FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

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DATE: 06/01/2020 | SCALE: NONE | FILE: 2020-00i.DWG

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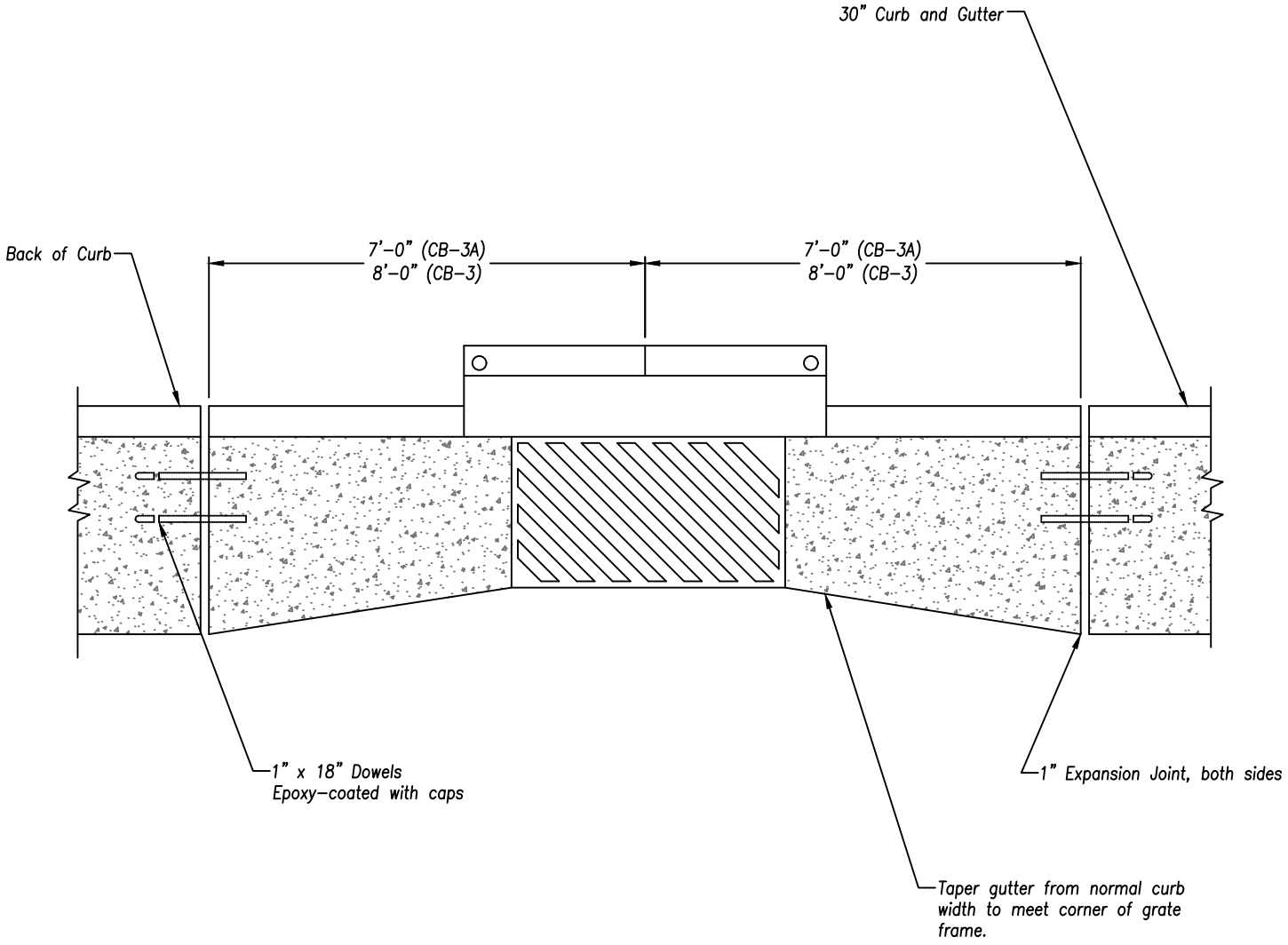
STANDARD CONSTRUCTION DRAWINGS

Modified Type 3 & Type 3A Catch Basins

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-001.DWG



Notes:
1. Vane grates must be used at slopes greater than 2%.
2. All grates must be bicycle-safe.

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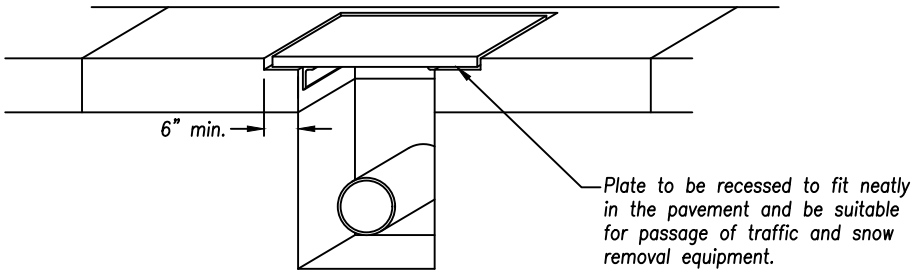
STANDARD CONSTRUCTION DRAWINGS

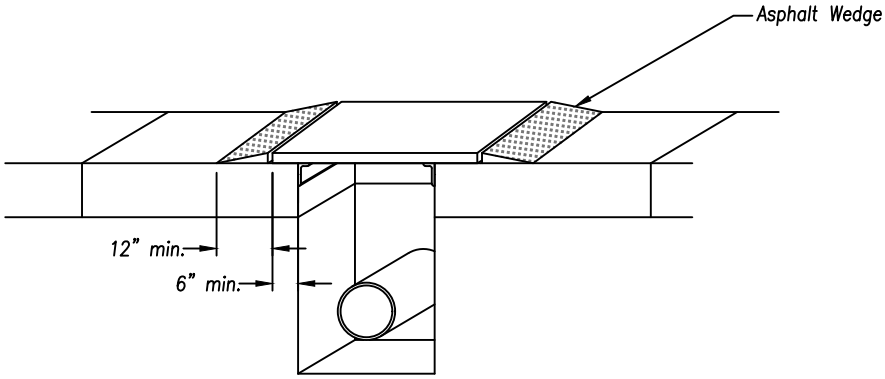
Trench Plate Detail

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-002.DWG



Higher Speed / Volume Applications

45 MPH or Greater
Greater Than 6000 ADT



Lower Speed / Volume Applications

40 MPH or Less
6000 ADT or Less

Notes:

1. For trenches excavated within City roads, trenches shall be plated in accordance with this standard drawing. The intent of the drawing is to provide the availability of all traffic lanes, expecially during peak traffic periods.
2. Excavation must be backfilled to the bottom of the plate if left unattended for over 4 hours.
3. City reserves the right to require recessed plates during winter months.

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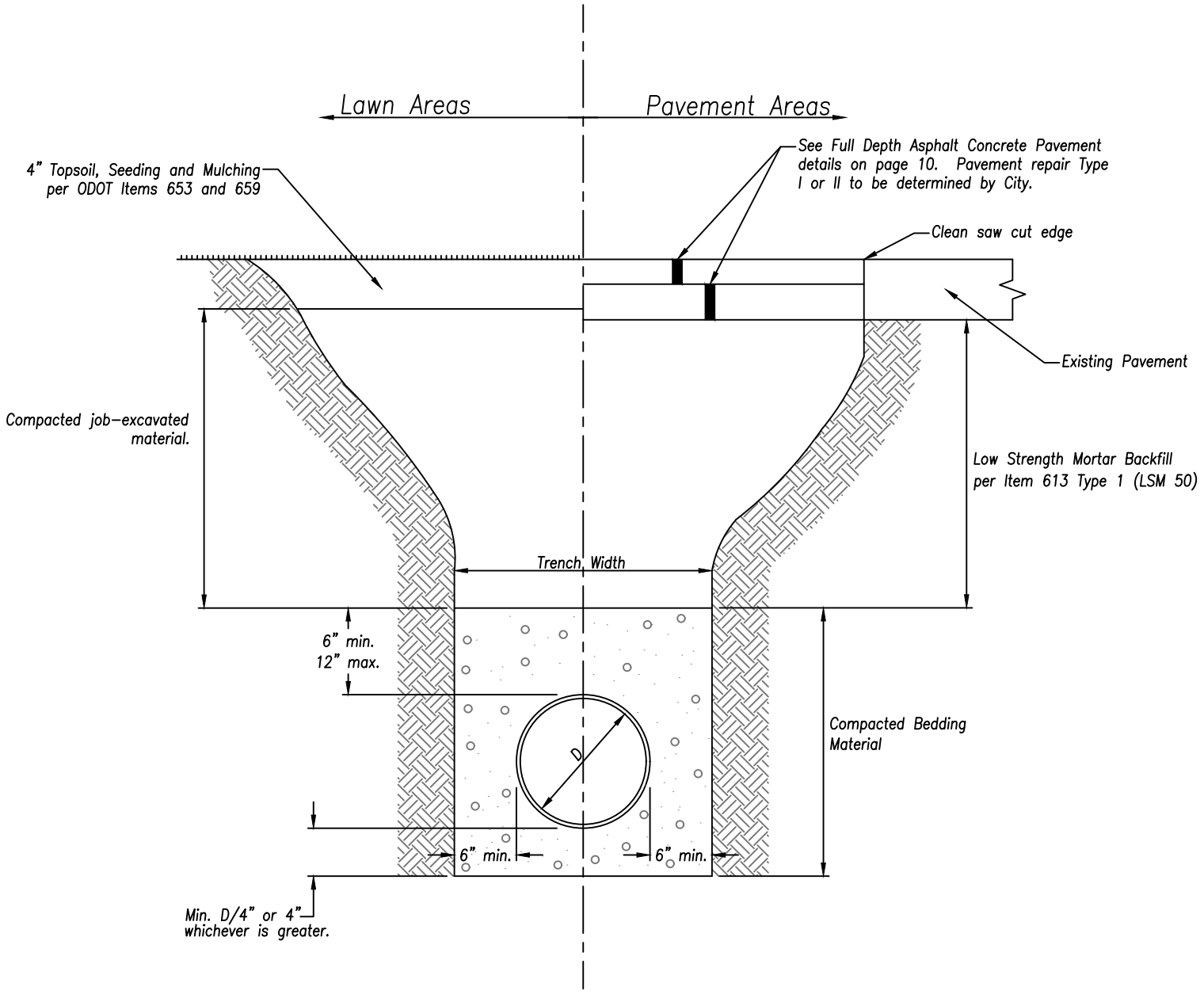
Trench Detail

DATE: 07/10/2020	SCALE: NONE	FILE: 2020-003.DWG



Notes:

1. Acceptable bedding material by application:
   - 1.1. Storm and Sanitary Sewer: 8's, 9's, or washed 57's
   - 1.2. Water Main: 8's or 9's
2. Other bedding not listed here are considered non-standard and must be approved in writing prior to use.
3. For new construction; Trench to be backfilled with granular backfill to street subgrade within roadway limits. Granular backfill to be compacted to 90% of maximum density in 8" maximum lifts.
4. Trench to be backfilled with low strength mortar backfill to street subgrade within existing street limits.
5. Additional bedding over the pipe may be required due to site soil conditions.
6. Bed pipe in specified granular bedding material. To be hand tamped over pipe.
7. Under existing sewers, water lines, gas lines, telephone cable, and electrical conduits, backfill with granular bedding material to the spring line of the existing utility lines.
8. Water main shall be installed in a separate trench from the sanitary sewer and will be a minimum of 10' measured horizontally, from outside diameter to outside diameter. If this cannot be achieved, it may be permitted to place the water in a separate trench or on an undisturbed earth shelf located on one side of the sewer and at an elevation so that bottom of the water main is at least 18" above the top of the sewer.

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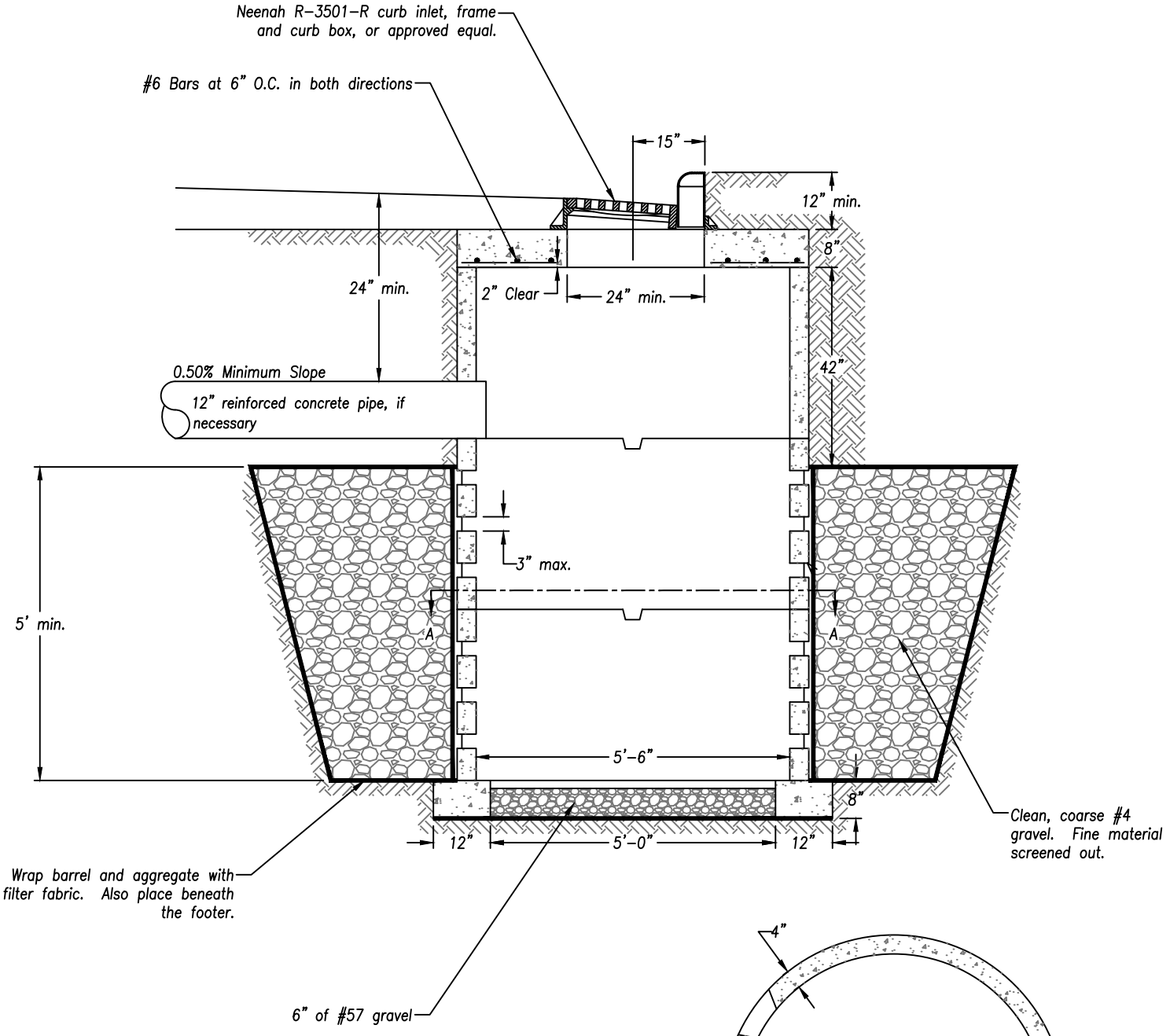
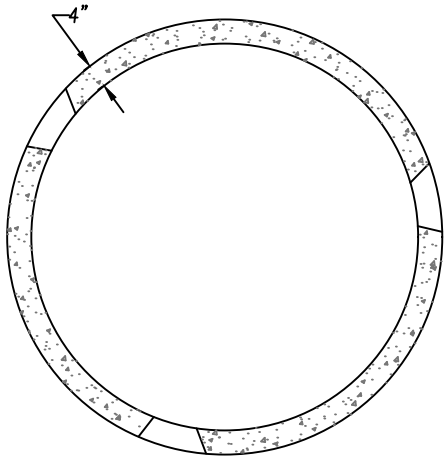
STANDARD CONSTRUCTION DRAWINGS

Standard Pre-Cast Concrete Drywell

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-004.DWG





SECTION A-A

Notes:

1. If drywell does not reach gravel substrate, under cut until existing gravel substrate is reached. If no gravel is reached, backfill below drywell with washed gravel. Depth to be determined by Geotechnical Engineer.
2. 24" hole in top slab to be offset to allow for adjustments.
3. All construction debris, mortar, etc. shall be removed from the bottom of drywell.
4. Placement and compaction requirements as per ODOT Item 611.06.

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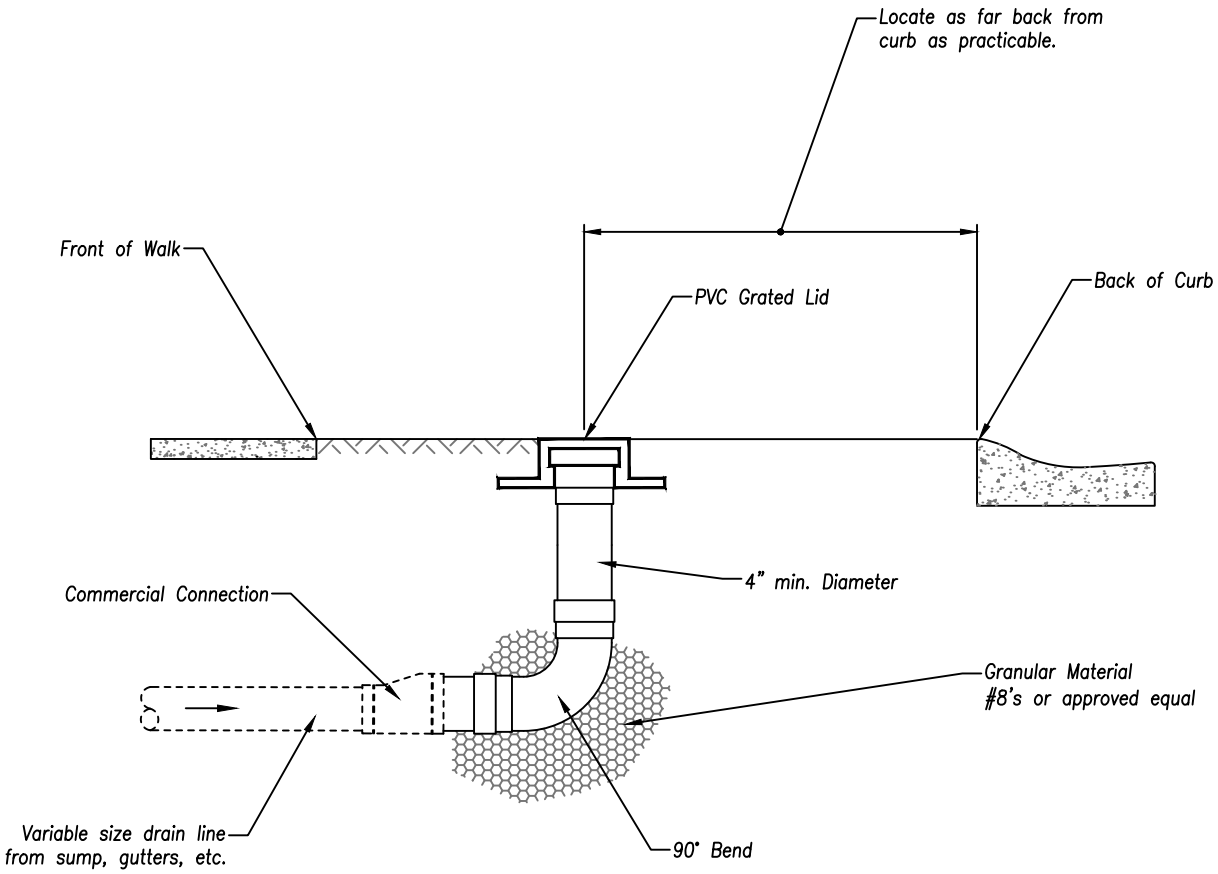
Sump or Downspout Drain

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-005.DWG



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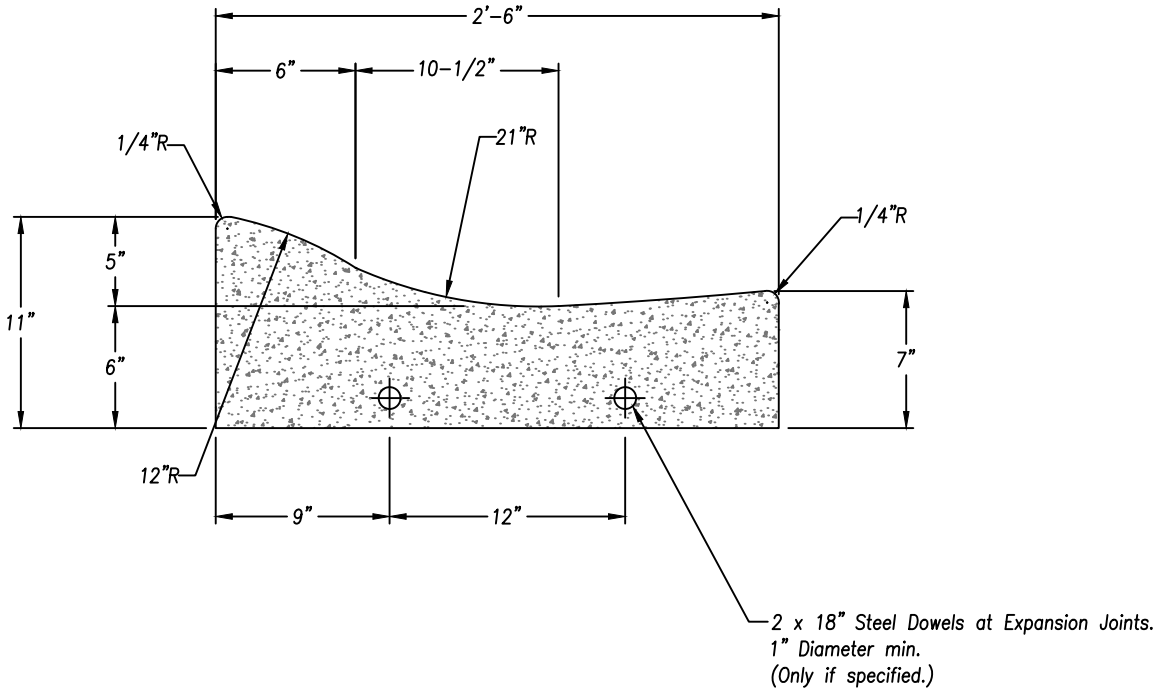
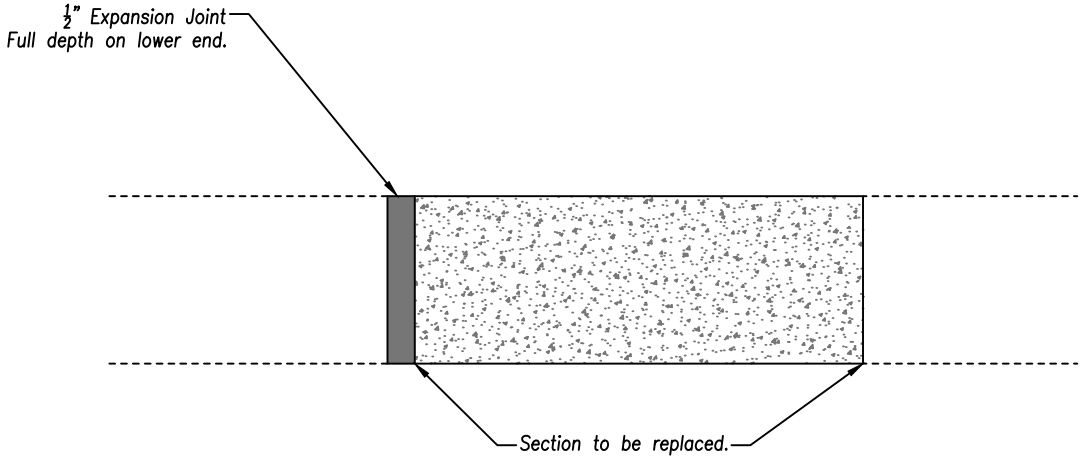
STANDARD CONSTRUCTION DRAWINGS

Fairfield Roll-Type Curb and Gutter

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-006.DWG





Notes:
1. Construct ramps to meet required slopes and existing conditions.
2. Curb sections must be removed to the nearest joint if joint is less than four feet away.

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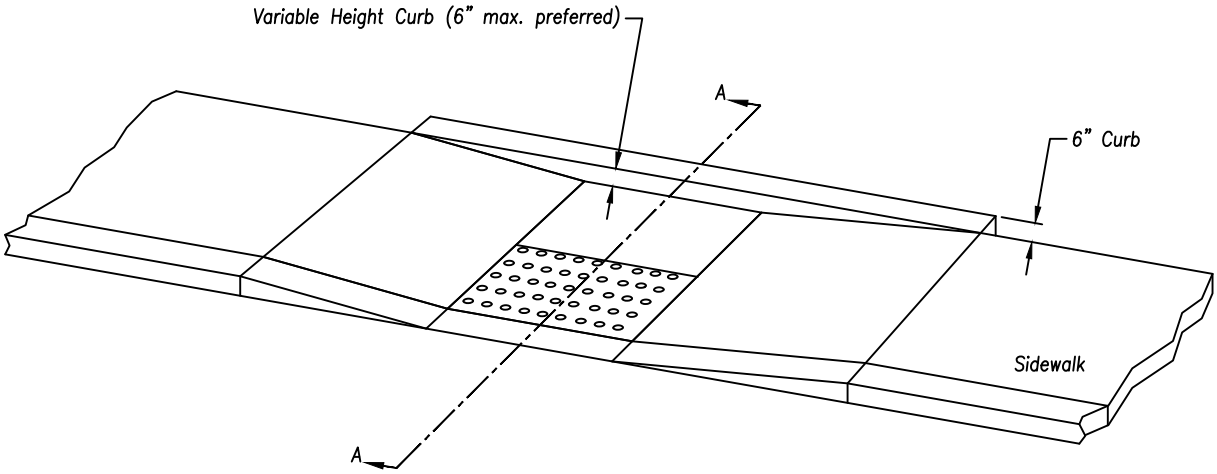
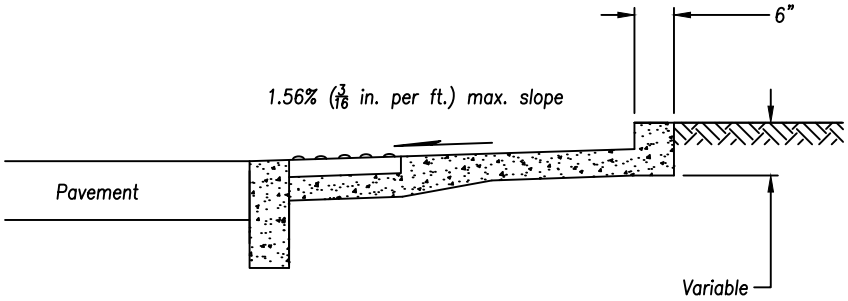
STANDARD CONSTRUCTION DRAWINGS

Modified Type 6 "Lawn" Curb, As Per Plan

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-007.DWG





SECTION A–A

Notes:

1. For curb ramp design, see the following standards:
   - 1.1. ODOT Standard Construction Drawings BP 7.1 & 7.2
   - 1.2. 2009 American National Standards Institute (ANSI) 117.1
   - 1.3. Public Right of Way Accessibility Guidelines (PROWAG)

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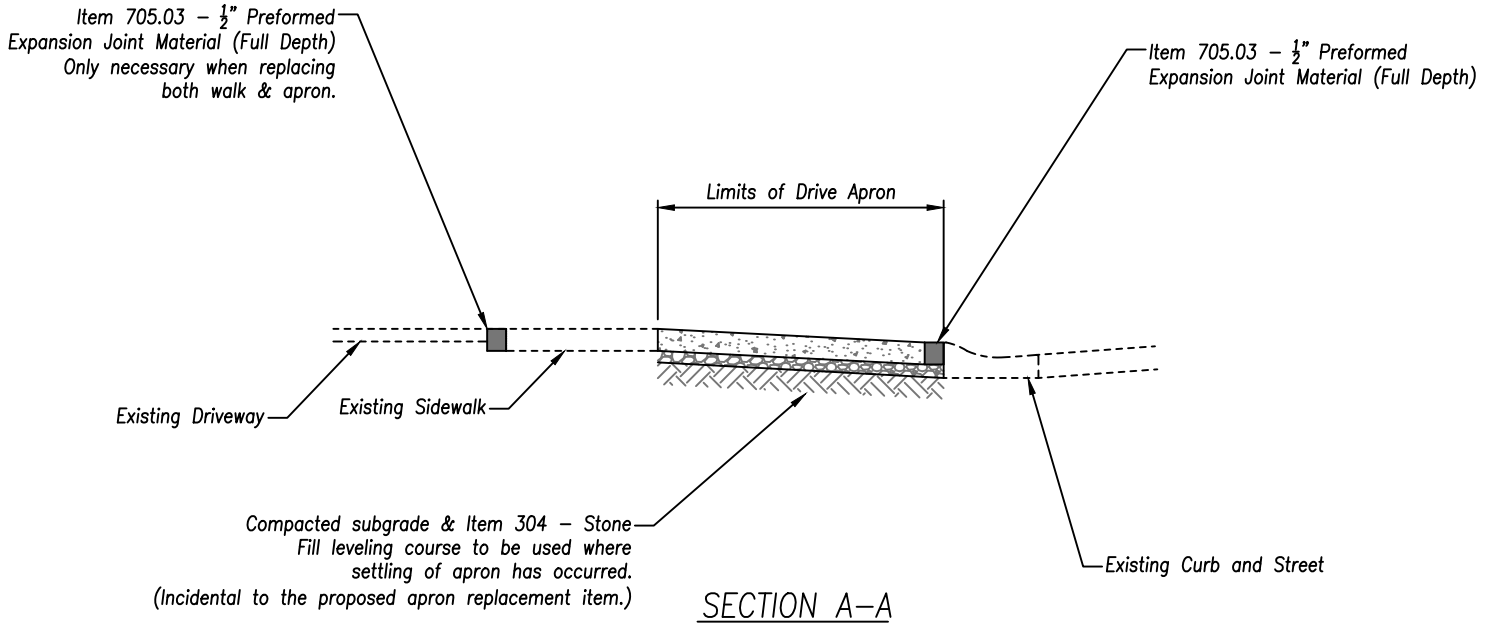
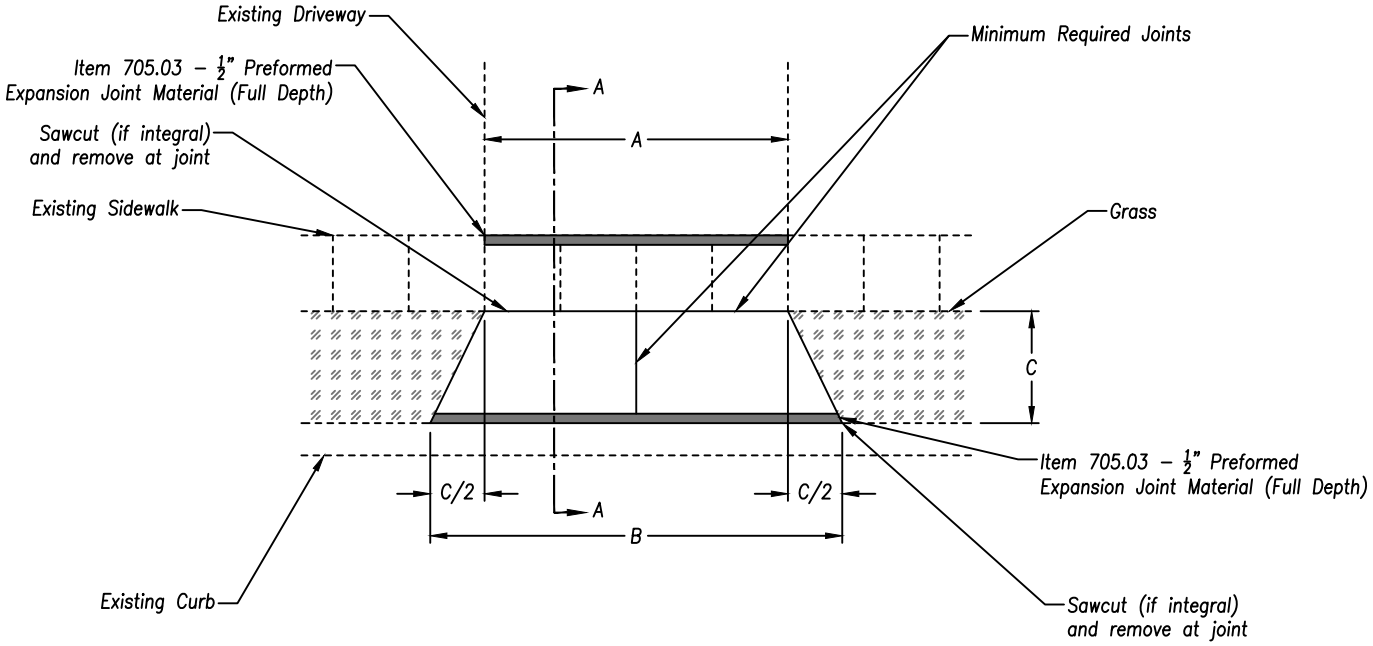
STANDARD CONSTRUCTION DRAWINGS

Item 452 Non-Reinforced Concrete Pavement Drive Apron

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-008.DWG



SECTION A–A



Notes:

1. The driveway shall be replaced in its existing size. No apron shall be wider at the back of curb than the sum of the driveway width at the face of sidewalk plus the width of the grass strip between the curb and the sidewalk (B = A + C).
2. Drive widths (A) are regulated by Section 300 of this manual.
3. All disturbed yard areas shall be restored to grade, seeded, and mulched before the work is approved for payment and shall be incidental to Item 452 – Non– Reinforced Concrete Pavement.
4. The finish applied to the concrete aprons shall be a light broom finish unless the resident requests a hand finish. All joints and outside edges may be tooled with an edger or joint tool after brooming or hand finishing to match adjacent concrete, as approved by the City.
5. The new apron shall meet the sidewalk and curb at existing elevations.
6. Concrete to be ODOT Class C. Minimum thickness are determined by use as follows:
   - 6.1. Residential Aprons: 7 inches
   - 6.2. Commercial Aprons: 9" inches

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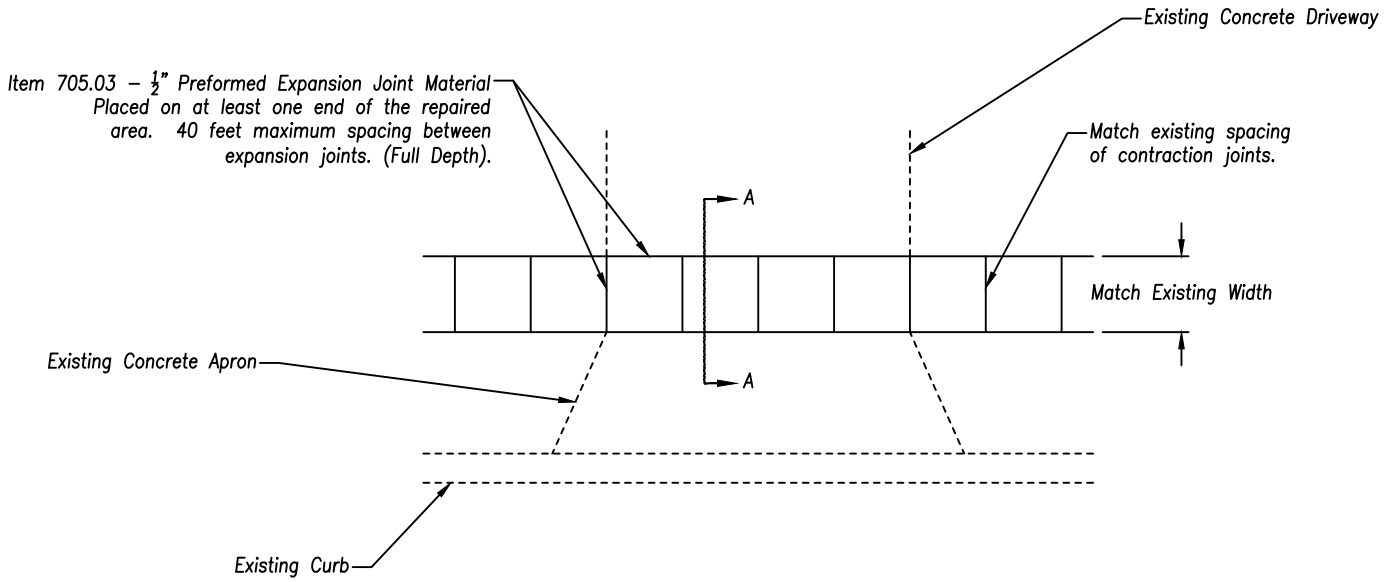
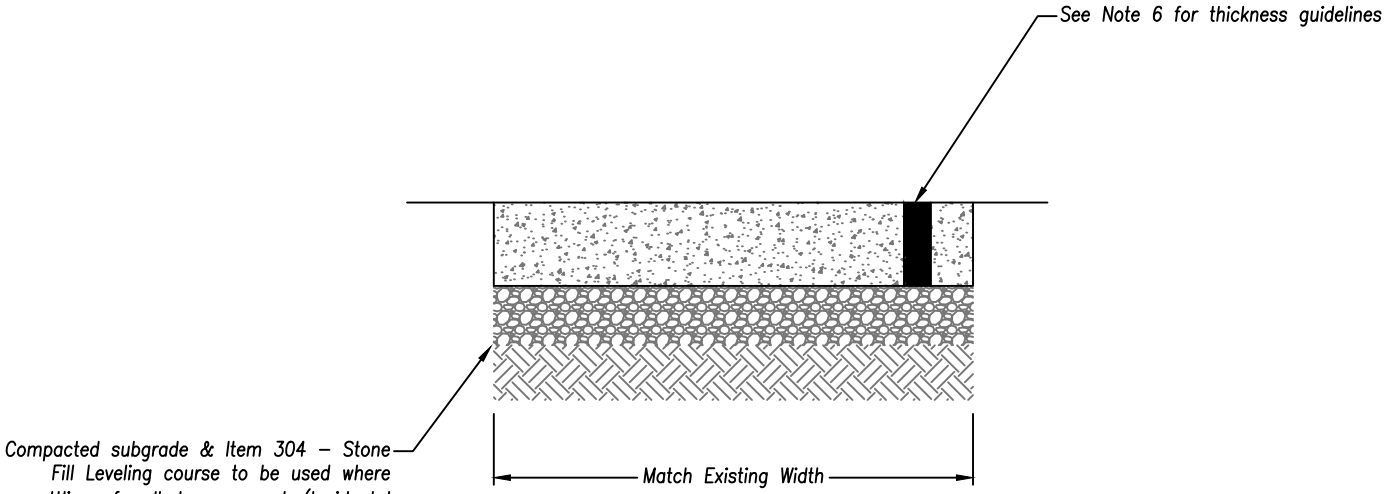
STANDARD CONSTRUCTION DRAWINGS

Item 608 Concrete Sidewalk

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-009.DWG



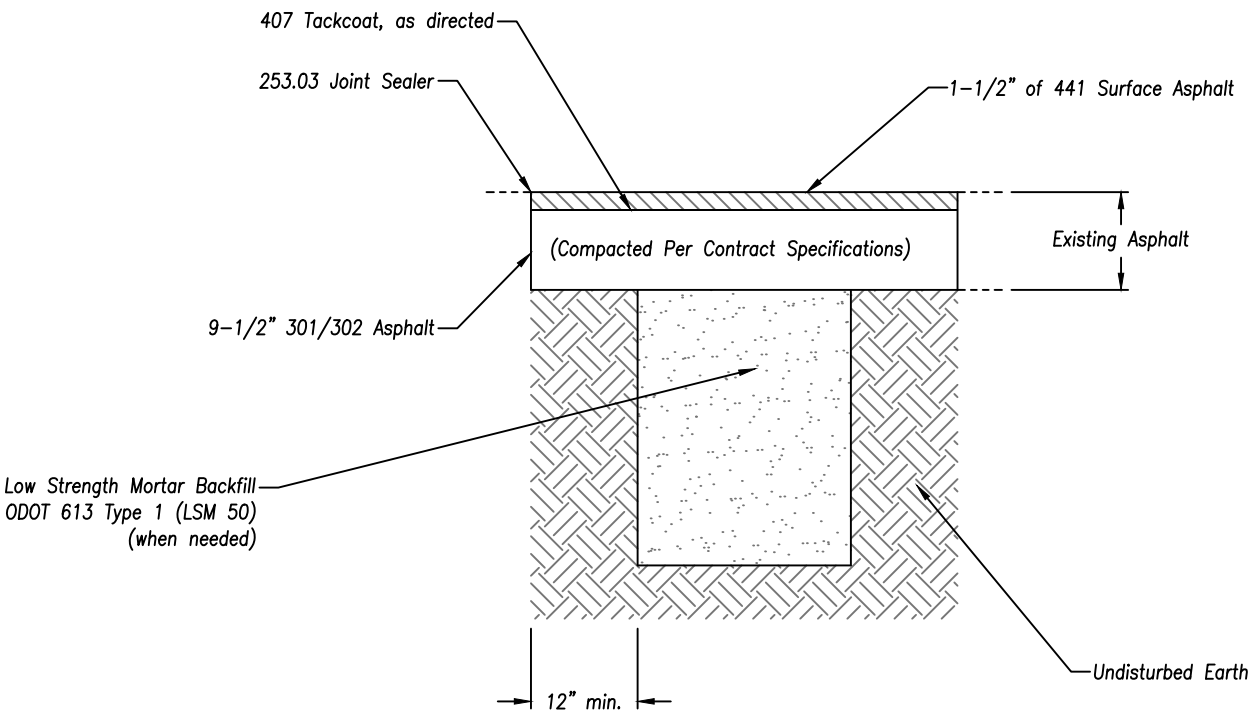


SECTION A–A

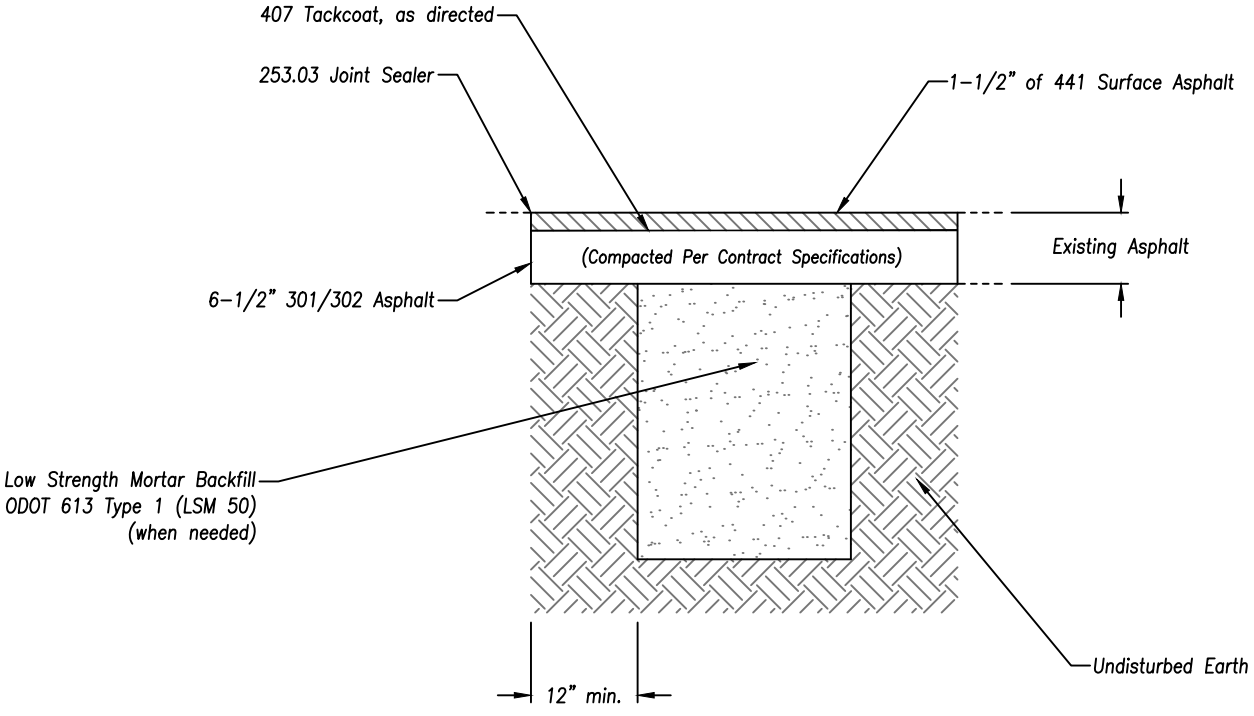
Notes:

1. The City shall mark in the field the walk to be replaced. Replacement walk shall match the line and grade of the existing walk and the joint pattern shall be maintained.
2. Item 705.03 – ½" Preformed Expansion Joint Material shall be placed on at least one end of the repaired area.
3. All repairs are to be made to the nearest joint.
4. The cost to repair any damage to adjacent walk or driveway by the contractor shall be incurred by the contractor.
4. The finish applied to the concrete walks shall be a light broom finish unless the resident requests a hand finish. All joints and outside edges may be tooled with an edger or joint tool after brooming or hand finishing to match adjacent concrete, as approved by the City.
6. Concrete to be ODOT Class C. Minimum thickness are determined by use as follows:
   - 6.1. Standard Walk: 4 inches, or match existing, whichever is greater.
   - 6.2. Walk through Residential Aprons: 7 inches
   - 6.3. Walk through Commercial Aprons: 9" inches
7. All disturbed yard areas shall be restored to grade, seeded, and mulched beofr ethe work is approved for payment and shall be incidental to Item 608 – Sidewalk, Remove and Replace.
8. Sidewalk in all new developments and redevelopments shall be 5 feet wide.

Full Depth Asphalt Concrete Pavement



Type II – 11" Repair



Type I – 8" Repair

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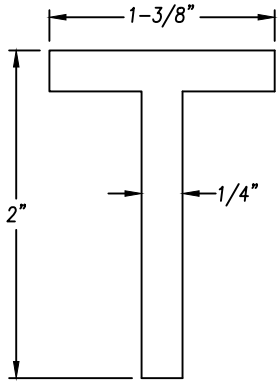
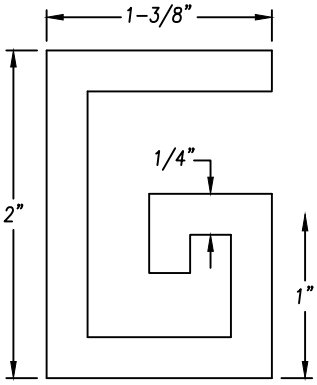
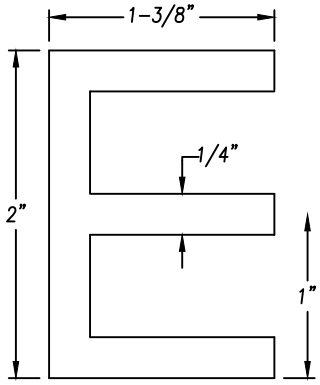
STANDARD CONSTRUCTION DRAWINGS

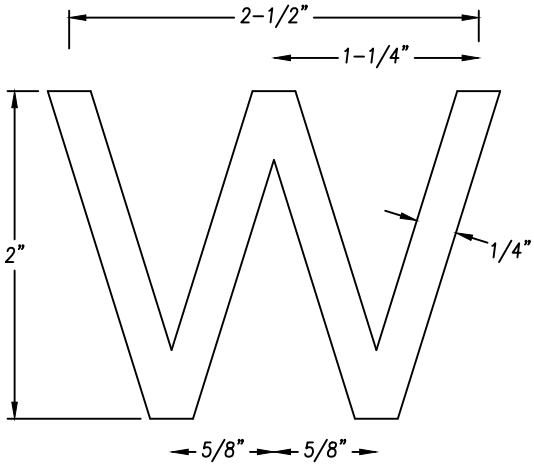
Utility Service Location Designation

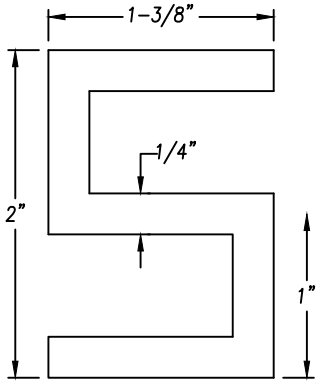
DATE: 05/04/2020	SCALE: NONE	FILE: 2020-011.DWG

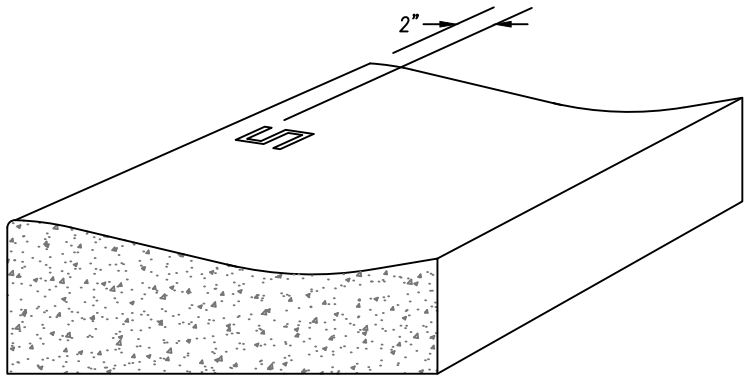












Notes:

1. Letters to be impressed directly into the fresh concrete a depth of 1/2" directly above the point where services come across the curb.

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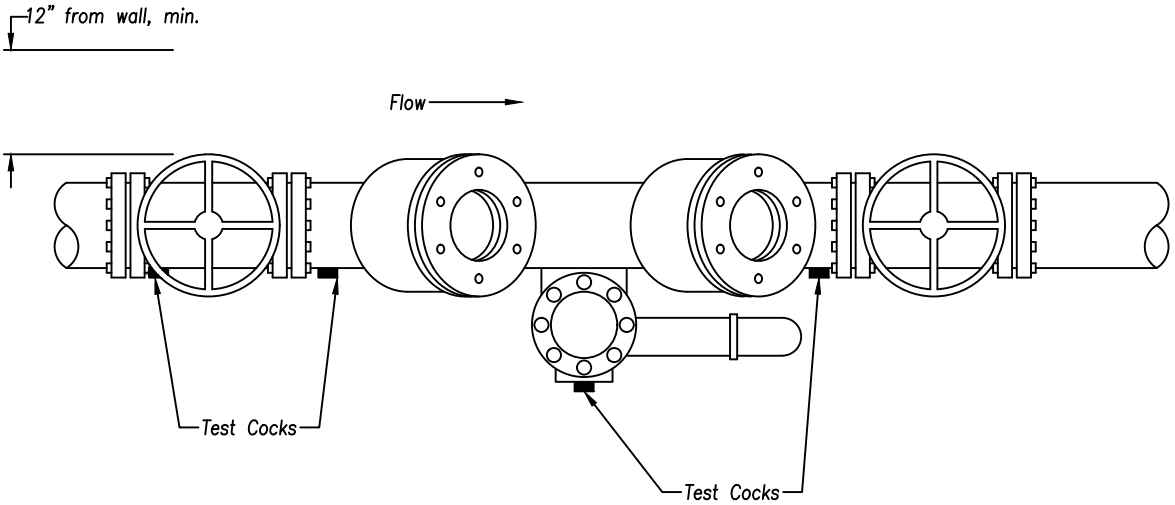
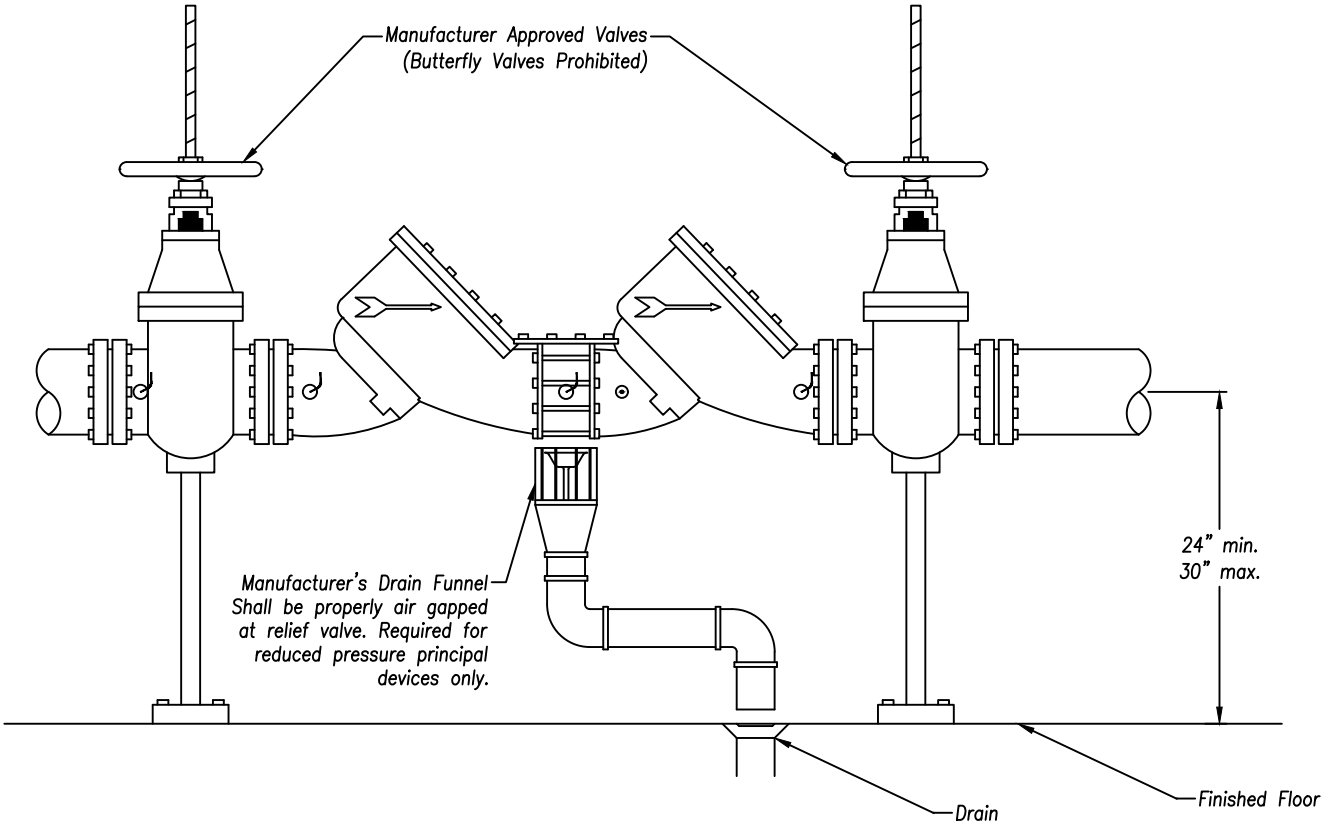
Backflow Preventer General Setting

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-012.DWG





Notes:
1. Backflow preventer shall always be installed downstream of meter.
2. Connection(s) to water line between meter and backflow preventer are prohibited.
3. Assembly to be mounted inside building or heated enclosure.

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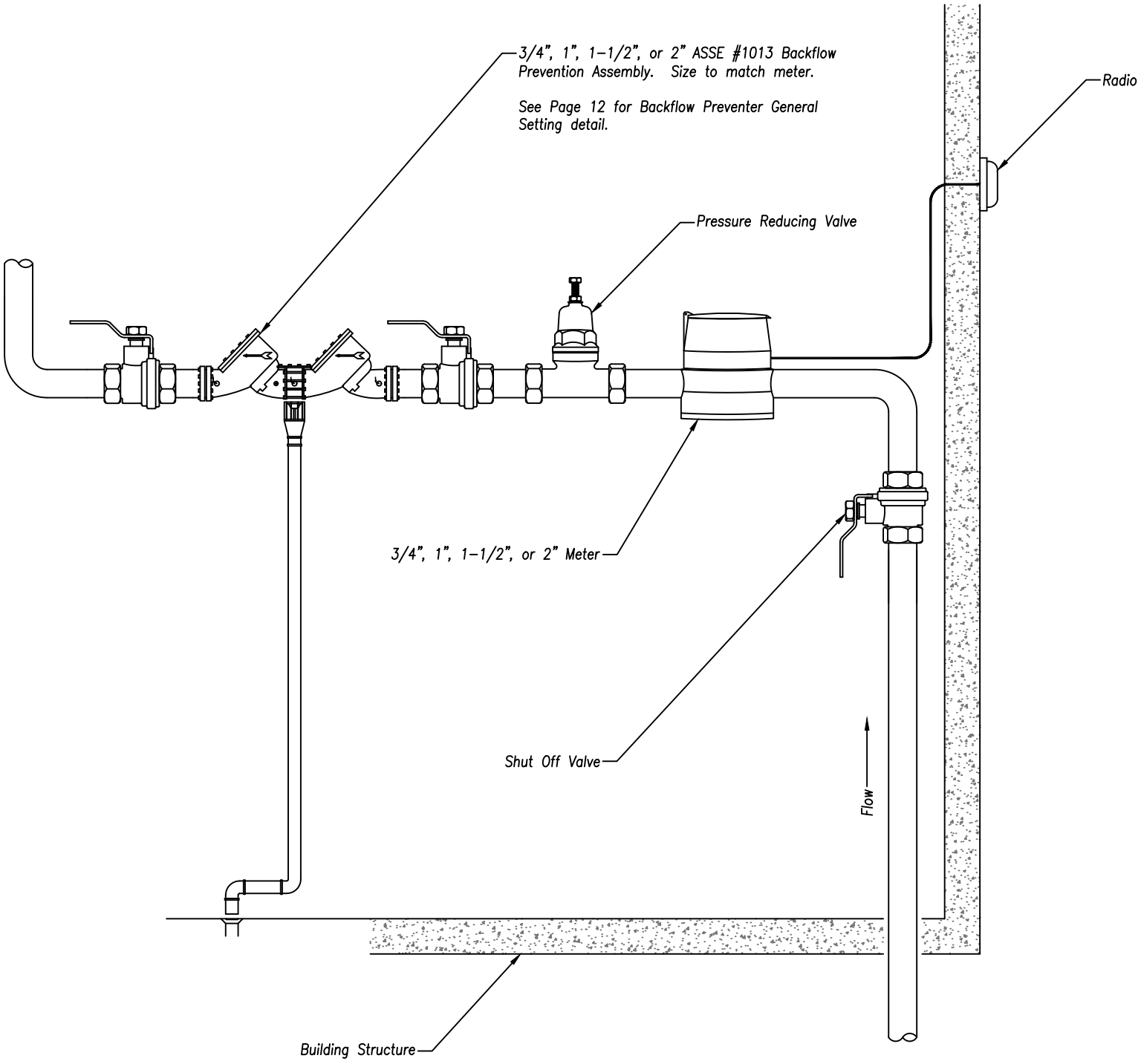
STANDARD CONSTRUCTION DRAWINGS

Indoor Meter - Commercial Meter & BFP

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-013.DWG



Notes:
1. See page 14 for commercial meters located outside of the building.
2. City of Fairfield Public Utilities-provided radio transmitter shall be installed outside of the building.

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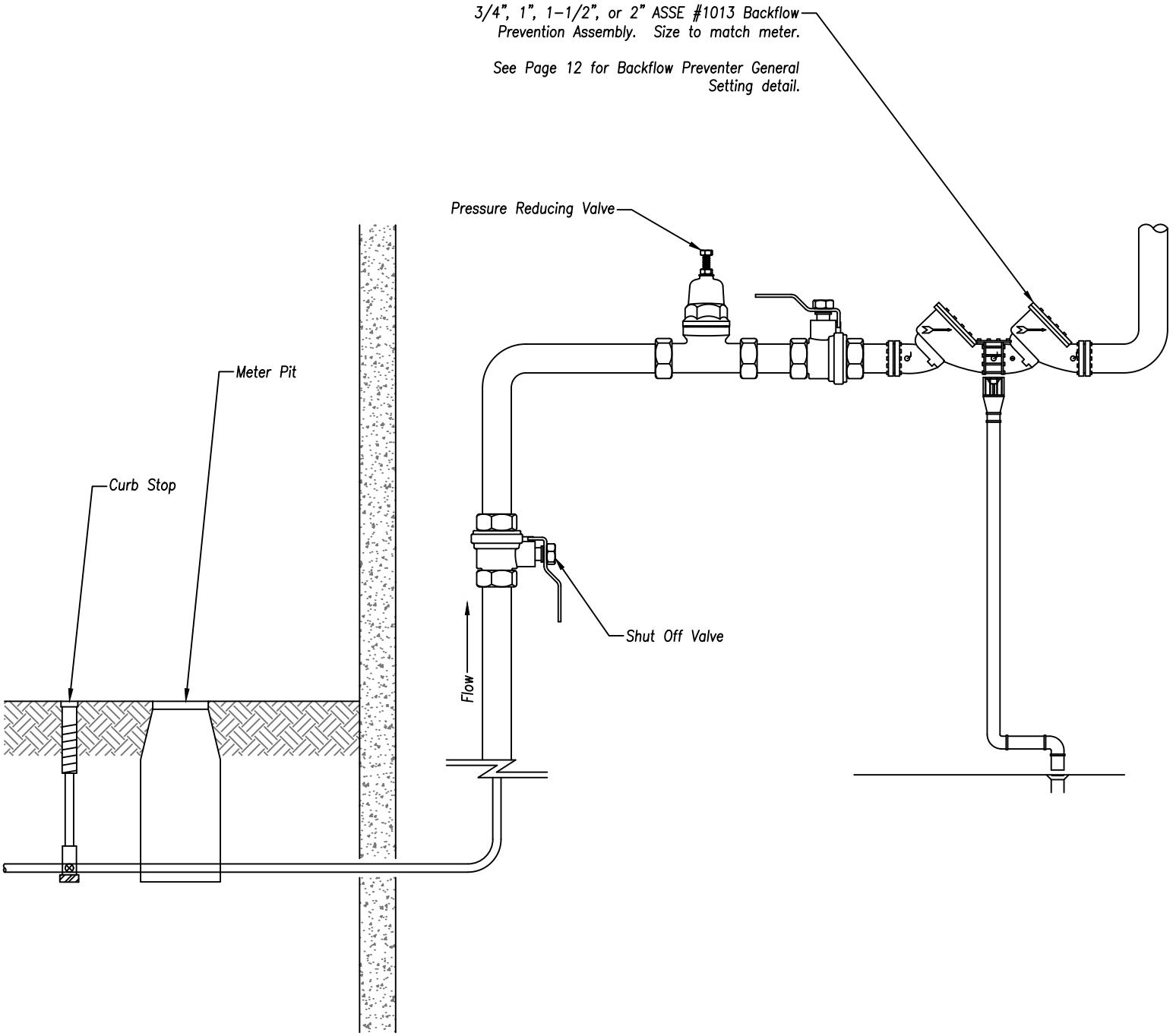
STANDARD CONSTRUCTION DRAWINGS

Outdoor Meter - Commercial Meter & BFP

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-014.DWG



Notes:
1. See page 13 for commercial meters located inside of the building.

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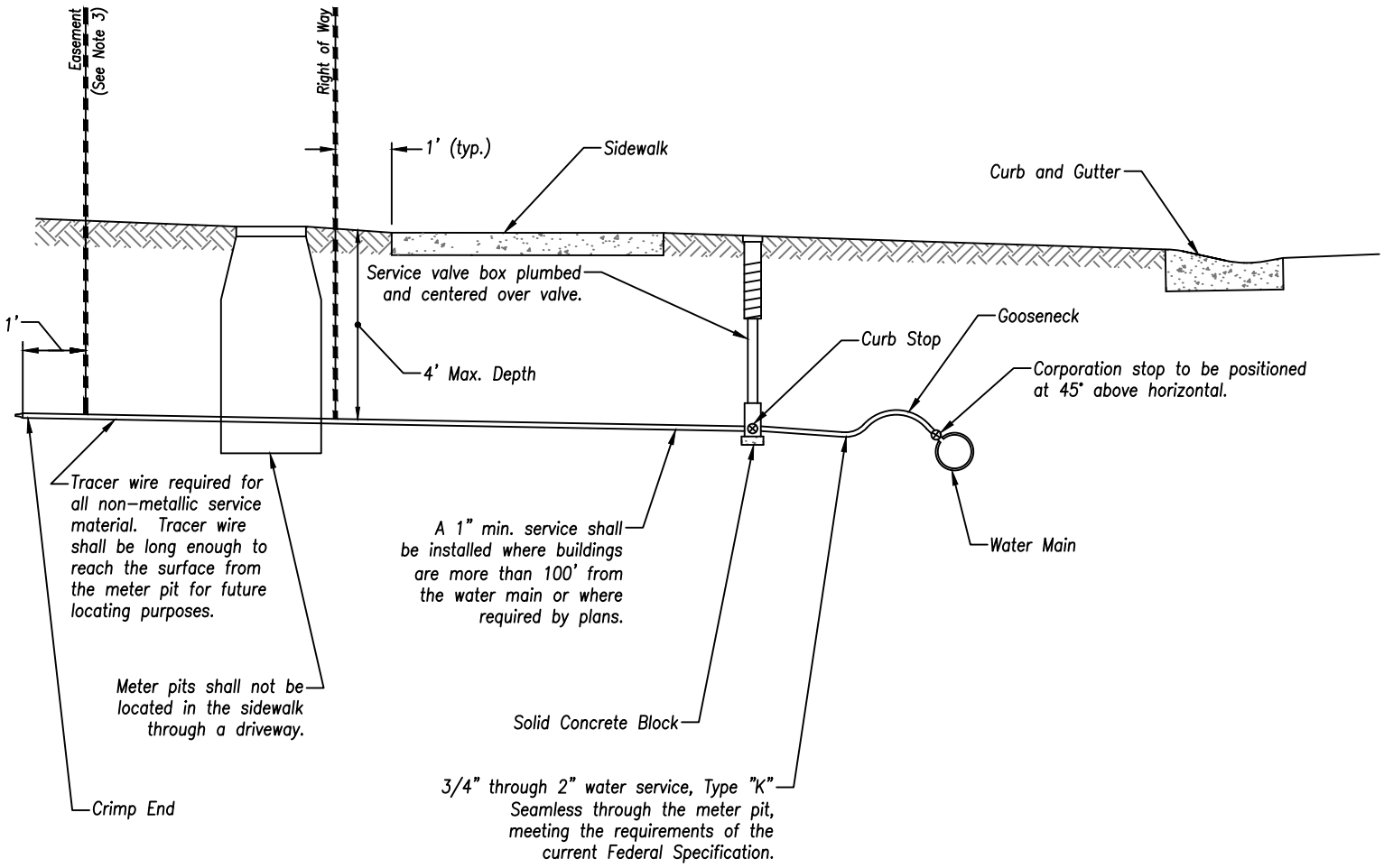
STANDARD CONSTRUCTION DRAWINGS

Water Service Installation

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-015.DWG



Notes:

1. Water service line shall not be buried in the same trench as other utilities. When the service parallels a sewer line, maintain as much separation as practical, 10' preferred.
2. Service box shall be plumbed & centered over curb stop.
3. If a utility easement exists behind the right-of-way line, the service line shall be extended to 1' behind the easement & the end crimped.
4. Water service shall be bedded with sand.

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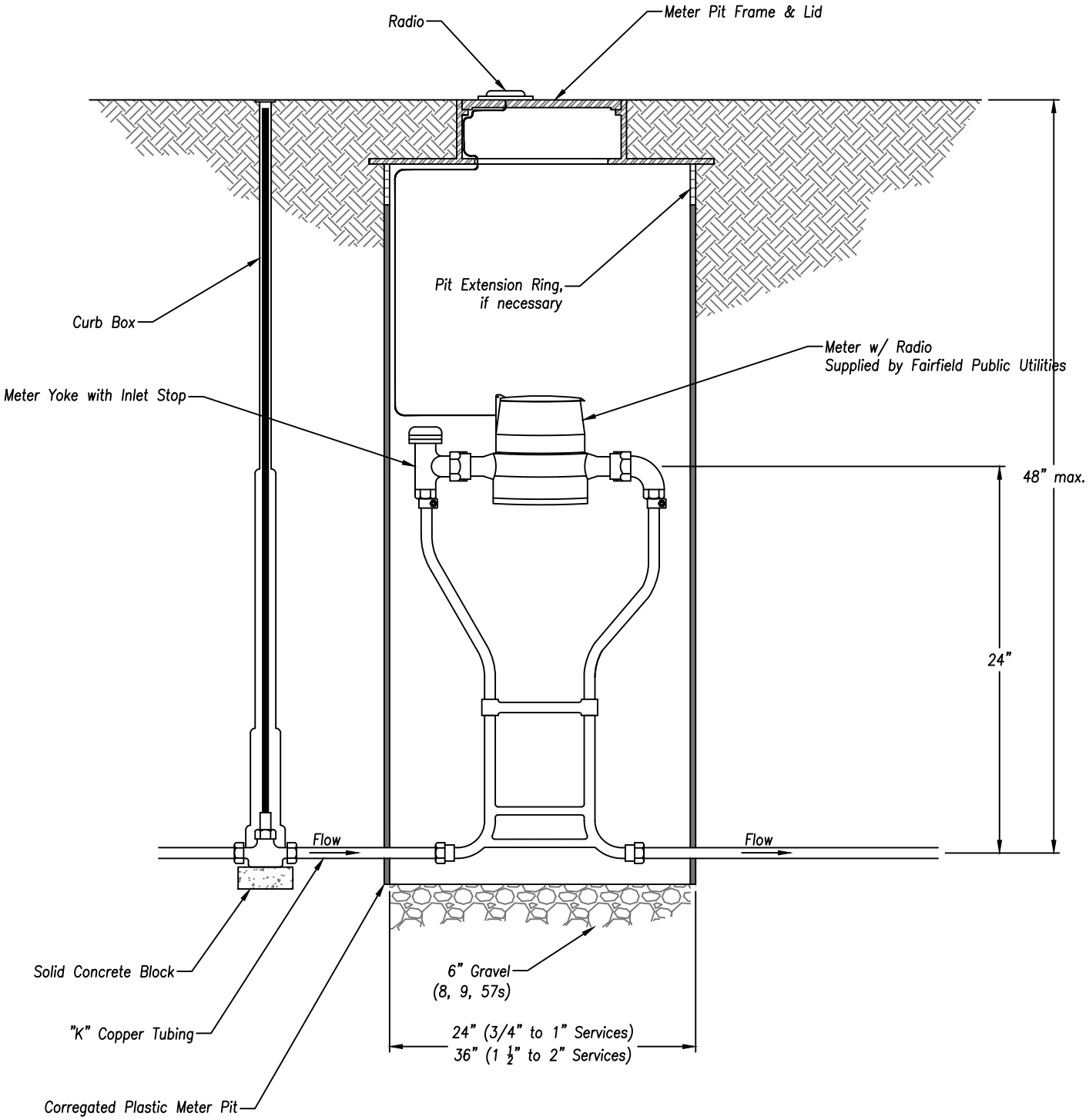
STANDARD CONSTRUCTION DRAWINGS

Residential Meter Pit

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-016.DWG



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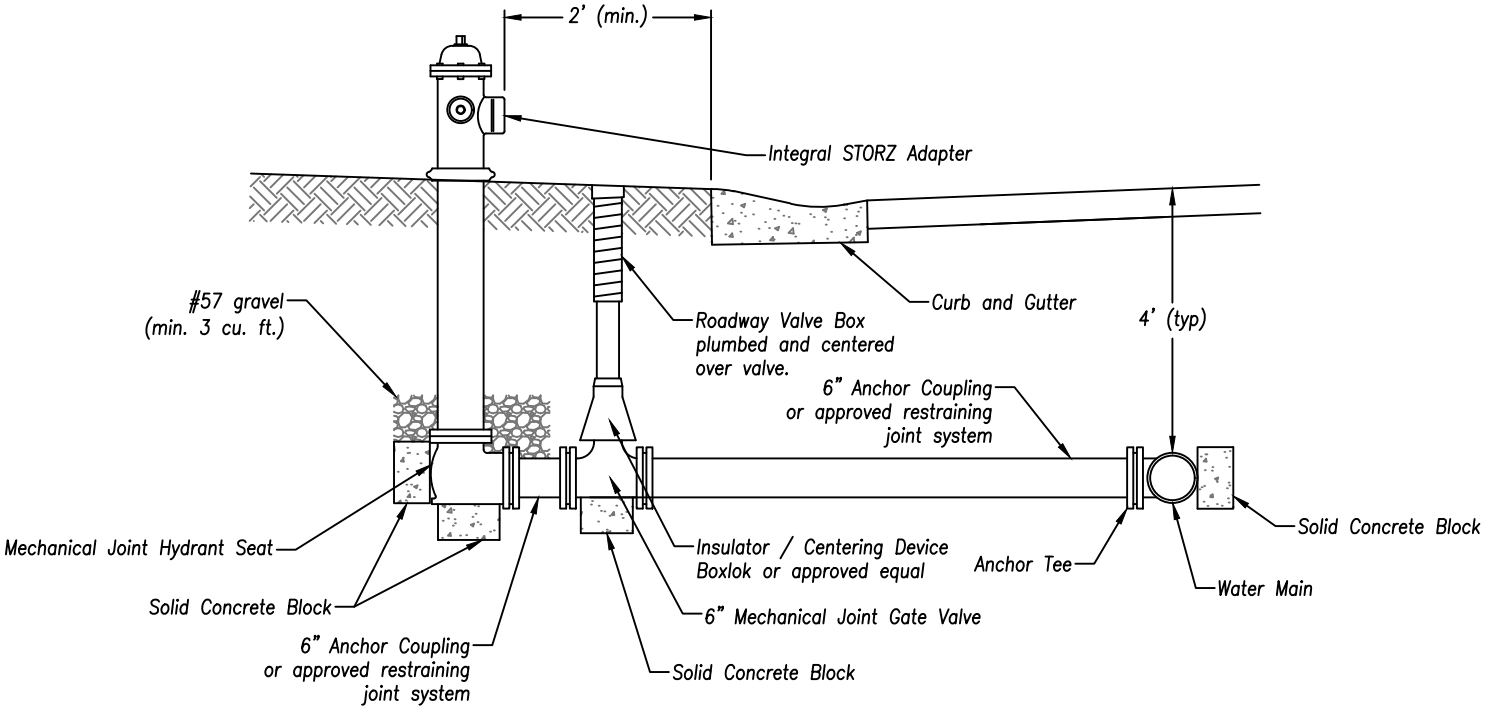
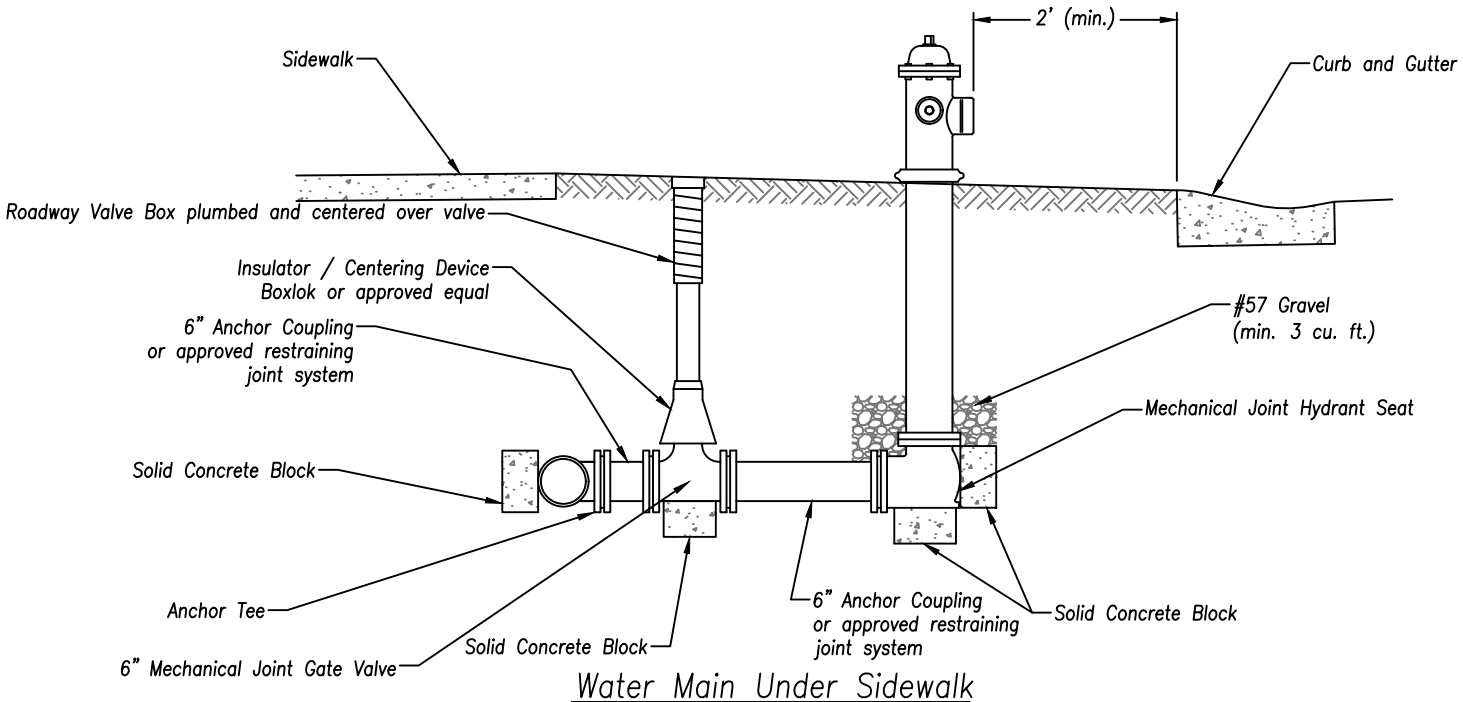
STANDARD CONSTRUCTION DRAWINGS

Fire Hydrant Installation (Page 1/2)

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-017.DWG



Water Main Under Street Pavement



Water Main Under Sidewalk

Notes:
1. Fire hydrant shall be AWWA C502 and FM-1510 approved.
2. Polyethylene wrap all ductile iron joints and fittings, up to and including hydrant shoe flange.
3. All joints to be installed with an approved restraining joint system.

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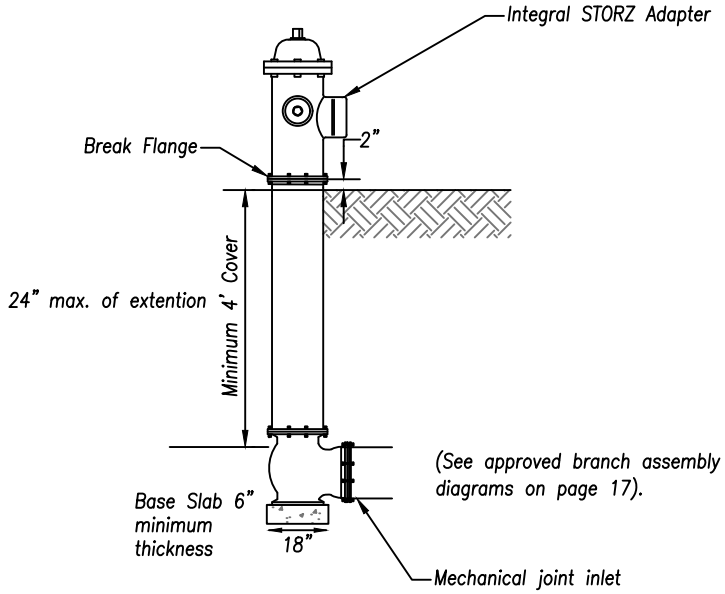
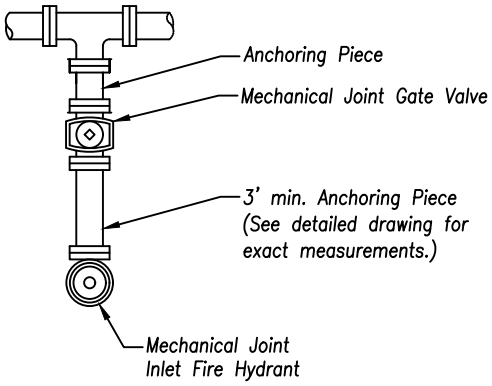
STANDARD CONSTRUCTION DRAWINGS

Fire Hydrant Installation (Page 2/2)

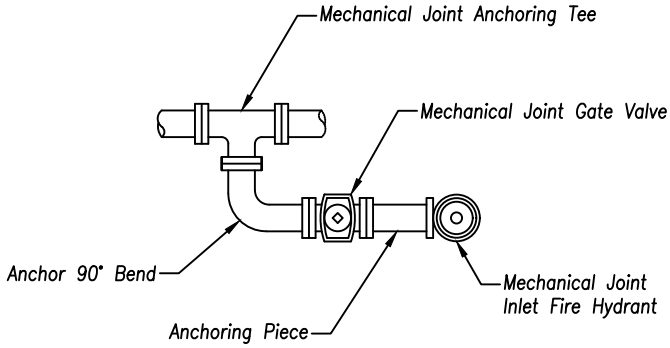
DATE: 05/04/2020	SCALE: NONE	FILE: 2020-018.DWG



Fire Hydrant Profile View



Type "A" Hydrant



Type "B" Hydrant

Fire Hydrant Details	
Dia. – Main Valve Opening	5-1/4 Inches W/ Bronze Seat
Dia. – Pumper Connection	5 Inches Storz Integral
Dia. – Hose Connection	2-1/2 Inches
Fairfield Thread Type	3.187 X 7
Shape – Caps & Operating Nut	Pentagon W/ Weathershield And One Piece Bronze Operating Nut
Dimensions – Operating Nut	1-1/2 Inches
Direction Of Closing	Right (clockwise)
Color To Be Painted (public)	Osha Safety Yellow
Color To Be Painted (private)	Osha Safety Red
Specific Model Or Models Required	Mueller A423, American Darling B-84-b, Or Kennedy K-81-a

1. All main line pipe and fittings shall consist of Class 53 ductile iron pipe and fittings C151 and C153 with polyethylene wrap for hydrant branch, barrel, and fittings.
2. Private hydrants connected directly to a public main shall meet public standards.

Notes:

1. In non-curbed areas, the distance from the centerline of the water main to the centerline of the fire hydrant shall be shown in the fire hydrant notes on the detailed drawings.
2. Excavation around fire hydrant shall be backfilled completely with ¾" gravel course, free of sand, to within 1' of the finished surface of the ground.

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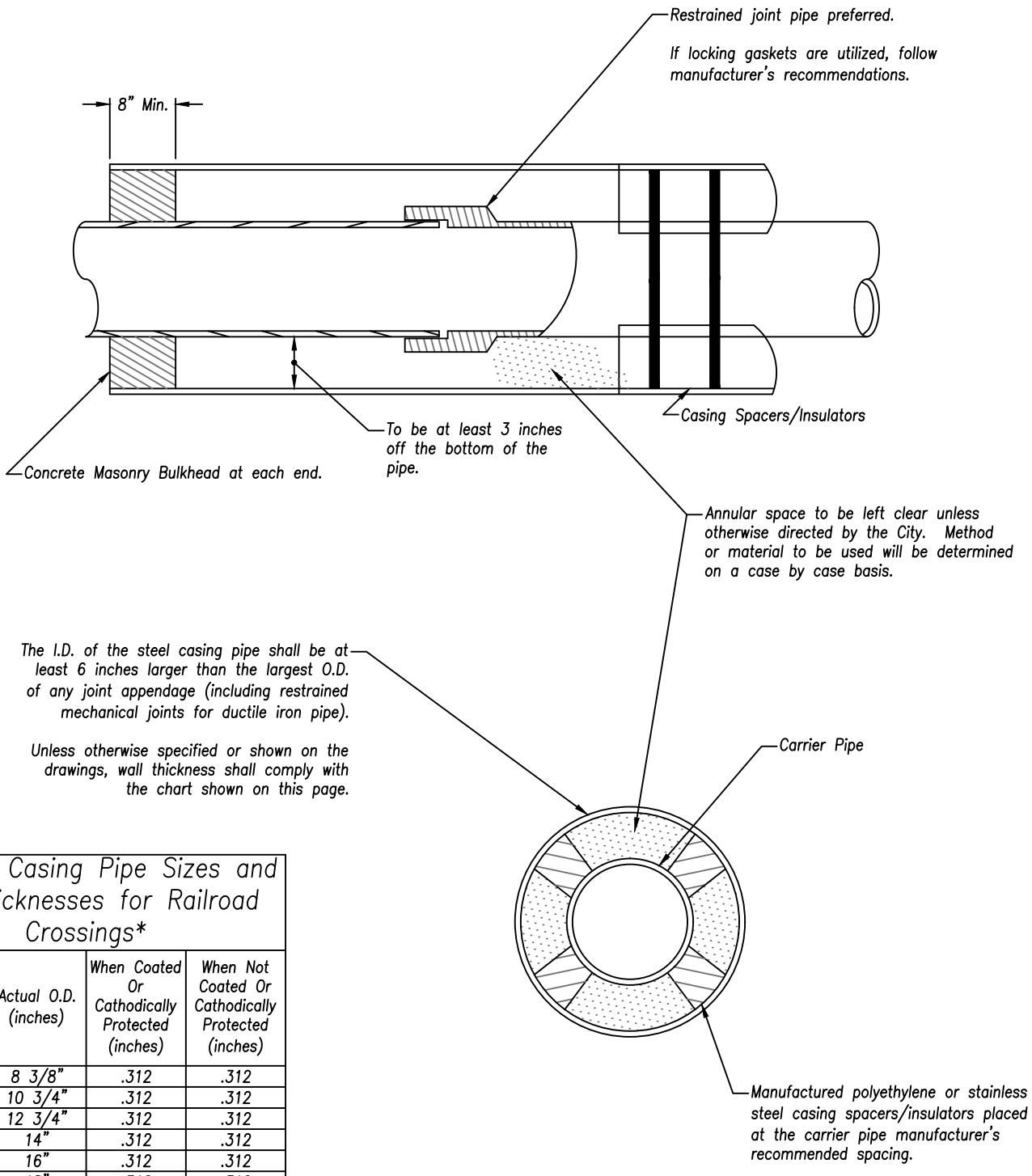
STANDARD CONSTRUCTION DRAWINGS

Casing Pipes

DATE: 05/04/2020 | SCALE: NONE | FILE: 2020-019.DWG



Required Casing Pipe Sizes and Wall Thicknesses for Railroad Crossings*

Nominal Diameter (inches)	Actual O.D. (inches)	When Coated Or Cathodically Protected (inches)	When Not Coated Or Cathodically Protected (inches)
8"	8 3/8"	.312	.312
10"	10 3/4"	.312	.312
12"	12 3/4"	.312	.312
14"	14"	.312	.312
16"	16"	.312	.312
18"	18"	.312	.312
20" & 22"	20" & 22"	.312	.344
24"	24"	.312	.375

*Based on E80 loadings with a minimum cover of 4'-6".

Steel casing pipe shall have a steel yield strength of 35,000 PSI and meet ASTM A139 Grade B requirements.

No hydrotest required.

Chart based on recommendations of the American Railway Engineering Association.

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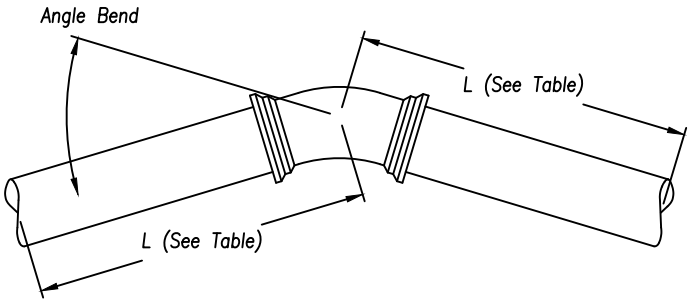
STANDARD CONSTRUCTION DRAWINGS

Restrained Joint Lengths

DATE: 05/04/2020 | SCALE: NONE | FILE: 2020-020.DWG



Required Restraint Lengths, L								
		Diameter of Watermain						
		6"	8"	10"	12"	14"	16"	Larger Than 16"
Angle Bend	11-1/4°	6'	8'	9'	11'	13'	14'	By Design
	22-1/2°	11'	15'	18'	22'	25'	28'	
	45°	23'	31'	37'	44'	51'	58'	
	Tee, 90°	28'	37'	47'	66'	77'	90'	

Notes:
1. Fitting must be restrained in all cases.
2. Restraining joint systems are acceptable when designed in accordance with "Thrust Restraint Design for Ductile Iron Pipe", published by the Ductile Iron Pipe Research Association (DIPRA). Restraining glands, manufactured of ductile iron conforming to ASTM A536-84 specifications, or locking gaskets such as Field Lok, or equal, may be used.

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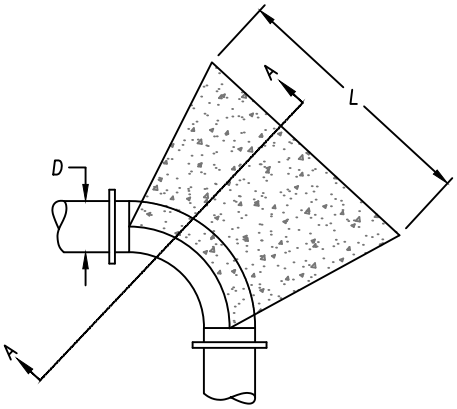
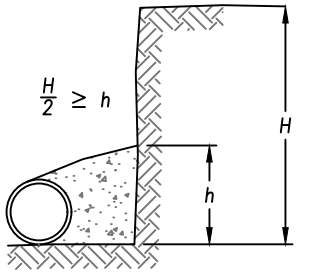
Thrust Blocking

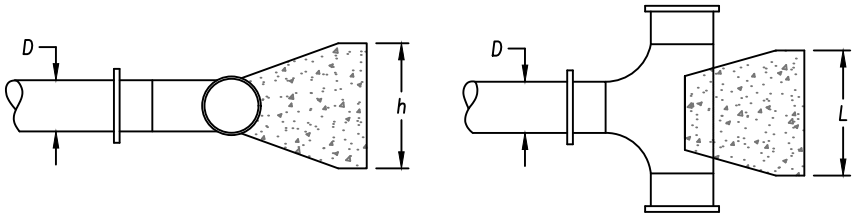
DATE: 06/01/2020	SCALE: NONE	FILE: 2020-021.DWG





SECTION A–A

Thrust Block at Elbow



Thrust Block at Tees

Notes:

1. Bearing depth (h) shall be determined from bearing area required (see table). Bearing length (L) will be 1' minimum.
2. The surface of the bearing area shall be smooth undisturbed earth.
3. ODOT Class C Concrete shall be used for all blocking.
4. Height of blocking to be less than or equal to 1/2 of the depth of the trench. See Section A–A.
5. Concrete anchor blocking will be permitted for work on existing mains. New watermain installation must be restrained by restraining joint systems or locking gaskets such as FieldLok, or equal, provided that sufficient length for mechanical restraint is available.

Minimum Bearing Area Required, h x L (sq. ft.)

	Horizontal Bends				
Dia., D	11 1/4°	22 1/2°	45°	90°	Tee or Dead End
4"	1	1	1	2	2
6"	1	2	3	4	3
8"	1	2	4	7	5
10"	2	3	6	11	8
12"	2	4	8	15	11
16"	4	7	14	26	18

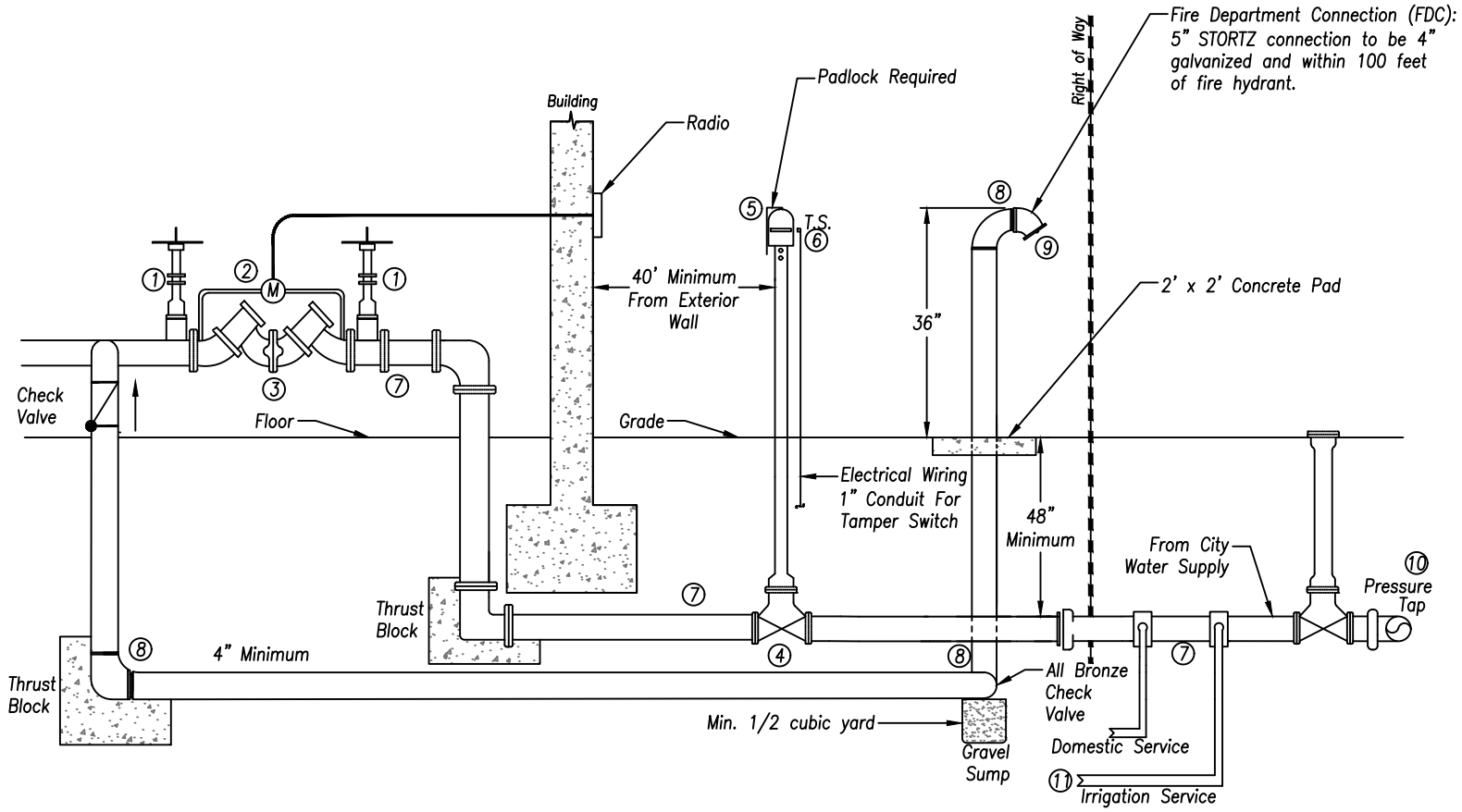
Areas tabulated are for single fittings and bearing pressure of 2000 lb/sf. When more than one fitting is used, the bearing area should be increased proportionately.

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Interior Fire Line Double Check Detector Assembly

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-022.DWG



Valve Legend:

1. Valve, O.S.&Y.
2. Bypass Line w/ Meter, Radio, and Double Check Backflow Preventer
3. Reduced Pressure Double Check Detector Assembly (meets or exceeds ASSE 1047, AWWA C511-92)
4. Flanged NRS Resilient Wedge Indicator Post Gate Valve (meets or exceeds AWWA C509 and C515)
5. Post Indicator Valve
6. Potter Tamper Switch M PCVS-2, Two Sets of Contacts, 120V
7. Class 53 Ductile Iron Piping and Fittings From Main to Detector Check
8. 4" Galvanized 90° Elbow
9. 4"x5" STORTZ Connection with 30° Turndown and Blind Flange
10. Pressure Tap meeting City of Fairfield Specifications
11. Valved and Metered Domestic / Irrigation Service with Curb Box. Backflow preventers required for domestic and irrigation lines.

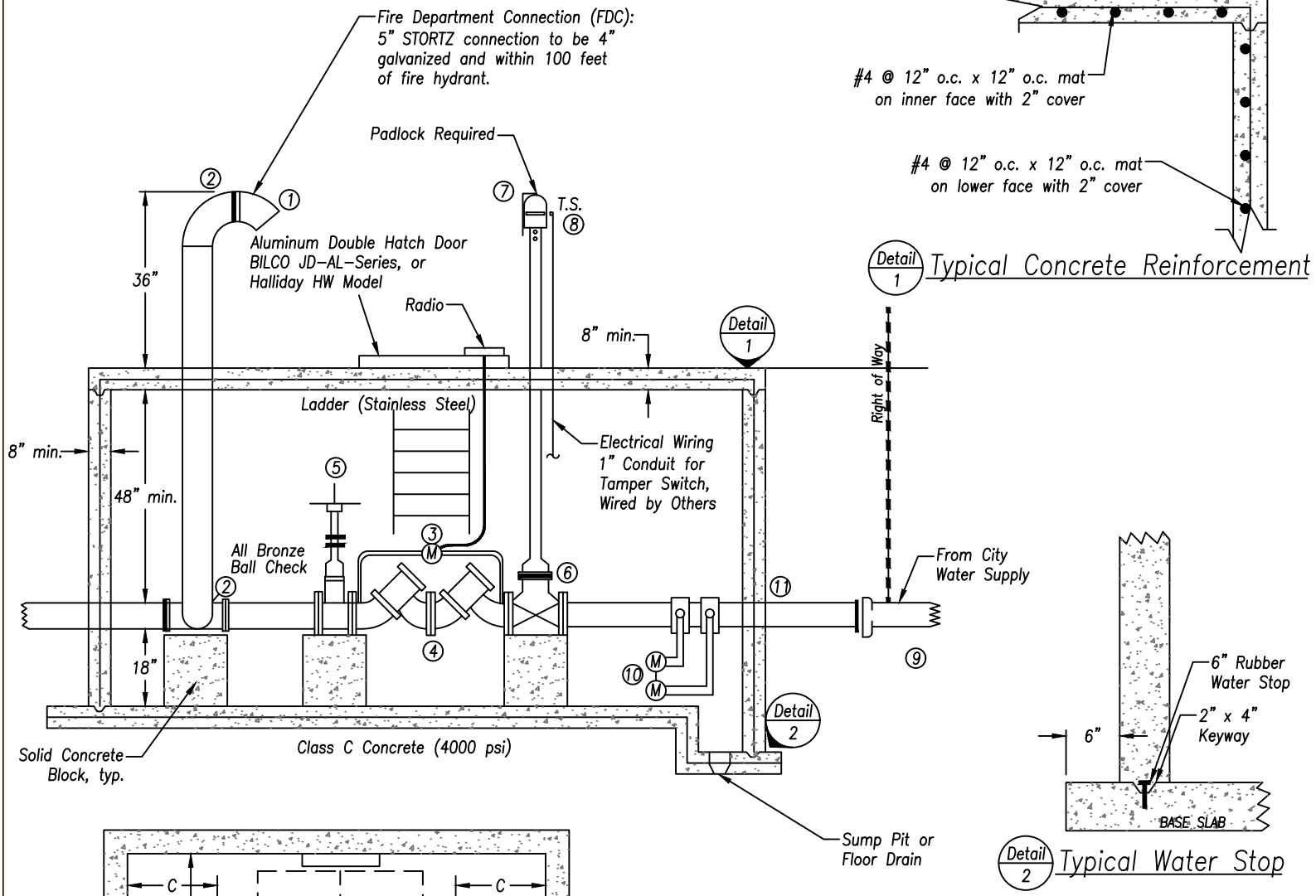
M. Water Meter

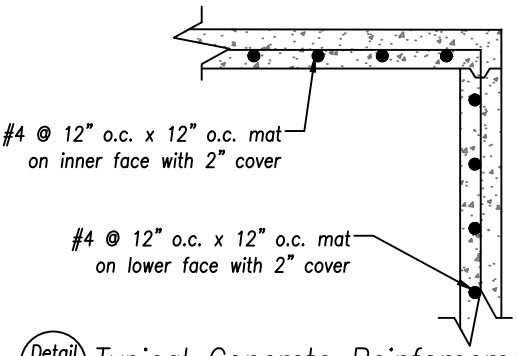
FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Fire Line Meter Vault with Double Check Detector Assembly

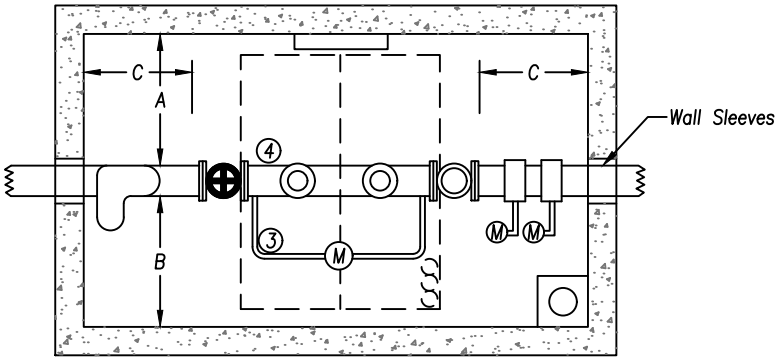
DATE: 05/04/2020 | SCALE: NONE | FILE: 2020-023.DWG





Detail 1 Typical Concrete Reinforcement

Detail 2 Typical Water Stop



Precast pit to be approved by Director of Public Utilities

Valve Legend:

1. 4" X 5" STORTZ Connection with 30° Turndown and Blind Flange
2. 4" Galvanized 90° Elbow
3. Bypass Line with Meter, Radio, and Double Check Backflow Preventer
4. Double Check Detector Assembly (meets or exceeds ASSE 1048 AWWA C510-97)
5. Valve, O.S.&Y.
6. Flanged Resilient Wedge Indicator Post Gate Valve (meets or exceeds AWWA C509 and C515)
7. Indicator Post
8. Potter Tamper Switch M PCVS-2, Two Sets of Contacts, 120V
9. Pressure Tap to City of Fairfield Specifications
10. Valved and Metered Domestic / Irrigation Services
11. Class 53 Ductile Iron Pipe and Fittings (meets or exceeds AWWA C151 AND C153). Domestic and Irrigation Backflow Preventers are Required.

M Water Meter

Minimum Clearances for Detector Check Installation

Meter Size	A	B	C	Door Size
4" X 1"	41-1/2"	41-1/4"	25"	48" X 48"
6" X 1"	45"	45"	28"	48" X 72"
8" X 1"	48-3/4"	49-1/4"	30"	48" X 72"
10" X 1"	54"	50"	34"	48" X 72"
10" X 12" X 1"	58"	50"	36"	48" X 72"

Clearances for Fire Pit Meter

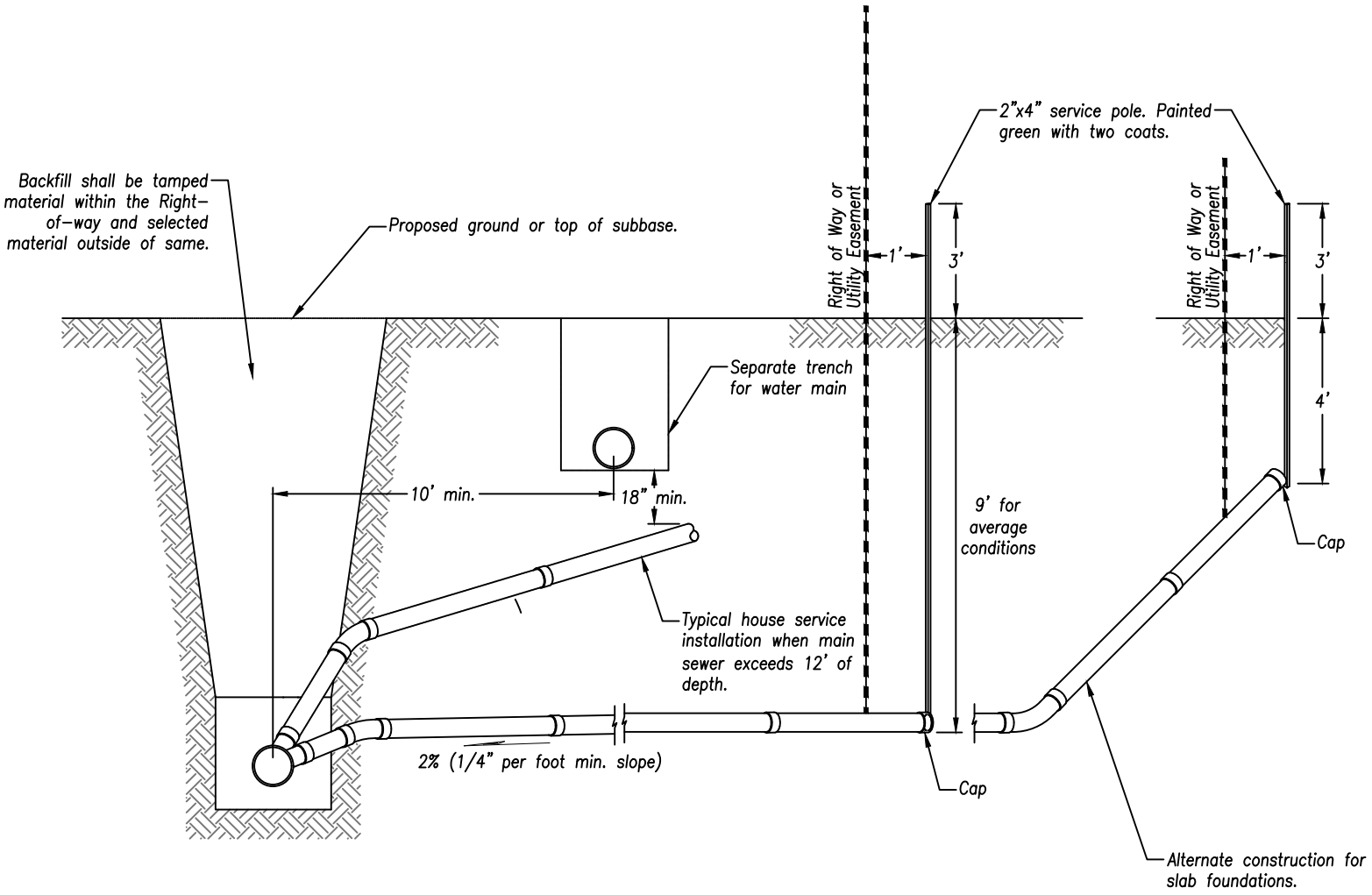
Meter Size	A	B	C	Door Size
2"	37"	28"	21"	36" X 36"
3"	38"	29"	23"	36" X 36"
4"	39"	30"	25"	36" X 36"
5"	43"	30"	28"	60" X 60"
6"	36"	36"	30"	60" X 60"

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Service Line Details

DATE: 05/04/2020 | SCALE: NONE | FILE: 2020-024.DWG



Notes:

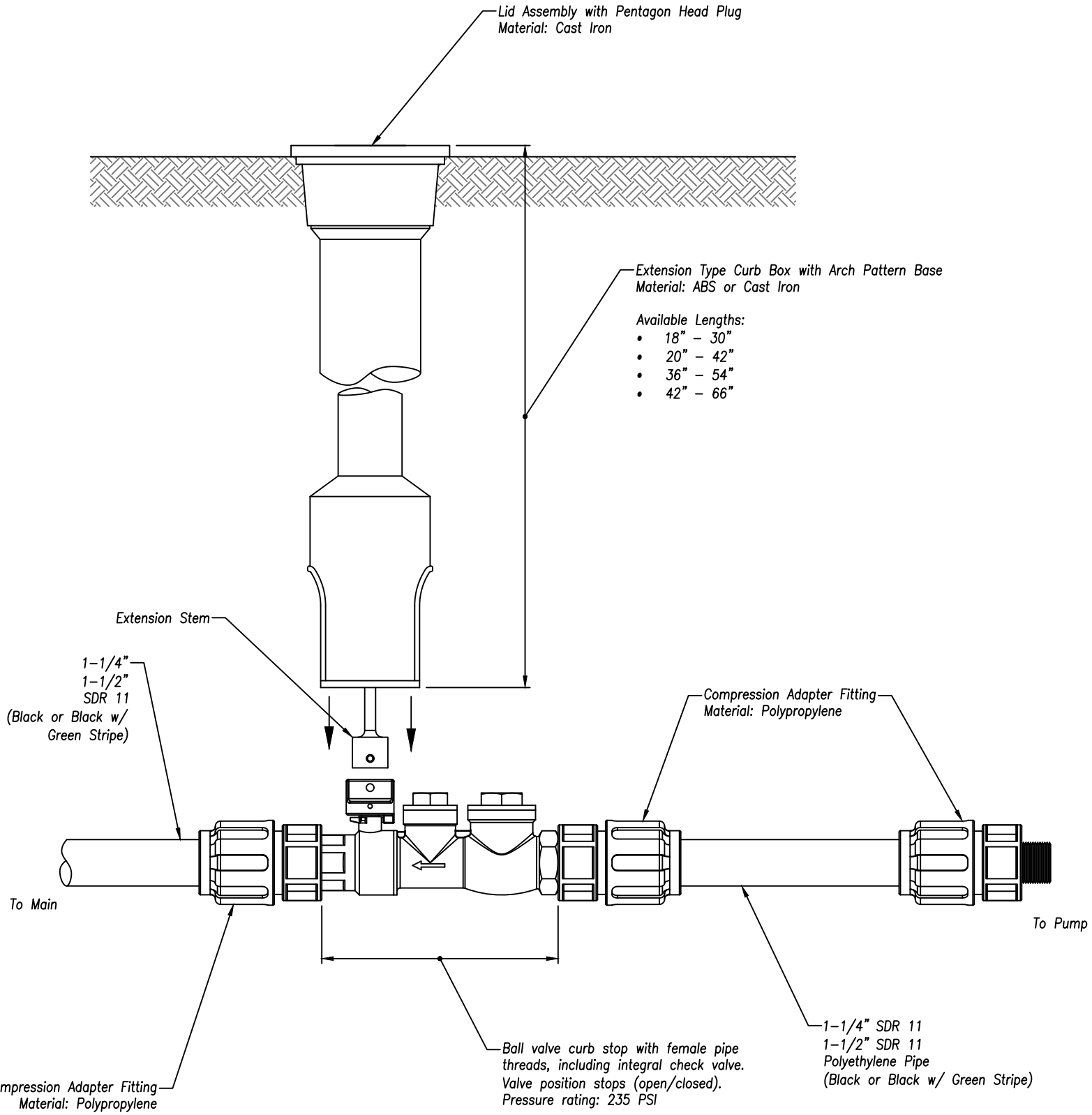
1. Service line minimum depth of cover will be 36". Written permission will be required for coverage of less than 36".
2. Service line to be perpendicular to main sewer unless approved otherwise.
3. Services shall be located at points approved by the City. At each capped service line there shall be placed a service pole painted green. No services will be accepted unless they are reported by the contractor.
4. Service shall be constructed at 2% (1/4" per foot) minimum slope.
5. If a utility easement exists behind the Right-of-Way line, the service line shall be constructed across the easement. Otherwise, it shall be constructed to 1 foot behind the Right-of-Way line.
6. All excavation, sheeting, shoring, and bracing shall comply with all applicable OSHA standards.
7. Provide 3' of separation between lowest level served by gravity and crown of main sewer line at connection.

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Force Main HDPE Lateral Assembly with Stainless Steel Curb Stop (1-1/4" & 1-1/2")

DATE: 05/04/2020 | SCALE: NONE | FILE: 2020-025.DWG



Notes:

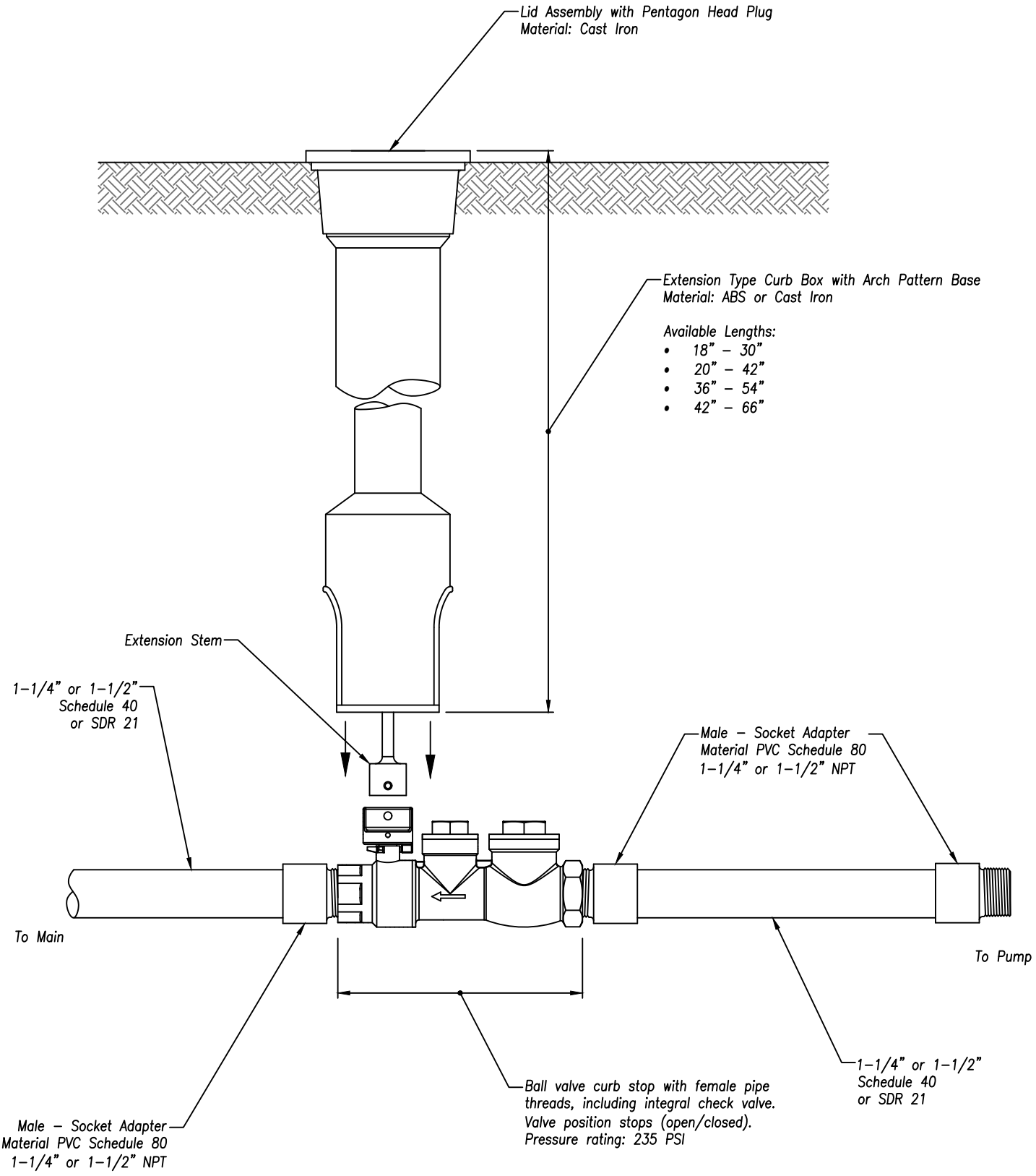
1. To assemble, apply a double layer of teflon tape and a layer of pipe dope to the threads on the plastic fittings and install per the manufacturer's instructions.
2. Assembly to be pressure tested.
3. Assembly is to be used with SDR11 HDPE pipe.

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Force Main PVC Lateral Assembly with Stainless Steel Curb Stop (1-1/4" & 1-1/2")

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-026.DWG



Notes:

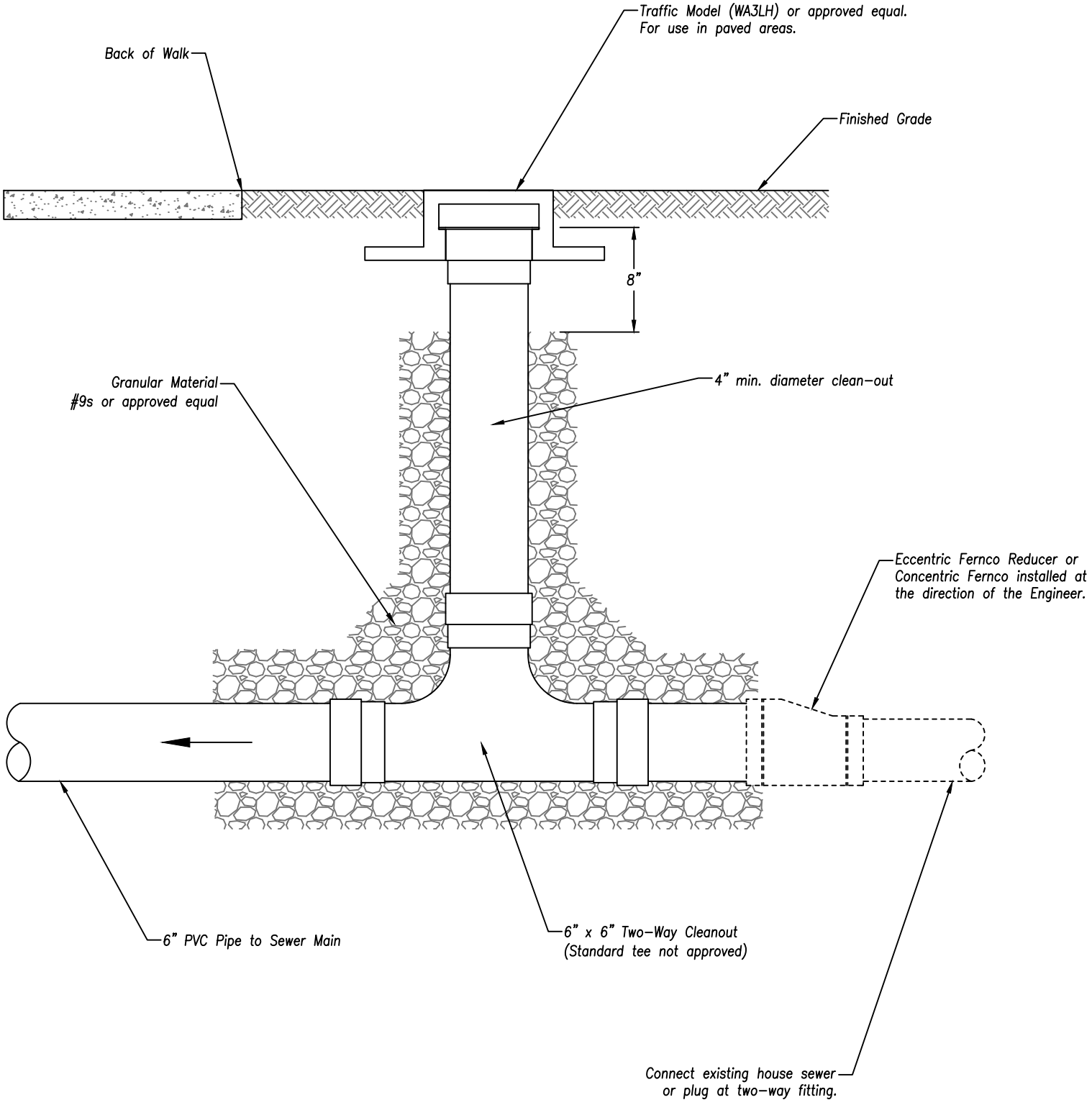
1. To assemble, apply a double layer of teflon tape and a layer of pipe dope to the threads on the plastic fittings and install per the manufacturer's instructions.
2. Assembly to be pressure tested.
3. Assembly is to be used with PVC pipe. PVC shall be Schedule 40 or SDR-21 w/ Schedule 80 fittings.

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Two-Way Clean Out
(For Sanitary and Storm Applications)

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-027.DWG



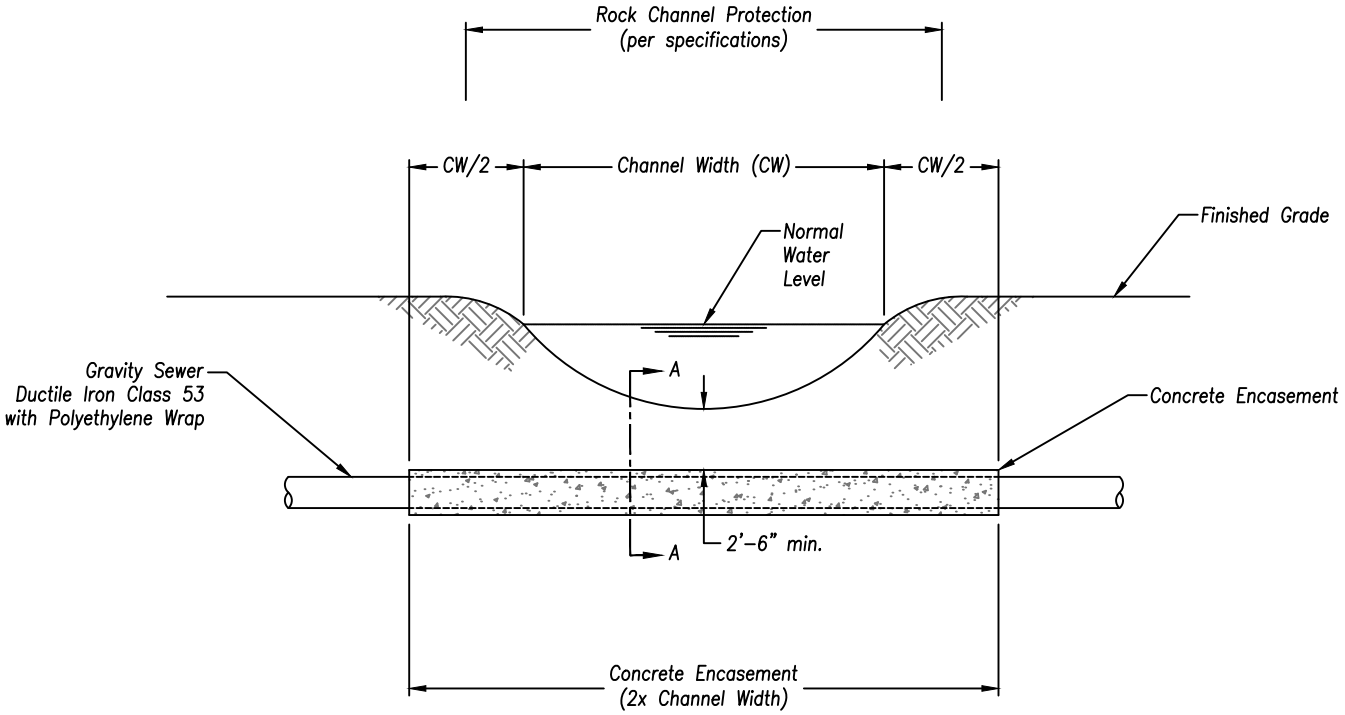
Notes:
1. Directional clean-outs may still be allowed in select circumstances with the approval of the City.
2. Final cleanout cap elevation adjust to finished grade and restoration completed within 90 days of installation.

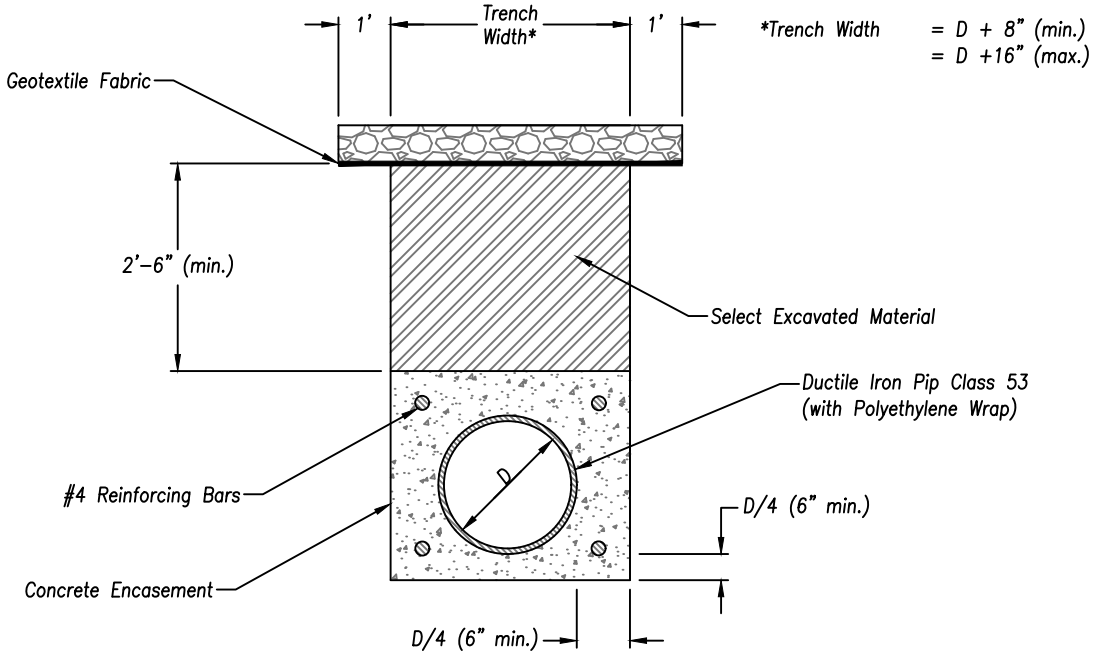
FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Gravity Sewer Creek Crossing

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-028.DWG





SECTION A-A

Notes:
1. Manholes shall not be installed within the limits of the concrete encasement or the stream banks.
2. Minimum depth of cover for concrete encasement will be reviewed on a case by case basis. Greater depth of cover may be required for higher velocity streams. Final determination on debth of cover required is to be made by the Director of Public Utilities.

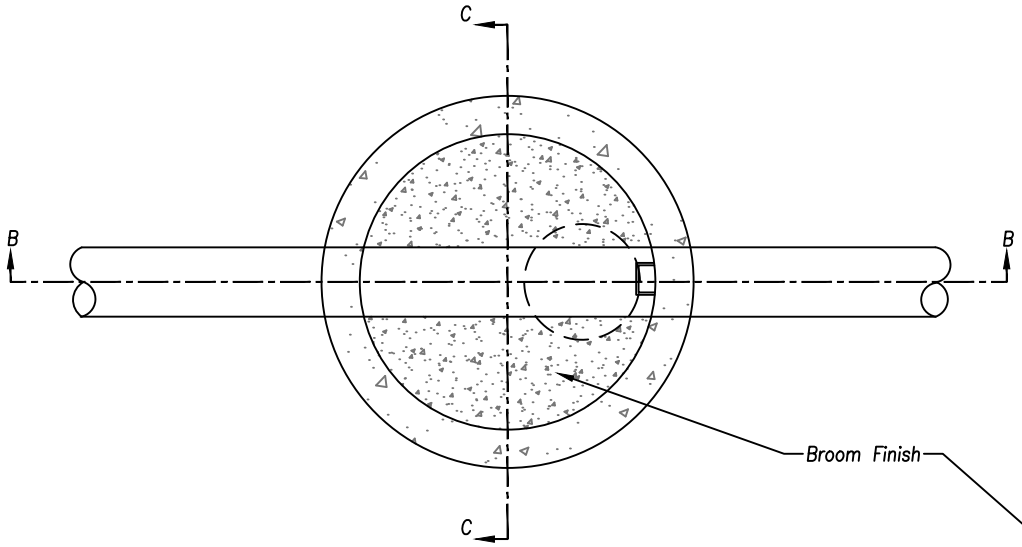
FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

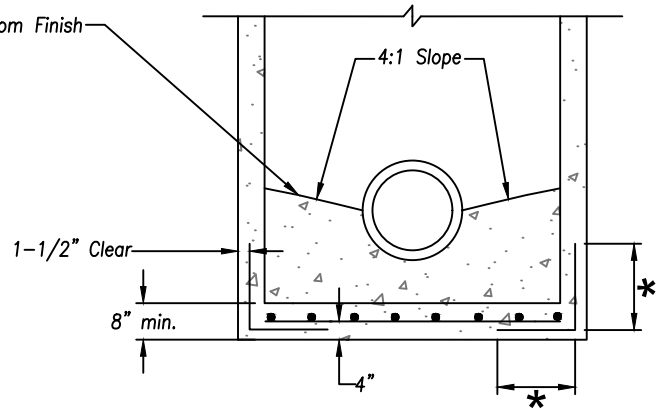
Standard Manhole (Page 1/2)

DATE: 05/15/2020 | SCALE: NONE | FILE: 2020-029.DWG

Steel Reinforcement Cross-sectional Area, A_s	
MH Depth (feet)	A_s (in^2/ft)
0' – 10'	0.17
11' – 20'	0.22
21' – 30'	0.27
31' – 40'	0.32

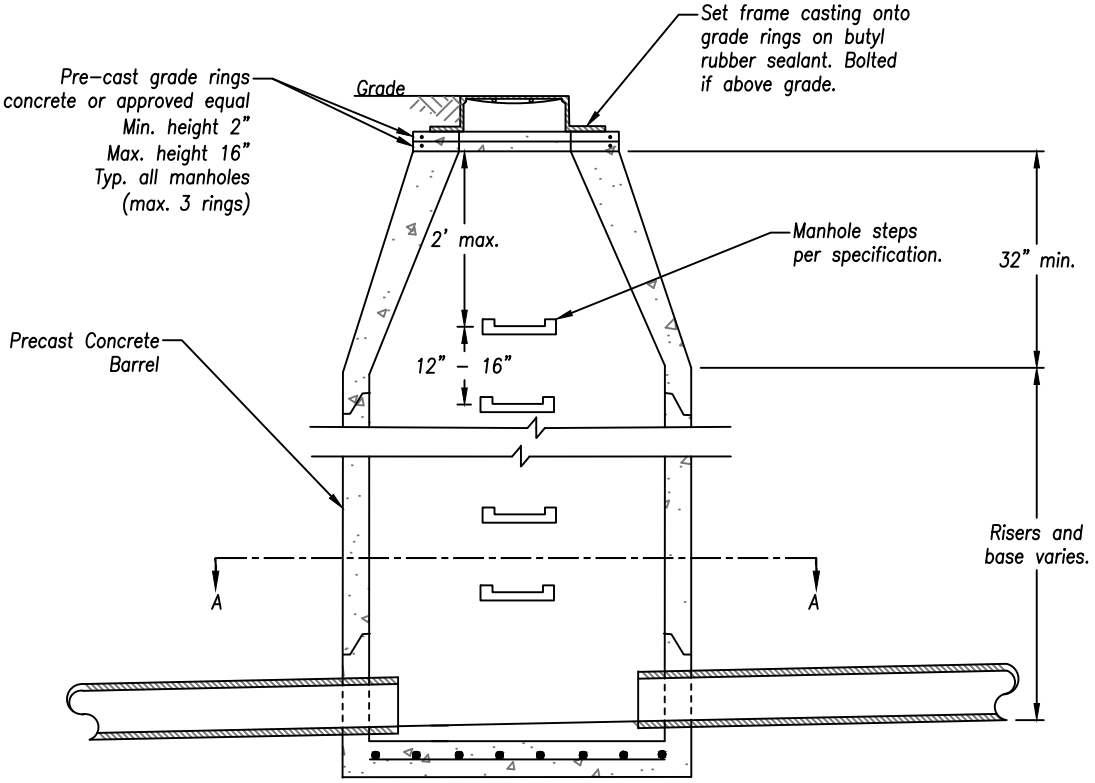


SECTION A – A



SECTION C – C

*30 x Bar Dia. (12" min.)



SECTION B – B

FAIRFIELD OHIO

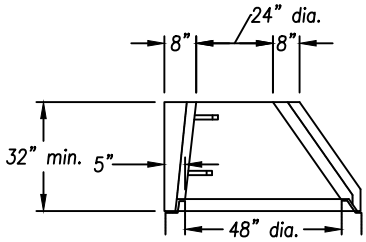
STANDARD CONSTRUCTION DRAWINGS

Standard Manhole (Page 2/2)

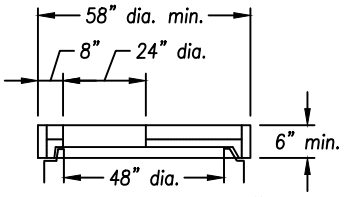
DATE: 05/15/2020 | SCALE: NONE | FILE: 2020-030.DWG

Min. Base Slab Thickness, BT	
Depth (feet)	BT (inches)
0' – 15'	8"
15.1' – 20'	10"
20.1' – 25'	12"
25.1' – 30'	14"

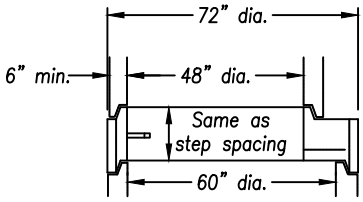
Wall Thickness, T	
MH Dia. (feet)	T (inches)
4'	5"
5'	6"
6'	7"



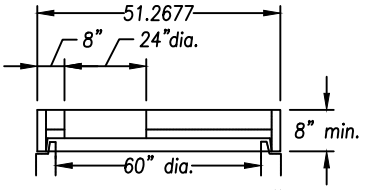
Eccentric Cone Top



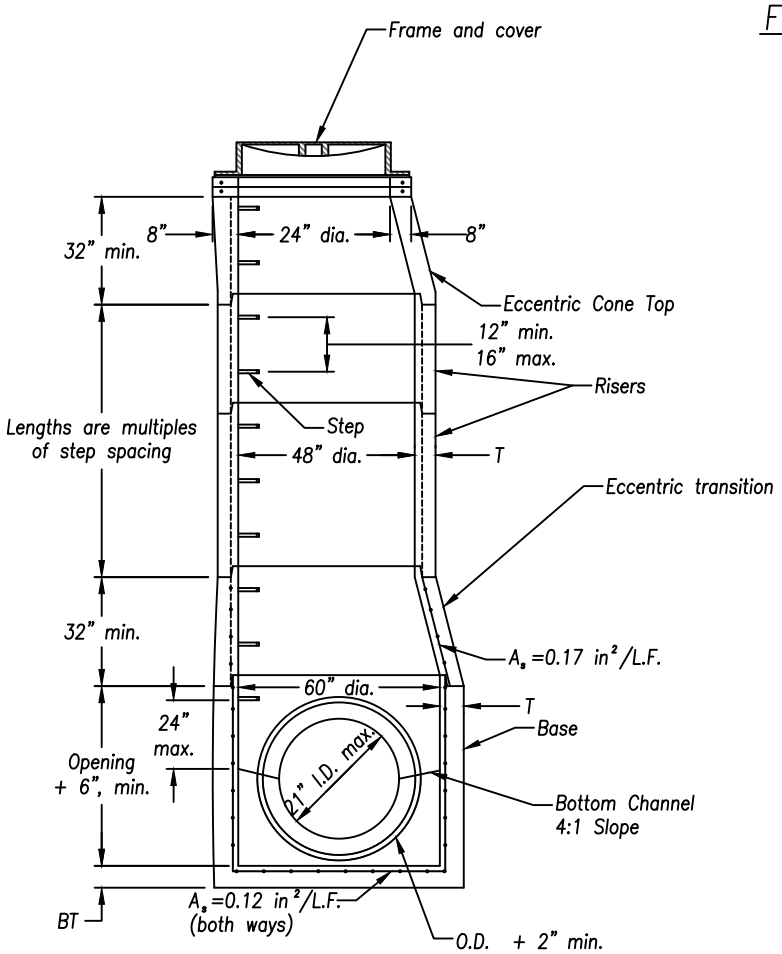
Flat Slab Top, 58" min.



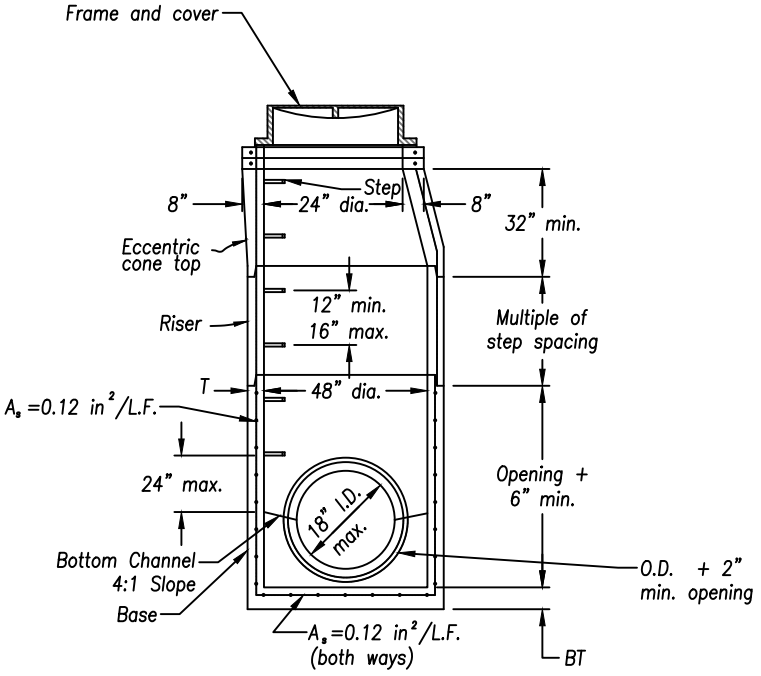
Flat Slab Transition



Flat Slab Top, 72" min.



60" Precast Base, 21" and Smaller Pipe



48" Precast Base, 18" and Smaller Pipe

Notes:

1. Manholes shall be pre-cast concrete. Pre-cast manhole sections and joints between sections to conform to current applicable ASTM standards.
2. Pre-cast bases are required. Cast in place bases are allowed only on existing sewer mains when approved by the City's Public Utilities Director.
3. Joint seal between pre-cast sections on sanitary sewers will be resilient and flexible gasket joints per ODOT's most current specification.
4. Precast manhole base for pipe larger than 21" requires a submittal drawing and approval by the Public Utilities Director.

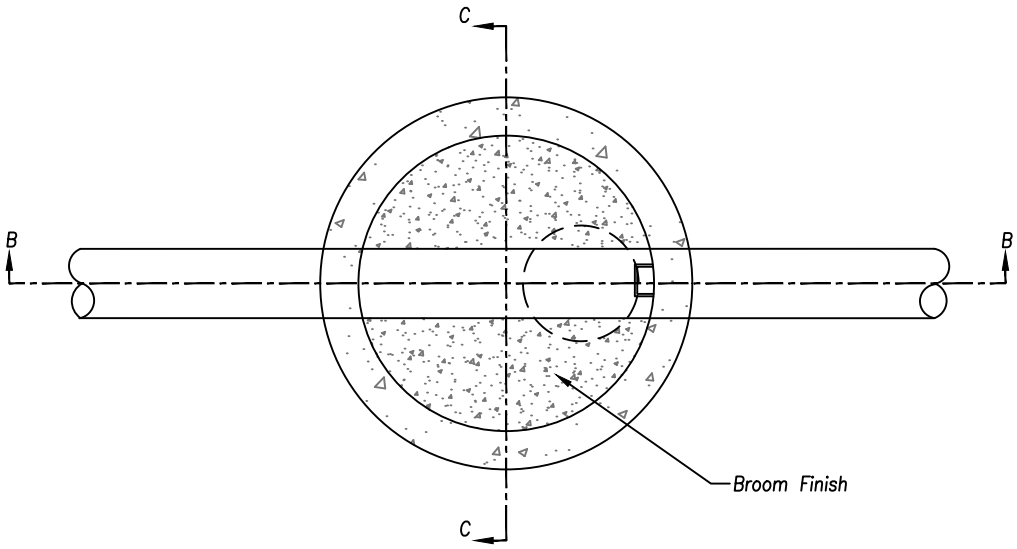
FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

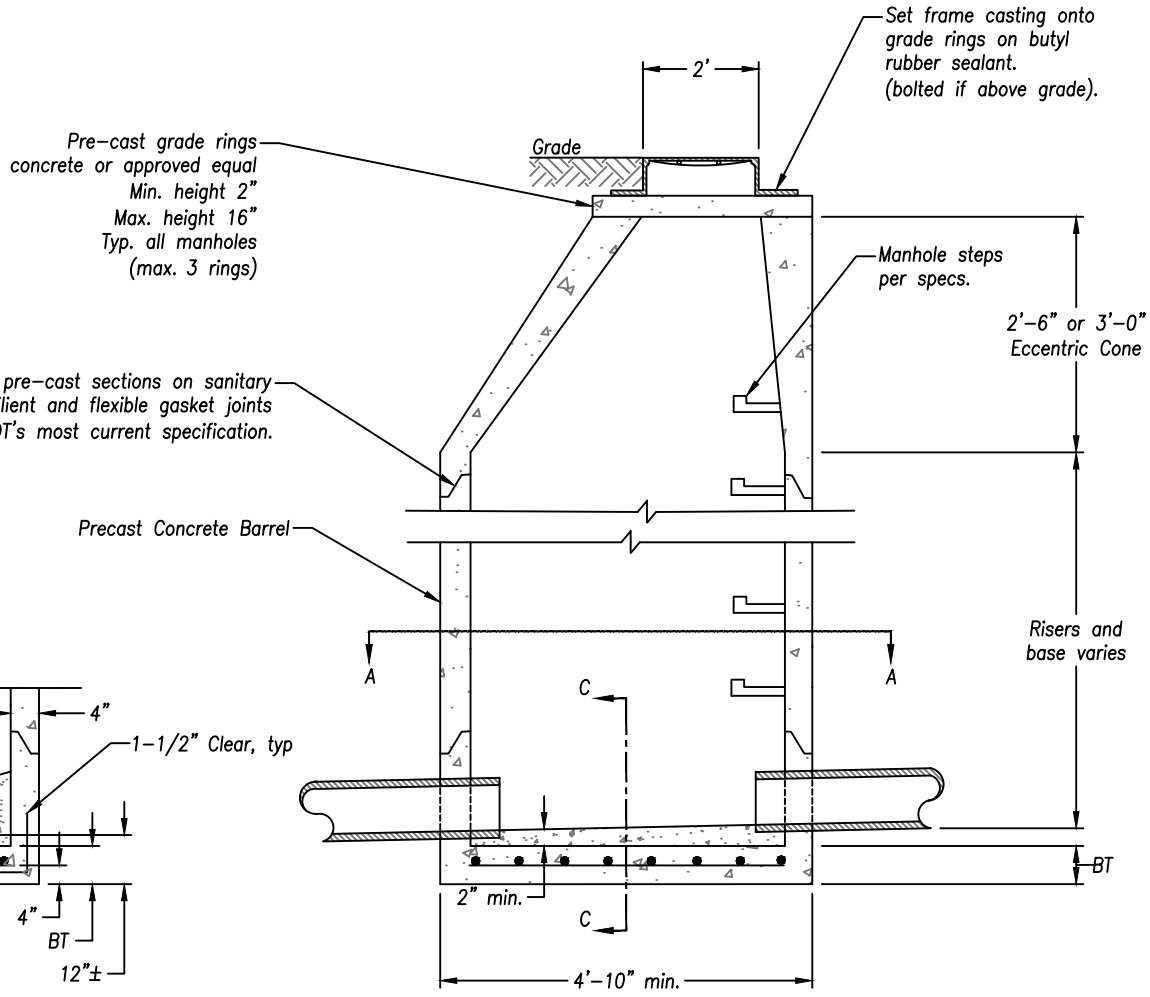
Standard Control Manhole

DATE: 05/15/2020 | SCALE: NONE | FILE: 2020-031.DWG

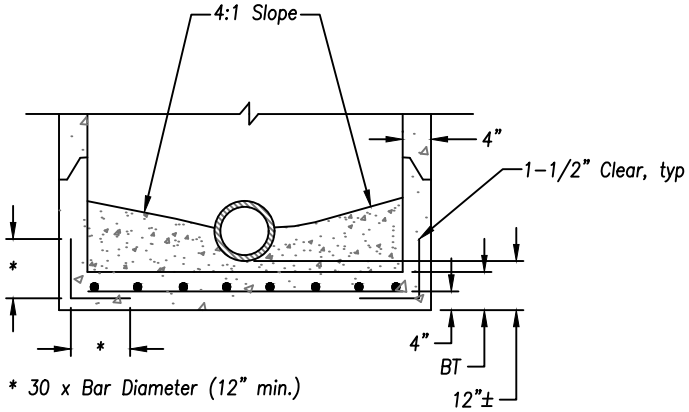
Min. Base Slab Thickness, BT	
Depth (feet)	BT (inches)
0' – 15'	8"
15.1' – 20'	10"
20.1' – 25'	12"
25.1' – 30'	14"



SECTION A – A



SECTION B – B



SECTION C – C

Note:

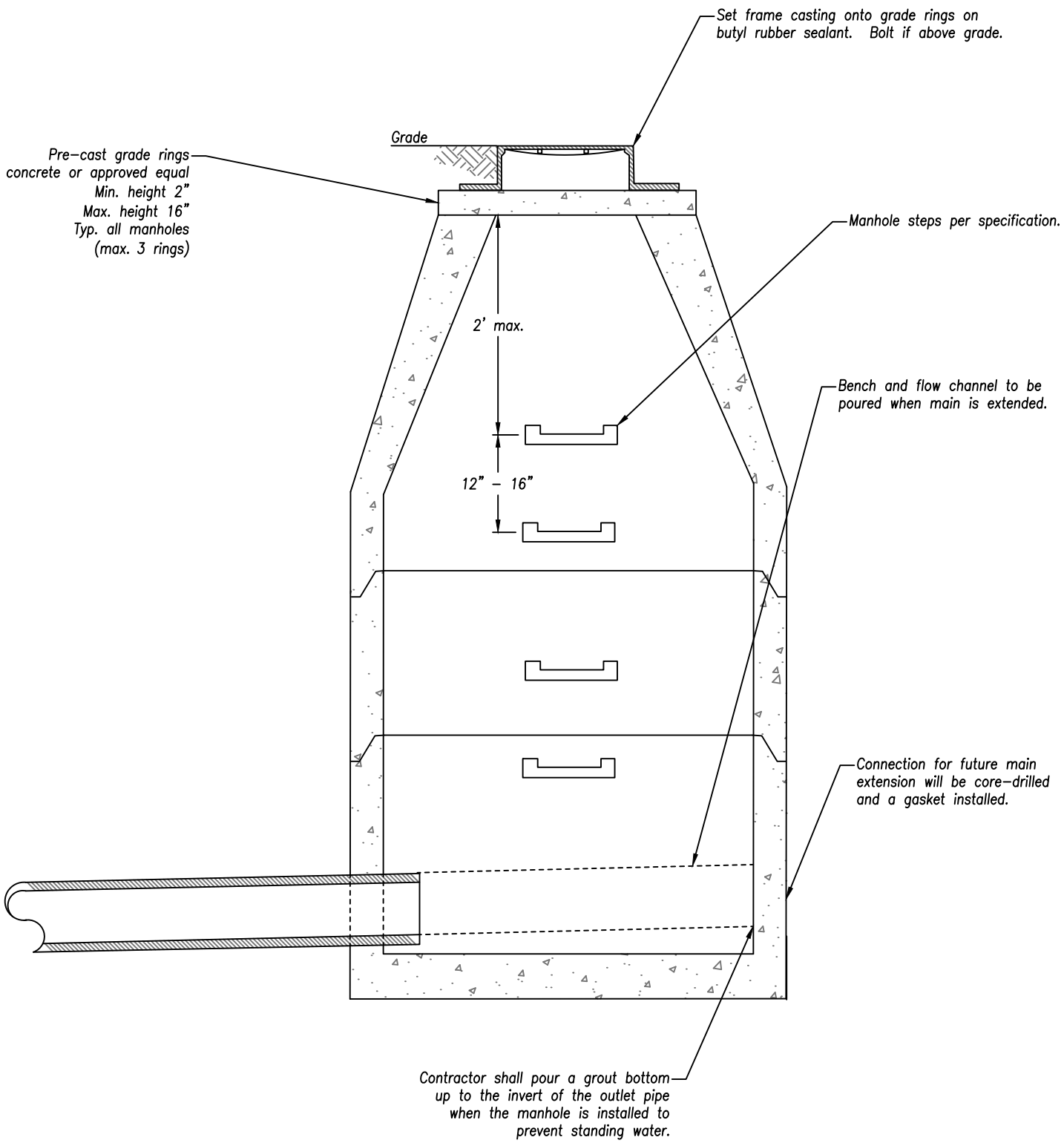
1. Control Manhole placement shall be designed per section 506.06 and approved by the Public Utilities Director and/or their designee.

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Dead End Manhole

DATE: 05/15/2020	SCALE: NONE	FILE: 2020-032.DWG

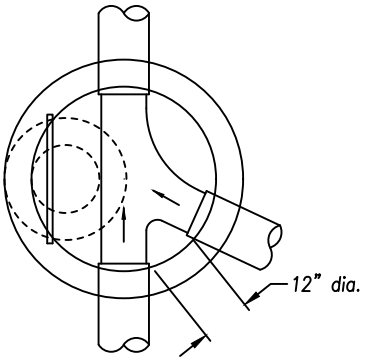


FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

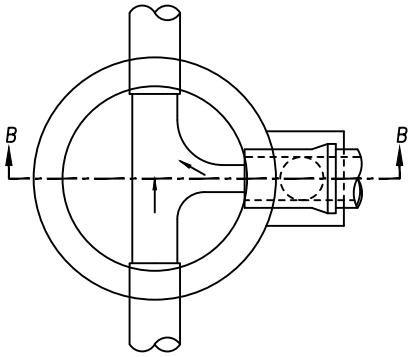
Drop Manhole

DATE: 05/15/2020 | SCALE: NONE | FILE: 2020-033.DWG

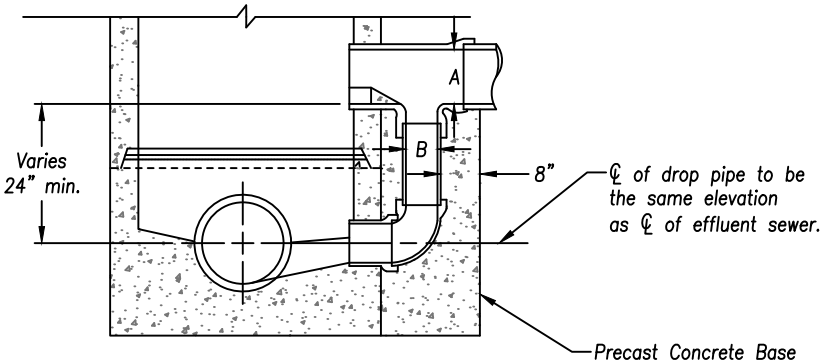


Plan–Standard Type A

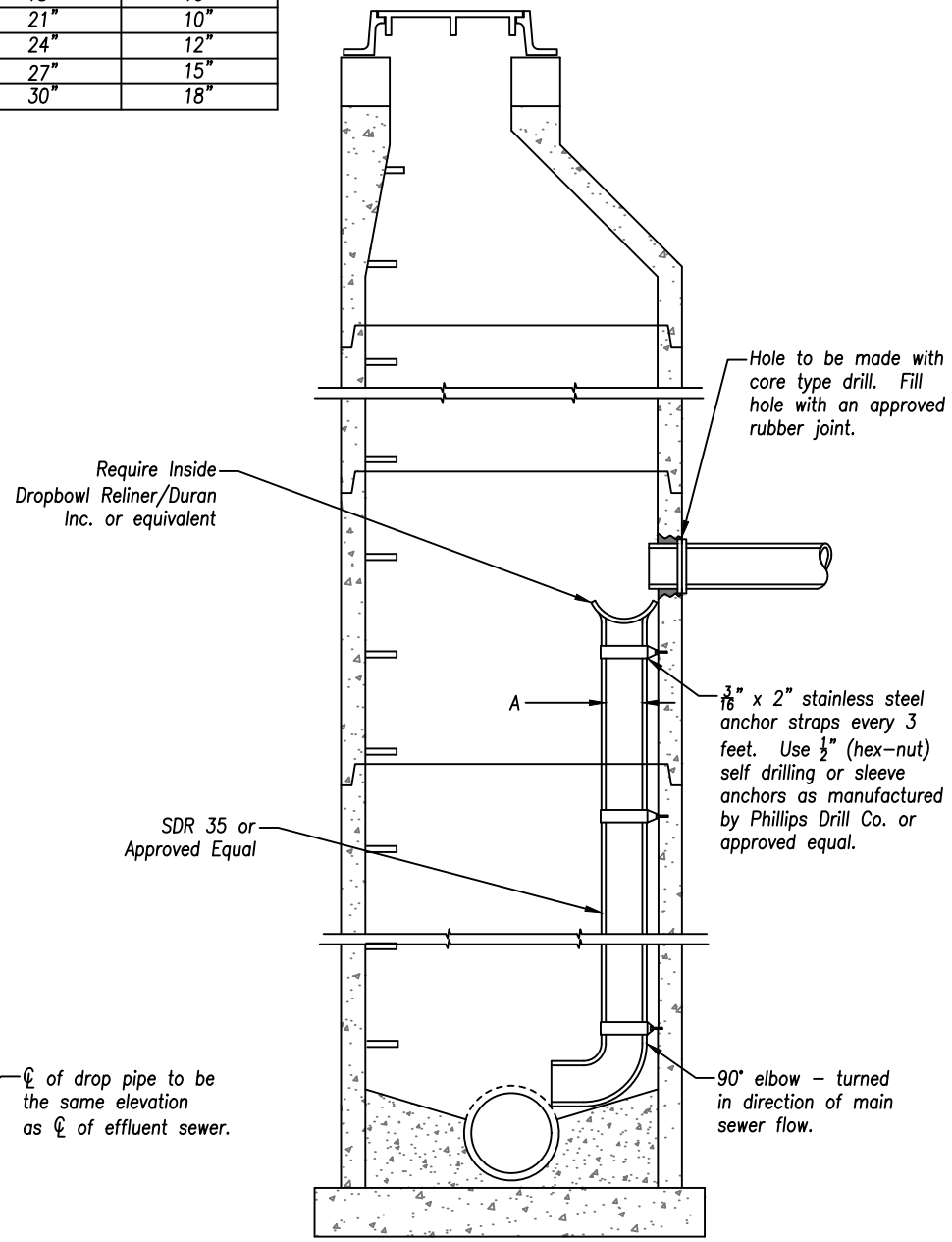
Table of Dimensions	
A (inches)	B (inches)
6"	6"
8"	6"
10"	6"
12"	8"
15"	8"
18"	10"
21"	10"
24"	12"
27"	15"
30"	18"



Plan–Standard Type B



Sewer Drop Outside Manhole



Sewer Drop Inside Manhole

Notes:

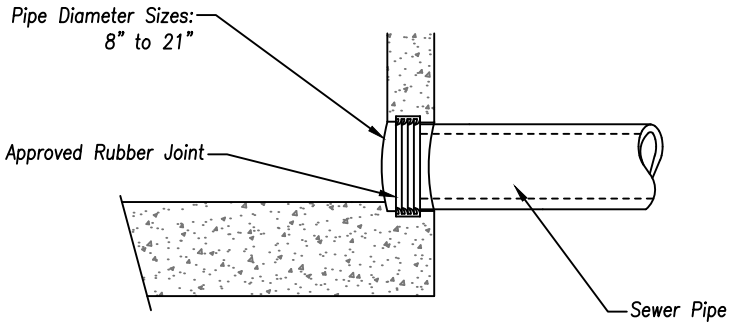
1. Inside drop assembly must be approved in writing by the City's Public Utilities Director.
2. Pre–cast concrete risers sealed in place with butyl rubber sealant.

FAIRFIELD OHIO

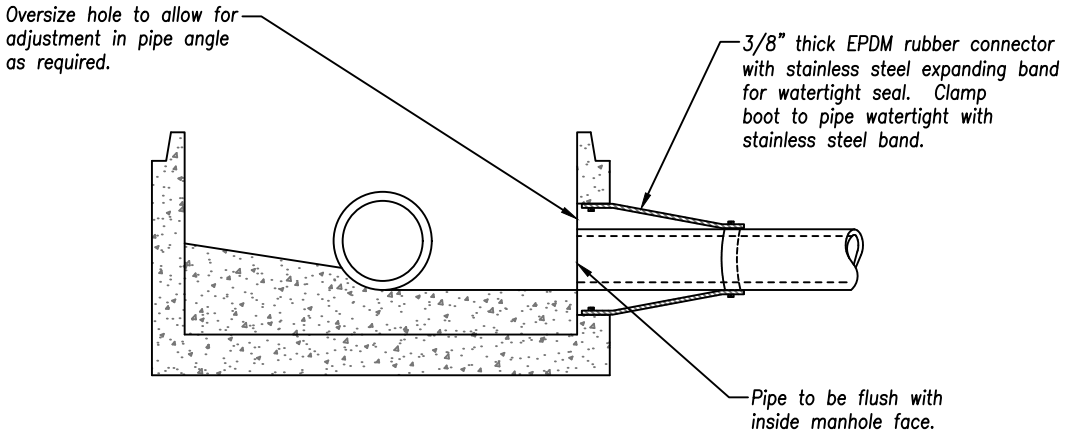
STANDARD CONSTRUCTION DRAWINGS

Pipe Connections

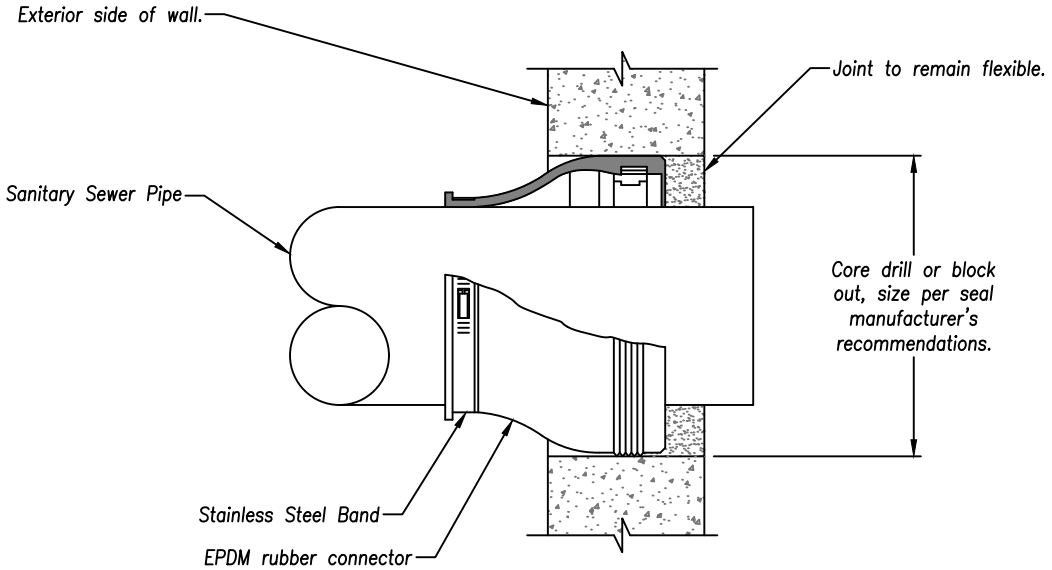
DATE: 05/15/2020	SCALE: NONE	FILE: 2020-034.DWG



Alternate #1 – New Construction



Alternate #2 – New Construction



Alternate #3 – Existing Manhole

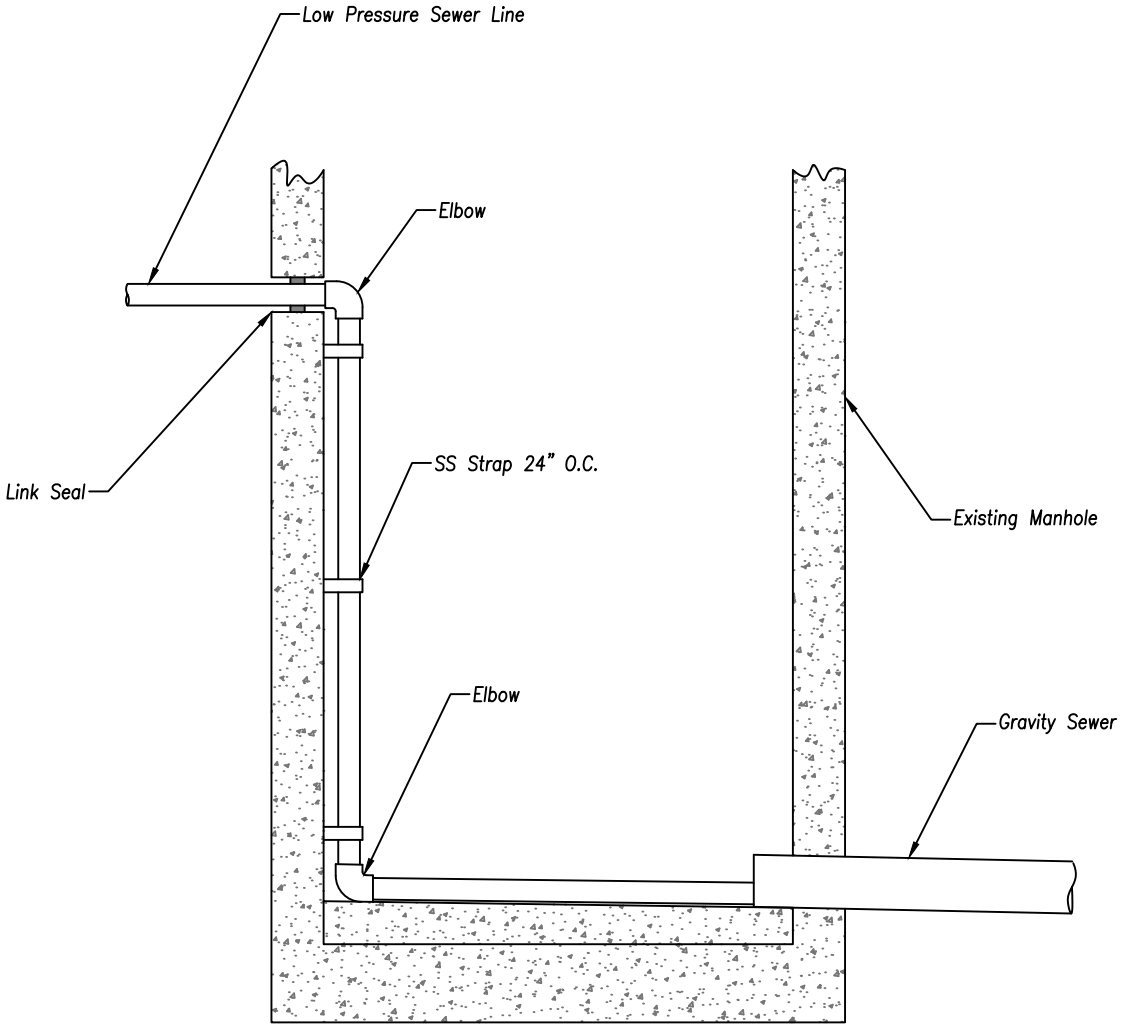
Notes:
1. Wall penetrations shall be located within a riser section and not a wall joint.

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Force Main Drop Connection in Existing Manholes

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-035.DWG

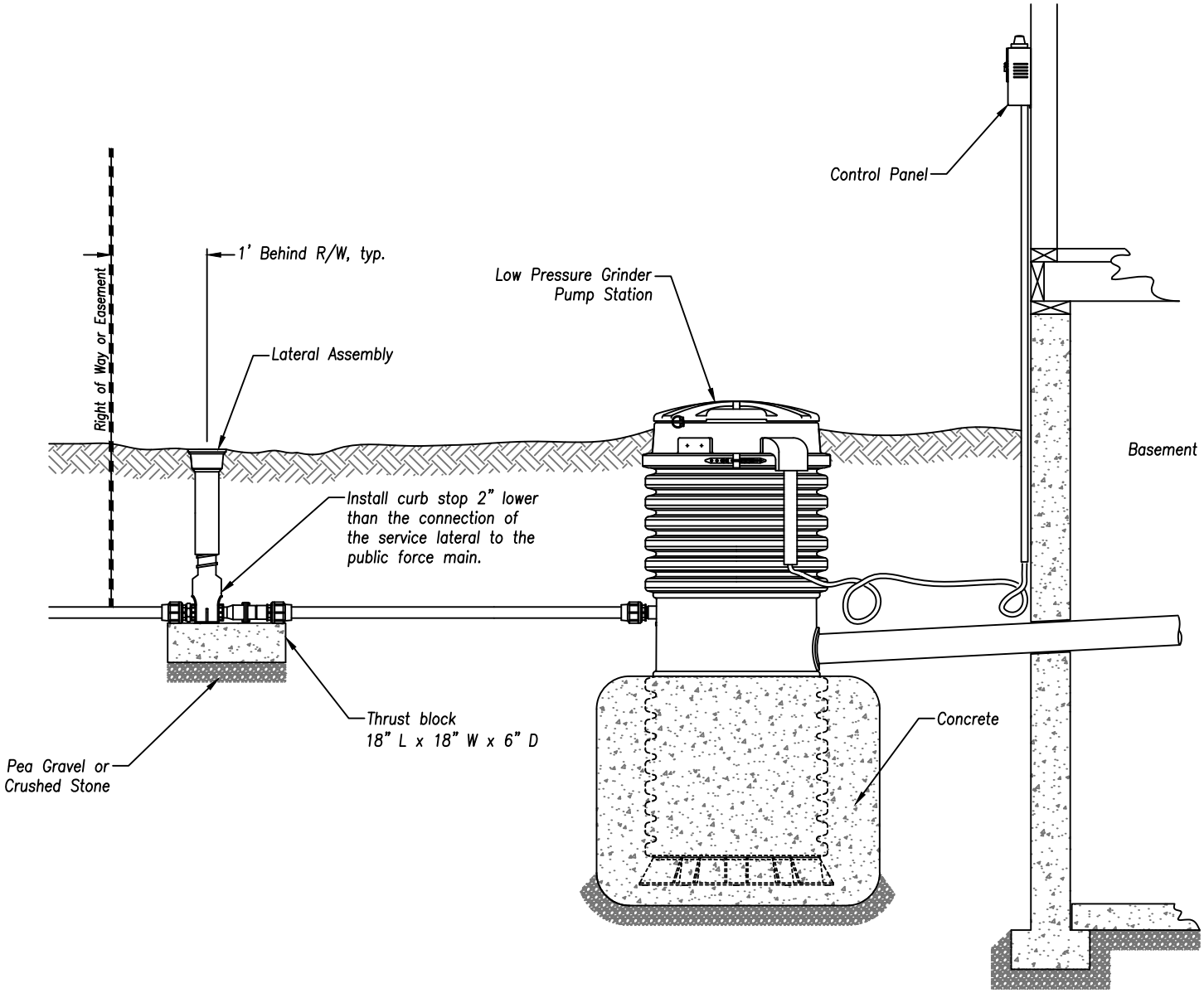


FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Force Main Lateral Installation

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-036.DWG

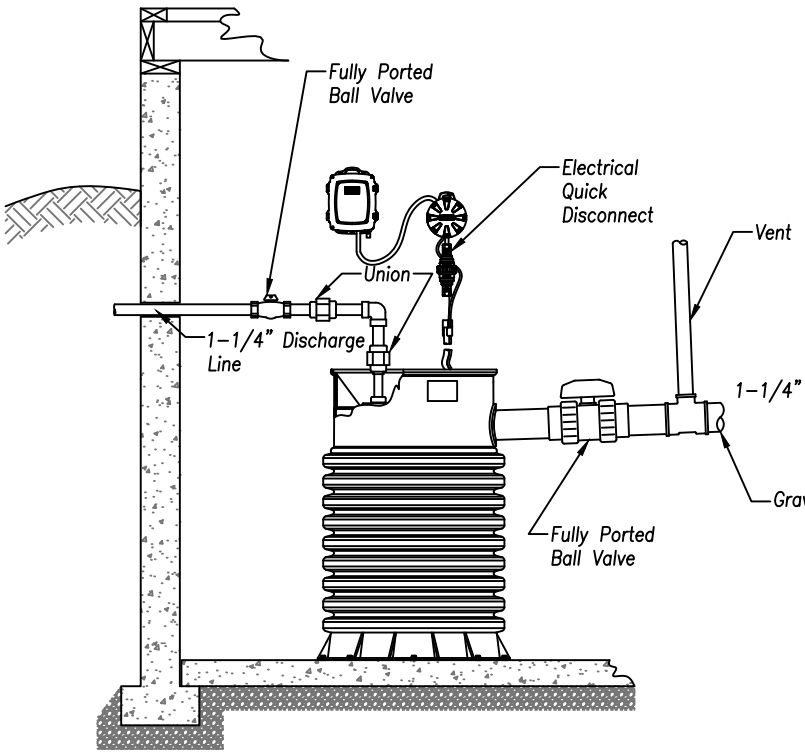


FAIRFIELD OHIO

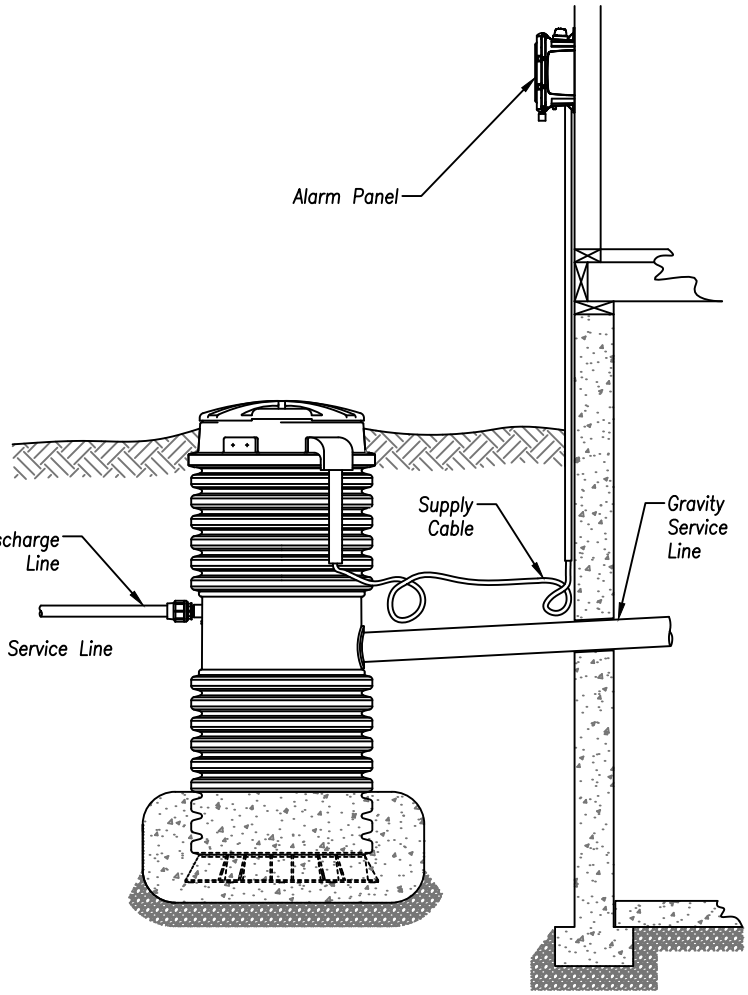
STANDARD CONSTRUCTION DRAWINGS

Force Main Grinder Pump Station Installation

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-037.DWG



Interior Installation



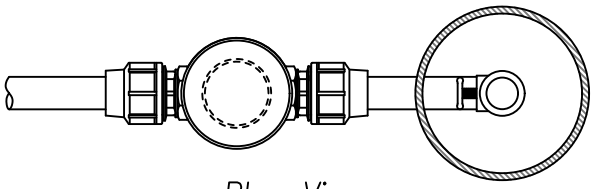
Exterior Installation

FAIRFIELD OHIO

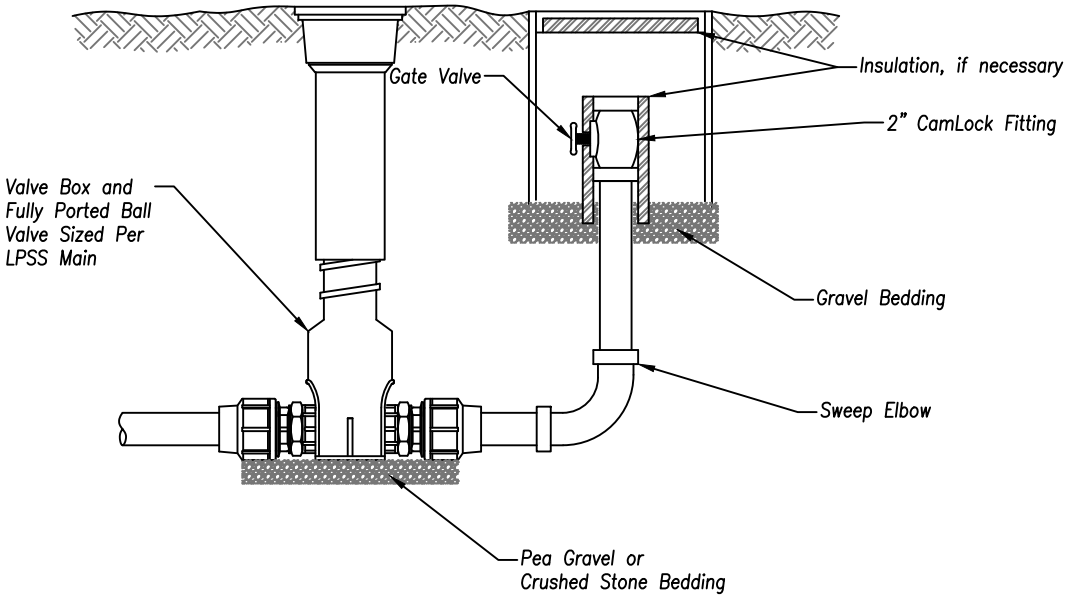
STANDARD CONSTRUCTION DRAWINGS

Force Main Terminal Flushing Connection

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-038.DWG



Plan View

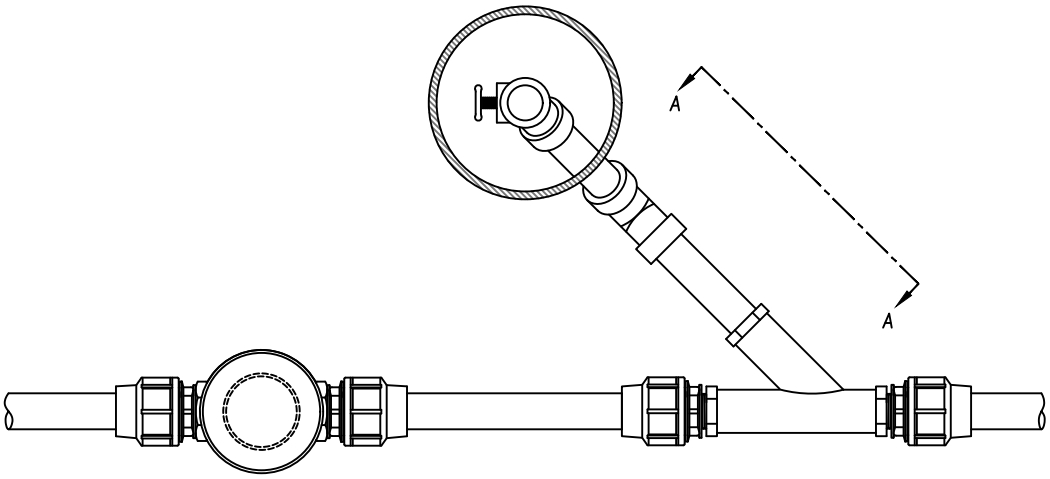


FAIRFIELD OHIO

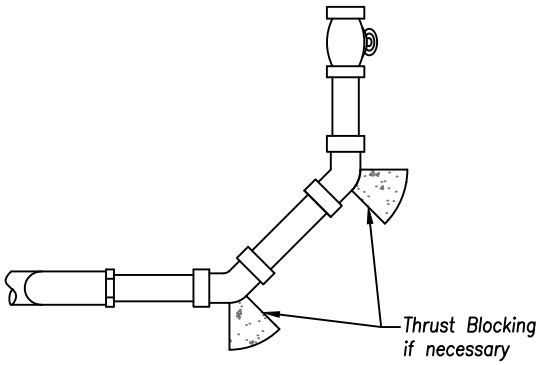
STANDARD CONSTRUCTION DRAWINGS

Force Main Flushing Connection on LPSS Main

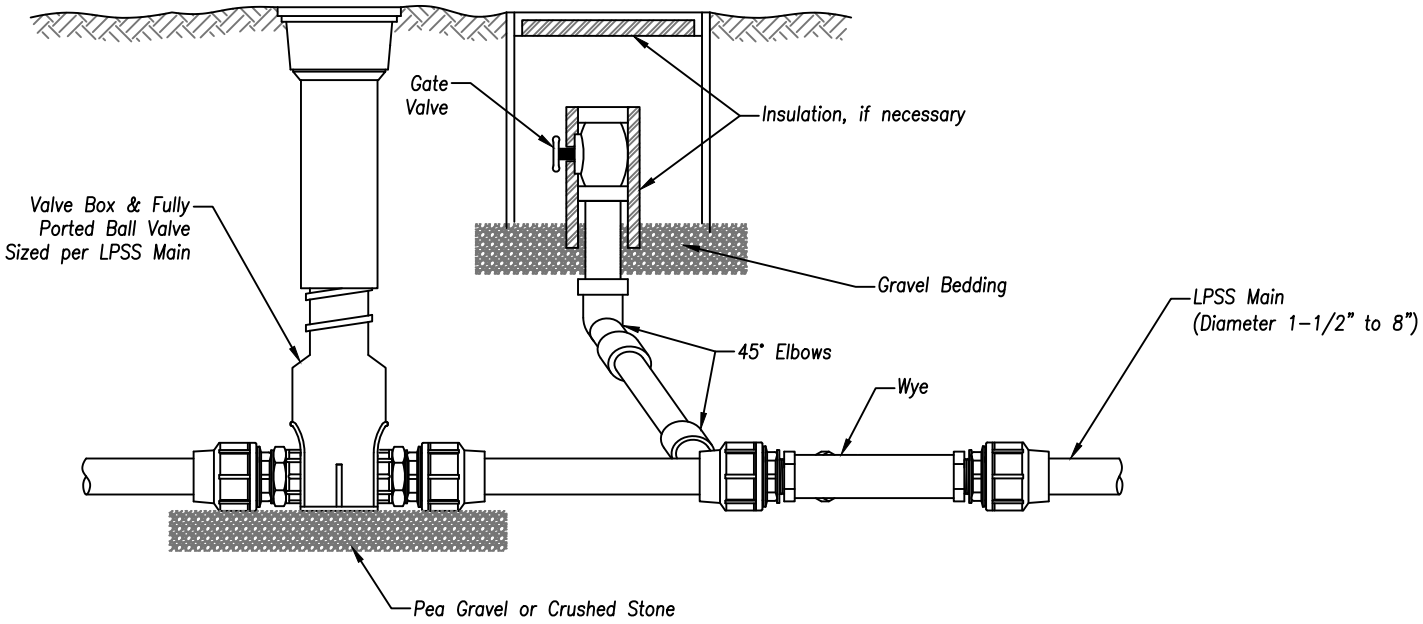
DATE: 05/08/2020	SCALE: NONE	FILE: 2020-039.DWG



Plan View



SECTION A – A

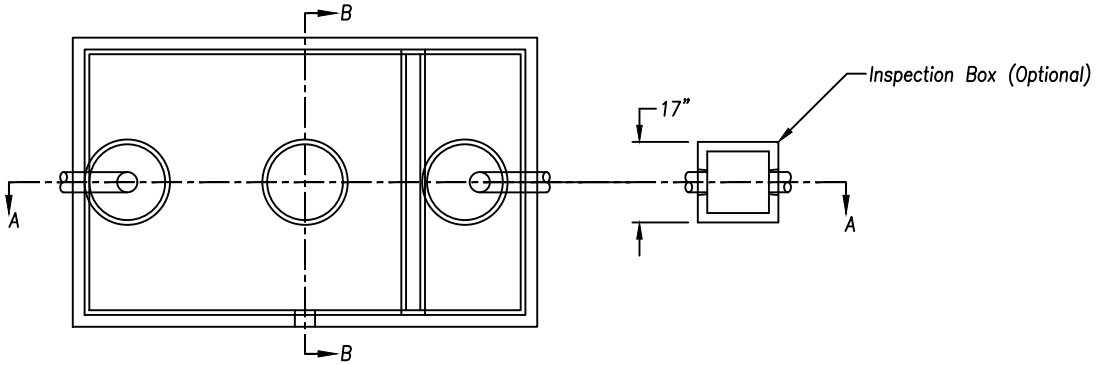


FAIRFIELD OHIO

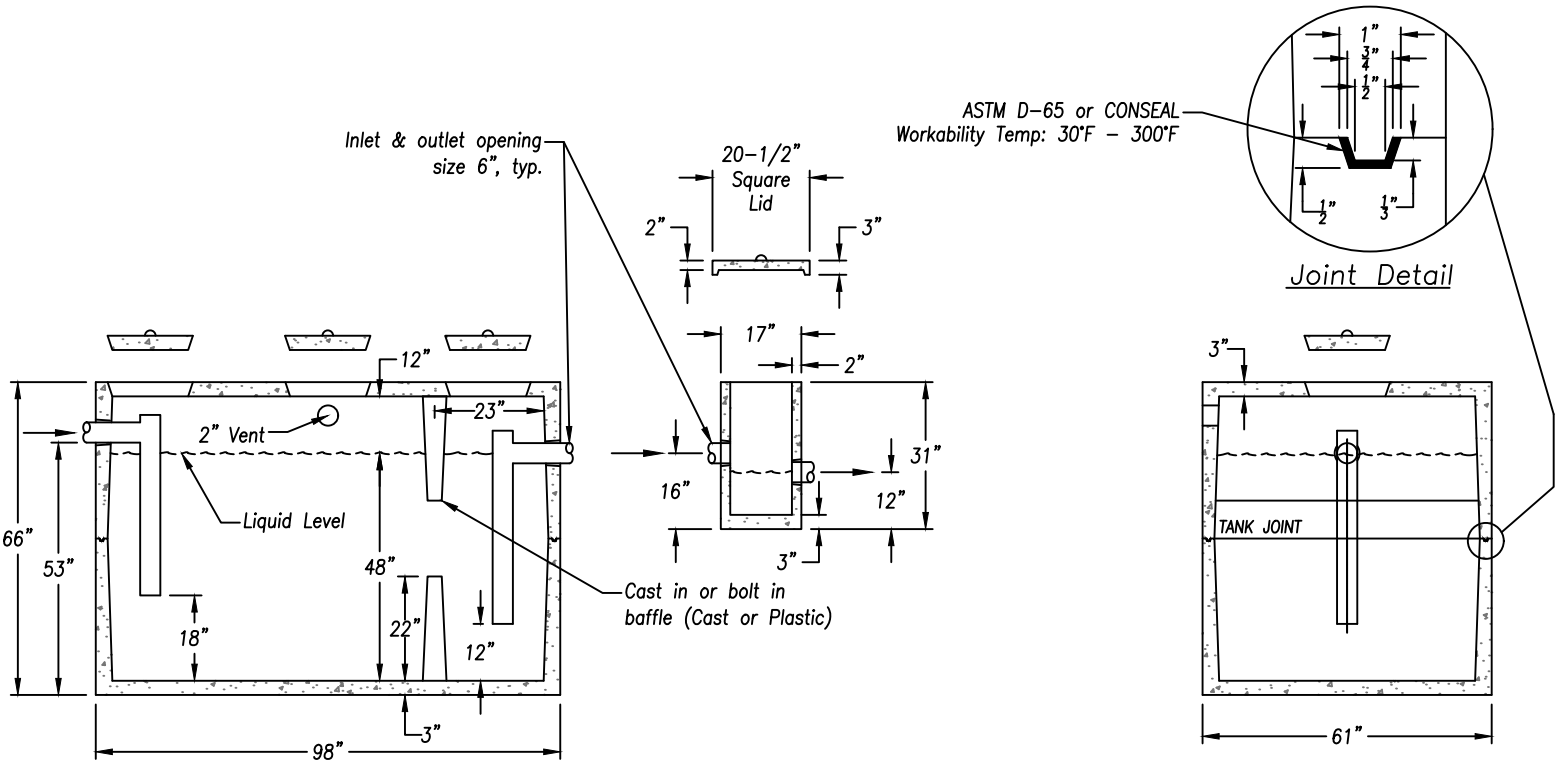
STANDARD CONSTRUCTION DRAWINGS

Grease Interceptor - Oil/Water Separator (Baffled)

DATE: 05/04/2020	SCALE: NONE	FILE: 2020-040.DWG



Plan View



SECTION A-A

Joint Detail

SECTION B-B

Notes:

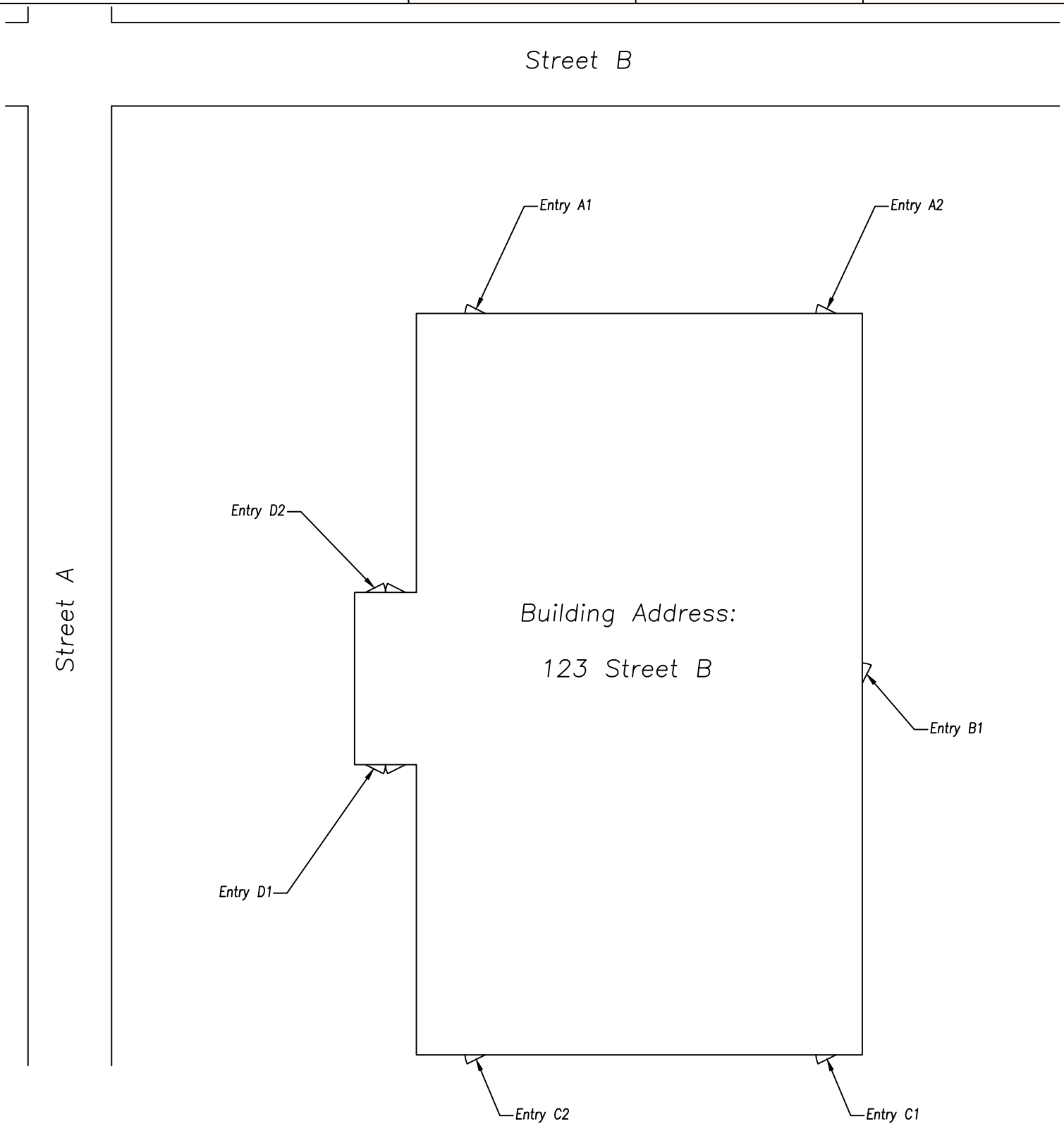
1. Access manholes with a minimum diameter of 24" shall be provided over each grease interceptor chamber. The access manhole shall extend at least to finished grade and be designed and maintained to prevent water inflow or infiltration. The manholes shall be readily removable covers to facilitate inspection, grease removal, and wastewater sampling activities.
2. Provide a minimum of two manholes.
3. Grease interceptor shall have a capacity of at least 1000 gallons.
4. Piping by others. 4" PVC Schedule 40 or as directed by the Public Utilities Director.

FAIRFIELD OHIO

STANDARD CONSTRUCTION DRAWINGS

Exterior Door Identification

DATE: 05/13/2020	SCALE: NONE	FILE: 2020-041.DWG



Notes:

1. Exterior door identification may be requested or required by Fairfield Police or Fire Departments.
2. All exterior doors (personnel, overhead, etc.) shall receive a unique alpha-numeric designation. The alphabetic character signifies the side of the building while the numeric character signifies the door number.
3. The "A" side of the building shall be the side that faces the street matching the building address. "B", "C", and "D" sides of the building shall be named sequentially in a clockwise manner. Door numbering on any given side shall increase in a clockwise direction.
4. Characters labeling each door are recommended to be 6" or greater.