

# BOSTON WATER AND SEWER COMMISSION

## WATER, SEWERAGE AND DRAINAGE WORKS IMPROVEMENTS

2019 CAPITAL IMPROVEMENT PROGRAM

CONTRACT NO. 17-308-001

FOR

REPLACEMENT OF WATER MAINS AND REPLACEMENT AND REHABILITATION

OF SEWER AND DRAIN PIPES

IN

EAST BOSTON

**EXECUTIVE DIRECTOR**

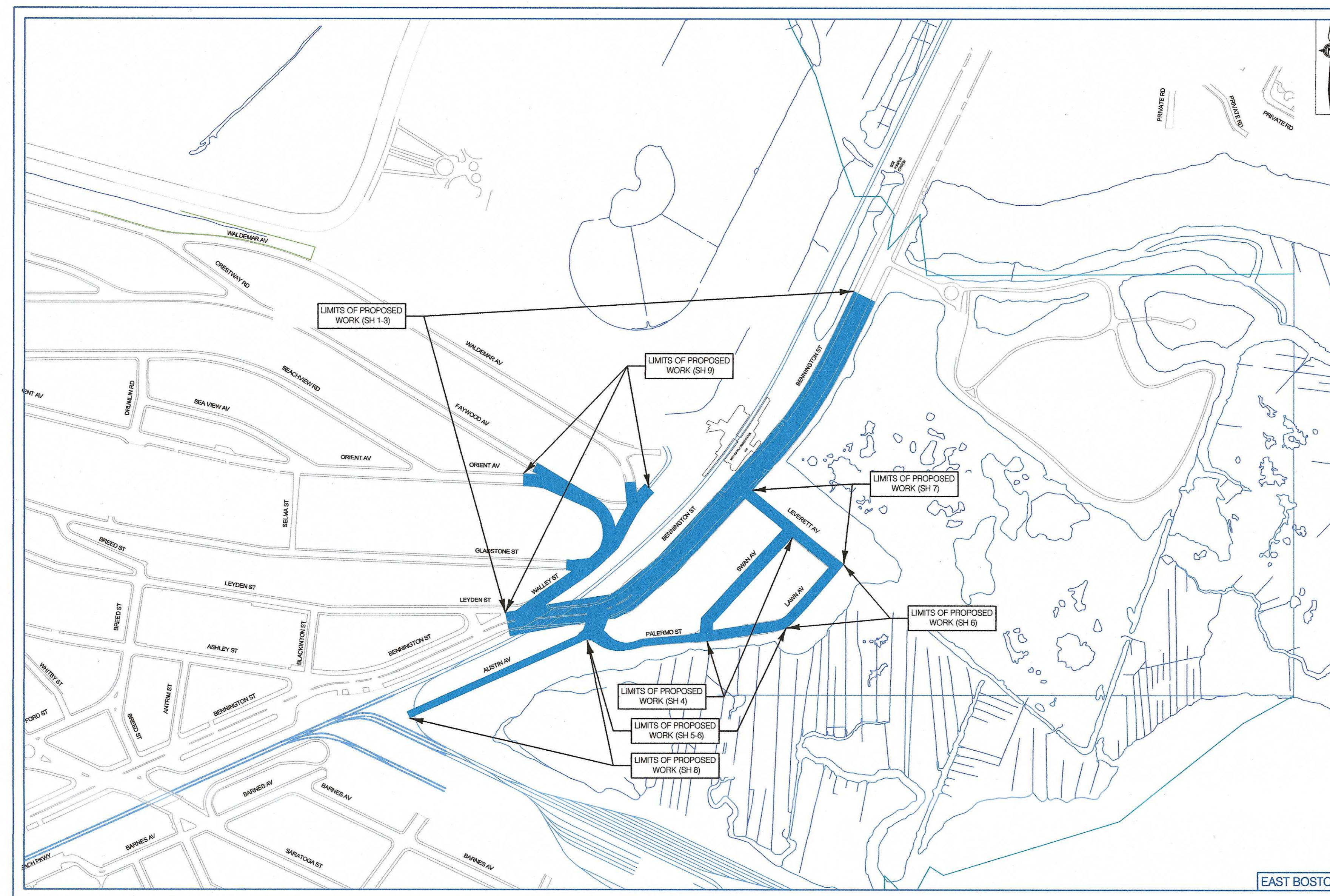
HENRY F. VITALE

**CHIEF ENGINEER**

JOHN P. SULLIVAN, Jr., P.E.



**DIRECTOR OF ENGINEERING**



LOCATION MAP

SCALE: 1" = 300'

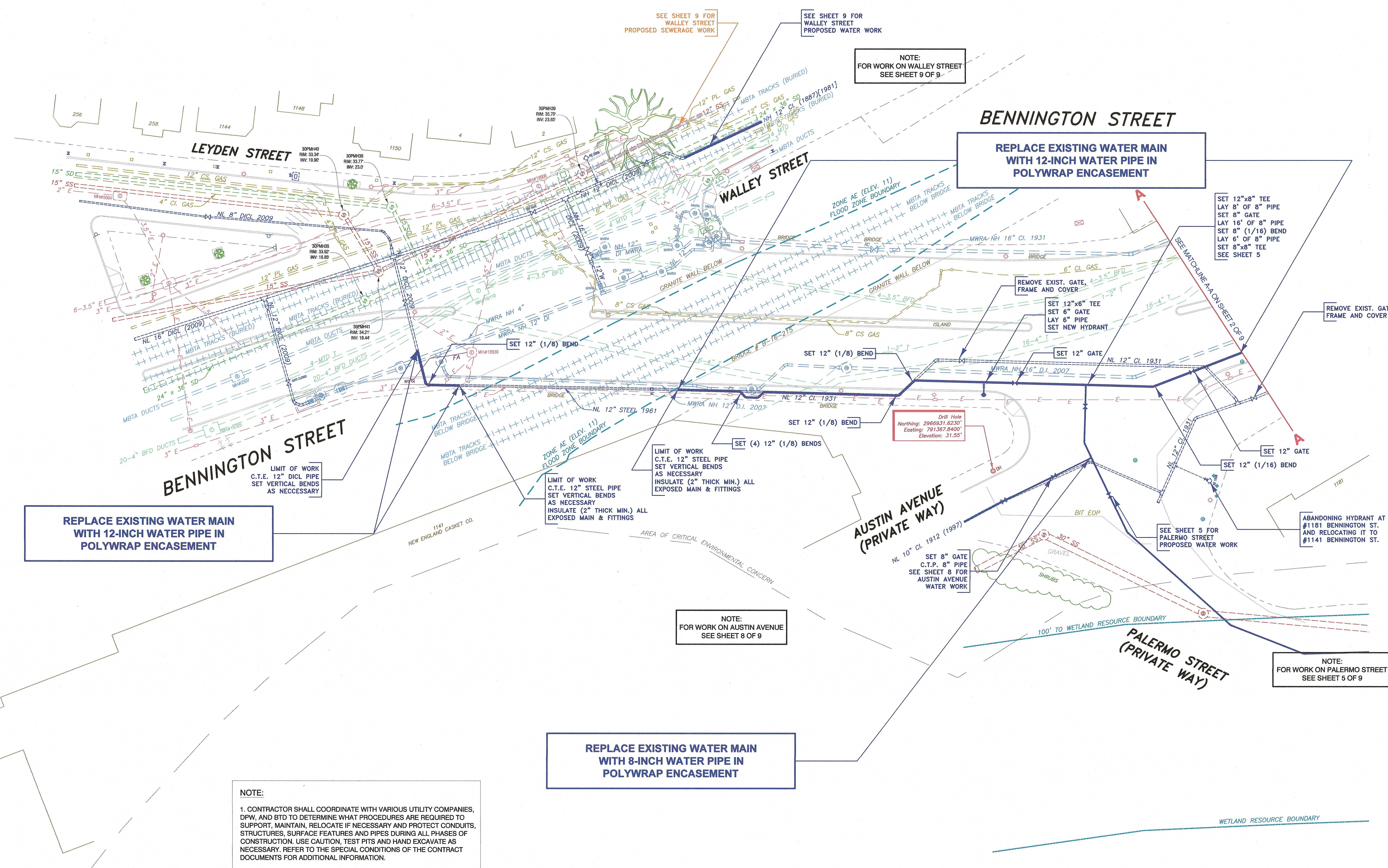
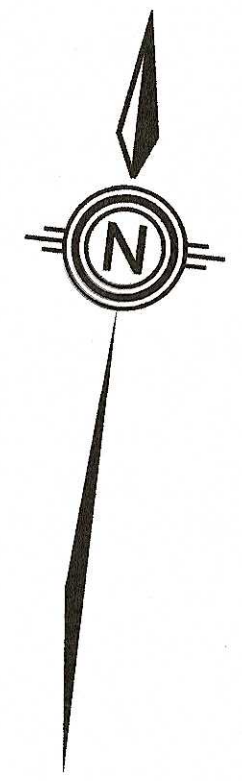
### INDEX OF DRAWINGS

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	Legend Sheet and General Notes	
1	Bennington Street Walley Street to Austin Avenue	East Boston
2	Bennington Street #1181 TO #1225	East Boston
3	Bennington Street #1225 TO DCR Park Entrance Toward Revere	East Boston
4	Swan Avenue Palermo Street to Leverett Avenue	East Boston
5	Palermo Street Austin Avenue to 495 Feet Easterly	East Boston
6	Palermo Street #20 to Lawn Avenue	East Boston
6	Lawn Avenue Palermo Street to Leverett Avenue	East Boston
7	Leverett Avenue Bennington Street to Lawn Avenue	East Boston
8	Austin Avenue Palermo Street to End	East Boston
9	Walley Street #6 to Waldemar Avenue	East Boston
9	Orient Avenue Walley Street to #24	East Boston

ENGINEERING DESIGN DIVISION

**PRELIMINARY PLANS**  
NOT FOR CONSTRUCTION





REPLACE EXISTING WATER MAIN WITH 12-INCH WATER PIPE IN POLYWRAP ENCASEMENT

REPLACE EXISTING WATER MAIN WITH 12-INCH WATER PIPE IN POLYWRAP ENCASEMENT

REPLACE EXISTING WATER MAIN WITH 8-INCH WATER PIPE IN POLYWRAP ENCASEMENT

NOTE:  
1. CONTRACTOR SHALL COORDINATE WITH VARIOUS UTILITY COMPANIES, DPW, AND BTD TO DETERMINE WHAT PROCEDURES ARE REQUIRED TO SUPPORT, MAINTAIN, RELOCATE IF NECESSARY AND PROTECT CONDUITS, STRUCTURES, SURFACE FEATURES AND PIPES DURING ALL PHASES OF CONSTRUCTION. USE CAUTION, TEST PITS AND HAND EXCAVATE AS NECESSARY. REFER TO THE SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.

NOTE:  
FOR WORK ON WALLEY STREET  
SEE SHEET 9 OF 9

SEE SHEET 9 FOR  
WALLEY STREET  
PROPOSED SEWERAGE WORK

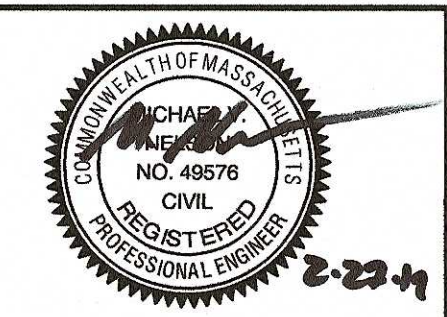
SEE SHEET 9 FOR  
WALLEY STREET  
PROPOSED WATER WORK

NOTE:  
FOR WORK ON AUSTIN AVENUE  
SEE SHEET 8 OF 9

NOTE:  
FOR WORK ON PALERMO STREET  
SEE SHEET 5 OF 9

**PRELIMINARY PLANS**  
NOT FOR CONSTRUCTION

B:\Projects\17-308\DWG\17-308-001.dwg, Bennington St., 2/20/2019, 10:00 AM, T. Nguyen



John P. Sullivan, Jr., P.E., Chief Engineer Date

Michael V. Nelson, P.E., Director of Engineering

BENNINGTON STREET, EAST BOSTON  
WALLEY STREET TO #1181

Designed by: P. Southworth  
Drawn by: T. Nguyen  
Checked by: T. Daly  
Date: Approved: Revision:

Date: February 2019  
Scale: Horiz.: 1" = 20'  
Vert.: N/A  
Page Size: 30x42 (A02) (E1)

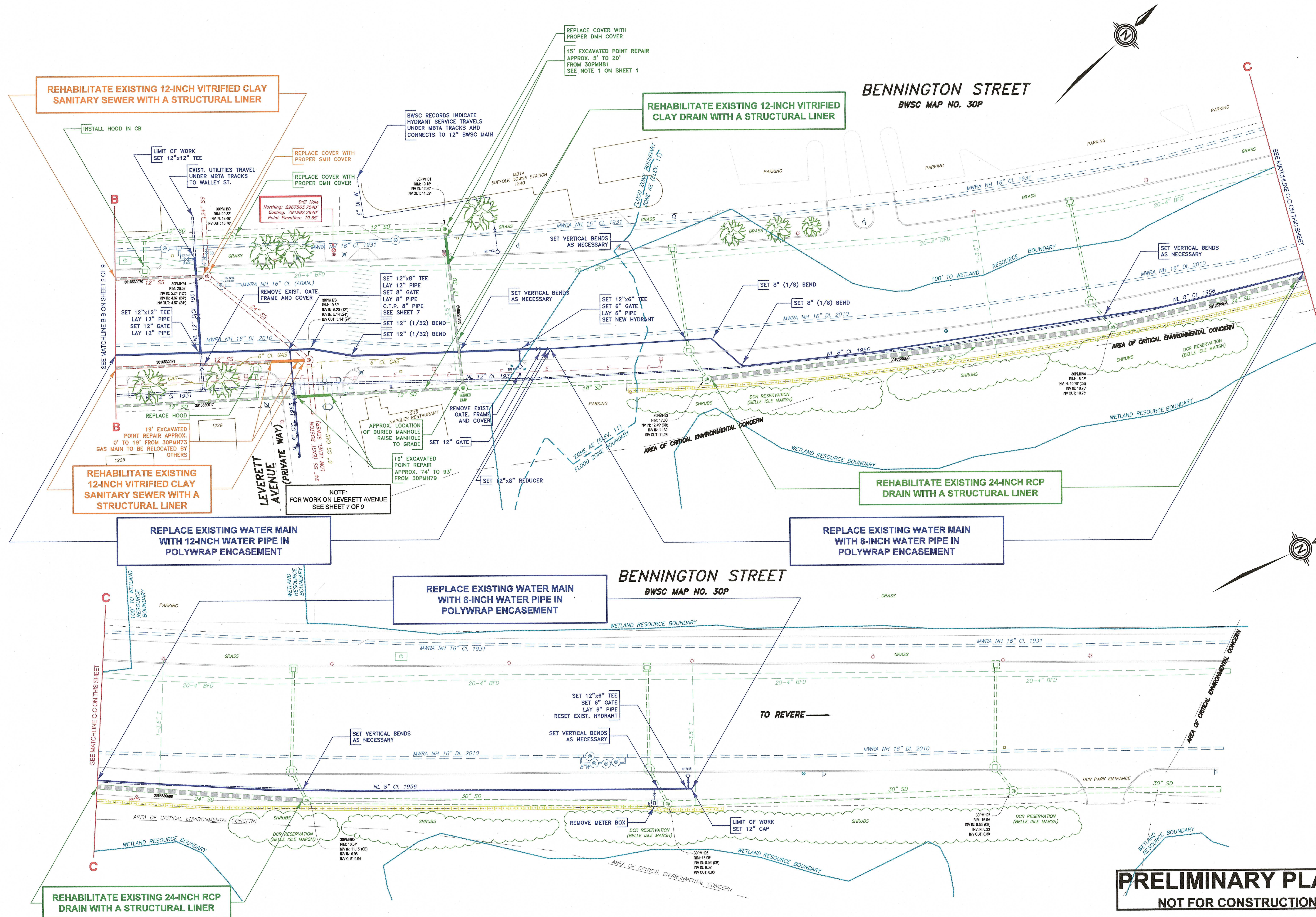


**BOSTON WATER AND SEWER COMMISSION**  
CONTRACT NO. 17-308-001

ENGINEERING: DESIGN DIVISION  
WATER, SEWERAGE AND DRAINAGE  
WORKS IMPROVEMENTS

SHEET NO.  
1 of 9





**BENNINGTON STREET**  
BWSC MAP NO. 30P

**BENNINGTON STREET**  
BWSC MAP NO. 30P

**PRELIMINARY PLANS**  
NOT FOR CONSTRUCTION

File: 17-00000001.dwg, 17-00000001-000-001, Bennington St., 1/26/13  
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 User: 17-00000001-000-001

John P. Sullivan, Jr., P.E., Chief Engineer

Michael V. Nelson, P.E., Director of Engineering

**BENNINGTON STREET, EAST BOSTON**  
#1225 TO DCR PARK ENTRANCE TOWARD REVERE

Designed by: P. Southworth  
 Drawn by: T. Nguyen  
 Checked by: T. Daly  
 Date: February 2019  
 Scale: Horiz: 1" = 20'  
 Vert: 1" = 4'  
 Page Size: 30"x42" (MCH E1)

**BOSTON WATER AND SEWER COMMISSION**  
CONTRACT NO. 17-308-001

ENGINEERING: DESIGN DIVISION  
 WATER, SEWERAGE AND DRAINAGE  
 WORKS IMPROVEMENTS

SHEET NO.  
3 OF 9







NOTE:  
FOR WORK ON BENNINGTON STREET  
SEE SHEET 1 OF 9

SET 12"x6" TEE  
SET 6" GATE  
LAY 6" PIPE  
SET NEW HYDRANT

SEE SHEET 1 FOR  
BENNINGTON STREET  
PROPOSED WATER WORK

REPLACE EXISTING WATER MAIN  
WITH 8-INCH WATER PIPE IN  
POLYWRAP ENCASEMENT

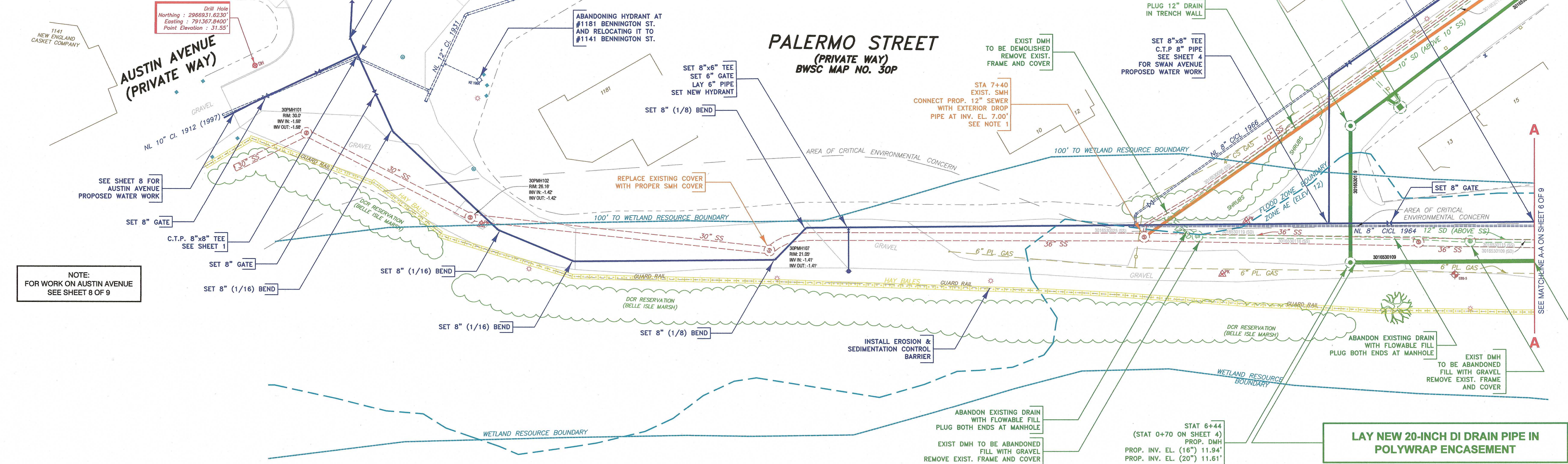
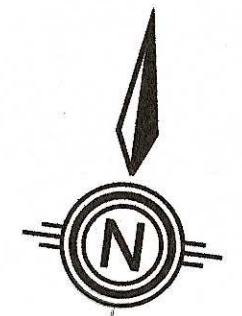
NOTE:  
FOR WORK ON SWAN AVENUE  
SEE SHEET 4 OF 9

NOTE:  
FOR WORK ON BENNINGTON STREET  
SEE SHEET 2 OF 9

AUSTIN AVENUE  
(PRIVATE WAY)

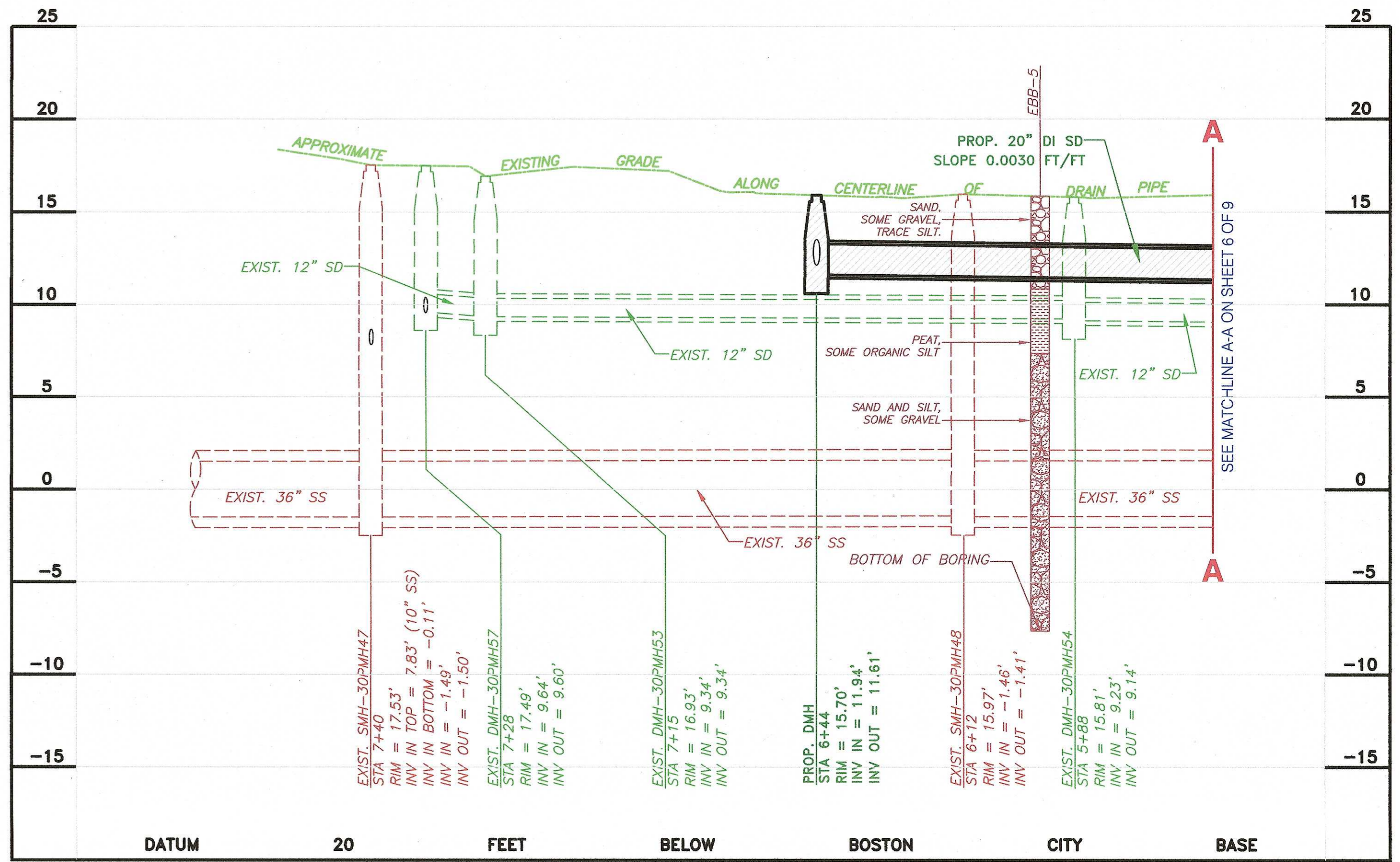
PALERMO STREET  
(PRIVATE WAY)  
BWSC MAP NO. 30P

SWAN AVENUE  
(PRIVATE WAY)



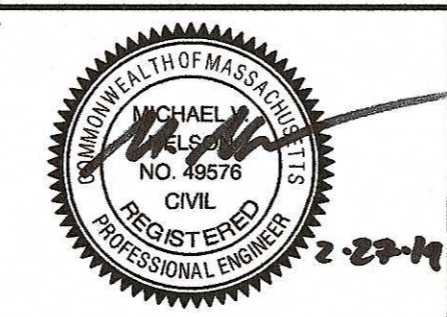
NOTE:  
FOR WORK ON AUSTIN AVENUE  
SEE SHEET 8 OF 9

NOTE:  
1. CONTRACTOR SHALL VERIFY CONDITION OF EXTERIOR DROP TO EXISTING SEWER MANHOLE 30PMH47 AND REPORT FINDINGS TO THE ENGINEER PRIOR TO CONSTRUCTING THE PROPOSED CONNECTION. CONTRACTOR SHALL INSTALL EXTERIOR DROP TO EXISTING SEWER MANHOLE 30PMH47 AT THE DETERMINATION OF THE ENGINEER. ALL CONNECTIONS TO EXISTING SEWER MANHOLE 30PMH47 SHALL BE FIELD CORED.  
2. CONTRACTOR SHALL CONFIRM NO ACTIVE SERVICES PRIOR TO FILLING ABANDONED MAINS.



PROFILE  
**PRELIMINARY PLANS**  
NOT FOR CONSTRUCTION

PalerMO Street, East Boston  
 Austin Avenue to 495 Feet EASTERLY  
 17-308-001  
 1/20/2019  
 11:20 AM  
 1/20/2019



PALERMO STREET, EAST BOSTON  
AUSTIN AVENUE TO 495 FEET EASTERLY

Designed by: P. Southworth  
 Drawn by: T. Nguyen  
 Checked by: T. Daly  
 Date: February 2019  
 Scale: Horiz.: 1" = 20'  
 Vert.: N/A  
 Page Size: 30"x42" (A0) (E1)

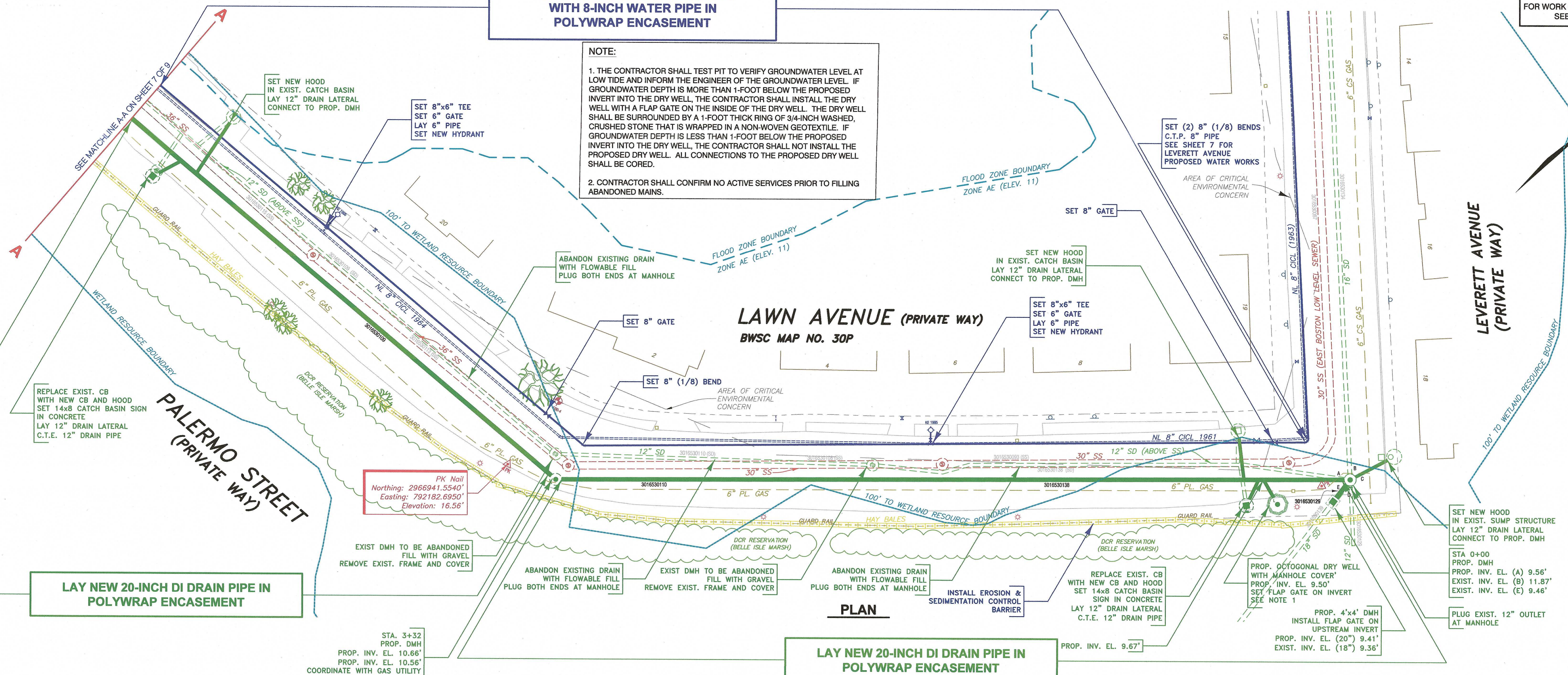
**BOSTON WATER AND SEWER COMMISSION**  
 CONTRACT NO. 17-308-001  
 ENGINEERING: DESIGN DIVISION  
 WATER, SEWERAGE AND DRAINAGE  
 WORKS IMPROVEMENTS  
 SHEET NO. 5 OF 9



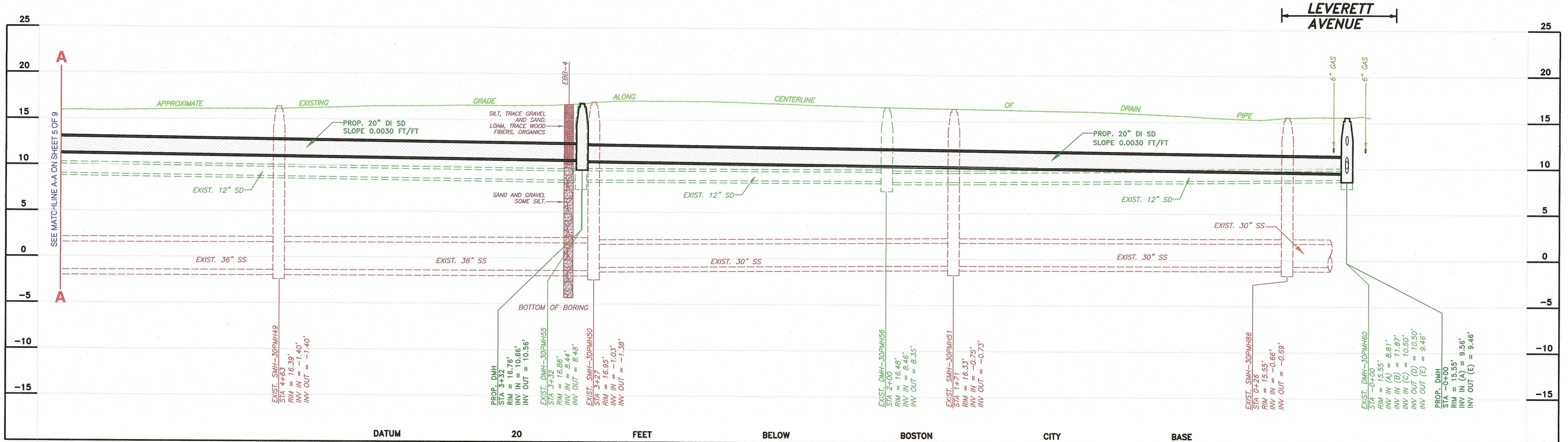
**REPLACE EXISTING WATER MAIN WITH 8-INCH WATER PIPE IN POLYWRAP ENCASEMENT**

NOTE:  
FOR WORK ON LEVERETT AVENUE  
SEE SHEET 7 OF 9

**NOTE:**  
1. THE CONTRACTOR SHALL TEST PIT TO VERIFY GROUNDWATER LEVEL AT LOW TIDE AND INFORM THE ENGINEER OF THE GROUNDWATER LEVEL. IF GROUNDWATER DEPTH IS MORE THAN 1-FOOT BELOW THE PROPOSED INVERT INTO THE DRY WELL, THE CONTRACTOR SHALL INSTALL THE DRY WELL WITH A FLAP GATE ON THE INSIDE OF THE DRY WELL. THE DRY WELL SHALL BE SURROUNDED BY A 1-FOOT THICK RING OF 3/4-INCH WASHED, CRUSHED STONE THAT IS WRAPPED IN A NON-WOVEN GEOTEXTILE. IF GROUNDWATER DEPTH IS LESS THAN 1-FOOT BELOW THE PROPOSED INVERT INTO THE DRY WELL, THE CONTRACTOR SHALL NOT INSTALL THE PROPOSED DRY WELL. ALL CONNECTIONS TO THE PROPOSED DRY WELL SHALL BE CORED.  
2. CONTRACTOR SHALL CONFIRM NO ACTIVE SERVICES PRIOR TO FILLING ABANDONED MAINS.



**PLAN**



**PROFILE**

**PRELIMINARY PLANS**  
NOT FOR CONSTRUCTION

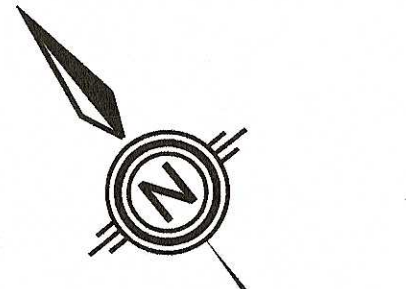
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 User: T. Nguyen  
 Date: 2/16/2019 11:52 AM  
 Plot Date: 2/16/2019 11:52 AM  
 Plot Scale: 1" = 5'

PALERMO STREET, EAST BOSTON #20 TO LAWN AVENUE LAWN AVENUE, EAST BOSTON PALERMO STREET TO LEVERETT AVENUE		Designed by: P. Southworth Drawn by: T. Nguyen Checked by: T. Daly	Date: February 2019 Scale: Horiz: 1" = 20' Vert: 1" = 5' Page Size: 30"x42" (ARCH E)	<b>BOSTON WATER AND SEWER COMMISSION</b> CONTRACT NO. 17-308-001	ENGINEERING: DESIGN DIVISION WATER, SEWERAGE AND DRAINAGE WORKS IMPROVEMENTS	SHEET NO. <b>6 of 9</b>
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REPLACE EXISTING WATER MAIN  
WITH 8-INCH WATER PIPE IN  
POLYWRAP ENCASEMENT

**LEVERETT AVENUE**  
(PRIVATE WAY)  
BWSC MAP NO. 30P



NOTE:  
FOR WORK ON BENNINGTON STREET  
SEE SHEET 1-3 OF 9

15' EXCAVATED POINT REPAIR  
APPROXIMATE LOCATION  
SEE SHEET 3 FOR DETAILS

Drill Hole  
Northing: 2967563.7540'  
Easting: 791992.2640'  
Elevation: 19.65'

BENNINGTON STREET

SET 8"x8" TEE  
LAY 8" PIPE  
SET 8" GATE  
C.T.P. 8" PIPE  
SEE SHEET 4 FOR  
SWAN AVENUE  
PROPOSED WATER WORK

SET NEW HOOD  
IN EXIST. CATCH BASIN  
LAY 12" DRAIN LATERAL  
CONNECT TO EXIST. 16" DRAIN  
ABANDON EXIST. CB LATERAL  
WITH BRICKWORK

NOTE:  
FOR WORK ON SWAN AVENUE  
SEE SHEET 4 OF 9

EXIST. SMH TO BE ABANDONED  
FILL WITH GRAVEL  
REMOVE EXIST. FRAME AND COVER

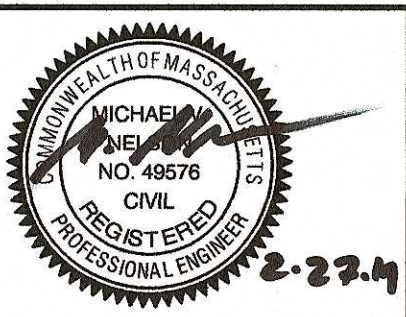
EXIST. DMH TO BE ABANDONED  
FILL WITH GRAVEL  
REMOVE EXIST. FRAME AND COVER

NOTE:  
FOR WORK ON LAWN AVENUE  
SEE SHEET 6 OF 9

NOTE:  
1. CONTRACTOR SHALL CONFIRM NO ACTIVE SERVICES PRIOR TO FILLING  
ABANDONED MAINS.

**PRELIMINARY PLANS**  
NOT FOR CONSTRUCTION

Filepath: \\p:\proj\17-308-00\DWG\17-308-00-004\_Planes\_Sewer\_Leverett\_LawnWay\_16b7.dwg  
 Sheet No: 02/09/19 11:21 AM by: 2020/02/09/19



LEVERETT AVENUE, EAST BOSTON  
BENNINGTON STREET TO LAWN AVENUE

Designed by: P. Southworth  
Drawn by: T. Nguyen  
Checked by: T. Daly  
Date: February 2019  
Scale: Horiz: 1" = 20'  
Vert: N/A  
Page Size: 30"x42" (A0/21 E1)



**BOSTON WATER AND SEWER COMMISSION**  
CONTRACT NO. 17-308-001

ENGINEERING: DESIGN DIVISION  
WATER, SEWERAGE AND DRAINAGE  
WORKS IMPROVEMENTS

SHEET NO.  
7 of 9

John P. Sullivan, Jr., P.E., Civil Engineer Date

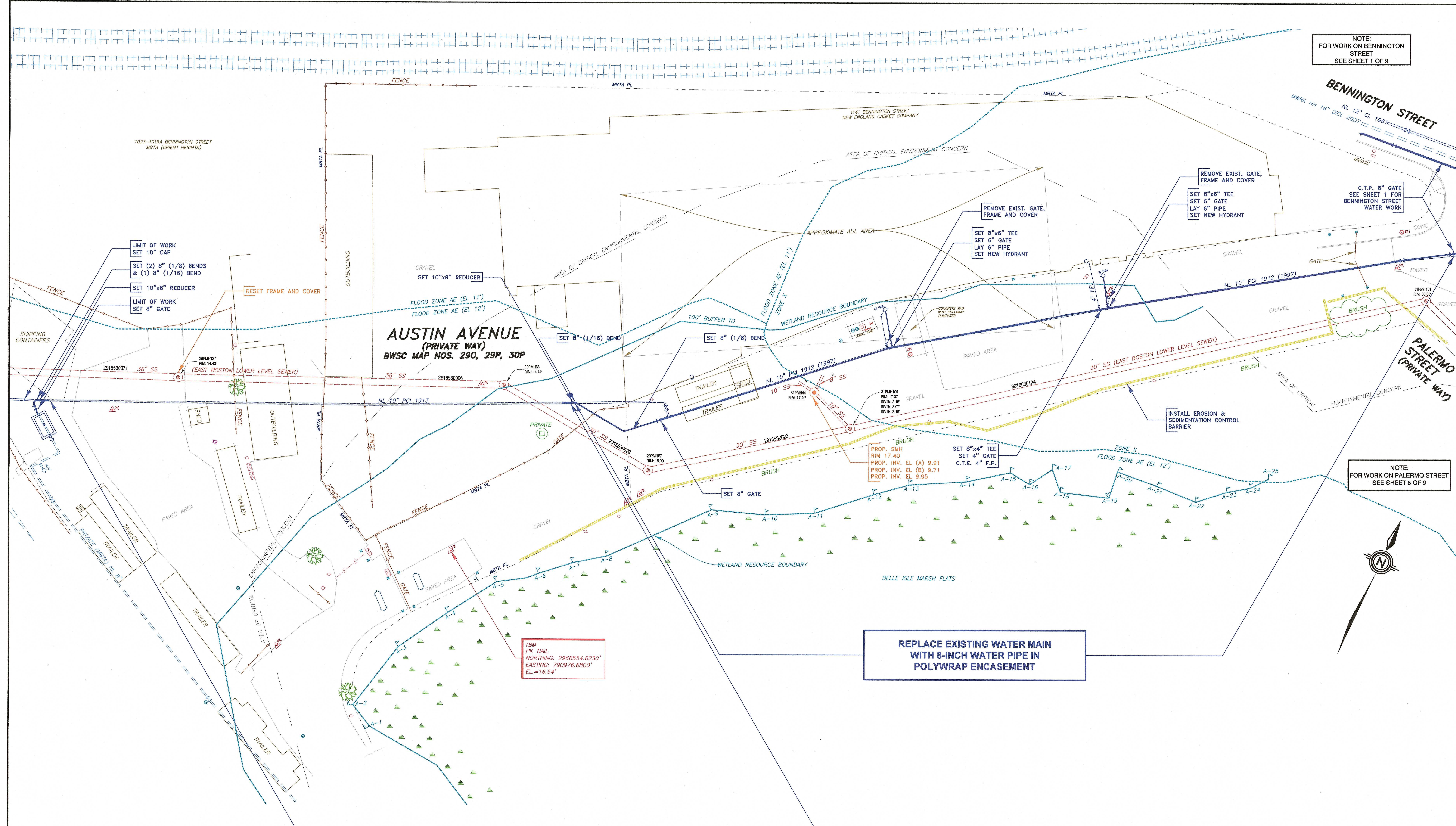
Michael V. Nelson, P.E., Director of Engineering

Date Approved Revision



NOTE:  
FOR WORK ON BENNINGTON STREET  
SEE SHEET 1 OF 9

NOTE:  
FOR WORK ON PALERMO STREET  
SEE SHEET 5 OF 9



LIMIT OF WORK  
SET 10" CAP  
SET (2) 8" (1/8) BENDS  
& (1) 8" (1/16) BEND  
SET 10"x8" REDUCER  
LIMIT OF WORK  
SET 8" GATE

**AUSTIN AVENUE  
(PRIVATE WAY)  
BWS MAP NOS. 290, 29P, 30P**

**REPLACE EXISTING WATER MAIN  
WITH 8-INCH WATER PIPE IN  
POLYWRAP ENCASMENT**

**CLEAN AND REHABILITATE  
EXISTING 10-INCH WATER MAIN  
WITH A STRUCTURAL LINER**

NOTE:  
1. BWS RECORDS INDICATE THAT THE WATER METER HOUSED IN THE METER PIT ON MBTA PROPERTY IS A NEPTUNE HIGH PERFORMANCE PROTECTUS® III FIRE SERVICE METER (8" MAINLINE TURBINE METER, 2" T-10 BYPASS METER).  
2. THE CONTRACTOR SHALL POLYWRAP ALL DICL WATER MAIN AND APPURTENANCES INSTALLED BETWEEN THE SLIP LINE ACCESS PIT AND THE METER PIT ON MBTA PROPERTY. ANY PART OF THE WATER MAIN EXPOSED TO AIR IN THE METER PIT SHALL BE INSULATED.

**PRELIMINARY PLANS  
NOT FOR CONSTRUCTION**

File: C:\Users\paul\OneDrive\Documents\2019\17-308\17-308-001\17-308-001.dwg, Date: 2/27/2019 10:10:10 AM, User: paul, Plot: 17-308-001.dwg, Plot Date: 2/27/2019 10:10:10 AM, Plot User: paul



AUSTIN AVENUE, EAST BOSTON  
PALERMO STREET TO END

Designed by: P. Southworth  
Drawn by: W. Donohoe  
Checked by: T. Daly  
Date: FEBRUARY, 2019  
Scale: Horiz: 1" = 20'  
Vert: N/A  
Page Size: 30"x42" (MCH E1)

**BOSTON WATER AND SEWER COMMISSION**  
CONTRACT NO. 17-308-001

ENGINEERING: DESIGN DIVISION  
WATER, SEWERAGE AND DRAINAGE  
WORKS IMPROVEMENTS  
SHEET NO. 8 OF 9