee for a term to expire May 31, 2028 c. Jeffrey Collins of 55 Highland Street to the Community Preservation Committee for a term to expire May 31, 2029 d. Joseph Rigali of 404 Monument Street to the Hugh Cargill Trust Committee for a term to expire May 31, 2028
IV.	6:15 PM	Select Board Appointments: i. Keith Bergman of 56 White Avenue as the Concord Municipal Affordable Housing Trust representative to the Land Use Working Group ii. Mark Martines of 66 Alford Circle as the Economic Vitality Committee representative to the Land Use Working Group iii. Scott Bates of 52 Indian Spring Road as the MCI Concord Advisory Board representative to the Land Use Working Group iv. Sven Weber of 50 Belknap Street as the Public Works Commission representative to the Land Use Working Group v. Mary Hartman of 16 Concord Greene as the Select Board representative to the Land Use Working Group vi. Phil Griffiths of 128 Conant Street as the Recreation Commission representative to the Land Use Working Group vii. Alan Bogosian of 1624 Main Street to the Planning Board for a term to expire May 31, 2030 viii. Greg Dorothy of 188 Border Road to the Planning Board to complete an unexpired term until May 31, 2027 ix. Mary Hartman of 16 Concord Greene as the Select Board member of the Concord Municipal Affordable Housing Trust to extend the first term to expire May 1, 2026 (first full two-year term) x. Linsday Wolff of 41 Frances Street to the West Concord Advisory Committee for a term to expire May 31, 2028 * All Land Use Working Group terms to expire at the conclusion of the work outlined in the charge
V.	6:20 PM	Discuss and Approve Design for Painting of Switchboxes at Sudbury and Thoreau Presenter: Mimi Graney, Economic Vitality Manager
VI.	6:25 PM	Discuss Administrative Policy and Procedure #10: Board and Committee Appointments

		Presenter: Cameron McKennitt, Select Board Member
VII.	6:40 PM	Public Hearing for Grant of Location Request for Comcast at 936 Elm Street Presenter: Cathy Maloney, Senior Manager of Government & Regulatory Affairs for Comcast
VIII.	6:45 PM	Public Hearing for Grant of Location Requests for National Grid at: 1. 475 – 806 Monument Street 2. 3 – 46 Pond Street 3. 21 – 92 Old Bridge Road Presenter: Mary Mulroney, Permit Representative for National Grid
IX.	6:55 PM	Discuss and Vote Recommendations on Remaining Annual Town Meeting Warrant Articles: Article 13; Article 18; Article 19; Article 32; Article 35; Article 46 Presenter: Mary Hartman, Chair
X.	7:10 PM	Confirm Select Board Presenter Assignments and Presentations for Annual Town Meeting Presenter: Mary Hartman, Chair
XI.	7:15 PM	Discuss and Approve Select Board Meeting Calendar for Remainder of 2025 Presenter: Mark Howell, Clerk
XII.	7:25 PM	Request for Permit to Remove Public Shade Tree Located at 401 Elm Street Presenters: Molly and Peter Mascia, 401 Elm Street; Erik Shaw, Tree Warden and Assistant Superintendent of Highway and Grounds
XIII.	7:35 PM	Discuss and Acknowledge Notification of CCRSD Excess and Deficiency Account status forecast, Subsequent Vote Discuss and Acknowledge Notification of MVRTHS Excess and Deficiency Account, FY25 Budget Adjustment Vote Presenter: Kerry Lafleur, Town Manager
XIV.	7:50 PM	Chair’s Report
XV.	7:55 PM	Town Manager’s Report

XVI.	8:05 PM	Select Board Liaison Reports
XVII.		Adjournment

* *Times are approximate and subject to change*

Upcoming Meetings:

Monday, June 2, 2025 (Annual Town Meeting) Monday, June 30, 2025

The Town of Concord endeavors to make public meetings accessible to all members of the community. To request a meeting accommodation or modification, please contact our ADA Coordinator Jessica Porter at jporter@concordma.gov or at 978-318-3028. Please make any requests for accommodation or modifications at least two (2) business days prior to the scheduled meeting.

Town of Concord
Select Board Joint FinCom Meeting
Minutes
July 8, 2024

Pursuant to notice duly filed with the Town Clerk, the Concord Select Board convened in a meeting both in-person at 22 Monument Square on the 2nd floor in the Town House Hearing Room and via Zoom at 5:00 PM on July 8, 2024.

Present were: Chair, Mary Hartman; Clerk, Mark Howell, Terri Ackerman, Wendy Rovelli and Cameron McKennitt

Call to Order

Select Board Chair Mary Hartman called the meeting to order at 6:00 PM.

Mr. Howell confirmed that all Select Board members were present.

Public Comment

Mary Weinberg, 26 Hillside Avenue stated that at Gerow Park, the pond view is obstructed by trees and new plantings. Consider removal of the the newly planted trees to be planted elsewhere. Also mentioned consideration of placing picnic tables under the pavilion to enhance the use of the area.

Tanya Gailus, 62 Prescott Road brought forth discussion of the 250th Arts subcommittee with concern of how it is structured or organization and the complex system. Requesting that the process for how an independent artist or presenter makes a proposal for awards and grants to enhance communication and transparency so more independent artists will participate.

Joe Palumbo, 90 Black Horse Place extended thanks to the Select Board for their support for the first Concord Pride events. The main weekend event was very well attended among a wide age range as well.

Consent Agenda

a. Meeting Minutes: June 17, 2024
b. Town Accountant Warrants: June 13, 2024; June 18, 2024; June 21, 2024; June 27, 2024
c. Common Victualler License for J & O Baking Company, DBA Concord Teacakes, located at 59 Commonwealth Avenue to acknowledge the change of ownership of the business
d. One Day Liquor Licenses:
    i. Malt Beverages Only for Jennifer Verrill for the True West Beer Dinner on Saturday, July 13, 2024 from 1:00 PM – 6:00 PM at Verrill Farm, 11 Wheeler Road
    ii. Wines & Malt Beverages Only for Jennifer Verrill for the Farm to Table Dinner on Thursday, July 18, 2024 from 6:00 PM – 8:00 PM at Verrill Farm, 11 Wheeler Road
e. Revised 2025 Town Meeting Schedule
f. Select Board Committee Nominations:

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i. Paul Peterson to the Trustees of Town Donations for a term to expire May 31, 2027
ii. Kristen Dahlmann as an associate member of the Historic District Committee for a term to expire January 1, 2025
iii. Andrea Foncerrada to the Concord Local Cultural Council for a term to expire May 31, 2027, with an exemption from APP #10
iv. Rebecca Bearse of 1295 Main Street Unit 2 to the Concord Cultural Council for a term to expire May 31, 2027
v. Glen Burlamachi of 43 Thoreau Street to the Economic Vitality Committee for a term to expire May 31, 2027

Ms. Rovelli was recognized by the Chair to request that with the Town Calendar changes that information on News and Notices for when the Warrant is posted; get the Warrant out as quickly as possible to allow time for budget review.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Consent Agenda without the meeting minutes of June 17, 2024 and with a correction noting that Andrea Foncerrada was appointed to the Concord Local Cultural Council (not the Cultural District Task Force).

Select Board Appointments

Select Board Appointments:

i. Jill Block of 50 Everett Street to the Hugh Cargill Trust Committee for a term to expire May 31, 2027
ii. Dan Gainsboro of 12 Mill Run Lane and Patrick McCurdy of 1100 Monument Street as Co-Chairs to the MCI Concord Advisory Board
iii. Brian Waterson of the Town of Carlisle to the Financial Audit Advisory Committee for a term to expire May 31, 2025 as the Concord-Carlisle Regional School Committee Representative

Town Manager Appointments:

i. Brad Dye of 1019 Main Street to the Climate Action Committee for a term to expire May 31, 2027
ii. Kathryn Hopkins of 444 Strawberry Hill Road to the Climate Action Committee for a term to expire May 31, 2027

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to appoint the following Select Board Appointees: Jill Block of 50 Everett Street to the Hugh Cargill Trust Committee for a term to expire May 31, 2027; Dan Gainsboro of 12 Mill Run Lane; Patrick McCurdy of 1100 Monument Street as Co-Chairs to the MCI Concord Advisory Board; Brian Waterson of the Town of Carlisle to the Financial Audit Advisory Committee for a term to expire May 31, 2025 as the Concord-Carlisle Regional School Committee Representative.

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Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to appoint the following Town Manager appointments: Brad Dye of 1019 Main Street to the Climate Action Committee for a term to expire May 31, 2027; Kathryn Hopkins of 444 Strawberry Hill Road to the Climate Action Committee for a term to expire May 31, 2027

Town Manager's Report

The Town Manager highlighted:

- Completion of sidewalk trip hazard repairs
- Ongoing repairs and upcoming paving on Stow Street
- Thanks to Departments for support of the 4th of July Picnic in the Park
- Plans to release a landfill RFP

Chair's Report

Chair Hartman reported on:

- **Chairs' Breakfast:** This monthly meeting provides updates across committees. The Finance Committee is now including summaries from these meetings in their materials to increase transparency and coordination.
- **Legislative Update:** The state legislative session is nearing its end. The Local Transfer Fee proposal is not expected to pass this year, which may impact affordable housing efforts. The Municipal Empowerment Act, which would enable local increases in meals and lodging taxes, was not included in the final bill but may be added to future legislation.
- **MCI Concord Advisory Board:** The board met twice recently, including a presentation by the DCAMM Commissioner. Upcoming public meetings on the reuse of the MCI site are expected starting in September, triggered by passage of the state budget. DCAMM is expected to offer the Wastewater Treatment Facility to the town within 30 days of budget enactment, prompting potential town meeting action.
- **250th Countdown Event:** The upcoming event on August 11 at the Concord Museum will mark 250 days until April 19, 2025. It includes a lantern parade and other community activities.

Select Board Liaison Reports

Liaison Reports included the following updates:

- **Concord Middle School Building Committee:** The construction project is proceeding on time and within budget.
- **Town Meeting Study Committee (TMSC):** The committee continues its work evaluating possible changes to the town meeting process, including hybrid participation.
- **Warner Pond Task Force:** The group is refining several management options including dam removal, dredging, and hybrid restoration. The process includes evaluating costs and environmental impact.

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- **Concord Municipal Affordable Housing Trust (CMAHT):** The Trust is preparing for a July 22 presentation to the Select Board. It is also planning a roundtable in August. Current efforts include funding three affordable housing units and updating the Housing Production Plan.
- **Economic Vitality Committee (EVC):** The Planning Board is considering updates to zoning bylaws regarding parking minimums. This has potential implications for business development, housing affordability, and transportation policy.
- **Hanscom Area Issues:** Concord's UFPS study showed elevated air pollutant levels in areas near Hanscom Field. Public comments have been submitted on multiple planning documents, including an environmental impact report and five-year plan. A new representative to the Hanscom Field Advisory Commission is also being sought.
- **2229 Main Street Task Force:** The group is making progress on its charge and expects to deliver a report by October 31.

Update on Sister City Nanae, Japan Delegation Visits

Mike Lawson reported that a Nanae delegation will visit Concord in October, and a reciprocal Concord delegation is planned for June 2025.

- A delegation from Nanae, including adults and school-aged children, will visit Concord from October 26 to early November 2024. The group will be hosted by local Concord families.
- In June 2025, a reciprocal visit to Nanae is being planned. The visit will include representatives from the Town Manager's Office, Select Board, School Department, and interested community members. The trip typically includes a stop in Tokyo and potentially a visit to Sapporo, which has historical agricultural connections to Concord through the Wheeler family.
- Lawson noted the strong cultural and agricultural ties between the communities, such as shared interests in hydroponics, mushroom farming, and apple cultivation. Engagement from Concord's Agricultural Committee and school representatives is encouraged.
- Outreach to past host families and Nanae Network members is underway to support both exchanges and promote long-term relationship building.

Public Hearing for a Grant of Location Request for a Gas Main Petition for National Grid located at 1-150 Lexington Road

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to open the Public Hearing.

Mary Mulroney of National Grid presented the request. Concerns were raised about project timing due to 250th events. The project must be completed by October 31, 2024.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to close the Public Hearing.

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Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Grant of Location request for National Grid at 1-150 Lexington Road in accordance with the conditions provided by Concord Public Works in the Select Board meeting packet and that the work be completed by October 31, 2024.

Budgetary Update from the Concord250 Executive Committee and Discussion of the Creation of a Concord250 Town Gift Account

Gary Clayton, Concord250 Executive Committee Co-Chair, presented the first monthly budget report and proposed creation of a gift account for the 250th efforts. The board requested clearer definition of spending parameters and unexpended fund disposition. The discussion of the gift account would continue at a subsequent Select Board meeting.

Joint Meeting with the Select Board and Finance Committee

A. Recreation Revolving Fund Discussion covered:
- Fund balance appropriateness
- Asset inventory and liabilities
- Fund policy and expenditure planning
- Analysis timeline to report by end of summer

B. Recreation Facilities Study Key findings:
- High usage and satisfaction rates
- Action items include studies on field and aquatic facility use

C. Peabody School The Recreation Commission assessed the Peabody site, noting primary value in the fields.

D. CCHS Field Discussion on improving turf field usage and forming a working group across departments.

E. PILOT Agreements Introduced policy development approach. Lois Wasof volunteered from Finance Committee to participate. The policy would consider financial and in-kind contributions and town service data.

F. Capital Planning Tiering Discussion on:
- Consistency between school and town Tier 1 capital treatment
- Timing for early alignment in the budget process
- Scheduling joint meetings in August and September

G. Town-Owned Property List Deputy Town Manager presented categorized property list.

Discussed:
- Properties in transition
- Capital planning considerations

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- Creating a space needs matrix and future uses

Discuss and Vote on Fiscal Year 2025 Select Board Goals

The Select Board reviewed and amended the FY25 Goals document. Key edits included:

- Expanding DEI language
- Clarifying goals related to infrastructure funding, land use planning, and PILOT agreements
- Removing specific target dates from climate actions
- Correcting typographical errors and reordering goals for clarity

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Select Board goals as discussed during the meeting.

Adjournment

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to adjourn the meeting at 9:45 PM.

Meeting Materials:

Select Board Meeting packet July 8, 2024

Select Board Meeting recording July 8, 2024

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Town of Concord
Select Board
Minutes
September 23, 2024

Pursuant to notice duly filed with the Town Clerk, the Concord Select Board convened in a meeting both in-person at 22 Monument Square on the 2nd floor in the Select Board Room and via Zoom at 6:00 PM on September 23, 2024.

Present were: Mary Hartman (Chair), Mark Howell (Clerk), Terri Ackerman, Wendy Rovelli, Cameron McKennitt

Call to Order

Ms. Hartman opened the meeting at 6:00 PM. Mr. Howell confirmed that all members were present.

Public Comment

Michael Williams of 1284 Sudbury Road reflected on the past year's community engagement and Select Board actions. He discussed middle school naming, signage, tax easements, housing, and cultural recognition, emphasizing the need for inclusive and values-based policies. Drawing on personal history with the Negro Travelers Green Book, he urged that language used in town policies, particularly the flag policy, should not be restrictive but reflect community ideals.

Consent Agenda

a. Meeting Minutes: August 19, 2024
b. Town Accountant Warrants: September 2, 2024; September 6, 2024
c. Gift Acceptance: Fidelity Charitable Donor Fund Grant for the Concord Council on Aging Gift Account on behalf of the Leigh Family Gift Fund in the amount of $1,000.
d. Select Board Appointments:
    i. Chris LaFrance, of 805 Barrett's Mill Rd., to the Economic Vitality Committee for a term to expire May 31,2027.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Consent Agenda.

Approval of Previous Minutes

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the meeting minutes of December 2, 2023 – Annual Town Meeting Preview Meeting and April 16, 2024.

Discussion and Approval of Early Voting Hours for November 5, 2024

- Proposed hours: October 19–25 from 8:30 AM–12:30 PM.
- Second week to follow normal business hours.
- Absentee voting remains available throughout.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve to early voting hours as discussed during the meeting.

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Town of Concord
Select Board
Minutes
September 23, 2024
Town Manager's Report

Town Manager Kerry Lafleur reported on:

- Main Street paving nearly done; crosswalk striping to follow.
- Harvey Wheeler ramp and stair project out to bid.
- Baker Avenue culvert failure identified; design underway using ARPA funds.
- Quarterly ARPA reports to be shared starting October.
- No detection of Triple E in latest mosquito testing.
- Gerow Park pavilion complete, awaiting occupancy certificate.
- Five-year paving plan proposed; will use debt financing and prioritize key intersections: Kenny Dunn Square, Haywood Meadow, and Sudbury Road/Stow Street.

Chair's Report

Chair Hartman reported on:

- RTE Forum scheduled for September 30 with slides to be posted ahead of time. Community comments expected to dominate discussion.
- DCAMM forum on MCI Concord saw robust attendance—80 in person, 160 online. More engagement events planned.
- League of Women Voters forum scheduled for November 1. Hartman will participate in a joint session with other town committees this week.
- Ethics training scheduled for September 25.
- Fire Chief to present at FinCom regarding ALS grant; quorum of the Board not expected.
- Chair to attend MMA conference in Devens.
- Feedback on Select Board liaison roles being gathered via questionnaire; draft to be shared with members.
- Select Board goals to be revisited in November to assess alignment with capacity and current progress.

Liaison Reports

Liaison reports included the following updates:

- Town Meeting Subcommittee working on resident survey and forums, first on December 2.
- Noted distinction as seated member (not liaison) on Concord Middle School Building Committee, Warner Pond Task Force, and MCI Advisory Board.
- Middle School construction at 70% completion. HVAC, envelope, and power progress noted. Saturday work and change order for project management approved.
- Warner Pond Task Force reviewing dam removal options.
- MCI Advisory Board subdivided into subgroups; first report due October 7. Public engagement session on November 1.
- Personnel Board finalizing charge and preparing November 4 presentation. Role clarified due to charter status.

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- Board of Health updated mosquito advisory after Saturday emergency meeting.
- Concord received $25,000 grant for 250th programming on Patriots of Color.
- Planning Board approved Blue Mercury special permit.
- MBTA compliance challenges ongoing; planning staff working with state on contiguity requirement.
- Thoreau Residences ZBA hearing postponed.
- School Committee facing budget pressures from out-of-district placements.

Discuss and Vote to Approve Verrill Farm Pavilion Project

Steve Verrill and Delia Kaye presented a proposal to replace a longstanding event tent with a permanent pavilion under the Agricultural Preservation Restriction (APR). The proposed structure would measure 40 by 60 feet and be partially enclosed, offering protection from the elements while allowing open views of the farm. It is intended to support farm-to-table dinners and other community events. Kaye confirmed that the APR permits such construction for agricultural and retail purposes. State approval has been preliminarily granted, and no Planning Board review is necessary.

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **voted**: to approve the Verrill Farm Pavilion Project as discussed during the meeting.

Discuss and Approve Bond Sale Authorization

Assistant CFO Elizabeth Rourke shared that $39.561 million in bonds were issued following a competitive sale that drew 14 bids. Key Bank Capital Markets submitted the winning bid with a true interest cost of 3.45%. Most of the proceeds will fund the middle school construction, with $35 million allocated to the project. A net premium of $2.83 million was also received, which will cover issuance costs and allow for the full payment of other smaller authorizations, including road improvement and parking lot work. The Board authorized the Treasurer to accept the bonds and approved accompanying legal documentation.

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **voted**: to approve the Bond Sale Authorization and authorize the Treasurer to accept bonds.

Common Victualler Application for Mark Pesce of the Pesce Network for a new Dunkin location at 794 Elm Street

Nicole Sullivan, representing the Pesce Network, presented a request for a common victualler license for a new Dunkin location at 794 Elm Street. The store is expected to open in mid-October, delayed slightly due to Verizon's pending relocation of a utility pole needed to complete the power connection. The design and layout will reflect the “next generation” Dunkin store concept, similar to the Thoreau Street location. A question was raised about potential traffic issues stemming from the store's proximity to Route 2; however, it was noted that these concerns

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were addressed previously during site plan review. The proposed hours of operation are 4:00 AM to 11:00 PM.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Common Victualler License for Dunkin at 794 Elm Street.

Discuss and Approve Change of Manager Liquor License Application for Nosh by Concord Market

Attorney Jim White and Keir Weinberg presented:

- Concord Market owns Nosh, intends to operate it as event space with catering and bar service.
- Plans include community events and culinary experiences.
- Proposed change of manager to Keir Weinberg.
- Kitchen nearing readiness; Board of Health looped in.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Change of Manager Liquor License application for Nosh by Concord Market.

Update from Recreation Director on Rec Revolving Fund and Beede Enterprise Fund

Jessica Porter, Leigh Jackson, and Jenny Sardo gave updates on the Rec Revolving Fund and Beede Fund. The Rec Fund ended FY24 at $2.08 million, with a long-term goal of $1 million. FY25 programs are well enrolled. Maintenance cost-sharing with Public Works will begin this year. The Beede Fund ended FY24 at $4.67 million. Long-term planning includes roof replacement and energy-related projects.

Discuss and Vote to Accept Updated App #16 Flag Raising Policy

The Board discussed draft policy revisions. Debate focused on whether ceremonial flags on light poles should be authorized by the Select Board or managed administratively. Public comment encouraged broad use of flags to celebrate community. The Board tabled the item for future discussion.

Discuss Town Manager's Annual Evaluation Compilation

Jessica Porter presented the composite review:

- Overall score: 2.287 (Satisfactory).
- Strengths noted: state advocacy, capital forecasting, leadership under pressure.
- Areas for growth: strategic planning, communications, and clearer performance metrics.
- Town Manager expressed appreciation for team efforts and committed to improved communication and goal alignment.

Upon a motion duly made and seconded, it was UNANIMOUSLY

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voted: to accept the Town Manager's evaluation, schedule a contract review for October 7, 2024 at 5:00 PM, and schedule a Fiscal Year 2025 compensation discussion on October 7, 2024 at 5:00 PM.

Discuss and Accept FY25 Town Manager Goals

Item was introduced but tabled due to time constraints.

Dog Arbitration Update Extension

Kerry Lafleur, Town Manager reported that:

- Traditional mediation unsuccessful.
- C4RJ restorative justice model engaged; both parties agreed.
- Request for deadline extension to October 31 approved.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to grant an extension until October 31, 2024.

Adjournment

Ms. Hartman adjourned the meeting at 9:04 PM.

Meeting Materials:
Select Board Meeting Packet for September 23, 2024

Select Board Meeting Recording for September 23, 2024

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Town of Concord
Select Board
Minutes
September 30, 2024

Pursuant to notice duly filed with the Town Clerk, the Concord Select Board convened in a meeting both in-person at 22 Monument Square on the 2nd floor in the Public Hearing Room and via Zoom at 6:00 PM on September 30, 2024 for the Residential Tax Exemption Forum.

Present were: Mary Hartman (Chair), Mark Howell (Clerk), Terri Ackerman, and Cameron McKennitt

Call to Order and Opening Remarks

The Select Board Residential Tax Exemption (RTE) Forum was called to order at 6:00 PM with a quorum present. Chair Mary Hartman welcomed attendees and outlined the purpose of the forum: to review the implementation of the RTE, clarify common questions, and provide an opportunity for public discussion. She noted that the Board had voted in November 2023 to adopt a 10% Residential Tax Exemption under Massachusetts General Laws, one of the few available mechanisms to adjust the property tax structure. The exemption was intended to promote equity, allowing more residents of varying income levels to remain in Concord, and reflecting the community's long-standing goals of inclusivity and diversity in housing. Hartman referenced the Town's history of tax fairness studies and described this forum as a chance to reflect on the exemption's first year in practice.

Presentation by the Town Assessor

Town Assessor Meredith Stone gave a detailed presentation on the mechanics and impact of the Residential Tax Exemption in Concord. She began by explaining that the RTE is authorized by Massachusetts General Law (Chapter 59, Section 5C) and has been available to municipalities since 1979. The exemption shifts the tax burden within the residential property class—specifically from owner-occupied properties of more modest value to higher-value homes, second homes, and non-owner-occupied residences such as rental units or vacant land.
In FY24, Concord adopted the exemption at the 10% level. This translated to a valuation credit of $142,143.72 and an average tax bill reduction of $1,877.21 for eligible properties. The Assessor's Office implemented the exemption and managed the application process. Approximately 3,702 exemptions were granted out of a pool of 5,616 potentially eligible residential properties.

Stone reviewed the town's broader history of tax relief programs:

- From 2001–2014, Concord annually voted to double State statutory exemptions, and this increase was made permanent in 2015.
- The Community Preservation Act surcharge, adopted in 2004, included exemptions for income-eligible homeowners.
- Interest rates on property tax deferrals were reduced from 8% to 4% in 2006.
- Income thresholds for exemptions were aligned with the State's Circuit Breaker limits in 2009.
- The Town added cost-of-living adjustments for certain senior exemptions.
- The Senior Means-Tested Exemption, developed in 2016 and made permanent in 2022, remains in effect.

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Stone presented FY24 RTE data in more detail:

- The "break-even" assessed value was $2,145,997. Properties below this value saw a tax reduction; properties above took on a larger share of the tax burden.
- Of the 3,702 exemptions granted, 3,263 were for properties assessed below the break-even point and 439 above it.
- Approximately 88% of exemptions were below the break-even point.
- Several examples were shown to illustrate the practical impact of the exemption across a range of property values, including live examples of actual bills.

She explained that while 4,000 applications had been anticipated, slightly fewer were received. The difference, roughly $500,000, would roll into Free Cash. Stone emphasized that qualified residents need only apply once, as long as the property remains their primary residence. Additional context was provided on the local tax rate. In FY24, Concord's residential tax rate was 13.13, slightly higher than the commercial/industrial/personal rate of 12.24 due to the RTE's redistribution effect. For comparison, the FY23 rate was 12.96, and rates from FY19–FY22 were in the $14 range. Rate changes were also influenced by post-pandemic property sales and valuations.

In response to questions, Stone shared that renters do not qualify for the exemption, as it applies to homeowners, though landlords residing in qualifying properties could apply. Approximately 25% of Concord households are rentals. The total amount of tax shifted to the above break-even group was not readily available but could be calculated. She noted that FY25 property valuations are underway and projected to increase 4–5% on average, a smaller jump than the previous year. There is no additional middle school debt scheduled to come online in FY25.

Stone closed by offering to provide one-on-one support for residents who have questions about their specific tax bills.

Public Comment

The forum then transitioned to public comment. Residents were invited to share their perspectives, with speakers asked to limit remarks to three minutes. A range of opinions were expressed, reflecting the complexity of the issue and the diversity of experiences in the community.

Some speakers described how the exemption provided meaningful relief and made it possible for them to continue living in Concord, particularly in moderately priced or long-owned homes. Others questioned the fairness of the policy, raising concerns about renters, unintended financial impacts, or perceived lack of detailed analysis prior to implementation. A number of commenters discussed broader challenges facing the town—rising municipal spending, affordability, housing diversity, and tax equity—and proposed ideas such as creating a study committee, developing more progressive tax tools, or increasing commercial revenue.

Several residents referenced Concord's limited legal options under state law and emphasized the need for long-term planning and dialogue. Others provided personal anecdotes—ranging from

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long-time homeowners facing high tax burdens to newer residents experiencing benefits under the current system.

Recurring themes included:

- The desire to support seniors, young families, and long-term residents.
- Concern over the treatment of rental units and renters.
- Debates over whether the RTE was regressive or equitable.
- Suggestions to explore income-based models or alternative revenue strategies.
- Calls for more data, community discussion, and transparency around fiscal policy decisions.

The Assessor and members of the Select Board were thanked for organizing the forum and offering residents the chance to share their views.

Closing Remarks

Chair Mary Hartman thanked the community for their thoughtful participation, both in person and via Zoom. She reiterated the importance of ongoing dialogue and emphasized the Board's legal limitations under Massachusetts law. She encouraged any resident who had not had a chance to speak, or who wished to submit additional thoughts, to send a letter or email to the Select Board. Hartman also reminded residents that the Assessor's Office remains available to answer individual tax questions.

Adjournment

Chair Hartman adjourned the meeting at 8:00 PM.

Meeting Materials:

Select Board Recording for September 30, 2024 – Residential Tax Exemption Forum

Select Board Meeting Packet for September 30, 2024 – Residential Tax Exemption Forum-

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Town of Concord
Select Board
Minutes
October 7, 2024

Pursuant to notice duly filed with the Town Clerk, the Concord Select Board convened in a meeting both in-person at 22 Monument Square on the 2nd floor in the Town House, Select Board Room and via Zoom at 5:00 PM on October 7, 2024.

Present were: Mary Hartman, Select Board Chair; Mark Howell, Select Board Clerk, Terri Ackerman, Cameron McKennitt, and Wendy Rovelli

Call to Order

The meeting was called to order at 5:05 PM.

Executive Session

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to enter an Executive Session under M.G.L. Chapter 30A, Section 21(2) to conduct strategy sessions in preparation for contract negotiations concerning the Town Manager's FY25 compensation and for the Open Session meeting to resume at 6:00 PM.

Roll Call Vote:
Ms. Hartman – Aye
Mr. Howell – Aye
Ms. Ackerman – Aye
Ms. Rovelli – Aye
Mr. McKennitt – Aye

Open Session

The Board reconvened in open session at 6:00 PM.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Town Manager's FY25 compensation package, which includes a 2.5% Cost of Living Adjustment (COLA) and a 3.9% merit bonus.

Public Comment

Tracy Morano commended recent school events, including Kicks for Cancer and the Mighty Moose race, both of which drew large crowds and raised substantial funds for cancer research.

Consent Agenda

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Consent Agenda.

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Town of Concord
Select Board
Minutes
October 7, 2024
Committee Appointment

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to appoint James A. Smith of 14 Edmonds Road to the Natural Resources Commission for a term ending May 31, 2027.

Town Manager's Report

Town Manager Kerry Lafleur provided an update on:

- Several staff members are assisting with Hurricane Helen recovery efforts under FEMA deployment.
- Two CMLP line workers were sent to South Carolina for mutual aid.
- Amalia McCaffrey was appointed Interim Chief Information Officer.
- Approximately 30 individuals attended a recent state ethics training session.
- Roadwork continues through November, including work on Channing Road, Temple Road, Isaac Davis Road, and others.
- A nurse has been hired at the Council on Aging to provide part-time services.
- The Town continues to analyze discrepancies in rental housing data shared at the RTE forum.
- Staff may be invited to a future meeting to discuss barriers to growing the commercial tax base.

Chair's Report

Chair Mary Hartman reported on:

- A December 16th discussion is scheduled on commercial development barriers.
- Future agenda items include:
    - October 21: Review of FY25 Select Board goals.
    - November 4: Review of draft PILOT policy.
    - December 2: Committee liaison feedback.

Liaison Reports

Board members reported on the following topics:

- The 2229 Main Street report is nearing completion, with a final report expected soon.
- The Financial Audit Advisory Committee completed its review of the region's financial audits.
- The Planning Board is advancing a Town Meeting article to increase the by-right size for Accessory Dwelling Units to 1,000 square feet in response to state legislation. Parking bylaw updates are underway, with consultant support, to evaluate parking regulations near transit.
- The Climate Action Committee is evaluating a proposed solar requirement for new construction and collaborating with the Transportation Advisory Committee on the environmental impacts of traffic recommendations.
- Wastewater capacity was discussed, noting current connection fees and competition between business and housing needs.

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- The flag policy subcommittee will reconvene, and a draft policy regarding light pole holders is under review.
- The Warner Pond Task Force shared a preliminary proposal, and short-term action planning is progressing.

Town Manager Goals

The Town Manager presented a final draft of FY25 goals. Edits included clarifications on DEI implementation planning, communication strategies, and realistic expectations for projects dependent on staffing or funding. A motion to adopt the FY25 Town Manager goals passed unanimously.

Discuss Update on Ambulance ALS Presentation at FinCom

Fire Chief Tom Judge, Assistant Fire Chief Brian Whitney, Dr. Ryan Kring (Medical Director), and Lt. Peter Ostroskey presented an update on the proposal to transition Advanced Life Support (ALS) services from a third-party provider (Pro EMS) to an in-house model managed by the Concord Fire Department. The current system has experienced diminished response times and limited paramedic availability due to increased call volume. The proposed change would align Concord with neighboring towns such as Lexington, Acton, and Sudbury that staff paramedics directly on ambulances.

The presentation included a comparison of ALS response time benchmarks, noting that Concord currently meets the 8-minute ALS response standard only 53% of the time, compared to over 80% for Basic Life Support (BLS). Bringing ALS in-house is expected to significantly improve this metric. Financial projections estimated that transitioning to an in-house model could generate approximately $487,000 in additional annual revenue by FY27, with about $300,000 in additional costs, largely tied to salary differentials and supplies. Existing staff will be trained as paramedics under a FEMA grant.

The Board was supportive of a request to use ARPA funds to purchase equipment needed to implement the ALS service, specifically a cardiac monitor and IV pump. Board members acknowledged the importance of improving emergency response and commended staff for securing federal grant funding to support the transition.

Discuss MCI Concord Advisory Board Q1 Update

Dan Gainsboro and Patrick McCurdy provided an update on the MCI Advisory Board's structure and early work. Subcommittees are active, and community engagement is a priority. Clarification on roles, planning support, and funding allocation was discussed. The Board expressed interest in more frequent updates.

Evaluate Town-owned Properties for Possible Reuse or Disposition

Deputy Town Manager Megan Zammuto discussed the following:

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- **Peabody School Appraisal:** The Board authorized use of the land fund for an appraisal of three parcels, evaluating various future use scenarios. The motion passed unanimously.
- **Harrington House:** Staff is conducting an existing conditions analysis to inform potential future uses. A full menu of options will be presented at a later date.

General discussion on the broader review of Town-owned property followed. An update is expected at the October 21 meeting.

Adjournment

A motion to adjourn the meeting was made and seconded. The motion passed unanimously. The meeting adjourned at 8:40 PM.

Meeting Materials:

Select Board Meeting Recording October 7, 2024

Select Board Meeting Packet October 7, 2024

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Town of Concord
Select Board Meeting and Public Hearing
Minutes
April 14, 2025

Pursuant to notice duly filed with the Town Clerk, the Concord Select Board convened in a meeting both in-person at 22 Monument Square on the 2nd floor in the Town House Hearing Room and via Zoom at 6:00 PM on April 14, 2025.

Present were: Mary Hartman, Select Board Chair; Mark Howell, Select Board Clerk, Terri Ackerman, Wendy Rovelli, Cameron McKennitt

Call to Order

Select Board Chair Mary Hartman called the meeting to order at 6:00 PM.

Public Comment

Tanya Gailus of 62 Prescott Road requested more open Select Board discussions before drafting committee charges and suggested including natural preservation and Article 23 of Town Meeting 2018 in future considerations for the Climate Action Committee charge.

Kathi Anderson, Executive Director of the Walden Woods Project, submitted a letter signed by 28 Concord residents to the Select Board. The letter requests discussions between the Select Board, Mass Department of Conservation and Recreation (DCR), and the Walden Woods Project. Ms. Anderson discussed the importance of the restoration and preservation of the town municipal property at 759 Walden Street. She requested that the former landfill site be included in the newly formed Land Use Matrix Committee scope and that concurrent discussions commence soon.

Consent Agenda

Consent Agenda:

i. Minutes: March 24, 2025
ii. Town Accountant Warrants: March 6, 2025; March 10, 2025
iii. Letter to Massachusetts Delegation re: Funding 250th FY25 State Supplemental Budget Bill H. 4003
iv. Proclamations:
- Public Safety Telecommunicators Week, April 13-25, 2025
- Administrative Professionals' Day – Wednesday, April 23, 2025
v. Gift Acceptances:
- Concord Lumber to the Town Fire Department for equipment value amount $2,103.89
- The Garden Club of Concord to the Town for Arbor Day in the amount of $725.00
- Trustees of Town Donations to the Town 250 Gift Fund in the amount of $1,200.00 for an engineering evaluation of the Monument Square flagpole
- Martha Mattison Curran to the Town 250 Gift Fund in the amount of $500.00 for the 1775 Witness House Flag project
- Concord Academy to the Town 250 Gift Fund in the amount of $10,000.00
vi. Tour Guide License: Jake Edwards Antriasian

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vii. One Day Liquor Licenses:

- All Alcoholic Beverages for Sara Killelea of Concord Country Club for events at Concord Country Club, 246 ORNAC:
  Wednesday, July 9, 2025 from 12:00 PM – 10:00 PM
  Saturday, September 6, 2025 from 11:00 AM – 11:00 PM
  Wednesday, September 24, 2025 from 12:00 PM – 10:00 PM
  Tuesday, October 7, 2025 from 12:00 PM – 11:00 PM
  Friday, November 7, 2025 from 3:00 PM – 11:00 PM
- All Alcoholic Beverages for Lauren D'Agostino of Susan Lane Events for the Anderson Family Reunion at Nashoba Brooks Discovery Barn, 200 Strawberry Hill Road on Saturday, May 10, 2025 from 6:00 PM – 10:00 PM
- Wines & Malt Beverages Only for Merrill Genoa of Concord Academy for the Concord Academy Reunion & Alumni Weekend at Concord Academy, 166 Main Street:
  Friday, June 6, 2025 from 5:30 PM – 10:00 PM
  Saturday, June 7, 2025 from 5:00 PM – 10:00 PM
- Wines Only for Olivia Boger of Runway for Recovery for the Love Local Concord Event on Walden Street (between Main Street and Hubbard Street) on Thursday, May 29, 2025 from 6:30 PM – 8:30 PM
- Malt Beverages Only for Allison Shilling of the Concord Museum for the Paul Revere's Bike Ride for the Concord Museum at Concord Museum, 53 Cambridge Turnpike on Saturday, May 17, 2025 from 11:30 AM – 2:00 PM

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Consent Agenda

Select Board Appointments

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to reappoint Anna Feldweg of 343 Commonwealth Avenue to the West Concord Advisory Committee for a term to expire April 30, 2028; reappoint Barbara Morse of 1975 Main Street to the West Concord Advisory Committee for a second term to expire April 30, 2028.

Discuss and Vote to Approve the Climate Action Committee Charge

Wendy Rovelli, the liaison for the Climate Action Committee, presented the requested change to the Select Board. The requested change was a simple one: to reduce the size of the committee from nine members to seven. Ms. Rovelli noted two openings, meaning that if the size is reduced to seven, they will not need to add any new members.

Tanya Gailus had made comments earlier about including natural preservation in future considerations when the charge is revisited, and Wendy stated she would forward those comments to the committee.

Ms. Hartman, Select Board Chair commented that revisiting the charge would be a good opportunity for the committee to step back and look at it again. Mr. Howell noted that the town website listed more than seven members (closer to 10), which was identified as a typo that is being fixed.

A motion was made to approve the amended Climate Action Committee Charge as published, which was seconded.

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **voted**: to approve the Climate Action Committee Charge as included in the Select Board meeting packet.

Chair's Report

Vote to Approve Town Manager's 3-year Contract Renewal

The final vote to execute a non-union personnel agreement must occur in open session. A public body may enter executive session under Purpose 2 to "conduct strategy sessions in preparation for negotiations with nonunion personnel or to conduct . . . contract negotiations with nonunion personnel." G.L. c. 30A, § 21(a)(2). This purpose allows a public body to meet in executive session to discuss its strategy with respect to negotiating a contract with non-union personnel, and to engage in direct negotiations with non- union personnel. However, the executive session purpose does not permit the public body to take a final vote to execute such a contract behind closed doors. While a public body may agree on terms with individual non- union personnel in Executive Session, the final vote to execute such agreements must be taken by the public body in Open Session. See OML 2011-56; OML 2011-44; OML 2011-28.

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **Voted**: to approve Town Manager's 3-year Contract Renewal.

Town Manager's Report

Town Manager, Kerry Lafleur reported on:

250th Celebration: Final preparations are underway. Ms. Lafleur recognized the town's GIS team for creating an interactive mobile app to aid preparations. Also noting the Fire Department is pausing open burning from April 16th-21st due to 250th event preparations.

Peabody School Transfer: Ms. Lafleur requested further discussion with the Select Board at their next meeting. It was mentioned that the Peabody school operating costs had previously

been moved out of the school budget into a special appropriation. The Select Board decided to add this item to the April 28th agenda for further discussion.

Ms. Lafleur and Ms. Rovelli reported that the School Committee is projecting an overage in the FY25 Excess and Deficiency (E&D) account beyond the allowable 5% maximum. Given this situation, the School Committee voted (on 4/10/25) to transfer $200,000 of the excess E&D to OPEB (Other Post-Employment Benefits) and another $200,000 to a capital stabilization fund and to concurrently increase the FY25 budget by the same amount. Ms. Lafleur confirmed that this action requires further notification to the approving body - if no action is taken within 45 days of receipt, the change is deemed approved. The Select Board will add this issue to the April 28, 2025 meeting agenda and determine whether Town Meeting action should occur.

Discuss and Approve Extension of Time to File the Comcast Preliminary Assessment of Denial

Jason Bulger, Director of The Concord Municipal Light Plant presented a request to extend the time to file the Comcast preliminary assessment of denial

Highlighting that this is the last extension needed. The final piece of information from Comcast was received recently and a public hearing and presentation are needed before approving the contract. The deadline for responding is April 19th . They aim to schedule the hearing in May 2025.

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **voted**: to Unanimous to approve the extension of time 5-0-0

Discuss and Approve Request to remove designation of 15-Minute Parking Space to Return General Public Parking

Mimi Graney, Economic Vitality Manager, presented a request to remove the designation of a 15-minute parking space in the middle of Concord Center and return it to the general pool of public parking. The space was intended to help facilitate turnover in the area, particularly after the removal of parking meters and roadway construction.

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **voted**: to Approve the removal of the designation of a 15-minute parking space as indicated.

Discuss and Approve Request to Accept Gift from the Green Thumbs for Purchase and Installation of a Teak Bench

Mimi Graney also presented a request concerning West Concord Green Thumbs Bench and Beautification Efforts. The Green Thumbs group, known for maintaining flower beds throughout the neighborhood, wished to donate a teak bench. The bench would be placed at Mandreoli Park next to two other existing teak benches, matching their style, and would feature a plaque indicating it was donated by Green Thumbs.

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Ms. Graney noted increasing interest in age-friendly benches and donations for beautification efforts in West Concord, especially following the installation of benches in Concord Center.

Ms. Graney further mentioning to facilitate this, she proposed creating a general "beautification account" that could receive this donation from the Green Thumbs and other potential future donations for beautification projects.

The Select Board moved to approve the request to accept the gift from the Green Thumbs for the bench

> Upon a motion duly made and seconded, it was
> **voted**: to Approve the request to Accept Gift from the Green Thumbs for Purchase and Installation of a Teak Bench.

Discuss and Vote on Revised Select Board Alcohol Rules and Regulations

Shannon McAndrew, Management Specialist, presented the proposed amendments about the town's Alcohol Rules and Regulations. The proposed amendments presented were identical to those originally put forward in March. To gather input, feedback was specifically requested from all liquor licensees in town, however, no feedback was received regarding the proposed rules or hours from any licensee, except for one question from SaltBox concerning the outdoor dining provision included in the new rules.

Ms. McAndrew summarized the two primary options for the alcohol rules:

- To standardize the hours of service within the rules and regulations
- To maintain the current practice of evaluating and voting on hours on a new application basis.

The standardized hours that had been discussed previously were 11:00 a.m. to 11:00 p.m. Monday through Saturday. Applicants could include requests for later hours in their applications, which the board could approve, as had been done for at least one existing establishment.

Mr. McKennitt raised concern about the potential impact of hours of service on parking availability, particularly in the town center, referencing related discussions from planning board hearings. This concern supported the preference for the 11:00 p.m. standard cutoff.

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **voted**: to approve the revised Select Board Alcohol Rules and Regulations.

Intermunicipal Agreement (Water Supply)

Alan Cathcart, Director of Public Works, presented a request to authorize the Town Manager to execute an Intergovernmental Agreement (IGA).

Key Points: This IGA is with other Metro West water suppliers to further study a conceptual long-range water supply plan identified by MWR, estimated at $1.2 billion collectively . It's critical for future water supply planning, addressing challenges like PFAS treatment and drought Concord was planning to do this independently . This would be funded through the water enterprise fund .

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to authorize the Town Manager to execute the Intergovernmental Agreement (IGA).

Presentation on Annual Town Meeting Warrant Article 41 – Citizen Petition: Zoning Bylaw Amendment: Personal Wireless Communications Facility

Mr. Dane presented a citizen petition article aiming to facilitate the improvement of cell service in Concord Center. The article proposes two specific changes to the existing bylaw:

- Allow the Zoning Board of Appeals (ZBA) to determine a significant gap in coverage exists without requiring a study by a qualified technical consultant.
- Allow the ZBA to approve a location not limited to the 2019 map.

The goal is to remove significant obstacles to solving the cell service problem. The ZBA would retain its discretionary powers . The responsibility to determine a significant gap would shift to the board . The proposed change would eliminate the requirement for a qualified independent study and advice from the planning board, providing more latitude. Discussion touched upon potential impacts on setbacks and height requirements. Concerns were raised about skipping setbacks/height requirements and whether the proposed change replaces the whole paragraph in the bylaw.

Annual Town Meeting Public Hearing on the following articles:

- Article 4 – Ratify Personnel Board Actions
- Article 5 – Ratify Personnel Board Classification and Compensation Plan
- Article 26 – General Bylaw Amendment: Leasing of Land by Select Board and Town Manager
- Article 27 – Remote Participation at Annual and Special Town Meeting
- Article 28 – Citizen Petition: Ranked Choice Voting
- Article 30 – Authorize Grant of Easement to Verizon – 835 – 923 Old Marlboro Road (Concord Middle School)
- Article 31 – Select Board to Accept Easements
- Article 35 – Citizen Petition: Protect Orchard House from Stormwater Runoff
- Article 36 – Citizen Petition: Ban Second-Generation Anticoagulant Rodenticides (SGARs)

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to open the Public Hearing.

Article 4: Ratification of Personnel Board Classification Actions

Bill Mrachek presented, requesting affirmative action. Notes adding Human Services Generalist to grade six. Explained necessity for maintaining job titles, salary ranges, attracting/retaining employees, and compliance.

Article 5: Ratification of Personnel Board Class and Compensation Plan

Bill Mrachek presented, requesting affirmative action. Notes the same addition as Article 4. Explained the objective and components of the plan.

Article 26: General Bylaw Amendment - Leasing of Land by the Select Board and Town Manager

Megan Zammuto presented, explaining the article authorizes the town manager, with select board approval, to approve land leases up to 30 years without town meeting approval, to enhance flexibility for longer-term leases like cellular infrastructure.

Article 27: Remote Participation at Annual and Special Town Meetings

Eric Van Loon presented on behalf of the Town Meeting Study Committee, explaining the article seeks a home rule petition to allow remote voter participation to make town meeting more inclusive. He outlined the process and survey results.

Article 28: Citizens Petition to Require Rank Choice Voting

Stephan Bader presented, seeking authorization for a home rule petition to allow Rank Choice Voting (RCV) in all local elections. He explained RCV mechanics and benefits.

Article 30: Authorize Grant of Easement to Verizon

Gail Dowd (online) presented, explaining the article formalizes an easement for underground copper cabling providing telecommunications services to the new middle school building. This is for service to the building, not wireless towers.

A**rticle 35:** Louis May Alcott's Orchard House Petition

Presented on behalf of the petitioner, the article urges town action to address stormwater runoff impacting the Orchard House from changes to Alcott Road.

Article 36: Town-Wide Ban of Second Generation Anti-coagulant Rodenticides (SGARs)

Gwen Shipley and Megan Sinclair presented, explaining SGARs are poisons that bioaccumulate and harm wildlife. They are seeking a home rule petition to ban their use town-wide by licensed professionals and discussed alternatives.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to close the Public Hearing.

Discuss Recommendations on Annual Town Meeting Warrant Articles and Discuss Motions for Select Board Sponsored Warrant Articles

The Select Board discussed their options: Recommend affirmative action, recommend no action, or recommend waiting until Town Meeting. They also noted the ability to revisit positions before town meeting. The Board aimed to finalize deferred positions by the May 5th meeting.

It was decided that assigning speakers would be done at a later meeting, likely May 5th, after positions are finalized

For full details around this review please visit the full recording link: Concord Select Board Meeting and Public Hearing: April 14, 2025.

Discuss Revised APP #10

Mr. McKennitt provided an update on proposed revisions to the appointments policy based on previous discussions, including data on multiple committee appointments and suggestions for improving the volunteer card process and communication.

The proposed language changes included clarifying participation expectations, addressing term limits, limiting the number of committees an individual can serve on, and removing language that committees shall not provide suggestions to the appointing authority.

No action was expected tonight. The Select Board provided feedback on various proposed changes, including the privacy of volunteer card information, the need for experienced members on statutory committees, and the importance of receiving committee recommendations during the appointments process.

Adjournment

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to adjourn the meeting at 9:30 PM.

Meeting Materials:

Select Board and Public Hearing April 14, 2025 Recording

Select Board Meeting Packet April 14, 2025

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Town of Concord
Select Board
May 5, 2025

Pursuant to notice duly filed with the Town Clerk, the Concord Select Board convened in a meeting both in-person at 22 Monument Square on the 2nd floor in the Town House, Select Board Room and via Zoom at 6:00 PM on May 5, 2025.

Present were: Mary Hartman, Select Board Chair; Mark Howell, Select Board Clerk, Terri Ackerman, Cameron McKennitt, and Wendy Rovelli

Call to Order

Select Board Chair Mary Hartman called the meeting to order at 6:00 PM.

Mr. Howell confirmed that all members were present.

Public Comment

Mark Gailus, 62 Prescott Road, commented on climate resiliency and further, the protection of natural systems, and that the Town consider joining the Massachusetts Ecosystem Climate Adaptation Network (massecan.org).

Consent Agenda

i. Minutes: April 14, 2025; April 28, 2025
ii. Town Accountant Warrants: April 22, 2025; April 24, 2025
iii. ARPA Update Report

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Consent Agenda except the meeting minutes of April 14 and April 28, 2025.

Discuss Flag Raising and Proclamation Requests

- Concord Pride Day – Saturday, June 7, 2025
- Juneteenth – Thursday, June 19, 2025

Mr. Howell opened the discussion on the flag raising and proclamation requests for Concord Pride Day and Juneteenth on behalf of the Diversity, Equity, and Inclusion Commission. Mr. Howell noted that these are the first requests since the Select Board enacted their new Flag Policy, and his understanding was that the Board member sponsoring the requests would present at one meeting, and the Board would vote on the requests at a subsequent meeting. Mr. Howell stated that the draft proclamations are in the meeting packet.

Mr. McKennitt asked if there are additional flags being flown for both requests.

Joe Palumbo, member of the DEI Commission, responded that the Commission's understanding was the first step of the process being to put forth the proclamation, then make the request for additional flags being flown.

The Board concurred that the vote on the flag raising request would be tabled until May 12, 2025.

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Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the proclamations for Concord Pride Day and Juneteenth as included in the Select Board meeting packet.

Committee Appointments

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to appoint Walter Clay of 675 Sudbury Road to the Historical District Commission as a full member for a term to expire January 1, 2030; to appoint Dorothy Ortner of 169 Thoreau Street #4 as the Town of Concord Representative to the Minuteman Vocational Technical School District for a term from July 1, 2025 - June 30, 2028.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve Town Manager appointment William Kemeza of 28 Davis Court to Natural Resource Commissioner for a second term ending June 1, 2028.

Discuss and Approve Doug White Gift Acceptance

Anthony Ansaldi, Chief Financial Officer, opened the discussion on the Doug White gift acceptance. Mr. Ansaldi noted that there was a successful bidding process, with seven (7) bids, with two (2) bids under budget, though all bids are still being evaluated. The Friends of the Concord-Carlisle Playing Fields will be providing a donation to fund the replacement of the turf field. Seth van der Swaagh, President of the Friends of the C-C Playing Fields, presented the Select Board with a check for the donation to cover the replacement of the turf field, with any unused funds being returned to the Friends or put into a Town-owned account to reserve the funds for future repairs/replacements.

Town Manager Kerry Lafleur noted that at the close of the project in the Fall, the Town will look into the partnership agreement for the fields.

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Gift Acceptance for the Doug White Fields from the Friends of the Concord-Carlisle Playing Fields in the amount of $1,490,390, with any unused funds returned to the Friends.

Discuss Status of Land Use and Action Plan

Chair Hartman opened the discussion on the status of land use and action plan. Ms. Hartman noted that the charge was approved for the Land Use Working Group, with a memorandum sent out to existing Town Boards/Committees to put their nomination forth as included in the charge. Ms. Hartman noted that the School Committee has asked to delay their nomination, as they would like their committee to turn over following the election, and they will join the work delayed, though all other nominations have been received besides the Select Board Member and At-Large Member. Ms. Hartman continued and noted an oversight in the charge of not including a nomination from the Planning Board and asked the Select Board their thoughts.

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Mr. McKennitt suggested adding a Planning Board representative and then adding an additional At-Large Member, so that there would be two total At-Large Members.

Ms. Rovelli noted that Paul Boehm has been nominated to join on behalf of the 2229 Main Street Task Force, and voiced concern as he would also be joining the Select Board soon, so there would be two Select Board members on the Working Group. Mr. McKennitt agreed.

Ms. Hartman and Ms. Rovelli both expressed interest in serving as the Select Board Member on the Working Group.

Ms. Hartman summarized that the Select Board will amend the charge to add a Planning Board representative and add an additional At-Large Member, and Ms. McAndrew will send all volunteer cards for At-Large candidates to the full Select Board.

Discuss Warrant Article Recommendations

Article 13 – Amenities Building

- Outstanding questions remain regarding cost and wastewater connection/capacity
    - Funding source
    - Public Works Commission to discuss wastewater connection/capacity further on May 15, 2025
    - The Board of Health provides the capacity planning
- Finance Committee voted recommending affirmative action 7 – 5 on this article

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to report on Article 13 – Amenities Building at Annual Town Meeting.

Article 28 – Citizen Petition: Ranked Choice Voting

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 28 – Citizen Petition: Ranked Choice Voting at Annual Town Meeting.

Article 32 – Betterments for Temporary Improvements to a Private Way – Darton and Dover Streets

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to report on Article 32 – Betterments for Temporary Improvements to a Private Way – Darton and Dover Streets at Annual Town Meeting.

Article 33 – MCI Concord – Planning

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 33 – MCI Concord Planning at Annual Town Meeting.

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Article 34 – Stormwater Enterprise Fund Expenditures

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 34 – Stormwater Enterprise Fund Expenditures at Annual Town Meeting.

Article 35 – Citizen Petition: Protect Orchard House from Stormwater Runoff

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to report on Article 35 – Citizen Petition: Protect Orchard House from Stormwater Runoff at Annual Town Meeting.

Article 36 – Citizen Petition: Ban Second-Generation Anticoagulant Rodenticides (SGARs)

- Meaghan Sinclair, Citizen Petitioner, noted that she and her Co-Petitioner Gwen Shipley have been conducting outreach with the agricultural and business communities regarding alternatives to SGARs and are will to speak with any of these groups on alternatives and pest implementation plans moving forward.
- Mr. McKennitt asked questions such as what are other neighboring communities doing and asked the Petitioners about data sources supporting the request for a ban. Mr. McKennitt also noted that a different route could be to start with a ban on Town-owned properties, rather than starting with a full ban for the whole Town.
- Concern was voiced regarding a full ban for the business, and more specifically, restaurant community.

Upon a motion duly made and seconded, it was
voted: to recommend affirmative action on Article 36 – Citizen Petition: Ban Second-Generation Anticoagulant Rodenticides (SGARs) at Annual Town Meeting.

The vote passed 3-1-1. Ms. Ackerman abstained, and Mr. McKennitt voted nay.

Article 45 – Zoning Bylaw Amendment: Planning Residential Development (PRD) Bonus

- Mr. McKennitt asked if this was an existing Town or State law, in which Ms. Rovelli responded it was an existing Town Zoning Bylaw.
- Mr. McKennitt also voiced concern regarding density, noting that the Town has two large affordable housing projects in the pipeline currently. Mr. McKennitt encouraged data-driven decision making.

Upon a motion duly made and seconded, it was
voted: to recommend affirmative action on Article 45 – Zoning Bylaw Amendment: Planning Residential Development (PRD) Bonus at Annual Town Meeting.

The vote passed 4-1-0. Mr. McKennitt voted nay.

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Article 48 – Authorize Expenditure of Revolving Funds under Mass. Gen. Laws 44 Section 53 E1/2

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 48 – Authorize Expenditure of Revolving Funds under Mass. Gen. Laws 44 Section 53 E1/2 at Annual Town Meeting.

Article 49 – Light Fund Budget and PILOT Payment

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 49 – Light Fund Budget and PILOT Payment at Annual Town Meeting.

Article 50 – Solid Waste Fund Budget

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 50 – Solid Waste Fund Budget at Annual Town Meeting.

Article 51 – Sewer Fund Budget

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 51 – Sewer Fund Budget at Annual Town Meeting.

Article 52 – Sewer Improvement Fund Budget

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 52 – Sewer Improvement Fund Budget at Annual Town Meeting.

Article 53 – Water System Expenditures

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 53 – Water System Expenditures at Annual Town Meeting.

Article 54 – PEG Access Fund Budget

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 54 – PEG Access Fund Budget at Annual Town Meeting.

Article 55 – Beede Swim and Fitness Center Enterprise Fund Budget

Upon a motion duly made and seconded, it was UNANIMOUSLY

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voted: to recommend affirmative action on Article 55 – Beede Swim and Fitness Center Enterprise Budget at Annual Town Meeting.

Article 56 – Appropriate and Transfer Balance of Parking Meter Fund

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 56 – Appropriate and Transfer Balance of Parking Meter Fund at Annual Town Meeting.

Article 57 – Unpaid Bills

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to recommend affirmative action on Article 57 – Unpaid Bills at Annual Town Meeting.

Discuss Draft Consent Calendar and Provide Input to Town Moderator

Town Moderator Carmin Reiss presented the draft Consent Calendar for Annual Town Meeting. The full draft is included in the Select Board meeting packet. Ms. Reiss noted that she plans to schedule two articles as high interest articles: Article 34 – Stormwater Enterprise Fund Expenditures for Tuesday and Article 46 – Citizen Petition: Zoning Bylaw Amendment: Continuing Care Retirement Community Overlay District for Wednesday.

The final version of the Consent Calendar will be published in the Annual Town Meeting Briefing Book and published online at www.concordma.gov/TM25.

Chair's Report

Ms. Hartman noted that on Monday, May 12th there will be an Executive Session, a presentation from the Finance Committee, a presentation on the PILOT Program, and a presentation from New England Deaconess Association on the Continuing Care Warrant Article. Additionally, there will be a Concord Housing Roundtable on Monday, May 19th featuring MCI Concord.

Town Manager's Report

Town Manager Kerry Lafleur presented highlights from the Weekly Operations Report from April 25, 2025.

Select Board Liaison Reports

- Ms. Rovelli provided a report included in the Select Board meeting packet.
- Mr. Howell provided an update on MCI Concord Advisory Board project updates.
- Mr. McKennitt provided an update on the Town Meeting Study Committee and a Concord Business Partnership meeting.

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Upon a motion duly made and seconded, it was UNANIMOUSLY **voted**: to adjourn the meeting at 8:35 PM.

Meeting Materials:

Select Board Meeting Packet for May 5, 2025

Select Board Meeting Recording for May 5, 2025

DRAFT

Town of Concord
Select Board
May 12, 2025

Pursuant to notice duly filed with the Town Clerk, the Concord Select Board convened in a meeting both in-person at 22 Monument Square on the 2nd floor in the Town House, Select Board Room and via Zoom at 5:00 PM on May 12, 2025.

Present were: Mary Hartman, Select Board Chair; Mark Howell, Select Board Clerk, Terri Ackerman, Cameron McKennitt, and Wendy Rovelli

Executive Session

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to enter an Executive Session to consider the value of real property as the chair declares that an open meeting may have a detrimental effect on the negotiating position of the public body: Discuss terms of a potential MOA between the Select Board and Deaconess Abundant Life regarding the proposed warrant article for a Continuing Care Retirement Community Overlay District.

Roll Call Vote:
Ms. Hartman – Aye
Mr. Howell – Aye
Ms. Ackerman – Aye
Ms. Rovelli – Aye
Mr. McKennitt – Aye

Open Session

Select Board Chair Mary Hartman called the Open Session meeting to order at 6:00 PM.

Mr. Howell confirmed that all members were present.

Public Comment

Diane Proctor, Sudbury Road, commented on two upcoming Public Forums hosted by the Concord-Carlisle League of Women's Voters to review Annual Town Meeting warrant articles. The forums will be on Wednesday, May 14th from 10:00 AM to 12:00 PM and Friday, May 16th from 10:00 AM to 12:00 PM at the Concord Free Public Library Goodwin Forum.

Don Kupka, Devens Street, expressed support for the AT&T Small Cell Application that the Town has received, noting that small cell is preferable to large cell towers in densely populated areas.

Jim Jackson, Old Marlboro Road, voiced concern regarding Article 46 – Citizen Petition: Zoning Bylaw Amendment – Continuing Care Retirement Overlay District. Mr. Jackson noted that the abutters only received updated materials from the citizen petitions this afternoon, so there has not been sufficient time for all to review ahead of this meeting. Mr. Jackson also asked if public comment would be available when the agenda item for Article 46 was taken up during this meeting.

DRAFT

Alice Daly, Wedgewood Common, commented on the positive work being done by the Town to assist homeowners with high taxes and prevent seniors from being forced out of Town due to the cost of living, but also asked what could be done to help those who rent.

Consent Agenda

i. Meeting Minutes: January 27, 2025; February 24, 2025; March 3, 2025; May 5, 2025
ii. Town Accountant Warrants: May 1, 2025
iii. Gift Acceptances: None
iv. One Day Liquor Licenses:
    a. Wines & Malt Beverages Only for Sara Killelea of Concord Country Club for events to be held at Concord Country Club, 246 ORNAC:
        - Thursday, July 17, 2025 from 12:00 PM – 8:00 PM
        - Friday, July 18, 2025 from 11:00 AM – 8:00 PM
    b. All Alcoholic Beverages for Sara Killelea of Concord Country Club for events to be held at Concord Country Club, 246 ORNAC:
        - Friday, August 1, 2025 from 11:00 AM – 11:00 PM
        - Saturday, August 2, 2025 from 11:00 AM – 11:00 PM
    c. Wines & Malt Beverages Only for Jennifer Verrill of Verrill Farm for events to be held at Verrill Farm, 11 Wheeler Road:
        - Wednesday, June 11, 2025 from 5:00 PM – 7:00 PM
        - Sunday, June 29, 2025 from 4:00 PM – 7:00 PM
        - Saturday, September 27, 2025 from 5:00 PM – 8:00 PM

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the Consent Agenda except the meeting minutes.

Committee Appointments

Upon a motion duly made and seconded, it was UNANIMOUSLY

- **voted**: to appoint Matthew Johnson of 21 Winthrop Street to the Concord Municipal Affordable Housing Trust for a term to expire May 31, 2027; reappoint Michael Lawson of 1695 Lowell Road to the Economic Vitality Committee for a second term to expire May 31, 2028; reappoint Allison Aley of 47 Warner Street as a full member to the West Concord Advisory Committee for a term to expire May 31, 2028.

Discuss and Vote Flag Raising Requests

- Concord Pride Day, Saturday, June 7, 2025
- Juneteenth, Thursday, June 19, 2025

Mr. Howell presented the request to raise flags for Concord Pride Day and Juneteenth, with the proclamations for these events discussed and approved at the last Select Board meeting on May 5, 2025. Mr. Howell's full memorandum request on behalf of the Diversity, Equity, and Inclusion Commission is included in the Select Board meeting packet.

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Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the flag raising requests for Concord Pride Day and Juneteenth as included in the Select Board meeting packet.

Discuss and Vote on Amended Land Use Working Group Charge

Chair Hartman presented an amended Land Use Working Group charge, with the amendments made to the membership composition:

- 2229 Main Street Advisory Task Force member shifted to Ex-Officio (non-voting) member
- Added a member of the Planning Board or their designee
- *Correction* of noting a member of the Recreation Commission or their designee (this was an oversight as not being included in the charge, not a new addition)

The Board acknowledged correspondence received regarding adding additional representations from the Natural Resources Commission, Climate Action Committee, and others, but acknowledged that the number of members needs to be kept concise in order to remain productive and that many of the proposed members can represent some of these other topics too (e.g., Planning Board representative being knowledgeable about Transportation Advisory Committee issues).

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to approve the amended Land Use Working Group charge as discussed during the meeting and included in the Select Board meeting packet.

Discuss and Vote on Concept of Limits for Deliberation at Annual Town Meeting

Carmin Reiss, Town Moderator, p resented potential concepts for limiting deliberation time at Annual Town Meeting based on the Town Meeting Study Committee's work. The committee suggested consulting with the Select Board regarding a possible rule to limit deliberation on main motions under an article to a set number of minutes (e.g., 15, 20, or 30 minutes). This limit would apply only to public comments from the floor and would not include presentations or motions to amend. This could be a formal motion or could be an informal approach where the Moderator monitors the time and asks for a sense of the meeting (how many people have made up their mind). If a clear majority are ready, the Moderator could encourage those at the microphones to sit down and take a vote without a formal call of the question.

The Select Board concurred with the Moderator taking an informal approach of deliberation being limited at 30 minutes per warrant article. There was no vote of the Select Board taken on this matter.

Discuss and Assign Presenters from the Select Board for specific articles at Annual Town Meeting

The Select Board discussed which warrant articles they would like to make statements on at Annual Town Meeting:

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- Article 8 – Debt Exclusion for Road Maintenance – Terri Ackerman
- Article 13 – Amenities Building – Wendy Rovelli, pending the Select Board's recommendation on the article at Annual Town Meeting
- Article 25 – Transfer of Peabody School and Appropriate Funds – Mark Howell
- Article 34 – Stormwater Enterprise Fund Expenditures – Cameron McKennitt
- Article 41 – Citizen Petition: Zoning Bylaw Amendment – Personal Wireless Communications facility – Cameron McKennitt
- Article 44 – Zoning Bylaw Amendment – Commercial Parking – Mary Hartman, if needed
- Article 45 – Zoning Bylaw Amendment – Planned Residential Development Bylaw – Wendy Rovelli, if needed
- Article 46 – Citizen Petition: Zoning Bylaw Amendment – Continuing Care Retirement Community Overlay District (CCRCOD) – Mary Hartman

There was no vote of the Select Board taken on this matter.

Discussion with Finance Committee representatives on the Reserve Fund

Representatives of the Finance Committee, including Eric Dahlberg, Chair, Don Koepka, and Lindsay Lis, presented on the Reserve and Stabilization Funds. Their full presentation is included in the Select Board meeting packet.

The discussion focused on the rationale for creating reserves, highlighting the need to smooth tax rate increases associated with "lumpy spending" on capital projects and reduce reliance on excess free cash for incidental purposes.

- **Types of Reserves: General Reserve Fund ("Rainy Day Fund"):** For emergencies, state aid reduction, or catastrophic loss. Target: 5-7% of the annual budget (state recommendation). Requires a two-thirds vote to access.
- **Special Purpose Reserves:** Tied to specific capital projects (e.g., DPW building, fire department, roads program). Goal: Avoid financing costs by saving in advance.
- **Debt Stabilization Fund:** General debt reduction, not tied to a specific project.

The Select Board voiced concern about the feasibility of reaching the recommended reserve targets (e.g., 5-7% for General Stabilization) given tightening budgets and potentially less accumulated free cash in the future as budgeting becomes more precise. Some Board members preferred a policy that actively allocates funds towards reserves as a prioritized goal, potentially through a small increase in budget guidelines if necessary, to demonstrate a commitment to achieving the targets for financial stability and bond rating. The Board acknowledged the need to revisit financial policies regarding reserves in the upcoming fiscal year (FY26 goals) and appreciated the Finance Committee's analysis and recommendations.

There was no vote of the Select Board taken on this matter.

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Presentation of the PILOT Program Action Plan and Revenue Forecast

Anthony Ansaldi, Chief Financial Officer, presented an update on the PILOT Program Action Plan. Mr. Ansaldi noted that outreach will involve sending letters to non-profit landowners, starting with larger institutions like Emerson Hospital, Middlesex School, and Concord Academy, with the goal of seeking voluntary compliance and cooperation. Mr. Ansaldi's full draft PILOT Program materials are included in the Select Board meeting packet.

The Select Board desired a more proactive approach than just sending letters and hoping for voluntary compliance and suggested following up promptly with larger institutions to schedule meetings and/or segmenting the outreach based on the size of the institution, with more direct engagement for the larger institutions. Mr. Ansaldi cautioned the Board that in researching other communities' approach to PILOT programs, it was recommended to treat all institutions in the same manner, so that institutions recognize a uniform and fair approach.

The Select Board concurred for the letter to be sent as included in the meeting packet and for Mr. Ansaldi to proceed with a more proactive approach. There was no vote of the Select Board taken on this matter.

Presentation on Article 46 – Citizen Petition: Zoning Bylaw Amendment – Continuing Care Retirement Community Overlay District (CCRCOD)

Chris Sintros and Attorney Mark Bobrowski of the New England Deaconess Association joined the Select Board to discuss Article 46, acknowledging the rapid pace of the process and ongoing discussions regarding a potential Memorandum of Agreement (MOA) with the Town.

Attorney Bobrowski noted changes made based on abutters' feedback, including:

- Commitment to a 40-foot setback
- Commitment to not building higher than 35 feet within the 40-foot setback abutting Old Marlboro Road
- Commitment to an additional setback requirement for multi-unit structures (5 or more units) abutting Old Marlboro Road; the setback must be twice the height of the building, providing additional buffer
- Added a landscaping provision requiring suitable landscaping along property lines to reduce visual impact, meeting the standards of section 6.2.9 of the Bylaw
- Confirmed that density will be limited to 16 units per acre (total cap of 194 units on 12.1 acres)

Mr. Sintros and Attorney Bobrowski also noted their commitment to paying taxes on the new parcel, consistent with current practices at Newbury Court. This commitment could be solidified in the MOA.

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Mr. Howell asked why it was paramount for this citizen petition to move forward now, opposed to next year's Town Meeting, which could allow for other standard Planning Board processes and community outreach.

Mr. Sintros responded that timing is driven by the opportunity to acquire the land from Emerson Hospital (through a national bidding process won by Deaconess) and the desire to move forward before the MCI Concord property redevelopment becomes a major focus for the Town, potentially drawing away town resources and attention. Additionally, the growing waiting list at Newbury Court is another factor driving the urgency.

The Board turned the discussion to affordability. Mr. Sintros commented that the Deaconess Association views their commitment to affordability through their non-profit mission, which includes a lifetime commitment to residents' health and financial security. The Board appreciates this commitment but noted the high cost of entry into their facilities still and emphasized Concord's strict affordable housing guidelines and desire for concrete assurance that people with lower income and assets will have access to the new facility and the existing one.

Jim Jackson, Old Marlboro Road, noted neighborhood concerns, like neighborhood traffic, the 100-foot setback from the Concord Country Club, the proposed number of units per building, which seems to keep fluctuating in size.

Matthew Johnson, Winthrop Street, and member of the Concord Housing Foundation and Municipal Affordable Housing Trust, voiced concern about the lack of a concrete affordability proposal. Mr. Johnson advocated for including asset limits in addition to income for retirees, using formulas that account for imputed income and asset drawdown over a lifetime, to ensure affordable units benefit those with genuinely limited means.

Frank Feely, Lexington Road, and member of the Concord Housing Foundation, commented that he is pleased to see movement on neighborhood concerns, but echoes Mr. Johnson's comments on lack of a concrete affordability proposal. Mr. Feeley cautioned that he would likely not support this article at Town Meeting if there is still no affordability plan by then.

There was no vote of the Select Board taken on this matter.

Discuss and Vote on Amended Public Ceremonies and Celebrations Committee Charge

Ms. Ackerman opened the discussion on the amended Public Ceremonies and Celebrations Committee charge. Committee Chair Holly Legault joined the discussion, and noted the main changes are to reduce the number of members from 9 to 7 to address quorum issues and to eliminate the requirement for members to be veterans of military service (while still allowing veterans to serve).

> Upon a motion duly made and seconded, it was UNANIMOUSLY
> **voted**: to approve the amended Public Ceremonies and Celebrations Committee charge as included in the Select Boad meeting packet.

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Chair's Report

Ms. Hartman reported that:

- The Agricultural Committee will hold their spring forum on "Farming into the next 250 years: Climate and land challenges and solutions in Concord" on Thursday, May 15th at 6:30 PM at the Concord Free Public Library, Goodwin Forum.
- The next Concord Housing Roundtable will be on Monday, May 19th at 5:00 PM at the Town House, Public Hearing Room with a topical feature of MCI Concord.
- Massachusetts Municipal Association training for newly elected Select Board members on Open Meeting Law and Municipal Finance on Friday, June 13th in Devens, MA.
- Encouraged the Board to begin thinking about goals for Fiscal Year 2026.

Town Manager's Report

There was no Town Manager's Report at this meeting.

Select Board Liaison Reports

- Mr. McKennitt mentioned revisiting APP 10 amendments, which were discussed but not yet finalized.
- Ms. Ackerman noted a significant development regarding the Hanscom North Airfield Expansion, including a proposal for autonomous aviation, and that a public meeting is scheduled on this topic for Tuesday, May 20th at 7:00 PM.
- Discussed that multiple Town Committees are discussing signage, which could be a coordinated effort for the upcoming fiscal year.
- Announced that State Senator Michael Barrett submitted an earmark request for MCI Concord for $250,000 for Fiscal Year 2026. While not yet approved, it is in the budgetary process.

Adjournment

Upon a motion duly made and seconded, it was UNANIMOUSLY
voted: to adjourn the meeting at 8:32 PM.

Meeting Materials:

Select Board Meeting Packet for May 12, 2025

Select Board Meeting Recording for May 12, 2025

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COMMONWEALTH OF MASSACHUSETTS
TOWN OF CONCORD
SELECT BOARD

PROCLAMATION

U.S. ARMY CORPS OF ENGINEERS DAY
TUESDAY, JUNE 17, 2024

WHEREAS The U.S. Army Corps of Engineers will be celebrating 250 years of service to the people of New England and the nation this year; and

WHEREAS The U.S. Army Corps of Engineers traces its origins to the opening days of the Revolutionary War, which began here in Concord, Massachusetts. It was then Boston native Colonel Richard Gridley was named chief engineer of the Massachusetts Volunteers and shortly thereafter, chief engineer of the newly formed Continental Army; and

WHEREAS On June 17, 1775, Colonel Gridley received his first mission: to construct a well-designed earthwork on Breed's Hill (now known as Bunker Hill), which proved invulnerable to British cannon; and

WHEREAS The proud tradition of service that began at Bunker Hill has continued through the last two centuries, and the mission has expanded to include environmental remediation; flood risk management; natural resource management; streambank and shoreline protection; navigation improvements and maintenance; disaster and emergency assistance; regulatory administration; and engineering and construction management support to other agencies; and

WHEREAS The Town of Concord Select Board wishes to extend their congratulations and appreciation to the team members of the U.S. Army Corps of Engineers on their 250th anniversary;

NOW THEREFORE, We, the Select Board of the Town of Concord, do hereby proclaim **June 17, 2025** as **U.S. Army Corps of Engineers Day** in the Town of Concord and calls upon all its citizens to recognize this observance and honor the service of the U.S. Army Corps of Engineers to Concord, to New England and to the nation.

QVAM FIRMA RES CONCORDIA · APRIL 19. 1775. · CONCORD INCORPORATED 12 SEP. 1635.

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CONCORD SELECT BOARD

Proclaimed this 27th day of May, 2025.

TOWN OF CONCORD
Office of the Town Manager
Town House
P.O. Box 535
Concord, Massachusetts 01742

To: Concord Select Board

From: Shannon McAndrew, Management Specialist

Date: May 27, 2025

Re: One Day Liquor Licenses for Tom Wilson of the Wright Tavern

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Included in your meeting packet is a One Day Liquor License for Wines & Malt Beverages Only for Tom Wilson of the Wright Tavern for a beer garden event to be held on Saturday, June 7, 2025 from 11:00 AM – 7:00 PM at the Wright Tavern, 2 Lexington Road.

The setup for the beer garden will be similar to the beer garden held during the 250th, with fencing around the beer garden area and a police detail. This application was also reviewed by Public Safety with no adverse comments.

This application is complete with Bartender TIPS Certifications and payment.

Please reach out with any questions.

From: noreply@civicplus.com
To: licensing board; Town Manager"s Office; jromanul@concordma.gov
Subject: Online Form Submittal: One Day Special Liquor Licenses
Date: Tuesday, May 13, 2025 3:56:51 PM

One Day Special Liquor Licenses

Company or Organization	Wright Tavern Legacy Trust
Applicant Name	Tom Wilson
Email Address	tom@wrighttavern.org
Applicant Address	2 Lexington Road
City	Concord
State	MA
Zip Code	01742
Phone Number	617-281-1198
Name of Event	Celebrate and Support the Robbins House & Wright Tavern
Activity Is	Non-Profit
Event Type	Event in Town-Owned Facility
Event Date & Start Time	6/7/2025 11:00 AM
End Time	7:00 PM
Premises to be Licensed	Wright Tavern Legacy Trust
City	Concord
State	MA
Zip Code	01742
License is for the Sale of:	Wines & Malt Beverages Only
Bartenders TIPS trained?	Yes

Under 21 Attendees?	Yes
1st one-day license for Organization?	Yes
If NO, number of years licensed?	*Field not completed.*
More than 100 in attendance?	Yes

By exercising the privileges of this license in serving persons with alcoholic beverages, the licensee is potentially exposed to significant liability for injuries and damages to the persons served or to others who are injured or damaged by the persons served. Your acceptance and exercise of this license will be deemed to be acknowledgement that you are aware of this potential liability. You are encouraged to discuss the risks associated with exercising your privileges of the license and the precautions appropriate to avoid injuries, damage and liability to others with your legal advisor. The Town of Concord, and the Select Board, acting as the Local Licensing Authority, shall not be liable to the licensee or others if injury or damage shall result from the exercise of the license.

I acknowledge and accept the above statement of liability	Tom Wilson

APPLICATION FEE $75.00
Please forward to: Town Manager's Office PO Box 535 Concord, MA 01742
Applications cannot be processed until payment is received.

Acknowledgements	I attest the information contained in this form is true and accurate., I acknowledge that I must pay an application fee of $75 and will mail my payment., I acknowledge that no action will be taken, or scheduled, regarding my application until payment is received.
IMPORTANT NOTICE	**Board & Committee Meeting Calendar**

(Section Break)

TIPS TRAINING
The Select Board require that for any event which they issue a special permit, the alcohol provided must be served by a TIPS trained (or equivalent) bartender. TIPS training cards, or their equivalent, must accompany this application. Additionally, each certification must show a photo and name of the bartender(s) and must be current. If a photo is not on the TIPS training cards, a copy of a valid driver's license with a photo should be included. Proof of TIPS credentials must be provided before any application may be voted on by the Select Board.

I acknowledge and	Copies of card(s) will be mailed separately to the Town

agree to the Town of Concord's TIPS Training Policy as outlined above.	Manager's Office

(Section Break)

UNDER 21 POLICY

The Town of Concord Select Board assumes that there may be guests or attended under 21 y ears of age at any event. therefore, this policy must be adhered to for all events. Applicants agree to check the ages of all guests at the door. If a persons under the age of 21 are present, his or her hand shall be stamped to indicate the he/she is underage for the bartender.

I certify that Concord's Under 21 Policy, as outlined above, will be followed.	A legal adult, over 21 years of age, shall check the ages of all guests to ensure compliance., All bartenders shall be made aware of the Under 21 Policy terms before the event's commencement.

Email not displaying correctly? View it in your browser.

TOWN OF CONCORD
Application For Tourist Guide License

To offer Guide Service within Concord

License Fee $50.00

The undersigned hereby applies for a TOURIST GUIDE LICENSE in accordance with the provisions of the Town of Concord bylaw *Article 16 (Sub-Article 9)*

Name: Claire McGurn

Address: 10 Hampstead Ave Billerica MA 01862

Company or companies employed with: n/a

Website Address:

Telephone Number:

Email Address: Cmcgurn1@gmail.com

Year Concord History Course Taken: 2025

Signature: Claire A McGurn

This application also requires a copy of a valid state issued identification card or driver's license and a Criminal Offender Record Information (CORI) Acknowledgement Form.

I agree by to comply with any and all Town of Concord Regulations.

Office Use Only

Paid: Check ☑ Cash ☐ Check # 1081

Date: 5/21/2025

License expires on December 31, 2025

TOWN OF CONCORD
Application For Tourist Guide License

To offer Guide Service within Concord

License Fee $50.00

The undersigned hereby applies for a TOURIST GUIDE LICENSE in accordance with the provisions of the Town of Concord bylaw *Article 16 (Sub-Article 9)*

Name: Tara Murphy

Address: 4 Lantern Lane, Maynard, MA 01754

Company or companies employed with: \

Website Address: www.LinkedIn.com/in/tmurphy123

Telephone Number: 978-491-7093

Email Address: TEMG123@Gmail.Com

Year Concord History Course Taken: 2025 (Passed 4/25)

Signature:

This application also requires a copy of a valid state issued identification card or driver's license and a Criminal Offender Record Information (CORI) Acknowledgement Form.

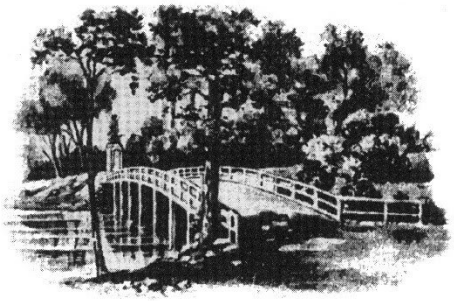
I agree by to comply with any and all Town of Concord Regulations.

Office Use Only

Paid: Check ☑ Cash ☐ Check # 144

Date: 5/13/2025

License expires on December 31, 2025



OLD NORTH BRIDGE

TOWN OF CONCORD
TOWN HOUSE - P.O. BOX 535
CONCORD, MASSACHUSETTS 01742

May 20, 2025

Dear Kerry,

The Concord Select Board would like to extend a special thank you to everyone on the town staff for their tremendous efforts to make April 19 such a success! We have received SO many positive comments about how people felt safe, had so much fun, and how proud they are to be part of Concord.

It was undoubtedly a very special day for all of us. But none of it would have been possible without the dedication of Police, Fire, Public Works, Town Manager's Office, Finance, Health, Economic Vitality, Minuteman Media Network, and many others. We are grateful to all of you for putting in so much extra effort, collaboration, and positive energy.

Sincerely,

Concord Select Board

Mary Hartman, Chair

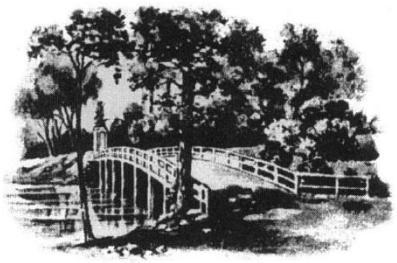
Terri Ackerman, Liaison

Mark Howell

Wendy Rovelli

Cameron McKennitt

Cc: Gary Clayton, Concord250 Executive Committee Co-Chair
Rob Munro, Concord250 Executive Committee Co-Chair



TOWN OF CONCORD
TOWN HOUSE - P.O. BOX 535
CONCORD, MASSACHUSETTS 01742

To: Mary Hartman, Select Board Liaison to Concord Cultural Council
From: Mimi Graney, Economic Vitality Manager
Date: May 20, 2025
Re: Public Art Proposal – **Signal Boxes for Thoreau Depot**

Request for Final Approval for Public Art on town owned property in Thoreau Depot.

Sponsor:

The Concord Cultural Council wishes to execute a Traffic Signal Box Art project for Thoreau Depot as part of its role administering the Concord Center Cultural District.
Leda Zimmerman and Ed Bernard are the project leads for the CCC.
The Committee has selected a design by Jane Holland inspired by an oak tree at North Bridge and a quote from Thoreau.

Purpose:

This art will welcome people to the Concord Cultural District in a key gateway to the area. It will enrich the quality of life for citizens and visitors by enhancing the beauty of Thoreau Depot and creating exciting public spaces through visual art. The commission provides an opportunity to support emerging local artists. This "mini mural" advances the identity of Concord Center as a cultural center and foster a unique sense of place. This art fits within the charge of the CCC to foster a vibrant cultural community to sustain Concord Center as an enjoyable place to live, work and play.

This initiative is inspired by comparable programs conducted in West Concord as well as nationwide.

Site(s):

Signal boxes are the metal cabinets that house the electronic equipment for roadway traffic signals. One signal boxes in Concord:

- Intersection of and Thoreau Street and Sudbury Road

This signal cabinet is Town property. They were selected in coordination with Concord Public Works and approved by CPD to be painted as detailed in this agreement.

The Committee's original request to the Select Board had been for painting of two signal boxes. After informal consultation with the HDC the Committee decided to move forward only with the box outside of the historic district.

Project Description:

Artist: Through a well-publicized Call for Artists, the CCC executed a transparent and fair process to select artists to execute their design ideas on the assigned metal cabinets. The Concord Cultural Council reviewed the applications and unanimously approved the design submitted by Jane Holland.

Artist Statement: "Over the past three years, my work with trees has been a return to the beauty, symmetry, and solace I find in nature. Immersed for years in New York City and commercial art, my return to this area, raising kids during the pandemic, and navigating uncertain times has led me back to nature. Much like Thoreau, whose escape for answers inspired me as a young adult with its beautiful simplicity, I now find myself drawn to the same philosophy. A quote from him resonates deeply as I look at individual trees and see something profound beyond the surface." The design includes a quote from Thoreau that reads: "A tree seen against other trees is a mere dark mass, but against the sky it has parts, has symmetry and expression."

Artist Agreements: Before beginning work each artist will be required to execute a contract, reviewed and approved by the Town Manager, that details the final approved design, permitted materials, copyright and ownership title, terms for use of the site to execute the design, maintenance of the artwork and other responsibilities. A budget of up to $1,000 per signal box has been allocated by the CCC to cover the artist's time, supplies, and insurance. The funds are provided by a Mass Cultural Council Cultural District grant administered by the Committee.

Site constraints: The switchboxes are on sidewalks along busy roadways with limited space to accommodate both the artist during installation and pedestrian movement. Concord Police will be consulted to determine appropriate means to maintain a safe workspace and pedestrian access. Should funds be required for police details the CCC will consult the Economic Vitality Manager to identify supplemental funding.

Materials: Concord Public Works has agreed to prime the signal box prior to the art installation. The CCC agrees to provide to CPW two weeks' notice to undertake this work. Artistic designs will be executed in exterior latex paint as detailed in the artist agreement.

Term & Maintenance: The intention is for these designs to remain for approximately three years. Formal agreements with the artists will specify that the artwork can be removed at any time at the sole discretion of the Town. Maintenance, such as graffiti removal, will be the responsibility of the CCC. It is expected, should maintenance of the artwork require more than a minor paint touch up, the CCC will consult with Public Works to repaint the box either in a solid color or with a new design.

Schedule:

May 15: Artist selection by CCC
May 15-30: Engagement with neighbors to review the design. Select Board approval of final design. Artist Contracting.
June- September: Concord Public Works applies primer on the switchboxes. Artists execute designs to be completed by September 30. Work perhaps will be completed earlier in the summer.

Community:

Artists will be encouraged to create designs that enhance and reflect the site of installation. Designs by Concord based artists will be given priority. The proposals shall be selected by the Concord Cultural Council, a Town Committee that operates within the guidelines set forth by the Massachusetts Cultural Council for cultural districts. Members of the CCC will share the selected designs before they are executed with nearby businesses and residents to inform them of the initiative and to respond to any concerns should they arise.

Administration and Town Responsibilities:

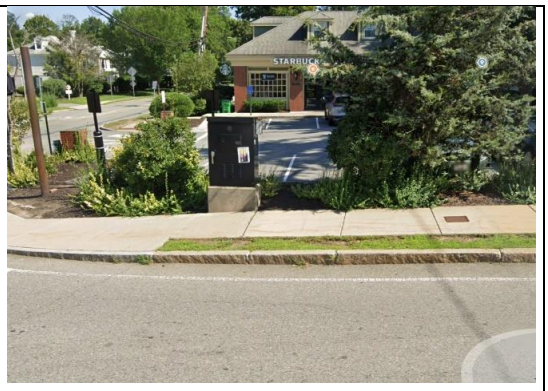
Concord's model Artist Agreement will be the basis for individual agreements to be executed with each of the select artists before any work may proceed. Each agreement will include the final approved design along with certificate of insurance ($1M incident/$2M aggregate) covering the artist with the Town of Concord listed as an additional insured.

Economic Vitality Manager Mimi Graney is the staff liaison to the CCC and will assist the committee with executing artist contracts and the pass-through of the MCC grant funding.

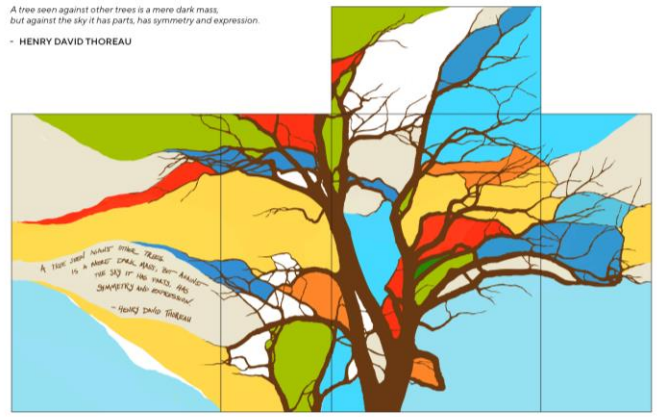
Steve Dookran of Engineering advises on the selection of the individual cabinets for the artwork. Aaron Miklosko of Highway & Grounds will oversee the assignment of priming the cabinets.

When the artwork is scheduled for installation Concord Police and Public Works will be engaged to assist with maintaining pedestrian access. Should police details be required the Economic Vitality Manager will assist with identifying possible funding.

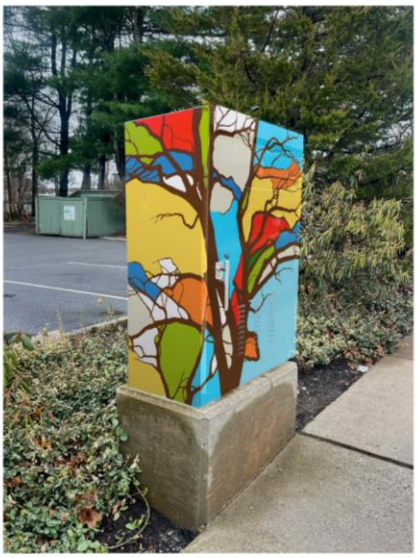
Thoreau and Sudbury – Site Existing Conditions



TOP



BACK FRONT



Adopted:	2/27/79
REVISED:	1/12/98
REVISED:	6/18/12
REVISED:	10/21/19
REVISED:	11/18/19
REVISED:	4/9/20
REVISED:	11/22/21
REVISED:	5/27/25

Town of Concord
APP #10

Town Board, Committee, and Task Force Appointment Policy

The Select Board and Town Manager have jointly adopted this policy concerning the appointment of members to Town boards, committees, and task forces. Please refer to this policy when considering or suggesting an individual for appointment to a Town board, committee, or task force.

Distribution: All Department Heads
All Committee, Board and Task Force Chairs
Town Clerk

I. General

This policy has been jointly adopted by the Select Board and Town Manager, and is intended to cover all committees, boards, commissions and task forces (each, a "Committee") appointed by the Town Manager and Select Board (each, an "Appointing Authority"). This policy does not apply to Town employees.

II. Powers and Duties

Effective local government requires that all Committees respect the duties and responsibilities of other Committees and coordinate their activities to the greatest extent possible. It is in the overall best interest of the Town that each Committee carries out its responsibilities in a consistent and professional manner that is in harmony with the general policies promulgated by the Select Board.

The powers and duties of some Committees appointed by the Select Board or Town Manager are governed by State statute. These include: the Board of Appeals, Planning Board, Historic District Commission, Board of Health, Natural Resources Commission, and others. Once appointed by the Select Board or Town Manager, these Committees operate with a high degree of autonomy. However, it is in the best interests of the Town that these Committees be guided by the general policies promulgated by the Select Board to the extent possible.

Other Committees appointed by the Select Board or Town Manager serve as, among other things, advisors to the Select Board or Town Manager in the performance of their respective duties to the public. These Committees have the powers and duties delegated to them in their specific charges. Committees may be called upon to represent the Town in dealing with other local, regional, or State agencies to the extent requested by their Appointing Authority. When doing so, they shall take positions on all issues consistent with the views of the Select Board and Town Manager, and they shall keep their Appointing Authority fully informed concerning their activities.

III. Officers of Committees, Boards, and Task Forces

Each Committee shall annually elect from among its members a Chair and a Clerk. Certain Committees may also find it desirable to elect a Vice-Chair who may act in the absence of the Chair. In the case of new Committees, or Committees that have become inactive, the Appointing Authority may appoint a chair pro-tem to serve until the Committee itself elects a Chair for the balance of the current year.

Except in unusual circumstances, the chairmanship and the clerkship should rotate yearly amongst the Committee membership.

IV. Open Meeting Law and Minutes

All Committees shall operate in accordance with the Open Meeting Law (MGL Ch. 39, sect. 23a-c) and shall keep minutes of their proceedings. Each Committee shall establish its own procedures for approval and submission of minutes to the Town House on a timely basis. Committees are strongly urged to prepare, review and approve minutes as expeditiously as possible in order to maximize the public's access to information concerning Committee activity. In most instances, Committee minutes should be reviewed and approved within six weeks of the original meeting date. All Committees shall submit electronically a copy of approved minutes to the Town Clerk ~~and to the Select Board~~ immediately upon approval.

Committees are reminded that "draft" copies of the Committee's minutes are considered a public record and must be made available to the public upon request, even when the Committee has not yet had the opportunity to review and adopt the minutes.

Upon the dissolution of any Committee, either by action of the Appointing Authority, or pursuant to an expiration date provided in the Committee's charge, all records, documents, correspondence and files concerning the Committee's work shall be promptly turned over to the Town Clerk for appropriate filing and archival storage.

V. Participation in Town Government

Effective Town government requires active and informed citizen participation. The work of every Committee is inter-dependent with that of others. To foster informed decision making in the Town, the Select Board and Town Manager believe it appropriate that every Committee have ~~as full~~ representation of its membership at relevant Town government functions, for example ~~as possible at the following regular governmental functions~~:

- Chair's Breakfast~~Town government Coordination Meetings (September & December)~~
- Finance Committee budget hearings
- ~~Planning Board~~ Hhearings on Town Meeting warrant articles
  - ~~Select Board's hearings on Town Meeting warrant articles~~
- Town Meeting

The objective is not to enforce uniformity or adherence to a majority view, but to assure understanding of all issues relating to the work of the Committee on which an individual serves and an understanding of Town government in general. ~~Broad participation is essential to maintain an open Town Meeting and to avoid domination by those having only a limited range of knowledge or special interests.~~

VI. Conflict of Interest

All Committee members are subject to the requirements of Massachusetts General Laws, Chapter 268A, Conduct of Public Employees. The statute covers:

(a) Gifts or receipt of compensation or gratuities from anyone other than the Town
(b) Offers or promises to influence official acts
(c) Financial interest in contracts or other particular matters
(d) Acting as agent or attorney before a Town Committee
(e) Unfair advantage in relation to a particular matter

If a prospective Committee member has any question concerning a potential conflict of interest under MGL Ch. 268A, the member shall raise the question in advance of appointment. Those members currently serving should discuss questions of conflict with the Committee chair and the Appointing Authority as soon as possible. The State Ethics Commission is a useful resource for information concerning the application of the law, and Committee members are expected to follow guidance provided by the State Ethics Commission. Subject to review by the State Ethics Commission, the Appointing Authority will make the final determination concerning conflict of interest, with the assistance of Town Counsel as appropriate.

In addition, all Committee members must avoid the appearance of conflict of interest in all matters coming before the Committee. Committee members shall seek guidance from the State Ethics Commission as appropriate, and file with their Committee chair and the Appointing Authority written notice of facts potentially creating the appearance of a conflict of interest as required.

VII. Formation of a New Committee and Dissolution of an Existing Committee

For a new Committee to be formed, it requires sponsorship from a Select Board member and a majority vote of the Select Board. There should be a public announcement and solicitation of volunteers to serve on the new Committee. A list of all interested volunteers should be compiled and discussed, with clear agreement from the Select Board as to how candidates will be vetted, followed by a vote on new Committee membership.

Select Board members and Chairs of existing Committees can propose dissolution of an existing Committee. Such dissolution requires a majority vote of the Select Board.

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~~VII.~~VIII. Appointment Policy and Procedures

(a) General

It is the policy of the Select Board and Town Manager to seek the best qualified persons to serve on each Committee. The Select Board and Town Manager will endeavor to develop a pool of persons interested in serving on each such Committee from at least the following sources:

1. Volunteer cards on file
2. Personal knowledge
3. Recommendations from Town organizations or individuals
4. Suggestions from the Committee having a vacancy
5. Suggestion by prospective appointee(s)
6. Research of skills available in Town
7. Individual responses to publicity regarding vacancies (new volunteer cards)

It is the policy of the Select Board and Town Manager to enlarge the general pool of applicants through active solicitation of Town organizations and through periodic public notification and events~~publicity in the press and on community access television~~. The timing and extent of specific active solicitations shall be determined by the Appointing Authority based on its judgment as to appropriateness and need.

Regardless of how a candidate is initially identified, in order to be considered for placement onto a Committee, it is required that a Volunteer card be completed and submitted to the Town. This can be done in person at the Town Clerk's office, or filled out online within the Volunteer section of the concordma.gov website.

The Town Clerk's office shall maintain an electronic list of people who have submitted Volunteer Cards, noting the date of their submission and particular Committees of interest. When an opening for a Committee position occurs, or is anticipated, every effort should be made by the Town, the Committee and/or the Select Board liaison to contact the volunteers who have that Committee as one of high interest.

In accordance with the vote on Article 47 of the 1978 Annual Town Meeting, the Select Board and Town Manager shall make a special effort to seek out roughly equal numbers of women and men as candidates for appointments over which they have authority, and will make all possible efforts to seek out candidates of diverse cultural, religious, socio-economic, national, racial and ethnic backgrounds, in addition to individuals with diverse sexual orientation, income, and ability/disability. The Select Board and Town Manager shall make appointments in accordance with the Massachusetts Equal Rights Amendment which states, in part, that "Equality under the law shall not be denied or abridged because of sex, race, color, creed, sexual orientation or national origin

Term of Office

8. Unless otherwise prescribed by statute, Town Meeting vote, or specific Committee charge, three years shall be the standard term of office for Committee members.
9. Except as provided in section VII(c) below, those appointed to a three-year term as a full member of a Committee shall be limited to two (2) full consecutive terms.
10. Except as provided in section VII(c) below, those appointed to a full-member Committee term of five (5) years or longer shall be limited to one (1) full term.
11. A partial term to fill a vacancy shall not be considered to be a full term.
12. Before reappointment to a second term, the individual contribution of the member's value to the Committee and his or her attendance record shall be reviewed by the Committee chair. Attendance of less than 75% of all Committee meetings shall prejudice reappointment.
13. All terms, unless prescribed by statute, shall terminate at the end of the month following Town Meeting, or May 31st, whichever is earlier.
14. The terms of office on Committees shall be set on a staggered basis in the interest of fostering continuity of knowledge and experience on all Committees. The Appointing Authority shall determine the year in which a given term expires at the time of appointment.
    Exception: *Ad hoc* committees appointed for a specific responsibility, at which time

the charge to the Committee should include a specific time frame for submission of the Committee's final report and dissolution of the Committee.

15. With the consent of the Committee Chair, a committee member may take a leave of absence from Committee meetings and responsibilities not to exceed 90 days. For an absence longer than 90 days, the Committee member should resign and otherwise face removal under section VII(I) below.
16. Each Committee member shall hold office until his or her successor has been appointed and qualifies, unless his or her office shall become vacant by reason of resignation or removal.
17. In the event of a declared emergency and if the Moderator reschedules Town Meeting

after May 31, all appointed members of committee whose terms would otherwise expire, shall remain in office until the close of the rescheduled Town Meeting.

(b) Appointments for Additional Terms

Members who have served a three-year term on the Records & Archives Committee may be re-appointed to additional terms indefinitely. For other Committees, the Appointing Authority may re-appoint a Committee member to serve one or more terms on the Committee beyond what is permitted under section VII(b) above where one or more of the following obtains:

1. Through service on the Committee, the member has developed extensive and valuable background knowledge and experience concerning specific matters before the Committee that are expected to be ongoing Committee matters in the future and which will be difficult adequately to pass on to new members.
2. A Committee member has skills and expertise, (such as an uncommon advanced degree in a field directly relevant to the Committee's charge) that make the member's continued service on the Committee of special value to the Town.
3. The departure of the member from the Committee will result in an absence of important institutional knowledge or know-how regarding the ongoing activities of the Committee that will not be furnished by other Committee members, such as where all members of the Committee would be new appointees if the member in question is not reappointed.

It is intended that re-appointments under this section VII(b) shall be rare, particularly if there are other available qualified volunteers and/or if the member is serving on another Committee per the section (c) exemption below. In each such case, the appointment shall specifically reference this section of this Appointment Policy.

(c) Dual Committee Appointments

In general, individuals shall be limited to service on only one Committee at a time, especially in the case of a statutory or regulatory Committee and in cases where there are available qualified volunteers who are not currently serving on a Committee. However, the Appointing Authority may make exceptions for one of the following reasons (which will be documented during the nomination process):

1. ~~, from time to time, on a case-by case basis. In addition, exceptions shall be made for instances in which, b~~By law or specific Committee charge, a Committee member serves as a representative on another Committee (e.g., the Board of Health representative on the Council on Aging), or serves on a joint Committee formed from other Committees.
2. The individual brings unique skills and/or experience not readily available from other volunteers or other public recruitment efforts

Notwithstanding these exceptions, no individual shall sit on more than three Committees or subcommittees at any point in time.

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(d) Committee Transfers

In general, a member of one Committee shall only be considered for appointment to another Committee upon completion of the current Committee term of office.

(e) Eligibility for Appointment

All residents of the Town of Concord aged 18 and over are eligible for appointment, except the following:

1. Town employees whose service on a given Committee, in the judgment of the Appointing Authority, would create the appearance of a conflict of interest. Example: an employee of the Public Works Department should not be appointed to the Public Works Commission, but may, however, be appointed to the Council on Aging, Recreation Commission, or other Committee where appointment would not create an appearance of conflict.
2. The Town Manager, Concord Public School and CCRHS Administrators, and Town

department heads (these individuals exert a significant influence over public policy by virtue of their positions, but may be eligible for ad hoc Committees where such representation is required by the charge). Additionally, municipal officials may serve on a committee where their office is specified as a member by the committee charge.

3. Elected Municipal Officials (Select Board, School Committee members, Town Moderator, Housing Authority Commissioners), except that elected officials may serve on temporary, ad hoc Committees.
4. Relatives, spouses, or business associates of existing Committee members whose appointment, in the judgment of the Appointing Authority, would create the appearance

of a concentration of power or viewpoint or a conflict of interest.

(f) Criteria for Selection

Actual appointments from the pool of applicants shall be made by the Select Board and Town Manager on the basis of:

1. Tthe level of applicant's interest in serving and interest in the work of the Committee;
2. Tthe need for diversity on the Committee, taking into account the educational and professional background of the applicant, as well as the need for diversity among all committee members in terms of neighborhood representation, gender, age, and other demographic characteristics.
3. Sspecial skills needed by a particular Committee. Each Committee's charge should identify relevant member skills, background and/or experience required to support their work.

(g) Residency

In most instances, Committee members should be residents of the Town of Concord. There may be occasional exceptions when an individual's unique skill or experience supports the appointment of a non-resident and would be beneficial to the Committee's work; however, this should be relatively rare. Non-residents shall not be eligible for appointment to any Committee responsible for exercising statutory or regulatory authority.

In the event a Committee member becomes a resident of another community, the member or the Committee chair shall promptly notify the Appointing Authority. The Appointing Authority may, upon the request of the Committee chair, permit the non-resident member to continue to serve until the subsequent May 31, except in the case of statutory and regulatory Committees.

(h) Role of Committee in Appointments

Each Committee is expected to:

1. Encourage individuals to complete volunteer cards
2. State the qualifications they are looking for in appointments
3. Make suggestions to the Appointing Authority on potential members

Committees may invite prospective members to attend meetings to familiarize themselves with the work of the Committee. Committees shall not make any representation to candidates concerning the likelihood of appointment ~~nor provide their suggestions on candidates to the Appointing Authority with any rank order~~, nor take any vote with respect to candidates.

(i) Selection Procedures

1. The ~~individual member and the~~ Committee Cchair and/or Clerk shall notify the Appointing Authority in writing as soon as a vacancy occurs, or if they are aware that there will be an upcoming vacancy in the next three months.
2. A notice will be prepared ~~for release to the press and~~ for public posting pursuant to the 1996 Town Meeting vote under Article #12.
3. No action will be taken on a vacancy for at least two weeks after the announcement of the vacancy.
4. For Select Board appointments, nominations shall be made at one Board meeting, and formal action will not be taken until a subsequent Board meeting.
5. For Town Manager appointments that are approved by the Select Board, the request for appointment shall be made at one Board meeting, and action on the request shall be taken not later than the next Board meeting.
6. Except in unusual circumstances, the Appointing Authority shall endeavor to make appointments within two months of the announcement of a vacancy.

(j) Orientation Procedure

Upon appointment, all Committee members shall present themselves at the Town Clerk's office in order to take the oath of office. The Town will provide the new Committee member with an informational packet referred to as the "Committee Handbook" which shall include: a copy of the Committee charge or relevant administrative code, and copies of the Open Meeting, Public Records, and Conflict of Interest laws.

It shall be the responsibility of the Committee chair to provide for the orientation of new members to familiarize them with the work of the Committee, current projects, and Town government operations in general as they may impact the Committee's work.

(k) Removal from Committees

As provided in the Town Charter, the Select Board may remove, after such hearing as the Select Board deem advisable, any Committee members appointed by the Board. Further, the Town Manager may remove any Committee member appointed by the Town Manager for cause, with or without a hearing. "Cause" shall include, for example, the repeated failure to attend Committee meetings, the commission of an ethical violation (as found by the State Ethics Commission) or a violation of the Open Meeting Law, as found by the Office of the Attorney General, if the Town Manager believes such action to be necessary to preserve public confidence in Town government.

~~VIII.~~IX. Conflicts with Law

In case of a conflict between any provision of this Appointment Policy and the laws of The Commonwealth of Massachusetts or the Town Charter, Massachusetts law or the Town Charter, as the case may be, shall take precedence.

CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC | BROADBAND | ENERGY MANAGEMENT

Date: May 5, 2025

To: Andrea Fountain, Town Manager's Office/Select Board

Via: Jason Bulger, CMLP Director

Via: Joe Repoff, CMLP Assistant Director

From: Jeffrey Cosgrove, CMLP Lead Electrical Engineer

Cc: Steven Dookran, CPW Town Engineer

Cc: Justin Richardson, CPW Assistant Town Engineer

Subject: Petition of Comcast of Massachusetts III, Inc. for a Grant of Location on sections of Barrett's Mill Rd and Commonwealth Ave

This memorandum is to provide comments to the Select Board on the petition for a Grant of Location filed by Comcast of Massachusetts III, Inc. on portions of Barrett's Mill Rd and Commonwealth Ave. The applicant is proposing to overlash an additional cable to Comcast's existing network encompassing the following sections of roadway as noted below; reference plan titled "Aerial Cable Replacement Request, 936 Elm St, Concord MA".

- Barrett's Mill Rd: Pole #76 to Pole #83
- Commonwealth Ave: Pole #23 to Pole #25

The Concord Municipal Light Plant (CMLP) met with Comcast on site on March 12, 2025 to review the application and plans and has no objection to the approval of the petition subject to the following conditions which are supplemental to Concord Public Works requirements:

1. Prior to construction, the applicant must complete a pre-Hearing site visit with the Concord Municipal Light Plant to review work to be completed.

2. The new aerial cable shall be installed using common industry standards and shall be set substantially at the points indicated on the plan filed with the petition. Specifically, the new aerial cable must be installed between utility poles 23 and 35 Commonwealth Ave and between utility pole 76 and 83 Barrett's Mill Rd. Minimum separation and clearance requirements as described by the most recent National Electric Safety Code must be maintained.

3. The Applicant must complete any applicable transfer work between old and new utility poles along this section of roadway during installation. Should any issues arise it is the responsibility of the Applicant to coordinate with CMLP.

4. As-built plans must be provided to the Concord Municipal Light Plant Engineering Division prior to the final closeout of the project.

CONCORD PUBLIC WORKS
ENGINEERING DIVISION

Tel: 978 - 318 - 3210
Fax: 978 - 318 - 3245

133 Keyes Road
Concord, MA 01742

DATE: 05/08/2025

MEMORANDUM

TO: **Shannon McAndrew, Management Specialist**
VIA: **Alan Cathcart, Director of Public Works**
FROM: **Stephen Dookran PE, Town Engineer**
PREPARED BY: **Justin Richardson, PE, Assistant Town Engineer**
SUBJECT: **Comcast to install new cable from Pole #23 to Pole #25 on Commonwealth Avenue and install new cable from Pole #76 to #83 on Barretts Mill Road to provide service to 936 Elm Street, Concord, MA.**

This memorandum is to provide comments to the Select Board on the petition for a Grant of Location filed by Comcast of Massachusetts III, Inc. on Commonwealth Avenue and Barretts Mill Road. The applicant proposes overlashing an additional cable to the existing Comcast network from utility pole #23 Commonwealth Avenue to utility pole #25 Commonwealth Avenue and overlashing additional cable to the existing Comcast network from utility pole #76 Barretts Mill Road to utility pole #83 Barretts Mill Road. This request is to provide service to 936 Elm Street, Concord, MA. Concord Public Works (CPW) Engineering Division has reviewed the Grant of Location petition dated February 13, 2025, and has no objection to the approval of the petition subject to the following conditions.

1. Prior to construction, a letter of approval from CMLP allowing the proposed construction on their infrastructure with specific installation conditions must be obtained.

2. Prior to construction, the applicant must complete a site visit with CPW to review work to be completed. CPW shall be notified at least 24 hours prior to the start of construction.

3. The applicant must remove any infrastructure including existing utility poles deemed obsolete because of this project.

4. As-built plans must be provided to the CPW Engineering Division prior to the final closeout of the project.

5. The Applicant will remove the new cable and appurtenances upon completion of their service life.

6. A Right-of-Way (ROW) permit application shall be submitted to CPW with stamped constructions plans. No work shall commence until CPW has completed its review and provides ROW Permit approval to the Applicant.

7. A traffic management plan shall be submitted to the Concord Police Department Traffic Safety Officer, Concord Fire Department and the CPW Engineering Division

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for approval. This should include sidewalk closures and alternative pedestrian routes around the construction.

8. The Applicant shall notify emergency services, the school district, the post office, and CPW solid waste for trash pickup services via email one week prior to the start of construction. The applicant shall also notify neighborhood residents with door hangers prior to the start of construction.

9. The Applicant and its Contractor, if applicable, shall adhere to the CPW Construction and Tree Protection Standard Operating Procedures including the protection of public shade trees: "No person may plant, trim, cut, or remove a public shade tree without the prior permission of the Tree Warden and Engineering Division. This control includes the cutting of roots during construction." The contractor shall be responsible for installing wooden tree guards with orange snow fencing on public shade trees located within the work zone.

85 East Belcher Road
Foxborough, MA 02035
Phone: 617-279-5880 (c)

February 13, 2025

Andrea Fountain
Executive Assistant to Select Board
Town Manager's Office
22 Monument Square
Concord, MA 01742

RE: Petition for Grant of Location for 936 Elm Street, Concord, MA

Dear Andrea:

Enclosed please find Comcast's Petition for Installation of Cable in order to provide service to 936 Elm Street, Concord, MA . I have also enclosed a draft Order. Please advise when the Board will be able to hear us on this matter.

Thank you for your assistance. Please do not hesitate to contact me should you have any questions, comments, or concerns regarding any aspect hereof.

Sincerely,

Catherine Maloney

Catherine Maloney, Senior Manager of Government & Regulatory Affairs
Comcast

PETITION FOR INSTALLATION OF CABLE

Concord, Massachusetts

February 13, 2025

To the Select Board of Concord, Massachusetts:

Comcast of Massachusetts III, Inc. requests permission to install cable to be owned and used by the petitioner, along and across the following public way or ways:

Barretts Mill Road, Elm Street Concord, MA

Wherefore they pray that after due notice and hearing as provided by law, they be granted permission to install cable overlashed to existing strand cable as they may find necessary and in accordance with the plan filed herewith.

1. **Comcast of Massachusetts III, Inc.**

   By: _Catherine Maloney

   Print name: Catherine Maloney

   Title: Sr. Manager of Government and Regulatory Affairs

   Telephone or e-mail contact info: (617) 279-5880 cell phone
   Catherine_Maloney@comcast.com

ORDER FOR INSTALLATION OF CABLE

In Select Board of the Town of Concord, Massachusetts

Notice having been given and a public hearing held, as provided by law,
IT IS HEREBY ORDERED: that **Comcast of Massachusetts III, Inc.** be and is hereby granted permission to install cable as it deems necessary, in the public way or ways hereinafter referred to, as requested in the said petition and accompanying plan.

All construction under this order shall be in accordance with the following conditions:

Part 1. Overlash additional cable to existing Comcast network from utility pole #23 Commonwealth Ave. to utility pole #25 Commonwealth Ave.

Part 2. Overlash additional cable to existing Comcast network from utility pole 76 Barretts Mill Rd. to utility pole 83 Barretts Mill Rd. to provide service to the occupants of 936 Elm St. Concord, MA

The following are the public ways or parts of ways along which the above referred to may be installed thereon under this order:

- *Commonwealth Avenue, Barretts Mill Road, Elm Street*

I hereby certify that the foregoing order was adopted at a meeting of the Select Board of the Town of Concord, Massachusetts held the _____ day of _____, 2025.

_____
Clerk of Select Board

We hereby certify that on_____ , at _____o'clock _____, at

Concord, Massachusetts, a public hearing was held on the petition of **Comcast of Massachusetts III, Inc.**

permission to install cables, fixtures and connections described in the order herewith recorded, and that we mailed at least seven days before said hearing a written notice of the time and place of said hearing to each of the owners of real estate (as determined by the last preceding assessment for taxation) along the ways or parts of ways upon which the Company is permitted to install cables, fixtures and connections under said order. And that thereupon said order was duly adopted.

_____

_____

_____

_____

_____

Select Board of the Town of Concord, Massachusetts

CERTIFICATE

I hereby certify that the foregoing is a true copy of a location order and certificate of

Hearing with notice adopted by the Select Board of the Town of Concord, Massachusetts,

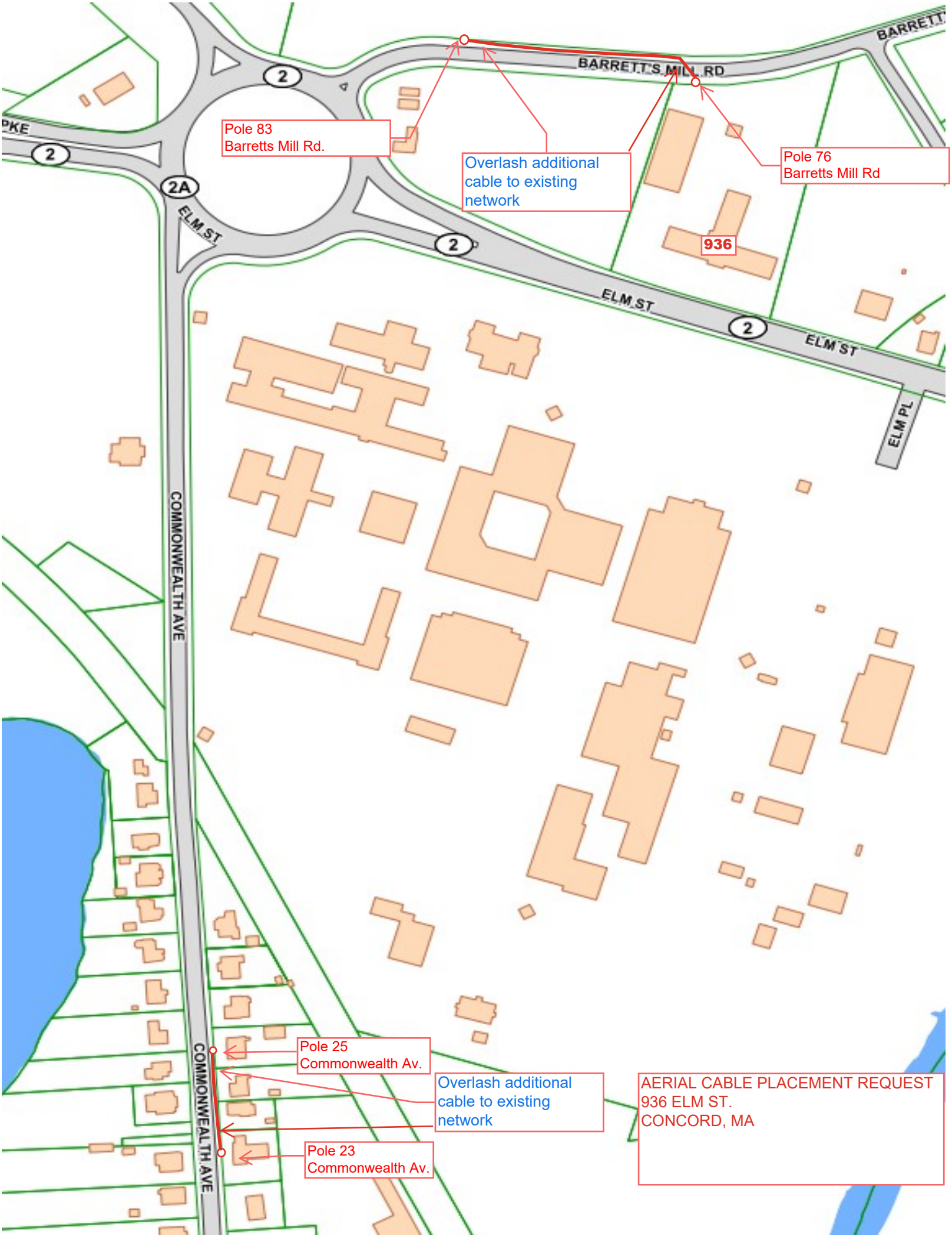
on the _____ day of _____, and recorded with the records of location

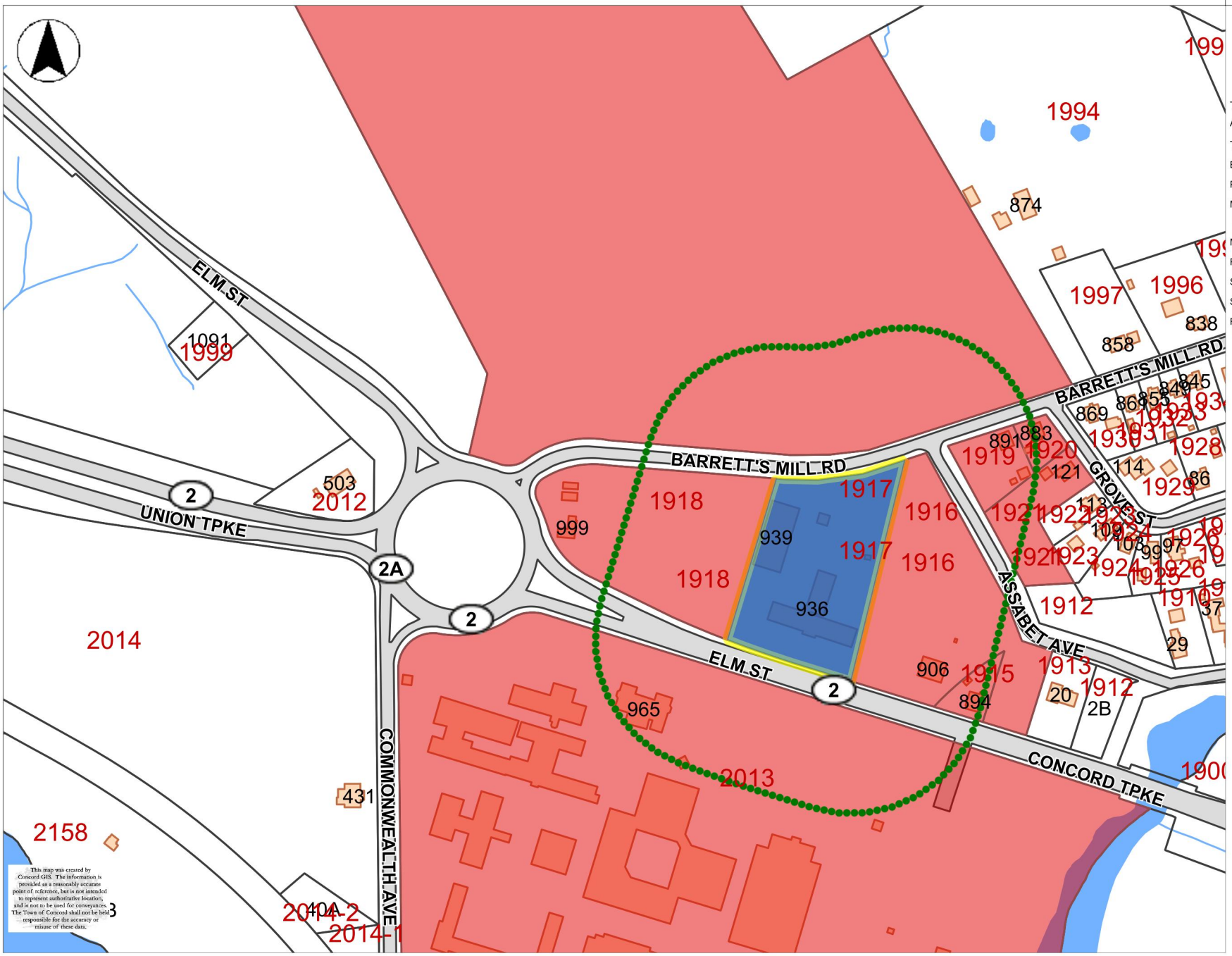
orders of said Town, Book_____, Page_____. This certified copy is made under

the provisions of Chapter 166 of General Laws and additions thereto or amendments thereof.

Attest: _____

Town Clerk


Pole 83
Barretts Mill Rd.
Overlash additional cable to existing network
Pole 76
Barretts Mill Rd
936
BARRETT'S MILL RD
ELM ST
ELM PL
COMMONWEALTH AVE
Pole 25
Commonwealth Av.
Overlash additional cable to existing network
Pole 23
Commonwealth Av.
AERIAL CABLE PLACEMENT REQUEST
936 ELM ST.
CONCORD, MA


ELM ST
BARRETT'S MILL RD
UNION TPKE
GROVE ST
ASSABET AVE
COMMONWEALTH AVE
CONCORD TPKE
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2A
1091
1999
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2012
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2B
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1997
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1919
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2014-2
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800 ft
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936 ELM ST
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Address Numbers
Tax Map Parcel ID Labels
Buildings (ft)
Parcel Polygons
MA Highways
Interstate
US Highway
Numbered Routes
MBTA Commuter Rail Stati
Railroad
Streams
Streets Area
Rivers & Ponds

TOWN OF CONCORD
SELECT BOARD
PUBLIC HEARING NOTICE

Notice is hereby given that a Public Hearing will be held at the Town House in the Select Board Meeting Room, 22 Monument Square, Concord, MA on Tuesday, May 27, 2025 at 6:00 PM, upon the petition of Comcast of Massachusetts III, Inc. requests permission to install cable to be owned and used by the petitioner, along and across the following public way or ways: Barretts Mill Road, Elm Street, Concord, MA.

Part 1. Overlash additional cable to existing Comcast network from utility pole #23 Commonwealth Ave. to utility pole #25 Commonwealth Ave.

Part 2. Overlash additional cable to existing Comcast network from utility pole 76 Barretts Mill Rd. to utility pole 83 Barretts Mill Rd. to provide service to the occupants of 936 Elm St. Concord, MA

The following are the public ways or parts of ways along which the above referred to may be installed thereon under this order:

- Commonwealth Avenue, Barretts Mill Road, Elm Street

The petition was filed with the Select Board on February 12, 2025. **Please review the Select Board meeting agenda at www.concordma.gov to confirm the exact timing of the Hearing.** Questions on this matter should be directed to **Cathy Maloney, Senior Manager of Government and Regulator Affairs**, at Catherine_Maloney@comcast.com.

By Order of the Select Board

Mark Howell, Clerk

CONCORD PUBLIC WORKS
ENGINEERING DIVISION

Tel: 978 - 318 - 3210
Fax: 978 - 318 - 3245

133 Keyes Road
Concord, MA 01742

DATE: 3/24/2025

MEMORANDUM

TO: **Andrea Fountain, Executive Assistant to the Select Board**
VIA: **Kerry Lafleur, Town Manager**
VIA: **Alan Cathcart, Director of Public Works**
FROM: **Stephen Dookran, PE, Town Engineer**
PREPARED BY: Justin Richardson, PE, Assistant Town Engineer
SUBJECT: **Petition by National Grid to replace 3,450-feet of 2-inch (1930) coated steel and 2-inch (1986) plastic main in Monument Street with 6-inch Plastic, from the intersection of Liberty Street and Monument Steet to #806 Monument Street.**

This memorandum is to provide comments to the Select Board on the petition for a Grant of Location (GOL) on Monument Street filed by National Grid. Concord Public Works (CPW) Engineering Division has reviewed the attached Grant of Location petition with a date of March 21, 2025, which was originally filed on June 17, 2022, but has undergone multiple requested plan revisions and delayed by National Grid. The current proposed plans having a most recent revision date of September 23, 2024, from National Grid's designer, BL Companies, is for the above referenced project in the Monument Street public right-of-way (ROW). National Grid requests to replace 3,450-feet of 2-inch main in Monument Street with 6-inch plastic main, from the existing 2-inch coated steel main at the intersection of Liberty Street and Monument Street to #806 Monument Street. National Grid informed CPW that this main size increase is to increase pressure in National Grid's distribution system. As a result of the Engineering Division's review, CPW asks that if the Select Board approves the petition, the following understandings, conditions and recommendations are made part of the approval:

1. **Historic District Notification.** This Project is located partially within the Town of Concord Historic District. National Grid shall contact the Historic Districts Commission to determine what, if any action is required for this project.

2. **Scenic Roads Bylaw Notification.** Monument Street is a street that is listed in the Town of Concord Massachusetts's Scenic Roads Bylaw. The current proposed plans do not show any alterations/removal of trees or stone walls, but if any alteration/removal of trees or stone walls is required as a result of deviation from current plans or gas service connection work, National Grid shall comply with the most current version of the "Rules and Regulations for Administration of Scenic Roads Bylaw". This will require National Grid to make a filing with the Town of Concord Planning Board.

3. **Grant of Location Expiration.** This GOL will expire three years after the petition is approved by the Select Board.

Printed on 30% post consumer recycled paper

4. **Compliance with Applicable Laws.** National Grid shall comply with all Massachusetts State laws and requirements with respect to the replacement and/or removal of gas mains.

5. **Failures due to Abandoned Gas Main and Services.** Should any issue, including but not limited to roadway settlement or collapse, gas leakage, groundwater, or storm water interference, etc. arise because of National Grid's abandoned mains, services, appurtenances or associated trenches, National Grid shall promptly respond to make all necessary repairs to the affected area as required by the road restoration standards set forth in D.T.E. 98-22. Failure to do so may result in a revocation, delay, or denial of any pending or future GOLs applied for by National Grid.

6. **Conflicts with Abandoned Gas Mains.** If any of National Grid's abandoned mains, including the main to be abandoned under this petition for a GOL, present conflicts with future improvements to the public street infrastructure including but not limited to sidewalk, drainage or public utilities, National Grid will work with the Town to minimize the impacts of these conflicts including potentially using National Grid's resources to help with the following: (1) confirming or identifying the location of the mains (that may not be identified by Dig Safe), (2) confirming that the main has no residual gas, and (3) working with the Town to remove any obstructing facilities. Failure to do so may result in the revocation, delay or denial of any existing, pending or future GOLs applied for by National Grid. A National Grid representative shall attend pre-construction meetings related to Town projects and other construction meetings as needed to provide information necessary to minimize conflicts with live and abandoned gas infrastructure.

7. **Right of Way Permit** – A right-of-way (ROW) permit issued by CPW Engineering is required to perform work in the public street. CPW Engineering reserves the right to add and/or adjust permit stipulations related to construction standards, work quality, work site maintenance, schedule adjustments, etc. when these become necessary to address new information and conditions related to the project or project site. All work shall be performed in compliance with the conditions of this memorandum and D.T.E. 98-22. If any provision of this GOL is inconsistent with the standards set forth in D.T.E. 98-22, the Town and National Grid agree that National Grid shall be required to comply with all standards in D.T.E. 98-22.

8. **Traffic Control Plan** – As part of the ROW permit a traffic management plan meeting the Manual of Uniform Control Traffic Devices (MUTCD) shall be submitted to the Concord Police Department (CPD) Traffic Safety Officer and CPW Engineering. It appears from the plan provided that the work will require, at a minimum, partial closing

of the roadway and potentially pedestrian paths. A sketch shall be provided detailing how the anticipated vehicular and pedestrian movements will be managed for the duration of the project. The construction hours shall be in conformance with the requirements of the ROW permit, and any changes to work hours and significant deviations from the traffic control plan shall be approved by CPD and the Town Engineer. The roadway and sidewalk shall be secured at the end of each workday to ensure safe and adequate passage. The temporary pedestrian route shall conform to ADA regulations. Work shall not commence until the review and approval of the traffic mitigation plan are completed.

9. **Tree Protection** – Contractors shall adhere to the CPW Construction and Tree Protection Standard Operating Procedures including the protection of public shade trees: "No person may plant, trim, cut, or remove a public shade tree without the prior permission of the Tree Warden and Engineering Division. This control includes the cutting of roots during construction." The contractor shall be responsible for installing wooden tree guards with orange snow fencing on public shade trees located within the work zone.

10. **Construction Notifications** – National Grid shall notify emergency services, the school district, the post office, and CPW Solid Waste for trash pickup services via email one week prior to the start of construction. National Grid shall also notify neighborhood residents and businesses two weeks prior to the start of construction via certified mail or door hanger notifications. Additionally, National Grid is required to give prior notice to CPW Engineering regarding daily work in the ROW as specified in the ROW permit.

11. **Preconstruction Meeting** - National Grid shall schedule a preconstruction meeting with all pertinent Town divisions, other utility companies and stakeholders two weeks prior to the commencement of construction. National Grid shall also schedule a neighborhood meeting for residents and/or businesses immediately adjacent to the project, where National Grid shall answer questions related to the construction.

12. **Separation from Existing Utilities in Roadway and Excavation Requirements** - National Grid shall maintain the following minimum offsets from existing infrastructure with its new mains.
    - Minimum of 3' from all other existing utilities and utility structures
    - Minimum of 1' vertical separation to any utility crossing

    All water main and service crossings shall be vacuum truck excavated in the area of the crossings. National Grid or their subcontractor shall notify CPW Engineering and respective utility owners of all anticipated utility crossings 24 hours in advance of the excavation.

13. **Trenching, Patching, and Pavement Restoration** – National Grid must backfill the trench with suitable material, in 6-inch lifts, and compact with mechanical vibratory

devices such as vibratory roller, plates, or rammer (pogo stick). Suitable backfill material will mean an imported product meeting the gradation specification for MassDOT M1.03.1 Processed Gravel for sub-base. The gravel material delivered must pass a three (3) inch square mesh sieve and shall not contain frozen material. National Grid or its subcontractor must submit material data sheets to the Engineering Division prior to commencing work. No work shall commence until Engineering has completed its review of the material data sheet. National Grid shall have a Geotechnical Engineer certify that the material inside the trench and the compaction of the material meets Town of Concord Design and Construction Standards. The material data and the Geotechnical Engineer certification can be omitted if National Grid provides the Town with a five-year warranty for the pavement in the area of their trench.

The patch shall be considered temporary until National Grid completes the final repaving of the project area. During this period any settlement or delamination of pavement within the patch or unacceptable deterioration of adjacent pavement caused by the construction shall be rectified by National Grid or its subcontractors within two days of notice of defect.

Asphalt binder (a minimum of 4.5-inches or existing depth, whichever is greater) patching shall be placed in two lifts at all trenched locations in preparation for a mill and fill of the area described next.

The pavement on this section of Monument Street is in good condition with a Pavement Condition Index of 81 per the Town's 2024 roadway scan, and this project will result in significant destruction of the pavement. National Grid is required to mill the top 2" of the width of the travel lane (center line to edge of curb/edge of pavement) where the gas main is proposed. This mill and fill shall start 50-feet from the excavation south and southwest on Monument Street and Liberty Street, down Monument Street, and 50-feet past the last patch at the end of the main replacement. All service patches that cross into the travel lane which is not being fully milled and filled shall be milled across the travel lane (center line to edge of curb/edge of pavement) a minimum of 10-foot wide over each patch and repaved. All pavement markings that are disturbed by the trenching and/or final paving shall be reapplied to the roadway.

National Grid shall not perform any excavation in the new pavement on Carr Road and Red Coat Lane unless it is absolutely necessary. This is new pavement from the 2024 paving season, and National Grid is required to mill the top 2" of the width of the entire roadway (curb to curb and/or edge of pavement to edge of pavement) where the excavation occurred. This mill and overlay shall start with a hot joint at Monument Street extend and 50-feet past the last patch at the end of the main connection.

Unless National Grid opts to give a five-year warranty in lieu of geotechnical requirements mentioned above, they will provide a two-year warranty for all paving

mentioned above to ensure that no issues arise as a result of the gas main trenching on these streets with good to excellent pavement condition.

Construction cannot commence until April 22, 2025 due to a major Town event in Spring 2025.

14. **Trench Plates** – All work from this project must be performed during the normal construction season, April 1st to the middle of November. CPW understands that work can potentially be performed during an unseasonal winter snow events, but during this time no steel plates will be permitted to secure trenches. If the use of steel plates becomes absolutely necessary because of a critical change in the work plan, CPW shall be immediately notified, and the installation of the plates will strictly follow the requirements to allow safe and proper snow removal. National Grid will be held liable for any incidents due to inadequate removal of snow and ice in the work area related to improperly installed trench plates and/or obstructions caused by their work in the work area. The plates shall be in place for no more than 24 hours or the duration of a snow or ice event. They shall be monitored to make sure they remain secure. Use of Plates during the Town's regular ROW Permit season shall strictly conform to the requirements in the ROW Permit.

15. **As-Built Plans** – An as-built plan of the new main and all appurtenances as well as a record drawing of the Abandoned Main and all its appurtenances shall be provided to CPW Engineering prior to the final closeout of the ROW Permit.

PETITION OF NATIONAL GRID FOR GAS MAIN LOCATIONS

Town of Concord / Board of Selectmen:

The Nationalgrid hereby respectfully requests your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the **Town of Concord** and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

Replace 3,450 feet of 2-inch Coated Steel (1930) and 2-inch Plastic (1977/1986) main on Monument St with 3,450 feet of 6-inch Plastic from Liberty St to #806.

Date: **March 21, 2025**

By: _____
Mary Mulroney
Permit Representative

Town of Concord / Board of Selectmen:

IT IS HEREBY ORDERED that the locations of the mains of the Nationalgrid for the transmission and distribution of gas in and under the public streets, lanes, highways and places of the **Town of Concord** substantially as described in the petition date **March 21, 2025** attached hereto and hereby made a part hereof, and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and/or accomplish the objects of said Company, and the digging up and opening the ground to lay or place same, are hereby consented to and approved.

The said Nationalgrid shall comply with all applicable provisions of law and ordinances of the **Town of Concord** applicable to the enjoyment of said locations and rights.

Date this _____ day of _____, 20____.

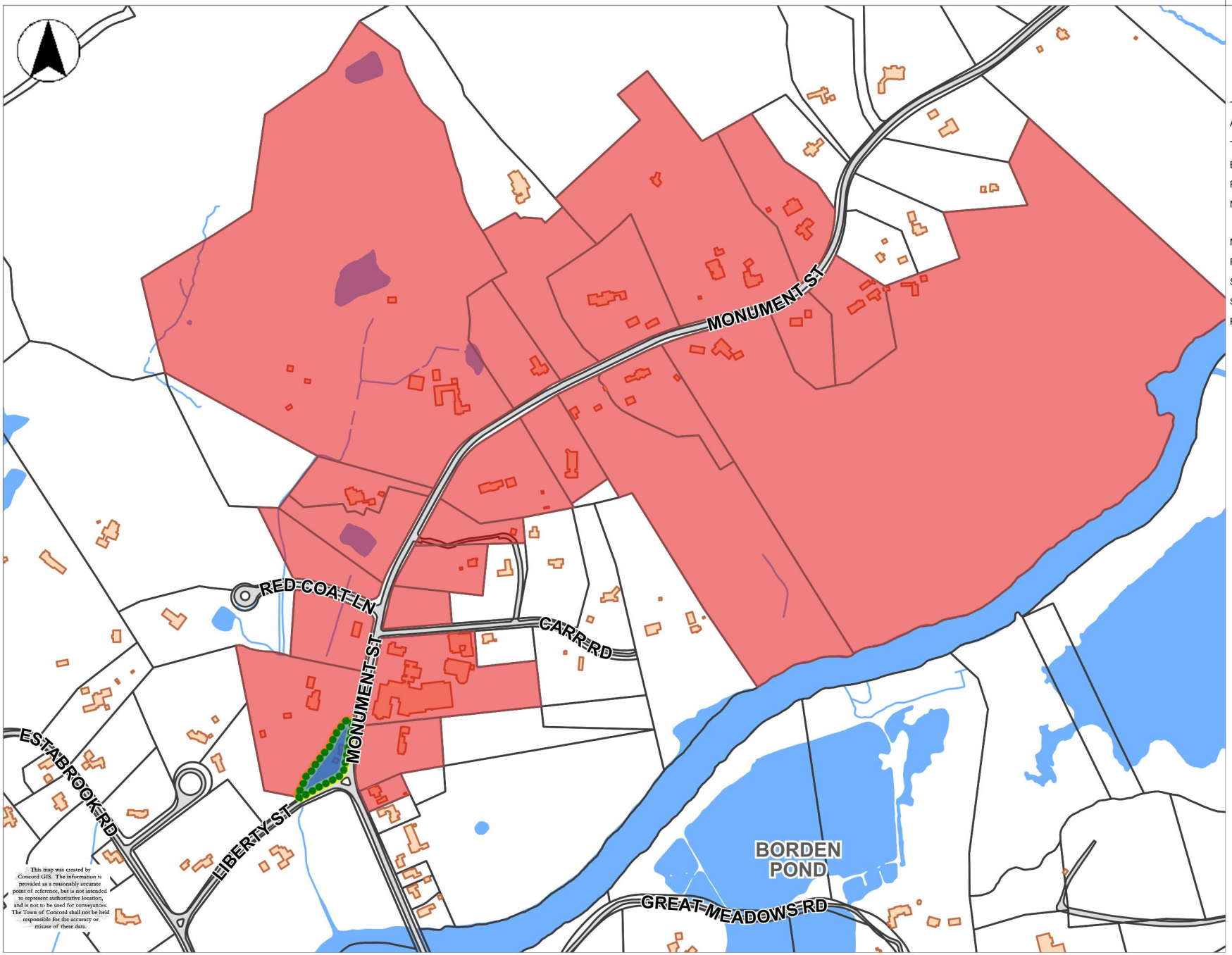
I hereby certify that the foregoing order was duly adopted by the _____ of the City of _____, MA on the _____ day of _____, 20____.

By: _____

_____
Title

WO # 1251313

RETURN ORIGINAL TO THE PERMIT SECTION
NATIONAL GRID
170 DATA DRIVE, WALTHAM, MA 02451
RETAIN DUPLICATE FOR YOUR RECORDS



Town Boundary - State Sur
Address Numbers
Tax Map Parcel ID Labels
Buildings (ft)
Parcel Polygons
MA Highways
Interstate
US Highway
Numbered Routes
MBTA Commuter Rail Stati
Railroad
Streams
Streets Area
Rivers & Ponds

0 800 1600 ft

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475-806 Monument St.

NATIONAL GRID
APPROX. 10' OF 2"/3,450' OF 6" MDPE (60 PSIG) GAS MAIN RELAY
MONUMENT STREET, CONCORD, MA
W.O. NO.: 1251313

N

LOCUS

300' 150' 0 300'

SCALE 1"=300'

INDEX OF SHEETS		
PAGE	NAME	TITLE
1	CON-1251313-01	COVER SHEET
2	CON-1251313-02	CONSTRUCTION NOTES
3	CON-1251313-03	BILL OF MATERIALS
4	CON-1251313-04	PROPOSED INSTALLATION PLAN OVERVIEW
5	CON-1251313-05	PROPOSED INSTALLATION PLAN SHEET 1 OF 7
6	CON-1251313-06	PROPOSED INSTALLATION PLAN SHEET 2 OF 7
7	CON-1251313-07	PROPOSED INSTALLATION PLAN SHEET 3 OF 7
8	CON-1251313-08	PROPOSED INSTALLATION PLAN SHEET 4 OF 7
9	CON-1251313-09	PROPOSED INSTALLATION PLAN SHEET 5 OF 7
10	CON-1251313-10	PROPOSED INSTALLATION PLAN SHEET 6 OF 7
11	CON-1251313-11	PROPOSED INSTALLATION PLAN SHEET 7 OF 7
12	CON-1251313-12	PROPOSED LOCATION DETAIL SHEET 1 OF 3
13	CON-1251313-13	PROPOSED LOCATION DETAIL SHEET 2 OF 3
14	CON-1251313-14	PROPOSED LOCATION DETAIL SHEET 3 OF 3
15	CON-1251313-15	MISCELLANEOUS DETAIL 1 OF 4
16	CON-1251313-16	MISCELLANEOUS DETAIL 2 OF 4
17	CON-1251313-17	MISCELLANEOUS DETAIL 3 OF 4
18	CON-1251313-18	MISCELLANEOUS DETAIL 4 OF 4

811 DigSafe MA.ME.NH.RI.VT

BL Companies
Architecture
Engineering
Environmental
Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
9/25/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	TA	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

COVER SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-01	G-001

CONSTRUCTION NOTES

SCOPE OF WORK

NATIONAL GRID WORK ORDER NUMBER 1251313:

475-806 MONUMENT ST, CONCORD, MA

AS PART OF THE GRTHREPA PROGRAM, STRATEGIC ASSET AND SYSTEM PLANNING RECOMMENDS:

--> REPLACE 3,450 FEET OF 2" 60 PSIG CS (1930) (DCON0064, ICON0003) AND 2" 60 PSIG PL (1977/1986) MAIN ON MONUMENT ST WITH 3, 450 FEET OF 6" 60 PSIG PL FROM LIBERTY ST TO #806.

--> REPLACE 10 FEET OF 2" 60 PSIG PL (1986) MAIN WITH 10 FEET OF 2" 60 PSIG PL MAIN IN THE INTERSECTION OF CARR RD AND MONUMENT ST.

GENERAL

1 NO FIELD CHANGES SHALL BE MADE TO THIS DESIGN WITHOUT APPROVAL FROM THE ASSIGNED NATIONAL GRID ENGINEER:

ENGINEER: GREG LOGUE

PHONE: 508-573-0167

EMAIL: GREGORY.LOGUE@NATIONALGRID.COM

2 NEW MAINS SHOULD BE INSTALLED IN ACCORDANCE WITH THE TYPICAL TRENCH DETAIL INCLUDED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.

- A 36 INCHES OF COVER FROM FINAL GRADE WHERE PRACTICAL.
- B STATE HIGHWAY MINIMUM COVER: 36 INCHES
- C DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
- D SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
- E CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

3 SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.

- A MINIMUM IN PUBLIC ROW: 18 INCHES
- B MINIMUM IN PRIVATE PROPERTY: 12 INCHES
- C SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
- D CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

4 REFER TO CNST-6030 FOR SHALLOW MAINS. PRIOR TO INSTALLING GAS MAINS WITH LESS THAN 24 INCHES OF COVER, COMPLETE REQUEST FOR WAIVER FORM AND CONTACT GAS PIPELINE SAFETY & COMPLIANCE FOR APPROVAL:

- A LIEN MOOREHEAD - (617) 438-9069
- B JASON BARON - (351) 666-9082
- C IF A PROPOSED TOP TEE CONNECTION RESULTS IN A SHALLOW MAIN THAT CANNOT MEET THE WAIVER CRITERIA, A FULL TEE CONNECTION IS AN ACCEPTABLE ALTERNATIVE. A SPHERICAL TEE IS ONLY ACCEPTABLE WITH APPROVAL FROM NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.

5 ALL MAINS SHOULD BE INSTALLED WITH CLEARANCE OF 12 INCHES FROM OTHER FACILITIES. (24 INCHES PREFFERRED CLEARANCE FROM CONCORD WATER AND DRAIN).

- A DISTRIBUTION MINIMUM CLEARANCE: 12 INCHES (FOR TOWN OF CONCORD)
- B APPROPRIATE PROTECTIVE MEASURES SHALL BE USED TO PROTECT THE GAS FACILITY IF MINIMUMS CANNOT BE ATTAINED. APPROVAL IS REQUIRED BY GAS SYSTEMS ENGINEERING.

6 THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 3 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE ACTUAL ROUTE AND ALL VERTICAL AND HORIZONTAL OFFSETS ARE TO BE FIELD ROUTED WITHIN THE PUBLIC RIGHT-OF-WAY BASED ON THE ACTUAL LOCATION OF EXISTING UTILITIES. ADDITIONAL FITTINGS NOT SHOWN WILL BE REQUIRED.

7 VALVES DEPICTED IN THE DESIGN ARE THE MINIMUM REQUIRED FOR SECTIONALIZING, ISOLATION, CRITICAL VALVES, AND/OR TO ACCOMMODATE TIE-INS. ADDITIONAL FULL PORT VALVES MAY BE ADDED TO ACCOMMODATE CONSTRUCTION.

- A VALVES FOR BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.

8 ELECTROFUSION COUPLINGS MAY BE INTERCHANGED WITH BUTT FUSION WHERE APPLICABLE.

9 TIE-IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY:

- A REGULATOR STATION WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN LOCATION.
- B CHANGE TO THE NUMBER OF CONNECTIONS (ADDITIONAL ADDED FROM AN INTERSECTION OR OTHERWISE).
- C MATERIAL/SIZE CHANGE AT NEW LOCATION.

10 NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.

11 WHEN CONNECTING NEW 'DEAD' MAIN TO NEW 'DEAD' MAIN: AS LONG AS THE CONNECTION BRANCH SIZE SHOWN IN THE DRAWINGS CAN BE ACHIEVED, THE FOLLOWING CONNECTION TYPES ARE ACCEPTED AND INTERCHANGEABLE:

12 THE LIVE MAIN CONNECTION DETAIL SHOWN IN THE DRAWINGS SHALL BE FOLLOWED. ANY CHANGES TO THE TIE IN CONNECTION TYPE SHALL BE APPROVED BY THE NATIONAL GRID ENGINEER PRIOR TO CONSTRUCTION.

13 CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED.

14 CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.

15 NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR STATION.

DESIGN CRITERIA

1 DESIGN IN ACCORDANCE WITH THE FOLLOWING:

- A ENG02001 : DESIGN OF GAS SERVICES
- B ENG04001: DESIGN OF DISTRIBUTION MAINS
- C ENG04010: DESIGN REQUIREMENTS FOR INSTALLATION OF CASINGS

2 PROPOSED PIPING:

- A DESIGN CLASS LOCATION – 4
- B NOMINAL SIZE – 2 INCH & 6 INCH
- C MATERIAL – MDPE
- D SYSTEM MAOP – 60 PSIG

3 PIPE SIZE DETERMINED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.

4 WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SERVICE DESIGN CRITERIA

1 DESIGN IN ACCORDANCE WITH THE FOLLOWING:

- A ENG02001: DESIGN OF GAS SERVICES
- B ENG04003: MAOP VERIFICATION POLICY FOR PLASTIC GAS DISTRIBUTION NETWORKS

2 PRIOR TO MAIN ABANDONMENT, THE CONTRACTOR SHALL CONFIRM THAT ALL IMPACTED CUSTOMER SERVICES ARE INSTALLED (E.G., RELAYED, TRANSFERRED, OR INSERTED) ON THE NEW MAIN.

3 WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER-PRESSURE MAIN, AND CONSISTENT WITH ENG04003 (THE POLICY):

- A SERVICES MAY BE RE-VERIFIED AND TRANSFERRED TO THE NEW MAIN ONLY IF ALL REQUIREMENTS IN THE POLICY ARE MET.
- B ALL SERVICES THAT ARE ELIGIBLE FOR RE-VERIFICATION AND TRANSFER SHALL BE IDENTIFIED WITHIN THIS PLAN SET ON THE ASSOCIATED ELIGIBLE SERVICE TABLE.
- C IMPLEMENTATION OF THE POLICY SHALL BE DOCUMENTED PER THE POLICY REQUIREMENTS.

4 WHEN UPRATING, DOWNRATING, OR RELAYING A MAIN WITH A DIFFERENT PRESSURE:

- A CONSTRUCTION SHALL CONTACT ENGINEERING PRIOR TO INSTALLATION FOR ANY CHANGES TO PROPOSED SERVICE SIZING OR INSTALLATION METHOD.
- B ALL INSTALLED SERVICES SHALL BE APPROPRIATELY FITTED WITH SERVICE REGULATORS FOR THE NEW OPERATING PRESSURES.

5 FOR NEW OR RETROFITTED METERFITS, SEE 1703 FORM FOR CUSTOMER METERFIT INFORMATION

PROJECT CONSTRUCTION REQUIREMENTS:

1 PER NATIONAL GRID GAS POLICY DOC# ENG05004, ALL COMPLEX PROJECTS ARE REQUIRED TO PREPARE AN SOP IN ACCORDANCE WITH THE STAMPED PLANS, WHICH MUST BE APPROVED BY A PROFESSIONAL ENGINEER. THE SOP MUST INCLUDE ALL PROPOSED PROJECT SPECIFIC STEPS AND PROCEDURES TO DEFINE AN ADEQUATE SEQUENCE FOR CONSTRUCTION OF THE MAIN.

2 IN ACCORDANCE WITH MASSACHUSETTS 220 CMR 105.00, THE STAMPED SOP IS CONSIDERED PART OF A REQUIRED PROJECT SPECIFIC PACKAGE TO PERFORM ANY COMPLEX PROJECT CONSTRUCTION. THEREFORE, FOR ANY COMPLEX PROJECT CONSTRUCTION WORK, THE CONTRACTOR MUST FOLLOW THE PE STAMPED SOP.

3 PRIOR TO CONSTRUCTION, ALL WATER MAIN AND WATER SERVICES SHALL BE MARKED OUT BY CPW WATER & SEWER DEPARTMENT.

4 ALL WATER MAIN AND SERVICE CROSSINGS SHALL BE HAND DUG AND INSPECTED BY CPW WATER & SEWER DIVISION. INSPECTIONS SHALL OCCUR POST-INSTALLATION AND PRIOR TO TRENCH BACKFILL. A 48-HOUR INSPECTION NOTIFICATION IS REQUIRED.

CODES & STANDARDS

1 WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES IN ADDITIONAL TO NATIONAL GRID GAS POLICIES AND WORK METHODS. WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.

2 ALL REFERENCES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT REVISION AVAILABLE AT THE TIME OF CONSTRUCTION.

3 FEDERAL & STATE

- A TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
- B 220 CMR: DEPARTMENT OF PUBLIC UTILITIES

  100.00 - 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
- C AMERICAN SOCIETY OF MECHANICAL ENGINEERS

  B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS

4 CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:

- A CNST01003: BACKFILL AND RESTORATION
- B CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
- C CNST01006: COMMERCIALLY AVAILABLE SHORING SYSTEMS
- D CNST02014: ENCAPSULATING CAST IRON JOINTS
- E CNST03001: SQUEEZE-OFF OPERATIONS
- F CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS
- G CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES
  - a. CNST03006: PURGING OPERATIONS – DIRECT DISPLACEMENT
  - b. CNST03007: PURGING OPERATIONS – COMPLETE INERT FILL
  - c. CNST03008: PURGING OPERATIONS – SLUG METHOD
- H CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
- I CNST04005: INSTALLING STEEL DISTRIBUTION MAINS
- J CNST04007: FIELD COLD BENDING OF LINE PIPE
- K CNST04008: INSTALLING PLASTIC MAINS
- L CNST04011: ABANDONMENT OF MAINS
- M CNST04012: GROUTING ABANDONED PIPELINES
- N CNST04030: RAISING MAIN AND SERVICE GATE BOXES
- O CNST05001: JOINING OF PLASTIC PIPE
- P CNST01000: GENERAL CONSTRUCTION REQUIREMENTS
- Q DAM01011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND
- R DAM01015: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES
- S DAM01016: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES
- T GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
- U GEN01100: OPERATOR QUALIFICATION PLAN
- V GEN03001: PREPARATION AND PROCESSING OF GAS MAIN AND NEW SERVICE WORK PACKAGES - MASSACHUSETTS
- W GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
- X INR06002: SUPPLEMENTAL ODORIZATION FOR NEW PIPING
- Y MECH5010: JOINTS OTHER THAN WELDED
- Z 030018-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES

5 SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:

- A CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
- B CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES
- C CNST03011: NO-INTERRUPT SERVICE TRANSFER
- D CNST06002: INSTALLING DISTRIBUTION SERVICES
- E CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED METER CAPACITIES OVER 1,000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES
- F CNST06009: METER/SERVICE RELOCATION GUIDELINE
- G CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
- H CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE
- I CS-SERV001: TYPICAL 1/2" SERVICE OUTSIDE SETS
- J CS-SERV002: TYPICAL 1" SERVICE OUTSIDE SETS
- K CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS
- L CS-SERV004: TYPICAL 2" SERVICE
- M CS-SERV005: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES
- N CS-SERV009: TYPICAL 1/2" SERVICE INSIDE SETS
- O CS-SERV010: TYPICAL 1" SERVICE INSIDE SETS
- P HTAP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG MAINS
- Q SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE
- R SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN - 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL
- S SERV-6186: HOT TAPPING BRANCH SADDLES OFF 4"-12" LIVE PLASTIC GAS MAIN USING HDPE SUPRAFLOW TEES
- T VALV6110: 1/2 INCH - 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION

7 SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION, STANDARD AND/OR APPLICABLE NATIONAL GRID "FITS" REFERENCE.

- A FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

PRESSURE TESTING

1 PRESSURE TEST MAIN IN ACCORDANCE WITH:

- A CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
- B TEST PRESSURE (MINIMUM): 90 PSIG
- C TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1.
- D TEST MEDIUM: AIR AND/OR NITROGEN

2 PRESSURE TEST SERVICES IN ACCORDANCE WITH:

- A CNST06008: PRESSURE TESTING SERVICE LINES

WELDING

1 NATIONAL GRID WELDING GAS POLICIES AND WORK METHODS INCLUDE:

- A CNST05002: WELDING POLICY
- B CNST05003: PIPE WELDING SAFETY
- C CNST05005: WELDING PROCEDURE SPECIFICATIONS
- D MS-030: WELDING FILLER MATERIALS

2 PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL SUBMIT WELDER CERTIFICATION DOCUMENTS FOR EACH OF THE WELDERS EMPLOYED ON THIS PROJECT.

3 WELDING PROCEDURE SPECIFICATIONS REQUIRED:

- A BUTT WELDS (GROOVE): WPS-SMAW-E6010/7010 (LATEST REVISION)
- B FILLET WELDS (BRANCH): WPS-SMAW-E6010/7010 (LATEST REVISION)

4 10% (AT LEAST 1) OF WELDS IN EACH CATEGORY BELOW SHALL BE SUBJECT TO NON-DESTRUCTIVE EXAMINATION (NDE).

- A BUTT WELDS 2-INCH AND GREATER: 10% RADIOGRAPH
- B BUTT WELDS < 2-INCHES: 10% MAGNETIC PARTICLE
- C FILLET WELDS: 10% MAGNETIC PARTICLE

5 FOR EXPOSED MAIN INSTALLED ON A BRIDGE OR BURIED MAIN UNDER BRIDGE APPROACH SLABS, 100% OF THE WELDS SHALL BE SUBJECTED TO NDE.

- A 100% OF BUTT WELDS > 2" SHALL BE RADIOGRAPHED
- B 100% OF WELDS <= 2" SHALL RECEIVE MAGNETIC PARTICLE TESTING
- C 100% OF FILLET WELDS SHALL BE MAGNETIC PARTICLE TESTED

6 NDE AND WELD MAP SHALL BE PROVIDED BY SKYTESTING.

7 SKYTESTING SCHEDULING CONTACT:

NAME: WILLIAM (BILL) CLARK

CELL: 704-858-7794

EMAIL: WCLARK@SKYTESTING.COM

CATHODIC PROTECTION

1 IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:

- A (CONSTRUCTION) DAVE HALNEN: (781) 379-7831
- B (DESIGN REVIEW) ALANNA GRONDINE: (339) 225-5378
- C (ATMOSPHERIC) ALISSIA APINIAN-MARGIOS: (781) 296-7569

2 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.

3 NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:

- A COR01100: CORROSION DESIGN CRITERIA
- B COR02001: APPLICATION OF COATING SYSTEMS
- C COR02020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
- D COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION
- E COR03001: TESTING OF PIPE COATING (JEEP TESTING)
- F COR04001: INSTALLATION OF MAGNESIUM ANODES
- G COR04003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
- H COR04004: INSTALLATION OF WIRE CONNECTIONS
- I COR04005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
- J 030031-CS: FACILITY COATING GUIDE

4 CORROSION DESIGN: SEE CONTENTS OF THIS DESIGN FOR CATHODIC PROTECTION REQUIREMENTS.

ENVIRONMENTAL

1 WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.

2 ENVIRONMENTAL ENGINEERING CONTACT:

JAIME WALKER

PHONE: (978) 551-1156

EMAIL: JAIME.WALKER@NATIONALGRID.COM

3 CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR ENVIRONMENTAL GUIDANCE FORMS, FOR EXAMPLE EG-301, FOR THE RESPECTIVE STATE.

4 WHEN SOILS OR LIQUIDS ARE ENCOUNTERED THAT ARE BELIEVED TO BE CONTAMINATED WITH OIL AND/OR HAZARDOUS MATERIAL, EXCAVATION WORK SHALL BE HAULTED AND FIELD PERSONNEL SHALL NOTIFY THEIR IMMEDIATE SUPERVISOR.

5 NO EXCAVATED SOIL SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.

6 NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:

- A SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING
- B SHE02002: REMOVING MERCURY REGULATORS AND DEVICES
- C SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
- D EG303-NE: BEST MANAGEMENT PRACTICES
- E EG140: USED GAS PIPE MANAGEMENT

7 ENVIRONMENTAL REQUIREMENTS: PROPOSED WORK IS LOCATED WITHIN 100 FEET OF WETLANDS AND/OR BODIES OF WATER / WITHIN 200 FEET OF A RIVER OR A STREAM (*25 FEET IN BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, EVERETT, FALL RIVER, LAWRENCE, LOWELL, MALDEN, NEW BEDFORD, SOMERVILLE, SPRINGFIELD, WINTHROP OR WORCESTER)/ WITHIN A FLOODPLAIN.
ENVIRONMENTAL PERMIT AND/OR THE USE OF ENVIRONMENTAL BMPS MAY BE REQUIRED. SEE ENVIRONMENTAL MEMO FOR DETAILS.

SAFETY

1 WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.

2 REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.

3 A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.

4 CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART VI AND SHALL BE MAINTAINED BY THE CONTRACTOR.

5 NATIONAL GRID SAFETY PROCEDURES COVER THE FOLLOWING CATEGORIES:

- A A- ADMINISTRATIVE; B- INSPECTIONS; C- WALKING WORKING SURFACES; D- MEANS OF EGRESS; E- MATERIAL HANDLING AND STORAGE; F- TOXIC AND HAZARDOUS SUBSTANCES; G- HAZARDOUS MATERIALS; H- PERSONAL PROTECTIVE EQUIPMENT; I- GENERAL ENVIRONMENTAL CONTROLS, J- ACCIDENT INVESTIGATION; K- MACHINERY AND GUARDING; L- WELDING/CUTTING/BRAZING; M- EXCAVATIONS; N- CONTRACTORS; FIRE PROTECTION; Q- FLEET AND ROADWAY SAFETY

6 GAS WORK METHODS SAFETY PROCEDURES INCLUDE:

- A SHE01001: GENERAL SAFETY REQUIREMENTS
- B SHE01002: SUPPLIED-AIR RESPIRATORS
- C SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS
- D SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS
- E SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
- F SHE01006: ENTERING GAS UTILITY VAULTS
- G SHE01007: INTERNAL PIPE SEALING
- H SHE01008: USING AND MAINTAINING THE GAS-EXPLORER
- I SHE01009: USING AND MAINTAINING THE HEATH INFRARED METHANE DETECTOR
- J SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES PERFORMED IN THE FIELD

7 ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR GROUNDWATER MUST HAVE UP-TO-DATE OSHA 40-HOUR HAZWOPER TRAINING. COPIES OF OSHA CERTIFICATES/TRAINING REFRESHERS SHALL BE PROVIDED TO NATIONAL GRID FOR REVIEW PRIOR TO THE START OF WORK.

OTHER PERMITTING REQUIREMENTS

1 STREET OPENING PERMIT

2 CONCORD GOL

3 CONCORD TMP

UTILITY OWNER INFORMATION

1 CONCORD DPW - DRAIN

2 NATIONAL GRID - GAS

3 CONCORD WATER AND SEWER - WATER

4 CONCORD MUNICIPAL LIGHT PLANT - ELECTRIC AND FIBER OPTIC

REFERENCE DRAWINGS

1 LOCATION OF IDENTIFIED UNDERGROUND UTILITIES ARE AN APPROXIMATE BASED ON AVAILABLE RECORD AND FIELD INFORMATION IN ACCORDANCE WITH CI/ASCE 38-02. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT IDENTIFIED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATIONS, ETC.

DESIGN CONSULTANT

1 BL COMPANIES

ANDREW J. CAVALLO, P.E.

PHONE: (781) 619-9515

EMAIL: ACAVALLO@BLCOMPANIES.COM

Architecture
Engineering
Environmental
Land Surveying
BL Companies

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/23/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

CONSTRUCTION NOTES

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-02	G-002

BILL OF MATERIALS								
WORK ORDER #	TOWN CODE	ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	NATIONAL GRID REFERENCE	SAP ID NUMBER
1251313	CON	1	20	FT	PIPE, PLASTIC, MDPE, SDR 11 (10' STICKS)	2	120026-MS	9322709
1251313	CON	2	3,450	FT	PIPE, PLASTIC, MDPE, SDR 11.5	6	120026-MS	9384339
1251313	CON	3	66	EA	ELBOW, PLASTIC, 45 DEGREE, MDPE	6	CS-FIT011	9341401
1251313	CON	4	5	EA	TEE, PLASTIC, FULL, MDPE	6	CS-FIT012	9342522
1251313	CON	5	5	EA	REDUCER, PLASTIC, MDPE	6 x 4	CS-FIT013	9342678
1251313	CON	6	5	EA	REDUCER, PLASTIC, MDPE	4 x 2	CS-FIT013	9384553
1251313	CON	7	2	EA	COUPLING, PLASTIC ELECTROFUSION	6	CS-FIT015	9314592
1251313	CON	8	8	EA	COUPLING, PLASTIC ELECTROFUSION	2	CS-FIT015	9314594
1251313	CON	9	4	EA	VALVE, BALL, MDPE, FULL PORT	6	VALV6020	9323032
1251313	CON	10	4	EA	VALVE, BALL, MDPE, FULL PORT	2	VALV6020	9341784
1251313	CON	11	4	EA	VALVE, BOX ASSEMBLY (FOR FULL PORT 6" VALVE)	6	VALV6020	9339893
1251313	CON	12	4	EA	VALVE, BOX ASSEMBLY	2	VALV6020	9339890
1251313	CON	13	2	EA	CAP, MDPE, BUTT FUSION	6	CS-FIT010	9339733
1251313	CON	14	4	EA	CAP, PLASTIC, ELECTROFUSION	2	CS-FIT015	9393634
1251313	CON	15	2	EA	TEE, TDW, THREE-WAY, CONTOURED	2	FITS6055	9310679
1251313	CON	16	5	EA	CAP, MDPE, BUTT FUSION	2	CS-FIT010	9339540
1251313	CON	17	2	EA	TRANSITION, PLASTIC TO STEEL	2	120026-MS	9339392
1251313	CON	18	2	EA	FITTING, SHORTSTOPP, TDW	2	FITS6055	9341087
1251313	CON	19	2	EA	CAP, WELDED, STEEL	2	MAIN6045	9312095
1251313	CON	20	3	EA	TEE, SERVICE, ELECTROFUSION	2 x 2	CS-FIT015	9314590
1251313	CON	21	2	EA	ELBOW, PLASTIC, 90 DEGREE, MDPE	2	CS-FIT011	9341385
1251313	CON	22	7	EA	ELBOW, PLASTIC, 90 DEGREE, MDPE	6	CS-FIT011	9341218
1251313	CON	23	2	EA	CAP, COMPRESSION, RESTRAINING, 2 INCH IPS, NUT TYPE DRESSER STYLE 90	2	FITS6024	9315991
1251313	CON	24	1	EA	ELBOW, PLASTIC, 90 DEGREE, MDPE	2	CS-FIT011	9341385
1251313	CON	25	1	EA	COUPLING, PLASTIC ELECTROFUSION, IPS x IPS	2 x 1-1/4	CS-FIT015	9341449
1251313	CON	26	0	N/A	NOT USED	N/A	N/A	N/A
1251313	CON	27	0	N/A	NOT USED	N/A	N/A	N/A
1251313	CON	28	1	EA	CAP, PLASTIC, STAB FITTING, IPS	1-1/4	CS-FIT017	9307229
1251313	CON	29	1	EA	TEE, PLASTIC, FULL, MDPE	2	CS-FIT012	9342031
1251313	CON	30	0	N/A	NOT USED	N/A	N/A	N/A
1251313	CON	31	0	N/A	NOT USED	N/A	N/A	N/A
1251313	CON	32	0	N/A	NOT USED	N/A	N/A	N/A
1251313	CON	33	0	N/A	NOT USED	N/A	N/A	N/A
GENERAL								
1251313	CON	G1	A/R	FT	TRACER WIRE		CNST6061	9315005
1251313	CON	G2	A/R	ROLL	YELLOW CAUTION TAPE - GAS MAIN - 6" WIDE	6	CNST6060	9341904
PRESSURE TESTING (TEMPORARY)								
1251313	CON	P1	A/R	EA	CAP, MDPE, BUTT FUSION	2	CS-FIT010	9339540
1251313	CON	P2	A/R	EA	CAP, MDPE, BUTT FUSION	6	CS-FIT010	9339733
CATHODIC PROTECTION								
1251313	CON	C1	2	EA	CP TEST BOX W/ COVER	N/A	030026-CS	(SEE STD)
1251313	CON	C2	4	EA	17# ANODE	N/A	030024-CS	9311183
1251313	CON	C3	A/R	FT	WIRE NO. 8	N/A	030026-CS	9307539

*ACTUAL LENGTH/QUANTITY OF PIPE AND FITTINGS MAY VARY DUE TO FIELD CONDITIONS. ADDITIONAL MATERIALS MAY NOT BE REFERENCED ABOVE THAT ARE INCLUDED IN THE BOM OF NATIONAL GRID CONSTRUCTIONS STANDARDS REFERENCED IN THIS DESIGN PACKAGE.

4

DRAWING LEGEND

- EXISTING CS 60 PSIG GAS MAIN
- EXISTING PE 60 PSIG GAS MAIN
- EXISTING CS 60 PSIG GAS MAIN (TO BE ABANDONED)
- EXISTING PE 60 PSIG GAS MAIN (TO BE ABANDONED)
- PROPOSED MDPE 60 PSIG GAS MAIN
- PROPOSED VALVE
- PROPOSED REDUCER
- PROPOSED END CAP
- EXISTING VALVE (NORMALLY OPEN)
- EXISTING SERVICE VALVE
- EXISTING DRIP POT
- EXISTING REDUCER
- EXISTING END CAP
- EXISTING COUPLING
- EXISTING WATER MAIN
- EXISTING DRAINAGE
- EXISTING ELECTRIC DUCT
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING CATCH BASIN
- EXISTING DRAIN MANHOLE
- CURBLINE
- APPROX. PROPERTY LINES
- EDGE OF BUILDING
- EXISTING STONE WALL

ABBREVIATION LIST:
CB – CATCH BASIN
CMLP CONCORD MUNICIPAL LIGHT PLANT
CPP – CAST POLYPROPYLENE
CPW – CONCORD PUBLIC WORKS
INV – INVERT
MH – MANHOLE
MP – METAL PIPE
NGRID – NATIONAL GRID
PVC – POLYVINYL CHLORIDE
RCP – REINFORCED CONCRETE PIPE
STM MH – STORM MANHOLE
WV – WATER VALVE

Architecture
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Companies

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/23/24
Andrew J. Cavallo
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
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0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

BILL OF MATERIALS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	08/26/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-03	G-003

MAIN CONNECTION (MC) IDENTIFICATION LEGEND	
PE DESIGN	SOP
MC-A	
MC-B	
MC-C	
MC-D	
MC-E	

SCENIC ROAD BYLAW NOTE:

1) MONUMENT STREET HAS BEEN ACCEPTED AS A SCENIC RD AND IS LINED ON BOTH SIDES BY STONE WALLS AND MATURE TREES. IN ACCORDANCE WITH CONCORD'S SCENIC ROADS RULES AND REGULATIONS ADOPTED 2/20/24, NO TREES OR STONEWALLS SHOULD BE DISTURBED DURING THE COURSE OF ANY MAIN OR SERVICE WORK. ACCORDING TO THE BYLAW, A TREE SHALL BE DEFINED AS A PERENNIAL WOODY PLANT WHOSE TRUNK HAS A DIAMETER OF SIX (6) INCHES OR MORE AS MEASURED FOUR (4) FEET ABOVE THE GROUND.

DESIGN PARAMETERS:
WO#1251313 – 475-806 MONUMENT ST, CON
SYSTEM NUMBER: WEST AREA 60#
SYSTEMS' MOPS (PSIG, OR "LP"): 60 PSIG
EXPECTED OPERATING PRESSURE RANGE: 10 – 60 PSIG
DESIGN DAY TEMPERATURE (°F): 0°F
MIN & MAX OPERATING TEMPERATURE RANGE (°F): -20°F TO +73°F
STREET NAME: MONUMENT ST
SIZING RECOMMENDATION: 6IN PL
NEW MAINS' DESIGN PRESSURE: 60 PSIG
DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 16
SINGLE FEED SYSTEM: NO
STREET NAME: CARR RD
SIZING RECOMMENDATION: 2IN PL
NEW MAINS' DESIGN PRESSURE: 60 PSIG
DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 1
SINGLE FEED SYSTEM: YES
REVIEWED BY: OMESH KAMAT. REVIEW DATE: 12/08/2021

SCOPE OF WORK:
AS PART OF THE GRTHREPA PROGRAM, STRATEGIC ASSET AND SYSTEM PLANNING RECOMMENDS:
--> REPLACE 3,450 FEET OF 2" 60 PSIG CS (1930) (DCON0064, ICON0003) AND 2" 60 PSIG PL (1977/1986) MAIN ON MONUMENT ST WITH 3, 450 FEET OF 6" 60 PSIG PL FROM LIBERTY ST TO #806.
--> REPLACE 10 FEET OF 2" 60 PSIG PL (1986) MAIN WITH 10 FEET OF 2" 60 PSIG PL MAIN IN THE INTERSECTION OF CARR RD AND MONUMENT ST.

GAS NOTES:

1) THE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT IS REQUIRED/RECOMMENDED DUE TO THE LENGTH AND PRESSURE OF THE EXISTING MAIN. CONTACT DAVE LESSARD OR JIM MCNEILL ONE MONTH PRIOR TO THE START OF CONSTRUCTION TO COORDINATE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT.
2) PER INR06002, NEW STEEL OR PLASTIC GAS MAIN INSTALLATIONS IN EXCESS OF 2,500 FEET REQUIRE A SNIFF CHECK TO ASSESS THE NEED FOR ADDITIONAL MONITORING AND/OR SUPPLEMENTAL ODORIZATION. PLEASE CONTACT I&R PRIOR TO WORK TO COORDINATE THE SNIFF CHECK

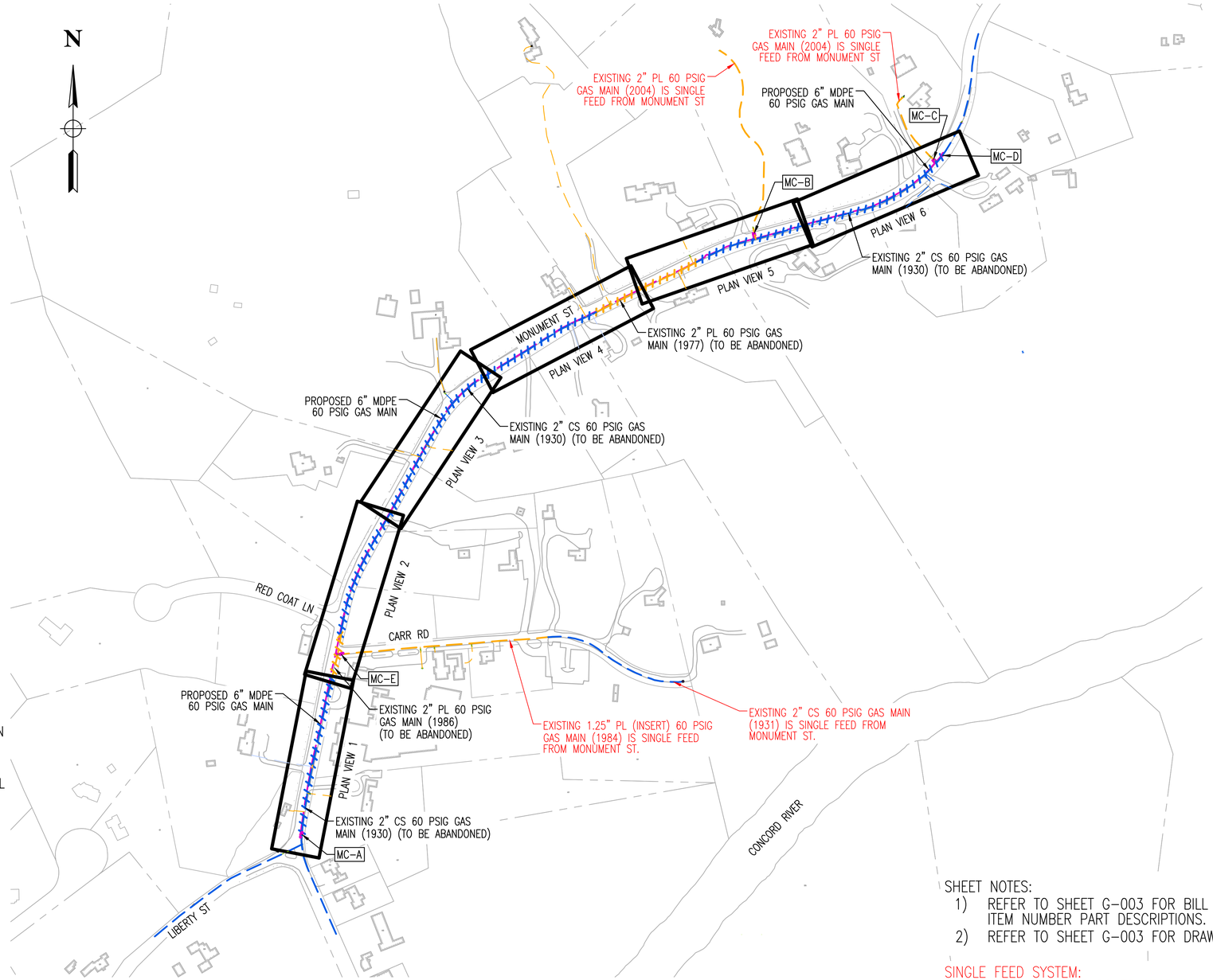
SURVEY NOTES:

1) SURFACE INFORMATION TAKEN FROM MASSGIS IN NAVD88 DATUM.
2) MASS STATE PLANE (FEET) IS USED FOR THE HORIZONTAL DATUM.
3) INVERTS, SIZE AND MATERIAL OF DRAINS HAVE BEEN COMPILED FROM BL SURVEY CONDUCTED APRIL 2024.
4) EXISTING UTILITIES SHOWN WERE COMPILED FROM MAPPING PROVIDED BY TOWN OF CONCORD ENGINEERING DEPARTMENT AND ARE NOT WARRANTED TO BE CORRECT.
5) WATER GATES WERE LOCATED BY BL SURVEY CONDUCTED APRIL 2024.

TOWN UTILITY NOTES:

1. MAINTAIN A MINIMUM 12" VERTICAL AND HORIZONTAL SEPARATION FROM TOWN OF CONCORD AND CMLP, EDGE-TO-EDGE (DRAINAGE PIPES, CATCH BASINS AND INLETS, MANHOLES, FOUNDATIONS, ELECTRICAL CONDUIT, ETC.) WITHIN THE RIGHT OF WAY ON ALL CONCORD TOWN ROADWAYS.
2. MAINTAIN A MINIMUM 12" VERTICAL AND 36" HORIZONTAL SEPARATION FROM TOWN OF CONCORD WATER MAINS.
3. MAINTAIN A MINIMUM 24" SEPARATION BETWEEN PROPOSED GAS MAIN AND EXISTING UTILITY POLES.

TOTAL WORK ORDER QUANTITIES	
TOTAL PIPE INSTALLATION	ESTIMATED
6" PIPE, MDPE, SDR 11.5	3,450'
2" PIPE, MDPE, SDR 11	10'



PLAN OVERVIEW
200 100 0 200
SCALE 1"=200'

SHEET NOTES:

1) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
2) REFER TO SHEET G-003 FOR DRAWING LEGEND.

SINGLE FEED SYSTEM:
WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

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COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/25/24
Andrew J. Cavallo
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

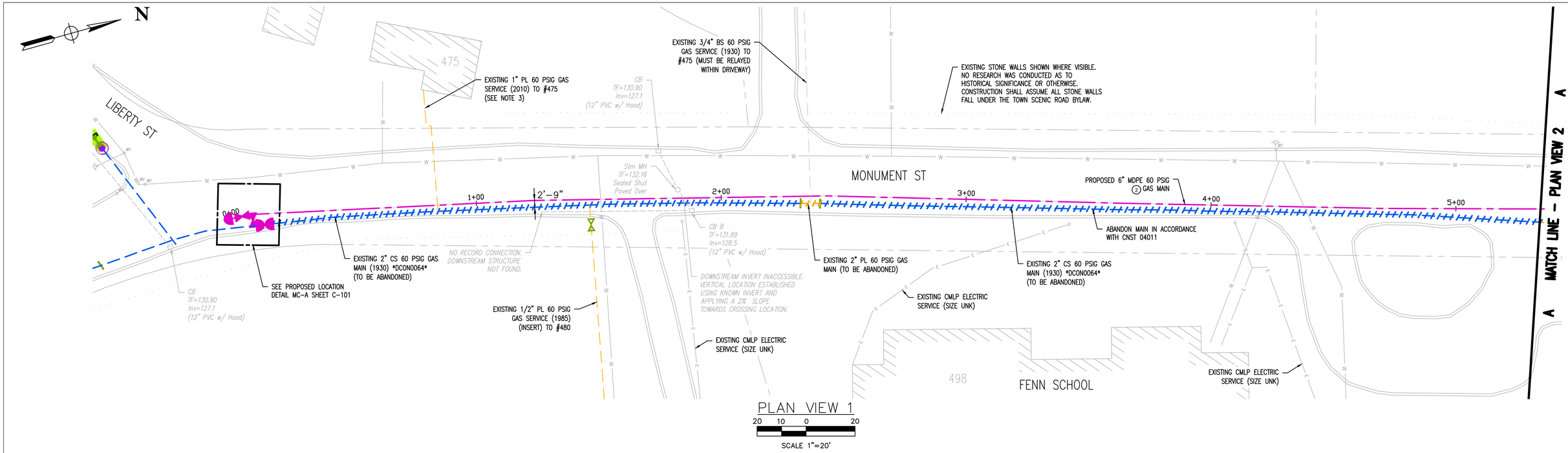
IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN OVERVIEW

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

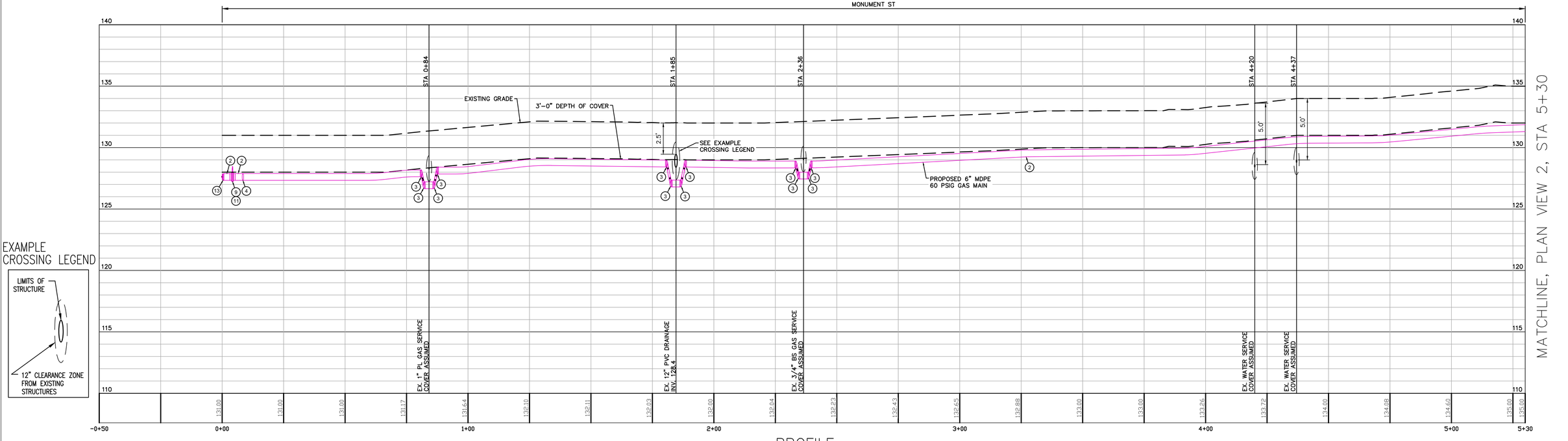
DRAWING NO.	SHEET NO.
CON-1251313-04	C-001



PLAN VIEW 1

20 10 0 20

SCALE 1"=20'



EXAMPLE CROSSING LEGEND

PROFILE

SCALE 1"=20' HORIZONTAL

SCALE 1"=4' VERTICAL

MATCHLINE, PLAN VIEW 2, STA 5+30

4 2 0 2 4

SCALE 1"=4'

20 10 0 20

SCALE 1"=20'

SHEET NOTES:

1) REFER TO "TOWN UTILITY NOTES" ON C-001 FOR CLEARANCE REQUIREMENTS FROM EXISTING UTILITIES.
2) ALL WATER MAIN AND SERVICE CROSSINGS SHALL BE HAND DUG AND INSPECTED BY CPW WATER AND SEWER DIVISION. INSPECTIONS SHALL OCCUR POST-INSTALLATION AND PRIOR TO TRENCH BACKFILL. A 48-HOUR NOTIFICATION IS REQUIRED.
3) SERVICE INFORMATION ON MONUMENT ST WAS COMPILED FROM AVAILABLE SERVICE CARDS AND SPIPE REPORTS. RECORDS AT TIMES CONFLICTED OR WERE INCONSISTENT. SERVICE INFORMATION SHOULD BE FIELD VERIFIED. REFERENCE SCENIC BYLAW NOTE ON C-001 FOR RESTRICTIONS ON SERVICE WORK.
4) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
5) REFER TO SHEET G-003 FOR DRAWING LEGEND.
6) THE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT IS REQUIRED/RECOMMENDED DUE TO THE LENGTH AND PRESSURE OF THE EXISTING MAIN. CONTACT DAVE LESSARD OR JIM MCNEILL ONE MONTH PRIOR TO THE START OF CONSTRUCTION TO COORDINATE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT.
7) PROJECT IS OVER 2500 FEET IN LENGTH. PLEASE CONTACT I&R PRIOR TO EXECUTING THE PROJECT FOR SUPPLEMENTAL ODORIZATION. INR06002

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1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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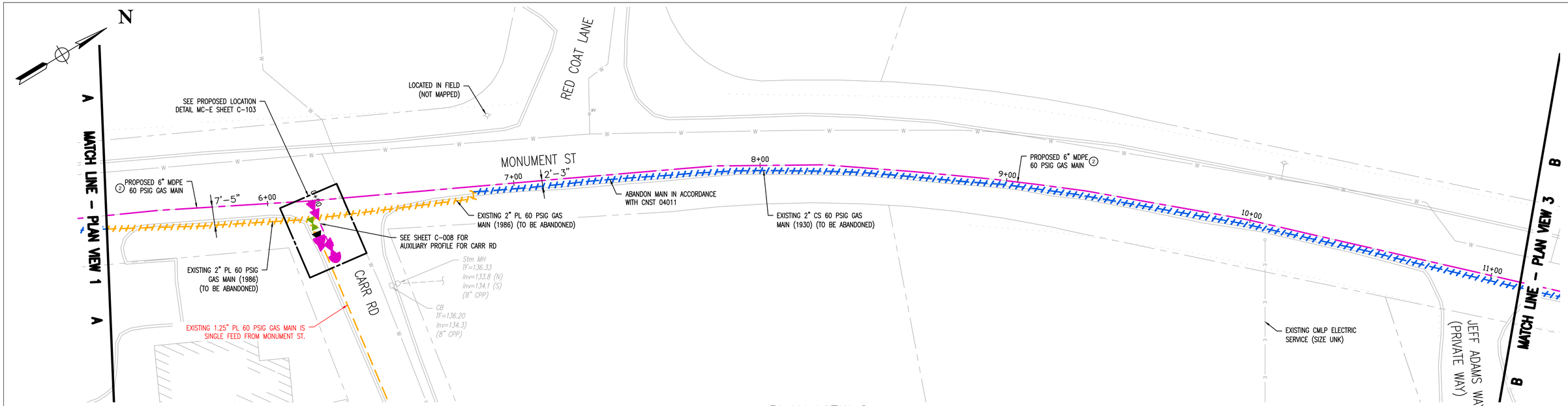
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 1 OF 7

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

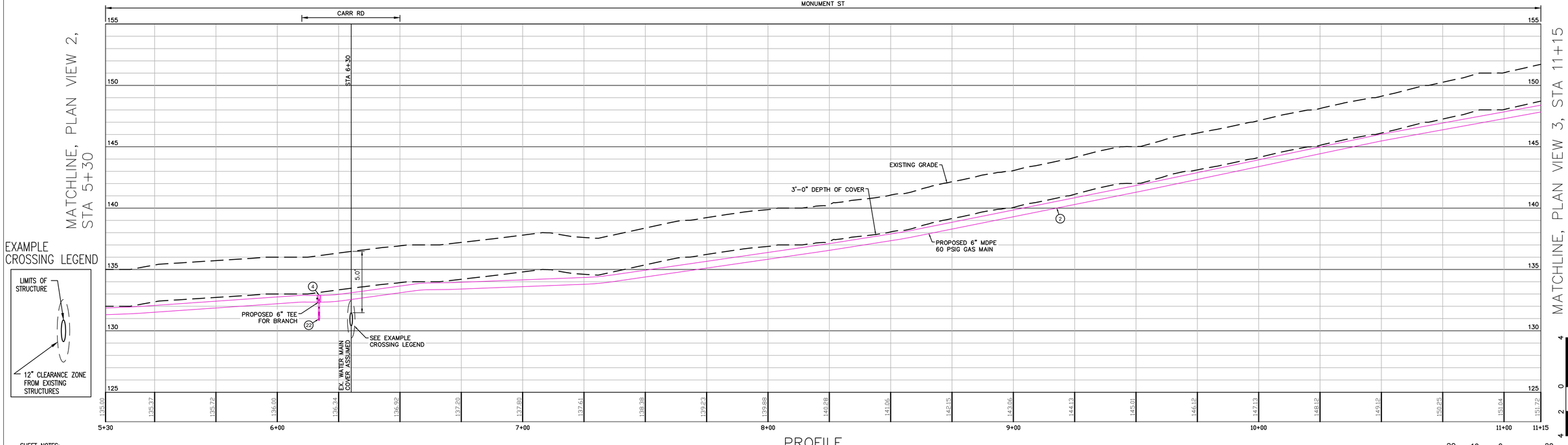
DRAWING NO.	SHEET NO.
CON-1251313-05	C-002



PLAN VIEW 2

20 10 0 20

SCALE 1"=20'



PROFILE

SCALE 1"=20' HORIZONTAL

SCALE 1"=4' VERTICAL

EXAMPLE
CROSSING LEGEND

SHEET NOTES:

1) REFER TO "TOWN UTILITY NOTES" ON C-001 FOR CLEARANCE REQUIREMENTS FROM EXISTING UTILITIES.
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5) REFER TO SHEET G-003 FOR DRAWING LEGEND.
6) REFER TO SHEET G-003 FOR SINGLE FEED SYSTEM NOTE.
7) THE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT IS REQUIRED/RECOMMENDED DUE TO THE LENGTH AND PRESSURE OF THE EXISTING MAIN. CONTACT DAVE LESSARD OR JIM MCNEILL ONE MONTH PRIOR TO THE START OF CONSTRUCTION TO COORDINATE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT.
8) PROJECT IS OVER 2500 FEET IN LENGTH. PLEASE CONTACT I&R PRIOR TO EXECUTING THE PROJECT FOR SUPPLEMENTAL ODORIZATION. INR06002

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ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
11/25/24
Andrew J. Cavallo
SIGN & DATE

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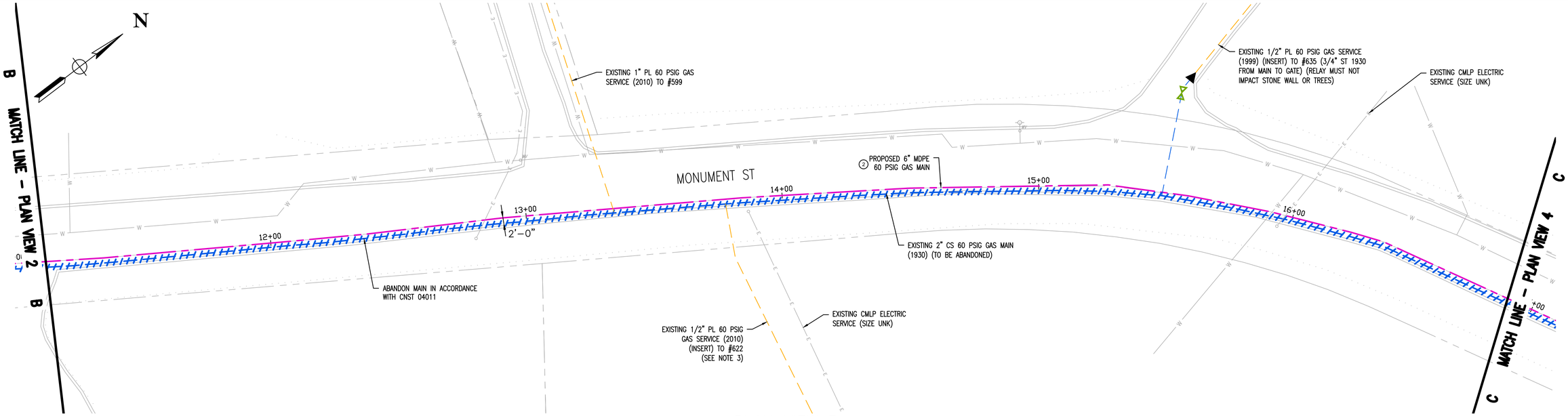
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 2 OF 7

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

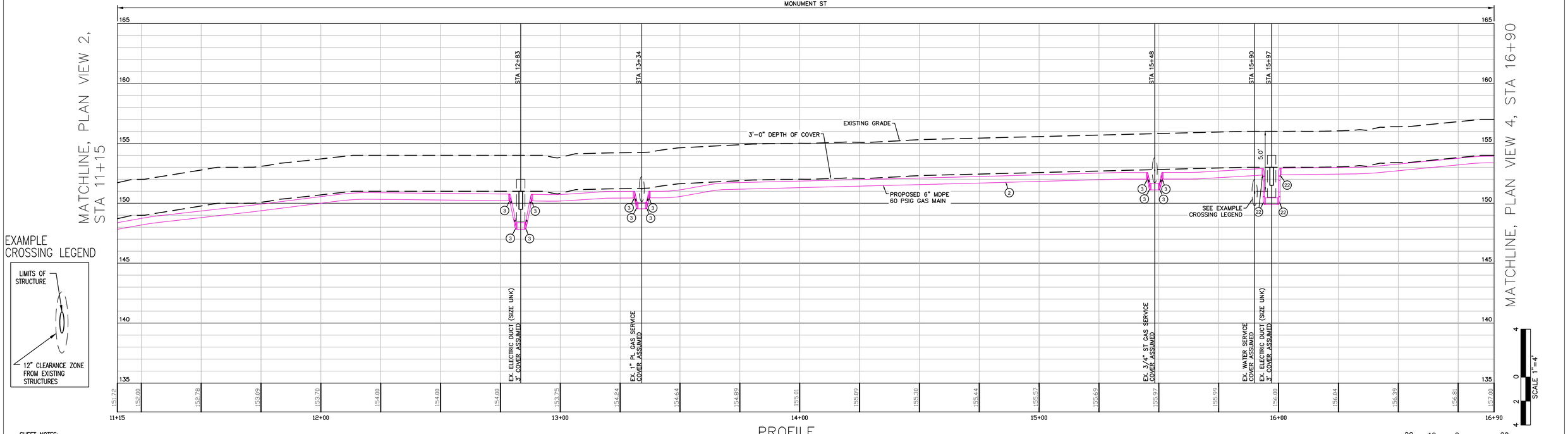
DRAWING NO.	SHEET NO.
CON-1251313-06	C-003



PLAN VIEW 3

20 10 0 20

SCALE 1"=20'



EXAMPLE CROSSING LEGEND

PROFILE

SCALE 1"=20' HORIZONTAL

SCALE 1"=4' VERTICAL

20 10 0 20

SCALE 1"=20'

SHEET NOTES:

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4) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
5) REFER TO SHEET G-003 FOR DRAWING LEGEND.
6) THE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT IS REQUIRED/RECOMMENDED DUE TO THE LENGTH AND PRESSURE OF THE EXISTING MAIN. CONTACT DAVE LESSARD OR JIM MCNEILL ONE MONTH PRIOR TO THE START OF CONSTRUCTION TO COORDINATE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT.
7) PROJECT IS OVER 2500 FEET IN LENGTH. PLEASE CONTACT I&R PRIOR TO EXECUTING THE PROJECT FOR SUPPLEMENTAL ODORIZATION. INR06002

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0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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nationalgrid
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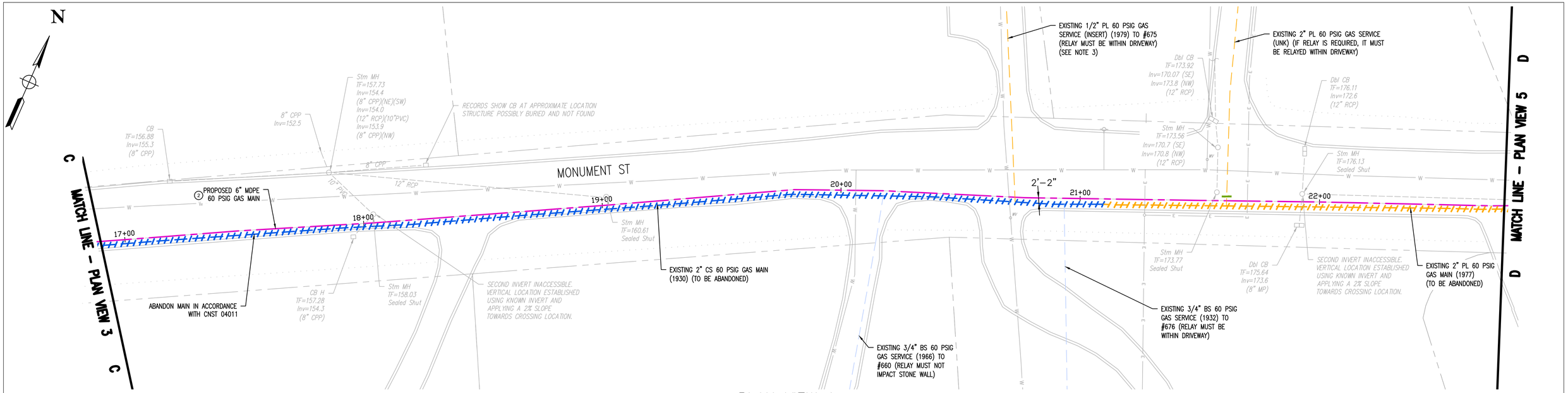
TA
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 3 OF 7

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

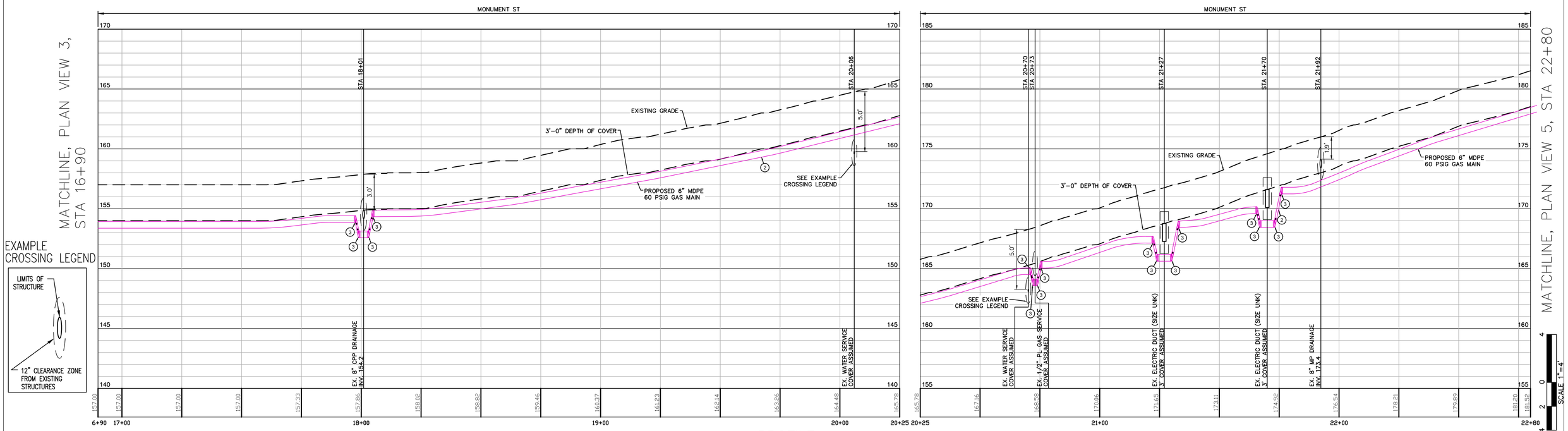
DRAWING NO.	SHEET NO.
CON-1251313-07	C-004



PLAN VIEW 4

20 10 0 20

SCALE 1"=20'



PROFILE

SCALE 1"=20' HORIZONTAL

SCALE 1"=4' VERTICAL

SHEET NOTES:

1) REFER TO "TOWN UTILITY NOTES" ON C-001 FOR CLEARANCE REQUIREMENTS FROM EXISTING UTILITIES.
2) ALL WATER MAIN AND SERVICE CROSSINGS SHALL BE HAND DUG AND INSPECTED BY CPW WATER AND SEWER DIVISION. INSPECTIONS SHALL OCCUR POST-INSTALLATION AND PRIOR TO TRENCH BACKFILL. A 48-HOUR NOTIFICATION IS REQUIRED.
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ANDREW
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No. 54294
REGISTERED
PROFESSIONAL ENGINEER
09/25/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
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2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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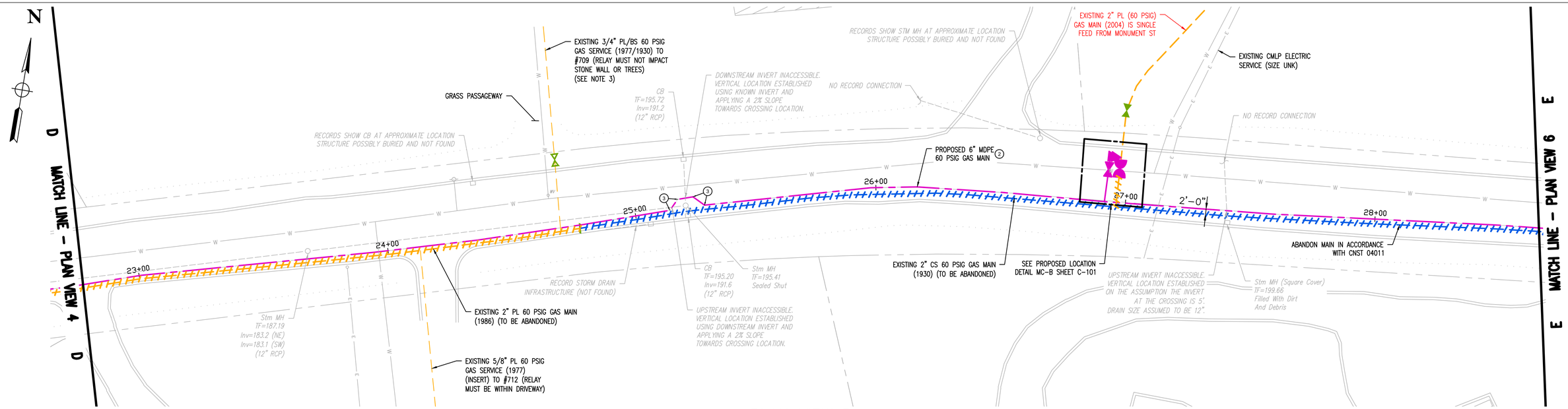
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 4 OF 7

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

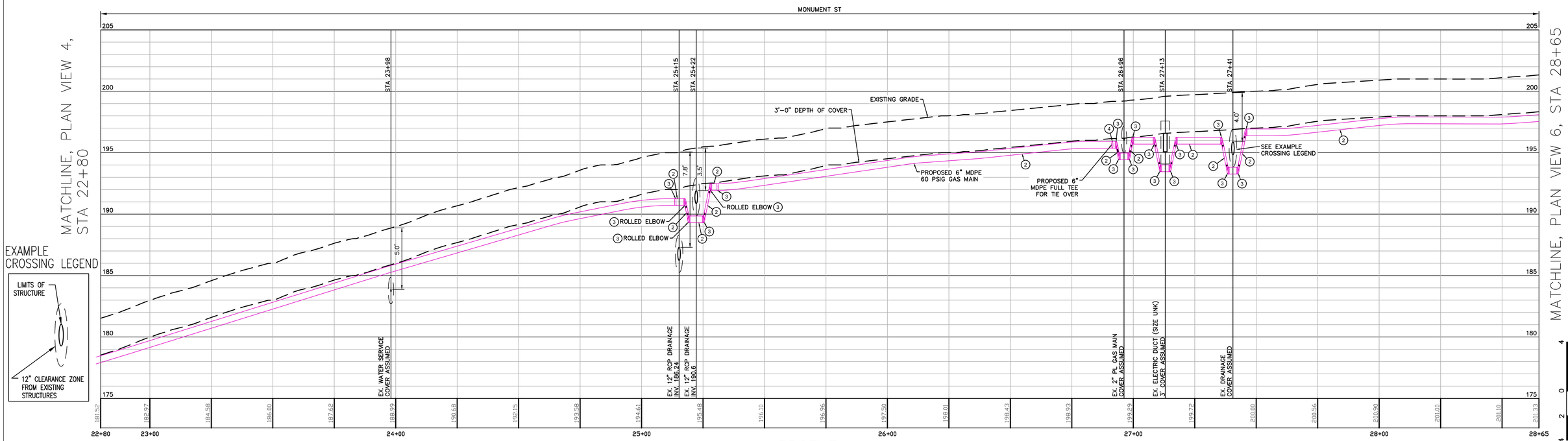
DRAWING NO.	SHEET NO.
CON-1251313-08	C-005



PLAN VIEW 5

20 10 0 20

SCALE 1"=20'



EXAMPLE CROSSING LEGEND

PROFILE

SCALE 1"=20' HORIZONTAL

SCALE 1"=4' VERTICAL

20 10 0 20

SCALE 1"=20'

SHEET NOTES:

1) REFER TO "TOWN UTILITY NOTES" ON C-001 FOR CLEARANCE REQUIREMENTS FROM EXISTING UTILITIES.
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MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
07/25/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
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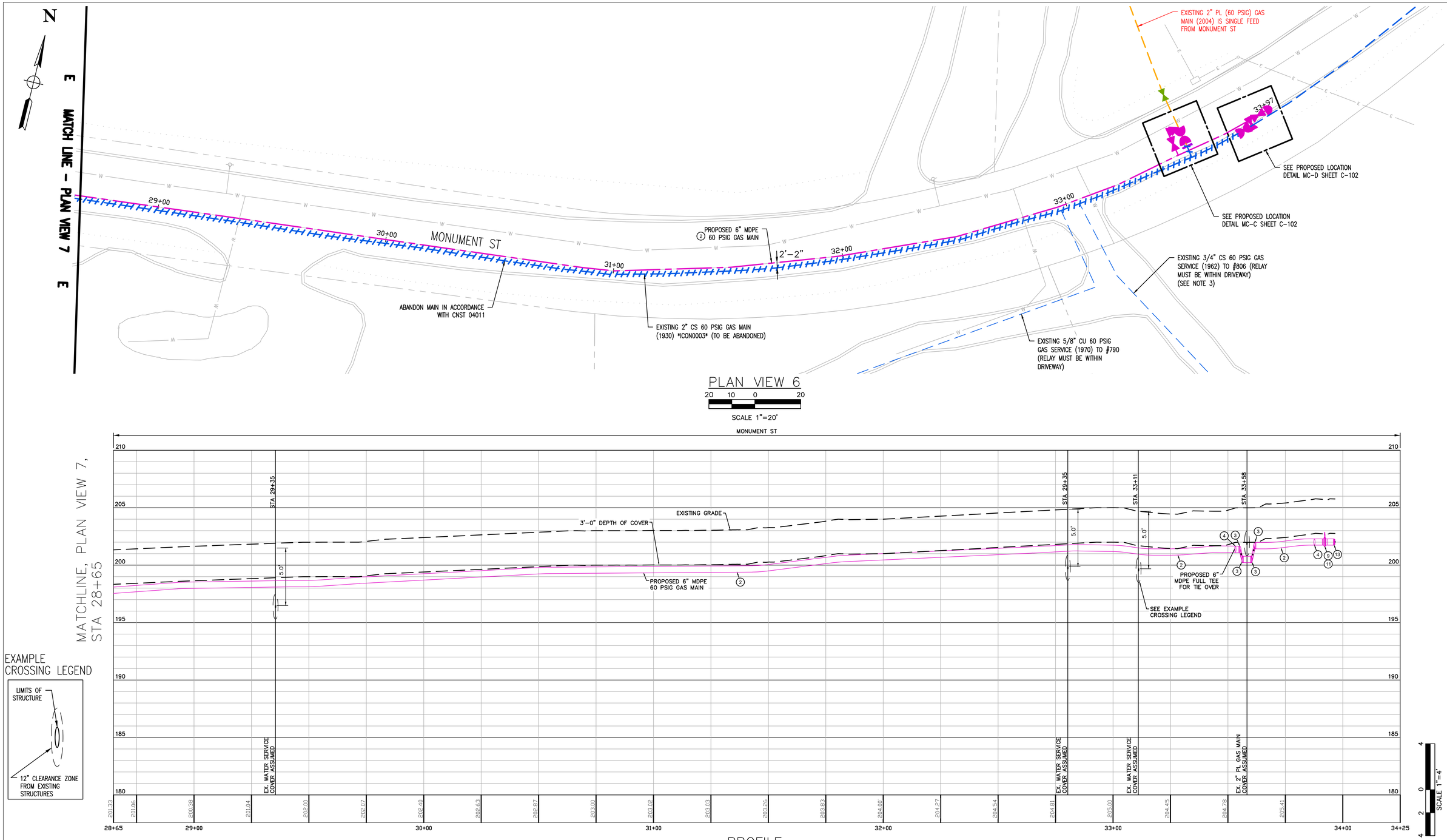
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 5 OF 7

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-09	C-006



PLAN VIEW 6

20 10 0 20

SCALE 1"=20'

PROFILE

SCALE 1"=20' HORIZONTAL

SCALE 1"=4' VERTICAL

20 10 0 20

SCALE 1"=20'

EXAMPLE CROSSING LEGEND

SHEET NOTES:

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11/25/24
Andrew J. Cavallo
SIGN & DATE

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3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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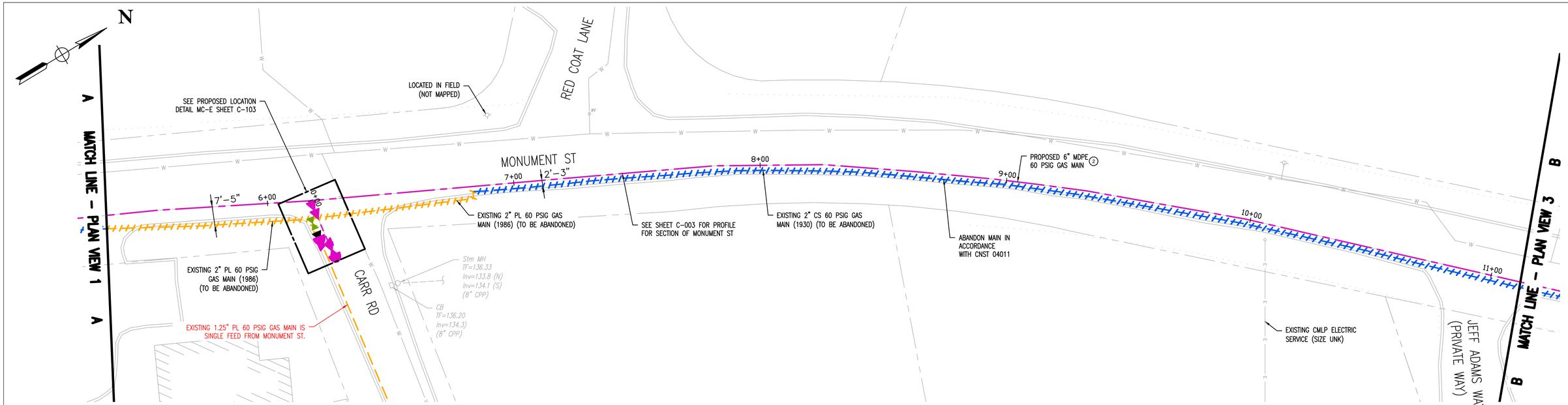
IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 6 OF 7

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

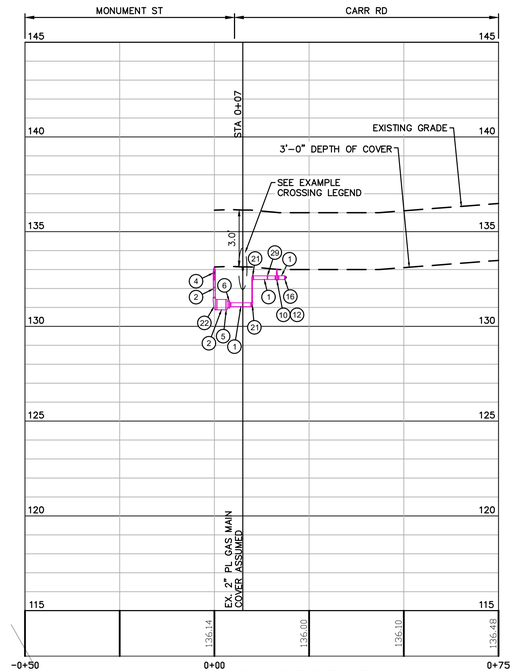
DRAWING NO.	SHEET NO.
CON–1251313–10	C–007



PLAN VIEW 2

20 10 0 20

SCALE 1"=20'



AUXILIARY PROFILE

SCALE 1"=20' HORIZONTAL

SCALE 1"=4' VERTICAL

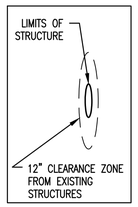
20 10 0 20

SCALE 1"=20'

4 2 0 4

SCALE 1"=4'

EXAMPLE
CROSSING LEGEND



SHEET NOTES:

1) REFER TO "TOWN UTILITY NOTES" ON C-001 FOR CLEARANCE REQUIREMENTS FROM EXISTING UTILITIES.
2) ALL WATER MAIN AND SERVICE CROSSINGS SHALL BE HAND DUG AND INSPECTED BY CPW WATER AND SEWER DIVISION. INSPECTIONS SHALL OCCUR POST-INSTALLATION AND PRIOR TO TRENCH BACKFILL. A 48-HOUR NOTIFICATION IS REQUIRED.
3) SERVICE INFORMATION ON MONUMENT ST WAS COMPILED FROM AVAILABLE SERVICE CARDS AND SPIPE REPORTS. RECORDS AT TIMES CONFLICTED OR WERE INCONSISTENT. SERVICE INFORMATION SHOULD BE FIELD VERIFIED. REFERENCE SCENIC BYLAW NOTE ON C-001 FOR RESTRICTIONS ON SERVICE WORK.
4) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
5) REFER TO SHEET G-003 FOR DRAWING LEGEND.
6) REFER TO SHEET G-003 FOR SINGLE FEED SYSTEM NOTE.
7) THE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT IS REQUIRED/RECOMMENDED DUE TO THE LENGTH AND PRESSURE OF THE EXISTING MAIN. CONTACT DAVE LESSARD OR JIM MCNEILL ONE MONTH PRIOR TO THE START OF CONSTRUCTION TO COORDINATE USE OF A DRAWDOWN COMPRESSOR DURING MAIN ABANDONMENT.
8) PROJECT IS OVER 2500 FEET IN LENGTH. PLEASE CONTACT I&R PRIOR TO EXECUTING THE PROJECT FOR SUPPLEMENTAL ODORIZATION. INR06002

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COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/23/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

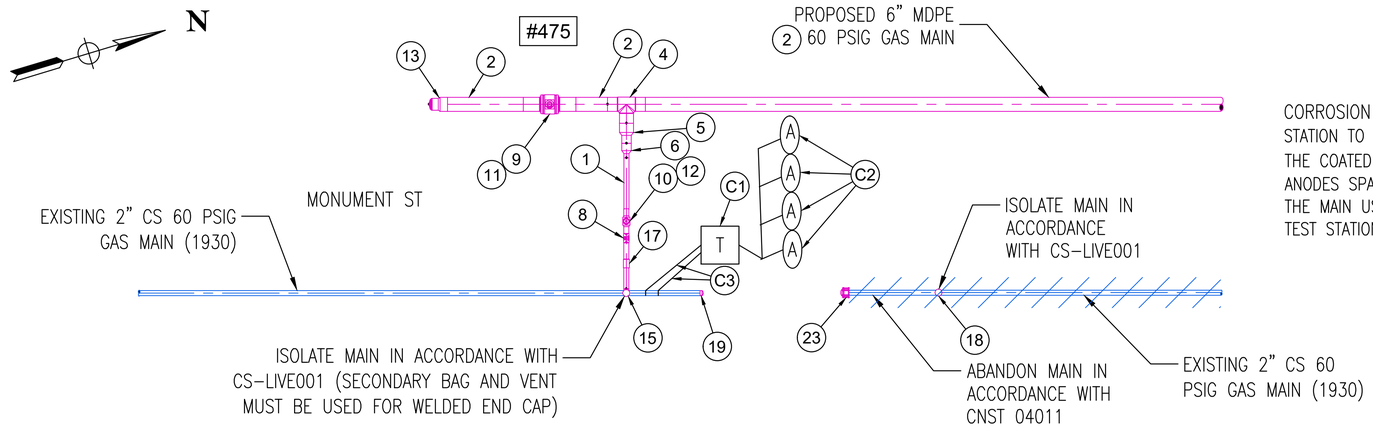
IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 7 OF 7

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-11	C-008

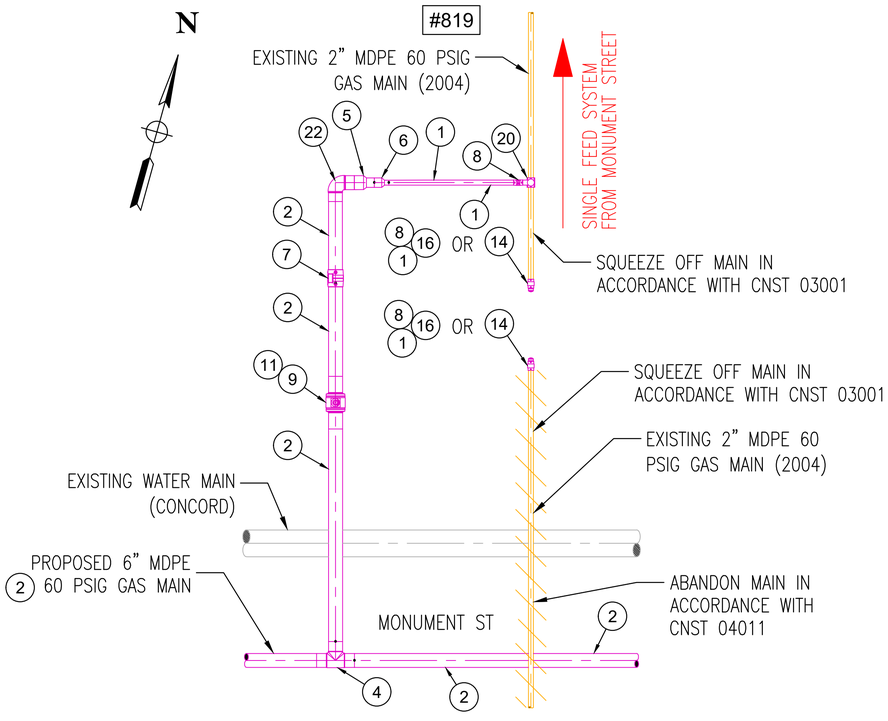


CORROSION REQUIREMENTS: INSTALL A 2-WIRE TEST STATION TO THE EXISTING 2 INCH, 60 PSIG COATED STEEL AT THE COATED STEEL/PLASTIC INTERFACE. INCLUDE 4-17# ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. DCON0064

PROPOSED LOCATION MC-A AT MONUMENT ST @ LIBERTY ST

3' 1.5' 0 3'

SCALE: 1"=3'



PROPOSED LOCATION MC-B AT MONUMENT ST @ #819

3' 1.5' 0 3'

SCALE: 1"=3'

SINGLE FEED SYSTEM:
WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SHEET NOTES:
1) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS, AND DRAWING LEGEND.

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ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
11/25/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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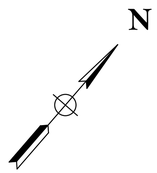
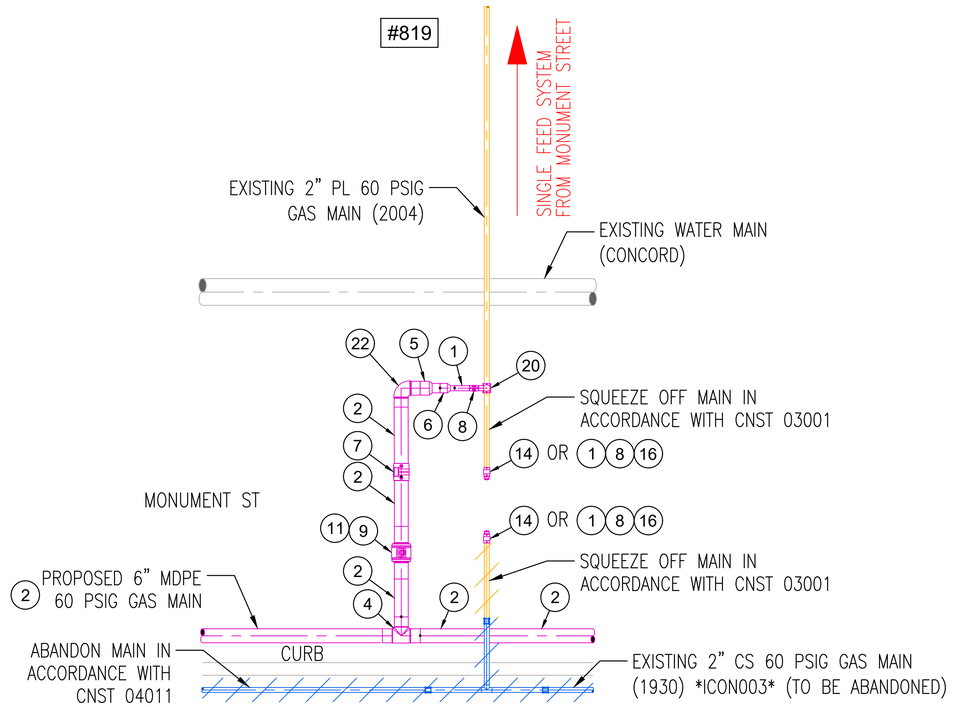
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED LOCATION DETAIL SHEET 1 OF 3

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-12	C-101

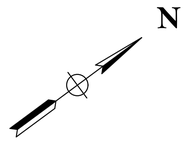


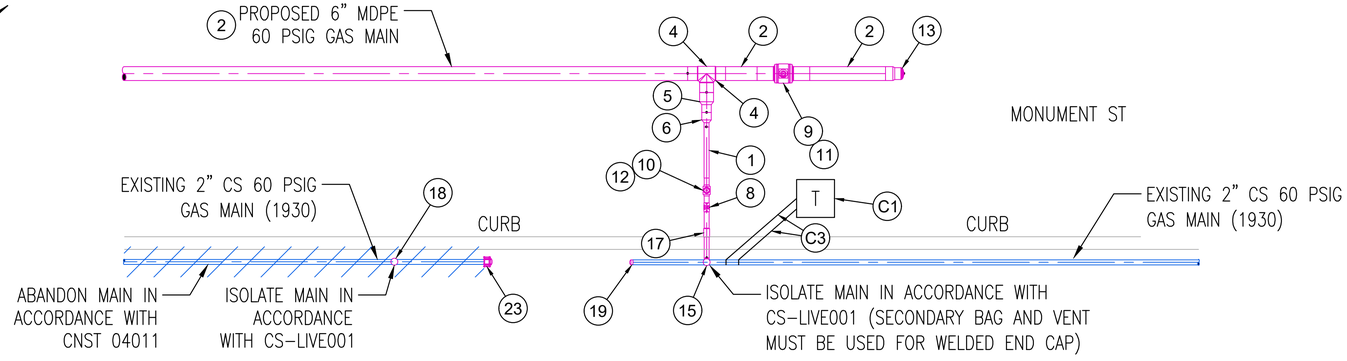


PROPOSED LOCATION MC-C AT MONUMENT ST @ #819

3' 1.5' 0 3'

SCALE: 1"=3'





#806

PROPOSED LOCATION MC-D AT MONUMENT ST @ #806

3' 1.5' 0 3'

SCALE: 1"=3'

CORROSION REQUIREMENTS: INSTALL A 2-WIRE TEST STATION TO THE EXISTING 2 INCH, 60 PSIG COATED STEEL AT THE COATED STEEL/PLASTIC INTERFACE. NO ANODES REQUIRED. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. ICON0003

SINGLE FEED SYSTEM:
WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SHEET NOTES:
1) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS, AND DRAWING LEGEND.

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ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/25/24
Andrew J. Cavallo
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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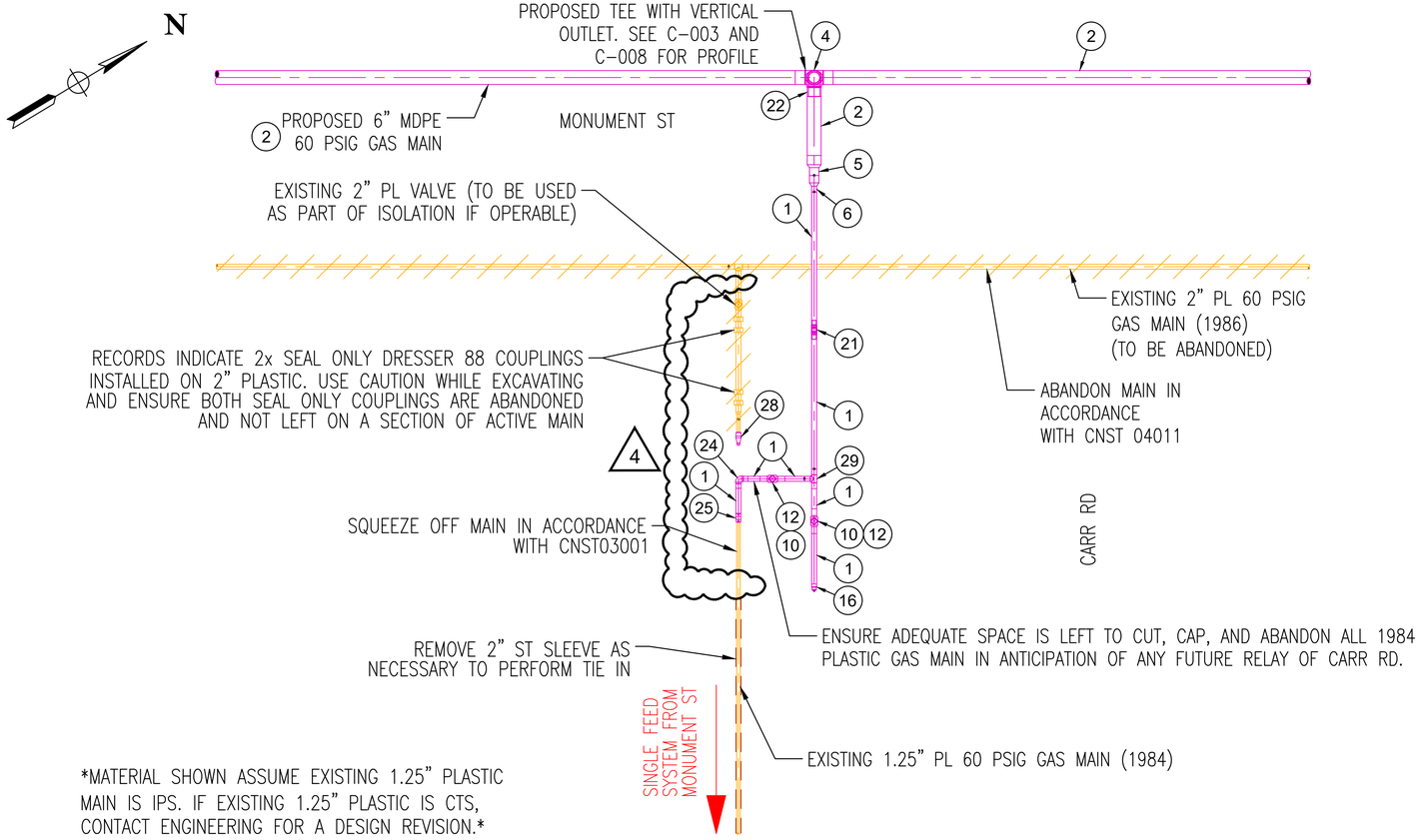
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED LOCATION DETAIL SHEET 2 OF 3

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-13	C-102



MATERIAL SHOWN ASSUME EXISTING 1.25" PLASTIC MAIN IS IPS. IF EXISTING 1.25" PLASTIC IS CTS, CONTACT ENGINEERING FOR A DESIGN REVISION.

PROPOSED LOCATION MC-E AT MONUMENT ST @ CARR RD

3' 1.5' 0 3'

SCALE: 1"=3'

SHEET NOTES:

1) RECORDS INDICATED EXISTING MAIN MAY BE INSIDE A SLEEVE AT THIS LOCATION. IF THIS IS THE CASE, THE EXISTING SLEEVE MUST BE REMOVED TO EXPOSE THE EXISTING 1.25"/2" PL 60 PSIG GAS MAIN PRIOR TO TIE-IN AND CUT AND CAP.

SINGLE FEED SYSTEM:
WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SHEET NOTES:

1) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS, AND DRAWING LEGEND.

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ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/23/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
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3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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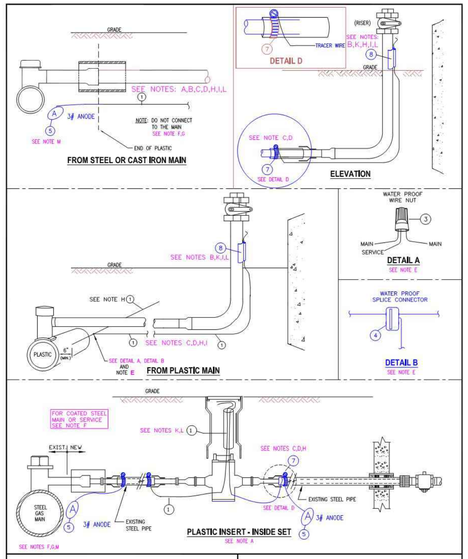
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

PROPOSED LOCATION DETAIL SHEET 3 OF 3

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-14	C-103



nationalgrid LI–MA–RI–UNY

TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES

REVISIONS: UPDATED ITEM ID'S REVISED NOTES	DATE: 10/31/2004	EFFECTIVE DATE: 06/25/2020
	DESIGN: GUGLIOTTA / MCLOUGHLIN	STD. DWG. NO. CNST-6061
	DRAWN: GUGLIOTTA / DIMAIO	

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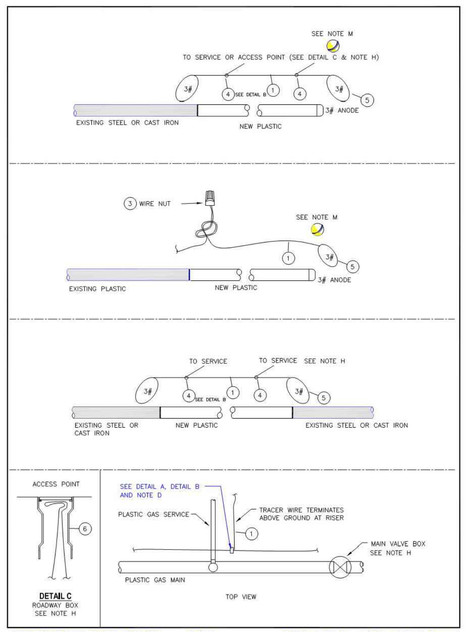

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		LI/NYC/ MASS	UNY/RI
8	TRACER WIRE SNAP, 2" (represents steel size)	9386134	
8	TRACER WIRE SNAP, 1 ½" (represents steel size)	9386156	9386156
8	TRACER WIRE SNAP, 1" (represents steel size)	9386150	9386150
8	TRACER WIRE SNAP, ¾" (represents steel size)	9385568	9385568
7	CLAMP, STAINLESS	9331708	9307873
6	VALVE BOX, ROADWAY	9339890	9312344 UNY 9311208 RI
5	ANODE, 3 LB MAGNESIUM	9315645	9315645
4	WIRE SPLICE CONNECTOR, WATERPROOF	9308036	9308036
3	WIRE NUT, PLASTIC, WATERPROOF	9331644	9314631
2	WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG	9314187	9314187
1	TRACER WIRE, DIRECT BURY, COPPER, 12 AWG	9315005	9315005
NO.	ITEM	SAP ITEM ID	
	BILL OF MATERIAL		

A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", Item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut out sections of the steel pipe to be inserted with plastic, shall be connected using a section of tracer wire to maintain continuity. If the existing service is coated steel , see Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [CQR04003] or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See Installation of Test Stations for Cathodic Protection [030026-CS].

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with Installing Wire Connections [CQR04004].

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [CQR04003] or contact corrosion department for more guidance.

G. Cast Iron or Bare steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a 3# anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA- Above or alongside, UNY- alongside, RI-Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the riser.

J. For horizontal directional drill installations, use stainless wire, item #2.

K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a 3# anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

Regional Notes

NYC ONLY: refer to Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services [CNST6060-NYC] for installation of electronic marker ball in place of tracer wire.

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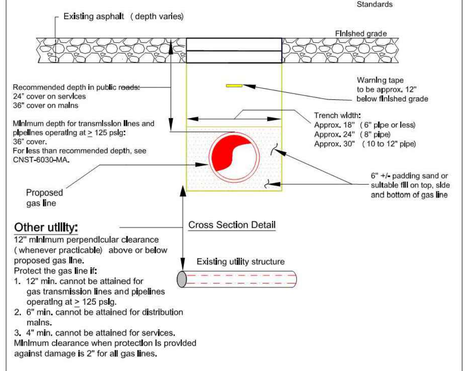
Typical Utility Crossing and Trench Guidelines



Other utility:
12" minimum perpendicular clearance (whenever practicable) above or below proposed gas line.
Protect the gas line if:
1. 12" min. cannot be attained for gas transmission lines and pipelines operating at > 125 psig.
2. 6" min. cannot be attained for distribution mains.
3. 4" min. cannot be attained for services.

Minimum clearance when protection is provided against damage is 2" for all gas lines.

For Backfill and Restoration details, refer to CNST01003 - Backfill and Restoration

nationalgrid MASS.

TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES

Key Changes: REV 0 NEW STANDARD FOR MASS.	DATE: 09/15/2014	EFFECTIVE DATE: 04/15/2019
	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO. CS-CNST002-MA
	DRAWN: N. COSTANZO	

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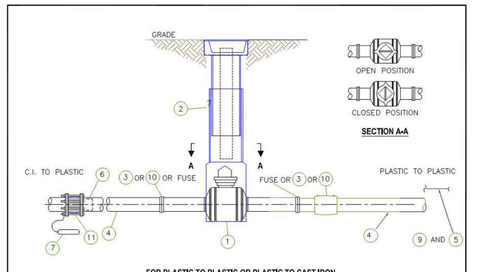
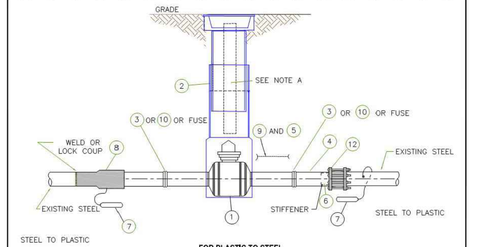


FOR PLASTIC TO PLASTIC OR PLASTIC TO CAST IRON (RECOMMENDED JOINING METHOD)



FOR PLASTIC TO STEEL (RECOMMENDED JOINING METHOD)

nationalgrid ALL REGIONS

2"-12" PE VALVE TYPICAL INSTALLATION

REVISIONS: UPDATED ITEM ID'S	DATE: 07/01/2003	EFFECTIVE DATE: 06/09/2020
	DESIGN: AJG / MAM	STD. DWG. NO. VALV-6020
	DRAWN: P. DIMAIO	

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NOTES:
A. IN DNY LI REGION, INSTALL A LENGTH OF 2" DIAMETER PE OR SMALLER TUBING IN THE VALVE BOX TO IDENTIFY THE VALVE AS PLASTIC.
B. INSTALL TRACER WIRE OR BALL MARKERS AS REQUIRED IN YOUR REGION FOR PE INSTALLATIONS.
C. NOT USED ON THE DNY LI 99 & 124 PSI PE SYSTEM.
D. REFER TO REGIONAL STANDARDS FOR MATERIAL IDS NOT GIVEN BELOW.

		SAP ID	SAP ID	SAP ID
1	VALVE, PE (PORT CONFIGURATION AS NOTED)	**UNY AND RI** **LP TO 100 PSIG HD** 9311203 12" DR 11 FULL PORT W/ GEAR OPERATOR **RI ONLY** 9307909 12" DR 13.5 FULL PORT W/ GEAR OPER **UNY ONLY** 9311173 8" DR 11 FULL PORT **RI ONLY** 9315189 8" DR 13.5 FULL PORT **UNY ONLY** 9312116 6" DR 11 FULL PORT 9312058 4" DR 11 FULL PORT **RI ONLY** 9308561 3" DR 11 FULL PORT 9312060 2" DR 11 FULL PORT 9311146 2" DR 11 FULL PORT WITH PERMASERT ENDS	**LI ONLY** **99 AND 124 PSIG HD** 9341706 8" RED PORT DR 9 9341705 6" RED PORT DR 9 9341700 4" RED PORT DR 9 9341699 2" FULL PORT DR 9	**LI, NYC AND NE** **LP TO 60 PSIG MEDIUM DENSITY** 9341704 12" FULL PORT DR 13.5 9386094 8" FULL PORT DR 13.5 9323032 6" FULL PORT DR 11.5 9341709 4" FULL PORT DR 11.5 9323299 3" FULL PORT DR 11 9341784 2" FULL PORT DR 11 9341408 8" RED PORT DR 13.5 9341757 6" RED PORT DR 11.5 9341693 4" RED PORT DR 11.5 9341756 3" RED PORT DR 11 **100 PSIG HIGH DENSITY (NE ONLY)** 9323610 4" RED PORT DR 11 9323611 6" RED PORT DR 11 9323612 8" RED PORT DR 11 9312060 2" FULL PORT DR 11 9312058 4" FULL PORT DR 11 9312116 6" FULL PORT DR 11
2	ROADWAY VALVE BOX WITH COVER	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN SEE DWG FITS 6360 (FOR 12" VALVE) 9311208 (FOR 2" THRU 8" VALVE)	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN 9341706 8" RED PORT 9341705 6" RED PORT 9341700 4" RED PORT 9341699 2" FULL PORT	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN 9382626 FOR 12" FULL PORT 9382626 FOR 8" FULL PORT 9339893 FOR 6" FULL PORT 9339892 FOR 4" FULL PORT 9339890 FOR 3" FULL PORT 9339890 FOR 2" FULL PORT 9339893 FOR 8" RED PORT 9339892 FOR 6" RED PORT 9339891 FOR 4" RED PORT 9339891 FOR 3" RED PORT
3	COUPLING ELECTROFUSE			
4	PLASTIC PIPE			
5	BURIAL TAPE			
6	INSERT STIFFENER (SEE NOTE C)			
7	ANODE, 17 LB			
8	TRANSITION FITTING STL TO PE			
9	TRACER WIRE OR (BALL MARKER IF USED IN REGION)			
10	COUPLING 2" PERFECTION PERMASERT (SEE NOTE C)			
11	COUPLING, PE TO CI, LOCKING INSULATING, MECHANICAL			
12	COUPLING, PE TO STL, LOCKING, NON-INSULATING MECHANICAL (SEE NOTE C)			
No.	ITEM			

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NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

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COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/25/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
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2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

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170 DATA DRIVE
WALTHAM, MA 02451

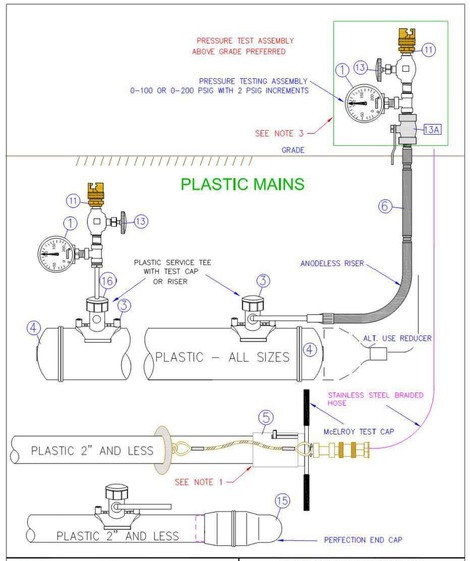
IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

MISCELLANEOUS DETAIL 1 OF 4

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-15	C-201



nationalgrid — ALL REGIONS

PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS

Key Changes: ADDED NOTE TO PAGE 3 REGARDING DEVIATION TO DESIGN.

DATE: 7/15/2013 | EFFECTIVE DATE: 12/15/2017
DESIGN: PAUL GUGLIOTTA | STD. DWG. NO. **CS-MAIN004**
DRAWN: P.G.

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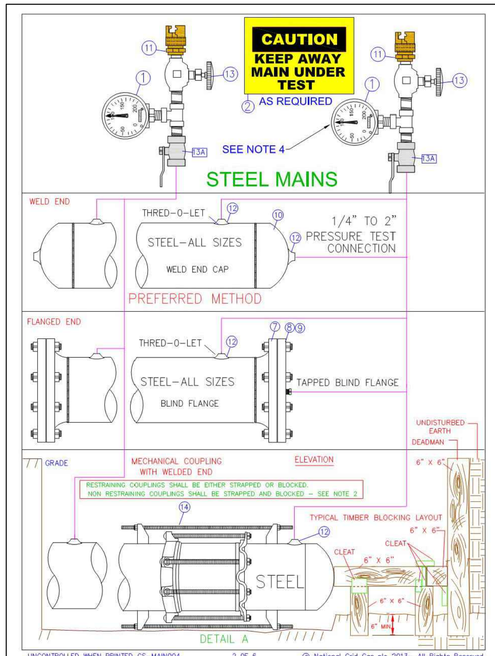

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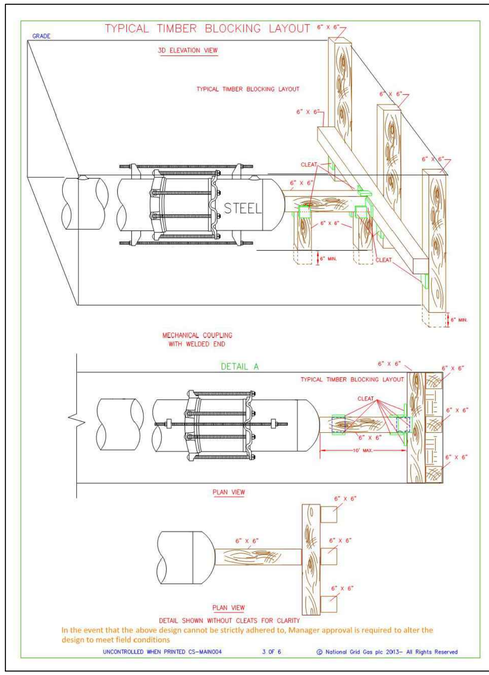

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NOTES:

1. INSTALL PER MCELROY MANUFACTURER'S INSTRUCTIONS.
2. WHEN USING MECHANICAL COUPLINGS (AS SHOWN IN DETAIL A), NON-RESTRAINING COUPLING SHALL BE STRAPPED AND THE ENDS SHALL BE BLOCKED PER APPROVED STANDARD DRAWINGS. RESTRAINING COUPLINGS NEED TO BE EITHER STRAPPED OR BLOCKED. **WHEN USING RESTRAINING COUPLINGS, STRAPPING NUTS SHOULD BE HAND TIGHT.**

2A. ON EXISTING STEEL SYSTEMS: REFER TO THE TABLE BELOW FOR THE MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL. IF A BURIED, UNSTRAPPED COUPLING EXISTS AT A DISTANCE LESS THAN THE MINIMUM SAFE EMBEDMENT DISTANCE FROM THE WALL, THEN BLOCKING IS REQUIRED FOR THE PRESSURE TEST. IF AN ALL WELDED SYSTEM CAN NOT BE CONFIRMED, THE WELDED OR FLANGED ENDS SHALL BE BLOCKED

PIPE SIZE (INCHES)	MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL (FEET)
2	5
3	8
4	12
6	24
8	41
12	70

REFER TO CONSTRUCTION STANDARD FITS-6025 AND FITS-6015 FOR LIST OF COUPLINGS.

3. IT IS RECOMMENDED THAT THE GAUGE ASSEMBLY BE ABOVE GRADE TO PREVENT PERSONNEL FROM ENTERING THE TRENCH WHILE THE PRESSURE TEST IS UNDERWAY.
4. ONE PRESSURE TEST GAUGE AT EACH PIPE END IS RECOMMENDED TO VERIFY THE PRESSURE. ALL GAUGES SHALL BE 0-100 OR 0-200 PSIG RANGE (2 PSIG INCREMENTS REQ'D IN NY STATE ONLY).
5. REFER TO CNST4003 ***"PRESSURE TESTING OF MAINS OPERATING BELOW 125 PSIG"*** FOR TESTING AND DESIGN REQUIREMENTS.

ITEM	DESCRIPTION	SAP ITEM ID LI / MA / NYC	SAP ITEMS RI AND UNY
1	**PRESSURE GAUGE 0-100 OR 0-200 PSIG – 2 PSI INCREMENTS**		
	0-200 PSIG STAINLESS STEEL ¼" NPT 3-1/2" DIAL	9354865	TOOL ITEM
	0-200 PSIG STAINLESS STEEL ¼" NPT 2-1/2" DIAL	9358390	TOOL ITEM
	0-100 PSIG STAINLESS STEEL ¼" NPT	NON STOCK	TOOL ITEM
2	**SIGN – WARNING PRESSURE TEST (AS REQUIRED IN FIELD)**	9332240	NON STOCK
3	**TEE SERVICE – ELECTROFUSION YELLOW MD 1/2" CTS BUTT FUSE OUTLET**		
	2" MAIN X ½" BUTT FUSE OUTLET	9342517 2X1/2	NON STOCK
	4" MAIN X ½" BUTT FUSE OUTLET	9342518 4X1/2	NON STOCK
	6" MAIN X ½" BUTT FUSE OUTLET	9342519 6X1/2	NON STOCK
	8" MAIN X ½" BUTT FUSE OUTLET	9342371 8X1/2	NON STOCK
	TEE SERVICE – ELECTROFUSION YELLOW MD 1" CTS BUTT FUSE OUTLET	-	
	1-1/4" MAIN X 1" OUTLET LI	9342332 1-1/4 X 1	NON STOCK
	2" MAIN X 1" OUTLET LI	9342519 2X1	NON STOCK
	4" MAIN X 1" OUTLET LI	9342521 4X1	NON STOCK
	6" MAIN X 1" OUTLET LI	9342328 6X1	NON STOCK
	8" MAIN X 1" OUTLET LI	9342372 8X1	NON STOCK
	TEE SERVICE – ELECTROFUSION BLACK HD 1" IPS BUTT FUSE OUTLET		
	2" MAIN X 1" IPS OUTLET	9322653 2X1	9322653 2X1
	3" MAIN X 1" IPS OUTLET	9322628 3X1	9322628 3X1 RI
	4" MAIN X 1" IPS OUTLET	9322620 4X1	9322620 4X1
	6" MAIN X 1" IPS OUTLET	9322626 6X1	9322626 6X1
	8" MAIN X 1" IPS OUTLET	9323497 8X1	9323497 8X1
	12" MAIN X 1" IPS OUTLET LI, NYC, MA	9351831 12X1	9351831 12X1
	TEE SERVICE – SADDLE FUSION HIGH DENSITY BLACK 1/2" CTS BUTT FUSE		
	2" MAIN X 1/2" OUTLET LI	9342405 2X1/2	NON STOCK
	4" MAIN X 1/2" OUTLET LI	9342406 4X1/2	NON STOCK
	6" MAIN X 1/2" OUTLET LI	9342407 6X1/2	NON STOCK
	8" MAIN X 1/2" OUTLET LI	9342408 8X1/2	NON STOCK
	TEE SERVICE – SADDLE FUSION HIGH DENSITY BLACK 1" CTS BUTT FUSE		
	2" MAIN X 1" OUTLET	9342409 2X1 SDR 9	9315907 2X1
	4" MAIN X 1" OUTLET	9342429 4X1 SDR 9	9315964 4X1
	6" MAIN X 1" OUTLET	9342430 6X1 SDR 9	9315963 6X1
	8" MAIN X 1" OUTLET	9342431 8X1 SDR 9	9315962 8X1
	12" MAIN X 1" OUTLET	NON STOCK	9314629 12X1
	TEE SERVICE MECHANICAL X PERFECTION OUTLET		
	2" MAIN X 1/2" OUTLET	NON STOCK	9308584 2X1/2
	4" MAIN X 1/2" OUTLET	NON STOCK	9308583 4X1/2
	6" MAIN X 1/2" OUTLET	NON STOCK	9308472 6X1/2
	8" MAIN X 1/2" OUTLET	NON STOCK	9308471 8X1/2
	2" MAIN X 1" OUTLET	9382122 2X1	9315492 2X1
	3" MAIN X 1" OUTLET	9382123 3X1	N/A
	4" MAIN X 1" OUTLET	9382119 4X1	9315490 4X1
	6" MAIN X 1" OUTLET	9382149 6X1	9308473 6X1
	8" MAIN X 1" OUTLET	9346192 8X1	9306178 8X1
	12" MAIN X 1" OUTLET	9387367 12X1	9387367 12X1

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Effective Date 12/15/2017 — CS-MAIN004

ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA/ NYC	PEOPLESOFT ITEM RI AND UNY
4	**CAP END PLASTIC MEDIUM DENSITY YELLOW BUTT FUSE**		
	2" SDR11	2" 9339540	NON STOCK
	3" SDR 11	3" 9339541	NON STOCK
	4" SDR 11	4" 9339534	NON STOCK
	6" SDR 11	6" 9339733	NON STOCK
	8" SDR 13.5	8" 9339559	NON STOCK
	12" SDR.11.5	12" 9339560	NON STOCK
	CAP END PLASTIC HIGH DENSITY BLACK BUTT FUSION		
	2" SDR 9	2" 9339538	NON STOCK
	4" SDR 9	4" 9339535	NON STOCK
	6" SDR 9	6" 9339536	NON STOCK
	8" SDR 9	8" 9339537	NON STOCK
		-	-
	2" SDR 11 MASS RI & UNY	2" 9323624	2" 9312686
	3" SDR 11 MASS RI & UNY	3" 9323625	3" 9310276
	4" SDR 11 MASS RI & UNY	4" 9323640	4" 9312685
	6" SDR 11 MASS RI & UNY	6" 9323641	6" 9312684
	8" SDR 11 MASS RI & UNY	8" 9323642	8" 9310272
	12" SDR 11 MASS, RI	12" 9308729	12" 9308729
		-	-
	8" SDR 13.5 UNY	NON STOCK	8" 9312683
	12" SDR 13.5 UNY	NON STOCK	12" 9314605
5	**McELROY TEST CAPS** (165 PSIG MAX)	NON STOCK	NON STOCK
	1-1/4" MODEL TP	TP-308	TP-308
	2" MODEL TP-310	TP-310	TP-310
6	**RISER**	-	-
	1" CTS MEDIUM DENSITY X ½" NPT OUTLET	9344366	NON STOCK
	1" CTS MEDIUM DENSITY X 1-1/4" IPS OUTLET	9340874	NON STOCK
	1" HIGH DENSITY X 1-1/4" OUTLET	9340853	NON STOCK
	1" CST SERVASET X 1" OUTLET	9322627	NON STOCK
	1" CTS HIGH DENSITY .090" WALL X 1" IPS STEEL OUTLET	NON STOCK	9319405
	½" CTS .090" WALL PERFECTION END X ½" NPT STEEL	NON STOCK	9310295
	1-1/4" CTS .090" WALL PERFECTION END X 1-1/4" NPT STEEL	NON STOCK	9306180
	OR TEST CAPS WITH STEEL OR PLASTIC PIPE TO TEST TREE	9381846 OR TOOL	TOOL ROOM
	TEST CAP FOR CENTRAL PLASTIC ELECTROFUSE TAPPING TEE	ROOM ITEM	ITEM
7	**FLANGE 150# WELD END FLAT FACE**		
	2"	9341058 2"	9314322
	3"	9341388 3"	9314431
	4"	9340588 4"	9314430
	6"	9341084 6"	9308659
	8"	9341015 8"	9308748
	12"	9340979 12"	9308660
	16"	9322363 MA 16"	NON STOCK
	20"	9322362 MA 20"	NON STOCK
8	**BLIND FLANGE CLASS 150# ASTM A-105**		
	2" FLAT FACE WITH ½" CENTER NPT TAP	9341434 2"	NON STOCK
	3" FLAT FACE WITH ½" CENTER NPT TAP	9341014 3"	NON STOCK
	4" FLAT FACE WITH ½" CENTER NPT TAP	9341435 4"	NON STOCK
	6" FLAT FACE WITH ½" CENTER NPT TAP	9340942 6"	NON STOCK
	2" FLAT FACE	9382074 2"	9308662
	3" FLAT FACE	9385763 3"	9307751
	4" FLAT FACE	9385775 4"	9306252
	6" FLAT FACE	9385747 6"	9306518
	8" FLAT FACE	9341083 8"	9307750
	12" FLAT FACE	9340587 12"	9308749
9	**GASKETS**	-	-
	2" FULL FACE 150#	9333167 2"	9315688
	3" FULL FACE 150#	9341158 3"	9312067
	4" FULL FACE 150#	9341159 4"	9312569
	6" FULL FACE 150#	9332599 6"	9312568
	8" FULL FACE 150#	9341168 8"	9315689
	12" RING TYPE 150#	9341165 12"	NON STOCK

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Effective Date 12/15/2017 — CS-MAIN004

ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA / NYC	PEOPLESOFT ITEM RI AND UNY
10	**END CAPS – STEEL WELD END STANDARD WALL –GRADE B**		
	2"	9339531 2"	9312095
	3"	9339528 3"	9308719
	4"	9339529 4"	9312096
	6"	9339532 6"	9312094
	8"	9339524 8"	9312093
	10"	9339686 10"	9315182
	12"	9339734 12"	9312092
	16"	9339533 16"	9314824
	20"	9339687 20"	9314823
11	**THOR FITTING**	-	-
	½" MALE NPT X HOSE CONNECTION	9353292	NON STOCK
	¾" FEMLAE X HOSE CONNECTION	9353311	NON STOCK
12	**THRED-O-LET**	-	-
	12" – 6" X ½" 3000# PER ASTM A-105 GRADE B	9341652 12-6X3/4	NON STOCK
	10" – 6" X 1" 3000# PER ASTM A-105 GRADE B	9341656 10-6X1	NON STOCK
	36" – 12" X 1" 3000# PER ASTM A-105 GRADE B	9342052 36-12X1	NON STOCK
	2" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307678 2X1
	10" – 6" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307695 10-6X1
	36"-14" X ½" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307677 36-14X3/4
13	**VALVE**		
13A	**VALVE (OPTIONAL – TO SHUT OFF TEST ASSEMBLY)**		
14	**LUG ASSEMBLY**		
	7/8" x 24" LONG (LI ONLY - SEE MAIN-6210)	9342211	NON STOCK
	7/8"X 44"LONG (LI ONLY - SEE MAIN-6210)	9342212	NON STOCK
	LUG GREEN 3"- 8"MAIN 7/8" DIAM. (NYC ONLY – SEE MAIN-6230 & MAIN-6230)	9357904	9357904
	LUG YELLOW 10"- 30" MAIN 1-1/16" DIAM. (NYC ONLY – SEE MAIN-6230& MAIN-6230)	9357905	9357904
	ROD ¾" X 12' LONG	9328152	9328251
	ROD 1" X 12' LONG	9328150	9328150
	LUG ASSEMBLY ¾"X 30" LONG (UNY ONLY)	NON STOCK	9315741
15	**COUPLING – END 2" PERFECTION**	9385024	9315348
16	**TEST CAP**	-	TOOL ROOM
	FOR SADDLE FUSION TEE – CENTRAL PLASTICS	9325109	ITEM
	FOR SADDLE FUSION TEE– JM EAGLE / POLY / UPONOR	9325017	
	FOR SADDLE FUSION TEE – PERFORMANCE PIPE TEES	9341368	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION CENTAL PLASTICS	9384268	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION– JM EAGLE / POLY/ UPONOR	9384174	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION PERFORMANCE PIPE TEES	9323715	
	FOR HVTT ELECTROFUSION TEE	9382494	
	FOR ELECTROFUSION TEE	9381846	
	FOR PERFECTION PMTT MECHANICAL TEE (CAP FITS ALL MAIN SIZE & OUTLET SIZES OF PMTTS)	9339561	

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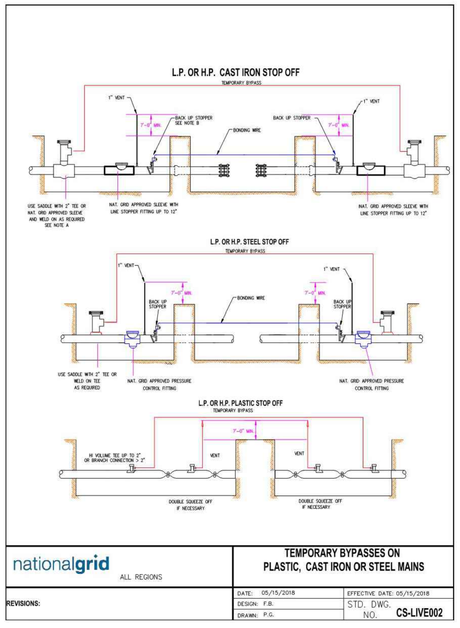

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TEMPORARY BYPASSES ON PLASTIC, CAST IRON OR STEEL MAINS

REVISIONS:

DATE: 05/15/2018 | EFFECTIVE DATE: 05/15/2018
DESIGN: F.B. | STD. DWG. NO. **CS-LIVE002**
DRAWN: P.G.

NOTES:

A. FOR BYPASSES ON THE LP SYSTEM ONLY SCREW TEES AND BAGHOLES MAY BE TAPPED DIRECTLY INTO THE MAIN.

B. BACK UP STOPPERS WILL BE REQUIRED IF INSUFFICIENT STOP OFF CAN BE ACHIEVED OR IF WELDING BETWEEN THE STOPPERS WILL BE REQUIRED.

C. STOP OFF CAN BE PERFORMED USING MUELLER, T.D. WILLIAMSON, KLIESS, BAGS, OR OTHER APPROVED STOP OFF SYSTEMS.

SHT. 2 OF 2 **CS-LIVE002**

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

BL Companies — Architecture, Engineering, Environmental, Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
9/25/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

MISCELLANEOUS DETAIL 2 OF 4

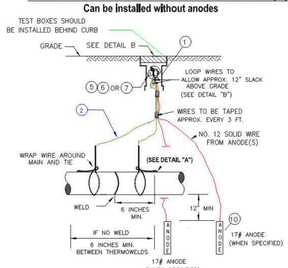
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

PAGE 16 OF 18

DRAWING NO.	SHEET NO.
CON-1251313-16	C-202

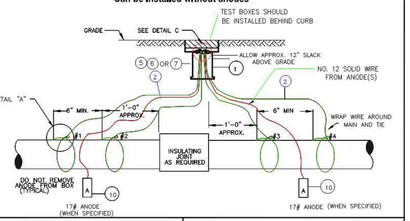
TWO WIRE TEST STATION WITH ANODE(S)

Can be installed without anodes



FOUR WIRE TEST STATION WITH ANODES

Can be Installed without anodes



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INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION

REVISIONS: REVISED USING SAP ITEM ID'S.	DATE: 07/15/2010	EFFECTIVE DATE: 09/15/2013
	DESIGN: PG	STD. DWG. NO. 030026-CS
	APPROVED: PS	

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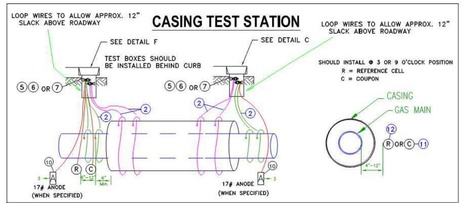
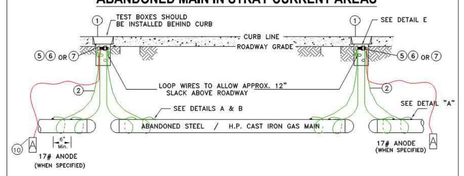
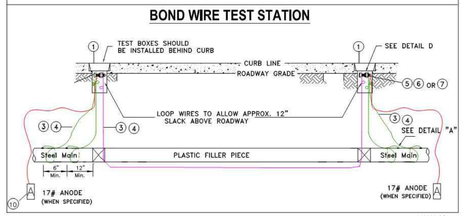
CASING TEST STATION



ABANDONED MAIN IN STRAY CURRENT AREAS

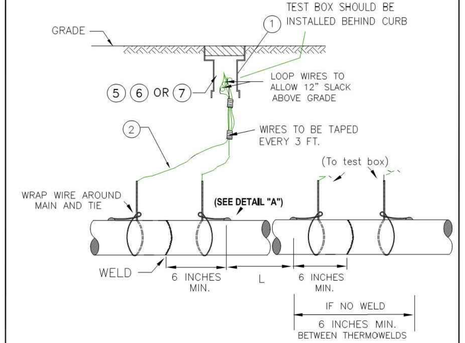


BOND WIRE TEST STATION



SHT. 2 OF 5 030026-CS

CURRENT DROP MEASURING TEST STATION



CURRENT DROP MEASURING TEST STATION SPACING

PIPE DIAMETER	"L"
3/4" – 4"	75'
6" – 10"	100'
12" AND OVER	125'

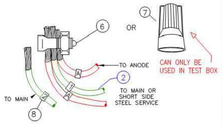
SHT. 3 OF 5 030026-CS

ATTACH WIRE IN ACCORDANCE WITH APPROVED THERMOWELD PROCEDURE

DETAIL "A"

Two wire test station

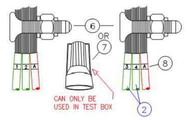
Shown with 2 anodes



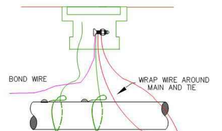
DETAIL "B"

Four wire test station

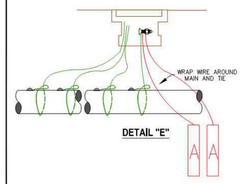
CONNECT ALL WIRES AS NEEDED



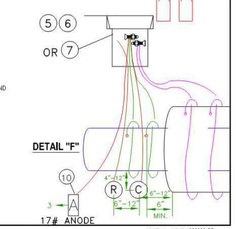
DETAIL "C" (typ)



DETAIL "D"



DETAIL "E"



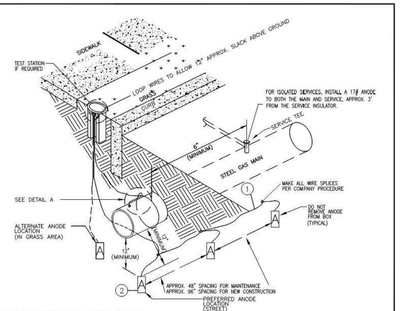
DETAIL "F"

SHT. 4 OF 5 030026-CS

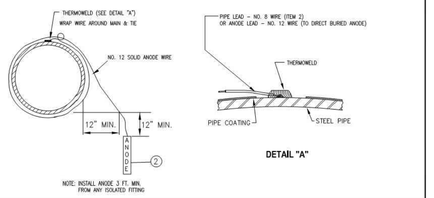
MATERIAL LIST

	Description	Down State SAP Item I.D	Upstate SAP Item I.D	New England SAP Item I.D	Rhode Island SAP Item I.D	MATERIAL NOTES
1	TEST BOX WITH COVER	9339892	9312291 UPSTATE BOXES COME IN ONE PIECE	9339892	(Sm - 445) 9311209 or (Lg - 556) in Prov. 9311208	NON LOCKING COVER. DISCARD FOOT PIECE.
	TEST BOX 9" SQUARE HEAVY DUTY	9339391		9339391		WEIGHS 95 LBS, STREET USE, WITHOUT COVER
	COVER FOR 9" SQUARE BOX	9339797		9339797		NON-LOCKING COVER
2	WIRE, NO. 8, 7 STRAND	9307539	9307539	9307539	9307539	TEST WIRE ONLY, NOT FOR GROUND BEDS, UPSTATE AND RI WIRE HAS 19 STRANDS.
3	WIRE, NO. 6, 7 STRAND	9311795	9311795	9311795	9311795	BOND WIRE ONLY, NOT FOR GROUND BEDS
4	WIRE 1/0 – 19 STRAND 600 V –1/C.	9334171	NON STOCK	9334171	NON STOCK	USE IN STRAY CURRENT AREAS
5	TAPE, PVC - ¾" WIDE	9334056	9316070	9334056	9316070	NOT FOR PIPE COATING.
6	CONNECTOR, SPLIT BOLT, TYPE 6	9331578	9316630	9331578	NON STOCK	USE WITH NO. 6 CABLE
	CONNECTOR, SPLIT BOLT, TYPE 1/01	9331612		9331612		USE WITH 1/0 CABLE
7	CONNECTOR, TWIST-ON WIRE NUT	9330683	9314631	9330683	9314631	
8	TAG, ADHESIVE NUMBER 1 NUMBER 2 NUMBER 3 NUMBER 4 LETTER A	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	LABEL WITH #1 (N) OR (E), CONSECUTIVELY TO (S) OR (W) SEE DETAILS "B" AND "C" USE TO LABEL ANODES
9	GROUNDING CELL	NON STOCK	9315642	NON STOCK	NON STOCK	AS SPECIFIED BY CORROSION ENGINEERING
10	ANODE, MAGNESIUM 17LBS	9311183	9311183	9311183	9311183	SATURATE WITH WATER BEFORE BACKFILL. ANODE MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
11	COUPON	9386100	By Corrosion	9386100	By Corrosion	MC MILLER OR EQUAL
12	REFERENCE CELL	9385758	By Corrosion	9385758	By Corrosion	BORIN MFGR INC OR EQUAL

UNCONTROLLED WHEN PRINTED — Effective Date 06/08/2020 — 5 OF 5 — © National Grid Gas plc 2020– All Rights Reserved 030026-CS



DIRECT BURIED ANODE INSTALLATION



DETAIL "A"

nationalgrid — ALL REGIONS

INSTALLATION OF MAGNESIUM ANODES

REVISIONS: UPDATED NEW SP ITEM ID'S	DATE: 07/15/2010	EFFECTIVE DATE: 06/08/2020
	DESIGN: PG	STD. DWG. NO. 030024-CS
	APPROVAL: PS	

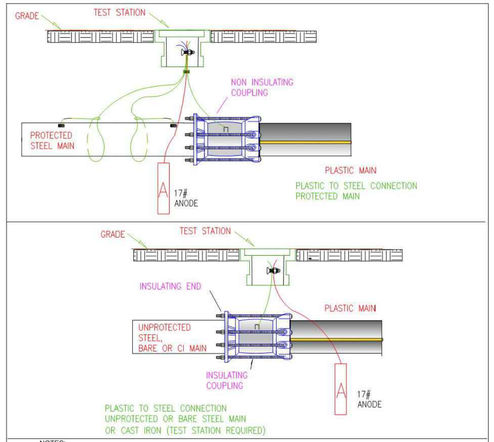
SHEET 1 OF 2

MATERIAL LIST

	Description	Down State NY Item I.D	Upstate NY Item I.D	New England Item I.D	Rhode Island Item I.D	MATERIAL NOTES
1	CABLE NO. 8 – 1/C	9334425	9311214	9334425	9311214	Upstate and RI cable has 19 strands
2	ANODE, MAGNESIUM 17 LB	9311183	9311183	9311183	9311183	
3	ANODE, MAGNESIUM 3 LB	9315645	9315645	9315645	9315645	Use on Tracer wire and all isolated fittings.
4	ANODE, MAGNESIUM SPIKE 3 LB	9308624	9308624	9308624	9308624	Use on Service Risers ONLY
*	CLAMP, GROUNDING 1/2IN - 1IN DIA.	9386544	9386544	9386544	9386544	Grounding clamp for attaching spike anode lead wire to service riser
*	CLAMP, GROUNDING 1-1/4IN - 2IN DIA.	9386559	9386559	9386559	9386559	Grounding clamp for attaching spike anode lead wire to service riser

* Spike Anode Ground Clamp

SHT. 2 OF 2 030024-CS



NOTES:
1. FOR COUPLING ITEM ID'S SEE FITS-6025
2. INSTALL ANODE PER 030024-CS AND TEST STATION PER 030026-CS
3. COAT COUPLING PER FACILITY COATING GUIDE (030031-CS)
4. IF A METALLIC COUPLING (NON INSULATING OR INSULATING) IS USED TO JOIN PLASTIC TO PLASTIC IN AN EMERGENCY, AN ANODE AND TEST STATION SHALL BE INSTALLED.

nationalgrid — ALL REGIONS

ELECTRICAL ISOLATION REQUIREMENTS OF A METALLIC COUPLING INSTALLED TO TIE IN A PLASTIC PIPE TO A METALLIC PIPE

REVISIONS: NEW DRAWING	DATE: 05/05/2020	EFFECTIVE DATE: 05/05/2020
	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO. 030016-CS
	DRAWN: PAUL GUGLIOTTA	

SHEET 1 OF 1

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

BL Companies — Architecture, Engineering, Environmental, Land Surveying

COMMONWEALTH OF MASSACHUSETTS — ANDREW JOSEPH CAVALLO — MECHANICAL — No. 54294 — REGISTERED PROFESSIONAL ENGINEER — 09/23/24

Andrew J. Cavallo — SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
4	ISSUED FOR CONSTRUCTION	09/23/2024	KB	AC	AC
3	ISSUED FOR CONSTRUCTION	09/11/2024	TA	AC	AC
2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

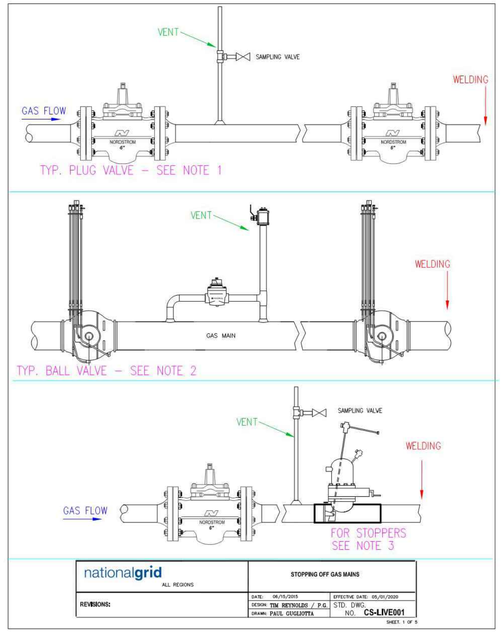
IFC

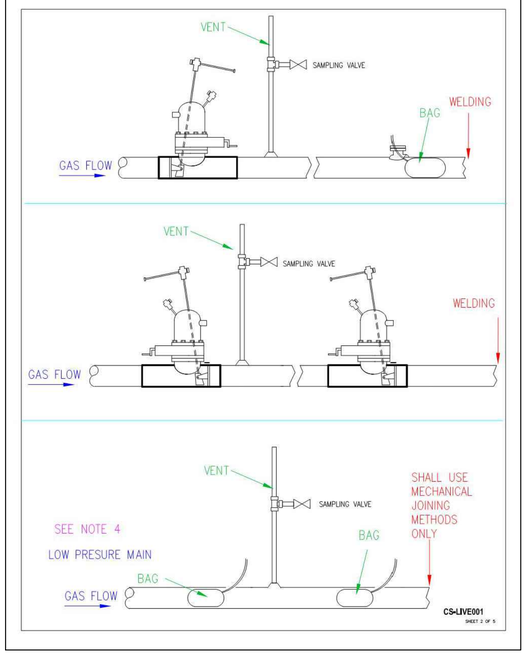
PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

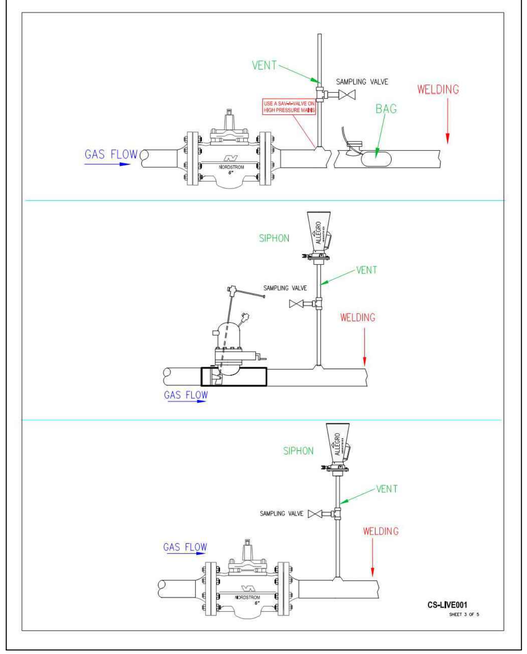
MISCELLANEOUS DETAIL 3 OF 4

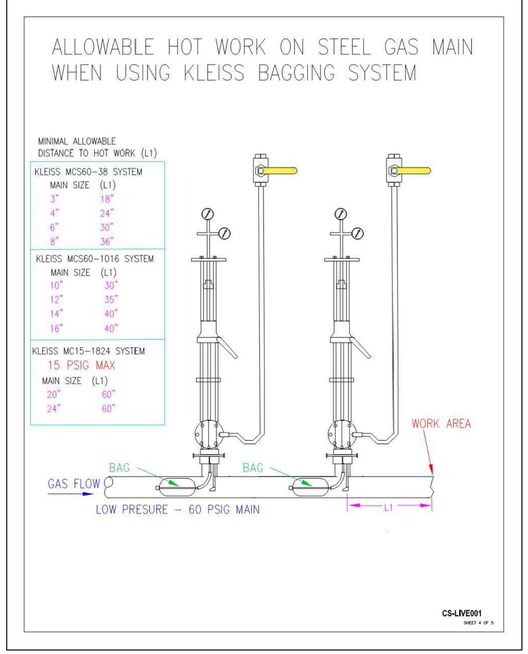
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-17	C-203









NOTES:

1. PLUG VALVES SHOULD BE GREASED PRIOR TO SHUTTING OFF TO INSURE TIGHT SHUTOFF.
2. USE THE BALL VALVE'S BLOCK AND BLEED AND / OR PURGE ASSEMBLY IF AVAILABLE TO VENT GAS BETWEEN THE TWO CLOSED VALVES.
3. REFER TO MANUFACTURER'S LITERATURE FOR PRESSURE LIMITS OF STOPPERS AND DRILLING EQUIPMENT.
4. WELDING SHALL NOT BE PERFORMED AGAINST A BAG WHERE THE BAG IS USED AS THE PRIMARY MEANS OF STOPPING THE GAS FLOW. SEE STOP-OFF OPERATIONS ON LOW PRESSURE MAINS [CNST-03002].

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

BL Companies
Architecture
Engineering
Environmental
Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
09/23/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
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2	ISSUED FOR CONSTRUCTION	08/26/2024	TA	TA	AC
1	ISSUED FOR CONSTRUCTION	06/21/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	06/06/2022	SC	LA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" AND 6" MDPE (60 PSIG)
MONUMENT ST
CONCORD, MA

MISCELLANEOUS DETAIL 4 OF 4

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	09/11/2024	DISTRIBUTION	1251313

DRAWING NO.	SHEET NO.
CON-1251313-18	C-204

TOWN OF CONCORD
SELECT BOARD
PUBLIC HEARING NOTICE

Notice is hereby given that a Public Hearing will be held at the Town House in the Select Board Meeting Room, 22 Monument Square, Concord, MA on Tuesday, May 27, 2025 at 6:00 PM, upon the petition of National Grid to request your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the Town of Concord and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

Replace 3,450 feet of 2-inch Coated Steel (1930) and 2-inch Plastic (1977/1986) main on Monument St with 3,450 feet of 6-inch Plastic from Liberty St to #806.

The petition was filed with the Select Board on March 21, 2025. **Please review the Select Board meeting agenda at www.concordma.gov to confirm the exact timing of the Hearing.** Questions on this matter should be directed to **Mary Mulroney, Permit Representative for National Grid**, at Mary.Mulroney@nationalgrid.com.

By Order of the Select Board

Mark Howell, Clerk

CONCORD PUBLIC WORKS
ENGINEERING DIVISION

133 Keyes Road
Concord, MA 01742

Tel: 978 - 318 - 3210
Fax: 978 - 318 - 3245

DATE: 5/16/2025

MEMORANDUM

TO: **Shannon McAndrew, Management Specialist**
VIA: **Kerry Lafleur, Town Manager**
VIA: **Alan Cathcart, Director of Public Works**
FROM: **Stephen Dookran, PE, Town Engineer**
PREPARED BY: Justin Richardson, PE, Assistant Town Engineer
SUBJECT: **Petition by National Grid to relay 425 feet of 2-inch (1930) coated steel in Pond Street with 2-inch plastic main, from the 4-inch (1930) coated steel main in Laws Brook Road to the end of the main at #46 Pond Street and install approximately 25 feet of 2-inch plastic main to the existing 2-inch plastic main between Pond Street and Sunnyside Lane.**

This memorandum is to provide comments to the Select Board on the petition for a Grant of Location (GOL) on Pond Street filed by National Grid. Concord Public Works (CPW) Engineering Division has reviewed the attached Grant of Location petition with a date of March 21, 2025. The current proposed plans, having a most recent revision date of July 3, 2024, from National Grid's designer, BL Companies, are for the above referenced project in the Pond Street public right-of-way (ROW). National Grid requests to relay 425 feet of 2-inch (1930) coated steel in Pond Street with 2-inch plastic main, from the 4-inch (1930) coated steel main in Laws Brook Road to the end of the main at #46 Pond Street and install approximately 25-feet of 2-inch plastic main to the existing 2-inch plastic main between Pond Street and Sunnyside Lane. There is no main size increase as a result of this project and National Grid has stated that this is part of their BSMNRPL program. As a result of the Engineering Division's review, CPW asks that if the Select Board approves the petition, the following understandings, conditions and recommendations are made part of the approval:

1. **Grant of Location Expiration.** This GOL will expire three years after the petition is approved by the Select Board.

2. **Compliance with Applicable Laws.** National Grid shall comply with all Massachusetts State laws and requirements with respect to the replacement and/or removal of gas mains.

3. **Failures due to Abandoned Gas Main and Services.** Should any issue, including but not limited to roadway settlement or collapse, gas leakage, groundwater, or storm water interference, etc. arise because of National Grid's abandoned mains, services, appurtenances or associated trenches, National Grid shall promptly respond to make all necessary repairs to the affected area as required by the road restoration standards set forth in D.T.E. 98-22. Failure to do so may result in a revocation, delay, or denial of any pending or future GOLs applied for by National Grid.

Printed on 30% post consumer recycled paper

4. **Conflicts with Abandoned Gas Mains.** If any of National Grid's abandoned mains, including the main to be abandoned under this petition for a GOL, present conflicts with future improvements to the public street infrastructure including but not limited to sidewalk, drainage or public utilities, National Grid will work with the Town to minimize the impacts of these conflicts including potentially using National Grid's resources to help with the following: (1) confirming or identifying the location of the mains (that may not be identified by Dig Safe), (2) confirming that the main has no residual gas, and (3) working with the Town to remove any obstructing facilities. Failure to do so may result in the revocation, delay or denial of any existing, pending or future GOLs applied for by National Grid. A National Grid representative shall attend pre-construction meetings related to Town projects and other construction meetings as needed to provide information necessary to minimize conflicts with live and abandoned gas infrastructure.

5. **Right of Way Permit** – A right-of-way (ROW) permit issued by CPW Engineering is required to perform work in the public street. CPW Engineering reserves the right to add and/or adjust permit stipulations related to construction standards, work quality, work site maintenance, schedule adjustments, etc. when these become necessary to address new information and conditions related to the project or project site. All work shall be performed in compliance with the conditions of this memorandum and D.T.E. 98-22. If any provision of this GOL is inconsistent with the standards set forth in D.T.E. 98-22, the Town and National Grid agree that National Grid shall be required to comply with all standards in D.T.E. 98-22.

6. **Traffic Control Plan** – As part of the ROW permit a traffic management plan meeting the Manual of Uniform Control Traffic Devices (MUTCD) shall be submitted to the Concord Police Department (CPD) Traffic Safety Officer and CPW Engineering. It appears from the plan provided that the work will require, at a minimum, partial closing of the roadway and potentially pedestrian paths. A sketch shall be provided detailing how the anticipated vehicular and pedestrian movements will be managed for the duration of the project. The construction hours shall be in conformance with the requirements of the ROW permit, and any changes to work hours and significant deviations from the traffic control plan shall be approved by CPD and the Town Engineer. The roadway and sidewalk shall be secured at the end of each workday to ensure safe and adequate passage. The temporary pedestrian route shall conform to ADA regulations. Work shall not commence until the review and approval of the traffic mitigation plan are completed.

7. **Tree Protection** – Contractors shall adhere to the CPW Construction and Tree Protection Standard Operating Procedures including the protection of public shade trees: "No person may plant, trim, cut, or remove a public shade tree without the prior permission of the Tree Warden and Engineering Division. This control includes the

cutting of roots during construction." The contractor shall be responsible for installing wooden tree guards with orange snow fencing on public shade trees located within the work zone.

8. **Construction Notifications** – National Grid shall notify emergency services, the school district, the post office, and CPW Solid Waste for trash pickup services via email one week prior to the start of construction. National Grid shall also notify neighborhood residents and businesses two weeks prior to the start of construction via certified mail or door hanger notifications. Additionally, National Grid is required to give prior notice to CPW Engineering regarding daily work in the ROW as specified in the ROW permit.

9. **Preconstruction Meeting** - National Grid shall schedule a preconstruction meeting with all pertinent Town divisions, other utility companies and stakeholders two weeks prior to the commencement of construction. National Grid shall also schedule a neighborhood meeting for residents and/or businesses immediately adjacent to the project, where National Grid shall answer questions related to the construction.

10. **Separation from Existing Utilities in Roadway and Excavation Requirements** - National Grid shall maintain the following minimum offsets from existing infrastructure with its new mains.
    - Minimum of 3' from all other existing utilities and utility structures
    - Minimum of 1' vertical separation to any utility crossing

    All Town utility crossings shall be vacuum truck excavated in the area of the crossings. National Grid or their subcontractor shall notify CPW Engineering and respective utility owners of all anticipated utility crossings 24 hours in advance of the excavation.

11. **Trenching, Patching, and Pavement Restoration** – National Grid must backfill the trench with suitable material, in 6-inch lifts, and compact with mechanical vibratory devices such as vibratory roller, plates, or rammer (pogo stick). Suitable backfill material will mean an imported product meeting the gradation specification for MassDOT M1.03.1 Processed Gravel for sub-base. The gravel material delivered must pass a three (3) inch square mesh sieve and shall not contain frozen material. National Grid or its subcontractor must submit material data sheets to the Engineering Division prior to commencing work. No work shall commence until Engineering has completed its review of the material data sheet. National Grid shall have a Geotechnical Engineer certify that the material inside the trench and the compaction of the material meets Town of Concord Design and Construction Standards. The material data and the Geotechnical Engineer certification can be omitted if National Grid provides the Town with a five-year warranty for the pavement in the area of their trench.

    The patch shall be considered temporary until National Grid completes the final repaving of the project area. During this period any settlement or delamination of

pavement within the patch or unacceptable deterioration of adjacent pavement caused by the construction shall be rectified by National Grid or its subcontractors within two days of notice of defect.

Asphalt binder (a minimum of 4.5-inches or existing depth, whichever is greater) patching shall be placed in two lifts at all trenched locations in preparation for a mill and fill of the area described next.

The pavement on this section of Pond Street is in good condition with a Pavement Condition Index of 78 per the Town's 2024 roadway scan, and this project will result in significant destruction of the pavement. National Grid is required to mill the top 2" of the width of the travel lane (center line/peak of crown to edge of curb/edge of pavement) where the gas main is proposed. This mill and fill shall start at Laws Brook Road Gutter Line and extend to the end of pavement on Pond Street. All gas main and service patches that cross into the travel lane which is not being fully milled and filled shall be milled across the travel lane (center line/peak of crown to edge of curb/edge of pavement) a minimum of 20-foot wide over each patch and repaved. All pavement markings that are disturbed by the trenching and/or final paving shall be reapplied to the roadway.

National Grid shall not perform any excavation in the new pavement on Laws Brook Road unless it is absolutely necessary. If this is done, National Grid is required to mill the top 2" of the width of the entire roadway (curb to curb and/or edge of pavement to edge of pavement) where the excavation occurred. This mill and overlay on Laws Brook Road shall extend 20-feet on both sides of the trench.

Unless National Grid opts to give a five-year warranty in lieu of geotechnical requirements mentioned above, they will provide a two-year warranty for all paving mentioned above to ensure that no issues arise as a result of the gas main trenching on these streets with good to excellent pavement condition.

12. **Trench Plates** – All work from this project must be performed during the normal construction season, April 1st to the middle of November. CPW understands that work can potentially be performed during an unseasonal winter snow events, but during this time no steel plates will be permitted to secure trenches. If the use of steel plates becomes absolutely necessary because of a critical change in the work plan, CPW shall be immediately notified, and the installation of the plates will strictly follow the requirements to allow safe and proper snow removal. National Grid will be held liable for any incidents due to inadequate removal of snow and ice in the work area related to improperly installed trench plates and/or obstructions caused by their work in the work area. The plates shall be in place for no more than 24 hours or the duration of a snow or ice event. They shall be monitored to make sure they remain secure. Use of Plates during the Town's regular ROW Permit season shall strictly conform to the requirements in the ROW Permit.

13. **As-Built Plans** – An as-built plan of the new main and all appurtenances as well as a record drawing of the Abandoned Main and all its appurtenances shall be provided to CPW Engineering prior to the final closeout of the ROW Permit.

PETITION OF NATIONAL GRID FOR GAS MAIN LOCATIONS

Town of Concord / Board of Selectmen:

The Nationalgrid hereby respectfully requests your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the **Town of Concord** and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

As part of the BSMNRPL program, Nationalgrid recommends the relay of: approximately 425 feet of 2 -inch, 60 Coated Steel (1930) with approximately 425 feet of 2- inch, Plastic in Pond St from existing 4-inch, 60 Coated Steel (1930) in Laws Brook Rd to end of main at #46 Pond St, and the installation of approximately 25 feet of 2- inch, Plastic off Pond St to existing 2- inch, Plastic main installed in right of way between Pond St and Sunnyside Ln

Date: **August 15,2024**

By: Mary Mulroney
Mary Mulroney
Permit Representative

Town of Concord / Board of Selectmen:

IT IS HEREBY ORDERED that the locations of the mains of the Nationalgrid for the transmission and distribution of gas in and under the public streets, lanes, highways and places of the **Town of Concord** substantially as described in the petition date **August 15, 2024** attached hereto and hereby made a part hereof, and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and/or accomplish the objects of said Company, and the digging up and opening the ground to lay or place same, are hereby consented to and approved.

The said Nationalgrid shall comply with all applicable provisions of law and ordinances of the **Town of Concord** applicable to the enjoyment of said locations and rights.

Date this _____ day of _____, 20____.

I hereby certify that the foregoing order was duly adopted by the _____ of the City of _____, MA on the _____ day of _____, 20____.

By: _____

_____
Title

WO #1501891

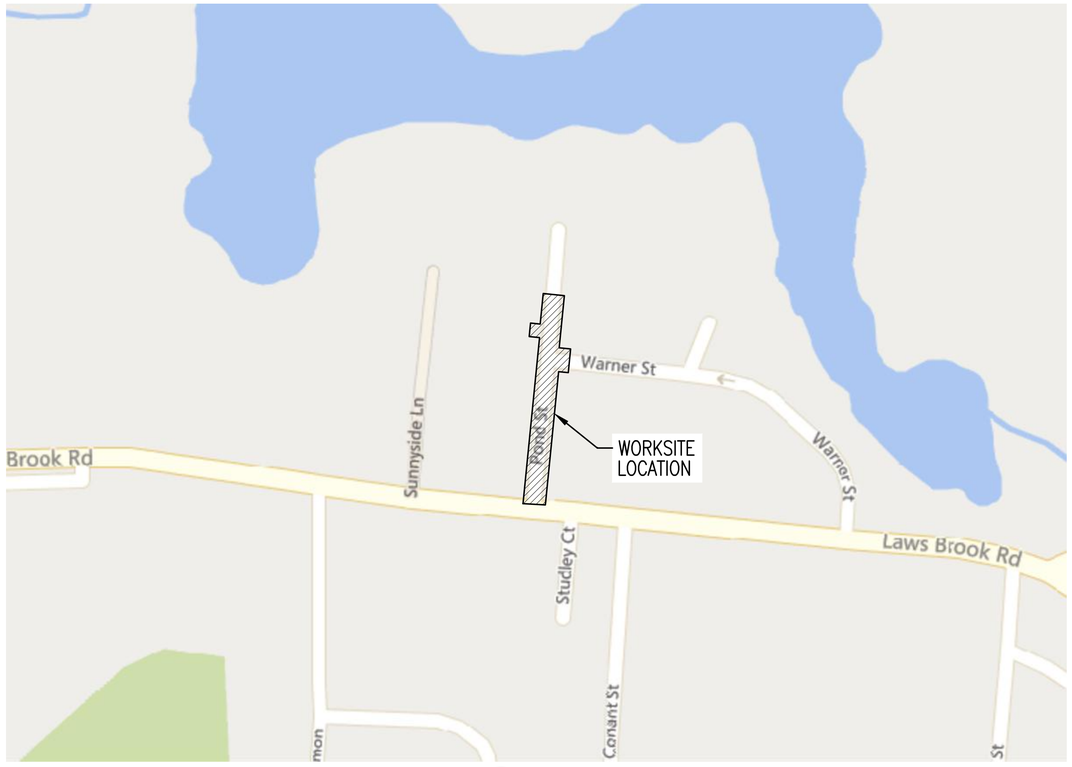
RETURN ORIGINAL TO THE PERMIT SECTION
NATIONAL GRID
40 SYLVAN RD, WALTHAM, MA 02451
RETAIN DUPLICATE FOR YOUR RECORDS

Printed on 05/12/2025 at 12:48 PM

3-46 POND ST

NATIONAL GRID
APPROX. 450' OF 2" MDPE (60 PSIG) GAS MAIN RELAY
3-46 POND STREET, CONCORD, MA
W.O. NO.: 1501891

N



LOCUS
150' 75' 0 150'
SCALE 1"=150'

1

INDEX OF SHEETS		
PAGE	NAME	TITLE
01	CON-1501891-01	COVER SHEET
02	CON-1501891-02	CONSTRUCTION NOTES
03	CON-1501891-03	BILL OF MATERIALS
04	CON-1501891-04	PROPOSED INSTALLATION PLAN OVERVIEW
05	CON-1501891-05	PROPOSED INSTALLATION PLAN SHEET 1 OF 1
06	CON-1501891-06	PROPOSED LOCATION DETAIL SHEET 1 OF 2
07	CON-1501891-07	PROPOSED LOCATION DETAIL SHEET 2 OF 2
08	CON-1501891-08	MISCELLANEOUS DETAIL 1 OF 3
09	CON-1501891-09	MISCELLANEOUS DETAIL 2 OF 3
10	CON-1501891-10	MISCELLANEOUS DETAIL 3 OF 3

811 DigSafe MA.ME.NH.RI.VT

BL Companies
Architecture
Engineering
Environmental
Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
07/08/24
Andrew J. Cavallo
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
1	ISSUED FOR CONSTRUCTION	07/03/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	12/07/2022	KB	DT	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

COVER SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON - 1501891-01	G-001

CONSTRUCTION NOTES

SCOPE OF WORK

NATIONAL GRID WORK ORDER NUMBER 1501891:

3-46 POND ST, CONCORD, MA

AS PART OF THE BSMNRPL PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF:

--> APRX 425 FEET OF 2 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) WITH APRX 425 FEET OF 2 INCH, 60 PSIG PLASTIC IN POND ST FROM EXST 4 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) IN LAWS BROOK RD TO END OF MAIN AT #46 POND ST, AND

--> THE INSTALLATION OF APRX 25 FEET OF 2 INCH, 60 PSIG PLASTIC OFF POND ST TO EXST 2 INCH, 60 PSIG PLASTIC MAIN INSTALLED UNDER WO#1503350 IN RIGHT OF WAY BETWEEN POND ST AND SUNNYSIDE LN

GENERAL

1 NO FIELD CHANGES SHALL BE MADE TO THIS DESIGN WITHOUT APPROVAL FROM THE ASSIGNED NATIONAL GRID ENGINEER:
ENGINEER: GREG LOGUE
PHONE: 508-573-0167
EMAIL: GREGORY.LOGUE@NATIONALGRID.COM

2 NEW MAINS SHOULD BE INSTALLED IN ACCORDANCE WITH THE TYPICAL TRENCH DETAIL INCLUDED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.
- A 36 INCHES OF COVER FROM FINAL GRADE WHERE PRACTICAL.
- B STATE HIGHWAY MINIMUM COVER: 36 INCHES
- C DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
- D SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
- E CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

3 SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.
- A MINIMUM IN PUBLIC ROW: 18 INCHES
- B MINIMUM IN PRIVATE PROPERTY: 12 INCHES
- C SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
- D CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

4 ALL REQUESTS FOR SHALLOW MAINS AND FITTINGS MUST BE APPROVED PRIOR TO INSTALLATION. PLEASE REFER TO CNST04017, SHALLOW MAINS POLICY (MA ONLY) FOR REQUIREMENTS (24" ON MUNICIPAL ROADS, 36" ON ROADS UNDER MASSDOT JURISDICTION) AND GUIDANCE WHEN ENCOUNTERING FIELD CONDITIONS THAT MAY LEAD TO INSTALLING A SHALLOW DISTRIBUTION MAIN OR FITTING. PLEASE REFER TO CNST-6030-MA-RI FOR THE PROPER INSTALLATION OF PROTECTIVE STEEL PLATES. CONTACT GAS PIPELINE SAFETY & COMPLIANCE TO OBTAIN DPU APPROVAL:
- A LIEN MOOREHEAD - (617) 438-9069
- B JASON BARON - (351) 666-9082
- C IF A PROPOSED TOP TEE CONNECTION RESULTS IN A SHALLOW MAIN THAT CANNOT MEET THE WAIVER CRITERIA, A FULL TEE CONNECTION IS AN ACCEPTABLE ALTERNATIVE. A SPHERICAL TEE IS ONLY ACCEPTABLE WITH APPROVAL FROM NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.

5 ALL MAINS SHOULD BE INSTALLED WITH CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.
- A ALL MAINS SHOULD BE INSTALLED WITH CLEARANCE OF 12 INCHES FROM OTHER FACILITIES. (24 INCHES PREFFERRED CLEARANCE FROM CONCORD WATER AND DRAIN).
- B DISTRIBUTION MINIMUM CLEARANCE: 12 INCHES (FOR TOWN OF CONCORD) 1

6 THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 3 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE ACTUAL ROUTE AND ALL VERTICAL AND HORIZONTAL OFFSETS ARE TO BE FIELD ROUTED WITHIN THE PUBLIC RIGHT-OF-WAY BASED ON THE ACTUAL LOCATION OF EXISTING UTILITIES. ADDITIONAL FITTINGS NOT SHOWN WILL BE REQUIRED.

7 VALVES DEPICTED IN THE DESIGN ARE THE MINIMUM REQUIRED FOR SECTIONALIZING, ISOLATION, CRITICAL VALVES, AND/OR TO ACCOMMODATE TIE-INS. ADDITIONAL FULL PORT VALVES MAY BE ADDED TO ACCOMMODATE CONSTRUCTION.
- A VALVES FOR BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.

8 ELECTROFUSION COUPLINGS MAY BE INTERCHANGED WITH BUTT FUSION WHERE APPLICABLE.

9 TIE-IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY:
- A REGULATOR STATION WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN LOCATION.
- B CHANGE TO THE NUMBER OF CONNECTIONS (ADDITIONAL ADDED FROM AN INTERSECTION OR OTHERWISE).
- C MATERIAL/SIZE CHANGE AT NEW LOCATION.

10 NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.

11 WHEN CONNECTING NEW 'DEAD' MAIN TO NEW 'DEAD' MAIN, ALL CONNECTIONS SHALL BE MADE USING AN INLINE TEE, UNLESS OTHERWISE NOTED. PRIOR TO INSTALLATION, ANY FIELD CHANGE IN CONNECTION TYPE ON 'DEAD' MAIN SHALL BE REVIEWED AND APPROVED BY ENGINEERING.

12 THE LIVE MAIN CONNECTION DETAIL SHOWN IN THE DRAWINGS SHALL BE FOLLOWED. ANY CHANGES TO THE TIE IN CONNECTION TYPE SHALL BE APPROVED BY THE NATIONAL GRID ENGINEER PRIOR TO CONSTRUCTION.

13 CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED.

14 CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.

15 NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR STATION.

DESIGN CRITERIA

1 DESIGN IN ACCORDANCE WITH THE FOLLOWING:
- A ENG04001: DESIGN OF DISTRIBUTION MAINS
- B ENG04003: MAOP VERIFICATION POLICY FOR PLASTIC GAS DISTRIBUTION NETWORKS
- C ENG04010: DESIGN REQUIREMENTS FOR INSTALLATION OF CASINGS

2 PROPOSED PIPING:
- A DESIGN CLASS LOCATION – 4
- B NOMINAL SIZE – 2 INCH
- C MATERIAL – MDPE
- D SYSTEM MAOP – 60 PSIG

3 PIPE SIZE WAS DESIGNED AND APPROVED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING AND REFERENCED IN THE DESIGN PARAMETERS ON SHEET C-001.

4 WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SERVICE DESIGN CRITERIA

1 DESIGN IN ACCORDANCE WITH THE FOLLOWING:
- A ENG02001: DESIGN OF GAS SERVICES
- B ENG04003: MAOP VERIFICATION POLICY FOR PLASTIC GAS DISTRIBUTION NETWORKS

2 PRIOR TO MAIN ABANDONMENT, THE CONTRACTOR SHALL CONFIRM THAT ALL IMPACTED CUSTOMER SERVICES ARE INSTALLED (E.G., RELAYED, TRANSFERRED, OR INSERTED) ON THE NEW MAIN.

3 WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER-PRESSURE MAIN, AND CONSISTENT WITH ENG04003 (THE POLICY):
- A SERVICES MAY BE RE-VERIFIED AND TRANSFERRED TO THE NEW MAIN ONLY IF ALL REQUIREMENTS IN THE POLICY ARE MET.
- B ALL SERVICES THAT ARE ELIGIBLE FOR RE-VERIFICATION AND TRANSFER SHALL BE IDENTIFIED WITHIN THIS PLAN SET ON THE ASSOCIATED ELIGIBLE SERVICE TABLE.
- C IMPLEMENTATION OF THE POLICY SHALL BE DOCUMENTED PER THE POLICY REQUIREMENTS.

4 WHEN UPRATING, DOWNRATING, OR RELAYING A MAIN WITH A DIFFERENT PRESSURE:
- A CONSTRUCTION SHALL CONTACT ENGINEERING PRIOR TO INSTALLATION FOR ANY CHANGES TO PROPOSED SERVICE SIZING OR INSTALLATION METHOD.
- B ALL INSTALLED SERVICES SHALL BE APPROPRIATELY FITTED WITH SERVICE REGULATORS FOR THE NEW OPERATING PRESSURES.

5 FOR NEW OR RETROFITTED METERFITS, SEE 1703 FORM FOR CUSTOMER METERFIT INFORMATION

PROJECT CONSTRUCTION REQUIREMENTS:

1 PER NATIONAL GRID GAS POLICY DOC# ENG05004, ALL COMPLEX PROJECTS ARE REQUIRED TO PREPARE AN SOP IN ACCORDANCE WITH THE STAMPED PLANS, WHICH MUST BE APPROVED BY A PROFESSIONAL ENGINEER. THE SOP MUST INCLUDE ALL PROPOSED PROJECT SPECIFIC STEPS AND PROCEDURES TO DEFINE AN ADEQUATE SEQUENCE FOR CONSTRUCTION OF THE MAIN.

2 IN ACCORDANCE WITH MASSACHUSETTS 220 CMR 105.00, THE STAMPED SOP IS CONSIDERED PART OF A REQUIRED PROJECT SPECIFIC PACKAGE TO PERFORM ANY COMPLEX PROJECT CONSTRUCTION. THEREFORE, FOR ANY COMPLEX PROJECT CONSTRUCTION WORK, THE CONTRACTOR MUST FOLLOW THE PE STAMPED SOP.

3 PRIOR TO CONSTRUCTION, ALL WATER MAIN AND WATER SERVICES SHALL BE MARKED OUT BY CPW WATER & SEWER DEPARTMENT.

4 ALL WATER MAIN AND SERVICE CROSSINGS SHALL BE HAND DUG AND INSPECTED BY CPW WATER & SEWER DIVISION. INSPECTIONS SHALL OCCUR POST-INSTALLATION AND PRIOR TO TRENCH BACKFILL. A 48-HOUR INSPECTION NOTIFICATION IS REQUIRED. 1

CODES & STANDARDS

1 WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES IN ADDITION TO NATIONAL GRID GAS POLICIES AND WORK METHODS. WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.

2 ALL REFERENCES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT REVISION AVAILABLE AT THE TIME OF CONSTRUCTION.

3 FEDERAL & STATE
- A TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
- B 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
  100.00 - 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
- C AMERICAN SOCIETY OF MECHANICAL ENGINEERS
  B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS

4 CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:
- A CNST01003: BACKFILL AND RESTORATION
- B CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
- C CNST01006: COMMERCIALLY AVAILABLE SHORING SYSTEMS
- D CNST02014: ENCAPSULATING CAST IRON JOINTS
- E CNST03001: SQUEEZE-OFF OPERATIONS
- F CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS
- G CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES
  a. CNST03006: PURGING OPERATIONS – DIRECT DISPLACEMENT
  b. CNST03007: PURGING OPERATIONS – COMPLETE INERT FILL
  c. CNST03008: PURGING OPERATIONS – SLUG METHOD
- H CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
- I CNST04005: INSTALLING STEEL DISTRIBUTION MAINS
- J CNST04007: FIELD COLD BENDING OF LINE PIPE
- K CNST04008: INSTALLING PLASTIC MAINS
- L CNST04011: ABANDONMENT OF MAINS
- M CNST04012: GROUTING ABANDONED PIPELINES
- N CNST04030: RAISING MAIN AND SERVICE GATE BOXES
- O CNST05001: JOINING OF PLASTIC PIPE
- P CNST01000: GENERAL CONSTRUCTION REQUIREMENTS
- Q DAM01011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND
- R DAM01015: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES
- S DAM01016: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES
- T GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
- U GEN01100: OPERATOR QUALIFICATION PLAN
- V GEN03001: PREPARATION AND PROCESSING OF GAS MAIN AND NEW SERVICE WORK PACKAGES - MASSACHUSETTS
- W GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
- X INR06002: SUPPLEMENTAL ODORIZATION FOR NEW PIPING
- Y MECH5010: JOINTS OTHER THAN WELDED
- Z 030018-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES

5 SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:
- A CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
- B CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES
- C CNST03011: NO-INTERRUPT SERVICE TRANSFER
- D CNST06002: INSTALLING DISTRIBUTION SERVICES
- E CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED METER CAPACITIES OVER 1,000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES
- F CNST06009: METER/SERVICE RELOCATION GUIDELINE
- G CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
- H CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE
- I CS-SERV001: TYPICAL 1/2" SERVICE OUTSIDE SETS
- J CS-SERV002: TYPICAL 1" SERVICE OUTSIDE SETS
- K CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS
- L CS-SERV004: TYPICAL 2" SERVICE
- M CS-SERV005: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES
- N CS-SERV009: TYPICAL 1/2" SERVICE INSIDE SETS
- O CS-SERV010: TYPICAL 1" SERVICE INSIDE SETS
- P HTAP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG MAINS
- Q SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE
- R SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN - 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL
- S SERV-6186: HOT TAPPING BRANCH SADDLES OFF 4"-12" LIVE PLASTIC GAS MAIN USING HDPE SUPRAFLOW TEES
- T VALV6110: 1/2 INCH - 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION

6 SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION, STANDARD AND/OR APPLICABLE NATIONAL GRID "FITS" REFERENCE.
- A FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

PRESSURE TESTING

1 PRESSURE TEST MAIN IN ACCORDANCE WITH:
- A CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
- B TEST PRESSURE (MINIMUM): 90 PSIG
- C TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1.
- D TEST MEDIUM: AIR AND/OR NITROGEN

2 PRESSURE TEST SERVICES IN ACCORDANCE WITH:
- A CNST06008: PRESSURE TESTING SERVICE LINES

WELDING

1 NATIONAL GRID WELDING GAS POLICIES AND WORK METHODS INCLUDE:
- A CNST05002: WELDING POLICY
- B CNST05003: PIPE WELDING SAFETY
- C CNST05005: WELDING PROCEDURE SPECIFICATIONS
- D MS-030: WELDING FILLER MATERIALS

2 PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL SUBMIT WELDER CERTIFICATION DOCUMENTS FOR EACH OF THE WELDERS EMPLOYED ON THIS PROJECT.

3 WELDING PROCEDURE SPECIFICATIONS REQUIRED:
- A BUTT WELDS (GROOVE): WPS-SMAW-E6010/7010 (LATEST REVISION)
- B FILLET WELDS (BRANCH): WPS-SMAW-E6010/7010 (LATEST REVISION)

4 10% (AT LEAST 1) OF WELDS IN EACH CATEGORY BELOW SHALL BE SUBJECT TO NON-DESTRUCTIVE EXAMINATION (NDE).
- A BUTT WELDS 2-INCH AND GREATER: 10% RADIOGRAPH
- B BUTT WELDS < 2-INCHES: 10% MAGNETIC PARTICLE
- C FILLET WELDS: 10% MAGNETIC PARTICLE

5 FOR EXPOSED MAIN INSTALLED ON A BRIDGE OR BURIED MAIN UNDER BRIDGE APPROACH SLABS, 100% OF THE WELDS SHALL BE SUBJECTED TO NDE.
- A 100% OF BUTT WELDS > 2" SHALL BE RADIOGRAPHED
- B 100% OF WELDS <= 2" SHALL RECEIVE MAGNETIC PARTICLE TESTING
- C 100% OF FILLET WELDS SHALL BE MAGNETIC PARTICLE TESTED

6 NDE AND WELD MAP SHALL BE PROVIDED BY SKYTESTING.

7 SKYTESTING SCHEDULING CONTACT:
NAME: WILLIAM (BILL) CLARK
CELL: 704-858-7794
EMAIL: WCLARK@SKYTESTING.COM

CATHODIC PROTECTION

1 IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:
- A (CONSTRUCTION) DAVE HALNEN: (781) 379-7831
- B (DESIGN REVIEW) ALANNA GRONDINE: (339) 225-5378
- C (ATMOSPHERIC) ALISSIA APINIAN-MARGIOS: (781) 296-7569

2 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.

3 NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:
- A COR01100: CORROSION DESIGN CRITERIA
- B COR02001: APPLICATION OF COATING SYSTEMS
- C COR02020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
- D COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION
- E COR03001: TESTING OF PIPE COATING (JEEP TESTING)
- F COR04001: INSTALLATION OF MAGNESIUM ANODES
- G COR04003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
- H COR04004: INSTALLATION OF WIRE CONNECTIONS
- I COR04005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
- J 030031-CS: FACILITY COATING GUIDE

4 CORROSION DESIGN: SEE CONTENTS OF THIS DESIGN FOR CATHODIC PROTECTION REQUIREMENTS.

ENVIRONMENTAL

1 WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.

2 ENVIRONMENTAL ENGINEERING CONTACT:
NAME: JAIME WALKER
PHONE: (978) 551-1156
EMAIL: JAIME.WALKER@NATIONALGRID.COM

3 CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR ENVIRONMENTAL GUIDANCE FORMS, FOR EXAMPLE EG-301, FOR THE RESPECTIVE STATE.

4 WHEN SOILS OR LIQUIDS ARE ENCOUNTERED THAT ARE BELIEVED TO BE CONTAMINATED WITH OIL AND/OR HAZARDOUS MATERIAL, EXCAVATION WORK SHALL BE HAULTED AND FIELD PERSONNEL SHALL NOTIFY THEIR IMMEDIATE SUPERVISOR.

5 NO EXCAVATED SOIL SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.

6 NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:
- A SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING
- B SHE02002: REMOVING MERCURY REGULATORS AND DEVICES
- C SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
- D EG303-NE: BEST MANAGEMENT PRACTICES
- E EG140: USED GAS PIPE MANAGEMENT

7 ENVIRONMENTAL REQUIREMENTS:
- A PROPOSED WORK IS LOCATED WITHIN 100 FEET OF WETLANDS AND/OR BODIES OF WATER / WITHIN 200 FEET OF A RIVER OR A STREAM (*25 FEET IN BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, EVERETT, FALL RIVER, LAWRENCE, LOWELL, MALDEN, NEW BEDFORD, SOMERVILLE, SPRINGFIELD, WINTHROP OR WORCESTER)/ WITHIN A FLOODPLAIN.
- B ENVIRONMENTAL PERMIT AND/OR THE USE OF ENVIRONMENTAL BMPS MAY BE REQUIRED. SEE ENVIRONMENTAL MEMO FOR DETAILS.

SAFETY

1 WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.

2 REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.

3 A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.

4 CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART VI AND SHALL BE MAINTAINED BY THE CONTRACTOR.

5 NATIONAL GRID SAFETY PROCEDURES COVER THE FOLLOWING CATEGORIES:
- A A- ADMINISTRATIVE; B- INSPECTIONS; C- WALKING WORKING SURFACES; D- MEANS OF EGRESS; E- MATERIAL HANDLING AND STORAGE; F- TOXIC AND HAZARDOUS SUBSTANCES; G- HAZARDOUS MATERIALS; H- PERSONAL PROTECTIVE EQUIPMENT; I- GENERAL ENVIRONMENTAL CONTROLS, J- ACCIDENT INVESTIGATION; K- MACHINERY AND GUARDING; L- WELDING/CUTTING/BRAZING; M- EXCAVATIONS; N- CONTRACTORS; FIRE PROTECTION; Q- FLEET AND ROADWAY SAFETY

6 GAS WORK METHODS SAFETY PROCEDURES INCLUDE:
- A SHE01001: GENERAL SAFETY REQUIREMENTS
- B SHE01002: SUPPLIED-AIR RESPIRATORS
- C SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS
- D SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS
- E SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
- F SHE01006: ENTERING GAS UTILITY VAULTS
- G SHE01007: INTERNAL PIPE SEALING
- H SHE01008: USING AND MAINTAINING THE GAS-EXPLORER
- I SHE01009: USING AND MAINTAINING THE HEATH INFRARED METHANE DETECTOR
- J SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES PERFORMED IN THE FIELD

7 ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR GROUNDWATER MUST HAVE UP-TO-DATE OSHA 40-HOUR HAZWOPER TRAINING. COPIES OF OSHA CERTIFICATES/TRAINING REFRESHERS SHALL BE PROVIDED TO NATIONAL GRID FOR REVIEW PRIOR TO THE START OF WORK.

OTHER PERMITTING REQUIREMENTS

1 STREET OPENING PERMIT
2 CONCORD GRANT OF LOCATION
3 CONCORD TMP

UTILITY OWNER INFORMATION

1 NATIONAL GRID - GAS
2 CONCORD DPW - DRAIN
3 CONCORD WATER AND SEWER - SEWER & WATER
4 CONCORD MUNICIPAL LIGHT PLANT - ELECTRIC

REFERENCE DRAWINGS

1 LOCATION OF IDENTIFIED UNDERGROUND UTILITIES ARE AN APPROXIMATE BASED ON AVAILABLE RECORD AND FIELD INFORMATION IN ACCORDANCE WITH CI/ASCE 38-22. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT IDENTIFIED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATIONS, ETC.

DESIGN CONSULTANT

1 BL COMPANIES
ANDREW J. CAVALLO, P.E.
PHONE: (781) 619-9515
EMAIL: ACAVALLO@BLCOMPANIES.COM

BILL OF MATERIALS

WORK ORDER #	TOWN CODE	ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	NATIONAL GRID REFERENCE	SAP ID NUMBER
1501891	CON	1	450	FT	PIPE, PLASTIC, MDPE, SDR 11 (COILS)	2	120026-MS	9340876
1501891	CON	2	26	EA	ELBOW, PLASTIC, 90 DEGREE, MDPE	2	CS-FIT011	9341385
1501891	CON	3	2	EA	TEE, PLASTIC, FULL, MDPE	2	CS-FIT012	9342031
1501891	CON	4	6	EA	COUPLING, PLASTIC ELECTROFUSION	2	CS-FIT015	9314594
1501891	CON	5	3	EA	VALVE, BALL, MDPE, FULL PORT	2	VALV6020	9341784
1501891	CON	6	3	EA	VALVE, BOX ASSEMBLY (FOR FULL PORT 2" VALVE)	2	VALV6020	9339890
1501891	CON	7	3	EA	CAP, PLASTIC, ELECTROFUSION	2	CS-FIT015	9393634
1501891	CON	8	4	EA	CAP, MDPE, BUTT FUSION	2	CS-FIT010	9339540
1501891	CON	9	2	EA	TEE, ELECTROFUSION, HVTT	2 x 2	CS-FIT015	9314590
1501891	CON	10	1	EA	TEE, TDW, THREE-WAY, CONTOURED	2	FITS6055	9310679
1501891	CON	11	1	EA	TRANSITION, PLASTIC TO STEEL	2	120026-MS / 120020-MS	9339392
1501891	CON	12	2	EA	FITTING, SHORTSTOPP, TDW	2	FITS6055	9314326
1501891	CON	13	1	EA	CAP, COMPRESSION, RESTRAINING, 2 INCH IPS, NUT TYPE DRESSER STYLE 90	2	FITS6024	9315991
1501891	CON	14	1	EA	CAP, WELDED, STEEL	2	MATL3100	9312095
1501891	CON	15	10	FT	PIPE, CARBON STEEL, 0.154 IN. WALL, WRAPPED, 21 FT. UNIFORM LENGTHS, PLAIN END BEVELED	2	120020-MS	9340728
1501891	CON	16	4	EA	ELBOW, STD WALL, WELD, BUTT, 90 DEG, LR FORGED STEEL	2	MATL3100	9315522
1501891	CON	17	1	EA	CAP, PLASTIC, ELECTROFUSION, CTS	1	CS-FIT015	9393665
1501891	CON	18	A/R	FT	PIPE, PLASTIC, MDPE, SDR 11 (10' STICKS)	2	120026-MS	9322709
GENERAL								
1501891	CON	G1	A/R	FT	TRACER WIRE		CNST6061	9315005
1501891	CON	G2	A/R	ROLL	YELLOW CAUTION TAPE - GAS MAIN - 6" WIDE	6	CNST6060	9341904
PRESSURE TESTING (TEMPORARY)								
1501891	CON	P1	A/R	EA	CAP, MDPE, BUTT FUSION	2	CS-FIT010	9339540

*ACTUAL LENGTH/QUANTITY OF PIPE AND FITTINGS MAY VARY DUE TO FIELD CONDITIONS. ADDITIONAL MATERIALS MAY NOT BE REFERENCED ABOVE THAT ARE INCLUDED IN THE BOM OF NATIONAL GRID CONSTRUCTIONS STANDARDS REFERENCED IN THIS DESIGN PACKAGE.

1

DRAWING LEGEND

- EXISTING CS 200 PSIG CRITICAL GAS MAIN
- EXISTING CS 60 PSIG GAS MAIN
- EXISTING PL 60 PSIG GAS MAIN
- EXISTING CS 60 PSIG GAS SERVICE
- EXISTING PL 60 PSIG GAS SERVICE
- EXISTING CS 60 PSIG GAS MAIN (TO BE ABANDONED)
- EXISTING PL 60 PSIG GAS MAIN (TO BE ABANDONED)
- PROPOSED MDPE 60 PSIG GAS MAIN
- PROPOSED MDPE 60 PSIG GAS MAIN UNDER WO#1503350
- PROPOSED VALVE
- PROPOSED END CAP
- PROPOSED VALVE UNDER ALTERNATE WO#1503350
- PROPOSED END CAP UNDER ALTERNATE WO#1503350
- EXISTING VALVE (NORMALLY OPEN)
- EXISTING SERVICE VALVE
- EXISTING DRIP POT
- EXISTING END CAP
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING OVERHEAD ELECTRIC WIRE
- EXISTING ELECTRIC DUCT
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING MANHOLE
- EXISTING MANHOLE
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- EXISTING CLEANOUT HANDHOLE
- EDGE OF PAVEMENT
- EXISTING FENCE
- PROPERTY LINES
- EDGE OF BUILDING

ABBREVIATION LIST:
APPROX. ROW – APPROXIMATE ROW OF WAY
BIT WALK – BITUMINOUS WALKWAY
CB – CATCH BASIN
CMLP CONCORD MUNICIPAL LIGHT PLANT
CONC. – CONCRETE
CPW – CONCORD PUBLIC WORKS
INV – INVERT
MH – MANHOLE
NGRID – NATIONAL GRID
N/F – NOW OR FORMALLY
PID – PARCEL ID
PVC – POLYVINYL CHLORIDE
SAN – SANITARY SEWER
TF – TOP FRAME
WV – WATER VALVE

1

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COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
07/08/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
1	ISSUED FOR CONSTRUCTION	07/03/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	12/07/2022	KB	DT	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

CONST. NOTES (CONT.), LEGEND, & BOM

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON – 1501891–03	G–003

MAIN CONNECTION (MC) IDENTIFICATION LEGEND	
PE DESIGN	SOP
MC-A	
MC-B	
MC-C	

DESIGN PARAMETERS:
WO#1501891 – 3-46 POND ST, CON
SYSTEM NUMBER: WEST AREA 60#/LEOMINSTER 60# ARL/LEX/BUR 60#
SIZING RECOMMENDATION: 2IN PL
NEW MAINS' DESIGN PRESSURE: 60 PSIG
SYSTEMS' MOPS (PSIG, OR "LP"): 60 PSIG
EXPECTED OPERATING PRESSURE RANGE: 10 – 60 PSIG
DESIGN DAY TEMPERATURE (°F): 0°F
DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 5
MIN & MAX OPERATING TEMPERATURE RANGE (°F): -20°F TO +73°F
SINGLE FEED SYSTEM: YES
REVIEWED BY: KASEY ELKIN. REVIEW DATE: 10/17/2022

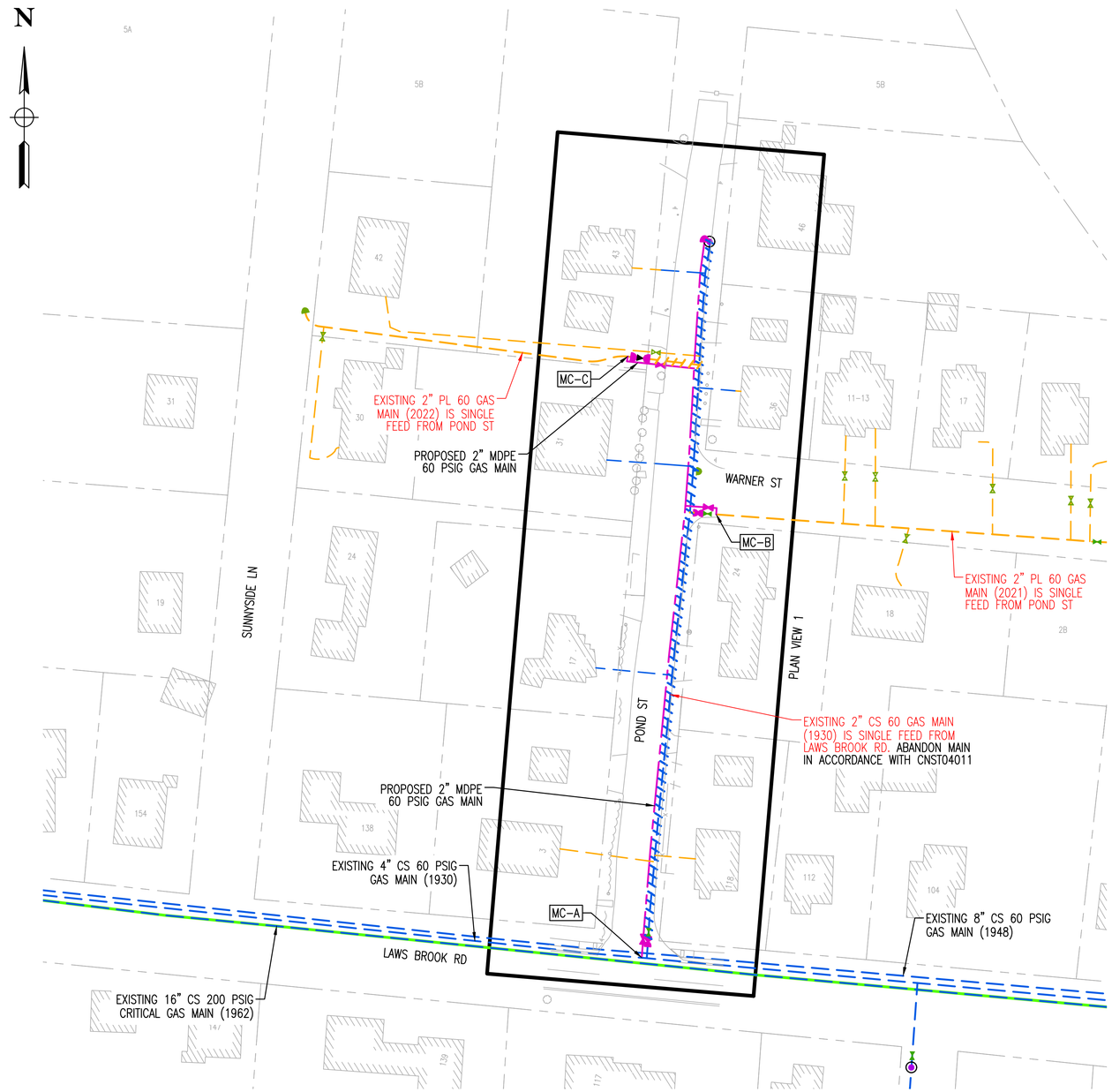
SCOPE OF WORK:
AS PART OF THE BSMNRPL PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF:
--> APRX 425 FEET OF 2 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) WITH APRX 425 FEET OF 2 INCH, 60 PSIG PLASTIC IN POND ST FROM EXST 4 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) IN LAWS BROOK RD TO END OF MAIN AT #46 POND ST, AND
--> THE INSTALLATION OF APRX 25 FEET OF 2 INCH, 60 PSIG PLASTIC OFF POND ST TO EXST 2 INCH, 60 PSIG PLASTIC MAIN INSTALLED UNDER WO#1503350 IN RIGHT OF WAY BETWEEN POND ST AND SUNNYSIDE LN

SURVEY NOTES:
1) SURFACE INFORMATION TAKEN FROM MASSGIS IN NAVD88 DATUM.
2) MASS STATE PLANE (FEET) IS USED FOR THE HORIZONTAL DATUM.
3) QUALITY LEVEL C SURVEY WAS CONDUCTED BY BL SURVEY IN JUNE 2024.
4) EXISTING UTILITIES WERE COMPILED FROM RECORDS AND MAPPING PROVIDED BY TOWN OF CONCORD ENGINEERING DEPARTMENT AND ARE NOT WARRANTED TO BE CORRECT.

TOWN UTILITY NOTES:
1. MAINTAIN A MINIMUM 12" VERTICAL AND HORIZONTAL SEPARATION FROM TOWN OF CONCORD AND CMLP, EDGE-TO-EDGE (DRAINAGE PIPES, CATCH BASINS AND INLETS, MANHOLES, FOUNDATIONS, ELECTRICAL CONDUIT, ETC.) WITHIN THE RIGHT OF WAY ON ALL CONCORD TOWN ROADWAYS.
2. MAINTAIN A MINIMUM 12" VERTICAL AND 36" HORIZONTAL SEPARATION FROM TOWN OF CONCORD WATER MAINS.
3. MAINTAIN A MINIMUM 24" SEPARATION BETWEEN PROPOSED GAS MAIN AND EXISTING UTILITY POLES.

SHEET NOTES:
1) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
2) REFER TO SHEET G-003 FOR DRAWING LEGEND.

SINGLE FEED SYSTEM:
WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.



PLAN OVERVIEW
40 20 0 40
SCALE 1"=40'

TOTAL WORK ORDER QUANTITIES	
TOTAL PIPE INSTALLATION	ESTIMATED
2" PIPE, MDPE, SDR 11	450'

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07/09/24
Andrew J. Cavallo
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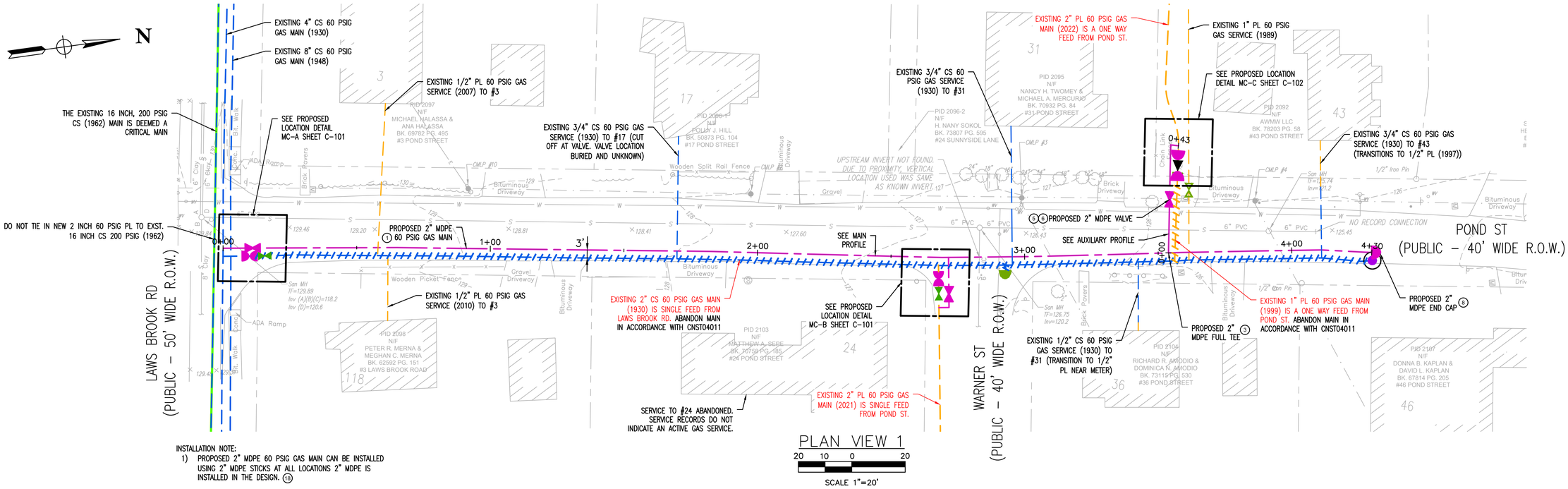
PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

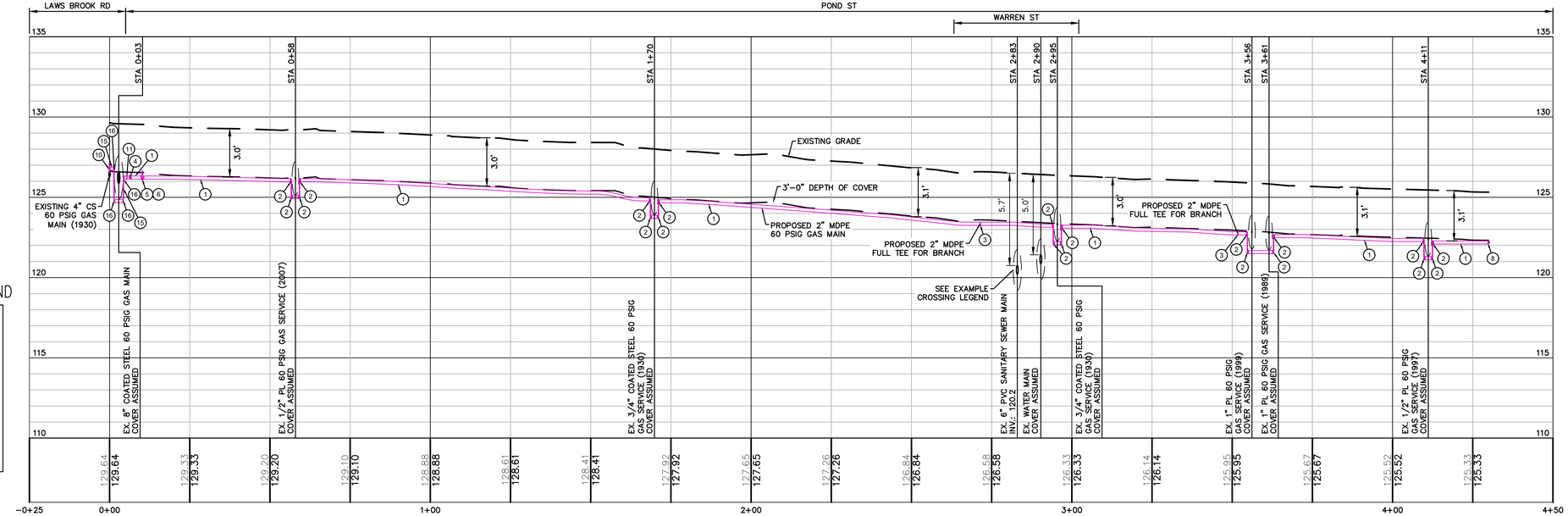
PROPOSED INSTALLATION PLAN OVERVIEW

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

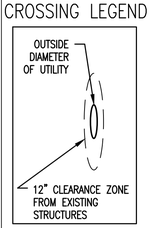
DRAWING NO.	SHEET NO.
CON – 1501891-04	C-001

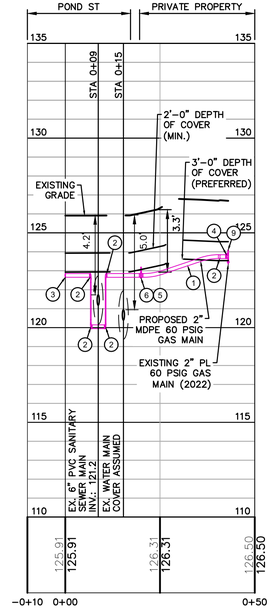


INSTALLATION NOTE:
1) PROPOSED 2" MDPE 60 PSIG GAS MAIN CAN BE INSTALLED USING 2" MDPE STICKS AT ALL LOCATIONS 2" MDPE IS INSTALLED IN THE DESIGN. (10)



EXAMPLE CROSSING LEGEND





SHEET NOTES:
1) REFER TO "TOWN UTILITY NOTES" ON C-001 FOR CLEARANCE REQUIREMENTS FROM EXISTING UTILITIES.
2) ALL WATER MAIN AND SERVICE CROSSINGS SHALL BE HAND DUG AND INSPECTED BY CPW WATER AND SEWER DIVISION. INSPECTIONS SHALL OCCUR POST-INSTALLATION AND PRIOR TO TRENCH BACKFILL. A 48-HOUR NOTIFICATION IS REQUIRED.
3) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
4) REFER TO SHEET G-003 FOR DRAWING LEGEND.
5) REFER TO SHEET C-001 FOR SINGLE FEED SYSTEM NOTE.
6) SERVICE INFORMATION ON POND ST WAS COMPILED FROM AVAILABLE SERVICE CARDS AND SPIPE REPORTS. RECORDS AT TIMES CONFLICTED OR WERE INCONSISTENT. SERVICE INFORMATION SHOULD BE FIELD VERIFIED.

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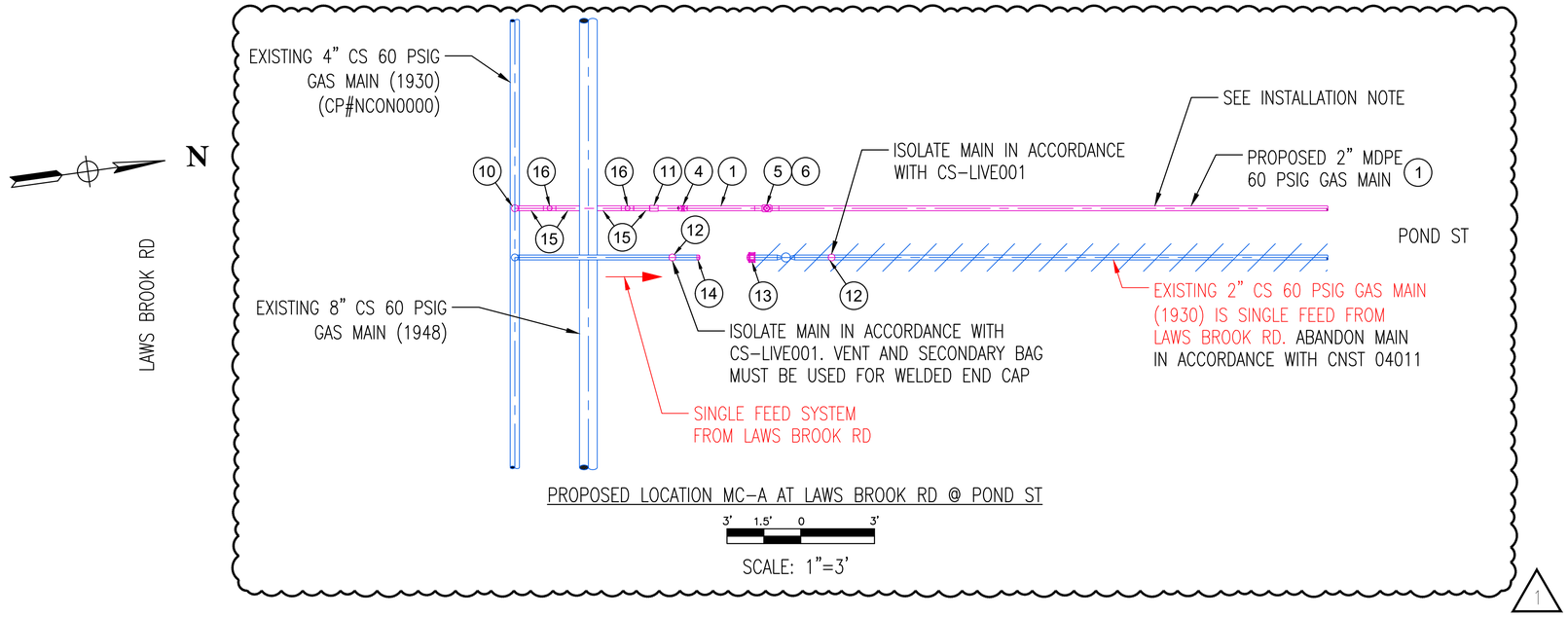
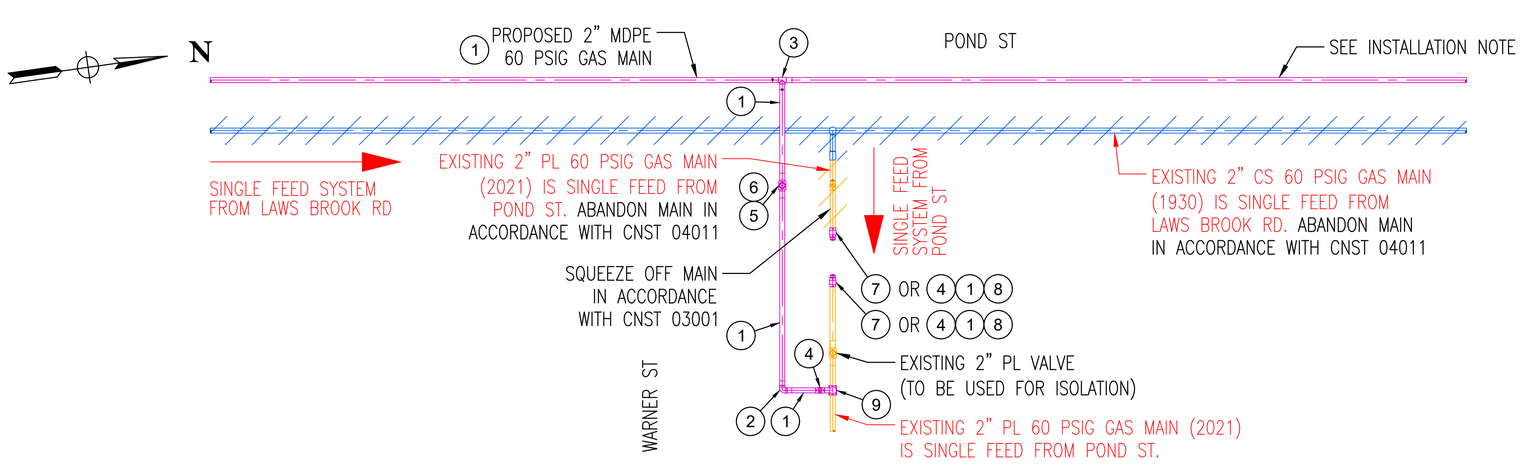
PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

PROPOSED INSTALLATION PLAN SHEET 1 OF 1

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON- 1501891-05	C-002





INSTALLATION NOTE:
1) PROPOSED 2" MDPE 60 PSIG GAS MAIN CAN BE INSTALLED USING 2" MDPE STICKS AT ALL LOCATIONS 2" MDPE IS INSTALLED IN THE DESIGN. (18)

SINGLE FEED SYSTEM:
WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SHEET NOTES:
1) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
2) REFER TO SHEET G-003 FOR DRAWING LEGEND.

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ANDREW JOSEPH CAVALLO
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07/09/24
Andrew J. Cavallo
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0	ISSUED FOR CONSTRUCTION	12/07/2022	KB	DT	AC

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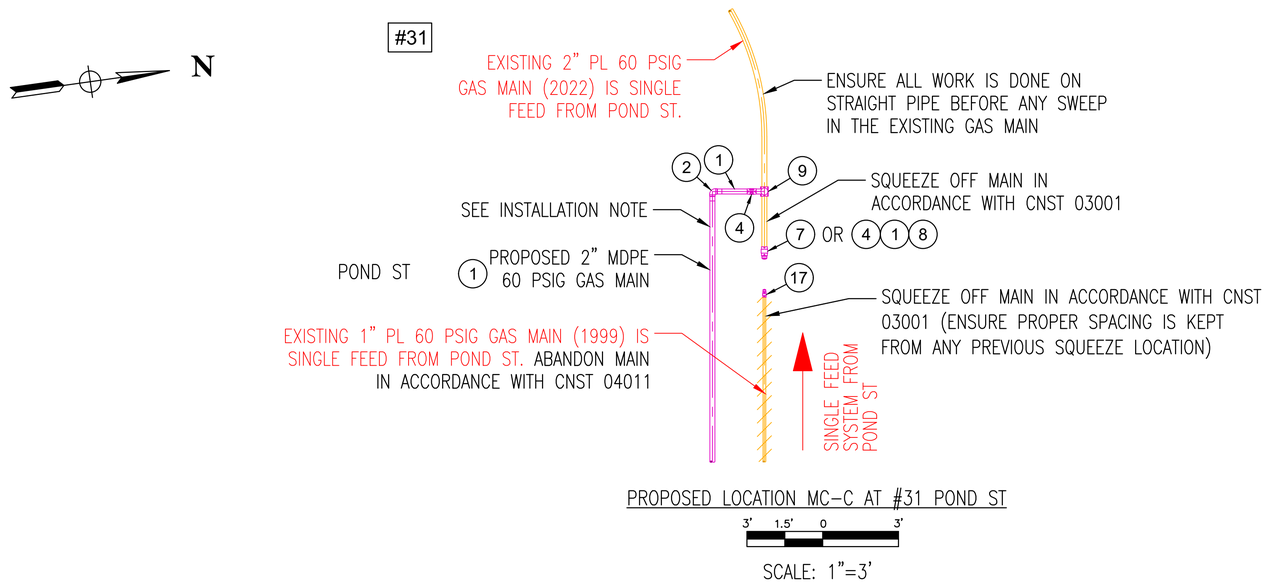
PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

PROPOSED LOCATION DETAIL SHEET 1 OF 2

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON - 1501891-06	C-101



PROPOSED LOCATION MC-C AT #31 POND ST

SCALE: 1"=3'

INSTALLATION NOTE:

1) PROPOSED 2" MDPE 60 PSIG GAS MAIN CAN BE INSTALLED USING 2" MDPE STICKS AT ALL LOCATIONS 2" MDPE IS INSTALLED IN THE DESIGN. (18)

SINGLE FEED SYSTEM:
WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SHEET NOTES:

1) REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
2) REFER TO SHEET G-003 FOR DRAWING LEGEND.

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ANDREW JOSEPH CAVALLO
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No. 54294
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07/09/24
Andrew J. Cavallo
SIGN & DATE

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0	ISSUED FOR CONSTRUCTION	12/07/2022	KB	DT	AC

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d/b/a
nationalgrid
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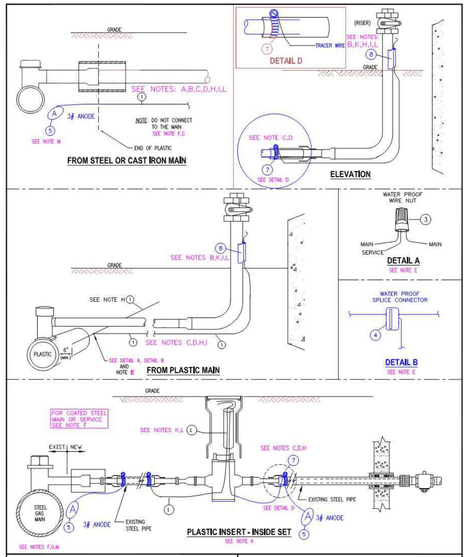
PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

PROPOSED LOCATION DETAIL SHEET 2 OF 2

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON - 1501891-07	C-102



nationalgrid LI–MA–RI–UNY

TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES

REVISIONS: UPDATED ITEM ID'S REVISED NOTES	DATE: 10/31/2004	EFFECTIVE DATE: 06/25/2020
	DESIGN: GUGLIOTTA / MCLOUGHLIN	STD. DWG. NO. CNST-6061
	DRAWN: GUGLIOTTA / DIMAIO	

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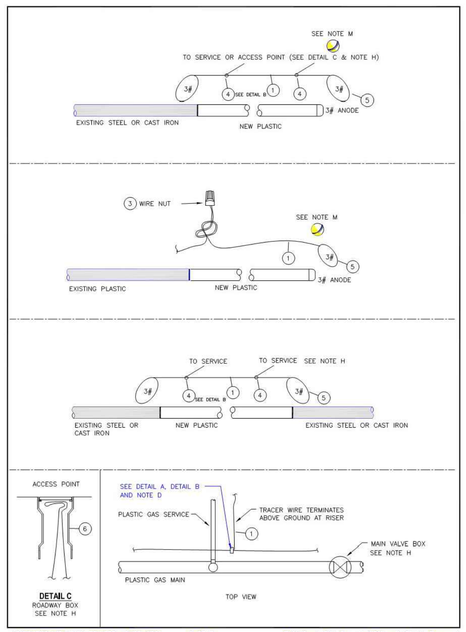

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		LI/NYC/ MASS	UNY/RI
8	TRACER WIRE SNAP, 2" (represents steel size)	9386134	9386134
8	TRACER WIRE SNAP, 1 ½" (represents steel size)	9386156	9386156
8	TRACER WIRE SNAP, 1" (represents steel size)	9386150	9386150
8	TRACER WIRE SNAP, ¾" (represents steel size)	9385568	9385568
7	CLAMP, STAINLESS	9331708	9307873
6	VALVE BOX, ROADWAY	9339890	9312344 UNY 9311208 RI
5	ANODE, 3 LB MAGNESIUM	9315645	9315645
4	WIRE SPLICE CONNECTOR, WATERPROOF	9308036	9308036
3	WIRE NUT, PLASTIC, WATERPROOF	9331644	9314631
2	WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG	9314187	9314187
1	TRACER WIRE, DIRECT BURY, COPPER, 12 AWG	9315005	9315005
NO.	ITEM	SAP ITEM ID	
	BILL OF MATERIAL		

A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", Item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut out sections of the steel pipe to be inserted with plastic, shall be connected using a section of tracer wire to maintain continuity. If the existing service is coated steel , see Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [CQR04003] or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See Installation of Test Stations for Cathodic Protection [030026-CS].

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with Installing Wire Connections [CQR04004].

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [CQR04003] or contact corrosion department for more guidance.

G. Cast Iron or Bare steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a 3# anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA-Above or alongside, UNY- alongside, RI-Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the riser.

J. For horizontal directional drill installations, use stainless wire, item #2.

K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a 3# anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

Regional Notes

NYC ONLY: refer to Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services [CNST6060-NYC] for installation of electronic marker ball in place of tracer wire.

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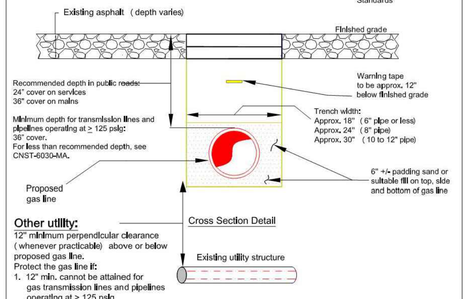
CNST-6061

Typical Utility Crossing and Trench Guidelines



Other utility:
12" minimum perpendicular clearance (whenever practicable) above or below proposed gas line.
Protect the gas line if:
1. 12" min. cannot be attained for gas transmission lines and pipelines operating at > 125 psig.
2. 6" min. cannot be attained for distribution mains.
3. 4" min. cannot be attained for services.

Minimum clearance when protection is provided against damage is 2" for all gas lines.

For Backfill and Restoration details, refer to CNST01003 - Backfill and Restoration

nationalgrid MASS.

TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES

Key Changes: REV 0 NEW STANDARD FOR MASS.	DATE: 09/15/2014	EFFECTIVE DATE: 04/15/2019
	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO. CS-CNST002-MA
	DRAWN: N. COSTANZO	

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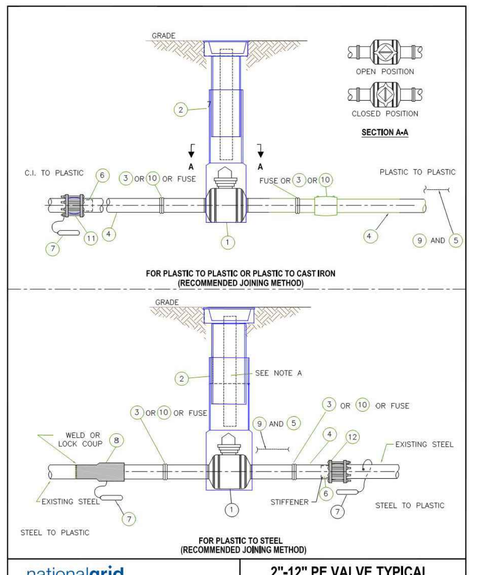

nationalgrid ALL REGIONS

2"-12" PE VALVE TYPICAL INSTALLATION

REVISIONS: UPDATED ITEM ID'S	DATE: 07/01/2003	EFFECTIVE DATE: 06/09/2020
	DESIGN: AJG / MAM	STD. DWG. NO. VALV-6020
	DRAWN: P. DIMAIO	

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NOTES:
A. IN DNY LI REGION, INSTALL A LENGTH OF 2" DIAMETER PE OR SMALLER TUBING IN THE VALVE BOX TO IDENTIFY THE VALVE AS PLASTIC.
B. INSTALL TRACER WIRE OR BALL MARKERS AS REQUIRED IN YOUR REGION FOR PE INSTALLATIONS.
C. NOT USED ON THE DNY LI 99 & 124 PSI PE SYSTEM.
D. REFER TO REGIONAL STANDARDS FOR MATERIAL IDS NOT GIVEN BELOW.

		SAP ID	SAP ID	SAP ID
1	VALVE, PE (PORT CONFIGURATION AS NOTED)	**UNY AND RI** **LP TO 100 PSIG HD** 9311203 12" DR 11 FULL PORT W/ GEAR OPERATOR **RI ONLY** 9307909 12" DR 13.5 FULL PORT W/ GEAR OPER **UNY ONLY** 9311173 8" DR 11 FULL PORT **RI ONLY** 9315189 8" DR 13.5 FULL PORT **UNY ONLY** 9312116 6" DR 11 FULL PORT 9312058 4" DR 11 FULL PORT **RI ONLY** 9308561 3" DR 11 FULL PORT 9312060 2" DR 11 FULL PORT 9311146 2" DR 11 FULL PORT WITH PERMASERT ENDS	**LI ONLY** **99 AND 124 PSIG HD** 9341706 8" RED PORT DR 9 9341705 6" RED PORT DR 9 9341700 4" RED PORT DR 9 9341699 2" FULL PORT DR 9	**LI, NYC AND NE** **LP TO 60 PSIG MEDIUM DENSITY** 9341704 12" FULL PORT DR 13.5 9386694 8" FULL PORT DR 13.5 9323032 6" FULL PORT DR 11.5 9341709 4" FULL PORT DR 11.5 9323299 3" FULL PORT DR 11 9341784 2" FULL PORT DR 11 9341408 8" RED PORT DR 13.5 9341757 6" RED PORT DR 11.5 9341693 4" RED PORT DR 11.5 9341756 3" RED PORT DR 11 **100 PSIG HIGH DENSITY (NE ONLY)** 9323610 4" RED PORT DR 11 9323611 6" RED PORT DR 11 9323612 8" RED PORT DR 11 9312060 2" FULL PORT DR 11 9312058 4" FULL PORT DR 11 9312116 6" FULL PORT DR 11
2	ROADWAY VALVE BOX WITH COVER	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN SEE DWG FITS 6360 (FOR 12" VALVE) 9311208 (FOR 2" THRU 8" VALVE)	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN 9341706 8" RED PORT 9341705 6" RED PORT 9341700 4" RED PORT 9341699 2" FULL PORT	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN 9382626 FOR 12" FULL PORT 9382626 FOR 8" FULL PORT 9339893 FOR 6" FULL PORT 9339892 FOR 4" FULL PORT 9339890 FOR 3" FULL PORT 9339890 FOR 2" FULL PORT 9339893 FOR 8" RED PORT 9339892 FOR 6" RED PORT 9339891 FOR 4" RED PORT 9339891 FOR 3" RED PORT
3	COUPLING ELECTROFUSE			
4	PLASTIC PIPE			
5	BURIAL TAPE			
6	INSERT STIFFENER (SEE NOTE C)			
7	ANODE, 17 LB			
8	TRANSITION FITTING STL TO PE			
9	TRACER WIRE OR (BALL MARKER IF USED IN REGION)			
10	COUPLING 2" PERFECTION PERMASERT (SEE NOTE C)			
11	COUPLING, PE TO CI, LOCKING INSULATING, MECHANICAL			
12	COUPLING, PE TO STL, LOCKING, NON-INSULATING MECHANICAL (SEE NOTE C)			
No.	ITEM			

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VALV-6020

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

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COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
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REGISTERED PROFESSIONAL ENGINEER
07/09/24
SIGN & DATE

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0	ISSUED FOR CONSTRUCTION	12/07/2022	KB	DT	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

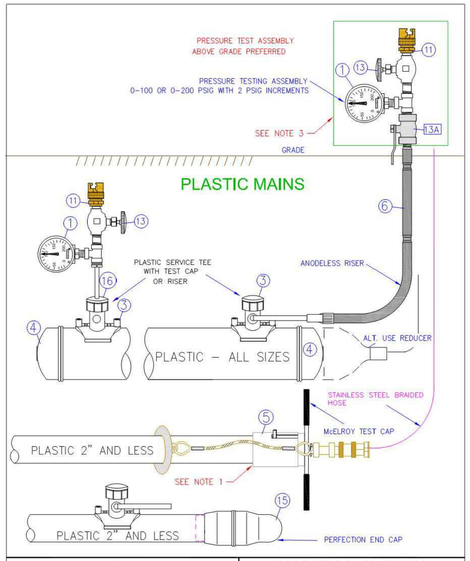
IFC

PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

MISCELLANEOUS DETAIL 1 OF 3

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON – 1501891–08	C–201



nationalgrid — ALL REGIONS

PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS

Key Changes: ADDED NOTE TO PAGE 3 REGARDING DEVIATION TO DESIGN.

DATE: 7/15/2013 | EFFECTIVE DATE: 12/15/2017
DESIGN: PAUL GUGLIOTTA | STD. DWG. NO. **CS-MAIN004**
DRAWN: P.G.

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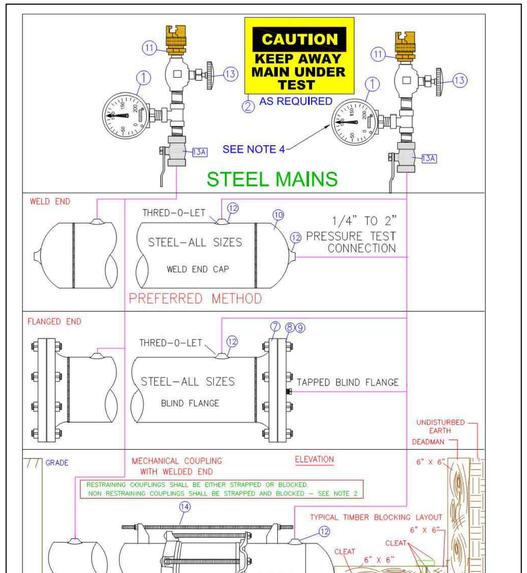

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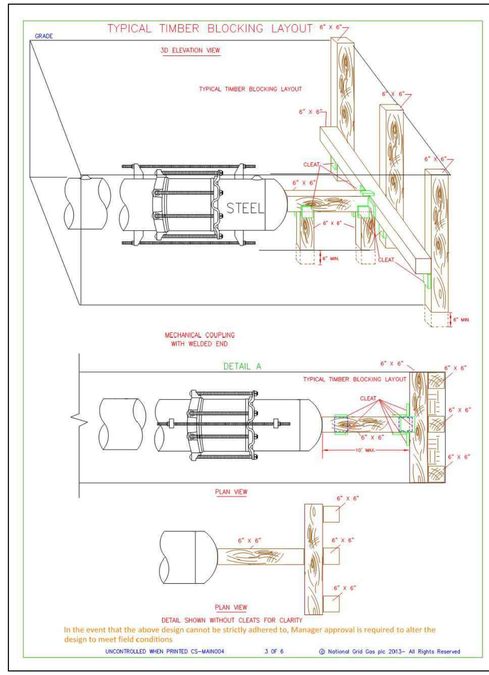

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NOTES:

1. INSTALL PER MCELROY MANUFACTURER'S INSTRUCTIONS.
2. WHEN USING MECHANICAL COUPLINGS (AS SHOWN IN DETAIL A), NON-RESTRAINING COUPLING SHALL BE STRAPPED AND THE ENDS SHALL BE BLOCKED PER APPROVED STANDARD DRAWINGS. RESTRAINING COUPLINGS NEED TO BE EITHER STRAPPED OR BLOCKED. **WHEN USING RESTRAINING COUPLINGS, STRAPPING NUTS SHOULD BE HAND TIGHT.**

2A. ON EXISTING STEEL SYSTEMS: REFER TO THE TABLE BELOW FOR THE MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL. IF A BURIED, UNSTRAPPED COUPLING EXISTS AT A DISTANCE LESS THAN THE MINIMUM SAFE EMBEDMENT DISTANCE FROM THE WALL, THEN BLOCKING IS REQUIRED FOR THE PRESSURE TEST. IF AN ALL WELDED SYSTEM CAN NOT BE CONFIRMED, THE WELDED OR FLANGED ENDS SHALL BE BLOCKED

PIPE SIZE (INCHES)	MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL (FEET)
2	5
3	8
4	12
6	24
8	41
12	70

REFER TO CONSTRUCTION STANDARD FITS-6025 AND FITS-6015 FOR LIST OF COUPLINGS.

3. IT IS RECOMMENDED THAT THE GAUGE ASSEMBLY BE ABOVE GRADE TO PREVENT PERSONNEL FROM ENTERING THE TRENCH WHILE THE PRESSURE TEST IS UNDERWAY.
4. ONE PRESSURE TEST GAUGE AT EACH PIPE END IS RECOMMENDED TO VERIFY THE PRESSURE. ALL GAUGES SHALL BE 0-100 OR 0-200 PSIG RANGE (2 PSIG INCREMENTS REQ'D IN NY STATE ONLY).
5. REFER TO CNST4003 ***PRESSURE TESTING OF MAINS OPERATING BELOW 125 PSIG*** FOR TESTING AND DESIGN REQUIREMENTS.

ITEM	DESCRIPTION	SAP ITEM ID LI / MA / NYC	SAP ITEMS RI AND UNY
1.	**PRESSURE GAUGE 0-100 OR 0-200 PSIG – 2 PSI INCREMENTS**		
	0-200 PSIG STAINLESS STEEL ½" NPT 3-1/2" DIAL	9354865	TOOL ITEM
	0-200 PSIG STAINLESS STEEL ½" NPT 2-1/2" DIAL	9358390	TOOL ITEM
	0-100 PSIG STAINLESS STEEL ½" NPT	NON STOCK	TOOL ITEM
2	**SIGN – WARNING PRESSURE TEST (AS REQUIRED IN FIELD)**	9332240	NON STOCK
3	**TEE SERVICE – ELECTROFUSION YELLOW MD 1/2" CTS BUTT FUSE OUTLET**		
	2" MAIN X ½" BUTT FUSE OUTLET	9342517 2X1/2	NON STOCK
	4" MAIN X ½" BUTT FUSE OUTLET	9342518 4X1/2	NON STOCK
	6" MAIN X ½" BUTT FUSE OUTLET	9342519 6X1/2	NON STOCK
	8" MAIN X ½" BUTT FUSE OUTLET	9342371 8X1/2	NON STOCK
	TEE SERVICE – ELECTROFUSION YELLOW MD 1" CTS BUTT FUSE OUTLET	-	
	1-1/4" MAIN X 1" OUTLET LI	9342332 1-1/4 X 1	NON STOCK
	2" MAIN X 1" OUTLET LI	9342519 2X1	NON STOCK
	4" MAIN X 1" OUTLET LI	9342521 4X1	NON STOCK
	6" MAIN X 1" OUTLET LI	9342328 6X1	NON STOCK
	8" MAIN X 1" OUTLET LI	9342372 8X1	NON STOCK
	TEE SERVICE – ELECTROFUSION BLACK HD 1" IPS BUTT FUSE OUTLET		
	2" MAIN X 1" IPS OUTLET	9322653 2X1	9322653 2X1
	3" MAIN X 1" IPS OUTLET	9322628 3X1	9322628 3X1 RI
	4" MAIN X 1" IPS OUTLET	9322620 4X1	9322620 4X1
	6" MAIN X 1" IPS OUTLET	9322626 6X1	9322626 6X1
	8" MAIN X 1" IPS OUTLET	9323497 8X1	9323497 8X1
	12" MAIN X 1" IPS OUTLET LI, NYC, MA	9351831 12X1	9351831 12X1
	TEE SERVICE – SADDLE FUSION HIGH DENSITY BLACK 1/2" CTS BUTT FUSE		
	2" MAIN X 1/2" OUTLET LI	9342405 2X1/2	NON STOCK
	4" MAIN X 1/2" OUTLET LI	9342408 4X1/2	NON STOCK
	6" MAIN X 1/2" OUTLET LI	9342407 6X1/2	NON STOCK
	8" MAIN X 1/2" OUTLET LI	9342408 8X1/2	NON STOCK
	TEE SERVICE – SADDLE FUSION HIGH DENSITY BLACK 1" CTS BUTT FUSE		
	2" MAIN X 1" OUTLET	9342409 2X1 SDR 9	9315907 2X1
	4" MAIN X 1" OUTLET	9342429 4X1 SDR 9	9315964 4X1
	6" MAIN X 1" OUTLET	9342430 6X1 SDR 9	9315963 6X1
	8" MAIN X 1" OUTLET	9342431 8X1 SDR 9	9315962 8X1
	12" MAIN X 1" OUTLET	NON STOCK	9314629 12X1
	TEE SERVICE MECHANICAL X PERFECTION OUTLET		
	2" MAIN X 1/2" OUTLET	NON STOCK	9308584 2X1/2
	4" MAIN X 1/2" OUTLET	NON STOCK	9308583 4X1/2
	6" MAIN X 1/2" OUTLET	NON STOCK	9308472 6X1/2
	8" MAIN X 1/2" OUTLET	NON STOCK	9308471 8X1/2
	2" MAIN X 1" OUTLET	9382122 2X1	9315492 2X1
	3" MAIN X 1" OUTLET	9382123 3X1	N/A
	4" MAIN X 1" OUTLET	9382116 4X1	9315490 4X1
	6" MAIN X 1" OUTLET	9382149 6X1	9308473 6X1
	8" MAIN X 1" OUTLET	9346192 8X1	9306176 8X1
	12" MAIN X 1" OUTLET	9387387 12X1	9387387 12X1

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ITEM	DESCRIPTION	ORACLE ITEM ID LI/ MA/ NYC	PEOPLESOFT ITEM RI AND UNY
4	**CAP END PLASTIC MEDIUM DENSITY YELLOW BUTT FUSE**		
	2" SDR11	2" 9339540	NON STOCK
	3" SDR 11	3" 9339541	NON STOCK
	4" SDR 11	4" 9339534	NON STOCK
	6" SDR 11	6" 9339733	NON STOCK
	8" SDR 13.5	8" 9339559	NON STOCK
	12" SDR.11.5	12" 9339560	NON STOCK
	CAP END PLASTIC HIGH DENSITY BLACK BUTT FUSION		
	2" SDR 9	2" 9339538	NON STOCK
	4" SDR 9	4" 9339535	NON STOCK
	6" SDR 9	6" 9339536	NON STOCK
	8" SDR 9	8" 9339537	NON STOCK
	2" SDR 11 MASS RI & UNY	2" 9323624	2" 9312686
	3" SDR 11 MASS RI & UNY	3" 9323625	3" 9310276
	4" SDR 11 MASS RI & UNY	4" 9323640	4" 9312685
	6" SDR 11 MASS RI & UNY	6" 9323641	6" 9312684
	8" SDR 11 MASS RI & UNY	8" 9323642	8" 9310272
	12" SDR 11 MASS, RI	12" 9308729	12" 9308729
	8" SDR 13.5 UNY	NON STOCK	8" 9312683
	12" SDR 13.5 UNY	NON STOCK	12" 9314605
5	**McELROY TEST CAPS** (165 PSIG MAX)	NON STOCK	NON STOCK
	1-1/4" MODEL TP	TP-308	TP-308
	2" MODEL TP-310	TP-310	TP-310
6	**RISER**	-	-
	1" CTS MEDIUM DENSITY X ½" NPT OUTLET	9344366	NON STOCK
	1" CTS MEDIUM DENSITY X 1-1/4" IPS OUTLET	9340874	NON STOCK
	1" HIGH DENSITY X 1-1/4" OUTLET	9340853	NON STOCK
	1" CST SERVASET X 1" OUTLET	9322627	NON STOCK
	1" CTS HIGH DENSITY .090" WALL X 1" IPS STEEL OUTLET	NON STOCK	9316405
	½" CTS .090" WALL PERFECTION END X ½" NPT STEEL	NON STOCK	9310295
	1-1/4" CTS .090" WALL PERFECTION END X 1-1/4" NPT STEEL	NON STOCK	9306180
	OR TEST CAPS WITH STEEL OR PLASTIC PIPE TO TEST TREE	9381846 OR TOOL	TOOL ROOM
	TEST CAP FOR CENTRAL PLASTIC ELECTROFUSE TAPPING TEE	ROOM ITEM	ITEM
7	**FLANGE 150# WELD END FLAT FACE**		
	2"	9341058 2"	9314322
	3"	9341388 3"	9314431
	4"	9340588 4"	9314430
	6"	9341084 6"	9308659
	8"	9341015 8"	9308748
	12"	9340979 12"	9308660
	16"	9322363 MA 16"	NON STOCK
	20"	9322362 MA 20"	NON STOCK
8	**BLIND FLANGE CLASS 150# ASTM A-105**		
	2" FLAT FACE WITH ½" CENTER NPT TAP	9341434 2"	NON STOCK
	3" FLAT FACE WITH ½" CENTER NPT TAP	9341014 3"	NON STOCK
	4" FLAT FACE WITH ½" CENTER NPT TAP	9341435 4"	NON STOCK
	6" FLAT FACE WITH ½" CENTER NPT TAP	9340942 6"	NON STOCK
	2" FLAT FACE	9382074 2"	9308662
	3" FLAT FACE	9385763 3"	9307751
	4" FLAT FACE	9385775 4"	9306252
	6" FLAT FACE	9385747 6"	9306518
	8" FLAT FACE	9341083 8"	9307750
	12" FLAT FACE	9340587 12"	9308749
9	**GASKETS**	-	-
	2" FULL FACE 150#	9333167 2"	9315688
	3" FULL FACE 150#	9341158 3"	9312067
	4" FULL FACE 150#	9341159 4"	9312569
	6" FULL FACE 150#	9332599 6"	9312568
	8" FULL FACE 150#	9341168 8"	9315689
	12" RING TYPE 150#	9341165 12"	NON STOCK

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ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA / NYC	PEOPLESOFT ITEM RI AND UNY
10	**END CAPS – STEEL WELD END STANDARD WALL –GRADE B**		
	2"	9339531 2"	9312095
	3"	9339528 3"	9308719
	4"	9339529 4"	9312096
	6"	9339532 6"	9312094
	8"	9339524 8"	9312093
	10"	9339686 10"	9315182
	12"	9339734 12"	9312092
	16"	9339533 16"	9314824
	20"	9339687 20"	9314823
11	**THOR FITTING**	-	-
	½" MALE NPT X HOSE CONNECTION	9353292	NON STOCK
	¾" FEMLAE X HOSE CONNECTION	9353311	NON STOCK
12	**THRED-O-LET**	-	-
	12" – 8" X ¾" 3000# PER ASTM A-105 GRADE B	9341652 12-6X3/4	NON STOCK
	10" – 6" X 1" 3000# PER ASTM A-105 GRADE B	9341658 10-6X1	NON STOCK
	36" – 12" X 1" 3000# PER ASTM A-105 GRADE B	9342052 36-12X1	NON STOCK
	2" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307678 2X1
	10" – 6" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307695 10-6X1
	36"-14" X ½" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307677 36-14X3/4
13	**VALVE**		
13A	**VALVE (OPTIONAL – TO SHUT OFF TEST ASSEMBLY)**		
14	**LUG ASSEMBLY**	-	-
	7/8" x 24" LONG (LI ONLY - SEE MAIN-6210)	9342211	NON STOCK
	7/8"X 44"LONG (LI ONLY - SEE MAIN-6210)	9342212	NON STOCK
	LUG GREEN 3"- 8"MAIN 7/8" DIAM. (NYC ONLY – SEE MAIN-6230 & MAIN-6230)	9357904	9357904
	LUG YELLOW 10"- 30" MAIN 1-1/16" DIAM. (NYC ONLY – SEE MAIN-6230& MAIN-6230)	9357905	9357904
	ROD ⅝" X 12' LONG	9328152	9328251
	ROD 1" X 12' LONG	9328150	9328150
	LUG ASSEMBLY ⅝"X 30" LONG (UNY ONLY)	NON STOCK	9315741
15	**COUPLING – END 2" PERFECTION**	9385024	9315348
16	**TEST CAP**	-	TOOL ROOM
	FOR SADDLE FUSION TEE – CENTRAL PLASTICS	9325109	ITEM
	FOR SADDLE FUSION TEE– JM EAGLE / POLY / UPONOR	9329017	
	FOR SADDLE FUSION TEE – PERFORMANCE PIPE TEES	9341368	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION CENTAL PLASTICS	9384268	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION– JM EAGLE / POLY/ UPONOR	9384174	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION PERFORMANCE PIPE TEES	9323715	
	FOR HVTT ELECTROFUSION TEE	9382494	
	FOR ELECTROFUSION TEE	9381846	
	FOR PERFECTION PMTT MECHANICAL TEE (CAP FITS ALL MAIN SIZE & OUTLET SIZES OF PMTTS)	9339561	

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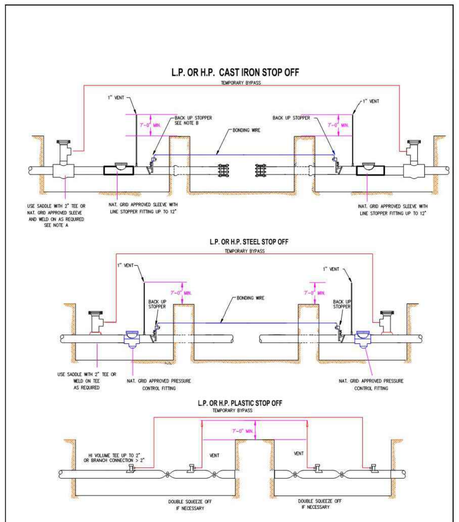


nationalgrid — ALL REGIONS

TEMPORARY BYPASSES ON PLASTIC, CAST IRON OR STEEL MAINS

REVISIONS:

DATE: 05/15/2018 | EFFECTIVE DATE: 05/15/2018
DESIGN: F.B. | STD. DWG. NO. **CS-LIVE002**
DRAWN: P.C.

NOTES:

A. FOR BYPASSES ON THE LP SYSTEM ONLY SCREW TEES AND BAGHOLES MAY BE TAPPED DIRECTLY INTO THE MAIN.

B. BACK UP STOPPERS WILL BE REQUIRED IF INSUFFICIENT STOP OFF CAN BE ACHIEVED OR IF WELDING BETWEEN THE STOPPERS WILL BE REQUIRED.

C. STOP OFF CAN BE PERFORMED USING MUELLER, T.D. WILLIAMSON, KLIESS, BAGS, OR OTHER APPROVED STOP OFF SYSTEMS.

SHT. 2 OF 2 **CS-LIVE002**

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

BL Companies — Architecture Engineering Environmental Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
07/05/24
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
1	ISSUED FOR CONSTRUCTION	07/03/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	12/07/2022	KB	DT	AC

BOSTON GAS COMPANY d/b/a nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

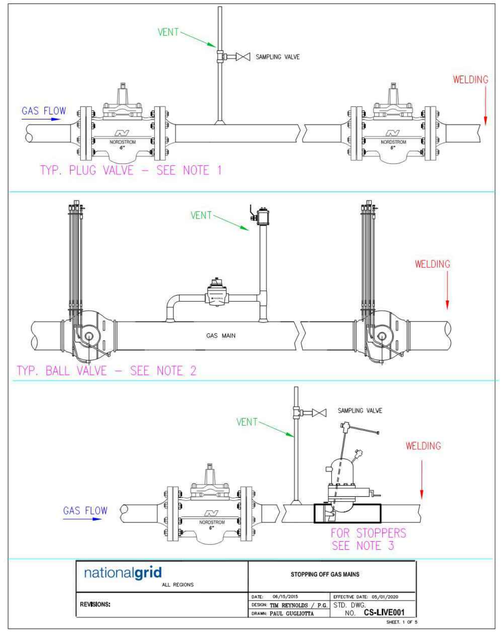
IFC

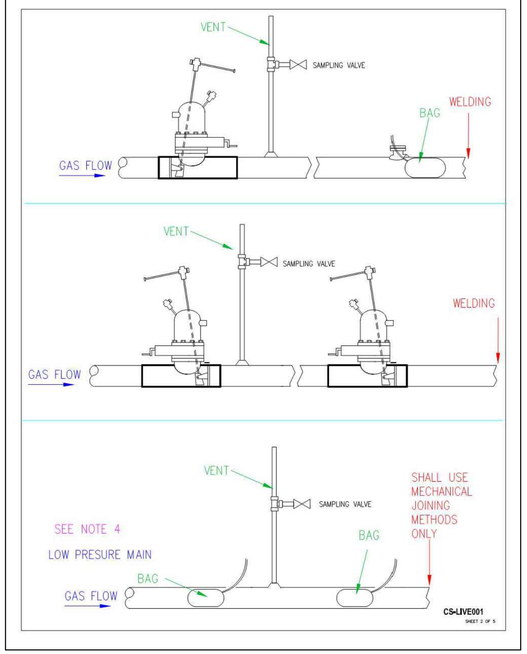
PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

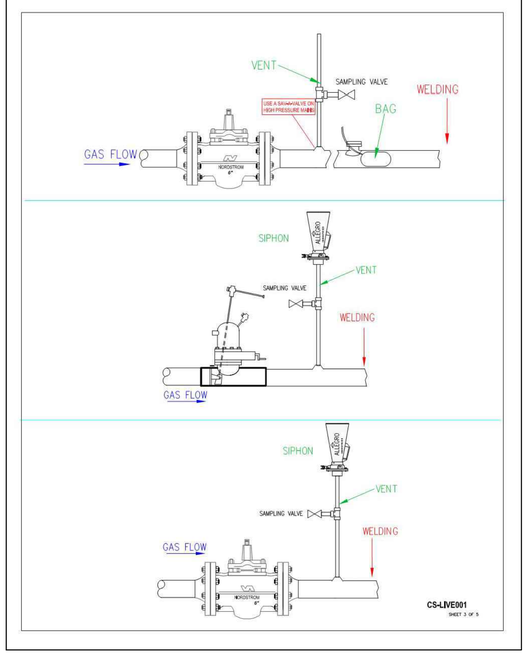
MISCELLANEOUS DETAIL 2 OF 3

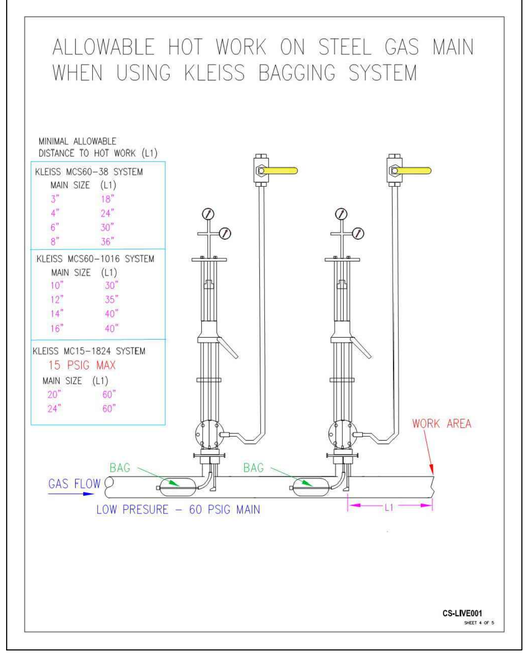
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON – 1501891–09	C–202









NOTES:

1. PLUG VALVES SHOULD BE GREASED PRIOR TO SHUTTING OFF TO INSURE TIGHT SHUTOFF.
2. USE THE BALL VALVE'S BLOCK AND BLEED AND / OR PURGE ASSEMBLY IF AVAILABLE TO VENT GAS BETWEEN THE TWO CLOSED VALVES.
3. REFER TO MANUFACTURER'S LITERATURE FOR PRESSURE LIMITS OF STOPPERS AND DRILLING EQUIPMENT.
4. WELDING SHALL NOT BE PERFORMED AGAINST A BAG WHERE THE BAG IS USED AS THE PRIMARY MEANS OF STOPPING THE GAS FLOW. SEE STOP-OFF OPERATIONS ON LOW PRESSURE MAINS [CNST-03002].

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

BL Companies
Architecture
Engineering
Environmental
Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
07/08/24
Andrew J. Cavallo
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
1	ISSUED FOR CONSTRUCTION	07/03/2024	TA	TA	AC
0	ISSUED FOR CONSTRUCTION	12/07/2022	KB	DT	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN RELAY
2" MDPE (60 PSIG)
POND ST
CONCORD, MA

MISCELLANEOUS DETAIL 3 OF 3

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	T. ATKIN	A. CAVALLO	07/03/2024	DISTRIBUTION	1501891

DRAWING NO.	SHEET NO.
CON – 1501891–10	C–203

TOWN OF CONCORD
SELECT BOARD
PUBLIC HEARING NOTICE

Notice is hereby given that a Public Hearing will be held at the Town House in the Select Board Meeting Room, 22 Monument Square, Concord, MA on Tuesday, May 27, 2025 at 6:00 PM, upon the petition of National Grid to request your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the Town of Concord and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

As part of the BSMNRPL program, National Grid recommends the relay of:

approximately 425 feet of 2 -inch, 60 Coated Steel (1930) with approximately 425 feet of 2- inch, Plastic in Pond St from existing 4-inch, 60 Coated Steel (1930) in Laws Brook Rd to end of main at #46 Pond St, and the installation of approximately 25 feet of 2- inch, Plastic off Pond St to existing 2- inch, Plastic main installed in right of way between Pond St and Sunnyside Ln

The petition was filed with the Select Board on March 21, 2025. **Please review the Select Board meeting agenda at www.concordma.gov to confirm the exact timing of the Hearing.** Questions on this matter should be directed to **Mary Mulroney, Permit Representative for National Grid**, at Mary.Mulroney@nationalgrid.com.

By Order of the Select Board

Mark Howell, Clerk

CONCORD PUBLIC WORKS
ENGINEERING DIVISION

133 Keyes Road
Concord, MA 01742

Tel: 978 - 318 - 3210
Fax: 978 - 318 - 3245

DATE: 4/24/2025

MEMORANDUM

TO: **Shannon McAndrew, Management Specialist**
VIA: **Kerry Lafleur, Town Manager**
VIA: **Alan Cathcart, Director of Public Works**
FROM: **Stephen Dookran PE, Town Engineer**
PREPARED BY: Justin Richardson, PE, Assistant Town Engineer
SUBJECT: **Petition by National Grid to replace multiple gas mains in Main Street, Cottage Street, Old Bridge Road, Crest Street and Bridgecourt Lane. The entirety of the work is described in the memo.**

This memorandum is to provide comments to the Select Board on the petition for a Grant of Location (GOL) on Main Street, Cottage Street, Old Bridge Road, Crest Street and Bridgecourt Lane filed by National Grid. Concord Public Works (CPW) Engineering Division has reviewed the attached Grant of Location petition with a date of September 04, 2024, with the proposed plans having a most recent revision date of August 22, 2024, from National Grid's designer, The DDS Companies. The proposed work is located in the Main Street, Cottage Street, Old Bridge Road, Crest Street and Bridgecourt Lane public rights-of-way (ROW) and includes the following:

- relay of approximately 400 feet of 4-inch, Coated Steel, approximately 25 feet of 2-inch, Coated Steel (1960), and approximately 10 feet of 4-inch Plastic (2020, 2022) with approximately 435 feet of 8-inch, Plastic from the existing 4-inch Coated Steel (1930) at #1151 Main St to the existing 4-inch, Coated Steel (1930) at #1112 Main St,
- relay of approximately 50 feet of 4-inch, Coated Steel (1930) and approximately 10 feet of 4-inch, Plastic (2019) with approximately 30 feet of 8-inch, Plastic in from Main St, then approximately 30 feet of 12-inch, Plastic to the existing 4-inch, Coated Steel (1930) at #7 Cottage St (Note: regulator station in scope),
- relay of approximately 35 feet of 4-inch, Coated Steel (1962) with approximately 35 feet of 8-inch, Plastic in Cottage St from the existing 8-inch, Coated Steel (1948) in Main St to #7 Cottage St (tie into the 12-inch, Plastic being installed to replace the 4-inch, Coated Steel (1930),
- relay of approximately 80 feet of 2-inch, Coated Steel (1930) with approximately 80 feet of 2-inch, Plastic in Crest St from Main St to the existing 2-inch, Coated Steel (1930) at #10 Crest St,
- abandonment of approximately 840 feet of 2- inch, Coated Steel (1930) in Old Bridge Rd from Crest St to #92 Old Bridge Rd. Transfer all services to the existing parallel 8- inch, Coated Steel (1948),
- installation of approximately 10 feet of 2- inch, Plastic at #92 Old Bridge Rd to tie the existing 2- inch, Coated Steel (1930) into the existing parallel 8- inch, Coated Steel (1948), and
- relay of approximately 15 feet of 2- inch, Plastic (1999) with approximately 25 feet of 2- inch, Plastic at the intersection of Old Bridge Rd and Bridgecourt Ln.

National Grid informed CPW that this increase to the size of the gas mains is f or reliability for the Concord Resident in National Grid's distribution system. As a result of the

Engineering Division's review, CPW asks that if the Select Board approves the petition, the following understandings, conditions and recommendations are made part of the approval:

1. **Grant of Location Expiration.** This Grant of Location (GOL) will expire on August 31, 2025. National Grid must complete all its work proposed in this petition by that date to allow the Town to commence construction of its intersection redesign project at the intersection of Main Street, Baker Avene, Cottage Street, Old Bridge Road, and Crest Street. If National Grid determines that they cannot complete their work by the August 31, 2025 date, National Grid may withdraw this petition so that the Town can complete its project work.

2. **Compliance with Applicable Laws.** National Grid shall comply with all Massachusetts State laws and requirements with respect to the replacement and/or removal of gas mains.

3. **Failures due to Abandoned Gas Main and Services.** Should any issue, including but not limited to roadway settlement or collapse, gas leakage, groundwater, or storm water interference, etc. arise because of National Grid's abandoned mains, services, appurtenances or associated trenches, National Grid shall promptly respond to make all necessary repairs to the affected area as required by the road restoration standards set forth in D.T.E. 98-22. Failure to do so may result in a revocation, delay, or denial of any pending or future GOLs applied for by National Grid.

4. **Conflicts with Abandoned Gas Mains.** If any of National Grid's abandoned mains, including the main to be abandoned under this petition for a GOL, present conflicts with future improvements to the public street infrastructure including but not limited to sidewalk, drainage or public utilities, National Grid will work with the Town to minimize the impacts of these conflicts including potentially using National Grid's resources to help with the following: (1) confirming or identifying the location of the mains (that may not be identified by Dig Safe), (2) confirming that the main has no residual gas, and (3) working with the Town to remove any obstructing facilities. Failure to do so may result in the revocation, delay or denial of any existing, pending or future GOLs applied for by National Grid. A National Grid representative shall attend pre-construction meetings related to Town projects and other construction meetings as needed to provide information necessary to minimize conflicts with live and abandoned gas infrastructure.

5. **Right of Way Permit** – A right-of-way (ROW) permit issued by CPW Engineering is required to perform work in the public street. CPW Engineering reserves the right to

add and/or adjust permit stipulations related to construction standards, work quality, work site maintenance, schedule adjustments, etc. when these become necessary to address new information and conditions related to the project or project site. All work shall be performed in compliance with the conditions of this memorandum and D.T.E. 98-22. If any provision of this GOL is inconsistent with the standards set forth in D.T.E. 98-22, the Town and National Grid agree that National Grid shall be required to comply with all standards in D.T.E. 98-22.

6. **Traffic Control Plan** – As part of the ROW permit a traffic mitigation plan meeting the Manual of Uniform Control Traffic Devices (MUTCD) shall be submitted to the Concord Police Department (CPD) Traffic Safety Officer and CPW Engineering. It appears from the plan provided that the work will require, at a minimum, partial closing of the roadway and potentially pedestrian paths. A sketch shall be provided detailing how the anticipated vehicular and pedestrian movements will be managed for the duration of the project. The construction hours shall be in conformance with the requirements of the ROW permit, and any changes to work hours and significant deviations from the traffic control plan shall be approved by CPD and the Town Engineer. The roadway and sidewalk shall be secured at the end of each workday to ensure safe and adequate passage. The temporary pedestrian route shall conform to ADA regulations. Work shall not commence until the review and approval of the traffic mitigation plan are completed.

7. **Tree Protection** – Contractors shall adhere to the CPW Construction and Tree Protection Standard Operating Procedures including the protection of public shade trees: "No person may plant, trim, cut, or remove a public shade tree without the prior permission of the Tree Warden and Engineering Division. This control includes the cutting of roots during construction." The contractor shall be responsible for installing wooden tree guards with orange snow fencing on public shade trees located within the work zone.

8. **Construction Notifications** – National Grid shall notify emergency services, the school district, the post office, and CPW Solid Waste for trash pickup services via email one week prior to the start of construction. National Grid shall also notify neighborhood residents and businesses two weeks prior to the start of construction via certified mail or door hanger notifications. Additionally, National Grid is required to give prior notice to CPW Engineering regarding daily work in the ROW as specified in the ROW permit.

9. **Preconstruction Meeting** - National Grid shall schedule a preconstruction meeting with all pertinent Town divisions, other utility companies and stakeholders two weeks prior to the commencement of construction. National Grid shall also schedule a neighborhood meeting for residents and/or businesses immediately adjacent to the project, where National Grid shall answer questions related to the construction.

10. **Separation from Existing Utilities in Roadway and Excavation Requirements** - National Grid shall maintain the following minimum offsets from existing infrastructure with its new mains.
    - Minimum of 3' from all other existing utilities and utility structures
    - Minimum of 1' vertical separation to any utility crossing

    Vacuum truck-excavated test pitting, extending 12" below depth of proposed gas main, shall be conducted at all proposed gas main crossings of the force and gravity sewer to ensure adequate separation. All storm drainage, water main, sewer main, sewer force main and service crossings shall be vacuum truck excavated in the area of the crossings. National Grid or their subcontractor shall notify CPW Engineering and respective utility owners of all anticipated utility crossings 24 hours in advance of the excavation.

11. **Trenching, Patching, and Pavement Restoration** – National Grid must backfill the trench with suitable material, in 6-inch lifts, and compact with mechanical vibratory devices such as vibratory roller, plates, or rammer (pogo stick). Suitable backfill material will mean an imported product meeting the gradation specification for MassDOT M1.03.1 Processed Gravel for sub-base. The gravel material delivered must pass a three (3) inch square mesh sieve and shall not contain frozen material. National Grid or its subcontractor must submit material data sheets to the Engineering Division prior to commencing work. No work shall commence until Engineering has completed its review of the material data sheet. National Grid shall have a Geotechnical Engineer certify that the material inside the trench and the compaction of the material meets Town of Concord Design and Construction Standards. The material data and the Geotechnical Engineer certification can be omitted if National Grid provides the Town with a five-year warranty for the pavement in the area of their trench.

    The patch shall be considered temporary until the Town completes the final repaving of Main Street, Cottage Lane, Old Bridge Road and Crest Street in the Town's intersection project area. During this period any settlement or delamination of pavement within the patch or unacceptable deterioration of adjacent pavement caused by the construction shall be rectified by National Grid or its subcontractors within two days of notice of defect. Asphalt binder, a minimum of 5.5-inches or existing depth, whichever is greater, patching shall be placed in the Main Street and Cottage Street trenches compacted in two lifts at all trenched locations and a minimum of 4.5-inches or existing depth, whichever is greater, patching shall be placed in the Old Bridge Road, and Crest Street trenches compacted in two lifts. This will all be in preparation for a mill and overlay of the area by the Town's project.

    For Main Street approximately 80 feet west of the intersection project limit, National Grid shall perform a full-width (curb to curb) mill and overlay. This area was originally scheduled for pavement rehabilitation in Spring 2025 as part of the paving of Main Street under the Town's annual paving but is being omitted to accommodate National Grid's utility work. The restoration shall match the work the Town had planned.

For other trenches outside of the intersection project – Old Bridge Road and Bridgecourt Lane, asphalt patching minimum of 4.5-inches or existing depth, whichever is greater, shall be placed and compacted in two lifts (minimum 2.5" binder and 2" top course). The limits of this work shall be determined and agreed upon by National Grid and the Town during a field visit prior to the issuance of the ROW permit. At a minimum there shall be a 1.5-inch mill and overlay of one travel lane width (curb or edge of pavement to centerline) where the gas trench is located or 1.5-inch, 10-feet wide, mill an overlay on each side of the trench that crosses one lane or both lanes of roadway in an isolated location.

Unless National Grid opts to give a five-year warranty in lieu of geotechnical requirements mentioned above, they will provide a two-year warranty for all paving mentioned above to ensure that no issues arise as a result of the gas main trenching on these streets with good to excellent pavement condition.

12. **Trench Plates** – All work from this project must be performed during the normal construction season, April 1st to the middle of November. CPW understands that work can potentially be performed during an unseasonal winter snow events, but during this time no steel plates will be permitted to secure trenches. If the use of steel plates becomes absolutely necessary because of a critical change in the work plan, CPW shall be immediately notified, and the installation of the plates will strictly follow the requirements to allow safe and proper snow removal. National Grid will be held liable for any incidents due to inadequate removal of snow and ice in the work area related to improperly installed trench plates and/or obstructions caused by their work in the work area. The plates shall be in place for no more than 24 hours or the duration of a snow or ice event. They shall be monitored to make sure they remain secure. Use of Plates during the Town's regular ROW Permit season shall strictly conform to the requirements in the ROW Permit.

13. **As-Built Plans** – An as-built plan of the new main and all appurtenances as well as a record drawing of the Abandoned Main and all its appurtenances shall be provided to CPW Engineering prior to the final closeout of the ROW Permit.

PETITION OF NATIONAL GRID FOR GAS MAIN LOCATIONS

Town of Concord / Board of Selectmen:

The Nationalgrid hereby respectfully requests your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the **Town of Concord** and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

As part of the BSMNRPL program, Nationalgrid recommends the relay of:
relay of approximately 400 feet of 4- inch, Coated Steel approximately 25 feet of 2- inch, Coated Steel (1960), and approximately 10 feet of 4- inch Plastic (2020, 2022) with approximately 435 feet of 8- inch, Plastic in Main St from the existing 4-inch Coated Steel (1930) at #1151 Main St to the existing 4- inch, Coated Steel (1930) at #1112 Main St,
relay of approximately 50 feet of 4 -inch, Coated Steel (1930) and approximately 10 feet of 4- inch, Plastic (2019) with approximately 30 feet of 8- inch, Plastic in Cottage St from Main St, then approximately 30 feet of 12- inch, Plastic to the existing 4- inch, Coated Steel (1930) at #7 Cottage St (Note: regulator station in scope),
relay of approximately 35 feet of 4- inch, Coated Steel (1962) with approximately 35 feet of 8- inch, Plastic in Cottage St from the existing 8- inch, Coated Steel (1948) in Main St to #7 Cottage St (tie into the 12-inch, Plastic being installed to replace the 4- inch, Coated Steel (1930),
relay of approximately 80 feet of 2- inch, Coated Steel (1930) with approximately 80 feet of 2- inch, Plastic in Crest St from Main St to the existing 2- inch, Coated Steel (1930) at #10 Crest St,
abandonment of approximately 840 feet of 2- inch, Coated Steel (1930) in Old Bridge Rd from Crest St to #92 Old Bridge Rd. Transfer all services to the existing parallel 8- inch, Coated Steel (1948),
installation of approximately 10 feet of 2- inch, Plastic at #92 Old Bridge Rd to tie the existing 2- inch, Coated Steel (1930) into the existing parallel 8- inch, Coated Steel (1948), and
relay of approximately 15 feet of 2- inch, Plastic (1999) with approximately 25 feet of 2- inch, Plastic at the intersection of Old Bridge Rd and Bridgecourt Ln.

Date: **March 21, 2025**

By: Mary Mulroney
Mary Mulroney
Permit Representative

Town of Concord / Board of Selectmen:

IT IS HEREBY ORDERED that the locations of the mains of the Nationalgrid for the transmission and distribution of gas in and under the public streets, lanes, highways and places of the **Town of Concord** substantially as described in the petition date **March 21, 2025** attached hereto and hereby made a part hereof, and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and/or accomplish the objects of said Company, and the digging up and opening the ground to lay or place same, are hereby consented to and approved.

The said Nationalgrid shall comply with all applicable provisions of law and ordinances of the **Town of Concord** applicable to the enjoyment of said locations and rights.

Date this _____ day of _____, 20____.

I hereby certify that the foregoing order was duly adopted by the _____ of the City of _____, MA on the _____ day of _____, 20____.

By: _____

_____
Title

WO #1509788

RETURN ORIGINAL TO THE PERMIT SECTION
NATIONAL GRID
170 DATA DRIVE, WALTHAM, MA 02451
RETAIN DUPLICATE FOR YOUR RECORDS

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BAKER AVE
MAIN ST
MAIN ST
MAIN ST
SPARTAN DR
STAFFORDSHIRE LN
COTTAGE ST
CREST ST
OLD BRIDGE RD
HARNESS LN
SADDLE RD
BRIDGECOURT LN
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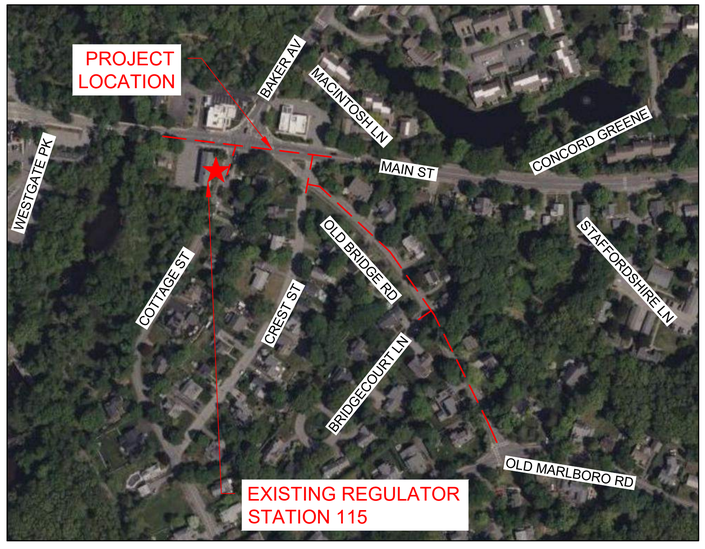
This map was created by Concord GIS. The information is provided as a reasonably accurate point of reference, but is not intended to represent authoritative location, and is not to be used for conveyances. The Town of Concord shall not be held responsible for the accuracy or misuse of these data.
Town Boundary - State Sur
Address Numbers
Tax Map Parcel ID Labels
Buildings (ft)
Parcel Polygons
MA Highways
Interstate
US Highway
Numbered Routes
MBTA Commuter Rail Stati
Railroad
Streams
Streets Area
Rivers & Ponds
0
200
400 ft
Printed on 05/12/2025 at 12:57 PM
21-92 Old Bridge Rd.

21 - 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST GAS MAIN REPLACEMENT
2" & 4" CS & 2" & 4" PL TO 2", 8" & 12" PL (60 PSIG)
(21 - 92) OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN, CONCORD, MA
W.O. NO.: 1509788

PROJECT WITHIN 200 FEET OF REGULATOR STATION 115

PIPE TOTALS			
DIAMETER	MATERIAL	ABANDONED	INSTALLED
2"	CS	945 LF	--
2"	PL	15 LF	115 LF
4"	CS	485 LF	--
4"	PL	20 LF	--
8"	PL	--	500 LF
12"	PL	--	30 LF



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LOCATION MAP

LAT/LON: 42°27'18.6"N, 71°23'13.3"W
CONCORD, MA
SCALE: 1:200

INDEX OF SHEETS		
SHEET	NAME	TITLE
1	G-001	COVER - LOCATION MAP
2	G-002	CONSTRUCTION NOTES
3	G-003	CONSTRUCTION NOTES & BILL OF MATERIALS
4	C-001	OVERALL SCOPE OF WORK
5	C-002	MAIN ST - LAYOUT & PROFILE
6	C-003	COTTAGE ST - LAYOUT & PROFILE
7	C-004	CREST ST - LAYOUT & PROFILE
8	C-005	OLD BRIDGE RD - LAYOUT
9	C-006	BRIDGECOURT LN - LAYOUT & PROFILE
10	C-007	OLD BRIDGE RD - LAYOUT
11	C-008	OLD BRIDGE RD - LAYOUT & PROFILE
12	C-101	TIE-IN & ABANDONMENT DETAILS
13	C-102	TIE-IN & ABANDONMENT DETAILS
14	C-103	TIE-IN & ABANDONMENT DETAILS
15	C-201	STANDARD DETAILS
16	C-202	STANDARD DETAILS
17	C-203	STANDARD DETAILS
18	C-204	STANDARD DETAILS
19	C-205	STANDARD DETAILS
20	C-206	REGULATOR STATION FLOW DIAGRAM

811 DigSafe MA·ME·NH·RI·VT

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP: COMMONWEALTH OF MASSACHUSETTS — MARK E. PETROSKI — 7/22/2024 — CIVIL — NO. 54037 — REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

COVER - LOCATION MAP

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
G-001	01

SCOPE OF WORK:

NATIONAL GRID WORK ORDER NUMBER: 1509788
21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST, CONCORD, MA
AS PART OF THE BSMNRPL PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE:

- RELAY OF APRX 400 FEET OF 4 INCH, 60 PSIG COATED STEEL (1930 – NCON0000), APRX 25 FEET OF 2 INCH, 60 PSIG COATED STEEL (1960 – GOPB506), AND APRX 10 FEET OF 4 INCH, 60 PSIG PLASTIC (2020, 2022) WITH APRX 435 FEET OF 8 INCH, 60 PSIG PLASTIC IN MAIN ST FROM THE EXISTING 4 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) AT #1151 MAIN ST TO THE EXISTING 4 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) AT #1112 MAIN ST,
- RELAY OF APRX 50 FEET OF 4 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) AND APRX 10 FEET OF 4 INCH, 60 PSIG PLASTIC (2019) WITH APRX 30 FEET OF 8 INCH, 60 PSIG PLASTIC IN COTTAGE ST FROM MAIN ST, THEN APRX 30 FEET OF 12 INCH, 60 PSIG PLASTIC TO THE EXISTING 4 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) AT #7 COTTAGE ST (NOTE: REGULATOR STATION IN SCOPE),
- RELAY OF APRX 35 FEET OF 4 INCH, 60 PSIG COATED STEEL (1962 – NCON0000) WITH APRX 35 FEET OF 8 INCH, 60 PSIG PLASTIC IN COTTAGE ST FROM THE EXISTING 8 INCH, 60 PSIG COATED STEEL (1948 – ICON0066) IN MAIN ST TO #7 COTTAGE ST (TIE INTO THE 12 INCH, 60 PSIG PLASTIC BEING INSTALLED TO REPLACE THE 4 INCH, 60 PSIG COATED STEEL (1930 – NCON0000)),
- RELAY OF APRX 80 FEET OF 2 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) WITH APRX 80 FEET OF 2 INCH, 60 PSIG PLASTIC IN CREST ST FROM MAIN ST TO THE EXISTING 2 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) AT #10 CREST ST,
- ABANDONMENT OF APRX 840 FEET OF 2 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) IN OLD BRIDGE RD FROM CREST ST TO #92 OLD BRIDGE RD. TRANSFER ALL SERVICES TO THE EXISTING PARALLEL 8 INCH, 60 PSIG COATED STEEL (1948 – ICON0066),
- INSTALLATION OF APRX 10 FEET OF 2 INCH, 60 PSIG PLASTIC AT #92 OLD BRIDGE RD TO TIE THE EXISTING 2 INCH, 60 PSIG COATED STEEL (1930 – NCON0000) INTO THE EXISTING PARALLEL 8 INCH, 60 PSIG COATED STEEL (1948 – ICON0066), AND
- RELAY OF APRX 15 FEET OF 2 INCH, 60 PSIG PLASTIC (1999) WITH APRX 25 FEET OF 2 INCH, 60 PSIG PLASTIC AT THE INTERSECTION OF OLD BRIDGE RD AND BRIDGECOURT LN.

NOTE: COTTAGE ST @ MAIN ST 60 PSIG REGUALTOR STATION TO BE REPLACED FY 26 (WO#90000229492)

GENERAL CONSTRUCTION:

1. NO FIELD CHANGES SHALL BE MADE TO THIS PLAN WITHOUT APPROVAL OF ASSIGNED NATIONAL GRID ENGINEER.
   A. ENGINEER: ANTHONY DELLACAMERA
   B. PHONE: (781) 856–7274
   C. EMAIL: ANTHONY.DELLACAMERA2@NATIONALGRID.COM
2. NEW MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL TRENCH DETAIL INCLUDED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.
   A. 36 INCHES OF COVER FROM FINAL GRADE WHERE PRACTICAL
   B. STATE HIGHWAY MINIMUM COVER: 36 INCHES
   C. DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
   D. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
   E. CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.
3. SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.
   A. MINIMUM IN PUBLIC ROW: 18 INCHES
   B. MINIMUM IN PRIVATE PROPERTY: 12 INCHES
   C. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
   D. CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.
4. ALL REQUESTS FOR SHALLOW MAINS AND FITTINGS MUST BE APPROVED PRIOR TO INSTALLATION. PLEASE REFER TO CNST04017, SHALLOW MAINS POLICY (MA ONLY) FOR REQUIREMENTS (24" ON MUNICIPAL ROADS, 36" ON ROADS UNDER MASSDOT JURISDICTION) AND GUIDANCE WHEN ENCOUNTERING FIELD CONDITIONS THAT MAY LEAD TO INSTALLING A SHALLOW DISTRIBUTION MAIN OR FITTING. PLEASE REFER TO CNST–6030–MA–RI FOR THE PROPER INSTALLATION OF PROTECTIVE STEEL PLATES. CONTACT GAS PIPELINE SAFETY & COMPLIANCE TO OBTAIN DPU APPROVAL:
   A. LIEN MOOREHEAD – (617) 438–9069
   B. JASON BARON – (351) 666–9082
   C. IF A PROPOSED TOP TEE CONNECTION RESULTS IN A SHALLOW MAIN THAT CANNOT MEET THE WAIVER CRITERIA, A FULL TEE CONNECTION IS AN ACCEPTABLE ALTERNATIVE. A SPHERICAL TEE IS ONLY ACCEPTABLE WITH APPROVAL FROM NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.
5. ALL MAINS SHOULD BE INSTALLED WITH A CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.
   A. DISTRIBUTION MINIMUM CLEARANCE: 6 INCHES
   B. APPROPRIATE PROTECTIVE MEASURES SHALL BE USED TO PROTECT THE GAS FACILITY IF MINIMUMS CANNOT BE ATTAINED. APPROVAL IS REQUIRED BY GAS SYSTEMS ENGINEERING.
6. THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 3 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE ACTUAL ROUTE AND ALL VERTICAL AND HORIZONTAL OFFSETS ARE TO BE FIELD ROUTED WITHIN THE PUBLIC RIGHT–OF–WAY BASED ON THE ACTUAL LOCATION OF EXISTING UTILITIES. ADDITIONAL FITTINGS NOT SHOWN WILL BE REQUIRED.
7. VALVES DEPICTED IN THE DESIGN ARE THE MINIMUM REQUIRED FOR SECTIONALIZING, ISOLATION, CRITICAL VALVES, AND/OR TO ACCOMMODATE TIE–INS. ADDITIONAL FULL PORT VALVES MAY BE ADDED TO ACCOMMODATE CONSTRUCTION.
   A. VALVES FOR BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.
8. ELECTROFUSION COUPLINGS MAY BE INTERCHANGED WITH BUTT FUSION WHERE APPLICABLE.
9. TIE–IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY:
   A. REGULATOR STATION WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE–IN LOCATION.
   B. CHANGE TO THE NUMBER OF CONNECTIONS (ADDITIONAL ADDED FROM AN INTERSECTION OR OTHERWISE).
   C. MATERIAL/SIZE CHANGE AT NEW LOCATION.
10. NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.
11. WHEN CONNECTING NEW 'DEAD' MAIN TO NEW 'DEAD' MAIN, ALL CONNECTIONS SHALL BE MADE USING AN INLINE TEE, UNLESS OTHERWISE NOTED. PRIOR TO INSTALLATION, ANY FIELD CHANGE IN CONNECTION TYPE ON 'DEAD' MAIN SHALL BE REVIEWED AND APPROVED BY ENGINEERING.
12. THE LIVE MAIN CONNECTION DETAIL SHOWN IN THE DRAWINGS SHALL BE FOLLOWED. ANY CHANGES TO THE TIE IN CONNECTION TYPE SHALL BE APPROVED BY THE NATIONAL GRID ENGINEER PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL CALL DIG–SAFE (DIAL 811) OR 888–344–7233 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED.
14. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHYSICALLY LOCATE ON–SITE UTILITIES THROUGH TEST PIT EXCAVATION OF SAID UTILITIES W/ PRIOR AUTHORIZATION FROM UTILITY OWNER.
15. NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR STATION.
16. PIPE AND FITTING QUANTITY DESCRIBED IN SCOPE MAY VARY FROM AMOUNTS SHOWN ON THE BILL OF MATERIALS TO ACCOMMODATE FIELD CONDITIONS AND CONSTRUCTION.
17. CONTRACTOR TO REFER TO NATIONAL GRID SERVICE RECORD INFORMATION, ASSOCIATED CONSTRUCTION STANDARDS AND NATIONAL GRID INSTRUCTION FOR ALL SERVICE WORK WITHIN THE SCOPE OF LIMITS OF THIS PROJECT.
18. ANY FITTINGS (SUCH AS BUT NOT LIMITED TO, PURGES, VENTS & GAUGES) WHICH ARE REPRESENTED ON THESE PLANS AND DETAILS WITHOUT AN ASSOCIATED PART ON THE BILL OF MATERIALS ARE TO BE SIZED AND SELECTED PER CURRENT NATIONAL GRID STANDARDS BY THE CONTRACTOR.
19. DIMENSIONS SHOWN ILLUSTRATE THE INTENT OF MAIN PLACEMENT. SLIGHT VARIATIONS ARE EXPECTED. ANY SIGNIFICANT CHANGE NEEDS TO BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO PLACEMENT.
20. CONTRACTOR TO VERIFY PRESSURE AND GAS FEED DIRECTION OF EXISTING MAINS, NEW MAINS, AND MAINS TO BE ABANDONED PRIOR TO ANY AND ALL TIE INS BEING PERFORMED.
21. LOCATION OF ANY IDENTIFIED UNDERGROUND UTILITIES IS APPROXIMATE ONLY, AND IS NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATION, ETC.
22. THE CONTRACTOR SHALL PROTECT AND MAINTAIN DIG SAFE FIELD MARKS, ANY EXISTING PROPERTY LINE MONUMENTATION OR OTHER EXISTING SURVEY STAKES OR FIELD MARKS. THE CONTRACTOR SHALL REPLACE AT THEIR EXPENSE ANYTHING DISTURBED OR DESTROYED.
23. THE CONTRACTOR SHALL COMPLETE MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PAVEMENT PATCHING, TRENCH & EQUIPMENT BLOCKING, TREE TRIMMING, ETC.
24. ANY SUBSURFACE UTILITIES, STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE SHOWN ON THESE PLANS HAVE BEEN PLACED BASED ON AVAILABLE RECORD MAPPING, AERIAL IMAGERY AND OTHER DESIGN RESOURCES. CONTRACTOR IS WARNED THAT EXACT OR APPROXIMATE LOCATION OF SUBSURFACE UTILITIES, STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE IN THE PROJECT AREA MAY DIFFER FROM THAT SHOWN OR MAY NOT BE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO PERFORM FIELD VERIFICATION PRIOR TO EXECUTING ANY WORK.
25. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST NATIONAL GRID, APPLICABLE STATE DOT AND LOCAL MUNICIPAL STANDARDS.
26. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
27. ALL NECESSARY PRECAUTION FOR THE SAFETY OF THE PUBLIC SHALL BE TAKEN. ALL BARRIERS, WARNING LIGHTS AND OTHER DEVICES AND EQUIPMENT REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES SHALL BE MAINTAINED.
28. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO ALL OTHER EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
29. CONTRACTOR MAY INSTALL ADDITIONAL VALVES NOT SHOWN IN THE PLANS IF DEEMED NECESSARY IN THE FIELD. NEW VALVES ASSOCIATED WITH TIE INS (SEE DETAILS ON SHEET 12, 13, & 14) MUST BE INSTALLED PER THE DETAIL. FINAL LOCATION OF THE NEW VALVES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ANY SIGNIFICANT CHANGE MUST BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO INSTALLATION.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUAINTING WITH THE CONDITIONS FOR THE SITE AND FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST TO SUCCESSFULLY PERFORM THE WORK.
31. NATIONAL GRID RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY NATIONAL GRID.

DESIGN CRITERIA:

1. DESIGN IN ACCORDANCE WITH THE FOLLOWING:
   A. ENG04001: DESIGN OF DISTRIBUTION MAINS
   B. ENG04003: MAOP VERIFICATION POLICY FOR PLASTIC GAS DISTRIBUTION NETWORKS
2. PROPOSED PIPING:
   A. DESIGN CLASS LOCATION – 4
   B. NOMINAL SIZE: 2, 8, 12 INCH
   C. MATERIAL: MDPE
   D. MAOP: 60 PSIG
3. PIPE SIZE WAS DESIGNED AND APPROVED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING AND REFERENCED IN THE DESIGN PARAMETERS ON SHEET C–001.
4. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS–LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SERVICE DESIGN CRITERIA:

1. DESIGN IN ACCORDANCE WITH THE FOLLOWING:
   A.ENG02001: DESIGN OF GAS SERVICES
   B.ENG04003: MAOP VERIFICATION POLICY FOR PLASTIC GAS DISTRIBUTION NETWORKS
2. PRIOR TO MAIN ABANDONMENT, THE CONTRACTOR SHALL CONFIRM THAT ALL IMPACTED CUSTOMER SERVICES ARE INSTALLED (E.G., RELAYED, TRANSFERRED, OR INSERTED) ON THE NEW MAIN.
3. WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER–PRESSURE MAIN, AND CONSISTENT WITH ENG04003 (THE POLICY):
   A.SERVICES MAY BE RE–VERIFIED AND TRANSFERRED TO THE NEW MAIN ONLY IF ALL REQUIREMENTS IN THE POLICY ARE MET.
   B.ALL SERVICES THAT ARE ELIGIBLE FOR RE–VERIFICATION AND TRANSFER SHALL BE IDENTIFIED WITHIN THIS PLAN SET ON THE ASSOCIATED ELIGIBLE SERVICE TABLE.
   C.IMPLEMENTATION OF THE POLICY SHALL BE DOCUMENTED PER THE POLICY REQUIREMENTS.
4. WHEN UPRATING, DOWNRATING, OR RELAYING A MAIN WITH A DIFFERENT PRESSURE:
   A.CONSTRUCTION SHALL CONTACT ENGINEERING PRIOR TO INSTALLATION FOR ANY CHANGES TO PROPOSED SERVICE SIZING OR INSTALLATION METHOD.
   B.ALL INSTALLED SERVICES SHALL BE APPROPRIATELY FITTED WITH SERVICE REGULATORS FOR THE NEW OPERATING PRESSURES.
5. FOR NEW OR RETROFITTED METERFITS, SEE 1703 FORM FOR CUSTOMER METERFIT INFORMATION.

PROJECT CONSTRUCTION REQUIREMENTS:

1. PER NATIONAL GRID GAS POLICY DOC# ENG05004, ALL COMPLEX PROJECTS ARE REQUIRED TO PREPARE AN SOP IN ACCORDANCE WITH THE STAMPED PLANS, WHICH MUST BE APPROVED BY A PROFESSIONAL ENGINEER. THE SOP MUST INCLUDE ALL PROPOSED PROJECT SPECIFIC STEPS AND PROCEDURES TO DEFINE AN ADEQUATE SEQUENCE FOR CONSTRUCTION OF THE MAIN.
2. IN ACCORDANCE WITH MASSACHUSETTS 220 CMR 105.00, THE STAMPED SOP IS CONSIDERED PART OF A REQUIRED PROJECT SPECIFIC PACKAGE TO PERFORM ANY COMPLEX PROJECT CONSTRUCTION. THEREFORE, FOR ANY COMPLEX PROJECT CONSTRUCTION WORK, THE CONTRACTOR MUST FOLLOW THE PE STAMPED SOP.
3. IN ADDITION TO THE REQUIREMENTS OF THE COMPLEX PROJECT SOP, THE CONTRACTOR MUST COMPLETE THE FOLLOWING ENUMERATED TASKS, BELOW, AS PART OF THE PROJECT.
   A. ABANDON 2IN, 60# CS MAIN (1930 – NCON0000) AND TRANSFER SERVICES TO EXISTING PARALLEL 8IN, 60# CS MAIN (1948 – ICON0066) IN OLD BRIDGE RD.
   B. PROPOSED 8 INCH PLASTIC BALL VALVE TO REPLACE PRIMARY VALVE CON020H. CONSTRUCTION SUPERVISOR TO NOTIFY VALVE PROGRAM LEAD OF THE REPLACEMENT WHEN CONSTRUCTION IS COMPLETE.
   C. CONSTRUCTION TO CONTACT I&R PRIOR TO WORKING WITHIN 200' OF REGULATOR STATION #115. CONTACT OPERATIONS ENGINEERING, GAS CONTROL, AND I&R FOR POTENTIAL NEED TO SHUT DOWN THE STATION. FIELD VERIFY LOCATION OF ALL CONTROL AND SENSE LINES PRIOR TO STARTING ANY CONSTRUCTION IN THE AREA.
   D. IF SUFFICIENT COVER IS NOT AVAILABLE FOR CONNECTION E AND/OR G, CONTACT ENGINEERING FOR A DESIGN REVISION.
   E. DO NOT ABANDON EXISTING 2 INCH, 60 PSIG COATED STEEL (1930) IN OLD BRIDGE RD UNTIL MC–I AND MC–J ARE COMPLETED.

CODES & STANDARDS

1. WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES IN ADDITION TO NATIONAL GRID GAS POLICIES AND WORK METHODS. WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.
2. ALL REFERENCES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT REVISION AVAILABLE AT THE TIME OF CONSTRUCTION.
3. FEDERAL & STATE:
   A. TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
   B. 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
      100.00 – 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
   C. AMERICAN SOCIETY OF MECHANICAL ENGINEERS
      B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS
   D. 248 CMR 4–7: MA FUEL GAS CODE
4. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:
   A. CNST01003: BACKFILL AND RESTORATION
   B. CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
   C. CNST01006: COMMERCIALLY AVAILABLE SHORING SYSTEMS
   D. CNST02014: ENCAPSULATING CAST IRON JOINTS
   E. CNST03001: SQUEEZE–OFF OPERATIONS
   F. CNST03002: STOP–OFF OPERATIONS ON LOW PRESSURE MAINS
   G. CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES
      a. CNST03006: PURGING OPERATIONS – DIRECT DISPLACEMENT
      b. CNST03007: PURGING OPERATIONS – COMPLETE INERT FILL
      c. CNST03008: PURGING OPERATIONS – SLUG METHOD
   H. CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
   I. CNST04005: INSTALLING STEEL DISTRIBUTION MAINS
   J. CNST04007: FIELD COLD BENDING OF LINE PIPE
   K. CNST04008: INSTALLING PLASTIC MAINS
   L. CNST04011: ABANDONMENT OF MAINS
   M. CNST04012: GROUTING ABANDONED PIPELINES
   N. CNST04030: RAISING MAIN AND SERVICE GATE BOXES
   O. CNST05001: JOINING OF PLASTIC PIPE
   P. CNST5010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING
   Q. DAM01011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND
   R. DAM01015: LOCATE AND MARK–OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES
   S. DAM01016: LOCATE AND MARK–OUT OF UNDERGROUND FACILITIES
   T. GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
   U. GEN01100: OPERATOR QUALIFICATION PLAN
   V. GEN03002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES
   W. GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
   X. INR06002: SUPPLEMENTAL ODORIZATION FOR NEW PIPING
   Y. MECH5010: JOINTS OTHER THAN WELDED
   Z. 030018–CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES
   AA. CNST01001: HORIZONTAL DIRECTIONAL DRILLING
   AB. CNST03011: NO–INTERRUPT SERVICE TRANSFER
   AC. CNST6061: TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES
   AD. MECH6010: CONNECTION OF DISSIMILAR POLYETHYLENE PLASTIC PIPE WITH ELECTROFUSION OR MECHANICAL COUPLING
   AE. CS–CNST002: TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES
5. SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:
   A. CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
   B. CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES
   C. CNST03011: NO–INTERRUPT SERVICE TRANSFER
   D. CNST06002: INSTALLING DISTRIBUTION SERVICES
   E. CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED METER CAPACITIES OVER 1,000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES
   F. CNST06009: METER/SERVICE RELOCATION GUIDELINE
   G. CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
   H. CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE
   I. CS–SERV001: TYPICAL 1/2" SERVICE OUTSIDE SETS
   J. CS–SERV002: TYPICAL 1" SERVICE OUTSIDE SETS
   K. CS–SERV003: TYPICAL 1–1/4" SERVICE OUTSIDE SETS
   L. CS–SERV004: TYPICAL 2" SERVICE
   M. CS–SERV005: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES
   N. CS–SERV009: TYPICAL 1/2" SERVICE INSIDE SETS
   O. CS–SERV010: TYPICAL 1" SERVICE INSIDE SETS
   P. HTAP–6010: NO–INTERRUPT 1 INCH CTS AND 1–1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG MAINS
   Q. SERV–5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE
   R. SERV–6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN – 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL
   S. SERV–6186: HOT TAPPING BRANCH SADDLES OFF 4"–12" LIVE PLASTIC GAS MAIN USING HDPE SUPRAFLOW TEES
   T. VALV6110: 1/2 INCH – 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION
   U. SERV6076: 1–1/4" LP PLASTIC SERVICE WITH 1 AL–250 TC METER
   V. SERV6077: 1–1/4" CTS LP PLASTIC INSERT WITH 1 AL–250 TC EQUIV. METER INSIDE
6. SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION, STANDARD AND/OR APPLICABLE NATIONAL GRID "FITS" REFERENCE.
   A. FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

PRESSURE TESTING:

1. PRESSURE TEST ALL DISTRIBUTION PIPING IN ACCORDANCE WITH:
   A. CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
   B. TEST PRESSURE (MINIMUM): 90 PSIG
   C. TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1 OF CNST04003.
   D. TEST MEDIUM: AIR AND/OR NITROGEN
2. PRESSURE TEST SERVICES IN ACCORDANCE WITH:
   A. CNST06008: PRESSURE TESTING SERVICE LINES

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE:(781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

CONSTRUCTION NOTES

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
G-002	02

WELDING:

1. NATIONAL GRID WELDING GAS POLICIES AND WORK METHODS INCLUDE:
   A. CNST05002: WELDING POLICY
   B. CNST05003: PIPE WELDING SAFETY
   C. CNST05005: WELDING PROCEDURE SPECIFICATIONS
   D. MS–030: WELDING FILLER MATERIALS
2. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL SUBMIT WELDER CERTIFICATION DOCUMENTS FOR EACH OF THE WELDERS EMPLOYED ON THIS PROJECT.
3. WELDING PROCEDURE SPECIFICATIONS REQUIRED:
   A. BUTT WELDS (GROOVE): WPS–SMAW–E6010/7010 (LATEST REVISION)
   B. FILLET WELDS (BRANCH): WPS–SMAW–E6010/7010 (LATEST REVISION)
4. 10% (AT LEAST 1) OF WELDS SHALL BE SUBJECT TO NON–DESTRUCTIVE EXAMINATION (NDE):
   A. BUTT WELDS 2–INCH AND GREATER: 10% RADIOGRAPH
   B. BUTT WELDS < 2–INCHES: 10% MAGNETIC PARTICLE
   C. FILLET WELDS: 10% MAGNETIC PARTICLE
5. FOR EXPOSED MAIN INSTALLED ON A BRIDGE OR BURIED UNDER BRIDGE APPROACH SLABS, 100% OF THE WELDS SHALL BE SUBJECTED TO NDE.
   A. 100% OF BUTT WELDS > 2" SHALL BE RADIOGRAPHED
   B. 100% OF WELDS <= 2" SHALL RECEIVE MAGNETIC PARTICLE TESTING
   C. 100% OF FILLET WELDS SHALL BE MAGNETIC PARTICLE TESTED
6. NDE AND WELD MAP SHALL BE PROVIDED BY SKYTESTING.
7. SKYTESTING SCHEDULING CONTACT:
   A. NAME: WILLIAM (BILL) CLARK
   B. CELL: 704–858–7794
   C. EMAIL: WCLARK@SKYTESTING.COM

CATHODIC PROTECTION:

1. IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:
   A. (CONSTRUCTION) DAVE HALNEN: 781–379–7831
   B. (DESIGN REVIEW) ALANNA GRONDINE: 339–225–5378
   C. (ATMOSPHERIC) ALISSIA APINIAN–MARGIOS: 781–296–7569
2. 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.
3. NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:
   A. COR01100: CORROSION DESIGN CRITERIA
   B. COR02001: APPLICATION OF COATING SYSTEMS
   C. COR02020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
   D. COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION
   E. COR03001: TESTING OF PIPE COATING (JEEP TESTING)
   F. COR04001: INSTALLATION OF MAGNESIUM ANODES
   G. COR04003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
   H. COR04004: INSTALLATION OF WIRE CONNECTIONS
   I. COR04005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
   J. 030031–CS: FACILITY COATING GUIDE
4. CORROSION DESIGN: SEE CONTENTS OF THIS DESIGN FOR CATHODIC PROTECTION REQUIREMENTS.

ENVIRONMENTAL:

1. WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.
2. NATIONAL GRID ENVIRONMENTAL CONTACT:
   A. NAME: JAIME WALKER
   B. PHONE: (978) 551–1156
   C. EMAIL: JAIME.WALKER@NATIONALGRID.COM
3. CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR ENVIRONMENTAL GUIDANCE FORMS, FOR EXAMPLE EG–301, FOR THE RESPECTIVE STATE.
4. WHEN SOILS OR LIQUIDS ARE ENCOUNTERED THAT ARE BELIEVED TO BE CONTAMINATED WITH OIL AND/OR HAZARDOUS MATERIAL, EXCAVATION WORK SHALL BE HALTED AND FIELD PERSONNEL SHALL NOTIFY THEIR IMMEDIATE SUPERVISOR.
5. NO EXCAVATED SOIL SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.
6. NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:
   A. SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING
   B. SHE02002: REMOVING MERCURY REGULATORS AND DEVICES
   C. SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
   D. EG303–NE: BEST MANAGEMENT PRACTICES
   E. EG140: USED GAS PIPE MANAGEMENT
7. ENVIRONMENTAL REQUIREMENTS:
   A. PROPOSED WORK IS LOCATED WITHIN 100 FEET OF WETLANDS AND/OR BODIES OF WATER/ WITHIN 200 FEET OF A RIVER OR AS STREAM (*25 FEET IN BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, EVERETT, FALL RIVER, LAWRENCE, LOWELL, MALDEN, NEW BEDFORD, SOMERVILLE, SPRINGFIELD, WINTHROP OR WORCESTER)/ WITHIN A FLOODPLAIN.
   B. ENVIRONMENTAL PERMIT AND/OR THE USE OF ENVIRONMENTAL BMPS MAY BE REQUIRED. SEE THE ENVIRONMENTAL MEMO FOR DETAILS.
   C. POTENTIALLY CONTAMINATED SITES LOCATED WITH IN PROJECT SCOPE. CONTACT ENVIRONMENTAL DEPARTMENT BEFORE DIGGING. CONDUCT SOIL TESTING TO DETERMINE THE PRESENCE OF ANY HYDROCARBONS WITH IN THE PROJECT SCOPE. CONTACT ENGINEERING DEPARTMENT IF TESTING CONFIRMS THE PRESENCE OF ANY HYDROCARBONS FOR POTENTIAL MAIN MATERIAL CHANGES.

SAFETY:

1. WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.
2. REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.
3. A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.
4. CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART VI AND SHALL BE MAINTAINED BY THE CONTRACTOR.
5. NATIONAL GRID SAFETY PROCEDURES COVER THE FOLLOWING CATEGORIES:
   A. A– ADMINISTRATIVE; B– INSPECTIONS; C– WALKING WORKING SURFACES; D– MEANS OF EGRESS; E– MATERIAL HANDLING AND STORAGE; F– TOXIC AND HAZARDOUS SUBSTANCES; G– HAZARDOUS MATERIALS; H– PERSONAL PROTECTIVE EQUIPMENT; I– GENERAL ENVIRONMENTAL CONTROLS, J– ACCIDENT INVESTIGATION; K– MACHINERY AND GUARDING; L– WELDING/CUTTING/BRAZING; M– EXCAVATIONS; N– CONTRACTORS; FIRE PROTECTION; Q– FLEET AND ROADWAY SAFETY
6. GAS WORK METHODS SAFETY PROCEDURES INCLUDE:
   A. SHE01001: GENERAL SAFETY REQUIREMENTS
   B. SHE01002: SUPPLIED–AIR RESPIRATORS
   C. SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS
   D. SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS
   E. SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
   F. SHE01006: ENTERING GAS UTILITY VAULTS
   G. SHE01007: INTERNAL PIPE SEALING
   H. SHE01008: USING AND MAINTAINING THE GAS EXPLORER
   I. SHE01009: USING AND MAINTAINING THE HEATH INFRARED METHANE DETECTOR
   J. SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER–RISK GAS ACTIVITIES PERFORMED IN THE FIELD
7. ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR GROUNDWATER MUST HAVE UP–TO–DATE OSHA 40–HOUR HAZWOPER TRAINING. COPIES OF OSHA CERTIFICATES/TRAINING REFRESHERS SHALL BE PROVIDED TO NATIONAL GRID FOR REVIEW PRIOR TO THE START OF WORK.

OTHER PERMITTING REQUIREMENTS:

1. TOWN OF CONCORD STREET OPENING PERMIT
2. SITE SPECIFIC TRAFFIC MANAGEMENT PLAN (TMP)
3. GRANT OF LOCATION (GOL) REQUIRED FOR TOWN OF CONCORD

UTILITY OWNER INFORMATION:

WATER/SEWER/STORM:	CONCORD DPW–WATER & SEWER #135 KEYES RD ACTON, MA 01742
ELECTRIC:	CONCORD MUNICIPAL LIGHT PLANT PO BOX #1029 CONCORD, MA 01742
GAS:	NATIONAL GRID GAS #170 DATA DR. WALTHAM, MA 02451
TELEPHONE:	VERIZON #385 MYLES STANDISH BLVD. TAUNTON, MA 02780
CABLE:	COMCAST CABLE CORPORATON PO BOX #6505, #5 OMNI WY CHELMSFORD, MA 01824 MCI–VERIZON BUSINESS PO BOX #600 CHARLTON, MA 01507 CROWN CASTLE #80 CENTRAL ST BOXBOROUGH, MA 01719

REFERENCE DRAWINGS:

1. LOCATION OF IDENTIFIED UNDERGROUND UTILITIES ARE AN APPROXIMATE BASED ON AVAILABLE RECORD AND FIELD INFORMATION IN ACCORDANCE WITH CI/ASCE 38–02. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT IDENTIFIED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATIONS, ETC.
2. QUALITY LEVEL C SURVEY – ALPHA SURVEY GROUP (FINAL – DATED 06/06/2024)

LEGEND

- EXISTING WROUGHT IRON GAS MAIN, DRIP, VALVE, REGULATOR, CAP
- EXISTING CAST IRON GAS MAIN, DRIP, VALVE, REGULATOR, CAP
- EXISTING BARE STEEL GAS MAIN, DRIP, VALVE, REGULATOR, CAP
- EXISTING COATED STEEL GAS MAIN, DRIP, VALVE, REGULATOR, CAP
- EXISTING PLASTIC GAS MAIN, VALVE, REDUCER
- EXISTING POLYBUTYLENE GAS MAIN, VALVE, REDUCER
- EXISTING CRITICAL GAS MAIN
- PROPOSED GAS MAIN, VALVE, COUPLING, TEE, TAPPING TEE, OVER
- PROPOSED GAS MAIN UNDER SEPARATE WO, VALVE, COUPLING, TEE, OVER
- RETIRED GAS MAIN
- NEW GAS SERVICE, FLOW LIMITER, METER, VALVE
- EXISTING GAS SERVICE, FLOW LIMITER, METER, VALVE
- EXISTING CENTERLINE W/ MARKER
- EXISTING FIBER OPTIC LINE, CABLE BOX
- EXISTING OVERHEAD ELECTRIC LINE, POWERPOLE, POLE W/ GUYWIRE, LIGHT POLE
- EXISTING UNDERGROUND ELECTRIC LINE, HANDHOLE, PEDESTAL, TRAFFIC LIGHT
- EXISTING SANITARY SEWER LINE, CLEANOUT, MANHOLE
- EXISTING STORM DRAIN/CULVERT, CATCH BASIN, MANHOLE
- EXISTING WATER MAIN, VALVE, HYDRANT
- EXISTING UNDERGROUND TELEPHONE
- EXISTING MWRA WATER MAIN
- PROPOSED MWRA WATER MAIN
- EXISTING MWRA SEWER/DRAIN MAIN
- PROPOSED MWRA SEWER/DRAIN MAIN
- EXISTING MBTA DUCTS
- EXISTING UNKNOWN UTILITY
- PROPOSED FIBER OPTIC LINE
- PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN/CULVERT
- PROPOSED WATER MAIN
- PROPOSED UNDERGROUND TELEPHONE
- TREE, BUSH, TREE LINE
- RAILROAD
- TOWN LINE
- APPROXIMATE ROW/PROPERTY LINE
- PROPOSED PERMANENT EASEMENT
- EXISTING EASEMENT
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING STONE WALL
- EXISTING STREAM/RIVER EDGE
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- HAZARDOUS (HAZWOPER) AREA

BILL OF MATERIALS

ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	NATIONAL GRID REFERENCE	SAP ID NUMBER
1	40	FT	PIPE, SDR 11, MDPE, 10 FT LENGTHS	2	120026-MS	9322709
2*	200	FT	PIPE, SDR 11, MDPE, 250 FT COIL	2	120026-MS	9340876
3*	580	FT	PIPE, SDR 13.5, MDPE, 40 FT LENGTHS	8	120026-MS	9340862
4*	80	FT	PIPE, SDR 13.5, MDPE, 40 FT LENGTHS	12	120026-MS	9340863
5	3	EA	CAP, SDR 11, BUTT FUSED, MDPE	2	120026-MS	9339540
6	2	EA	CAP, ELECTROFUSION, HDPE	2	120025-MS	9393634
7			N/A			
8	2	EA	CAP, WELDING, STEEL, 2 INCH, STANDARD WALL, 0.154 IN WALL, ASTM A-234 WPB	2	120020-MS	9312095
9	1	EA	CAP, WELDING, STEEL, 4 INCH, STANDARD WALL, 0.237 IN WALL, ASTM A-234 WPB	4	120020-MS	9312096
10	2	EA	CAP, LINE, STEEL, 2.375 O.D., 5IN MIDDLE RING ARMORED GASKET W/1IN VENT EPOXY, W/ ANODE CONNECTOR	2	FITS6024	9323367
11	4	EA	CAP, LINE, VENTED, SELF RESTRAINING BOLTED, COMPRESSION, FOR STEEL, 4.50 IN OD PIPE, CONDUCTIVE, 5IN Lx0.188IN THK MIDDLE RING, ARMORED GASKET, E-COAT OR OTHER APPROVED GRIP RING COATING	4	FITS6024	9315211
12	7	EA	COUPLING, ELECTROFUSION, HDPE	2	120025-MS	9314594
13	1	EA	COUPLING, ELECTROFUSION, HDPE	4	120025-MS	9314593
14	2	EA	COUPLING, ELECTROFUSION, HDPE	8	120025-MS	9314591
15	1	EA	CAP, SDR 13.5, BUTT FUSED, MDPE	8	120026-MS	9339559
16	3	EA	COUPLING, COMPRESSION, SELF-RESTRAINING, INSULATED, BOLTED, 4 INCH IPS STEEL X 4 INCH STEEL/PE DRESSER STYLE 711	4	FITS6025	9314427
17	2	EA	COUPLING, COMPRESSION, SELF-RESTRAINING, INSULATED, BOLTED, 8 INCH IPS STEEL X 8 INCH STEEL/PE DRESSER STYLE 711	8	FITS6025	9314425
18	4	EA	FITTING TRANSITION, 2 INCH WELD END STEEL/PLASTIC, SDR 11, MDPE	2	120026-MS	9339392
19	3	EA	STIFFENER, INSERT, METAL, FOR SDR 11.5 PIPE	4	FITS6025	9340106
20	2	EA	STIFFENER, INSERT, METAL, FOR SDR 13.5 PIPE	8	FITS6025	9341316
21	1	EA	TEE, SDR 11, BUTT FUSE, MDPE	2	120026-MS	9342031
22*	4	EA	TEE, SDR 13.5, BUTT FUSE, MDPE	8	120026-MS	9342070
23	1	EA	TEE, SDR 13.5, BUTT FUSE, MDPE	12	120026-MS	9339581
24*	7	EA	90 DEG. ELBOW, SDR 11, BUTT FUSE, MDPE	2	120026-MS	9341385
25	2	EA	45 DEG. ELBOW, SDR 11.5, BUTT FUSE, MDPE	4	120026-MS	9341400
26	2	EA	90 DEG. ELBOW, SDR 11.5, BUTT FUSE, MDPE	4	120026-MS	9341397
27*	34	EA	45 DEG. ELBOW, SDR 13.5, BUTT FUSE, MDPE	8	120026-MS	9341402
28*	6	EA	90 DEG. ELBOW, SDR 13.5, BUTT FUSE, MDPE	8	120026-MS	9341398
29	2	EA	45 DEG. ELBOW, SDR 13.5, BUTT FUSE, MDPE	12	120026-MS	9341403
30*	4	EA	REDUCER, SDR 11.5 X SDR 11.5, BUTT FUSE, MDPE	6X4	120026-MS	9342678
31*	4	EA	REDUCER, SDR 13.5 X SDR 11.5, BUTT FUSE, MDPE	8X6	120026-MS	9342616
32	3	EA	REDUCER, SDR 13.5 X SDR 13.5, BUTT FUSE, MDPE	12X8	120026-MS	9342617
33*	5	EA	VALVE, 2 INCH POLY, HIGH DENSITY BODY WITH MD PE 2406 PUPS, FULL BORE, SDR 11	2	VALV6020	9341784
34*	5	EA	BOX AND COVER, VALVE, ROADWAY, WITH FOOT PIECE, FOR 2 INCH AND 3 INCH VALVES	2	VALV6020	9339890
35*	5	EA	VALVE, SDR 13.5, FULL PORT, MDPE, 18 IN LONG PUPS	8	VALV6020	9386594
36	1	EA	VALVE, BALL, FULL PORT, MDPE, 2IN SQUARE OPERATOR	12	VALV6020	9341704
37*	6	EA	BOX, VALVE, 12 INCH, LOCKING COVER MARKED "GAS"	8 & 12	FITS6360	9307586
38*	A/R	EA	SPACER, FIBERGLASS REINFORCED PLASTIC	2	CNST6010	9341930
39	2	EA	TEE, 3 WAY, TAPPING, 2 IN, CLASS 150, SCH 40 OUTLET, CONTOURED BASE, THREADED TOP, COMPLETE WITH CAP, PLUG AND O-RING	2	FITS6055	9310679
40	7	EA	TD WILLIAMSON FITTING, 1-1/4 IN. W. CAP, COMPLETION PLUG, O-RING AND NIPPLE	1-1/4	FITS6055	9308613
41	10	EA	TD WILLIAMSON FITTING, SHORT STOPP, 2 IN. WELDING, 2 IN, CONTOUR BASE	2	FITS6055	9314326
42	7	EA	TD WILLIAMSON 4 IN. FITTING, LINE STOPPER, WILLIAMSON SHORTSTOP, IPS WITH CONTOURED WELD BASE AND COLLAR TOP. ANSI CLASS 150	4	FITS6055	9312588
43	4	EA	TD WILLIAMSON 8 IN. FITTING, LINE STOPPER, WILLIAMSON SHORTSTOP, IPS WITH CONTOURED WELD BASE AND COLLAR TOP. ANSI CLASS 150	8	FITS6055	9312567
44	940	FT	WIRE, TRACER, DIRECT BURY USE		CNST6061	9315005
45	1	EA	TAPE, YELLOW CAUTION, GAS MAIN, 1000' ROLL	6	CNST6060	9341904
46	9	EA	9X9 TEST STATION BOX	9X9	030026-CS	9339391
47	9	EA	TEST STATION COVER	9	030026-CS	9339797
48	16	EA	ANODE, MAGNESIUM, 17LB, HIGH POTENTIAL	30	120004-MS	9311183
49	A/R	EA	CARTRIDGE, CHARGE, THERMITE, STEEL, FOR CADWELD PLUS CONTROL UNIT, STEEL CONNECTION, 15 GRAMS.	15G	030026-CS	9381574
50	A/R	EA	WIRE #8 AWG STRANDED 600V SOFT INSULATION FOR CATHODIC PROTECTION TEST STATIONS. SUPPLIED IN 500 FT ROLLS	#8	030026-CS	9307539
51	A/R	EA	CONNECTION, SPLIT BOLT, FOR #6 SOLID CONDUCTOR WIRE	#6	030026-CS	9331578
52*	1	EA	REDUCER, SDR 11.5 X SDR 11, BUTT FUSE, MDPE	4X2	120026-MS	9384553
53	40	FT	PIPE, SDR 11.5, MDPE, 40 FT LENGTHS	4	120026-MS	9340857
54	2	EA	90 DEG. ELBOW, SDR 13.5, BUTT FUSE, MDPE	12	120026-MS	9341404
55	1	EA	TEE, TAPPING, ELECTROFUSION, 2 INCH IPS MAIN X 2 INCH IPS OUTLET	2X2	120025-MS	9314590
56	10	FT	PIPE, CARBON STEEL, 2 IN. SCHEDULE 40, 0.154 IN. WALL, WRAPPED, 21 FT. UNIFORM LENGTHS, PLAIN END BEVELED	2	120020-MS	9340728
57	1	EA	ELBOW, WELD, 90 DEGREE, LONG RADIUS, 2 IN IPS, STEEL, STANDARD WALL	2	120020-MS	9315522
58	1	EA	VALVE, FULL PORT, SIDE WALL HOT TAP	4	VALV6020	9341709
59	1	EA	BOX, VALVE FOR MAIN LINE VALVES 6 INCH REDUCED PORT OR 4 INCH FULL PORT PLASTIC VALVE	4	VALV6020	9339892
60	1	EA	COUPLING, ELECTROFUSION, HDPE	12	120025-MS	9314939
61	2	EA	TEE, 3 WAY, TAPPING, 2 IN, CLASS 150, SCH 40 OUTLET, FLAT BOTTOM, THREADED TOP, COMPLETE WITH CAP, PLUG AND O-RING	2	FITS6055	9308515

*** SOME QUANTITIES LABELED ON LAYOUT SHEETS AND PROFILES**

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

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170 DATA DRIVE
WALTHAM, MA 02451

IFC

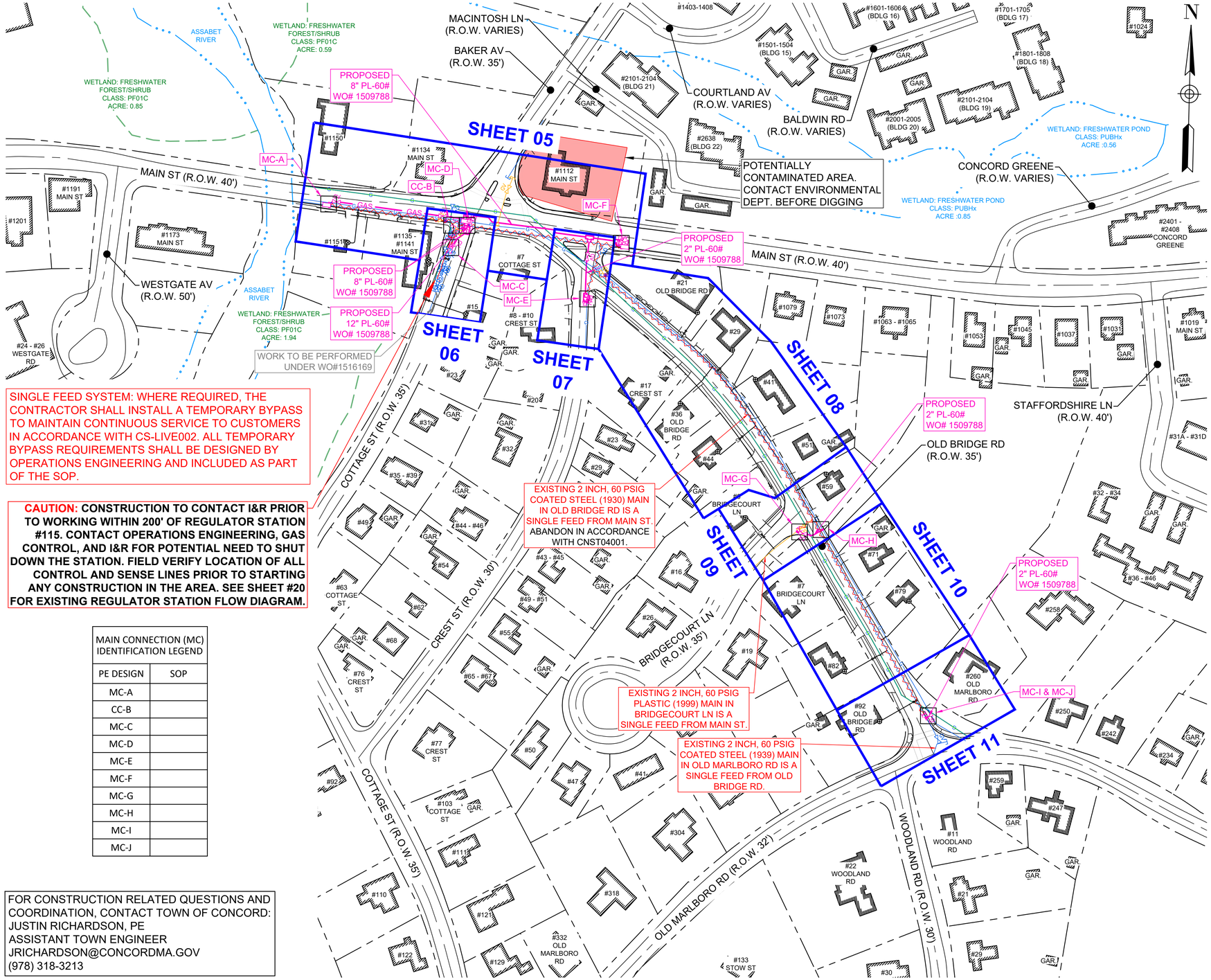
PE STAMP: COMMONWEALTH OF MASSACHUSETTS — MARK E. PETROSKI — 7/22/2024 — CIVIL — NO. 54037 — REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

CONSTRUCTION NOTES & BILL OF MATERIALS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788



DESIGN PARAMETERS:
WO#1509788 - 21-92 OLD BRIDGE RD, CON, MAIN ST & COTTAGE ST
SYSTEM NUMBER: WEST AREA 60#/LEOMINSTER 60# ARL/LEX/BUR 60#
SYSTEMS' MOPS (PSIG, OR "LP "): 60 PSIG
EXPECTED OPERATING PRESSURE RANGE: 10 - 60 PSIG
DESIGN DAY TEMPERATURE (°F): 0°F
MIN & MAX OPERATING TEMPERATURE RANGE (°F): -20°F TO +73°F

STREET NAME: MAIN ST
SIZING RECOMMENDATION: 8IN PL (TO BE LAID IN PARALLEL WITH EXISTING 8IN CS)
DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 125
SINGLE FEED SYSTEM: NO

STREET NAME: COTTAGE ST
SIZING RECOMMENDATION: 12IN PL (SPLIT INTO TWO 8IN MAINS TO CONNECT TO PARALLEL MAINS IN MAIN ST)
DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 250
SINGLE FEED SYSTEM: SINGLE FEED FROM OUTLET OF STATION

STREET NAME: OLD BRIDGE RD
SIZING RECOMMENDATION: OK TO ABANDON 2IN CS MAIN AND TRANSFER SERVICES TO PARALLEL 8IN CS
DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 40
SINGLE FEED SYSTEM: THE 2IN CS 60 PSIG MAIN IN OLD BRIDGE RD IS SINGLE FEED. TIE REMAINING 2IN CS OVER TO 8 IN CS AT #92 OLD BRIDGE RD BEOFORE COMPLETING ABANDONMENT

STREET NAME: BRIDGECOURT LN, CREST ST
SIZING RECOMMENDATION: 2IN PL
DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 2
SINGLE FEED SYSTEM: YES
REVIEWED BY: KASEY ELKIN. REVIEW DATE: 06/27/2024

SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

CAUTION: CONSTRUCTION TO CONTACT I&R PRIOR TO WORKING WITHIN 200' OF REGULATOR STATION #115. CONTACT OPERATIONS ENGINEERING, GAS CONTROL, AND I&R FOR POTENTIAL NEED TO SHUT DOWN THE STATION. FIELD VERIFY LOCATION OF ALL CONTROL AND SENSE LINES PRIOR TO STARTING ANY CONSTRUCTION IN THE AREA. SEE SHEET #20 FOR EXISTING REGULATOR STATION FLOW DIAGRAM.

MAIN CONNECTION (MC) IDENTIFICATION LEGEND	
PE DESIGN	SOP
MC-A	
CC-B	
MC-C	
MC-D	
MC-E	
MC-F	
MC-G	
MC-H	
MC-I	
MC-J	

FOR CONSTRUCTION RELATED QUESTIONS AND COORDINATION, CONTACT TOWN OF CONCORD:
JUSTIN RICHARDSON, PE
ASSISTANT TOWN ENGINEER
JRICHARDSON@CONCORDMA.GOV
(978) 318-3213

PROJECT SCOPE:

AS PART OF THE BSMNRPL PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE:

- RELAY OF APRX 400 FEET OF 4 INCH, 60 PSIG COATED STEEL (1930 - NCON0000), APRX 25 FEET OF 2 INCH, 60 PSIG COATED STEEL (1960 - GOPB506), AND APRX 10 FEET OF 4 INCH, 60 PSIG PLASTIC (2020, 2022) WITH APRX 435 FEET OF 8 INCH, 60 PSIG PLASTIC IN MAIN ST FROM THE EXISTING 4 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) AT #1151 MAIN ST TO THE EXISTING 4 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) AT #1112 MAIN ST,
- RELAY OF APRX 50 FEET OF 4 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) AND APRX 10 FEET OF 4 INCH, 60 PSIG PLASTIC (2019) WITH APRX 30 FEET OF 8 INCH, 60 PSIG PLASTIC IN COTTAGE ST FROM MAIN ST, THEN APRX 30 FEET OF 12 INCH, 60 PSIG PLASTIC TO THE EXISTING 4 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) AT #7 COTTAGE ST (NOTE: REGULATOR STATION IN SCOPE),
- RELAY OF APRX 35 FEET OF 4 INCH, 60 PSIG COATED STEEL (1962 - NCON0000) WITH APRX 35 FEET OF 8 INCH, 60 PSIG PLASTIC IN COTTAGE ST FROM THE EXISTING 8 INCH, 60 PSIG COATED STEEL (1948 - ICON0066) IN MAIN ST TO #7 COTTAGE ST (TIE INTO THE 12 INCH, 60 PSIG PLASTIC BEING INSTALLED TO REPLACE THE 4 INCH, 60 PSIG COATED STEEL (1930 - NCON0000)),
- RELAY OF APRX 80 FEET OF 2 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) WITH APRX 80 FEET OF 2 INCH, 60 PSIG PLASTIC IN CREST ST FROM MAIN ST TO THE EXISTING 2 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) AT #10 CREST ST,
- ABANDONMENT OF APRX 840 FEET OF 2 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) IN OLD BRIDGE RD FROM CREST ST TO #92 OLD BRIDGE RD. TRANSFER ALL SERVICES TO THE EXISTING PARALLEL 8 INCH, 60 PSIG COATED STEEL (1948 - ICON0066),
- INSTALLATION OF APRX 10 FEET OF 2 INCH, 60 PSIG PLASTIC AT #92 OLD BRIDGE RD TO TIE THE EXISTING 2 INCH, 60 PSIG COATED STEEL (1930 - NCON0000) INTO THE EXISTING PARALLEL 8 INCH, 60 PSIG COATED STEEL (1948 - ICON0066), AND
- RELAY OF APRX 15 FEET OF 2 INCH, 60 PSIG PLASTIC (1999) WITH APRX 25 FEET OF 2 INCH, 60 PSIG PLASTIC AT THE INTERSECTION OF OLD BRIDGE RD AND BRIDGECOURT LN.

NOTE: COTTAGE ST. @ MAIN ST, 60 PSIG REGULATOR STATION TO BE REPLACED FY 26 (WO#90000229492)

80' 0' 80' 160'
1"=80'

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY d/b/a nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

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21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

OVERALL SCOPE OF WORK

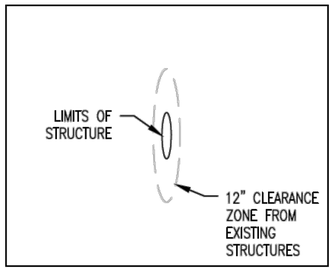
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-001	04

LAYOUT NOTES:

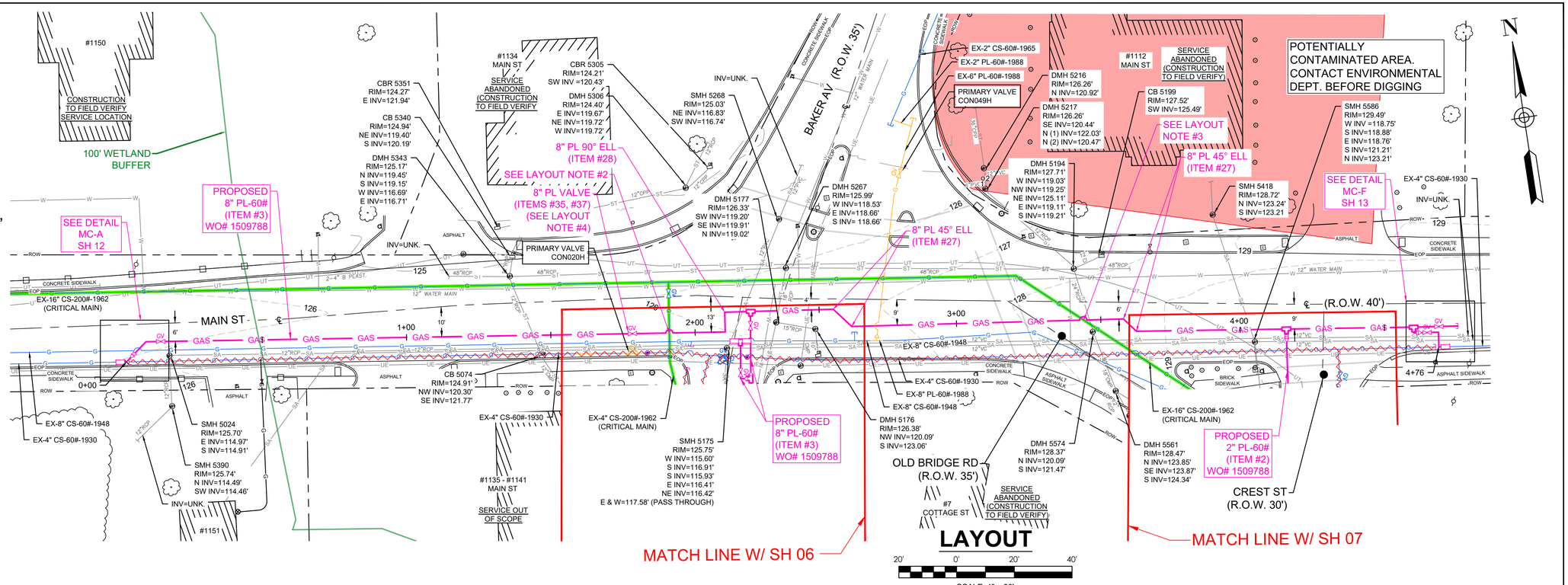
1. THE EXISTING 16 INCH, 200 PSIG CS (1962) MAIN IS DEEMED A CRITICAL MAIN.
2. DO NOT TIE 8 INCH, 60 PSIG PL MAIN INTO EXISTING 4 INCH, 200 PSIG CS (1962) CRITICAL MAIN.
3. DO NOT TIE 8 INCH, 60 PSIG PL MAIN INTO EXISTING 16 INCH, 200 PSIG CS (1962) CRITICAL MAIN.
4. PROPOSED 8 INCH PLASTIC BALL VALVE TO REPLACE PRIMARY VALVE CON020H. CONSTRUCTION SUPERVISOR TO NOTIFY VALVE PROGRAM LEAD OF THE REPLACEMENT WHEN CONSTRUCTION IS COMPLETE.
5. REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.

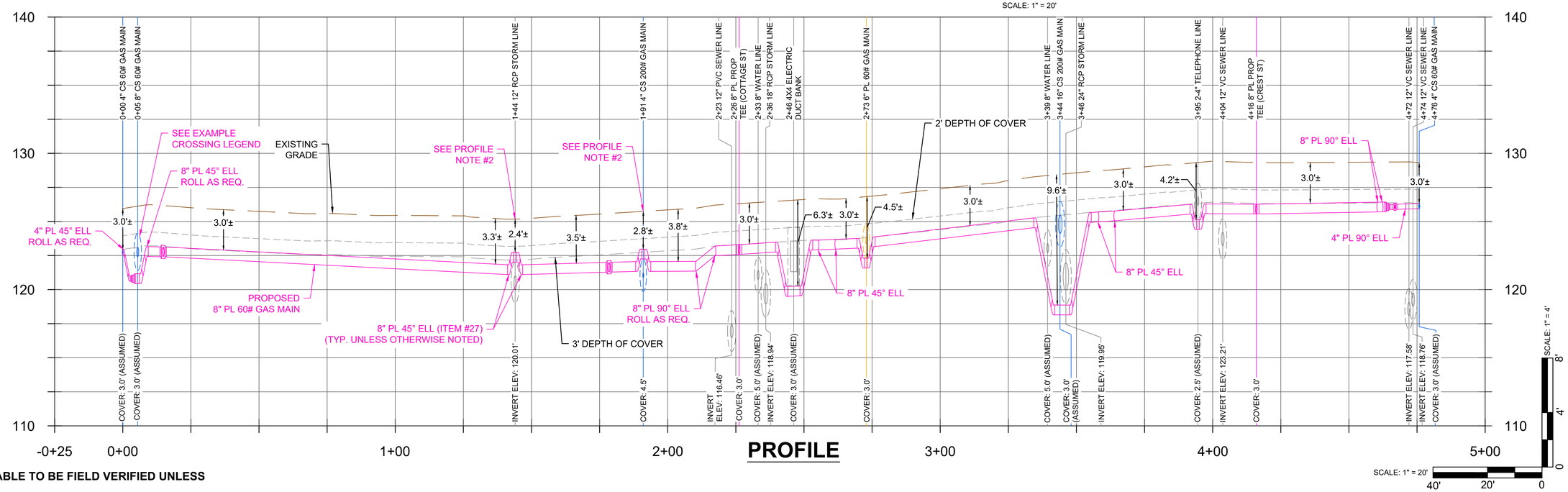
EXAMPLE CROSSING LEGEND



PROFILE NOTES:

1. PER CS-CNST002-MA (SEE SH 19), PROPOSED GAS MAIN TO MAINTAIN A MINIMUM OF 12" PERPENDICULAR CLEARANCE BETWEEN OTHER UTILITIES. IF A MINIMUM OF 12" PERPENDCULAR CLEARANCE CANNOT BE ATTAINED, PROTECT THE GAS LINE PER STANDARD.
2. PER CNST-6030-MA-RI (SEE SH 19), PROPOSED GAS MAINS OPERATING AT LESS THAN 125 PSIG MUST MAINTAIN TWO FEET (2') OF COVER IN A NON STATE ROAD. SEE GENERAL CONSTRUCTION NOTE #4 IF TWO FEET (2') OF COVER CANNOT BE ATTAINED.
3. EXISTING FOREIGN UTILITIES CAN BE SUPPORTED PER SUPPORT DETAILS PROVIDED ON SH 18 WHEN PROPOSED MAIN CROSSES UNDER OTHER UTILITIES.
4. SEE LAYOUT FOR INVERT INFORMATION ON EXISTING UTILITIES. EXISTNG UTILITY LINES LABELED AS ASSUMED ON PROFILE WERE UNABLE TO BE FIELD VERIFIED UNLESS OTHERWISE NOTED:
   EX. GAS LINES ASSUMED DEPTH OF COVER 3'
   EX. WATER/STORM LINES ASSUMED DEPTH OF COVER 5'
   EX. SANITARY SEWER LINES ASSUMED DEPTH OF COVER 7'
   EX. TELEPHONE/CABLE LINES ASSUMED DEPTH OF COVER 2.5'
   EX. ELECTRIC LINES ASSUMED DEPTH OF COVER 3'





THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE:(781) 385-4644

BOSTON GAS COMPANY d/b/a nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

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21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

MAIN ST - LAYOUT & PROFILE

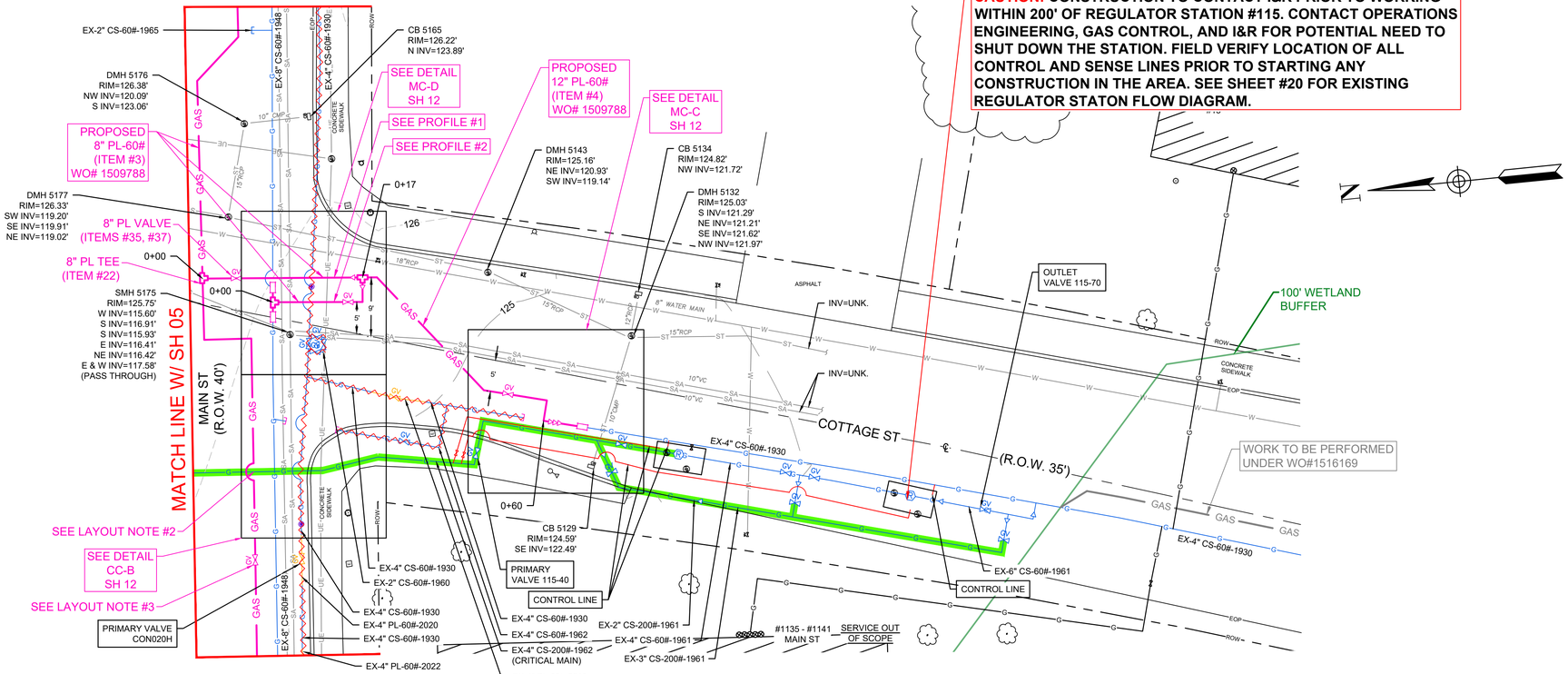
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-002	05

LAYOUT NOTES:

1. THE EXISTING 4 INCH, 200 PSIG CS (1962) MAIN IS DEEMED A CRITICAL MAIN.
2. DO NOT TIE 8 INCH, 60 PSIG PL MAIN INTO EXISTING 4 INCH, 200 PSIG CS (1962) CRITICAL MAIN.
3. PROPOSED 8 INCH PLASTIC BALL VALVE TO REPLACE PRIMARY VALVE CON020H. CONSTRUCTION SUPERVISOR TO NOTIFY VALVE PROGRAM LEAD OF THE REPLACEMENT WHEN CONSTRUCTION IS COMPLETE.
4. REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.

CAUTION: CONSTRUCTION TO CONTACT I&R PRIOR TO WORKING WITHIN 200' OF REGULATOR STATION #115. CONTACT OPERATIONS ENGINEERING, GAS CONTROL, AND I&R FOR POTENTIAL NEED TO SHUT DOWN THE STATION. FIELD VERIFY LOCATION OF ALL CONTROL AND SENSE LINES PRIOR TO STARTING ANY CONSTRUCTION IN THE AREA. SEE SHEET #20 FOR EXISTING REGULATOR STATON FLOW DIAGRAM.

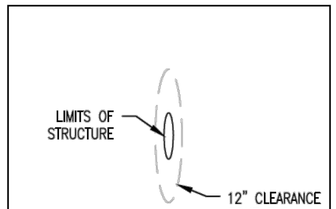


LAYOUT

10' 0' 10' 20'

SCALE: 1" = 10'

EXAMPLE CROSSING LEGEND



PROFILE NOTES:

1. PER CS-CNST002-MA (SEE SH 19), PROPOSED GAS MAIN TO MAINTAIN A MINIMUM OF 12" PERPENDICULAR CLEARANCE BETWEEN OTHER UTILITIES. IF A MINIMUM OF 12" PERPENDCULAR CLEARANCE CANNOT BE ATTAINED, PROTECT THE GAS LINE PER STANDARD.
2. PER CNST-6030-MA-RI (SEE SH 19), PROPOSED GAS MAINS OPERATING AT LESS THAN 125 PSIG MUST MAINTAIN TWO FEET (2') OF COVER IN A NON STATE ROAD. SEE GENERAL CONSTRUCTION NOTE #4 IF TWO FEET (2') OF COVER CANNOT BE ATTAINED.
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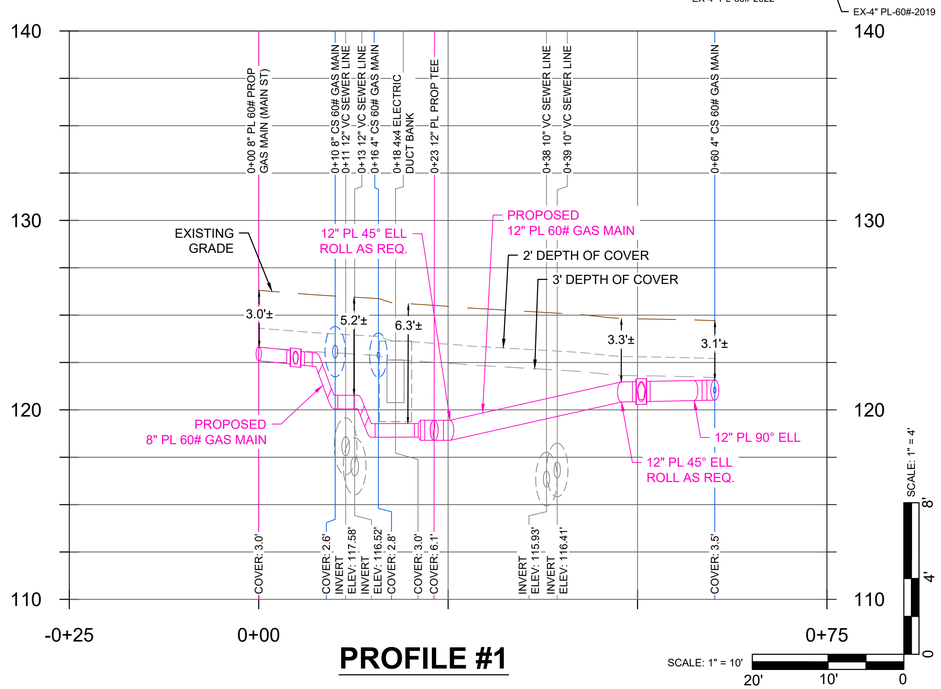
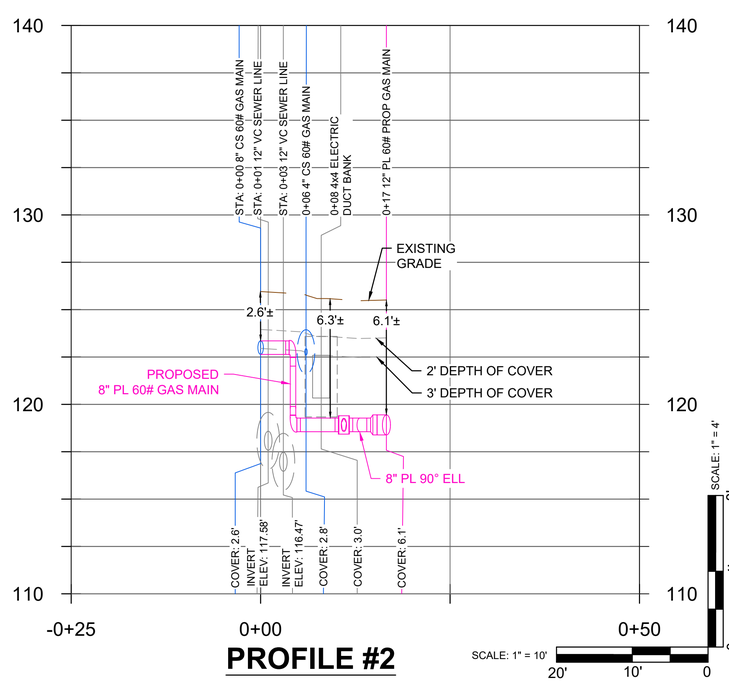


PROFILE #1



PROFILE #2

153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE:(781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

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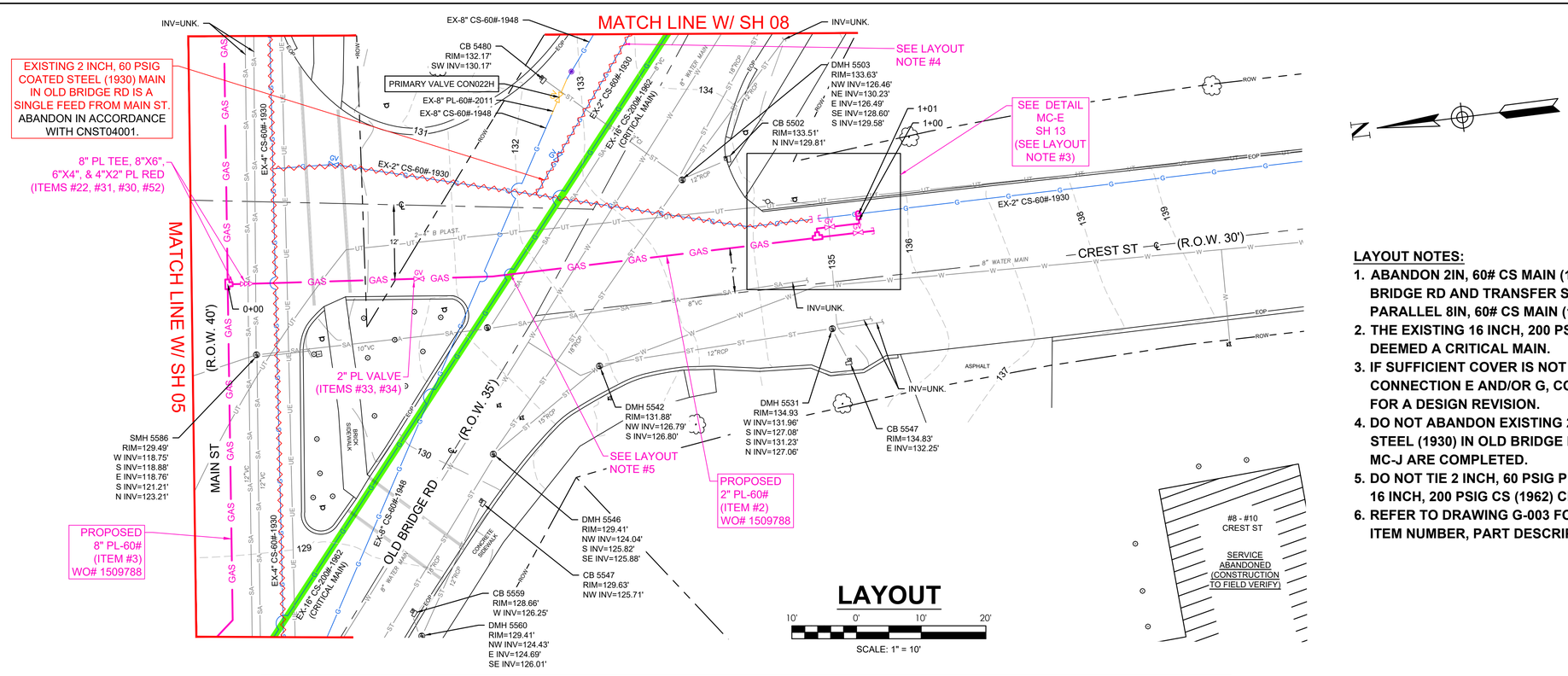
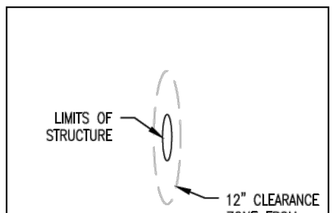
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

COTTAGE ST - LAYOUT & PROFILE

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788



EXAMPLE CROSSING LEGEND



LAYOUT NOTES:

1. ABANDON 2IN, 60# CS MAIN (1930 - NCON0000) IN OLD BRIDGE RD AND TRANSFER SERVICES TO EXISTING PARALLEL 8IN, 60# CS MAIN (1948 - ICON0066).
2. THE EXISTING 16 INCH, 200 PSIG CS (1962) MAIN IS DEEMED A CRITICAL MAIN.
3. IF SUFFICIENT COVER IS NOT AVAILABLE FOR CONNECTION E AND/OR G, CONTACT ENGINEERING FOR A DESIGN REVISION.
4. DO NOT ABANDON EXISTING 2 INCH, 60 PSIG COATED STEEL (1930) IN OLD BRIDGE RD UNTIL MC-I AND MC-J ARE COMPLETED.
5. DO NOT TIE 2 INCH, 60 PSIG PL MAIN INTO EXISTING 16 INCH, 200 PSIG CS (1962) CRITICAL MAIN
6. REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.

PROFILE NOTES:

1. PER CS-CNST002-MA (SEE SH 19), PROPOSED GAS MAIN TO MAINTAIN A MINIMUM OF 12" PERPENDICULAR CLEARANCE BETWEEN OTHER UTILITIES. IF A MINIMUM OF 12" PERPENDCULAR CLEARANCE CANNOT BE ATTAINED, PROTECT THE GAS LINE PER STANDARD.
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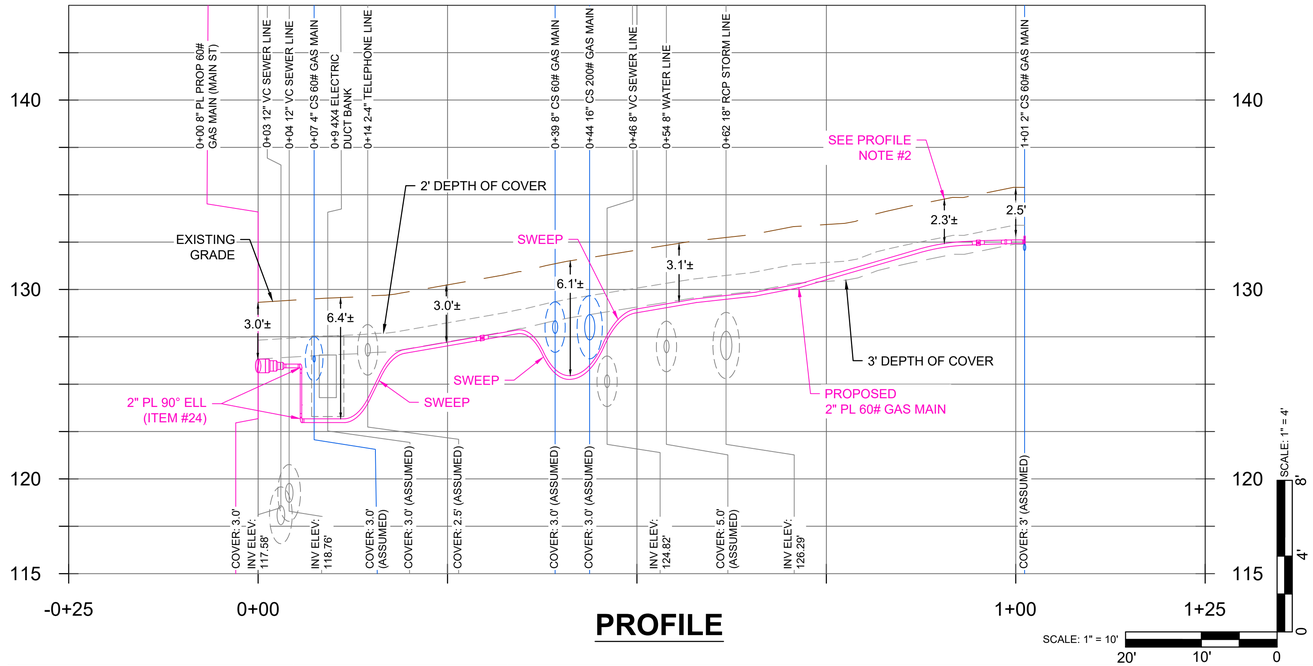

PROFILE

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CONCORD, MA

CREST ST - LAYOUT & PROFILE

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-004	07

LAYOUT NOTES:

1. **ABANDON 2IN, 60# CS MAIN (1930 - NCON0000) IN OLD BRIDGE RD AND TRANSFER SERVICES TO EXISTING PARALLEL 8IN, 60# CS MAIN (1948 - ICON0066).**
2. **THE EXISTING 16 INCH, 200 PSIG CS (1962) MAIN IS DEEMED A CRITICAL MAIN.**
3. **DO NOT ABANDON EXISTING 2 INCH, 60 PSIG COATED STEEL (1930) IN OLD BRIDGE RD UNTIL MC-I AND MC-J ARE COMPLETED.**
4. **REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.**

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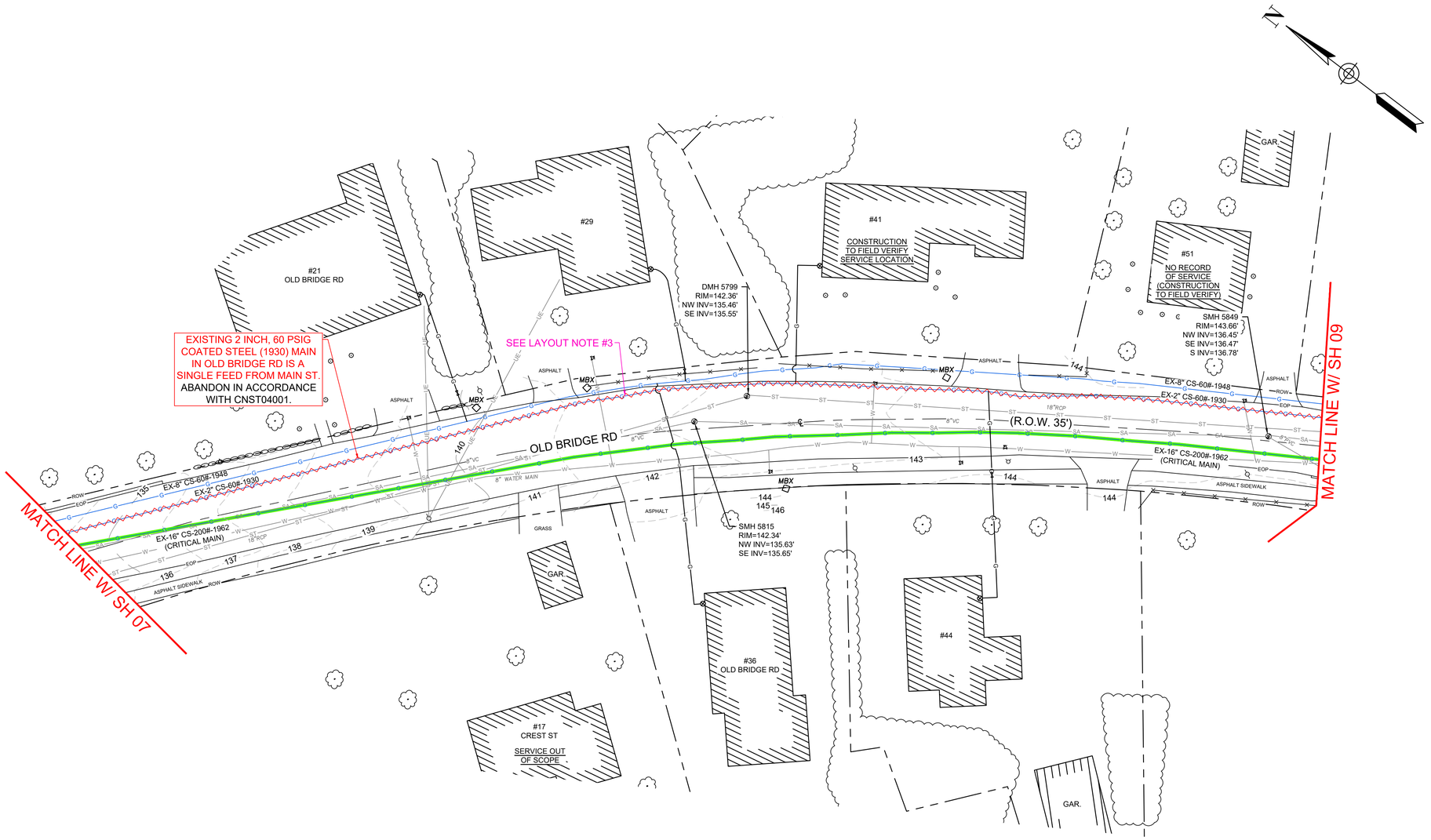

20' 0' 20' 40'
1" = 20'

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GAS MAIN REPLACEMENT
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CONCORD, MA

OLD BRIDGE RD - LAYOUT

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-005	08

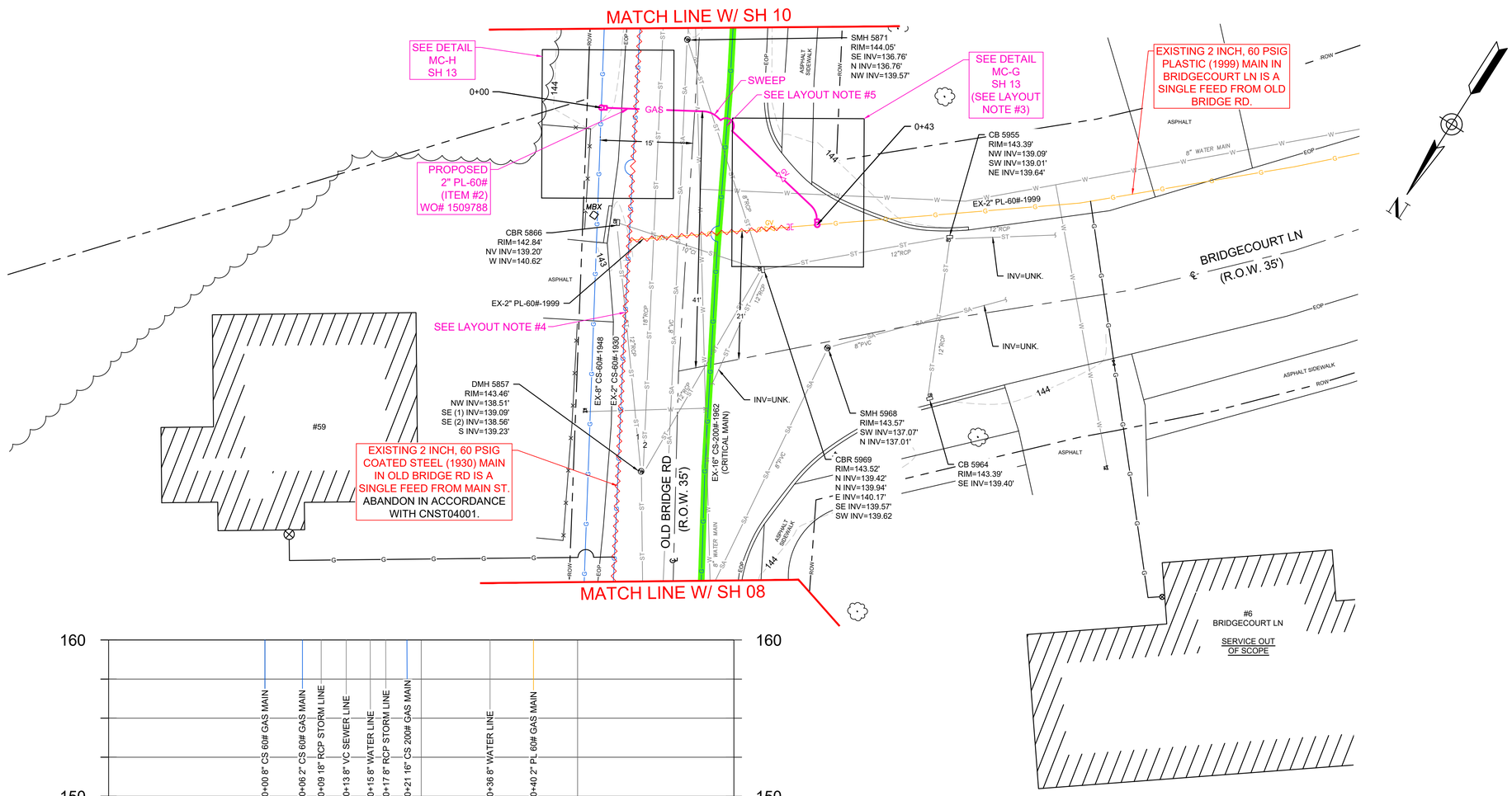
LAYOUT NOTES:

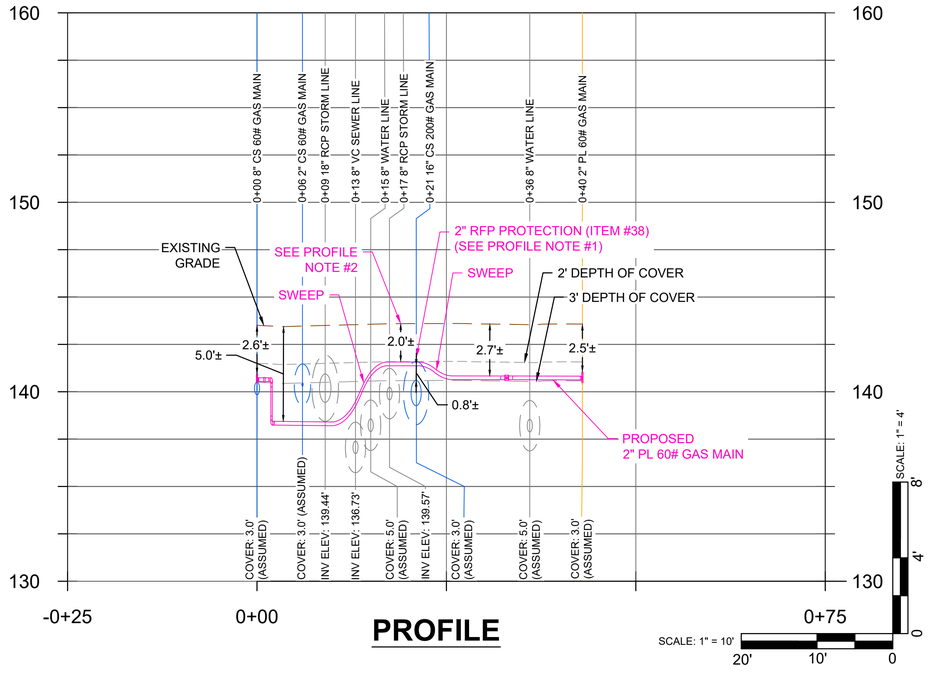
1. ABANDON 2IN, 60# CS MAIN (1930 - NCON0000) IN OLD BRIDGE RD AND TRANSFER SERVICES TO EXISTING PARALLEL 8IN, 60# CS MAIN (1948 - ICON0066).
2. THE EXISTING 16 INCH, 200 PSIG CS (1962) MAIN IS DEEMED A CRITICAL MAIN.
3. IF SUFFICIENT COVER IS NOT AVAILABLE FOR CONNECTION E AND/OR G, CONTACT ENGINEERING FOR A DESIGN REVISION.
4. DO NOT ABANDON EXISTING 2 INCH, 60 PSIG COATED STEEL (1930) IN OLD BRIDGE RD UNTIL MC-I AND MC-J ARE COMPLETED.
5. DO NOT TIE 2 INCH, 60 PSIG PL MAIN INTO EXISTING 16 INCH, 200 PSIG CS (1962) CRITICAL MAIN.
6. REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.

SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

PROFILE NOTES:

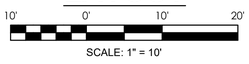
1. PER CS-CNST002-MA (SEE SH 19), PROPOSED GAS MAIN TO MAINTAIN A MINIMUM OF 12" PERPENDICULAR CLEARANCE BETWEEN OTHER UTILITIES. IF A MINIMUM OF 12" PERPENDCULAR CLEARANCE CANNOT BE ATTAINED, PROTECT THE GAS LINE PER STANDARD.
2. PER CNST-6030-MA-RI (SEE SH 19), PROPOSED GAS MAINS OPERATING AT LESS THAN 125 PSIG MUST MAINTAIN TWO FEET (2') OF COVER IN A NON STATE ROAD. SEE GENERAL CONSTRUCTION NOTE #4 IF TWO FEET (2') OF COVER CANNOT BE ATTAINED.
3. EXISTING FOREIGN UTILITIES CAN BE SUPPORTED PER SUPPORT DETAILS PROVIDED ON SH 18 WHEN PROPOSED MAIN CROSSES UNDER OTHER UTILITIES.
4. SEE SH 18 FOR EXAMPLE CROSSING LEGEND.
5. SEE LAYOUT FOR INVERT INFORMATION ON EXISTING UTILITIES. EXISTING UTILITY LINES LABELED AS ASSUMED ON PROFILE WERE UNABLE TO BE FIELD VERIFIED UNLESS OTHERWISE NOTED:
   - EX. GAS LINES ASSUMED DEPTH OF COVER 3'
   - EX. WATER/STORM LINES ASSUMED DEPTH OF COVER 5'
   - EX. SANITARY SEWER LINES ASSUMED DEPTH OF COVER 7'
   - EX. TELEPHONE/CABLE LINES ASSUMED DEPTH OF COVER 2.5'
   - EX. ELECTRIC LINES ASSUMED DEPTH OF COVER 3'



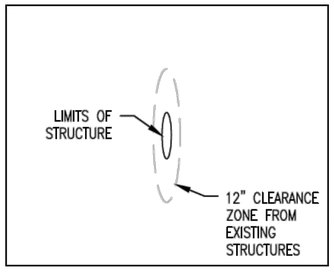


PROFILE

LAYOUT



EXAMPLE CROSSING LEGEND



153 CORDAVILLE RD, SUITE 210
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PHONE (781) 395-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP: COMMONWEALTH OF MASSACHUSETTS — MARK E. PETROSKI — 7/22/2024 — CIVIL — NO. 54037 — REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

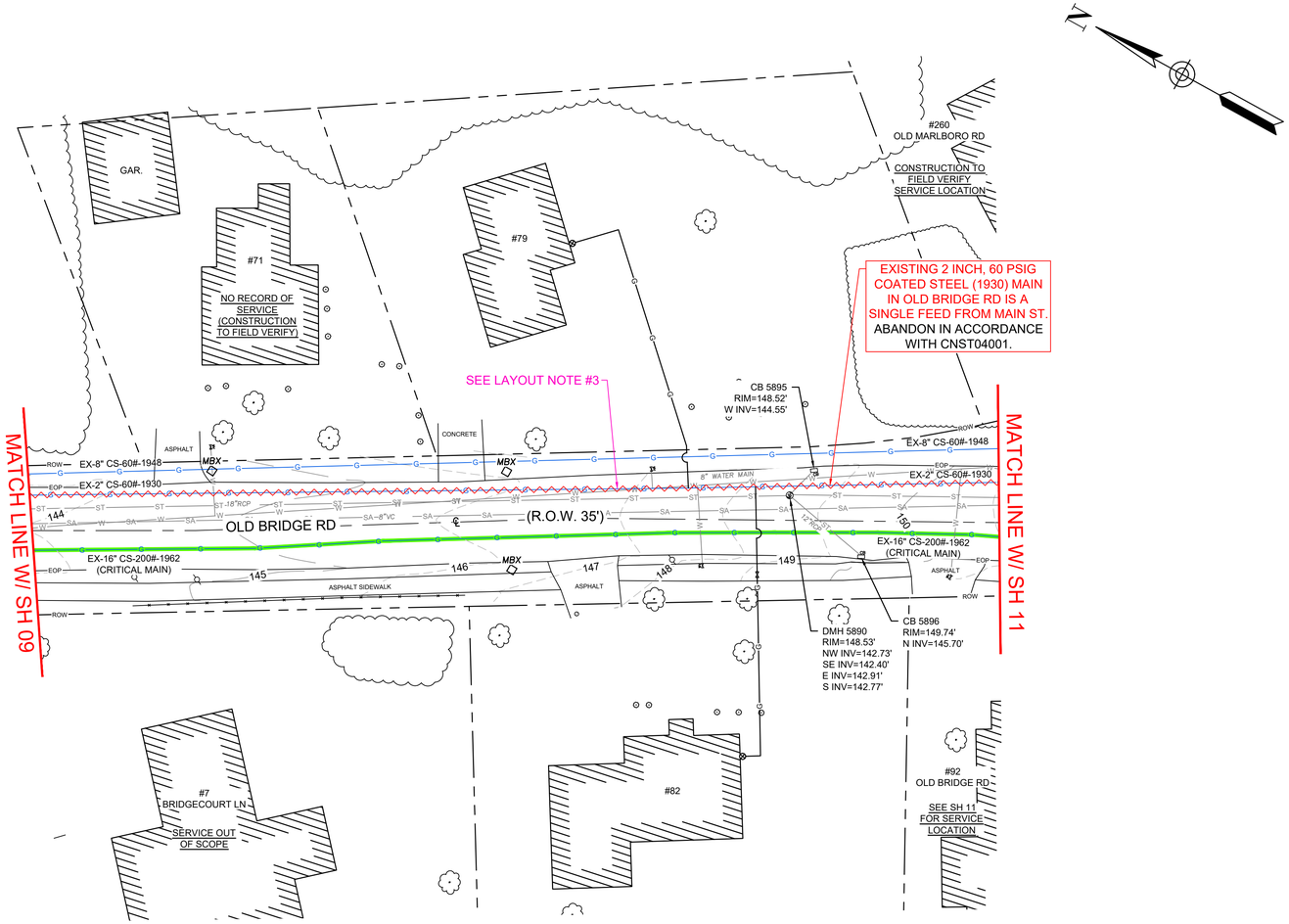
BRIDGECOURT LN - LAYOUT & PROFILE

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

LAYOUT NOTES:

1. **ABANDON 2IN, 60# CS MAIN (1930 - NCON0000) IN OLD BRIDGE RD AND TRANSFER SERVICES TO EXISTING PARALLEL 8IN, 60# CS MAIN (1948 - ICON0066).**
2. **THE EXISTING 16 INCH, 200 PSIG CS (1962) MAIN IS DEEMED A CRITICAL MAIN.**
3. **DO NOT ABANDON EXISTING 2 INCH, 60 PSIG COATED STEEL (1930) IN OLD BRIDGE RD UNTIL MC-I AND MC-J ARE COMPLETED.**
4. **REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.**

SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.



20' 0' 20' 40'
1" = 20'

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COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

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1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

OLD BRIDGE RD - LAYOUT

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-007	10

LAYOUT NOTES:

1. **ABANDON 2IN, 60# CS MAIN (1930 - NCON0000) IN OLD BRIDGE RD AND TRANSFER SERVICES TO EXISTING PARALLEL 8IN, 60# CS MAIN (1948 - ICON0066).**
2. **THE EXISTING 16 INCH, 200 PSIG CS (1962) MAIN IS DEEMED A CRITICAL MAIN.**
3. **DO NOT ABANDON EXISTING 2 INCH, 60 PSIG COATED STEEL (1930) IN OLD BRIDGE RD UNTIL MC-I AND MC-J ARE COMPLETED.**
4. **REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.**

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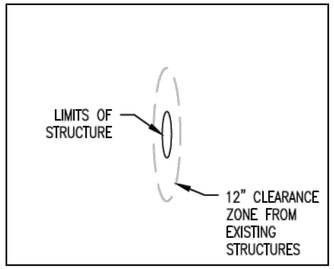
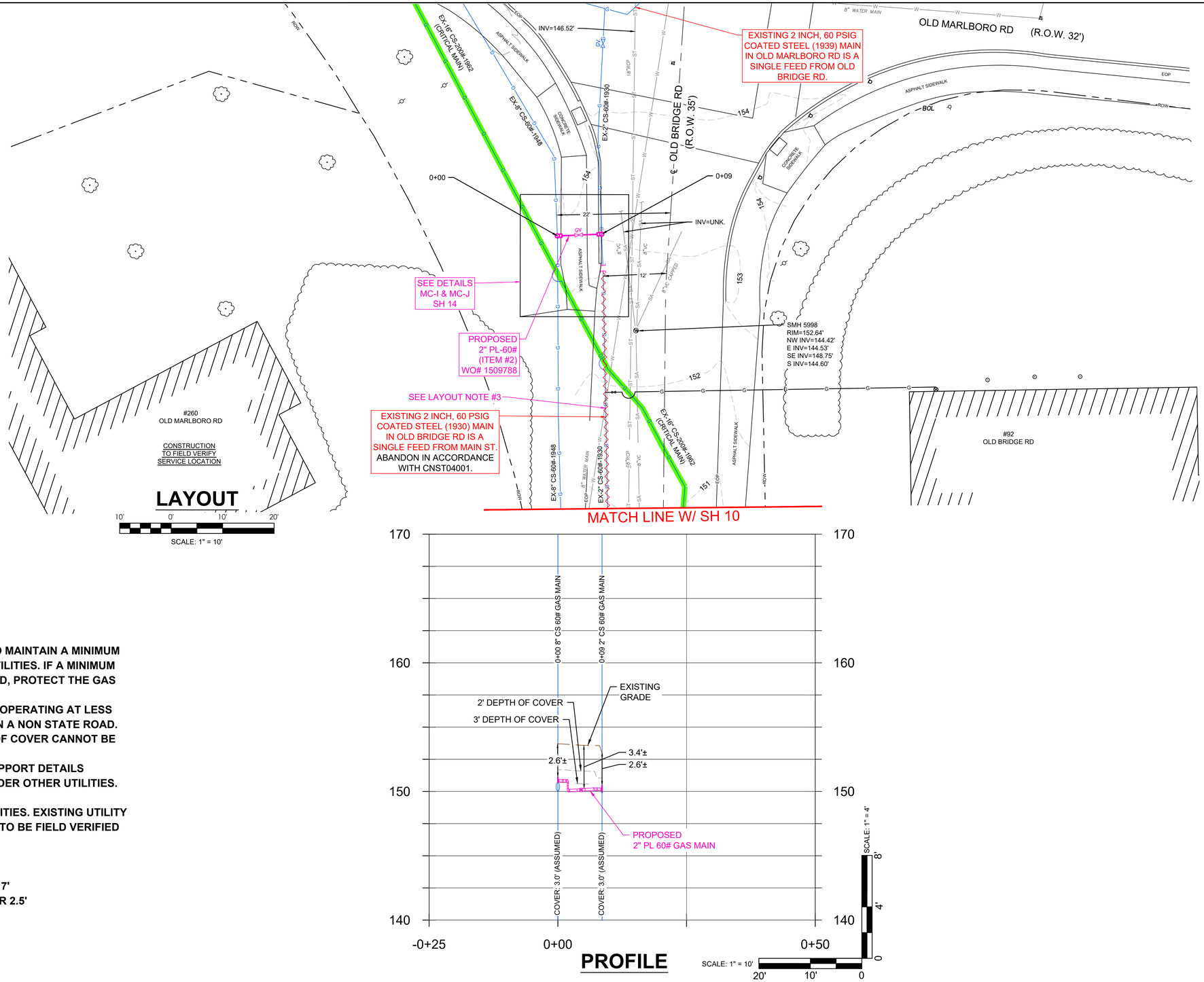
EXAMPLE CROSSING LEGEND





PROFILE NOTES:

1. **PER CS-CNST002-MA (SEE SH 19), PROPOSED GAS MAIN TO MAINTAIN A MINIMUM OF 12" PERPENDICULAR CLEARANCE BETWEEN OTHER UTILITIES. IF A MINIMUM OF 12" PERPENDCULAR CLEARANCE CANNOT BE ATTAINED, PROTECT THE GAS LINE PER STANDARD.**
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4. **SEE SH 18 FOR EXAMPLE CROSSING LEGEND.**
5. **SEE LAYOUT FOR INVERT INFORMATION ON EXISTING UTILITIES. EXISTING UTILITY LINES LABELED AS ASSUMED ON PROFILE WERE UNABLE TO BE FIELD VERIFIED UNLESS OTHERWISE NOTED:**
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   - **EX. WATER/STORM LINES ASSUMED DEPTH OF COVER 5'**
   - **EX. SANITARY SEWER LINES ASSUMED DEPTH OF COVER 7'**
   - **EX. TELEPHONE/CABLE LINES ASSUMED DEPTH OF COVER 2.5'**
   - **EX. ELECTRIC LINES ASSUMED DEPTH OF COVER 3'**

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IFC

PE STAMP: COMMONWEALTH OF MASSACHUSETTS MARK E. PETROSKI 7/22/2024 CIVIL NO. 54037 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
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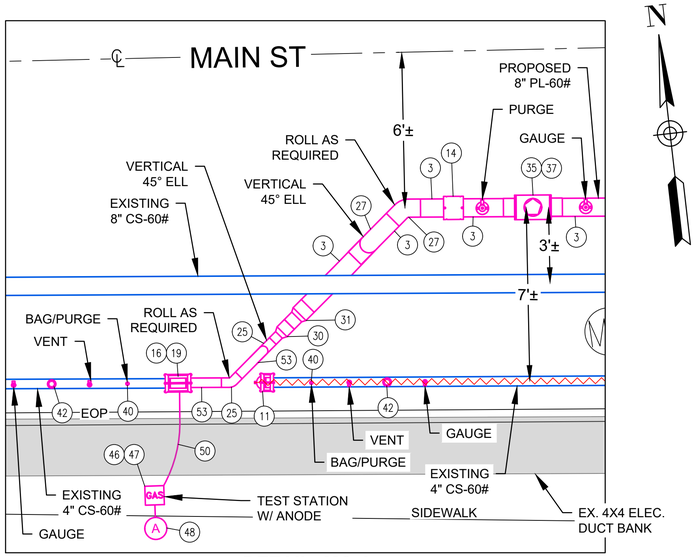
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

OLD BRIDGE RD - LAYOUT & PROFILE

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-008	11

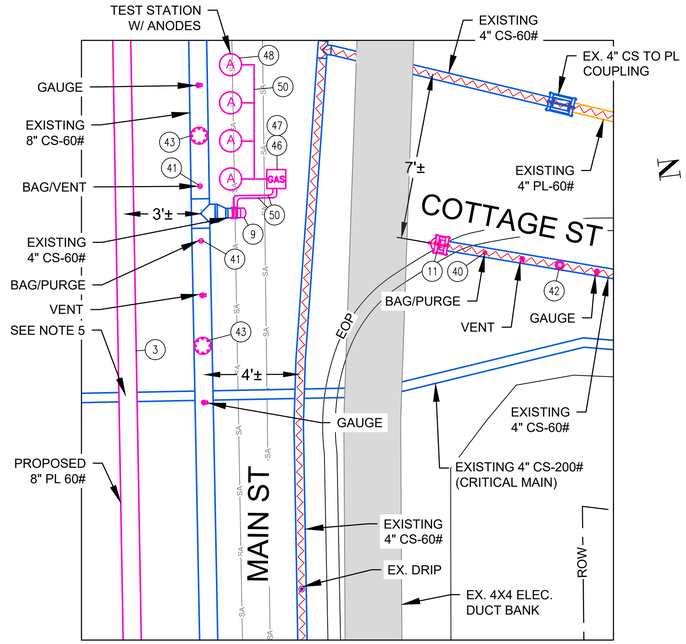


DETAIL: MC-A

(MAIN ST)

SCALE - 1:3

SEE NOTE 1

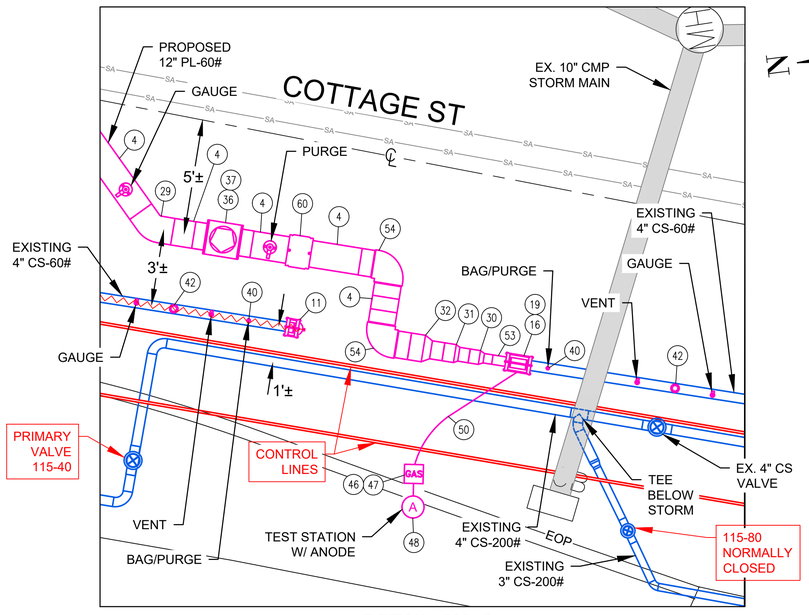


DETAIL: CC-B

(COTTAGE ST & MAIN ST)

SCALE - 1:3

SEE NOTES 2, 3, & 5

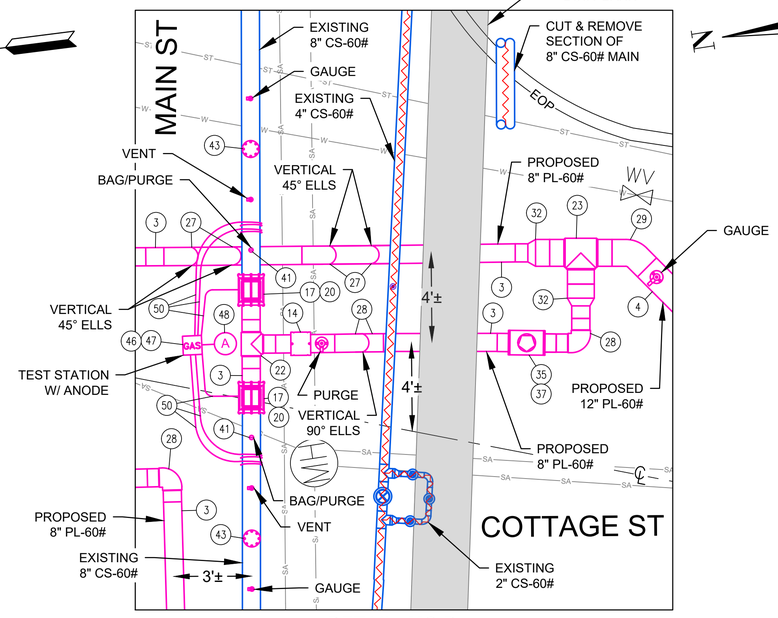


DETAIL: MC-C

(COTTAGE ST)

SCALE - 1:3

SEE NOTES 1 & 3



DETAIL: MC-D

(COTTAGE ST & MAIN ST)

SCALE - 1:3

SEE NOTES 3 & 4

DETAIL NOTES:

1. **INSTALL A 1-WIRE TEST STATION TO THE PROPOSED INSULATED COUPLING (PIPE END SPACER AND INSULATOR SLEEVE FACING THE STEEL) BY USING THE CLIP ON THE COUPLING. INCLUDE 1-17 LB ANODE SPACED AT LEAST 1 FT BELOW THE MAIN. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.**
2. **INSTALL A 2-WIRE TEST STATION TO THE EXISTING 4 INCH, COATED STEEL 60 PSIG (1962) MAIN. INCLUDE 4-17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. *NCON0000***
3. **CONSTRUCTION TO CONTACT I&R PRIOR TO WORKING WITHIN 200' OF REGULATOR STATION #115. CONTACT OPERATIONS ENGINEERING, GAS CONTROL, AND I&R FOR POTENTIAL NEED TO SHUT DOWN THE STATION. FIELD VERIFY LOCATION OF ALL CONTROL AND SENSE LINES PRIOR TO STARTING ANY CONSTRUCTION IN THE AREA. SEE SHEET #20 FOR EXISTING REGULATOR STATON FLOW DIAGRAM.**
4. **INSTALL A 6-WIRE TEST STATION ACROSS THE NEW FULL PLASTIC TEE TO THE EXISTING 8"-CS-60# (1948) MAIN, TWO WIRES AT EACH COATED STEEL/PLASTIC INTERFACE AND ONE WIRE TO EACH INSULATED COUPLING. INCLUDE 1-17 LB ANODE SPACED AT LEAST 1 FT BELOW THE MAIN. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. *ICON0066***
5. **DO NOT TIE 8 INCH, 60 PSIG PL MAIN INTO EXISTING 4 INCH, 200 PSIG CS (1962) CRITICAL MAIN.**
6. **REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.**
7. **ANY EXISTING UTILITIES SHOWN TO SCALE WITHIN TIE-IN DETAILS ARE CROSSING OVER PROPOSED GAS MAIN. ALL OTHER SINGLE LINE EXISTING UTILITIES ARE AT DEPTHS BELOW PROPOSED GAS MAIN. SEE PROFILE VIEWS FOR MORE DETAIL.**

3' 0' 3' 6'

1"=3'

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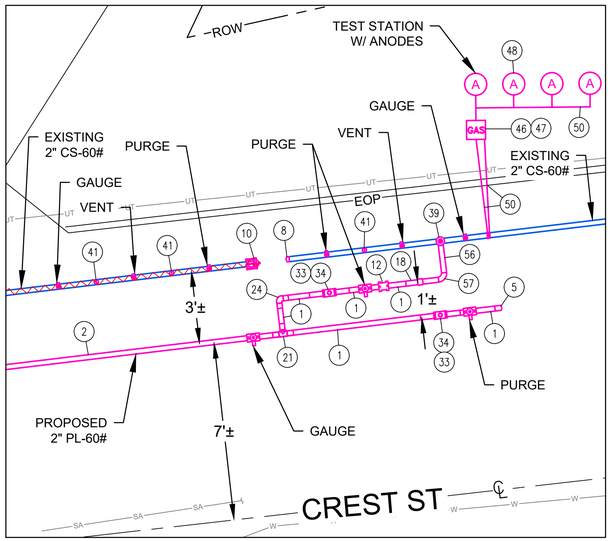
21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

TIE-IN & ABANDONMENT DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-101	12

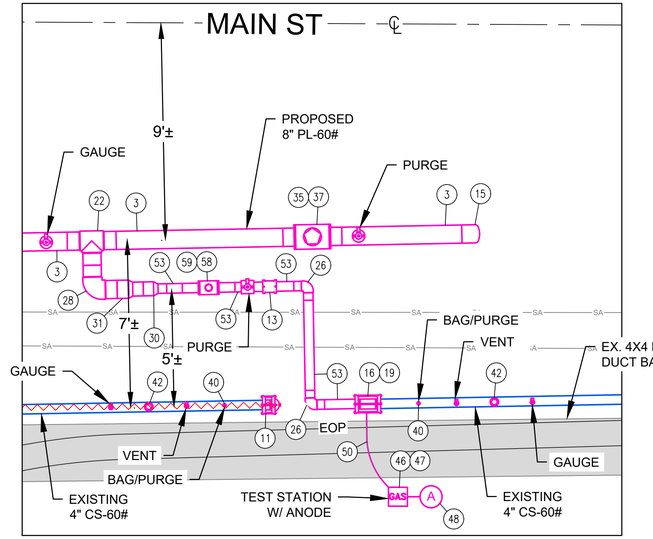


DETAIL: MC-E

(CREST ST)

SCALE - 1:3

SEE NOTES 2 & 3



DETAIL: MC-F

(MAIN ST)

SCALE - 1:3

SEE NOTE 4

DETAIL: MC-G

(OLD BRIDGE RD & BRIDGECOURT LN)

SCALE - 1:3

SEE NOTES 1, 2, 6, & 10

DETAIL: MC-H

(OLD BRIDGE RD & BRIDGECOURT LN)

SCALE - 1:3

SEE NOTES 5, 7, & 10

DETAIL NOTES:

1. ELECTROFUSION CAPS (ITEM #6) CAN BE USED AS ALTERNATE TO BUTT FUSE CAPS (ITEM #5) WITH ELECTROFUSION COUPLINGS (ITEM #12).
2. IF SUFFICIENT COVER NOT AVAILABLE FOR CONNECTION, CONTACT ENGINEERING FOR A DESIGN REVISION.
3. INSTALL A 2-WIRE TEST STATION TO THE EXISTING 2 INCH, COATED STEEL 60 PSIG (1930) MAIN AT THE STEEL/PLASTIC INTERFACE.INCLUDE 4-17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. *NCON0000*
4. INSTALL A 1-WIRE TEST STATION TO THE PROPOSED INSULATED COUPLING (PIPE END SPACER AND INSULATOR SLEEVE FACING THE STEEL) BY USING THE CLIP ON THE COUPLING. INCLUDE 1-17 LB ANODE SPACED AT LEAST 1 FT BELOW THE MAIN. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.
5. INSTALL A 2-WIRE TEST STATION TO THE EXISTING 8 INCH, 60 PSIG COATED STEEL (1948) MAIN AT THE COATED STEEL/PLASTIC INTERFACE. NO ANODES REQUIRED. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. *ICON0066*
6. IF EXISTING 2" PL VALVE (TO BE USED FOR ISOLATION) IS NOT OPERATING TO NATIONAL GRID STANDARDS, SQUEEZE OFF MAIN IN ACCORDANCE WITH CNST03001.
7. THE PROPOSED 2"-PL-60# IN THE INTERSECTION OF OLD BRIDGE RD & BRIDGECOURT LN WILL BE A SINGLE FEED MAIN ONCE COMPLETED.
8. REFER TO DRAWING G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.
9. ANY EXISTING UTILITIES SHOWN TO SCALE WITHIN TIE-IN DETAILS ARE CROSSING OVER PROPOSED GAS MAIN. ALL OTHER SINGLE LINE EXISTING UTILITIES ARE AT DEPTHS BELOW PROPOSED GAS MAIN. SEE PROFILE VIEWS FOR MORE DETAIL.
10. SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

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1"=3'

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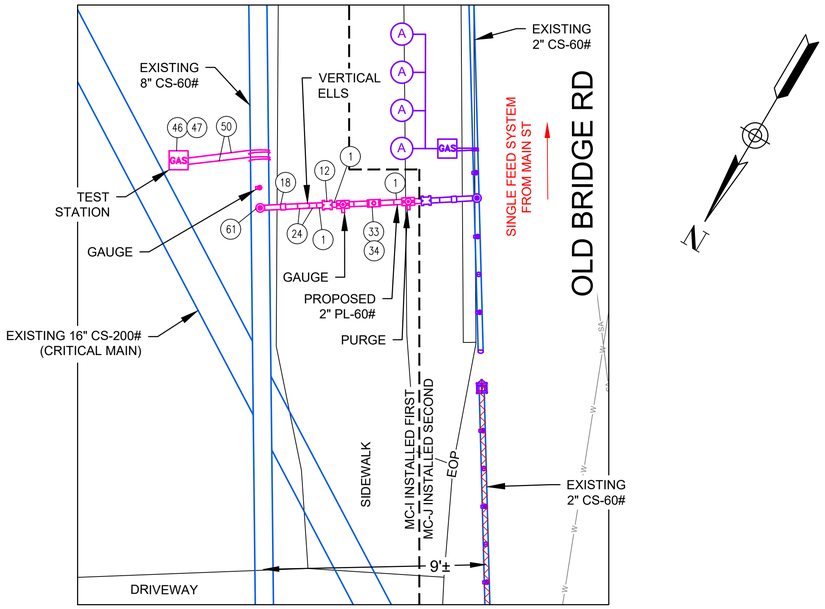
21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

TIE-IN & ABANDONMENT DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-102	13

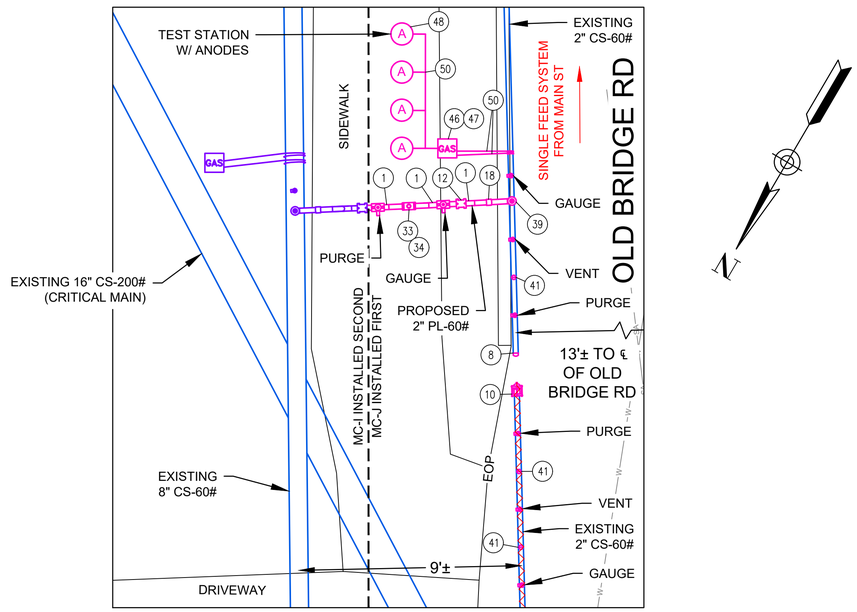


DETAIL: MC-I

(OLD BRIDGE RD)

SCALE - 1:3

SEE NOTES 2, 5, & 6



DETAIL: MC-J

(OLD BRIDGE RD)

SCALE - 1:3

SEE NOTE 1, 5, & 7

DETAIL NOTES:

1. **INSTALL A 2-WIRE TEST STATION TO THE EXISTING 2 INCH, COATED STEEL 60 PSIG (1930) MAIN AT THE STEEL/PLASTIC INTERFACE.INCLUDE 4-17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. *NCON0000***
2. **INSTALL A 2-WIRE TEST STATION TO THE EXISTING 8 INCH, 60 PSIG COATED STEEL (1948) MAIN AT THE COATED STEEL/PLASTIC INTERFACE. NO ANODES REQUIRED. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. *ICON0066***
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4. **ANY EXISTING UTILITIES SHOWN TO SCALE WITHIN TIE-IN DETAILS ARE CROSSING OVER PROPOSED GAS MAIN. ALL OTHER SINGLE LINE EXISTING UTILITIES ARE AT DEPTHS BELOW PROPOSED GAS MAIN. SEE PROFILE VIEWS FOR MORE DETAIL.**
5. **SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.**
6. **MC-I APPLIES IF INSTALLED PRIOR TO MC-J. IF MC-I IS NOT INSTALLED PRIOR TO MC-J, SEE NOTE 7 AND MC-J.**
7. **MC-J APPLIES IF INSTALLED PRIOR TO MC-I. IF MC-J IS NOT INSTALLED PRIOR TO MC-I, SEE NOTE 6 AND MC-I.**

3' 0' 3' 6'

1"=3'

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
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PHONE (781) 385-4644

BOSTON GAS COMPANY
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170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

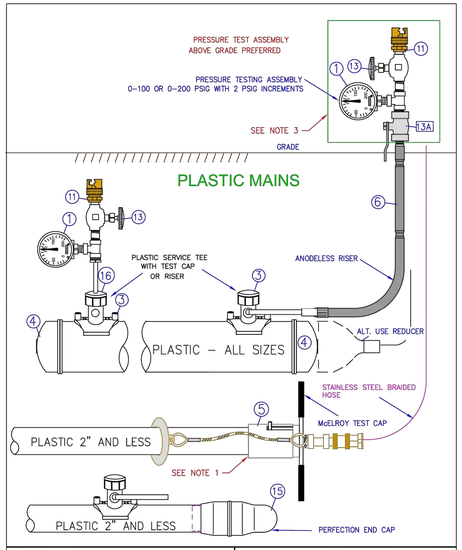
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

TIE-IN & ABANDONMENT DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-103	14



nationalgrid	ALL REGIONS	PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS	
Key Changes: UPDATED ITEM ID'S	DATE: 7/15/2013	EFFECTIVE DATE: 02/10/2021	
	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO.	**CS-MAIN004**
	DRAWN: P.G.		

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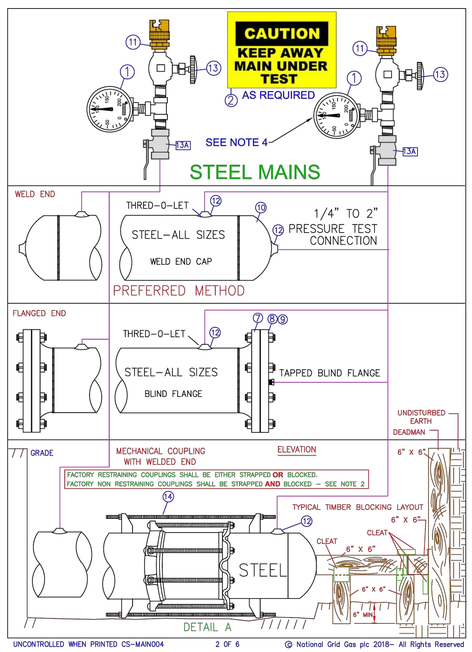

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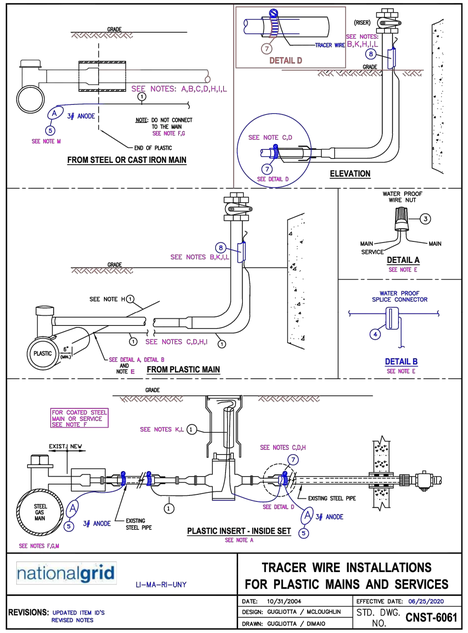

nationalgrid	LI–MA–RI–UNY	TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES	
REVISIONS: UPDATED ITEM ID'S REVISED NOTES	DATE: 10/31/2004	EFFECTIVE DATE: 06/20/2020	
	DESIGN: GUGLIOTTA / MCLOUGHLIN	STD. DWG. NO.	**CNST-6061**
	DRAWN: GUGLIOTTA / DMAIO		

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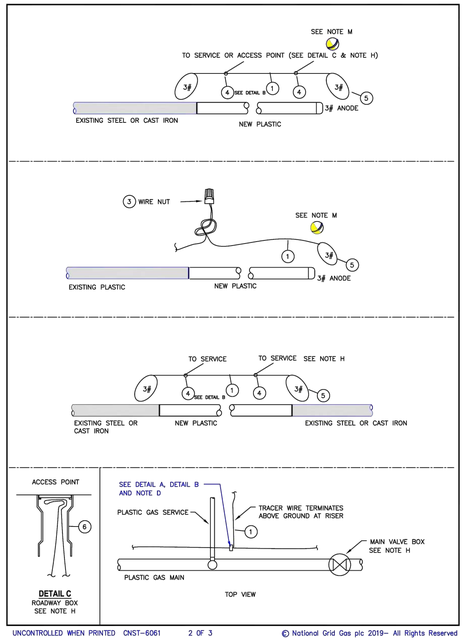

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		LI/NYC/ MASS	UNY/RI
8	TRACER WIRE SNAP, 2" (represents steel size)	9386134	9386134
8	TRACER WIRE SNAP, 1 ½" (represents steel size)	9386156	9386156
8	TRACER WIRE SNAP, 1" (represents steel size)	9386150	9386150
8	TRACER WIRE SNAP, ¾" (represents steel size)	9385568	9385568
7	CLAMP, STAINLESS	9331708	9307873
6	VALVE BOX, ROADWAY	9339890	9312344 UNY 9311208 RI
5	ANODE, 3 LB MAGNESIUM	9315645	9315645
4	WIRE SPLICE CONNECTOR, WATERPROOF	9308036	9308036
3	WIRE NUT, PLASTIC, WATERPROOF	9331644	9314631
2	WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG	9314187	9314187
1	TRACER WIRE, DIRECT BURY, COPPER, 12 AWG	9315005	9315005
NO.	**ITEM**	**SAP ITEM ID**	
	BILL OF MATERIAL		

A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", Item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut out sections of the steel pipe to be inserted with plastic, shall be connected using a section of tracer wire to maintain continuity. If the existing service is coated steel , see Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [COR04003] or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See Installation of Test Stations for Cathodic Protection [030026-CS].

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with Installing Wire Connections [COR04004].

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [COR04003] or contact corrosion department for more guidance.

G. Cast Iron or Bare steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a 3# anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA- Above or alongside, UNY- alongside, RI-Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the riser.

J. For horizontal directional drill installations, use stainless wire, item #2.

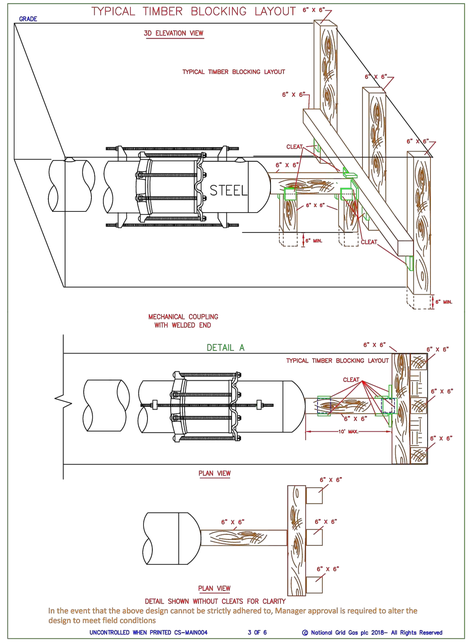
K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a 3# anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

Regional Notes

NYC ONLY: refer to Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services [CNST6060-NYC] for installation of electronic marker ball in place of tracer wire.



In the event that the above design cannot be strictly adhered to, Manager approval is required to alter the design to meet field conditions

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NOTES:
1. INSTALL PER MCELROY MANUFACTURER'S INSTRUCTIONS.
2. WHEN USING MECHANICAL COUPLINGS (AS SHOWN IN DETAIL A), NON-RESTRAINING COUPLING SHALL BE STRAPPED AND THE ENDS SHALL BE BLOCKED PER APPROVED STANDARD DRAWINGS. RESTRAINING COUPLINGS NEED TO BE EITHER STRAPPED OR BLOCKED. **WHEN USING RESTRAINING COUPLINGS, STRAPPING NUTS SHOULD BE HAND TIGHT.**
2A. ON EXISTING STEEL SYSTEMS: REFER TO THE TABLE BELOW FOR THE MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL. IF A BURIED, UNSTRAPPED COUPLING EXISTS AT A DISTANCE LESS THAN THE MINIMUM SAFE EMBEDMENT DISTANCE FROM THE WALL, THEN BLOCKING IS REQUIRED FOR THE PRESSURE TEST. IF AN ALL WELDED SYSTEM CAN NOT BE CONFIRMED, THE WELDED OR FLANGED ENDS SHALL BE BLOCKED

PIPE SIZE (INCHES)	MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL (FEET)
2	5
3	8
4	12
6	24
8	41
12	70

REFER TO CONSTRUCTION STANDARD FITS-6025 AND FITS-6015 FOR LIST OF COUPLINGS.

3. IT IS RECOMMENDED THAT THE GAUGE ASSEMBLY BE ABOVE GRADE TO PREVENT PERSONNEL FROM ENTERING THE TRENCH WHILE THE PRESSURE TEST IS UNDERWAY.
4. ONE PRESSURE TEST GAUGE AT EACH PIPE END IS RECOMMENDED TO VERIFY THE PRESSURE. ALL GAUGES SHALL BE 0-100 OR 0-200 PSIG RANGE (2 PSIG INCREMENTS REQ'D IN NY STATE ONLY)
5. REFER TO CNST04003 "*PRESSURE TESTING OF MAINS OPERATING BELOW 125 PSIG*" FOR TESTING AND DESIGN REQUIREMENTS.

ITEM	DESCRIPTION	SAP ITEM ID LI / MA / NYC	SAP ITEMS RI AND UNY
1	**PRESSURE GAUGE 0-100 OR 0-200 PSIG – 2 PSI INCREMENTS**		
	0-200 PSIG STAINLESS STEEL ¼" NPT 3-1/2" DIAL	9354865	TOOL ITEM
	0-200 PSIG STAINLESS STEEL ¼" NPT 2-1/2" DIAL	9358390	TOOL ITEM
	0-100 PSIG STAINLESS STEEL ¼" NPT	NON STOCK	TOOL ITEM
2	**SIGN – WARNING PRESSURE TEST (AS REQUIRED IN FIELD)**	9332240	NON STOCK
3	**TEE SERVICE – ELECTROFUSION YELLOW MID 1/2" CTS BUTT FUSE OUTLET**		
	2" MAIN X ½" BUTT FUSE OUTLET LI/MA/NY/NYC	9342517 2X1/2	NON STOCK
	4" MAIN X ½" BUTT FUSE OUTLET LI/MA/NY/NYC	9342518 4X1/2	NON STOCK
	6" MAIN X ½" BUTT FUSE OUTLET LI/MA/NY/NYC	9342516 6X1/2	NON STOCK
	8" MAIN X ½" BUTT FUSE OUTLET LI/MA/NY/NYC	9342371 8X1/2	NON STOCK
	TEE SERVICE – ELECTROFUSION YELLOW MID 1" CTS BUTT FUSE OUTLET		
	1-1/4" MAIN X 1" OUTLET LI	9342332 1-1/4 X 1	NON STOCK
	2" MAIN X 1" OUTLET LI	9342519 2X1	NON STOCK
	4" MAIN X 1" OUTLET LI	9342521 4X1	NON STOCK
	6" MAIN X 1" OUTLET LI	9342328 6X1	NON STOCK
	8" MAIN X 1" OUTLET LI	9342372 8X1	NON STOCK
	TEE SERVICE – ELECTROFUSION BLACK HD 1" IPS BUTT FUSE OUTLET		
	2" MAIN X 1" IPS OUTLET MASS	9322653 2X1	NON STOCK
	3" MAIN X 1" IPS OUTLET MASS	9322628 3X1	NON STOCK
	4" MAIN X 1" IPS OUTLET MASS	9322620 4X1	NON STOCK
	6" MAIN X 1" IPS OUTLET MASS	9322626 6X1	NON STOCK
	8" MAIN X 1" IPS OUTLET MASS	9323497 8X1	NON STOCK
	12" MAIN X 1" IPS OUTLET LI, NYC, MA	9351831 12X1	NON STOCK
	TEE SERVICE – SADDLE FUSION HIGH DENSITY BLACK 1/2" CTS BUTT FUSE		
	2" MAIN X 1/2" OUTLET LI	9342405 2X1/2	NON STOCK
	4" MAIN X 1/2" OUTLET LI	9342406 4X1/2	NON STOCK
	6" MAIN X 1/2" OUTLET LI	9342407 6X1/2	NON STOCK
	8" MAIN X 1/2" OUTLET LI	9342408 8X1/2	NON STOCK
	TEE SERVICE – SADDLE FUSION HIGH DENSITY BLACK 1" CTS BUTT FUSE		
	2" MAIN X 1" OUTLET LI	9342409 2X1 SDR 9	9315907 2X1
	4" MAIN X 1" OUTLET LI	9342429 4X1 SDR 9	9315964 4X1
	6" MAIN X 1" OUTLET LI	9342430 6X1 SDR 9	9315963 6X1
	8" MAIN X 1" OUTLET LI	9342431 8X1 SDR 9	9315962 8X1
	12" MAIN X 1" OUTLET	NON STOCK	9314629 12X1
	TEE SERVICE MECHANICAL X PERFECTION OUTLET		
	2" MAIN X 1/2" OUTLET	NON STOCK	9308584 2X1/2
	4" MAIN X 1/2" OUTLET	NON STOCK	9308583 4X1/2
	6" MAIN X 1/2" OUTLET	NON STOCK	9308472 6X1/2
	8" MAIN X 1/2" OUTLET	NON STOCK	9308471 8X1/2
	2" MAIN X 1" OUTLET	9315492 2X1	9315492 2X1
	3" MAIN X 1" OUTLET	9382123 3X1	N/A
	4" MAIN X 1" OUTLET	9315490 4X1	9315490 4X1
	6" MAIN X 1" OUTLET	9308473 6X1	9308473 6X1
	8" MAIN X 1" OUTLET	9306178 8X1	9306178 8X1

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ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA/ NYC	PEOPLESOFT ITEM RI AND UNY
4	**CAP END PLASTIC MEDIUM DENSITY YELLOW BUTT FUSE**		
	2" SDR11	2" 9339540	NON STOCK
	3" SDR 11	3" 9339541	NON STOCK
	4" SDR 11	4" 9339534	NON STOCK
	6" SDR 11	6" 9339733	NON STOCK
	8" SDR 13.5	8" 9339559	NON STOCK
	12" SDR.11.5	12" 9339560	NON STOCK
	CAP END PLASTIC HIGH DENSITY BLACK BUTT FUSION		
	2" SDR 9	2" 9339538	NON STOCK
	4" SDR 9	4" 9339535	NON STOCK
	6" SDR 9	6" 9339536	NON STOCK
	8" SDR 9	8" 9339537	NON STOCK
	2" SDR 11 MASS RI & UNY	2" 9312686	2" 9312686
	3" SDR 11 MASS RI & UNY	3" 9310276	3" 9310276
	4" SDR 11 MASS RI & UNY	4" 9312685	4" 9312685
	6" SDR 11 MASS RI & UNY	6" 9312684	6" 9312684
	8" SDR 11 MASS RI	8" 9310272	8" 9310272
	12" SDR 11 RI UNY	NON STOCK	12" 9308729
	8" SDR 13.5 RI	NON STOCK	8" 9312683
	12" SDR 13.5 RI	NON STOCK	12" 9314605
5	**McELROY TEST CAPS** (165 PSIG MAX)	NON STOCK	NON STOCK
	1-1/4" MODEL TP	TP-308	TP-308
	2" MODEL TP-310	TP-310	TP-310
6	**RISER**		
	1" CTS MEDIUM DENSITY X ½" NPT OUTLET	9344366	NON STOCK
	1" CTS MEDIUM DENSITY X 1-1/4" IPS OUTLET	9340874	NON STOCK
	1" HIGH DENSITY X 1-1/4" OUTLET	9340853	NON STOCK
	1" CST SERVASET X 1" OUTLET	9322627	NON STOCK
	1" CTS HIGH DENSITY .090" WALL X 1" IPS STEEL OUTLET	NON STOCK	9316405
	½" CTS .090" WALL PERFECTION END X ½" NPT STEEL	NON STOCK	9310295
	1-1/4" CTS .090" WALL PERFECTION END X 1-1/4" NPT STEEL	NON STOCK	9306180
	OR TEST CAPS WITH STEEL OR PLASTIC PIPE TO TEST TREE	00311110 OR TOOL	TOOL ROOM
	TEST CAP FOR CENTRAL PLASTIC ELECTROFUSE TAPPING TEE	ROOM ITEM	ITEM
7	**FLANGE 150# WELD END FLAT FACE**		
	2"	9314322 2"	9314322
	3"	9314431 3"	9314431
	4"	9314430 4"	9314430
	6"	9308659 6"	9308659
	8"	9308748 8"	9308748
	12"	9308660 12"	9308660
	16"	9322363 MA 16"	NON STOCK
	20"	9322362 MA 20"	NON STOCK
8	**BLIND FLANGE CLASS 150# ASTM A-105**		
	2" FLAT FACE WITH ¼" CENTER NPT TAP	9314434 2"	NON STOCK
	3" FLAT FACE WITH ¼" CENTER NPT TAP	9314014 3"	NON STOCK
	4" FLAT FACE WITH ¼" CENTER NPT TAP	9314435 4"	NON STOCK
	6" FLAT FACE WITH ¼" CENTER NPT TAP	9340942 6"	NON STOCK
	2" FLAT FACE	9382074 2"	9308662
	3" FLAT FACE	9307751 3"	9307751
	4" FLAT FACE	9306252 4"	9306252
	6" FLAT FACE	9385747 6"	9306518
	8" FLAT FACE	9307750 8"	9307750
	12" FLAT FACE	9308749 12"	9308749
9	**GASKETS**		
	2" FLAT FACE 150#	9333167 2"	9315688
	3" FULL FACE 150#	9341158 3"	9312067
	4" FULL FACE 150#	9341159 4"	9312569
	6" FULL FACE 150#	9332599 6"	9312568
	8" FULL FACE 150#	9341168 8"	9315689
	12" RING TYPE 150#	9341165 12"	NON STOCK

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ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA / NYC	PEOPLESOFT ITEM RI AND UNY
10	**END CAPS – STEEL WELD END STANDARD WALL –GRADE B**		
	2"	9312095 2"	9312095
	3"	9308719 3"	9308719
	4"	9312096 4"	9312096
	6"	9312094 6"	9312094
	8"	9312093 8"	9312093
	10"	9315182 10"	9315182
	12"	9312092 12"	9312092
	16"	9314824 16"	9314824
	20"	9339687 20"	9314823
11	**THOR FITTING**	-	-
	½" MALE NPT X HOSE CONNECTION	00504089	NON STOCK
	¾" FEMLAE X HOSE CONNECTION	00504301	NON STOCK
12	**THRED-O-LET**	-	-
	1/2" – 6" X ¾" 3000# PER ASTM A-105 GRADE B	9341652 12-6X3/4	NON STOCK
	1/2" – 6" X 1" 3000# PER ASTM A-105 GRADE B	9341656 10-6X1	NON STOCK
	36" – 12" X 1" 3000# PER ASTM A-105 GRADE B	9342052 36-12X1	NON STOCK
	2" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307678 2X1
	10" – 6" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307695 10-6X1
	36"-14" X ¾" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307677 36-14X3/4
13	**VALVE**		
13A	**VALVE (OPTIONAL – TO SHUT OFF TEST ASSEMBLY)**		
14	**LUG ASSEMBLY**	9342211	NON STOCK
	7/8" X 24" LONG (LI ONLY - SEE MAIN-6210)	9342212	NON STOCK
	7/8"X 44"LONG (LI ONLY – SEE MAIN-6210)	9357904	NON STOCK
	LUG GREEN 3"- 8"MAIN 7/8" DIAM. (NYC ONLY – SEE MAIN-6230 & MAIN-6230)	9357905	NON STOCK
	LUG YELLOW 10"- 30" MAIN 1-1/16" DIAM. (NYC ONLY – SEE MAIN-6230& MAIN-6230)	9328152	NON STOCK
	ROD ½" X 12' LONG (NYC ONLY	9328150	NON STOCK
	ROD 1" X 12' LONG (NYC ONLY)	NON STOCK	9315741
	LUG ASSEMBLY ½"X 30" LONG	NON STOCK	0803641
15	**COUPLING – END 2" PERFECTION**	-	TOOL ROOM
16	**TEST CAP**	9325109	ITEM
	FOR SADDLE FUSION TEE – CENTRAL PLASTICS	9325017	
	FOR SADDLE FUSION TEE– JM EAGLE / POLY / UPONOR	9341368	
	FOR SADDLE FUSION TEE – PERFORMANCE PIPE TEES	9384268	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION CENTAL PLASTICS	9384174	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION– JM EAGLE / POLY/ UPONOR	9323715	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION PERFORMANCE PIPE TEES	9382494	
	FOR HVTT ELECTROFUSION TEE	9381846	
	FOR ELECTROFUSION TEE	9339561	
	FOR PERFECTION PMTT MECHANICAL TEE (CAP FITS ALL MAIN SIZE & OUTLET SIZES OF PMTTS)		

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IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

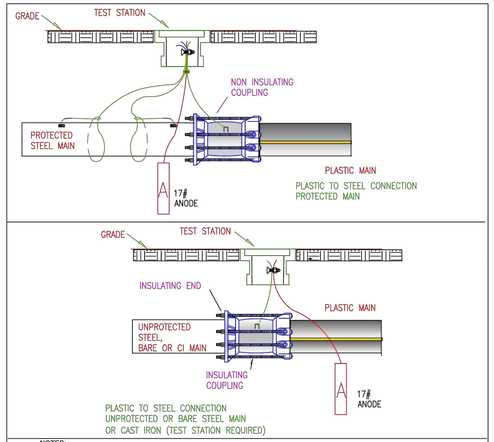
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

STANDARD DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-201	15



NOTES:
1. FOR COUPLING ITEM ID'S SEE FITS-6025.
2. INSTALL ANODE PER 030024-CS AND TEST STATION PER 030026-CS
3. COAT COUPLING PER FACILITY COATING GUIDE (030031-CS)
4. IF A METALLIC COUPLING (NON INSULATING OR INSULATING) IS USED TO JOIN PLASTIC TO PLASTIC IN AN EMERGENCY, AN ANODE AND TEST STATION SHALL BE INSTALLED.

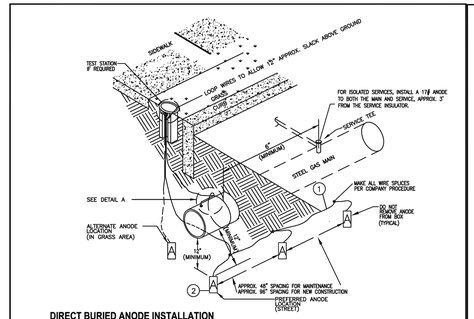
nationalgrid ALL REGIONS

ELECTRICAL ISOLATION REQUIREMENTS OF A METALLIC COUPLING INSTALLED TO TIE IN A PLASTIC PIPE TO A METALLIC PIPE

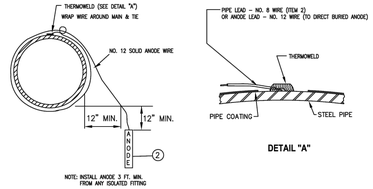
REVISIONS: NEW DRAWING

DATE: 05/05/2020	EFFECTIVE DATE: 05/05/2020
DESIGN: PAUL GUGLIOTTA	STD. DWG. NO. 030016-CS
DRAWN: PAUL GUGLIOTTA	

SHEET. 1 OF 1



DIRECT BURIED ANODE INSTALLATION



nationalgrid ALL REGIONS

INSTALLATION OF MAGNESIUM ANODES

REVISIONS: UPDATED NEW SP ITEM ID'S

DATE: 07/15/2010	EFFECTIVE DATE: 06/08/2020
DESIGN: PG	STD. DWG. NO. 030024-CS
APPROVAL: PS	

SHEET 1 OF 2

MATERIAL LIST

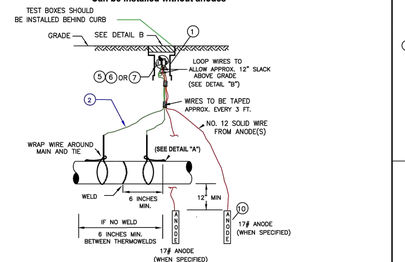
	Description	Down State NY Item I.D	Upstate NY Item I.D	New England Item I.D	Rhode Island Item I.D	MATERIAL NOTES
1	CABLE NO. 8 – 1/C	9334425	9311214	9334425	9311214	Upstate and RI cable has 19 strands
2	ANODE, MAGNESIUM 17 LB	9311183	9311183	9311183	9311183	
3	ANODE, MAGNESIUM 3 LB	9315645	9315645	9315645	9315645	Use on Tracer wire and all isolated fittings.
4	ANODE, MAGNESIUM SPIKE 3 LB	9308624	9308624	9308624	9308624	Use on Service Risers ONLY
*	CLAMP, GROUNDING 1/2IN - 1IN DIA.	9386544	9386544	9386544	9386544	Grounding clamp for attaching spike anode lead wire to service riser
*	CLAMP, GROUNDING 1-1/4IN - 2IN DIA.	9386559	9386559	9386559	9386559	Grounding clamp for attaching spike anode lead wire to service riser

* Spike Anode Ground Clamp

SHT. 2 OF 2 **030024-CS**

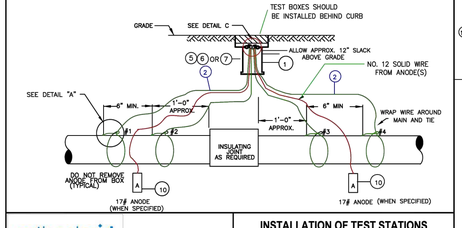
TWO WIRE TEST STATION WITH ANODE(S)

Can be installed without anodes



FOUR WIRE TEST STATION WITH ANODES

Can be installed without anodes



nationalgrid ALL REGIONS

INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION

REVISIONS: REVISED USING SAP ITEM ID'S

DATE: 07/15/2010	EFFECTIVE DATE: 09/15/2013
DESIGN: PG	STD. DWG. NO. 030026-CS
APPROVED: PS	

UNCONTROLLED WHEN PRINTED

1 OF 5

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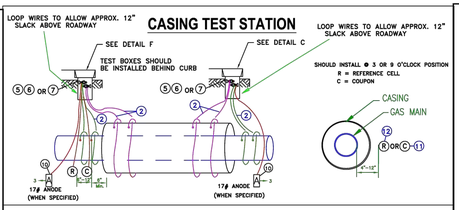
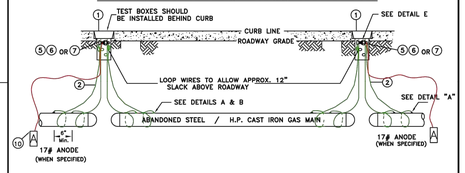
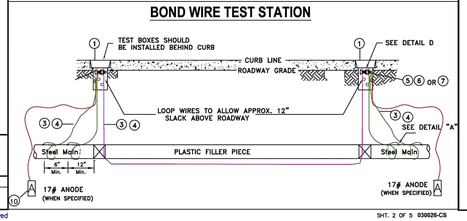
CASING TEST STATION



ABANDONED MAIN IN STRAY CURRENT AREAS



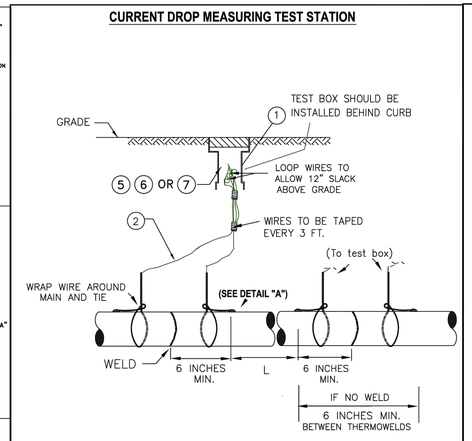
BOND WIRE TEST STATION



UNCONTROLLED WHEN PRINTED

SHT. 2 OF 5 **030026-CS**

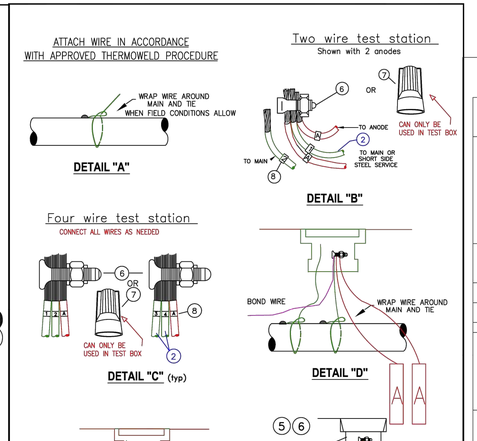
CURRENT DROP MEASURING TEST STATION



CURRENT DROP MEASURING TEST STATION SPACING

PIPE DIAMETER	"L"
3/4" – 4"	75'
6" – 10"	100'
12" AND OVER	125'

SHT. 3 OF 5 **030026-CS**



SHT. 4 OF 5 **030026-CS**

MATERIAL LIST

	Description	Down State NY Item I.D	Upstate NY Item I.D	New England Item I.D	Rhode Island Item I.D	MATERIAL NOTES
1	TEST BOX WITH COVER	9339892	9312291 UPSTATE BOXES COME IN ONE PIECE	9339892	(Sm - 445) 9311209 or (Lg - 556) in Prov. 9311208	NON LOCKING COVER. DISCARD FOOT PIECE.
	TEST BOX 9" SQUARE HEAVY DUTY	9339391		9339391		WEIGHS 95 LBS, STREET USE, WITHOUT COVER
	COVER FOR 9" SQUARE BOX	9339797		9339797		NON-LOCKING COVER
2	WIRE, NO. 8, 7 STRAND	9307539	9307539	9307539	9307539	TEST WIRE ONLY, NOT FOR GROUND BEDS, UPSTATE AND RI WIRE HAS 19 STRANDS
3	WIRE, NO. 6, 7 STRAND	9311795	9311795	9311795	9311795	BOND WIRE ONLY, NOT FOR GROUND BEDS
4	WIRE 1/0 – 19 STRAND 600 V –1/C	9334171	NON STOCK	9334171	NON STOCK	USE IN STRAY CURRENT AREAS
5	TAPE, PVC - ¾" WIDE	9334056	9316070	9334056	9316070	NOT FOR PIPE COATING.
6	CONNECTOR, SPLIT BOLT, TYPE 6	9331578	9316630	9331578	NON STOCK	USE WITH NO. 6 CABLE
	CONNECTOR, SPLIT BOLT, TYPE 1/01	9331612		9331612		USE WITH 1/0 CABLE
7	CONNECTOR, TWIST-ON WIRE NUT	9330683	9314631	9330683	9314631	
8	TAG, ADHESIVE NUMBER 1	9307918	9307918	9307918	9307918	LABEL WITH #1 (N) OR (E), CONSECUTIVELY TO (S) OR (W). SEE DETAILS "B" AND "C"
	NUMBER 2	9307896	9307896	9307896	9307896	
	NUMBER 3	9307895	9307895	9307895	9307895	
	NUMBER 4	9307894	9307894	9307894	9307894	
	LETTER A	9307893	9307893	9307893	9307893	USE TO LABEL ANODES
9	GROUNDING CELL	NON STOCK	9315642	NON STOCK	NON STOCK	AS SPECIFIED BY CORROSION ENGINEERING
10	ANODE, MAGNESIUM 17LBS	9311183	9311183	9311183	9311183	SATURATE WITH WATER BEFORE BACKFILL. ANODE MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
11	COUPON	9386100	By Corrosion	9386100	By Corrosion	MC MILLER OR EQUAL
12	REFERENCE CELL	9385758	By Corrosion	9385758	By Corrosion	BORIN MFGR INC OR EQUAL

UNCONTROLLED WHEN PRINTED
Effective Date 06/08/2020

5 OF 5

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030026-CS

NOTE:

1. CATHODIC PROTECTION DETAILS ARE NOT COVERED UNDER PE STAMP.

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

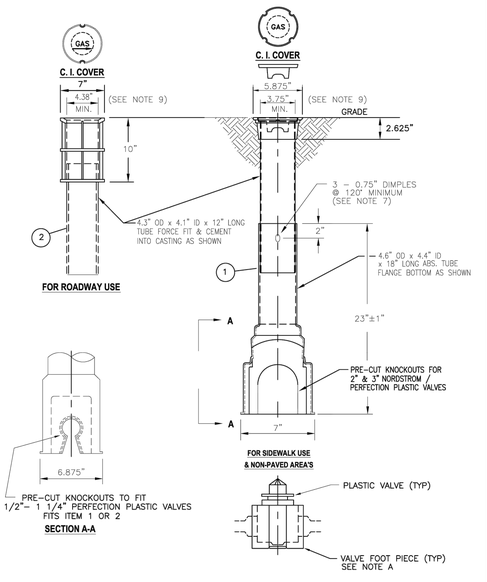
21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

STANDARD DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

PAGE 16 OF 20

DRAWING NO.	SHEET NO.
C-202	16

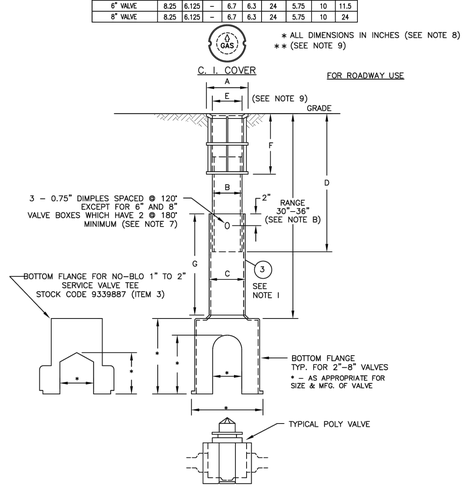


SIZE *	A	B		C		D	E	F	G
		O.D.	I.D.	O.D.	I.D.				
SERVICE VALVE TEE	7	4.3	4.1	4.6	4.4	19	4.375	10	17.5
2"-4" VALVE	7	4.3	4.1	4.6	4.4	19	4.375	10	9
6" VALVE	8.25	6.125	–	6.7	6.3	24	5.75	10	11.5
8" VALVE	8.25	6.125	–	6.7	6.3	24	5.75	10	24

* ALL DIMENSIONS IN INCHES (SEE NOTE 8)
** (SEE NOTE 9)

C. I. COVER

FOR ROADWAY USE



nationalgrid	LI–MA–NYC
REVISIONS: ADDED ITEM 16. REVISED #445 COVERS WITH ARROW TERMINOLOGY. ADDED UNIDIRECTIONAL ARROW ON ITEM 1.	

VALVE BOXES UP TO 8" VALVES AND ALL RISER RINGS

DATE: 07/01/2003	EFFECTIVE DATE: 09/15/2014
DESIGN: A. GIULIANI/MAM	STD. DWG. NO. FITS-6370
DRAWN: J. CASTALUCCI, P. DIMAIO	

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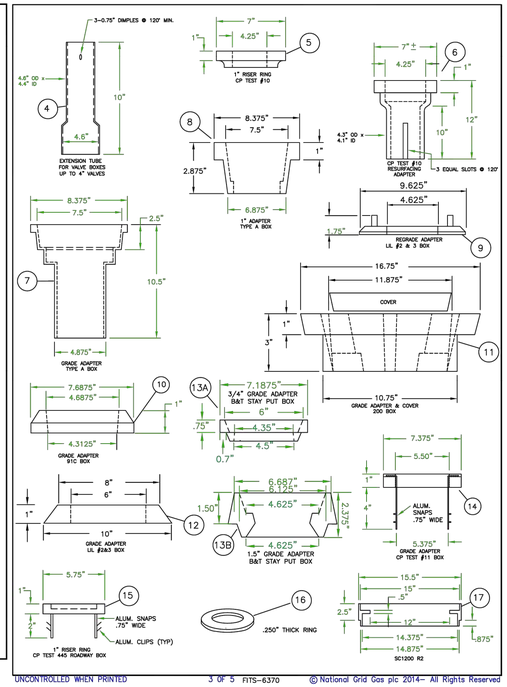

INSTALLATION NOTES:

A. VALVE FOOT PIECE TO BE INSTALLED AROUND THE VALVE THEN INSERTED INTO THE BOTTOM FLANGE OF THE VALVE BOX.

B. THE RANGE OF THE VALVE BOX FROM TOP OF GRADE TO TOP OF VALVE, IS 24" TO 38". FOR DEEPER VALVES USE EXTENSION TUBE STOCK CODE 00308023.

C. THESE BOXES CAN ALSO BE USED WITH THE APPROPRIATE SIZE STEEL VALVE. IF USED WITH A STEEL VALVE THE "VALVE FOOT PIECE" IS NOT TO BE USED; HOWEVER, PRIOR TO BACKFILLING INSTALL THE LOWER PORTION OF THE VALVE KEY ON THE VALVE OPERATING NUT. THEN PLACE THE LOWER SECTION OF THE BOX ON THE VALVE. WHEN THE BOTTOM SECTION IS BACKFILLED TO WITHIN 6" FROM ITS TOP REMOVE THE VALVE KEY & INSTALL THE TOP SECTION OF THE BOX.

D. ITEM 2 SHALL ONLY BE USED IN SIDEWALK AND NON-PAVED, NON TRAFFIC AREA EXCEPT DRIVEWAYS.

E. USE ITEM 1 ON MAIN LINE VALVES INSTALLED IN PAVED AND NON PAVED AREAS.

F. AFTER INSTALLATION OF MAIN LINE VALVE & BOX NOTIFY GSO OF COMPLETION.

MANUFACTURING NOTES:

1. ALL TOPS & BOTTOMS SHALL BE INTERCHANGEABLE.
2. THE TOP OF THE BOX ASSEMBLY SHALL BE FABRICATED SO AS TO FIT INSIDE THE BOTTOM SECTION.
3. MATERIAL SHALL CONFORM TO ASTM SPECIFICATIONS FOR GREY CAST IRON CASTINGS, DESIGNATED A48, CLASS 25.
4. COVER SHALL CREATE A TIGHT FIT WITH TOP OF CASTING TO PREVENT RATTLING. FOR CODES 00308054 & 00308055 COVER SHALL BE OF VENTED DESIGN. FOR OTHER STOCK CODES THE COVER SHALL INCLUDE A DIRECTIONAL ARROW. THIS SHALL BE DESIGNED TO ALLOW THE ARROW TO BE POSITIONED AT 60 INTERVALS.
5. ALL SURFACES SHALL BE COVERED WITH ONE COAT OF FLINTKOTE HYDALT PROTECTIVE COATING, C-13-E OR APPROVED EQUAL.
6. THE PLASTIC USED FOR THE TUBES SHALL BE PROTECTED FROM UV RAYS & AND HAVE THE PROPER INHIBITORS TO PROTECT FROM BRITTLENESS AT ZERO DEGREES.
7. DIMPLES SHALL BE FORMED SO AS TO EXERT ENOUGH PRESSURE ON INNER TUBE TO SUPPORT ENTIRE ASSEMBLY IN EXTENDED POSITION.
8. DIMENSIONAL TOLERANCES: MANUFACTURE SHALL ADHERE TO THE FOLLOWING DIMENSIONAL TOLERANCES ALL PLASTIC TUBING SHALL BE +/- 0.015" TO THOSE SHOWN ON THE DRAWING. ALL CASTINGS SHALL BE MANUFACTURED TO WITHIN +/- 0.0625" TO THE DIMENSIONS SHOWN ON THE DRAWING.
9. DIMENSIONS SHALL BE CONSISTENT THROUGHOUT THE CASTING.
10. TOP SECTION OF VALVE BOX SHALL HAVE THE PLASTIC TUBE FORCED FIT AND CEMENTED INTO THE CASTING. THIS JOINT SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 20 POUNDS.
11. MANUFACTURER SHALL SUBMIT SAMPLES TO THE ENGINEER FOR APPROVAL PRIOR TO BID ACCEPTANCE.
12. STREET BOXES SHALL BE DESIGNED TO HANDLE TO AN H-20 ROADWAY LOADING.
13. TOP FLANGE OF ROADWAY BOX SHALL BE FLAT AND WIDE ENOUGH TO ACCOMMODATE A 3/8" METAL NUMBER STAMP EMBEDDED INTO THE CASTING BY CKD IN THE FIELD.
14. THE VALVE FOOT PIECE SHALL BE DESIGNED TO FIT THE FOLLOWING MANUFACTURER'S VALVES.
    ½"- 1 ¼" - PERFECTION
    2" - NORDSTROM OR PERFECTION UNIVERSAL FOOT PC FOR BOTH MFG.
    4" - 8" NORDSTROM

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FITS-6370

No.	ITEM	N.G. CODE No.
18	PENTAGON KEY FOR ITEMS 8B AND 11B (NOT SHOWN)	9354644
17	2" REGRADE ADAPTER FOR 12" LOCKING BOX SC1200 R2	9384175
16	VALVE BOX ADAPTER RING, 1/4 INCH THICK X 7-5/8 INCH I.D. X 10-1/2 IN O.D. FLAT RING TO RAISE OLD LEGACY OBSOLETE LILCO ROUND CASTINGS	9353359
15	ONE INCH GRADE ADAPTER & COVER FOR CP TEST#445 ROADWAY BOX - NH ONLY	9383913
*	REPLACEMENT COVER FOR LIL #2 BOX - LI ONLY COVER MARKED "GAS" FOR 445 BOX (WITH UNIDIRECTIONAL ARROW) COVER MARKED "GAS" FOR 445 BOX (WITHOUT UNIDIRECTIONAL ARROW) COVER MARKED "GAS" FOR 4" STAY PUT BOX - NYC ONLY COVER MARKED "GAS" FOR #11B BOX COVER MARKED "GAS" FOR #10 BOX RESURFACE REPAIR SLEEVE RING	9339829 9339828 9388350 9339759 9339858 9339762
14	1" REGRADE ADAPTER WITH COVER FOR CP TEST # 11B BOX - SEE NOTE B	9382611
13A 13B	¾" REGRADE ADAPTER FOR B&T STAY PUT SERVICE BOX WITH SLOTS NYC ONLY 1-½" REGRADE ADAPTER FOR B&T STAY PUT SERVICE BOX WITH SLOTS NYC ONLY	9339800 9339725
12 *	1" REGRADE ADAPTER FRAME FOR THE LIL# 2 & 3 VALVE BOX. COVER FOR ABOVE (NOT SHOWN) - LI ONLY	9339859 9339860
11B	COVER, REPLACEMENT, LOCKING, MARKED "GAS" FOR EXISTING LOCK TYPE 200 BOX, WITH PENTHEAD BOLT - LI ONLY (NOT SHOWN)	9384338
11A	COVER, REPLACEMENT, NON-LOCK, MARKED "GAS" FOR EXISTING NON-LOCK TYPE 200 BOX - LI ONLY (NOT SHOWN)	9339798
11	1" REGRADE ADAPTER FRAME & COVER FOR 200 VALVE BOX - LI ONLY	9339826
*	2-1/2" REGRADE ADAPTER FOR 200 VALVE BOX. FITS EXISTING COVER. (NOT SHOWN) - LI ONLY	9339799
10	1 " REGRADE ADAPTER & COVER FOR 91C BOX - LI ONLY	9339761
9	1 ½" REGRADE ADAPTER FOR LIL 2&3 BOX - LI ONLY	9339758
8B	COVER, REPLACEMENT, LOCKING, MARKED "GAS" FOR 7-1/2" EXISTING TYPE "A" LOCK VALVE BOXES, WITH PENTHEAD BOLT - LI ONLY (NOT SHOWN)	9339760
8A	COVER, REPLACEMENT, MARKED "GAS" FOR 7-1/2" EXISTING TYPE "A" NON-LOCK VALVE BOXES AND ALL TYPE "A" ADAPTER RINGS - LI ONLY (NOT SHOWN)	9384430
8	1 " REGRADE ADAPTER FOR TYPE "A" VALVE BOX. FITS EXISTING COVER. - LI ONLY	9339827
7	2 -½" REGRADE ADAPTER FOR TYPE "A" VALVE BOX . 2-1/2 IN MIN TO 8 IN MAX RISE. FITS EXISTING COVER. - LI ONLY	9339763
6	1" REGRADE ADAPTER RING EXTENSION WITH 10" PLASTIC SKIRT TO REPAIR TOPS OF CP TEST #10 BOX	9381407
5	1" REGRADE ADAPTER FOR CP TEST #10 BOX	9339823
4	EXTENSION TUBE – FOR CP TEST #11 BOX EXTENSION TUBE - FOR CP TEST #10 BOX	9382619 9339824
*	EXTENSION TUBE, FOR CP TEST #558 BOX, 18" LONG – (NOT SHOWN) - NE ONLY EXTENSION TUBE, FOR CP TEST #334 BOX, 24" LONG – (NOT SHOWN) - NE ONLY	9383199 9383198
3	ROADWAY BOX ASSEMBLY AND COVER FOR 8" POLYVALVE CP TEST #11B OR APPV'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 6" POLYVALVE CP TEST 11B OR APPV'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 4" POLYVALVE CP TEST #10 OR APPV'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 2" AND 3" POLYVALVES CP TEST #10 OR APPR'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 1"- 2" MUELLER SERVICE VALVE TEE CP TEST #10 OR APPV'D EQUAL	9339893 9339892 9339891 9339890 9339887
2	ROADWAY SERVICE BOX AND COVER FOR ½" TO 1" PLASTIC VALVE NE ONLY CP TEST #10 OR APPV'D EQUAL	9382767
1	SIDEWALK VALVE BOX ASSEMBLY AND UNIDIRECTIONAL ARROW COVER FOR ½" TO 1 ¼" PLASTIC VALVES CP TEST #445 OR APPR'D EQUAL SIDEWALK VALVE BOX ASSEMBLY AND UNIDIRECTIONAL ARROW COVER FOR 2" TO 3" PLASTIC VALVES CP TEST #445 OR APPROVED EQUAL	9339888 9339889

BILL OF MATERIAL

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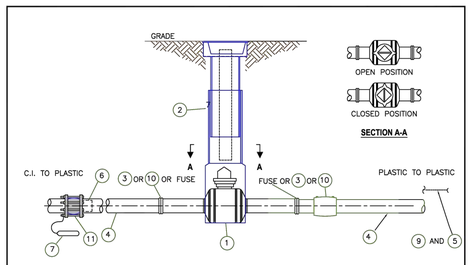
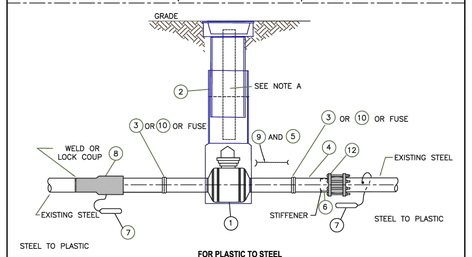
FITS-6370





NOTES:
A. IN ONY LI REGION, INSTALL A LENGTH OF 2" DIAMETER PE OR SMALLER TUBING IN THE VALVE BOX TO IDENTIFY THE VALVE AS PLASTIC.
B. INSTALL TRACER WIRE OR BALL MARKERS AS REQUIRED IN YOUR REGION FOR PE INSTALLATIONS.
C. NOT USED ON THE DNY LI 99 & 124 PSIG PE SYSTEM.
D. REFER TO REGIONAL STANDARDS FOR MATERIAL IDS NOT GIVEN BELOW.

		SAP ID	SAP ID	SAP ID
		UNY AND RI **LP TO 100 PSIG HD** 9311203 12" DR 11 FULL PORT W/ GEAR OPERATOR **RI ONLY** 9307909 12" DR 13.5 FULL PORT W/ GEAR OPER **UNY ONLY** 9311173 8" DR 11 FULL PORT **RI ONLY** 9315189 8" DR 13.5 FULL PORT **UNY ONLY** 9312116 6" DR 11 FULL PORT 9312058 4" DR 11 FULL PORT 9308561 3" DR 11 FULL PORT **RI ONLY** 9312060 2" DR 11 FULL PORT 9311146 2" DR 11 FULL PORT WITH PERMASERT ENDS	**LI ONLY** **99 AND 124 PSIG HD** 9341706 8" RED PORT DR 9 9341705 6" RED PORT DR 9 9341700 4" RED PORT DR 9 9341699 2" FULL PORT DR 9	**LI, NYC AND NE** **LP TO 60 PSIG MEDIUM DENSITY** 9341704 12" FULL PORT DR 13.5 9386594 8" FULL PORT DR 13.5 9323032 6" FULL PORT DR 11.5 9341709 4" FULL PORT DR 11.5 9323299 3" FULL PORT DR 11 9341784 2" FULL PORT DR 11 9341408 8" RED PORT DR 13.5 9341757 6" RED PORT DR 11.5 9341693 4" RED PORT DR 11.5 9341756 3" RED PORT DR 11 **100 PSIG HIGH DENSITY (NE ONLY)** 9323610 4" RED PORT DR 11 9323611 6" RED PORT DR 11 9323612 8" RED PORT DR 11 9312060 2" FULL PORT DR 11 9312058 4" FULL PORT DR 11 9312116 6" FULL PORT DR 11
1	VALVE, PE (PORT CONFIGURATION AS NOTED)			
2	ROADWAY VALVE BOX WITH COVER	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN SEE DWG FITS 6360 (FOR 12" VALVE) 9311208 (FOR 2" THRU 8" VALVE)	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN 9341706 8" RED PORT 9341705 6" RED PORT 9341700 4" RED PORT 9341699 2" FULL PORT	**SAP ID** SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN 9382626 FOR 12" FULL PORT 9382626 FOR 8" FULL PORT 9339893 FOR 6" FULL PORT 9339892 FOR 4" FULL PORT 9339890 FOR 3" FULL PORT 9339890 FOR 2" FULL PORT 9339893 FOR 8" RED PORT 9339892 FOR 6" RED PORT 9339891 FOR 4" RED PORT 9339891 FOR 3" RED PORT
3	COUPLING ELECTROFUSE			
4	PLASTIC PIPE			
5	BURIAL TAPE			
6	INSERT STIFFENER (SEE NOTE C)			
7	ANODE, 17 LB			
8	TRANSITION FITTING STL TO PE			
9	TRACER WIRE OR (BALL MARKER IF USED IN REGION)			
10	COUPLING 2" PERFECTION PERMASERT (SEE NOTE C)			
11	COUPLING, PE TO CI, LOCKING INSULATING, MECHANICAL			
12	COUPLING, PE TO STL, LOCKING, NON-INSULATING MECHANICAL (SEE NOTE C)			
No.	ITEM			

nationalgrid	ALL REGIONS
REVISIONS: UPDATED ITEM ID'S	

2"-12" PE VALVE TYPICAL INSTALLATION

DATE: 07/01/2003	EFFECTIVE DATE: 06/09/2020
DESIGN: AJG / MAM	STD. DWG. NO. VALV-6020
DRAWN: P. DIMAIO	

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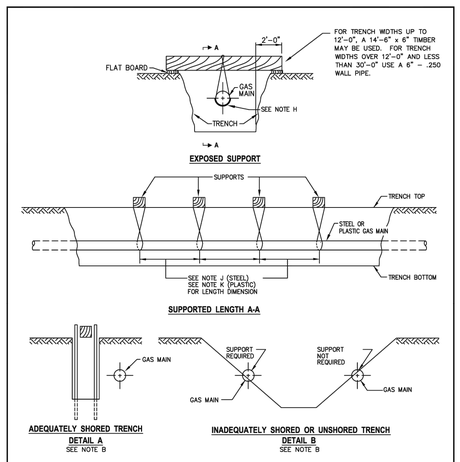

nationalgrid	LI–MA–NYC
REVISIONS UPDATED SAP ID# AND NOTE N	

SUPPORT REQUIREMENTS FOR EXPOSED & UNDERMINED STEEL OR PLASTIC GAS FACILITIES

DATE: 07/01/2003	EFFECTIVE DATE: 03/07/2018
DESIGN: A. GIULIANI	STD. DWG. NO. CNST-6045
DRAWN: P. DIMAIO	

SHT. 1 OF 2

NOTES:

A. THIS CONSTRUCTION STANDARD SHALL BE USED TO SUPPORT PLASTIC OR STEEL GAS FACILITIES WHICH ARE UNDERMINED AND EXPOSED BY CONSTRUCTION ACTIVITY.

B. IF AN EXCAVATION IS MADE AT ANY DISTANCE PARALLEL TO THE GAS FACILITY WITH ADEQUATE OSHA STRUCTURAL SHORING, AS SHOWN IN DETAIL "A", OR IF A STABLE SOIL CONDITION WITH SUFFICIENT COVER ABOVE THE PIPE'S CENTERLINE EXISTS, AS SHOWN IN DETAIL "B", THEN SUPPORTS ARE NOT REQUIRED. UNSTABLE SOIL IS DEFINED AS A SOIL WHICH CAN CAUSE "SOIL RUN OUT" FROM BENEATH THE PIPE (e.g., WASHOUT, SOFT CLAY, etc.) OR CAN SHIFT DUE TO CONSTRUCTION ACTIVITY, VIBRATIONS, etc., AND CAUSE A SOIL SCENARIO TO OCCUR AS SHOWN IN DETAIL "B" TO REQUIRE PIPE SUPPORT.

C. IF AN EXCAVATION CROSSES OR RUNS PARALLEL TO A GAS FACILITY, SUPPORTS MAY NOT BE REQUIRED IF THE EXPOSED SECTION OF PLASTIC PIPES IS 3' OR LESS AND STEEL PIPES 7' OR LESS.

D. ALL EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONE CALL DIG SAFE PROGRAM USING THE APPROPRIATE MARK OUT, TEST HOLES AND EXCAVATION TO AVOID DAMAGE TO PIPE OR PIPE COATINGS:
- NEW YORK STATE CODE RULE 753
- MA CHAPTER 82 - SECTION 40, GENERAL LAWS, REGULATING NOTICE REQUIREMENTS FOR EXCAVATION IN PUBLIC WAYS

E. USE OF THIS CONSTRUCTION STANDARD DOES NOT RELIEVE THE CONSTRUCTION AGENCY OR AUTHORITY OR THEIR RESPECTIVE CONTRACTORS OF RESPONSIBILITY FOR DAMAGES. ALL DAMAGES WILL BE REPAIRED IN ACCORDANCE WITH EXISTING STANDARDS AND THE APPROPRIATE PARTY SHALL BE BILLED FOR ALL EXPENSES.

F. GAS FACILITIES SHOULD NOT BE UNDERMINED WITHOUT ADEQUATE SUPPORT (DETAIL A). ALL SUPPORT LINES SHALL BE TENSIONED SO THAT NO DEFLECTION WILL OCCUR WHEN THE FACILITY IS UNDERMINED. THIS TENSION SHALL BE CHECKED AT THE START AND END OF EACH DAY AND ADJUSTED AS NECESSARY.

G. WHERE A COUPLING, GAS SERVICE, CLAMP, VALVE, DRIP LINE OR OTHER APPURTENANCE EXISTS ON THE EXPOSED SECTION OF MAIN, AN ADDITIONAL SUPPORT SHALL BE INSTALLED AT THE LOCATION.

H. WHEN SUPPORTING AN EXPOSED FACILITY, THE PIPE COATING SHALL BE PROTECTED WITH ROCK SHIELD (ITEM ID 9340226), OR OTHER LIKE MATERIAL CUT TO A MINIMUM WIDTH OF ½ THE SUPPORTED PIPE DIAMETER. SUPPORT LINES SHALL BE A MINIMUM OF ½" POLYPROPYLENE OR BETTER. FRP SHEILDS MAY ALSO BE USED FOR THIS PURPOSE PROVIDED THEY EXTEND A MINIMUM OF ½ WAY UP THE PIPE TO PROTECT FROM SIDE LOADING.

I. SUPPORTS FOR GAS TRANSMISSION FACILITIES SHALL BE REVIEWED WITH GAS ENGINEERING PRIOR TO INSTALLATION.

J. THE MAXIMUM SPACING BETWEEN SUPPORTS FOR STEEL FACILITIES SHALL BE AS FOLLOWS:
7' SPACING FOR ¾" AND 1 ¼" STEEL
10' SPACING FOR 2" STEEL
15' SPACING FOR 3" AND 4" STEEL
20' SPACING FOR 6" AND LARGER STEEL

K. THE MAXIMUM SPACING BETWEEN SUPPORTS FOR PLASTIC FACILITIES SHALL BE AS FOLLOWS :
3 ' SPACING FOR 2" AND SMALLER PLASTIC
6' SPACING FOR 4" AND LARGER PLASTIC

L. VIBRATING MACHINES ARE ALLOWED OVER STEEL OR PLASTIC FACILITIES WITH 24" OR GREATER COVER. HAND HELD MECHANICAL. TAMPER IS ACCEPTABLE OVER ANY FACILITY WITH 12" OR GREATER COVER.

M. WHEN CONSTRUCTION ACTIVITY IS COMPLETED, CLEAN FILL SHALL BE COMPACTED AROUND AND UNDER THE GAS FACILITY BEFORE REMOVING SUPPORTS.

N. SEE REGIONAL DAM01007-NYC-LI-UNY OR DAM-MA-RI PROCEDURES FOR **REPLACEMENT** REQUIREMENTS OF CAST IRON PIPE.

No.	ITEM	CODE No.

BILL OF MATERIAL

SHT. 2 OF 2 CNST-6045

TEMPORARY SUPPORT SPACING GUIDELINES FOR CAST IRON MAINS

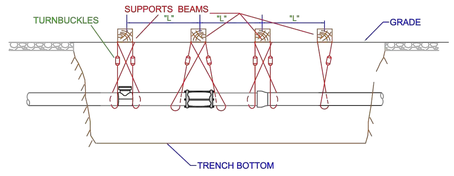

TABLE 1
SUGGESTED MAXIMUM PIPE SUPPORT SPACING "L"
SUGGESTED MAXIMUM SPAN

PIPE SIZE (INCHES)	CAST IRON (FEET)
¾	-
2	-
3	4
4	4
6	4
8	4
12	6
16	6
20	6
24	6

NOTES:

1. WHERE A COMPRESSION COUPLING, GAS SERVICE, REPAIR CLAMP, VALVE, DRIP LINE OR ANY OTHER APPURTENANCE IS FOUND INSTALLED ON THE GAS MAIN, ADDITIONAL SUPPORT SHALL BE INSTALLED TO REINFORCE THE PIPING A THIS LOCATION.
2. CONTACT ENGINERING FOR ALTERNATE OR ADDITIONAL SUPPORT REQUIREMENTS.

nationalgrid	ALL REGIONS
Key Changes:	

TEMPORARY SUPPORT SPACING GUIDELINES FOR CAST IRON MAINS

DATE: 2/15/2018	EFFECTIVE DATE: 2/15/2018
DESIGN: ED MARIAN	STD. DWG. NO. CNST6046
DRAWN: PAUL QUIGLIOTTA	

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IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

STANDARD DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

PAGE 17 OF 20

DRAWING NO.	SHEET NO.
C-203	17

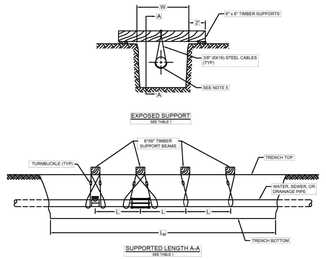


TABLE 1: SUPPORTS FOR STEEL PIPE

PIPE SIZE (INCHES)	MAX SUPPORT SPACING "L" (FT)	MAX TRENCH WIDTH "W" (FT)
1	4	8
2	5	8
3	6	8
4	7	8
6	8	8
8	10	8
12	12	4
16	12	4
20	8	4
24	6	4

NOTES:
1. IF THE LENGTH OF THE EXPOSED UTILITY (L_{eu}) IS SHORTER THAN THE REQUIRED SUPPORT SPACING (L_t) FOR THE CORRESPONDING PIPE SIZE, THEN A SUPPORT WILL NOT BE REQUIRED.
2. WHERE A COMPRESSION COUPLING, UTILITY SERVICE, REPAIR CLAMP, VALVE, OR ANY OTHER APPURTENANCE IS FOUND INSTALLED ON THE MAIN, ADDITIONAL SUPPORT SHALL BE INSTALLED TO REINFORCE THE PIPING AT THIS LOCATION, REGARDLESS OF EXPOSED/UNSUPPORTED PIPE LENGTH.
3. CONTACT ENGINEERING FOR ALTERNATE OR ADDITIONAL SUPPORT REQUIREMENTS, AND IF TRENCH WIDTH EXCEEDS 8' WIDE.
4. ONLY ONE UTILITY ALLOWED PER SUPPORT BEAM.
5. WHEN SUPPORTING AN EXPOSED FACILITY, THE PIPE COATING SHALL BE PROTECTED WITH ROCK SHIELD OR OTHER LIKE MATERIAL CUT TO A MINIMUM WIDTH OF $\frac{1}{2}$ THE SUPPORTED PIPE DIAMETER. FRP SHIELDS MAY ALSO BE USED FOR THIS PURPOSE PROVIDED THEY EXTEND A MINIMUM OF $\frac{1}{2}$ WAY UP THE PIPE TO PROTECT FROM SIDE LOADING.

TEMPORARY SUPPORT SPACING GUIDELINES FOR FOREIGN STEEL MAINS
NTS

CONCORD STANDARD DETAIL

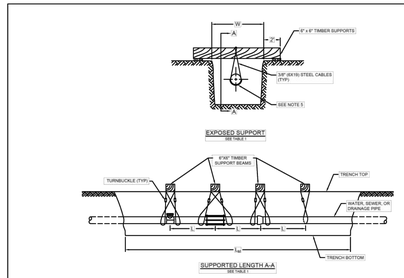


TABLE 1: SUPPORTS FOR DUCTILE IRON PIPE

PIPE SIZE (INCHES)	MAX SUPPORT SPACING "L" (FT)	MAX TRENCH WIDTH "W" (FT)
4	8	8
6	9	8
8	10	8
12	11	6
16	11	4
20	7	4
24	5	4

NOTES:
1. IF THE LENGTH OF THE EXPOSED UTILITY (L_{eu}) IS SHORTER THAN THE REQUIRED SUPPORT SPACING (L_t) FOR THE CORRESPONDING PIPE SIZE, THEN A SUPPORT WILL NOT BE REQUIRED.
2. WHERE A COMPRESSION COUPLING, UTILITY SERVICE, REPAIR CLAMP, VALVE, BELL JOINT, OR ANY OTHER APPURTENANCE IS FOUND INSTALLED ON THE MAIN, ADDITIONAL SUPPORT SHALL BE INSTALLED TO REINFORCE THE PIPING AT THIS LOCATION, REGARDLESS OF EXPOSED/UNSUPPORTED PIPE LENGTH.
3. CONTACT ENGINEERING FOR ALTERNATE OR ADDITIONAL SUPPORT REQUIREMENTS, AND IF TRENCH WIDTH EXCEEDS 8' WIDE.
4. ONLY ONE UTILITY ALLOWED PER SUPPORT BEAM.
5. WHEN SUPPORTING AN EXPOSED FACILITY, THE PIPE COATING SHALL BE PROTECTED WITH ROCK SHIELD OR OTHER LIKE MATERIAL CUT TO A MINIMUM WIDTH OF $\frac{1}{2}$ THE SUPPORTED PIPE DIAMETER. FRP SHIELDS MAY ALSO BE USED FOR THIS PURPOSE PROVIDED THEY EXTEND A MINIMUM OF $\frac{1}{2}$ WAY UP THE PIPE TO PROTECT FROM SIDE LOADING.

TEMPORARY SUPPORT SPACING GUIDELINES FOR FOREIGN DUCTILE IRON MAINS
NTS

CONCORD STANDARD DETAIL

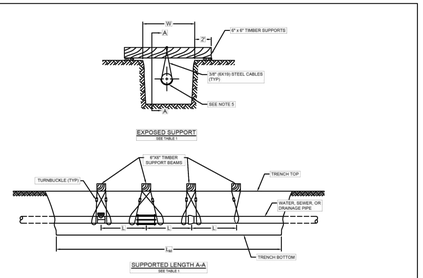


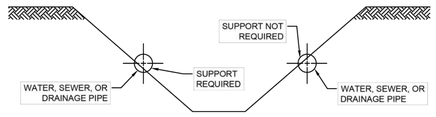
TABLE 1: SUPPORTS FOR CAST IRON PIPE

PIPE SIZE (INCHES)	MAX SUPPORT SPACING "L" (FT)	MAX TRENCH WIDTH "W" (FT)
3	4	8
4	4	8
6	4	8
8	4	8
12	6	4
16	6	4
20	4	4
24	3	4

NOTES:
1. IF THE LENGTH OF THE EXPOSED UTILITY (L_{eu}) IS SHORTER THAN THE REQUIRED SUPPORT SPACING (L_t) FOR THE CORRESPONDING PIPE SIZE, THEN A SUPPORT WILL NOT BE REQUIRED.
2. WHERE A COMPRESSION COUPLING, UTILITY SERVICE, REPAIR CLAMP, VALVE, BELL JOINT, OR ANY OTHER APPURTENANCE IS FOUND INSTALLED ON THE MAIN, ADDITIONAL SUPPORT SHALL BE INSTALLED TO REINFORCE THE PIPING AT THIS LOCATION, REGARDLESS OF EXPOSED/UNSUPPORTED PIPE LENGTH.
3. CONTACT ENGINEERING FOR ALTERNATE OR ADDITIONAL SUPPORT REQUIREMENTS, AND IF TRENCH WIDTH EXCEEDS 8' WIDE.
4. ONLY ONE UTILITY ALLOWED PER SUPPORT BEAM.
5. WHEN SUPPORTING AN EXPOSED FACILITY, THE PIPE COATING SHALL BE PROTECTED WITH ROCK SHIELD OR OTHER LIKE MATERIAL CUT TO A MINIMUM WIDTH OF $\frac{1}{2}$ THE SUPPORTED PIPE DIAMETER. FRP SHIELDS MAY ALSO BE USED FOR THIS PURPOSE PROVIDED THEY EXTEND A MINIMUM OF $\frac{1}{2}$ WAY UP THE PIPE TO PROTECT FROM SIDE LOADING.

TEMPORARY SUPPORT SPACING GUIDELINES FOR FOREIGN CAST IRON MAINS
NTS

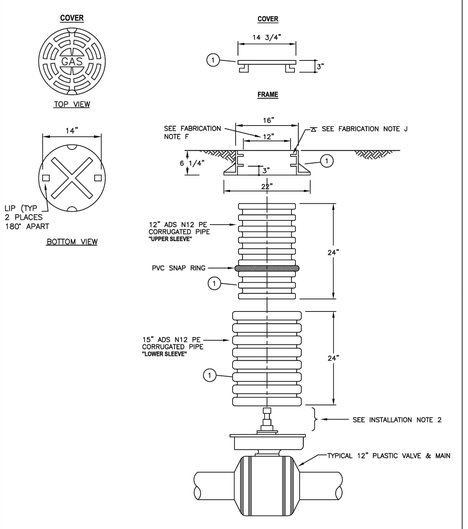
CONCORD STANDARD DETAIL



DETAIL A

INADEQUATELY SHORED OR UNSHORED TRENCH FOR FOREIGN STEEL, CAST IRON, & DUCTILE IRON MAINS
NTS

CONCORD STANDARD DETAIL



FABRICATION NOTES

A. MATERIAL FOR AND COVER SHALL CONFORM TO ASTM SPECIFICATIONS FOR GREY CAST IRON CASTINGS. DESIGNATED A-48, CLASS 25.

B. ALL CASTING SURFACES SHALL BE COVERED WITH ONE COAT OF FLINTKOTE HYDALT PROTECTIVE COATING, C-13-E OR APPROVED EQUAL.

C. DIMENSION SHOWN ARE OF A GENERAL NATURE, MANUFACTURER SHALL SUPPLY DETAIL SHOP SUPPLY DETAIL DRAWINGS WITH BID.

D. CASTING & ENTIRE SYSTEM SHALL BE DESIGNED TO WITHSTAND H-20 ROADWAY LOADING.

E. PIPE USED FOR SLEEVES SHALL BE HIGH DENSITY POLYETHYLENE ADS N-12 CORRUGATED PIPE.

F. THE INSIDE DIMENSION OF THE FRAME SHALL BE A MINIMUM OF A CLEAR 12".

G. THE COVER SHALL BE FABRICATED TO ENSURE EASE OF REMOVAL IN TO & OUT OF THE CASTING AND SHALL CONTAIN LIPS AT 180 DEGREES APART TO ACT AS A LOCKING DEVICE.

H. THE FRAME SHALL HAVE A RAISED MARK THAT IS CAST INTO THE FRAME TO INDICATE ALIGNMENT OF THE LIPS ON THE COVER WITH THE SLOTS ON THE FRAME. THE WORD "GAS" ON THE COVER SHALL ALIGN WITH THIS MARK ON THE FRAME.

I. PACKAGING- THE COVER, FRAME & BOTH SLEEVES SHALL BE SHIPPED AS A UNIT TOTALLY SECURED TO ENSURE NO SEPARATION OF ANY OF THE PARTS PRIOR TO INSTALLATION.

J. THIS IS THE RESTING FACE AND SHOULD BE SMOOTH.

INSTALLATION INSTRUCTIONS

1. MEASURE AND CUT THE BOTTOM SLEEVES TO THE APPROPRIATE LENGTH REQUIRED, BASED ON THE DEPTH OF THE MAIN.
2. INSTALL THE LOWER SECTION SO AS TO CENTER IT OVER THE VALVE OPERATOR, RESTING IT ON THE GEAR OPERATOR. IF INSTALLED OVER A DRIP STANDPIPE OR GAGE LINE, POSITION IT TO ALLOW FOR EASY ACCESS TO THE BLOW DOWN VALVE. BACKFILL & PROPERLY COMPACT.
3. CUT THE UPPER SLEEVE TO THE APPROPRIATE LENGTH ALLOWING FOR A MINIMUM OF 4" TO A MAXIMUM OF 6" TO PROTRUDE INTO THE LOWER SLEEVE.
4. INSTALL THE UPPER SLEEVE INTO THE BOTTOM SLEEVE & SECURE IT INTO POSITION USING THE PVC SNAP RING SUPPLIED ON THE UPPER SLEEVE. THIS IS ACCOMPLISHED BY MOVING THE RING TO A POINT WHERE IT RESETS ON THE TOP OF THE LOWER SLEEVE.
5. SET THE CASTING ONTO THE UPPER SLEEVE ENSURING IT IS LEVEL WITH THE EXISTING GRADE. COMPLETE THE BACKFILL AND COMPACTION TO THE APPROPRIATE DEPTH DEPENDING ON THE TYPE OF PAVING TO BE PERFORMED.
6. COVER INSTALLATION: ALIGN THE LIPS ON THE UNDERSIDE OF THE COVER WITH THE SLOTS IN THE FRAME AND DROP THE COVER IN PLACE. TURN AND ALIGN THE RECESSED SLOTS IN THE TOP OF THE COVER AT 90 DEGREES. THIS IS THE LOCKING FEATURE ON THE COVER.
7. TO REMOVE THE COVER ALIGN THE WORD "GAS" WITH THE RAISED KNOB ON THE FRAME. THEN USE AN APPROPRIATE LIFTING BAR TO REMOVE THE COVER.

NOTE: THIS UNIT IS PURCHASED AS A COMPLETE ASSEMBLY WITH ALL PARTS AS SHOWN ON THE ATTACHED DRAWING.

NO.	ITEM	ORACLE ITEM ID LI / NYC / MASS/ NH	PEOPLESOFT ITEM ID RHODE ISLAND UPSTATE NEW YORK
1	12" VALVE BOX, COMPLETE, WITH LOCKING COVER	9382626	9307586

nationalgrid — ALL REGIONS

12" VALVE BOX ASSEMBLY

DATE:	07/01/2003	EFFECTIVE DATE:	09/15/2013
DESIGN:	A. GIULIANI	STD. DWG. NO.	FITS-6360
DRAWN:	P. DIMAIO		

REVISIONS: REVISED USING SAP ITEM ID #'S

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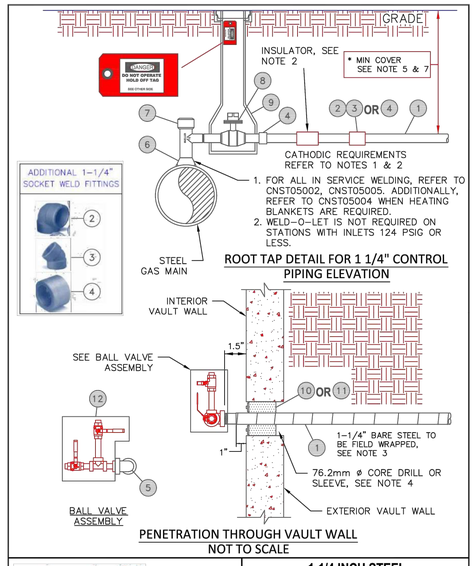
FITS-6360



nationalgrid — MA–RI

1-1/4 INCH STEEL REGULATOR STATION CONTROL LINES

DATE:	02/05/2018	EFFECTIVE DATE:	04/15/2018
DESIGN:	G.E.W./ J.L.C.	STD. DWG. NO.	REGL-6056-MA-RI
DRAWN:	L.Z.		

REVISIONS:

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NOTES:

1. PRIOR TO INSTALLATION, CONTACT GAS CORROSION FOR SITE SPECIFIC CATHODIC REQUIREMENTS (I.E. ANODES, TEST STATIONS, INSULATING JOINTS, RECTIFIER) ASSOCIATED WITH THE INSTALLATION OF THE NEW STEEL CONTROL LINE.

2. A WELD END INSULATOR IS REQUIRED WHEN TAPPING THE CONTROL LINE OFF OF AN EXISTING STEEL MAIN. UTILIZE COUPLINGS (BOM ITEM 4) AS NECESSARY TO FACILITATE WELDING.

3. ALL BARE METAL SURFACES, FITTINGS AND VALVES SHALL BE CATHODICALLY PRIMED AND COATED IN ACCORDANCE WITH CONSTRUCTION STANDARD, GS0031-CS. CATHODIC PRROTECTION COATING SHALL BE PRESENT ON THE PIPE SECTION PASSING THROUGH THE WALL SLEEVE INTO THE VAULT.

4. IN ORDER TO PROVIDE PROPER SEALING OF THE CONTROL LINE THROUGH THE VAULT WAL, A 76.2 mm DIAMETER HOLE (CASTED OR CORE DRILLED) MUST BE PROVIDED. USE ROXTEC SEAL OR LINK SEAL.

FOR STATIONS INLET PRESSURES 124 PSIG OR LESS:

5. A MINIMUM OF 24 INCHES OF COVER MUST BE MAINTAINED ALONG THE ENTIRE RUN OF THE CONTROL LINE PIPING. OR USE STEEL PLATE AS REQUIRED (REF. CNST-6030).

6. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CNST-06008 PRIOR TO THE TAPPING OF THE SERVICE TEE.

FOR STATIONS INLET PRESSURES GREATER THAN 125 PSIG:

7. A MINIMUM OF 36 INCHES OF COVER MUST BE MAINTAINED ALONG THE ENTIRE RUN OF THE CONTROL LINE PIPING. OR USE STEEL PLATE AS REQUIRED (REF. CNST-6030).

8. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CNST04004 PRIOR TO THE TAPPING OF THE SERVICE TEE.

9. FOR TRANSMISSION PROJECTS, CMTR'S REQUIRED ON ALL PIPE AND FITTINGS.

MATERIAL LIST

ITEM	DESCRIPTION	ITEM I.D	QTY	MATERIAL NOTES
1	STEEL PIPE, 1-1/4" SCH. 80	NON STOCK	A/R	BARE - TO BE FIELD WRAPPED
2	ELBOW, 1-1/4" 90 DEGREE SOCKET WELD 3000# A-350	NON STOCK	A/R	
3	ELBOW, 1-1/4" 45 DEGREE SOCKET WELD 3000# A-350	NON STOCK	A/R	
4	COUPLING, 1-1/4" SOCKET WELD 3000# A-350	NON STOCK	A/R	
5	ELBOW, 1-1/4" STAINLESS STEEL, FNPT X FNPT, FORGED, 90°, 3000# CLASS	NON STOCK	1	
6	WELD-O-LET 4" - 36" X 1-1/4" A-350, 3000#	NON STOCK	1	CMTR'S REQUIRED
7	MUELLER NO-BLO TEE, WELD X WELD	9323997	1	MODEL H-17650
8	VALVE, KEROTEST, 1-1/4" WE X WE, WELDBALL WITH 2" OPERATING NUT, SHOP PAINTED	NON STOCK	1	CARBON STEEL, REDUCED PORT, ANSI 150-600
9	VALVE BOX FOR WELD BALL VALVE	9339887	1	
10	ROXTEC TYPE RS SEALS	NON STOCK	1	ROXTEC RS-75
11	LINK SEAL LS-275-S316 (7 LINKS PER SEAL)	NON STOCK	1	
12	SWAGELOK STAINLESS STEEL ASSEMBLY KIT CONSISTING OF: - 2 QTY - 1/2" BALL VALVE, MODEL 266-FTW-050 - 1 QTY - 1-1/4" TO 1/2" HEX BUSHING - 2 QTY - 1/2" NIPPLES, 2" LONG, SCH 80 - 1 QTY - 1/2" NIPPLES, 4" LONG, SCH 80 - 1 QTY - 1/2" FPNT TEE, 3000# CLASS - 2 QTY - PLUGS, BRASS, SQUARE HEAD, MNPT	NON STOCK	1	STAINLESS STEEL 304 / 316

BILL OF MATERIAL

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REGL-6056-MA-RI

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IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

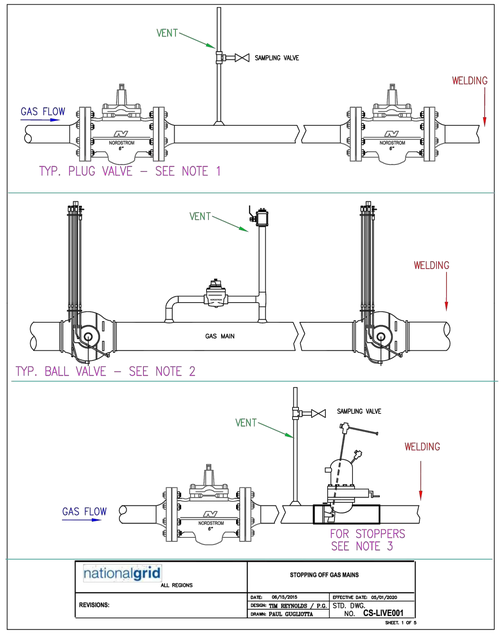
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

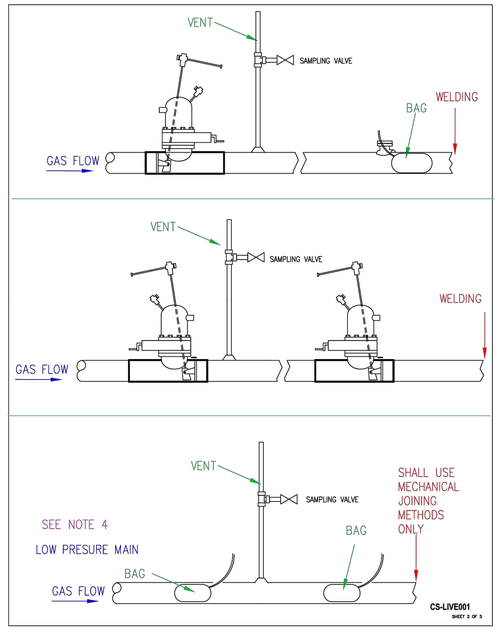
21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

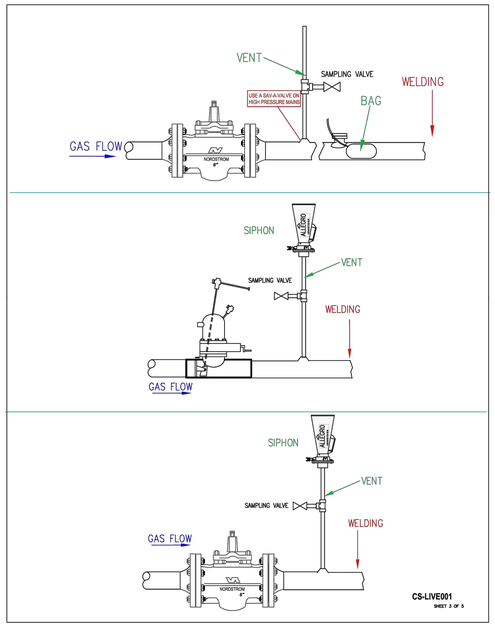
STANDARD DETAILS

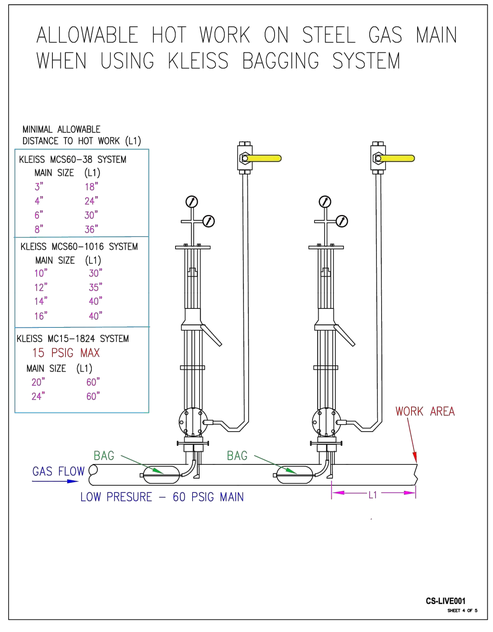
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXX	1509788

DRAWING NO.	SHEET NO.
C-204	18



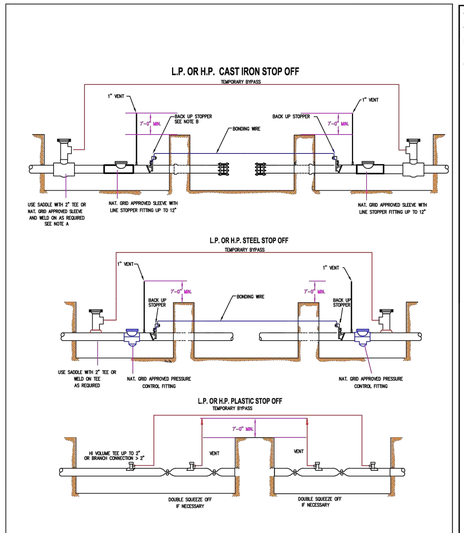






NOTES:

1. PLUG VALVES SHOULD BE GREASED PRIOR TO SHUTTING OFF TO INSURE TIGHT SHUTOFF.
2. USE THE BALL VALVE'S BLOCK AND BLEED AND / OR PURGE ASSEMBLY IF AVAILABLE TO VENT GAS BETWEEN THE TWO CLOSED VALVES.
3. REFER TO MANUFACTURER'S LITERATURE FOR PRESSURE LIMITS OF STOPPERS AND DRILLING EQUIPMENT.
4. WELDING SHALL NOT BE PERFORMED AGAINST A BAG WHERE THE BAG IS USED AS THE PRIMARY MEANS OF STOPPING THE GAS FLOW. SEE STOP-OFF OPERATIONS ON LOW PRESSURE MAINS [CNST-03002].

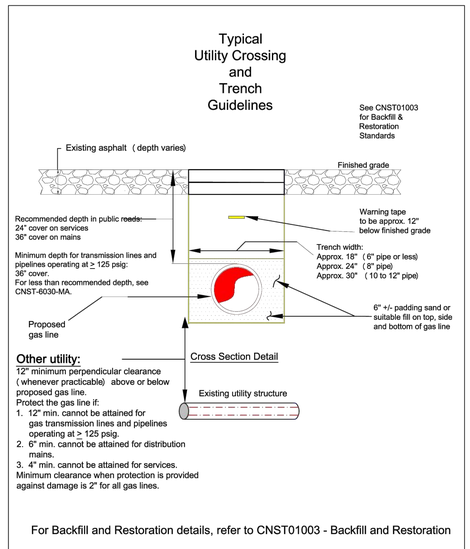


NOTES:

A. FOR BYPASSES ON THE LP SYSTEM ONLY SCREW TEES AND BAGHOLES MAY BE TAPPED DIRECTLY INTO THE MAIN.

B. BACK UP STOPPERS WILL BE REQUIRED IF INSUFFICENT STOP OFF CAN BE ACHIEVED OR IF WELDING BETWEEN THE STOPPERS WILL BE REQUIRED.

C. STOP OFF CAN BE PERFORMED USING MUELLER, T.D. WILLIAMSON, KLIESS, BAGS, OR OTHER APPROVED STOP OFF SYSTEMS.



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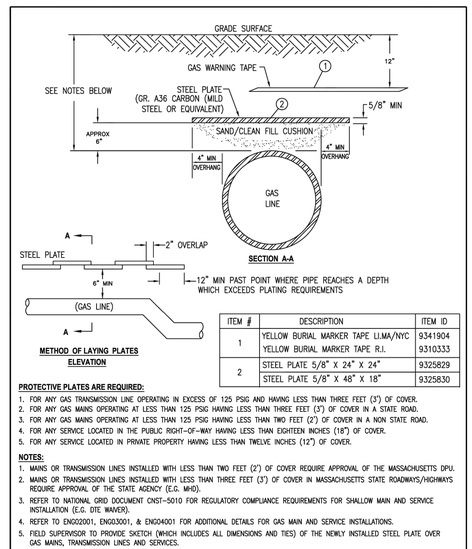


153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE:(781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

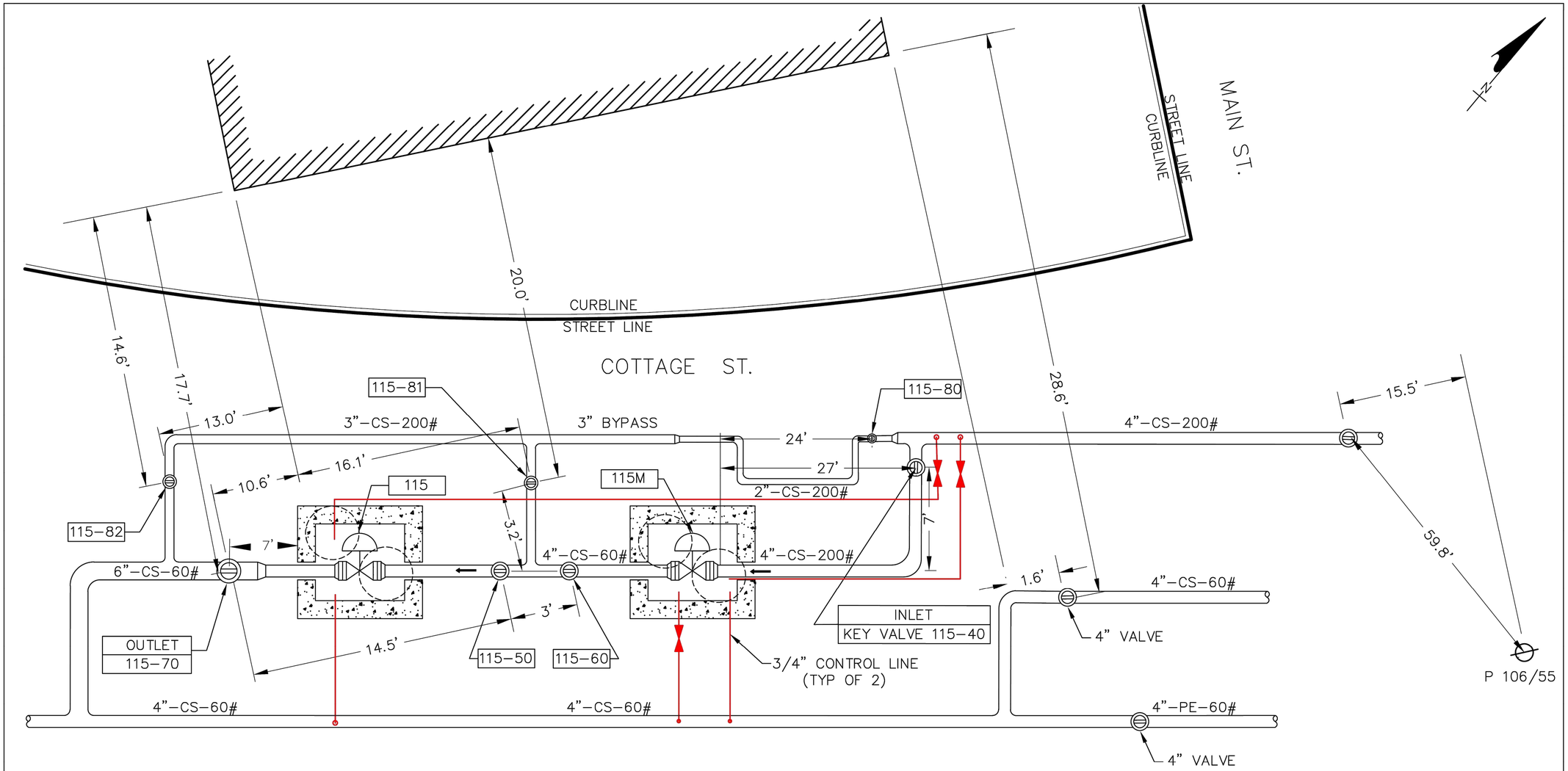
PE STAMP: COMMONWEALTH OF MASSACHUSETTS MARK E. PETROSKI 7/22/2024 CIVIL NO. 54037 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
3	PLAN SET REVISION - MINOR	08/22/2024	TSN	DMJ	MEP
2	PLAN SET REVISION - PROFILES AND NOTES	08/16/2024	TSN	SDS	MEP
1	PLAN SET REVISION	07/22/2024	TSN	SDS	MEP
0	ISSUED FOR CONSTRUCTION	06/06/2024	TSN	WMK	MEP

21 – 92 OLD BRIDGE RD, MAIN ST & COTTAGE ST
GAS MAIN REPLACEMENT
OLD BRIDGE RD, MAIN ST, COTTAGE ST, CREST ST & BRIDGECOURT LN
CONCORD, MA

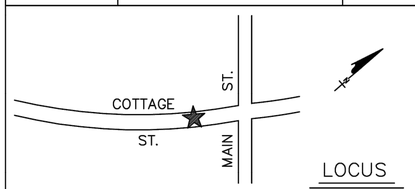
STANDARD DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788



STATION #113 REGULATOR INFORMATION			
ID	**TYPE**	**MAKE & MODEL**	**SET PRESSURE**
113	PRIMARY CONTROL	4" GROVE 900-TE	48-60 PSIG
113M	PRIMARY MONITOR	4" FISHER 1098EGR	55-60 PSIG

INSTALLATION DATE: 1961



REGULATOR STATION FLOW DIAGRAM

COTTAGE ST. @ MAIN ST. CONCORD MA.

INLET MAOP: 200 PSIG, OUTLET MAOP: 60 PSIG

NOT TO SCALE

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

NO	DESCRIPTION	DATE	DFT	APP
10	ADDRESS UPDATED	04/19/2023	MAS	TRB
9	UPDATE TAG INFORMATION	01/15/2018	V.P.	A.D.

REVISIONS

DWG. NO.

FD-115

ASSET ID: 115

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/22/2024
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CONCORD, MA

REGULATOR STATION FLOW DIAGRAM

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	T. NOSAR	06/06/2024	XXXXXXXX	1509788

TOWN OF CONCORD
SELECT BOARD
PUBLIC HEARING NOTICE

Notice is hereby given that a Public Hearing will be held at the Town House in the Select Board Meeting Room, 22 Monument Square, Concord, MA on Tuesday, May 27, 2025 at 6:00 PM, upon the petition of National Grid of Massachusetts for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the Town of Concord and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

As part of the BSMNRPL program, National Grid recommends the relay of:

Relay of approximately 400 feet of 4- inch, Coated Steel approximately 25 feet of 2- inch, Coated Steel (1960), and approximately 10 feet of 4- inch Plastic (2020, 2022) with approximately 435 feet of 8- inch, Plastic in Main St from the existing 4-inch Coated Steel (1930) at #1151 Main St to the existing 4- inch, Coated Steel (1930) at #1112 Main St,

Relay of approximately 50 feet of 4 -inch, Coated Steel (1930) and approximately 10 feet of 4- inch, Plastic (2019) with approximately 30 feet of 8- inch, Plastic in Cottage St from Main St, then approximately 30 feet of 12- inch, Plastic to the existing 4- inch, Coated Steel (1930) at #7 Cottage St (Note: regulator station in scope),

Relay of approximately 35 feet of 4- inch, Coated Steel (1962) with approximately 35 feet of 8- inch, Plastic in Cottage St from the existing 8- inch, Coated Steel (1948) in Main St to #7 Cottage St (tie into the 12-inch, Plastic being installed to replace the 4- inch, Coated Steel (1930),

Relay of approximately 80 feet of 2- inch, Coated Steel (1930) with approximately 80 feet of 2- inch, Plastic in Crest St from Main St to the existing 2- inch, Coated Steel (1930) at #10 Crest St,
abandonment of approximately 840 feet of 2- inch, Coated Steel (1930) in Old Bridge Rd from Crest St to #92 Old Bridge Rd. Transfer all services to the existing parallel 8- inch, Coated Steel (1948),

Installation of approximately 10 feet of 2- inch, Plastic at #92 Old Bridge Rd to tie the existing 2- inch, Coated Steel (1930) into the existing parallel 8- inch, Coated Steel (1948), and
relay of approximately 15 feet of 2- inch, Plastic (1999) with approximately 25 feet of 2- inch, Plastic at the intersection of Old Bridge Rd and Bridgecourt Ln.

The petition was filed with the Select Board on March 21, 2025. **Please review the Select Board meeting agenda at www.concordma.gov to confirm the exact timing of the Hearing.** Questions on this matter should be directed to **Mary Mulroney, Permit Representative for National Grid**, at Mary.Mulroney@nationalgrid.com.

By Order of the Select Board

Mark Howell, Clerk

2025 Warrant Articles

Legend
- Blue Highlight are proposed articles for the Consent Calendar
- Green Highlight are proposed "high interest" articles for pre-scheduling
- Pink Highlight are proposed articles for the Select Board to make statements on

	Article Name	Article Sponsor	Presentation Time	Recommendation	Board Member Name - Statements
1	Choose Town Officers	Select Board		N/A	
2	Hear Reports	Select Board	6 minutes - TMSC 5 minutes - Eric Dahlberg	N/A	
3	Meeting Procedure	Finance Committee	3 minutes - Eric Dahlberg	N/A	
4	Ratify Personnel Board Actions	Personnel Board	4 minutes - Bill Mrachek	Affirmative Action 5-0-0	
5	Ratify Personnel Board Classification & Compensation Plan	Personnel Board	4 minutes - Bill Mrachek	Affirmative Action 5-0-0	
6	FY25 Budget Line-Item Adjustments	Chief Financial Officer	No motion	No Motion Anticipated	
7	FY26 Budget	Town Manager	11 minutes - Kerry Lafleur	Affirmative Action 4-0-0	
8	Debt Exclusion for Road Maintenance	Public Works Commission	9 minutes - Sven Weber	Affirmative Action 4-0-0	Terri Ackerman FinCom TAC
9	FY26 Capital Improvement and Debt Plan	Town Manager	6 minutes - Kerry Lafleur	Affirmative Action 4-0-0	
10	Concord Public Schools Operating Budget	Concord School Committee	7 minutes - Dr. Hunter	Affirmative Action 4-0-0	FinCom
11	Concord Public Schools Capital Budget	Concord School Committee	5 minutes - Dr. Hunter	Affirmative Action 4-0-0	
12	Concord-Carlisle Regional School District Budget	Concord-Carlisle Regional School Committee	5 minutes - Dr. Hunter	Affirmative Action 4-0-0	FinCom
13	Amenities Building	Town Manager *or* Chief Financial Officer	7 minutes - Dr. Hunter or Bob Conry	Report at Town Meeting	Ask for time at the podium, member speaking TBD. Note: Wendy Rovelli SB Liaison
14	Non-Resident Tuition Revolving Fund	Concord School Committee	3 minutes - Dr. Hunter	Affirmative Action 4-0-0	
15	Facilities Rental Revolving Fund	Concord School Committee	3 minutes - Dr. Hunter	Affirmative Action 4-0-0	
16	Authority to Contract for up to Five Years for Selected Items	Concord School Committee	3 minutes - Dr. Hunter	Affirmative Action 4-0-0	
17	Minuteman Regional Technical School District Budget	Minuteman Regional School Committee Representative	6 minutes - Nikki Andrae	Affirmative Action 4-0-0	
18	Creation of Capital and Debt Stabilization Funds	Chief Financial Officer	5 minutes - Anthony Ansaldi	Report at Town Meerting	FinCom Select Board
19	Appropriation to General Stabilization Fund	Chief Financial Officer	3 minutes - Anthony Ansaldi	Report at Town Meeting	FinCom
20	OPEB Trust Fund Appropriation	Chief Financial Officer	2 minutes - Kerry Lafleur	Affirmative Action 4-0-0	
21	OPEB Trust Fund Expense	Chief Financial Officer	2 minutes - Kerry Lafleur	Affirmative Action 4-0-0	
22	Retirement Board Stipends	Retirement Board	5 minutes - Anthony Ansaldi	Affirmative Action 4-0-0	
23	Acceptance of the HERO Act	Board of Assessors	5 minutes - Meredith Stone or BOA Chair	Affirmative Action 4-0-0	
24	Transfer from Middle School Stabilization Fund	Chief Financial Officer	3 minutes - Anthony Ansaldi	Affirmative Action 4-0-0	
25	Transfer of Peabody School and Appropriate Funds	Town Manager	5 minutes - Kerry Lafleur	Affirmative Action 4-0-0	Mark Howell
26	General Bylaw Amendment: Leasing of Land by Select Board and Town Manager	Select Board	3 minutes - Megan Zammuto	Affirmative Action 5-0-0	
27	Remote Participation at Annual and Special Town Meetings	Select Board	5 minutes - Eric Moore	Affirmative Action 5-0-0	
28	Citizen Petition: Ranked Choice Voting	Stephan Bader	6 minutes - Stephan Bader	Affirmative Action 5-0-0	
29	Feasibility of Acquiring 2229 Main Street (NMI Starmet Site)	Select Board	No motion	No Motion Anticipated	
30	Authorize Grant of Easement to Verizon - 835-923 Old Marlboro Road (Concord Middle School)	Town Manager's Office	3 minutes - Kerry Lafleur	Affirmative Action 5-0-0	
31	Select Board to Accept Easements	Public Works Commission	3 minutes - Alan Cathcart	Affirmative Action 5-0-0	
32	Betterments for Temporary Improvements to a Private Way - Darton and Dover Streets	Public Works Commission	No motion	Report at Town Meeting	
33	MCI Concord - Planning	Select Board	5 minutes - Mark Howell	Affirmative Action 5-0-0	
34	Stormwater Enterprise Fund Expenditures	Public Works Commission	9 minutes - Sven Weber	Affirmative Action 5-0-0	Cameron McKennitt
35	Citizen Petition: Protect Orchard House from Stormwater Runoff	John Althouse	No motion? / 5 minutes - Jan Turnquist	Report at Town Meeting 5-0-0	
36	Citizen Petition: Ban Second-Generation Anticoagulant Rodenticides (SGARs)	Meaghan Sinclair and Gwen Shipley	6 minutes - Gwen Shipley & Meaghan Sinclair	Affirmative Action 3-1-1	
37	Zoning Bylaw Amendment: Joint Parking Bylaw	Planning Board	6 minutes - Mark Giddings	Affirmative Action - 4-0-0	
38	Zoning Bylaw Amendment: General Housekeeping - Multiple Sections	Planning Board	5 minutes - Sue Felshin	Affirmative Action - 4-0-0	
39	Zoning Bylaw Amendment: ADU Bylaw	Planning Board	3 minutes - Andrew Boardman	Affirmative Action - 4-0-0	
40	Zoning Bylaw Amendment: Floodplain Conservancy District Bylaw	Planning Board	3 minutes - Rob Almeida	Affirmative Action - 4-0-0	
41	Citizen Petition: Zoning Bylaw Amendment: Personal Wireless Communications Facility	Henry Dane	5 minutes - Henry Dane	Affirmative Action - 4-0-0	Cameron McKennitt
42	General Bylaw Amendment: Sign Bylaw	Planning Board	2 minutes - Sue Felshin	Affirmative Action - 4-0-0	
43	Zoning Bylaw Amendment: Accessory Retail in Industrial	Economic Vitality Committee	2 minutes - Mike Lawson	Affirmative Action - 4-0-0	
44	Zoning Bylaw Amendment: Commercial Parking	Economic Vitality Committee	5 minutes - Mike Lawson	Affirmative Action - 4-0-0	Mary Hartman - If Needed
45	Zoning Bylaw Amendment: Planned Residential Development (PRD) Bylaw	Concord Housing Foundation	5 minutes - Matthew Johnson	Affirmative Action 4-1-0	Wendy Rovelli - If Needed
46	Citizen Petition: Zoning Bylaw Amendment: Continuing Care Retirement Community Overlay District	New England Deaconess Assoc.	8 minutes - Mark Bobrowski & Chris Sintros	Report at Town Meeting	Mary Hartman
47	Community Preservation Appropriation Recommendations	Community Preservation Committee	5 minutes - Burt Flint	Affirmative Action - 4-0-0	
48	Authorize Expenditure of Revolving Funds under Mass. Gen. Laws 44 § 53 E1/2	Town Manager	3 minutes - Kerry Lafleur	Affirmative Action 5-0-0	
49	Light Fund Budget and PILOT Payment	Town Manager	2 minutes - Jason Bulger	Affirmative Action 5-0-0	
50	Solid Waste Fund Budget	Public Works Commission	5 minutes - Sven Weber	Affirmative Action 5-0-0	
51	Sewer Fund Budget	Public Works Commission	4 minutes - Sven Weber	Affirmative Action 5-0-0	
52	Sewer Improvement Fund Budget	Public Works Commission	4 minutes - Sven Weber	Affirmative Action 5-0-0	
53	Water System Expenditures	Public Works Commission	4 minutes - Sven Weber	Affirmative Action 5-0-0	
54	PEG Fund Budget	Town Manager	3 minutes - Jason Bulger	Affirmative Action 5-0-0	
55	Beede Swim and Fitness Center Enterprise Fund Budget	Town Manager	3 minutes - Leigh Jackson or Jess Porter	Affirmative Action 5-0-0	
56	Appropriate and Transfer Balance of Parking Meter Fund	Town Manager	4 minutes - Kerry Lafleur	Affirmative Action 5-0-0	
57	Unpaid Bills	Chief Financial Officer	2 minutes - Anthony Ansaldi	Affirmative Action 5-0-0	
58	Debt Recission	Chief Financial Officer	No motion	No Motion Anticipated	

Proposed Select Board Meeting Calendar – June – December 2025

Meeting Date	Agenda Topics
Monday, June 30, 2025	○ Elect FY26 Select Board Officers ○ FY25 Select Board Goal Review ○ FY26 Select Board Goal Discussion ○ MCI Concord Scenarios and Advisory Board Recommendation Status ○ 2026 ATM Calendar ○ Liaison Assignments discussion
Monday, July 14, 2025	○ Receive Town Manager's FY25 Self-Evaluation and FY26 Goals ○ Adopt FY26 Select Board Goals ○ Discuss FY27 Budget Priorities ○ Adopt Liaison Assignments
Monday, July 28, 2025	○ Town Manager's FY25 Evaluation Input Due ○ Land Use Working Group Status ○ MCI Concord Zoning readiness discussion
Monday, August 11, 2025	○ Town Manager's FY25 Evaluation discussion and vote ○ FY25 Financial Close Out Status
Monday, August 25, 2025	○ Town Manager's FY27 Budget Memo Review
Monday, September 8, 2025	
Monday, September 22, 2025	
Monday, October 6, 2025	○ FY26 Select Board Goals Status
Monday, October 20, 2025	
Monday, November 3, 2025	
Monday, November 17, 2025	○ FY26 Tax Rate Classification Hearing
Monday, December 1, 2025	○ FY27 Guideline Implications discussion ○ Batch 1 of Select Board Annual License Renewals

DRAFT

OPTION 1: Tuesday, December 16, 2025 * Monday, December 15th is the First Night of Hanukkah *	○ Batch 2 of Select Board Annual License Renewals
OPTION 2: Monday, December 22, 2025	○ Batch 2 of Select Board Annual License Renewals

DRAFT

Molly and Patrick Mascia
Property Owners and Primary Residents
401 Elm St Concord MA 01742

Dear Concord Select Board -

We are writing with material to support our request for removal of 2 pine trees at 401 Elm St.

We recently purchased the property and moved our young family here. We are grateful to enjoy many large, mature and beautiful trees and have made significant investments to proactively seek maintenance tree work from a professional arborist. We have invested in pruning, mold treatments, and cabling to support keeping as many trees alive and healthy as possible.

On thorough review, our arborist Jon Grinnell noted two large pines in failing health in our front yard which fall on town property. Jon has noted that both of these trees are dead on their upper portion (pictured below) which will not recover, and one has a significant split at the bottom which compromises tree integrity. Jon assesses that the trees are hazardous to the roadway, people and property. Furthermore, both pines have fungus causing their demise, which will spread to and threaten the adjacent healthy white pines that we are working hard to maintain.

We are asking for the Select Board's support to remove the two pictured trees given their compromised health and active disease, in effort to maintain safety and healthy trees on the rest of our property for the benefit of everyone.

Thank you for your consideration,
Molly and Patrick

CONCORD PUBLIC SCHOOLS
CONCORD-CARLISLE REGIONAL SCHOOL DISTRICT

120 MERIAM ROAD CONCORD, MA 01742 PHONE 978-318-1500 FAX 978-318-1537 www.concordps.org

To: Concord-Carlisle Regional School Committee

From: Robert Conry, Assistant Superintendent of Finance and Operations

CC: Dr. Laurie Hunter, Superintendent

Date: May 13, 2025

Subject: Excess and Deficiency Update

Recommended use of E&D funds (VOTE REQUIRED)

On April 10, 2025, the CCRSD School Committee voted to authorize the use of $400,000in E&D funds for the following purposes:

- $200,000 to serve as the district's FY25 OPEB contribution
- $200,000 to be transferred to Capital Stabilization, to serve as a safety net for unanticipated capital needs, or for future capital needs in general that may be needed in the coming years (Memorial Field turf replacement). It can also serve as a contingency in the event of significant cost escalation on the amenities building.

Recent events have resulted in changing needs, and District Administration is writing to request modification to the use of these E&D funds.

- $50,000 to be allocated to the budget to provide counseling and mental health services (staffing, and contract services, and any other needs) to support students and staff at CCHS
- $350,000 to be allocated to Capital Stabilization
  (No contribution to OPEB)

In the wake of the recent tragic loss of three CCHS seniors, the needs for counseling services needs no further explanation.

The increase in the Capital Stabilization contribution enables the district to maintain a safety net of contingency funds for the Amenities Building project. The $350,000 will fully cover the sewer connection fees that may possibly be assessed, and leave room to address any unforeseen issues that may arise. If these funds are not needed for the Amenities Building project, it provides a healthy start to building up the capital stabilization fund, to put towards future capital projects on an approved CCHS Capital Plan.

The District will present a five-year Capital plan for CCHS as part of its FY27 Budget process and seek approval from CCRSD School Committee, and both member towns. Currently turf replacement at Memorial Field is the one known item that we anticipate requiring district funding in the next 2 - 3 years.

Motion:

[I move] To approve the reallocation of the use of $400,000 in E&D funds that was previously approved on April 10, 2025, for the purposes outlined in this memo.

From:	Andrade, Nikki
To:	Mary Hartman; Kerry Lafleur; Anthony Ansaldi
Cc:	Elliott, Laurie; Driscoll, Heidi; ledoux.steven@gmail.com
Subject:	Appropriation of Minuteman"s Excess and Deficiency Funds
Date:	Friday, May 16, 2025 1:12:16 PM
Attachments:	image001.png FY25 Budget Amendment - Capital Stabilization - Concord.pdf

---

Good afternoon Chair Hartman, Kerry and Anthony,

Please see the attached Letter to the Select Board.

The Minuteman Regional Vocational Technical School District FY2024 Excess and Deficiency was certified in the amount of $2,450,753 by the MA Department of Revenue on April 29, 2025. This certification remains valid through June 30, 2025. A decision to appropriate these funds for use may only be done during the period in which it is certified.

On May 13, 2025, the Minuteman Regional Vocational Technical School Committee voted unanimously to appropriate $424,095 from certified excess and deficiency to be transferred to the Capital Stabilization Fund. This transfer will maximize the total allowable contribution to our Capital Stabilization Fund, which supports future capital needs. As of March 31, 2025, the Capital Stabilization Fund is currently valued at $3,822,236.

The above action will resultz in an amendment (increase) to the FY2025 Minuteman Regional Vocational Technical School District's approved budget. Under CMR 41.05 (5), the Treasurer must submit the proposed amendment to the members of the regional district within seven (7) days of the School Committee vote for the local appropriating authority approval. If the Town of Concord takes no further action after 45 days from the date of the vote, the action of the School Committee will be deemed approved. Conversely, the Town of Concord may confirm approval through a statement by the Select Board or through a Town Meeting before the expiration of the 45-day period.

The Minuteman Regional Vocational Technical School Committee will not act on this appropriation unless it is positively endorsed by two-thirds of the member towns. **This action will not change the assessment already established with the Town of Concord.**

On May 13, 2025, the Minuteman Regional Vocational Technical School Committee also voted unanimously to approve an operating transfer within the current FY2025 Budget of $425,000 to the OPEB Trust Fund. As of March 31, 2025, the OPEB Trust Fund is currently valued at $1,710,416. Minuteman's Unfunded Liability is $22,019,341 as of June 30, 2024.

If you have any questions, please feel free to reach out via email or telephone.

Thank you,

Nikki Andrade
Business Manager

Minuteman Regional Vocational Technical School District
758 Marrett Road, Lexington, MA 02421
T 781-274-1033
F 781-538-6703
www.minuteman.org

Public Records Law and Privacy Disclaimer

MINUTEMAN
HIGH SCHOOL REVOLUTIONIZED

May 15, 2025

Select Board
Town of Concord
22 Monument Square, P.O. Box 535
Concord, MA 01742

Re: Appropriation of Excess and Deficiency Funds

The Minuteman Regional Vocational Technical School District FY2024 Excess and Deficiency was certified in the amount of $2,450,753 by the MA Department of Revenue on April 29, 2025. This certification remains valid through June 30, 2025. A decision to appropriate these funds for use may only be done during the period in which it is certified.

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If you have any questions, please contact Nikki Andrade, Business Manager at nandrade@minuteman.org or 781-274-1033.

Respectfully submitted,

Laurie Elliott
Treasurer

cc: Minuteman Regional Vocational Technical School Committee
Nikki Andrade, Business Manager
Kerry Lafleur, Town Manager

Liaison Report-Terri Ackerman-5/27/25

2229 Main Street Oversight Committee

- At the quarterly community meeting, de Maximus contractor and their subcontractors reviewed the 95% design for the holding basin wall and cap. This is the most contaminated area on the site. The physical wall, along with iron injections, is estimated to hold for 200 to 1,000 years.

- The Committee has an opening and is especially looking for someone who has **expertise with concrete walls.** It is important for the Oversight Committee to verify that water will not be able to get through the cement walls of the holding basin.

Public Works Commission

- Stormwater rates and credits were presented at a Public Hearing, discussed and then approved.
- Article 13, Amenities Building, was discussed in detail. The main problem is capacity at the water treatment plant. The Commission asked Assistant Superintendent Bob Conry to work with the Board of Health (see below) to see if the capacity estimate can be adjusted, and also to come back with more information on the costs of alternative plans (compost, leaching field).
- The Commission discussed Article 32, Improvements to Darton and Dover Streets, and voted to not move the article at town meeting. Staff will continue working with the neighborhood for a solution.

Hanscom Field Advisory Committee

- The supplemental environmental impact report (SDEIR) for the North Airfield expansion will be filed in late summer or early Fall.
- In the meantime, there has been an important change to the project. Merlin Labs, an AI company researching autonomous aviation, wants to lease the old Navy Hangar at Hanscom. If approved, they will fly test flights in the Hanscom vicinity, including Concord.
- MEPA is requiring a “report of project change” from the developer of the North Airfield. This will be followed by a public comment period in June.

250th Executive Committee

- The Executive Committee wants to extend a special thank you to all the town staff for the tremendous amount of work you did to make April 19 such a success! We have received SO many positive comments about how people felt safe, had so much fun, and how proud they are to be part of Concord.
- Attendees were overwhelmingly positive and well behaved. Despite the crowds trying to board buses at the Concord Museum, the Director reported that they did not leave even 1 piece of litter on the museum grounds. After the parade, Public Works did not have to sweep the streets along the route.
- There were over 500,000 views on social media in April.
- Invoices are still coming in, including for public safety, which were 80% of the total expenditures. So, we do not yet know if we broke even, had a deficit, or small surplus.
- The Executive Committee is preparing a comprehensive final report for future celebration committees, as well as historians.
- The committee is looking ahead to planning events thru July 4, 2026.

Land Use Working Group

I'd like to take this opportunity to state why I am the best candidate for the at-large member:

- Concord experience: 6 years on SB, 6 years on FC, 2 years on CPC. 2 years as SB liaison to the Concord Public Works Commission.
- Can hit the ground running: Familiar with the parcels and important documents (Envision Concord, Housing Production Plan, etc.)
- Open minded. Not an advocate for any 1 use. I believe the at-large member should represent the town as a whole.
- Phase 1 of the charge calls for detailed knowledge of Public Works and Public Safety. With 25 years experience as Town Admin/Budget Officer, I understand the crucial importance of response times and why location really matters.

Transportation Advisory Committee

- Alyssa Sandovel reported on the Transportation study. After a pause of almost a year, Stantec has resumed work on a matrix of transportation solutions, utilizing best practices from other communities. A hybrid workshop is being planned, where the public can hear proposed solutions and give input.
- TAC discussed the recent MCI workshop. There was agreement that the workshop was engaging and well-done. More public transportation tie-ins to West Concord are needed.

Board of Health

- Regarding the CCHS Amenities Building, the BOH voted to support the request for a waiver to the plumbing code for a lower number of lavatories (sinks).
- Unfortunately, the School Dept. has not yet applied to adjust the estimated capacity (see Pub Works above). However, Health Agent Melanie Dineen stated that according to the Title V, she will not be inclined to recommend reducing the estimated capacity.

Mary Hartman Liaison Report for May 27,2025 Select Board meeting

CPC (5/21)

CPC considered developing a written policy to handle off-cycle applications in response to the late application from CCHS for the Amenities Bldg. They are also considering moving the application deadline a few weeks later (current deadline is Sept) while still leaving time to thoroughly vet applications before the close of the warrant (usually early January).

EVC (5/21)

The Committee voted to recommend No Action on Article 36 – Home Rule Petition for ban on SGARs and Recommend Affirmative Action on Article 33 – MCI Planning. They agreed to draft goals for FY26 and forward these to the Select Board for consideration when the SB determines their FY26 goals.

ConcordCAN (5/20)

The group heard brief presentation on town meeting articles that intersect with sustainability goals. They were:

- Article 36 – Home Rule petition to ban SGARs
- Article 8 – Debt Exclusion for Road Maintenance
- Article 34 – Stormwater Enterprise Fund budget
- Article 28 – Rank Choice Voting
- Article 47 – CPC Funding

Concord Center Cultural Council annual get-together (5/20)

Attended an event hosted by the CCCC, where recipients of MassCulturalCouncil grants – awarded thru the council – described how these funds were used to promote arts and culture in Concord and surrounding town. The projects included chorale groups, piano recitals, flamingo bingo, Concord band, among others. Highlighted how well the arts promote inclusivity and diversity (not to mention FUN) within a community.

FinCom (5/22)

The CFO began by explaining how the town's certified free cash balance grew from $9.3M to $15.9m (a 71% increase) from June 2023 thru June 2024. His presentation was mailed to all Select Board members on May 22.

The committee wrapped up the year by reviewing progress towards their FY25 goals and lessons learned. They also elected their slate of officers for FY26 by electing:

- Lois Wasoff, chair;

- Lyndsey Lis, vice-chair;
- Karlen Reed, clerk;
- Pat Geyer, vice-clerk;
- Don Kupka, Guideline sub-committee chair;
- Paul Rodrigues, Guideline sub-committee vice-chair.