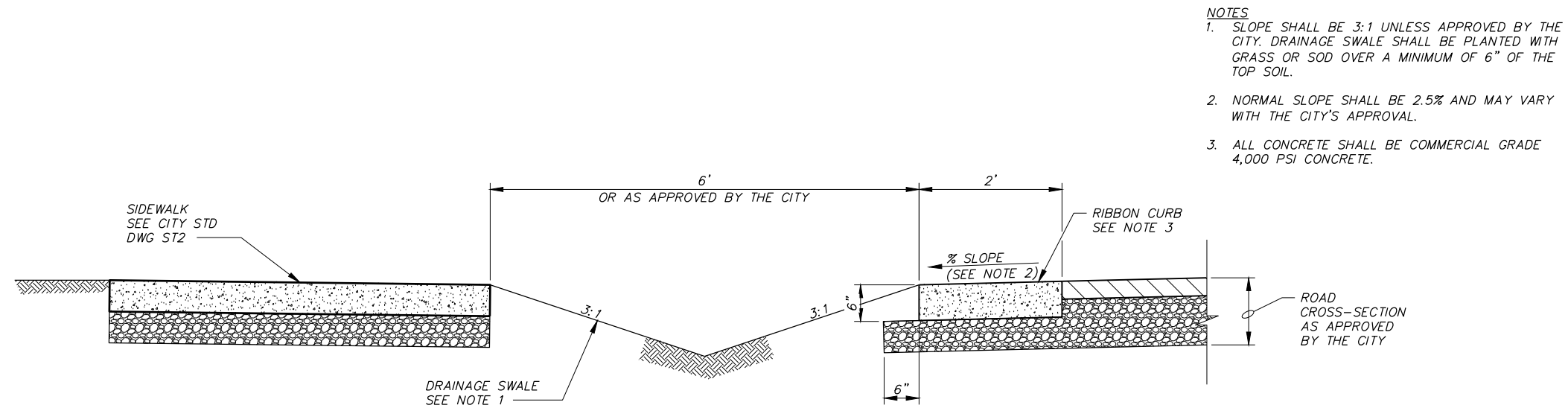
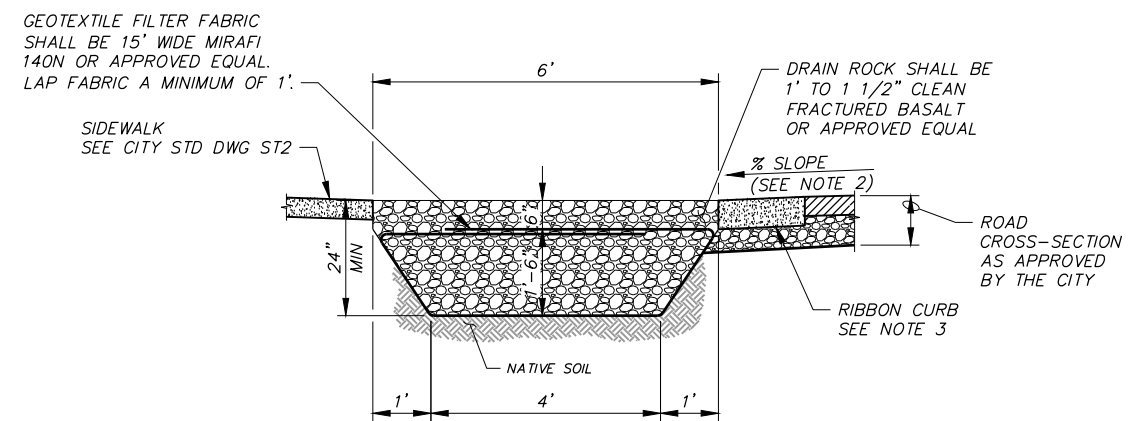


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RIBBON CURB AND DRAINAGE SWALE OPTION 1

NTS



INFILTRATION SWALE OPTION 2

NTS



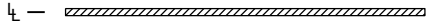
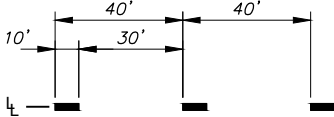
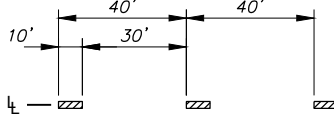
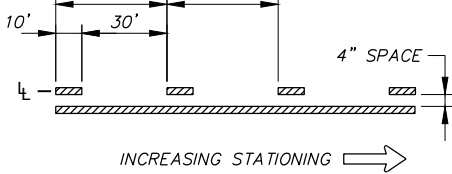
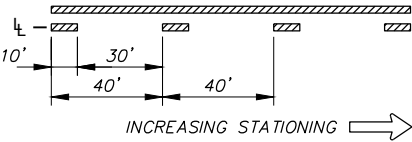
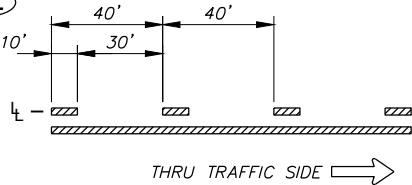
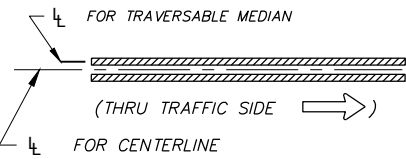
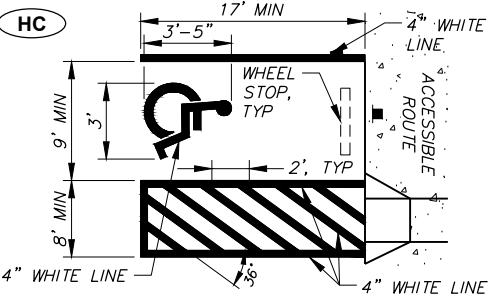
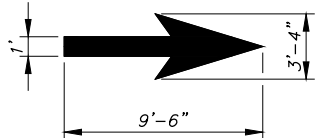
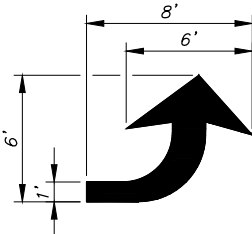
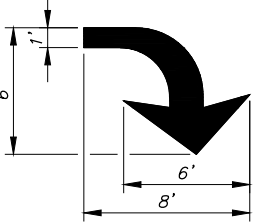
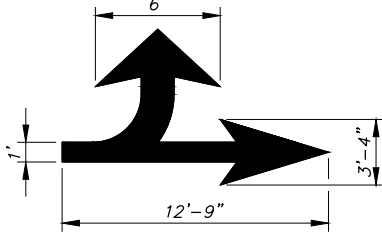
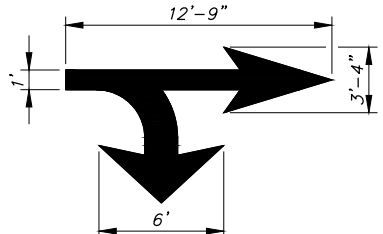
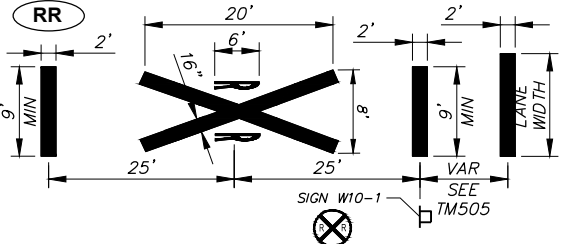
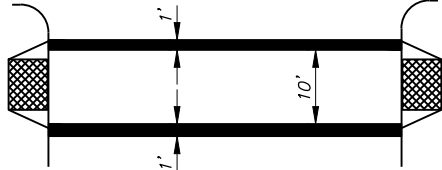
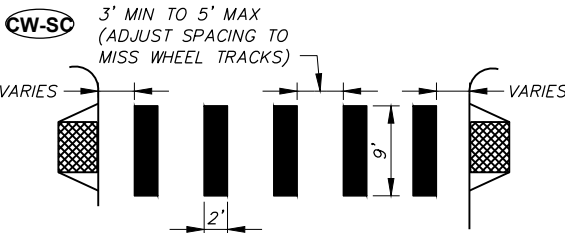
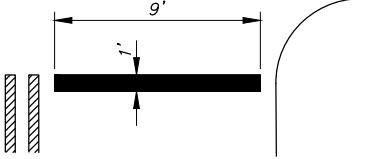
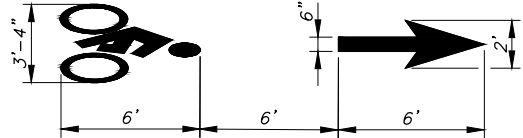
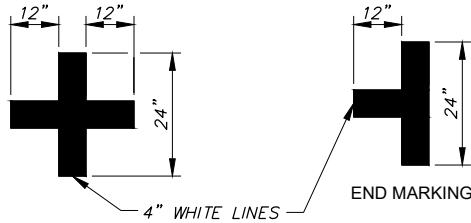
CITY OF
BOARDMAN, OREGON
STANDARD DRAWING

RIBBON CURB DRAINAGE SWALE

DRAWING

ST5

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W  4" WHITE LINE	W-2  8" WHITE LINE	Y  4" YELLOW LINE	WB  4" WHITE BROKEN LINE	YB  4" YELLOW BROKEN LINE
NPR  NO-PASS RIGHT 4" YELLOW LINES	NPL  NO-PASS LEFT 4" YELLOW LINES	TWL  TWO-WAY LEFT TURN 4" YELLOW LINES	ND  NARROW DOUBLE NO-PASS TWO 4" YELLOW LINES	HC  DISABLED PARKING DETAIL (WHITE)
SA  STRAIGHT ARROW (WHITE) FOR ARROW PORTION DETAILS, SEE CURRENT VERSION OF ODOT STANDARD HIGHWAY SIGNS	LA  LEFT TURN ARROW (WHITE) FOR ARROW PORTION DETAILS, SEE CURRENT VERSION OF ODOT STANDARD HIGHWAY SIGNS	RA  RIGHT TURN ARROW (WHITE) FOR ARROW PORTION DETAILS, SEE CURRENT VERSION OF ODOT STANDARD HIGHWAY SIGNS	LSA  LEFT TURN STRAIGHT ARROW (WHITE) FOR ARROW PORTION DETAILS, SEE CURRENT VERSION OF ODOT STANDARD HIGHWAY SIGNS	RSA  RIGHT TURN STRAIGHT ARROW (WHITE) FOR ARROW PORTION DETAILS, SEE CURRENT VERSION OF ODOT STANDARD HIGHWAY SIGNS
RR  RAILROAD CROSSING (WHITE) INSTALL PER ODOT RAIL CROSSING ORDER OR AS SHOWN FOR LETTER PROPORTION DETAILS. SEE CURRENT VERSION OF ODOT STANDARD HIGHWAY SYMBOLS	CW  STANDARD CROSSWALK TWO 1' WHITE BARS INSTALL PER ODOT STANDARD DRAWING TM530	CW-SC  STAGGERED CONTINENTAL CROSSWALK 2' WHITE BARS INSTALL PER ODOT STANDARD DRAWING TM530	S  STOP BAR 1' WHITE BAR INSTALL PER ODOT STANDARD DRAWING TM530	BS  BIKE LANE STANDARD STENCIL CENTER MARKINGS WITHIN LANE WIDTH FOR PROPORTION DETAILS, SEE CURRENT VERSION OF ODOT STANDARD HIGHWAY SIGNS
P  ON-STREET PARKING DETAIL (WHITE)	LEGEND  LANE LINE DIMENSIONS SHALL BE SHOWN ON THE STRIPING PLANS  DIRECTION OF TRAFFIC, INCREASING STATIONING OR THRU TRAFFIC SIDE NOTES 1. CENTER PAVEMENT MARKINGS WITHIN THE LANE WIDTH. 2. ALL PAVEMENT MARKINGS SHALL BE TYPE B-HS FUSED THERMOPLASTIC FILM CONFORMING TO CITY SPECIFICATIONS. 3. STAGGERED CONTINENTAL CROSSWALK ON ALL ARTERIAL CROSSINGS OR IN SCHOOL ZONES.			



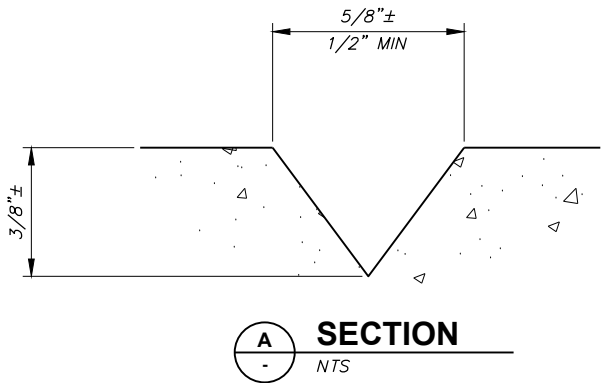
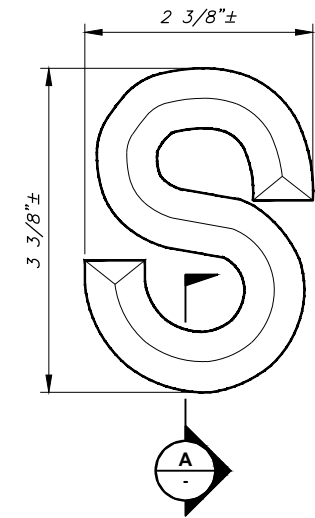
CITY OF
BOARDMAN, OREGON
STANDARD DRAWING

PAVEMENT STRIPING AND MARKINGS

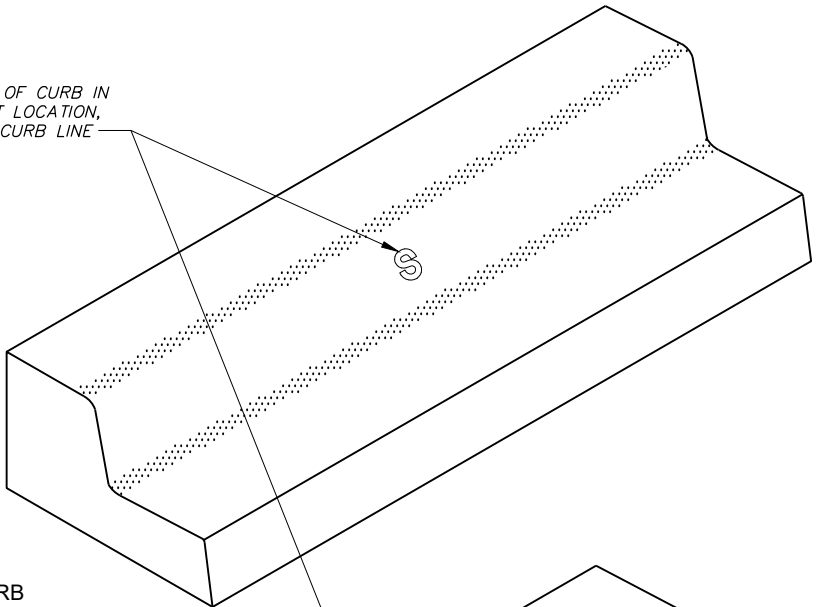
DRAWING
ST16

NOTES

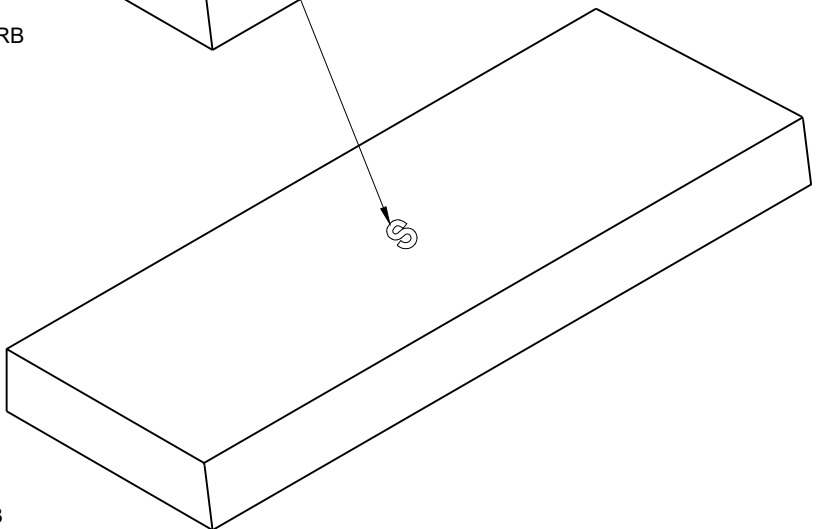
- 1. ALL NEW AND EXISTING SANITARY SEWER SERVICE LOCATIONS SHALL BE MARKED IN CURB AS SHOWN. STAMPING OF SERVICE LOCATIONS SHALL BE CONSIDERED INCIDENTAL TO THE PRICE OF THE CURB.
- 2. STAMPS MAY BE PURCHASED FROM THE CITY.
- 3. S's NOT PLACED BY SPECIFIC STAMP WILL NOT BE ACCEPTED AND THAT SECTION OF CURB SHALL BE REMOVED AND REPLACED.



STAMP "S" IN FACE OF CURB IN
LINE WITH CLEANOUT LOCATION,
PERPENDICULAR TO CURB LINE



STANDARD CURB



RIBBON CURB

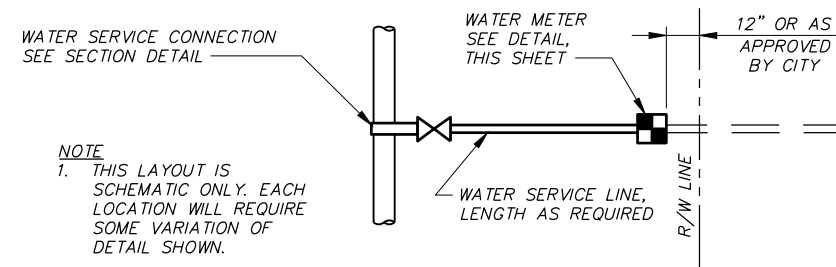


CITY OF
BOARDMAN, OREGON
STANDARD DRAWING

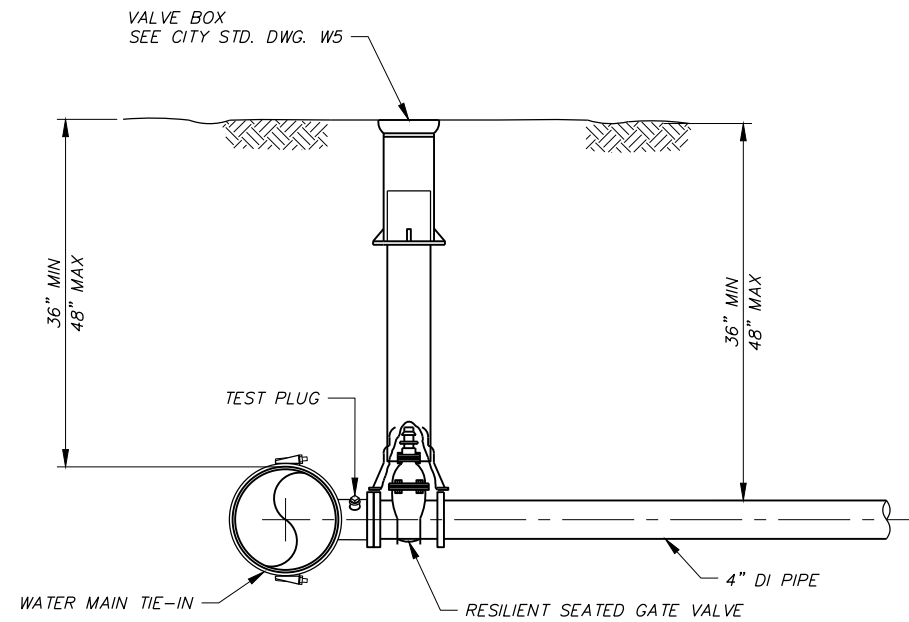
SEWER SERVICE CURB STAMP

DRAWING

S8



PLAN



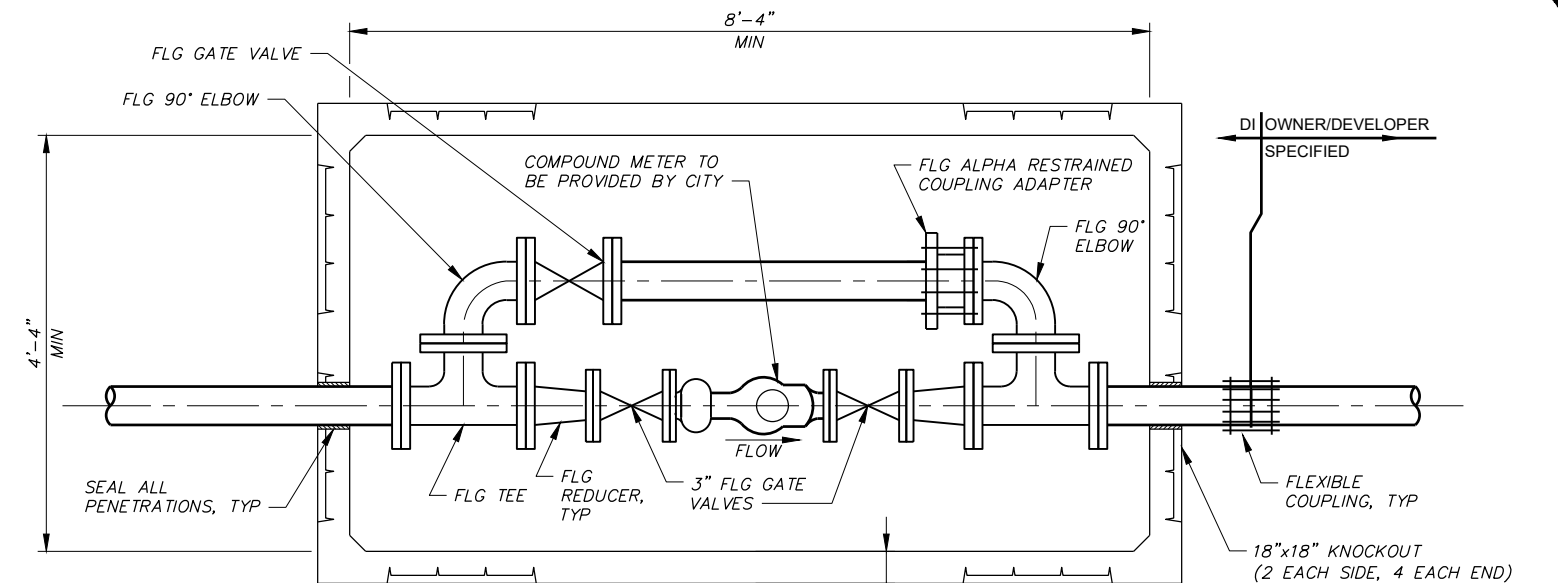
SECTION

TYPICAL 3" WATER SERVICE LINE

NTS

NOTES

1. VAULTS SHALL BE SET PLUMB WITH TOP LEVEL.
2. PROVIDE LADDER IN VAULT. LADDER TO BE APPROVED BY CITY PRIOR TO INSTALLATION. LADDER IS NOT SHOWN FOR CLARITY.
3. GATE VALVES SHALL HAVE HAND WHEEL OPERATORS.
4. COMPONENT SIZE AS REQUIRED.
5. FIRE LINE SHALL HAVE A DOUBLE CHECK ASSEMBLY INSTALLED UPSTREAM FROM THE WATER METER.
6. ALL BACKFILL AND AGGREGATE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D1557, SEE CITY STD DWG ST1.
7. METER VAULT SHALL BE CENTERED OVER THE COMPLETED METER ASSEMBLY.
8. METERSETTER SHALL BE PERPENDICULAR TO CURB LINE.
9. TRAFFIC BEARING METER VAULT LIDS SHALL BE USED WHERE METERS ARE LOCATED WITHIN ANY PORTION OF DRIVEWAYS OR APRON OR OTHER TRAFFIC AREAS.
10. WATER SERVICE SHALL BE INSTALLED IN A DIRECT LINE BETWEEN TAP AND METER.
11. DO NOT INSTALL MORE THAN ONE METER PER SERVICE LINE.
12. FOR METERS 4-INCHES AND LARGER, A CUSTOM WATER SERVICE DETAIL SHALL BE PROVIDED TO THE CITY FOR THEIR REVIEW AND APPROVAL.



PLAN

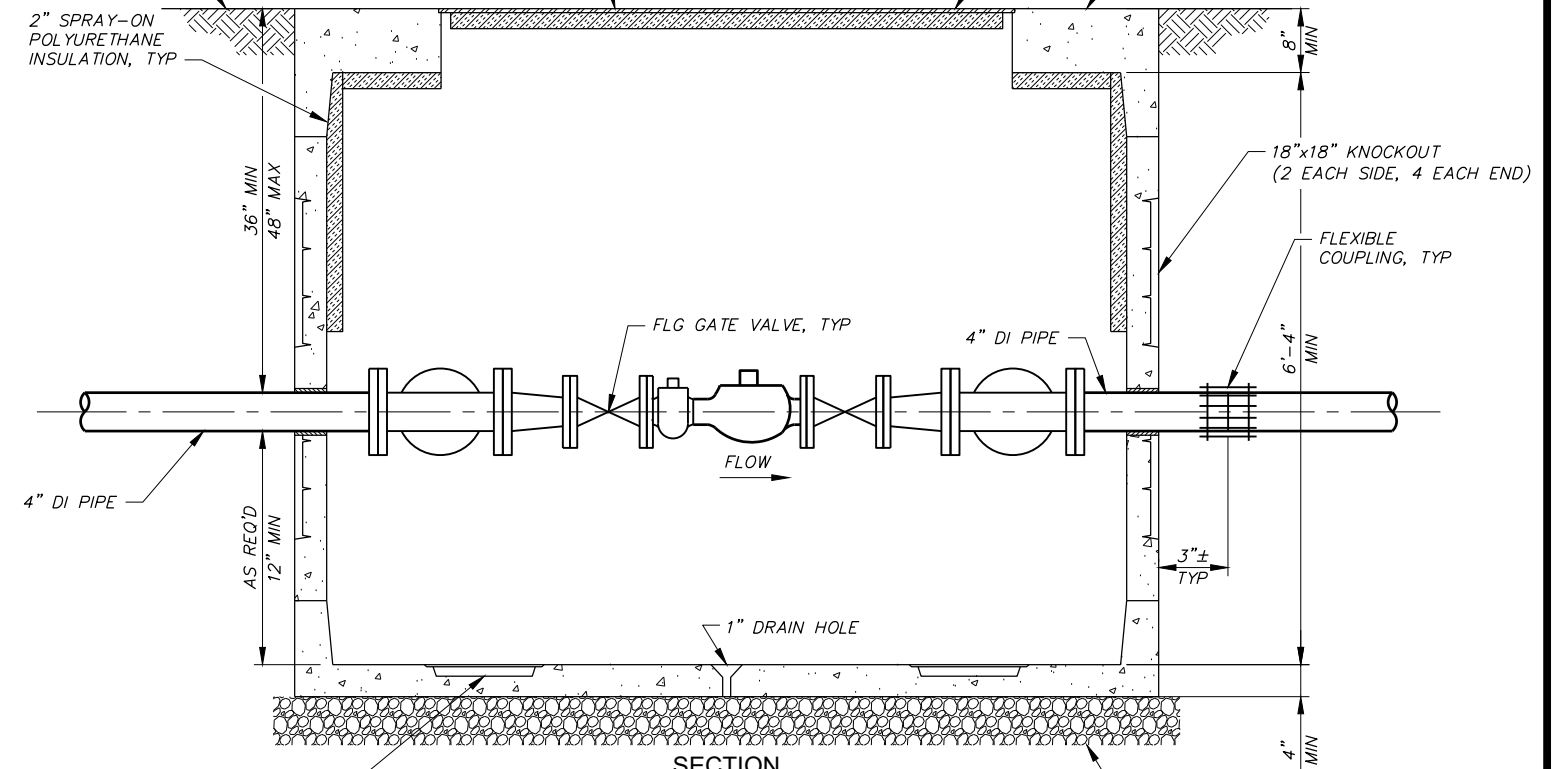
PROVIDE TWO 1 7/8" DIAMETER
THROUGH LID MOUNT HOLES OR
TWO UNDER LID MOUNTS FOR
CELLULAR READ ANTENNAS,
COORDINATE WITH THE CITY OF
BOARDMAN PUBLIC WORKS PRIOR
TO PROVIDING ANTENNA HOLES.

FINISH GRADE
AS REQUIRED

2" SPRAY-ON
POLYURETHANE
INSULATION, TYP

MINI 3'x6' GALVANIZED DIAMOND
PLATE BIFOLD DOORS

OLD CASTLE PRECAST VAULT
4484-LA, OR APPROVED EQUAL,
SEE NOTE 13



SECTION

TYPICAL 3" WATER METER INSTALLATION

NTS

(2) - 12" DIA. SUMPS



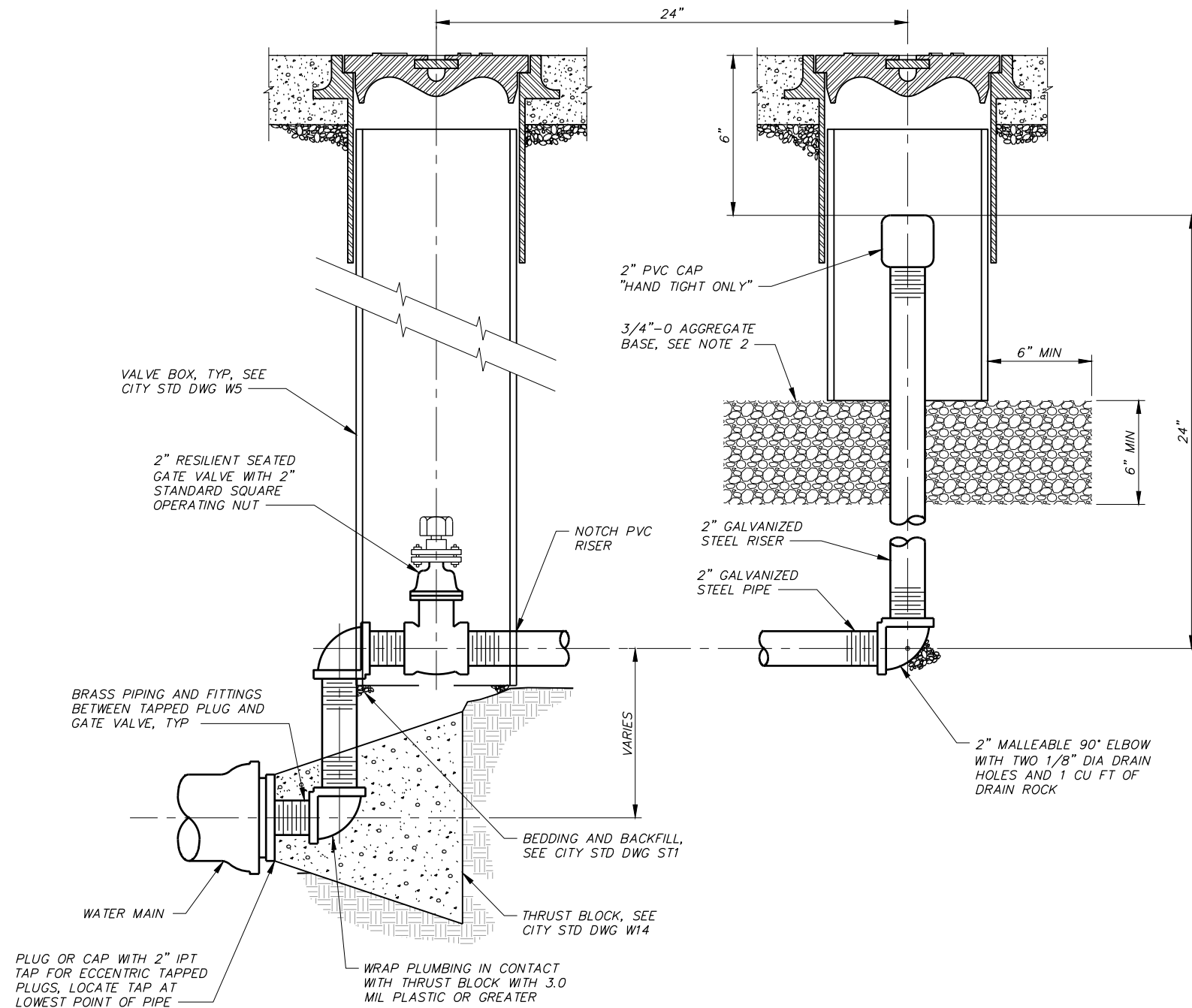
CITY OF
BOARDMAN, OREGON
STANDARD DRAWING

3" WATER SERVICE

DRAWING

W4

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NOTES

1. BLOW-OFF ASSEMBLIES ARE GENERALLY NOT TO BE USED BUT MAY BE APPROVED IN SPECIAL CIRCUMSTANCES AS DETERMINED BY THE CITY.
2. ALL AGGREGATE BASE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D1557.

MAIN DEAD-END BLOWOFF ASSEMBLY

NTS



CITY OF
BOARDMAN, OREGON
STANDARD DRAWING

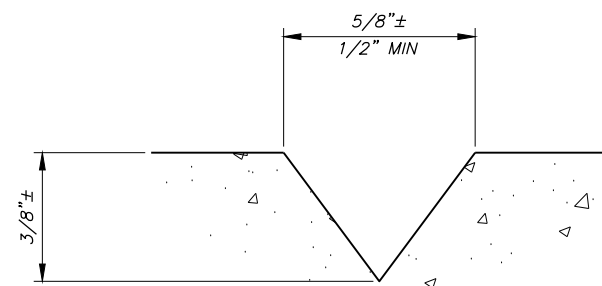
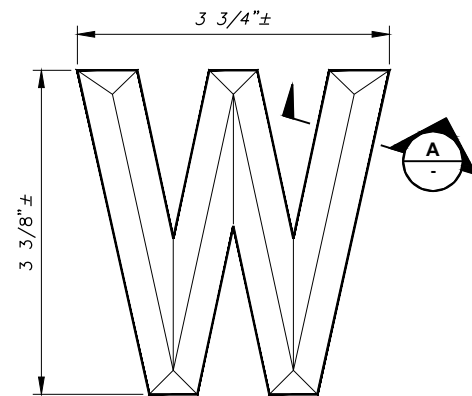
MAIN DEAD-END BLOWOFF ASSEMBLY

DRAWING

W10

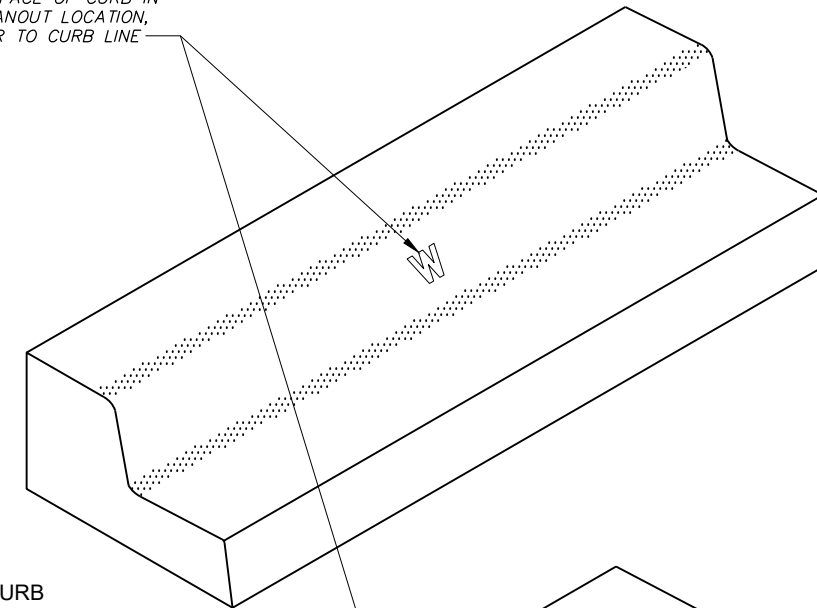
NOTES

1. ALL NEW AND EXISTING WATER SERVICE LOCATIONS SHALL BE MARKED IN CURB AS SHOWN OR AS APPROVED BY THE CITY ENGINEER. STAMPING OF SERVICE LOCATIONS SHALL BE CONSIDERED INCIDENTAL TO THE PRICE OF THE CURB.
2. STAMPS MAY BE PURCHASED FROM THE CITY.
3. W's NOT PLACED BY SPECIFIC STAMP WILL NOT BE ACCEPTED AND THAT SECTION OF CURB SHALL BE REMOVED AND REPLACED.
4. SEE CITY STD DWG S8 FOR SEWER SERVICE LOCATION CURB STAMP.

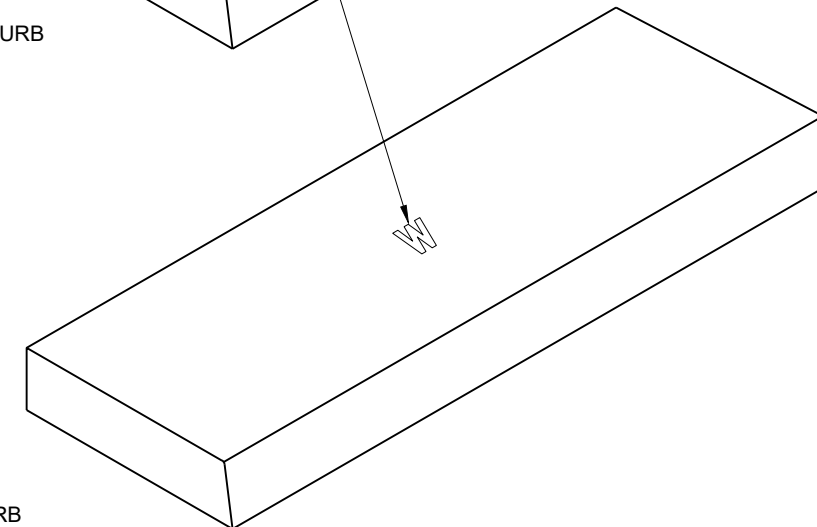


A SECTION
NTS

STAMP "W" IN FACE OF CURB IN
LINE WITH CLEANOUT LOCATION,
PERPENDICULAR TO CURB LINE



STANDARD CURB



RIBBON CURB

CHLORINATION AND BACTERIA TESTING PROCDEEDURES

NEW MAIN TESTING IF CONNECTED TO EXISTING

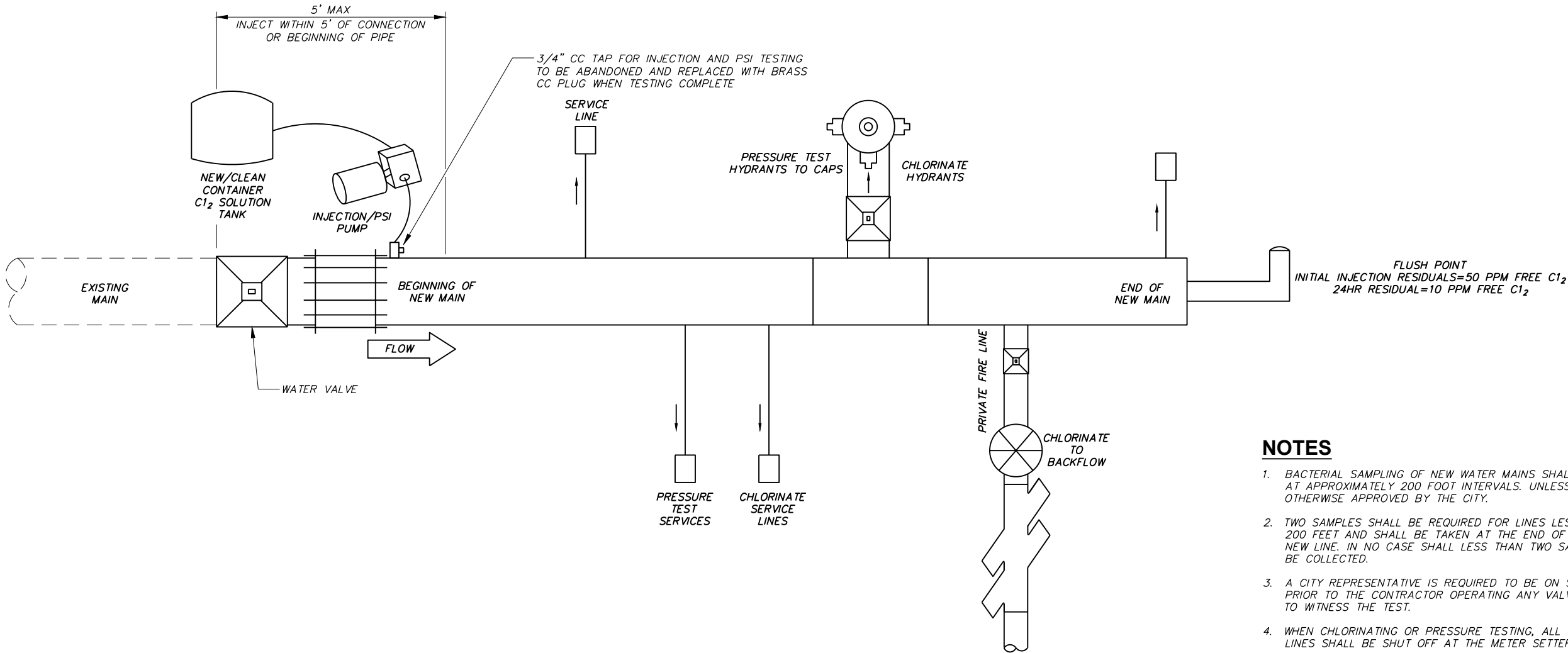
- DAY 1
- 1. FLUSH MAIN
 - 2. INJECT Cl_2 TO 25 MG/L MINIMUM (CITY VERIFY)
 - 2A. 24-48HR HOLDING TIME
- DAY 2
- 3. Cl_2 RESIDUAL ≥ 10 MG/L MIN (IF NO-RESTART STEP 1-CITY VERIFY)
 - 3A. FLUSH Cl_2 TO ≤ 1.0 MG/L
 - 3B. 16-24HR HOLDING TIME
- DAY 3
- *4. PULL BAC-T SAMPLE(S) CITY DETERMINES QUANTITY (CITY PROVIDES BAC-T BOTTLES)
 - 4A. 24HR SAMPLE TIME
- DAY 4
- 5. IF BAC-T RESULTS ARE POSITIVE
 - 5A. START BACK @ STEP 1
 - 5B. OR OPTIONALLY ONLY AFTER FIRST POSITIVE RESULTS, START BACK AT STEP 3A
- 6. IF BAC-T RESULTS ARE NEGATIVE:
 - 6A. BAC-T TEST COMPLETE. READY FOR PRESSURE TEST (CITY WITNESS)

*BAC-T SAMPLES NOT PERMITTED ON: FRI, SAT, SUN, OR HOLIDAYS

NEW MAIN TESTING IF NOT CONNECTED TO EXISTING

- DAY 1
- 1. FLUSH
 - 2. PRESSURE TEST (CITY WITNESS)
 - 3. INJECT Cl_2 TO 25 MG/L MINIMUM (CITY VERIFY)
 - 3A. 24-48HR HOLDING TIME
- DAY 2
- 4. Cl_2 RESIDUAL ≥ 10 MG/L MIN (IF NO-RESTART STEP 3 - CITY VERIFY)
 - 4A. FLUSH Cl_2 TO ≤ 1.0 MG/L
 - 4B. 16-24HR HOLDING TIME
- DAY 3
- *5. PULL BAC-T SAMPLE(S)-CITY DETERMINES QUANTITY (CITY PROVIDES BAC-T BOTTLES)
 - 5A. 24HR SAMPLE TIME
- DAY 4
- 6. IF BAC-T RESULTS ARE POSITIVE
 - 6A. START BACK @ STEP 3
 - 6B. OR OPTIONALLY ONLY AFTER FIRST POSITIVE RESULTS, START BACK AT STEP 4A
- 7. IF BAC-T RESULTS ARE NEGATIVE
 - 7A. BAC-T TESTING IS COMPLETE

*BAC-T SAMPLES NOT PERMITTED ON: FRI, SAT, SUN, OR HOLIDAYS



NOTES

- 1. BACTERIAL SAMPLING OF NEW WATER MAINS SHALL OCCUR AT APPROXIMATELY 200 FOOT INTERVALS. UNLESS OTHERWISE APPROVED BY THE CITY.
- 2. TWO SAMPLES SHALL BE REQUIRED FOR LINES LESS THAN 200 FEET AND SHALL BE TAKEN AT THE END OF THE NEW LINE. IN NO CASE SHALL LESS THAN TWO SAMPLES BE COLLECTED.
- 3. A CITY REPRESENTATIVE IS REQUIRED TO BE ON SITE PRIOR TO THE CONTRACTOR OPERATING ANY VALVES AND TO WITNESS THE TEST.
- 4. WHEN CHLORINATING OR PRESSURE TESTING, ALL SERVICE LINES SHALL BE SHUT OFF AT THE METER SETTER.



CITY OF
BOARDMAN, OREGON
STANDARD DRAWING

CHLORINATION AND BACTERIA TESTING

DRAWING
W16