



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Name Vicki Halmen E-Mail Address vhalmen@ipswichutilities.org
 Mailing Address 272 High Street
Ipswich MA 01938
 City/Town State Zip Code
978-356-6635
 Phone Number Fax Number (if applicable)

2. Representative (if any):

Firm New England Civil Engineering
 Contact Name William Ross E-Mail Address wmr@engineeringcorporation.com
 Mailing Address 265 Essex Street, Suite 102
Salem MA 01970
 City/Town State Zip Code
978-741-7401
 Phone Number Fax Number (if applicable)

B. Determinations

1. I request the Ipswich Conservation Commission make the following determination(s). Check any that apply:

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Town of Ipswich
Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



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C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

| | |
|----------------------------|---------------------|
| Route 1A/133 (High Street) | Ipswich |
| Street Address | City/Town |
| | MDOT Roadway Layout |
| Assessors Map/Plat Number | Parcel/Lot Number |

- b. Area Description (use additional paper, if necessary):

Route 1A/133 (High Street) paved shoulder and travel lanes from approximate MDOT Station 12+50 (272 High Street) to 43+74 (Kimball Avenue Intersection/115 High Street).

Replacement water main will cross over concrete culverts conveying stream flow in three locations: Egypt River (Station 46+25) Muddy Run (Station 84+77) and Reedy Brook (Station 99+50)

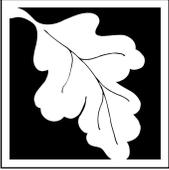
- c. Plan and/or Map Reference(s):

| | |
|---|-----------|
| "High Street Water Main Replacement Project - March 2019" | 3/25/2019 |
| Title | Date |
| "USGS Project Limits Map" | 3/26/2019 |
| Title | Date |
| "Water Resource Areas Map" | 3/26/2019 |
| Title | Date |

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

Work to include replacement/installation of existing underground water utilities primarily within the paved roadway from #272 High Street to Kimball Avenue/#115 High Street. The project includes work within the buffer zone of resource areas and within the 25 foot No Disturb Zone in two locations (Station 84+50 and 96+50), but this work will take place within the paved roadway.

Erosion and sedimentation barriers will be installed prior to construction within the buffer zones of resource areas and riverfront. Erosion and sedimentation controls to include silt sacks in all catch basins and staked straw wattles between proposed construction and the resource areas within the buffer zone.



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C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

310 CMR 10.02(2)(a)1: Minor activity within the riverfront area meeting the requirement of 310 CMR 10.02(2)(b)1 and 2.

310 CMR 10.02(2)(a)2: Activity to repair or replace existing public water facilities, provided said work utilizes best measures to avoid impacts to wetland resource areas outside the footprint of said facility.

310 CMR 10.02(2)(b)(2)(i): Minor activity within the buffer zone; installation of underground utilities (water) within existing roadways; provided that all work is conducted within the roadway and that all trenches are closed at the completion of each workday.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



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D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Town of Ipswich Utilities Department
 Name
 272 High Street
 Mailing Address
 Ipswich
 City/Town
 MA
 State
 01938
 Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant

4/8/19

Date

Signature of Representative (if any)

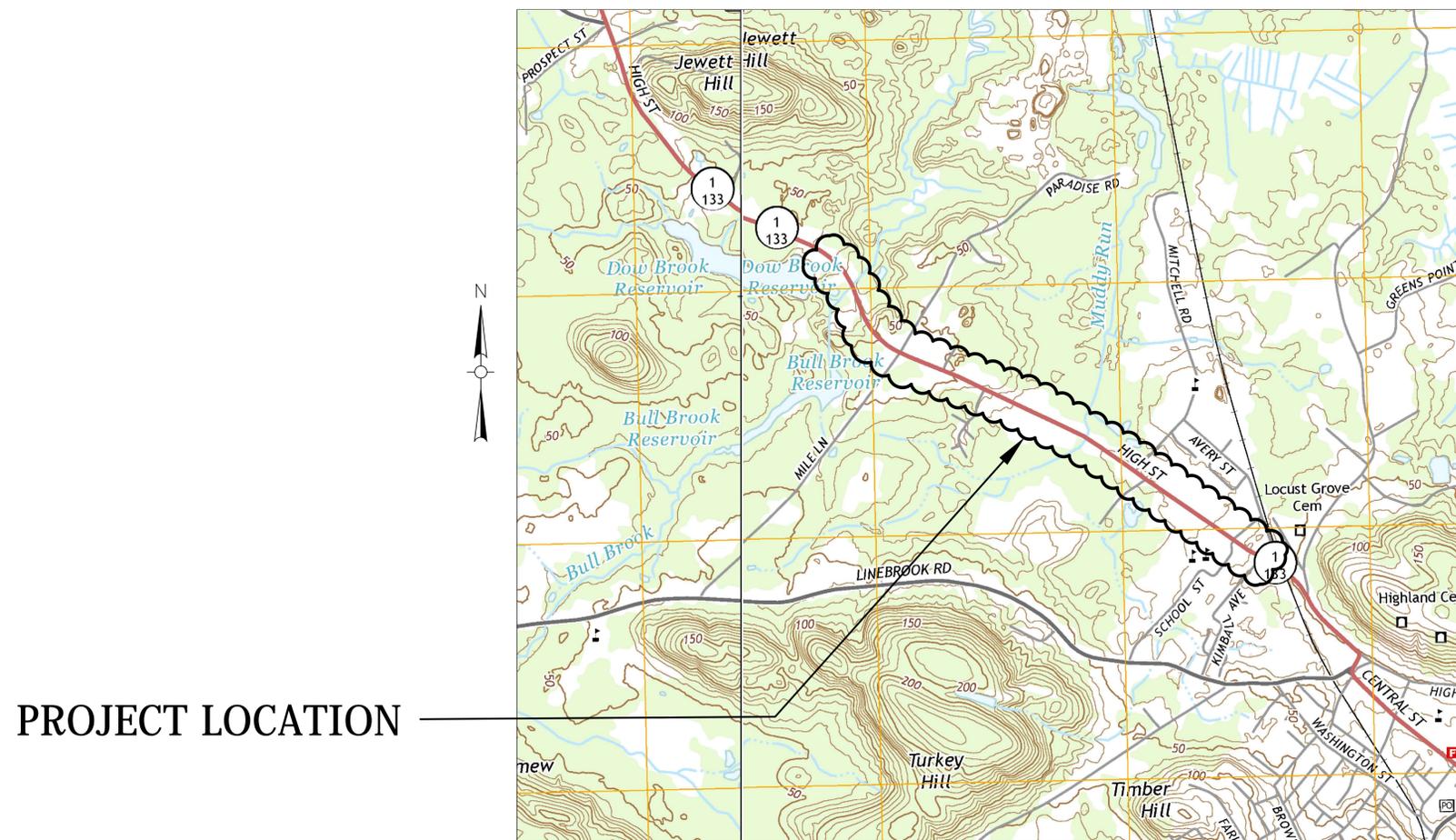
Date

TOWN OF IPSWICH, MASSACHUSETTS

HIGH STREET WATER MAIN REPLACEMENT PROJECT

MARCH 2019

PERMITTING SET



PROJECT LOCATION

LOCUS MAP (NO SCALE)

DRAWING INDEX:

- G-1: COVER
- G-2: GENERAL NOTES (NOT INCLUDED)
- G-3: KEY PLAN AND LEGEND
- C-7 - C-18: UTILITY PLANS
- D-1: DETAILS

NEW ENGLAND CIVIL ENGINEERING CORP.



265 Essex Street
Suite #102
Salem, MA 01970

(978) 741-7401



LEGEND

- FIRE HYDRANT
- WATER MAIN WITH PIPE SIZE, MAIN LINE VALVE, AND WATER SERVICE WITH CURB STOP
- SEWER MANHOLE AND SEWER MAIN WITH PIPE SIZE
- STORMWATER MANHOLE AND STORMWATER MAIN WITH PIPE SIZE
- CATCH BASIN (CB)
- GAS MAIN WITH PIPE SIZE & MATERIAL AND GAS VALVE
- UTILITY PIPE WITH CONTINUATION SYMBOL
- TELEPHONE / COMMUNICATION CONDUIT
- ELECTRIC CONDUIT
- ELECTRIC MANHOLE

EXISTING FEATURES

- ROADWAY SIGN
- UTILITY POLE/OVERHEAD WIRE
- LIGHT POST/POLE
- TREE
- VEGETATION BOUNDARY
- PARCEL / PROPERTY LINE
- FENCE
- BUILDING / HOUSE / STRUCTURE

ELEVATION CONTOUR WITH SPOT GRADE ELEVATION (FEET) SHEETS C-1 TO C-6



ELEVATION CONTOUR WITH ELEVATION LABEL (FEET) FOR SHEETS C-7 AND C-8

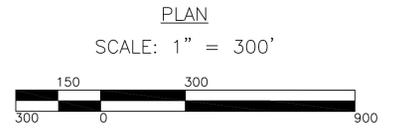


- BIT.
- CONC.
- GRAN.
- PL
- BS
- VC
- AC
- DI
- RET.
- ABD.
- INV.
- DHM
- SMH
- MIN.
- STA

- BITUMINOUS
- CONCRETE
- GRANITE
- PLASTIC
- BARE STEEL
- VITRIFIED CLAY
- ASBESTOS CEMENT
- DUCTILE IRON
- RETAINING
- ABANDONED
- INVERT
- TYPICAL
- DRAIN MANHOLE
- SEWER MANHOLE
- MINIMUM
- STATION

PROPOSED FEATURES

- FIRE HYDRANT
- WATER MAIN, MAIN LINE VALVE, AND WATER SERVICE WITH CURB STOP
- WATER MAIN COUPLING CONNECTING EXISTING MAN TO NEW WATER MAIN
- TEE CONNECTION
- PIPE BEND
- TAPPING SLEEVE AND VALVE ON EXISTING WATER MAIN
- REDUCER
- LINSTOP ON EXISTING WATER MAIN
- EXPLORATORY EXCAVATION (TEST PIT)
- EROSION AND SEDIMENTATION BARRIER
- CAPPED / PLUGGED PIPE



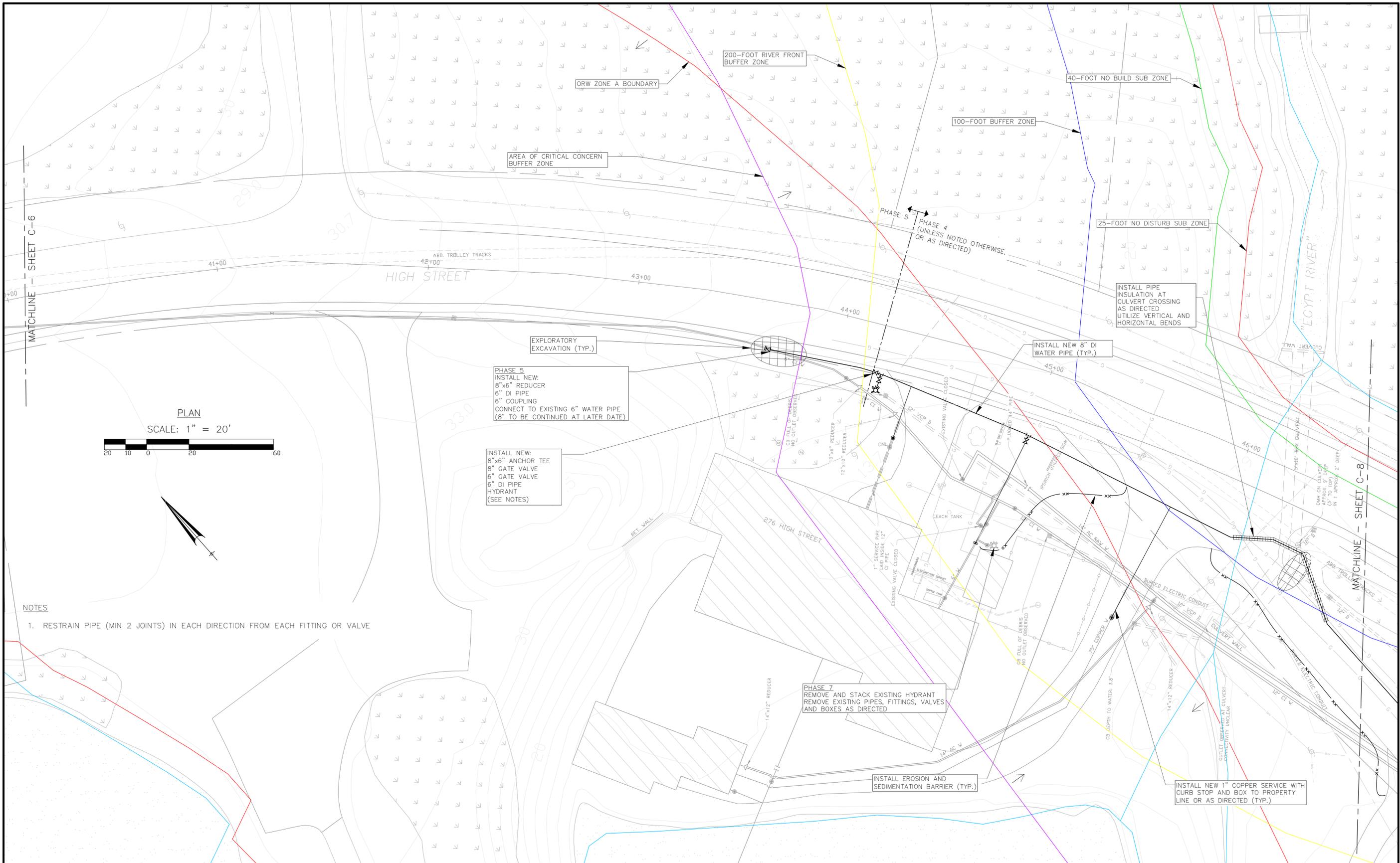
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| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| KEY PLAN AND LEGEND | |

| | |
|---|-------------|
| Scale | 1"=20' |
| Date | 3/22/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |
| No. | |
| Description | |
| Date | |
| File: W:\Ipswich\High Street Water Main\CAD\Ipswich_Design32219.dwg | |



New England Civil Engineering Corp.
265 Essex Street
SALEM, MASSACHUSETTS

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| Sheet | G-3 |
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NOTES
 1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE

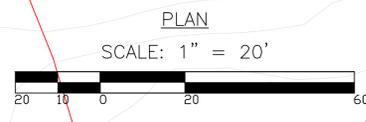
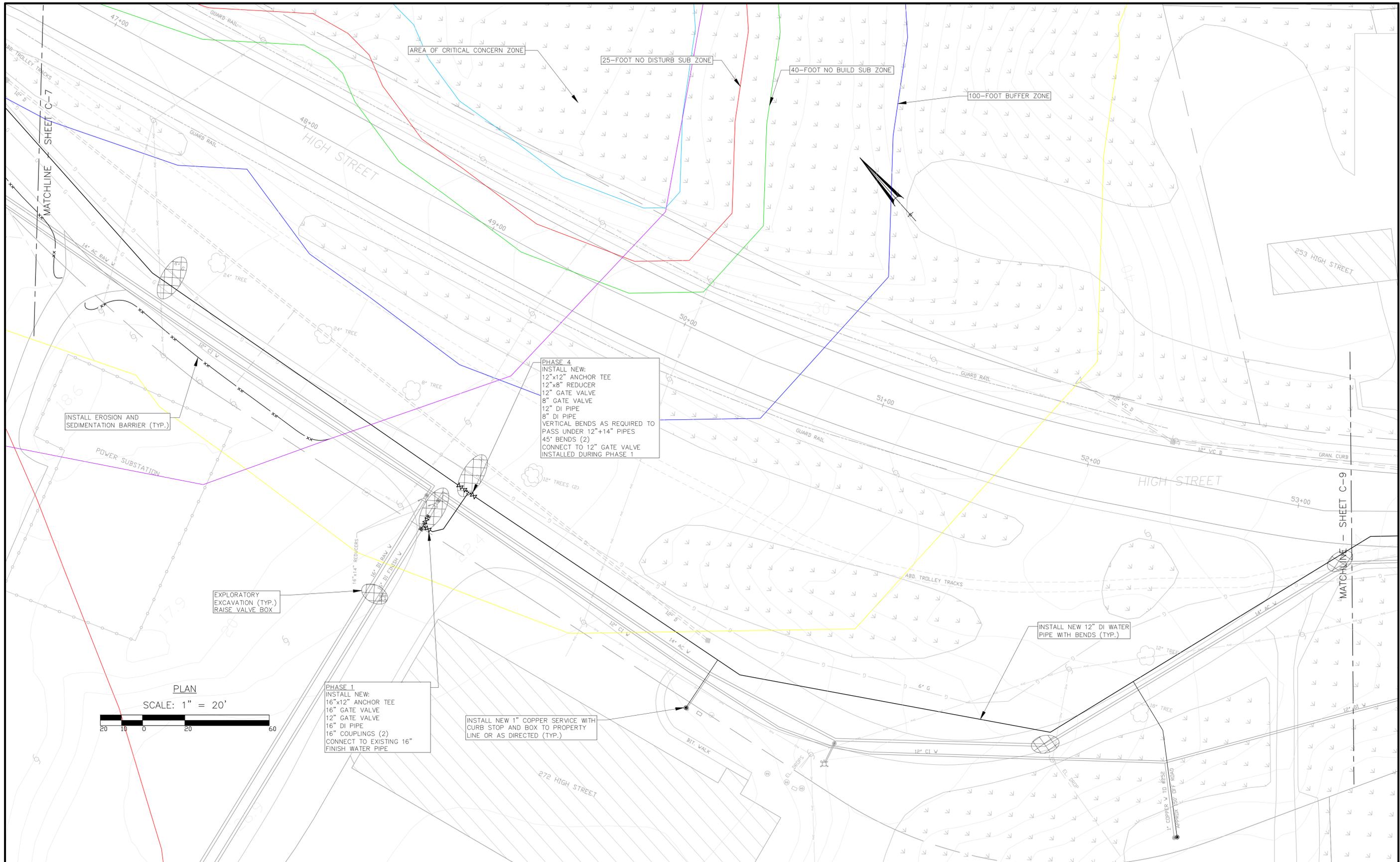
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| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 40+08 TO STATION 46+61 |

| | |
|-------------|-------------|
| Scale | 1"=20' |
| Date | 3/28/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
|-----|-------------|------|
| | | |

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Client
TOWN OF IPSWICH, MASSACHUSETTS

Project
HIGH STREET WATER MAIN REPLACEMENT PROJECT

STATION 46+61 TO STATION 53+25

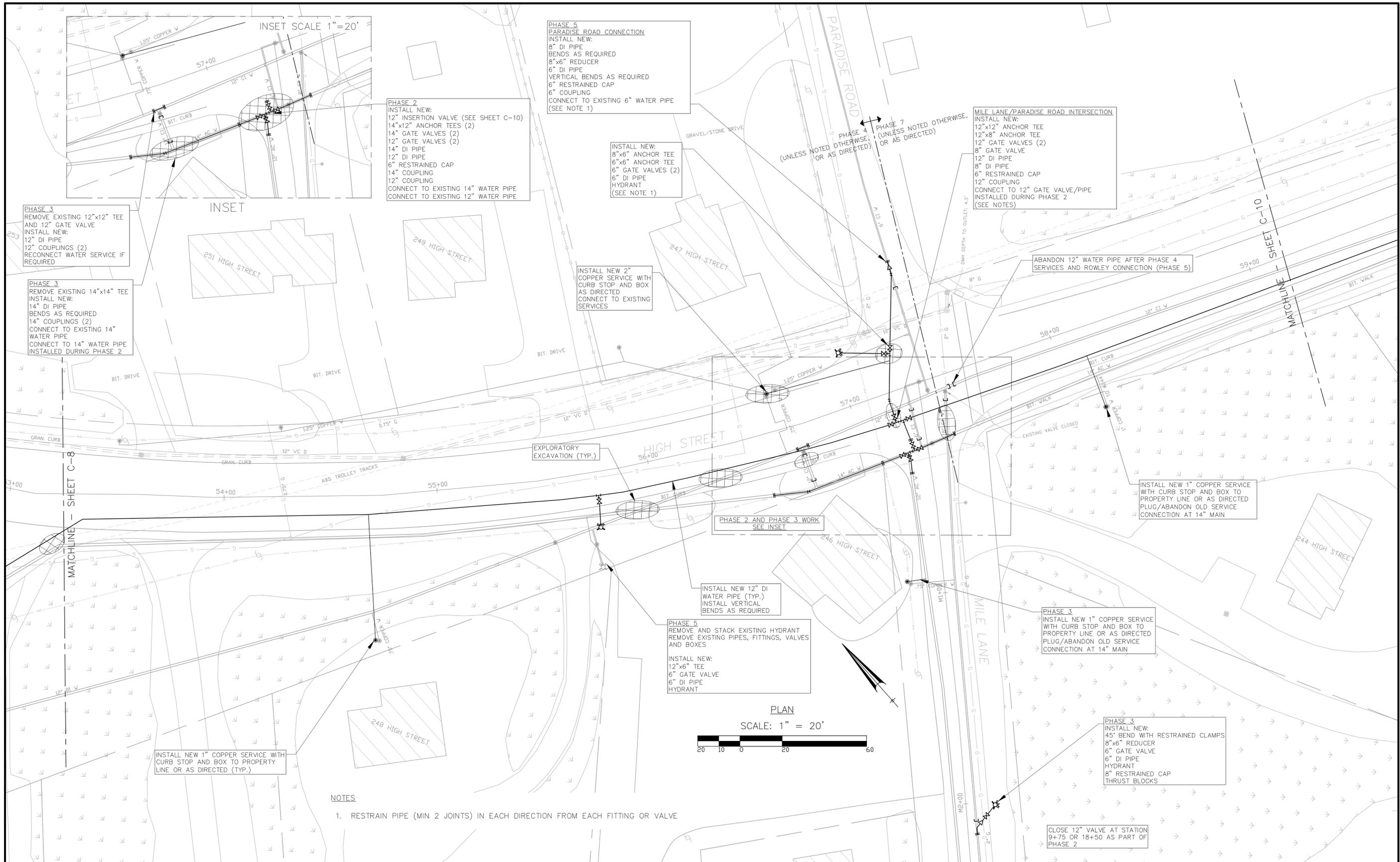
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| Scale | 1"=20' |
| Date | 3/28/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |
| No. | Description |
| Date | Date |
| File: W:\Ipswich\High Street Water Main\CAD\Ipswich_DesignConCom_recover.dwg | |



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SALEM, MASSACHUSETTS

Sheet
C-8



NOTES
 1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE

| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 53+25 TO STATION 59+17 |

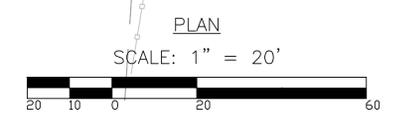
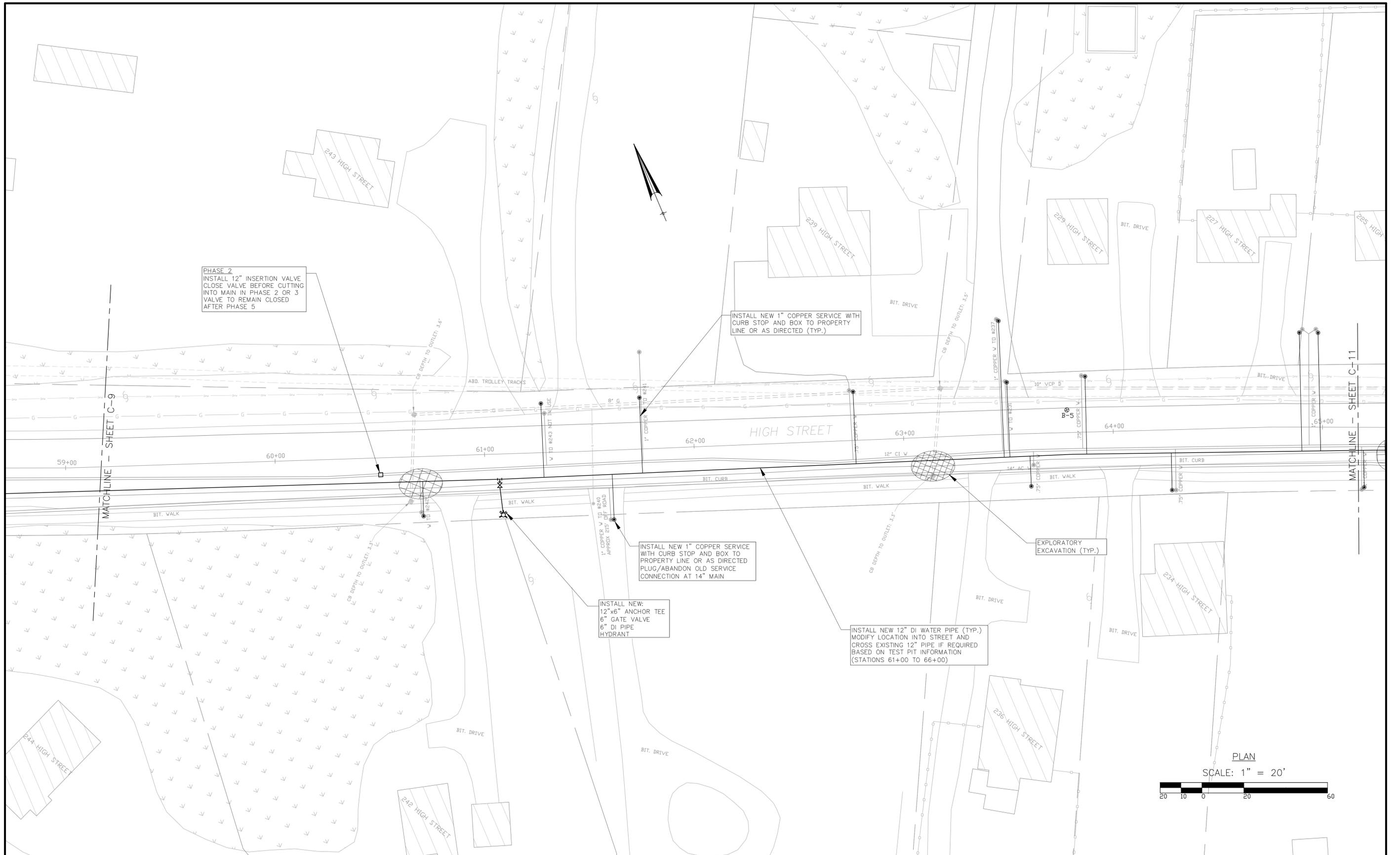
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|-------------|-------------|
| Scale | 1"=20' |
| Date | 3/27/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
|-----|-------------|------|
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Sheet
C-9



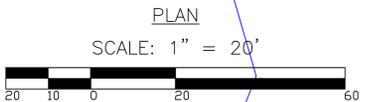
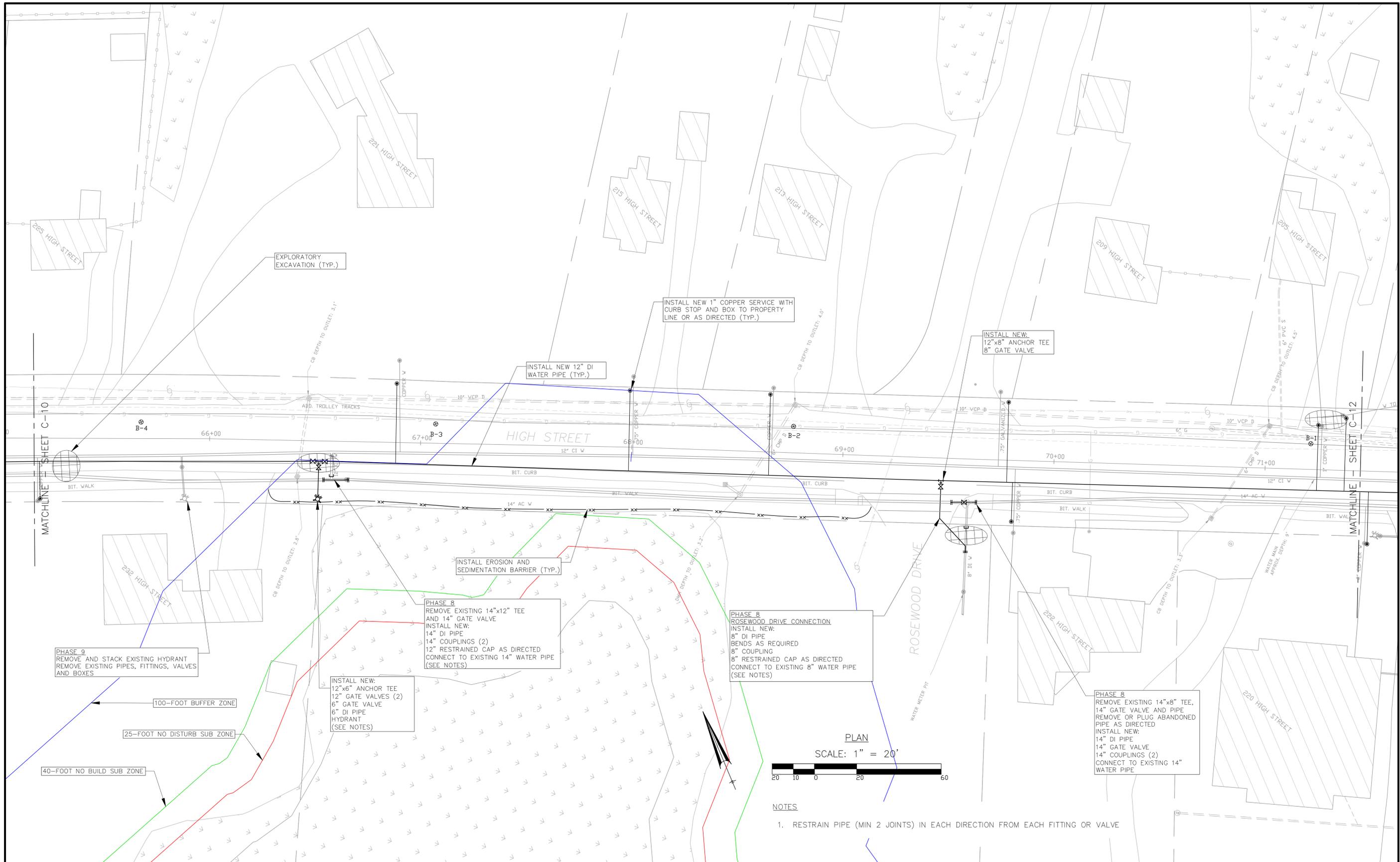
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| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 59+17 TO STATION 65+17 |

| | |
|--|-------------|
| Scale | 1" = 20' |
| Date | 3/27/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |
| No. | |
| Description | |
| Date | |
| File: W:\Ipswich\High Street Water Main\CAD\Ipswich_DesignConCom_recover.dwg | |



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Sheet
C-10

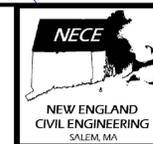


- NOTES
1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE

| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 65+17 TO STATION 71+45 |

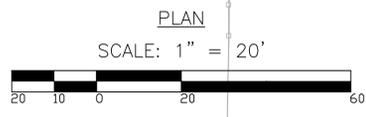
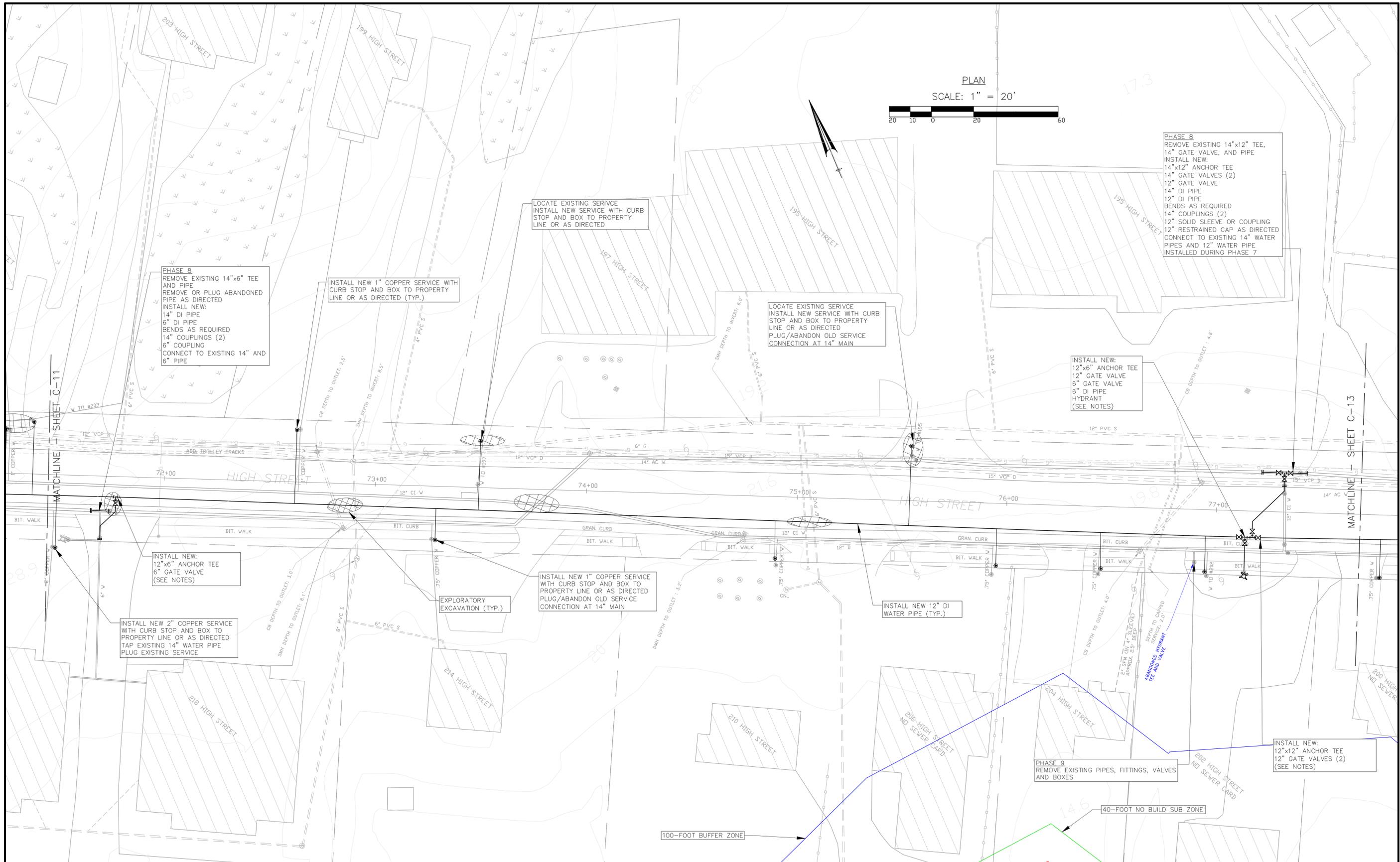
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| Scale | 1"=20' |
| Date | 3/27/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
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| | | |



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Sheet
C-11



PHASE 8
REMOVE EXISTING 14"x6" TEE AND PIPE
REMOVE OR PLUG ABANDONED PIPE AS DIRECTED
INSTALL NEW:
14" DI PIPE
6" DI PIPE
BENDS AS REQUIRED
14" COUPLINGS (2)
6" COUPLING
CONNECT TO EXISTING 14" AND 6" PIPE

INSTALL NEW 1" COPPER SERVICE WITH CURB STOP AND BOX TO PROPERTY LINE OR AS DIRECTED (TYP.)

LOCATE EXISTING SERVICE
INSTALL NEW SERVICE WITH CURB STOP AND BOX TO PROPERTY LINE OR AS DIRECTED

LOCATE EXISTING SERVICE
INSTALL NEW SERVICE WITH CURB STOP AND BOX TO PROPERTY LINE OR AS DIRECTED
PLUG/ABANDON OLD SERVICE CONNECTION AT 14" MAIN

PHASE 8
REMOVE EXISTING 14"x12" TEE, 14" GATE VALVE, AND PIPE
INSTALL NEW:
14"x12" ANCHOR TEE
14" GATE VALVES (2)
12" GATE VALVE
14" DI PIPE
12" DI PIPE
BENDS AS REQUIRED
14" COUPLINGS (2)
12" SOLID SLEEVE OR COUPLING
12" RESTRAINED CAP AS DIRECTED
CONNECT TO EXISTING 14" WATER PIPES AND 12" WATER PIPE
INSTALLED DURING PHASE 7

INSTALL NEW:
12"x6" ANCHOR TEE
12" GATE VALVE
6" DI PIPE
HYDRANT
(SEE NOTES)

INSTALL NEW:
12"x6" ANCHOR TEE
6" GATE VALVE
(SEE NOTES)

INSTALL NEW 2" COPPER SERVICE WITH CURB STOP AND BOX TO PROPERTY LINE OR AS DIRECTED
TAP EXISTING 14" WATER PIPE
PLUG EXISTING SERVICE

INSTALL NEW 1" COPPER SERVICE WITH CURB STOP AND BOX TO PROPERTY LINE OR AS DIRECTED
PLUG/ABANDON OLD SERVICE CONNECTION AT 14" MAIN

INSTALL NEW 12" DI WATER PIPE (TYP.)

PHASE 9
REMOVE EXISTING PIPES, FITTINGS, VALVES AND BOXES

INSTALL NEW:
12"x12" ANCHOR TEE
12" GATE VALVES (2)
(SEE NOTES)

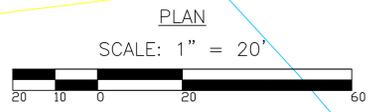
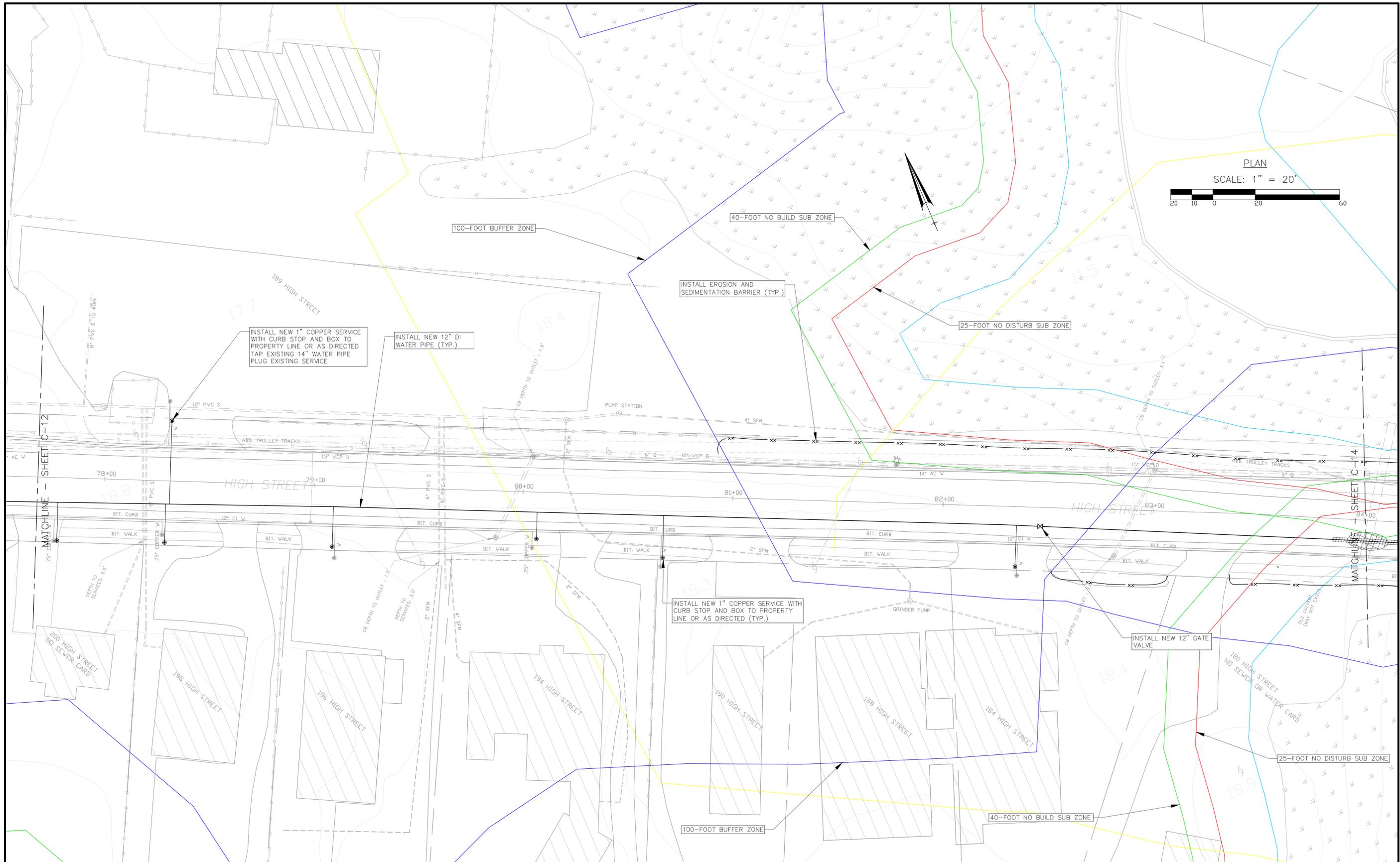
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| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT STATION 71+45 TO STATION 77+68 |

| | |
|---|-------------|
| Scale | 1"=20' |
| Date | 3/28/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |
| No. | |
| Description | |
| Date | |
| File: W:\Ipswich\High Street Water Main\CAD\Ipswich_Design\ConCom\recover.dwg | |



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265 Essex Street, Suite 102
SALEM, MASSACHUSETTS

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| Sheet | C-12 |
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| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 77+68 TO STATION 84+02 |

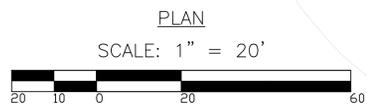
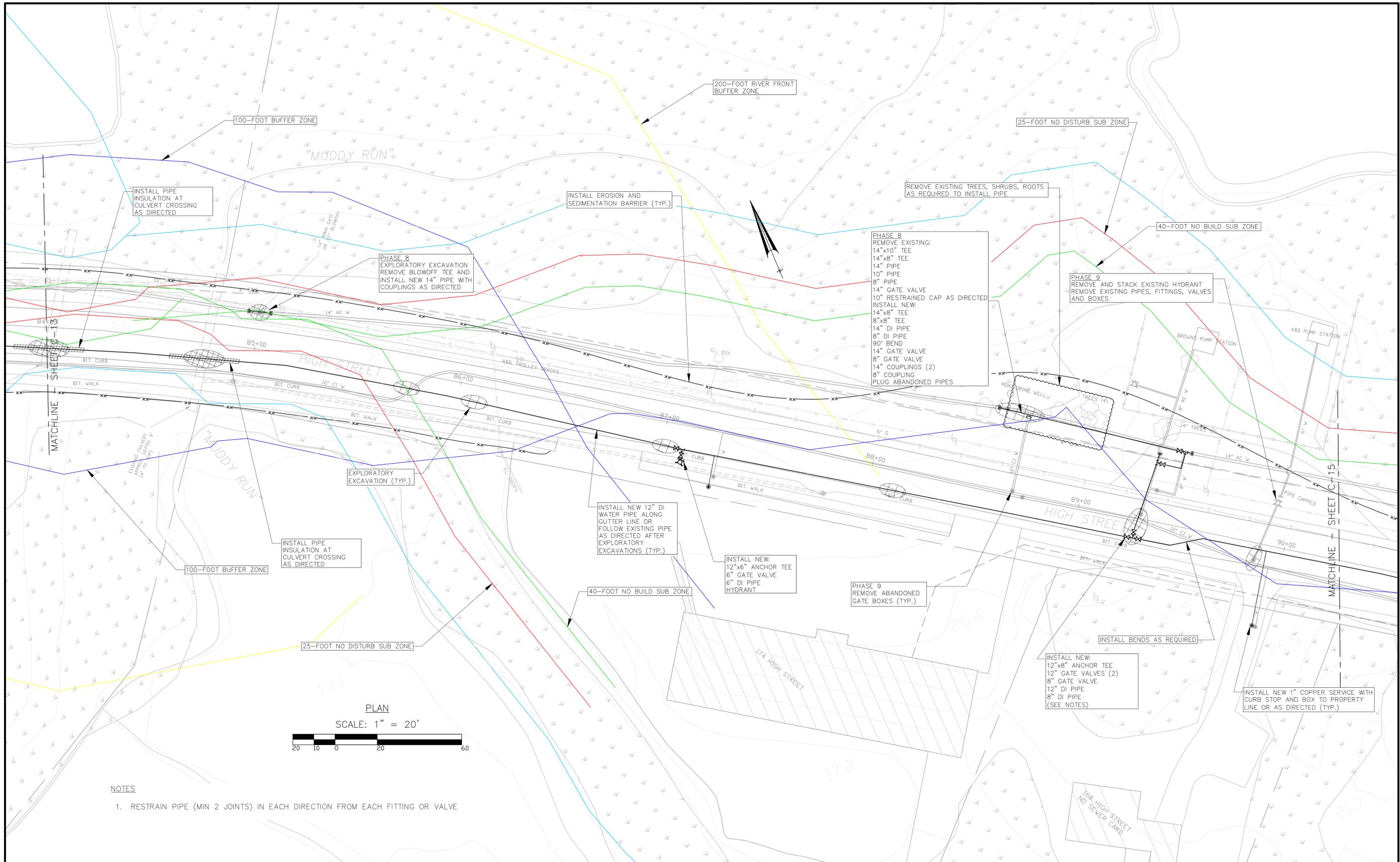
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| Scale | 1"=20' |
| Date | 3/28/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
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| | | |
| | | |



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265 Essex Street, Suite 102
SALEM, MASSACHUSETTS

Sheet
C-13



- NOTES
1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE

| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 84+02 TO STATION 90+26 |

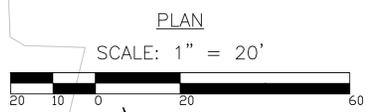
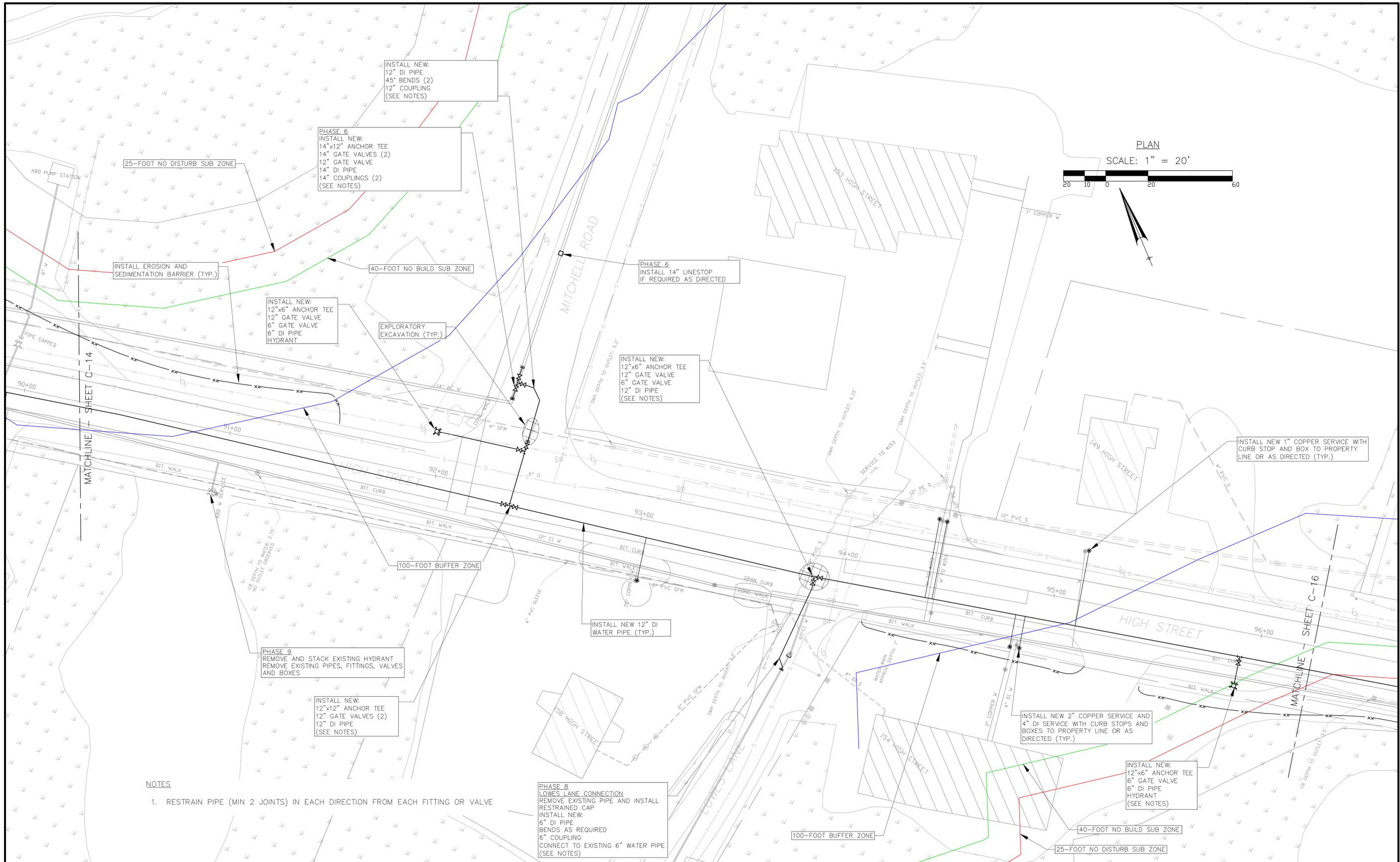
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| Scale | 1"=20' |
| Date | 3/28/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
|-----|-------------|------|
| | | |



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265 Essex Street, Suite 102
SALEM, MASSACHUSETTS

Sheet
C-14



NOTES

1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE

INSTALL NEW:
12" DI PIPE
45' BENDS (2)
12" COUPLING
(SEE NOTES)

PHASE 6
INSTALL NEW:
14"x12" ANCHOR TEE
14" GATE VALVES (2)
12" GATE VALVE
14" DI PIPE
14" COUPLINGS (2)
(SEE NOTES)

INSTALL EROSION AND
SEDIMENTATION BARRIER (TYP.)

INSTALL NEW:
12"x6" ANCHOR TEE
12" GATE VALVE
6" GATE VALVE
6" DI PIPE
HYDRANT

EXPLORATORY
EXCAVATION (TYP.)

PHASE 6
INSTALL 14" LINESSTOP
IF REQUIRED AS DIRECTED

INSTALL NEW:
12"x6" ANCHOR TEE
12" GATE VALVE
6" GATE VALVE
12" DI PIPE
(SEE NOTES)

INSTALL NEW 1" COPPER SERVICE WITH
CURB STOP AND BOX TO PROPERTY
LINE OR AS DIRECTED (TYP.)

INSTALL NEW 12" DI
WATER PIPE (TYP.)

PHASE 9
REMOVE AND STACK EXISTING HYDRANT
REMOVE EXISTING PIPES, FITTINGS, VALVES
AND BOXES

INSTALL NEW:
12"x12" ANCHOR TEE
12" GATE VALVES (2)
12" DI PIPE
(SEE NOTES)

INSTALL NEW 2" COPPER SERVICE AND
4" DI SERVICE WITH CURB STOPS AND
BOXES TO PROPERTY LINE OR AS
DIRECTED (TYP.)

INSTALL NEW:
12"x6" ANCHOR TEE
6" GATE VALVE
6" DI PIPE
HYDRANT
(SEE NOTES)

PHASE 8
LOWES LANE CONNECTION
REMOVE EXISTING PIPE AND INSTALL
RESTRAINED CAP
INSTALL NEW:
6" DI PIPE
BENDS AS REQUIRED
6" COUPLING
CONNECT TO EXISTING 6" WATER PIPE
(SEE NOTES)

| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 90+26 TO STATION 96+25 |

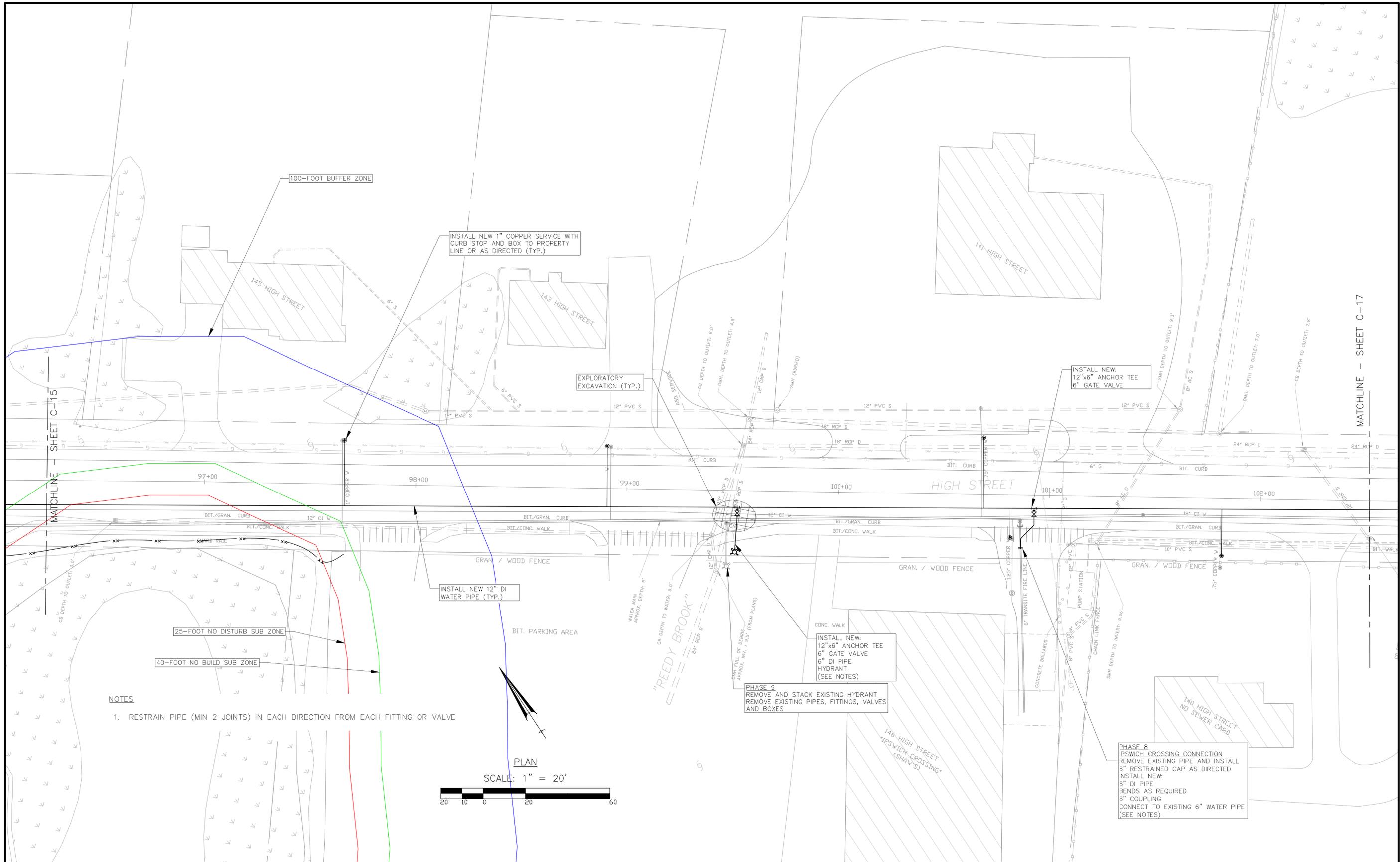
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| Scale | 1"=20' |
| Date | 3/27/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
|-----|-------------|------|
| | | |



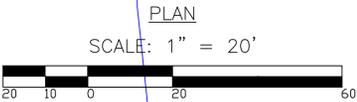
New England Civil Engineering Corp.
265 Essex Street, Suite 102
SALEM, MASSACHUSETTS

Sheet
C-15



NOTES

1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE



| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 96+25 TO STATION 102+51 |

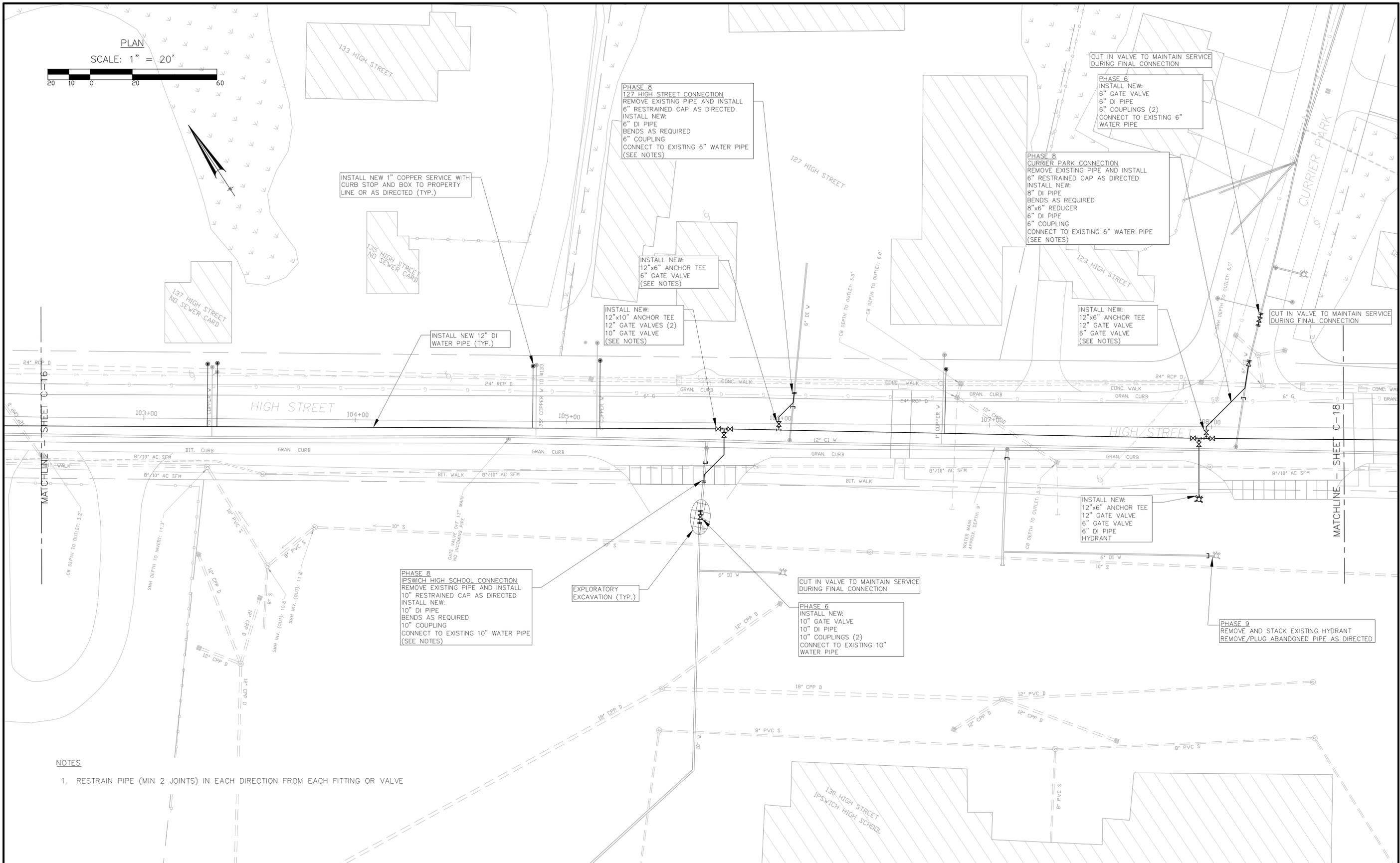
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|-------------|-------------|
| Scale | 1"=20' |
| Date | 3/27/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
|-----|-------------|------|
| | | |



New England Civil Engineering Corp.
265 Essex Street, Suite 102
SALEM, MASSACHUSETTS

Sheet
C-16



NOTES
 1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE

| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 102+51 TO STATION 108+61 |

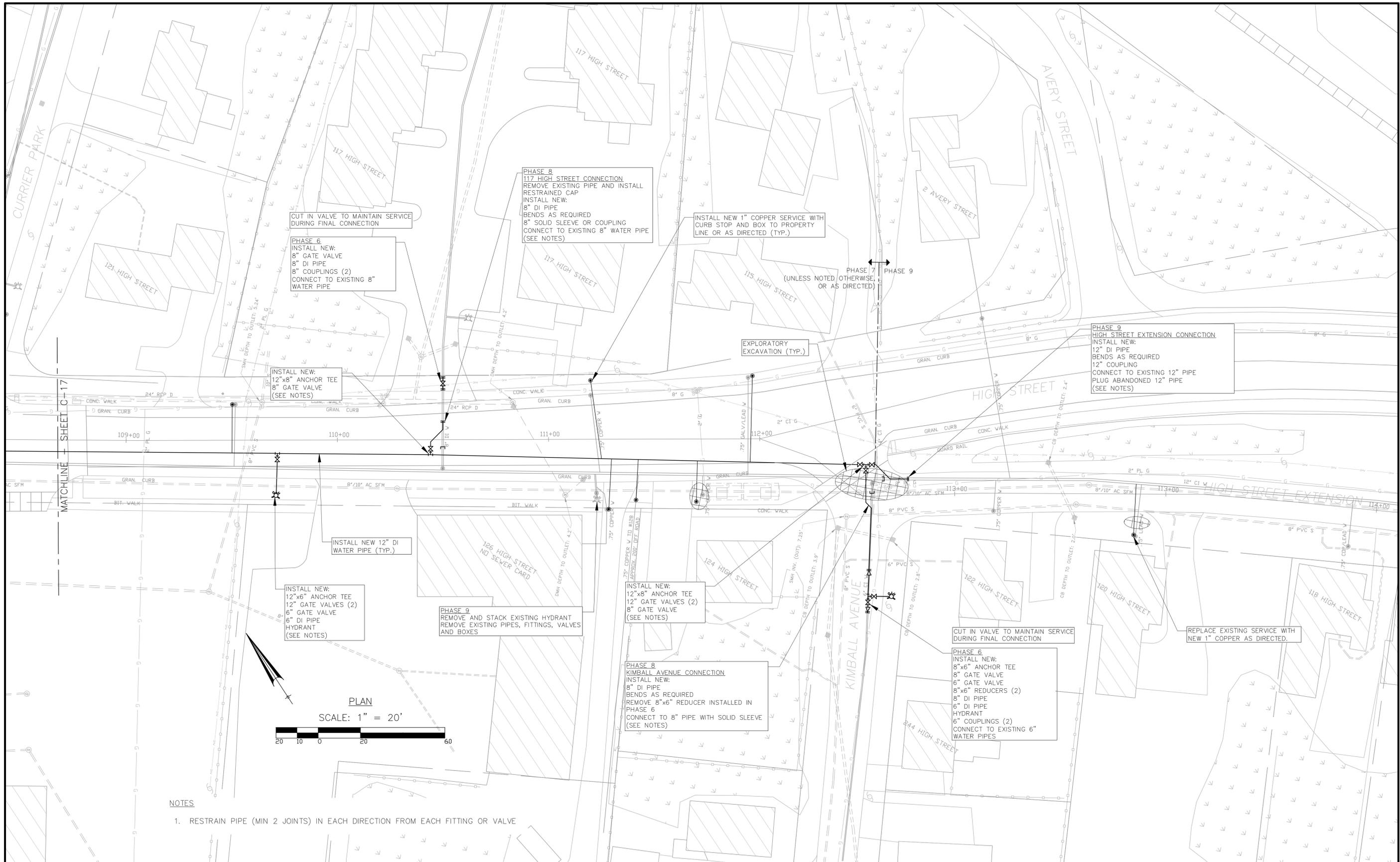
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| Scale | 1"=20' |
| Date | 3/27/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |

| No. | Description | Date |
|-----|-------------|------|
| | | |



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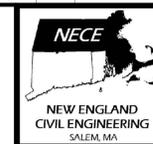


NOTES

- 1. RESTRAIN PIPE (MIN 2 JOINTS) IN EACH DIRECTION FROM EACH FITTING OR VALVE

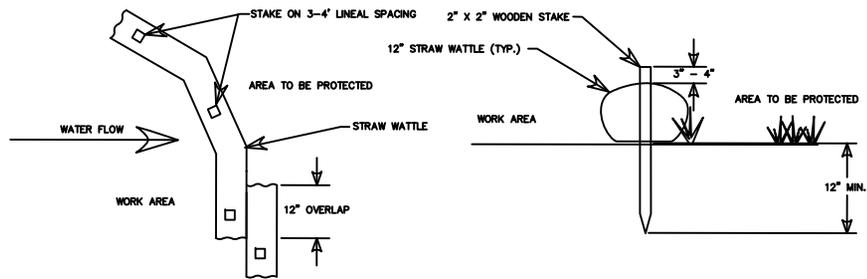
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|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | STATION 108+61 TO STATION 114+00 |

| | |
|-------------|--|
| Scale | 1"=20' |
| Date | 3/27/2019 |
| Job | IP-HIGH ST. |
| Designed by | WMR |
| Drawn by | DJW |
| Checked by | WMR |
| Approved by | WMR |
| No. | |
| Description | |
| Date | |
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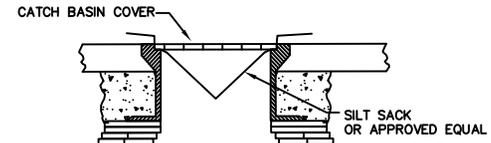
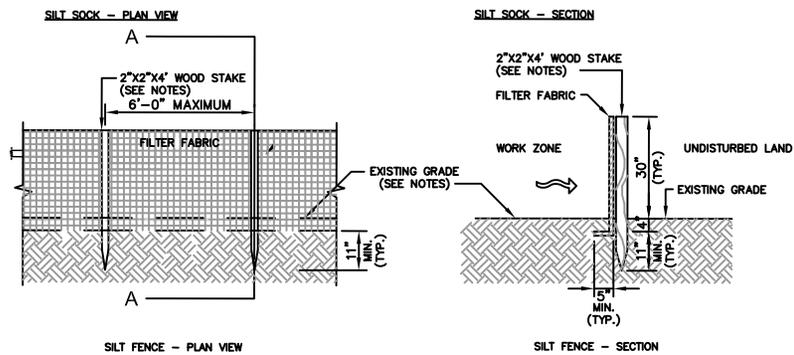
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Sheet
C-18



NOTES:

1. CONTRACTOR TO INSTALL 12-INCH STRAW WATTLES OR SILT FENCE AS DIRECTED AND APPROVED BY LOCAL CONSERVATION COMMISSION
2. FABRIC FOR FENCES TO BE UV RESISTANT POLYPROPYLENE WITH A MINIMUM WEIGHT OF 2.5 OZ./S.Y. TUBULAR BLACK POLYPROPYLENE FOR STRAW WATTLES SHALL BE PHOTO DEGRADABLE.
3. FABRIC TO BE ATTACHED TO STAKES WITH STAPLES.
4. STRAW MATERIAL TO BE HAULED OFFSITE AND DISPOSED AS DETERMINED BY THE ENGINEER.
5. CONTRACTOR TO INSTALL GEOTEXTILE (SILT SACK) IN ALL CATCH BASINS PRIOR TO EXCAVATION.
6. ALL CONSTRUCTION DEWATERING MUST BE TREATED WITH A FILTRATION DEVICE (DIRTBAG) AND/OR SEDIMENTATION TANK OR APPROVED TREATMENT DEVICE PRIOR TO DISCHARGE UPGRADIENT OF OTHER EROSION AND SEDIMENTATION DEVICES AND CONTROLS.



INSTALL SEDIMENTATION PROTECTION IN EACH CATCH BASIN ALONG THE WATERMAIN ROUTE. UPON PAVING OF TRENCH, REMOVE SILT AND DEBRIS THEN REMOVE FILTER FABRIC.

CATCH BASIN SEDIMENTATION BARRIER

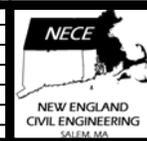
NOT TO SCALE

EROSION & SEDIMENTATION BARRIER

NOT TO SCALE

| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| DETAILS | |

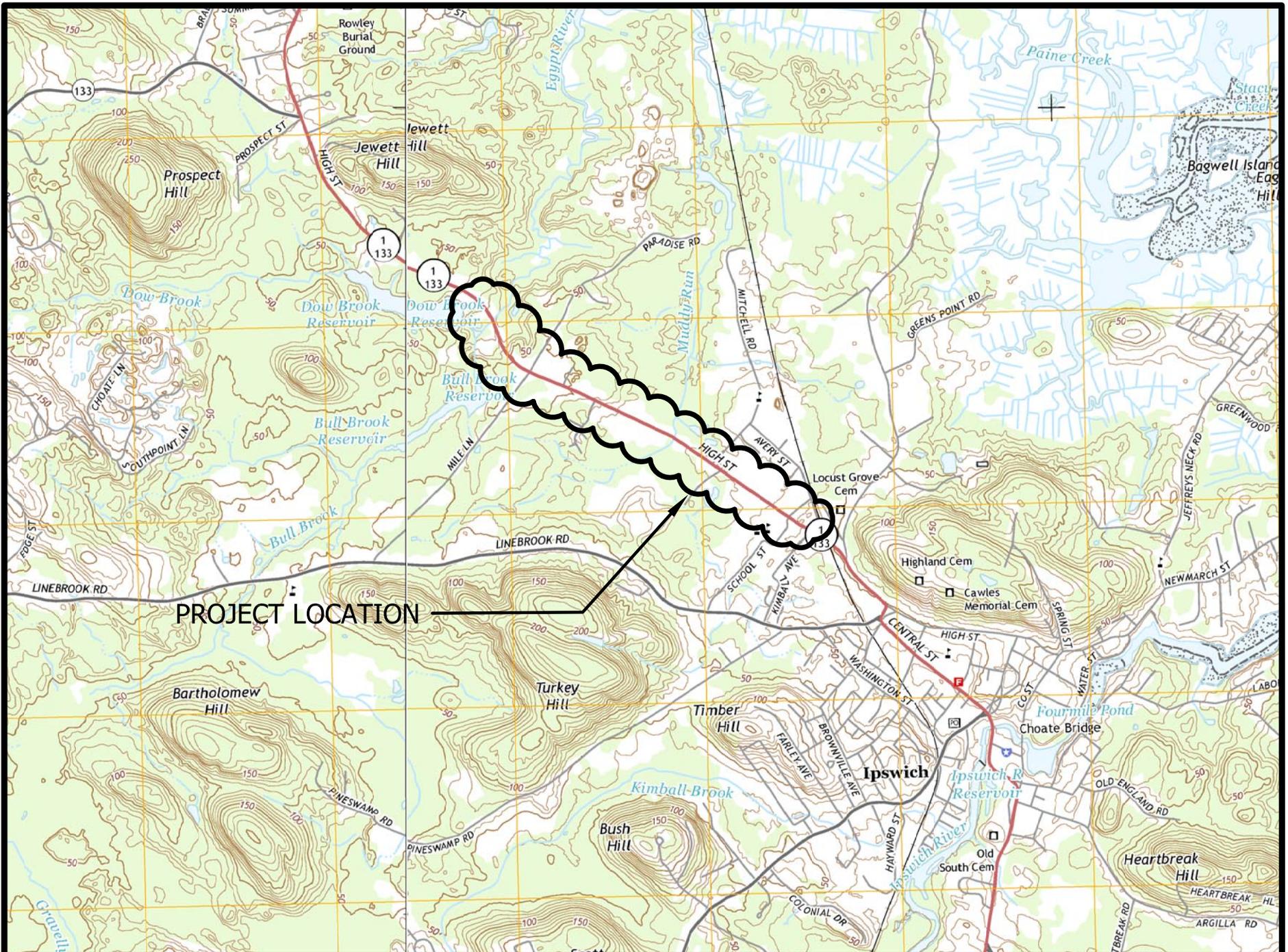
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| Scale | N.T.S. | |
| Date | 3/28/2019 | |
| Job | High Street | |
| Designed by | WMR | |
| Drawn by | DJW | |
| Checked by | WMR | |
| Approved by | WMR | |
| REVISIONS | | |
| No. | Description | Date |
| | | |



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| Sheet | D-1 |
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PROJECT LOCATION

| | |
|---------|--|
| Client | TOWN OF IPSWICH, MASSACHUSETTS |
| Project | HIGH STREET WATER MAIN REPLACEMENT PROJECT |
| | USGS PROJECT LIMITS MAP |

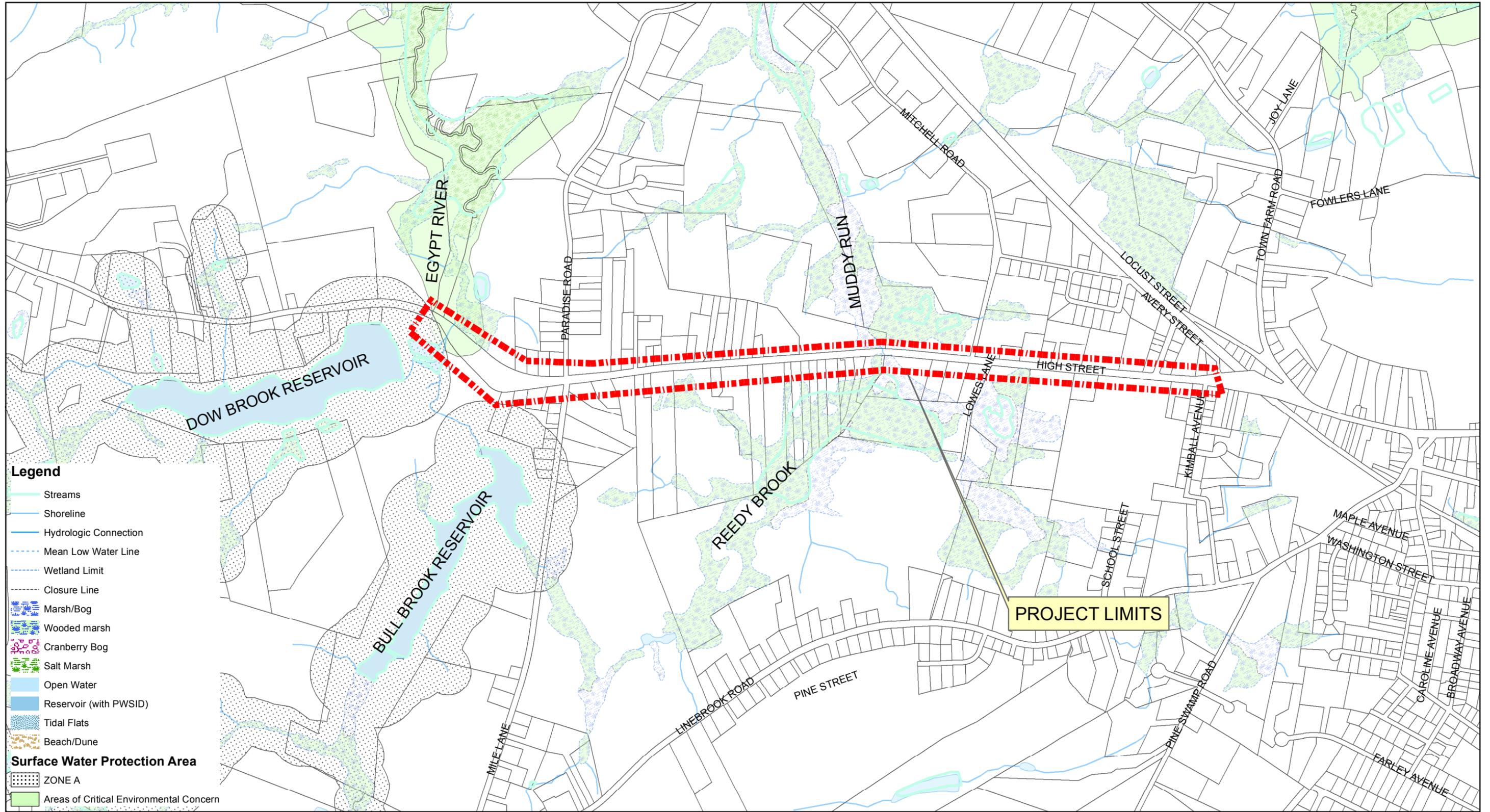
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| Scale | N.T.S. | |
| Date | 3/27/2019 | |
| Job | Name | |
| Designed by | WMR | |
| Drawn by | DJW | |
| Checked by | WMR | |
| Approved by | WMR | |
| No. | Description | Date |
| REVISIONS | | |



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265 Essex Street
SALEM, MASSACHUSETTS

Sheet
G-1A



- Legend**
- Streams
 - Shoreline
 - Hydrologic Connection
 - Mean Low Water Line
 - Wetland Limit
 - Closure Line
 - Marsh/Bog
 - Wooded marsh
 - Cranberry Bog
 - Salt Marsh
 - Open Water
 - Reservoir (with PWSID)
 - Tidal Flats
 - Beach/Dune
- Surface Water Protection Area**
- ZONE A
 - Areas of Critical Environmental Concern

**Town of Ipswich, Massachusetts
High Street
Water Resource Areas Map**

0 200 400 800 Feet

 1 inch = 800 feet

