



Janet T. Mills
GOVERNOR

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Bruce A. Van Note
COMMISSIONER

March 12, 2020
Subject: Highway Reconstruction
State WIN: 023246.00
Location: **Waterville**
Amendment No. 1

Dear Sir/Ms.:

Please make the following changes to the Bid Documents:

In the Plan Set:

On SHEET NUMBER 1 OF 90, TITLE SHEET, under INDEX OF SHEETS, **ADD** the following in pen and ink:

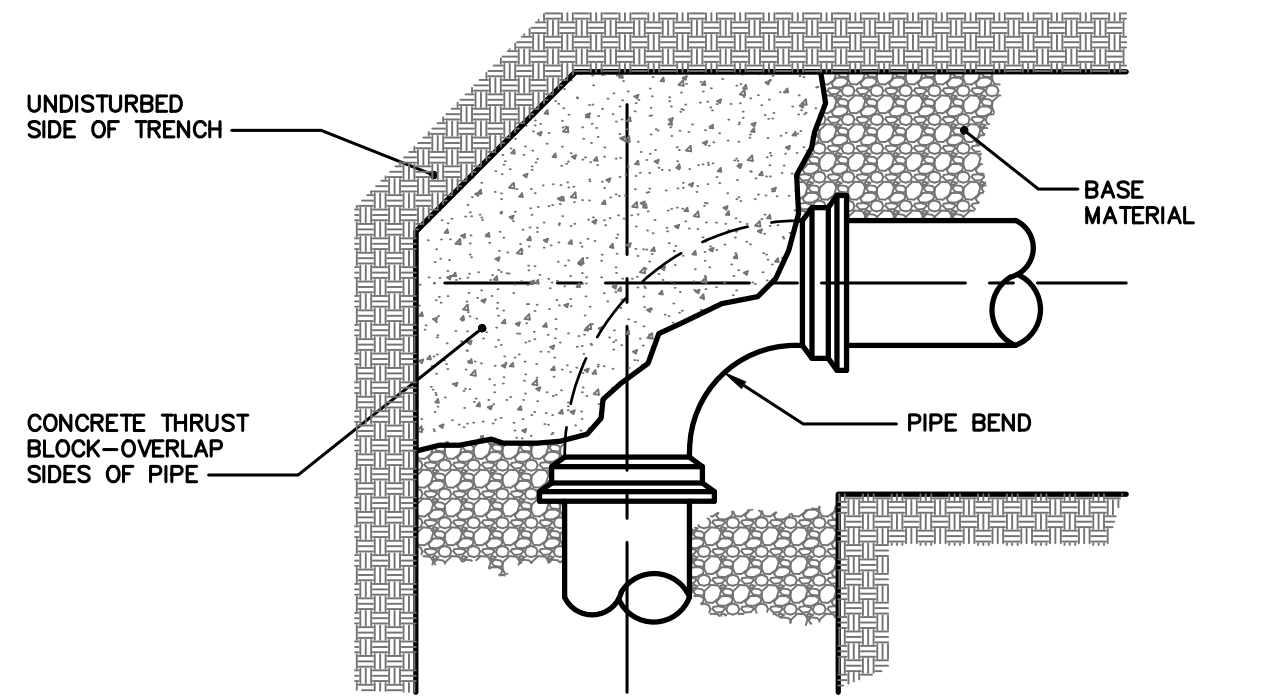
Drawing No. 1	Utility Details
Drawing No. 2	Water Main Plan and Profile
Drawing No. 3	Water Main Plan and Profile
Drawing No. 4	Water Main Plan and Profile

ADD the attached "Trafton Road Water Main" Drawings, 4 sheets.

Consider these changes and information prior to submitting your bid on **April 1, 2020**.

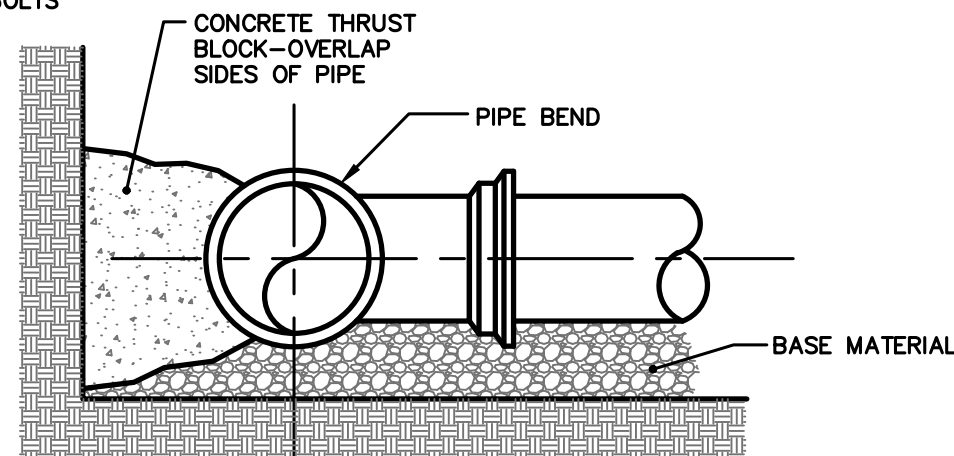
Sincerely,

George M. A. Macdougall P.E.
Contracts & Specifications Engineer



PLAN VIEW

NOTE: KEEP CONCRETE CLEAR OF PIPE JOINT, NUTS AND BOLTS



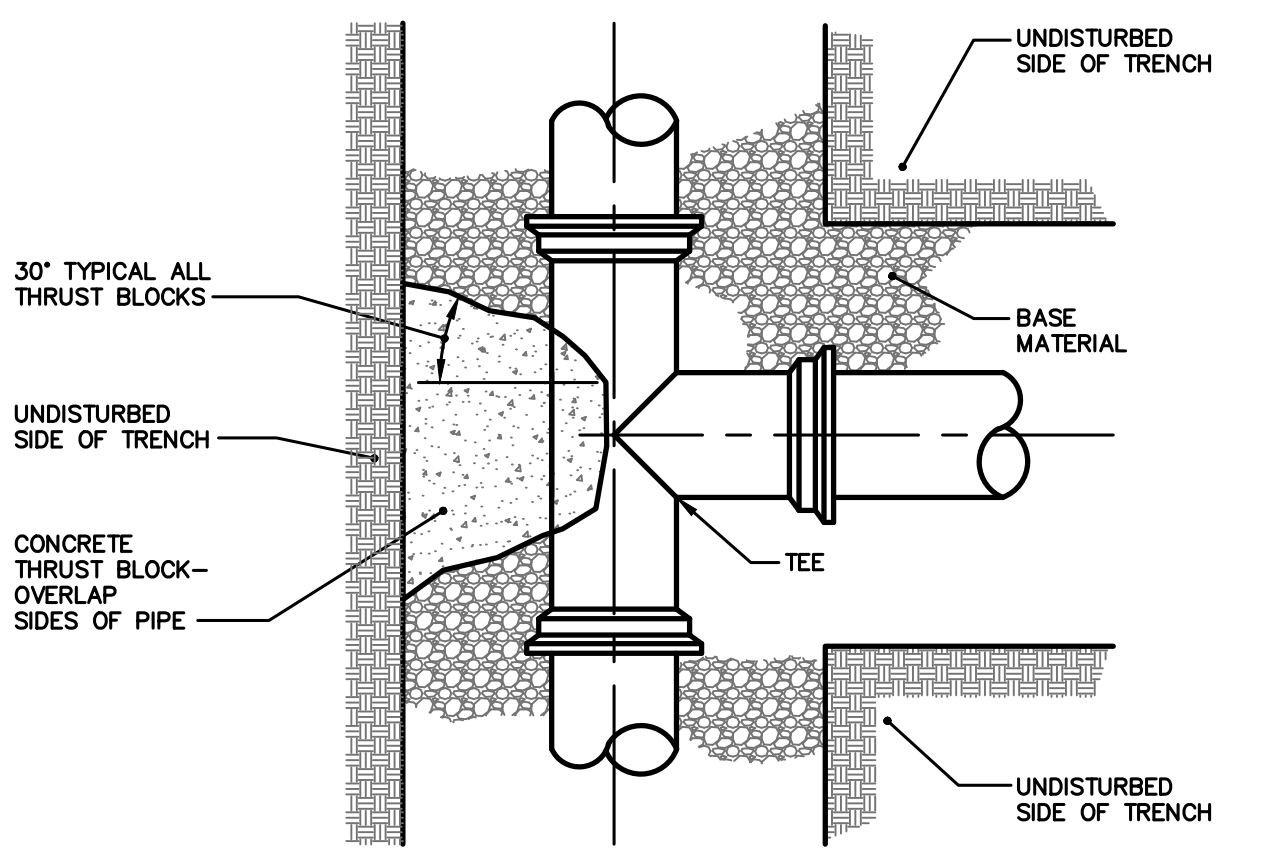
SECTION

THRUST/RETAINER GLAND SCHEDULE		
1/4 BEND	90°	USE POURED IN-PLACE THRUST BLOCK WITH RETAINERS
1/8 BEND	45°	THRUST BLOCK WITH RETAINERS
1/16 BEND	22 1/2°	THRUST BLOCK
1/32 BEND	11 1/4°	THRUST BLOCK

THE ABOVE SCHEDULE IS SUBJECT TO THE APPROVAL OF THE ON-SITE INSPECTOR DUE TO SOILS AND WORKING PRESSURES IN THE AREA.

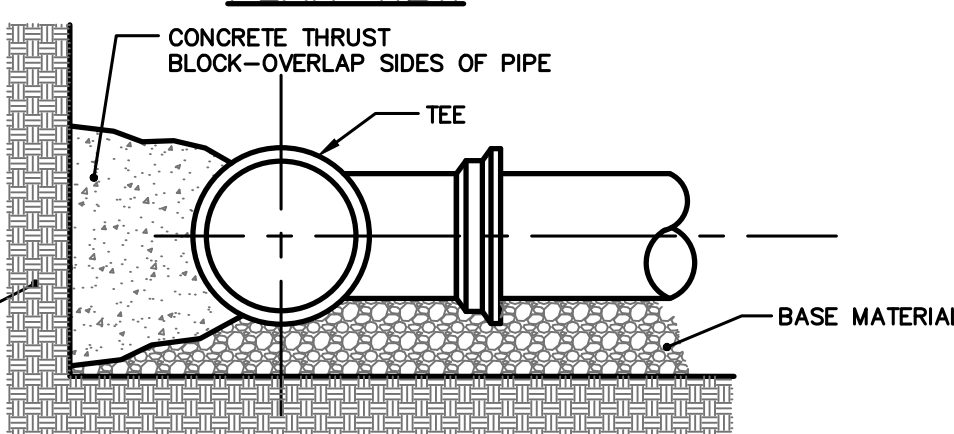
THRUST BLOCK PLACEMENT ON BENDS

NOT TO SCALE



PLAN VIEW

NOTE: KEEP CONCRETE CLEAR OF PIPE JOINT, NUTS AND BOLTS



SECTION VIEW

THRUST BLOCK PLACEMENT ON TEES

NOT TO SCALE

1. THE BEARING SURFACE OF THE THRUST BLOCK SHALL BE THE SURFACE AREA OF THE THRUST BLOCK WHICH IS CAST AGAINST THE TRENCH WALL. THE BEARING SURFACE SHALL NOT EXCEED THE FOLLOWING LOADINGS:

IN-SITU CONDITION	ALLOWABLE
BEDROCK	3,000 psf
SAND OR OUTWASH DEPOSITS	1,500 psf
OTHER SOILS	1,000 psf

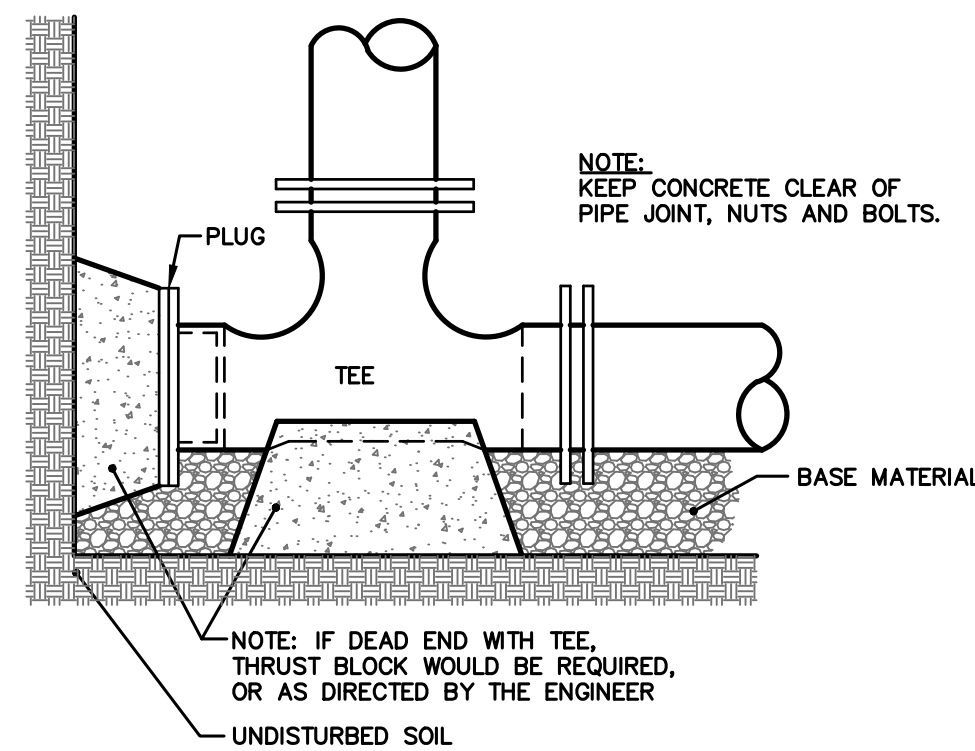
THE THRUST SHALL BE COMPUTED ON THE BASIS OF 150 psf x THE CROSS SECTIONAL AREA OF THE PIPE. FOR EXAMPLE, A THRUST BLOCK FOR A 1/4 BEND ON AN 8" WATER MAIN BEARING AGAINST CLAY WOULD REQUIRE A BEARING SURFACE OF 7.5 s.f.

$$150 \text{ psf} \times 50 \text{ sq. in.} = 7.5 \text{ s.f.}$$

2. INSTALL POLY BARRIER BETWEEN PIPE AND ALL THRUST BLOCKS.

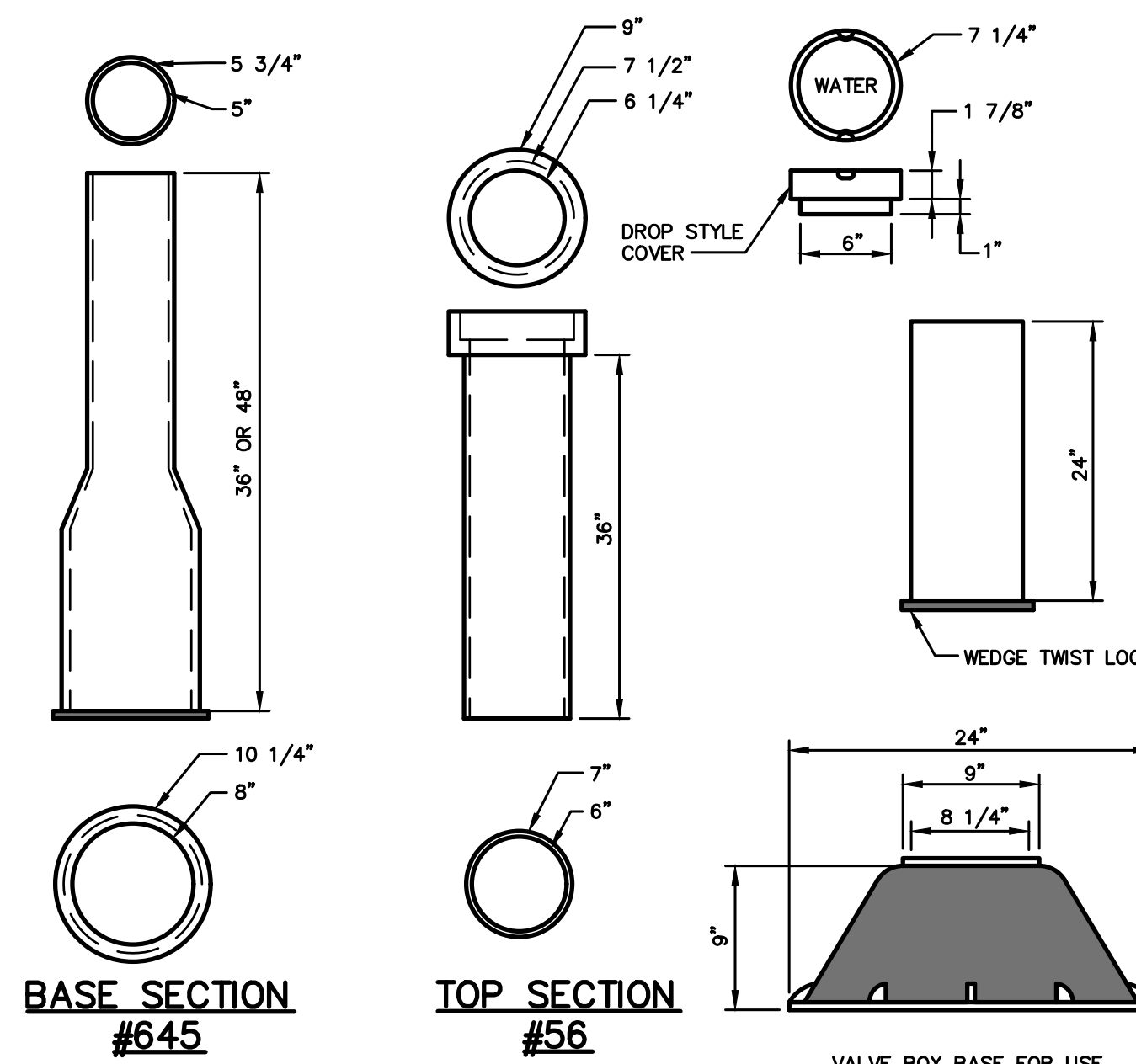
3. ANY WORK RELATED TO WATER PIPING OR DETAILS SHALL BE IN ACCORDANCE WITH THE KENNEBEC WATER DISTRICT SPECIFICATIONS.

THRUST BLOCK NOTES



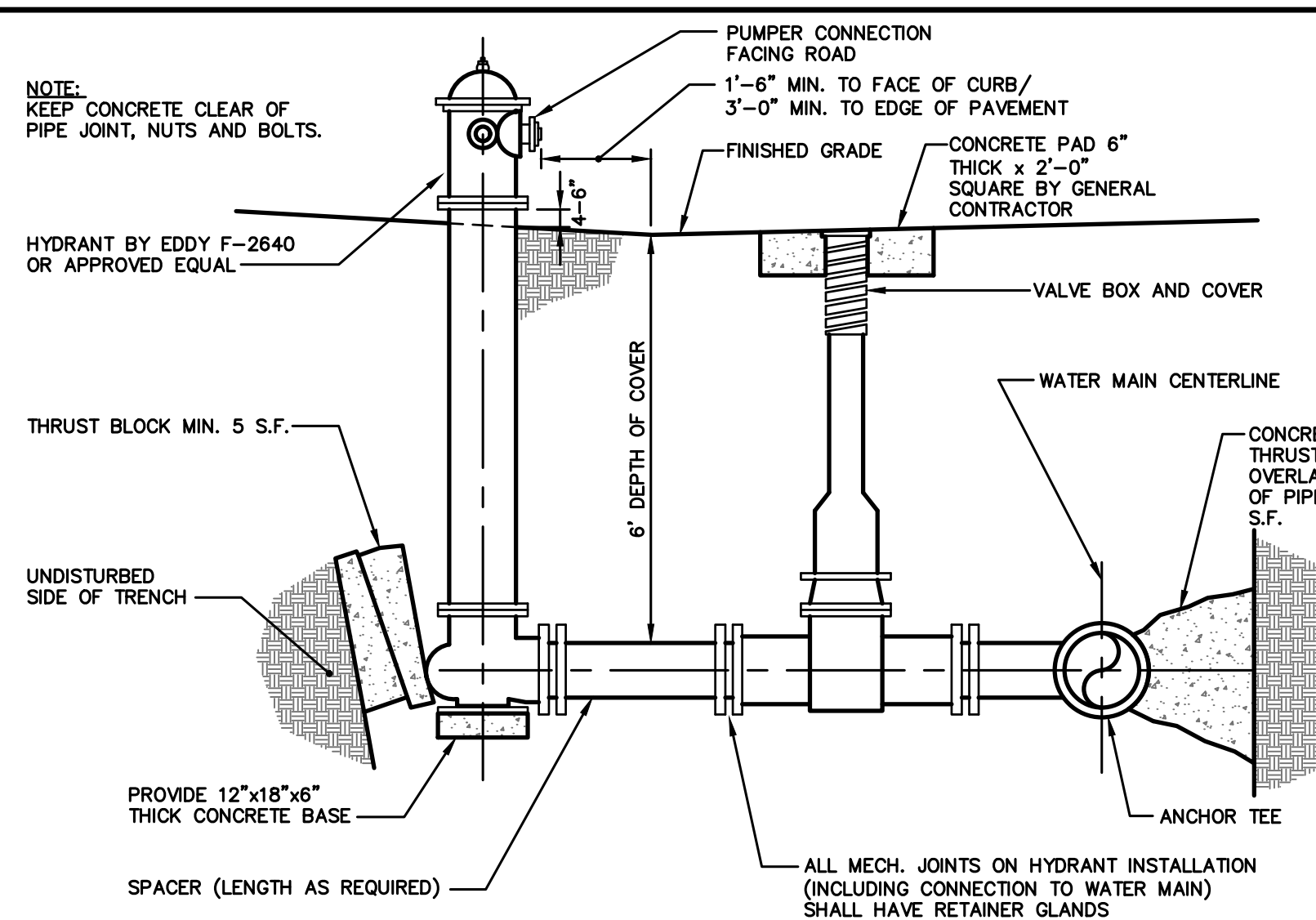
STANDARD TEE BLOCKING

NOT TO SCALE



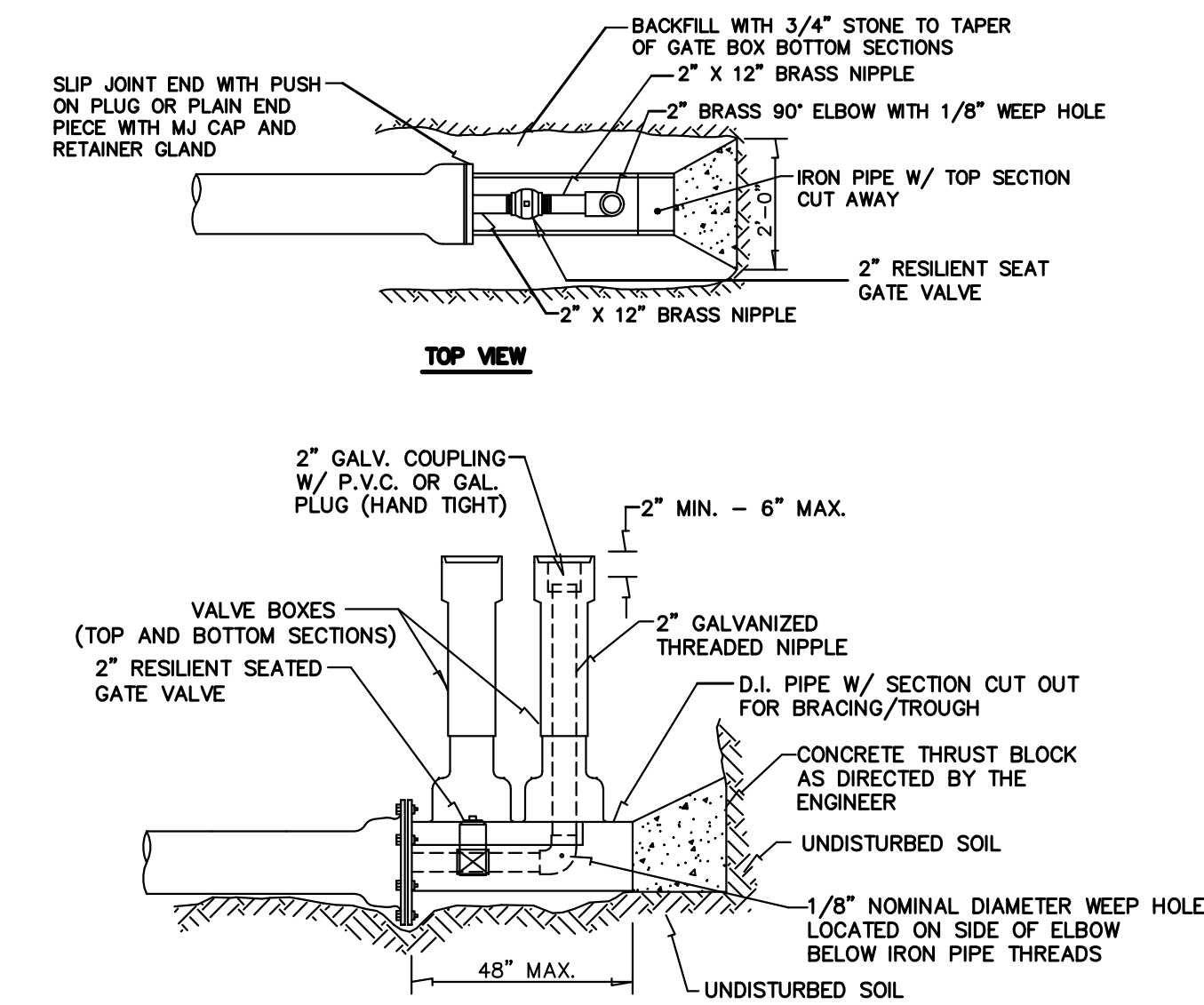
TYPICAL VALVE BOXES

NOT TO SCALE



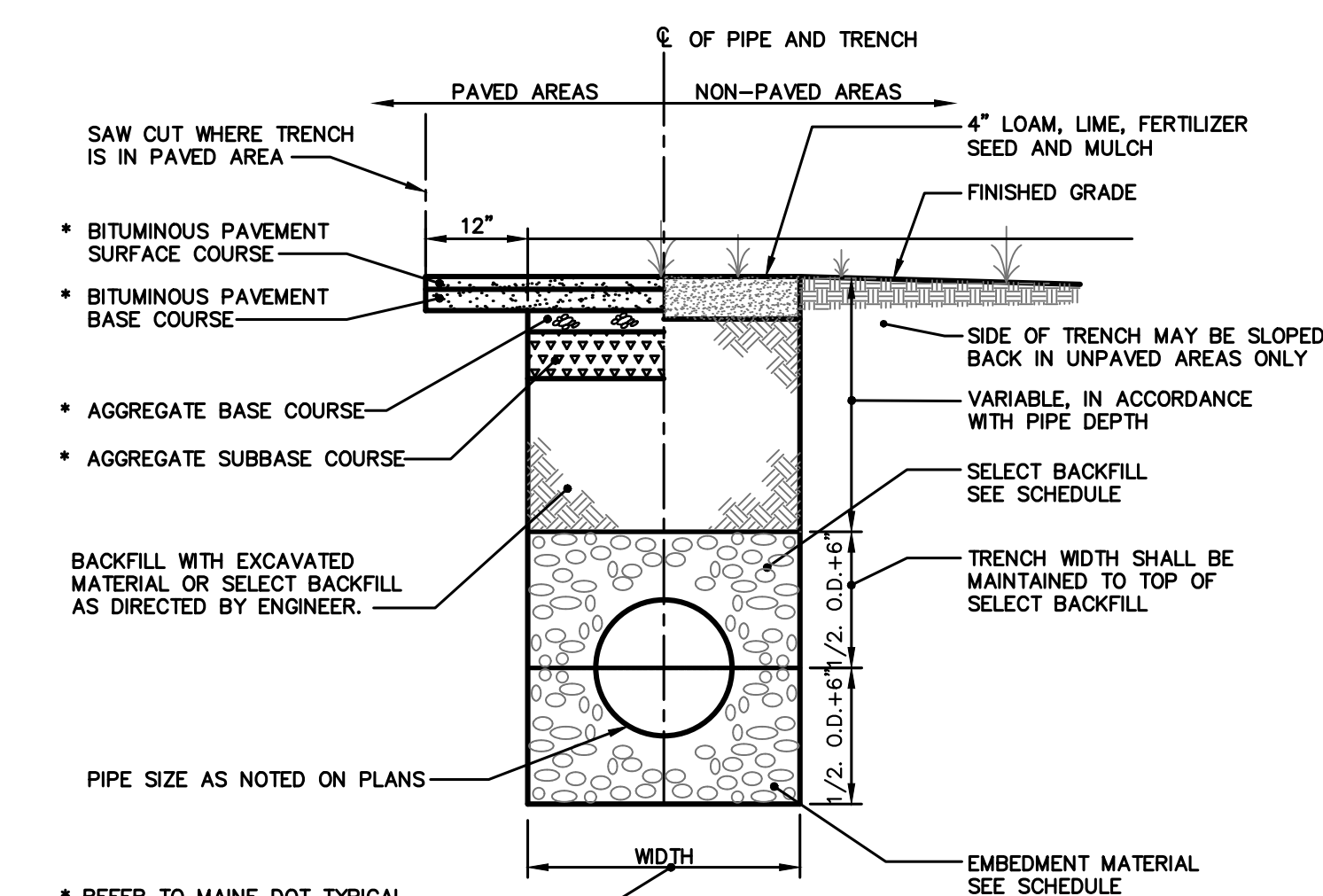
FIRE HYDRANT INSTALLATION

NOT TO SCALE



STANDARD 2" BLOW OFF

NOT TO SCALE



SCHEDULE OF TRENCH BACKFILL		
TYPE OF PIPE	EMBEDMENT MATERIAL	SELECT BACKFILL
CMP DUCTILE IRON RCP	MDOT 703.22 TYPE B UD BACKFILL	MDOT 703.22 TYPE B UD BACKFILL

NOTE:
1. BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. INSTALL WARNING TAPE DIRECTLY ABOVE UTILITIES, 12" BELOW FINISH GRADE.
MINIMUM COVER PIPE WATER (1) COVER BETWEEN 2' AND 3' SHALL INCLUDE 4" RIGID INSULATION. COVER BETWEEN 3' AND 4' SHALL INCLUDE 2" RIGID INSULATION.

TRENCH SECTION

N.T.S.

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Rev.	Date	Revision

BIDDING	02/04/20	DER
Issued For	Date	By

Design: DJV Draft: LAN Date: AUG 2018
Checked: DER Scale: NTS Job No.: 2233.09
File Name: 2233-09-DETAILS.dwg
This plan shall not be modified without written permission from Gorrill Palmer. Any alterations, authorized or otherwise, shall be at the user's sole risk and without liability to Gorrill Palmer.

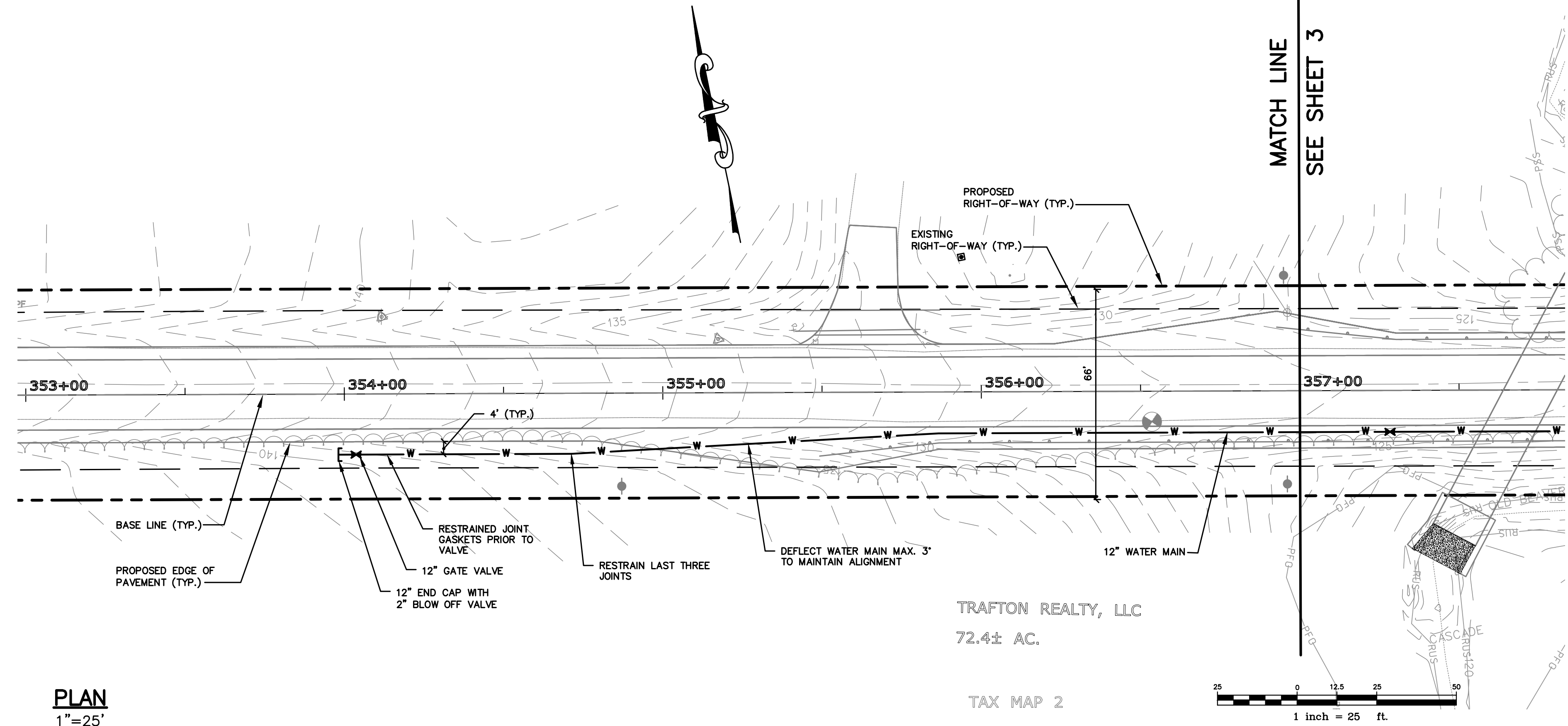


Relationships. Responsiveness. Results.
www.gorrillpalmer.com
207.772.2515

Drawing Name:	Utility Details
Project:	Trafton Road Water Main Waterville, Maine
Client:	Kennebec Water District P.O. Box 356, 6 Cool Street, Waterville, ME 04903

Drawing No.	1
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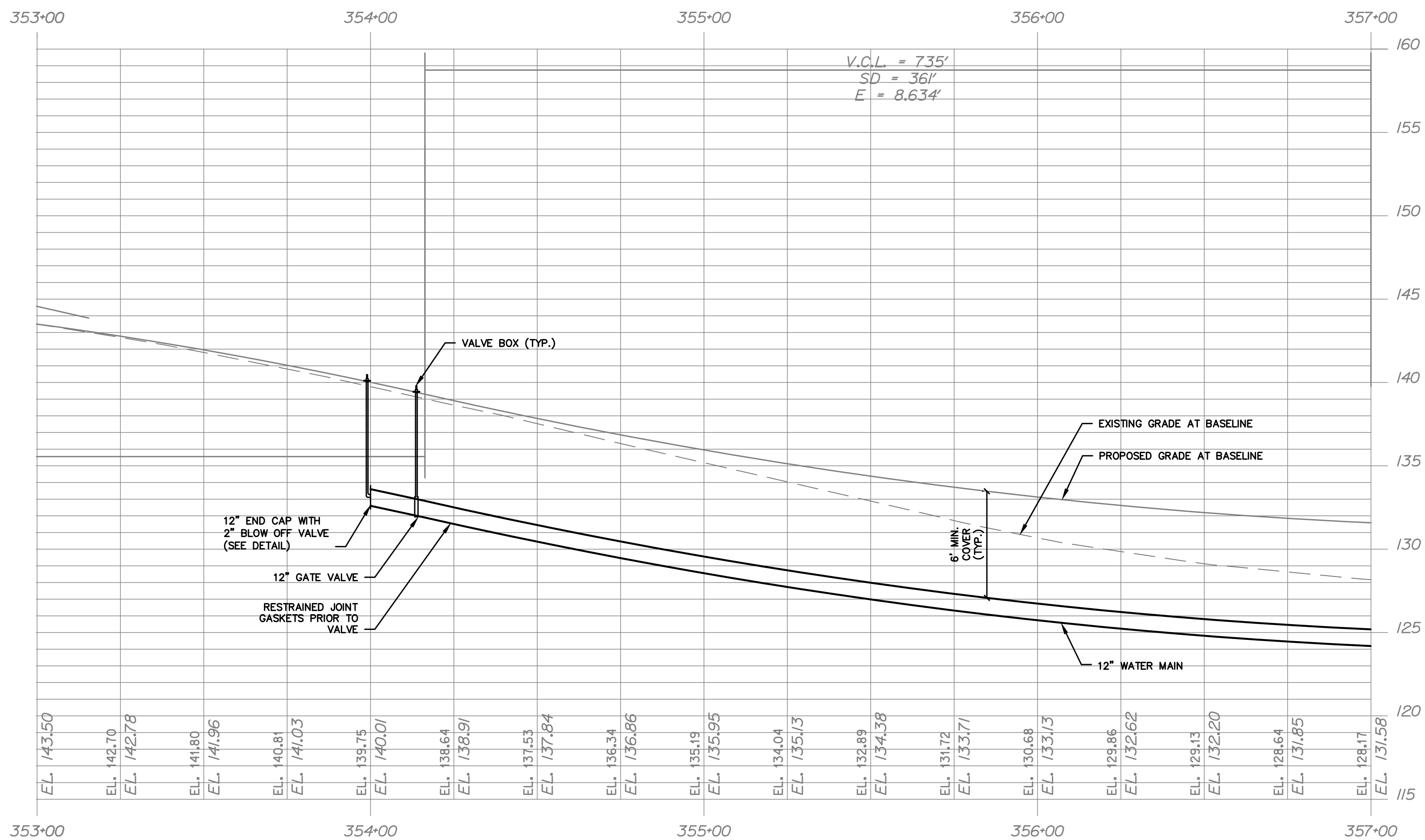
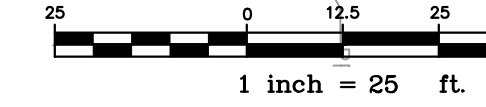




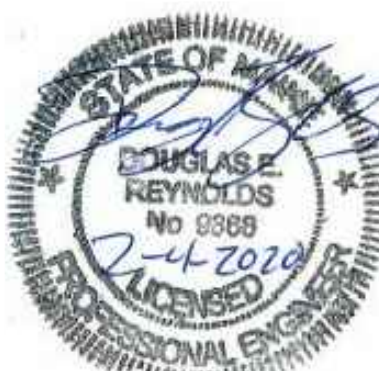
PLAN
1"=25'

TRAFTON REALTY, LLC
72.4± AC.

TAX MAP 2



PROFILE
SCALE: 1"=25' HORIZ.
1"=5' VERT.



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Rev.	Date	Revision

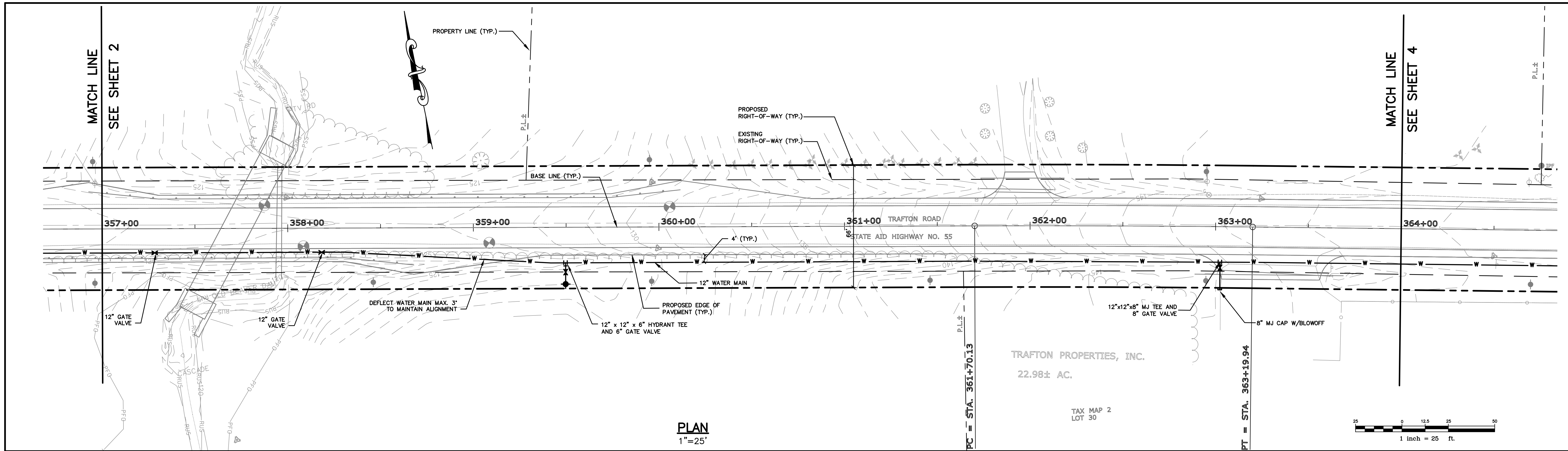
Issued For	Date	By
BIDDING	02/04/20	DER

Design: DJV Draft: LAN Date: AUG 2018
 Checked: DER Scale: 1"=25' Job No.: 2233.09
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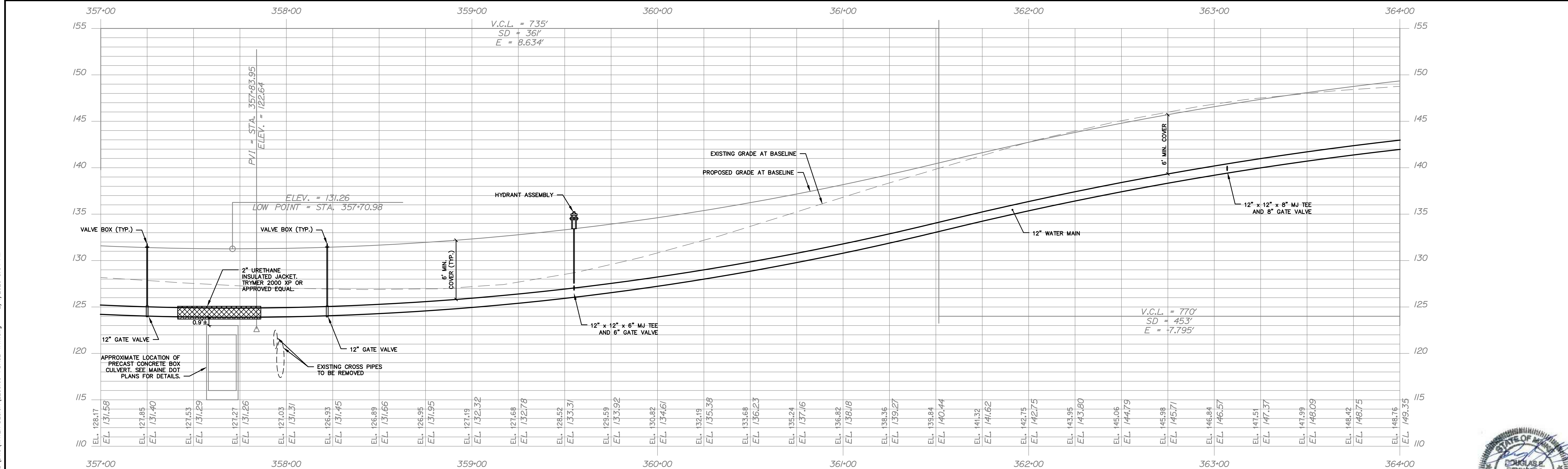
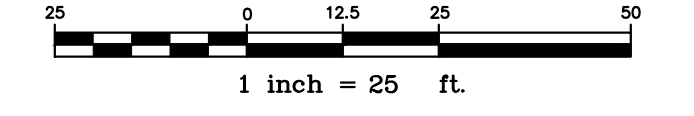
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Drawing Name: **Water Main Plan and Profile**
 Project: **Trafton Road Water Main**
 Waterville, Maine
 Client: **Kennebec Water District**
 P.O. Box 356, 6 Cool Street, Waterville, ME 04903

Drawing No.
2



PLAN
1"=25'



PROFILE
SCALE: 1"=25' HORIZ.
1"=5' VERT.



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Rev.	Date	Revision

BIDDING	02/04/20	DER
Issued For	Date	By

Design: DJV Draft: LAN Date: AUG 2018
 Checked: DER Scale: 1"=25' Job No.: 2233.09
 File Name: 2233.09-PBASE-WTR.dwg
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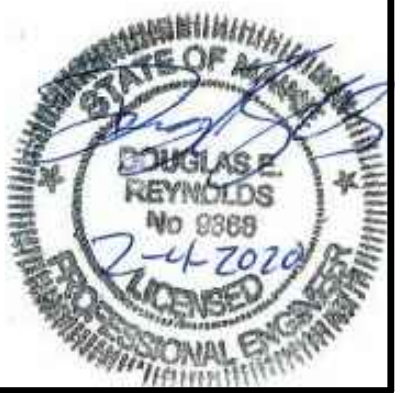
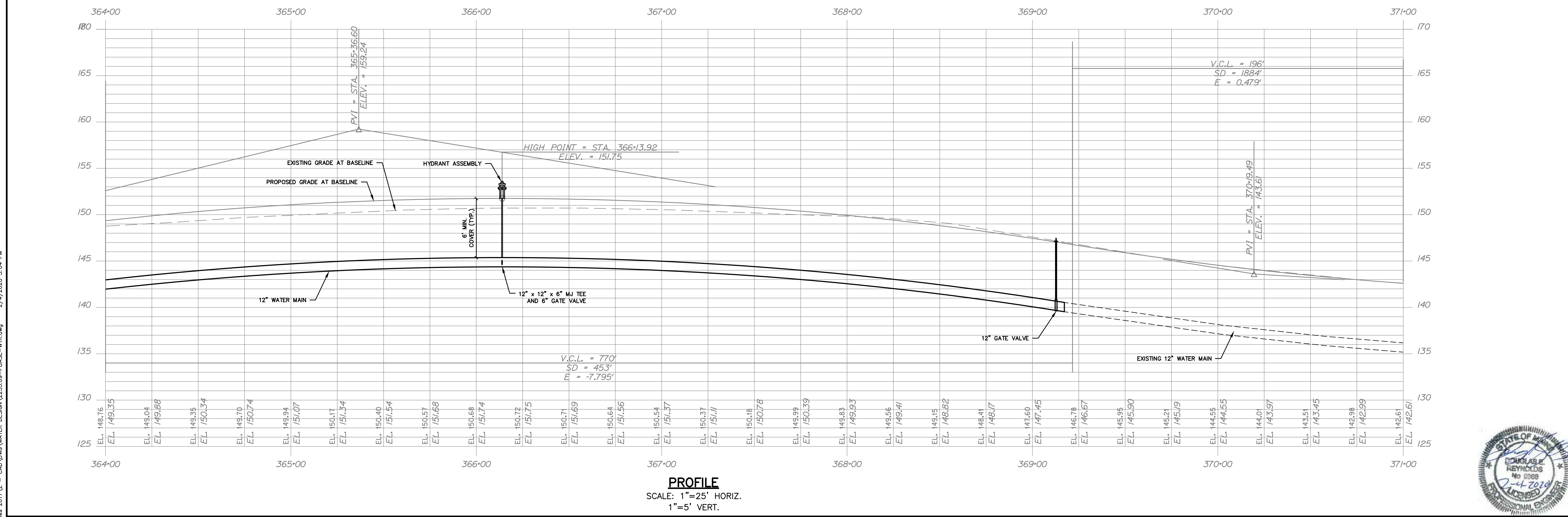
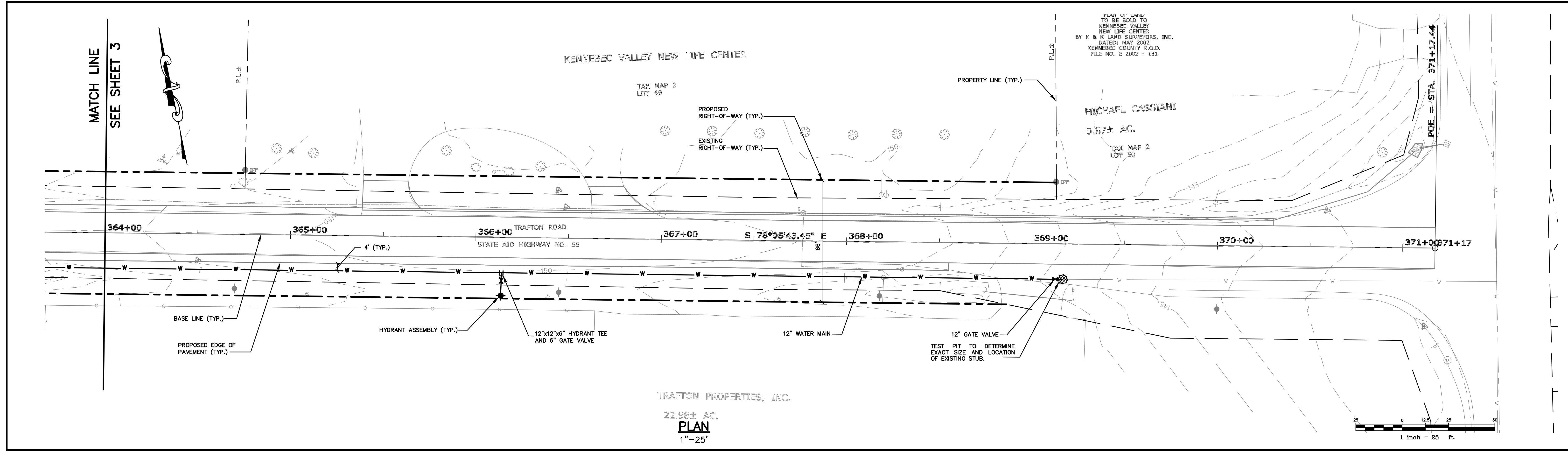


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Drawing Name:	Water Main Plan and Profile
Project:	Trafton Road Water Main Waterville, Maine
Client:	Kennebec Water District P.O. Box 356, 6 Cool Street, Waterville, ME 04903

Drawing No.
3

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Rev.	Date	Revision

BIDDING	Date	By
	02/04/20	DER

Design:	Draft:	Date:
DJV	LAN	AUG 2018
Checked:	Scale:	Job No.:
DER	1"=25'	2233.09
File Name: 2233.09-PBASE-WTR.dwg		
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Drawing No.
4