

# **STANDARD DETAILS BOOKLET**

**Revised May 2025** 

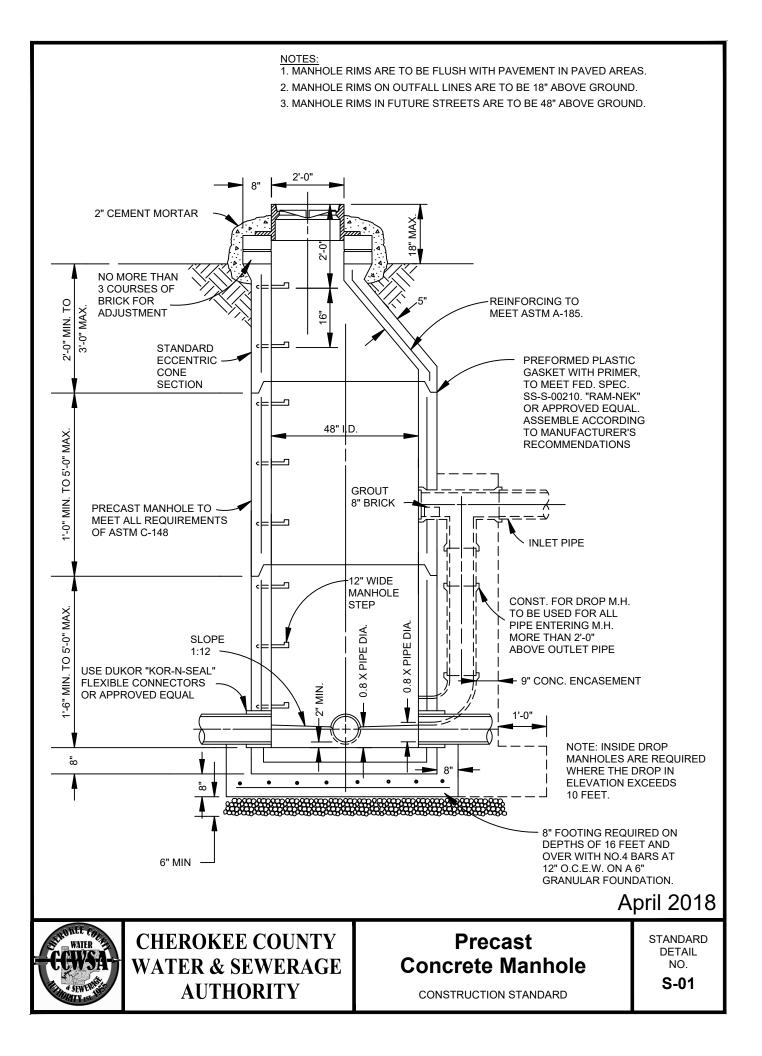
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Precast Concrete Manhole	S-01
Standard Vented Manhole	S-02
Inside Drop Manhole	S-03
Shallow Manhole	S-04
Standard Manhole Plans	S-05
Manhole Step	S-06
Standard Manhole Frame & Cover	S-07
Water-Tight Manhole Frame & Cover	S-08
Manhole Frame - Grade Adjustment	S-09
Sewer Service Location - Plans	S-10
Sewer Service Location - Profiles	S-11
Sewer Main/Manhole Connection	S-12
Sewer Service Double Lateral	S-13
Sewer Service Location by Contractor	S-14
Cleanout Detail	S-15
Concrete Encasement	S-16
Typical Pipe Adapter	S-17
Sewer Pipe Anchor (Slopes 20% or More)	S-18
Pipe Class "A" Bedding	S-19
Pipe Class "B" Bedding	S-20
Pipe Class "C" Bedding	S-21
Minimum PVC Pipe Bedding	S-22
Sewer Air & Vacuum Valve Assembly	S-23
Force Main Connection to Manhole	S-24
Sewer Casing Spacer	S-25
Typical Combination Sand/Oil Trap	S-26
Typical Grease Trap	S-27
Lift Station Site Layout Plan Lift Station	S-28
Valve Pit	S-29
SCADA RTU Panel	S-30
Lift Station Grounding	S-31
Inside Drop Bowl	S-32
General Notes for Sewer Main Construction	S-32

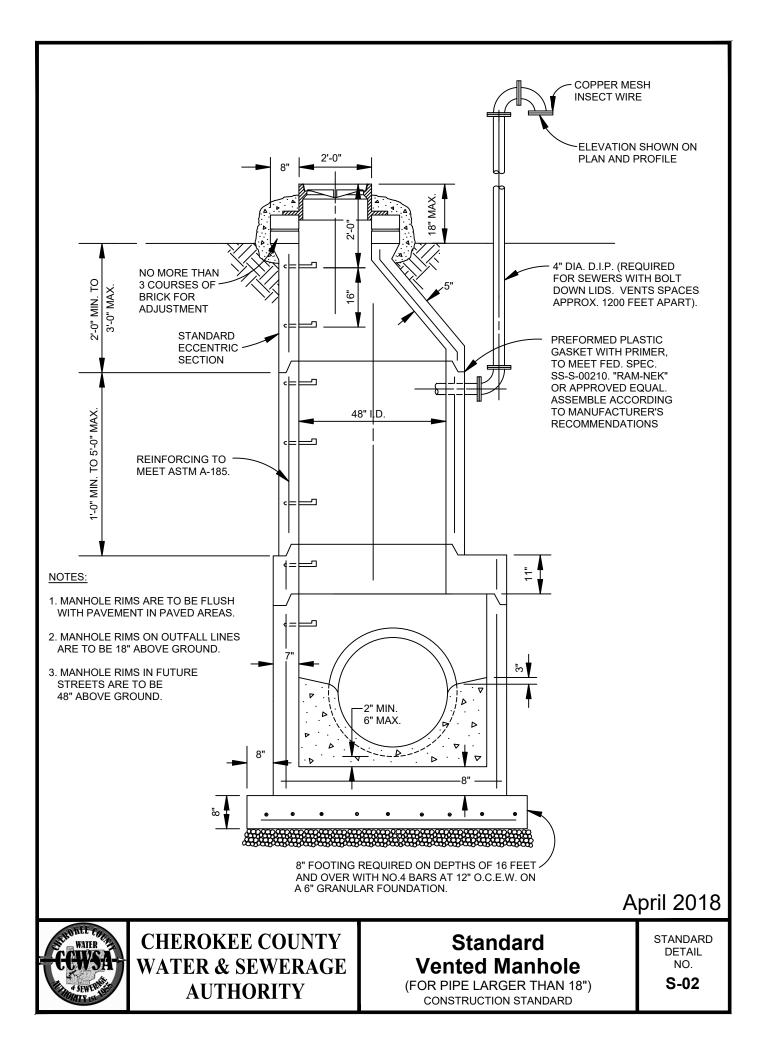
#### CCWSA STANDARD WATER DETAILS DETAIL NUMBER

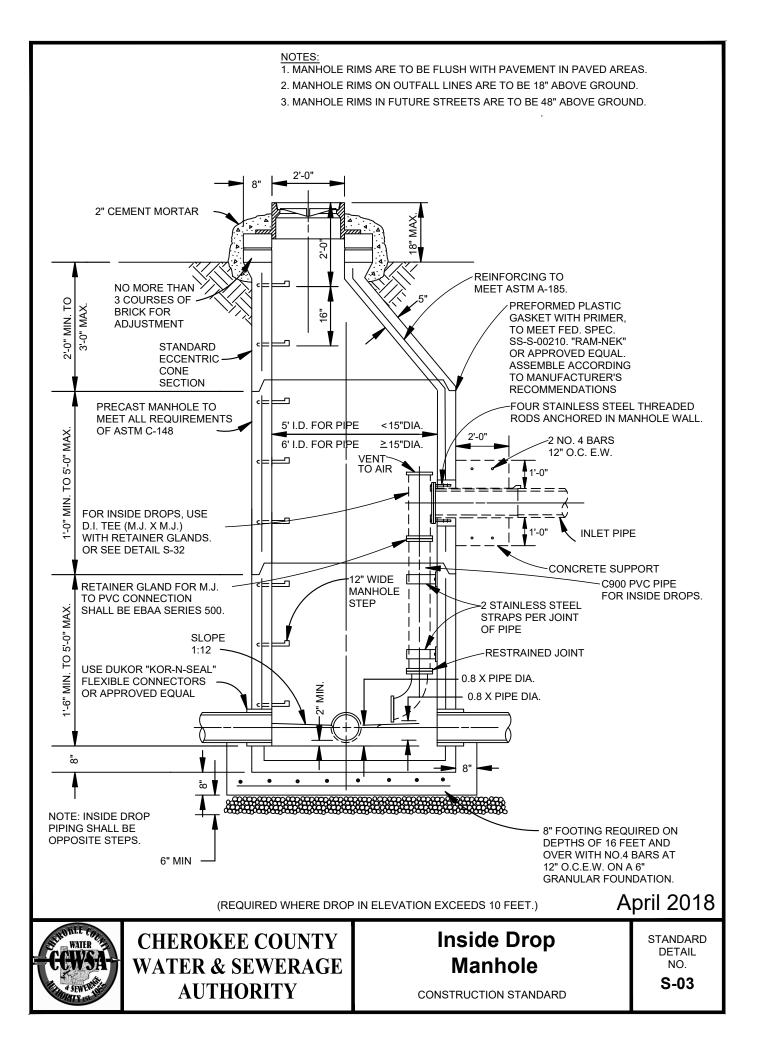
Typical Water Main at Cul-de-sac Typical Fire Hydrant Installation 3/4" Water Meter Location (For Subdivisions) Residential Water Meter Installation Meter Box for 5/8" or 1" Meter Standard Jumbo Cast Iron Meter Box House Service Installation Water A&V Release Valve Assembly Typical Road Crossing Concrete Blocking for Bends Concrete Blocking for Tees and Plugs Concrete Blocking - Vertical Bends - Upward Thrust Concrete Blocking - Vertical Bends - Downward Thrust Concrete Thrust Collar Typical Valve Installation Concrete Valve Marker Blow-Off Assembly Turn Lane Relocation Water Line Maintenance Sign Water Line Grout Backflow & Easement	W-01 W-02 W-03 W-04 W-05 W-06 W-07 W-08 W-09 W-10 W-10 W-10 W-10 W-11 W-12 W-13 W-14 W-15 W-16 W-17 W-18 W-19 W-20 W-21
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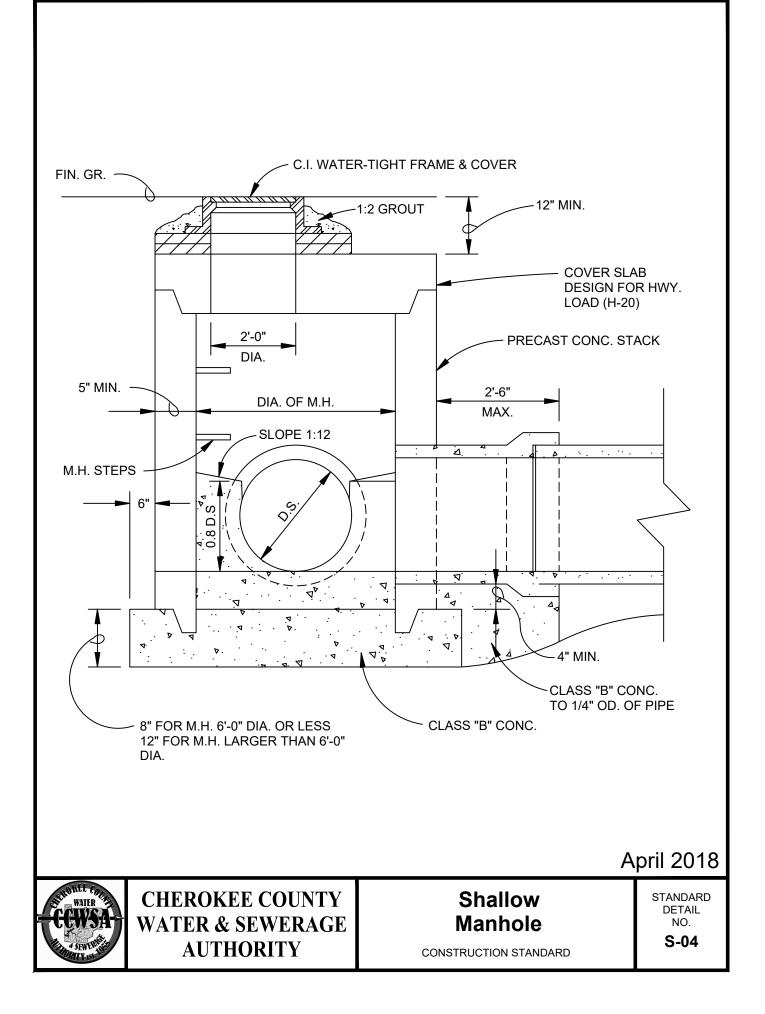
#### CCWSA MISCELLANEOUS DETAILS & DOCUMENTS DETAIL NUMBER

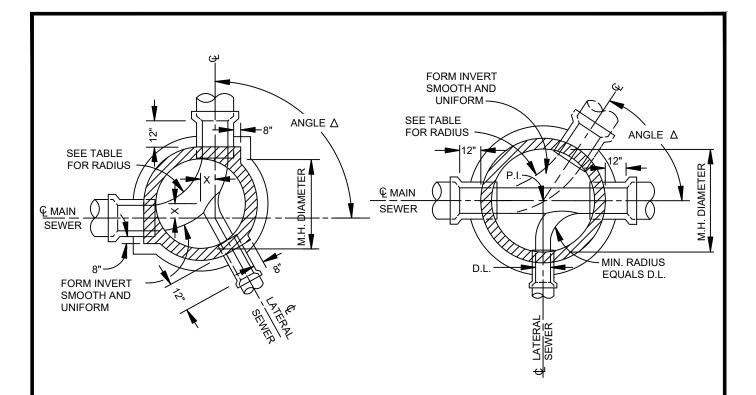
Utility Placement Detail	M-01
Utility Placement Detail with Curb	M-02
Utility Placement Detail without Curb	M-03
Sample Certificate of Liability Insurance	M-04
"Call Before You Dig"	M-05
Typical Street Cut Repair	M-06
Typical Driveway Cut Repair	M-07
Utility Easement	M-08
Meter/Vault Easememt	M-09
New Project Requirements & Maintenance Bond	M-10
Notification Final Plat Notes	M-11
Final Plat Signature Block	M-12
Point Examples	M-13











STANDARD MANHOLE SCHEDULE OF GOVERNING DIMENSIONS					
PIPE SIZE	ANGLE $\Delta$	MANHOLE DIAMETER	``R"	``X"	
8" TO 18"	0° TO 90°	4'-0"	2'-0"	0"	
21" & 24"	0° TO 60°	4'-0"	2'-0"	6"	
21" & 24"	60° TO 70°	5'-0"	2'-0"	6"	
21" & 24"	70° TO 80°	5'-0"	2'-0"	-7 1/2"	
21" & 24"	80° TO 90°	5'-0"	2'-0"	10 1/2"	
30" & 36"	0° TO 60°	5'-0"	3'-0"	8"	
30" & 36"	60° TO 70°	6'-0"	3'-0"	10"	
30" & 36"	70° TO 80°	6'-0"	3'-0"	13"	
30" & 36"	80° TO 90°	6'-0"	3'-0"	16"	
42"	0° TO 35°	6'-0"	3'-0"	3"	
42"	35° TO 50°	6'-0"	6'-0"	6"	
42"	50° TO 90°	7'-0"	6'-0"	0"	
48" & 54"	0° TO 35°	6'-0" & 7'-0"	6'-0"	0"	
48" & 54"	35° TO 90°	8'-0"	6'-0"	0"	

April 2018

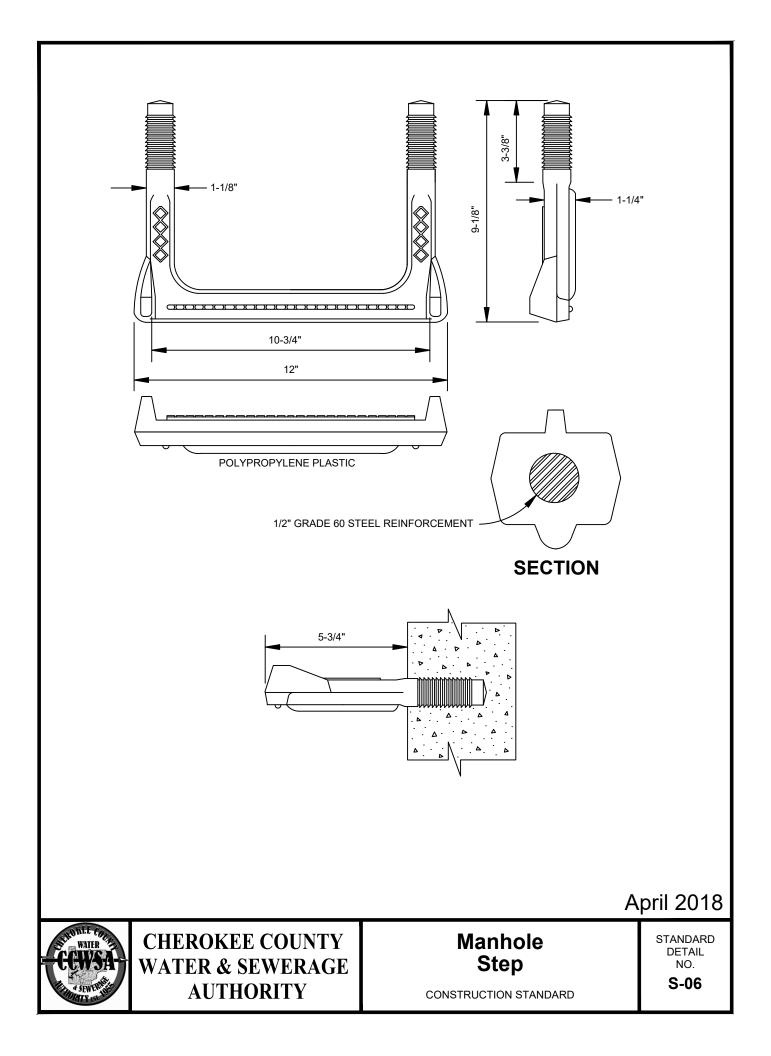


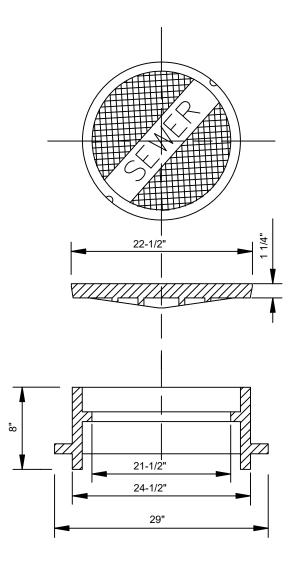
## CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

## Standard Manhole Plans

CONSTRUCTION STANDARD

STANDARD DETAIL NO. **S-05** 





NOTE: PICK HOLES SHALL NOT PENETRATE THE COVER.



CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

April 2018



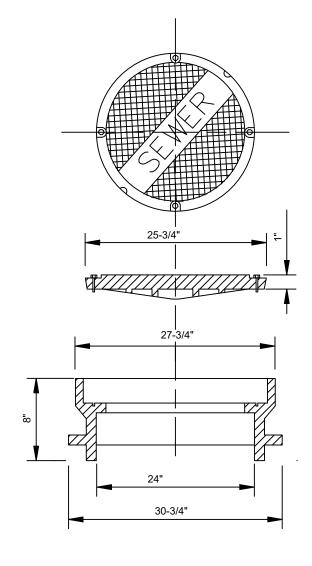
## CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

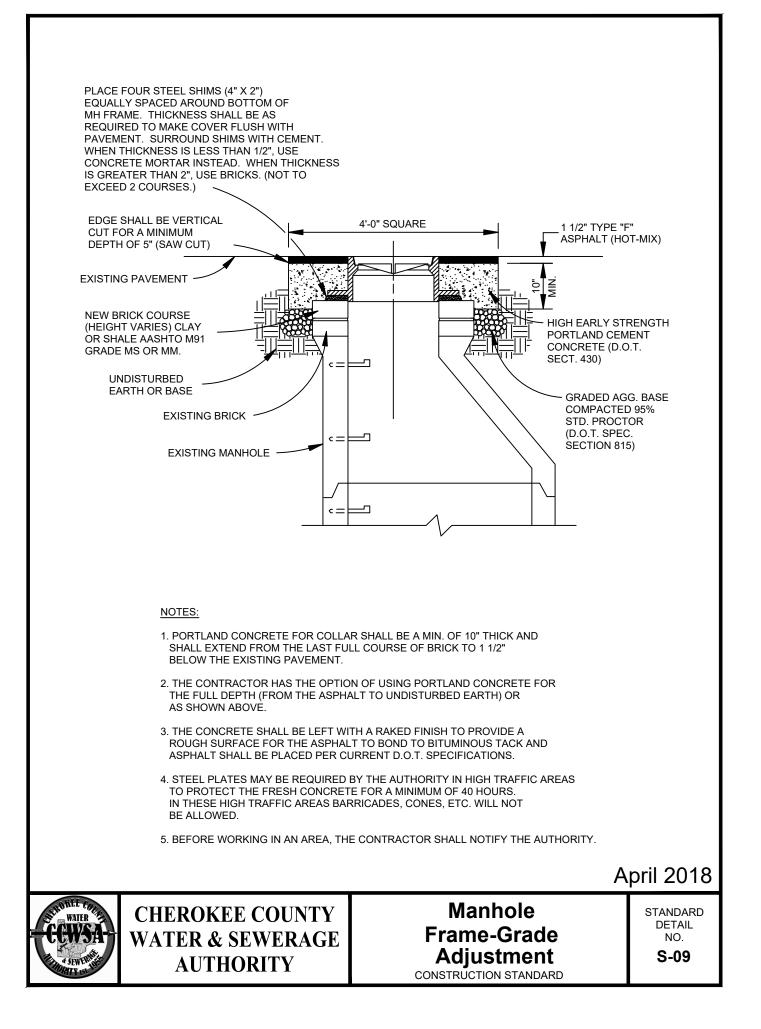
### Water-Tight Manhole Frame & Cover CONSTRUCTION STANDARD

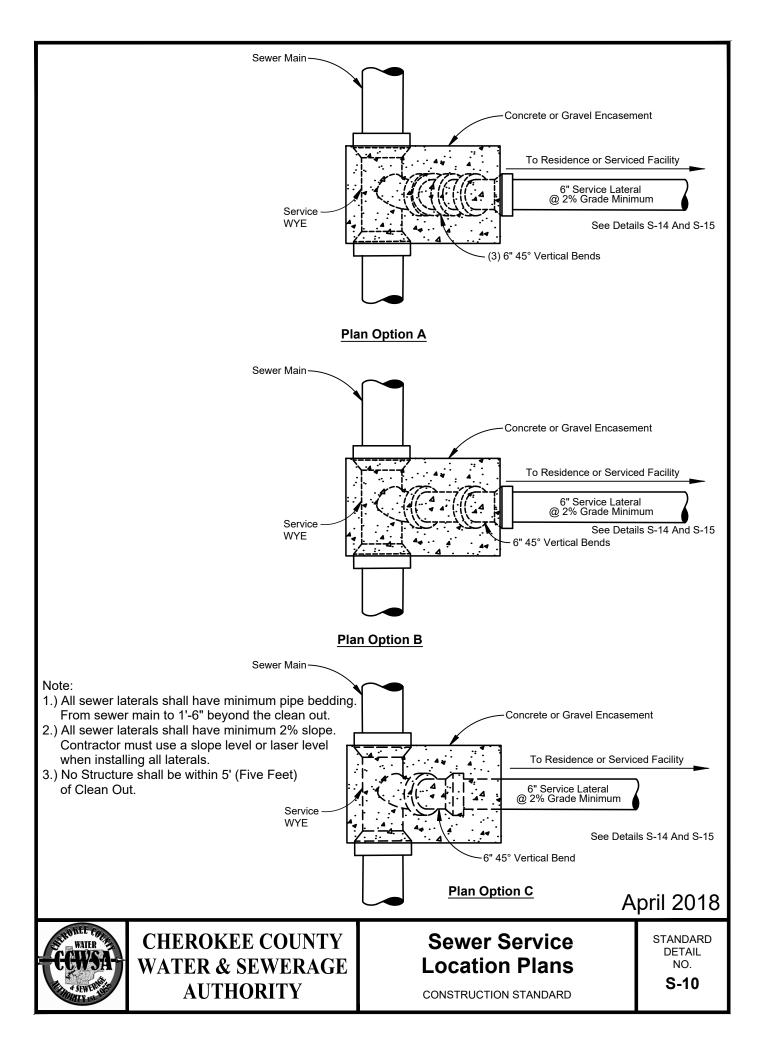
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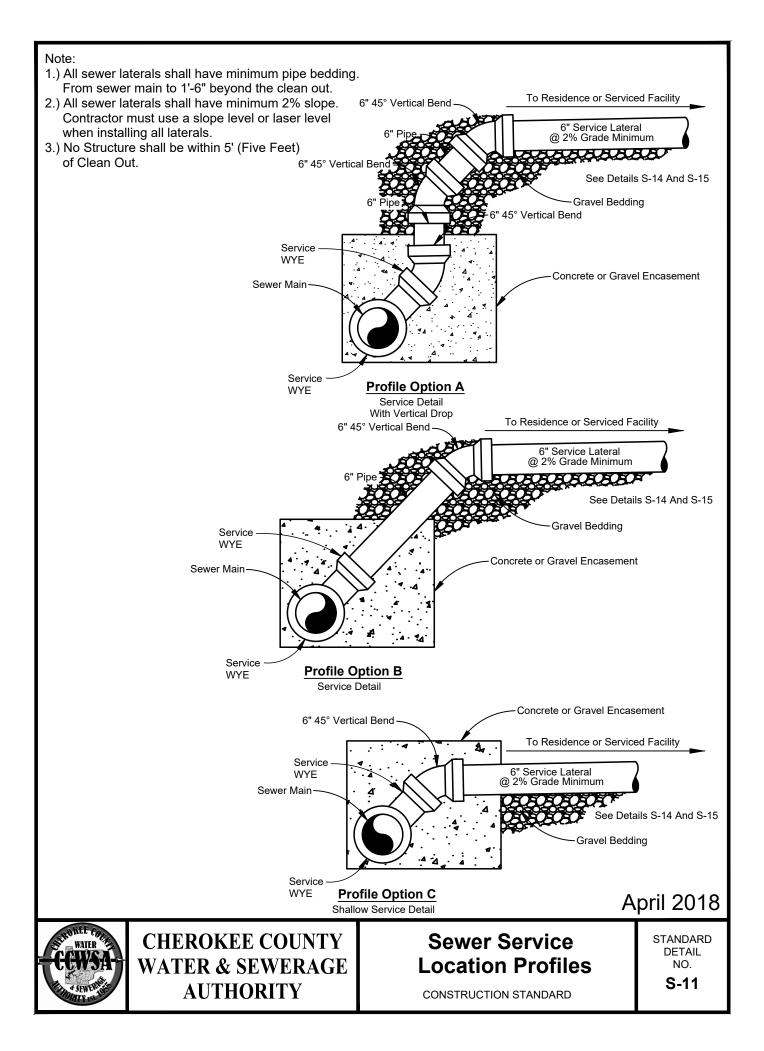
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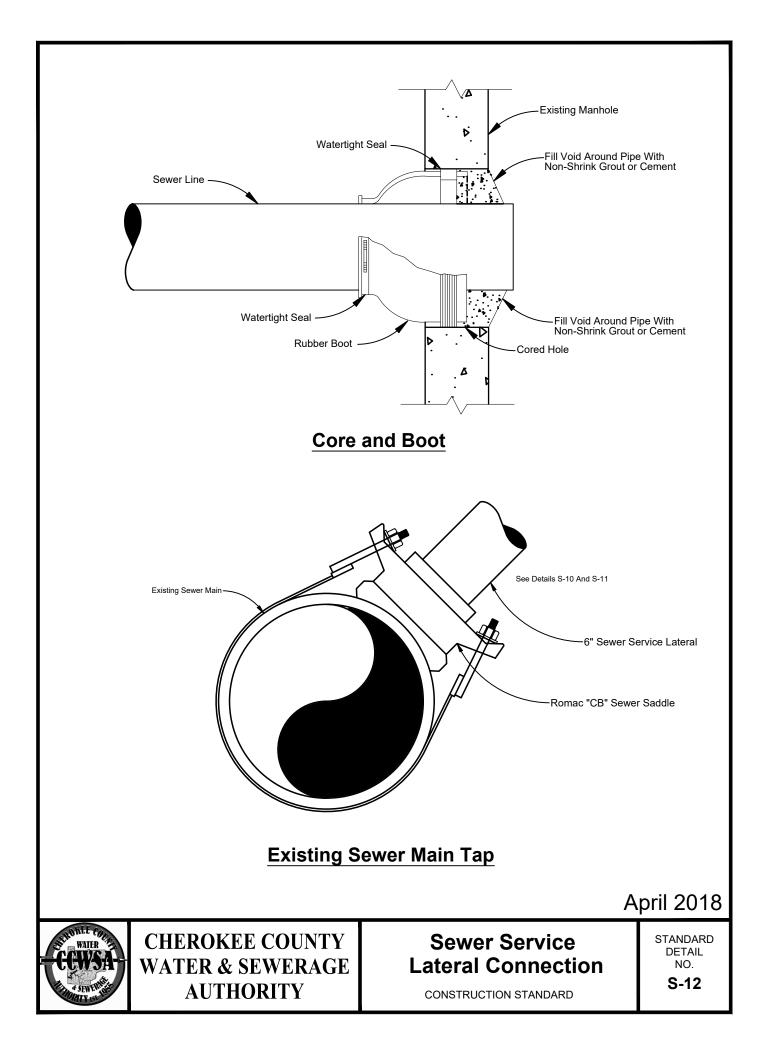
NOTE: PICK HOLES SHALL NOT PENETRATE THE COVER.

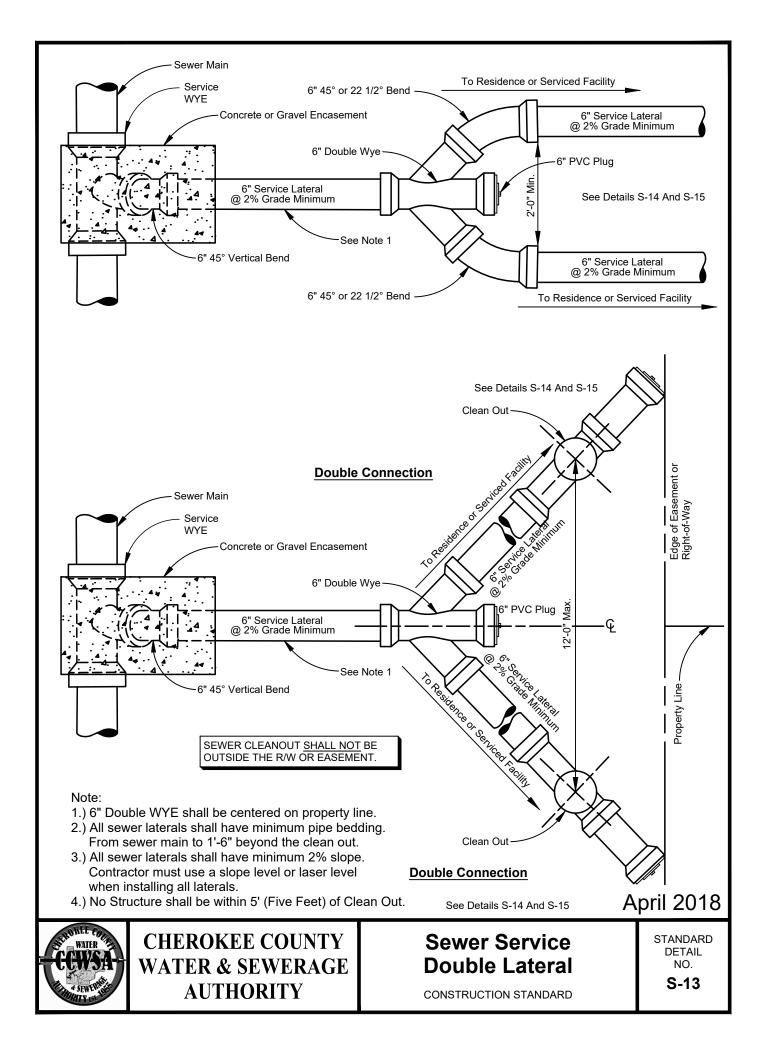


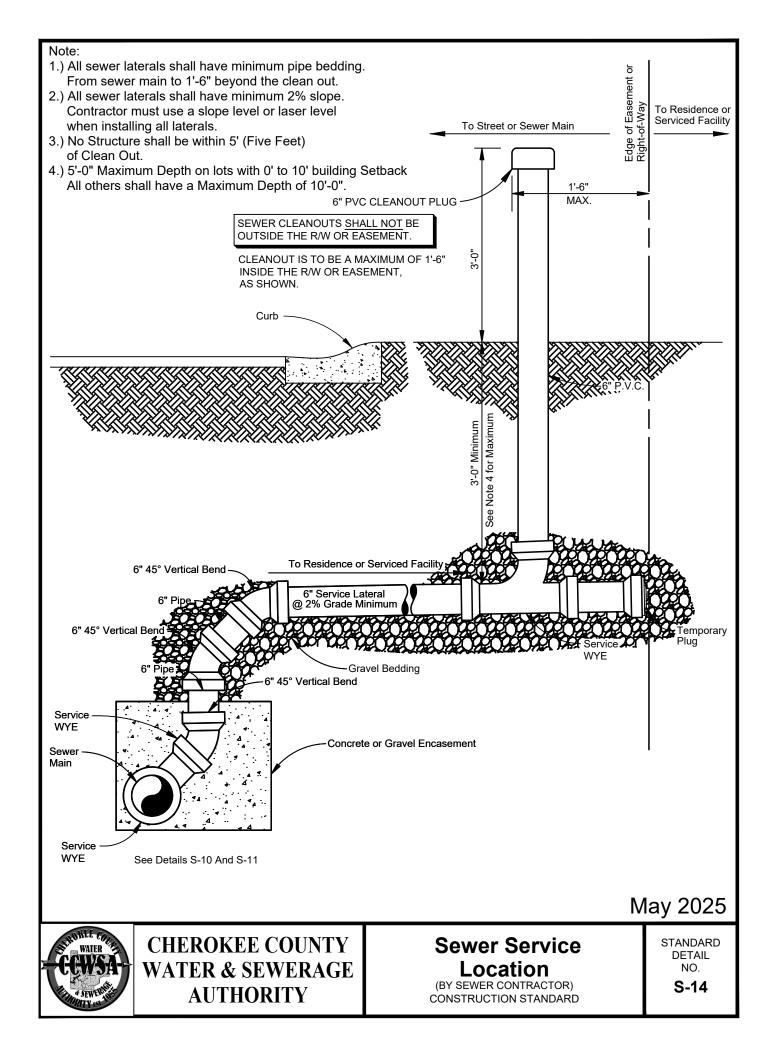


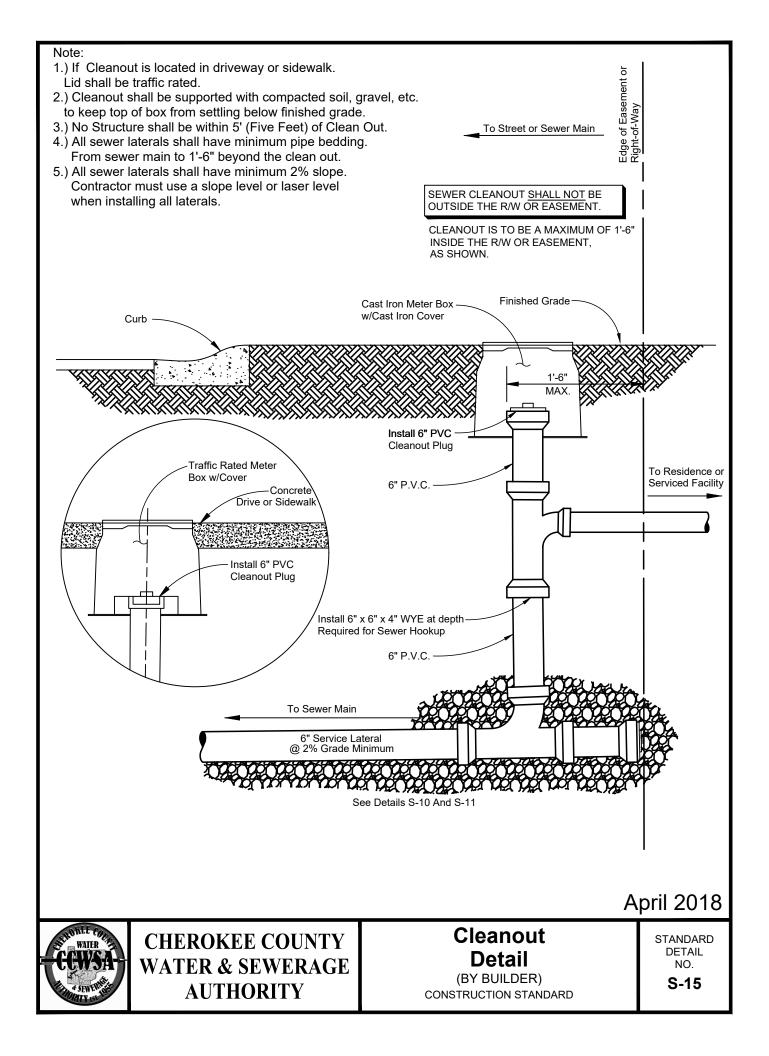


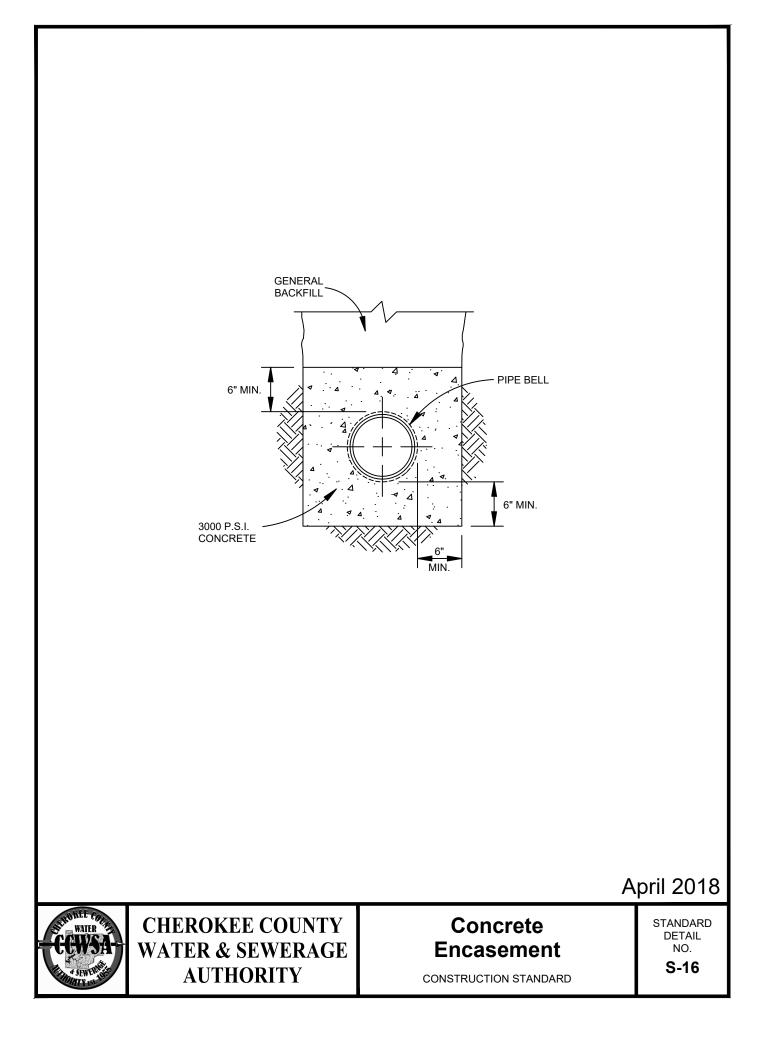


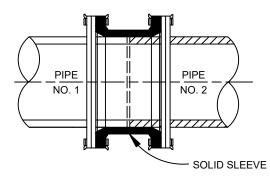












### PIPE ADAPTER JOINING DIFFERENT TYPES OF PIPE

NOTES:

- 1. FOR PIPE CONNECTIONS UP TO 12", USE A HARCO ADAPTER.
- 2. FOR PIPE CONNECTIONS GREATER THAN 12", USE A SOLID SLEEVE.
- 3. WHERE THE REQUIRED PIPE SIZES ARE DIFFERENT, INSTALL ONE SIZE

OF D.I.P. FROM MANHOLE TO MANHOLE.



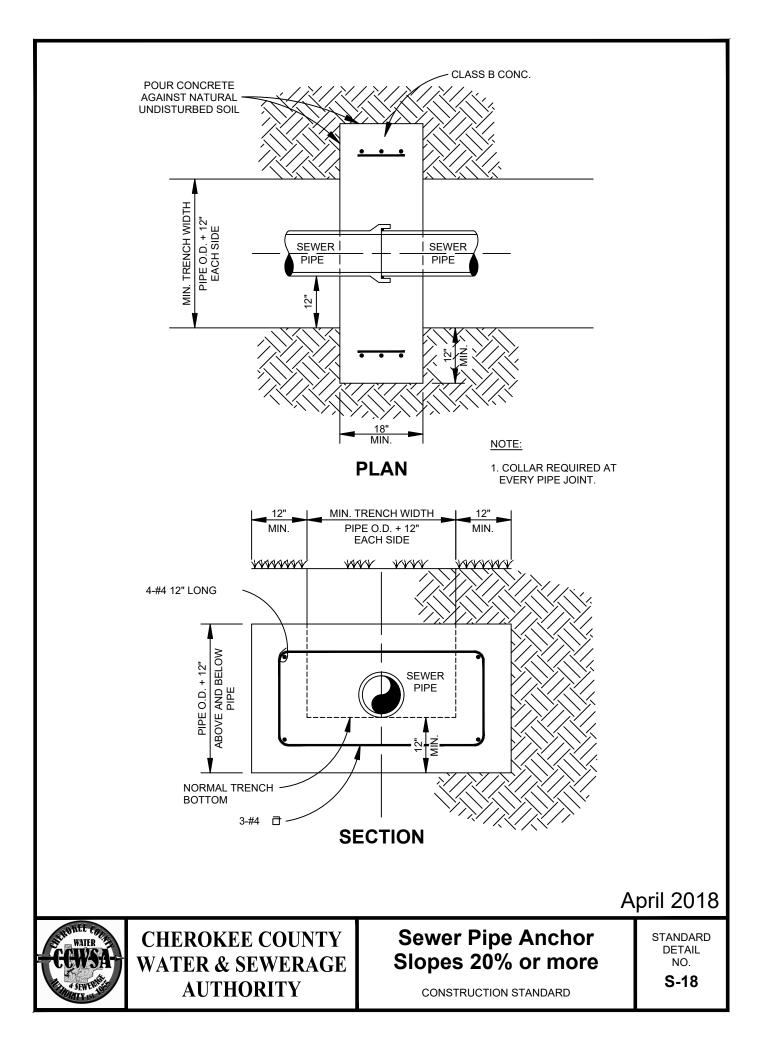
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

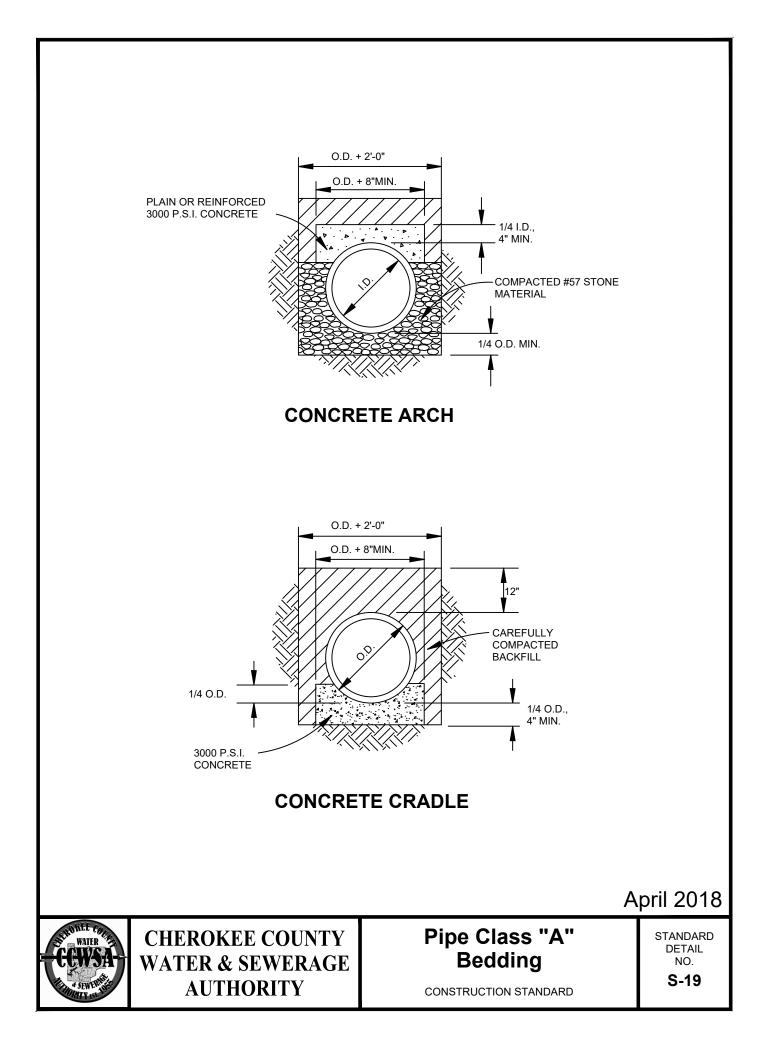
# Typical Pipe Adapter

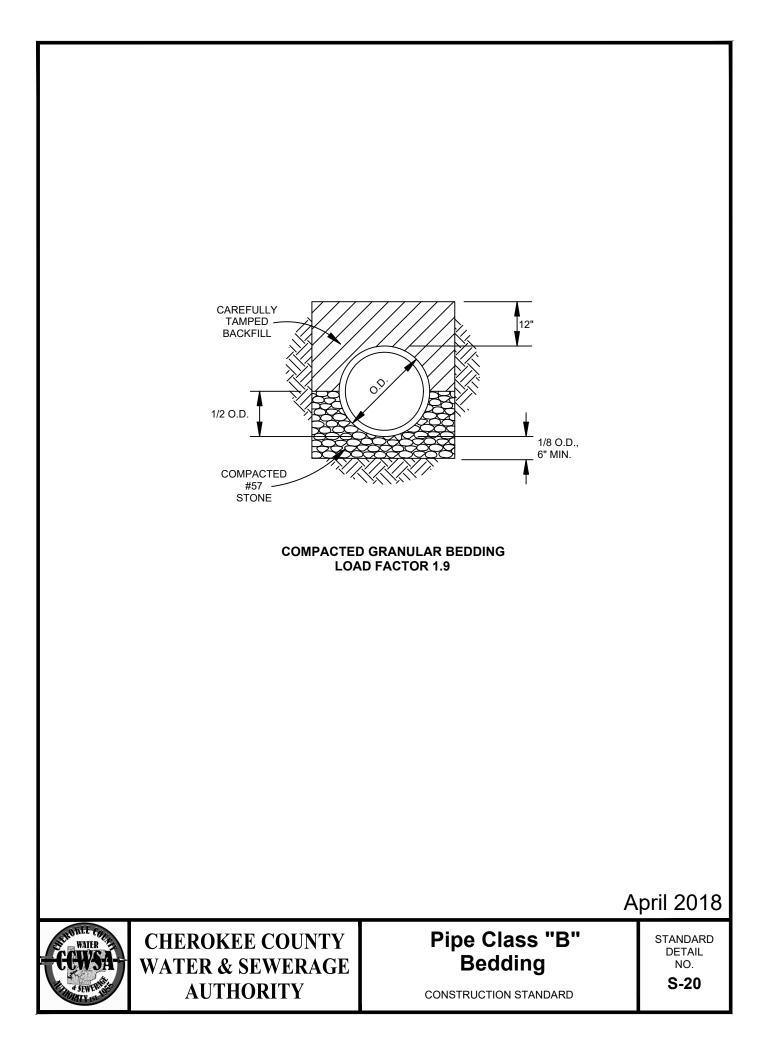
STANDARD DETAIL NO. **S-17** 

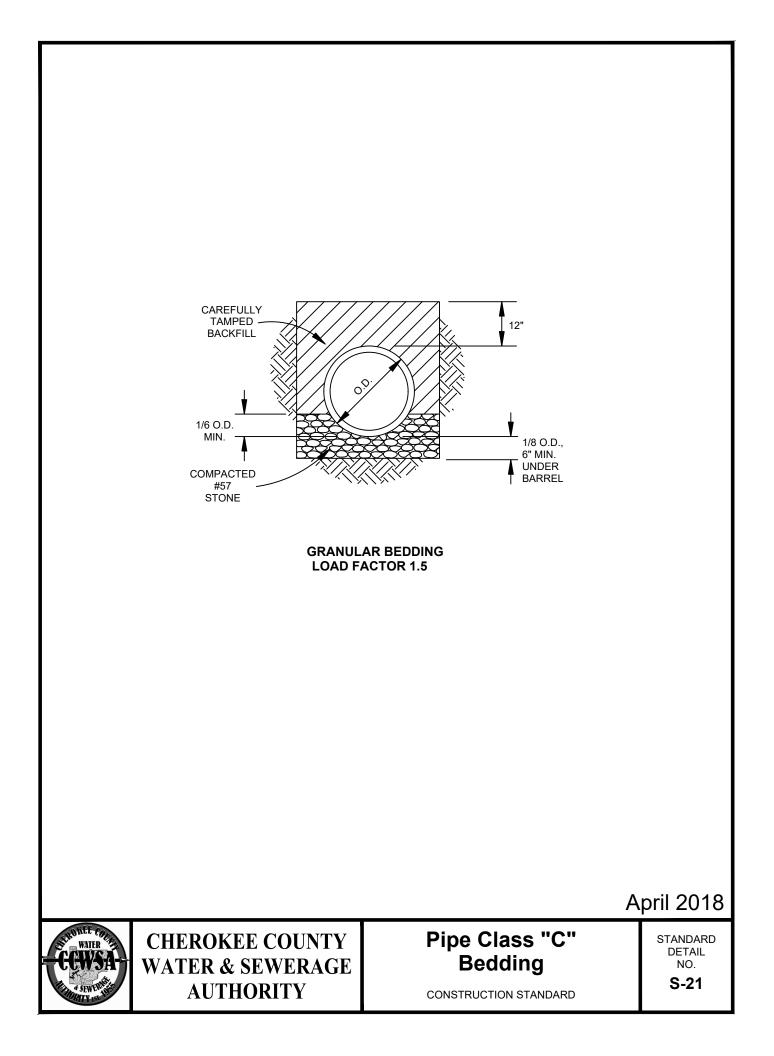
April 2018

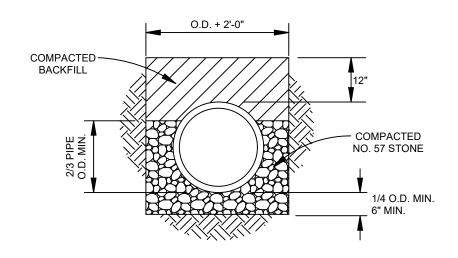
CONSTRUCTION STANDARD











NOTE: IF PVC SANITARY SEWER LINE IS CONSTRUCTED IN 100 YEAR FLOOD PLAIN OR BELOW GROUNDWATER TABLE, COMPACTED CLASS 1 MATERIAL IS REQUIRED TO THE TOP OF THE PIPE.

April 2018

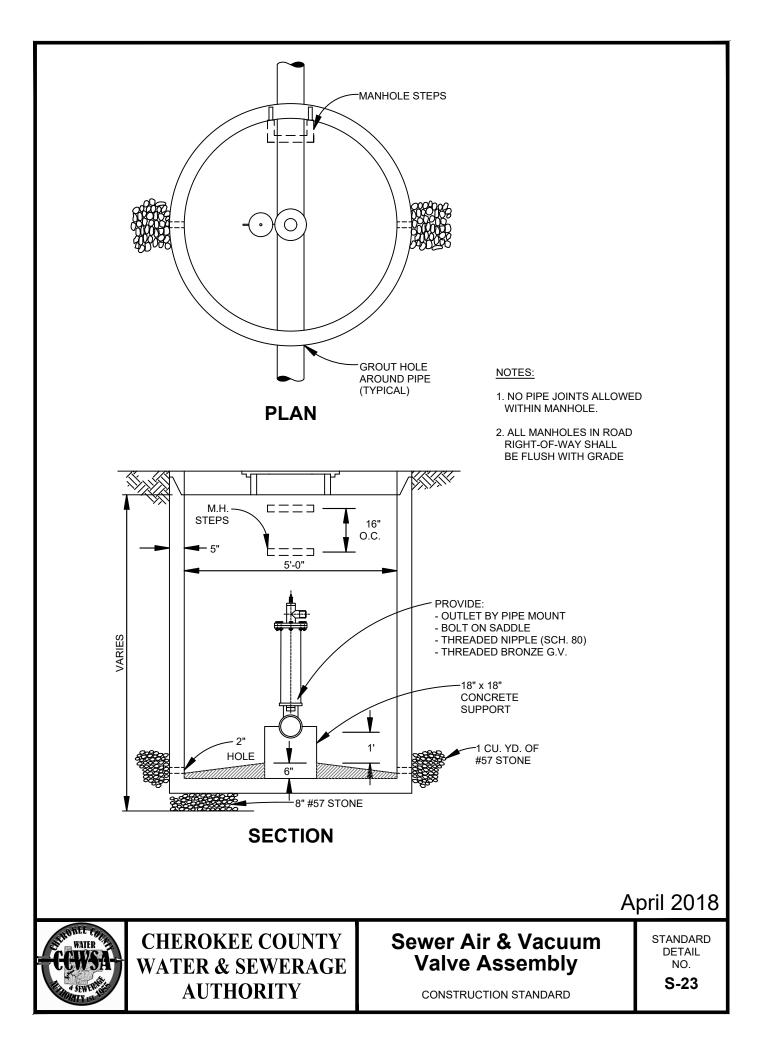


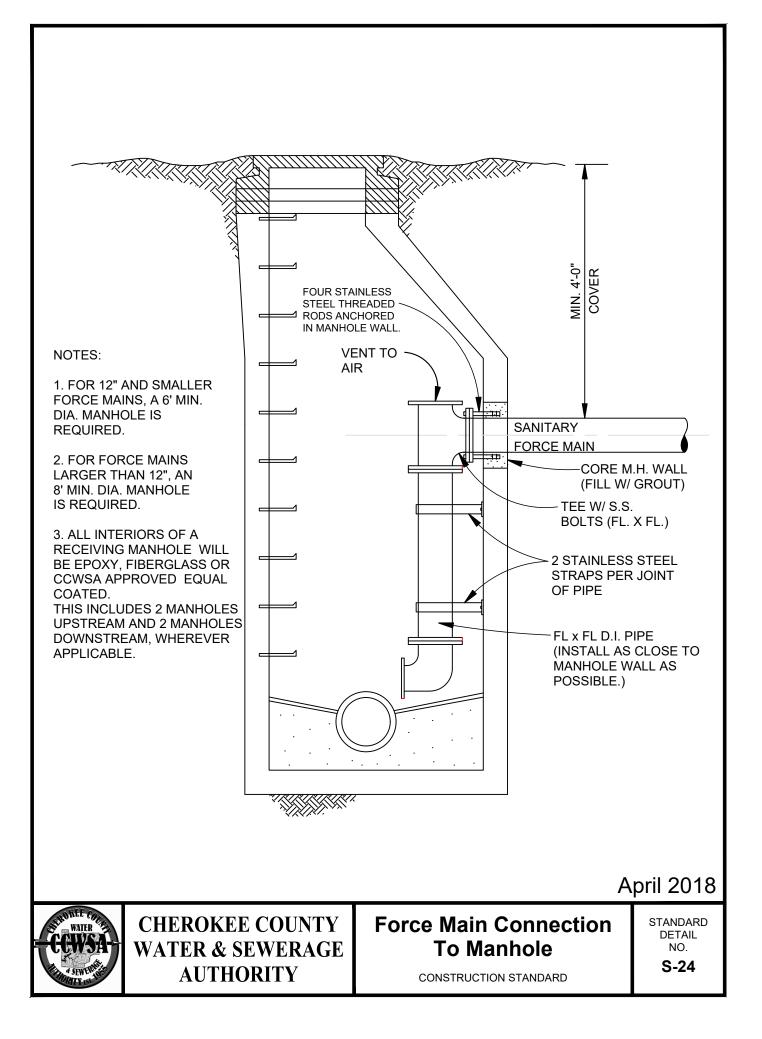
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

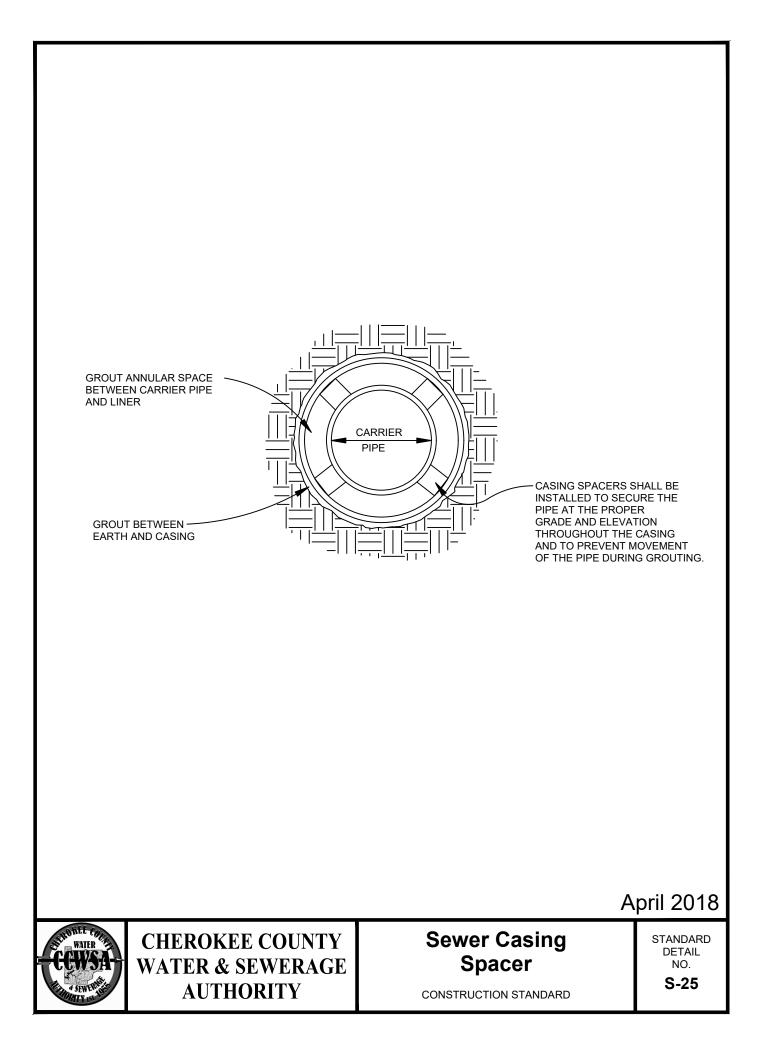
## Minimum P.V.C. Pipe Bedding

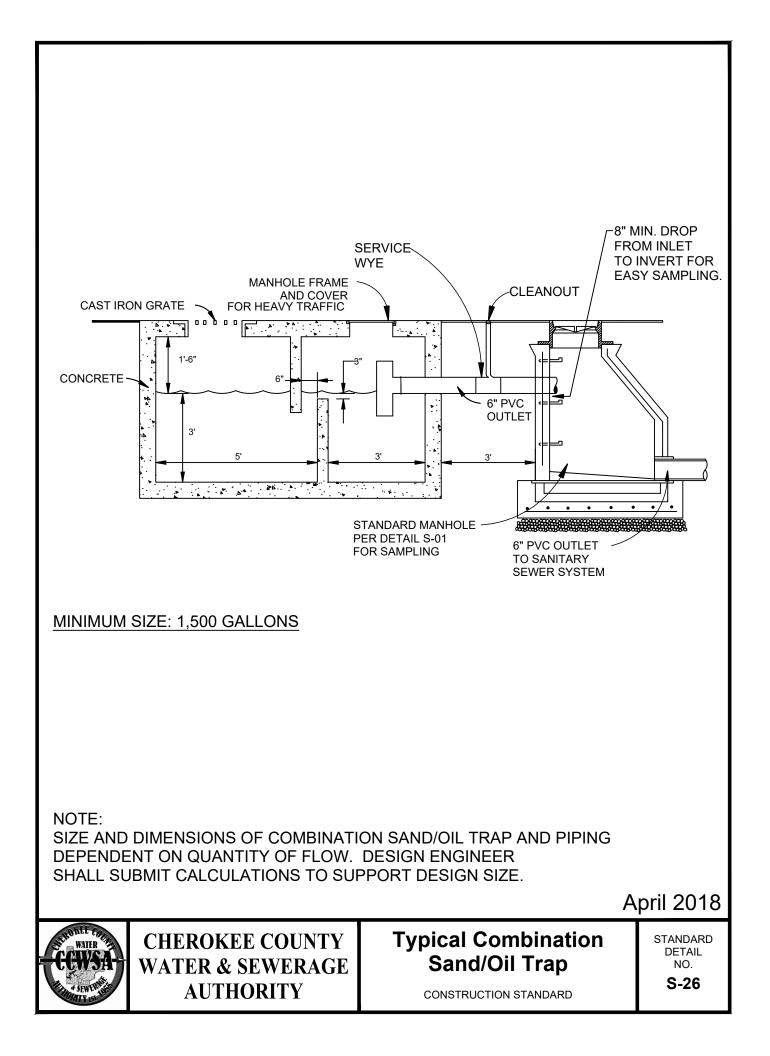
CONSTRUCTION STANDARD

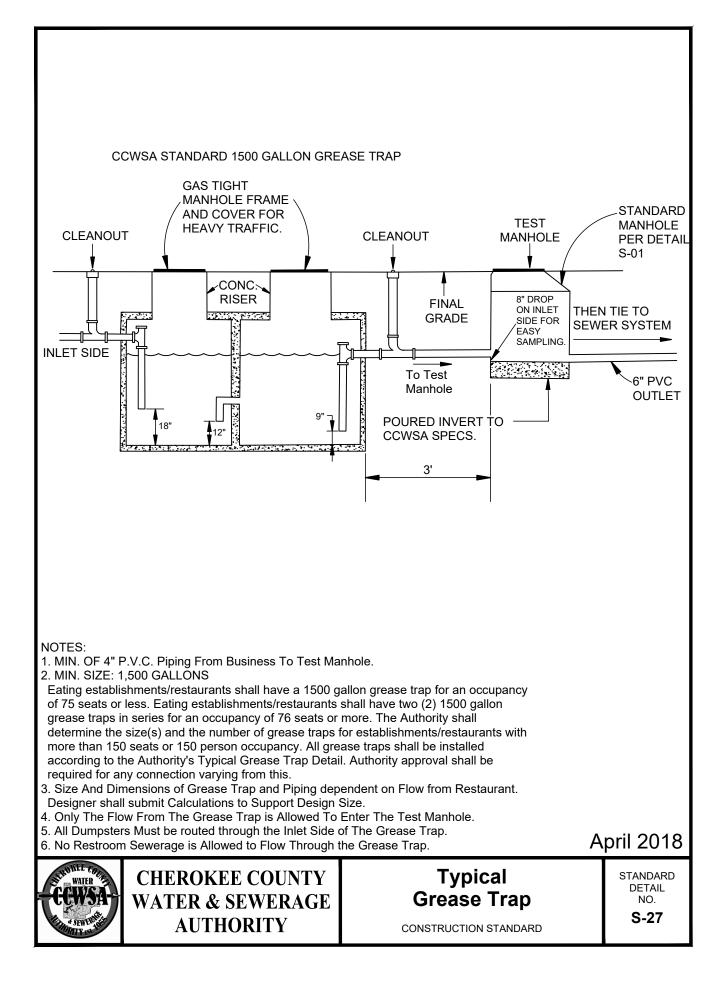
STANDARD DETAIL NO. **S-22** 

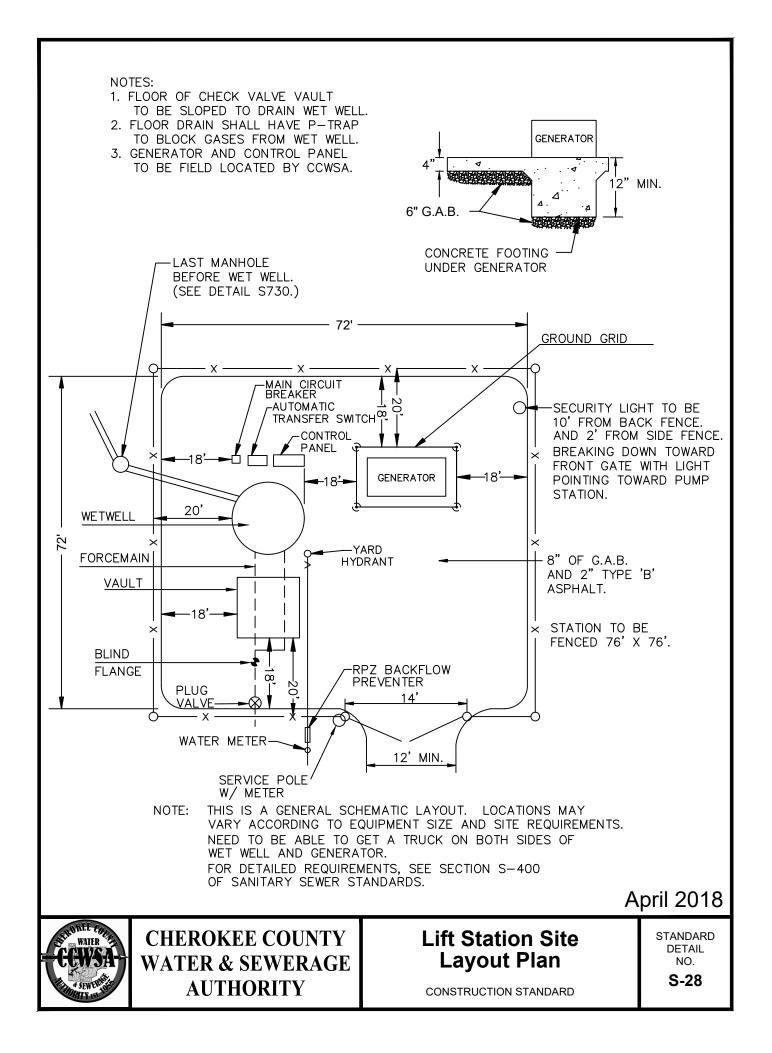


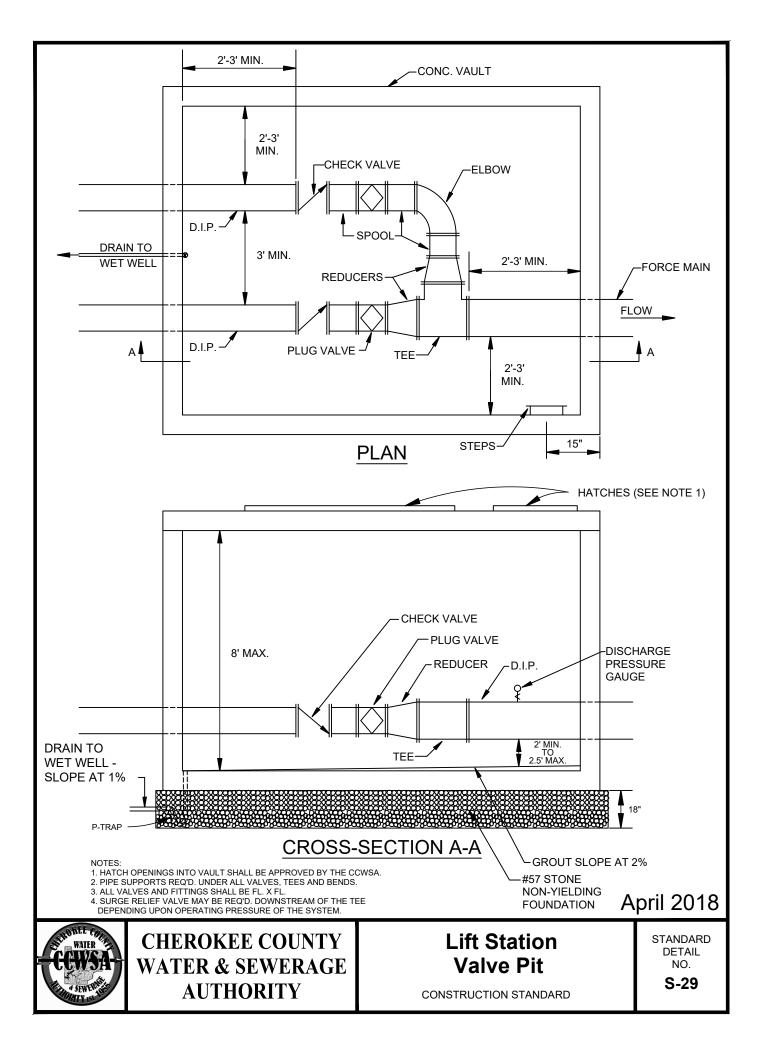


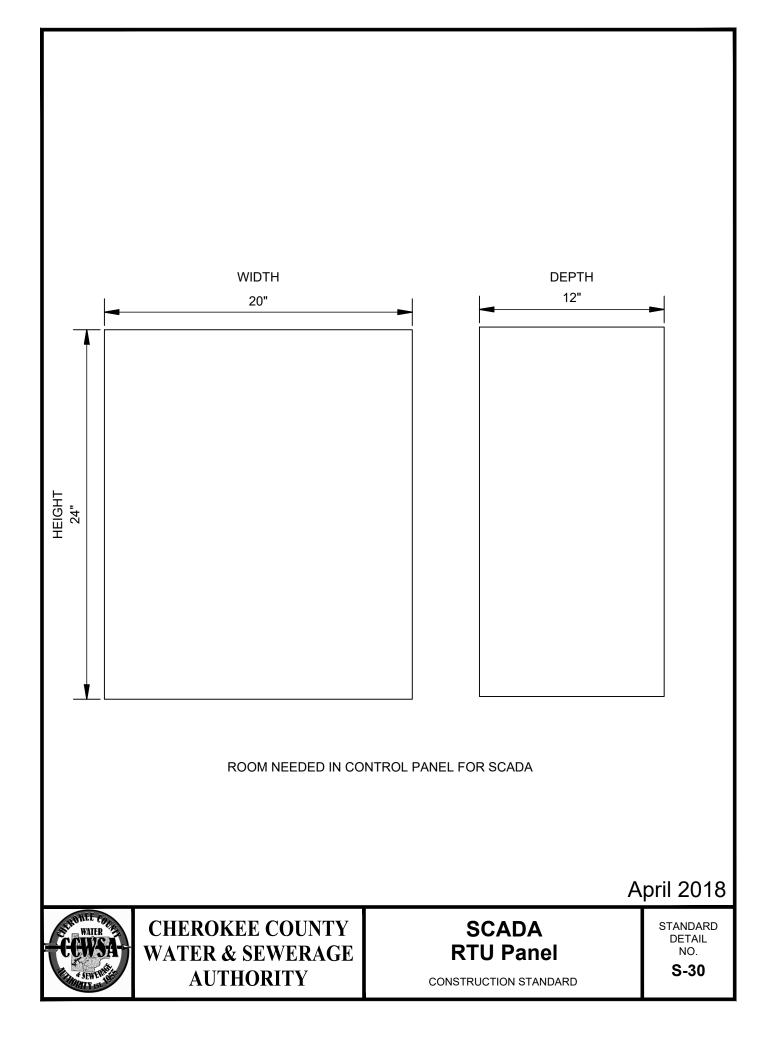


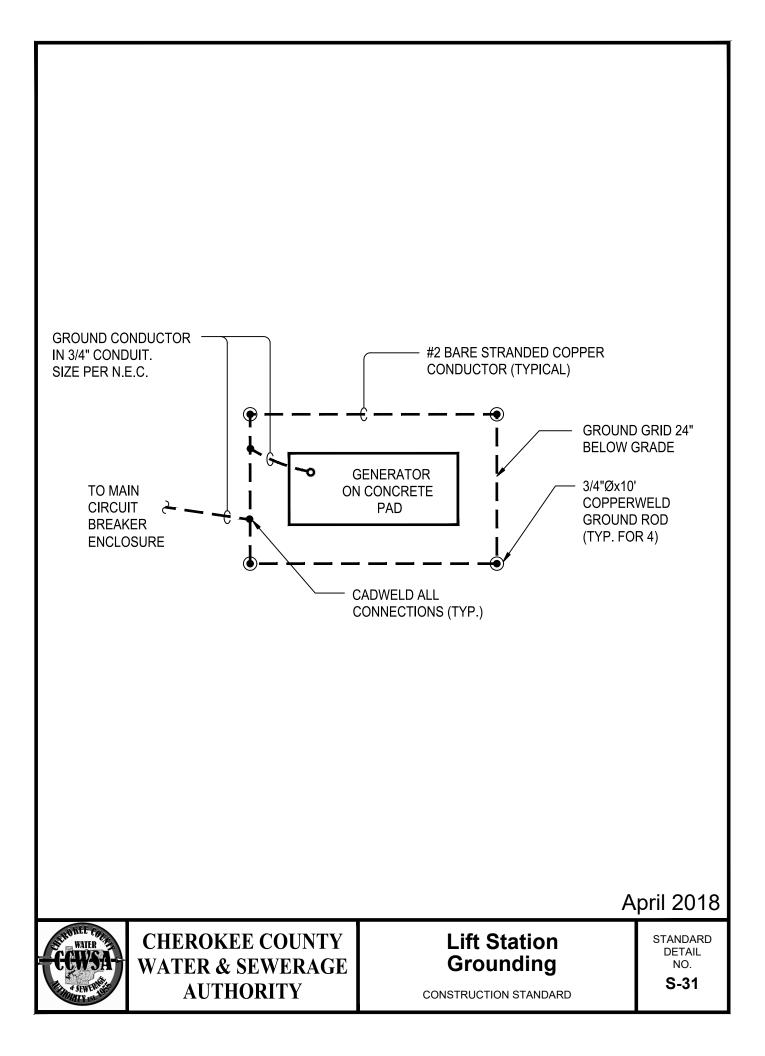


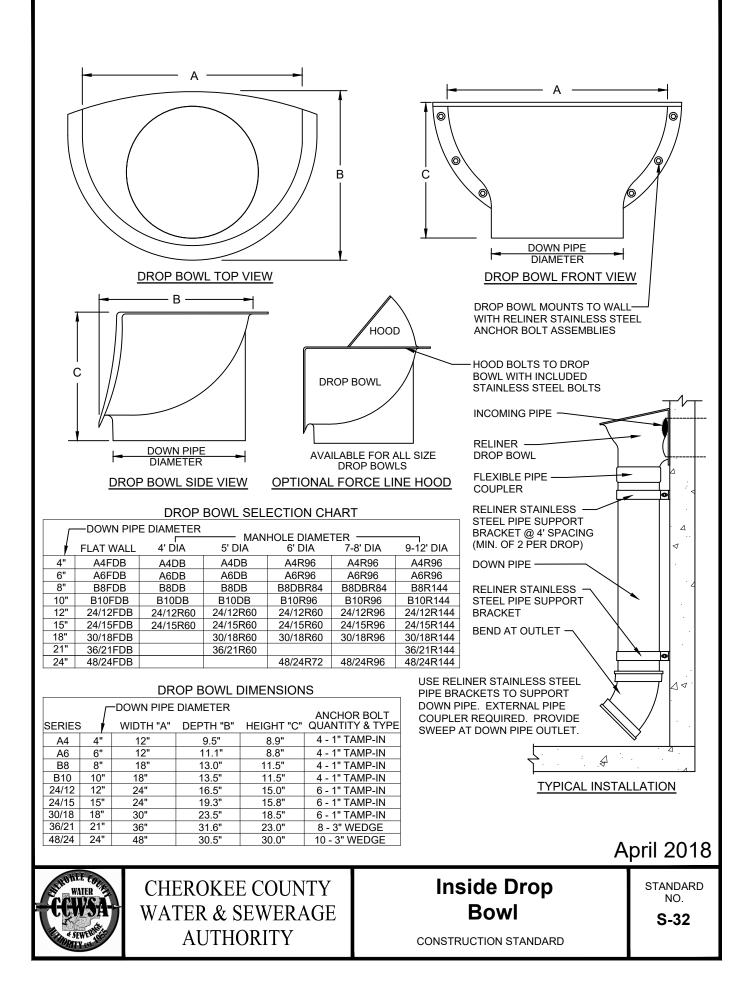












#### CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY SANITARY SEWER SYSTEM

#### **GENERAL CONSTRUCTION NOTES**

- **1.)** All sanitary sewer system construction must follow the current Cherokee County Water and Sewerage Authority Sanitary Sewer System Standards.
- 2.) For D.I.P. sewer lines, the minimum wall thickness shall be Class 50 and the interior lining shall be Protecto 401 ceramic epoxy. Wall thicknesses greater than the minimum called for above may be required due to greater depths or varying bedding requirements. Class C bedding is the minimum allowed.
- 3.) All Polyvinyl Chloride (PVC) sewers 6" to 15" in diameter shall meet the requirements for minimum wall thickness as specified under SDR 35 in ASTM D3034, latest revision. PVC sewers that are 18" and larger in diameter shall have a minimum wall thickness as specified under T-1 in ASTM F679, latest revision. PVC sewers with more than 12' of cover may require wall thicknesses greater than SDR 35 or T-1. PVC is not allowed for sewers greater than 24" in diameter or more than 16' of cover.
- 4.) Ductile Iron Pipe or CCWSA approved equal is required for sanitary sewer lines:
  - A.) Crossing storm sewers or other utilities with less than 2' of clearance
  - **B.)** Crossing water mains
  - C.) Crossing all streams and vegetative buffers
  - D.) For all cross country locations with less than 3' of cover
  - E.) For all locations in roadways with less than 5' of cover
  - F.) For all locations with 16' or more of cover
  - **G.)** With 20% or greater slope
  - H.) Inside all casings
  - **I.)** Installed in subdivision easements between lots
  - J.) Adjacent to all drop manholes.
  - K.) For all installations in fill material
  - L.) At all other locations designated by the CCWSA
- **5.)** Information regarding underground utilities on these plans is not guaranteed as to accuracy or completeness. Prior to beginning work, the Contractor shall request a field location through the utilities protection center and any utility owners thought to have facilities in the area. The Contractor shall promptly compare these field-marked locations with the project plans and then notify the designer of any anticipated problems or need for design changes. It is the Contractor's responsibility to excavate or cause the utility owner to excavate for the purpose of determining exact elevations or locations at utility crossings and other critical locations well in advance of the work under this contract. Damage to existing utilities resulting from the Contractor's negligence shall be repaired at the Contractor's expense. The Developer and/or the Developer's Contractor is responsible for verifying the exact location, size, and material of any existing water or sanitary sewer facility proposed for connection or use by this project.
- 6.) All sewer service laterals shall have a minimum diameter of 6" and a minimum grade of 2%. All sewer laterals shall be installed using a laser level or slope level. All laterals shall have minimum pipe bedding. Laterals "SHALL" be located per CCWSA Standard Details S-13, S-14 and S15. Clean out shall not be located outside of Right-of-Way or Easement. No structure can within 5' (five feet) of a sewer clean out. Including, but not limited to any type of building, porches, foundations, stairs, signs, fences, retaining wall, other types of walls, etc.....
- **7.)** The Developer shall obtain a land disturbance permit from Cherokee County governing all items related to erosion control.
- 8.) This project is located in Land Lots \_\_\_\_\_\_, in the \_\_\_\_\_ District of Cherokee County, Georgia.

- **9.)** Clearing will be kept to an absolute minimum. Vegetation and mulch will be applied to applicable areas immediately after grading is complete. Land disturbing will be scheduled to limit exposure of bare soils to erosive elements.
- **10.)** Construction activities will be performed in compliance with all applicable laws and regulations.
- **11.)** All marketable timber will be salvaged. Top soil will be salvaged, stock piled and spread on areas to be vegetated. Trees outside of the clearing line will be protected from damage by appropriate markings.
- **12.)** Contractor is responsible for staking the alignment of the proposed pipeline prior to pipe installation. If a conflict should arise, the contractor shall notify the designer at that time.
- 13.) All excavated dirt shall be placed on the high side of the trench away from any creeks.
- **14.)** Any fill dirt over the pipe shall be graded to prevent ponding.
- **15.)** The right-of-way or construction easement represents the limits of clearing for the complete job. The contractor shall not clear beyond this limit.
- **16.)** A copy of the approved construction plans must be kept on the job site at all times that construction is underway.
- **17.)** No bury pits are allowed.
- **18.)** Topographic ground elevations along all sewer lines, gravity and force mains, are from field-run surveys, not aerial photographs.
- **19.)** All easements must be acquired prior to the preconstruction meeting with the Chief Inspector.
- **20.)** The Developer/Contractor shall meet with the Chief Inspector at least 24 hours before beginning construction. The Contractor shall notify the Chief Inspector or his designated representative by 8:30 AM of each workday when work is scheduled unless authorized otherwise.
- **21.)** Sanitary sewer force mains shall be installed so that the top of the pipe is a minimum of four feet below final grade, four feet below the edge of the pavement, or four feet below the ditch paralleling the road, whichever is deepest.
- **22.)** Type 4 bedding is required at all restrained pipe installations.
- 23.) Contractor must show proof of insurance in the amount specified by the CCWSA. See Detail M-04
- 24.) A horizontal separation of at least 10 feet is required between existing or proposed water mains and existing or proposed sanitary sewer lines.
- 25.) A vertical separation of at least 18 inches is required where a sewer line crosses an existing or proposed water main. A full joint of sanitary sewer pipe is required to be centered at the water main crossing. See Section S316.2
- **26.)** No portion of this project is being constructed on or near an existing landfill, abandoned landfill, or any other site used for waste disposal.
- **27.)** Potable water and sanitary sewer structures are not allowed within a dam. Utility pipelines and structures must be a minimum of 30 feet outside the toe of slope of the dam.
- **28.)** Existing County roads shall "**NOT**" be open cut unless permission is granted by the Cherokee County Department of Public Transportation.

- **29.)** Plan approval is valid for 12 months without beginning construction. Plans shall be subject to beginning the process of review and approval if 12 months expire prior to the start of construction.
- **30.)** As-Built drawings of water and sanitary sewer facilities are required to be submitted to the CCWSA upon completion of the project.
- **31.)** If construction plans are stamped for a full project, and then the Developer revises the plans to build the development in phases, no construction or field inspection will be allowed to begin until the revised, phased plans are re-approved and stamped for the phased construction.
- **32.)** All streams and protective buffers shall be crossed in accordance with current County and State regulations.
- **33.)** Inside of steel casings, pipe joints shall be restrained using Fast-Grip gaskets or approved equal.
- **34.)** Concrete footings are required for all manholes that are 16' in depth or more and for all manholes installed in fill material.
- **35.)** Sanitary sewers in roadways shall be installed with a minimum of 7' of cover where laterals are located in order to obtain a minimum cover of 3' over the lateral at the R/W limit, or DIP laterals are required.
- **36.)** The CCWSA shall not be responsible for any building that is built too low to be served by the sanitary sewer system.
- 37.) The CCWSA shall not be responsible for any sanitary sewer services covered or buried by construction.
- **38.)** Soil adjacent to all manholes located in roadways will be tested for 95% compaction. The CCWSA must receive a copy of the results of the testing before the final plat will be signed.
- **39.)** When transitioning from DIP to PVC, the Contractor must utilize solid sleeves or "Harco" fittings.
- **40.)** All angles between "in" lines and "out" lines for manholes shall be labeled. Acute angles (angles<90 degrees) are not allowed for sewer mains or sewer services.
- **41.)** Sewer lines that have slopes greater than 20% shall be DIP and shall be provided with concrete anchors (CCWSA Standard Detail S-18).
- **42.)** Manholes located in future streets must be installed to be 48" or higher above grade.
- **43.)** Manholes that are located outside of roadways shall be installed to be at least 18" above grade and shall be provided with self-sealing, bolt-down covers.
- **44.)** For any new project connecting to an existing manhole, the Contractor shall core and boot the existing manhole at an elevation that is 2 feet or less from the existing invert out.
- **45.)** Inside drop manholes shall be 5 feet in diameter and shall be built in accordance with CCWSA Standard Detail S-03.
- **46.)** All force mains paralleling water mains shall be encased in green polyethylene tubing so as to identify the force main as sanitary sewer.
- **47.)** Locator wire must be installed above all sewer lateral lines.

- 48.) Sanitary sewer cleanouts shall be installed for all service laterals at the edge of the sewer easement or right-of-way. See CCWSA Standard Details S-13, S-14 and S-15. CCWSA shall maintain the sewer mains and sewer laterals to the County, City or State Right-Of-Way or to the edge of an easement dedicated to CCWSA. If sewer main is located within a private ingress-egress or a blanket utility easement, CCWSA shall maintain sewer mains and laterals from back of curb to back of curb. In the event of zero building setback adjacent to a Right-Of-Way, CCWSA will maintain sewer mains and laterals from back of curb to back of curb. Clean out shall not be located outside of Right-of-Way or Easement. No structure can be within 5' (five feet) of a sewer clean out. Including, but not limited to any type of building, porches, foundations, stairs, signs, fences, retaining wall, other types of walls, etc......
- **49.)** Horizontal locations will be referenced to Georgia State Plane Coordinate System NAD 83 West Zone Feet.
- **50.)** Vertical locations will be referenced to North American Vertical Datum (NAVD 88).
- 51.) Orthometric locations will be referenced to GEOID 99/03
- **52.)** No landscaping or structures will be allowed inside CCWSA easements.
- **53.)** Must show all street lights within development.
- 54.) Must show 911 address for each lot or parcel.

### Street Light Ordinance

Pole Specifications:

30 Foot Poles Only

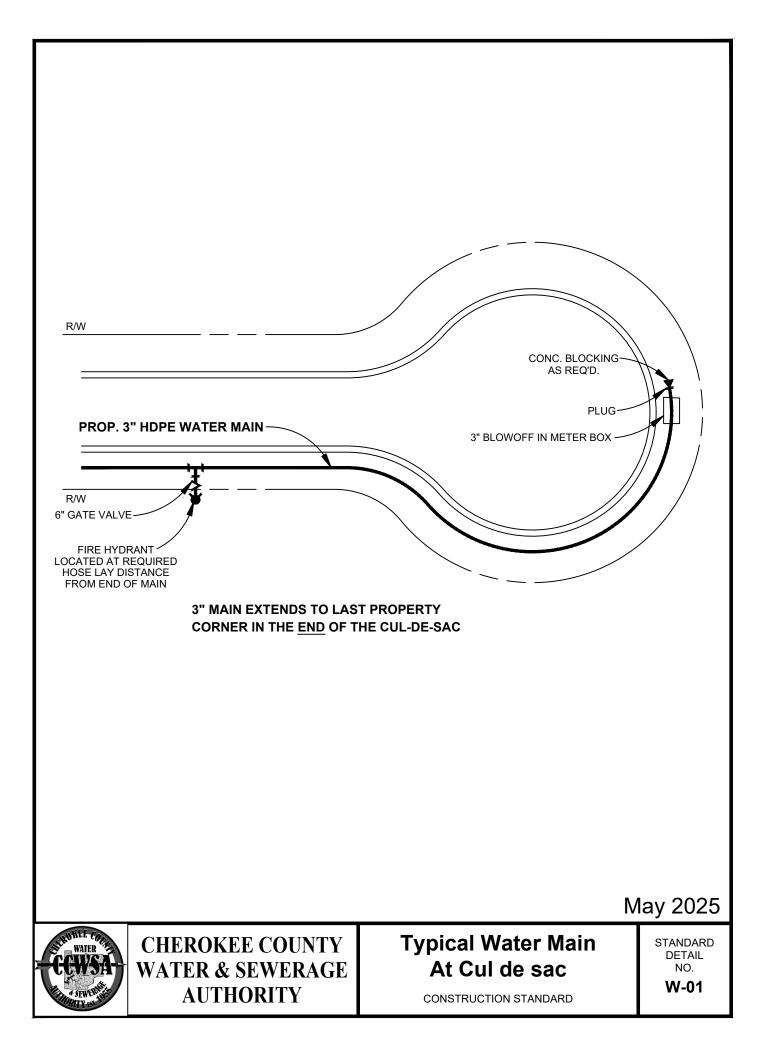
- Wood or Fiberglass Only
- Arms must be 2 1/2' to 6' long

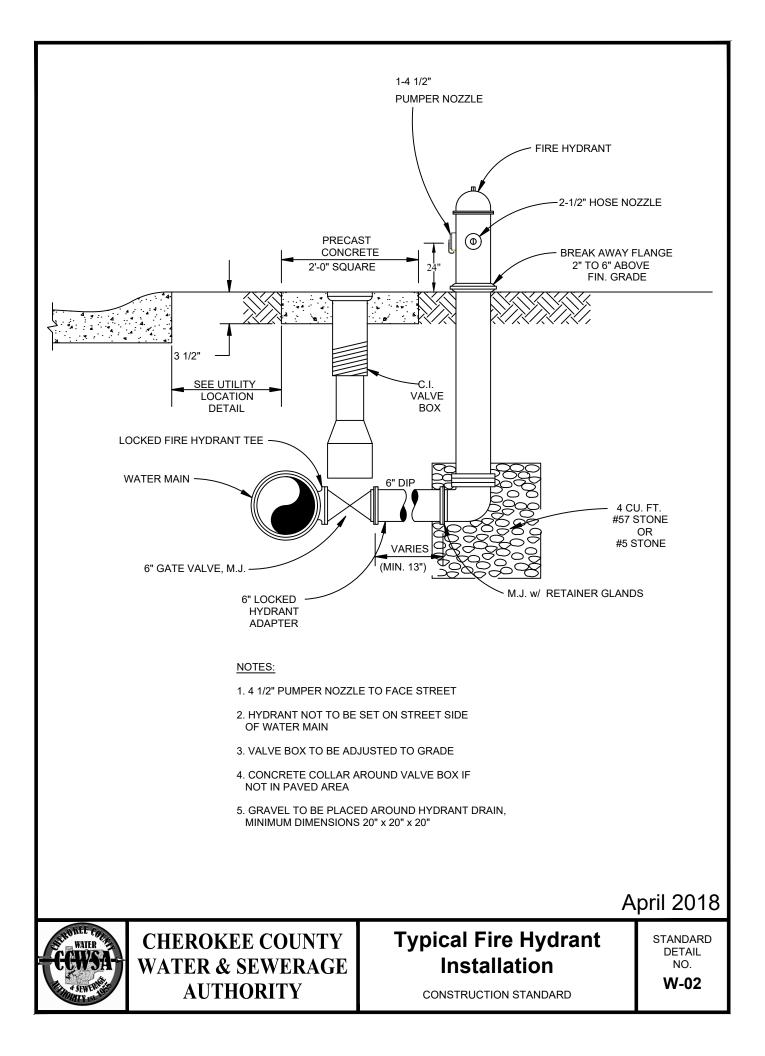
Roadway Fixtures

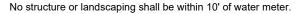
Street light plans are submitted by the Power Companies to the Street Light Coordinator. All power pole contributions must be paid by the Developer **<u>before</u>** the release of water meter sales.

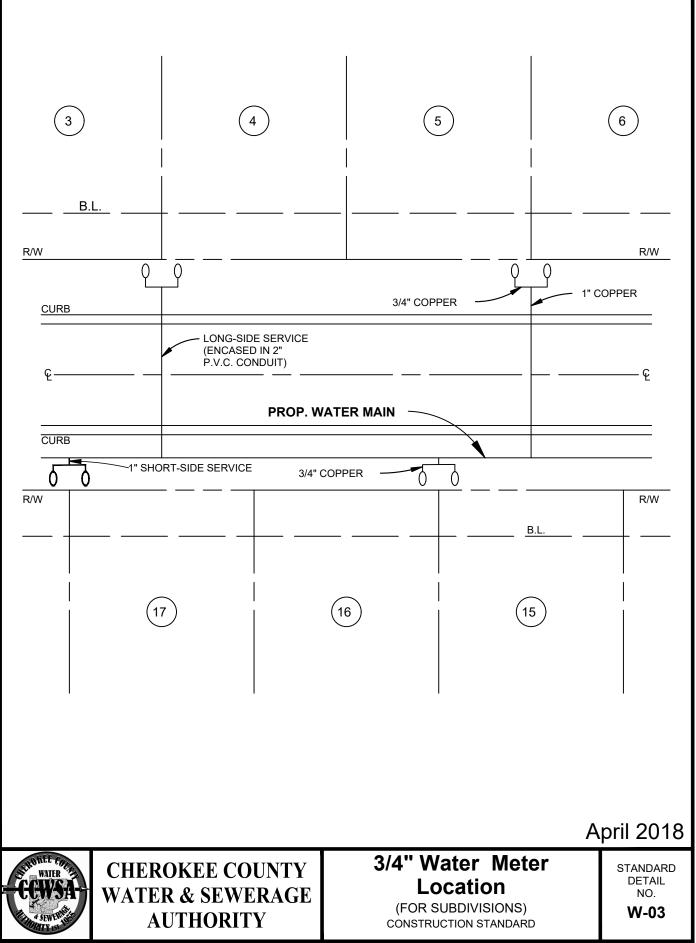
The above does not apply to subdivisions that are located inside city limits.

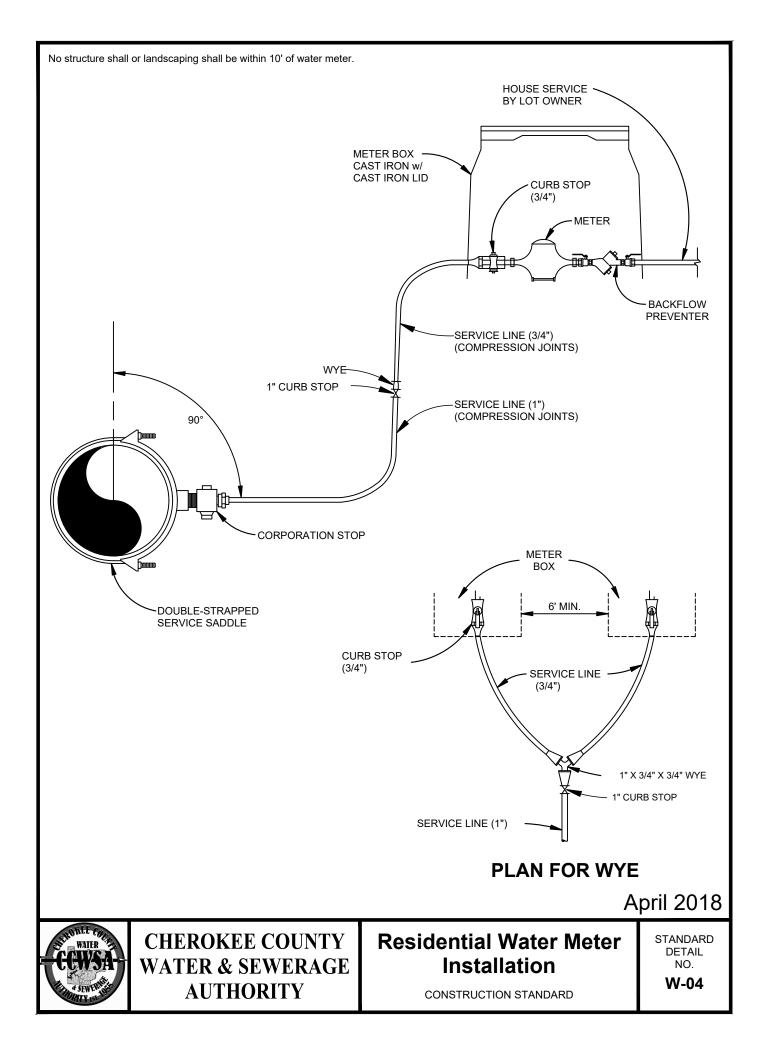
Any further questions please call: Street Light Coordinator at (770) 479-9107

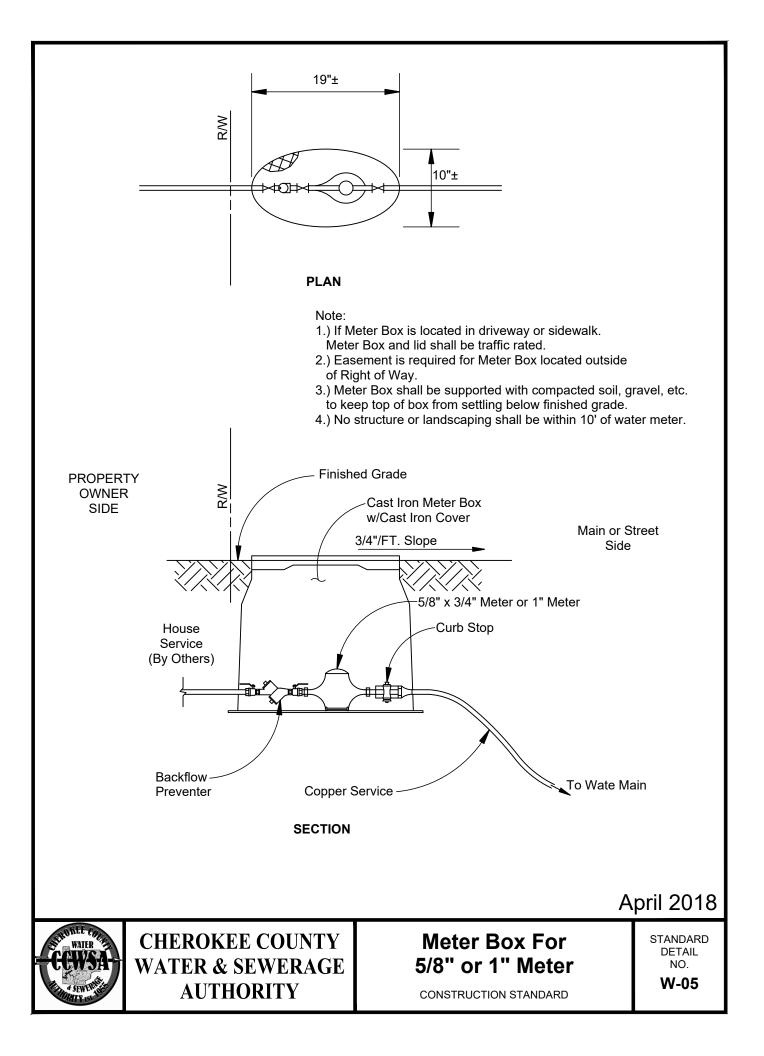


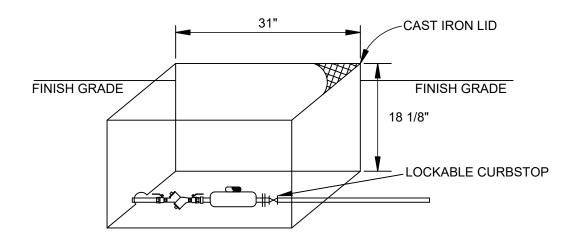












#### Note:

- 1.) If Meter Box is located in driveway or sidewalk. Meter Box and lid shall be traffic rated.
- 2.) Easement is required for Meter Box located outside of Right of Way.
- 3.) Meter Box shall be supported with compacted soil, gravel, etc. to keep top of box from settling below finished grade.
- 4.) Jumbo boxes are to be used with meters larger than 1" and smaller than 3". (1.5" and 2" meter)
- 5.) A two bolt flange is required for the connection of these size meters.
- 6.) All meters larger than 3/4" must have a lockable curbstop.
- 7.) Meter Box: Sigma (MBX-5A) or equal acceptable by the Authority.
- 8.) No structure or landscaping shall be within 10' of water meter.



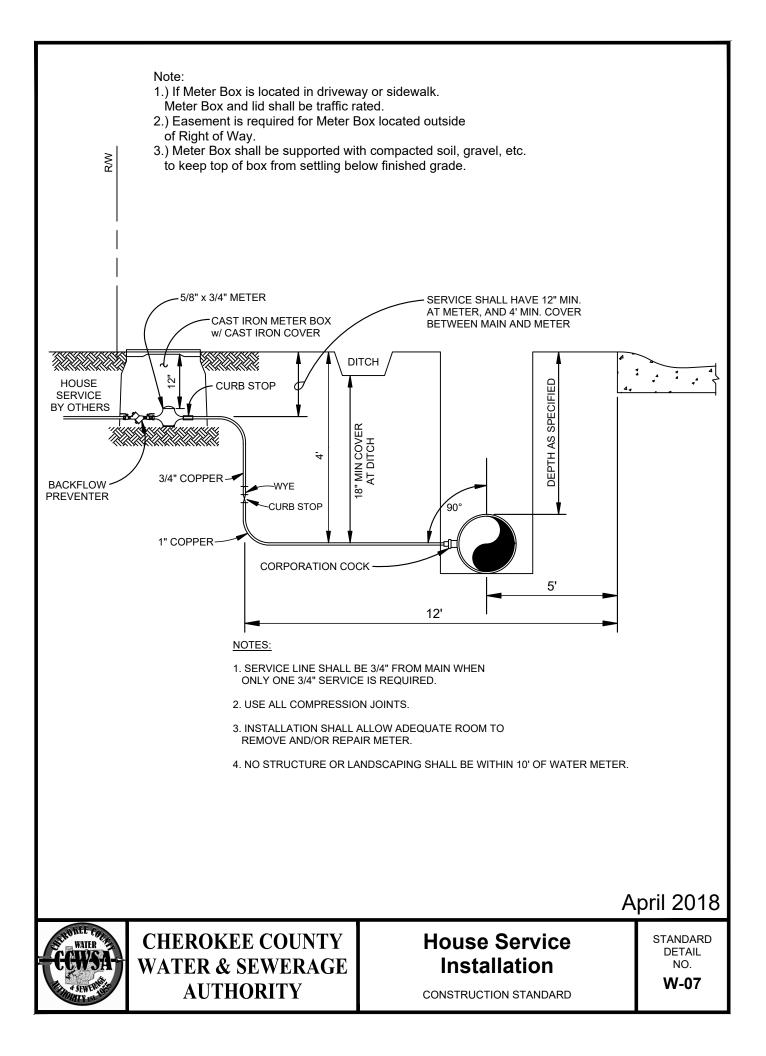


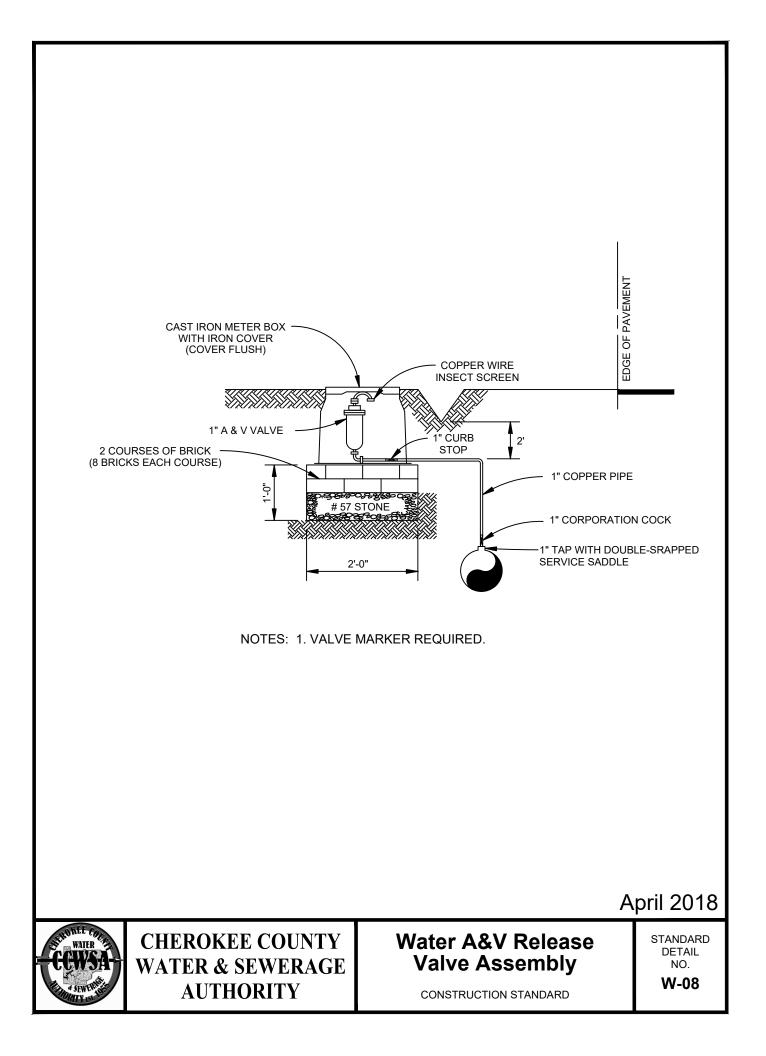
## CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

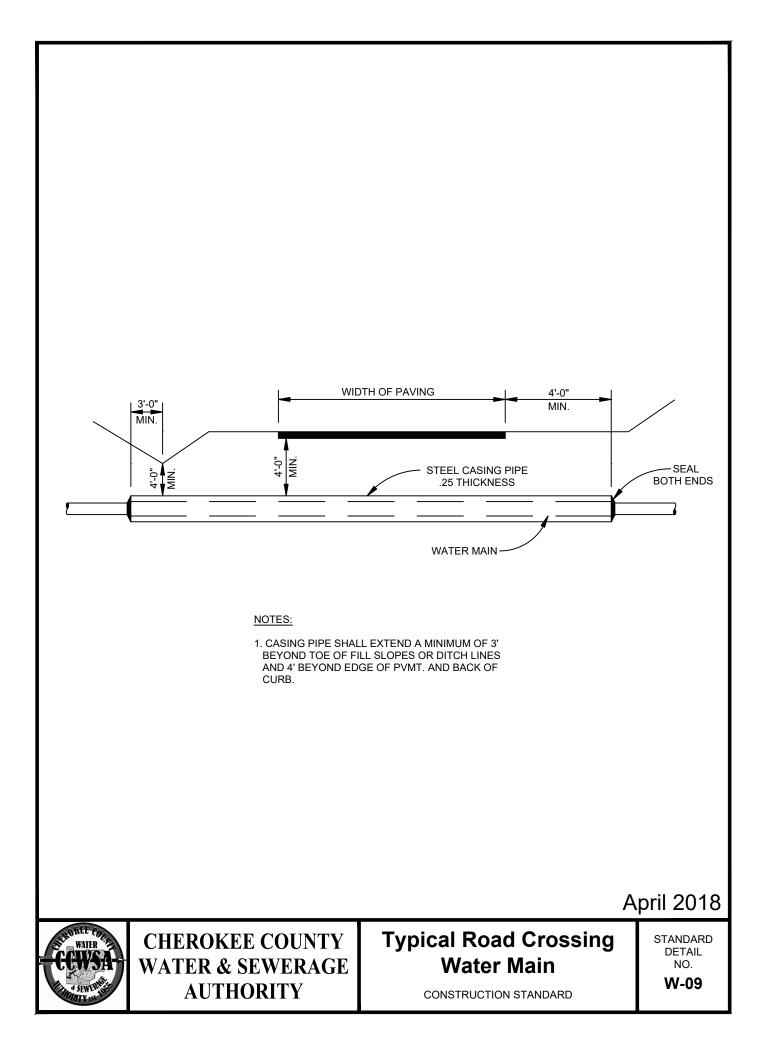
## Standard Jumbo Cast Iron Meter Box

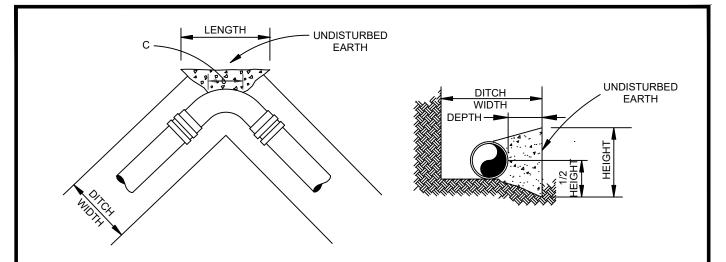
STANDARD DETAIL NO. **W-06** 

CONSTRUCTION STANDARD









#### TABLE FOR CONCRETE BLOCKING (250 PSI TEST PRESSURE)

#### MINIMUM DIMENSIONS OF BLOCKING

FITTING	SIZE	DEPTH (FT.)	LENGTH (FT.)	<u>"C" (IN.)</u>	HEIGHT (FT.)	VOLUME (C.Y.)	THRUST (LB.)
11 1/4° BEND 11 1/4° BEND 11 1/4° BEND	6" 8" 10"	1.0 1.0 1.0	2.0 2.0 2.0	6 7 9	1.0 1.0 1.0	0.04 0.05 0.07	1,385 2,465 3,850
11 1/4° BEND	12"	1.0	2.5	11	1.5	0.12	5,550
11 1/4° BEND 11 1/4° BEND	16" 20"	2.0 2.0	2.5 3.5	12 15	2.1 2.5	0.26 0.48	9,860 15,406
11 1/4° BEND	24"	2.0	4.0	18	3.0	0.70	22,185
22 1/2° BEND	6"	1.0	2.0	6	1.0	0.04	2,760
22 1/2° BEND	8"	1.0	2.0	7	1.5	0.06	4,905
22 1/2° BEND	10"	1.0	2.0	9	2.0	0.10	7,665
22 1/2° BEND	12"	1.0	3.0	11	2.0	0.16	11,040
22 1/2° BEND	16"	2.0	3.5	12	3.0	0.45	19,625
22 1/2° BEND	20"	2.0	4.0	15	4.0	0.74	30,665
22 1/2° BEND	24"	3.0	5.0	18	4.5	1.47	44,160
45° BEND	6"	1.0	2.0	6 7	1.5	0.06	5,415
45° BEND	8"	1.0	2.5		2.0	0.10	9,625
45° BEND	10"	2.0	3.5	9	2.5	0.31	15,040
45° BEND	12"	2.0	3.5	11	3.0	0.41	21,655
45° BEND	16"	3.0	5.0	12	4.0	1.45	38,495
45° BEND	20"	4.0	6.0	15	5.0	2.05	60,145
45° BEND	24"	4.0	7.5	18	6.5	3.35	91,610
90° BEND	6"	1.0	2.5	12	2.0	0.13	10,005
90° BEND	8"	2.0	3.0	14	3.0	0.38	17,785
90° BEND	10"	2.5	4.5	18	3.0	0.74	27,785
90° BEND	12"	3.0	5.0	20	4.0	1.24	40,000
90° BEND	16"	4.0	6.5	26	5.5	2.91	71,125
90° BEND	20"	4.0	8.0	32	7.0	4.68	111,135
90° BEND	24"	5.0	10.0	40	8.0	8.50	160,035

#### NOTES:

1. SOIL BEARING STRENGTH OF 2000 PSI IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.

2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.

3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.

4. CONCRETE SHALL BE 3000 PSI, CLASS A.

5. ALL IRON FITTINGS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

6. VERTICAL BENDS WITH AN UPWARD THRUST SHALL BE RESTRAINED AS SHOWN IN STANDARD W-12.

7. VERTICAL BENDS WITH A DOWNWARD THRUST SHALL BE RESTRAINED AS SHOWN IN STANDARD W-13.

## April 2018

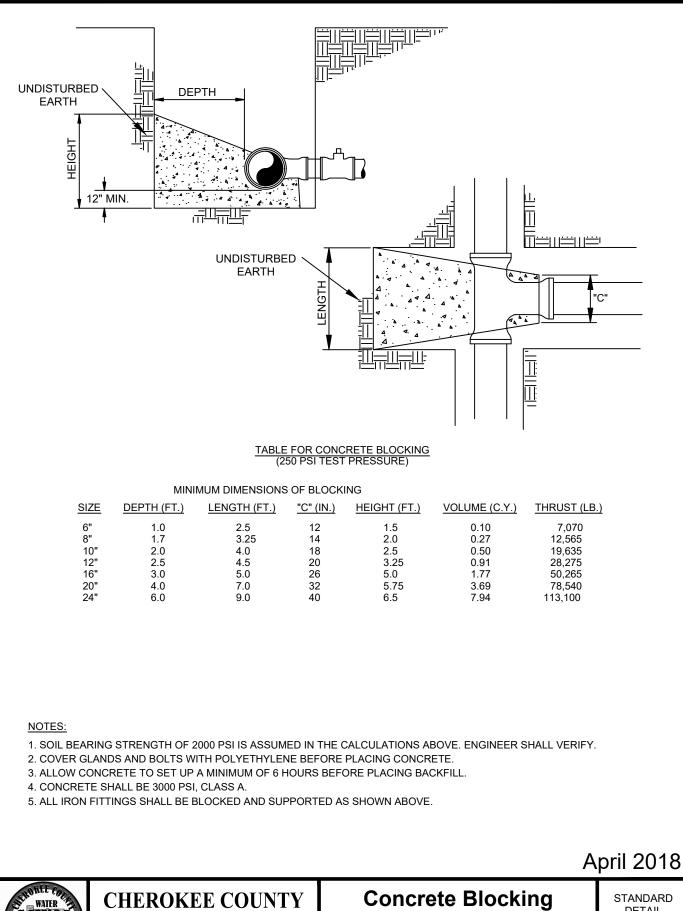


## CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

## Concrete Blocking For Bends

STANDARD DETAIL NO. W-10

CONSTRUCTION STANDARD



WATER & SEWERAGE

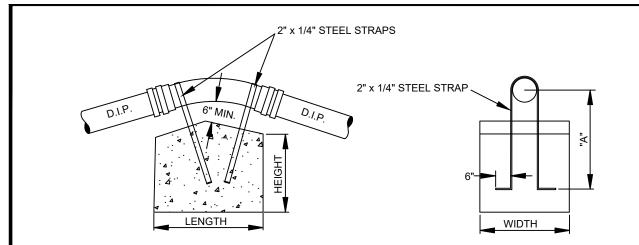
**AUTHORITY** 

4 SFWE

DETAIL NO. **W-11** 

CONSTRUCTION STANDARD

For Tee's & Plugs



#### TABLE FOR CONCRETE BLOCKING (250 PSI TEST PRESSURE)

		MINI	NUM DIMENSION	S OF BLOCKING	6		LENGTH OF
FITTING	SIZE	HEIGHT (FT.)	LENGTH (FT.)	WIDTH (FT.)	VOLUME (C.Y.)	<u>"A" (IN.)</u>	STRAP (IN.)
11 1/4° BEND	6"	2.0	2.0	2.5	0.37	24	69.5
11 1/4° BEND	8"	3.0	2.2	2.5	0.61	24	72.5
11 1/4° BEND	10"	3.0	3.0	3.0	1.00	26	80.0
11 1/4° BEND	12"	3.0	4.0	3.0	1.33	30	91.0
11 1/4° BEND	16"	3.0	5.0	4.5	2.50	30	97.0
11 1/4° BEND	20"	3.3	6.0	5.0	3.67	36	115.0
11 1/4° BEND	24"	4.0	6.5	5.5	5.30	36	122.0
22 1/2° BEND	6"	2.5	3.0	2.5	0.69	24	69.5
22 1/2° BEND	8"	3.1	3.5	3.0	1.21	24	72.5
22 1/2° BEND	10"	3.2	4.0	4.0	1.90	26	80.0
22 1/2° BEND	12"	3.5	5.0	4.5	2.92	30	91.0
22 1/2° BEND	16"	4.7	5.5	5.0	4.79	36	109.0
22 1/2° BEND	20"	6.0	6.0	5.7	7.60	45	133.0
22 1/2° BEND	24"	8.0	5.7	6.5	10.98	60	170.0

NOTES:

1. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.

2. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.

3. CONCRETE SHALL BE 3000 PSI, CLASS A.

4. ALL IRON FITTINGS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.

### CONCRETE BLOCKING-VERTICAL BENDS-UPWARD THRUST

April 2018



## CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY

## Concrete Blocking

CONSTRUCTION STANDARD

STANDARD DETAIL NO. W-12

**CHEROKEE COUNTY** WATER & SEWERAGE **AUTHORITY** 

## Concrete Blocking

STANDARD DETAIL NO. W-13

CONSTRUCTION STANDARD

April 2018

ZZ I/Z DLIND	10	1.0	2.0	3	2.0	0.10	7,005
22 1/2° BEND	12"	1.0	3.0	11	2.0	0.16	11,040
22 1/2° BEND	16"	2.0	3.5	12	3.0	0.45	19,625
22 1/2° BEND	20"	2.0	4.0	15	4.0	0.74	30,665
22 1/2° BEND	24"	3.0	5.0	18	4.5	1.47	44,160
45° BEND	6"	1.0	2.0	6	1.5	0.06	5,415
45° BEND	8"	1.0	2.5	7	2.0	0.10	9,625
45° BEND	10"	2.0	3.5	9	2.5	0.31	15,040
45° BEND	12"	2.0	3.5	11	3.0	0.41	21,655
45° BEND	16"	3.0	5.0	12	4.0	1.45	38,495
45° BEND	20"	4.0	6.0	15	5.0	2.05	60,145
45° BEND	24"	4.0	7.5	18	6.5	3.35	91,610
90° BEND	6"	1.0	2.5	12	2.0	0.13	10,005
90° BEND	8"	2.0	3.0	14	3.0	0.38	17,785
90° BEND	10"	2.5	4.5	18	3.0	0.74	27,785
90° BEND	12"	3.0	5.0	20	4.0	1.24	40,000
90° BEND	16"	4.0	6.5	26	5.5	2.91	71,125
90° BEND	20"	4.0	8.0	32	7.0	4.68	111,135
90° BEND	24"	5.0	10.0	40	8.0	8.50	160,035

#### NOTES:

Ohte Col

WATER

4 SFWER

FITTING

11 1/4° BEND

22 1/2° BEND 22 1/2° BEND

22 1/2° BEND

SIZE

6"

8"

10"

12"

16"

20"

24"

6"

8"

10"

DEPTH (FT.)

1.0

1.0

1.0

1.0

2.0

2.0

2.0

1.0

1.0

1.0

1. SOIL BEARING STRENGTH OF 2000 PSI IS ASSUMED IN THE CALCULATIONS ABOVE. ENGINEER SHALL VERIFY.

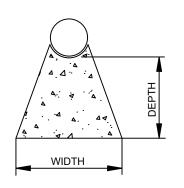
2. COVER GLANDS AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.

3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.

RE 2000 DOL CLASS A 4. C0

CONCRETE BLOCKING-VERTICAL BENDS-DOWNWARD THRUST
5. ALL IRON FITTINGS SHALL BE BLOCKED AND SUPPORTED AS SHOWN ABOVE.
4. CONCRETE SHALL BE 3000 PSI, CLASS A.

"C"  $\pi$ UNDISTURBED EARTH LENGTH



THRUST (LB.)

1,385

2,465

3,850

5,550

9,860

15,406

22,185

2,760

4,905

7,665

## TABLE FOR CONCRETE BLOCKING (250 PSI TEST PRESSURE)

"C" (IN.)

6

7

9

11

12

15

18

6 7

9

WIDTH (FT.)

1.0

1.0

1.0

1.5

2.1

2.5

3.0

1.0

1.5

2.0

VOLUME (C.Y.)

0.04

0.05

0.07

0.12

0.26

0.48

0.70

0.04

0.06

0.10

MINIMUM DIMENSIONS OF BLOCKING

LENGTH (FT.)

2.0

2.0

2.0

2.5

2.5

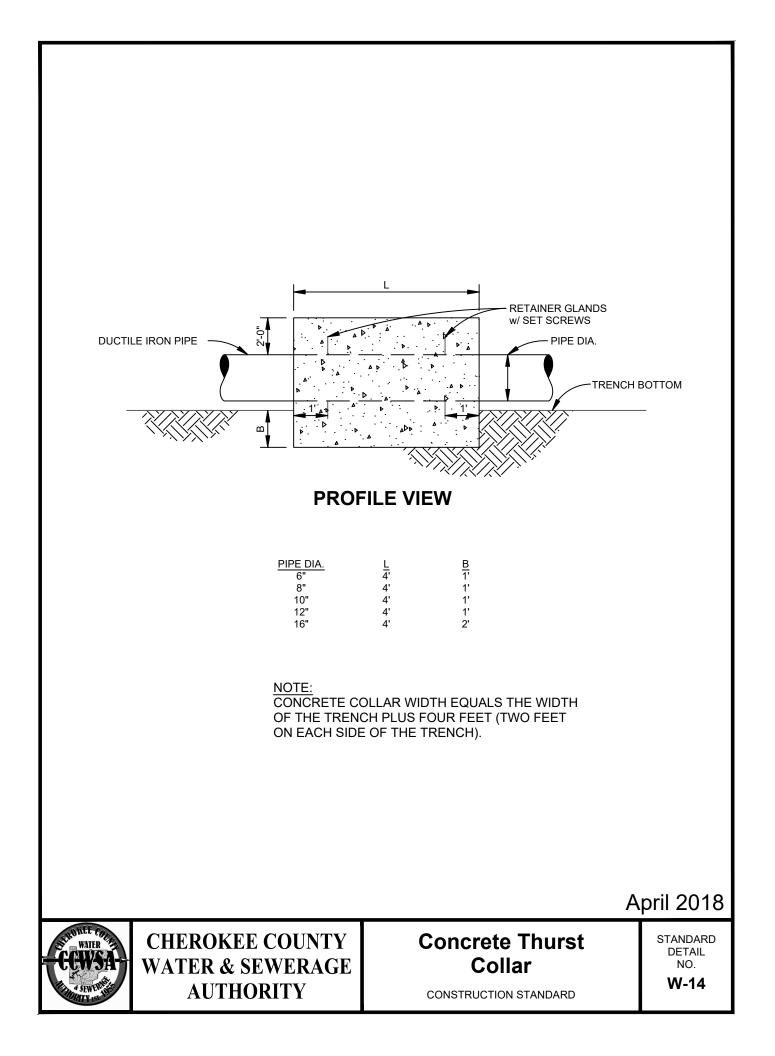
3.5

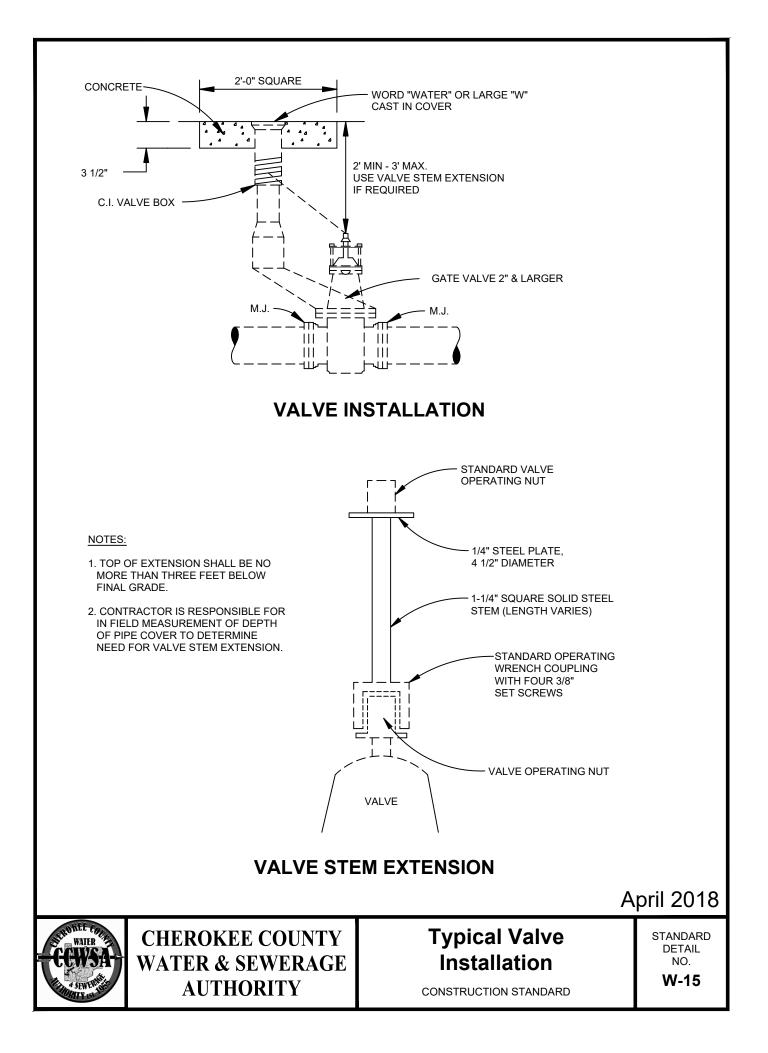
4.0

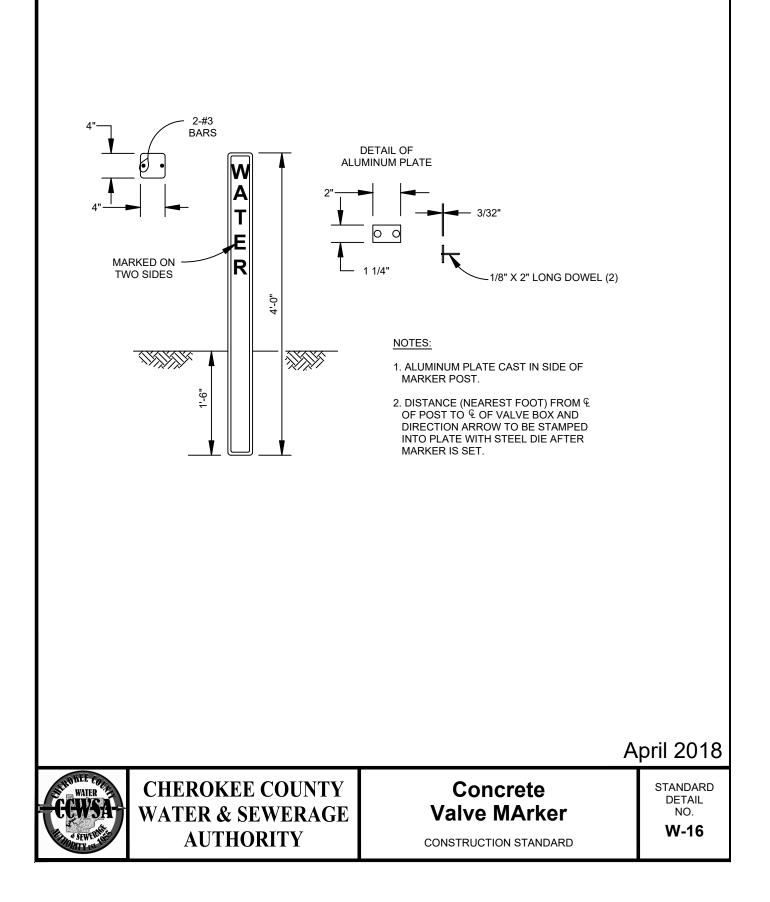
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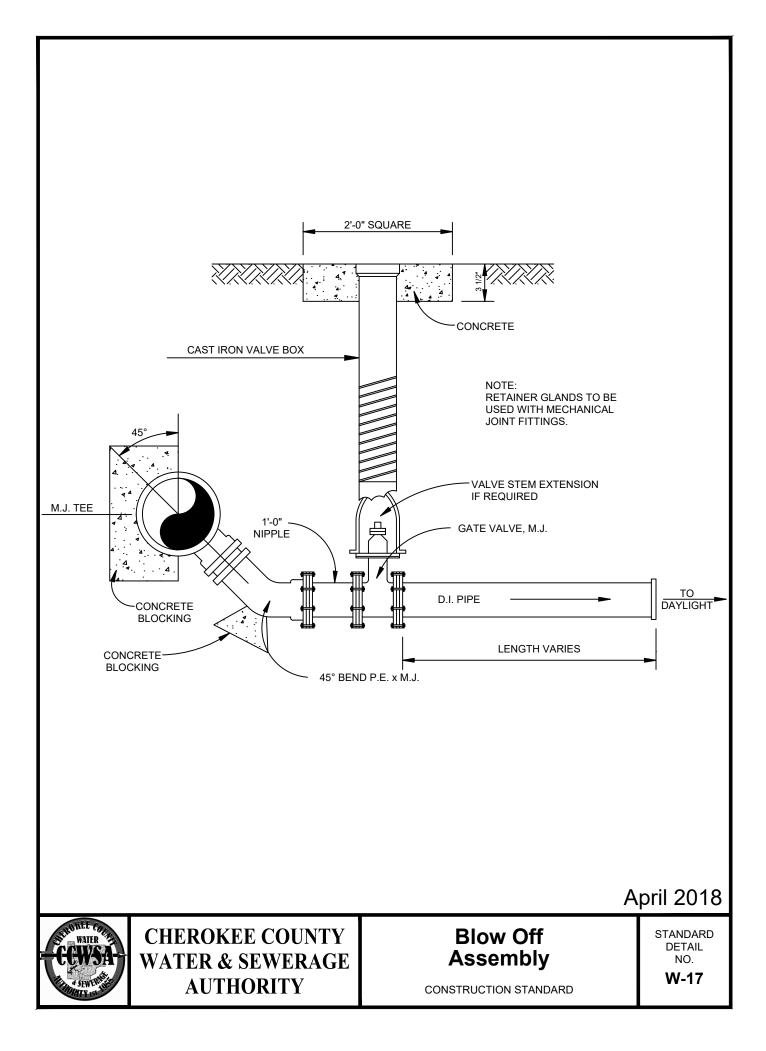
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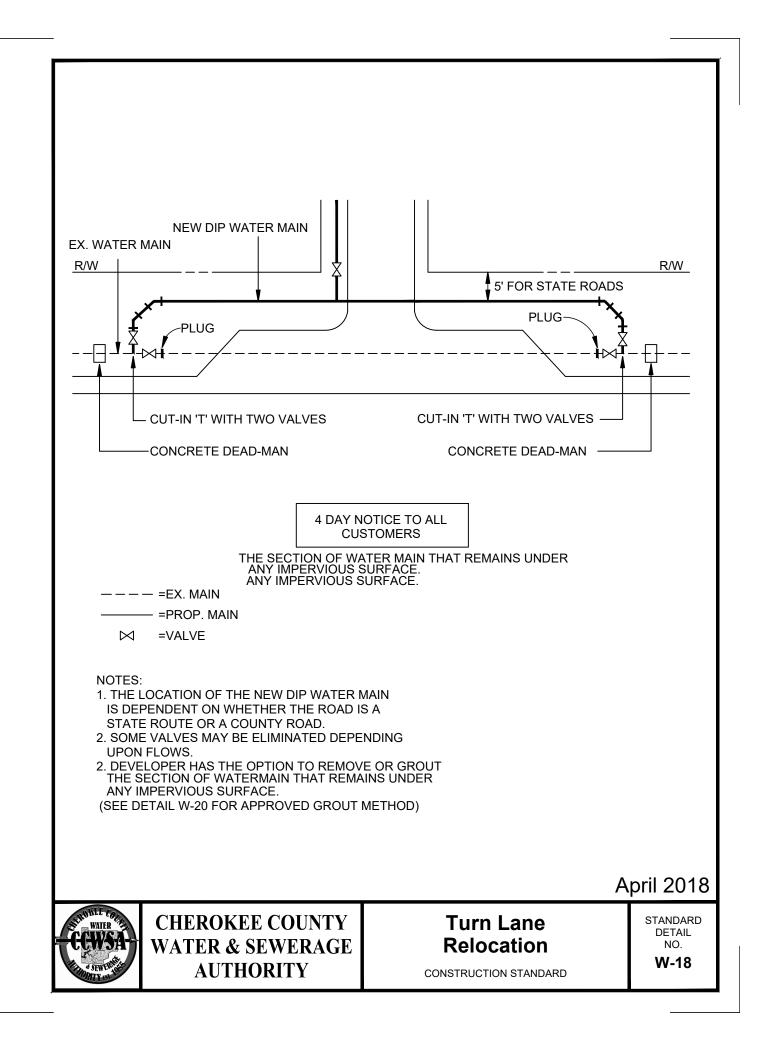
2.0

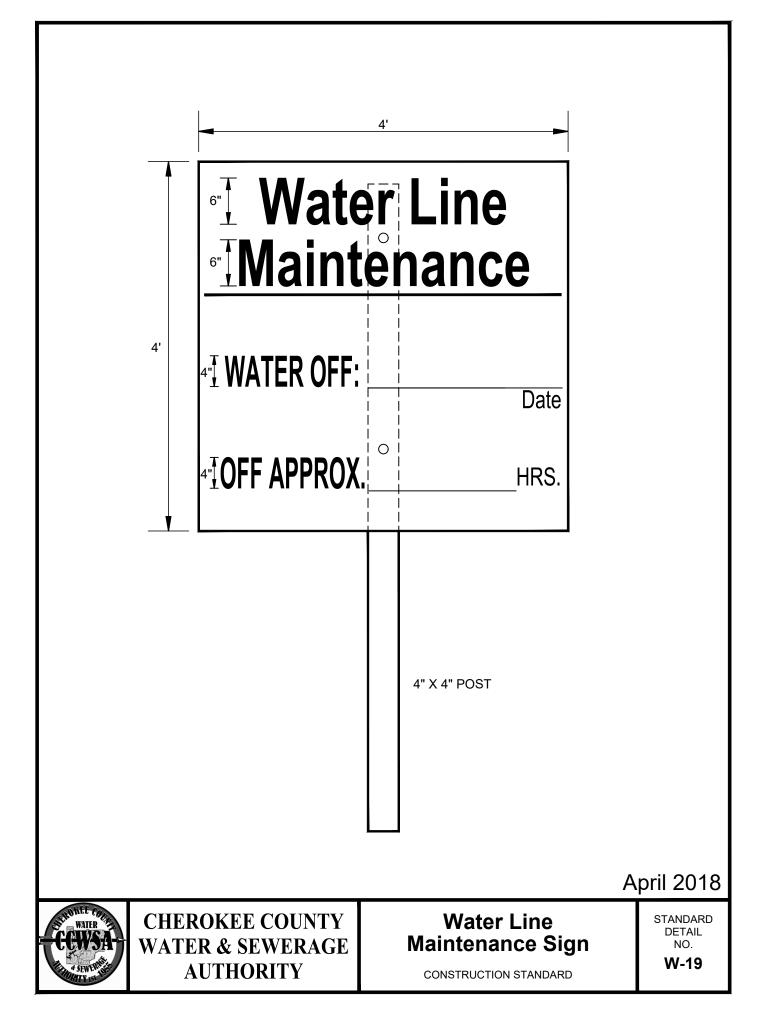


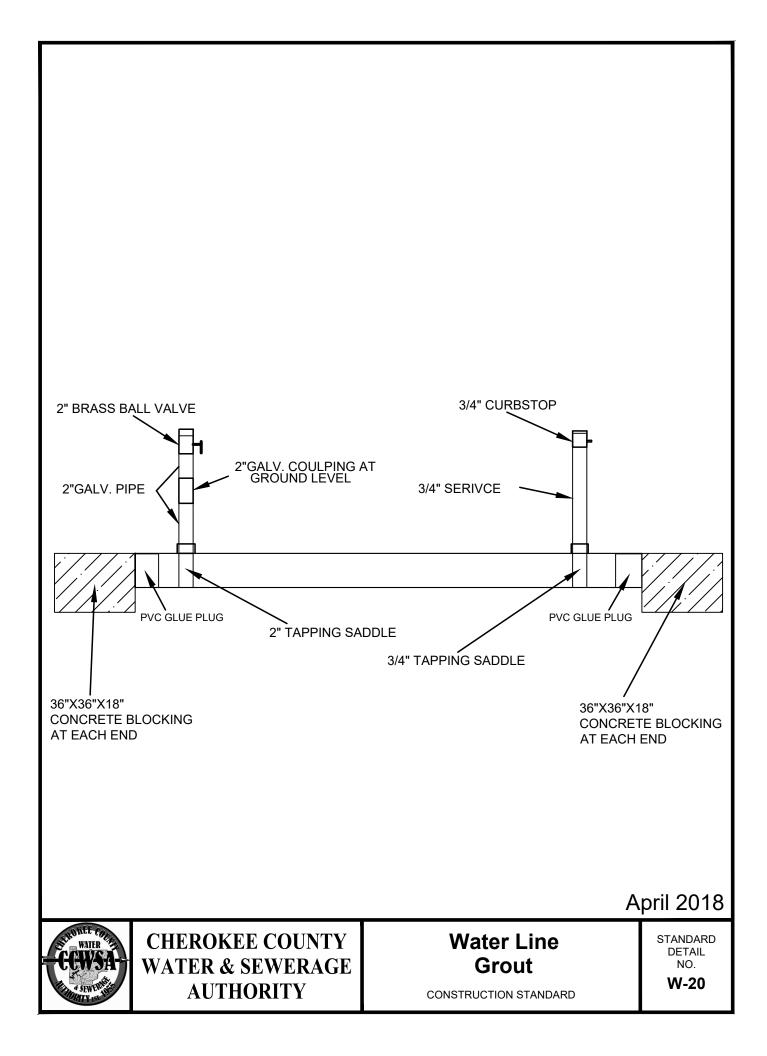


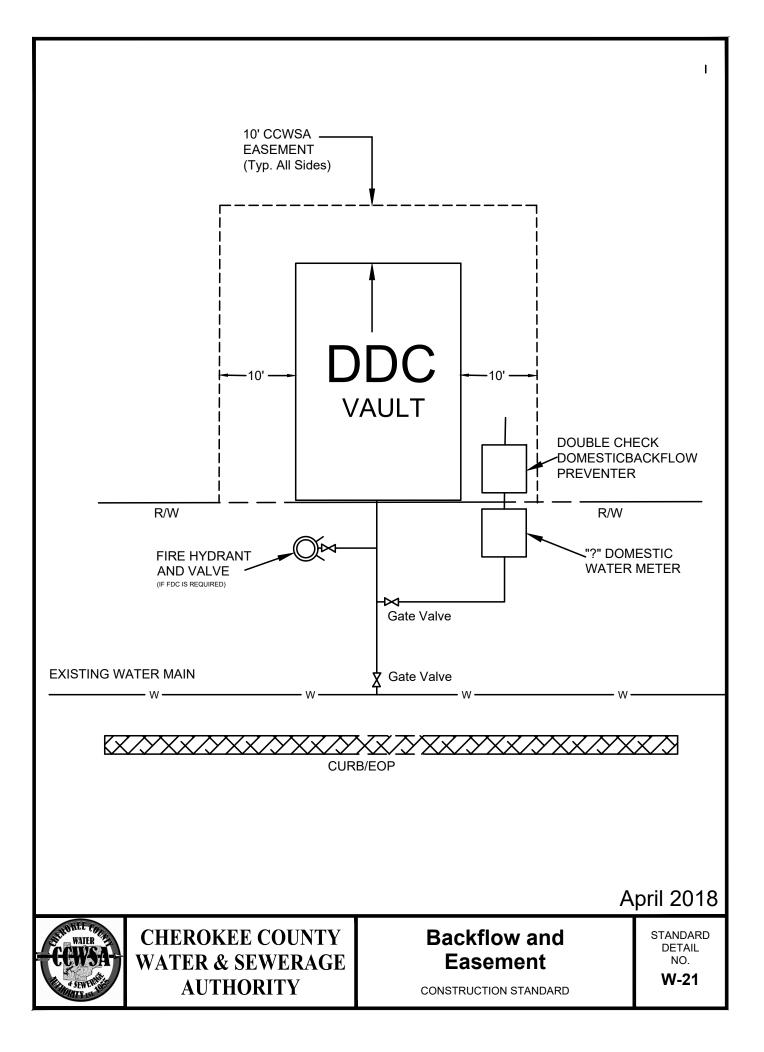












### CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY POTABLE WATER SYSTEM

### **GENERAL CONSTRUCTION NOTES**

- **1.)** All potable water system construction must follow the current Cherokee County Water & Sewerage Authority Water Main Standards.
- 2.) All water mains shall be ductile iron pipe, except where the Construction Manager approves otherwise. Ductile iron pipe shall be thickness Class 50 or Class 350, designed in accordance with AWWA C150 and manufactured in accordance with AWWA C151. All ductile iron pipe shall have an outside bituminous coating per AWWA C151 and an inside standard cement lining with bituminous seal coat per AWWA C104. All references to AWWA standards shall mean latest revisions published.
- **3.)** Inside of developments with curb and gutter, the Contractor shall cut a "V" into the top of the curb for all water valves (line valves and hydrant valves) with the point of the "V" aimed at the valve.
- 4.) A concrete valve marker is to be placed directly above the plug on all dead-end water mains.
- 5.) Information regarding underground utilities on these plans is not guaranteed as to accuracy or completeness. Prior to beginning work, the Contractor shall request a field location through the utilities protection center and any utility owners thought to have facilities in the area. The Contractor shall promptly compare these field-marked locations with the project plans and then notify the Designer of any anticipated problems or need for contract changes. It is the Contractor's responsibility to excavate or cause the utility owner to excavate for the purpose of determining exact elevations or locations at utility crossings and other critical locations well in advance of the work under this contract. Damage to existing utilities resulting from the Contractor's negligence shall be repaired at the Contractor's expense.
- 6.) All service lines under pavement shall be encased in Schedule 40 PVC casing with a minimum diameter of 2", extending a minimum of 3 feet beyond the pavement and/or sidewalk on each side of the road. 2" services shall be encased in 4" PVC casings. All water service laterals 2" and smaller shall be Type K copper tubing with compression fittings as specified in the Water Standards.
- **7.)** Concrete thrust blocking shall be placed at all bends, tees, valves, reducers and all other fittings. Prior to blocking, fittings shall be wrapped with polyethylene film.
- **8.)** The Developer/Contractor shall meet with the Chief Inspector at least 24 hours before beginning construction. The Contractor shall notify the Chief Inspector or his designated representative by 8:30 AM of each workday when work is scheduled unless authorized otherwise.
- **9.)** Water mains shall be installed so that the top of the pipe is a minimum of four feet below final grade, four feet below the edge of the pavement, or four feet below the ditch paralleling the road, whichever is deepest.
- **10.)** Contractor shall place a vertical piece of 2" PVC pipe on top of the water main at all tees, bends, fittings, elevation transitions, and every fifty feet along the length of the main for the purpose of collecting elevation data for record drawings. The top of the 2" PVC shall be capped or taped to prevent dirt and other debris from clogging the 2" pipe before the depth can be measured.
- **11.)** All fittings and valves are to be mechanical joint with retainer glands unless otherwise approved. Retainer glands shall be EBAA Mega-Lug or approved equal.
- **12.)** Type 4 bedding is required at all restrained pipe installations.

- **13.)** Contractor must show proof of insurance in the amount specified by the CCWSA.
- **14.)** All backflow preventer devices are to be tested by a CCWSA approved tester. A list of testers is available from the CCWSA. Any tester not on the list is subject to approval by the CCWSA. Contact the Backflow Coordinator with the CCWSA for more information.
- **15.)** All meters, backflow preventers and double detector check valve assemblies are to be purchased from the CCWSA.
- **16.)** A horizontal separation of at least 10 feet is required between existing or proposed water mains and existing or proposed sanitary sewer lines.
- **17.)** A vertical separation of at least 18 inches is required where a water main crosses an existing or proposed sanitary sewer line. A full joint of water main is required to be centered at the sanitary sewer line crossing.
- **18.)** No portion of this project is being constructed on or near an existing landfill, abandoned landfill, or any other site used for waste disposal.
- **19.)** Potable water and sanitary sewer structures are not allowed within a dam. Utility pipelines and structures must be a minimum of 30 feet outside the toe of slope of the dam.
- 20.) Hydrant flow tests are valid for one year and only apply to a single phase of this project.
- **21.)** Existing County roads shall not be open cut unless permission is granted by the Cherokee County Department of Public Transportation.
- **22.)** Plan approval is valid for 12 months without beginning construction. Plans shall be subject to beginning the process of review and approval if 12 months expire prior to the start of construction.
- **23.)** As-Built drawings of water and sanitary sewer facilities are required to be submitted to the CCWSA upon completion of the project.
- 24.) If construction plans are stamped for a full project, and then the Developer revises the plans to build the development in phases, no construction or field inspection will be allowed to begin until the revised, phased plans are re-approved and stamped for the phased construction.
- **25.)** If an existing water main is to be paved over by a new entrance or accel/decel lanes, the water main is to be abandoned and replaced with a new DIP water main located five feet or more behind the new back of curb.
- **26.)** New water mains installed within 80 feet of steel gas main crossings, or in any wetland areas must be encased in polyethylene tubing (Polywrap 8 mil).
- 27.) All streams and protective buffers shall be crossed in accordance with current County and State regulations.
- **28.)** Fire hydrants shall be designed to be placed within 200 feet of new entrances, in all cul-de-sacs, and at every proposed intersection.
- **29.)** New fire hydrants shall be Mueller Super Centurion 250, M&H AWWA C502 Style 129 Traffic Model. or EJ Watermaster 5CD 250. All hydrants shall be rated for 250 psi working pressure and shall be equipped with a 5¼" valve opening, two 2½" hose nozzles and one 4½" pumper nozzle.
- **30.)** Inside of steel casings, pipe joints shall be restrained using Fast-Grip gaskets or approved equal.

- **31.)** All new water mains must pass leakage testing and disinfection testing witnessed by a CCWSA representative before a project is released and accepted.
- **32.)** All water meter vaults and DDCV assembly vaults are to be located off of the road right-of-way in a permanent easement dedicated to the CCWSA. The easement shall be dimensioned to be 10 feet off each corner of the vault. Smaller domestic use meters adjacent to a DDCV assembly can be located within the 10-foot spacing between the vault and the edge of the easement.
- **33.)** The report stating the results of the hydrant flow test and the 24 hour pressure recording chart shall be shown within the plans for this project.
- **34.)** Horizontal locations will be referenced to Georgia State Plane Coordinate System (NAD 83 West Zone Feet.
- 35.) Vertical locations will be referenced to North American Vertical Datum (NAVD 88).
- 36.) Orthometric locations will be referenced to GEOID 99/03
- **37.)** No landscaping or structures will be allowed inside CCWSA easements.
- **38.)** Contractor shall provide meter stubs.
- **39.)** Must show all street lights within development
- **40.)** Must show 911 addresses for each lot or parcel
- **41.)** Developers are required to comply with CCWSA specifications in section W314 with respect to irrigation of large landscapes.

### Street Light Ordinance

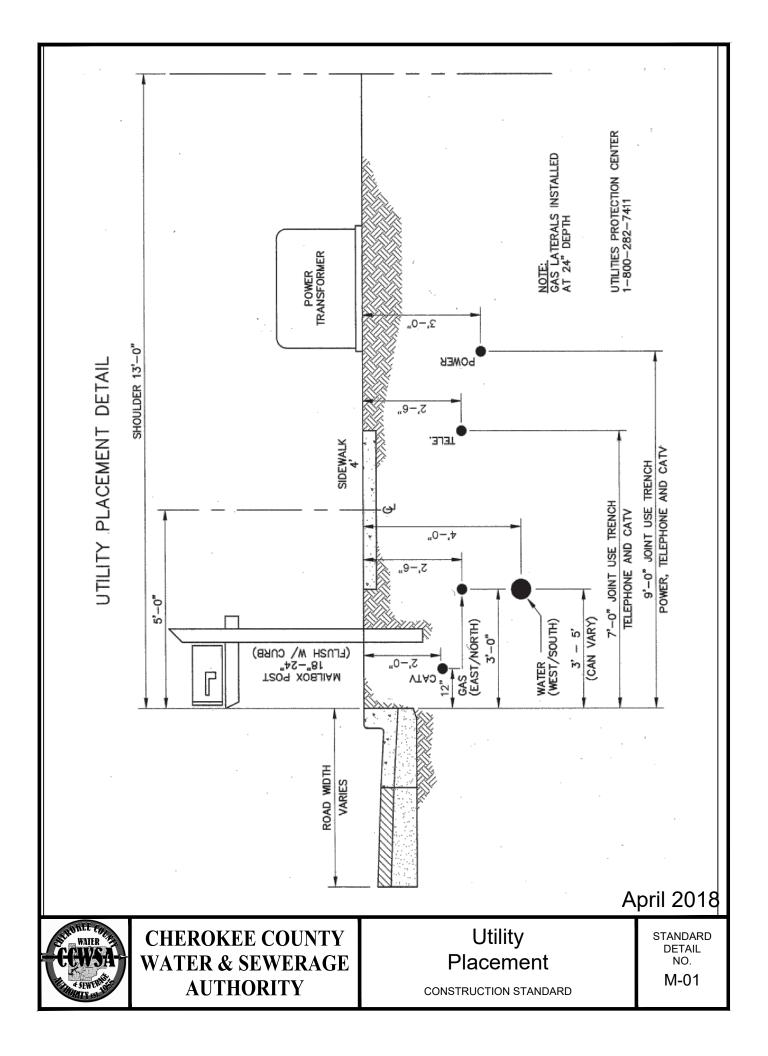
Pole Specifications:

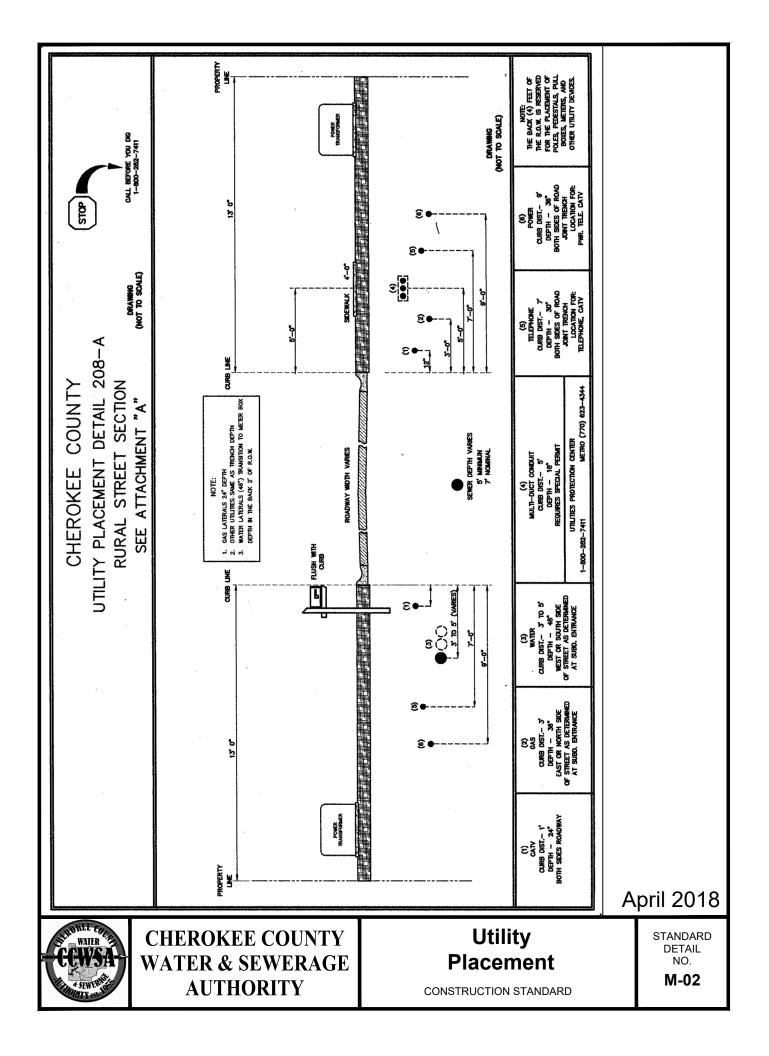
- 30 Foot Poles Only
- Wood or Fiberglass Only
- Arms must be 2 1/2' to 6' long
  - Roadway Fixtures

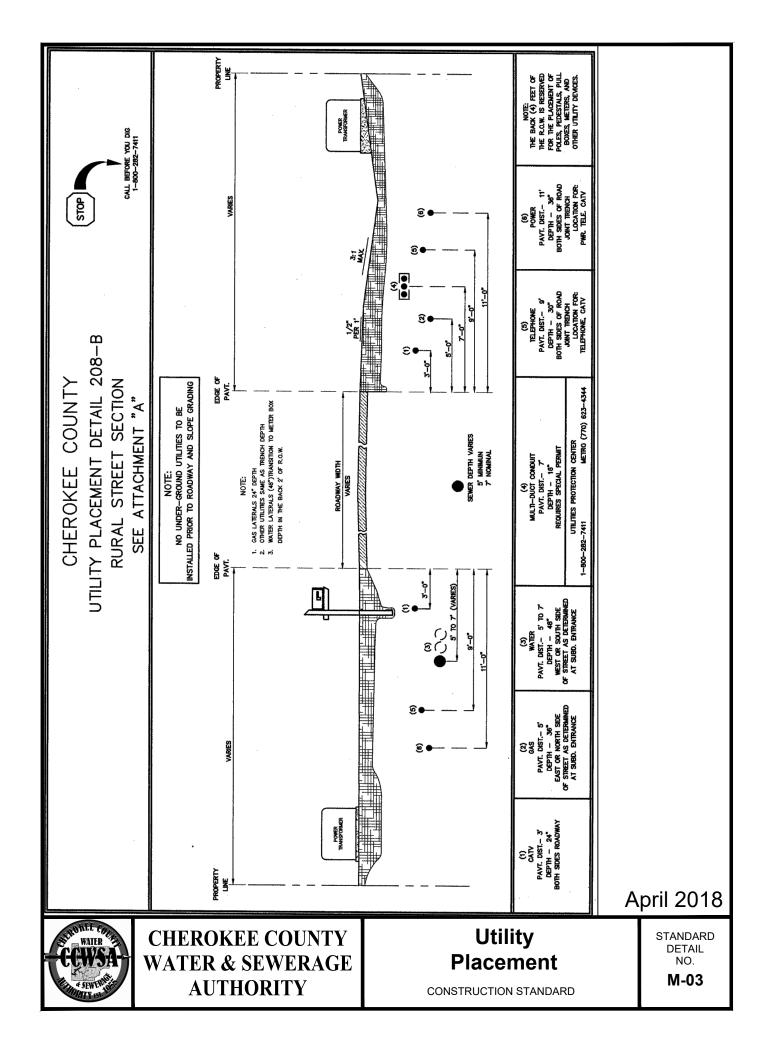
Street light plans are submitted by the Power Companies to the Street Light Coordinator. All power pole contributions must be paid by the Developer **<u>before</u>** the release of water meter sales.

The above does not apply to subdivisions that are located inside city limits.

Any further questions please call: Street Light Coordinator at (770) 479-9107









## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 04/12/2018

C B R	HIS CERTIFICATE IS ISSUED AS A M ERTIFICATE DOES NOT AFFIRMATIV ELOW. THIS CERTIFICATE OF INSU REPRESENTATIVE OR PRODUCER, AN	/EL` JRA D TI	Y OR NCE HE CI	NEGATIVELY AMEND, DOES NOT CONSTITU ERTIFICATE HOLDER.	EXTEI TE A C	ND OR ALTE CONTRACT E	ER THE CO BETWEEN T	VERAGE AFFORDED BY THE THE ISSUING INSURER(S), AU	POLICIES
tl	MPORTANT: If the certificate holder is the terms and conditions of the policy, ertificate holder in lieu of such endors	cert	ain p	olicies may require an e	policy( ndorse	(ies) must be ment. A stat	endorsed. ement on th	If SUBROGATION IS WAIVED, is certificate does not confer r	subject to ights to the
	DUCER			-	CONTA	CT Agent/Bro	oker Represe	entative Name	
Ins	urance Agent/Broker Name				PHONE (A/C, No	Agent/E	Broker Phone	e Number FAX (A/C, No): Agent	Broker Fax
Ins	urance Agent/Broker Street Address or P	.O. I	Box		E-MAIL	Agont Dr	oker Email A		
Ins	urance Agent/Broker City, State & Zip Co	de					URER(S) AFFOF	RDING COVERAGE	NAIC #
Co	ntact & Phone Number				INSURE	RA: Name of	Insurance C	Company	Enter NAIC
INSU	JRED							Company (if applicable)	Enter NAIC
	Vendor/Contractor Name				INSURE	Rc: Name of	Insurance C	Company (if applicable)	Enter NAIC
	Vendor/Contractor Street Add	ress	or P.	O. Box				Company (if applicable)	Enter NAIC
	Vendor/Contractor City, State	& Zi	р Сос	de	INSURE	RE: Name of	Insurance C	Company (if applicable)	Enter NAIC
					INSURE	RF: Name of	Insurance C	Company (if applicable)	Enter NAIC
CO	VERAGES CERT	<b>FIFIC</b>	CATE	NUMBER:				REVISION NUMBER:	
	HIS IS TO CERTIFY THAT THE POLICIES NDICATED. NOTWITHSTANDING ANY REI ERTIFICATE MAY BE ISSUED OR MAY F XCLUSIONS AND CONDITIONS OF SUCH F	QUIF PERT POLIC	REMEI AIN, CIES	NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF AN	Y CONTRACT THE POLICIES REDUCED BY F	OR OTHER	DOCUMENT WITH RESPECT TO Y D HEREIN IS SUBJECT TO ALL T	WHICH THIS
INSR LTR	TYPE OF INSURANCE		SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	X COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE \$ 1,00	00,000
	CLAIMS-MADE X OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100	
	X Contractual							MED EXP (Any one person) \$ 5,00	
A	XCU-Explosion, Undrgrnd Collap	Y	N	Enter Policy #		Eff. Date	Exp. Date	PERSONAL & ADV INJURY \$ 1,00	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE \$ 2,00	
	POLICY X PRO- JECT LOC							PRODUCTS - COMP/OP AGG \$ 2,00	
	OTHER:							Fire Damage-Any Fire \$ 50,0	
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT \$ 1,00	00,000
								BODILY INJURY (Per person) \$	
A	ALL OWNED AUTOS	Y	N	Enter Policy #		Eff. Date	Exp. Date	BODILY INJURY (Per accident) \$ PROPERTY DAMAGE	
	HIRED AUTOS X NON-OWNED AUTOS							(Per accident)	
								\$	0.000
		V	N	Enter Deliev #		Eff Data	Eve Data		00,000
A	X         EXCESS LIAB         CLAIMS-MADE           DED         X         RETENTION \$ 10,000	Y	N	Enter Policy #		Eff. Date	Exp. Date	AGGILEGATE	0,000
$\vdash$	DED X RETENTION \$ 10,000							PER     OTH-       STATUTE     ER	
	AND EMPLOYERS' LIABILITY Y / N							4.00	0.000
A	OT TOET WILLINDER CEODED :	N/A	N	Enter Policy #		Eff. Date	Exp. Date	E.L. EACH ACCIDENT \$ 1,00 E.L. DISEASE - EA EMPLOYEE \$ 1,00	
	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT \$ 1,00	0,000
-								E.L. DISEASE - POLICI LIMIT \$ 1,00	
	OTHER POLICIES			Enter Policy #		Eff. Date	Exp. Date		
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHICL	ES (A	CORD	101, Additional Remarks Schedu	ile, may b	e attached if more	e space is requir	ed)	
Th	erokee County Water And Sewerage Aut is/These certificate(s) of insurance confor ert Contract, Customer Account, and/or F	m(s)	to al	I terms and conditions (inc			e indemnity a	agreement) contained in Contract	w/CCWSA.
	RTIFICATE HOLDER				CANC	CELLATION			
	Cherokee County Water And P.O. Box 5000	Sew	erage	e Authority Attn: Risk Dpt.	SHC	OULD ANY OF 1	DATE TH	ESCRIBED POLICIES BE CANCELL EREOF, NOTICE WILL BE DEI CY PROVISIONS.	
	140 West Main Street Canton, GA 30114				Endo	RIZED REPRESEN rsement/Signa policies shall b	ature	Certificate holder shall be addition	nal insured.
AC	ORD 25 (2014/01)	т	he A	CORD name and logo a	re regi			ORD CORPORATION. All righ	nts reserved.

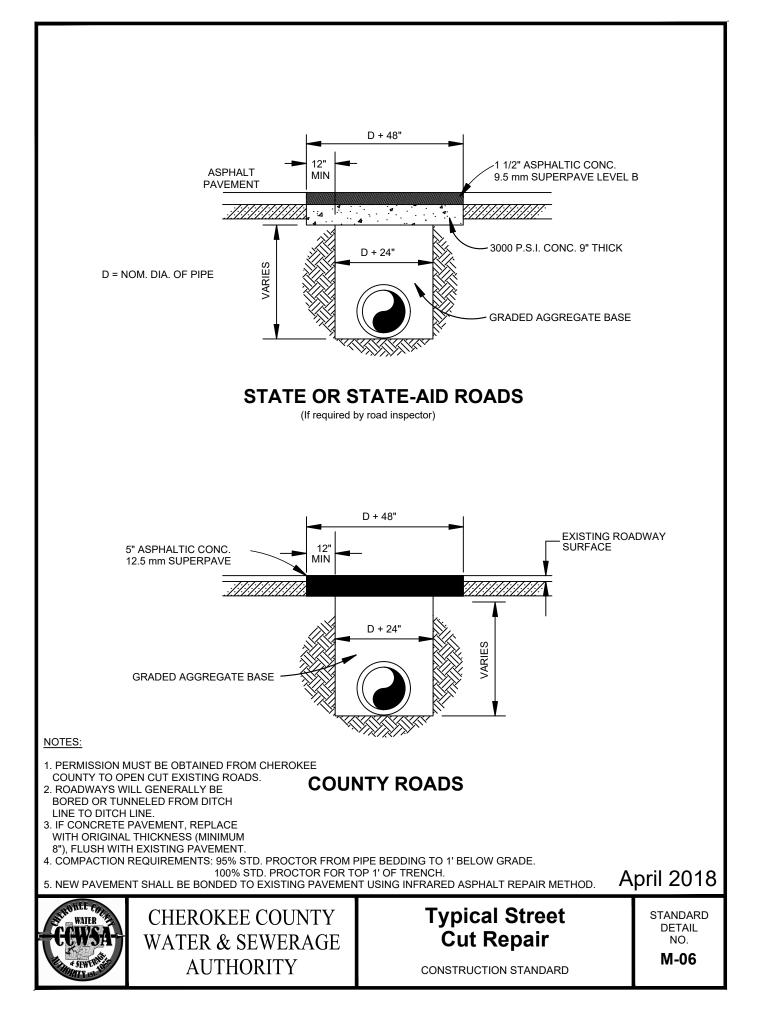
	R CODES
	LOCATING
RED	ELECTRIC
YELLOW	GAS-OIL
ORANGE	TELEPHONE/CATV
BLUE	WATER
GREEN	SEWER
IF YOU D	IG GEORGIA
CALL	US FIRST !
1-800	)-282-7411
	The Law !
Utilities Prote	ction Center, Inc.

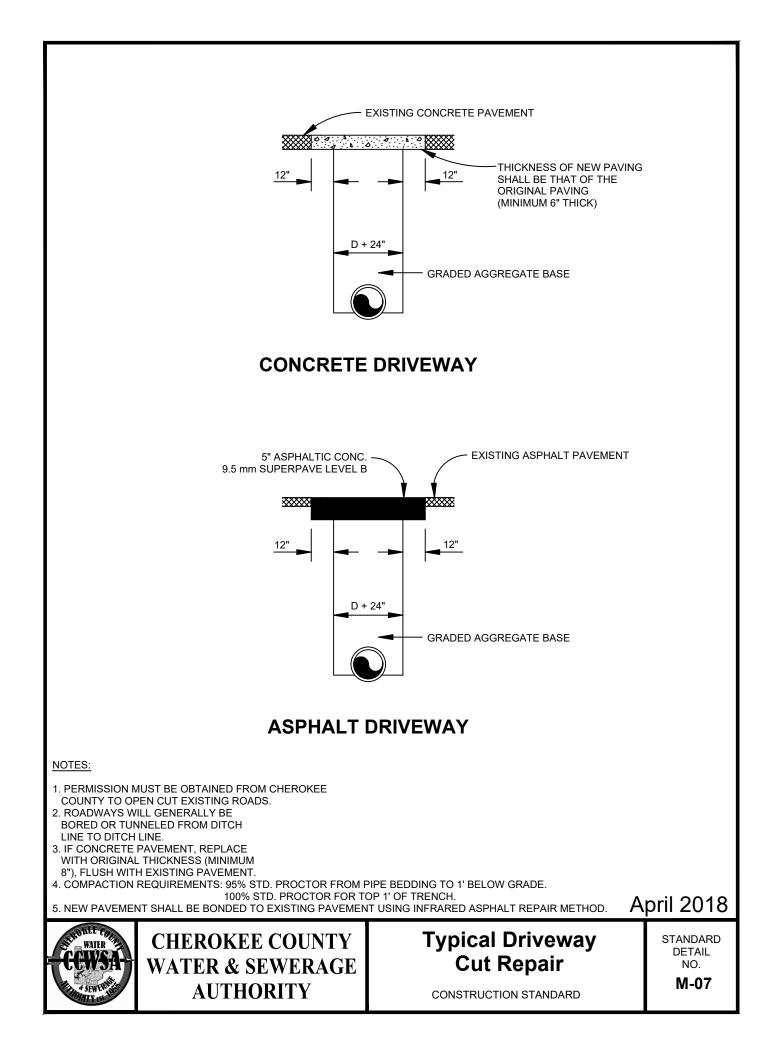
THREE WORKING DAYS BEFORE YOU DIG GEORGIA CALL

# Utilities Protection Center, Inc.



1-800-282-7411 It's The Law !





Return to: Cherokee County Water & Sewerage Authority P.O. Box 5000 Canton, Georgia 30114 Attn: Jeffery Hooper

#### State of Georgia County of Cherokee

#### **Grant of Utility Easement**

This	grant	of	easement	made	this	 _ day	of			,	20,	from
	-					 			of the	State	of Georgia	i, and
-						 		 				

County aforesaid, hereinafter called Grantor, to **CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY**, a Political Subdivision of the State of Georgia, herein called the Grantee.

WITNESSETH, the Grantor for and in consideration of the sum of \$1.00 and other valuable considerations in hand paid, at and before the sealing and delivery of these presents, does grant, bargain, sell, and convey unto Grantee an easement and perpetual right-of-way over, upon, through, under and/or across the property of the Grantor in Land Lot(s) \_\_\_\_\_\_, of

District, 2<sup>nd</sup> Section, Cherokee County, Georgia, and being a strip of land more particularly described and shown on the plat attached hereto as Exhibit "A" and entitled (Subdivision Name, Phase, Unit and/or Pod,

Lot Number \_\_\_\_\_) made a part hereof showing the dimensions and location of this easement. The permanent, exclusive easement covered by this instrument is \_\_\_\_\_\_ feet wide, with the permission to use an additional \_\_\_\_\_\_feet wide during construction, unless otherwise shown on Exhibit "A", the center of said permanent, exclusive easement shall be the center line of the utility pipeline hereinafter installed over, upon, unless otherwise shown on Exhibit "A", through, under and/or across said lands. The easement begins and ends where the said pipeline enters and leaves the property line as indicated above, and totals approximately feet in length.

The permanent, exclusive easement covered by this instrument is for the purpose of a water line/main, sewer line/main and/or utility installation together with the right to go upon said land to install said utility pipeline and installations with the continuous right from time to time to go in and upon said right of way and to construct, install, operate, maintain, inspect, reconstruct, repair, renew, and replace therein the utility pipeline and other installations as may be necessary; also the right to clear, keep clear, remove and dispose of all undergrowth, trees and other obstructions, objects and structures on said right of way, which are inconsistent with the rights of the Grantee and which may interfere with or endanger the construction, operation and maintenance of said water line/main and other installations; also the right of ingress and egress to and from said right of way over roads, if any, existing at the time for such ingress and egress, for the purpose of constructing, operating, maintaining, repairing, renewing, replacing said utility pipeline and installations. Said right of way easement may be used by the owners of said land, or their assigns, provided such use is not inconsistent with the rights sought to be and further that such use does not interfere with, injure or endanger said utility pipeline and other installations and the construction, repairing, renewal and replacement thereof and the uses for the purposes hereinbefore stated.

Grantor for both itself and its heirs and assigns understands and agrees in connection with this conveyance that any and all construction, digging, grubbing, clearing, filling, or other earth moving or construction activities within or in the easement area conveyed herein are prohibited without the express written permission from the Cherokee County Water & Sewerage Authority.

The Grantor does hereby covenant that they are lawfully seized and possessed of the real estate above described, that Grantor does have good and lawful right to convey the said property, and said property is free from all encumbrances, and that they will forever warrant and defend title thereto against the claims of all persons whomsoever.

IN WITNESS WHEREOF, said GRANTOR hereunder set his hand and affixed his seal on the date written above.

WITNESS		<u>GRANTOR(S)</u>
Witness (Printed Name)		Grantor (Printed Name)
Witness (Signature)		Grantor (Signature)
		Grantor (Printed Name)
		Grantor (Signature)
Sworn to and subscribed before me		
This the day of	, 20	
	(SEAL)	

Notary Public

Return to: Cherokee County Water & Sewerage Authority P.O. Box 5000 Canton, Georgia 30114 Attn: Jeffery Hooper

State of Georgia County of Cherokee

WITNESS

Notary Public

#### Grant of Easement Utility Meter Vault

TI	nis	grant	of	easem	ent	made	this	day		of		,	20,	from
		-									of the	e State	of Georgia	i, and
County af	ores	said, h	ereir	nafter ca	lled	Granto	r, to	CHEROKEE COUNT	TΥ	WATER	& SEWERAGE	AUTHO	<b>DRITY</b> , a P	olitical
Subdivisio	n o	f the S	tate	of Geor	gia,	herein d	called	the Grantee.						

WITNESSETH, that Grantor for and in consideration of the sum of \$1.00 and other valuable considerations in hand paid, at and before the sealing and delivery of these presents, does grant, bargain, sell, and convey unto Grantee an easement and perpetual right-of-way over, upon, through, under and/or across the property of the Grantor in Land Lot(s) \_\_\_\_\_\_, of \_\_\_\_\_\_ District, 2<sup>nd</sup> Section, Cherokee County, Georgia, and being a strip of land more particularly described and shown

on the plat attached hereto as Exhibit "A" and entitled (Subdivision Name, Phase, Unit and/or Pod,

Lot Number \_\_\_\_\_) made a part hereof showing the dimensions and location of this easement.

The actual utility meter vault easement area may differ from the description shown on Exhibit "A". The actual meter easement shall be a \_\_\_\_\_\_ foot wide by \_\_\_\_\_\_ foot long square area surrounding the meter as actually installed, the meter being the center of said area.

The permanent, exclusive utility meter easement conveyed herein by Grantor is for the purpose of a utility meter vault and includes the rights to enter upon Grantor's property to install the utility meter vault to be situated within the said easement, and to inspect, maintain, replace, or repair the same, as may from time to time be necessary, or whenever Grantee deems fit, with all rights, members and appurtenances to said easement and right-of-way in anywise appertaining or belonging thereto.

Grantor for both itself and its heirs and assigns understands and agrees in connection with this conveyance that any and all construction, digging, grubbing, clearing, filling, or other earth moving or construction activities within or in the easement area conveyed herein are prohibited without the express written permission from the Cherokee County Water & Sewerage Authority.

The Grantor does hereby covenant that they are lawfully seized and possessed of the real estate above described, that Grantor does have good and lawful right to convey the said property, and said property is free from all encumbrances, and that they will forever warrant and defend title thereto against the claims of all persons whomsoever.

GRANTOR(S)

IN WITNESS WHEREOF, said GRANTOR hereunder set his hand and affixed his seal on the date written above.

Witness (Printed Name)	Grantor (Printed Name)
Witness (Signature)	Grantor (Signature)
	Grantor (Printed Name)
	Grantor (Signature)
Sworn to and subscribed before me	
This the day of, 20,	
(SEAL)	

## Cherokee County Water & Sewerage Authority

P.O. Box 5000 Canton, Georgia 30114 Phone: (770) 479-1813

### New Project Requirements & Maintenance Bond Notification (2018)

This is a list of some of the requirements that need to be met before obtaining water and/or sewer service in Cherokee County.

- A pre-construction meeting with water and/or sewer contractor and C.C.W.S.A inspector before work begins. (770) 479-9107
- Contractor must have approved plans stamped by C.C.W.S.A before water or sewer work begins.
- There are certain fees, depending on type of project, which must be paid to C.C.W.S.A. before getting service. Some of which are:

### Plan Review Fees: Water \$600.00 Sewer \$850.00 Lift Station \$10,000.00 Easement Fee \$200.00 (required per parcel for all offsite easements) Water Flow Test \$400.00

(Fees must be paid before flow test can be ordered or plan review meeting scheduled)

### (FEES ARE SUBJECT TO CHANGE)

Water Meter Deposit - If meter is larger than 2" meter must have a by-pass. Contact: Special Projects Coordinator (770) 479-1813 All fees paid before tapping.

Sewer Tap Fee - Contact: Special Projects Coordinator (770) 479-1813 All fees paid before tapping.

Back-Flow Device - When testable device is required we also must have test results by approved tester before setting of meter. Contact: Back-Flow Coordinator (770) 479-9107

As-Builts - Four (4) sets of As-Built Plans & Electronic Data (On State Plane Coordinates) must be submitted to G.I.S. Department for all projects. Contact: Plan Review Coordinator (770) 479-1813

Maintenance Bond Notification - The owner/developer of this project understands there shall be a maintenance bond or letter of credit posted for this project. The bond shall be for a period of twelve (12) months from the date of acceptance by the Cherokee County Water & Sewerage Authority. The "As-Builts" will "NOT" be signed and released, nor will a Clean Out Inspection or a Clean Out approval be issued until maintenance bond or letter of credit has been posted.

All sanitary sewer manholes in streets shall be required to be @ 95% compaction under the first foot of top grade. Compaction tests shall be at all 4' lifts on 2 sides of each manhole within a 2' diameter of the manhole. Test results shall be faxed to C.C.W.S.A. Inspection Department (770) 704-0053 or emailed to the Inspector before any G.A.B. shall be placed on sub-grade.

- Any and all final tests on water and sewer, and all fees paid, before final plat can be signed or release of meters.
- Maintenance Bonds must be posted.
- Once job is released, owner/developer will be responsible for one-year warranty period.
- Project will not be released for meter sales until C.C.W.S.A. G.I.S. Department receives-one copy of recorded final plat along with a PDF file.
- At end of one year a re-inspection will be done.
- If water has to be cut off, work needs to be scheduled 4 to 5 days ahead of time. Phone: (770) 479-9107
- CANNOT ENCROACH ON ANY BUFFERS, OWNER/DEVELOPER & ENGINEER WILL BE RESPONSIBLE FOR OBTAING VARIANCES.(Must have in writing where variance was obtained)

Signature Date

### Cherokee County Water & Sewerage Authority Final Plat Notes:

- 1.) Cherokee County Water & Sewerage Authority shall maintain the sewer mains and sewer laterals to the County, City or State Right-of-Way or to the edge of an easement dedicated to CCWSA. If sewer main is located within a private ingress-egress or a blanket utility easement, Cherokee County Water & Sewerage Authority shall maintain sewer mains and laterals from back of curb to back of curb. In the event of zero building setback adjacent to a Right-of-Way, CCWSA will maintain sewer mains and laterals from back of curb to back of curb.
- **2.)** Clean out shall not be located outside of the Right-of-Way or easement. No structure can be within 5' (five feet) of any sewer clean out. Including, but not limited to any type of building, porches, foundations, stairs, signs, fences, retaining wall, or other types of wall, etc..

### 3.) Street Light Ordinance

Pole Specifications:

- 30 Foot Poles Only
- Wood or Fiberglass Only
- Arms must be 2 <sup>1</sup>/<sub>2</sub>' to 6' long
- Roadway Fixtures

Street light plans are submitted by the Power Companies to the Street Light Coordinator. All power pole Contributions must be paid by the Developer **<u>before</u>** the release of water meter sales. The above does not apply to subdivision that are located inside the city limits. CERTIFICATE OF CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY "PURSUANT" TO ALL REQUIREMENTS OF THE CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY HAVING BEEN FULFILLED, THIS FINAL PLAT IS APPROVED FOR RECORDING.

Cherokee County Water & Sewerage Authority

Date

1         1520           2         1520           3         1520           4         1520           5         1520           6         1520           7         1519           8         1520           9         1520	rthing 0566.19 0237.99 0111.98 0094.83 0099.67 0099.37 0989.36	Easting 2179707.88 2179603.81 2179601.85 2179503.51 2179362.96 2179222.41 2179220.79	<b>Rim Elev</b> 914.60 916.50 915.82 919.39 929.52 938.39	Description           BM-9           BM-9A           BM5-10           BM5-10-1           BM5-10-2           BM5-10-3	Invert Out 897.10 898.58 907.95 911.52 921.65	Size 10" 10" 8" 8" 8"	Type DIP DIP PVC PVC	Invert In "A" 897.30 898.58 908.15 911.72	<b>Size</b> 8"	Type	Invert In "B" 908.15
2 1520 3 1520 4 1520 5 1520 6 1520 7 1519 8 1520 9 1520	237.99 111.98 094.83 099.67 099.37 989.36	2179603.81 2179601.85 2179503.51 2179362.96 2179222.41	916.50 915.82 919.39 929.52 938.39	BM-9A BM5-10 BM5-10-1 BM5-10-2	898.58 907.95 911.52 921.65	10" 8" 8"	DIP PVC PVC	898.58 908.15	8"	PVC	908.15
3         1520           4         1520           5         1520           6         1520           7         1519           8         1520           9         1520	0111.98 0094.83 0099.67 0099.37 0989.36	2179601.85 2179503.51 2179362.96 2179222.41	915.82 919.39 929.52 938.39	BM5-10 BM5-10-1 BM5-10-2	907.95 911.52 921.65	8" 8"	PVC PVC	908.15	8"	PVC	908.15
4         15200           5         15200           6         15200           7         15199           8         15200           9         15200	094.83 099.67 099.37 989.36	2179503.51 2179362.96 2179222.41	919.39 929.52 938.39	BM5-10-1 BM5-10-2	911.52 921.65	8"	PVC		8"	PVC	908.15
5 1520 6 1520 7 1519 8 1520 9 1520	0999.67 0999.37 9989.36	2179362.96 2179222.41	929.52 938.39	BM5-10-2	921.65	ð	_	911.72			
6 1520 7 1519 8 1520 9 1520	099.37 989.36	2179222.41	938.39			8"					
7 1519 8 1520 9 1520	989.36	-		BM5_10_3		0	SDR26	921.85			
8 1520 9 1520		2179220 79		DIVID-10-3	924.79	8"	SDR26	930.72	8"	PVC	924.99
9 1520		2110220.10	933.21	BM5-10-3-1	925.54	8"	PVC				
0 .020	102.42	2179100.26	947.71	BM5-10-4	939.84	8"	PVC	940.04			
10 1510	106.95	2178878.35	965.21	BM5-10-5	954.25	8"	PVC				
10 1513	705.34	2179208.63	920.89	BM5-12A	912.61	8"	PVC	912.61	8"	PVC	912.61
11 1519	737.17	2179152.99	931.55	BM5-12A-1	916.88	8"	PVC	923.88			
12 1519	736.59	2179044.42	934.53	BM5-12A-2	926.66	8"	PVC	926.86			
13 1519	780.05	2178946.31	941.09	BM5-12A-3	933.22	8"	PVC	933.42			
14 1519	865.20	2178755.30	959.90	BM5-12A-4	952.23	8"	PVC				
15 1519	989.36	2179220.79	933.21	CO-1	925.54	6"	PVC				
16 1520	106.95	2178878.35	965.21	CO-2	954.25	6"	PVC				
Description Ass	signed B	By CCWSA									

			Sewer F	orce Main	Points			
				Example				
Point #	Northing	Easting	Ground Elevation	Top of Pipe	Description	Invert Out	Size	Туре
1	1520566.19	2179707.88	914.60	910.60	Force Main	897.10	4"	DIP
2	1520237.99	2179603.81	916.50	912.50	Force Main	898.58	4"	DIP
3	1520111.98	2179601.85	915.82	911.82	Force Main	907.95	4"	PVC
4	1520094.83	2179503.51	919.39	915.39	Force Main	911.52	4"	HDPE
5	1520099.67	2179362.96	929.52	925.52	Force Main	921.65	4"	PVC
Ascii files	s to be submit	ted electronic	ally. (On Dis	k)				
*Point file	s to be submi	tted electronic	ally in "Exce	l" format. (CD	)			

Example								
Point #	Northing	Easting	Ground Elevation	Top of pipe	Description			
1	1400014 14	2200022 54	000 700	000.45	FH Valve			
1	1486214.11	2208022.51	993.782	990.45				
2	1486212.03	2208022.49	994.238	990.91	Fire Hydrant			
	1486205.20	2208339.26	983.7	980.37	8"x8"x6" FH Tee			
<u>4</u> 5	1486203.56	2208538.41	974.78	971.45	8"x8"x8" Tee			
	1486069.28	2208674.33	969.04	965.71	90 Deg Bend			
6	1486597.13				8"x8"x8" Tee			
7	1486590.98				45 Deg Bend			
8	1486615.58		992.78	989.45	8"x8"x8" Tee			
9	1486692.03		962.48	959.15	22.5 Deg Bend			
10	1486226.59		973.41	970.08	8"x8"x8" Tee			
11	1486493.64		993.189	989.86	90 Geg Bend			
12	1486428.37	2207978.29	984.196	980.87	FH Valve			
13	1486426.32	2207978.55	984.248	980.92	8" DIP			
14	1486473.22	2207844.45	991.996	988.67	8" DIP			
15	1486069.28	2208674.33	969.04	965.71	8" PVC			
16	1486445.55	2208076.94	984.622	981.29	3/4" Water Meter			
17	1486502.35		978.006	974.68	1" Water Meter			
18	1486575.49		973.398	970.07	2" Water Meter			
19	1486593.15	2208272.97	964.822	961.49	8" Gate Valve			
20	1486473.22		991.996	988.67	NE Vault Corner			
21	1486431.75	2207918.55	990.141	986.81	SE Vault Corner			
22	1486427.22	2207946.25	989.534	986.20	SW Vault Corner			
23	1486428.37	2207978.29	984.196	980.87	NW Vault Corner			

	Street Light Points Example								
Point #	Northing	Easting	Ground Elevation	Address	Туре	Arm Length			
1	1486035.93	2208586.45	970.77	128 Maple Street	Wood	2.5'			
2	1486069.28	2208674.33	969.04	129 Maple Street	Wood	2.5'			
3	1486692.03	2208401.58	962.48	134 Maple Street	Wood	6'			
4	1486703.85	2208469.55	962.02	135 Maple Street	Wood	6'			
5	1486428.37	2207978.29	984.196	141 Maple Street	Fiberglass	2.5'			
6	1486426.32	2207978.55	984.248	142 Maple Street	Fiberglass	2.5'			
7	1486481.79	2207920.84	989.138	143 Maple Street	Fiberglass	6'			
8	1486503.71	2207886.23	991.298	144 Maple Street	Fiberglass	6'			
Point files	s to be submit	ted electronica	ally in "Excel"	format. (CD)					

911 Addresses							
Example							
Lot Number	Street Number	Street Name	Subdivision Phase/Section/Pod/Unit				
	400						
1	123	Maple Street	Maple Grove Phase 1, Unit 2 etc				
2	124	Maple Street	Maple Grove Phase 1, Unit 2 etc				
3	125	Maple Street	Maple Grove Phase 1, Unit 2 etc				
4	126	Maple Street	Maple Grove Phase 1, Unit 2 etc				
5	127	Maple Street	Maple Grove Phase 1, Unit 2 etc				
*Point files	to be subn	nitted electronically	y in "Excel" format. (CD)				