

CHANGE ORDER NO.: [Number of Change Order]

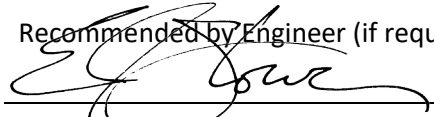
Owner:	City of New Meadows	Owner's Project No.:	
Engineer:	Mountain Waterworks, Inc.	Engineer's Project No.:	197.0010
Contractor:	TCG Construction, Inc.	Contractor's Project No.:	2205
Project:	Water System Improvements		
Contract Name:	City of New Meadows Water System Improvements Project		
Date Issued:		Effective Date of Change Order:	

The Contract is modified as follows upon execution of this Change Order:

Description: Installation of water distribution piping, valves, hydrants, and appurtenances as indicated on the attached construction drawings.

Attachments: Stamped construction drawings by Mountain Waterworks dated 1/19/2021 and backup documentation for increase in construction contract price provided by TCG Construction, Inc.

Change in Contract Price	Change in Contract Times
Original Contract Price: \$ <u>2,613,549.00</u>	Original Contract Times: 08/03/2022 – 09/30/2024 Substantial Completion: <u>09/30/2024</u> Ready for final payment: <u>10/31/2024</u>
Increase from previously approved Change Orders No. 1 to No. 4: \$ <u>38,672.85</u>	[Increase] [Decrease] from previously approved Change Orders No.1 to No. [Number of previous Change Order] : Substantial Completion: <u>No Change</u> Ready for final payment: _____
Contract Price prior to this Change Order: \$ <u>2,652,221.85</u>	Contract Times prior to this Change Order: Substantial Completion: _____ Ready for final payment: _____
Increase this Change Order: \$ <u>449,984.00</u>	[Increase] [Decrease] this Change Order: Substantial Completion: _____ Ready for final payment: _____
Contract Price incorporating this Change Order: \$ <u>3,102,205.85</u>	Contract Times with all approved Change Orders: Substantial Completion: _____ Ready for final payment: _____

By: <u></u>	Recommended by Engineer (if required)	Accepted by Contractor
Title: <u>Ed Stowe, P.E., Project Manager</u>		
Date: <u>4/05/2023</u>		
By: _____	Authorized by Owner	Approved by Funding Agency (if applicable)
Title: _____		
Date: _____		

ESTIMATE FOR CHANGE ORDER

PROJECT: City on New Meadows Water System Improvements

DATE: 3/30/23

JOB NO. 2205

CUSTOMER: City of New Meadows

REFERENCE: Bulletin No. _____ P.C.D. NO. _____ COR #4 _____ Field Change _____

DESCRIPTON: Distribution Piping Install

MATERIALS

Description	Unit	Unit Price	Subtotal
Distribution Piping	1	\$119,566.00	\$119,566.00
3/4"- Aggregate	75	\$33.00	\$2,475.00
Pipe Bedding - Fines	200	\$66.00	\$13,200.00
Misc - Plugs, Steel Plates etc. etc.	1	\$10,000.00	\$10,000.00
Traffic Control	1	\$5,000.00	\$5,000.00

TOTAL FOR MATERIALS \$150,241.00 (1)

LABOR

Classification	Hours	Wages Hour Rate	*Fringe Rate	(Fringe x Hrs)	(Wage x Hrs.)
Operator - 5 man crew x 6.5 weeks	1300	\$30.40	\$9.93	\$12,909.00	\$39,520.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				<u>\$12,909.00 (2)</u>	<u>\$39,520.00 (3)</u>

SUBTOTALS

*If requested, fringe benefit shall be indicated separately under each classification.

TOTAL FOR LABOR (Wages & Fringe) (2) + (3) \$52,429.00 (4)

SUBTOTAL - Materials & Labor (1) + (4) \$202,670.00 (5)

Overhead & Profit 15% of (5) \$30,400.50 (6)

Insurance & Taxes 27% of (4) \$14,155.83 (7)

Overhead for Insurance & Taxes (6%) of (7) \$849.35 (8)

TOTAL - MATERIALS & LABOR (5) + (6) + (7) + (8) \$248,075.68 (9)

EQUIPMENT / REIMBURSABLE COSTS (per diem, air fare, etc.)

Classification	Unit/Hours	Rate	Subtotal	Markup
See attached Equipment	1.00	\$78,213.00	\$78,213.00	\$11,731.95
Fuel	1.00	\$16,500.00	\$16,500.00	\$2,475.00
Per Diem-\$110/day/person	228.00	\$110.00	\$25,080.00	\$3,762.00
			\$0.00	\$0.00
			<u>\$0.00</u>	<u>\$0.00</u>

TOTAL FOR EQUIPMENT / REIMBURSABLE COSTS \$137,761.95 (10)

SUBCONTRACTORS

Allowed Mark-up: 10%

NAME	AMOUNT	Markup	Subtotal
Asphalt Repair	\$8,000.00	\$800.00	\$8,800.00
Testing & ACM Handling	\$40,000.00	\$4,000.00	\$44,000.00
		\$0.00	\$0.00
		\$0.00	\$0.00

TOTAL FOR SUBCONTRACTORS \$52,800.00 (11)

TOTAL (MATERIAL, LABOR, EQUIPMENT) (9) + (10) + (11) \$438,637.63 (12)

Bond Fee 1.5% on (12) (If Applicable) \$6,579.56 (13)

GL & Builder's Risk Insurance 1.200%

General Excise Tax on (9) + (10) + (13) + (11a) \$4,766.61 (14)

TOTAL FOR CHANGE ORDER (12) + (13) + (14) \$449,983.80

To nearest \$1.00 \$449,984

New Meadows Water System Improvements - REV 1.26.23

ITEM.2.21

6X4 Tapping Sleeve

Qty	UM	Description / Comments	Bid Price	Ext Price
1	EA	6 X 4 Stainless Steel Tapping Sleeve 6.60-7.00 Ductile Iron Flange	\$946.51	\$946.51
1	EA	4 FLG RW OL GATE VLV W/ H/WHL	\$715.33	\$715.33
2	EA	4 DOM 150# Stainless Steel 304 Bolt Kit With NUT	\$249.29	\$498.58
3	EA	4 Red Rubber 1/8 Full Face 150# Gasket	\$2.90	\$8.70
1	EA	16 Slip Valve Box TOP SECT DOM	\$101.85	\$101.85
1	EA	36 Slip Valve Box BOT SECT DOM	\$117.60	\$117.60
1	EA	TYLER Valve Box LID Water DOM	\$23.52	\$23.52
1	EA	4-8 LG HOT TAP CHG LABOR TO PERFORM 4" HOT TAP ON EXISTING 6" MAIN LINE	\$700.00	\$700.00

6X4 Tapping Sleeve: \$3,112.09

ITEM.2.21: \$3,112.09

ITEM.2.22

6X2 Saddle & Gate Valve

Qty	UM	Description / Comments	Bid Price	Ext Price
2	EA	6 X 2 Iron Pipe Single Stainless Steel Strap Saddle	\$78.56	\$157.12
2	EA	Lead Law Compliant 2 X 4 Brass Nipple GBL	\$23.57	\$47.14
2	EA	2 Threaded Resilient Wedge Open Left GATE Valve With NUT	\$517.85	\$1,035.70
2	EA	16 Slip Valve Box TOP SECT DOM	\$101.85	\$203.70
2	EA	36 Slip Valve Box BOT SECT DOM	\$117.60	\$235.20
2	EA	TYLER Valve Box LID Water DOM	\$23.52	\$47.04

6X2 Saddle & Gate Valve: \$1,725.90

ITEM.2.22: \$1,725.90

ITEM.2.23

2" Blow Off

Qty	UM	Description / Comments	Bid Price	Ext Price
2	EA	DOM 4 X 2 Mechanical Joint C153 IPT Tap on Pipe Cap Less Accessories	\$92.95	\$185.90
2	EA	4 GRIP RNG ACCY PK F/ DI/C900 304SS AIS	\$245.89	\$491.78
4	EA	Lead Law Compliant 2 X 8 Brass Nipple GBL	\$46.40	\$185.60
4	EA	2 Threaded Resilient Wedge Open Left GATE Valve With NUT	\$517.85	\$2,071.40
4	EA	2 X 12 Galvanized Steel Nipple	\$45.08	\$180.32
4	EA	2 Galvanized MI 150# 90 Elbow	\$26.00	\$104.00
4	EA	2 X 24 Galvanized Ready CUT Pipe Threaded Both Ends	\$91.15	\$364.60
4	EA	2 Stainless Steel 304 150# Thread Coupling	\$230.77	\$923.08
4	EA	16 Slip Valve Box TOP SECT DOM	\$101.85	\$407.40
4	EA	36 Slip Valve Box BOT SECT DOM	\$117.60	\$470.40
4	EA	TYLER Valve Box LID Water DOM	\$23.52	\$94.08

2" Blow Off: \$5,478.56

ITEM.2.23: \$5,478.56

New Meadows Water System Improvements - REV 1.26.23

ITEM.2.14 2" Water Line

Qty	UM	Description / Comments	Bid Price	Ext Price
600	C	2 X 300 SIDR7 HDPE Pipe Blue 200 #	\$325.00	\$1,950.00
1	EA	2 X 1000 Underground Detectable Water Blue	\$30.00	\$30.00
500	M	12 Gauge 500 FT Irrigation TRACER WIRE Blue	\$285.00	\$142.50
1	EA	5 # DRYTECH GRANULAR CHLR	\$25.00	\$25.00
2	EA	Lead Law Compliant 2 MIP X PE PJ Coupling	\$139.81	\$279.62
2	EA	Lead Law Compliant 2 FIP X PE PJ Coupling	\$126.82	\$253.64
4	EA	2 IPS Pep Insert Stfnr	\$5.29	\$21.16
2" Water Line:				<u>\$2,701.92</u>
ITEM.2.14:				<u>\$2,701.92</u>

ITEM.2.15 3/4" Water Service

Qty	UM	Description / Comments	Bid Price	Ext Price
14	EA	Service Total *****	\$0.00	\$0.00
7	EA	4 X 3/4 Iron Pipe Single Strap Saddle 4.50-4.80	\$62.48	\$437.36
3	EA	101N-H 2.38 X 3/4 IP F/ HDPE 2 AIS	\$120.62	\$361.86
4	EA	8 X 3/4 Iron Pipe Single Strap Saddle 8.63-9.05	\$79.75	\$319.00
14	EA	Lead Law Compliant 3/4 F1101-3-G-NL IPS Corporation ST	\$52.20	\$730.80
200	C	3/4 X 100 SIDR7 HDPE Pipe Blue 200 #	\$52.00	\$104.00
14	EA	Lead Law Compliant 3/4 C16-33-G-NL Coupling	\$25.01	\$350.14
56	EA	3/4 IPS Pep Insert Stfnr	\$2.56	\$143.36
14	EA	Lead Law Compliant 5/8 X 3/4 Motor SETTER	\$307.95	\$4,311.30
14	EA	20X24X48 FULL BARL	\$238.00	\$3,332.00
14	EA	26X2 INSUL PAD W/ HNDL	\$39.80	\$557.20
14	EA	FRM ONLY For X43	\$92.09	\$1,289.26
14	EA	X43L TOP LID	\$76.16	\$1,066.24
14	EA	Lead Law Compliant 3/4 PE X PE GJ Comp Coupling * Reconnect 3/4" Water Services	\$29.31	\$410.34
3/4" Water Service:				<u>\$13,412.86</u>
ITEM.2.15:				<u>\$13,412.86</u>

ITEM.2.17 8" Gate Valve

Qty	UM	Description / Comments	Bid Price	Ext Price
7	EA	8 Mechanical Joint X FL Ductile Iron Resilient Wedge Open Left GATE Valve Less Accessories	\$1,438.96	\$10,072.72
7	EA	8 GRIP RNG ACCY PK F/ DI/C900 304SS AIS	\$381.39	\$2,669.73
7	EA	16 Slip Valve Box TOP SECT DOM	\$101.85	\$712.95
7	EA	36 Slip Valve Box BOT SECT DOM	\$117.60	\$823.20
7	EA	TYLER Valve Box LID Water DOM	\$23.52	\$164.64
8" Gate Valve:				<u>\$14,443.24</u>
ITEM.2.17:				<u>\$14,443.24</u>

**New Meadows Water System
Improvements - REV 1.26.23**

**ITEM.2.24
Fire Hydrant**

Qty	UM	Description / Comments	Bid Price	Ext Price
20	FT	6 C900 DR18 PVC GJ Blue Pipe	\$13.59	\$271.80
1	EA	DOM 8 X 6 Mechanical Joint X Flange C153 Tee Less Accessories	\$344.09	\$344.09
1	EA	6 Mechanical Joint X Flanged Ductile Iron Resilient Wedge Open Left GATE Valve Less Accessories	\$920.84	\$920.84
1	EA	5-1/4 A423 Hydrant 5'0 6 Mechanical Joint Open Left Less Accessories RED.	\$3,318.91	\$3,318.91
2	EA	8 GRIP RNG ACCY PK F/ DI/C900 304SS AIS	\$381.39	\$762.78
2	EA	6 GRIP RNG ACCY PK F/ DI/C900 304SS AIS	\$358.45	\$716.90
1	EA	6 DOM 150# Stainless Steel 304 Bolt Kit With NUT	\$299.43	\$299.43
1	EA	6 Red Rubber 1/8 Full Face 150# Gasket	\$4.09	\$4.09
1	EA	16 Slip Valve Box TOP SECT DOM	\$101.85	\$101.85
1	EA	36 Slip Valve Box BOT SECT DOM	\$117.60	\$117.60
1	EA	TYLER Valve Box LID Water DOM	\$23.52	\$23.52
1	EA	12 X 12 X 3 Concrete Valve & Water Block	\$7.36	\$7.36
2	EA	6 X 6 X 24 HYD Block	\$11.07	\$22.14
			Fire Hydrant:	\$6,911.31
			ITEM.2.24:	\$6,911.31

**ITEM.2.25
Connect to Existing**

Qty	UM	Description / Comments	Bid Price	Ext Price
1	EA	DOM 8 X 6 Mechanical Joint C153 Reducer Less Accessories	\$166.24	\$166.24
1	EA	8 GRIP RNG ACCY PK F/ DI/C900 304SS AIS	\$381.39	\$381.39
1	EA	6 GRIP RNG ACCY PK F/ DI/C900 304SS AIS	\$358.45	\$358.45
			Connect to Existing:	\$906.08
			ITEM.2.25:	\$906.08

**ITEM.2.26
Non- Potable Water Crossing**

Qty	UM	Description / Comments	Bid Price	Ext Price
3	EA	8 BELL JT REST DI/C900 304SS AIS	\$780.81	\$2,342.43
60	FT	16 C905 DR25 CL165 PVC Gasket Joint Blue Pipe * 16" C905 Sleeve for 8" Water Main	\$66.10	\$3,966.00
20	FT	4 C900 DR18 PVC Gasket Joint Blue Pipe * 4" C900 Sleeve for 2" Water Main	\$6.64	\$132.80
9	EA	8x16 PX-SS CASING SPACER 304 AIS	\$53.12	\$478.08
6	EA	8x16 #W End Seal	\$88.00	\$528.00
7	EA	2x4 PS-SS Casing Spacer 304 AIS	\$14.55	\$101.85
2	EA	2x4 #W END SEAL	\$37.33	\$74.66
			Non- Potable Water Crossing:	\$7,623.82
			ITEM.2.26:	\$7,623.82

SUBTOTAL : 107,426.84
 5% CONT. : 5,371.32
 6% TAX : 8,767.89

TOTAL: \$119,566.05

Kaleo Nawahine

From: Rob Koester
Sent: Thursday, September 29, 2022 1:37 PM
To: Kaleo Nawahine; Riven Fenton
Subject: Fwd: Primary Screen Sand Pricing

Get [Outlook for iOS](#)

From: Kyle Hoch <khoch@premierllc.net>
Sent: Thursday, September 29, 2022 1:34 PM
To: Rob Koester <rob@thecoregroup.com>
Subject: Primary Screen Sand Pricing

Rob,

Thanks for the call today and below is the pricing for the Primary Screen Sand delivered to New Meadows:

\$57.97/Cubic Yard
This price includes material, delivery, and tax.

The Fuel Surcharge per yard rate is \$0.28/yard for every \$0.10 increase or decrease in diesel prices above a base index rate of \$3.50/gallon.

The fuel cost will be updated weekly based upon US Energy Information Administration (EIA) weekly diesel price Rocky Mountain Region (PADD 4). Diesel prices can be found at the following link: https://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r40_w.htm

Let me know if you have any questions.

Thanks,

Kyle Hoch
Sales Representative
Mobile: 208-484-9811
Phone: 208-901-8189 ext. 1



Aggregate
$$\frac{3/4'' - \$30/\text{yd}^3 \times 75 \text{ yd}^3 = \$2,250$$

SAND - $\$60/\text{yd}^3 \times 200 \text{ yd}^3 = \$12,000$



Meridian
500 E Overland Rd Meridian, ID 83642
208.884.2300

CUSTOMER NO.:

JOB SITE:

TCG Corporation
10063 W Lillywood Dr
Boise, ID 83709-5970

RENTAL AGREEMENT

NO.: RQ000027612

RENTAL START DATE: 08/30/2022 03:54pm

EST. RETURN DATE: 09/27/2022 03:54pm

EXPIRY DATE: 08/23/2022 12:00am

CUSTOMER PO:

JOB SITE CONTACT:

ORDERED BY: Robbie Koester

PHONE: 541-701-8244

WRITTEN BY: Pete J Nichols

SALES REP: Pete J Nichols

DELIVERY NOTES:

Boise Airport, Base Project
\$125 Each way on 305, Skid, water truck, roller, dozer
\$200 each way on 323, grader, 938
Rental Rep, Pete Nichols: 208-860-4054

RENTAL ITEMS

HOURS ALLOWED:

QUANTITY	ITEM DESCRIPTION	DAY (8)	WEEK (40)	4 WEEK (160)	
1	D3 DOZER (OLD D5)	\$550.00	\$1,995.00	\$5,580.00	
1	10 YD DUMP TRUCK	\$500.00	\$1,900.00	\$5,220.00	720
1	320-325 VIBRO COMP	\$225.00	\$920.00	\$2,750.00	
1	323 EXCAVATOR PG	\$700.00	\$2,660.00	\$7,650.00	
1	305 MINI EXCAVATOR	\$350.00	\$1,045.00	\$2,970.00	x 2 905
1	305 VIBRO COMPACTOR	\$75.00	\$230.00	\$695.00	925
1	12 AWD MOTORGRADER	\$1,125.00	\$3,185.00	\$9,000.00	
1	66" SMOOTH ROLLER	\$450.00	\$1,710.00	\$4,860.00	
1	259 CTL	\$325.00	\$1,045.00	\$2,970.00	
1	4000 WATER TRUCK	\$550.00	\$2,000.00	\$6,000.00	8000
1	938 WHEEL LOADER	\$600.00	\$2,280.00	\$6,480.00	8760

MISCELLANEOUS ITEMS

Transport Fuel Surcharge

Skid steer ~~by~~ SWEEPER ⇒ \$3450
 4 WEEKS + 2 WEEKS ⇒ \$192.00 + \$2050 = \$5500
 33860
 w/ tax ⇒ 25913

VAC TRUCK ⇒ 2 WEEKS ⇒ \$24,000

COMPACTOR EQUIPMENT ⇒ 500/wk x 6 weeks
 = 3,000

Steel Plates ⇒ 2k

FREIGHT: \$900/trip x 8 trips = \$7200

TOTAL ⇒ \$78,213

AVERAGE FUEL CONSUMPTION

2 gallons/hr/pre-depart
 x \$5/gallon = \$16,500

x 1650 hrs

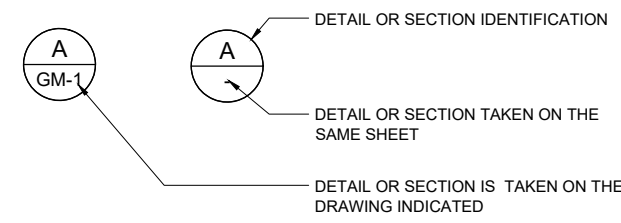
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LINE LEGEND

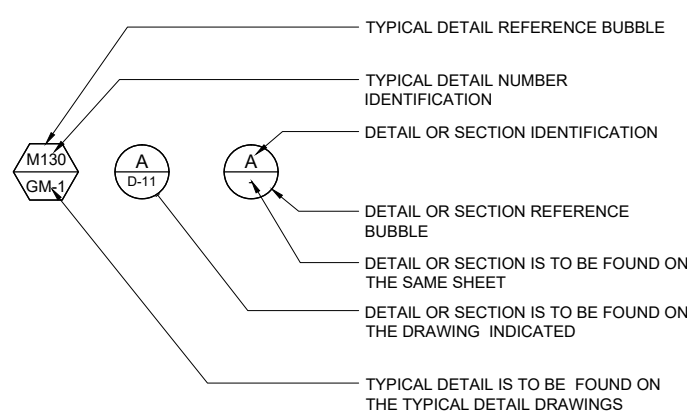
SECTION LINE	---
QUARTER SECTION LINE	---
EXISTING DEED OR LOT LINE	---
CENTERLINE	---
RIGHT OF WAY	---
EASEMENT	---
EXISTING BUILDING	///
EDGE OF CONCRETE	---
ROAD CUT (PROPOSED)	---
ROAD FILL (PROPOSED)
FIBER OPTIC (EXISTING)	---UGFO---
FIBER OPTIC (PROPOSED)	---UGFO---
PRESSURE SEWER (EXISTING)	---PS---
PRESSURE SEWER (PROPOSED)	---PS---

	EXISTING	PROPOSED/NEW
EDGE OF PAVEMENT	---EP---	---EP---
EDGE OF GRAVEL	---EG---	---EG---
TOP OF BANK	---TB---	---TB---
TOE OF SLOPE	---TOE---	---TOE---
SEWER LINE	---SS---	---SS---
SERVICE (WATER,GAS)	---	---
UNDERGROUND GAS LINE	---G---	---G---
WATER LINE	---W---	---W---
PRESSURE IRRIGATION LINE	---PIRR---	---PIRR---
GRAVITY IRRIGATION LINE	---IRR---	---IRR---
FLOW LINE	---<---	---<---
STORM DRAIN	---SD---	---SD---
OVERHEAD POWER	---OHP---	---OHP---
UNDERGROUND POWER	---UP---	---UP---
UNDERGROUND TELEPHONE	---UT---	---UT---

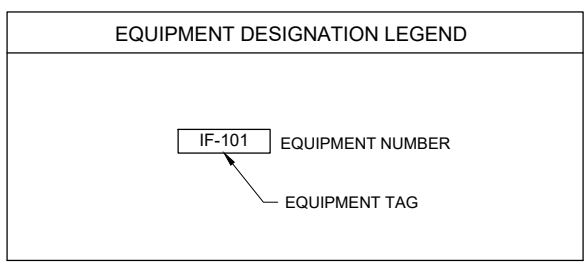
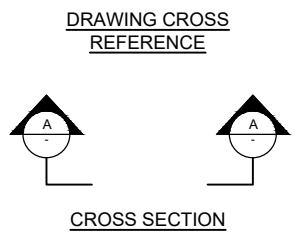
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EXISTING CHAIN LINK FENCE	---o---o---o---o---o---o---o---
EXISTING BOARD FENCE	---□---□---□---□---□---
EXISTING WIRE FENCE	---x---x---x---x---x---
EXISTING 1' CONTOUR	---2601---
PROPOSED 1' CONTOUR	---2601---
EXISTING 5' CONTOUR	---2600---
PROPOSED 5' CONTOUR	---2600---
EXISTING DRAINAGE PIPE	---
EXISTING BEDROCK	---
FIBER WATTLES	---o---o---o---
PROPOSED SILT FENCE	---s---s---s---s---



AT TITLE



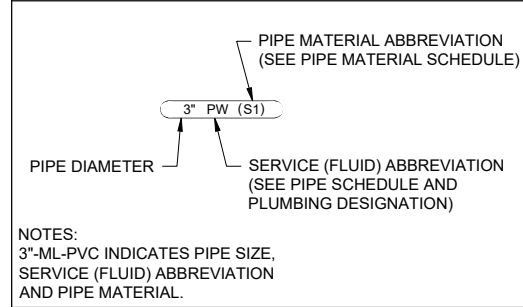
AT CROSS REFERENCE



PIPE MATERIAL SCHEDULE

ABBREV.	SERVICE	FITTINGS
D1	DUCTILE IRON, AWWA C115, RESTRAINED	DUCTILE IRON, AWWA C110, CL 150
D2	DUCTILE IRON, AWWA C115, RESTRAINED, LEAN CONCRETE ENCASED & POLYETHYLENE WRAPPED	DUCTILE IRON, AWWA C110, CL 150
D3	DUCTILE IRON, AWWA C150/151, RESTRAINED, POLYETHYLENE WRAPPED	DUCTILE IRON, AWWA C110, CL 150
P1	POLYVINYL CHLORIDE, SCH 80	POLYVINYL CHLORIDE, SOLVENT WELD SOCKET
P3	POLYVINYL CHLORIDE, SDR 35, ASTM 3034	POLYVINYL CHLORIDE, SDR 35 ASTM 3034
P4	POLYVINYL CHLORIDE, AWWA C900, DR 18	DUCTILE IRON, AWWA C110, CL 150
P5	POLYVINYL CHLORIDE, SDR 35, ASTM 3034 LEAN CONCRETE ENCASED	POLYVINYL CHLORIDE, SDR 35 ASTM 3034
P6	HDPE SIDR 7/PE 4710, PC 250, AWWA C901/ASTM D3035	HDPE, FUSED, OR COMPRESSION FITTINGS WITH STIFFENERS

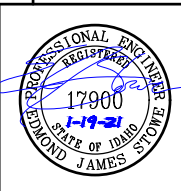
PIPE DESIGNATION LEGEND



PIPE SCHEDULE

ABBREV.	SERVICE	TEST METHOD	TEST PRESSURE (PSI)
CON	CONDUIT	AM	5
DR	DRAIN	GR	5
PW	POTABLE WATER	HH	150
SD	STORM DRAIN	GR	6.5

NO.	REVISION	BY	DATE	DESIGN

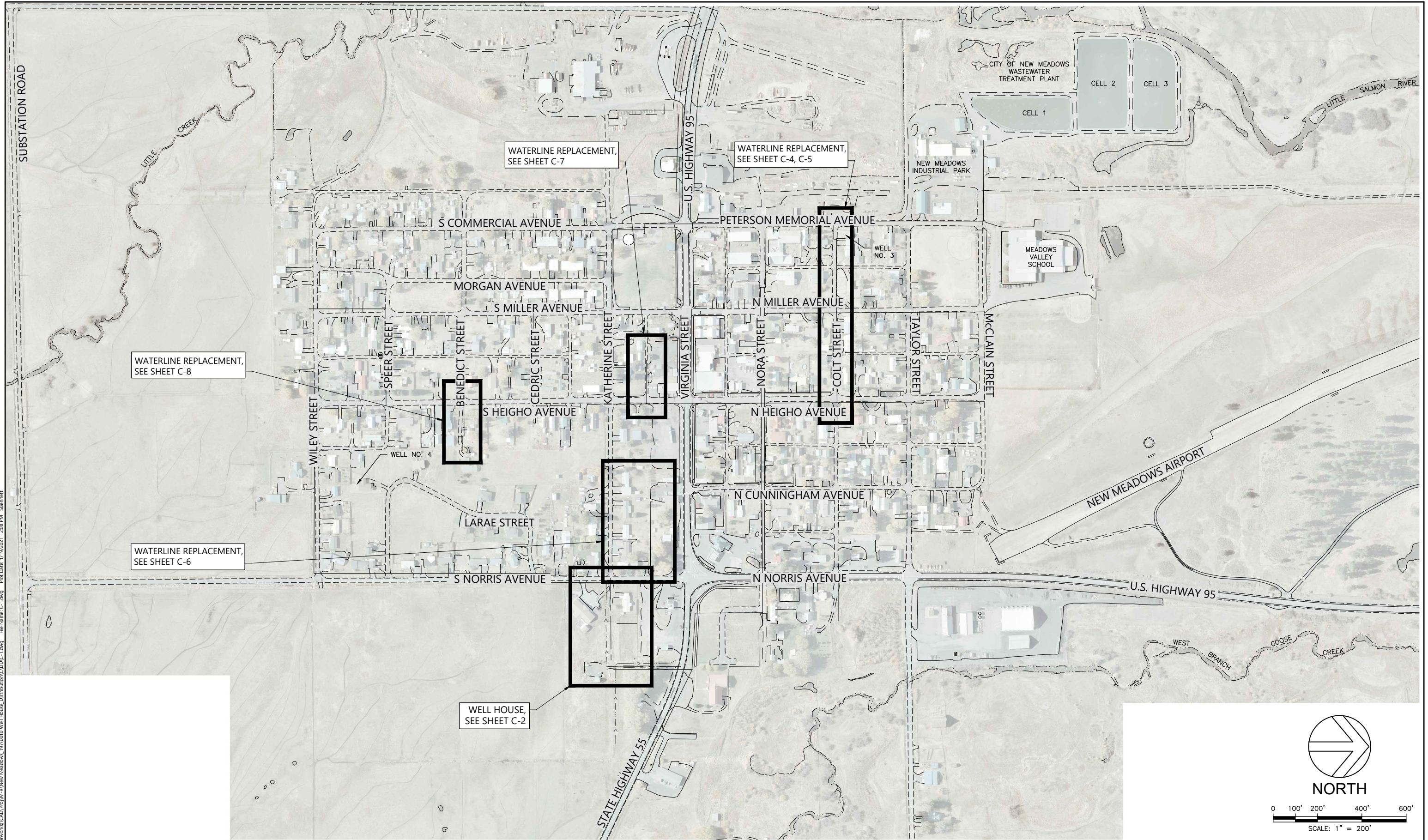


ENGINEERING AND ENVIRONMENTAL SOLUTIONS
 1161 W RIVER ST, STE 130
 BOISE, IDAHO 83702
 208.780.3990
 IDAHO OFFICES
 BOISE · LEWISTON · COEUR D'ALENE

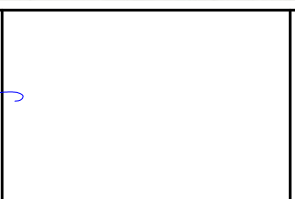
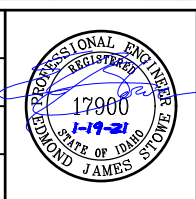
CITY OF NEW MEADOWS
 WATER SYSTEM IMPROVEMENTS PROJECT
 NEW MEADOWS, IDAHO
 LINE LEGEND AND PIPE SCHEDULE

VERIFY SCALE	BAR IS ONE INCH ON FULL SIZE DRAWING 1"
PROJECT	197.0010.01
DATE	8/6/2019
DRAWING NO.	G-3

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CITY OF NEW MEADOWS
WATER SYSTEM IMPROVEMENTS PROJECT
 NEW MEADOWS, IDAHO
 KEY MAP

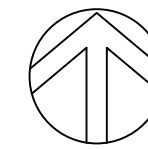
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DATE	8/6/2019
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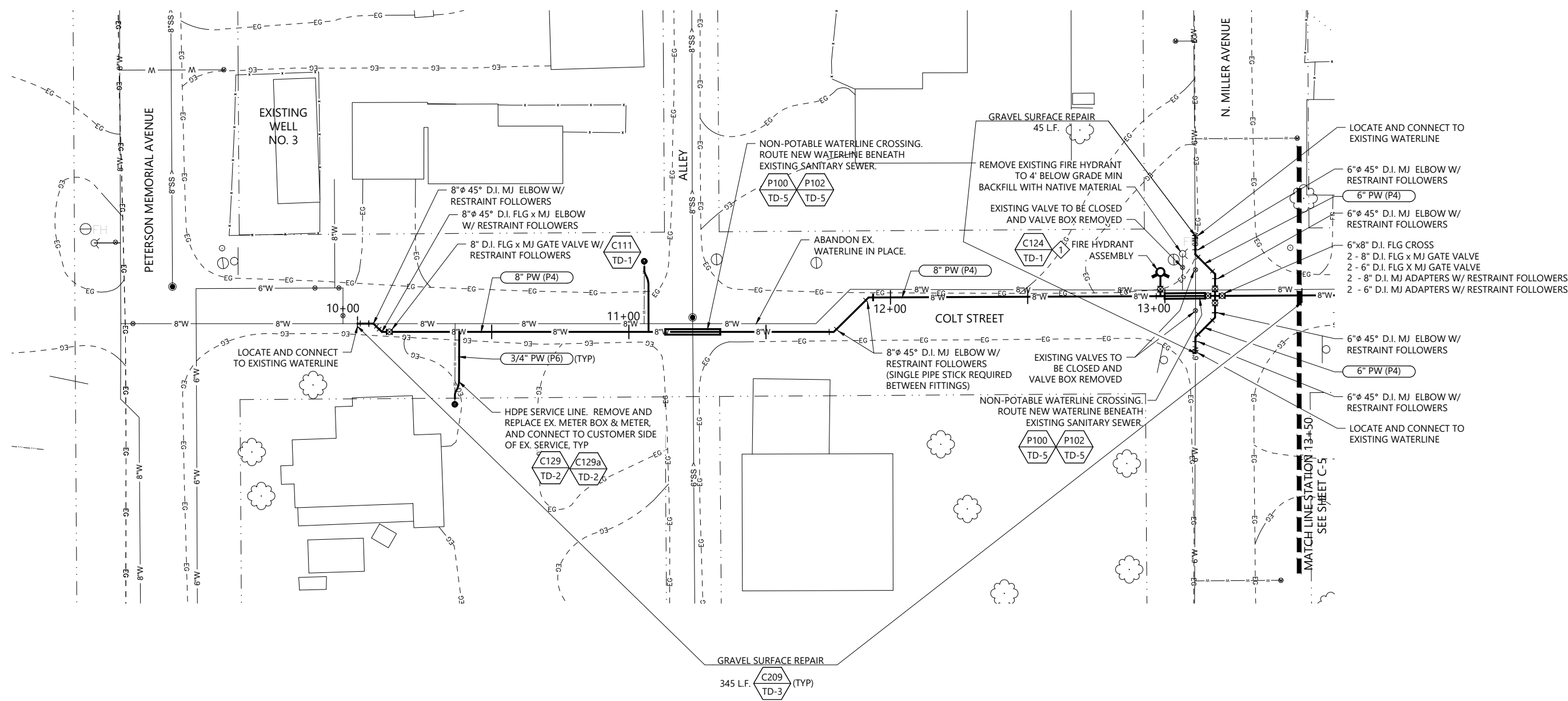
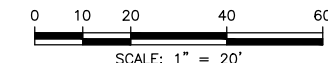
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- CONNECTIONS TO EXISTING WATER LINE TO UTILIZE EPOXY COATED COUPLER AND WILL BE MEASURED AND PAID FOR ON A PER EACH BASIS.
- CONTRACTOR USING PIPE RESTRAINT FOLLOWERS SHOULD ANTICIPATE THE USE OF BELL CLAMP RESTRAINTS TO ACHIEVE ADEQUATE RESTRAINT LENGTH.

KEY NOTE #

- FIRE HYDRANT PROVIDED BY CITY. INSTALLED BY CONTRACTOR. VALVE, FITTING, AND LEAD PIPE BY CONTRACTOR.



NORTH



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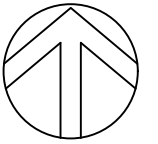
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CITY OF NEW MEADOWS
WATER SYSTEM IMPROVEMENTS PROJECT
 NEW MEADOWS, IDAHO
 COLT STREET

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PROJECT	197.0010.01
DATE	8/6/2019
DRAWING NO.	C-4

GENERAL NOTES:

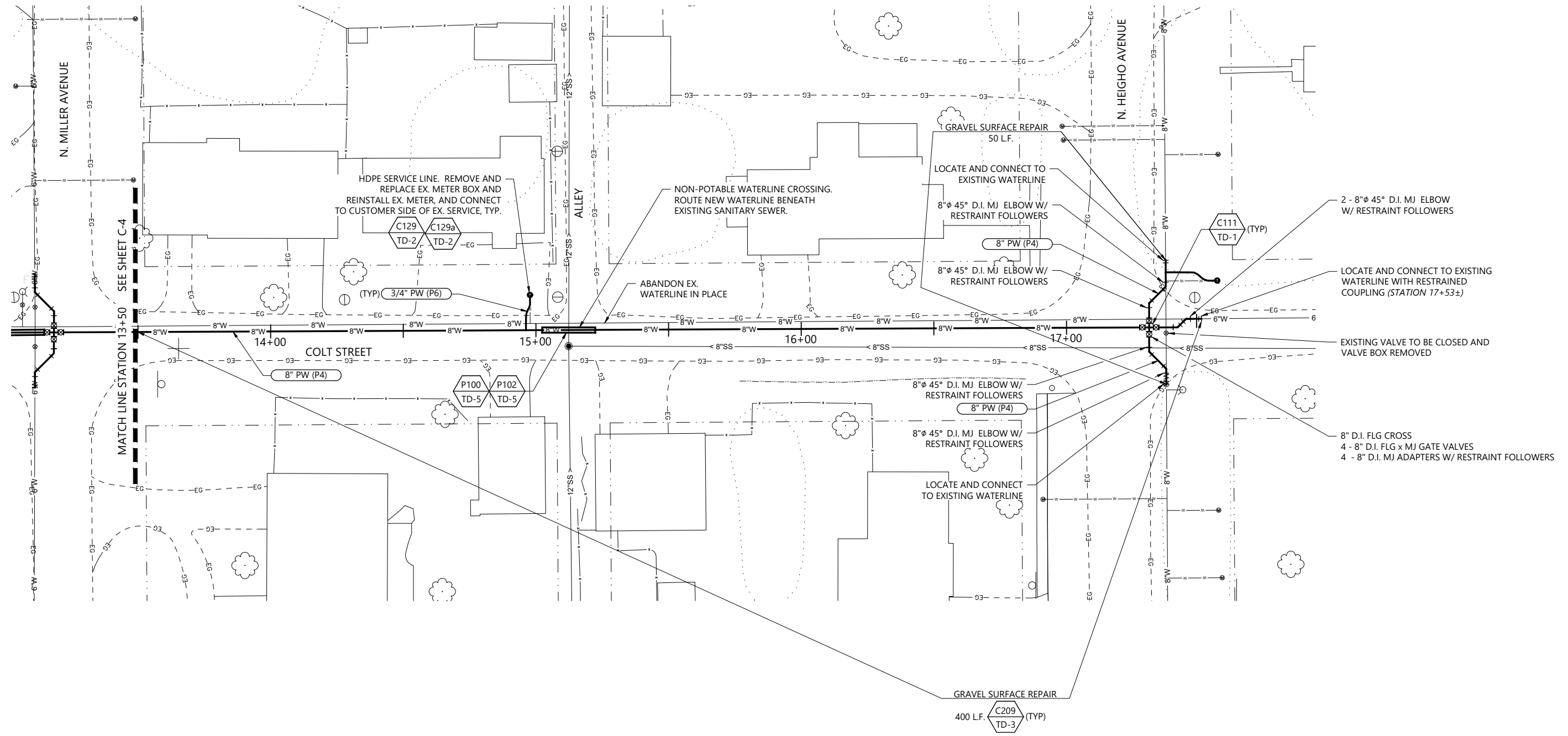
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- CONNECTIONS TO EXISTING WATER LINE TO UTILIZE EPOXY COATED COUPLER AND WILL BE MEASURED AND PAID FOR ON A PER EACH BASIS.
- CONTRACTOR USING PIPE RESTRAINT FOLLOWERS SHOULD ANTICIPATE THE USE OF BELL CLAMP RESTRAINTS TO ACHIEVE ADEQUATE RESTRAINT LENGTH.



NORTH



SCALE: 1" = 20'



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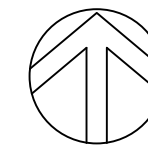
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WATER SYSTEM IMPROVEMENTS PROJECT
 NEW MEADOWS, IDAHO
 COLT STREET

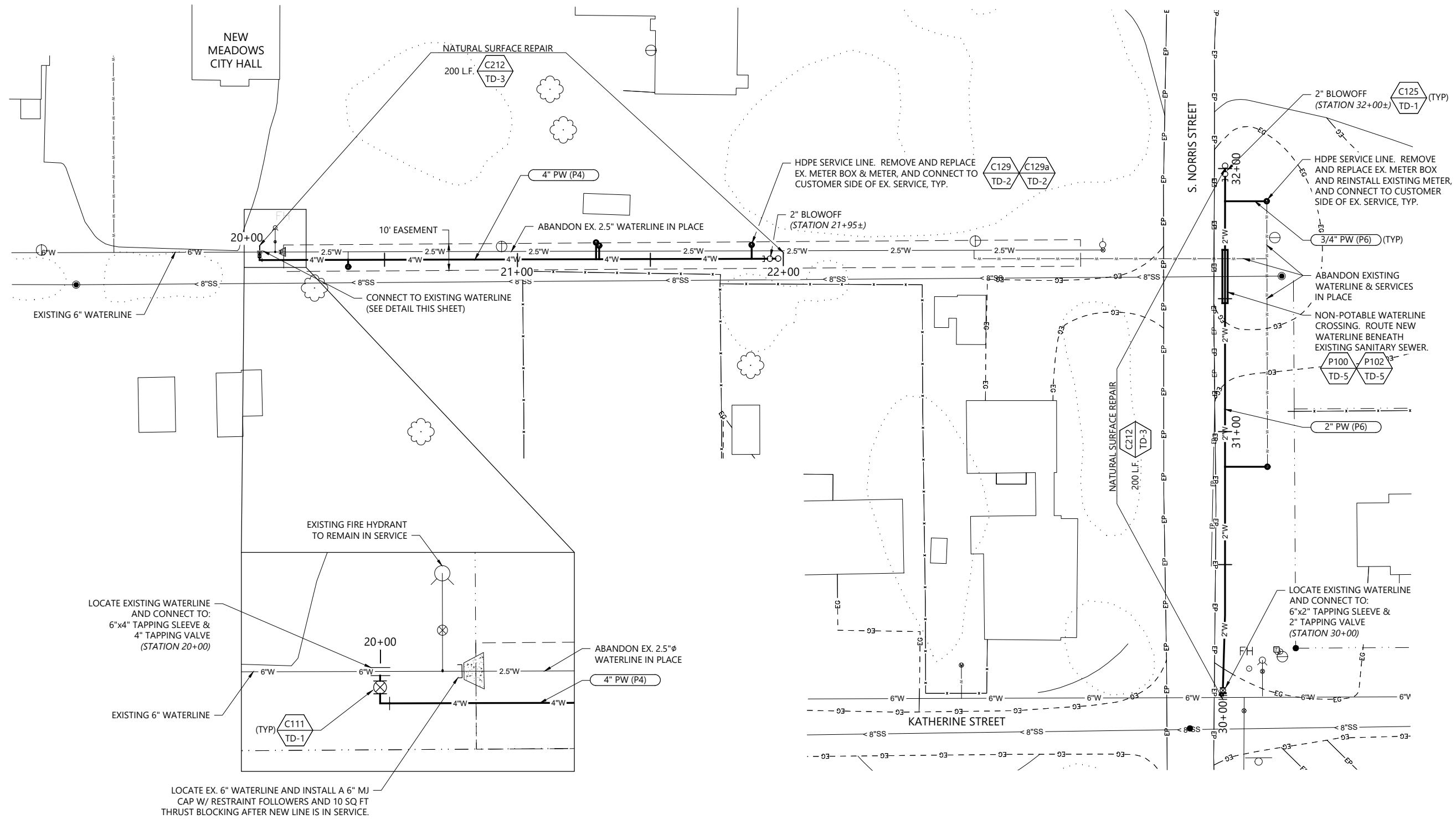
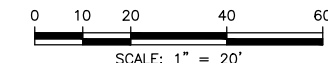
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PROJECT	197.0010.01
DATE	8/6/2019
DRAWING NO.	C-5

GENERAL NOTES:

- EXISTING WATERLINE TO REMAIN IN SERVICE UNTIL NEW LINE HAS PASSED PRESSURE AND BACTERIAL TESTS.
- CONNECTIONS TO EXISTING WATER LINE TO UTILIZE EPOXY COATED COUPLER AND WILL BE MEASURED AND PAID FOR ON A PER EACH BASIS.
- CONTRACTOR USING PIPE RESTRAINT FOLLOWERS SHOULD ANTICIPATE THE USE OF BELL CLAMP RESTRAINTS TO ACHIEVE ADEQUATE RESTRAINT LENGTH.

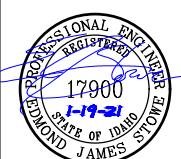


NORTH



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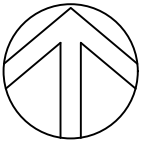
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CITY OF NEW MEADOWS
WATER SYSTEM IMPROVEMENTS PROJECT
 NEW MEADOWS, IDAHO
 ALLEY SOUTH OF CITY HALL

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PROJECT	197.0010.01
DATE	8/6/2019
DRAWING NO.	C-6

GENERAL NOTES:

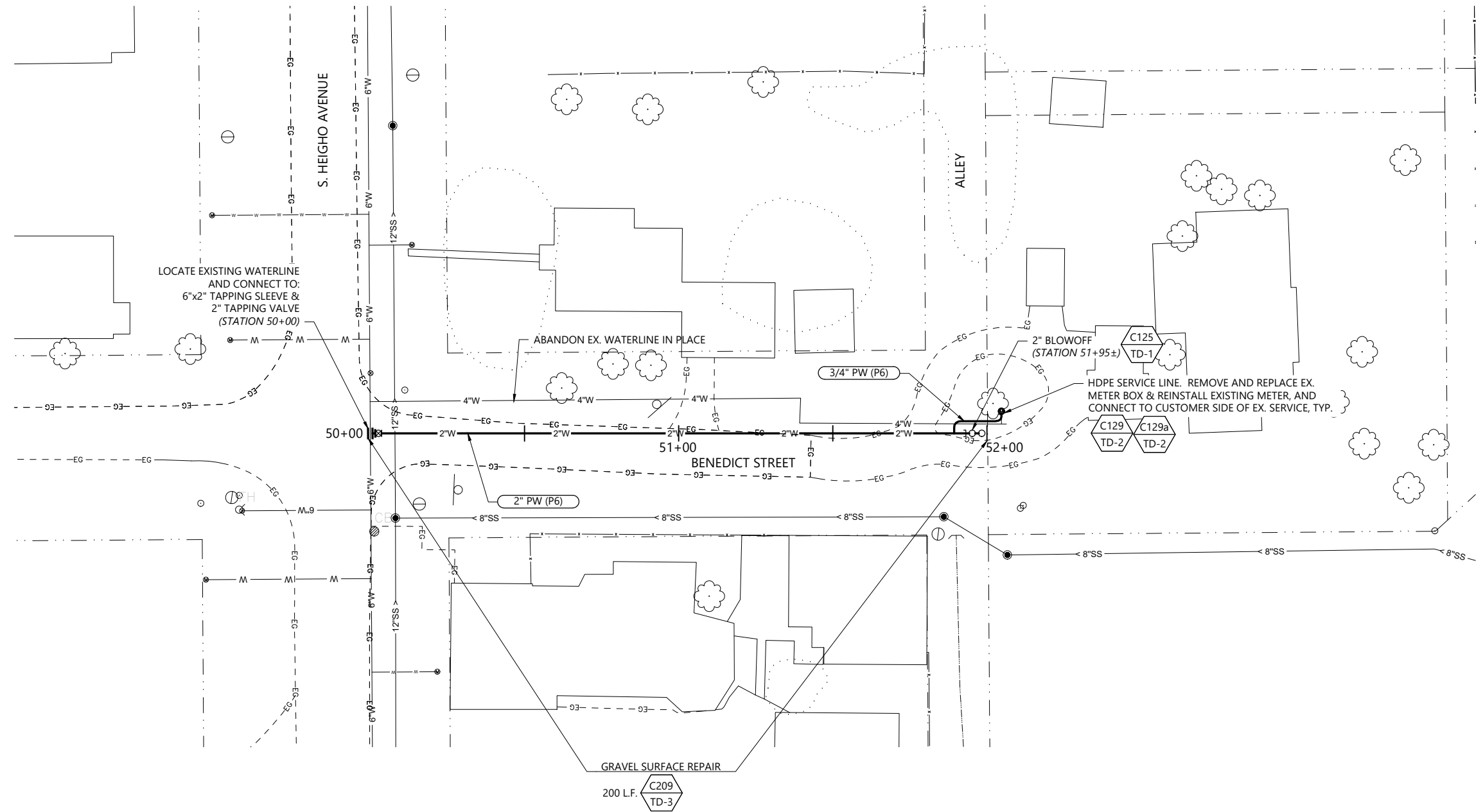
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- CONNECTIONS TO EXISTING WATER LINE TO UTILIZE EPOXY COATED COUPLER AND WILL BE MEASURED AND PAID FOR ON A PER EACH BASIS.
- CONTRACTOR USING PIPE RESTRAINT FOLLOWERS SHOULD ANTICIPATE THE USE OF BELL CLAMP RESTRAINTS TO ACHIEVE ADEQUATE RESTRAINT LENGTH.



NORTH

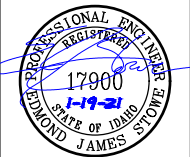


SCALE: 1" = 20'



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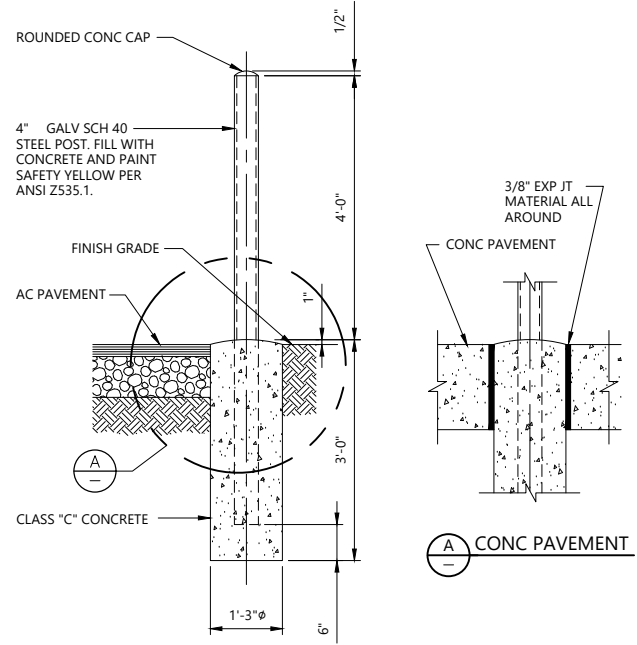
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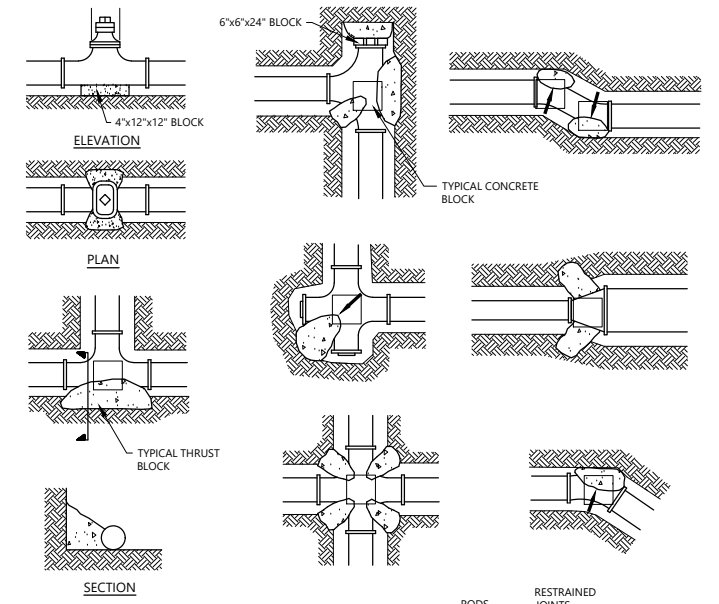
CITY OF NEW MEADOWS
WATER SYSTEM IMPROVEMENTS PROJECT
 NEW MEADOWS, IDAHO
 BENEDICT STREET

VERIFY SCALE	BAR IS ONE INCH ON FULL SIZE DRAWING 1"
PROJECT	197.0010.01
DATE	8/6/2019
DRAWING NO.	C-8



AC PAVEMENT AND FINISH GRADE

C102 BOLLARD
TYP NOT TO SCALE



C110 THRUST BLOCKS
TYP NOT TO SCALE

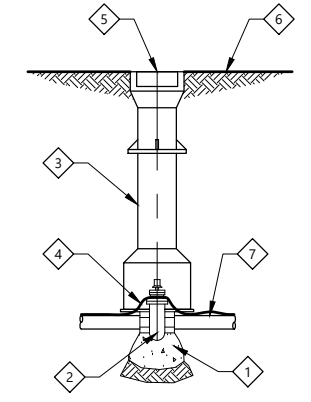
TABLE 1
THRUST AREA FOR HORIZONTAL BENDS***

SOIL BEARING PRESSURE = 2000 PSF
WORKING PRESSURE RATING = 150 PSI
SAFETY FACTOR = 1.5

PIPE SIZE	TEE, PLUG OR VALVE	90° BEND**	45° BEND	22.5°, 11.25° BENDS OR REDUCER
3	0.8	1.1	0.6	0.3
4	1.4	2.0	1.1	0.6
6	3.2	4.5	2.4	1.2
8	5.7	8.0	4.3	2.2
10	8.8	12.5	6.8	3.4
12	12.7	18.0	9.7	5.0
14	17.3	24.5	13.3	6.8
16	22.6	32.0	17.3	8.8
18	28.6	40.5	21.9	11.2

* MUST BE INCREASED BASED ON DIFFERENT CONDITIONS (HIGHER WORKING PRESSURE OR LOWER SOIL BEARING STRENGTH).
** OR TEE ACTING AS A 90° BEND
*** THRUST BLOCK DEPTH TO BE A MINIMUM OF 12" FOR PIPE SIZES 3"-8" AND 18" FOR PIPE SIZES 10"-18" OR THE SQUARE ROOT OF THE REQUIRED BEARING AREA, WHICHEVER IS GREATER.

GENERAL NOTES:
1. ALL CONCRETE SHALL HAVE A MINIMUM TWENTY-EIGHT(28) DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 2500 PSI.
2. THRUST BLOCKING SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE ANCHORED.
3. THRUST BLOCKING SHALL BE PLACED SO THAT THE PIPE AND FITTING JOINTS WILL BE ACCESSIBLE TO REPAIRS.
4. ALL FITTINGS SHALL HAVE A 12"x12"x4" CONCRETE SUPPORT BLOCK.
5. WRAP BOLTS, FLANGES, AND FITTINGS WITH 6 MIL POLYPROPYLENE TO PROTECT FROM CONCRETE ADHERENCE DURING INSTALLATION OF THRUST BLOCKS.

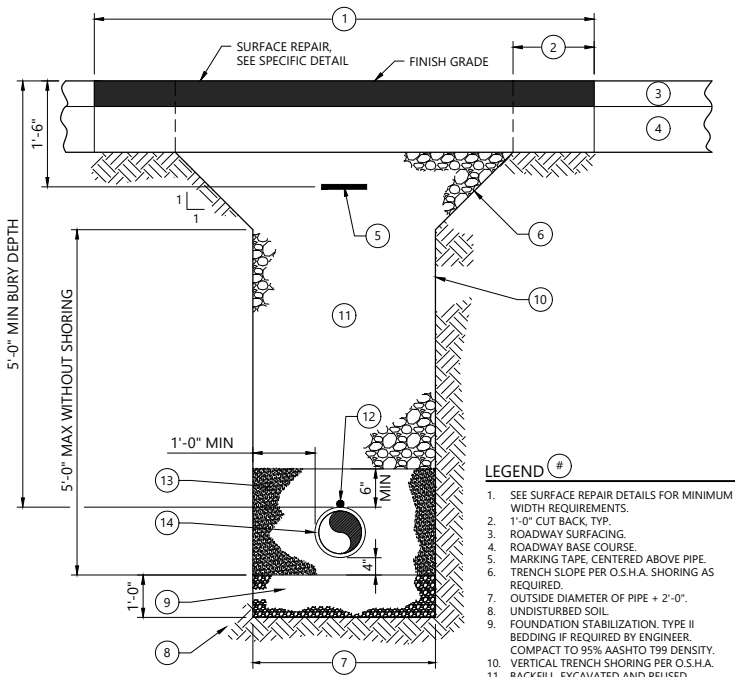


STANDARD VALVE BOX DETAIL
NOT TO SCALE

NOTES:
A. ALL VALVES TO BE LOCATED AT THE WATER MAIN AS SHOWN ON THE PLAN SHEET OR AS DIRECTED BY THE ENGINEER. WHERE EXISTING FITTINGS ARE NOT COMPATIBLE WITH NEW MAIN CONSTRUCTION, USE SUITABLE ADAPTERS OR NEW FITTINGS UPON APPROVAL BY THE ENGINEER.
B. ALL ANCHORS AND BLOCKING TO BEAR AGAINST UNDISTURBED SOIL.
C. PLACE LOCATOR WIRE DIRECTLY ABOVE PIPE. SECURE FINDER WIRE UNDER (M) BOLT AT MAIN.
D. JOINT RESTRAINT DEVICES MAY BE USED AS AN ALTERNATE TO THRUST BLOCK WITH ENGINEER'S APPROVAL.

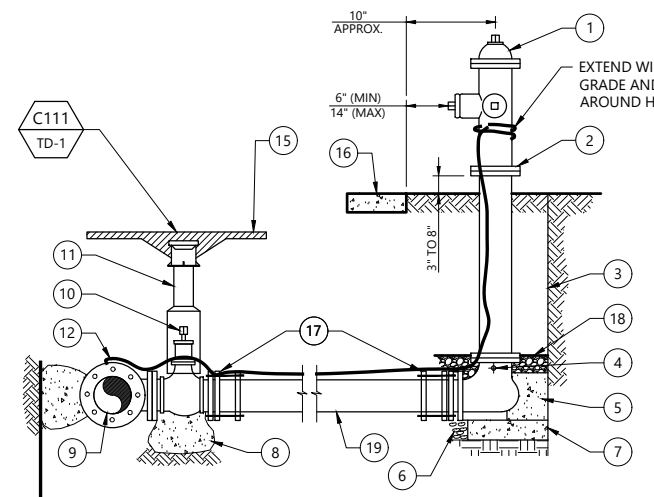
LEGEND #
1. VALVE SUPPORT (PRECAST OR CAST IN PLACE).
2. GATE OR PLUG VALVE. SIZE, TYPE, MATERIAL, AND END CONNECTIONS AS INDICATED ON CIVIL PLANS.
3. CAST IRON VALVE BOX, TYLER NO. 6855 OR EQUAL.
4. NO. 12 AWG. COPPER WIRE FINDER.
5. 1/4" STANDARD VALVE BOX LID, TYLER NO. 6855 OR EQUAL.
6. FINISHED GRADE.
7. WATER MAIN PIPE.

C111a VALVE BOX AND LID DETAIL
TYP NOT TO SCALE



C117 TRENCH DETAIL - WATER
TYP NOT TO SCALE

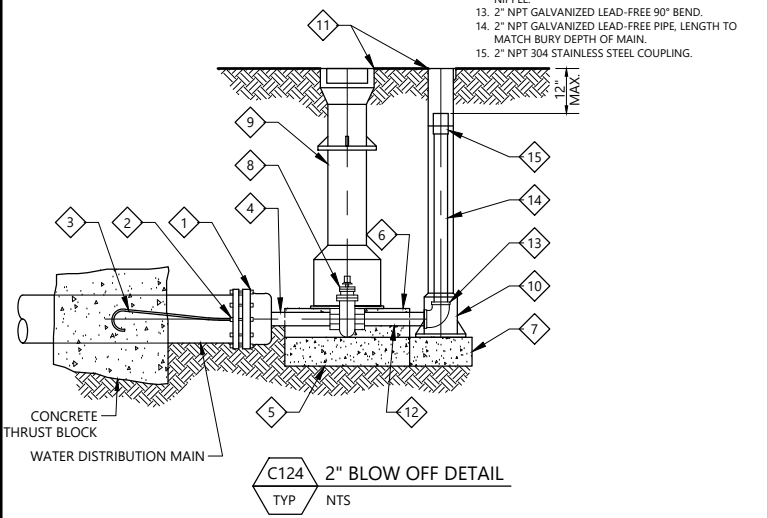
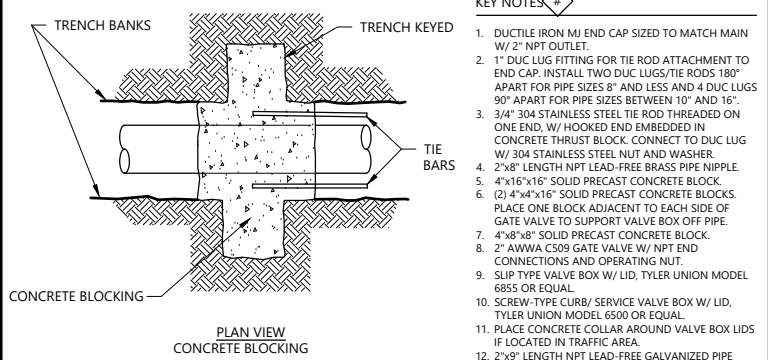
LEGEND #
1. SEE SURFACE REPAIR DETAILS FOR MINIMUM WIDTH REQUIREMENTS.
2. 1'-0" CUT BACK, TYP.
3. ROADWAY SURFACING.
4. ROADWAY BASE COURSE.
5. MARKING TAPE CENTERED ABOVE PIPE.
6. TRENCH SLOPE PER O.S.H.A. SHORING AS REQUIRED.
7. OUTSIDE DIAMETER OF PIPE + 2'-0".
8. UNDISTURBED SOIL.
9. FOUNDATION STABILIZATION, TYPE II BEDDING IF REQUIRED BY ENGINEER.
10. COMPACT TO 95% AASHTO T99 DENSITY.
11. VERTICAL TRENCH SHORING PER O.S.H.A. BACKFILL EXCAVATED AND REUSED MATERIAL. PLACE IN 0'-8" MAXIMUM LIFTS. COMPACT TO 95% AASHTO T99 DENSITY.
12. NO. 12 AWG COPPER LOCATING WIRE WITH INSULATION. TAPE TO TOP OF PIPE.
13. PIPE BEDDING, TYPE I. COMPACT TO 95% AASHTO T-99 DENSITY.
14. PIPE SIZE, TYPE, AND CLASS AS IDENTIFIED ON THE DRAWINGS.



C124 FIRE HYDRANT INSTALLATION
TYP NOT TO SCALE

NOTES:
A. HYDRANTS THAT ARE TO BE RELOCATED AS CALLED FOR ON THE PLAN VIEW SHALL BE REINSTALLED IN ACCORDANCE WITH THIS DETAIL. LOCATION TO BE SET IN ACCORDANCE WITH LOCAL STANDARDS OR AS DIRECTED BY THE ENGINEER.
B. ALL AUXILIARY VALVES TO BE LOCATED AT THE TEE ON THE WATER MAIN AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER. WHERE EXISTING FITTINGS ARE NOT COMPATIBLE WITH NEW MAIN CONSTRUCTION, USE SUITABLE ADAPTERS OR NEW FITTINGS UPON APPROVAL BY THE ENGINEER.
C. ALL ANCHORS AND BLOCKING TO BEAR AGAINST UNDISTURBED SOIL.
D. NOT USED.
E. PLACE LOCATOR WIRE DIRECTLY ABOVE PIPE. SECURE FINDER WIRE UNDER (M) BOLT AT MAIN.
F. JOINT RESTRAINT DEVICES MAY BE USED AS AN ALTERNATE TO THRUST BLOCK WITH ENGINEER'S APPROVAL.

LEGEND #
1. FIRE HYDRANT, MUELLER SUPER CENTURION 250 MODEL A423.
2. BREAK AWAY BOLTS.
3. END OF TRENCH, EDGE OF RIGHT-OF-WAY.
4. DRAIN - KEEP CLEAR.
5. CAST IN PLACE CONCRETE THRUST BLOCK (4 SQ. FT. OF THRUST BLOCK REQUIRED) (SEE NOTE D).
6. 1" DRAIN ROCK EXTENDS 12" HORIZONTALLY FROM EACH SIDE OF CONCRETE BASE AND THRUST BLOCK AND VERTICALLY TO 2" ABOVE HYDRANT DRAIN WALL.
7. PRECAST CONCRETE BLOCK 1' X 1' X 6" THICK.
8. VALVE SUPPORT (PRECAST OR CAST IN PLACE).
9. DI TEE (MJ X MJ X FLG) WITH THRUST BLOCKS.
10. 6" C.I. AUXILIARY VALVE (MJ X FLG).
11. CAST IRON VALVE BOX.
12. NO. 12 AWG. COPPER WIRE FINDER. SEE SD-514 FOR SPlicing (SEE NOTE E).
13. NOT USED.
14. NOT USED.
15. FINISHED GRADE.
16. SIDEWALK.
17. RESTRAINED MECHANICAL CONNECTION, ROMAC ROMAGRIP OR APPROVED EQUAL.
18. COVER DRAIN ROCK WITH FILTER FABRIC.
19. 6" C900 DR18 PVC PIPE.

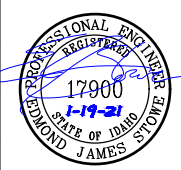


C124 2" BLOW OFF DETAIL
TYP NTS

KEY NOTES #
1. DUCTILE IRON MJ END CAP SIZED TO MATCH MAIN W/ 2" NPT OUTLET.
2. 1" DUC LUG FITTING FOR TIE ROD ATTACHMENT TO END CAP. INSTALL TWO DUC LUGS/TIE RODS 180° APART FOR PIPE SIZES 8" AND LESS AND 4 DUC LUGS 90° APART FOR PIPE SIZES BETWEEN 10" AND 16".
3. 3/4" 304 STAINLESS STEEL TIE ROD THREADED ON ONE END, W/ HOOKED END EMBEDDED IN CONCRETE THRUST BLOCK. CONNECT TO DUC LUG W/ 304 STAINLESS STEEL NUT AND WASHER.
4. 2"x8" LENGTH NPT LEAD-FREE BRASS PIPE NIPPLE.
5. 4"x16"x16" SOLID PRECAST CONCRETE BLOCK.
6. (2) 4"x4"x16" SOLID PRECAST CONCRETE BLOCKS. PLACE ONE BLOCK ADJACENT TO EACH SIDE OF GATE VALVE TO SUPPORT VALVE BOX OFF PIPE.
7. 4"x8"x8" SOLID PRECAST CONCRETE BLOCK.
8. 2" AWWA C509 GATE VALVE W/ NPT END CONNECTIONS AND OPERATING NUT.
9. SLIP TYPE VALVE BOX W/ LID, TYLER UNION MODEL 6855 OR EQUAL.
10. SCREW-TYPE CURB/ SERVICE VALVE BOX W/ LID, TYLER UNION MODEL 6500 OR EQUAL.
11. PLACE CONCRETE COLLAR AROUND VALVE BOX LIDS IF LOCATED IN TRAFFIC AREA.
12. 2"x9" LENGTH NPT LEAD-FREE GALVANIZED PIPE NIPPLE.
13. 2" NPT GALVANIZED LEAD-FREE 90° BEND.
14. 2" NPT GALVANIZED LEAD-FREE PIPE LENGTH TO MATCH BURY DEPTH OF MAIN.
15. 2" NPT 304 STAINLESS STEEL COUPLING.

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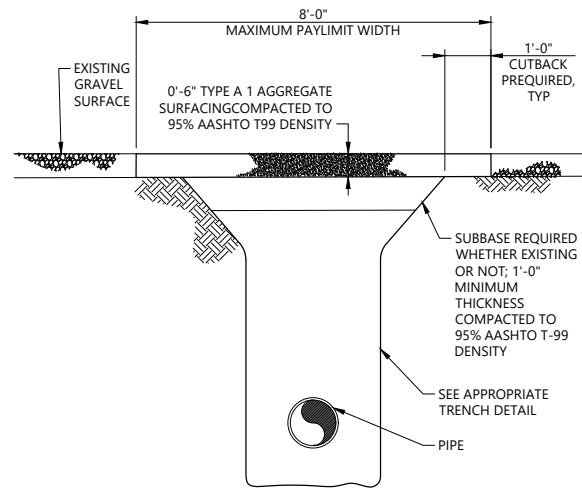
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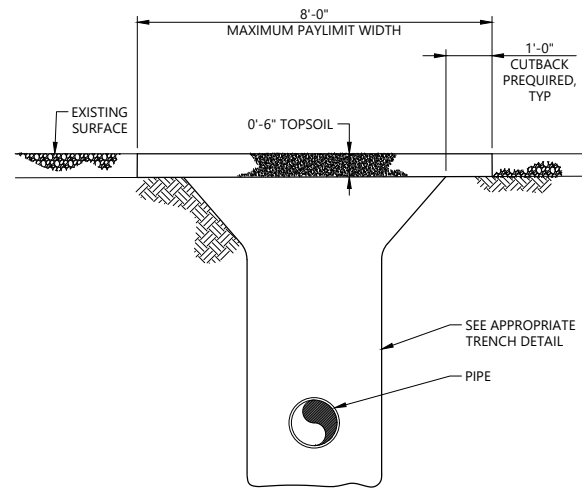
CITY OF NEW MEADOWS
WATER SYSTEM IMPROVEMENTS PROJECT
NEW MEADOWS, IDAHO
TYPICAL DETAILS

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PROJECT	197.0010.01
DATE	8/6/2019
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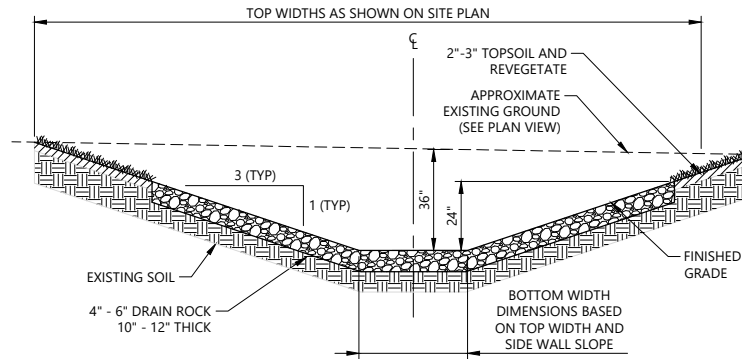
NOTE:
1. GRAVEL SURFACE REPAIR WILL BE PAID ON A SQ FT BASIS UP TO A MAXIMUM OF 8'-0" WIDTH.

C209 GRAVEL SURFACE REPAIR
TYP NOT TO SCALE

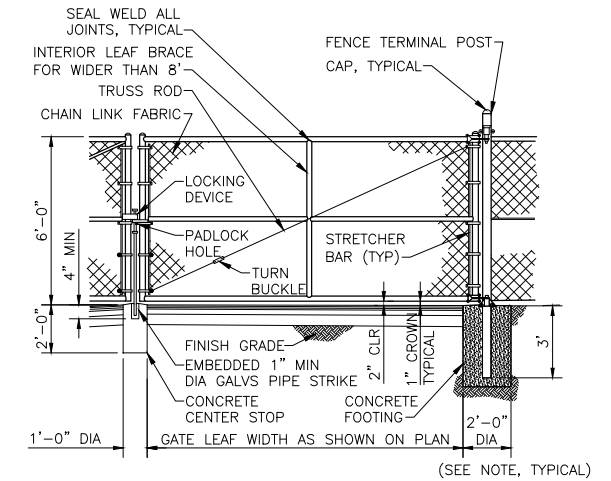


NOTE:
1. NATURAL SURFACE REPAIR WILL BE PAID ON A SQ FT BASIS UP TO A MAXIMUM OF 8'-0" WIDTH.

C212 NATURAL SURFACE REPAIR
TYP NOT TO SCALE



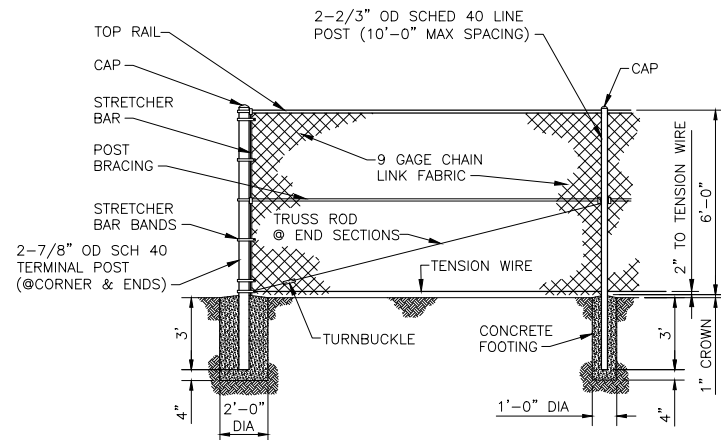
C225 DRAINAGE AREA DETAIL
TYP NOT TO SCALE



NOTE:
1. USE 4'-0" DIA CONCRETE
2. FOOTING HOLE FOR POST
3. DIA GREATER THAN 6".

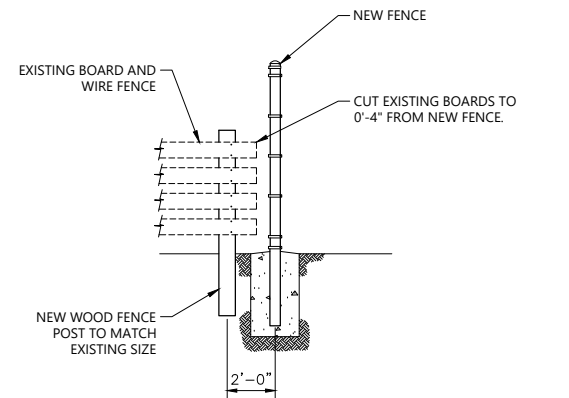
GATE POST SCHEDULE	
LEAF SPAN	NOMINAL DIAMETER
< 6'	3"
6'-12'	5"
12'-18'	6"
18'-24'	8"

C610 SECURITY GATE DETAIL
TYP NOT TO SCALE



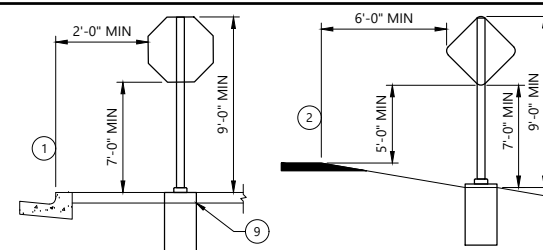
GENERAL NOTES:
1. INSTALL PRIVACY SLATS. COLOR TO BE DETERMINED.

C611 SECURITY FENCE DETAIL
TYP NOT TO SCALE

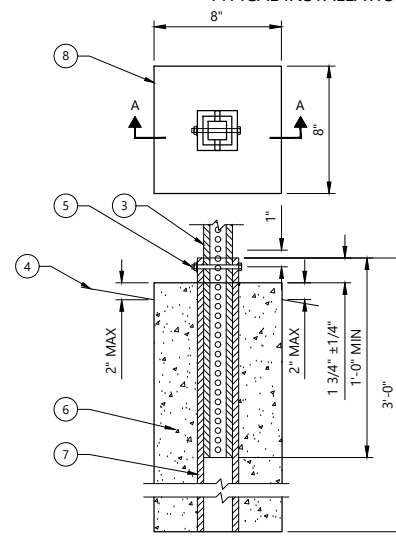


INCLUDE IN FENCING BID ITEM

C612 CONNECT TO EXISTING FENCE
TYP NOT TO SCALE



TYPICAL INSTALLATION FOR SIGNS



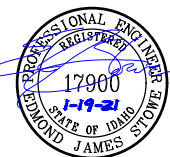
- LEGEND #**
- FACE OF CURB.
 - NORMAL SHOULDER LOCATION.
 - TYPE E-1 SIGN POST.
2" x 2" PERFORATED SQUARE TUBING
12 GAUGE (0.105" WALL THICKNESS)
2.416 LB/FT WEIGHT
 - GROUND LINE.
 - 3/8" x 3" HEX HEAD BOLT
W/LOCKNUT AND 2 FLAT WASHERS.
 - CLASS 3000 PSI CONCRETE.
 - TYPE E-1 ANCHOR POST.
2 1/2" x 2 1/2" SQUARE TUBING
3/16" WALL THICKNESS
NO PERFORATIONS
5.59 LB/FT WEIGHT
 - 12" DIA CIRCULAR CONCRETE
FOUNDATION x 3'-0" DEPTH MAY BE
USED IN LIEU OF 8" x 8" SQUARE
FOUNDATION.
 - INSTALL 1/2" JOINT MATERIAL
AROUND FOUNDATION PERIMETER.

INCLUDE IN GRAVEL ACCESS ROAD PAY ITEM

C620 SIGN POST INSTALLATION
TYP NOT TO SCALE

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				CHECKED
				APPROVED

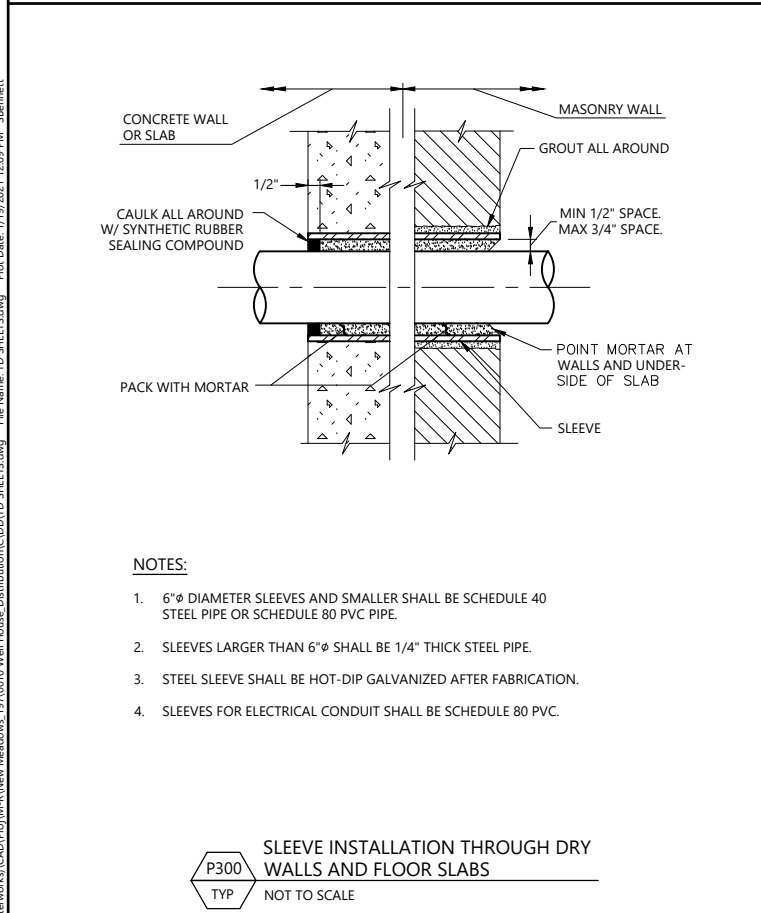
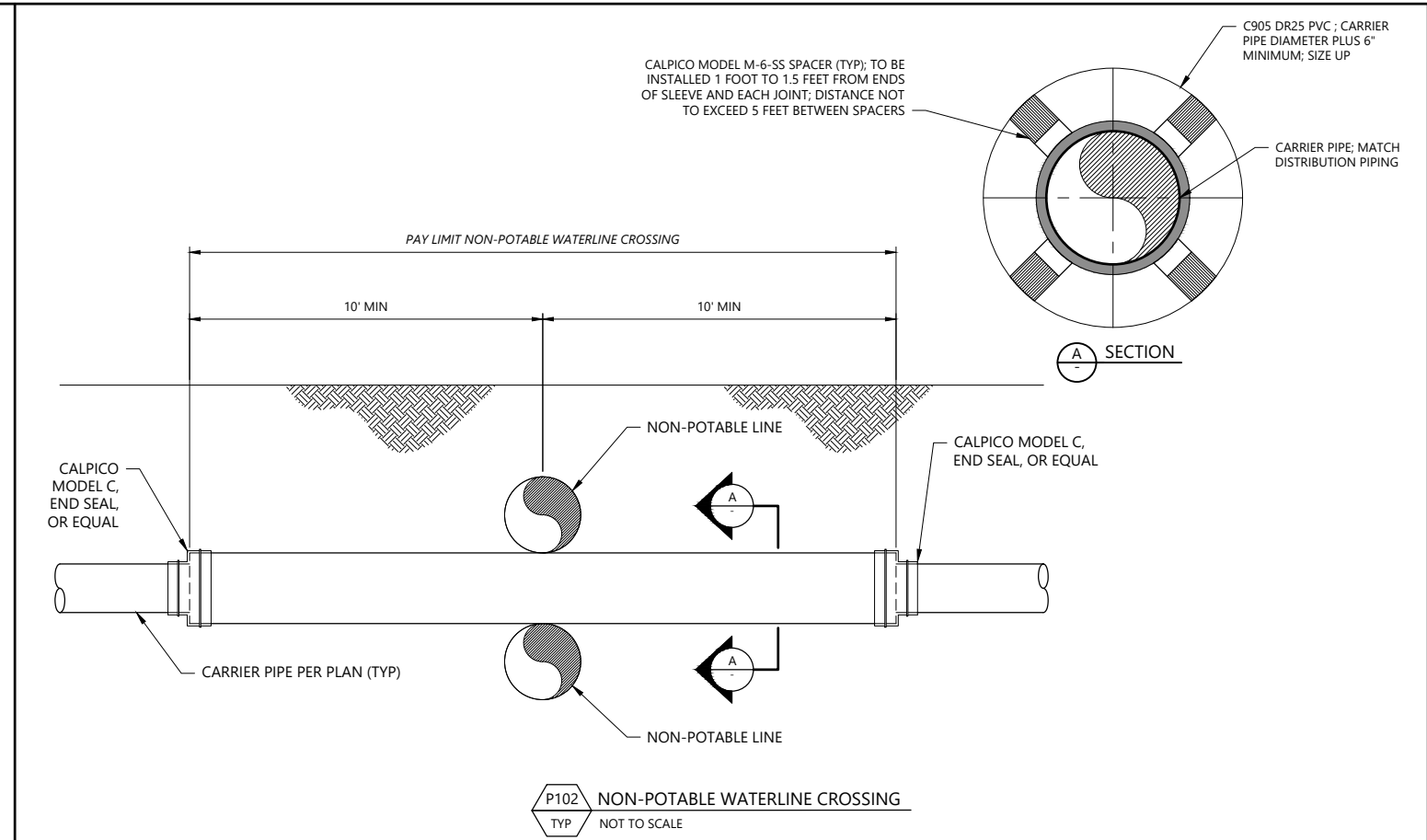
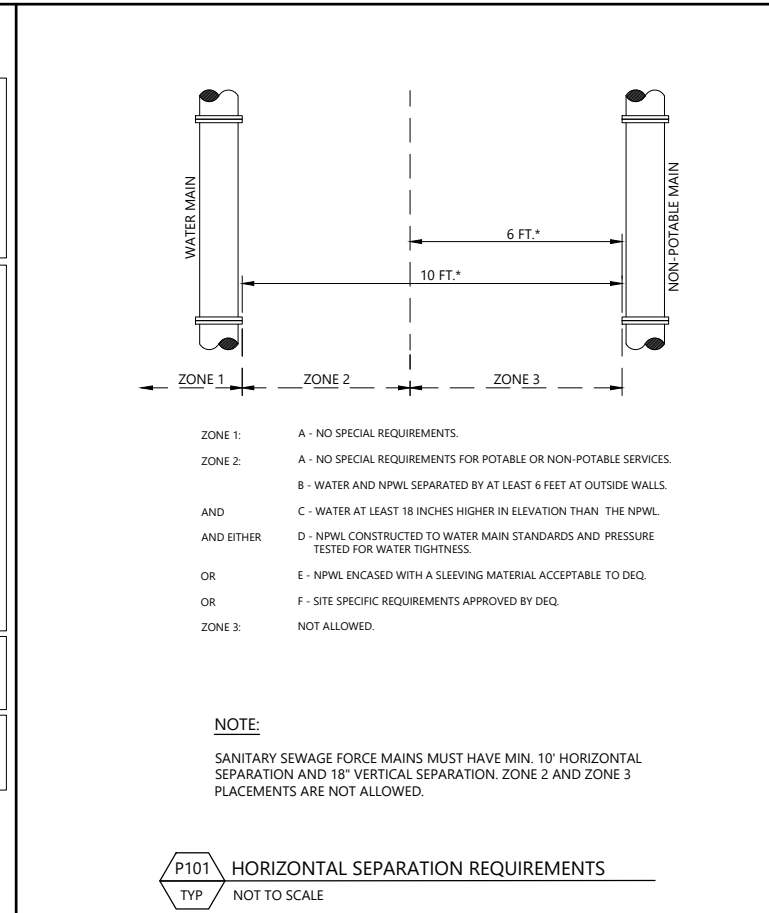
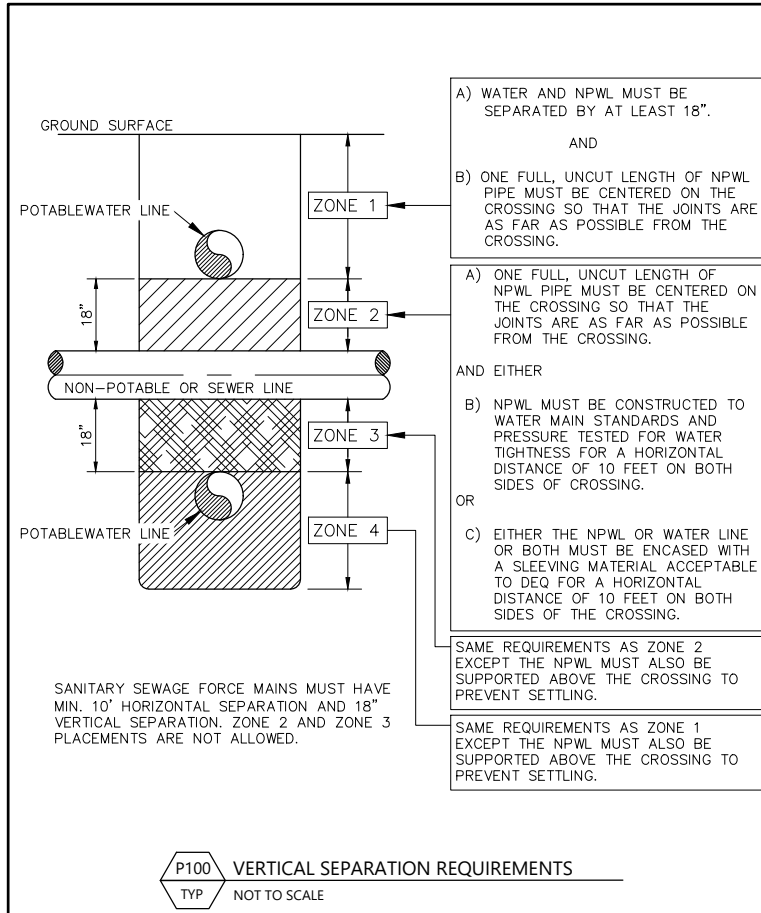


ENGINEERING AND ENVIRONMENTAL SOLUTIONS
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CITY OF NEW MEADOWS
WATER SYSTEM IMPROVEMENTS PROJECT
NEW MEADOWS, IDAHO
TYPICAL DETAILS

VERIFY SCALE	BAR IS ONE INCH ON FULL SIZE DRAWING 1"
PROJECT	197.0010.01
DATE	8/6/2019
DRAWING NO.	TD-3

Path: C:\MWD\Dropbox (Mountain Waterworks)\CAD\DWG\197.0010 Well House Distribution\CDD\TD SHEETS.dwg File Name: TD SHEETS.dwg Plot Date: 7/19/2021 12:09 PM Sbernett

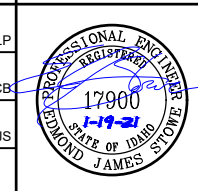


ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE
DIMENSIONS IN INCHES

SIZE OF SUPPORTED PIPE	PIPE SIZE "A"	PIPE SIZE "B"	"C"	"D"	
				MINIMUM	MAXIMUM
2 1/2*	2 1/2	1 1/2	9	8	13
3	2 1/2	1 1/2	9	8 1/2	13 1/2
3 1/2	2 1/2	1 1/2	9	8 1/2	13 1/2
4	3	2 1/2	9	9 1/2	14
6	3	2 1/2	9	10 1/2	15 1/2
8	3	2 1/2	9	11 1/2	16 1/2
10	3	2 1/2	9	13 1/2	18 1/2
12	3	2 1/2	9	15	19 1/2
14	4	3	11	16 1/2	20 1/2
16	4	3	11	17 1/2	22 1/2
18	6	3 1/2	13 1/2	19 1/2	24
20	6	3 1/2	13 1/2	21	25 1/2
24	6	4	13 1/2	23 1/2	28 1/2
30	6	4	13 1/2	27	31 1/2
32	6	4	13 1/2	28 1/2	32 1/2
36	6	4	13 1/2	30 1/2	34 1/2

P608 ADJUSTABLE PIPE SUPPORT
TYP NOT TO SCALE

NO.	REVISION	BY	DATE	DESIGN
				DLP
				DRAWN
				SCB
				CHECKED
				EJS
				APPROVED



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CITY OF NEW MEADOWS
WATER SYSTEM IMPROVEMENTS PROJECT
NEW MEADOWS, IDAHO
TYPICAL DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON FULL SIZE DRAWING	1"
PROJECT	197.0010.01
DATE	8/6/2019
DRAWING NO.	TD-5