*Joseph Buckley*

*Director of Public Works*

DPW – 39 South Hunt Road
Amesbury, MA 01913

Tel.: (978) 388-8116

buckleyj@amesburyma.gov

AMESBURY
PUBLIC
WORKS

# MEMORANDUM

Date: 10/7/2026

Atten: Municipal Council

Subject: National Grid Pressure Relief Vault Pet. –
W.O. #90000236921 Chestnut St Extension.
Petition Sketch received 12-2-2025

Amesbury Public Works has reviewed the proposed Pressure Relief Vault Installation requested by National Grid for Chestnut St. Extension in Amesbury on the Petition Plan W.O. #90000236921 dated December 2, 2025 and received by the City on December 2, 2025.

Public Works has no significant concerns with the installation of the pole. Public Works would request that National Grid confirm that the proposed installation does not conflict with other utilities within the edge of the City right of way prior to installation.

Public Work's review was completed to address the City's concerns of possible underground utility conflicts. This review was not intended to provide any indication that the property owners abutting the proposed pole location have no concerns with the pole.

Prior to installation of the Pressure Relief Vault, Dig Safe, the City of Amesbury Department of Public Works, and the City Water and Sewer Departments shall be informed of the proposed activities.

Should additional information be required, please feel free to contact Joseph Buckley, Director, or myself.

Sincerely,

10/07/26

Patrick McDonald
Assistant Director of Public Works.

**PETITION OF BOSTON GAS COMPANY d/b/a NATIONAL GRID**
**FOR GAS FACILITY LOCATION(S)**

**City of Amesbury, City Council**

Boston Gas Company d/b/a National Grid hereby respectfully requests your consent pursuant to Section 70 of Chapter 164 of the General Laws of Massachusetts to locate a **Pressure Relief Vault** in and under the public streets, lanes, highways, sidewalks and places of the **City of Amesbury** listed below, and to dig up and open the ground in said location(s) in order to lay or place such facilities or to otherwise accomplish the objectives of the Company. Such facilities may be above ground and below ground and include pipes, valves, governors, manholes and other structures, fixtures and appurtenances, as are designed and intended for the transmission and distribution of gas, the protection or operation of said facilities, and/or to otherwise accomplish the objectives of the Company.

**To install a pressure-relief vault along Chestnut Street Extension in accordance with the attached plans.**

**Date: October 2, 2025**

By: Diana Cuddy
Diana Cuddy
Gas-Ops NE
Boston Gas Company dba National Grid

**ORDER**

**By the City Council, City of Amesbury:**

IT IS HEREBY ORDERED that the petition of Boston Gas Company d/b/a National Grid dated **October 2, 2025**, which is attached hereto and made a part hereof, to locate **pressure-relief vault** for the transmission and distribution of gas, including any pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said facilities or otherwise accomplish the objects of said Company, in and under the public streets, lanes, highways and places of the **City of Amesbury** substantially as described therein, and the digging up and opening of the ground to lay or place same, is hereby consented to and approved.

Petitioner Boston Gas Company d/b/a National Grid shall comply with all provisions of law and ordinances of the **City of Amesbury** as are applicable to the enjoyment of said locations and rights.

Dated this _____ day of _____, 20____.

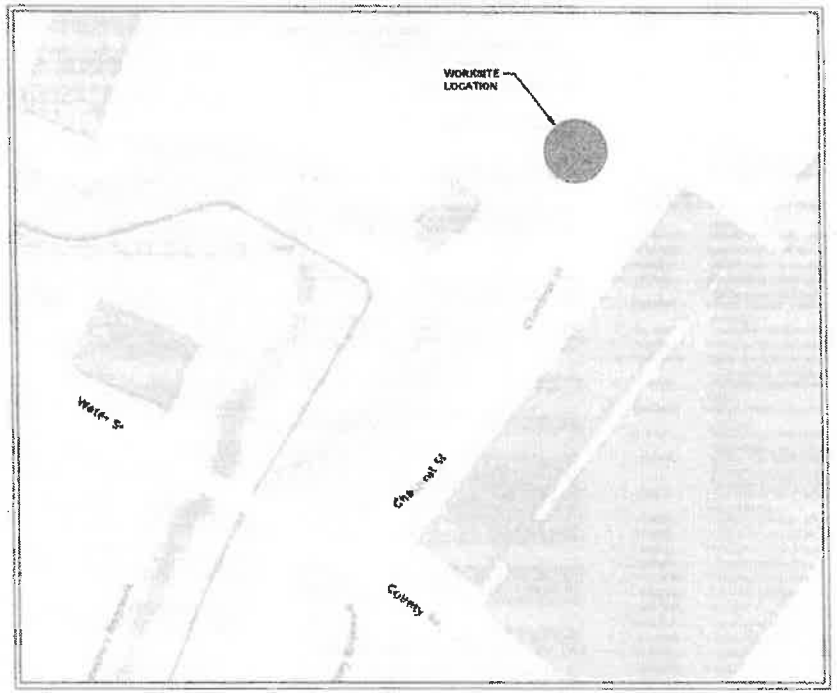
I hereby certify that the foregoing order was duly adopted at a noticed open public meeting by the **City Council of the City of Amesbury, MA** on the _____ day of _____, 20__.

By: _____
City Clerk

**W.O. # 90000236921**

**RETURN ORIGINAL TO THE MAPS AND RECORDS**
**NATIONAL GRID**
**170 DATA DRIVE, WALTHAM, MA 02451**
**RETAIN DUPLICATE FOR YOUR RECORDS**

# 6"X8" LP RELIEF VALVE INSTALLATION
# STATION #1114 - 60 PSIG TO 14" W.C.
# COUNTY ROAD @ WATER STREET
# AMESBURY, MA
# W.O.: 90000236921




LOCUS
SCALE: 1" = 2

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| 13 | FAC-AME-236921 E-001 | HAZARDOUS AREA CLASSIFICATION PLAN |
| 1 OF 1 | 19039 #1CM-NAMEBB.MYCD WO | EXISTING CONDITIONS PLAN OF LAND IN AMESBURY, MASSACHUSETTS ESSEX COUNTY |

| NO. | DESCRIPTION | DATE | BY | CHK |
|---|---|---|---|---|
| 1 | DRAFT ISSUE - ISSUED FOR REVIEW | 06/14/2024 | LZ | CMM |

National Grid
170 DATA DRIVE
WALTHAM, MA 02451

ISSUED FOR REVIEW

6"X8" LP RELIEF VALVE INSTALLATION
STATION #1114 – 60 PSIG TO 14" W.C
COUNTY ROAD @ WATER STREET
AMESBURY, MA

COVER SHEET

| DWG SIZE | DESIGNER | ENGINEER | DATED | JOBSET I.D. | W.O. NO.D |
|---|---|---|---|---|---|
| 22"X34" | L. JOYE | C. HOWER | 06/18/2024 | ITH | WWWWWW |

PAGE 1 OF 13

| DRAWING NO | SHEET NO. |
|---|---|
| GRS-AME-236921 | G-001 |

# DETAILED / COMPLEX PROJECT NOTES SHEET

SCOPE OF WORK:

NATIONAL GRID WORK ORDER NUMBER 90000255021

PROJECT NAME AND LOCATION:

PROJECT SCOPE: INSTALL A NEW PREFABRICATED RELIEF VALVE WITH ALL EQUIPMENT CONTAINED WITHIN A SINGLE CONCRETE VAULT. A SCADA BOX AND HEAT PILES SHALL ALSO BE INSTALLED AS SHOWN IN THE DESIGN.

MATERIAL GRID CONTACT INFORMATION:

| | |
|---|---|
| I&R SUPERVISOR | SHAWN WARD |
| CELL NUMBER: | (617) 271-3093 |
| EMAIL: | SHAWN.WARD@NATIONALGRID.COM |
| ENGINEER: | CODY MOHNER |
| CELL NUMBER | (978) 778-6435 |
| EMAIL: | CODY.MOHNER@MAYOWALLGROUP.COM |

GENERAL:

1. NO FIELD CHANGES SHALL BE MADE TO THIS PLAN WITHOUT APPROVAL OF ASSIGNED NATIONAL GRID PROJECT ENGINEER AND THE CONSTRUCTION SUPERVISOR.
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 (IRRESPECTIVE OF MAIN TYPE)
   C. DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
3. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
4. FOR ANY DEPTH OF COVER THAT CANNOT MEET THE REQUIREMENTS OF NOTE 2 B. C, OR D, THE EN5T040017, SHALLOW MAIN PROCESS MUST BE FOLLOWED. ALL REQUESTS FOR SHALLOW MAINS AND FITTINGS MUST BE APPROVED PRIOR TO INSTALLATION. CONSTRUCTION SUPERVISOR AND CONTRACTOR SHALL REFER TO EN5T040017, SHALLOW MAINS POLICY (NA ONLY) FOR REQUIREMENTS AND GUIDANCE WHEN ENCOUNTERING FIELD CONDITIONS THAT MAY LEAD TO INSTALLING A SHALLOW DISTRIBUTION MAIN OR FITTING. THE FOLLOWING PERSON SHALL BE CONTACTED TO OBTAIN DPU APPROVAL:

   LEAH MOORHEAD – (617) 435-3069

5. FOLLOWING ANY SHALLOW MAIN APPROVAL REFER TO EN5T030040 FOR PROPER INSTALLATION OF PROTECTIVE STEEL PLATES.
6. 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.
7. 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.
8. ELBOWS SHOWN ARE ASSUMED TO BE 45 DEGREES IN MOST APPLICATIONS. 22.5 AND/OR 90 DEGREE ELBOWS MAY BE NEEDED BASED ON FIELD CONDITIONS.
9. VALVES DEPICTED ON 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.
10. VALVES AND BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.
11. TIE-IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY:
   A. RELIEF VALVE 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.
12. NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.

SERVICE SPECIFIC NOTES:

1. FOR INSTALLATION OF "DEAD" PIPE, PLASTIC PRIME TEES AND BRANCH SADDLES ARE STRICTLY UNACCEPTABLE. PROVIDED THE SADDLE IS TAPPED OUT TO THE MAXIMUM SIZE ALLOWED BY THE MANUFACTURER.
2. EVEN IF NOT FIELD MARKED BY DIGSAFE, CONTRACTOR SHALL VERIFY THE LOCATION OF ALL REGULATOR VAULT VENTS AND CONTROL PRIOR TO CONSTRUCTION. THIS SHALL BE DONE IN CO-ORDINATION WITH NATIONAL GRID DAMAGE PREVENTION AND I&R.
3. CONTRACTOR SHALL COMPLETE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A – TEST HOLES, TEST PITS OR OTHER PHYSICAL VERIFICATION OF REQUIRED EXISTING GAS MAIN AND OTHER UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.
4. THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 4 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT AND ACTUAL PIPE ALIGNMENT AND FACILITY LOCATION.
5. ALL DRAWING DIMENSIONS SHOWN ARE ESTIMATED AND ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL FINAL DIMENSIONS PRIOR TO FABRICATION BASED ON ACTUAL FIELD CONDITIONS, AND FOR ALLOWING SUFFICIENT FIELD BENDS TO ACHIEVE THE COMPLETED ASSEMBLY.
6. THE PLANS SHOW SUBSURFACE STRUCTURES. ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.
7. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ON SITE FIELD MARKS, ANY EXISTING PROPERTY LINE MONUMENTATION OR OTHER EXISTING SURVEY STAKES OR FIELD MARKS. THE CONTRACTOR SHALL REPLACE A THEIR EXPENSE ANYTHING DISTURBED OR DESTROYED.
8. STANDARD RELIEF VALVE VAULT FABRICATED BY OTHER. DELIVERY OF VAULT SHALL BE COORDINATED WITH ANY STATE PIPING CONTRACTOR SHALL UNLOAD AND SET IN THE LOCATION SPECIFIED IN THESE DRAWINGS.
9. PROPERTY LINES SHALL BE MARKED OUT ON SITE BY CONTRACTOR PRIOR TO EXCAVATION TO CONFIRM PLACEMENT OF FACILITIES IN THE PUBLIC RIGHT-OF-WAY.
10. 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.
11. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
12. THE CONTRACTOR SHALL RESTORE PAVEMENT, LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY AS INDICATED IN THIS DRAWING SET.
13. THE CONTRACTOR SHALL COMPLETE MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PAVEMENT PATCHING, TRENCH & EQUIPMENT BLOCKING, TREE TRIMMING, ETC.
14. ALL PAVEMENT PATCHING SHALL CONFORM TO RESTORATION PLANS AND DETAILS AS AGREED WITH EACH TOWN PERMIT OR TRENCH ORDER AND/OR APPLICABLE STATE OR AGENCY PERMITS.
15. PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY NATIONAL GRID. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL GRASS AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH LOAM AND SEED.
16. 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.
17. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS NATIONAL GRID SAM AND ALSO ANY APPLICABLE STATE DOT STANDARDS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTAINERIZATION OF ALL DEWATERING FLUIDS INTO FRAC TANKS FOR OFF-SITE DISPOSAL. DEWATERING FLUIDS / GROUNDWATER SHALL NOT BE DISCHARGED DIRECTLY TO THE GROUND SURFACE, COLLECTION UTILITIES OR NEIGHBORING WATER BODIES. OPEN EXCAVATIONS SHALL BE PROTECTED WHEN FEASIBLE TO PREVENT INTRODUCTION OF STORMWATER RUNOFF AND/OR PRECIPITATION INTO THE EXCAVATION (E. STAKED HAYBALES TO BERM THE EDGE OF EXCAVATIONS, ETC.) THE CONTRACTOR SHOULD MAKE AN EFFORT TO DEWATER EFFICIENTLY DURING THE WORK.
20. ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN UNPAVED AREAS, ALL FRAMES SHALL BE 0.1" ABOVE GRADE.
21. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
22. 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.
23. 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.

CODES :

1. WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES. WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.
2. ALL REFERENCED CODES SHALL BE IN ACCORDANCE WITH THE VERSION APPROVED BY PHMSA AT THE TIME OF CONSTRUCTION.
3. FEDERAL & STATE:
   A. RULE 49, PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
   B. AMERICAN SOCIETY OF MECHANICAL ENGINEERS
      ASME B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS
   C. 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
      100.00 – 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE

NATIONAL GRID STANDARDS & POLICY

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF NATIONAL GRID STANDARDS & POLICY, MATERIAL STANDARDS AND SPECIFICATIONS AND TECHNICAL COMMUNICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCESS NATIONAL GRID DATA.
2. WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:
   A. EN5T010003: BACKFILL AND RESTORATION
   B. EN5T010004: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
   C. EN5T010006: COMMERCIALLY AVAILABLE SHORING SYSTEMS
   D. EN5T030011: SQUEEZE-OFF OPERATIONS
   E. EN5T030022: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS
   F. EN5T030005: PURGING REQUIREMENTS FOR GAS PIPELINES
   G. EN5T030046: PURGING OPERATIONS – DIRECT DISPLACEMENT
   H. EN5T030071: PURGING OPERATIONS – COMPLETE INERT FILL
   I. EN5T030068: PURGING OPERATIONS – SLUG METHOD
   J. EN5T030016: STOP OFF OPERATIONS FOR RISER EQUIPMENT
   K. EN5T040005: INSTALLING STEEL DISTRIBUTION MAINS
   L. EN5T040007: FIELD COLD BENDING OF LINE PIPE
   M. EN5T040068: INSTALLING PLASTIC MAINS
   N. EN5T040017: SHALLOW MAINS POLICY
   O. EN5T050011: JOINING OF PLASTIC PIPE
   P. EN5T050015: INSTALLATION OF DRESSER 7000 COUPLINGS
   Q. EN5T30010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING
   R. DAM010131: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND
   S. DAM010137: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES
   T. DAM010138: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES
   U. DAM010230: PIPELINE MARKERS FOR MAIN AND TRANSMISSION LINES
   V. DAM050002: PROCEDURE FOR LOCATING AND MARKING OUT SUB-SURFACE FACILITIES
   W. GCDM020001: SYSTEM OPERATING PROCEDURE (SOP)
   X. GDM01001: REMOTION OPERATOR QUALIFICATION PLAN
   Y. GDM03002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES
   Z. GDM03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
   AA. WRM08003: SUPPLEMENTAL GOOGLE MAP FOR NEW PIPING
   BB. MAM05J06: INSTALLATION OF POLYETHYLENE PIPE
   CC. MDEM5G10: JOINTS OTHER THAN WELDED
   DD. 030918-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES
5. SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:
   A. SERV-SIMS: HOT TAPPING MD BRANCH SADDLES OFF 6IN – 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL
6. SEE FINAL PAGE(S) FOR APPLICABLE STANDARD DESIGN DRAWING:
   A. 030018-CS: TRAFFIC PLATE SPECIFICATION AND HANDLING OF TRAFFIC PLATES
   B. 030028-CS: INSTALLATION OF MAGNESIUM ANODES
   C. 030038-CS: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
   D. 030028-CS: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
   E. 030036-CS: INSTALLING WIRE CONNECTIONS
   F. 060001-CS: INSTALLATION OF SUBMERSIBLE CATHODIC PROTECTION RECTIFIER
   G. 060022-CS: INSTALLATION OF POLE MOUNTED CATHODIC PROTECTION RECTIFIER
   H. 060023-CS: INSTALLATION OF IMPRESSED CURRENT ANODE
   I. EN5T80030: PROTECTIVE STEEL PLATING FOR GAS MAINS AND SERVICES
   J. EN5T80045: SUPPORT REQUIREMENTS FOR EXPOSED AND UNDERMINED STEEL OR PLASTIC GAS FACILITIES
   K. EN5T80060: INSTALLATION OF MARKER TAPES AND EMS PIPELINE LOCATIONS FOR MAINS AND SERVICES
   L. EN5T80061: TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES
   M. EN5T80084: ALUMINUM HYDRAULIC SHORING – VERTICAL SHORES FOR SOIL TYPE A
   N. EN5T80087: ALUMINUM HYDRAULIC SHORING – VERTICAL SHORES FOR SOIL TYPE B
   O. EN5T80088: ALUMINUM HYDRAULIC SHORING – WALER SHORES FOR SOIL TYPE B
   P. EN5T80091: ALUMINUM HYDRAULIC SHORING – WALER SHORES FOR SOIL TYPE C
   Q. GS-EN5T3002: TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES
   R. GS-UWE001: ACCEPTABLE METHODS OF ISOLATION FOR PERFORMING HOT WORK
   S. GS-UWE002: TEMPORARY BYPASSES ON PLASTIC, CAST IRON OR STEEL MAINS
   T. GS-MAIN004: PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS
   U. MAIN0095: 6" PLASTIC TO 8" STEEL TIE-IN
   V. MAIN0175: 12" PLASTIC TO 12" PLASTIC GAS MAIN TIE IN WITH ELECTROFUSION COUPLING
   W. PURG040, TYPICAL NITROGEN PURGE ARRANGEMENT
   X. REGU0056: 1-1/4 IN. STEEL REGULATOR STATION CONTROL LINES
   Y. VALV0010: STEEL VALVE INSTALLATIONS 2 IN – 12 IN. FOR DISTRIBUTION SYSTEM OPERATING UP TO 124 PSI
   Z. VALV0020: 2 IN. – 12 IN. POLYETHYLENE VALVE INSTALLATION ON GAS MAIN
   AA. GAM09010: GAS PIPELINE MARKER
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCESS NATIONAL GRID STANDARDS AND WORK METHODS TO ENSURE THAT THE METHODOLOGY USED CONFORMS WITH THE LATEST PROCEDURES.
8. LATEST POLICIES AND PROCEDURES MAY BE OBTAINED FROM: HTTPS://SSO-NATIONALGRIDPLC.MSAPPROXY.NET/LOGIN/STS/SP3MODE18.ASP. CONTRACTORS SHALL BE PROVIDED THEIR OWN USERNAME AND PASSWORD BY NATIONAL GRID GAS WORK METHODS.
9. SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATIONS. STANDARD AND/OR APPLICABLE NATIONAL GRID "ETIS" REFERENCE. NOTE THAT THE BOM GENERALLY DEPICTS MATERIAL TO BE PROVIDED BY NATIONAL GRID. ADDITIONAL MATERIALS NOT DEPICTED ON THE BOM MAY BE REQUIRED AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. SEE TIE IN DETAILS FOR APPLICABLE MAIN CONNECTION REFERENCES.

DESIGN CRITERIA:

1. DESIGN IN ACCORDANCE WITH THE FOLLOWING:
   A. EN5D010025: DESIGN OF GAS REGULATOR STATIONS
   B. EN5D040001: DESIGN OF DISTRIBUTION MAINS
2. INLET PIPING:
   A. DESIGN CLASS LOCATION: 4
   B. NOMINAL SIZE & WALL THICKNESS (WT): 8-INCH / 0.438 WT
   C. MATERIAL & GRADE (HIGHEST GRADE SHOWN): HDPE 3608 13.5
   D. MAOP: 4P
   E. GAS VELOCITY (AT MINIMUM OPERATING PRESSURE): 1.91 FEET /SECOND
3. PID.EF VALVE SIZING PARAMETERS
   A. RELIEF VALVE SET PRESSURE: 30" WC
   B. DESIGN RELIEF LOAD: 44,212 SCFH

| NO. | DESCRIPTION | DRAWN BY | DATE | APPROVED BY |
|---|---|---|---|---|
| A | INITIAL ISSUE FOR REVIEW | LJ | 09/19/2024 | CMH |

nationalgrid
100 DATA DRIVE
WALTHAM, MA 02451

6"X8" LP RELIEF VALVE INSTALLATION
STATION #1114 – 60 PSIG TO 14" W.C.
COUNTY ROAD @ WATER STREET
AMESBURY, MA

CONSTRUCTION NOTES

| DWG AUTH | DRAFTSMAN | ENGINEER | DATED | ASSET I.D. | W.O. NO.S |
|---|---|---|---|---|---|
| SCHAM | L. JOHO | C. MOHNER | 09/19/2024 | 1114 | 90000255021 |

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| DRAWING NO. | SHEET NO. |
|---|---|
| GRS-AME-236921 | G-002 |

# DETAILED / COMPLEX PROJECT NOTES SHEET

SEQUENCE OF CONSTRUCTION:

1. CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION, HOLIDAYS, SUNDAYS, AND MONDAYS ARE EXCLUDED
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.
3. NOTIFY NATIONAL GRID GAS IF THE PROJECT IS WITHIN 300 FEET OF A REGULATOR STATION
4. INSTALL MAIN AS INDICATED IN SCOPE OF WORK
5. PACKAGE TEST (SEE PRESSURE TESTING SECTION)
6. PURGE NEW MAIN INTO SERVICE

PRESSURE TEST REQUIREMENTS:

7. PRESSURE TEST ALL DISTRIBUTION PIPING IN ACCORDANCE WITH:
   - A. CH8700003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
   - B. ES-MAINDOM: PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS
   - C. TEST PRESSURE (MINIMUM): 90 PSIG
   - D. TEST DURATION (MINIMUM): 1 HOUR
   - E. TEST MEDIUM: AIR AND/OR NITROGEN

WELDING:

1. NATIONAL GRID WELDING POLICIES AND PROCEDURES INCLUDE:
   - A. CH8700003: WELDING POLICY
   - B. CH8700005: PIPE WELDING SAFETY
   - C. CH8700015: 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 (CROWN): WPS-SMAW-E6010/7018 (LATEST REVISION)
   - B. FILLET WELDS (BRANCH): WPS-SMAW-E6010/7018 (LATEST REVISION)
   - C. IN-SERVICE WELDS: WPS-SMAW-E7018/FCAW (LATEST REVISION)
4. FOR DISTRIBUTION: 10% (AT LEAST 1) OF WELDS SHALL BE SUBJECT TO NON-DESTRUCTIVE EXAMINATION (NDE).
   - A. BUTT WELDS 2-3/4" AND GREATER: 10% RADIOGRAPH
   - B. BUTT WELDS < 2" INCHES: 10% MAGNETIC PARTICLE
   - C. FILLET WELDS: 10% MAGNETIC PARTICLE
5. FOR DISTRIBUTION, NDE IS NOT REQUIRED IF THERE ARE LESS THAN 20 WELDS
6. CONTACT ALEX DEVINE FOR SCHEDULING OF PROJECT QW 452 NDE:

   NAME: ALEX DEVINE
   CELL: (603) 440-5329
   EMAIL: ALEXANDER.DEVINE@NATIONALGRID.COM

LABORER PROTECTION:

1. CORROSION PERSONNEL SHALL BE CONTACTED DURING THE PROJECT:

| | | |
|---|---|---|
| DESIGN REVIEW: | ALANNA GRONDINE | (339) 224-5378 |
| CONSTRUCTION: | DAVE MERNEW | (781) 379-7831 |
| ENVIRONMENT: | ALYSSA APPLIN-MARCOS | (781) 296-7569 |

2. IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT
3. 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING
4. STEEL PIPE, FITTINGS, VALVES AND OTHER CARBON STEEL COMPONENTS TO BE BURIED WHICH ARE NOT FACTORY COATED FOR BURIED SERVICE SHALL BE FIELD COATED.
5. NATIONAL GRID CORROSION POLICIES AND PROCEDURES INCLUDE:
   - A. G30031-01: FACILITY COATING GUIDE
   - B. CORP0100: CORROSION DESIGN CRITERIA
   - C. CORP0200: APPLICATION OF COATING SYSTEMS
   - D. CORP0202: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
   - E. CORP0301: TESTING OF PIPE COATING (HOLIDAY TESTING)
   - F. CORP0401: INSTALLATION OF MAGNESIUM ANODES
   - G. CORP0403: INSTALLATION OF IMPRESSED CURRENT ANODES AND RECTIFIERS
   - H. CORP0502: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
   - I. CORP0504: INSTALLATION OF WIRE CONNECTIONS
   - J. CORP0505: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
   - K. CORP0507: INSTALLATION OF POTENTIAL EQUALIZING GRID
   - L. G30024-01: INSTALLATION OF MAGNESIUM ANODES
   - M. G30026-01: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
   - N. G30028-01: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
   - O. G30038-01: INSTALLING WIRE CONNECTIONS
   - P. G60041-01: INSTALLATION OF SUBMERSIBLE CATHODIC PROTECTION RECTIFIER
   - Q. G60029-01: INSTALLATION OF POLE MOUNTED CATHODIC PROTECTION RECTIFIER
   - R. G60073-01: INSTALLATION OF IMPRESSED CURRENT ANODE

SAFETY:

1. WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE'S SAFETY HANDBOOK, OSHA REQUIREMENTS, AND ALL LOCAL, STATE AND FEDERAL CODES (INCLUDING OSHA STANDARD 29 CFR 1910-1296). WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD OR REGULATION SHALL APPLY.
2. REQUIRED PERSONAL PROTECTIVE EQUIPMENT (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. JOB BRIEFINGS, AT A MINIMUM, SHALL BE CONDUCTED BEFORE THE START OF THE PREP JOB ON EACH DAY OF SHIFT. ADDITIONAL BRIEFINGS MAY BE REQUIRED AFTER EXTENDED WORK BREAKS.
5. CONSTRUCTION SIGNING, 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.
6. NATIONAL GRID SAFETY PROCEDURES COVER THE FOLLOWING CATEGORIES:

   A= ADMINISTRATIVE; B= INSPECTIONS; C= BARRING WORKING SURFACES; D= MEANS OF ACCESS; 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; O= FLEET AND ROADWAY SAFETY
7. ANY AND ALL WORKERS THAT HAVE ARE 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.
8. NATIONAL GRID SAFETY POLICIES AND PROCEDURES INCLUDE:
   - A. SHE01001: GENERAL SAFETY REQUIREMENTS
   - B. SHE01002: SUPPLIED-AIR RESPIRATORS
   - C. SHE01004: USING AND MAINTAINING PORTABLE GAS MONITORS
   - D. SHE01004A: USING AND MAINTAINING FLAME IONIZATION UNITS
   - E. SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
   - F. SHE01006: ENTERING GAS UTILITY VAULTS
   - G. SHE01008: USING AND MAINTAINING THE GAS EXPLORER
   - H. SHE01009: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
   - I. SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES PERFORMED IN THE FIELD
   - J. SHE02038: HANDLING CONTAMINATED MATERIALS AND PPE/RO
   - K. A-105: JOB BRIEFING
   - L. E-801: MATERIAL HANDLING AND RIGGING EQUIPMENT
   - M. F-817: HANDLING COAL TAR WRAP
   - N. I-903: LOCKOUT – TAGOUT CONTROL OF HAZARDOUS ENERGY SOURCES
   - O. J-1002: INCIDENT REPORTING
   - P. L-1201: HOT WORK PROCEDURE
   - Q. M-1301: STANDARDS FOR WORKING IN EXCAVATIONS
   - R. N-1402: CONTRACTOR SAFETY REQUIREMENTS
   - S. O-1702: WORK ZONE TRAFFIC CONTROL

ENVIRONMENTAL:

1. WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.
2. NATIONAL GRID ENVIRONMENTAL CONTACT:

   NAME: JAMIE WALKER
   CELL: (978) 55?-1154
   EMAIL: JAMIE.WALKER@NATIONALGRID.COM

3. CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR ENVIRONMENTAL GUIDANCE FORMS, FOR EXAMPLE EO-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 THAT IS CONTAMINATED SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.
6. CONTRACTOR SHALL REVIEW AND FOLLOW THE SEPTEMBER 2022 SPILL MANAGEMENT PLAN (SMP) ATTACHED IN THE PROJECT WORK ORDER PACKAGE. CONTRACTOR SHALL UTILITY DIVISION ENVIRONMENTAL CONTACT FOR GUIDANCE.
7. NO SOIL MAY BE EXPORTED TO THE SITE UNLESS APPROVED BY THE NATIONAL GRID ENVIRONMENTAL CONTACT.
8. ANY FOUNDATION AND/OR BUILDING MATERIAL (ASPHALT, BRICK AND NON-COATED CONCRETE (ABC)) SHALL BE PROPERLY STOCKPILED. THE OFF-SITE DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, BUT THE ABC MATERIAL SHALL ONLY BE TRANSPORTED FOR OFF-SITE DISPOSAL WITH APPROVAL BY THE NATIONAL GRID ENVIRONMENTAL CONTACT FOR GUIDANCE.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE, MAINTAIN AND REPLACE OR REPAIR (AS NEEDED) ALL EROSION CONTROLS AS NEEDED TO CREATE A STABLE AND SAFE WORK SITE. THE CONTRACTOR SHALL FOLLOW NATIONAL GRID ENVIRONMENTAL GUIDANCE EO-302MC. CONTRACTOR SHALL NOTIFY THE NATIONAL GRID ENVIRONMENTAL CONTACT FOR GUIDANCE.
10. ALL REASONABLE CARE MUST BE TAKEN BY THE CONTRACTOR TO PREVENT THE GENERATION OF DUST DURING SOIL EXCAVATIONS, STOCKPILING, LOADING, AND OTHER SOIL HANDLING ACTIVITIES. DUST CONTROL METHODS INCLUDE SPRINKLING WATER OR MULCHING. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING STREET SWEEPING (AS NEEDED) TO LIMIT OFF-SITE TRACKING OF SOILS
11. CONTRACTOR SHALL REVIEW THE FOLLOWING ENVIRONMENTAL POLICIES AND PROCEDURES:
    - A. SHE02003: ENCOUNTERING GAS OR LIQUIDS SUSPECTED OF CONTAINING PCBS AND/OR HAZARDOUS MATERIALS DURING EXCAVATIONS
    - B. SHE02001: HANDLING CONTAMINATED MATERIALS AND PPE/RO
    - C. EO203-M2: BEST MANAGEMENT PRACTICES
    - D. E0740: USED GAS PIPE MANAGEMENT
12. THE WORK MAY BE SUBJECT TO OTHER ENVIRONMENTAL REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PROJECT WORK ORDER PACKAGE.
13. CONTACT THE ENVIRONMENTAL DEPT. BEFORE EXCAVATING IF THIS PROJECT IS LOCATED IN A POTENTIALLY CONTAMINATED AREA; WITHIN 50 FEET OF WETLANDS/ BODIES OF WATER; WITHIN 200 FEET OF RIVERS/STREAMS AND/OR A FLOODPLAIN AS NOTED ON NATIONAL GRID GIS/GIS MAPS.
14. DISCHARGE FROM DEWATERING SYSTEMS AND ANY REQUIRED REPORTING IS TO BE COORDINATED THROUGH NATIONAL GRID.

OTHER INTERESTING INFORMATION:

1. ALL WORK SHALL BE LIMITED TO THE EXISTING RIGHT-OF-WAYS UNLESS OTHERWISE NOTED.
2. CITY OF AMESBURY STREET OPENING PERMIT

INTERMEDIATE EROSION CONTROL:

1. COORDINATE SEEDING TYPE AND APPLICATION AREAS WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST PRIOR TO CONSTRUCTION.
2. A BONDED FIBER MIX (BFM) WILL BE USED ON SLOPES GREATER THAN 3:1.
3. A FLEXIBLE GROWTH MATRIX (FGM) OR EXTREME SLOPE MATRIX (ESM) MIX BE USED ON SLOPES GREATER THAN 1:1

SURVEY/EXISTING UTILITIES:

1. SITE DETAIL SHOWN IS BASED UPON TOPOGRAPHIC DETAIL SURVEY CONDUCTED BY GPI SEPTEMBER 2023
2. LOCATION OF ANY IDENTIFIED UNDERGROUND UTILITIES IS APPROXIMATE ONLY AND IS NOT GUARANTEED 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.
3. THE PLAN SET IS REFERENCED TO THE MASSACHUSETTS MAINLAND HORIZONTAL COORDINATE SYSTEM, ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), US SURVEY FEET AND REFERENCED TO TEMPORARY BENCHMARKS (TBM'S) NOTED ON THE PLANS HEREIN. IN THE EVENT THAT TBMS ESTABLISHED FOR THIS PROJECT ARE DISTURBED OR THIS SURVEY ARE DETERMINED NOT RECOVERABLE, OR A DISCREPANCY IS FOUND, THE USER SHOULD NOTIFY THE SURVEYOR AND NATIONAL GRID 96 HOURS PRIOR TO COMMENCING OR CONTINUING ANY WORK.

UTILITY OWNER INFORMATION:

AMESBURY PUBLIC WORKS
38 S MAIN RD
AMESBURY, MA 01913
(978) 388-8112

VERIZON TELECOMMUNICATIONS
185 FRANKLIN ST
BOSTON, MA 02107
(800)870-9900

GAS AND ELECTRIC
NATIONAL GRID
170 DATA DRIVE
WALTHAM, MA 02451
(800) 640-1585

| NO. | DESCRIPTION | APPROVED DATE | BY |
|---|---|---|---|
| A | DRAFT WORK ISSUED FOR REVIEW | 10/30/2023 | JJP |

DESIGN AND CONSULTING SERVICES
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

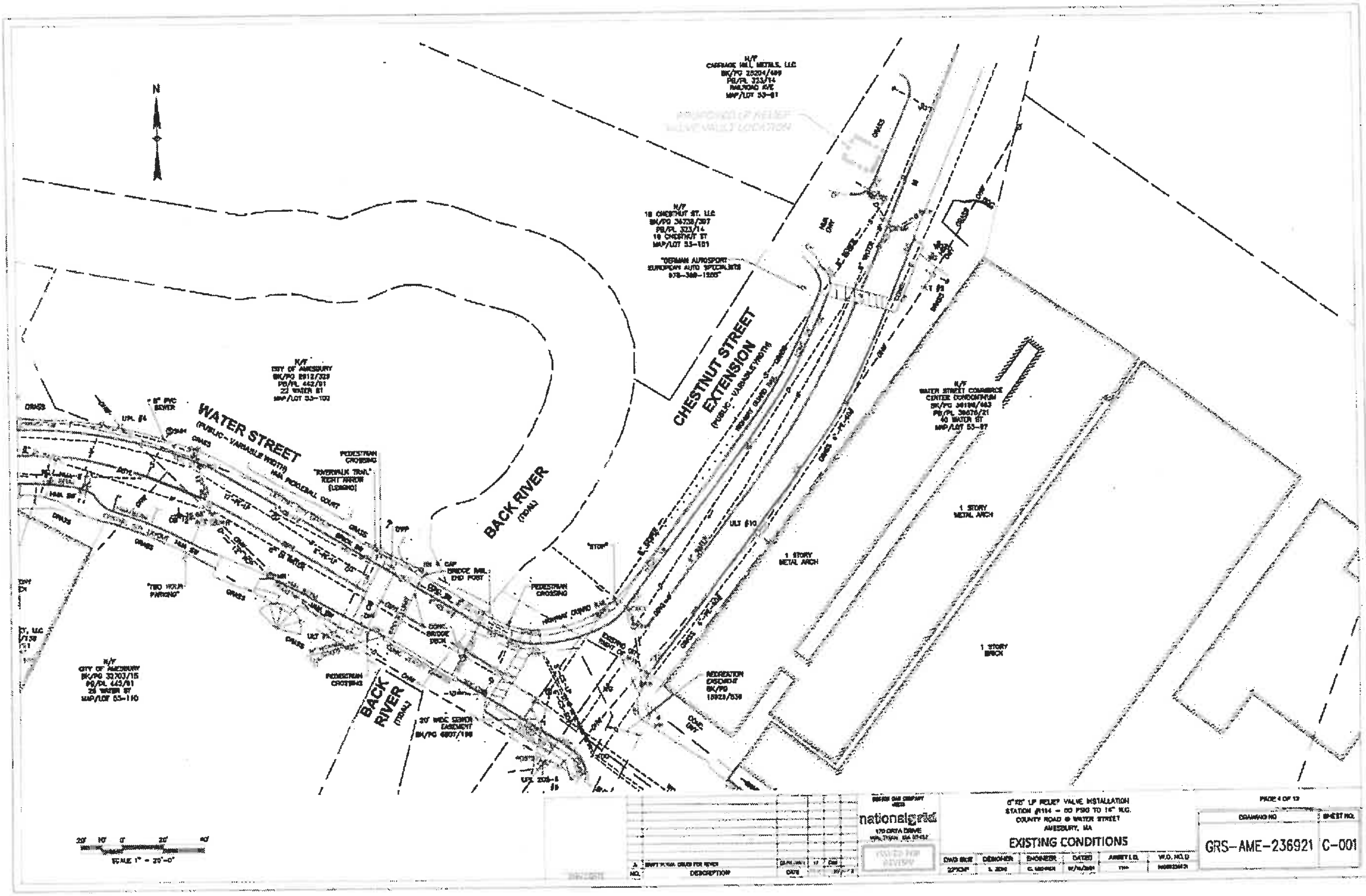
6"/8" LP RELIEF VALVE INSTALLATION
STATION #114 – 60 PSIG TO 14" W.C.
COUNTY ROAD @ WATER STREET
AMESBURY, MA

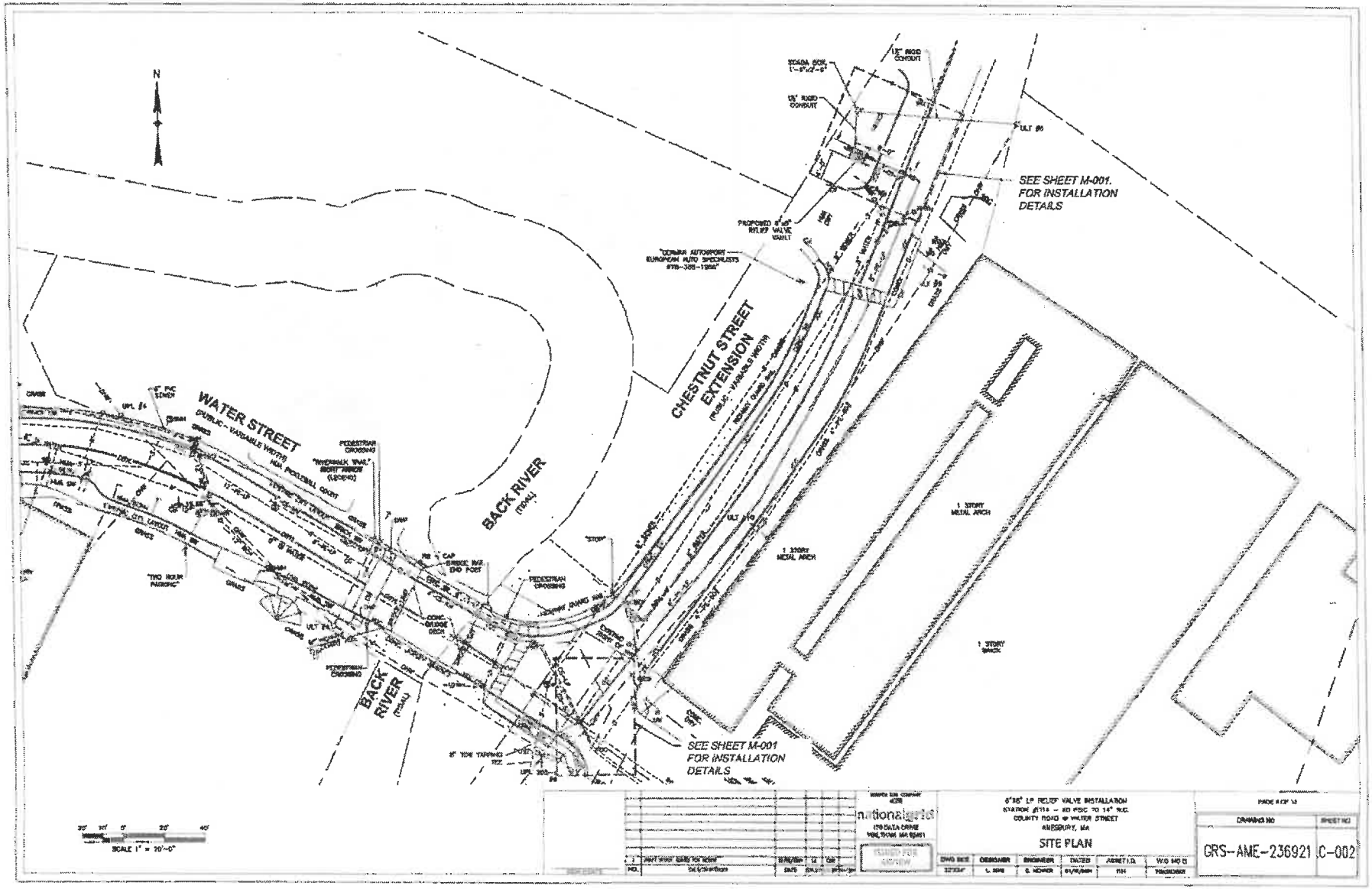
CONSTRUCTION NOTES (CONT'D)

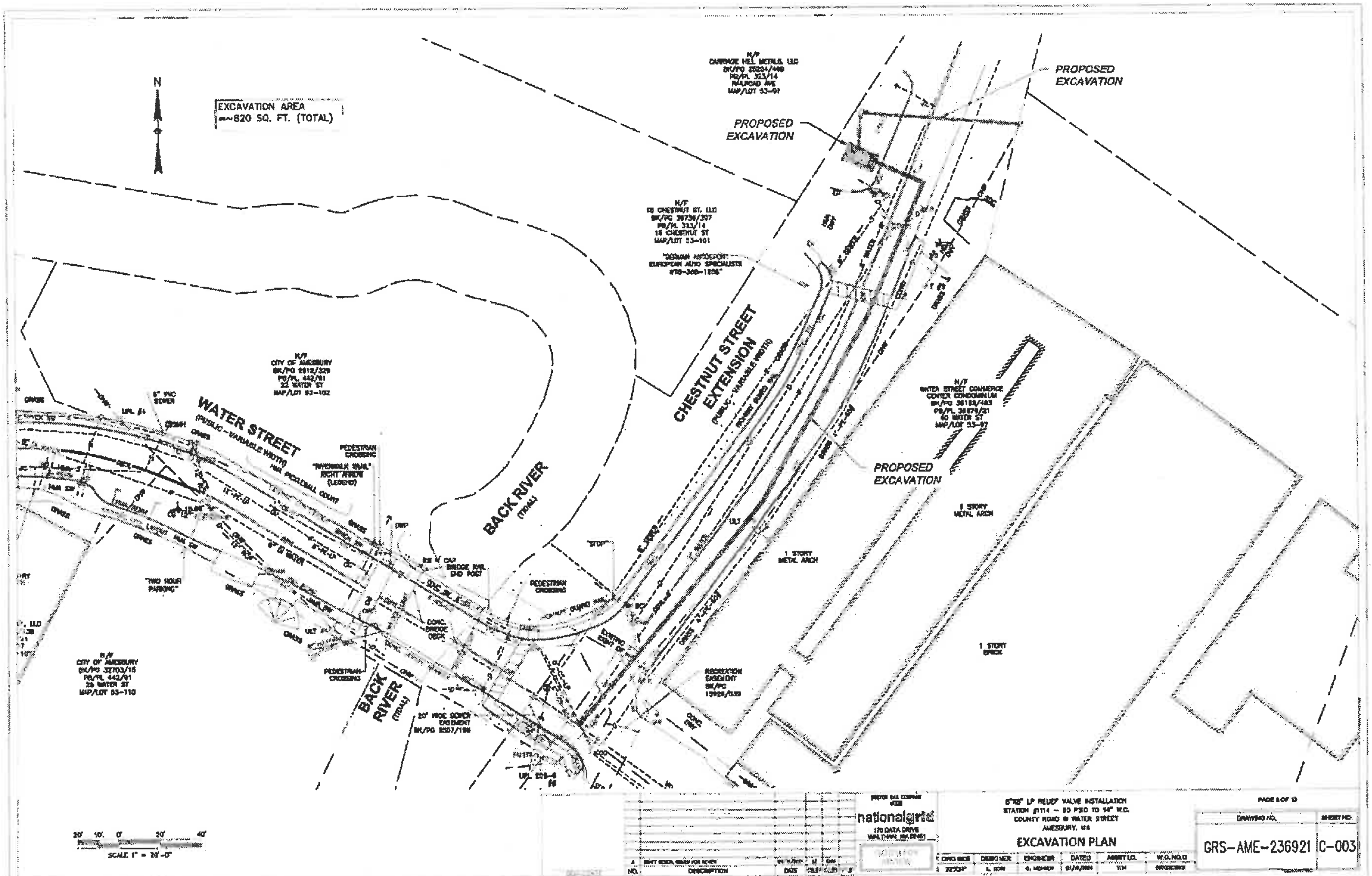
| DRAWING BASE | DESIGNER | ENGINEER | DATED | ASSET NO. | W.O. NO.(1) |
|---|---|---|---|---|---|
| 2D/3D | L. KING | G. MCINTYRE | 10/30/2023 | N/A | 20000004 |

PAGES 3 OF 13

| DRAWING NO. | SHEET NO. |
|---|---|
| GRS-AME-236921 | G-003 |


N
N/F
CARRIAGE HILL METALS, LLC
N/F
18 CHESTNUT ST. LLC
"GERMAN AUTOSPORT EUROPEAN AUTO SPECIALISTS"
CHESTNUT STREET EXTENSION
(PUBLIC - VARIABLE WIDTH)
N/F
CITY OF AMESBURY
22 WATER ST
BACK RIVER
(TIDAL)
WATER STREET
(PUBLIC - VARIABLE WIDTH)
PEDESTRIAN CROSSING
"RIVERWALK TRAIL" RIGHT ARROW (LOGOS)
"STOP"
"TWO HOUR PARKING"
BRIDGE RAIL END POST
CONC. BRIDGE DECK
N/F
CITY OF AMESBURY
26 WATER ST
20' WIDE SEWER EASEMENT
N/F
WATER STREET COMMERCE CENTER CONDOMINIUM
40 WATER ST
1 STORY METAL ARCH
1 STORY METAL ARCH
1 STORY BRICK
PEDESTRIAN EASEMENT
SCALE 1" = 20'-0"
nationalgrid
6"X6" LP RELIEF VALVE INSTALLATION
COUNTY ROAD @ WATER STREET
AMESBURY, MA
EXISTING CONDITIONS
DESCRIPTION
DATE
DRAWING NO
SHEET NO.
GRS-AME-236921
C-001


N
WATER STREET
PUBLIC - VARIABLE WIDTH
CHESTNUT STREET EXTENSION
(PUBLIC - VARIABLE WIDTH)
BACK RIVER
(TIDAL)
BACK RIVER
(TIDAL)
SEE SHEET M-001. FOR INSTALLATION DETAILS
SEE SHEET M-001 FOR INSTALLATION DETAILS
1 STORY METAL ARCH
1 STORY METAL ARCH
1 STORY BRICK
SCALE 1" = 20'-0"
6"X6" I.P. RELIEF VALVE INSTALLATION
COUNTY ROAD @ WATER STREET
AMESBURY, MA
SITE PLAN
GRS-AME-236921
C-002


N
EXCAVATION AREA
≈820 SQ. FT. (TOTAL)
PROPOSED EXCAVATION
PROPOSED EXCAVATION
PROPOSED EXCAVATION
CHESTNUT STREET EXTENSION
(PUBLIC - VARIABLE WIDTH)
WATER STREET
(PUBLIC - VARIABLE WIDTH)
BACK RIVER
(TIDAL)
BACK RIVER
(TIDAL)
PEDESTRIAN CROSSING
PEDESTRIAN CROSSING
PEDESTRIAN CROSSING
"TWO HOUR PARKING"
"STOP"
1 STORY METAL ARCH
1 STORY METAL ARCH
1 STORY BRICK
SCALE 1" = 20'-0"
nationalgrid
170 DATA DRIVE
EXCAVATION PLAN
COUNTY ROAD @ WATER STREET
DRAWING NO.
GRS-AME-236921
C-003