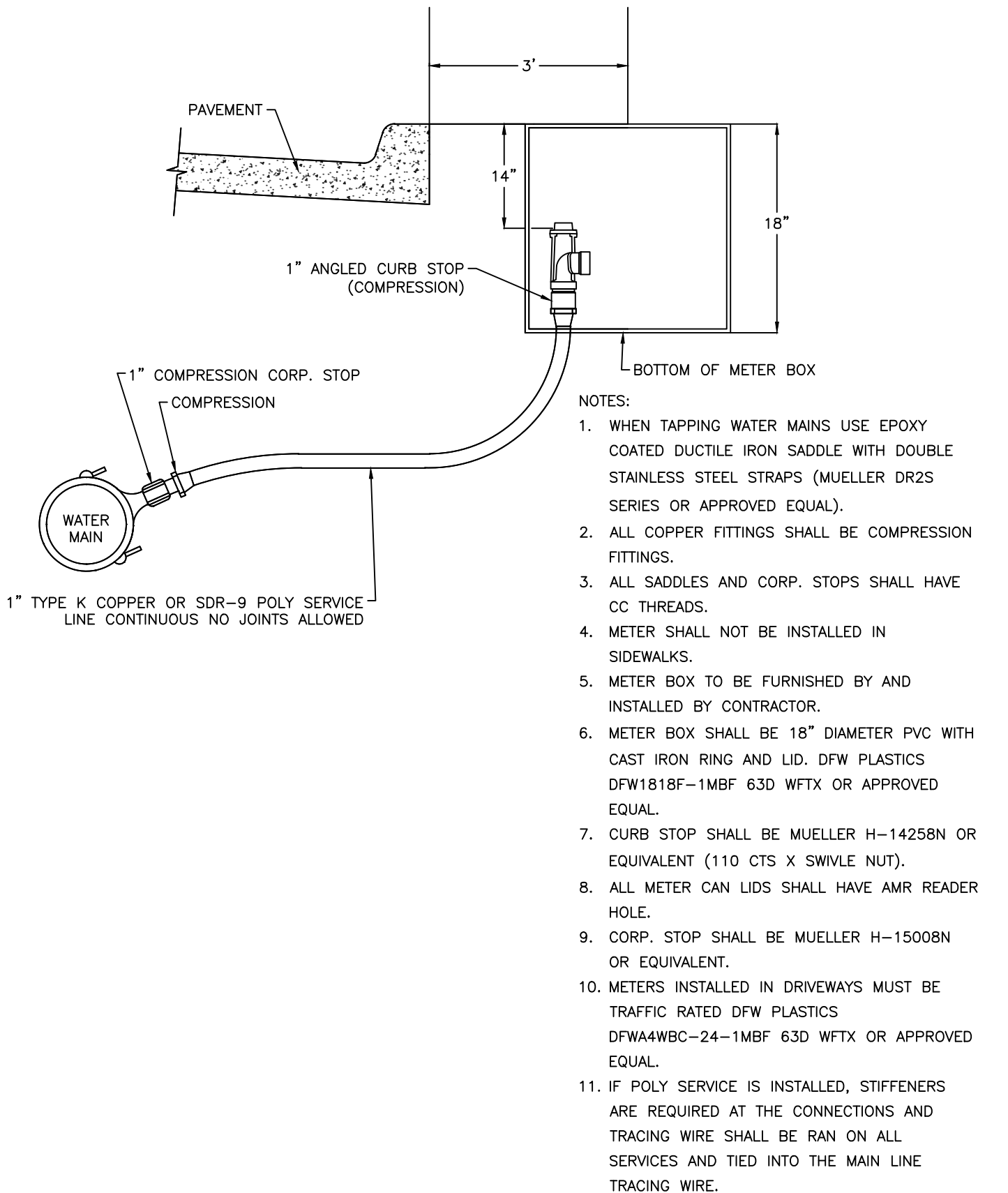
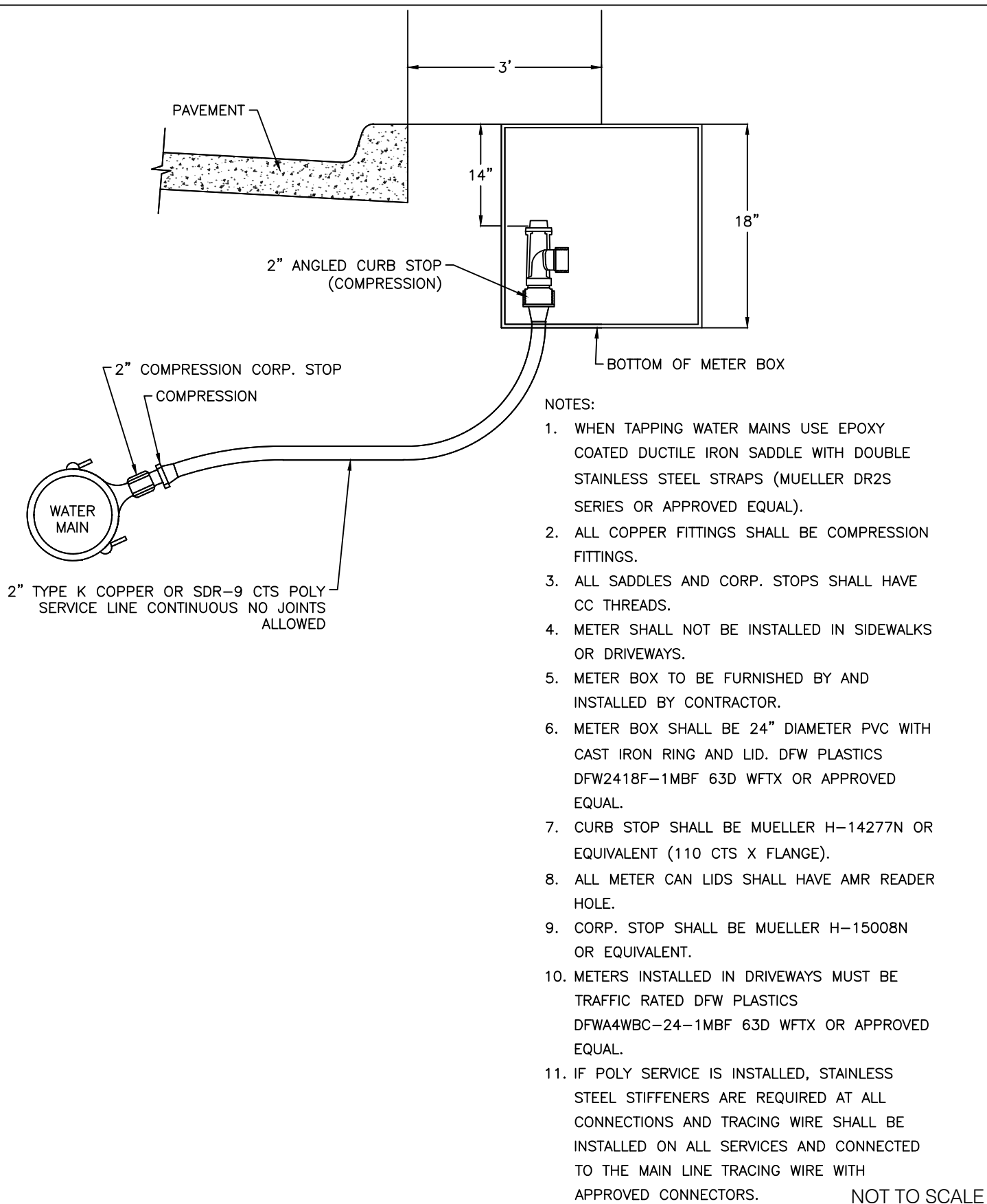


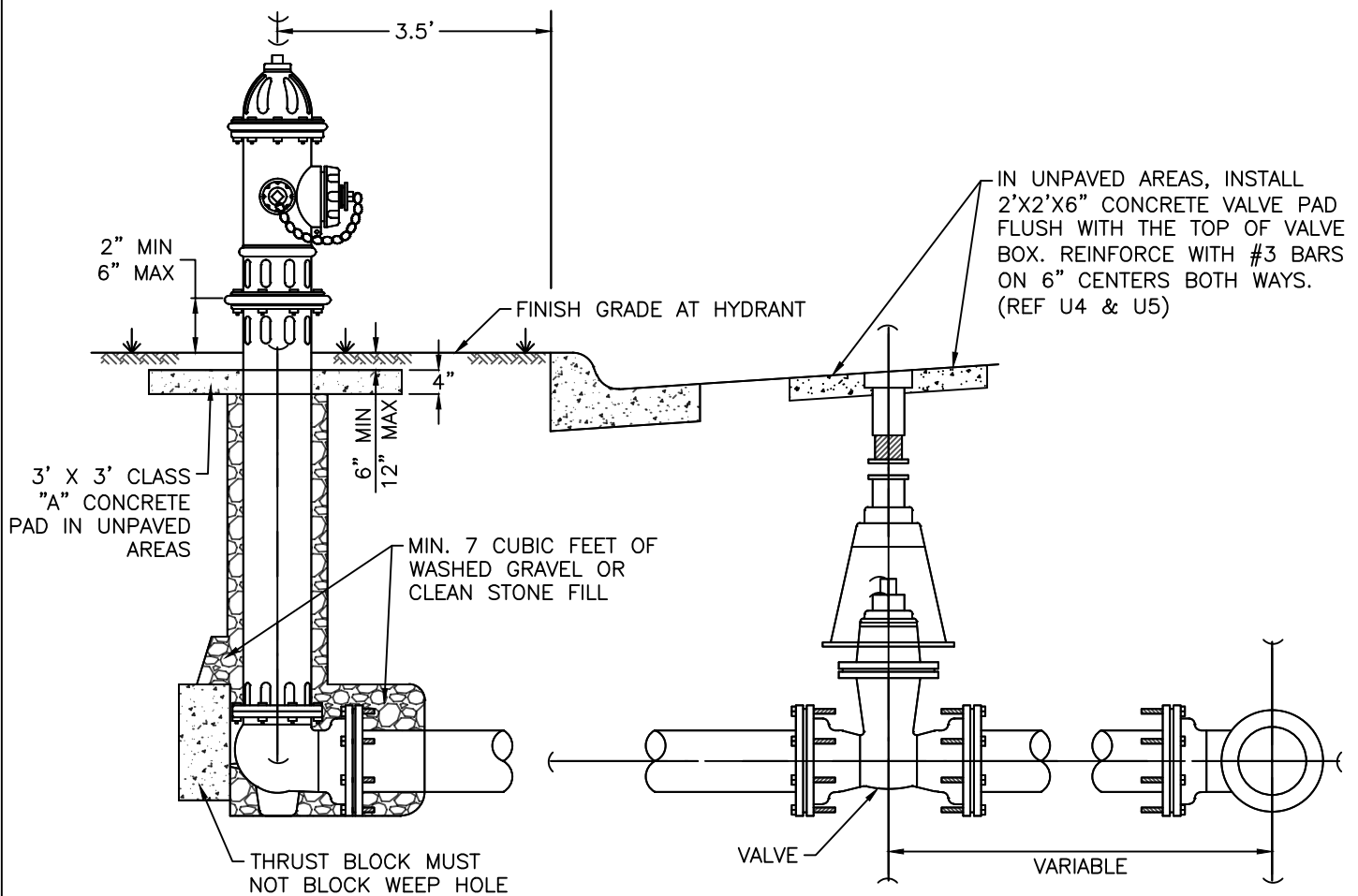


NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	06/2024		
	DRAWN BY		
	CITY OF WEATHERFORD	1 INCH SERVICE DETAIL	W1

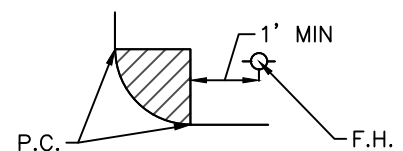


	DATE	UTILITY DEPARTMENT	SHEET. #
	06/2024		
	DRAWN BY	2 INCH SERVICE DETAIL	
	CITY OF WEATHERFORD		
		W2	



NOTES:

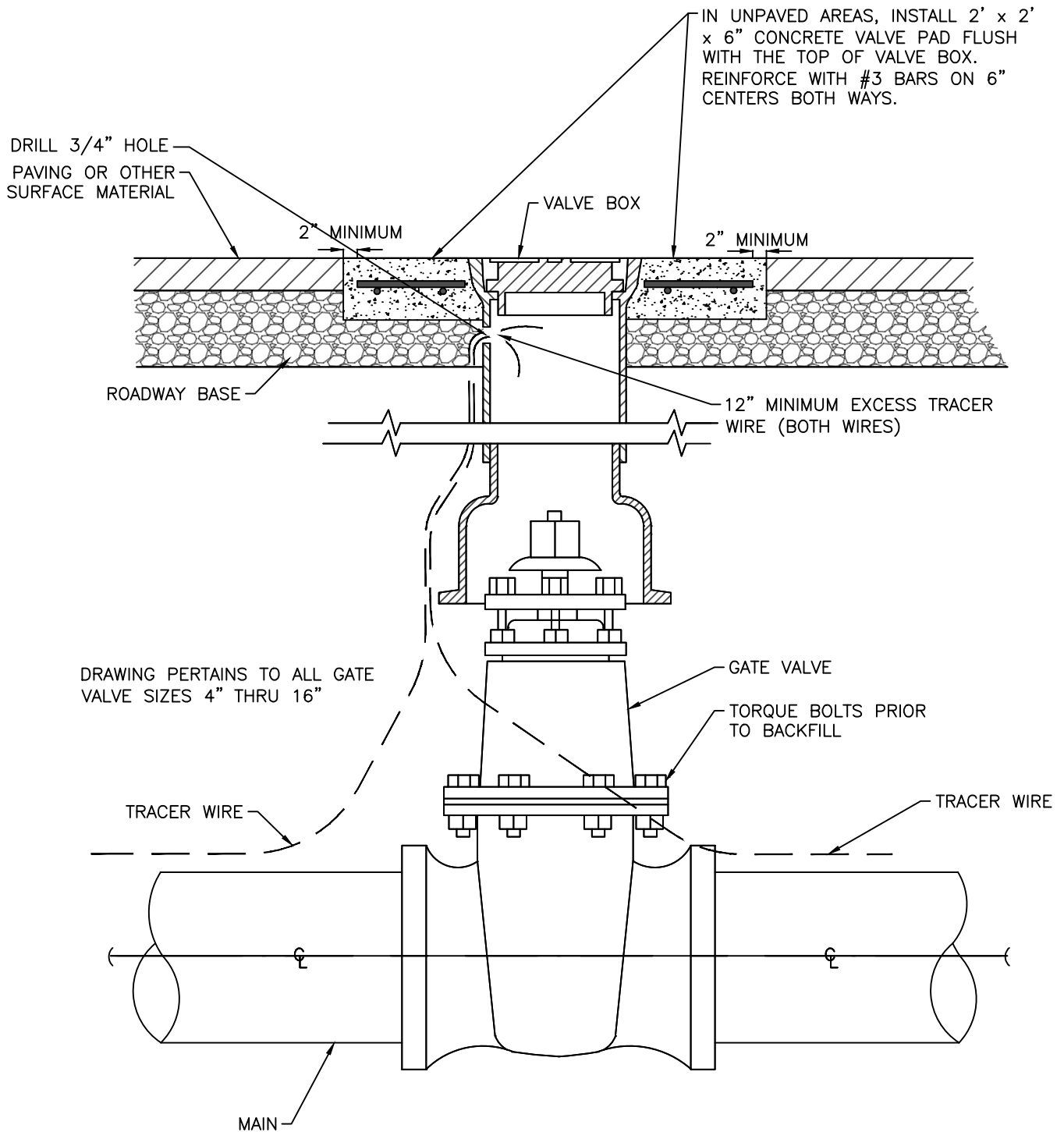
1. IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, C-502. FIRE HYDRANTS SHALL HAVE A 5 1/4 " MIN. VALVE OPENING AND A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE.
2. ALL JOINTS SHALL BE RESTRAINED MECHANICAL JOINTS.
3. ACTUAL VALVE LOCATION WILL DEPEND ON LOCATION OF WATER MAIN.
4. STANDARD BURY DEPTH 5' FEET.
5. LOCATE HYDRANTS NEAR CORNERS OF LOTS.
6. F.H. SHALL BE LOCATED MINIMUM 1 FT. OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADII AT INTERSECTIONS. (SEE PLAN VIEW).
7. FIRE HYDRANT SHALL BE MUELLER CENTURION, M&H MODEL 129, OR CLOW MEDALLION.
8. FIELD PAINT WITH SHERWIN WILLIAMS INTERNATIONAL RED - F75RC7.



PLAN VIEW
N.T.S.

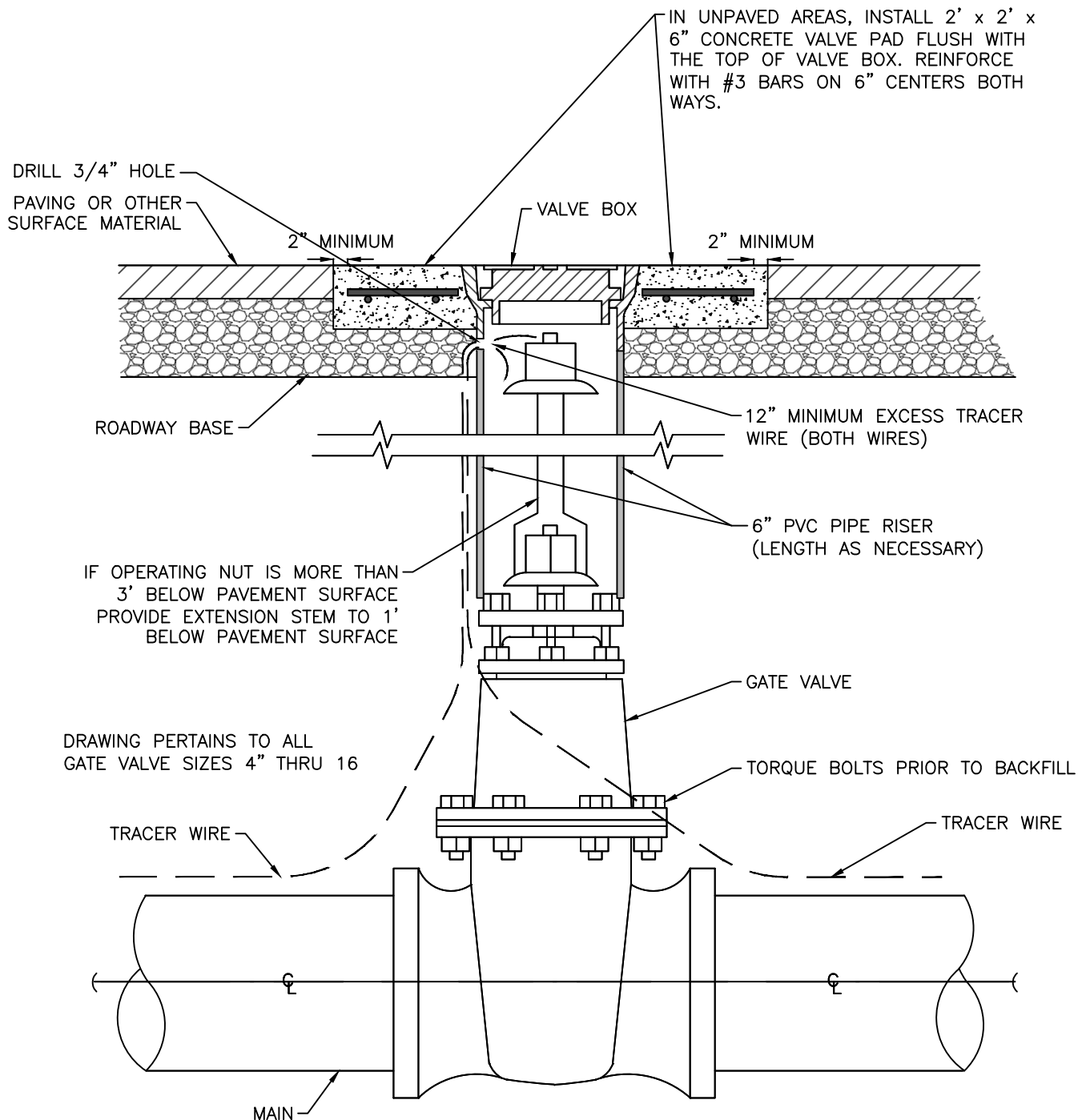
NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		FIRE HYDRANT INSTALLATION
	DRAWN BY		
	CITY OF WEATHERFORD		



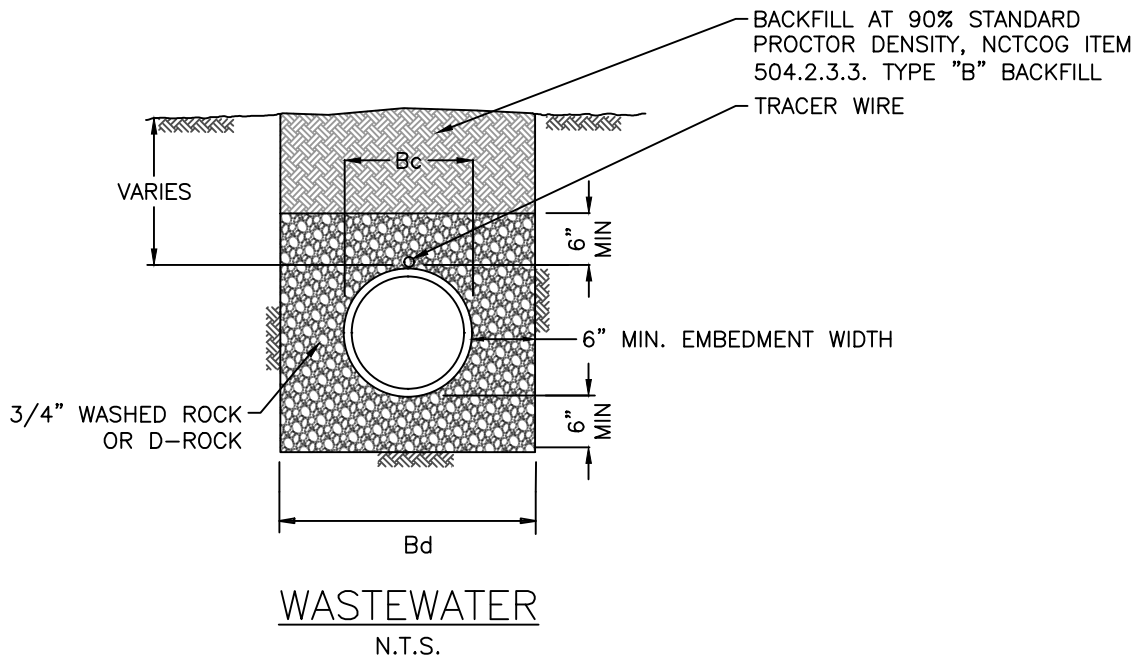
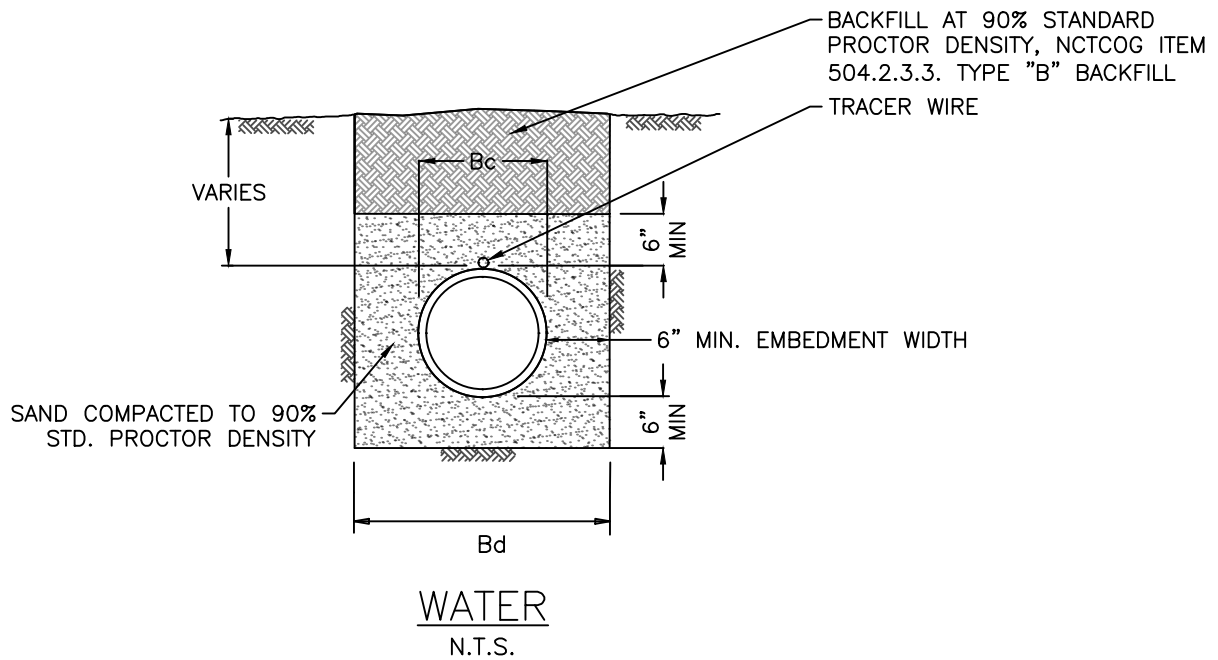
NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		W4
	DRAWN BY	GATE VALVE BOX 4 FOOT OR LESS	
	CITY OF WEATHERFORD		



NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY	GATE VALVE BOX & EXTENSION STEM DEEPER THAN 4 FOOT	W5
	CITY OF WEATHERFORD		



NOTES:

1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH
3. WHEN CONNECTING TO AN EXISTING CLAY WASTEWATER LINE, A FURNCO RUBBER BOOT, OR APPROVED EQUAL, SHALL BE USED.

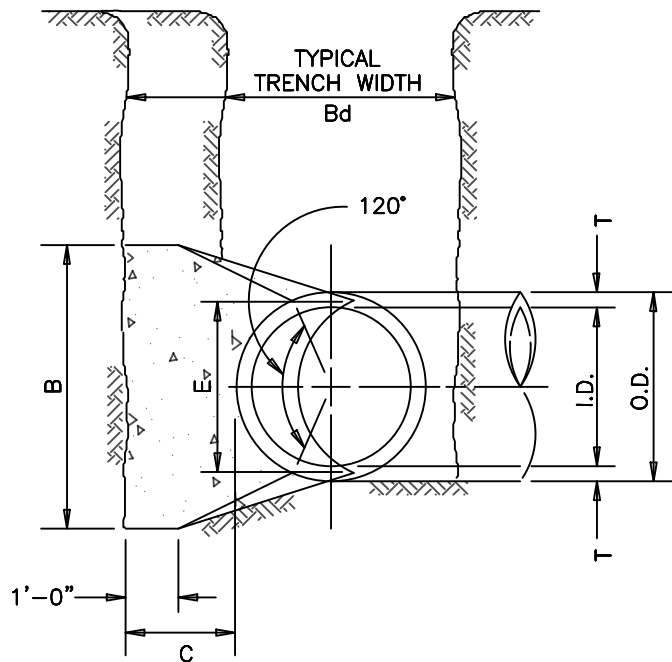
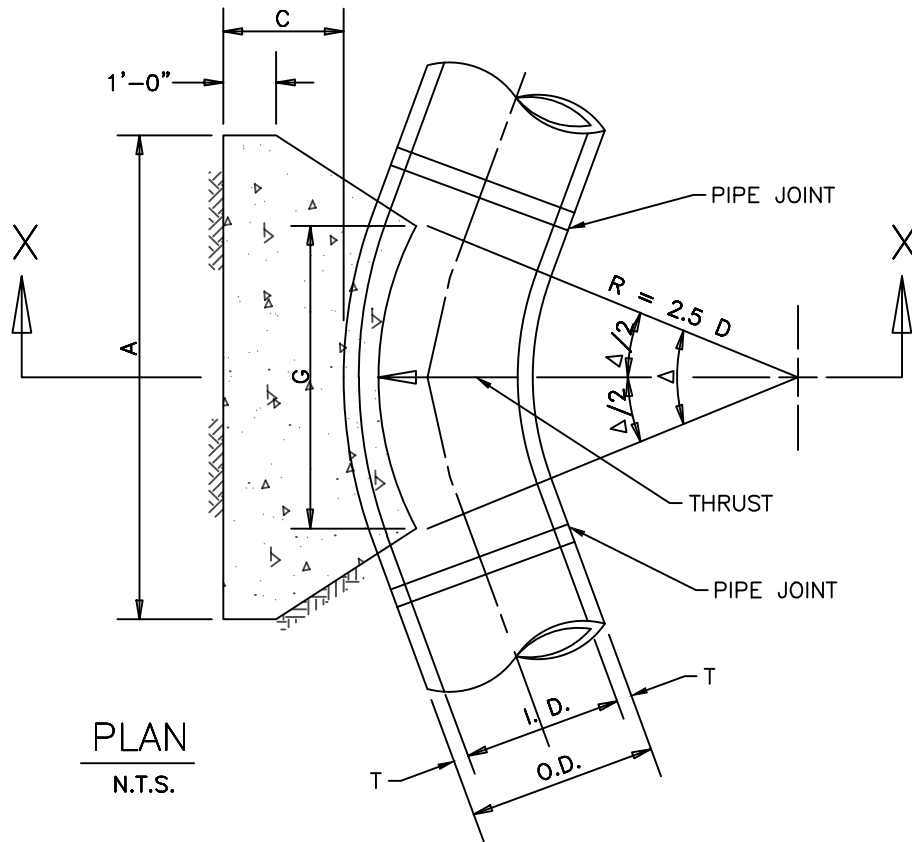
NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	06/2024		TYPICAL UTILITY TRENCH SECTION NON-PAVED AREAS
	DRAWN BY		
	CITY OF WEATHERFORD		

GENERAL NOTES FOR ALL THRUST BLOCKS:

1. CONCRETE FOR BLOCKING SHALL BE CLASS "B".
2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTILE IRON, P.V.C., AND 150 PSI FOR CONCRETE PIPE. IF PRESSURES EXCEEDED, RECALCULATE FOR THRUST BLOCKING DIMENSIONS.
3. VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND.
4. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
5. POUR CONCRETE FOR BLOCK AGAINST UNDISTURBED EARTH.
6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
7. THE SOIL BEARING PRESSURES ARE BASED ON 1000 LBS./S.F. IN SOIL AND 2000 LBS./S.F. IN ROCK.
8. USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND, TEE, OR PLUG TO PREVENT THE CONCRETE FROM STICKING TO IT.
9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.
10. ALL FITTINGS THAT REQUIRE THRUST BLOCKING SHALL ALSO INCLUDE MECHANICAL JOINT RESTRAINTS, EBBA IRON SERIES 2000 PV.

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
	CITY OF WEATHERFORD	THRUST BLOCK GENERAL NOTES	W7



NOTE:
REFER TO W7 FOR GENERAL NOTES

NOT TO SCALE



DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT
HORIZONTAL THRUST BLOCK
AT PIPE BEND

SHEET. #

W8

I.D. (IN.)	Δ = 30°								I.D. (IN.)	Δ = 45°							
	G (FT.)	THRUST (TONS)	EARTH			ROCK				G (FT.)	THRUST (TONS)	EARTH			ROCK		
			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)				A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)
4,6,8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1	4,6,8	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1
10,12	1.5	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10,12	2.2	8.7	3.5	2.5	0.5	2.0	2.5	0.3
16,18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.4	16,18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.5	0.7
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.1
30	3.6	27.5	6.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.6
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.9
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5	21.5	13.0	49.8	14.5	9.5	25.9
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.6
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.6
96	11.6	281.2	18.0	16.0	55.5	12.5	11.5	28.9	96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5

I.D. (IN.)	Δ = 67.50°								I.D. (IN.)	Δ = 90°							
	G (FT.)	THRUST (TONS)	EARTH			ROCK				G (FT.)	THRUST (TONS)	EARTH			ROCK		
			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)				A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)
4,6,8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4,6,8	2.7	7.1	5.0	1.5	0.4	2.0	2.0	0.2
10,12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10,12	4.0	16.0	6.5	2.5	1.0	3.5	2.5	0.5
16,18	4.7	28.3	7.5	4.0	1.9	5.5	3.0	0.9	16,18	6.0	36.0	9.0	4.0	2.4	4.5	4.0	1.0
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.1
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3
36	9.4	84.9	14.5	6.0	8.2	9.5	4.5	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	14.0	5.5	8.7
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	26.2	16.0	6.0	12.4
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9	54	17.9	243.0	27.0	9.0	36.9	18.0	7.0	18.1
60	15.6	235.8	24.0	10.0	35.6	16.0	7.5	17.6	60	19.9	299.8	30.0	10.0	50.3	20.0	7.5	24.0
66	17.1	285.3	26.0	11.0	46.0	18.0	8.0	23.0	66	21.8	362.8	33.0	11.0	66.2	22.0	8.5	32.5
72	18.7	339.5	28.5	12.0	57.8	19.0	9.0	28.4	72	23.8	431.8	36.0	12.0	85.6	24.0	9.0	41.0
78	20.2	398.5	31.0	13.0	75.7	21.0	9.5	37.4	78	25.7	506.7	39.0	13.0	108.2	26.0	10.0	53.2
84	21.8	462.1	33.5	14.0	94.7	22.0	10.5	46.5	84	27.7	587.7	42.0	14.0	134.4	28.0	10.5	64.8
90	23.3	530.5	35.5	15.0	114.4	24.5	11.0	58.2	90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2
96	24.9	603.6	38.0	16.0	138.9	25.5	12.0	70.0	96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95.1

TABLES OF DIMENSIONS AND QUANTITIES

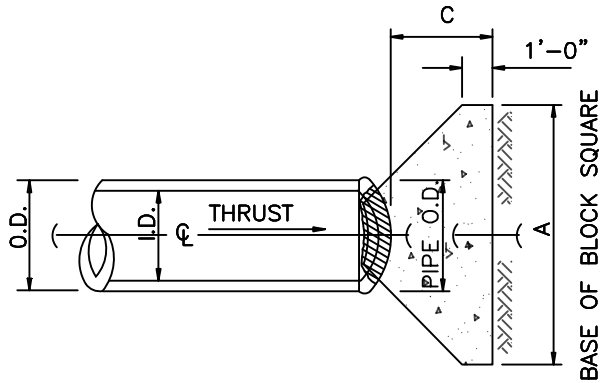
	DATE	UTILITY DEPARTMENT HORIZONTAL THRUST BLOCK AT PIPE BEND - TABLES 1	SHEET. #
	04/2023		W9
	DRAWN BY		
	CITY OF WEATHERFORD		

I.D. (IN.)	T (IN.)	$\Delta = 11.25'$ (FT.)	$\Delta \geq 22.50'$ (FT.)	E (FT.)
4,6,8	0.4	1.5	1.5	0.9
10,12	0.5	1.5	1.5	1.2
16,18	0.6	1.5	1.5	1.6
20	0.7	1.5	1.5	1.8
24	0.9	1.5	1.5	2.1
30	2.9	1.5	1.9	2.6
36	4.5	1.5	2.3	3.3
42	5.0	1.8	2.6	3.8
48	5.5	2.0	3.0	4.3
54	6.0	2.3	3.4	4.8
60	6.5	2.5	3.8	5.3
66	6.8	2.8	4.1	5.7
72	7.5	3.0	4.5	6.3
78	7.5	3.3	4.9	6.7
84	8.0	3.5	5.3	7.2
90	8.5	3.8	5.6	7.7
96	9.0	4.0	6.0	8.2

I.D. (IN.)	Δ = 11.25'								I.D. (IN.)	Δ = 22.5'							
	G (FT.)	THRUST (TONS)	EARTH			ROCK				G (FT.)	THRUST (TONS)	EARTH			ROCK		
			A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)				A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)
4,6,8	0.4	1.0	1.0	1.5	0.1	1.0	1.0	0.1	4,6,8	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1
10,12	0.6	2.2	1.5	1.5	0.1	1.0	1.5	0.1	10,12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1
16,18	0.8	5.0	2.0	2.5	0.3	1.5	2.0	0.2	16,18	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3
20	0.9	6.2	2.0	3.5	0.4	1.5	3.0	0.3	20	1.8	12.3	3.5	3.5	0.7	2.0	3.0	0.4
24	1.1	8.9	3.0	3.5	0.5	1.5	3.0	0.3	24	2.2	17.7	4.0	4.5	1.0	3.0	3.5	0.5
30	1.4	10.4	3.0	3.5	0.6	2.0	3.5	0.4	30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8
36	1.7	15.0	3.5	4.5	0.9	2.0	4.0	0.5	36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3
42	1.9	20.4	4.5	5.0	1.5	2.5	5.0	0.8	42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1
48	2.2	26.6	4.5	6.0	2.0	2.5	6.0	1.1	48	4.4	52.9	8.0	7.0	5.7	4.5	6.0	2.8
54	2.5	33.7	6.0	6.0	3.0	3.0	6.0	1.4	54	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1
60	2.7	41.6	6.0	7.0	3.8	3.0	7.0	1.8	60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3
66	3.0	50.3	6.5	8.0	5.1	3.5	8.0	2.7	66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2
72	3.3	59.9	7.5	8.0	6.3	4.0	8.0	3.3	72	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1
78	3.6	70.2	8.0	9.0	8.1	4.0	9.0	3.9	78	7.1	139.8	12.0	12.0	22.5	8.0	9.0	11.7
84	3.8	81.5	8.5	10.0	10.3	4.5	10.0	5.3	84	7.6	162.1	13.0	12.5	27.2	8.5	10.0	14.8
90	4.1	93.5	9.5	10.0	12.2	5.0	10.0	6.3	90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7
96	4.4	106.4	10.0	11.0	15.0	5.0	11.0	7.4	96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8

TABLES OF DIMENSIONS AND QUANTITIES

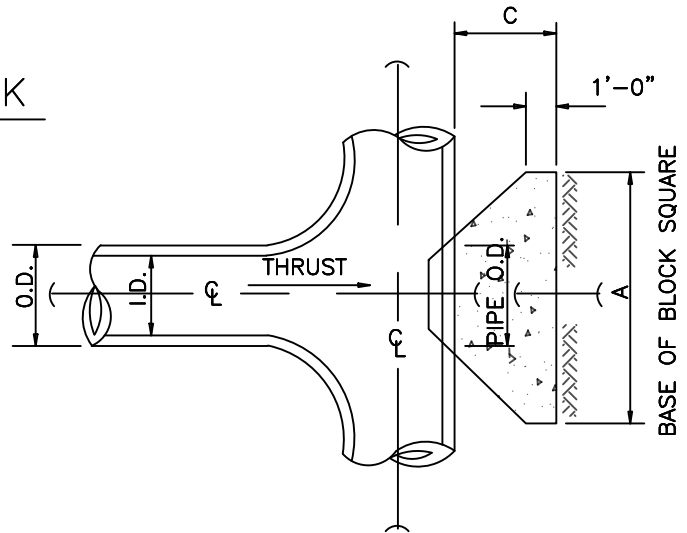
	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		W10
	DRAWN BY	HORIZONTAL THRUST BLOCK AT PIPE BEND - TABLES 2	
	CITY OF WEATHERFORD		



PLAN OF PLUG THRUST BLOCK

N.T.S.

REFER TO W7
FOR GENERAL NOTES.



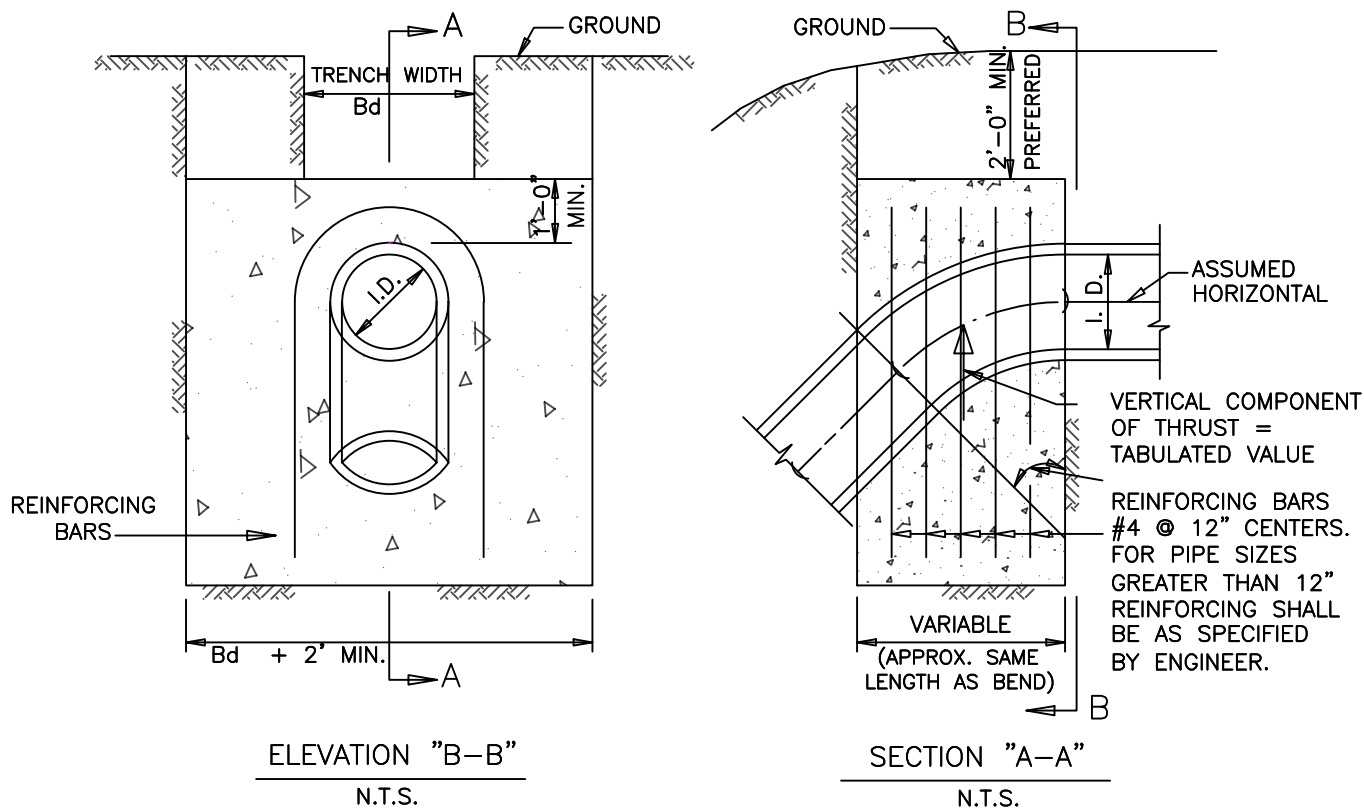
PLAN OF TEE THRUST BLOCK

N.T.S.

I.D. (IN.)	THRUST (TONS)	C (FT.)	EARTH		ROCK	
			A (FT.)	VOL. (C.Y.)	A (FT.)	VOL. (C.Y.)
4,6,8	5.1	1.5	2.5	0.3	2.0	0.2
10,12	11.3	1.5	3.5	0.6	2.5	0.3
16,18	25.5	2.0	5.5	1.6	4.0	0.9
20	31.5	2.0	6.0	1.9	4.0	0.9
24	45.2	2.5	7.0	3.1	5.0	1.7
30	53.0	3.0	7.5	4.1	5.5	2.4
36	76.3	4.0	9.0	7.3	6.5	4.2
42	104.0	4.5	10.5	11.0	7.5	6.2
48	136.0	5.0	12.0	15.6	8.5	8.7
54	172.0	5.5	13.5	21.4	9.5	11.9
60	212.0	6.0	15.0	28.4	10.5	15.7
66	257.0	6.5	16.5	36.8	11.5	20.5
72	305.0	7.5	17.5	47.2	12.5	27.2
78	358.0	8.0	19.0	58.9	13.5	33.7
84	416.0	8.5	20.5	72.3	14.5	41.2
90	477.0	9.0	22.0	87.7	15.5	49.7
96	543.0	9.5	23.5	104.8	16.5	61.0

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		W11
	DRAWN BY	HORIZONTAL THRUST BLOCK AT TEES & PLUGS	
	CITY OF WEATHERFORD		

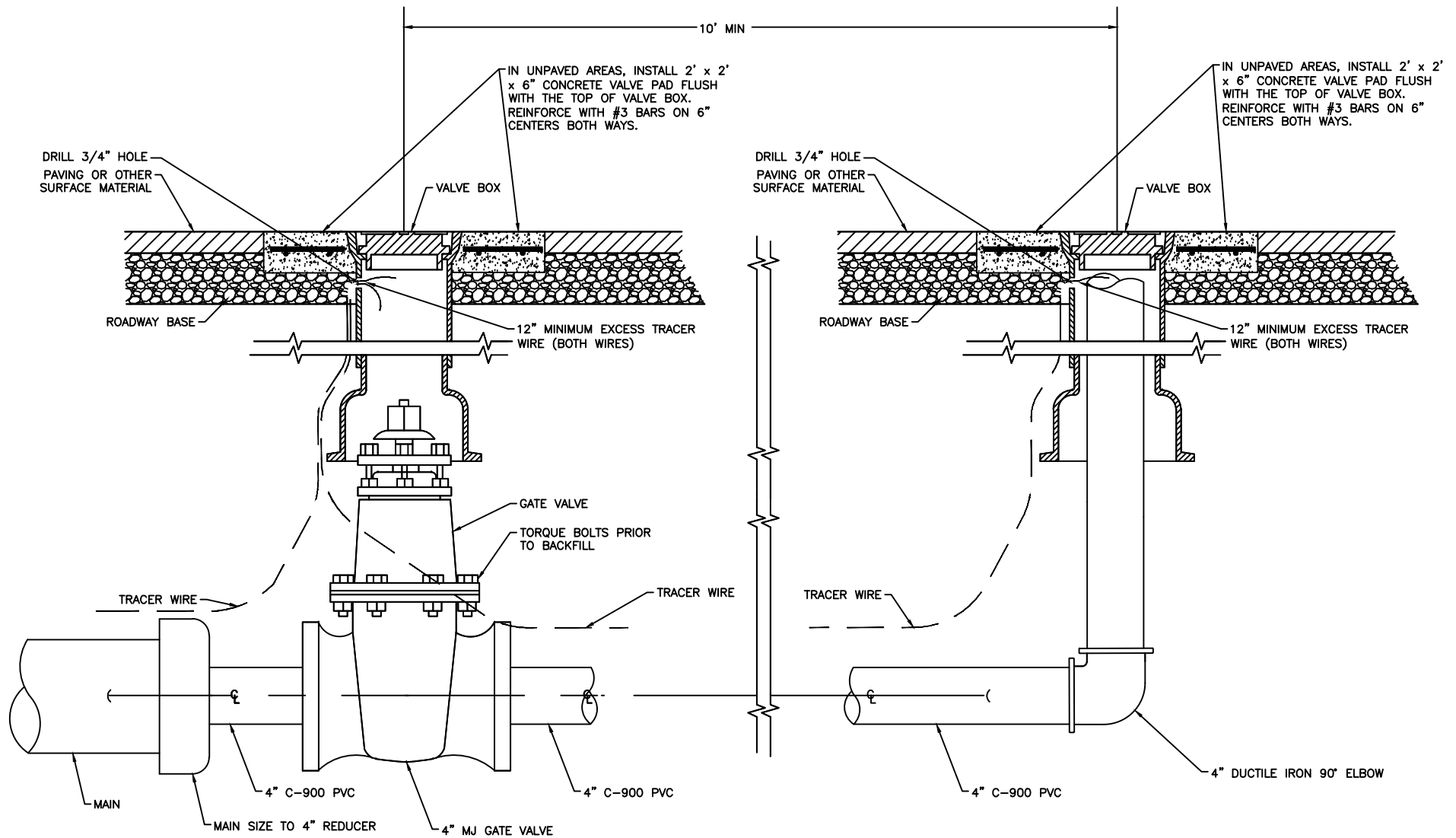


REFER TO W7
FOR GENERAL NOTES.

Δ →	11.25°		22.5°		30°		45°		67.5°		90°		← Δ
I.D. (IN.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	I.D. (IN.)
4,6,8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4,6,8
10,12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10,12
16,18	5.0	2.5	9.7	4.9	12.7	6.4	18.0	9.0	23.5	11.8	25.5	12.7	16,18
20	6.1	3.1	12.0	6.0	15.7	7.9	22.2	11.1	29.2	14.5	31.4	15.7	20
24	8.2	4.4	17.3	8.7	22.6	11.3	32.0	16.0	41.8	20.9	45.2	22.6	24
30	10.5	5.2	20.3	10.1	26.5	13.3	37.5	18.8	49.0	24.5	53.1	26.5	30
36	14.9	7.5	29.2	14.6	38.2	19.1	54.0	27.0	70.5	35.3	76.4	38.2	36
42	20.3	10.1	39.8	19.9	52.0	26.0	73.5	36.7	96.0	48.0	104.0	52.0	42
48	26.5	13.2	51.9	26.0	67.9	33.9	96.0	48.0	126.0	62.7	136.0	67.9	48
54	33.5	16.8	65.7	32.9	85.9	42.9	122.0	60.7	159.0	79.4	172.0	85.9	54
60	41.4	20.7	81.2	40.6	106.0	53.0	150.0	75.0	196.0	98.0	212.0	106.0	60
66	50.1	25.0	98.2	49.1	128.0	64.2	182.0	90.7	237.0	119.0	257.0	128.0	66
72	59.6	29.8	117.0	58.4	153.0	76.3	216.0	108.0	282.0	141.0	305.0	153.0	72
78	69.9	35.0	137.0	68.6	179.0	90.0	254.0	127.0	331.0	166.0	358.0	179.0	78
84	81.1	40.5	159.0	79.5	208.0	104.0	294.0	147.0	384.0	192.0	416.0	208.0	84
90	93.1	46.5	183.0	91.3	239.0	119.0	337.0	169.0	441.0	221.0	477.0	239.0	90
96	106.0	53.0	208.0	104.0	272.0	136.0	384.0	192.0	502.0	251.0	543.0	272.0	96

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY	VERTICAL THRUST BLOCK AT PIPE BEND	
	CITY OF WEATHERFORD	W12	



NOT TO SCALE



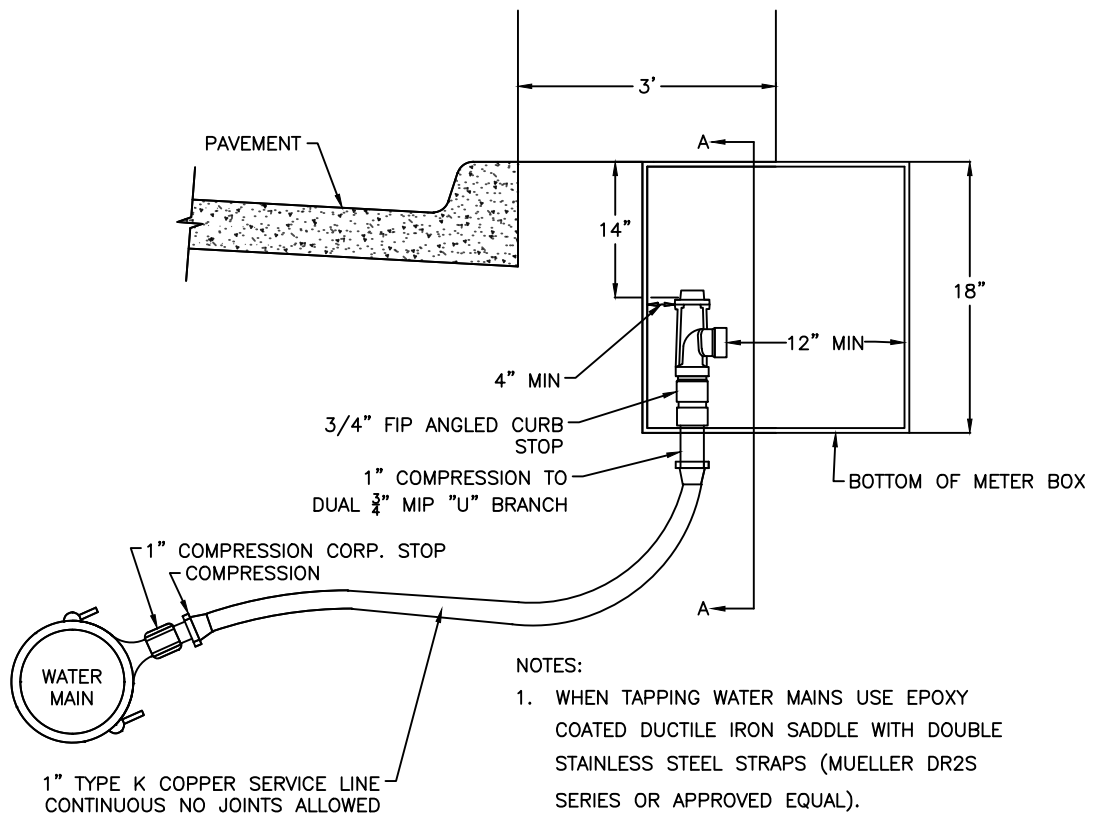
DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT

4" FLUSHING POINT

SHEET. #

W13

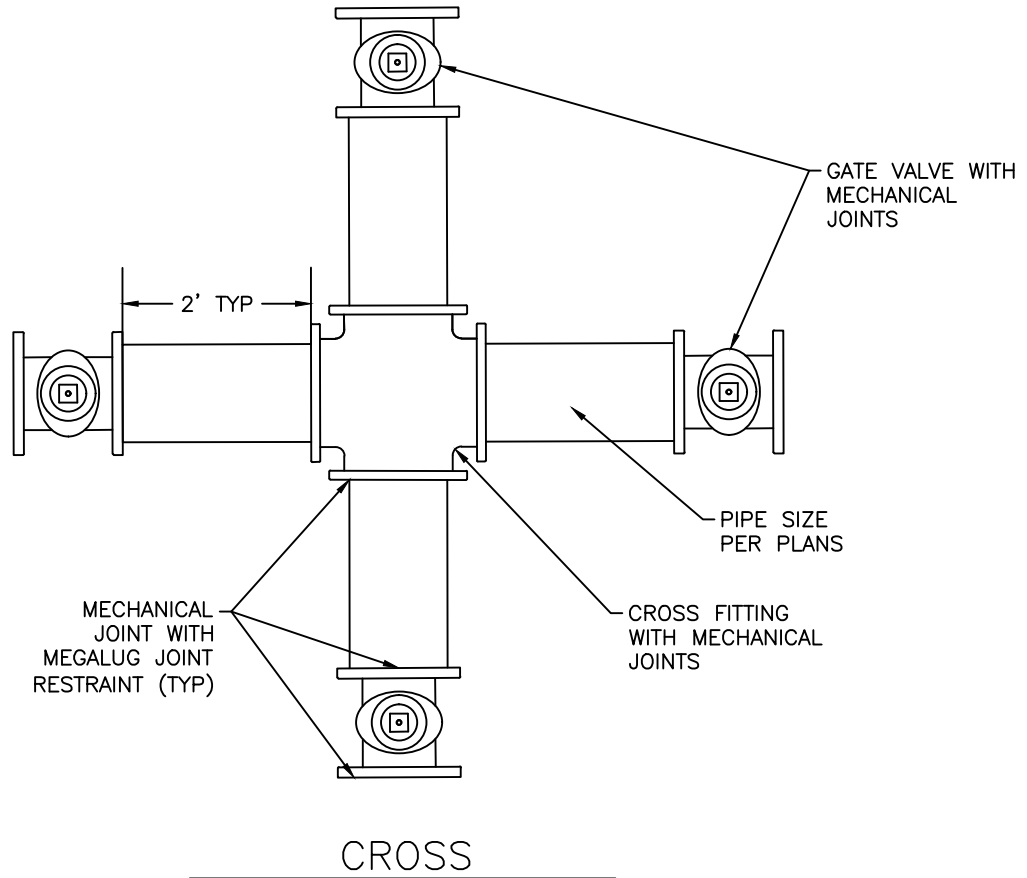
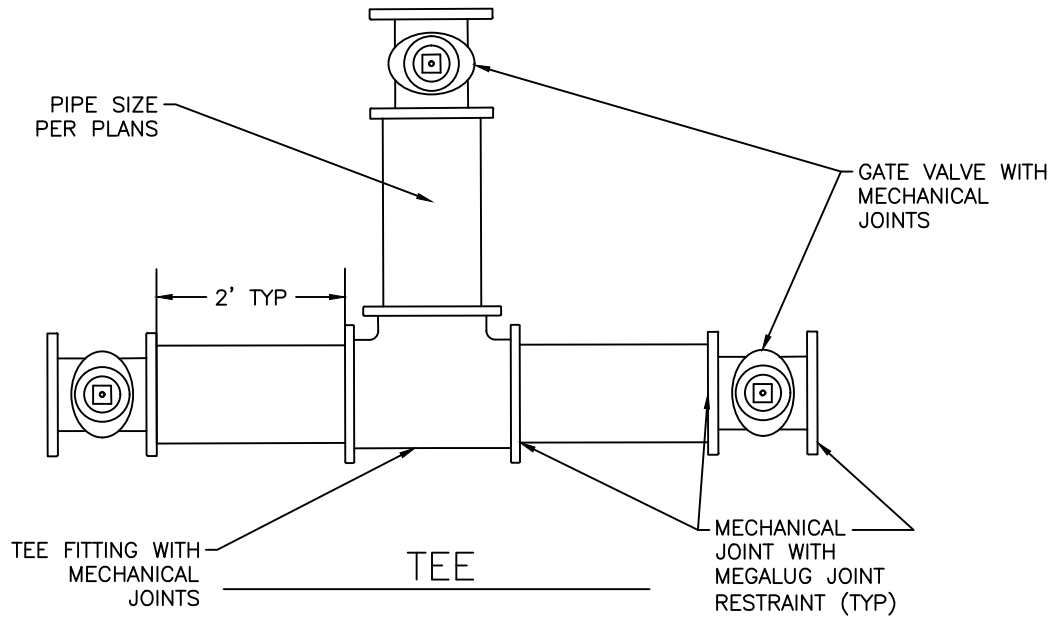


NOTES:

1. WHEN TAPPING WATER MAINS USE EPOXY COATED DUCTILE IRON SADDLE WITH DOUBLE STAINLESS STEEL STRAPS (MUELLER DR2S SERIES OR APPROVED EQUAL).
2. ALL COPPER FITTINGS SHALL BE COMPRESSION FITTINGS.
3. ALL SADDLES AND CORP. STOPS SHALL HAVE CC THREADS.
4. METER SHALL NOT BE INSTALLED IN SIDEWALKS.
5. METER BOX TO BE FURNISHED BY AND INSTALLED BY CONTRACTOR.
6. METER BOX SHALL BE 24" DIAMETER PVC WITH CAST IRON RING AND LID. DFW PLASTICS DFW2418F-1MBF 63D WFTX OR APPROVED EQUAL.
7. "U" BRANCH SHALL BE FORD U48-43-1.9-NL-G OR APPROVED EQUIVALENT.
8. CURB STOP SHALL BE FORD KV13-332W-NL OR APPROVED EQUIVALENT (3/4" FIP X SWIVEL NUT).
9. ALL METER CAN LIDS SHALL HAVE AMR READER HOLE.
10. CORP. STOP SHALL BE MUELLER H-15008N OR APPROVED EQUIVALENT.
11. METERS INSTALLED IN DRIVEWAYS MUST BE TRAFFIC RATED DFW PLASTICS DFWA4WBC-24-1MBF 63D WFTX OR APPROVED EQUAL.
12. USE RESTRICTED TO DUAL 3/4" METERS TO A SINGLE RESIDENTIAL LOT ONLY.

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	06/2024		
	DRAWN BY	DUAL $\frac{3}{4}$ INCH RESIDENTIAL SERVICE DETAIL	W14
	CITY OF WEATHERFORD		



NOTE: SIZE, TYPE, AND MATERIAL OF PIPES, FITTINGS, AND VALVES SHALL BE INSTALLED IN ACCORDANCE TO THE APPROVED PLANS AND SPECIFICATIONS.

NOT TO SCALE



DATE	04/2023
DRAWN BY	
CITY OF WEATHERFORD	

UTILITY DEPARTMENT
TYPICAL CROSS, TEE, AND VALVE LAYOUT DETAIL

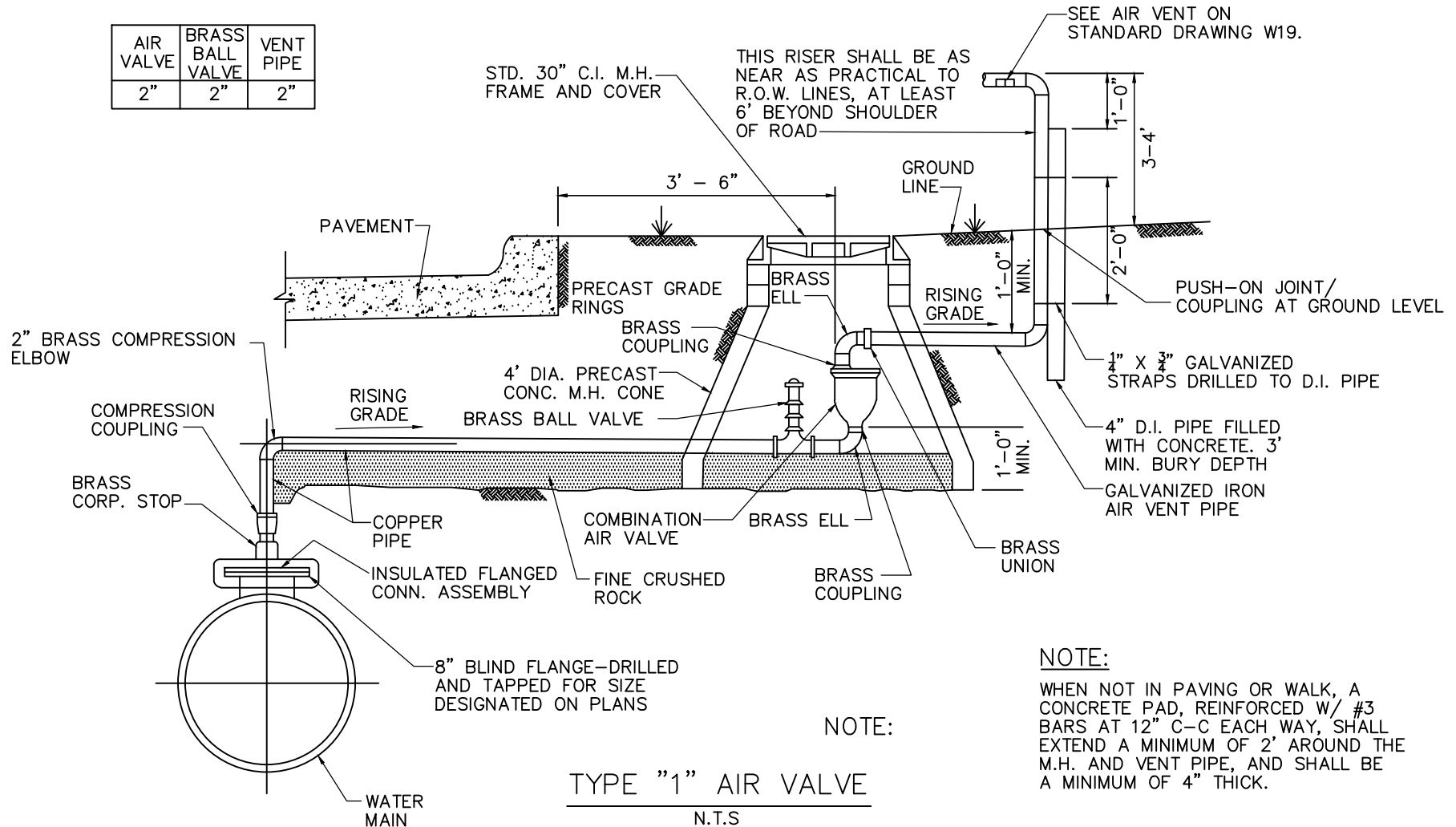
SHEET. #

W16

NOTE:

ALL BELOW GRADE FITTINGS ARE TO BE BRASS.

AIR VALVE	BRASS BALL VALVE	VENT PIPE
2"	2"	2"



TYPE "1" AIR VALVE
N.T.S

NOT TO SCALE



DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT

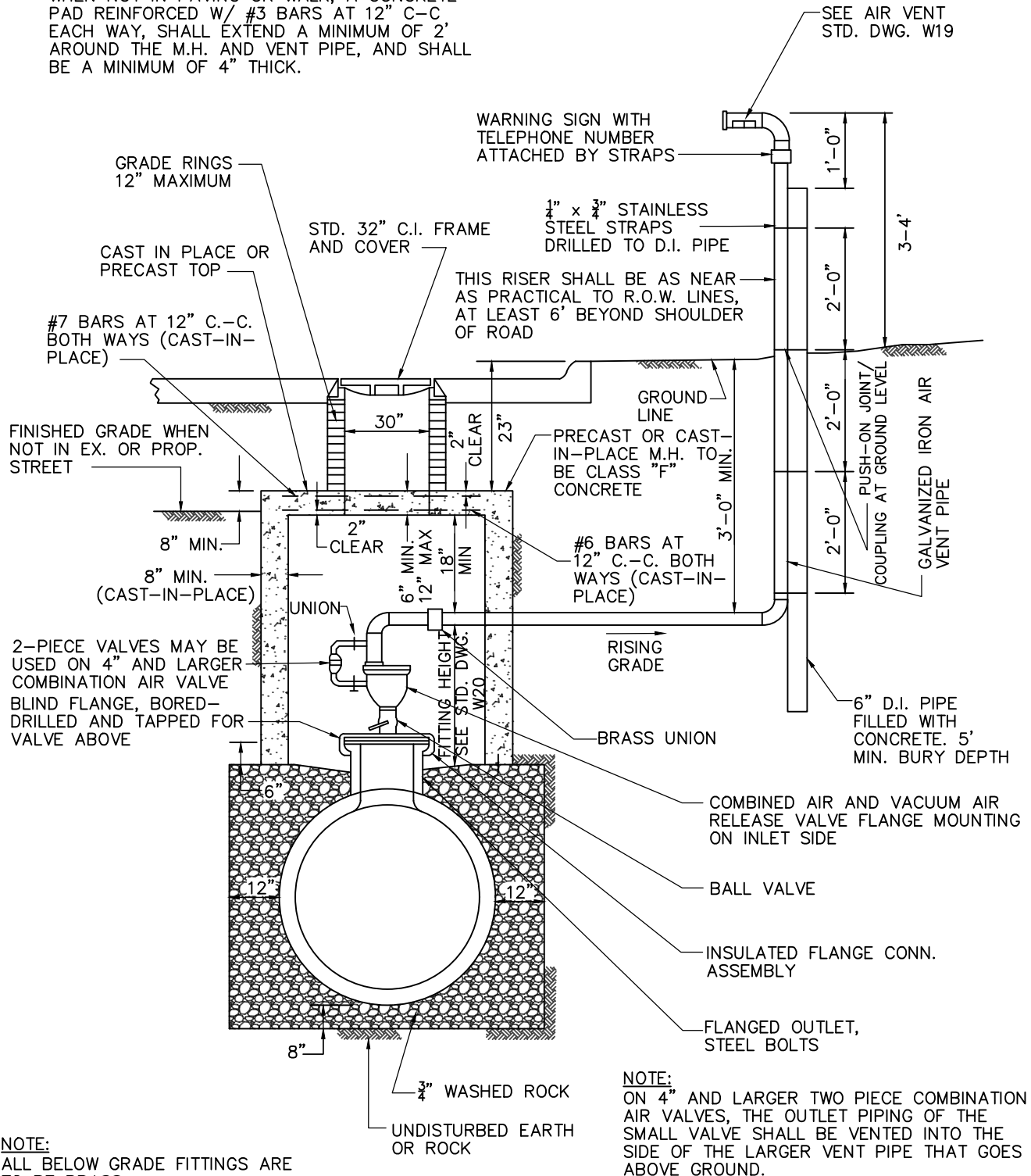
COMBINATION AIR VACUUM VALVE TYPE 1

SHEET. #

W17

NOTE:

WHEN NOT IN PAVING OR WALK, A CONCRETE PAD REINFORCED W/ #3 BARS AT 12" C-C EACH WAY, SHALL EXTEND A MINIMUM OF 2' AROUND THE M.H. AND VENT PIPE, AND SHALL BE A MINIMUM OF 4" THICK.



NOTE:

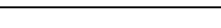
ALL BELOW GRADE FITTINGS ARE TO BE BRASS.

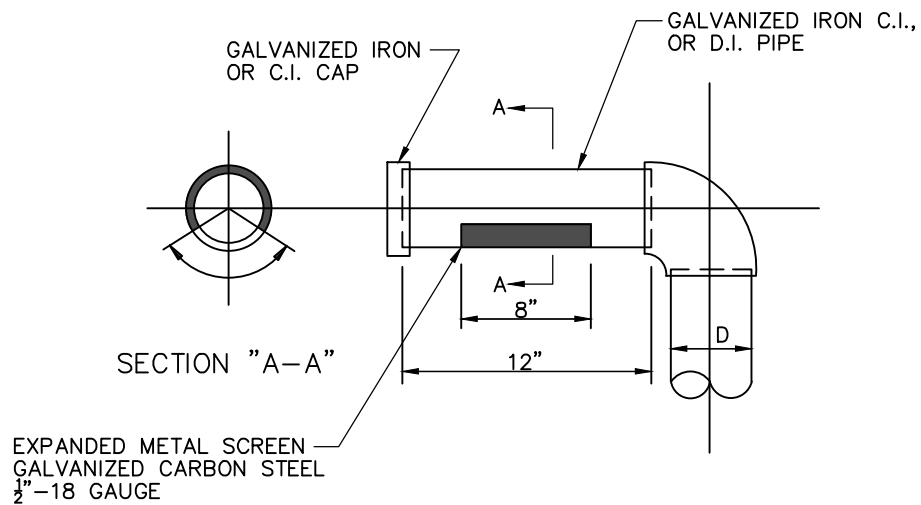
NOTE:

ON 4" AND LARGER TWO PIECE COMBINATION AIR VALVES, THE OUTLET PIPING OF THE SMALL VALVE SHALL BE VENTED INTO THE SIDE OF THE LARGER VENT PIPE THAT GOES ABOVE GROUND.

TYPE "2" AIR VALVE
N.T.S.

NOT TO SCALE

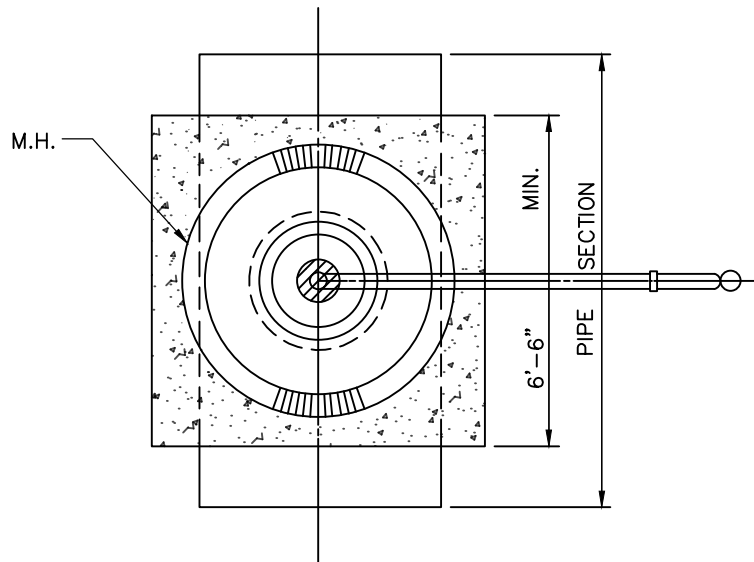
	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		COMBINATION AIR VACUUM VALVE TYPE 2
	DRAWN BY		
	CITY OF WEATHERFORD		



AIR VENT

N.T.S.

AIR VALVE	GATE VALVE	FLG. OUTLET	MIN. FITTING HEIGHT	VENT PIPE D	M.H. DIA.
2"	2"	8"	26"	2"	5'
3"	3"	18"	31"	3"	5'
4"	4"	18"	38"	4"	5'
6"	6"	18"	46"	6"	5'
8"	8"	18"	53"	8"	6'
10"	10"	20"	62"	10"	6'
12"	12"	24"	72"	12"	6'



PLAN VIEW

N.T.S.

NOT TO SCALE



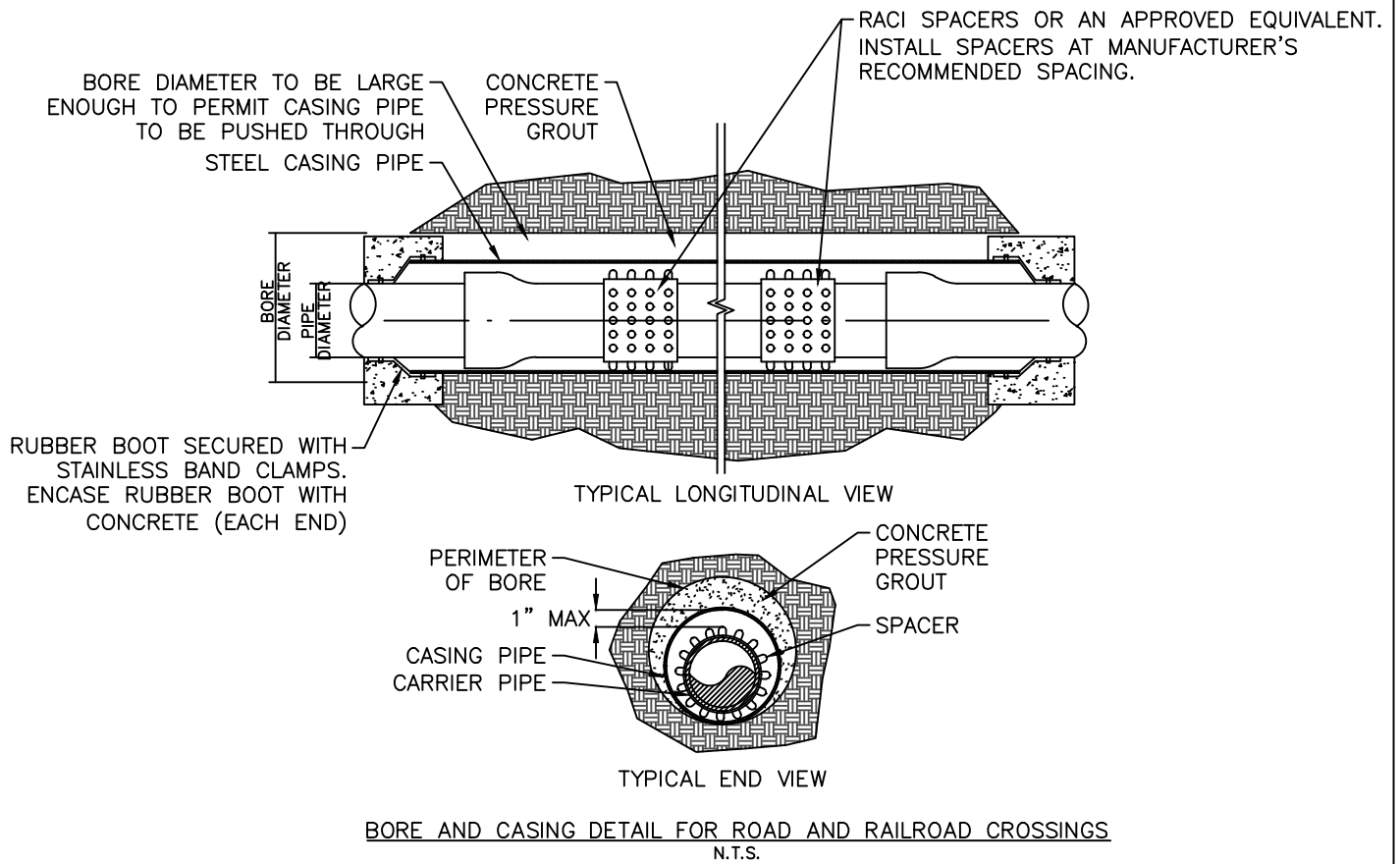
DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT

AIR RELEASE VALVE TYPE 2

SHEET. #

W19



NOTES:

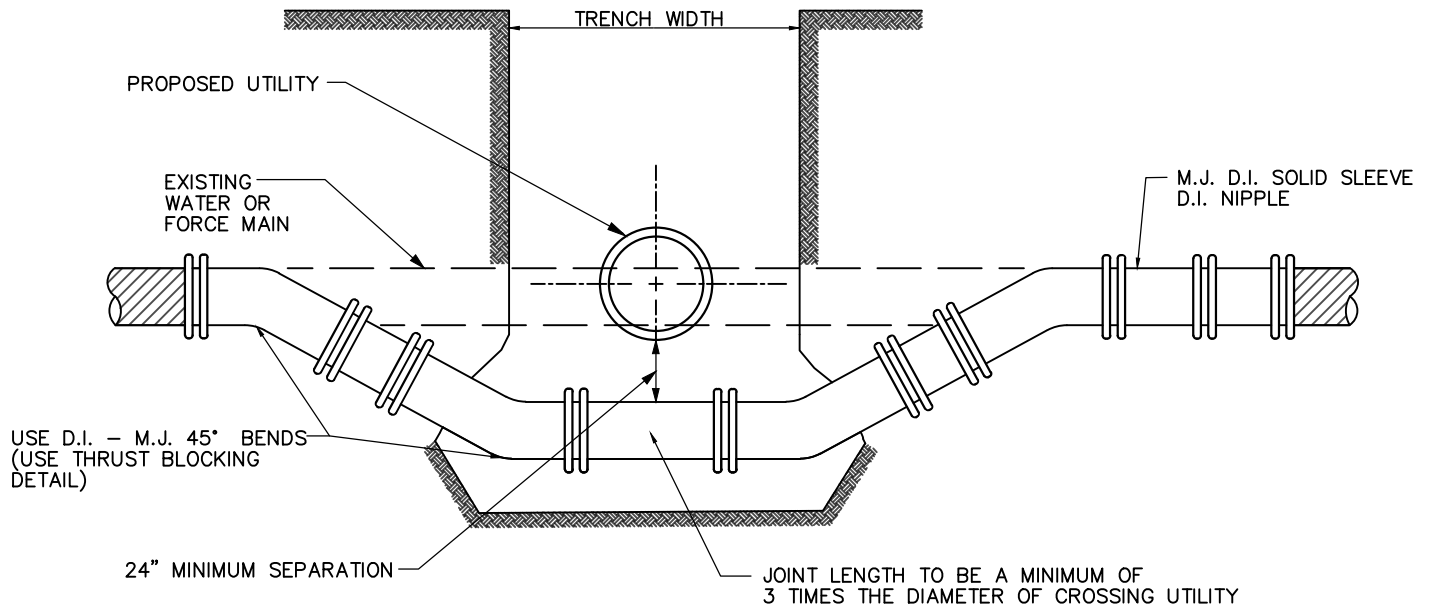
1. CARRIER PIPE COMPRESSION TYPE JOINTS TO BE USED IF POSSIBLE.
2. IF COMPRESSION TYPE JOINT IS NOT AVAILABLE FOR CARRIER PIPE, RESTRAINED MJ TYPE SHALL BE USED AND JOINTS BOLTED BEFORE PULLING PIPE INTO PLACE.
3. MINIMUM WALL THICKNESS OF 36" AND LARGER CASING SHALL BE 0.50".
4. PIPE SHALL BE COATED AND LINED IN ACCORDANCE WITH AWWA C-210 OR APPROVED EQUAL.
5. ALL CASING JOINTS SHALL BE WELDED IN ACCORDANCE WITH AWWA C-206. AFTER PIPE IS WELDED, COATING AND LINING SHALL BE REPAIRED.
6. CASING PRODUCT SHALL BE FROM A MANUFACTURER THAT HAS NOT LESS THAN FIVE(5) YEARS SUCCESSFUL EXPERIENCE MANUFACTURING PIPE IN THE UNITED STATES OF PARTICULAR TYPE AND SIZE. ALL PIPE MANUFACTURING INCLUDING CYLINDER PRODUCTION, LINING, COATING AND FITTINGS SHALL BE PRODUCED BY ONE MANUFACTURER. THE PIPE MANUFACTURER MUST HAVE A CERTIFIED QUALITY ASSURANCE PROGRAM. THE CERTIFIED PROGRAM SHALL BE ISO 9001: 2000 OR OTHER EQUIVALENT NATIONALLY RECOGNIZED PROGRAM.

STEEL CASING WALL THICKNESS	
DIA OF CASING PIPE	MIN THICKNESS
12" OR LESS	0.25"
12"-18"	0.3125"
18"-22"	0.3750"
22"-28"	0.4375

CASING PIPES SHALL BE SMOOTH STEEL PIPES WITH A MIN YIELD STRENGTH OF 35,000 PSI.

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
	CITY OF WEATHERFORD	BORE & CASING DETAIL	W20



NOTES:

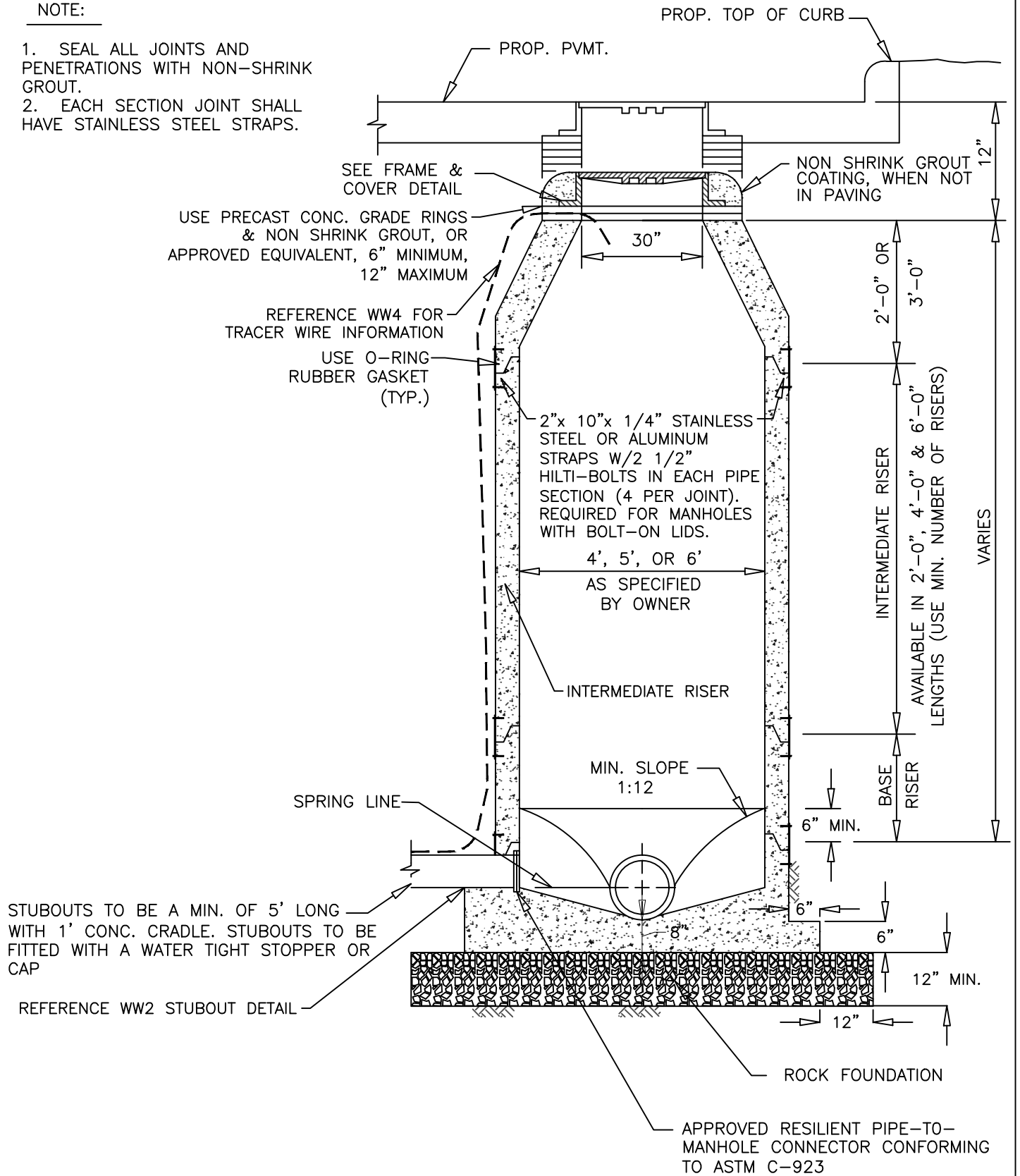
1. MEGA LUGS (OR APPROVED EQUAL) ARE REQUIRED ON ALL M.J. FITTINGS.
2. WHEN A PROPOSED WATER LINE IS TO BE LOWERED UNDER AN EXISTING WASTEWATER LINE, TEXAS ADMINISTRATIVE CODE RULE §290.44(e)(4)(B)(iii) APPLIES AND IS TO BE FOLLOWED. DESIGN ENGINEER IS TO SPECIFY HOW THE TAC WILL BE MET IN THE PLANS.
3. WHEN A PROPOSED FORCE MAIN IS TO BE LOWERED UNDER AN EXISTING WATER LINE, TEXAS ADMINISTRATIVE CODE RULE §217.53(d)(7) APPLIES AND IS TO BE FOLLOWED. DESIGN ENGINEER IS TO SPECIFY HOW THE TAC WILL BE MET IN THE PLANS.

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		W21
	DRAWN BY	WATER AND FORCE MAIN LOWERING	
	CITY OF WEATHERFORD		

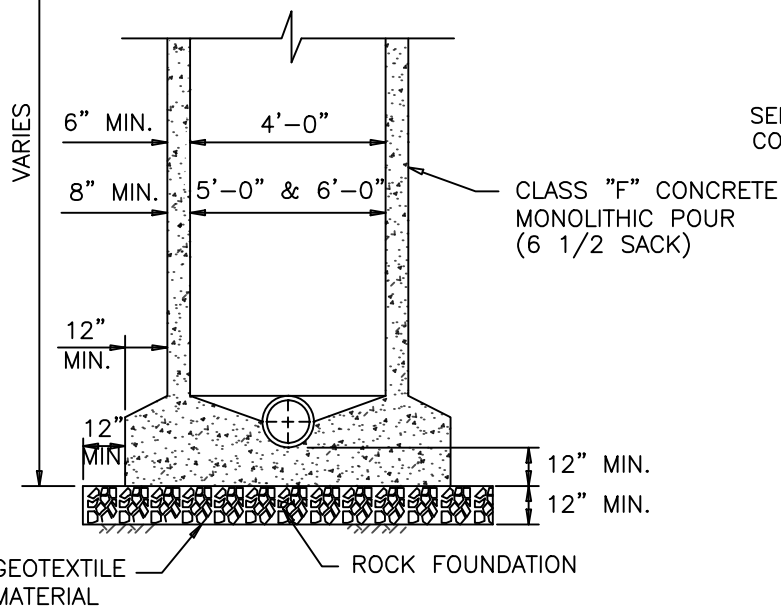
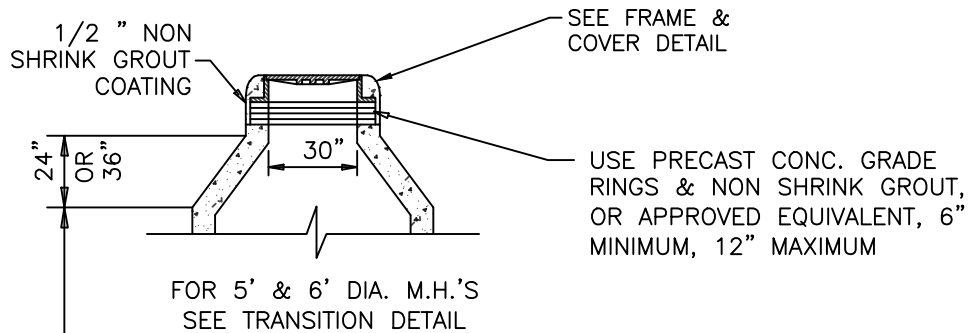
NOTE:

1. SEAL ALL JOINTS AND PENETRATIONS WITH NON-SHRINK GROUT.
2. EACH SECTION JOINT SHALL HAVE STAINLESS STEEL STRAPS.



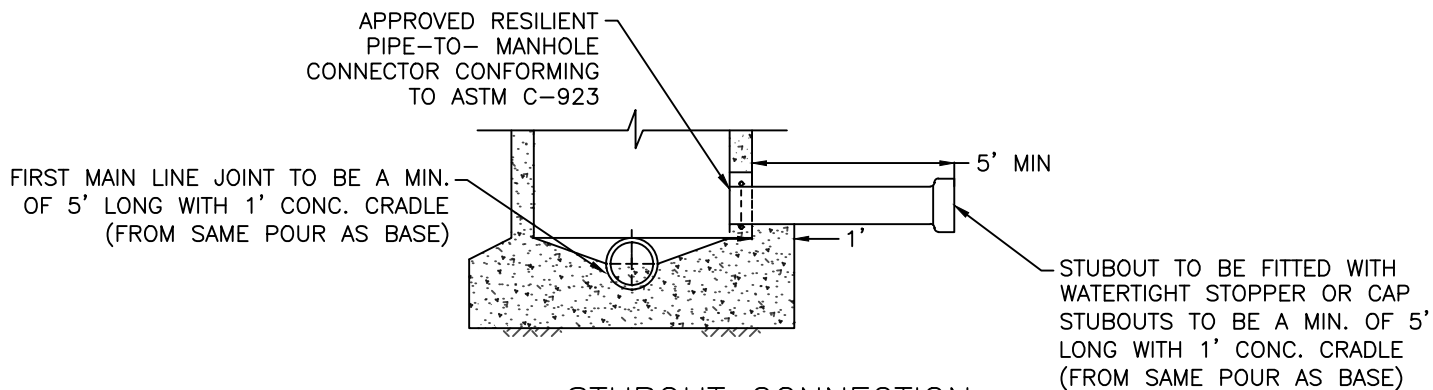
NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	12/2024		WASTEWATER MANHOLE PRECAST
	DRAWN BY		
	CITY OF WEATHERFORD		



NOTES

1. WHERE M.H.'S ARE IN "PROPOSED" PAVING, FRAME & COVER SHALL BE SET 6" BELOW THE PROPOSED PAVEMENT GRADE.



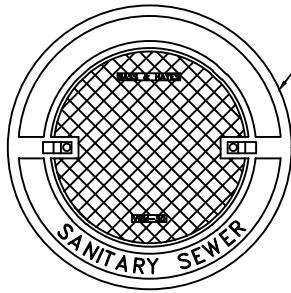
N.T.S.

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	06/2024		
	DRAWN BY	WASTEWATER MANHOLE CAST IN PLACE	WW2
	CITY OF WEATHERFORD		

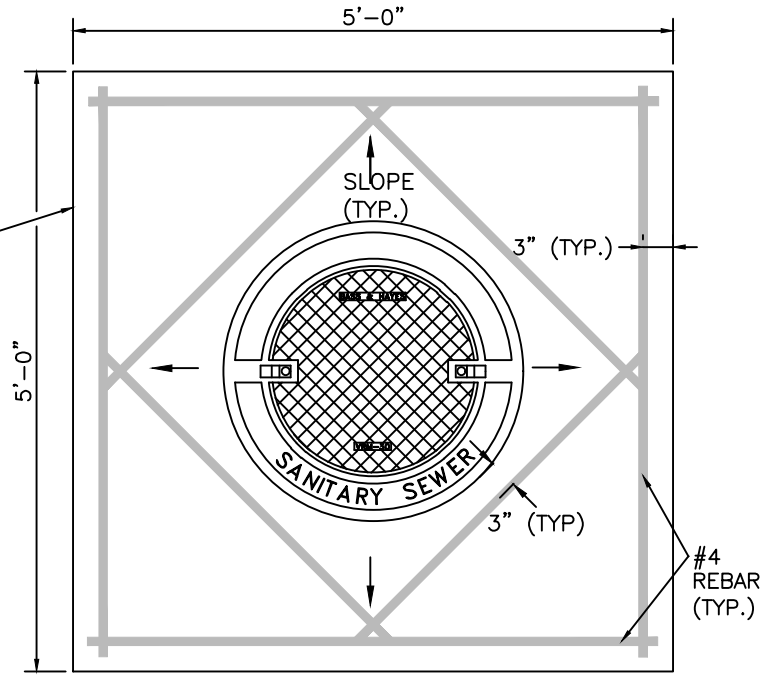
NOTE:
MANHOLE PAD SHALL BE SLOPED
TO PROVIDE ADEQUATE DRAINAGE
AWAY FROM MANHOLE COVER.

3,000 PSI CONCRETE
(6" MIN. THICKNESS)



MANHOLE COVER

N.T.S.



MANHOLE PAD FOR ALL MANHOLES IN
UNPAVED AREAS

N.T.S.

(4) S.S. BOLTS
(WATERTIGHT MANHOLES)

GROUT (TYP)

6"
2'
4"
MIN MAX.

30"

RUBBER GASKET
(WATERTIGHT MANHOLES ONLY)

(4) BOLTS 1/2"Ø
316 S.S.

PRECAST RING OR CAST
IN PLACE LEVELING RING
3000 PSI CONCRETE
REINFORCED AS SHOWN.

NOTE:

1. IF PRECAST ANCHOR BOLTS ARE
UNAVAILABLE, 316 S.S. HILTI EPOXY TYPE
ANCHOR BOLTS OF SIMILAR SIZE AND
STRENGTH WILL BE ALLOWED.

MANHOLE FRAME & COVER

N.T.S.

NOT TO SCALE



DATE

04/2023

DRAWN BY

CITY OF WEATHERFORD

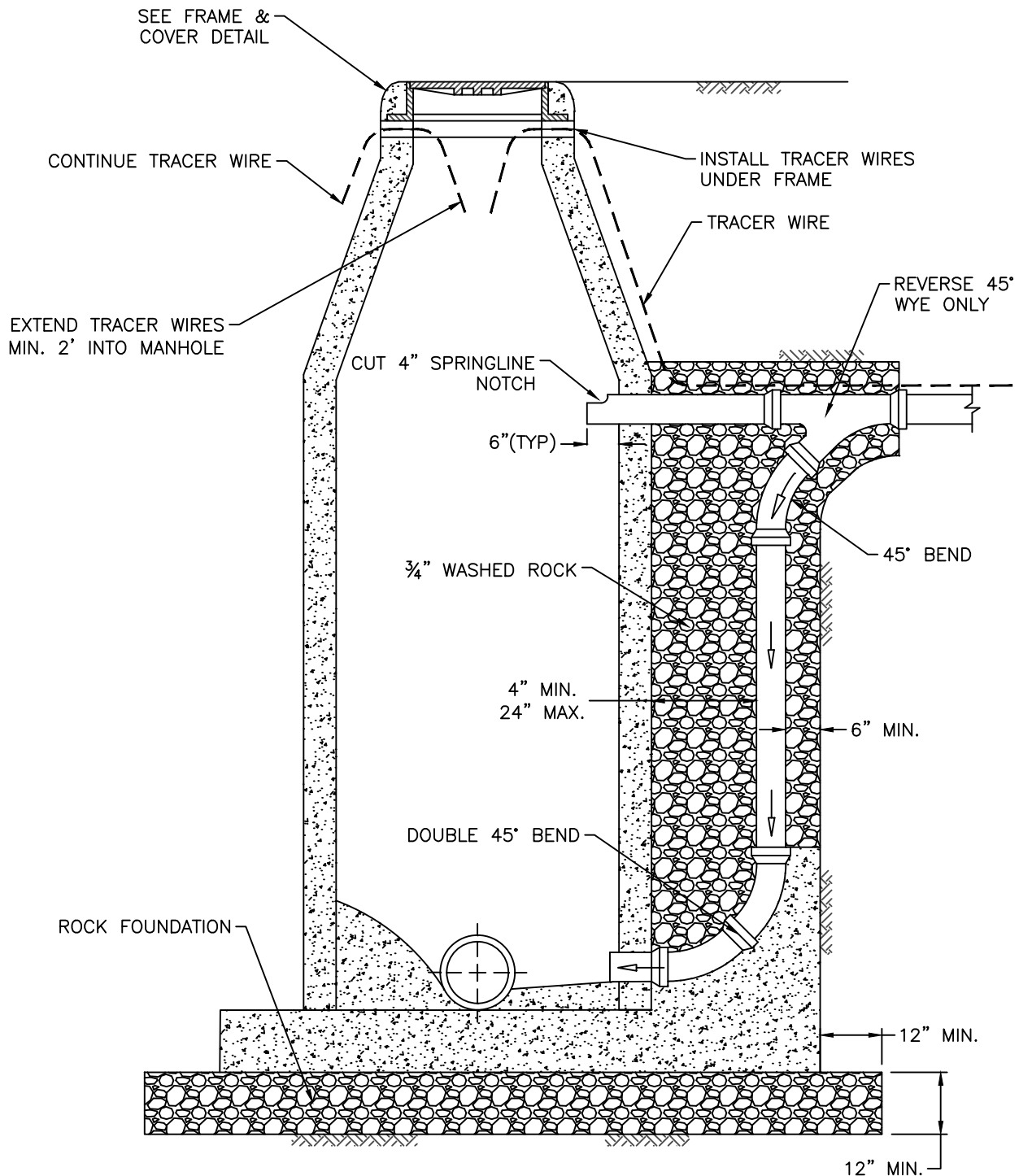
UTILITY DEPARTMENT

WASTEWATER MANHOLE
FRAME, COVER & PAD

SHEET. #

WW3

STANDARD DROP CONNECTION N.T.S.



NOT TO SCALE

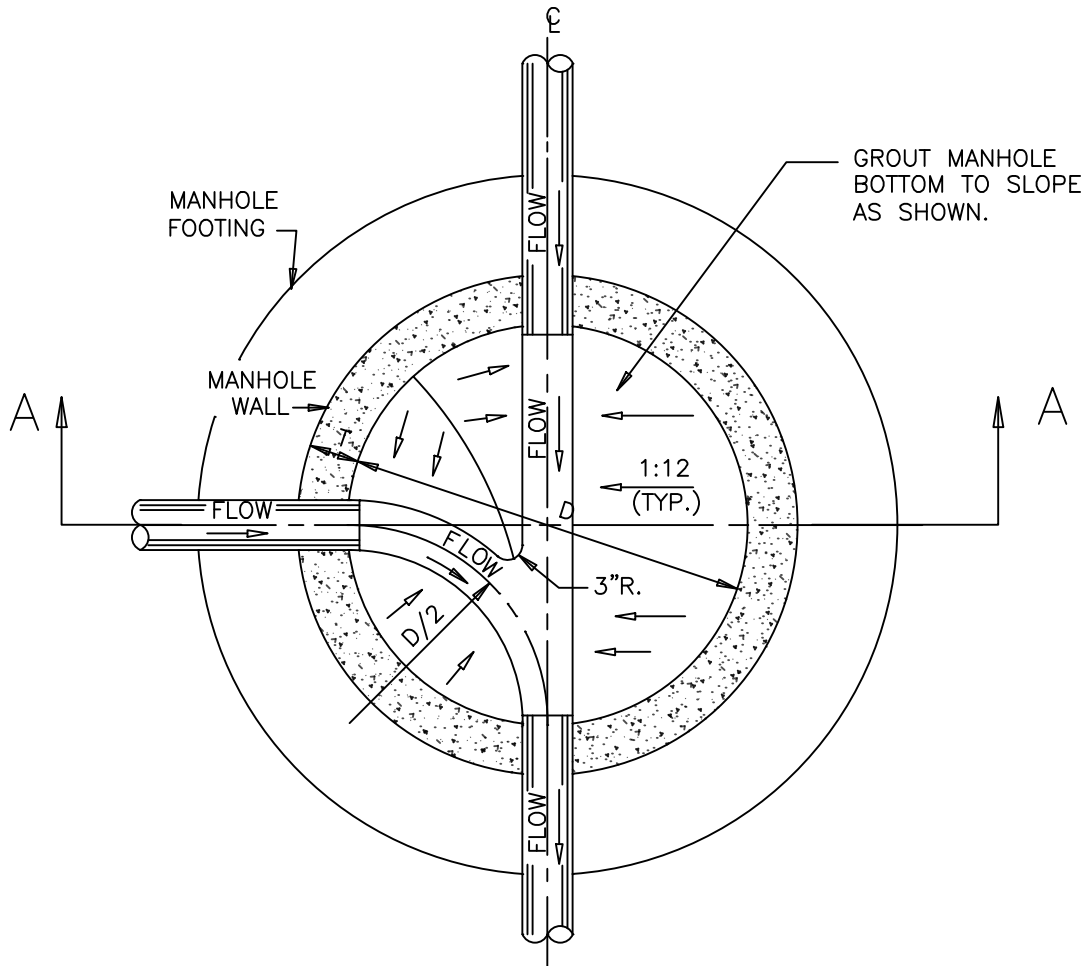


DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT
WASTEWATER MANHOLE
OUTSIDE DROP CONNECTIONS

SHEET. #

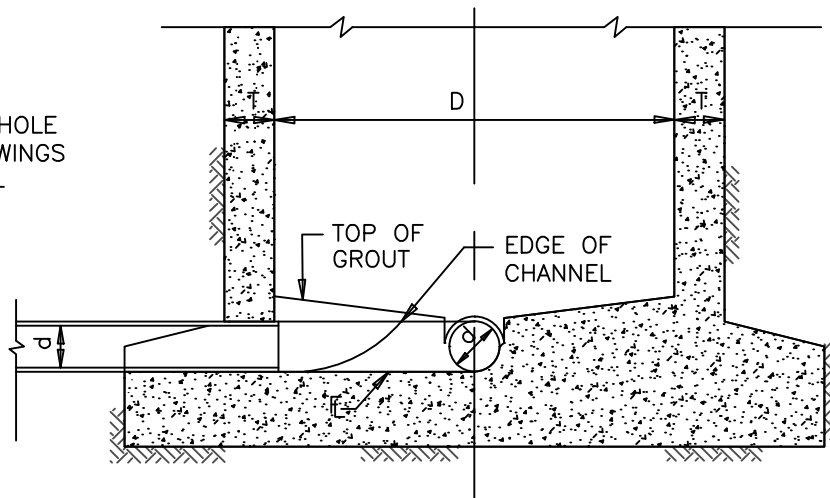
WW4



PLAN
N.T.S.

T = WALL THICKNESS
D = MANHOLE DIAMETER
d = PIPE DIAMETER

NOTE:
REFER TO MANHOLE
STANDARD DRAWINGS
FOR ADDITIONAL
DETAIL OF M.H.



SECTION A-A
N.T.S.

NOT TO SCALE

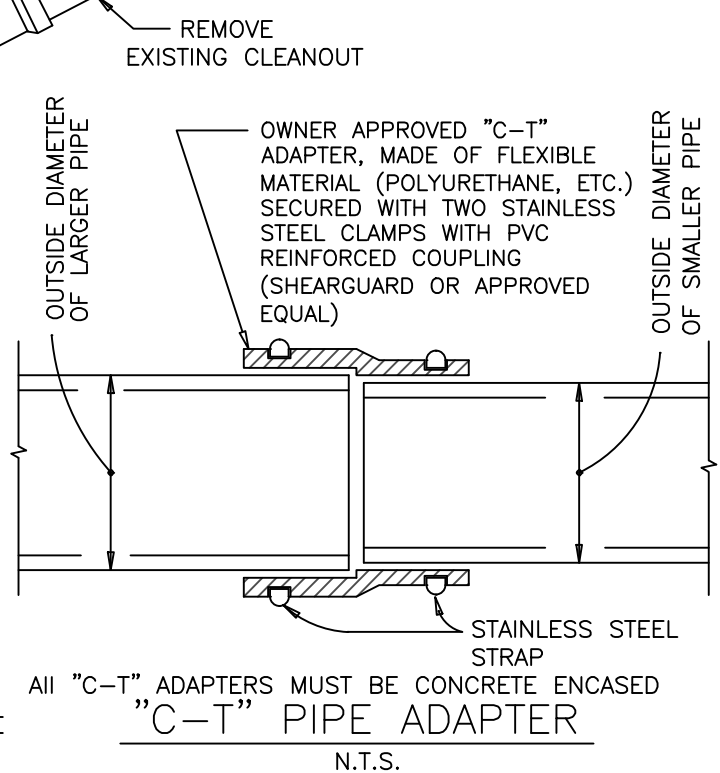
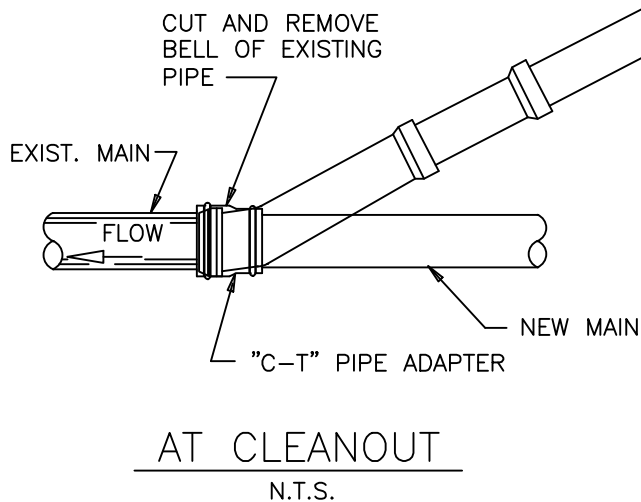
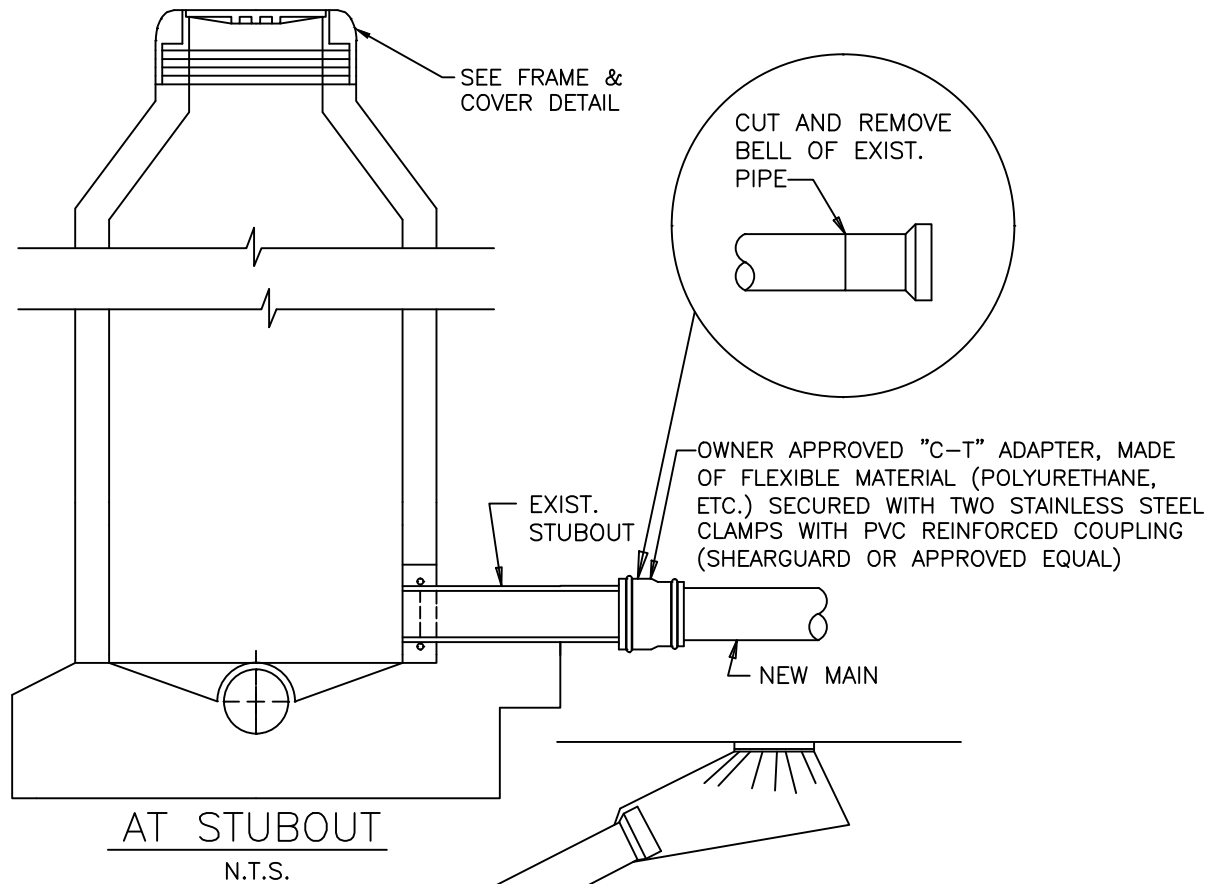


DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT
WASTEWATER MANHOLE
LINE INTERSECTION

SHEET. #

WW5



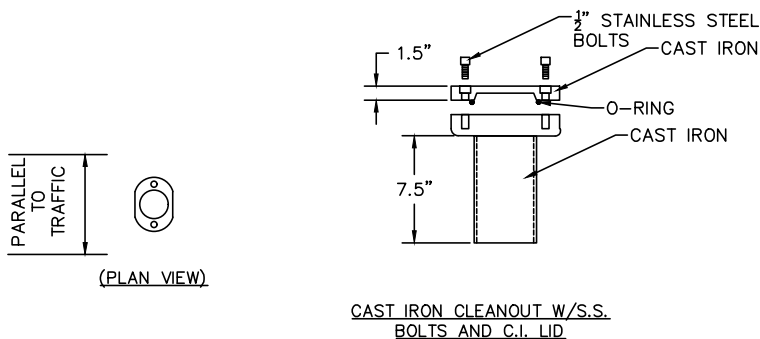
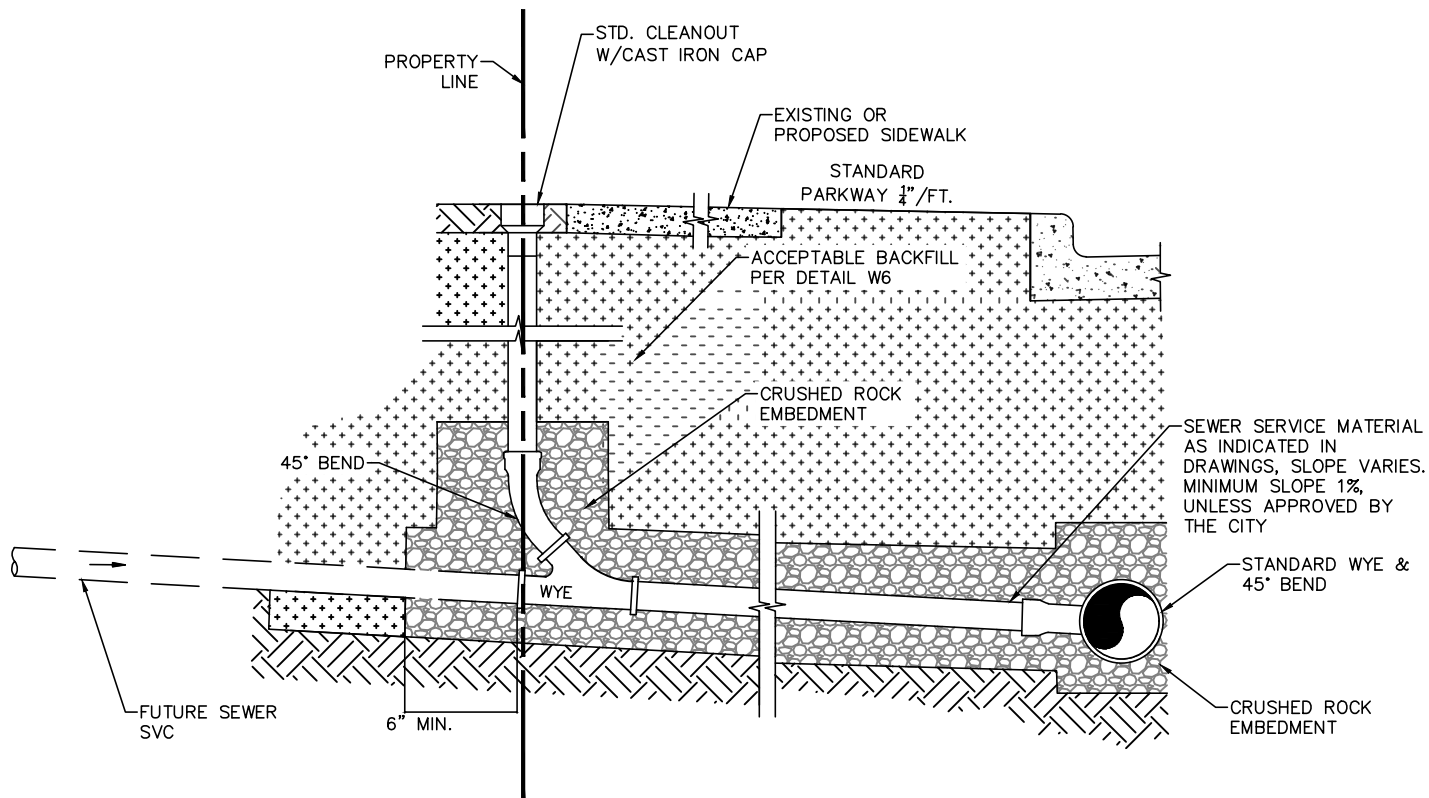
NOTES:

1. THIS DETAIL FOR USE ONLY WHEN NEW MAIN WILL NOT MATE WITH EXISTING MAIN JOINT DUE TO DIFFERENT DIMENSIONS OR MATERIALS AND A MANHOLE IS NOT REQUIRED.
2. A MANHOLE IS REQUIRED AT CHANGE OF PIPE MATERIAL AND/OR SIZE.

NOT TO SCALE

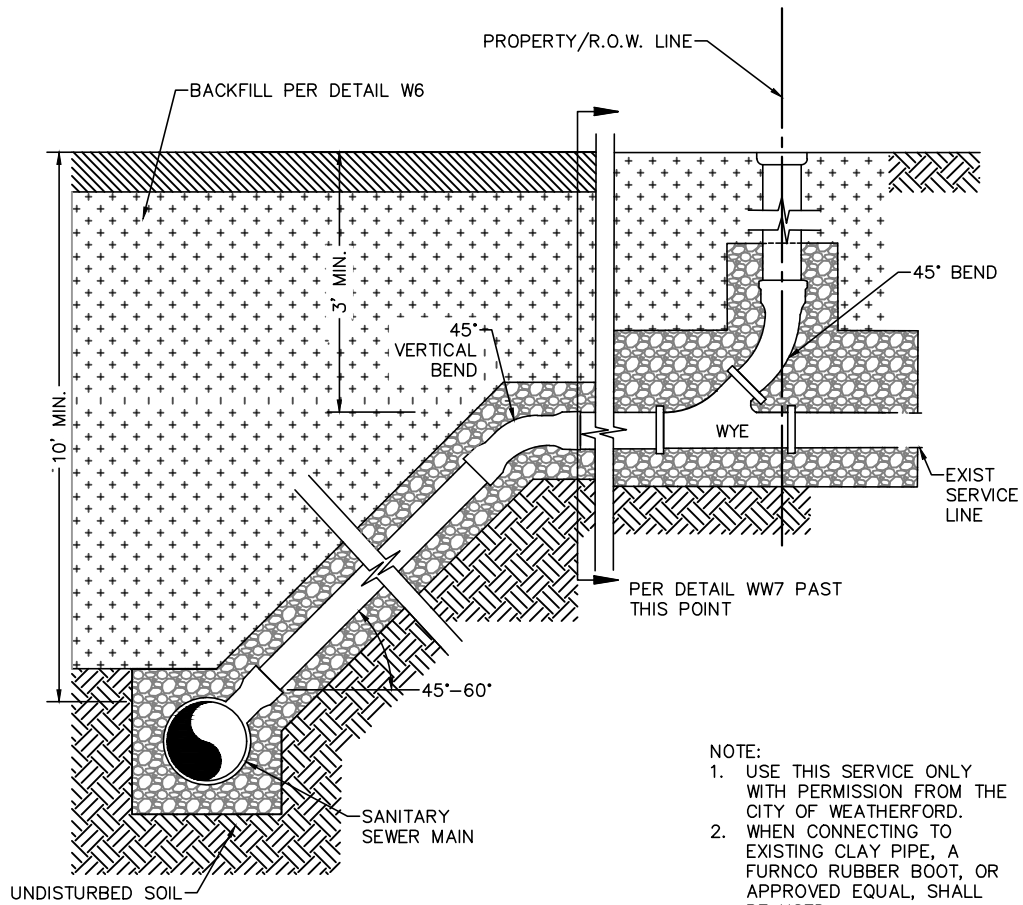
	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		WASTEWATER MANHOLE TIE-IN
	DRAWN BY		
	CITY OF WEATHERFORD		

- NOTES:
- 1. PIPE AND FITTINGS MUST BE SDR-26 PVC AS INDICATED IN THE DRAWINGS.
 - 2. PROVIDE RUBBER SLEEVE COUPLINGS WITH STAINLESS STEEL DOUBLE-BAND REPAIR SLEEVES TO CONNECT TO EXISTING SERVICE. TIGHTEN SLEEVES TO THE TORQUE RECOMMENDED BY THE MANUFACTURER.
 - 3. SEWER SERVICE SHALL INCLUDE ALL APPURTENANCES FROM SEWER MAIN UP TO AND INCLUDING RUBBER SLEEVE COUPLING OR PLUG.
 - 4. CLEANOUTS SHALL BE LOCATED 10' OFFSET FROM CENTER OF LOT ON THE DOWNSTREAM SIDE.
 - 5. WHEN CONNECTING TO EXISTING CLAY PIPE, A FURNCO RUBBER BOOT, OR APPROVED EQUAL, SHALL BE USED.



NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	06/2024		
	DRAWN BY		
CITY OF WEATHERFORD		WASTEWATER LATERAL STANDARD INSTALLATION	WW7



NOT TO SCALE



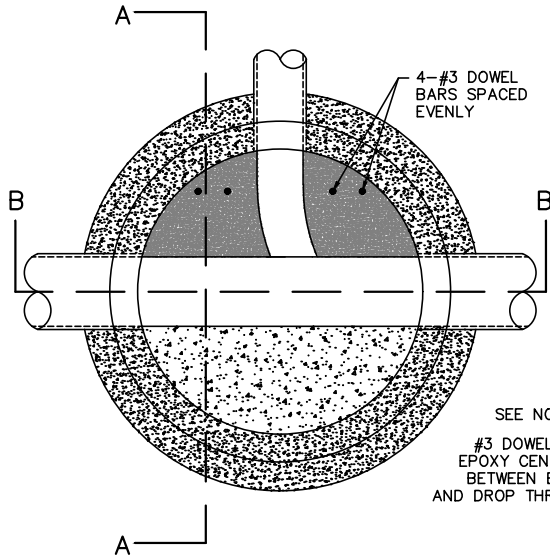
DATE
06/2024
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT

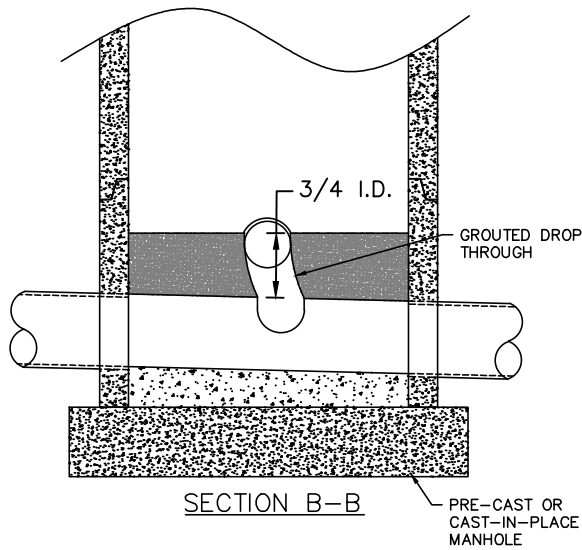
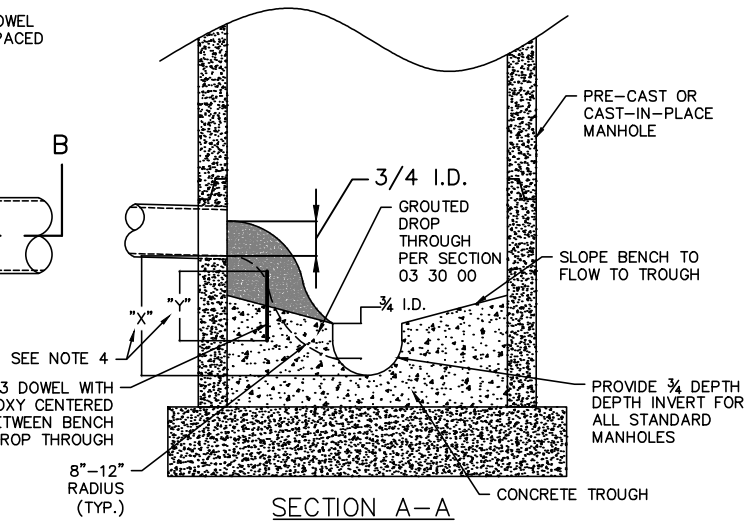
WASTEWATER LATERAL
DEEP INSTALLATION

SHEET. #

WW8



PLAN VIEW



NOTES:

1. DROP THROUGH SHALL BE POURED MONOLITHICALLY WITH CAST-IN-PLACE BENCH, OR DOWELED AND GROUTED TO PRE-CAST BENCH.
2. DROP THROUGH SHALL EXTEND INTO MAIN-LINE TROUGH 1/2 THE INNER DIAMETER OF LATERAL.
3. WHERE LATERAL FLOW-LINE TO MAIN FLOW-LINE IS GREATER THAN 24" AN EXTERNAL DROP SHALL BE REQUIRED.
4. "X" SHALL BE NO MORE THAN 24" FROM FLOW-LINE TO FLOW-LINE. "Y" SHALL BE THE GREATER OF HALF OF "X" OR 6".

NOT TO SCALE

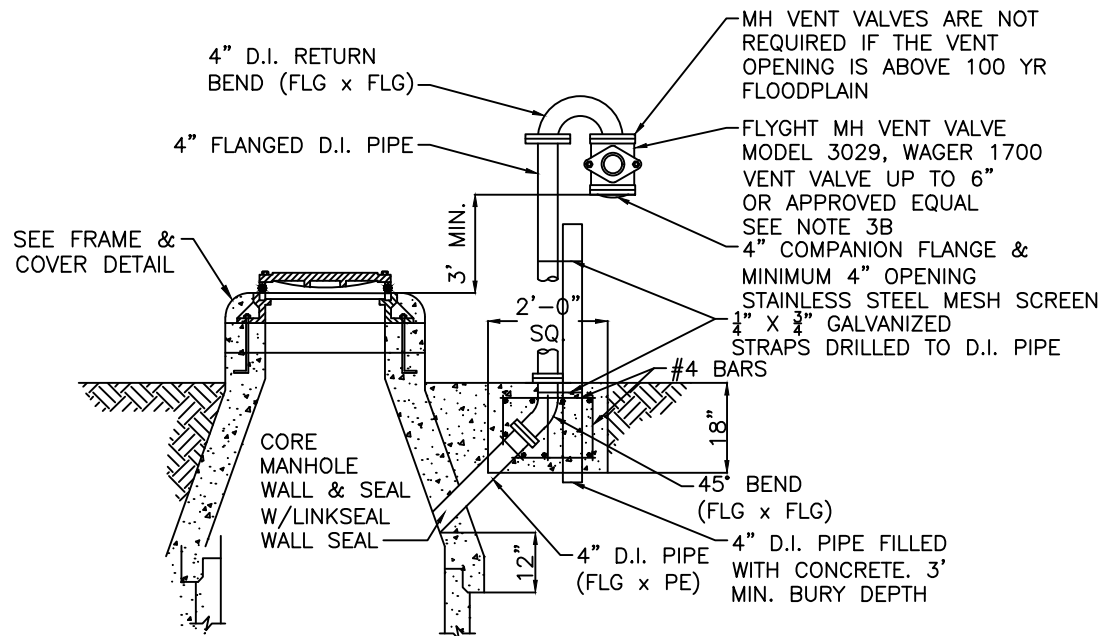


DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

UTILITY DEPARTMENT
WASTEWATER MANHOLE
HYDRAULIC SLIDE

SHEET. #

WW9



NOTES:

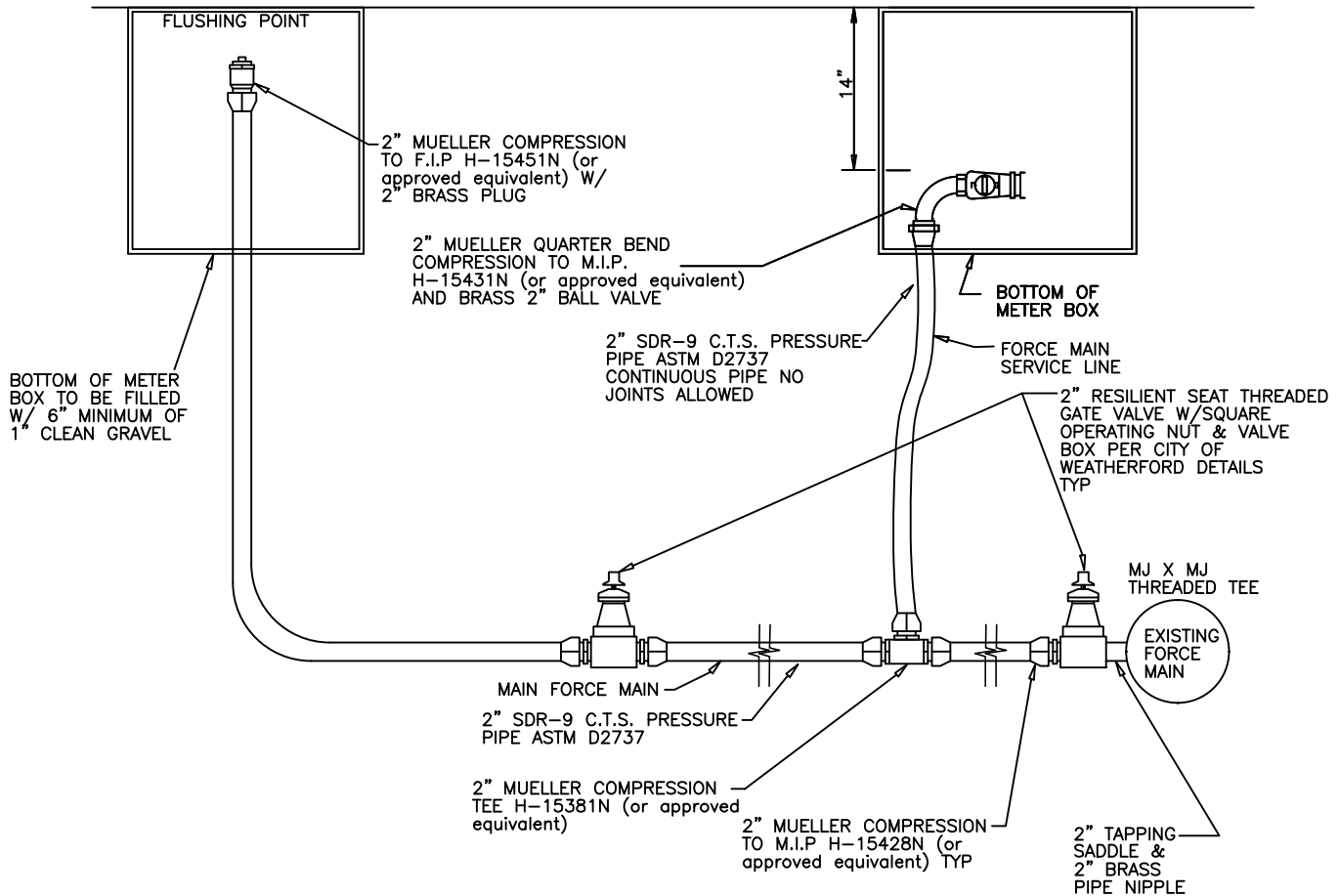
1. DUCTILE IRON PIPE & FITTINGS TO HAVE 40mil POLYETHYLENE INTERIOR COATING.
2. ALL BOLTS & NUTS TO BE 316 STAINLESS STEEL.
3. FINISH COATING:
 - A. WIRE BRUSH TO REMOVE ALL DIRT & CONCRETE AND TO ROUGH UP FINISH.
 - B. APPLY ONE PRIME COAT OF TNEDEC SERIES 37 CHEM PRIME (GRAY) TO 3mils DRY THICKNESS. GIVE SPECIAL ATTENTION AND SECOND COAT TO CORNERS AND BOLTS.
 - C. APPLY ONE FINISH COAT OF TNEDEC SERIES 43-38 ALKYD ALUMINUM TO 2mils DRY THICKNESS.
4. VENT PIPES LONGER THAN 6' TO BE 6"Ø D.I. PIPE AND FITTINGS.

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		WW10
	DRAWN BY	WASTEWATER MANHOLE VENT	
	CITY OF WEATHERFORD		

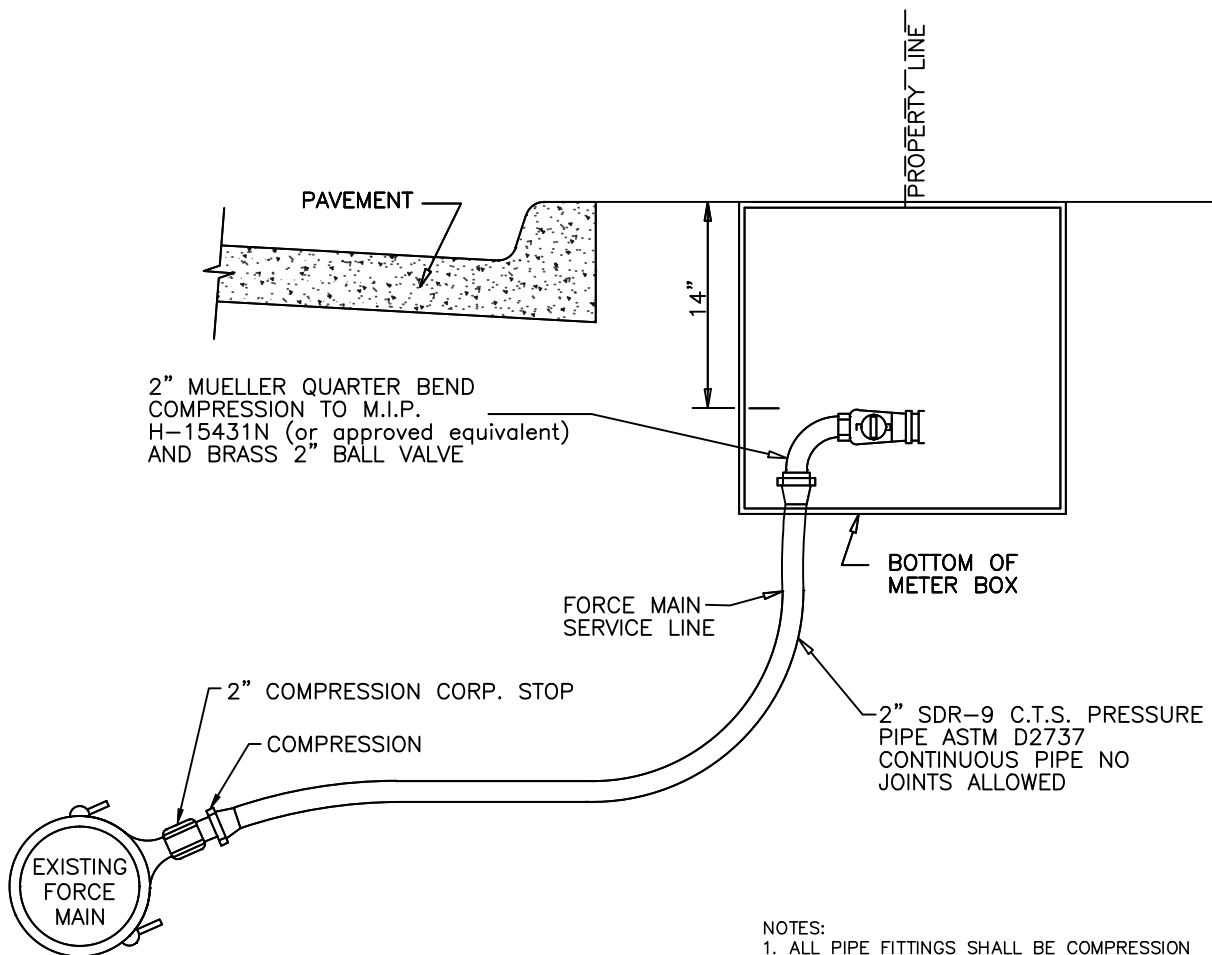
NOTES:

1. ALL PIPE FITTINGS SHALL BE COMPRESSION FITTINGS, STAINLESS STEEL PIPE STIFFENERS REQUIRED.
2. METER BOX FOR SERVICE LINES TO BE INSTALLED AT PROPERTY LINE.
3. METER BOX SHALL NOT BE INSTALLED IN SIDEWALKS OR DRIVEWAYS.
4. METER BOX TO BE FURNISHED BY AND INSTALLED BY CONTRACTOR.
5. METER BOX SHALL BE 18" DIAMETER PVC WITH CAST IRON RING AND LID. DFW PLASTICS DFW1818F-1MBF 63D WFTX OR APPROVED EQUAL.
6. ALL METER CAN LIDS SHALL MARKED AS SEWER.
7. 12 AWG TRACING WIRE ON MAIN AND SERVICES.
8. MAXIMUM OF 10 SERVICE CONNECTIONS
9. THIS DETAIL TO BE USED WITH CITY APPROVAL ONLY.
10. WHEN TAPPING EXISTING OR PVC MAINS, USE EPOXY COATED DUCTILE IRON SADDLES WITH DOUBLE STAINLESS STEELS STRAPS.



NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY	LOW PRESSURE FORCE MAIN 2" LINE SIZE	WW11
	CITY OF WEATHERFORD		



- NOTES:
1. ALL PIPE FITTINGS SHALL BE COMPRESSION FITTINGS, STAINLESS STEEL PIPE STIFFENERS REQUIRED.
 2. METER BOX FOR SERVICE LINES TO BE INSTALLED AT PROPERTY LINE.
 3. METER BOX SHALL NOT BE INSTALLED IN SIDEWALKS OR DRIVEWAYS.
 4. METER BOX TO BE FURNISHED BY AND INSTALLED BY CONTRACTOR.
 5. METER BOX SHALL BE 18" DIAMETER PVC WITH CAST IRON RING AND LID. DFW PLASTICS DFW1818F-1MBF 63D WFTX OR APPROVED EQUAL.
 6. ALL METER CAN LIDS SHALL BE MARKED AS SEWER.
 7. 12 AWG TRACING WIRE ON SERVICES.
 8. THIS DETAIL TO BE USED WITH CITY APPROVAL ONLY.
 9. WHEN TAPPING EXISTING OR PVC MAINS, USE EPOXY COATED DUCTILE IRON SADDLES WITH DOUBLE STAINLESS STEEL STRAPS.
 10. ALL SADDLES AND CORP. STOPS SHALL HAVE CC THREADS.
 11. CORP. STOP SHALL BE MUELLER H-15008N OR APPROVED EQUIVALENT.

NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
CITY OF WEATHERFORD		FORCE MAIN SERVICE CONNECTION	WW12

REMOVE ENTIRE CONE OR TOP
4', WHICHEVER IS DEEPER.
REPLACE WITH COMPACTED
SELECT FILL

PAVEMENT REPAIR IF APPLICABLE

COMPACTED BACKFILL

CLASS "B" CONCRETE
TO A POINT ABOVE
TOP OF PIPE

SAND AND/OR GRAVEL
COMPACTED TO 90%
(95% IN PAVEMENT) OF
THE MAXIMUM STANDARD
PROCTOR DRY DENSITY

1500 PSI CONCRETE PLUG

EXISTING
WASTEWATER LINE

SAND BAG
(TYP)

1500 PSI CONCRETE PLUG

NOT TO SCALE



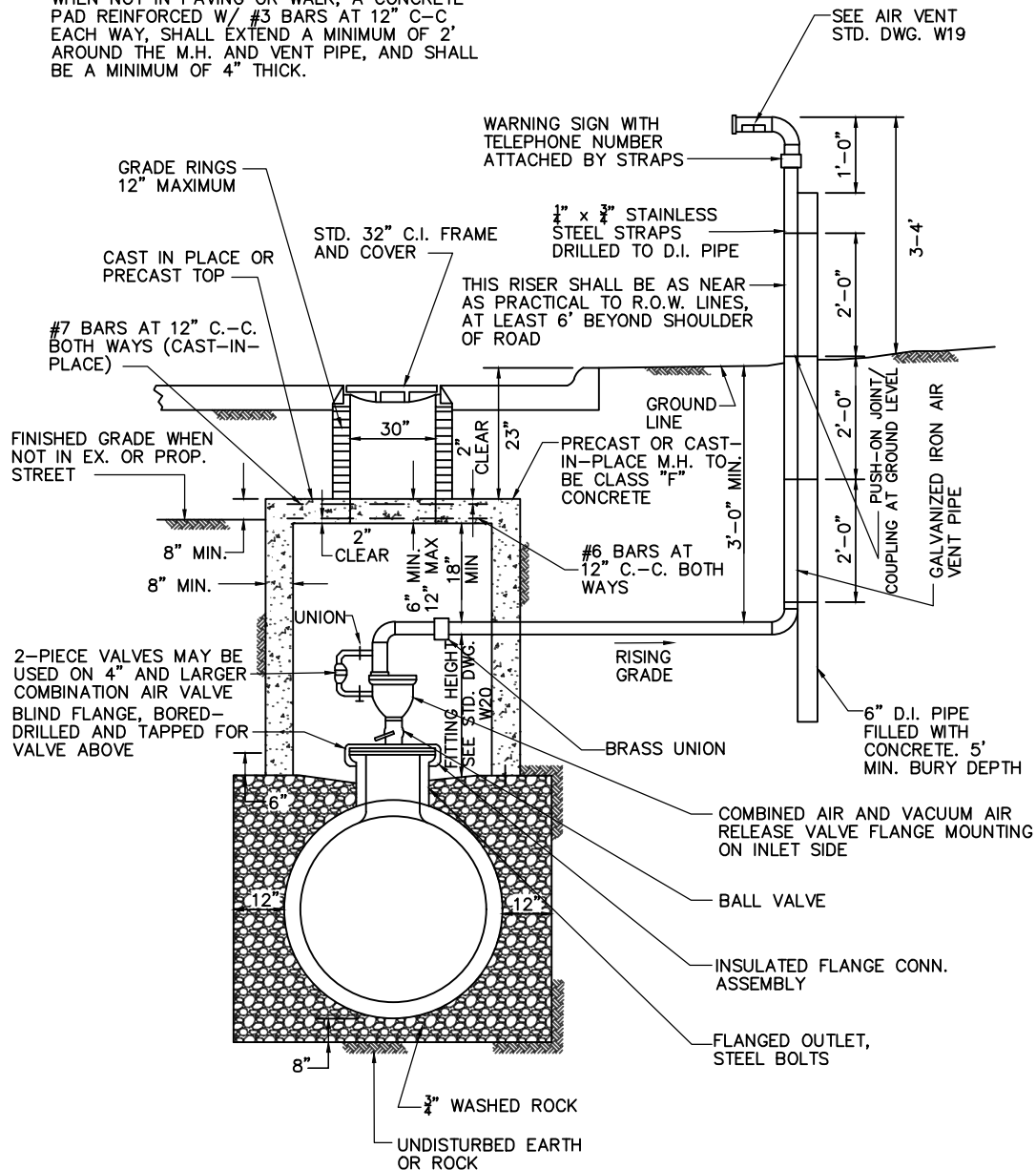
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CITY OF WEATHERFORD	

UTILITY DEPARTMENT

WASTEWATER MANHOLE
ABANDONMENT

SHEET. #
WW13

WHEN NOT IN PAVING OR WALK, A CONCRETE PAD REINFORCED W/ #3 BARS AT 12" C-C EACH WAY, SHALL EXTEND A MINIMUM OF 2' AROUND THE M.H. AND VENT PIPE, AND SHALL BE A MINIMUM OF 4" THICK.



1. VAULT TOP SHALL BE PER MANHOLE FRAME, COVER AND PAD DETAILS AS INDICATED ON CITY DETAILS.
2. MANHOLE LID MAY BE CAST IN MANHOLE TOP WHERE VERTICAL REQUIREMENTS PREVENT THE USE OF RISER RINGS.
3. VAULTS SHALL ONLY BE PRE-CAST MANHOLES.
4. SECURE VALVE TO VAULT WALL WITH STAINLESS STEEL BRACKET BY GRINELL OR APPROVED EQUIV.
5. INLET PIPING, ISOLATION VALVE AND VENT PIPING SHALL BE SAME SIZE AS AIR RELEASE VALVE AS SPECIFIED IN THE DRAWINGS. 3" VALVES SHALL REQUIRE 4" MINIMUM VENT PIPING.
6. PIPE PENETRATION THROUGH VAULT WALL SHALL BE SEALED WITH A NON-SHRINK EPOXY GROUT.
7. WHERE TOP OF OPERATING NUT IS GREATER THAN 7' BELOW RIM, PROVIDE BRACING PER AISC 'A' EDITION '2'.
8. ON 4" AND LARGER VALVE PIECE COMBINATION AIR VALVES, THE OUTLET PIPING OF THE SMALL VALVE SHALL BE VENTED INTO THE SIDE OF THE LARGER VENT PIPE THAT GOES ABOVE GROUND.
9. ALL BELOW GRADE FITTINGS ARE TO BE BRASS.

N.T.S.

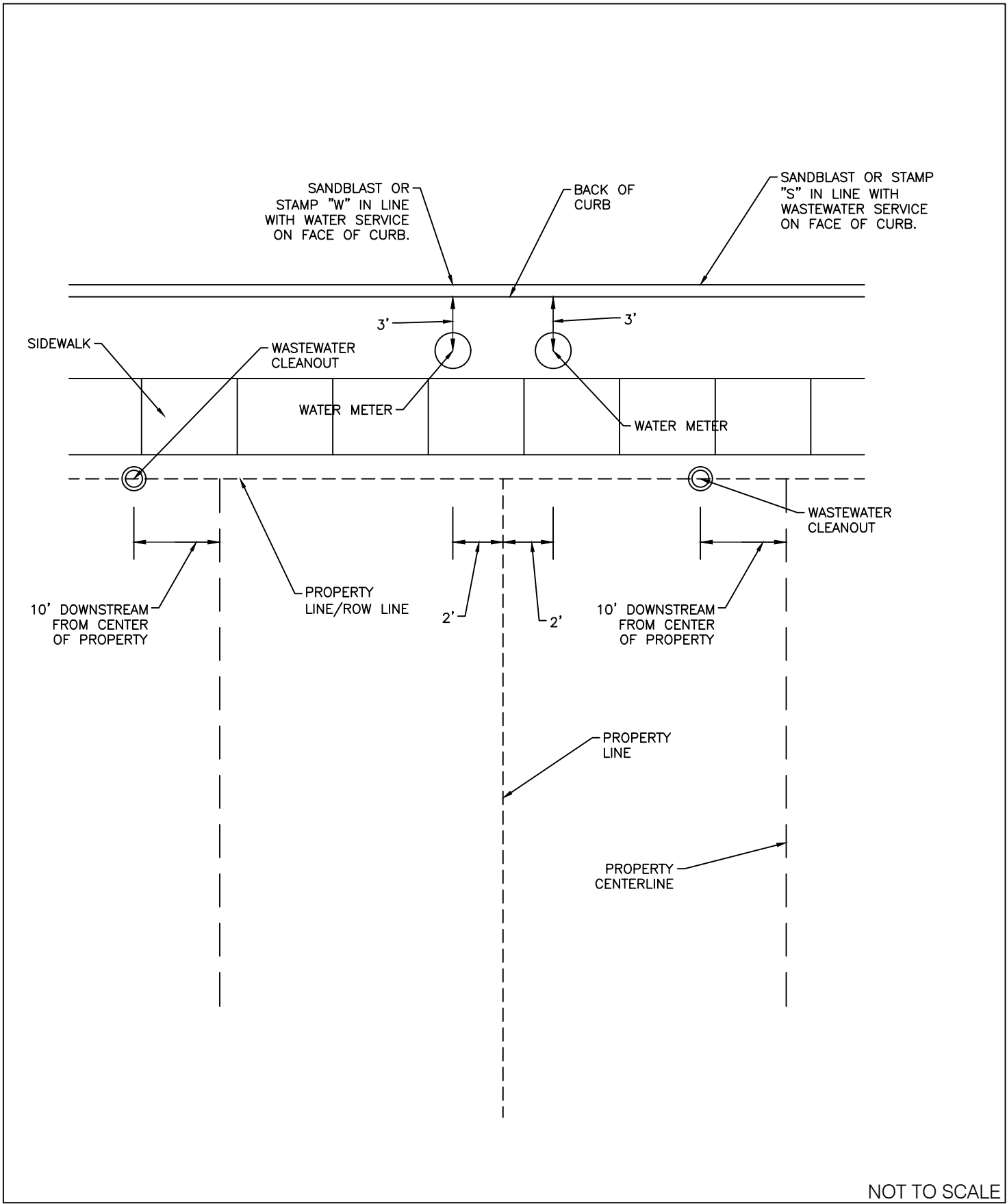
SHEET. #

WASTEWATER COMBINATION AIR VALVE

WW14

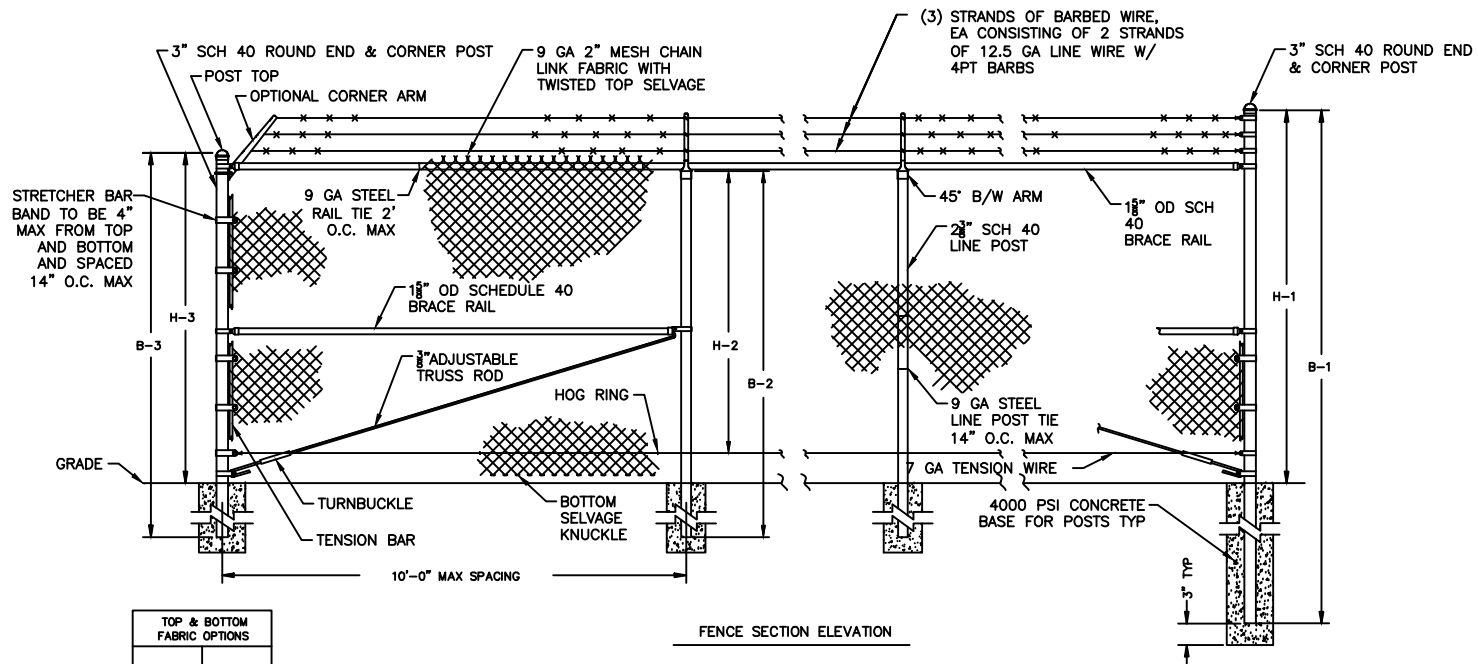


CITY OF WEATHERFORD



NOT TO SCALE

	DATE	UTILITY DEPARTMENT	SHEET. #
	04/2023		W/WW1
	DRAWN BY		
	CITY OF WEATHERFORD	UTILITY SERVICE LOCATIONS	



NOTES:

1. POST HOLE WIDTH TO BE (4)X POST DIAMETER MINIMUM. MINIMUM DEPTH 36".
2. ALL GATE POSTS TO BE 4" SCHEDULE 40.
3. EXTENSION ARMS SHALL BE 12 GA STEEL MINIMUM AND POINT OUTWARD AT 45 DEGREES.
4. ALL FENCE HARDWARE, POST, ETC. SHALL BE GALVANIZED STEEL UNLESS SPECIFIED OTHERWISE.
5. TENSION WIRE TO BE INSTALLED 4" UP FROM BOTTOM OF FABRIC.
6. TENSION AND BRACE BANDS SHALL BE 12 GA MINIMUM THICKNESS, MINIMUM WIDTH OF 3" AND SECURED WITH 3/8" CARRIAGE BOLT.
7. TENSION BARS SHALL BE 3/8" THICK ONE PIECE BARS, 2" SHORTER THAN FABRIC WIDTH AND 3/4" WIDTH.

FENCE HEIGHT NOM HT INCLUDING BARBED WIRE	UPRIGHT END & CORNER POSTS		LINE POSTS		CORNER POSTS WITH CORNER ARM	
	B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE	B-3 BAR LENGTH	H-3 HEIGHT ABOVE GRADE
7'-0" [2134MM]	10'-0" [3048MM]	7'-0 5/8" [2150MM]	8'-8" [2642MM]	5'-8 7/8" [1749MM]	9'-0" [2743MM]	6'-0 5/8" [1845MM]
8'-0" [2438MM]	11'-0" [3353MM]	8'-0 5/8" [2454MM]	9'-8" [2946MM]	6'-8 7/8" [2054MM]	10'-0" [3048MM]	7'-0 5/8" [2150MM]
9'-0" [2743MM]	12'-0" [3658MM]	9'-0 5/8" [2759MM]	10'-8" [3251MM]	7'-8 7/8" [2359MM]	11'-0" [3353MM]	8'-0 5/8" [2454MM]
10'-0" [3048MM]	13'-0" [3962MM]	10'-0 5/8" [3064MM]	11'-8" [3556MM]	8'-8 7/8" [2664MM]	12'-0" [3658MM]	9'-0 5/8" [2759MM]
11'-0" [3353MM]	14'-0" [4267MM]	11'-0 5/8" [3369MM]	12'-8" [3861MM]	9'-8 7/8" [2969MM]	13'-0" [3962MM]	10'-0 5/8" [3064MM]
12'-0" [3658MM]	15'-0" [4572MM]	12'-0 5/8" [3674MM]	13'-8" [4166MM]	10'-8 7/8" [3273MM]	14'-0" [4267MM]	11'-0 5/8" [3369MM]

NOT TO SCALE



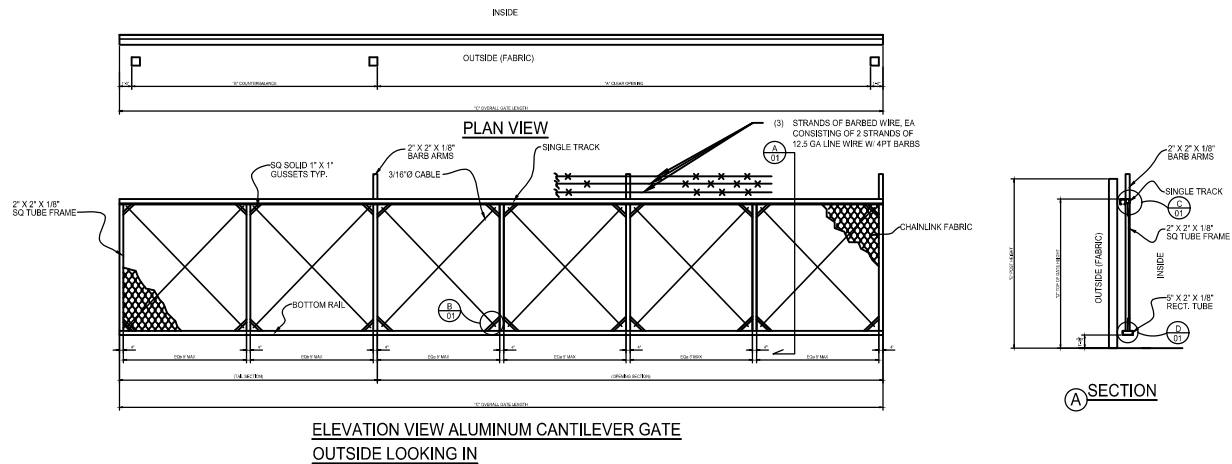
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UTILITY DEPARTMENT

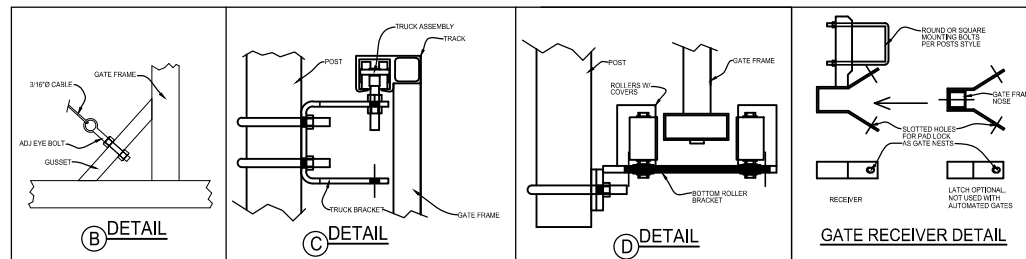
CHAIN LINK FENCE

SHEET. #

G1



CRITICAL DIMENSIONS			
	DESCRIPTION	FORMULA	DIMENSION
"A"	CLEAR OPENING	A	
"B"	COUNTERBALANCE	A/2	
"C"	OVERALL GATE LENGTH	A + B + 12"	
"D"	TOP OF GATE HEIGHT	D	
"E"	POST HEIGHT	E	
ADJOINING FENCE HEIGHT			
BARB ARMS REQUIRED		YES	NO
GATE STORAGE IN OPEN POSITION (OUTSIDE LOOKING IN)		LEFT (SHOWN)	RIGHT



NOT TO SCALE

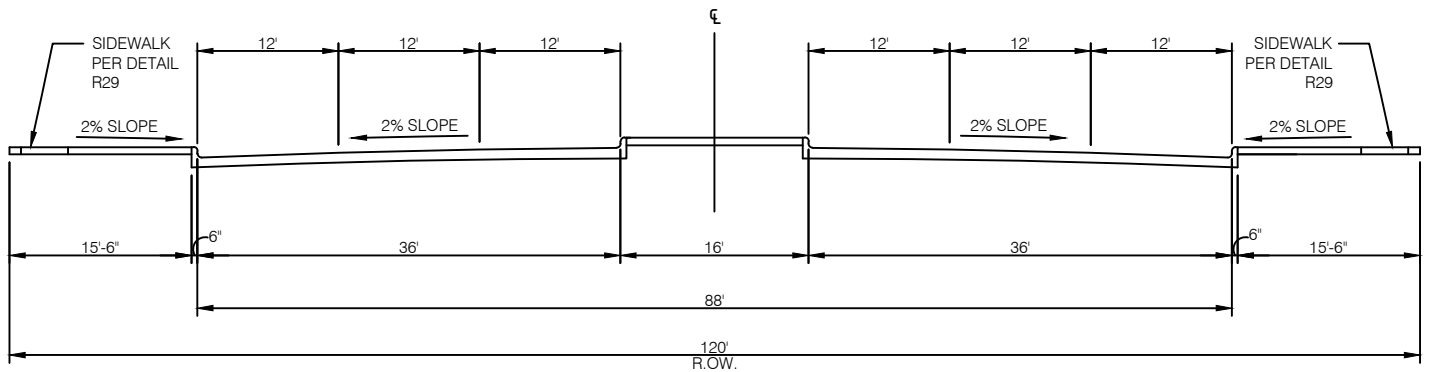


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UTILITY DEPARTMENT
ALUMINUM CANTILEVER GATE

SHEET. #

G2

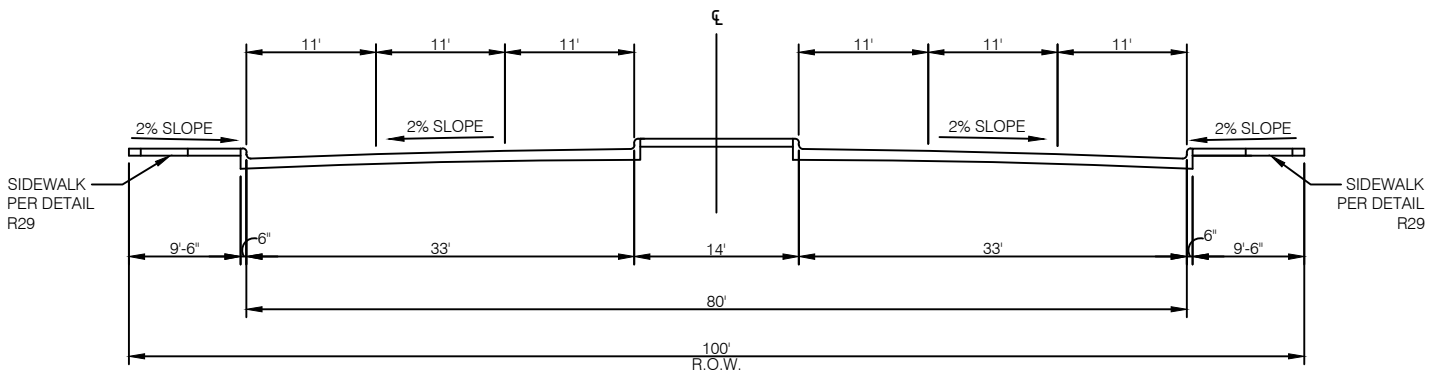


1

TYPE 'AA' - MAJOR ARTERIAL

NOT TO SCALE

NOTE: SEE PAVEMENT DETAIL SHEET
FOR STREET CONSTRUCTION
SPECIFICATIONS



2

TYPE 'A' - MAJOR ARTERIAL

NOT TO SCALE



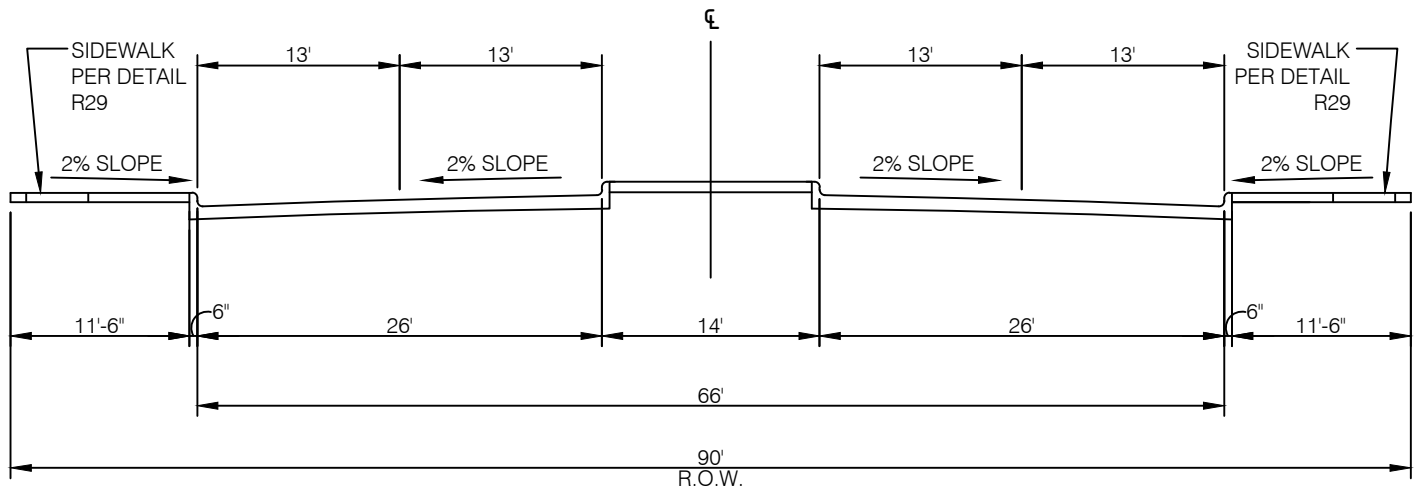
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PUBLIC WORKS DEPARTMENT

MAJOR ARTERIAL STREET SECTION
DETAILS

SHEET. #

R1

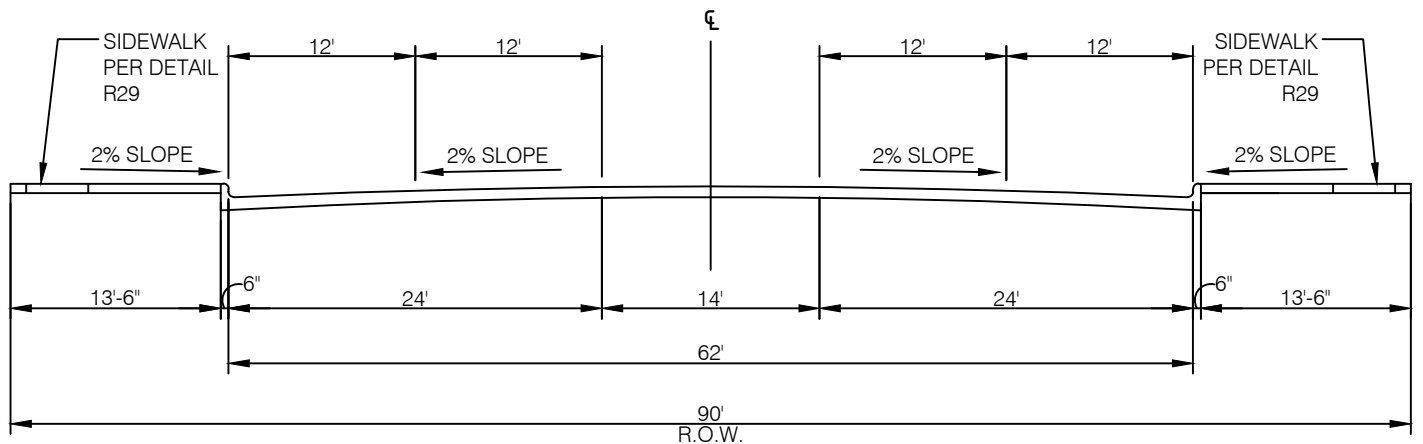


1

TYPE 'B' - MINOR ARTERIAL

NOT TO SCALE

NOTE: SEE PAVEMENT DETAIL SHEET
FOR STREET CONSTRUCTION
SPECIFICATIONS



2

TYPE 'B5' - MINOR ARTERIAL COMMERCIAL

NOT TO SCALE



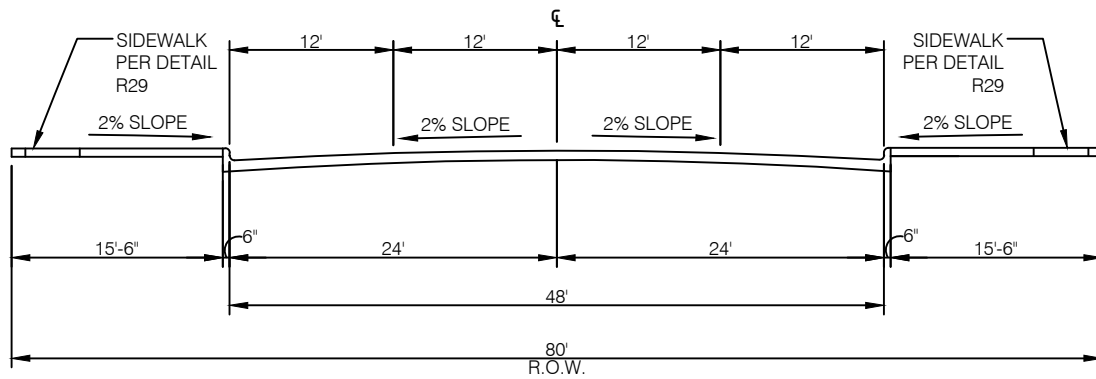
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PUBLIC WORKS DEPARTMENT

MINOR ARTERIAL STREET SECTION
DETAILS

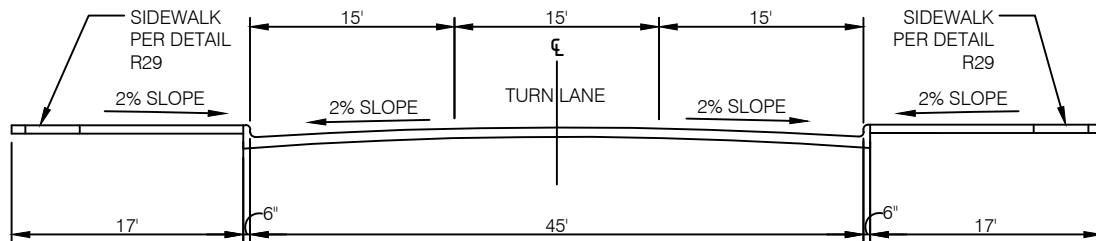
SHEET. #

R2



1 TYPE 'C' - MAJOR COLLECTOR

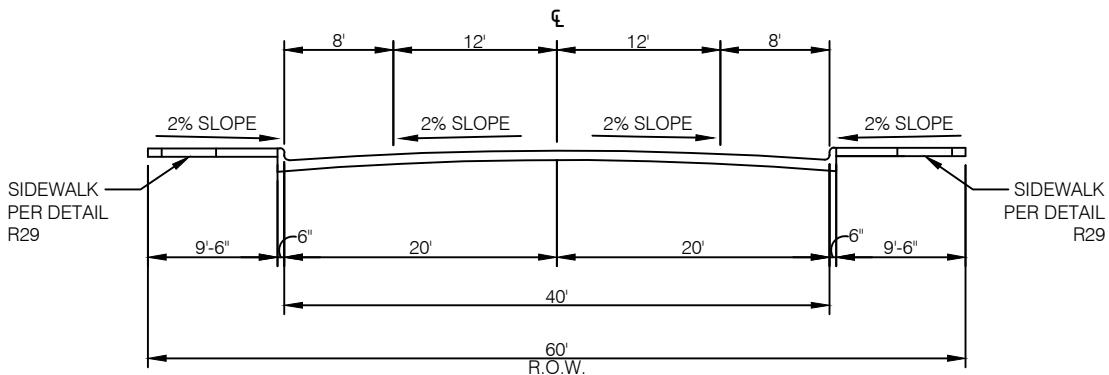
NOT TO SCALE



2 TYPE 'C3' - MAJOR COLLECTOR

NOT TO SCALE

NOTE: SEE PAVEMENT DETAIL SHEET
FOR STREET CONSTRUCTION
SPECIFICATIONS



3 TYPE 'D' - MINOR COLLECTOR

NOT TO SCALE



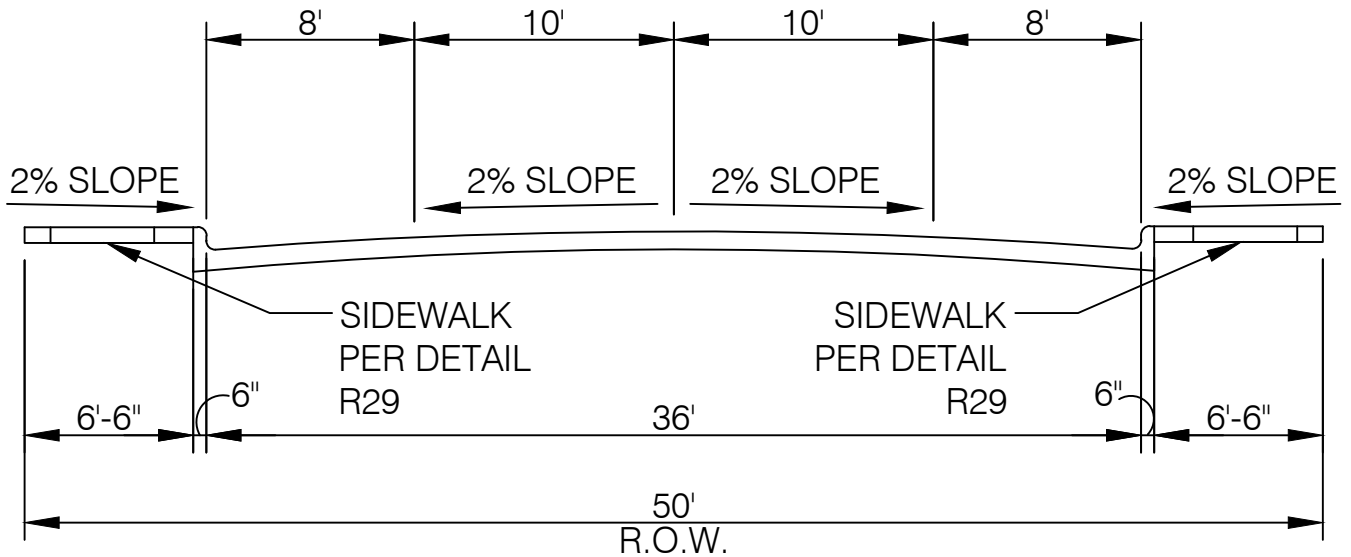
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PUBLIC WORKS DEPARTMENT

COLLECTOR STREET SECTION
DETAILS

SHEET. #

R3

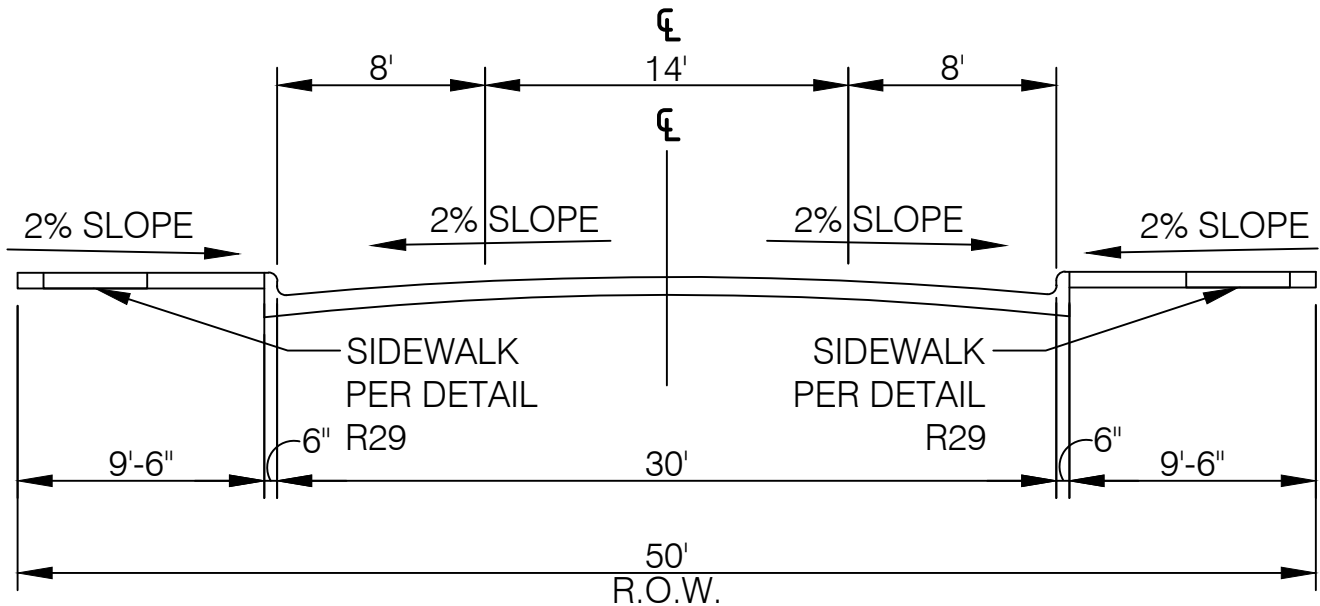


1

RESIDENTIAL COLLECTOR

NOT TO SCALE

NOTE: SEE PAVEMENT DETAIL SHEET
FOR STREET CONSTRUCTION
SPECIFICATIONS



2

LOCAL 'A' - RESIDENTIAL

NOT TO SCALE



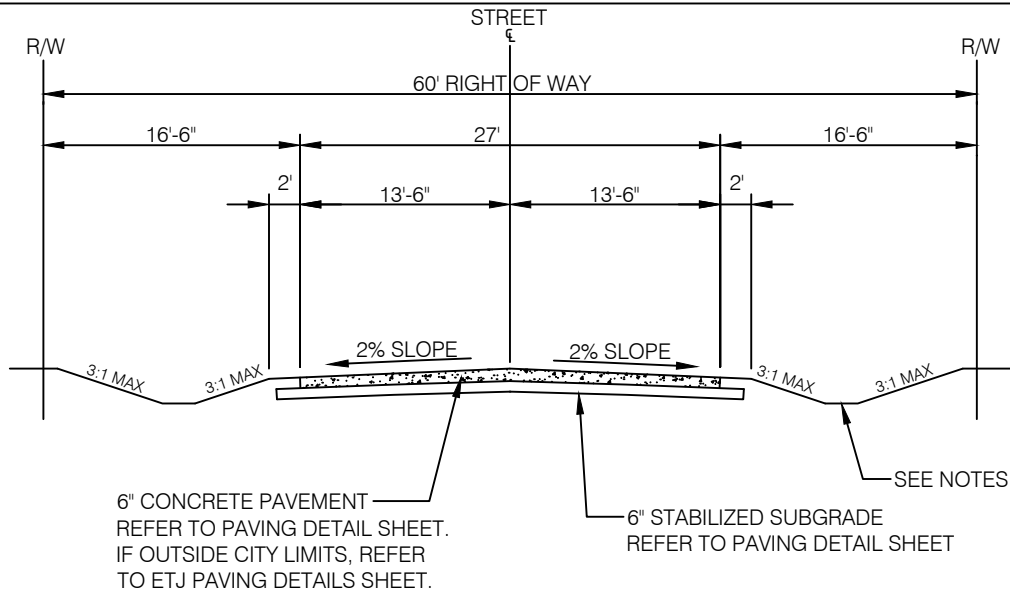
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LOCAL STREET SECTION DETAILS

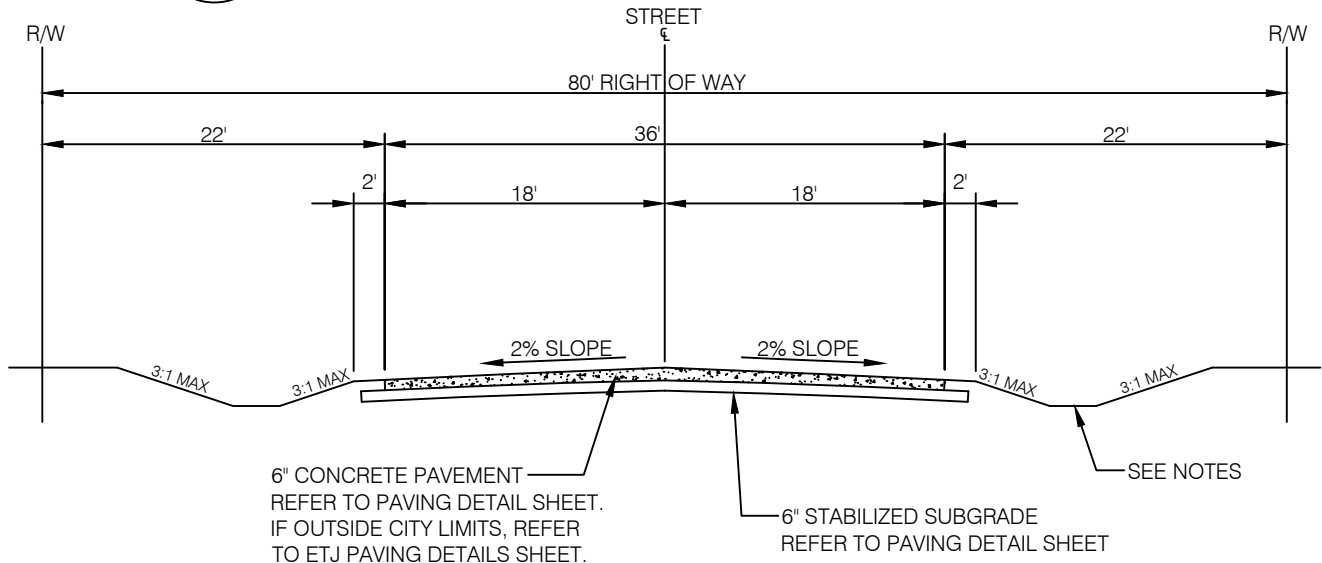
SHEET. #

R4



1 RURAL LOCAL SECTION

NOT TO SCALE



2 RURAL COLLECTOR SECTION

NOT TO SCALE

ROADSIDE DRAINAGE CHANNEL/DITCH NOTES:

1. TYPICAL DITCH SECTION - ACTUAL DRAINAGE CHANNEL DITCH SHALL BE DESIGNED TO MEET CURRENT CITY STORM WATER DESIGN MANUAL REQUIREMENTS.
2. ADDITIONAL RIGHT-OF-WAY AND/OR EASEMENTS MAY BE REQUIRED TO ACCOMMODATE DRAINAGE DITCH DESIGN.
3. DRAINAGE DITCH SIDE SLOPES SHALL NOT BE STEEPER THAN 3:1 WITHOUT SPECIAL CONSIDERATION. DITCHES PROPOSED STEEPER THAN 3:1 SHALL BE CONSTRUCTED FOR SLOPE STABILITY BASED ON A DESIGN AND GEOTECHNICAL REPORT PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS.
4. DRAINAGE DITCHES SHALL BE FULLY STABILIZED WITH ALL PROPOSED DESIGN MEASURES, INCLUDING VEGETATION, PRIOR TO DEVELOPMENT ACCEPTANCE.
5. GRASS-LINED DRAINAGE DITCHES SHALL HAVE A MAXIMUM DESIGN VELOCITY OF 6.0 FEET PER SECOND (FT/S) AND A MINIMUM GRADE SLOPE OF 1.0 PERCENT.
6. DRAINAGE DITCHES DESIGNED WITH VELOCITIES EXCEEDING 6.0 FT/S SHALL REQUIRE EROSION CONTROL COUNTERMEASURES APPROVED BY PUBLIC WORKS. MAXIMUM VELOCITY ALLOWED IS 10 FT/S.
7. DRIVEWAY DRAINAGE CULVERT SIZES, MATERIAL, AND PROPOSED END TREATMENTS SHALL BE REFERENCED ON THE DEVELOPMENT DRAINAGE PLAN FOR EACH LOT AND SUBMITTED FOR APPROVAL TO PUBLIC WORKS. SAFETY END TREATMENTS OR CONCRETE HEADWALLS ARE REQUIRED BOTH UPSTREAM AND DOWNSTREAM OF ALL DRIVEWAY CULVERTS.
8. DRAINAGE CULVERTS UNDER ALL ROADWAYS SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP), CORRUGATED METAL PIPE (CMP), OR HDPE WITH CONCRETE HEADWALLS UPSTREAM AND DOWNSTREAM. CONCRETE RIP-RAP SHALL BE INSTALLED UPSTREAM OF THE DRAINAGE STRUCTURE. WHERE ADEQUATE COVER IS NOT AVAILABLE OVER PROPOSED RCP, CLASS IV RCP WILL BE REQUIRED FOR TPW APPROVAL.
9. ALL APPLICABLE TEMPORARY EROSION CONTROLS, TO INCLUDE SILT FENCE AND INLET PROTECTION, SHALL BE IN PLACE AS SHOWN IN APPROVED DESIGN DRAWINGS BEFORE CONSTRUCTION CAN COMMENCE.



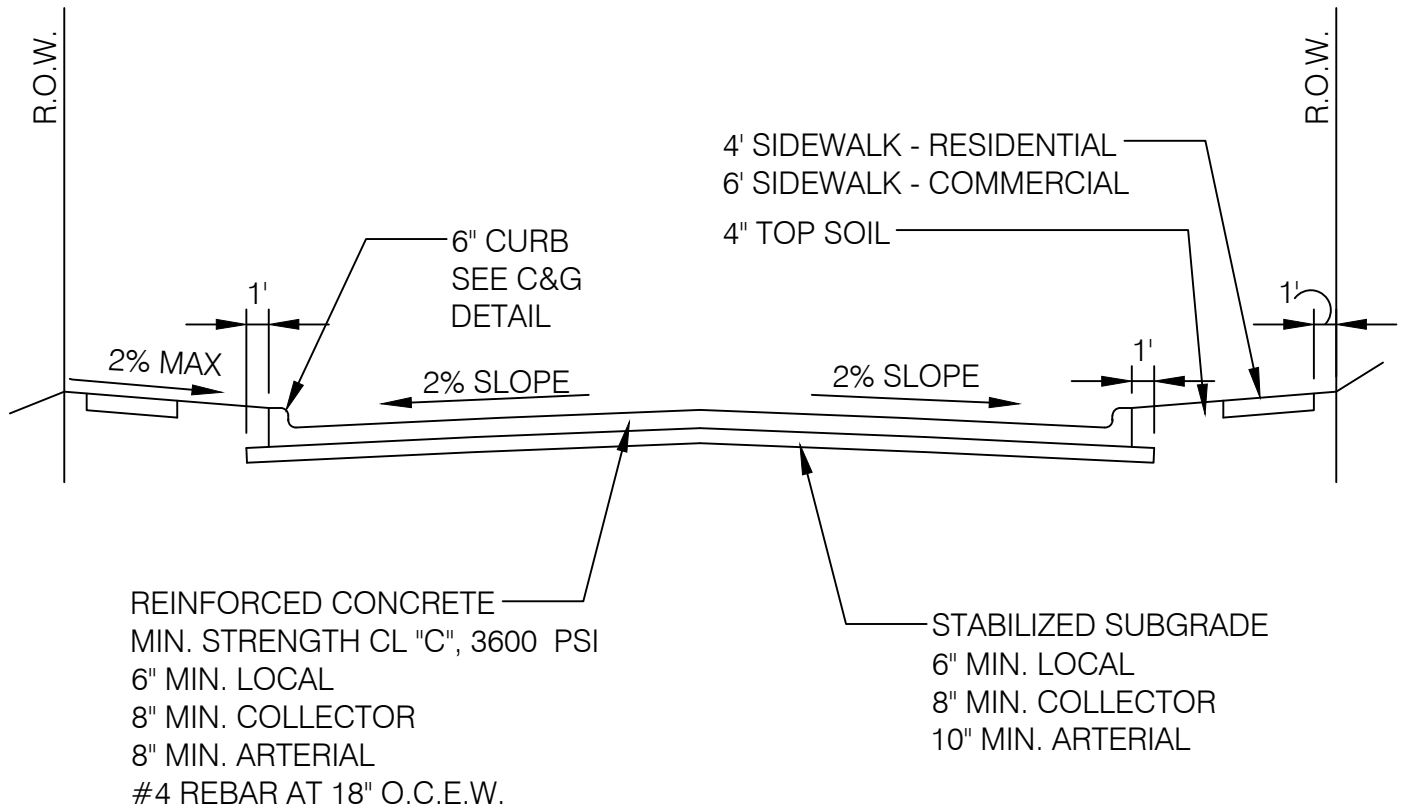
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PUBLIC WORKS DEPARTMENT

RURAL ROAD SECTION RESIDENTIAL
1 ACRE LOT SUBDIVISION

SHEET. #

R5



NOTES:

1. A GEOTECHNICAL REPORT SHALL BE PROVIDED FOR SUBGRADE DESIGN. THE GEOTECHNICAL REPORT SHALL BE A RECOMMENDATION ONLY TO DETERMINE IF ANY ADDITIONAL SOIL STABILIZATION IS REQUIRED. REGARDLESS OF THE PAVEMENT TYPE TO BE CONSTRUCTED, ALL SUBBASE MATERIALS SHALL BE MODIFIED BY EITHER LIME STABILIZATION OR CEMENT STABILIZATION PER MINIMUM REQUIREMENTS AS SPECIFIED. PUBLIC WORKS SHALL MAKE THE FINAL DETERMINATION REGARDING SUBGRADE PREPARATION IF DIFFERENT SOIL CONDITIONS ARE DISCOVERED DURING CONSTRUCTION.
2. LIME STABILIZED SUBGRADE IS REQUIRED WHEN $PI \geq 15$ AT 6% BY WEIGHT (27LBS/SY MIN.)
3. PORTLAND CEMENT STABILIZED SUBGRADE IS REQUIRED WHEN $PI < 15$ AT 5% BY WEIGHT (26LBS/SY MIN.)
4. CONCRETE PAVEMENT SHALL BE MACHINE PLACED EITHER BY MECHANICAL VIBRATORY SCREED OR SLIP FORM PAVER UNLESS OTHERWISE APPROVED BY CITY.
5. REINFORCEMENT REBAR ON CONCRETE PAVEMENTS SHALL BE AMERICAN MADE.
6. ASPHALT PAVEMENTS ARE NOT ALLOWED UNLESS APPROVED BY THE CITY ENGINEER.
7. PAVEMENT IMPROVEMENTS ADJACENT TO EXISTING CITY STREETS MAY REQUIRE ALTERNATE PAVING DESIGN AS APPROVED BY DIRECTOR OF PUBLIC WORKS. PAVEMENT IMPROVEMENTS ADJACENT TO CITY STREETS SHALL BE APPROVED BY PUBLIC WORKS PRIOR TO CONSTRUCTION.
8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF WEATHERFORD AND THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G."
9. VARIATIONS FROM THIS DETAIL ARE NOT ALLOWED UNLESS APPROVED BY THE CITY ENGINEER.

1

TYPICAL PAVEMENT SECTION

NOT TO SCALE



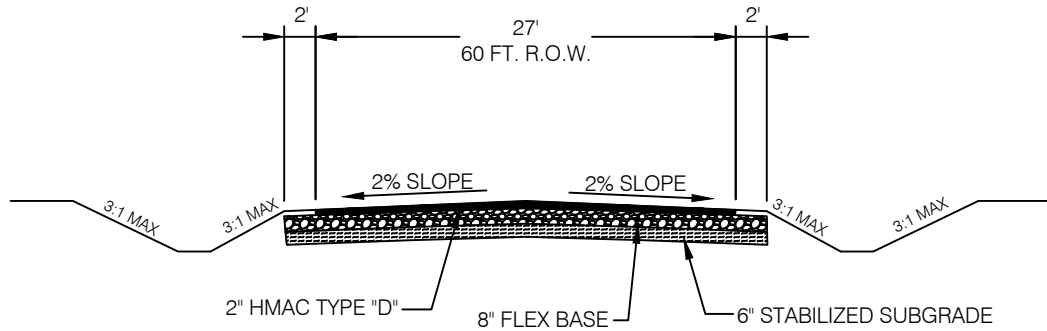
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PUBLIC WORKS DEPARTMENT

PAVEMENT DETAIL

SHEET. #

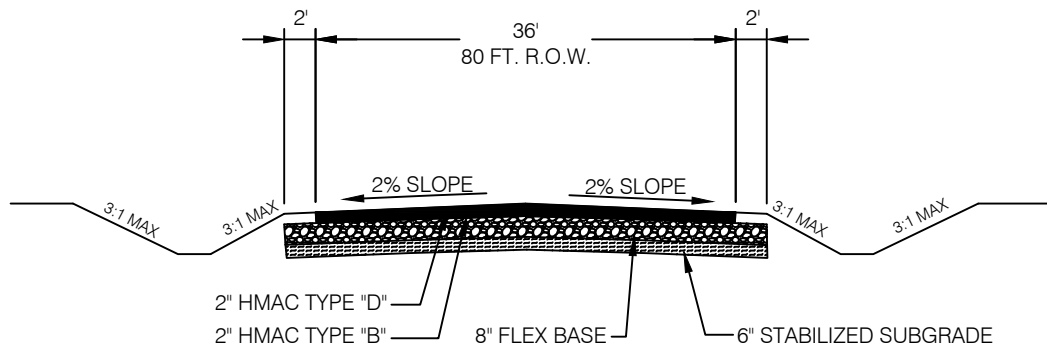
R6



1

LOCAL - RURAL PAVEMENT DETAIL WITHIN E.T.J.

NOT TO SCALE



2

COLLECTOR - RURAL PAVEMENT DETAIL WITHIN E.T.J.

NOT TO SCALE

NOTES:

- A SOIL INVESTIGATION FOR SUBGRADE DESIGN SHALL BE CONDUCTED BY A GEOTECHNICAL ENGINEER TO DETERMINE IF ANY SOIL STABILIZATION IS REQUIRED.
- FOR DETAILS ON PLACEMENT OF ASPHALT PAVEMENT AND BASE COURSE REFER TO DIVISION 300 OF "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION-NORTH CENTRAL TEXAS," LATEST EDITION.
- BASE COURSE SHALL BE COMPACTED TO 95% STANDARD PROCTOR WITH A MOISTURE CONTENT WITHIN MINUS 2 TO PLUS 4 PERCENT OPTIMUM REFER TO N.C.T.C.O.G.
- DEVELOPER SHALL SUBMIT COPIES OF SOIL REPORTS, COMPACTION REPORTS, AND INSPECTION REPORTS TO CITY INSPECTOR FOR REVIEW AND APPROVAL THROUGHOUT CONSTRUCTION. ALL REPORTS SHALL BE PERFORMED BY AN APPROVED LICENSED GEOTECHNICAL ENGINEER.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF WEATHERFORD, AND LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION-NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G."
- REFER TO "RURAL ROAD SECTION" DETAIL SHEET FOR DRAINAGE CHANNEL/DITCH NOTES.



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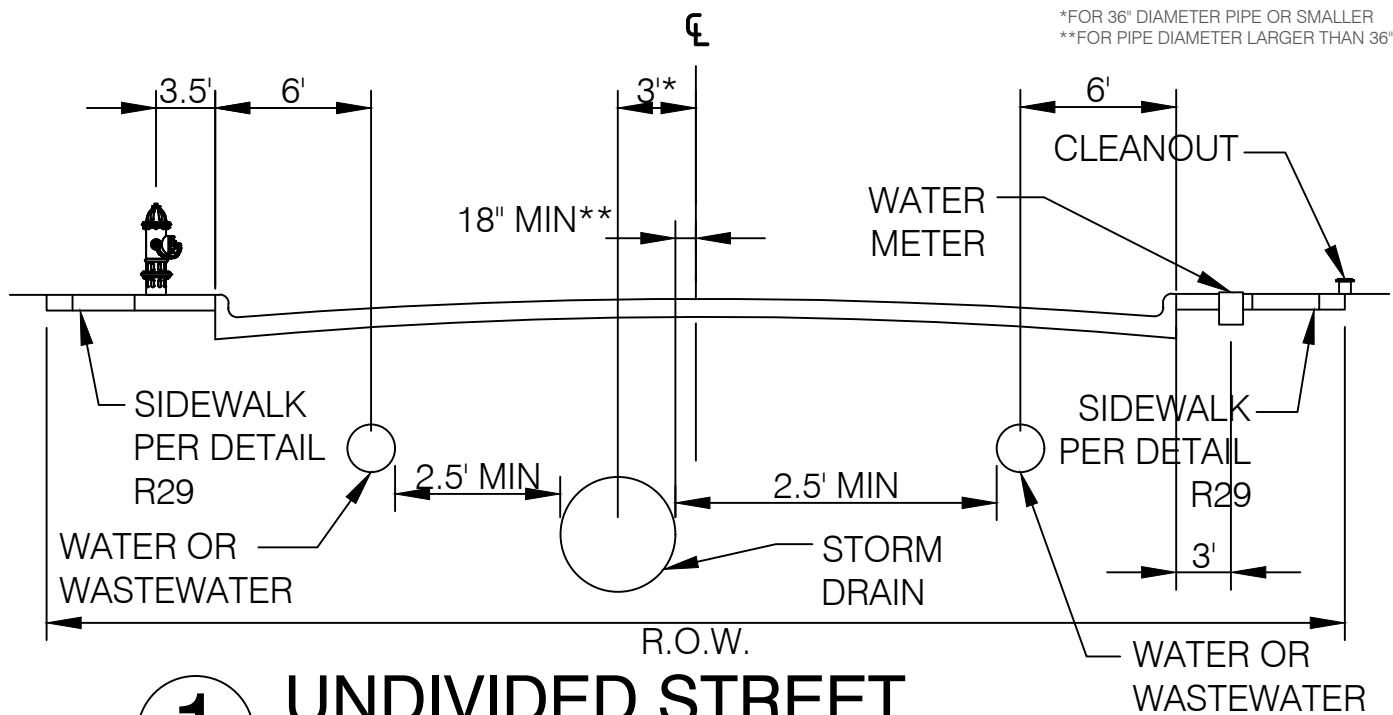
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PUBLIC WORKS DEPARTMENT

RURAL PAVEMENT DETAIL WITHIN EXTRA
TERRITORIAL JURISDICTION (E.T.J.)

SHEET. #

R7



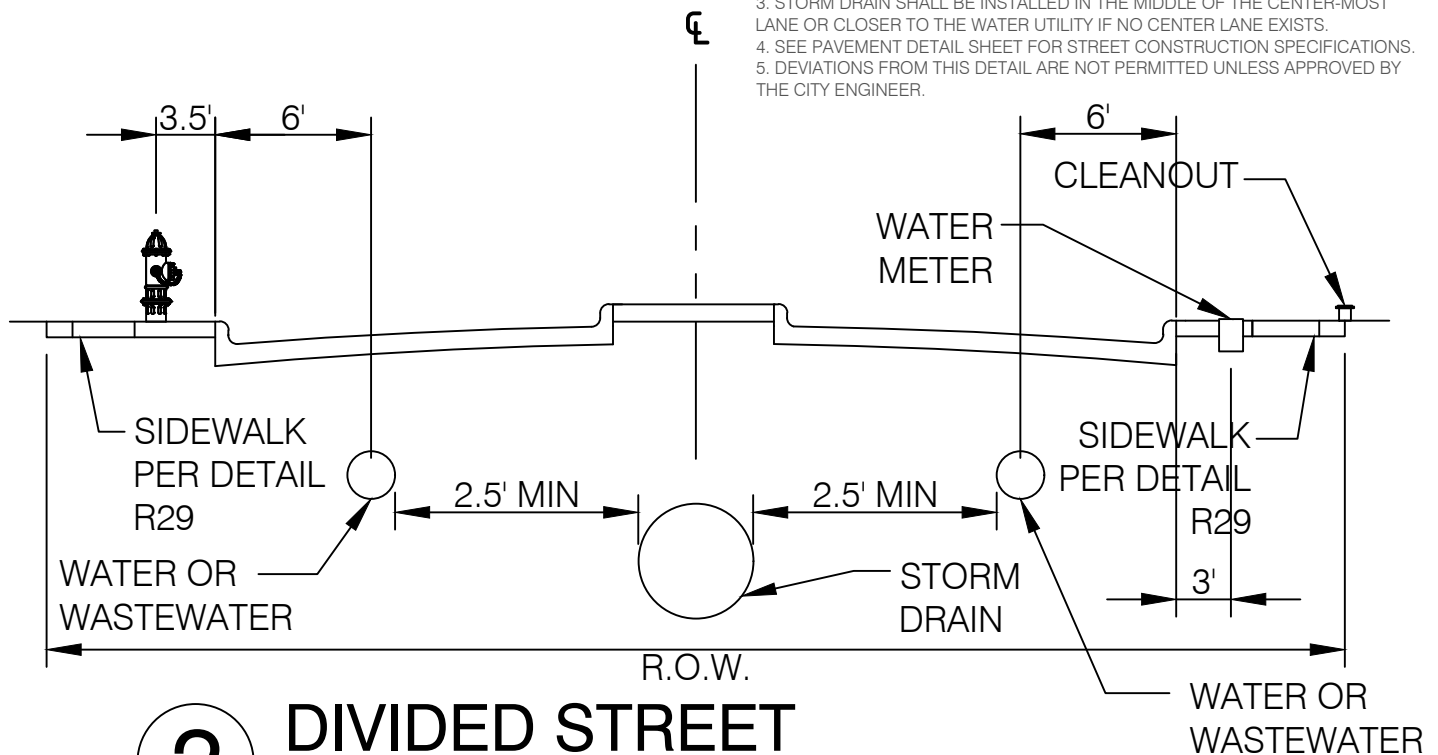
1

UNDIVIDED STREET

NOT TO SCALE

NOTES:

1. THERE SHALL BE A MINIMUM VERTICAL SEPARATION OF 6" BETWEEN STORM DRAIN AND WATER/WASTEWATER UTILITIES.
2. IF WATER/WASTEWATER UTILITIES CROSS BELOW STORM DRAIN, THE WATER/WASTEWATER LINES SHALL BE CASED IN STEEL. THE CASING SHALL EXTEND TO AT LEAST 5' BEYOND THE OUTSIDE EDGE OF THE STORM DRAIN.
3. STORM DRAIN SHALL BE INSTALLED IN THE MIDDLE OF THE CENTER-MOST LANE OR CLOSER TO THE WATER UTILITY IF NO CENTER LANE EXISTS.
4. SEE PAVEMENT DETAIL SHEET FOR STREET CONSTRUCTION SPECIFICATIONS.
5. DEVIATIONS FROM THIS DETAIL ARE NOT PERMITTED UNLESS APPROVED BY THE CITY ENGINEER.



2

DIVIDED STREET

NOT TO SCALE



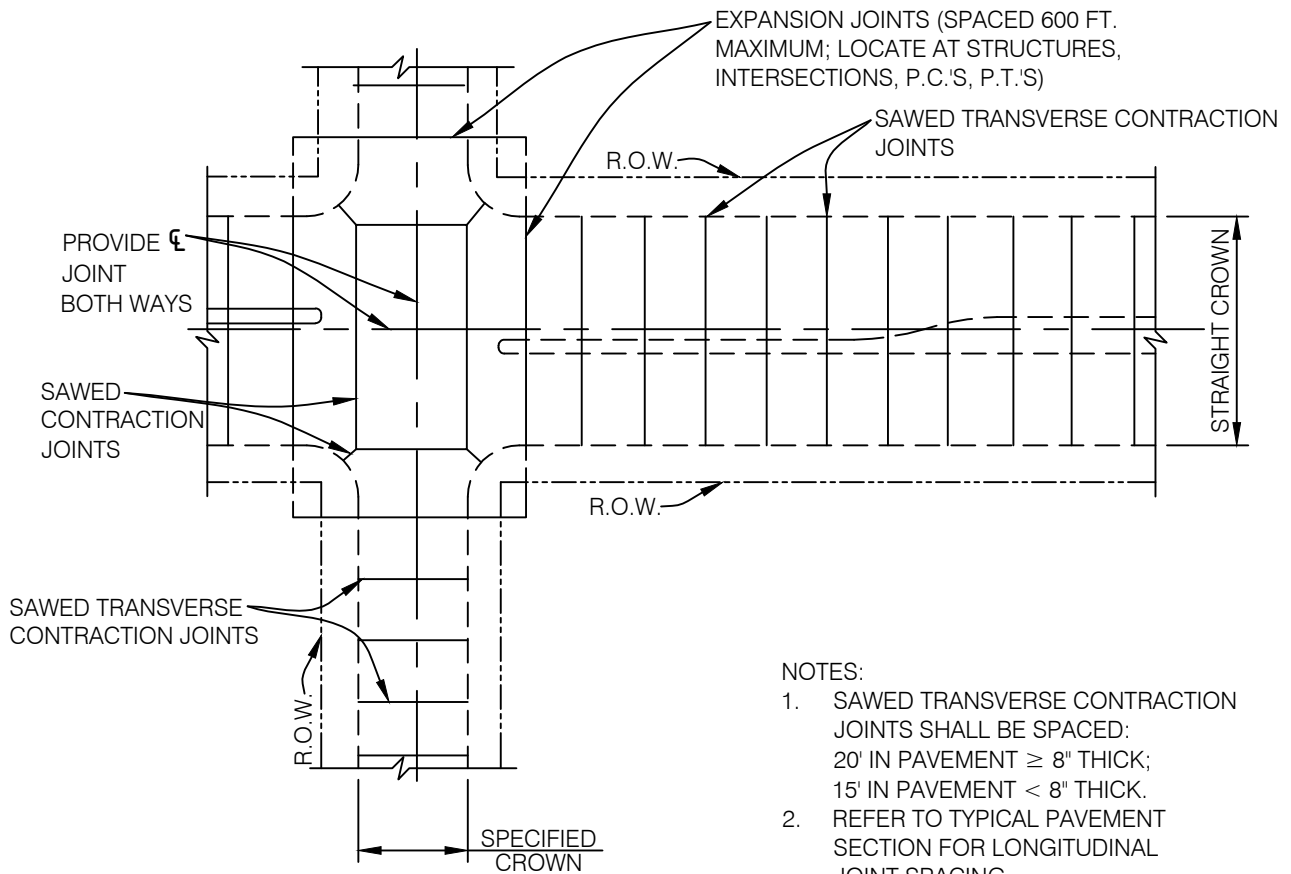
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PUBLIC WORKS DEPARTMENT

TYPICAL UTILITY LOCATIONS IN STREET

SHEET. #

R8



SPACING DIAGRAM FOR TRANSVERSE JOINTS

1

TRANSVERSE JOINTS

NOT TO SCALE



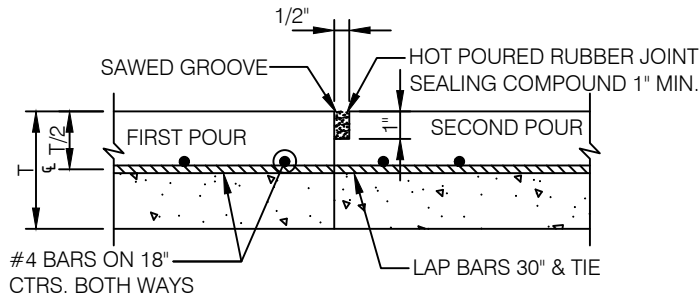
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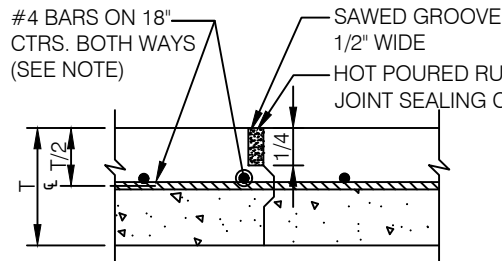
REINFORCED CONCRETE PAVEMENT
TRANSVERSE JOINT SPACING

SHEET. #

R9

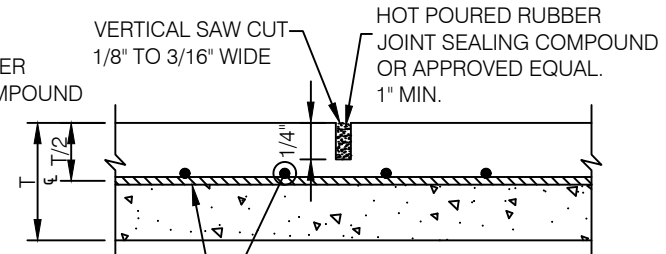


CONSTRUCTION JOINT



KEYED CONSTRUCTION JOINT

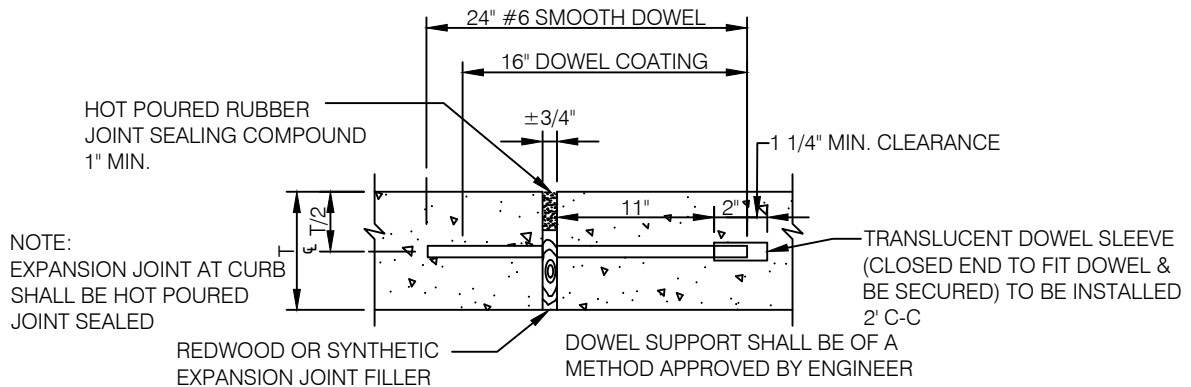
(FOR PAVEMENT THICKNESS > 6")



SAWED CONTRACTION JOINT

(REFER SHEET R9)

NOTE:
ALTERNATE REINFORCEMENT
#4 BARS ON 18" CTRS.
BOTH WAYS.



EXPANSION JOINT

(SPACED 600FT MAXIMUM; LOCATE AT
STRUCTURES AND AT INTERSECTION P.C.'S & P.T.'S)

1

REINFORCED CONCRETE PAVEMENT JOINTS

NOT TO SCALE



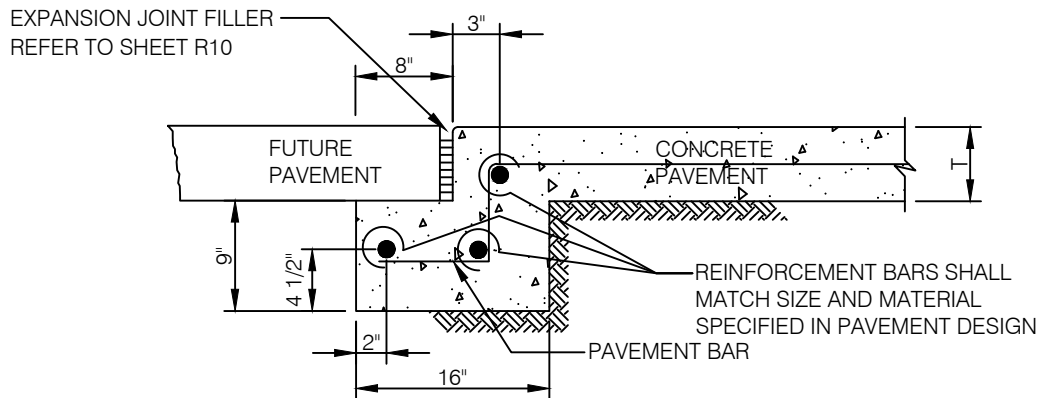
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PUBLIC WORKS DEPARTMENT

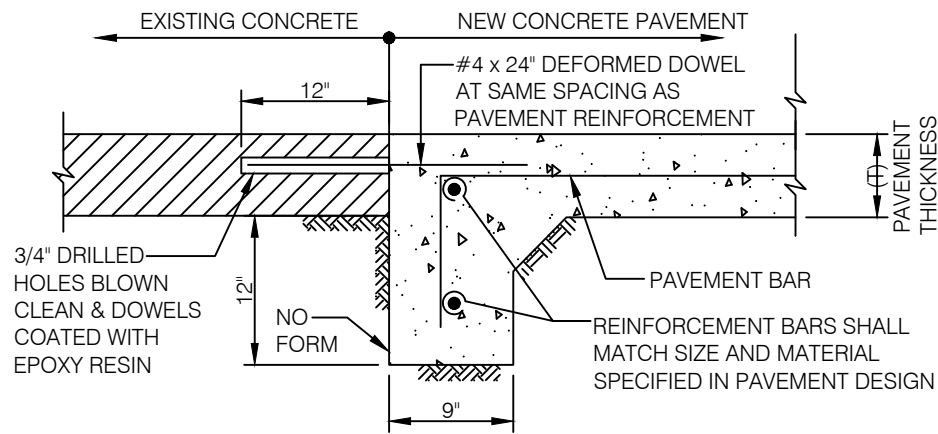
REINFORCED CONCRETE
PAVEMENT JOINTS

SHEET. #

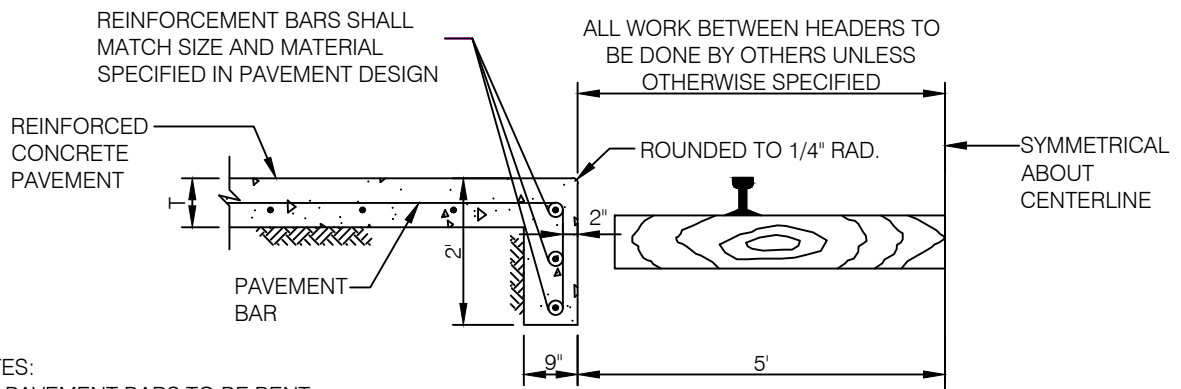
R10



STREET HEADER FOR FUTURE PAVEMENT



STREET HEADER AT EXISTING PAVEMENT



NOTES:

1. PAVEMENT BARS TO BE BENT DOWN INTO HEADER.
2. HEADER AND PAVEMENT TO BE MONOLITHIC.

STREET HEADER AT RAILROAD

1

STREET HEADERS

NOT TO SCALE



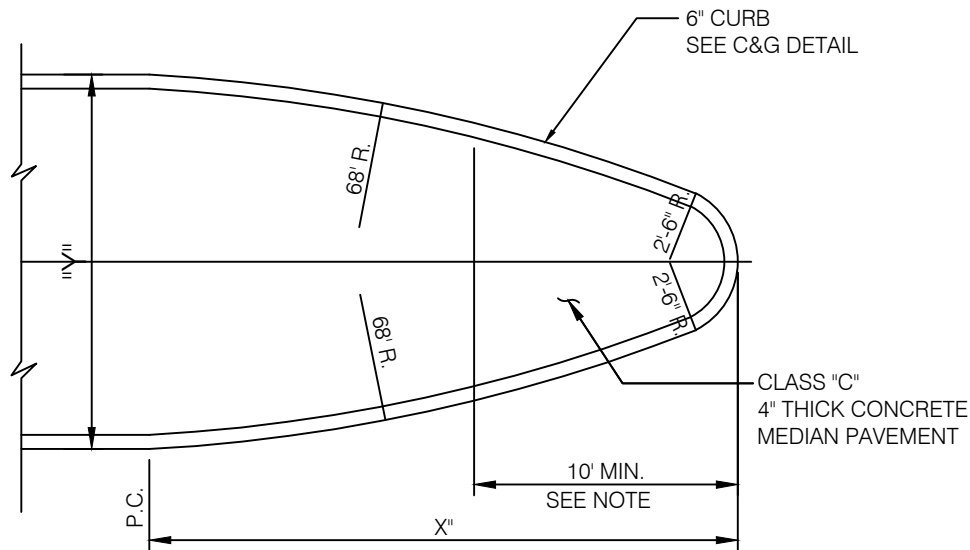
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PUBLIC WORKS DEPARTMENT

REINFORCED CONCRETE
STREET HEADERS

SHEET. #

R11



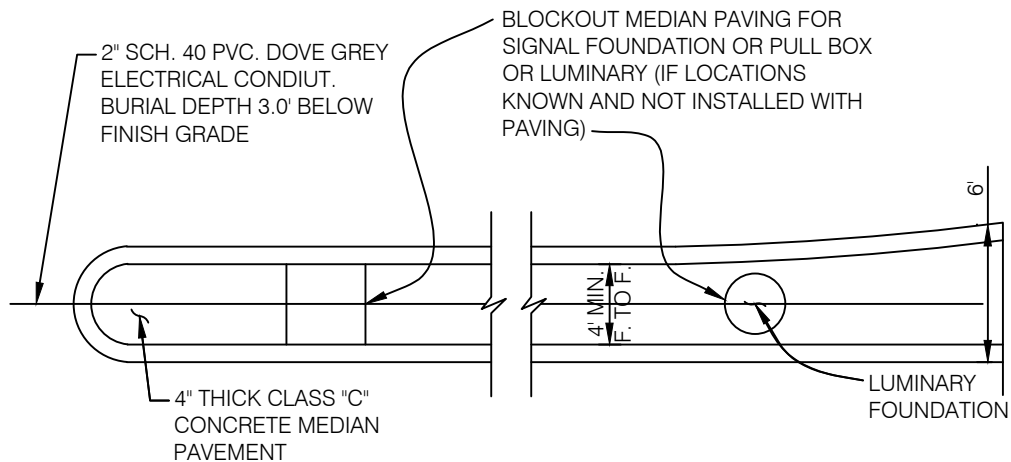
DIMENSIONS OF MEDIAN NOSE

Y = 14'	X = 26.3'
Y = 15'	X = 27.6'
Y = 16'	X = 28.8'
Y = 17'	X = 29.9'

CONCRETE NOSE FOR MEDIAN ISLAND

NOTE:

MEDIAN PAVING SHALL EXTEND TO POINT WHERE MEDIAN IS 6' WIDE. IF MEDIAN IS 6' WIDE, PAVING SHALL EXTEND 15' FROM NOSE. FOR MEDIANS WIDER THAN 6' PAVING SHALL EXTEND 10' FROM NOSE. ALL DISTANCES ARE MINIMUM.



LEFT TURN LANE MEDIAN PAVEMENT

1

MEDIAN ISLAND PAVEMENT

NOT TO SCALE



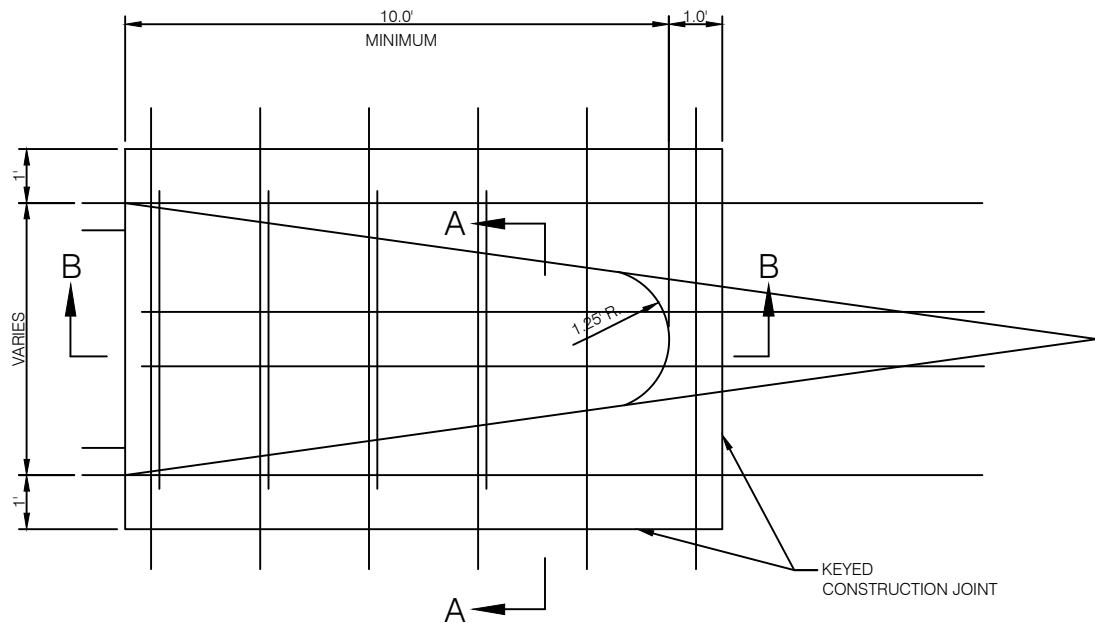
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PUBLIC WORKS DEPARTMENT

MEDIAN ISLAND PAVEMENT

SHEET. #

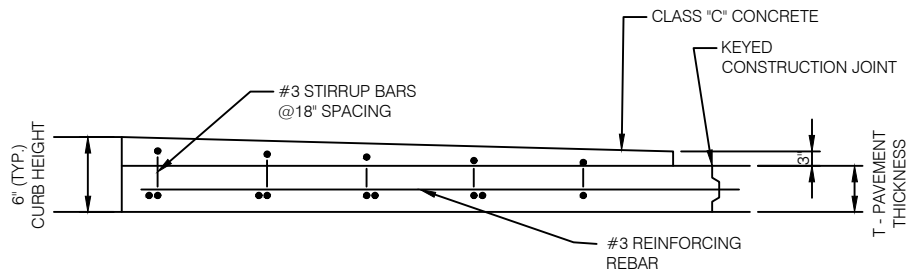
R12



1

MONOLITHIC CONCRETE MEDIAN NOSE

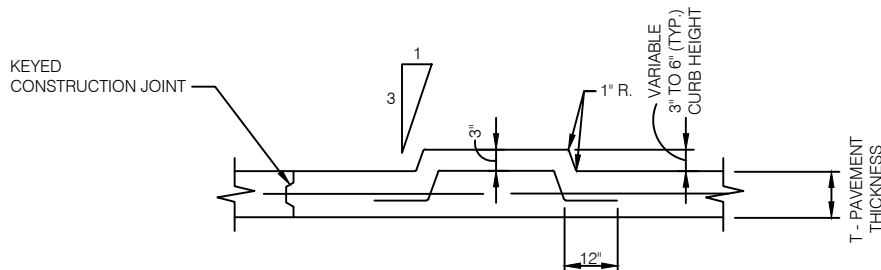
NOT TO SCALE



2

SECTION B-B

NOT TO SCALE



3

SECTION A-A

NOT TO SCALE

NOTE:
1. REINFORCEMENT BARS SHALL
MATCH SIZE AND MATERIAL SPECIFIED
IN PAVEMENT DESIGN.

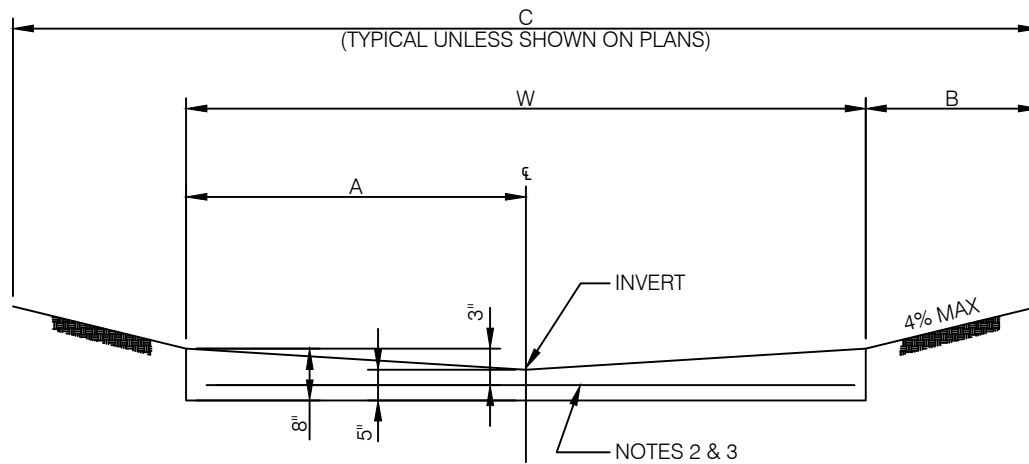


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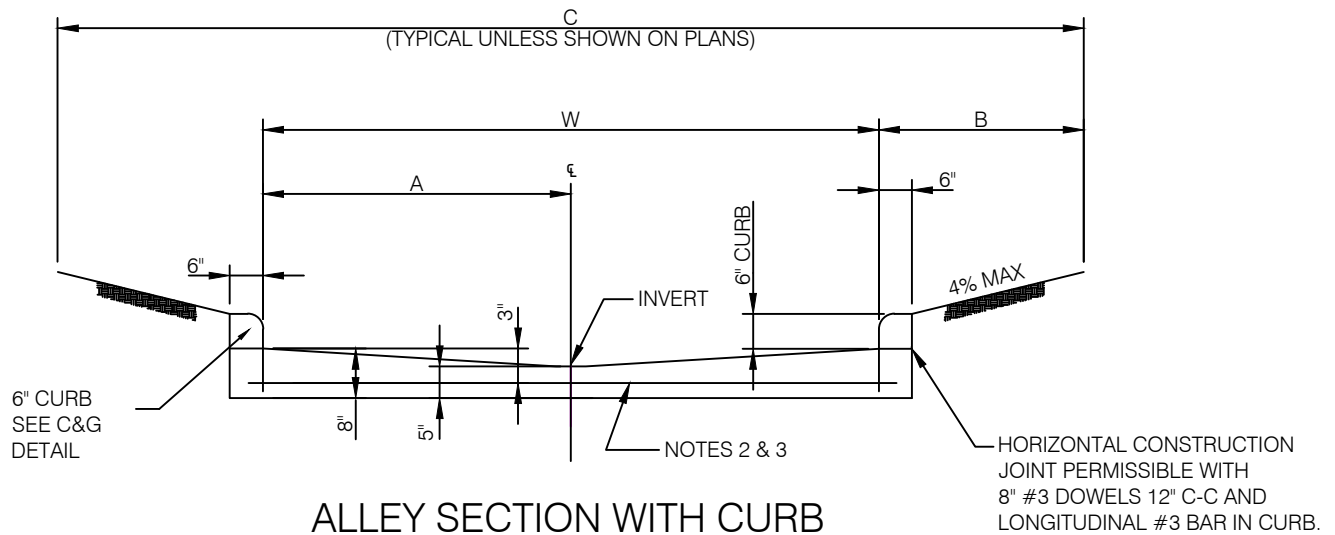
PUBLIC WORKS DEPARTMENT
MEDIAN ISLAND PAVEMENT
MONOLITHIC CONCRETE NOSE

SHEET. #

R13



ALLEY SECTION WITHOUT CURB



ALLEY SECTION WITH CURB

NOTES:

1. PROVIDE SAWED TRANSVERSE CONTRACTION JOINTS NOT MORE THAN 20' C-C.
2. REINFORCED WITH NO. 3 BARS AT 18" C-C BOTH WAYS.
3. EXPANSION JOINTS TO BE PLACED AT ALL INTERSECTIONS AND NOT TO EXCEED 600' BETWEEN JOINTS.
4. CONCRETE SHALL BE 5" THICK CLASS "C", 3600 PSI
5. COMPACTED SUBGRADE TO 95% STANDARD PROCTOR WITH PI < 20.

ALLEY WIDTH (W)	A	B	R.O.W. WIDTH (C)
10'	5'	2'-6"	15'
15'	7.5'	2'-6"	20'

1

ALLEY SECTION

NOT TO SCALE



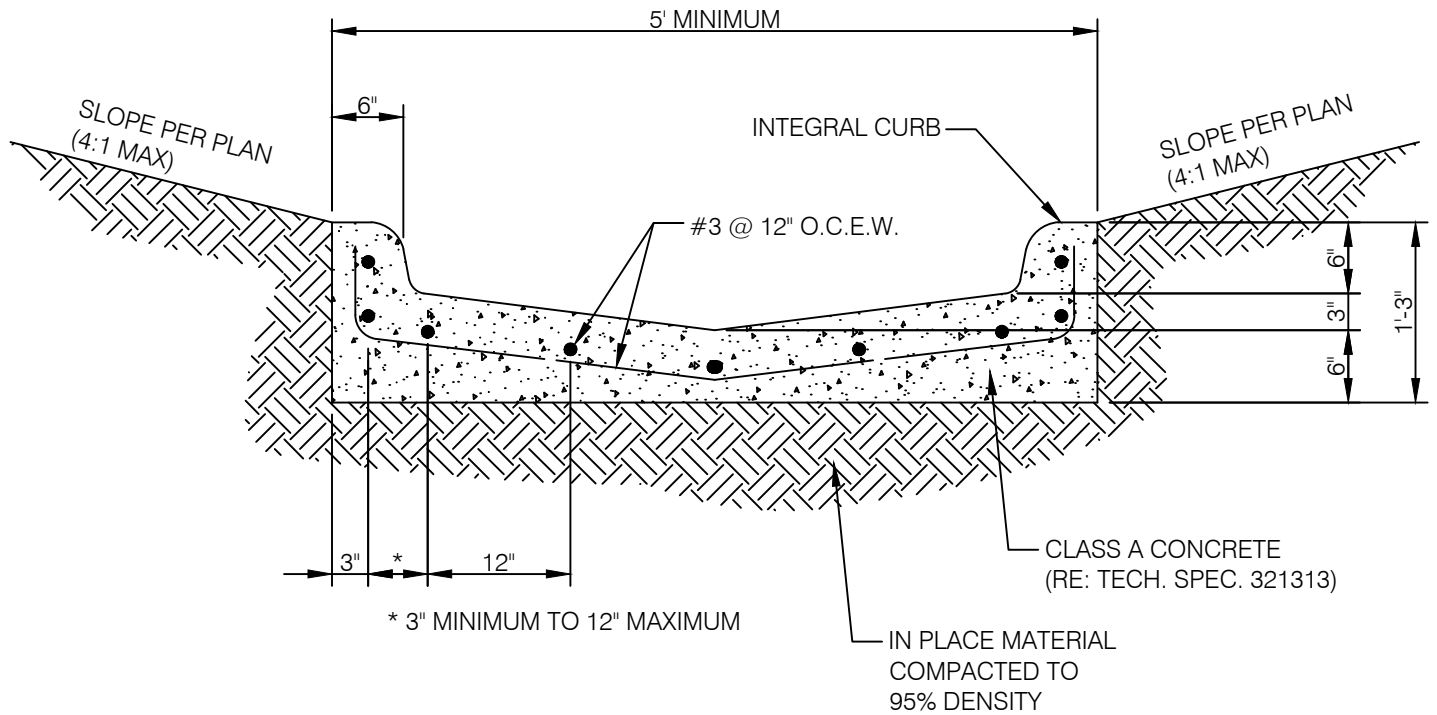
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PUBLIC WORKS DEPARTMENT

ALLEY SECTION WITH
AND WITHOUT CURB

SHEET. #

R14



1 CURBED FLUME

NOT TO SCALE

NOTES:

1. IF FLUME IS 7' OR WIDER, INSTALL REMOVABLE STEEL BOLLARDS BURIED TO 4'-0" DEPTH AT BOTH START AND END OF FLUME AT 5' SPACING. CONTACT PUBLIC WORKS FOR ADDITIONAL INFORMATION AND DETAILS ON BOLLARDS.
2. SLOPES SHALL BE STABILIZED WITH VEGETATION OR OTHER APPROVED METHODS.



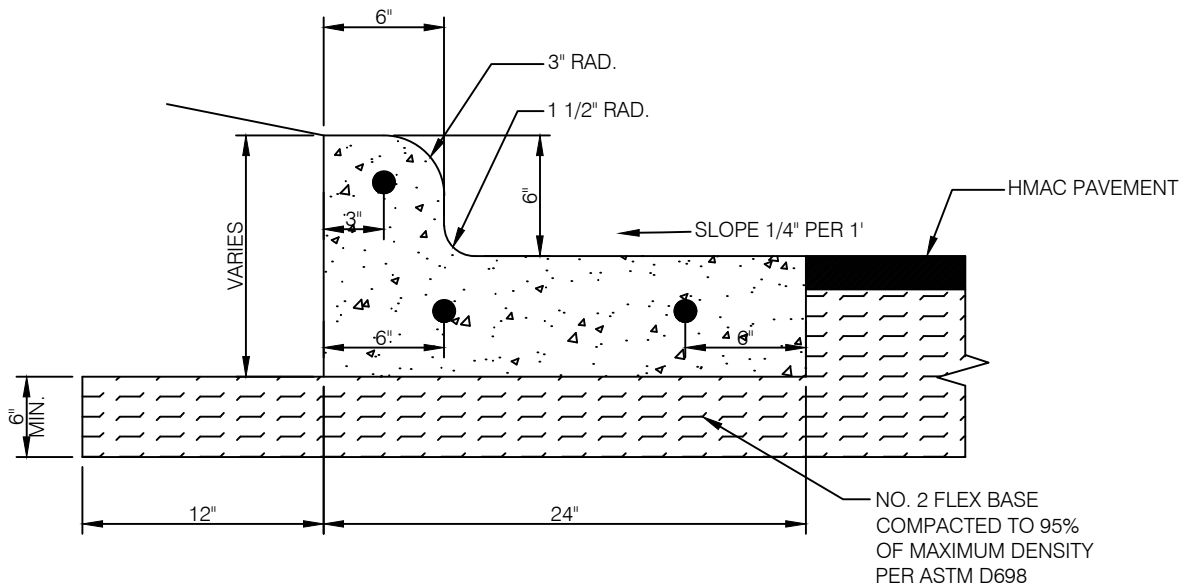
DATE	04/2023
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CITY OF WEATHERFORD	

PUBLIC WORKS DEPARTMENT

CURBED FLUME DETAIL

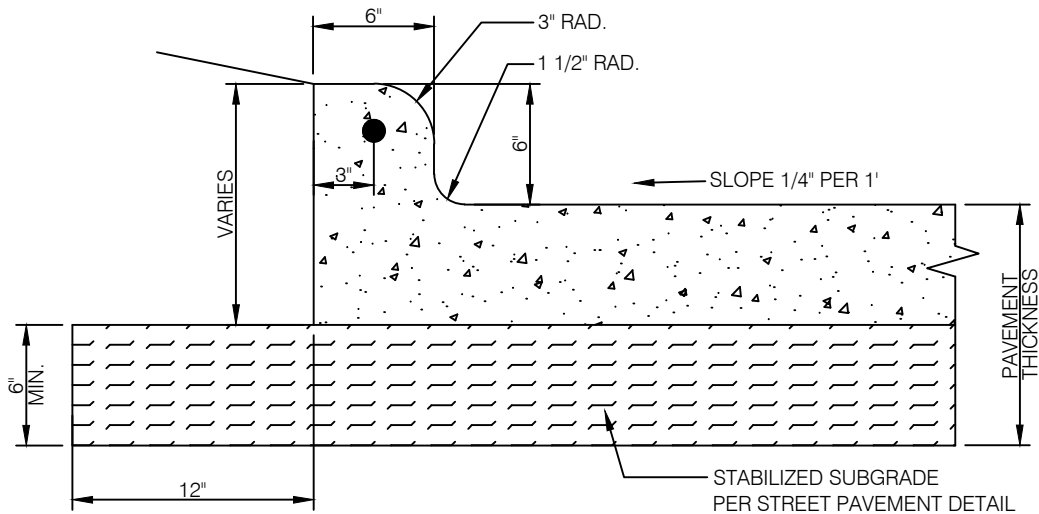
SHEET. #

R15



1 SEPARATE CURB AND GUTTER

NOT TO SCALE



2 INTEGRAL CURB AND GUTTER

NOT TO SCALE

NOTES:

1. REINFORCEMENT SHALL BE NO. 4 BARS, UNLESS OTHERWISE SPECIFIED.
2. CONCRETE SHALL BE CLASS "C", 3600 PSI MINIMUM. ALL CURBS ARE CONSTRUCTED OF PORTLAND CEMENT CONCRETE UNLESS OTHERWISE SHOWN.
3. FOR SEPERATE C&G CONTRACTOR SHALL PLACE EXPANSION JOINTS EVERY 60 FT. AND CONSTRUCT TOOL JOINT SPACING AT 10' INTERVALS UNLESS OTHERWISE SPECIFIED BY INSPECTOR.
4. FOR INTEGRAL C&G CONTRACTOR SHALL PLACE EXPANSION JOINTS AND TOOL JOINTS PER STREET PAVEMENT DETAIL OR AS SPECIFIED BY INSPECTOR.
5. GRADE SHALL BE MEASURED AT BACK OF CURB AND TOP OF CURB.

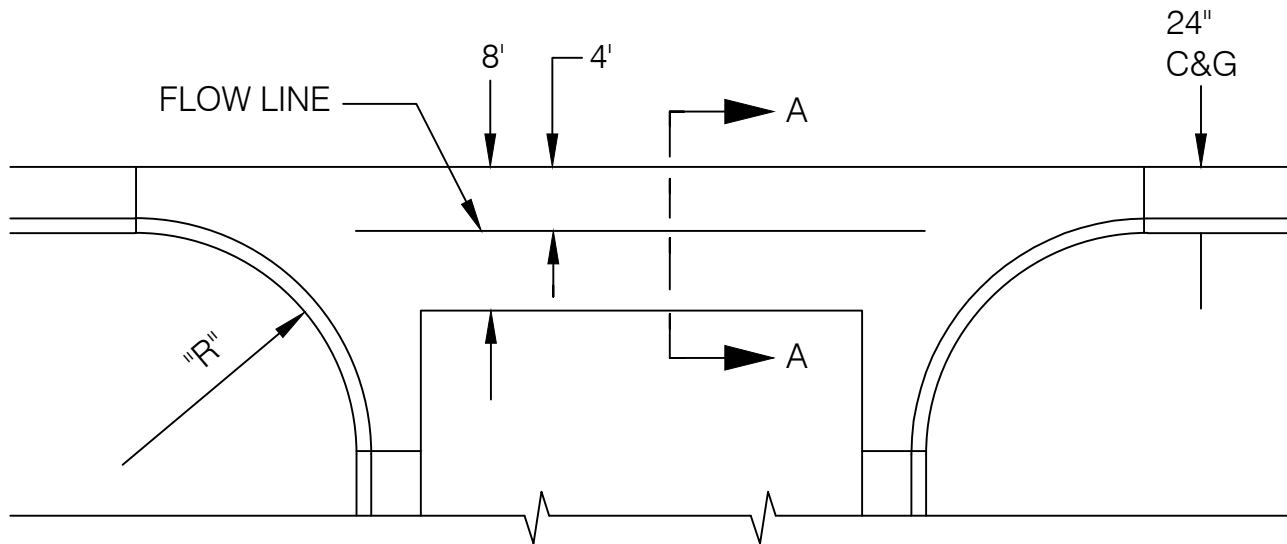


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CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT
CONCRETE CURB AND GUTTER

SHEET. #

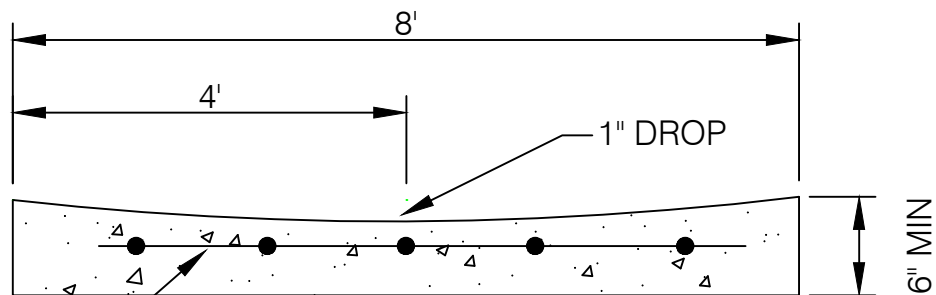
R16



1

VALLEY GUTTER

NOT TO SCALE



#4 @ 12" O.C.E.W.

NOTE:

ALL CONCRETE FOR VALLEY GUTTER SHALL BE CLASS "C"

REINFORCEMENT STEEL SHALL BE NO.4 ON 12" CENTERS BOTH WAYS.

6" THICK OR
PAVEMENT
THICKNESS

2

SECTION A-A

NOT TO SCALE



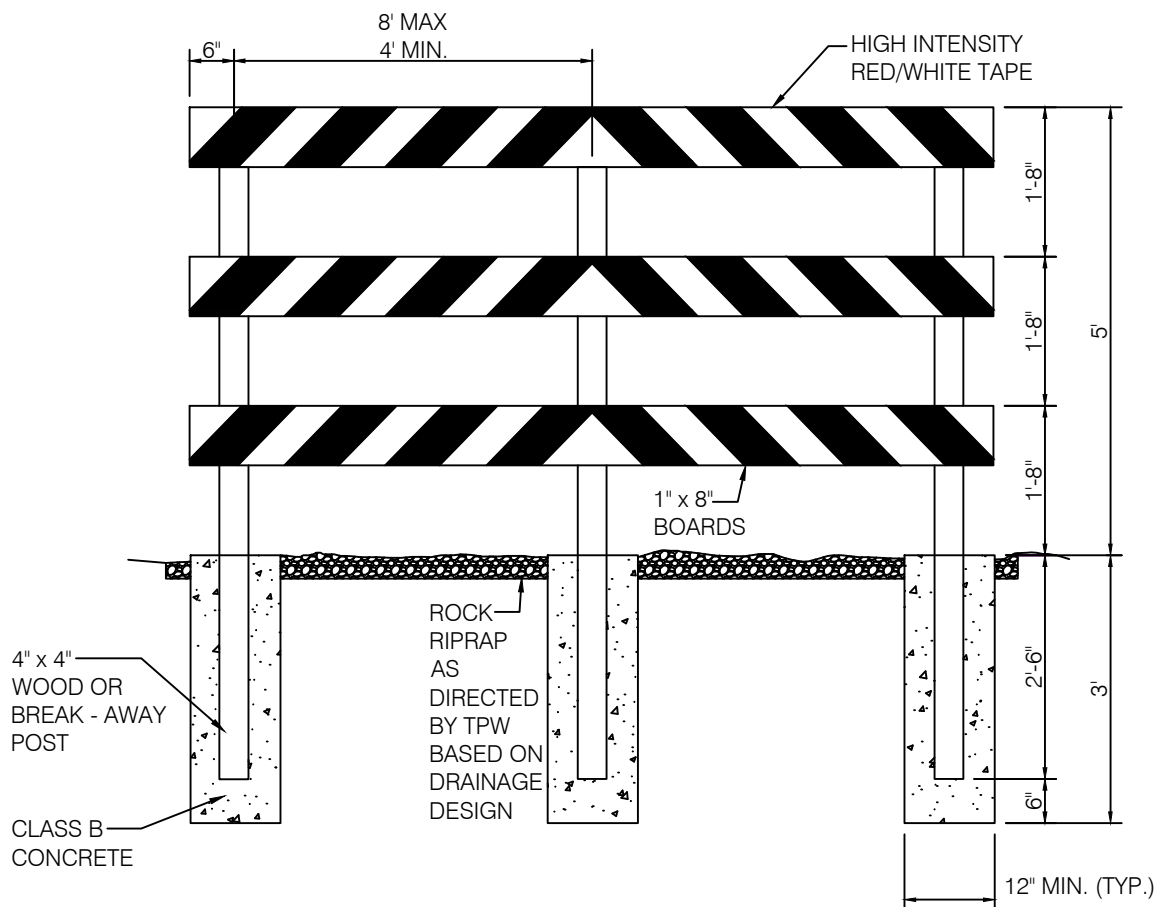
DATE
11/2023
DRAWN BY
CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

VALLEY GUTTER

SHEET. #

R17



TYPICAL INSTALLATION

NOTE:

1. ALL BARRICADES SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD).
2. BARRICADE MUST COVER ENTIRE WIDTH OF PAVED ROADWAY OR FIRELANE SURFACE.
3. ALL 1" x 8" AND 4" x 4" WOOD POSTS MUST BE PAINTED WHITE.
4. BARRICADES SHALL BE DESIGNED AND CONSTRUCTED TO THE STANDARDS OF THE COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICE LIST.
5. BARRICADE STRIPING MATERIAL SHALL BE RED AND WHITE HIGH INTENSITY REFLECTIVE SHEETING.
6. DIAGONAL STRIPING SHALL BE PLACED IN A MANNER THAT DIRECTS TRAFFIC IN THE APPROPRIATE DIRECTION OF TRAVEL.
7. PROPOSED BARRICADE STRIPING SHALL BE APPROVED BY THE CITY PRIOR TO PLACEMENT OF BARRICADE

1

ROAD CLOSED BARRICADE

NOT TO SCALE



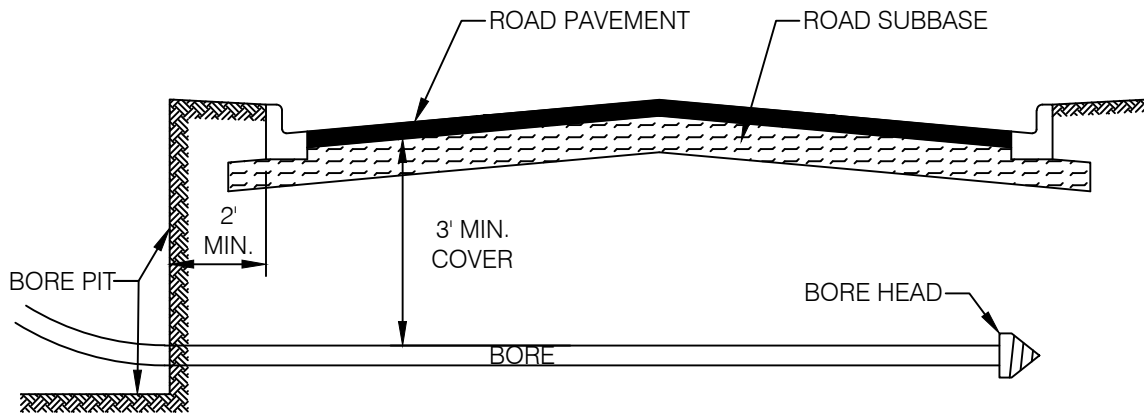
DATE
04/2023
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CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

ROAD CLOSED BARRICADE
TYPICAL INSTALLATION

SHEET. #

R18



1

JACK & BORE DETAILS

NOT TO SCALE

NOTES:

1. A RIGHT-OF-WAY EXCAVATION PERMIT IS REQUIRED WHEN JACKING OR BORING WITHIN CITY RIGHT-OF-WAY. PERMIT APPLICATION AVAILABLE THROUGH PUBLIC WORKS DEPARTMENT.
2. WHEN CONSTRUCTION IS WITHIN TXDOT RIGHT-OF-WAY JURISDICTION, A TXDOT PERMIT IS REQUIRED.
3. ALL CONSTRUCTION METHODS FOR JACKING & BORING SHALL CONFORM TO ITEM 503.1 THROUGH 503.4 OF N.C.T.C.O.G. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
4. WHEN CONSTRUCTION ACTIVITY IS COMPLETED, THE CONTRACTOR SHOULD BACKFILL ALL BORE PITS TO 90% OF MAXIMUM DENSITY AND REPLACE, IF ANY, SURFACE VEGETATION TO THE SAME OR BETTER CONDITION PRIOR TO CONSTRUCTION.
5. CHECK WITH PUBLIC WORKS DEPARTMENT FOR SPECIFIC REQUIREMENTS NOT CONTAINED HEREIN.



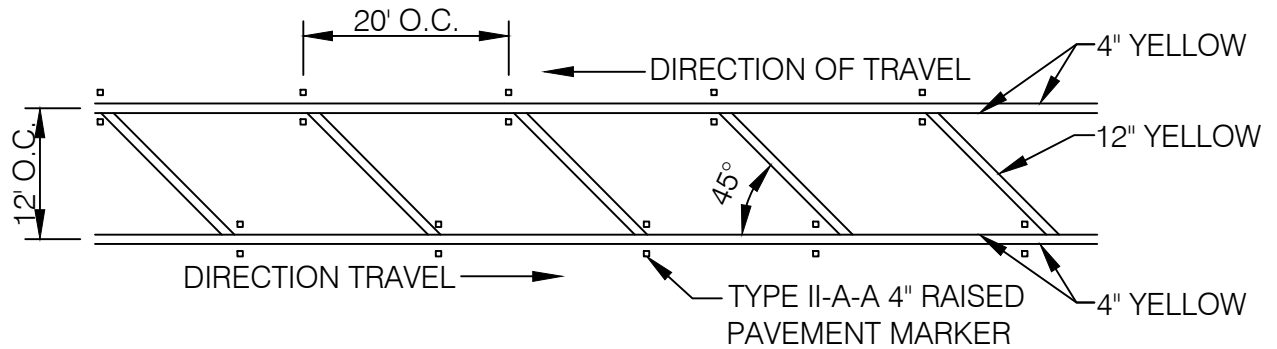
DATE	04/2023
DRAWN BY	
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PUBLIC WORKS DEPARTMENT

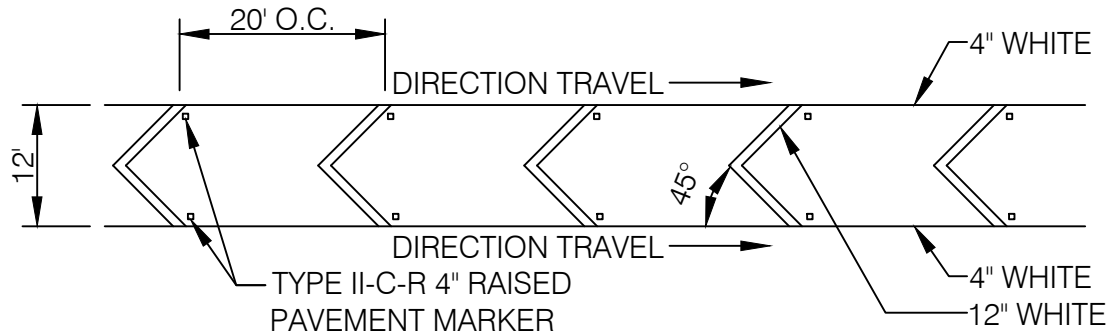
JACK & BORE DETAILS

SHEET. #

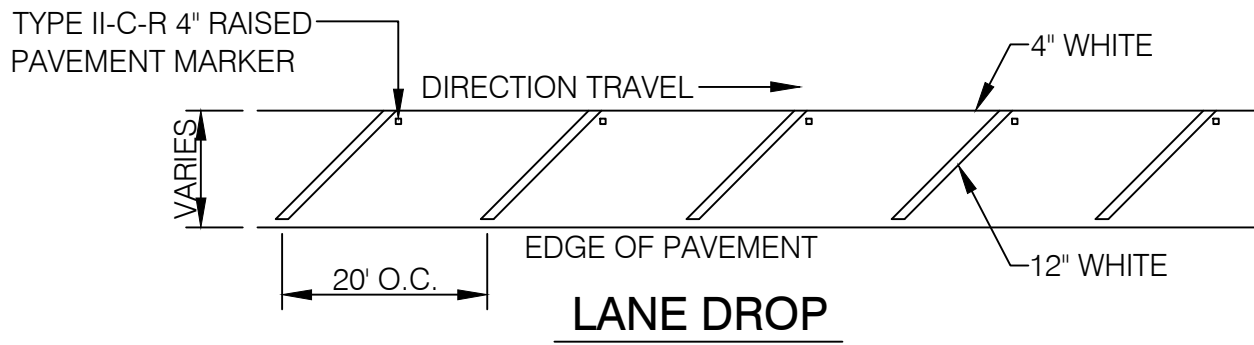
R19



OPPOSING TRAFFIC GORE DETAIL



OPPOSING TRAFFIC GORE DETAIL



NOTES:

1. REFER TO TXDOT PM(4)-03 DETAIL "A" FOR DIMENSION BETWEEN PAVEMENT MARKINGS AND MARKERS.
2. REFER TO N.C.T.C.O.G. SPECIFICATIONS AND TXMUTCD.
3. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (TXDOT TYP I).

1

PAVEMENT MARKINGS AND DETAILS

NOT TO SCALE



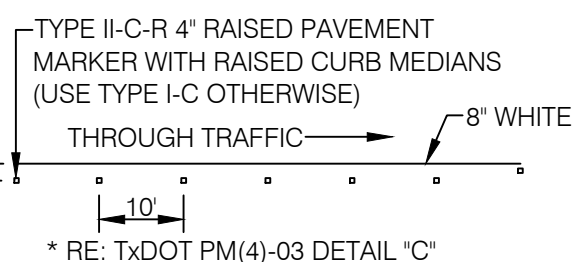
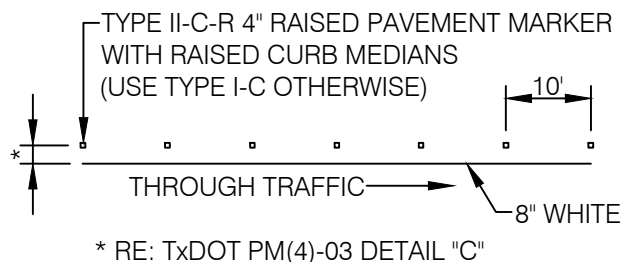
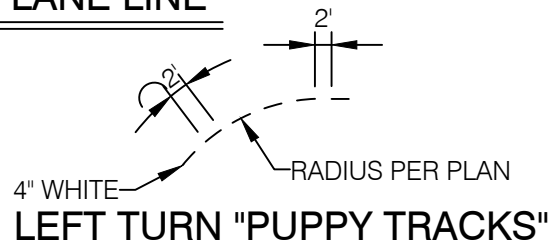
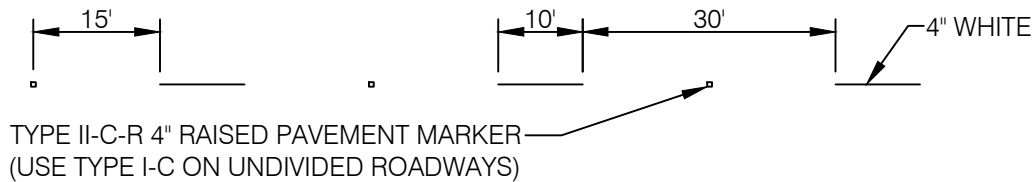
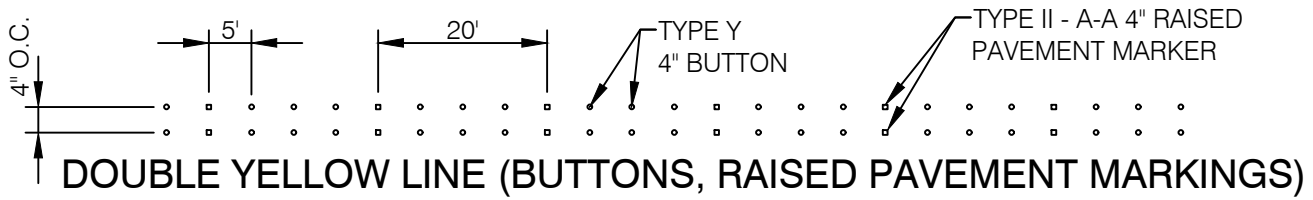
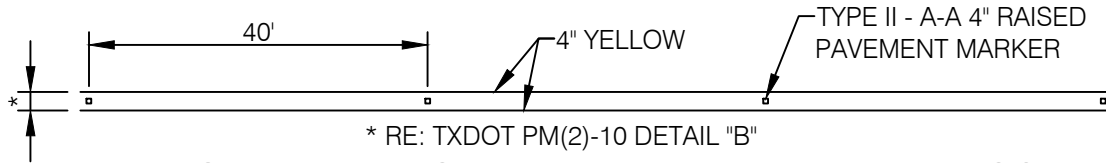
DATE	04/2023
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CITY OF WEATHERFORD	

PUBLIC WORKS DEPARTMENT

PAVEMENT MARKINGS DETAIL

SHEET. #

R20



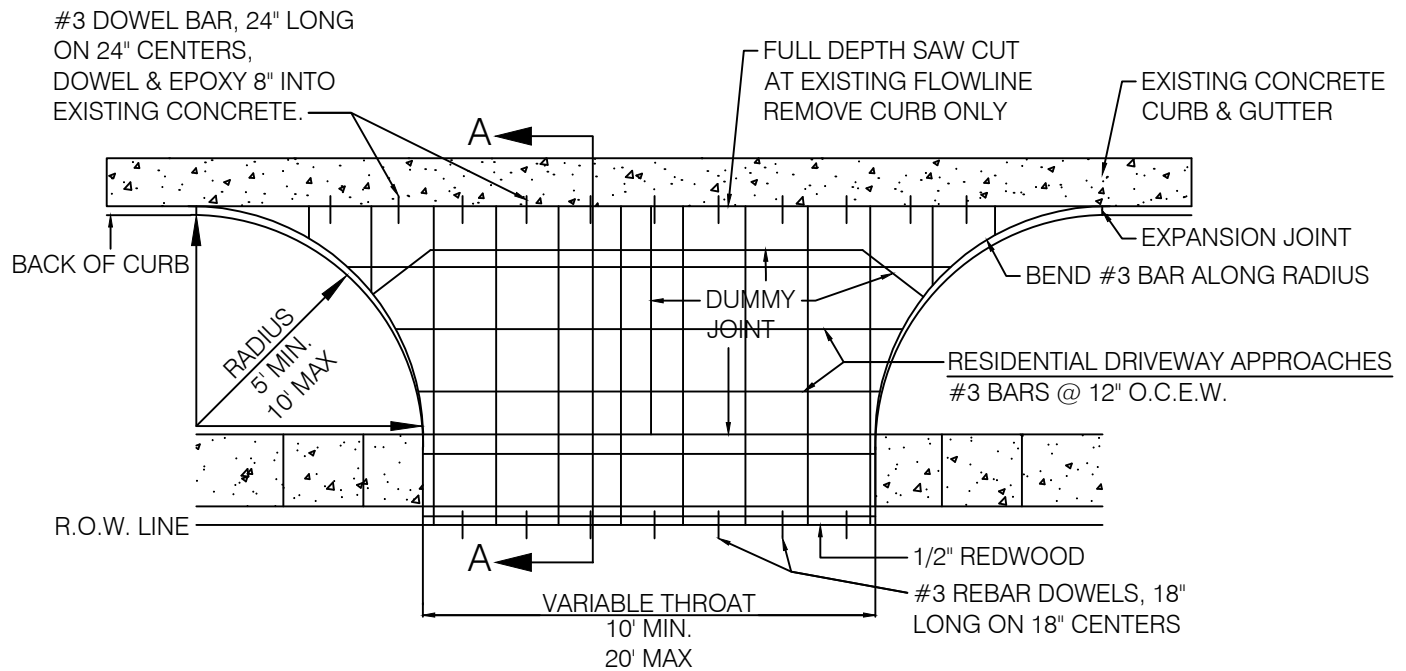
NOTES:

1. ALL STRIPING, ARROWS, AND WORDS ON PAVEMENT SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE NOTED IN PLANS.
2. REFER TO N.C.T.C.O.G. SPECIFICATIONS AND TXMUTCD

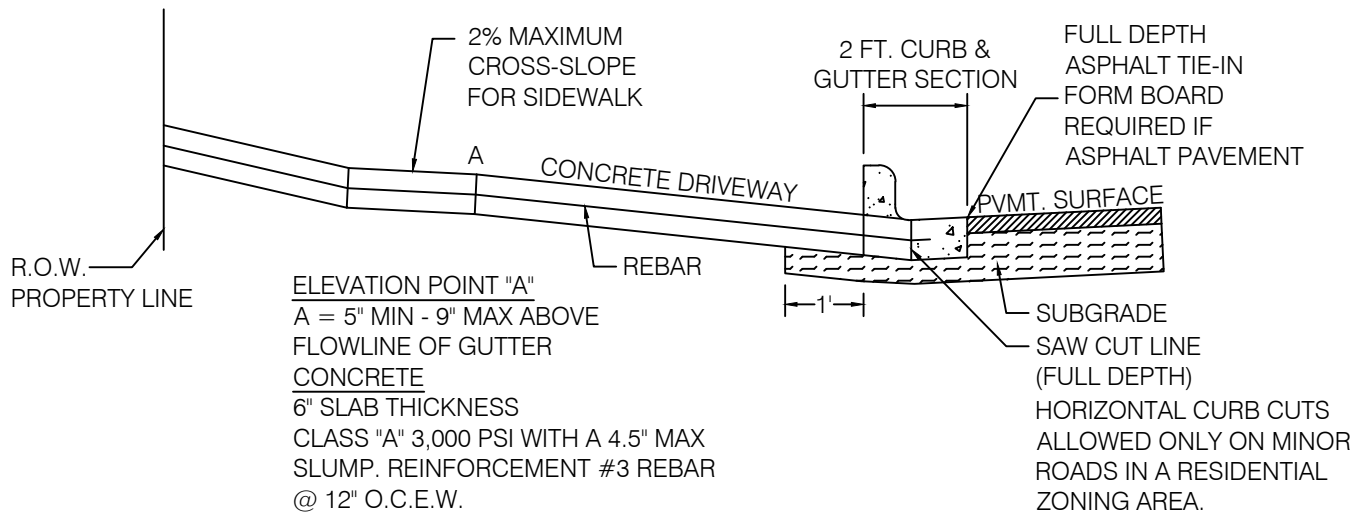
1 PAVEMENT MARKINGS AND DETAILS

NOT TO SCALE

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
CITY OF WEATHERFORD		PAVEMENT MARKINGS DETAIL	R21



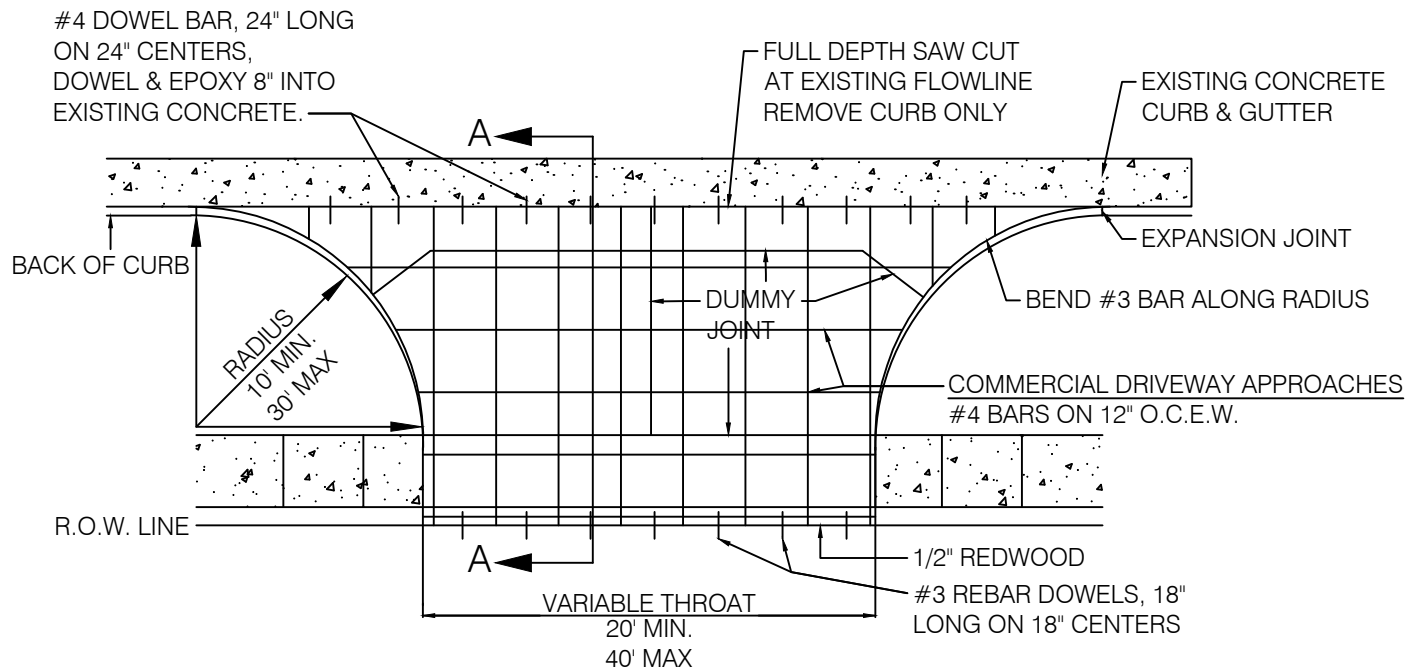
SECTION A-A



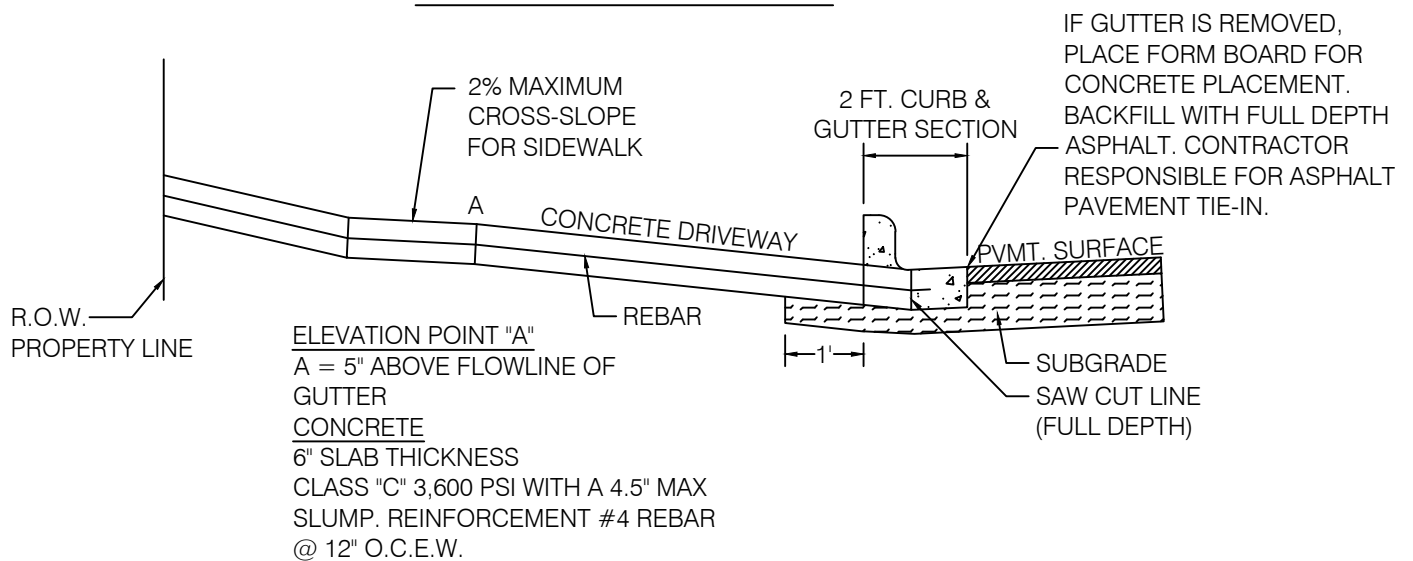
NOTES:

1. ABOVE GROUND PUBLIC UTILITY STRUCTURES SHALL BE A MINIMUM DISTANCE OF 4 FEET FROM THE DRIVEWAY APPROACH RADIUS.
2. DRIVEWAY EXCAVATION WITHIN R.O.W. SHALL NOT BE LEFT OPEN CUT FOR OVER 72 HOURS.
3. A DRIVEWAY APPROACH PERMIT IS REQUIRED PRIOR TO ANY CONSTRUCTION WITHIN CITY RIGHT OF WAY.

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
CITY OF WEATHERFORD		RESIDENTIAL DRIVEWAY APPROACH	R22



SECTION A-A



NOTES:

1. ABOVE GROUND PUBLIC UTILITY STRUCTURES SHALL BE A MINIMUM DISTANCE OF 4 FEET FROM THE DRIVEWAY APPROACH RADIUS.
2. DRIVEWAY EXCAVATION WITHIN R.O.W. SHALL NOT BE LEFT OPEN CUT FOR OVER 72 HOURS.
3. A DRIVEWAY APPROACH PERMIT IS REQUIRED PRIOR TO ANY CONSTRUCTION WITHIN CITY RIGHT OF WAY.



DATE
01/2025
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CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

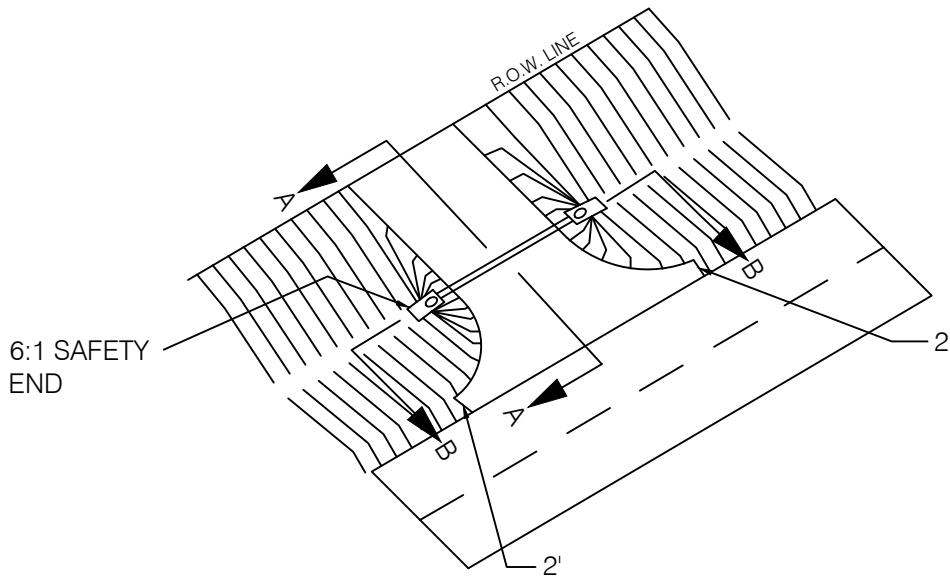
COMMERCIAL DRIVEWAY APPROACH

SHEET. #

R23

NOTES:

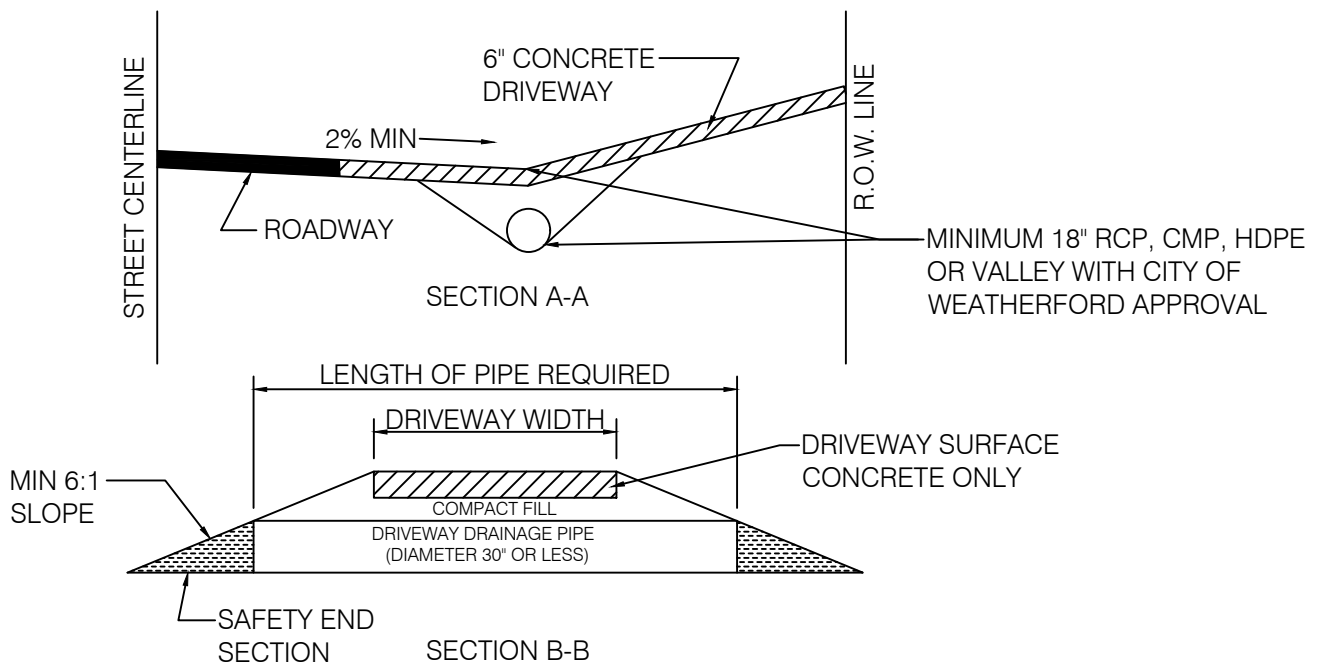
1. SEE DRIVEWAY APPROACH DETAILS FOR FLAT DRIVEWAY W/O CURBS AND STEEL REINFORCEMENT LAYOUT
2. DRIVEWAY PAVEMENT SHALL EXTEND UNTIL IT TIES INTO THE ROADWAY PAVEMENT, PAST ANY EXISTING SHOULDER.
3. 6" CLASS "A" CONCRETE MINIMUM 3000 PSI



1

STANDARD COMMERCIAL DRIVEWAY APPROACH WITH CULVERT

NOT TO SCALE



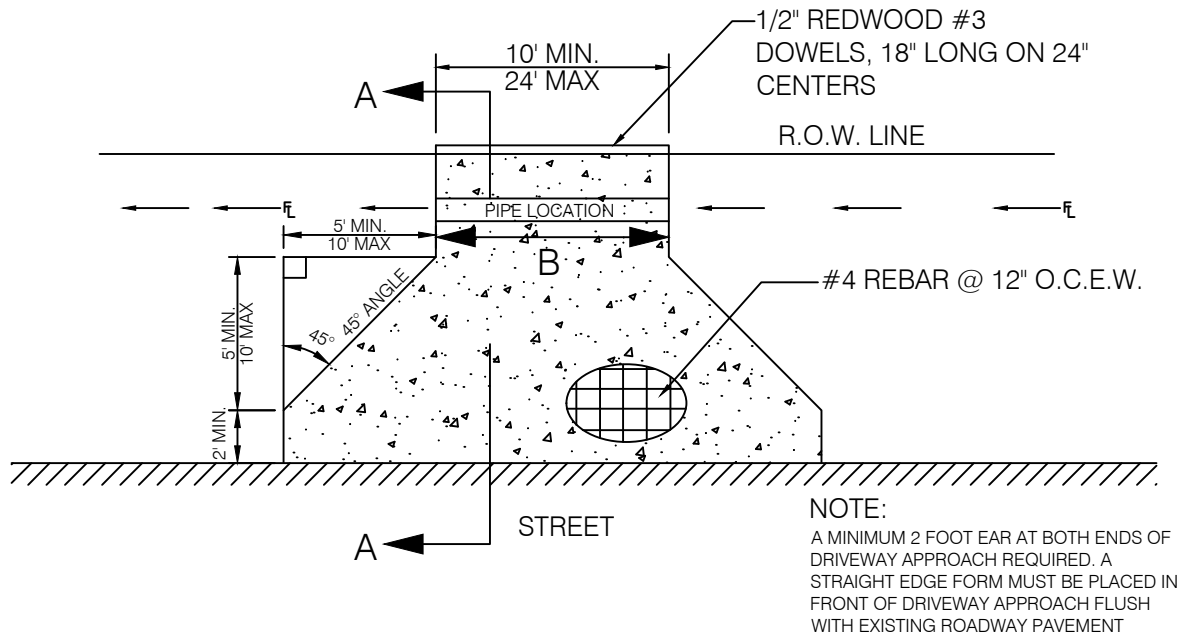
DATE
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CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

RURAL COMMERCIAL DRIVEWAY APPROACH
WITH CULVERT

SHEET. #

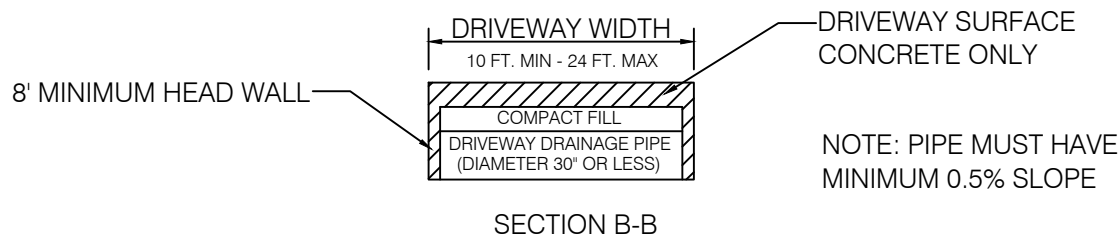
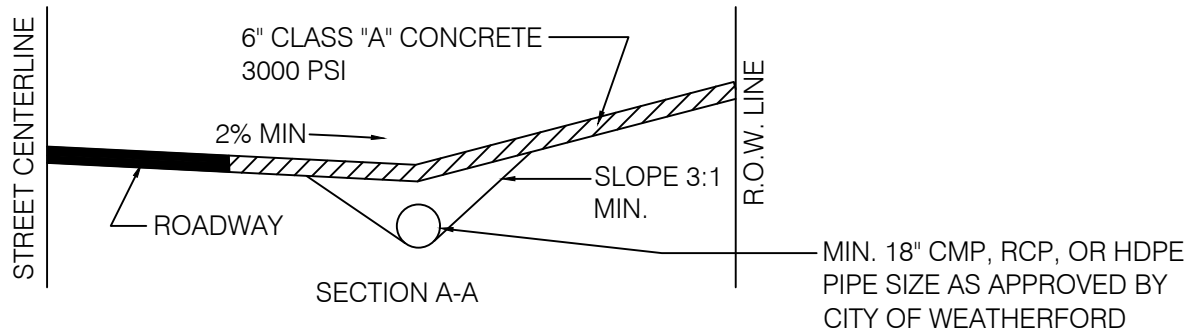
R24



STANDARD RESIDENTIAL DRIVEWAY APPROACH WITH CULVERT

1

NOT TO SCALE



DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

RURAL RESIDENTIAL DRIVEWAY APPROACH
WITH CULVERT

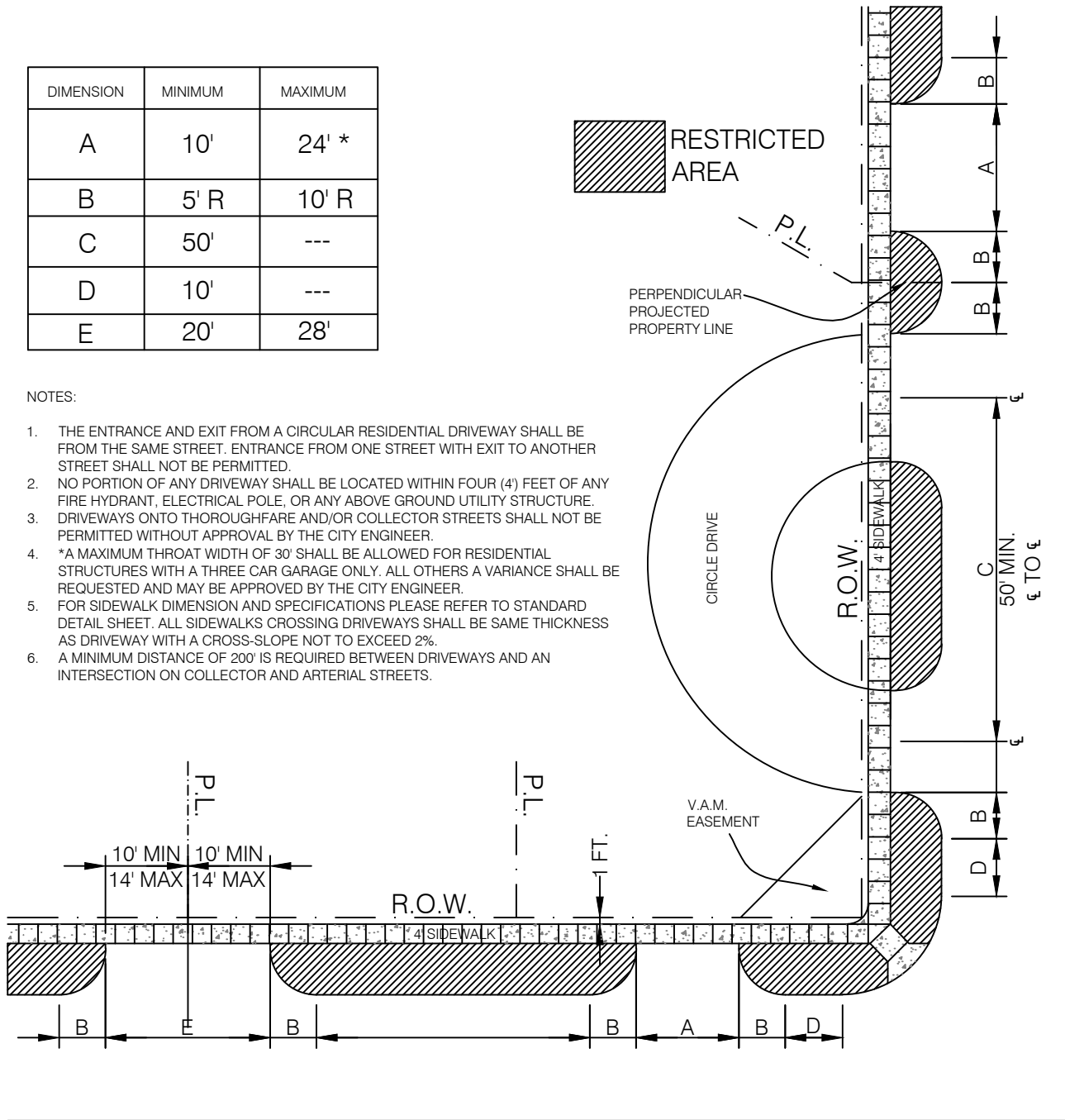
SHEET. #

R25

DIMENSION	MINIMUM	MAXIMUM
A	10'	24' *
B	5' R	10' R
C	50'	---
D	10'	---
E	20'	28'

NOTES:

1. THE ENTRANCE AND EXIT FROM A CIRCULAR RESIDENTIAL DRIVEWAY SHALL BE FROM THE SAME STREET. ENTRANCE FROM ONE STREET WITH EXIT TO ANOTHER STREET SHALL NOT BE PERMITTED.
2. NO PORTION OF ANY DRIVEWAY SHALL BE LOCATED WITHIN FOUR (4) FEET OF ANY FIRE HYDRANT, ELECTRICAL POLE, OR ANY ABOVE GROUND UTILITY STRUCTURE.
3. DRIVEWAYS ONTO THOROUGHFARE AND/OR COLLECTOR STREETS SHALL NOT BE PERMITTED WITHOUT APPROVAL BY THE CITY ENGINEER.
4. *A MAXIMUM THROAT WIDTH OF 30' SHALL BE ALLOWED FOR RESIDENTIAL STRUCTURES WITH A THREE CAR GARAGE ONLY. ALL OTHERS A VARIANCE SHALL BE REQUESTED AND MAY BE APPROVED BY THE CITY ENGINEER.
5. FOR SIDEWALK DIMENSION AND SPECIFICATIONS PLEASE REFER TO STANDARD DETAIL SHEET. ALL SIDEWALKS CROSSING DRIVEWAYS SHALL BE SAME THICKNESS AS DRIVEWAY WITH A CROSS-SLOPE NOT TO EXCEED 2%.
6. A MINIMUM DISTANCE OF 200' IS REQUIRED BETWEEN DRIVEWAYS AND AN INTERSECTION ON COLLECTOR AND ARTERIAL STREETS.



STREET C.L.
LOCAL STREET

1

RESIDENTIAL DRIVEWAY DESIGN

NOT TO SCALE



DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

RESIDENTIAL DRIVEWAY DESIGN

SHEET. #

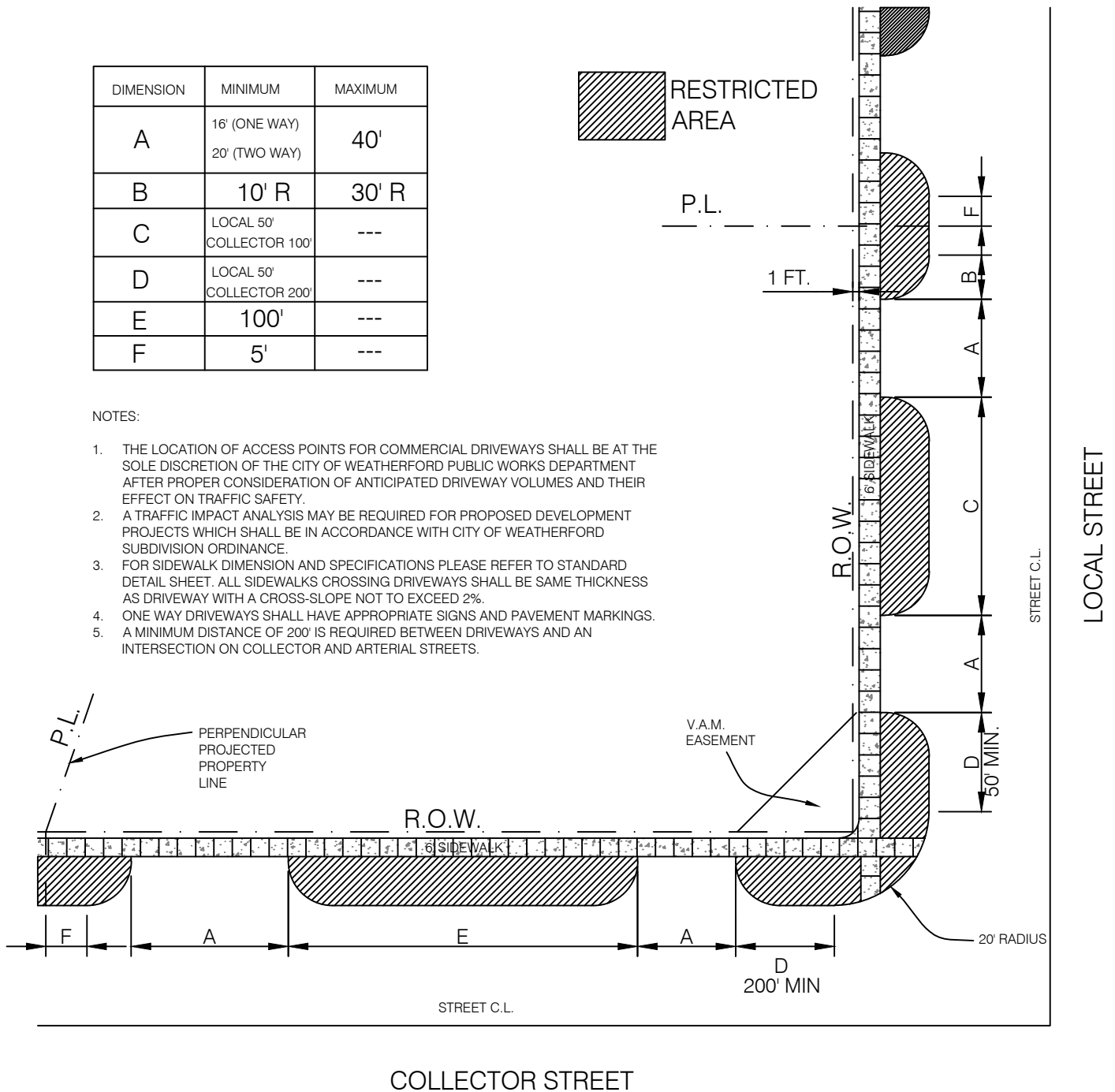
R26

DIMENSION	MINIMUM	MAXIMUM
A	16' (ONE WAY) 20' (TWO WAY)	40'
B	10' R	30' R
C	LOCAL 50' COLLECTOR 100'	---
D	LOCAL 50' COLLECTOR 200'	---
E	100'	---
F	5'	---



NOTES:

1. THE LOCATION OF ACCESS POINTS FOR COMMERCIAL DRIVEWAYS SHALL BE AT THE SOLE DISCRETION OF THE CITY OF WEATHERFORD PUBLIC WORKS DEPARTMENT AFTER PROPER CONSIDERATION OF ANTICIPATED DRIVEWAY VOLUMES AND THEIR EFFECT ON TRAFFIC SAFETY.
2. A TRAFFIC IMPACT ANALYSIS MAY BE REQUIRED FOR PROPOSED DEVELOPMENT PROJECTS WHICH SHALL BE IN ACCORDANCE WITH CITY OF WEATHERFORD SUBDIVISION ORDINANCE.
3. FOR SIDEWALK DIMENSION AND SPECIFICATIONS PLEASE REFER TO STANDARD DETAIL SHEET. ALL SIDEWALKS CROSSING DRIVEWAYS SHALL BE SAME THICKNESS AS DRIVEWAY WITH A CROSS-SLOPE NOT TO EXCEED 2%.
4. ONE WAY DRIVEWAYS SHALL HAVE APPROPRIATE SIGNS AND PAVEMENT MARKINGS.
5. A MINIMUM DISTANCE OF 200' IS REQUIRED BETWEEN DRIVEWAYS AND AN INTERSECTION ON COLLECTOR AND ARTERIAL STREETS.



1

COMMERCIAL DRIVEWAY DESIGN

NOT TO SCALE



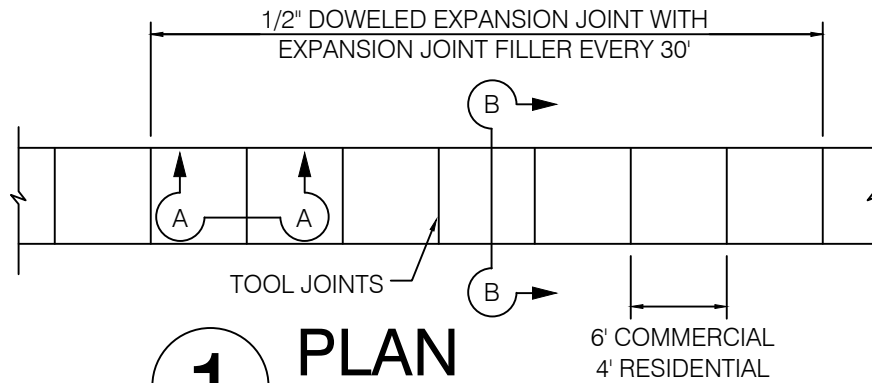
DATE
04/2023
DRAWN BY
CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

COMMERCIAL DRIVEWAY DESIGN

SHEET. #

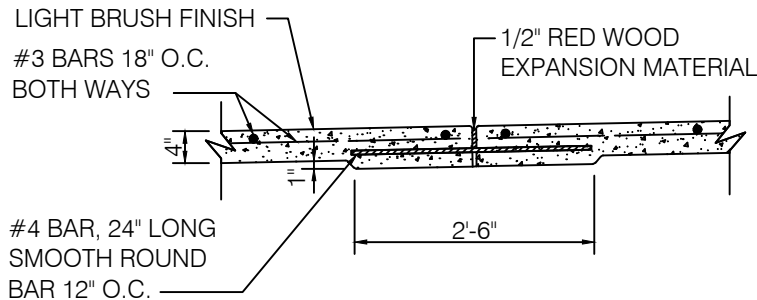
R27



NOTE:
SIDEWALK SHALL BE 1
FOOT AWAY FROM R.O.W.
LINE, UNLESS APPROVED
BY CITY.

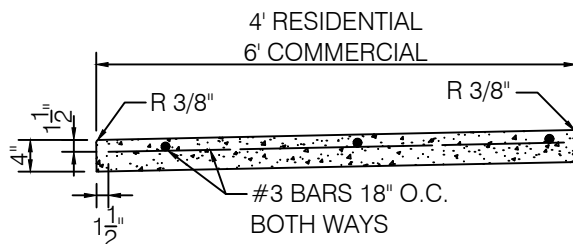
1 PLAN

NOT TO SCALE



2 SECTION A-A

NOT TO SCALE



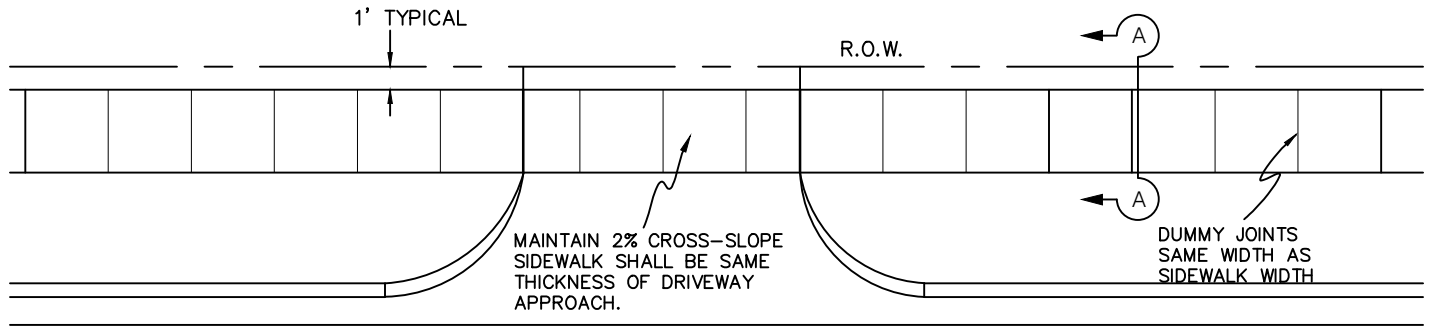
3 SECTION B-B

NOT TO SCALE

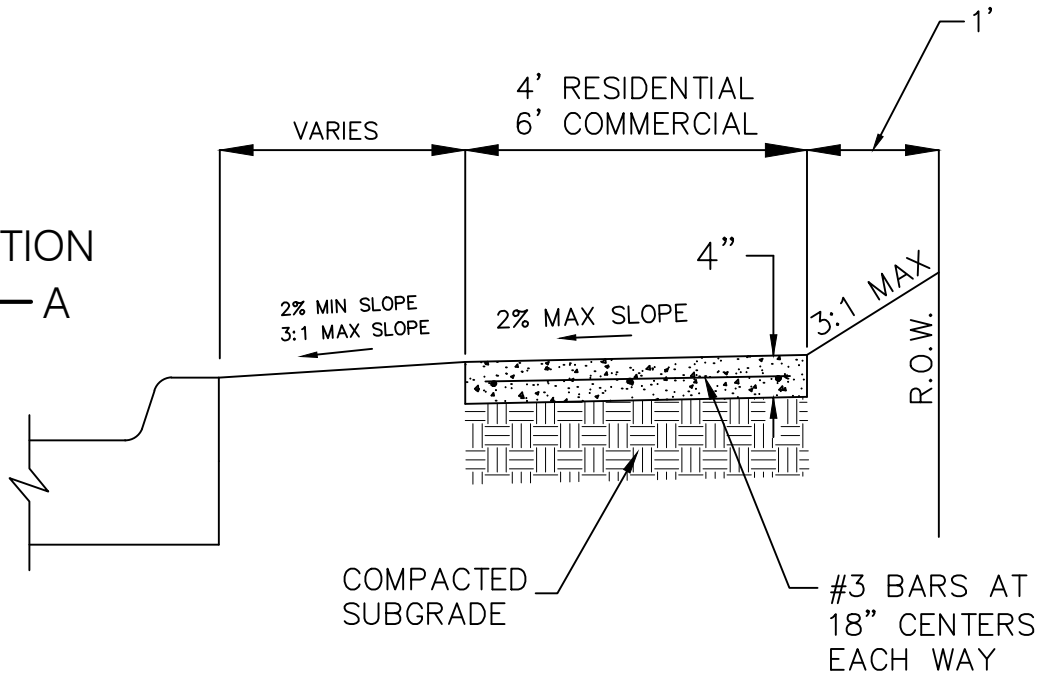
NOTES:

1. MAXIMUM GRADE OF THE SIDEWALK SHALL BE FIVE PERCENT (5%) OR THE GRADE OF ADJACENT OF STREET.
2. CROSS SLOPE OF SIDEWALK SHALL BE TWO PERCENT (2%) MAX PER A.D.A. OTHER THAN 5' SIDEWALK MAY BE SPECIFIED BY OWNER.
3. SIDEWALK SHALL BE CLASS "A" CONCRETE WITH #3 REBAR AT 18" CENTERS UNLESS OTHERWISE SPECIFIED BY OWNER.
4. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.
5. 1/2" EXPANSION JOINTS SHALL BE SPACED AT 30' MAXIMUM INTERVALS OR AS OTHERWISE SPECIFIED. JOINTS SHALL BE RED WOOD WITH MINIMUM THREE (3) #4 SMOOTH DOWELS AT 12" SPACING.
6. ALL EXPANSION JOINTS SHALL BE SEALED WITH APPROVED JOINT SEALANT PER N.C.T.C.O.G. SPECIFICATIONS.
7. ALL SIDEWALKS CROSSING DRIVEWAYS SHALL BE SAME THICKNESS OF DRIVEWAY APPROACH.
8. SIDEWALK SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
9. A MAXIMUM OF 1" SAND MAY BE USED FOR LEVEL UP ONLY.
10. ALL SIDEWALK CONSTRUCTION SHALL CONFORM TO THE LATEST A.D.A. RULES AND GUIDELINES AND TEXAS ACCESSIBILITY STANDARDS.
11. ALL SIDEWALK CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE PUBLIC WORKS CONSTRUCTION STANDARDS, NORTH CENTRAL TEXAS.
12. OWNER/CONTRACTOR SHALL OBTAIN A R.O.W. EXCAVATION PERMIT PRIOR TO ANY WORK OR CONSTRUCTION. CONTACT PUBLIC WORKS TO OBTAIN A PERMIT.
13. ALL SIDEWALKS SHALL BE LOCATED 1' FROM THE PROPERTY/RIGHT-OF-WAY LINE. SIDEWALKS SHALL NOT BE ALLOWED ADJACENT TO BACK OF CURB UNLESS APPROVED BY THE CITY ENGINEER.

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY	REINFORCED CONCRETE SIDEWALK	R28
	CITY OF WEATHERFORD		



SECTION A—A



NOTES:

1. CROSS SLOPE OF SIDEWALK SHALL BE TWO PERCENT (2%) MAX INCLUDING OVER DRIVEWAY APPROACH.
2. SIDEWALK SHALL BE 4" THICKNESS, CLASS "A" CONCRETE WITH #3 REBAR AT 18" CENTERS UNLESS OTHERWISE SPECIFIED BY PUBLIC WORKS.
3. 1/2" EXPANSION JOINTS SHALL BE SPACED AT 30' MAXIMUM INTERVALS OR AS OTHERWISE SPECIFIED. JOINTS SHALL BE RED WOOD WITH MINIMUM THREE (3) #4 SMOOTH DOWELS AT 12" SPACING.
4. ALL SIDEWALKS CROSSING DRIVEWAYS SHALL BE SAME THICKNESS OF DRIVEWAY APPROACH.
5. ALL SIDEWALK CONSTRUCTION SHALL CONFORM TO THE LATEST A.D.A. RULES AND GUIDELINES AND TEXAS ACCESSIBILITY STANDARDS.
6. FOR ITEMS NOT SPECIFIED IN THIS DETAIL PLEASE REFER TO N.C.T.C.O.G. PUBLIC WORKS CONSTRUCTION STANDARDS.
7. OWNER/CONTRACTOR SHALL OBTAIN A R.O.W. CONSTRUCTION PERMIT PRIOR TO ANY WORK OR CONSTRUCTION. CONTACT PUBLIC WORKS TO OBTAIN A PERMIT.



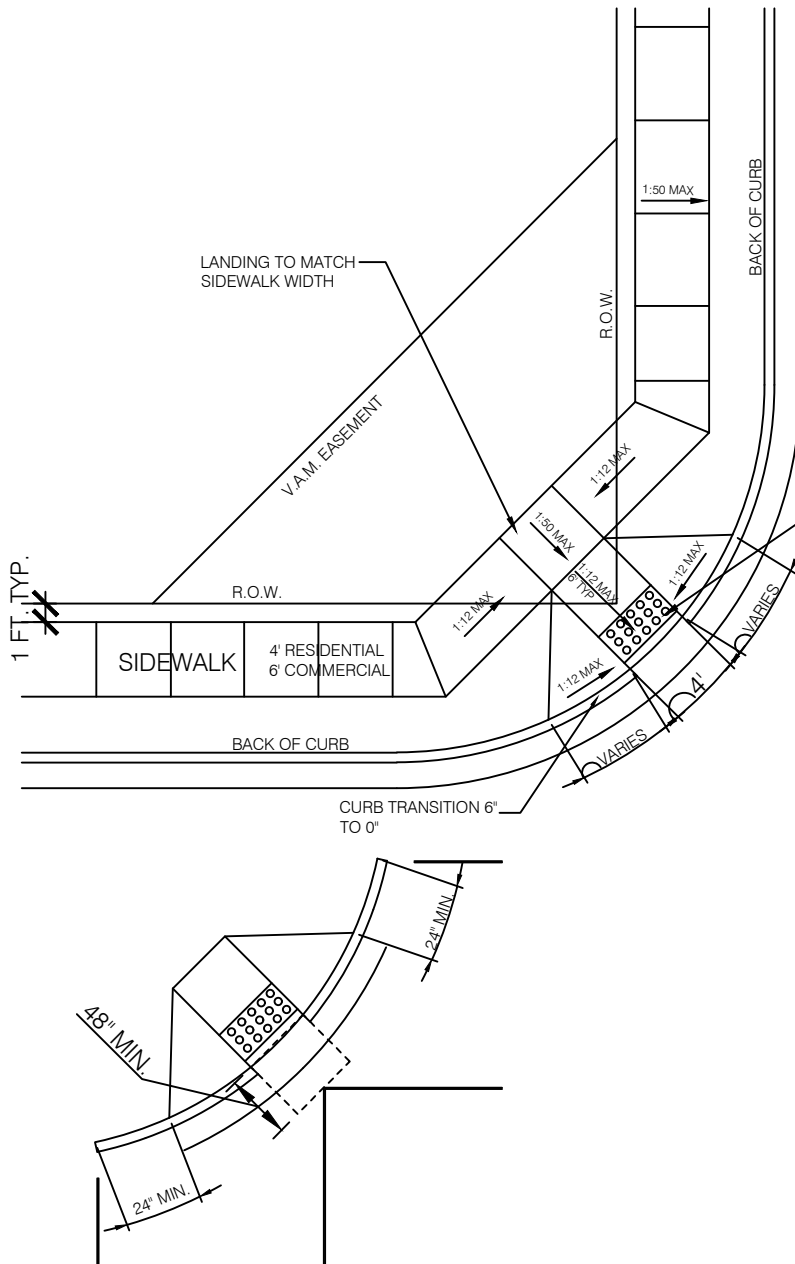
DATE
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PUBLIC WORKS DEPARTMENT

CONCRETE SIDEWALK
WITH PARKWAY

SHEET. #

R29



TYPE "A" RAMP
BARRIER FREE RAMP
AT INTERSECTION TYPICAL
FOR RESIDENTIAL
DEVELOPMENTS

INSTALL DETECTABLE
WARNING SURFACE
A MINIMUM OF 6" FROM
BACK OF CURB. SEE
NOTES

NOTES:

- DIMENSIONS SHOWN ON STANDARD DETAILS ARE APPROXIMATE AND WILL VARY ON EXISTING SIDEWALK AND STREET LONGITUDINAL AND CROSS SLOPES. DIMENSIONS SHOWN ASSUME EXISTING LONGITUDINAL AND CROSS SLOPES ARE LESS THAN 2%. RAMP LOCATIONS WITH LONGITUDINAL OR CROSS SLOPES EXCEEDING 2% SHOULD BE ADDRESSED BY SEPARATE DESIGN DETAILS THAT COMPLY WITH TEXAS ACCESSIBILITY STANDARDS AND MATCH CITY OF WEATHERFORD STANDARD DETAILS IN APPEARANCE AS MUCH AS POSSIBLE.
- RAMPS FOR SIDEWALKS (WITH WIDTHS OTHER THAN SHOWN ON THESE DETAILS) SHOULD BE ADJUSTED TO FIT DIMENSIONS OF THE APPROACH SIDEWALKS CALLED FOR ON PLAN SHEETS.
- FULL LENGTH OF RAMP (SLOPE 1:12) NOT TO EXCEED 6' IN LENGTH.
- THE CONTRACTOR MUST NOTIFY THE CITY PRIOR TO INSTALLATION OF CONCRETE IF THE APPROACH SLOPE OF THE EXISTING SIDEWALK EXCEEDS 1:20 (5%) OR HAS A CROSSFALL GREATER THAN 1:50 (2%) AND NO DESIGN DETAILS ARE PROVIDED FOR THAT SPECIFIC LOCATION.
- CONTRACTOR TO VERIFY ALL SLOPES PRIOR TO POURING CONCRETE. ALL SLOPES SHOULD BE IN COMPLIANCE WITH APPLICABLE STANDARDS FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION.
- LANDING PAD SHALL BE A MINIMUM 48" WIDTH AND 60" LENGTH AND MATCH SIDEWALK WIDTH. NO LANDING PAD SHALL BE LESS THAN THIS DIMENSION UNLESS OTHERWISE DIRECTED BY CITY. CROSS SLOPE SHALL NOT EXCEED 1:50 (2%) AT ANY DIRECTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE SLOPES MEET REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS.
- CONTRACTOR SHALL CONTACT PUBLIC WORKS FOR INSPECTION PRIOR TO ANY PLACEMENT OF CONCRETE IN R.O.W.
- A CURB SHALL BE CONSTRUCTED AT THE BACK OF THE WHEELCHAIR RAMP WHEN ELEVATION DIFFERENCE EXCEEDS 6".
- CURB RAMPS SHALL BE CONSTRUCTED WITH SAME SPECIFICATIONS FOR SIDEWALK CONSTRUCTION UNLESS OTHERWISE NOTED.
- FOR SIDEWALK DETAILS AND SPECIFICATIONS REFER TO SIDEWALK DETAIL SHEET.
- ADA REPLACEABLE (WET SET) COMPOSITE TACTILE WARNING SURFACE UNIT (RED) AVAILABLE FROM ADA SOLUTIONS SHALL BE INSTALLED FOR ALL ADA RAMPS. DETECTABLE WARNING SHALL BE 24" LENGTH BY 48" WIDTH TRUNCATED DOMES THAT ARE TAS APPROVED. CONTRACTOR SHALL PROVIDE A MINIMUM 4" CONCRETE THICKNESS BENEATH THE ADA REPLACEABLE COMPOSITE TACTILE WARNING SURFACE UNIT.

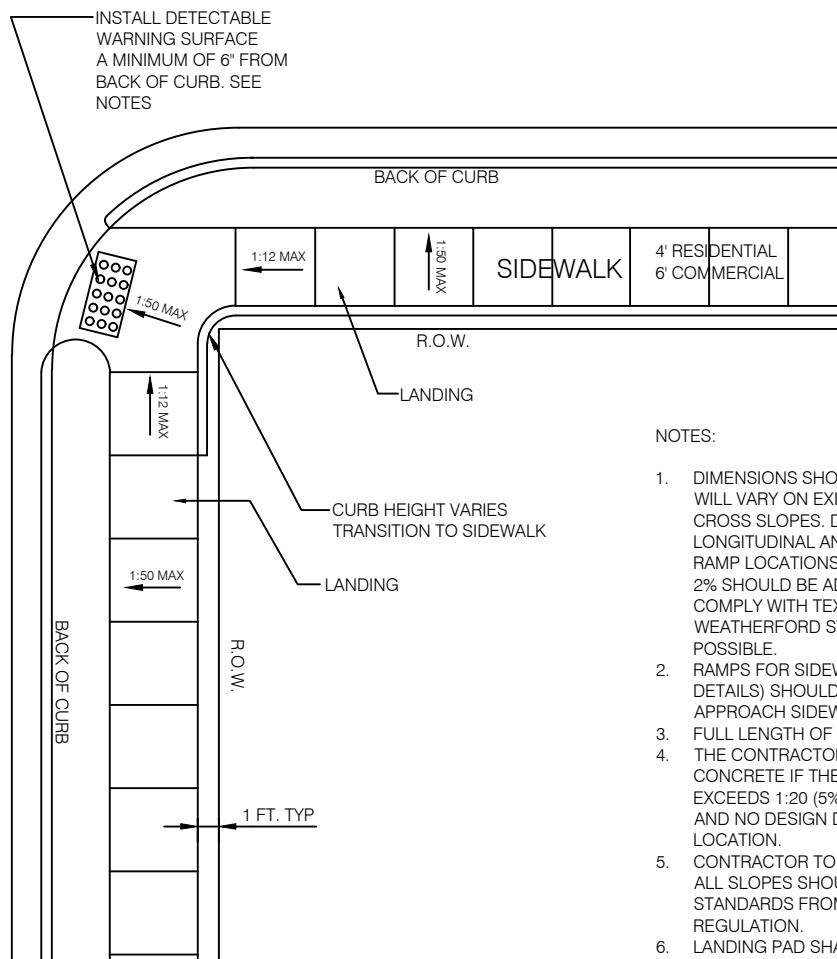
CONVERSIONS
1:12 - APPROXIMATELY 8.3%
1:20 - APPROXIMATELY 5%
1:50 - APPROXIMATELY 1/4" PER 1' OR 2%

DIAGONAL CURB RAMPS REQUIRE A 48" LONG MINIMUM CLEAR SPACE OUTSIDE ACTIVE VEHICLE TRAFFIC LANES AND WITHIN A MARKED CROSSING, WHERE PROVIDED. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE RAMP AND WITHIN THE MARKED CROSSING.

1 CURB RAMP DETAIL

NOT TO SCALE

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
	CITY OF WEATHERFORD	CURB RAMP DETAIL TYPE "A" RAMP	R30



TYPE "B" RAMP
BARRIER FREE RAMP
WITH NO V.A.M. EASMENT

NOTES:

1. DIMENSIONS SHOWN ON STANDARD DETAILS ARE APPROXIMATE AND WILL VARY ON EXISTING SIDEWALK AND STREET LONGITUDINAL AND CROSS SLOPES. DIMENSIONS SHOWN ASSUME EXISTING LONGITUDINAL AND CROSS SLOPES ARE LESS THAN 2%. RAMP LOCATIONS WITH LONGITUDINAL OR CROSS SLOPES EXCEEDING 2% SHOULD BE ADDRESSED BY SEPARATE DESIGN DETAILS THAT COMPLY WITH TEXAS ACCESSIBILITY STANDARDS AND MATCH CITY OF WEATHERFORD STANDARD DETAILS IN APPEARANCE AS MUCH AS POSSIBLE.
2. RAMPS FOR SIDEWALKS (WITH WIDTHS OTHER THAN SHOWN ON THESE DETAILS) SHOULD BE ADJUSTED TO FIT DIMENSIONS OF THE APPROACH SIDEWALKS CALLED FOR ON PLAN SHEETS.
3. FULL LENGTH OF RAMP (SLOPE 1:12) NOT TO EXCEED 6' IN LENGTH.
4. THE CONTRACTOR MUST NOTIFY THE CITY PRIOR TO INSTALLATION OF CONCRETE IF THE APPROACH SLOPE OF THE EXISTING SIDEWALK EXCEEDS 1:20 (5%) OR HAS A CROSSFALL GREATER THAN 1:50 (2%) AND NO DESIGN DETAILS ARE PROVIDED FOR THAT SPECIFIC LOCATION.
5. CONTRACTOR TO VERIFY ALL SLOPES PRIOR TO POURING CONCRETE. ALL SLOPES SHOULD BE IN COMPLIANCE WITH APPLICABLE STANDARDS FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION.
6. LANDING PAD SHALL BE A MINIMUM 48" WIDTH AND 60" LENGTH AND MATCH SIDEWALK WIDTH. NO LANDING PAD SHALL BE LESS THAN THIS DIMENSION UNLESS OTHERWISE DIRECTED BY CITY. CROSS SLOPE SHALL NOT EXCEED 1:50 (2%) AT ANY DIRECTION.
7. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE SLOPES MEET REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS.
8. CONTRACTOR SHALL CONTACT PUBLIC WORKS FOR INSPECTION PRIOR TO ANY PLACEMENT OF CONCRETE IN R.O.W.
9. A CURB SHALL BE CONSTRUCTED AT THE BACK OF THE WHEELCHAIR RAMP WHEN ELEVATION DIFFERENCE EXCEEDS 6".
10. CURB RAMPS SHALL BE CONSTRUCTED WITH SAME SPECIFICATIONS FOR SIDEWALK CONSTRUCTION UNLESS OTHERWISE NOTED.
11. FOR SIDEWALK DETAILS AND SPECIFICATIONS REFER TO SIDEWALK DETAIL SHEET.
12. ADA REPLACEABLE (WET SET) COMPOSITE TACTILE WARNING SURFACE UNIT (RED) AVAILABLE FROM ADA SOLUTIONS SHALL BE INSTALLED FOR ALL ADA RAMPS. DETECTABLE WARNING SHALL BE 24" LENGTH BY 48" WIDTH TRUNCATED DOMES THAT ARE TAS APPROVED. CONTRACTOR SHALL PROVIDE A MINIMUM 4" CONCRETE THICKNESS BENEATH THE ADA REPLACEABLE COMPOSITE TACTILE WARNING SURFACE UNIT.

CONVERSIONS

1:12 - APPROXIMATELY 8.3%
1:20 - APPROXIMATELY 5%
1:50 - APPROXIMATELY 1/4" PER 1' OR 2%

1

CURB RAMP DETAIL

NOT TO SCALE



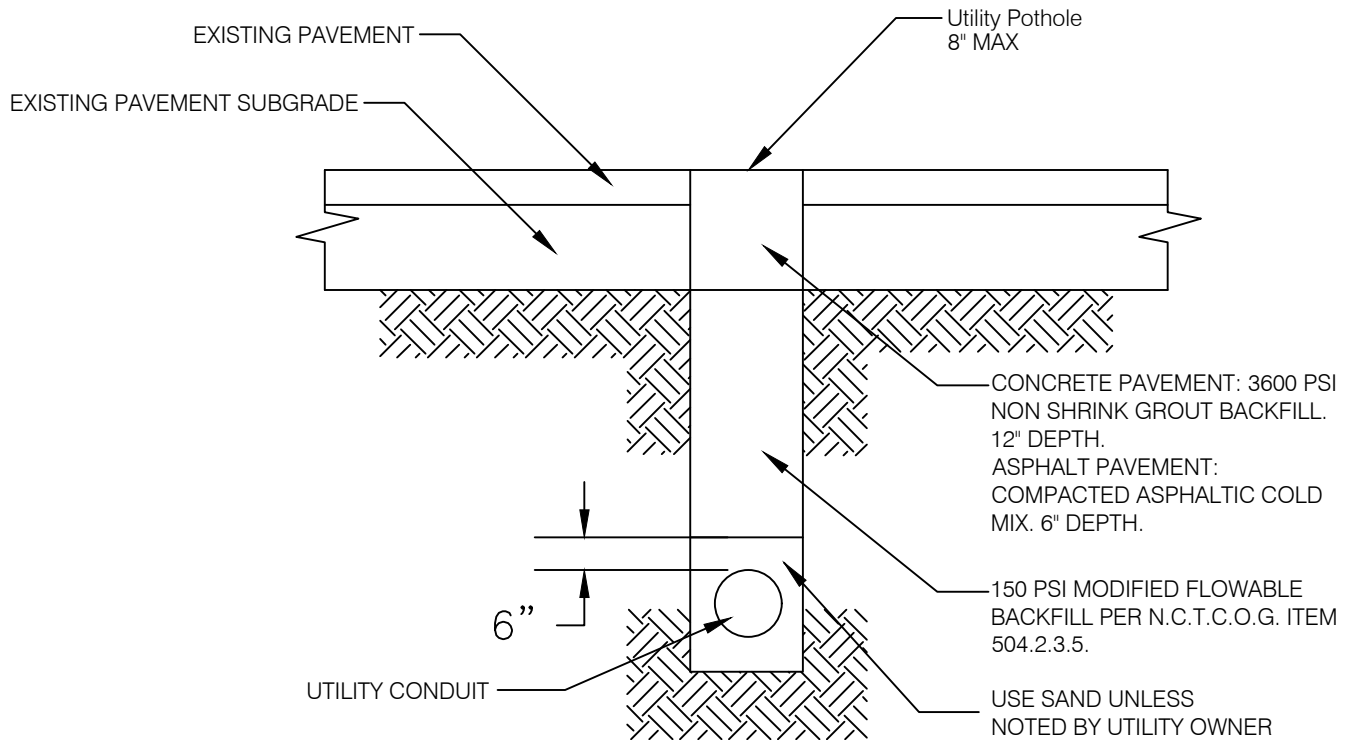
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PUBLIC WORKS DEPARTMENT

CURB RAMP DETAIL
TYPE "B" RAMP

SHEET. #

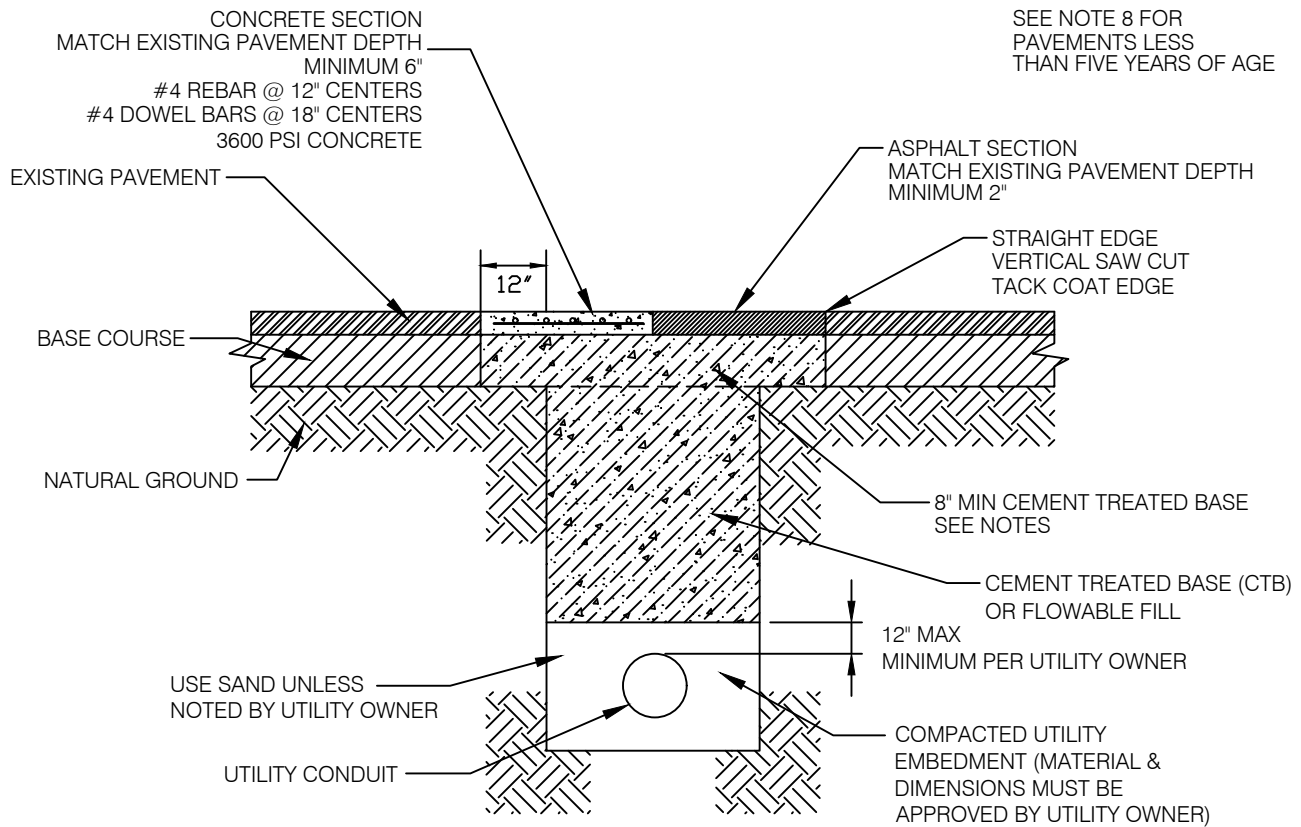
R31



NOTES:

1. A right-of-way construction permit is required for all pavement utility pothole excavations.
2. Keyhole cores through the roadway pavement shall use diamond core drilling equipment. Open pavement cut utility pothole shall be sawcut in a square shape. Any other method shall be approved by the Director of Public Works.
3. Drilled core holes or pavement cuts over 8" shall be repaired per City's utility pavement repair cut detail or as determined by Director.
4. Adjacent utility potholes shall not be closer than 3 feet from each other (edge to edge), shall not be adjacent to pavement crack greater than $\frac{1}{8}$ " wide, and shall not be closer than 4 feet from a tool or construction pavement joint.
5. No more than four multiple utility potholes within a 200 square foot area, as measured within the smallest rectangular area that fully encompasses any four utility potholes, will be allowed unless approved by the Director of Public Works.
6. Keyhole pothole excavation and repair shall be completed within 48 hours.

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
CITY OF WEATHERFORD		PAVEMENT CORE AND UTILITY POTHOLING REPAIR	R33



SEE NOTE 8 FOR
PAVEMENTS LESS
THAN FIVE YEARS OF AGE

NOTES:

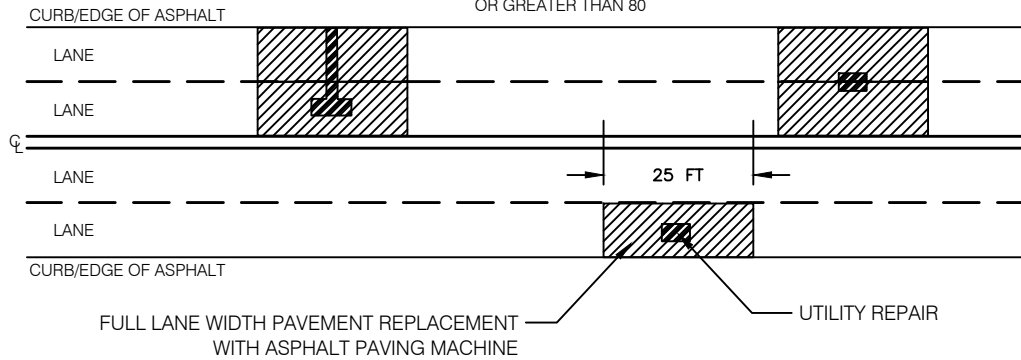
- Utility owner or contractor is required to obtain a Right-of-Way (R.O.W.) Construction permit prior to any work within the public right-of-way including public alleyway and/or easements. All work within City of Weatherford R.O.W. shall be in accordance with Right-of-Way Ordinance 759-2016-05.
- Traffic control plan (TCP) shall be submitted with R.O.W. Construction permit and no work shall start until R.O.W. permit is approved.
- For emergency utility repairs, contractor/owner shall submit R.O.W. Construction permit as soon as possible but no later than 48 hours from initial utility excavation.
- Utility excavations shall be backfilled with Cement Treated Base (CTB) which consist of flex base material with two sacks of cement type I/II per cubic yard mixed in a concrete mixer or transit mixed. CTB may be mixed on site with approval from Director of Public Works or representative. CTB shall be mechanically compacted in lifts no more than 8 inches.
- Temporary asphalt shall be placed over backfill until permanent asphalt patch is completed.
- All permanent pavement repairs shall be square and perpendicular or parallel to the roadway. Refer to N.C.T.C.O.G. Pavement Cut and Repair detail 3070C & 3070D for additional repair limits. All final pavement repairs shall be approved by Public Works Director or representative.
- Final pavement repairs shall be completed within 21 days from completion of repair/work.
- Utility cuts on street pavements less than five years of age or greater than 80 Pavement Condition Index (PCI) refer to detail R35.
- All work shall be per City specifications and N.C.T.C.O.G. Public Works Construction Standards and Specifications, latest edition.
- Utility owner is responsible for final repairs and for any failures up to one year from final inspection of repair.
- Contact Public Works at 817-598-4234 for inspection of backfill and pavement repairs at least 24 hours from beginning work.

NOT TO SCALE

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
	CITY OF WEATHERFORD	TYPICAL UTILITY TRENCH SECTION PAVED AREAS	R34

ASPHALT STREET

ASPHALT PAVEMENT LESS THAN FIVE YEARS OF AGE OR IF
PAVEMENT HAS A PAVEMENT CONDITION INDEX (PCI) EQUAL TO
OR GREATER THAN 80

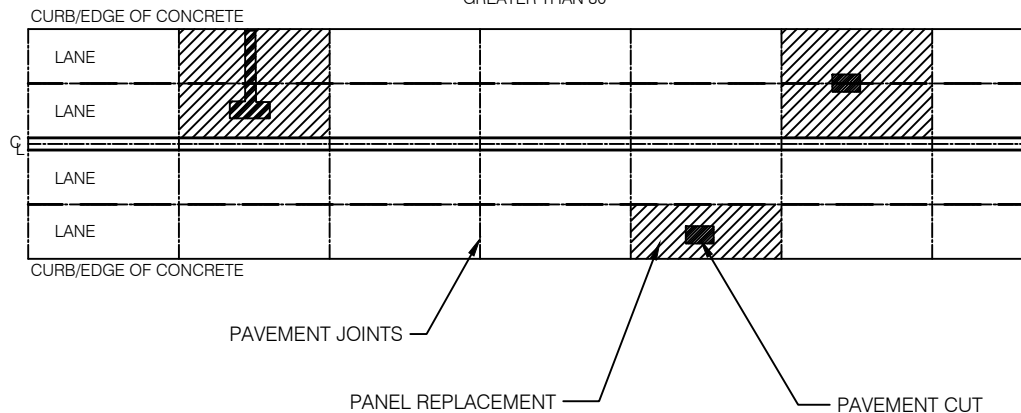


NOTES:

1. REPAIR AND BACKFILL UTILITY CUT PER CITY DETAIL R34.
2. PERMANENT ASPHALT REPLACEMENT SHALL BE PAVED WITH A PAVING MACHINE A MINIMUM OF 25 FEET BY THE WIDTH OF TRAVELING LANE OR AS APPROVED BY TPW DIRECTOR OR REPRESENTATIVE.
3. REMOVE AND REPLACE ASPHALT SURFACE PER N.C.T.C.O.G. SPECIFICATION SECTION 402.4.
4. ASPHALT SECTION SHALL MATCH EXISTING PAVEMENT THICKNESS OR MINIMUM 2 INCHES.
5. FINAL SURFACE MUST MEET A 16 FT STRAIGHT EDGE WITH A MAXIMUM ALLOWABLE DEVIATION OF $\frac{1}{4}$ INCH.
6. IF FOUR OR MORE PAVEMENT CUTS WITHIN THE SAME BLOCK, THEN THE ENTIRE BLOCK OR 600 FEET MAXIMUM, SHALL BE RESURFACED OR AS APPROVED BY PUBLIC WORKS DIRECTOR OR REPRESENTATIVE. THIS ALSO APPLIES FOR TRENCHES OVER 100 LINEAR FEET WITH PERPENDICULAR TRENCHES. LONGITUDINAL TRENCHES WITHIN A TRAFFIC LANE MAY BE REPAIRED PER THIS DETAIL.
7. A DEPOSIT FOR PAVING IMPROVEMENTS WILL BE REQUIRED AT TIME OF PERMITTING PROCESS FOR GUARANTEE OF PERFORMANCE OR UTILITY OWNER MAY ESCROW THE DEPOSIT TO THE CITY FOR IMPROVEMENTS TO BE COMPLETED BY THE CITY OR ITS SUBCONTRACTORS.
8. FINAL PAVEMENT REPAIR SHALL BE COMPLETED WITHIN 45 DAYS FROM COMPLETION OF REPAIR/WORK OR AS APPROVED BY PUBLIC WORKS DIRECTOR OR REPRESENTATIVE.

CONCRETE STREET

CONCRETE PAVEMENT LESS THAN FIVE YEARS OF AGE OR IF
PAVEMENT HAS A PAVEMENT CONDITION INDEX (PCI) EQUAL TO OR
GREATER THAN 80



NOTES:

1. REPAIR AND BACKFILL UTILITY CUT PER CITY DETAIL R34.
2. REMOVE ENTIRE CONCRETE PAVEMENT PANEL AS SHOWN OR AS APPROVED BY PUBLIC WORKS DIRECTOR OR REPRESENTATIVE.
3. REPLACE CONCRETE PANEL WITH 4,000 PSI WITH #4 REBAR AT 12 INCH O.C.E.W.
4. DOWEL 6" INTO EXISTING CONCRETE PAVEMENT WITH 24" LONG #4 REBAR AT 24" CENTERS.
5. CONCRETE SECTION SHALL MATCH EXISTING PAVEMENT THICKNESS OR MINIMUM 6 INCHES.
6. FINAL SURFACE MUST MEET A 12 FT STRAIGHT EDGE WITH A MAXIMUM ALLOWABLE DEVIATION OF $\frac{1}{4}$ INCH.
7. A DEPOSIT FOR PAVING IMPROVEMENTS WILL BE REQUIRED AT TIME OF PERMITTING PROCESS FOR GUARANTEE OF PERFORMANCE OR UTILITY OWNER MAY ESCROW THE DEPOSIT TO THE CITY FOR IMPROVEMENTS TO BE COMPLETED BY THE CITY OR ITS SUBCONTRACTORS.
8. FINAL PAVEMENT REPAIR SHALL BE COMPLETED WITHIN 30 DAYS FROM COMPLETION OF REPAIR/WORK OR AS APPROVED BY PUBLIC WORKS DIRECTOR OR REPRESENTATIVE.

NOT TO SCALE



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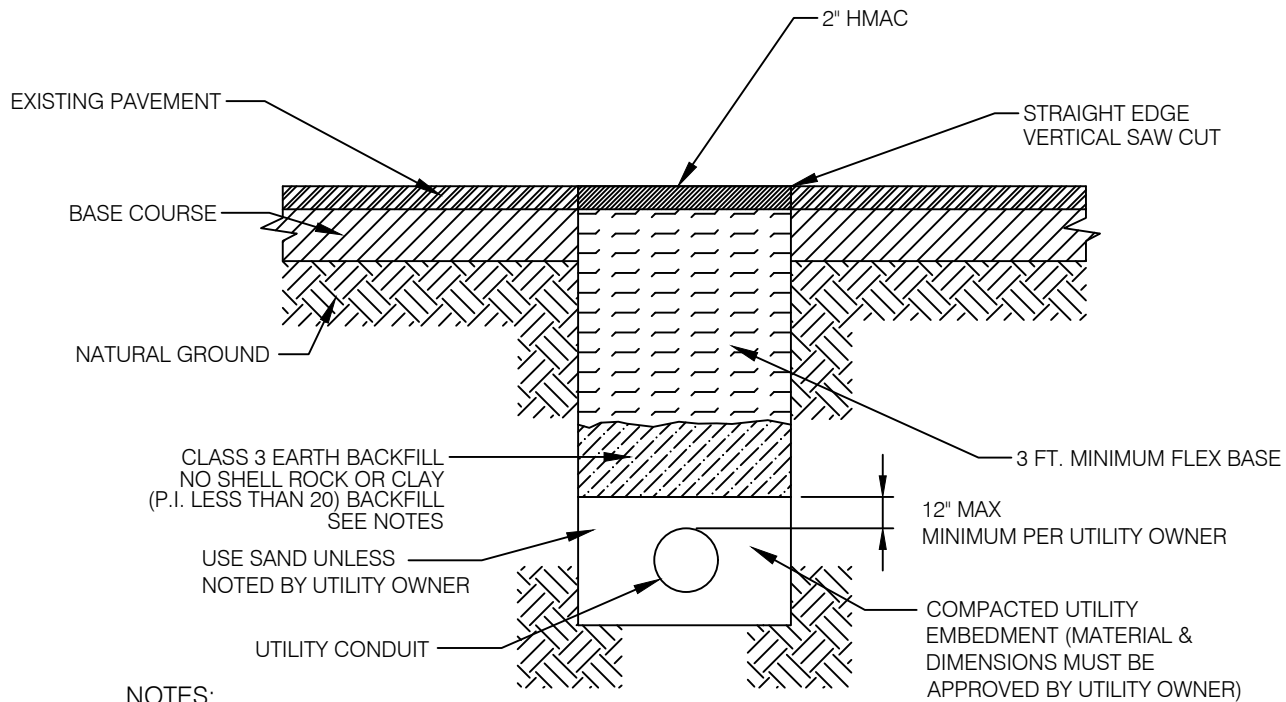
PUBLIC WORKS DEPARTMENT

PAVEMENT CUT & REPAIR
FOR NEW STREETS

SHEET. #

R35

SEE NOTE 7 FOR
PAVEMENTS LESS
THAN FIVE YEARS OF AGE

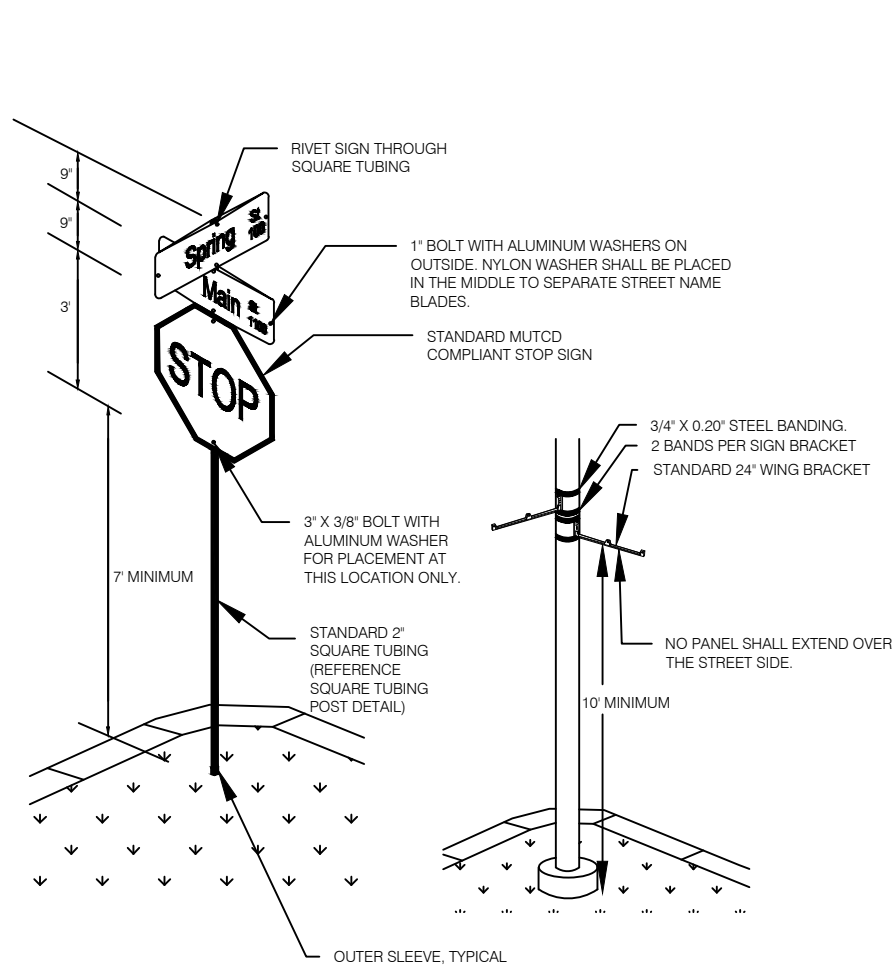


NOTES:

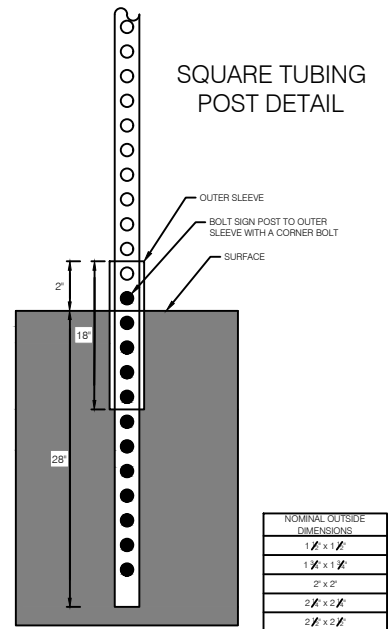
- Utility owner or contractor is required to obtain a Right-of-Way (R.O.W.) Construction permit prior to any work within the public right-of-way including public alleyway and/or easements. All work within City of Weatherford R.O.W. shall be in accordance with Right of Way Ordinance 759-2016-05.
- Traffic control plan (TCP) shall be submitted with R.O.W. Construction permit and no work shall start until R.O.W. permit is approved.
- Flexible base shall be per TXDOT item 247 and be mechanically compacted in 8-inch lifts.
- Class 3 earth backfill shall meet the requirements of Type B backfill per N.C.T.C.O.G. Public Works Construction Standards section 504.2.3.3 except for stone shall be less than two-inch diameter.
- All material within the trench shall be mechanically compacted in lifts no more than 8-inches to 95% compaction per standard proctor. Compaction test report required for every 200 linear feet for each lift and at crossings designated by inspector. Submit compaction reports to Public Works.
- All permanent pavement repairs shall be rectangular and perpendicular or parallel to the roadway. Refer to N.C.T.C.O.G. Pavement Cut and Repair detail 3070C & 3070D for additional repair limits. All final pavement repairs shall be approved by Public Works Director or representative.
- For utility trenches on street pavements less than five years of age or greater than 80 Pavement Condition Index (PCI), refer to detail R35.
- Compact flex base surface to 97% proctor and prime coat per N.C.T.C.O.G. specification 302.3.5.1(a). Final grade shall be level with pavement surface.
- Final pavement repairs shall be completed within 21 days from completion of repair/work.
- All work shall be per City specifications and N.C.T.C.O.G. Public Works Construction Standards and Specifications, latest edition.
- Utility owner is responsible for final repairs and for any failures up to one year from final inspection of repair.
- Contact Public Works at 817-598-4234 for inspection of backfill and pavement repairs at least 24 hours from beginning work.

NOT TO SCALE

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
CITY OF WEATHERFORD		TYPICAL UTILITY TRENCH SECTION PAVED AREAS - CAPITAL PROJECTS	R36



STREET NAME - POST
INSTALLATION



NOTES:

1. ALL POSTS AND ANCHORS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HOT ROLLED CARBON SHEET STEEL, STRUCTURAL QUALITY ASTM DESIGNATION A570-79.
2. ALL POSTS AND ANCHORS SHALL CARRY MINIMUM CERTIFIABLE 60,000 PSI YIELD STRENGTH.
3. ALL POSTS AND ANCHORS SHALL BE MANUFACTURED FROM RAW STEEL, FORMED AND WELDED ON THE CORNER PRIOR TO RECEIVING A TRIPLE COAT PROTECTION OF INLINE HOT-DIPPED GALVANIZED ZINC PER AASHTO M-120 (0.8 OZ. PER SQUARE FOOT) FOLLOWED BY A CHROMATE CONVERSION COATING AND A CROSS-LINKED POLYURETHANE ACRYLIC EXTERIOR COATING. THE INTERIOR SHALL RECEIVE A DOUBLE COAT OF ZINC-BASED ORGANIC COATING, TESTED IN ACCORDANCE WITH ASTM B-117.
4. ALL TOP POSTS MUST BE CAPABLE OF FRACTURING AT THE POINT OF CONNECTION WITH A SINGLE ANCHOR, WHEN IMPACTED, IN SUCH A MANNER THAT THE PIECE INSIDE OF THE ANCHOR CAN BE REMOVED SO AS TO ALLOW TO RECEIVE A NEW TOP POST.
5. THE SHAPE OF ALL POSTS AND ANCHORS SHALL BE SQUARE AND STRAIGHT WITH SMOOTH TUBING WELDED IN ONE CORNER WITH A TOLERANCE THAT PERMITS TELESOPING OF THE NEXT LARGER OR SMALL SIZE, IN 1/8" INCREMENTS.
6. ALL ANCHORS SHALL BE 12 GAUGE WITH HOLES THAT ARE FULLY PERFORATED 1/8" DIAMETER ON 1" CENTERS FOR AT LEAST THE TOP 4" OF THE ANCHOR WHILE BEING TRULY ALIGNED IN THE CENTER OF THE SECTION.
7. ALL TOP POSTS SHALL BE 14 GAUGE WITH HOLES THAT ARE PRE-PUNCHED ON 1" CENTERS FOR THE ENTIRE LENGTH OF THE POST AND TRULY ALIGNED IN THE CENTER OF SECTION.
8. STANDARD OUTSIDE CORNER RADII SHALL BE 1/8" PLUS OR MINUS 1/16".
9. SIGNS TO BE ATTACHED TO POST AT THE DESIRED HEIGHT WITH BOLTS.
10. SIGN BLANK FOR 2 INCH POST INSTALL: 0.08 FEDERAL SPEC. ALUM. (LP/SP INSTALL 0.125 UNDRILLED)
11. FONT: HIGHWAY GOTHIC 'C' OR 'B' (DEPENDING ON LENGTH OF NAME)
12. STREET NAME SIGN SHEETING SHALL BE WHITE 3M DIAMOND GRADE CUBED (DGB) WITH BLUE ELECTRO-CUT (EC) TRANSPARENT FILM AS AN OVERLAY OR AN APPROVED EQUAL.
13. REFER TO DETAIL D3-1G OF THE TEXAS STANDARD HIGHWAY SIGN DESIGN MANUAL FOR ADDITIONAL SPACING REQUIREMENTS.

1

SIGN POST DETAIL

NOT TO SCALE



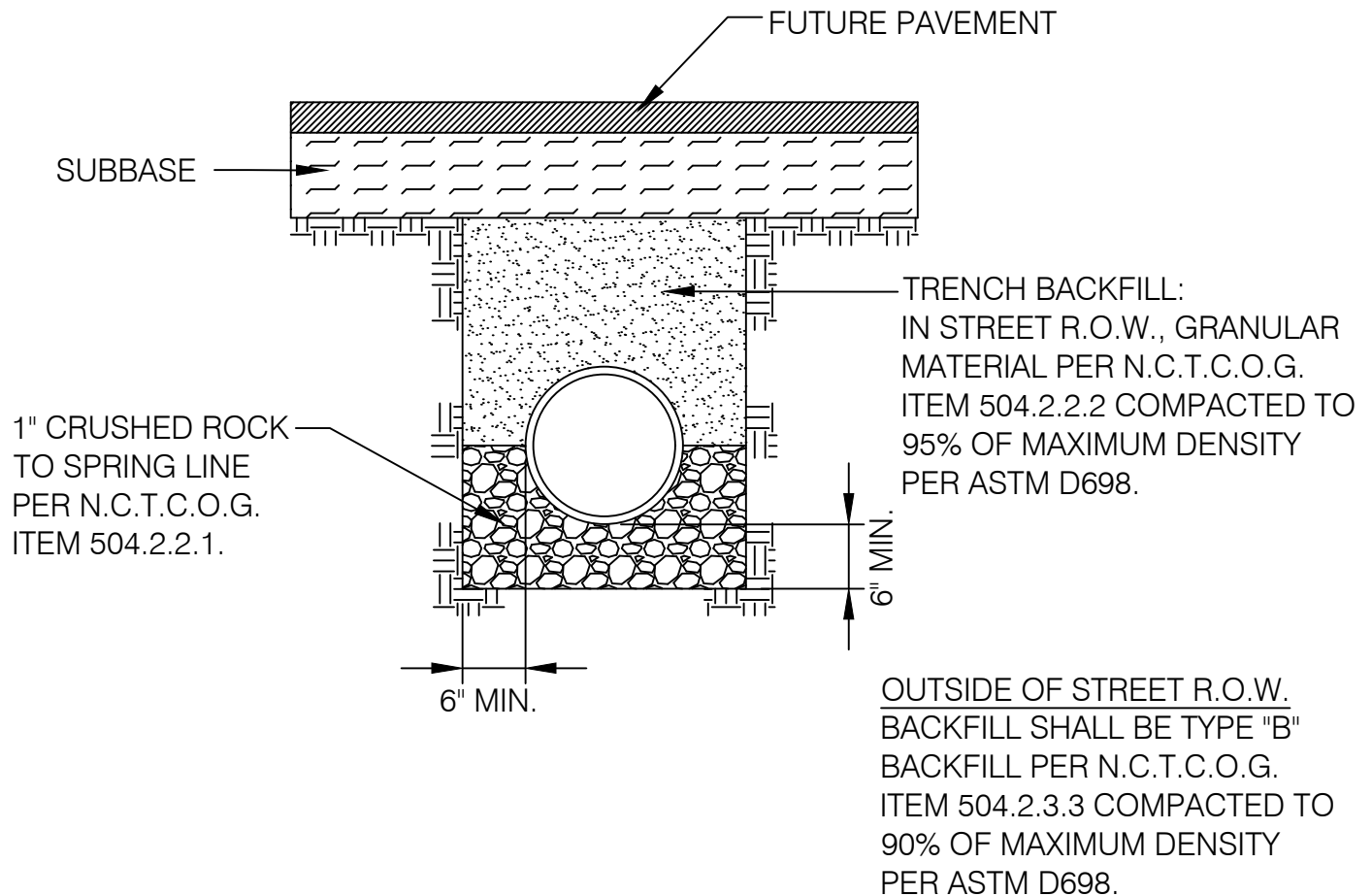
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CITY OF WEATHERFORD	

PUBLIC WORKS DEPARTMENT

STANDARD SIGN POST DETAIL

SHEET. #

R37



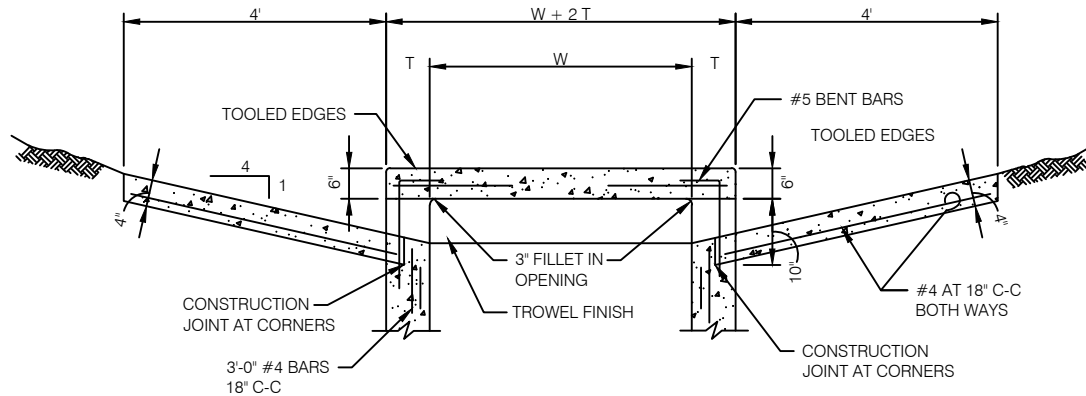
1 RCP STORM SEWER DETAIL

NOT TO SCALE

NOTES:

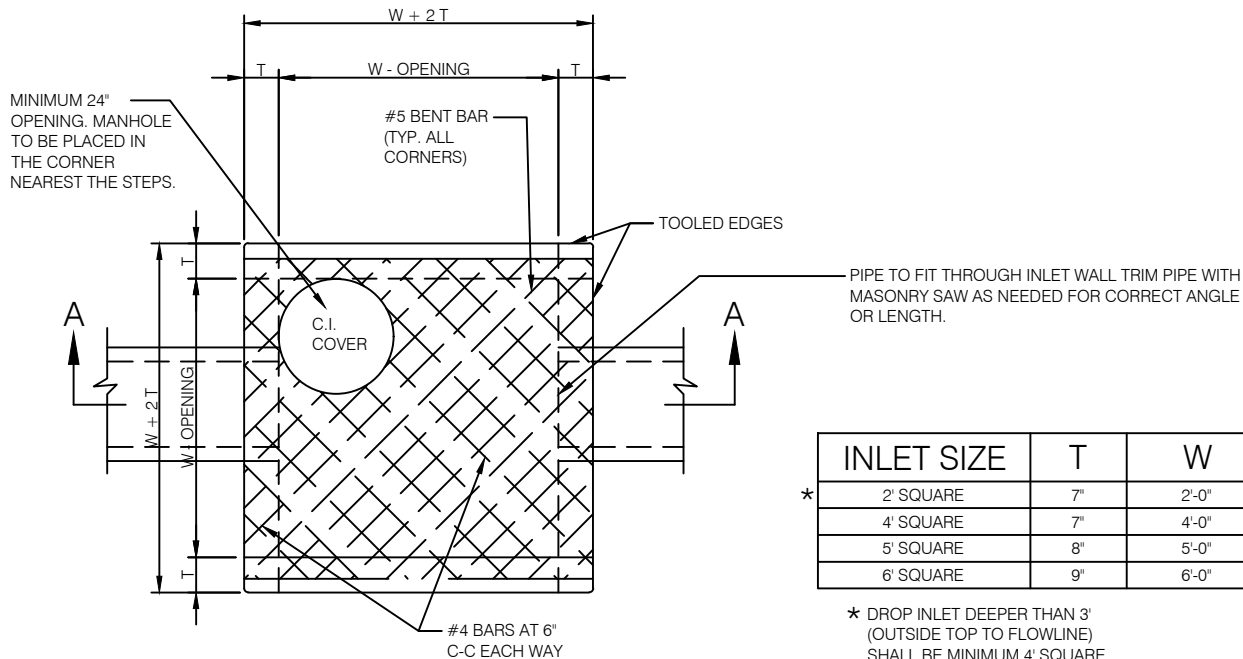
- ITEM NUMBERS REFER TO N.C.T.C.O.G. "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" CURRENT EDITION.
- FOR STORM SEWER MATERIAL AND SPECIFICATION REFER TO CITY OF WEATHERFORD ENGINEERING AND DESIGN CONSTRUCTION MANUAL, LATEST VERSION.
- FOR STORM SEWER INSTALLATION UNDER EXISTING PAVEMENT, REFER TO CITY DETAIL R34 FOR BACKFILL STANDARDS. INSTALL EMBEDMENT AS SPECIFIED IN THIS DETAIL.
- THIS DETAIL APPLIES TO RCP ONLY. ALL OTHER STORM PIPE MATERIALS SHALL BE INSTALLED PER THE MANUFACTURER SPECIFICATIONS.

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY		
CITY OF WEATHERFORD		RCP STORM SEWER DETAIL	D1



2 SECTION "A-A"

NOT TO SCALE



1 PLAN OF TOP SLAB

NOT TO SCALE

NOTES:

- MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF N.C.T.C.O.G. STANDARD SPECIFICATIONS FOR STANDARD CONCRETE MANHOLES. MINIMUM CLASS "A" CONCRETE.
- LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS. UNLESS OTHERWISE NOTED.
- FOR DETAILS OF REINFORCING OF LOWER PORTIONS OF INLET SEE APPROPRIATE SQUARE MANHOLE DETAILS.
- DEPTH OF DROP INLET FROM FINISHED GRADE TO FLOW LINE OF INLET IS VARIABLE. APPROXIMATE DEPTH WILL BE SHOWN ON PLANS AT LOCATION OF INLET.
- ALL STANDARD DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS OTHERWISE SHOWN ON PLANS.
- DECK MAY BE REINFORCED SAME AS 4' SQUARE MANHOLE.
- MANHOLES AND OVER 3' DEPTH SHALL HAVE STEPS.



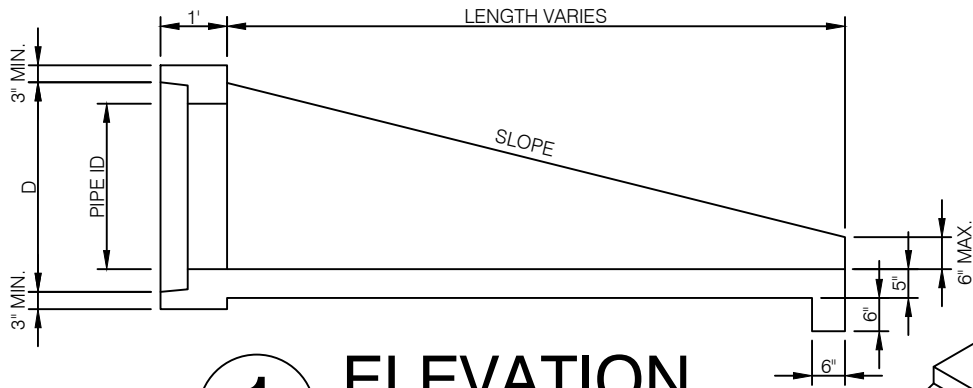
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PUBLIC WORKS DEPARTMENT

DROP INLET
2', 4', 5' OR 6' SQUARE

SHEET. #

D2



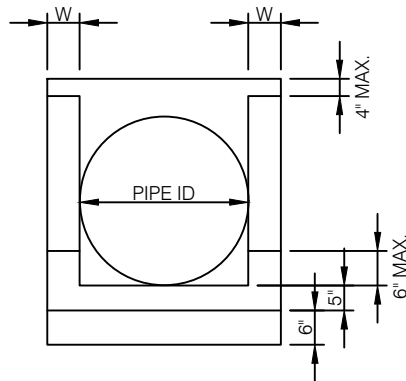
1

ELEVATION

NOT TO SCALE

NOTES:

1. 4500 PSI CONCRETE.
2. #4 GRADE 60 REBAR 9" O.C.E.W.
3. ALL EXPOSED CORNERS ARE CHAMFERED 3/4".
4. SWIFT LIFT ANCHORS, LOCATED IN THE FLOOR, SHALL BE USED FOR HANDLING.
5. GALVANIZED STEEL PIPE RUNNERS ARE AVAILABLE FOR CROSS AND PARALLEL DRAINAGE APPLICATIONS.
6. THIS DETAIL IS ONLY FOR PRE-CAST SAFETY END TREATMENTS.



2

FRONT ELEVATION

NOT TO SCALE

PIPE ID	PIPE OD	SLOPE	D	W
18"	23"	3:1	24"	5"
		4:1		
		6:1		
24"	30"	3:1	31"	5"
		4:1		
		6:1		

PIPE ID	PIPE OD	SLOPE	D	W
30"	37"	3:1	38"	6"
		4:1		
		6:1		
36"	44"	3:1	45-1/2"	6"
		4:1		
		6:1		
42"	51"	3:1	52-3/4"	6"
		4:1		
		6:1		
48"	58"	3:1	60"	8"
		4:1		
54"	65"	3:1	67"	8"

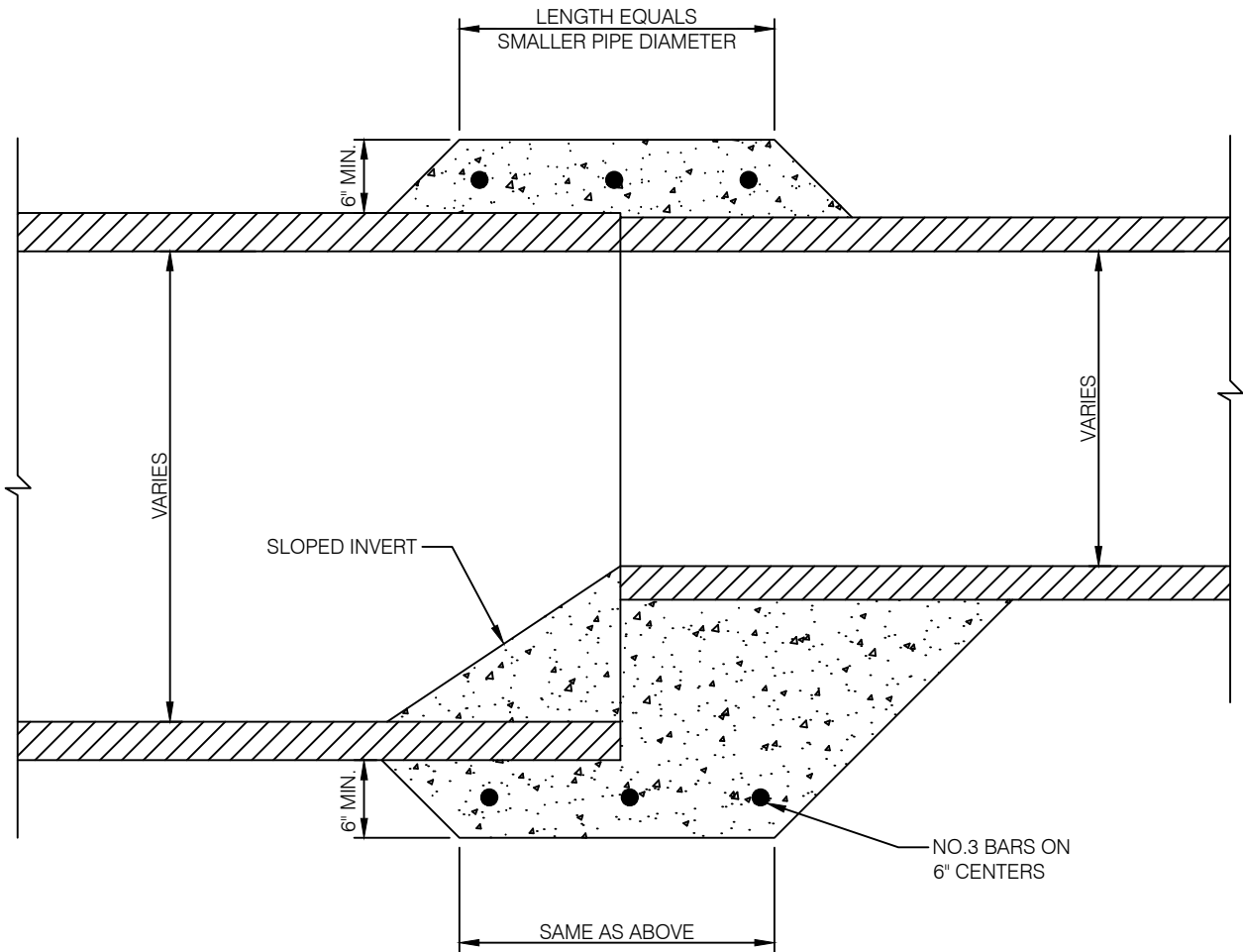


DATE
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CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT
STANDARD STORM SEWER
CULVERT W/SAFETY END TREATMENTS

SHEET. #

D3



1

PIPE COLLAR DETAIL

NOT TO SCALE

NOTES:

1. THIS PROCEDURE/DETAIL WILL ONLY BE USED WHEN A PREFAB REDUCTION IS NOT POSSIBLE.
2. CONCRETE FOR COLLAR WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS OTHER BIDS.
3. CONCRETE SHALL BE 5 SACK 3000 PSI.



DATE
04/2023
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CITY OF WEATHERFORD

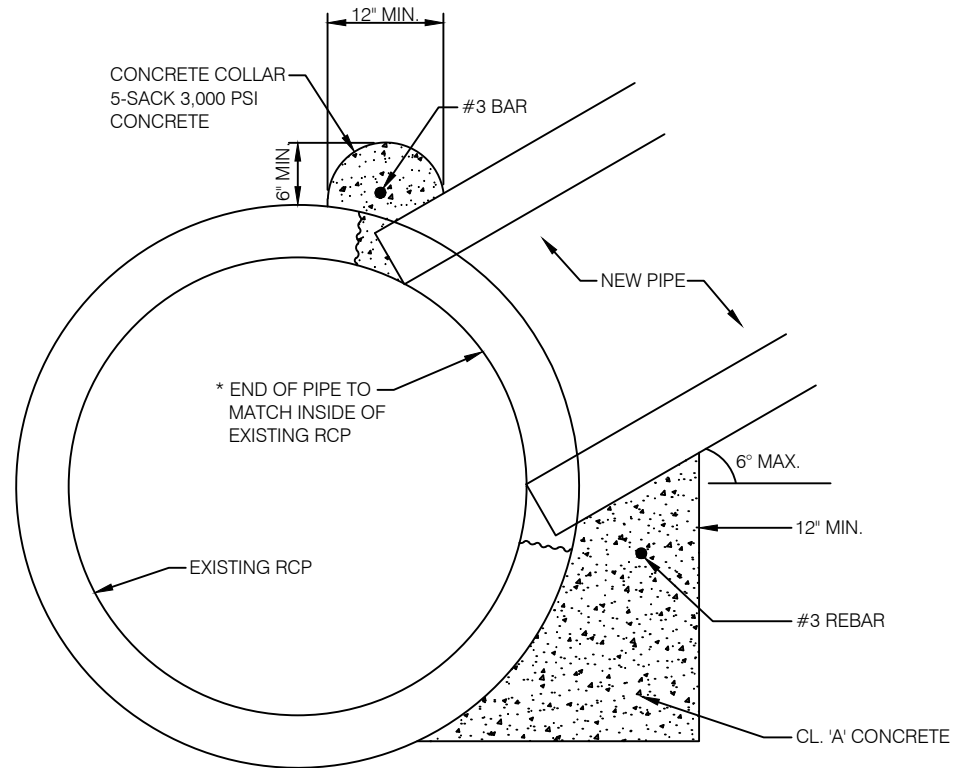
PUBLIC WORKS DEPARTMENT

PIPE COLLAR DETAIL

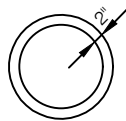
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D4

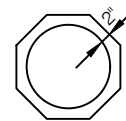
* MAXIMUM DIAMETER OF NEW PIPE EQUALS ONE HALF OF EXISTING PIPE'S DIAMETER.



* REMOVAL OF PLUG FROM EXISTING RCP TO BE ACCOMPLISHED BY USING A MASONRY DRILL AT A SPACING EQUAL TO THE DRILL BIT DIAMETER IN A CIRCULAR PATTERN OR A MASONRY SAW IN AN OCTAGONAL PATTERN PER DETAIL.



PLUG REMOVAL DETAILS



1

STORM DRAIN CONNECTION TO EXISTING RCP

NOT TO SCALE



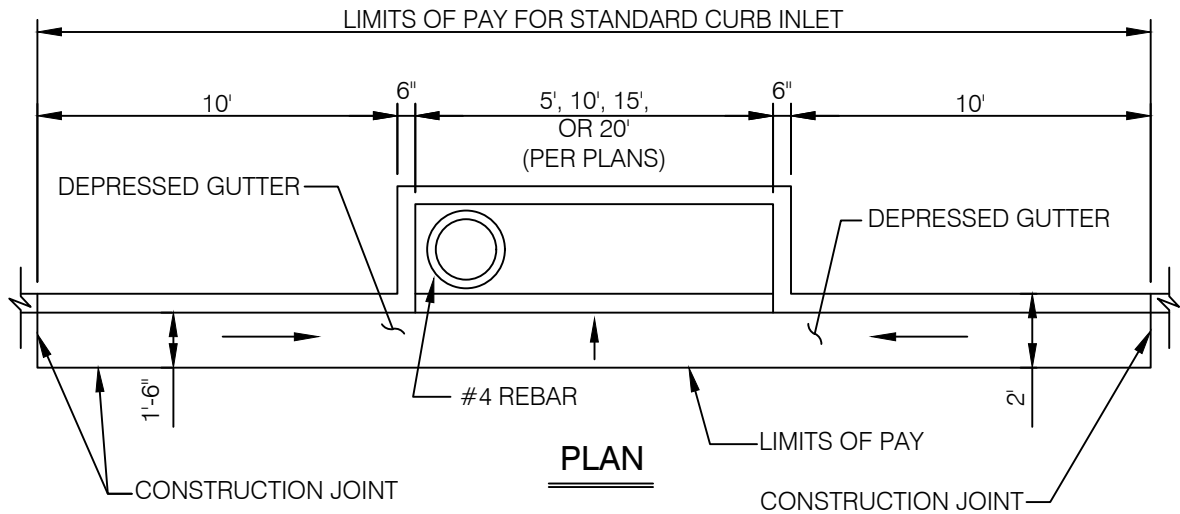
DATE	04/2023
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CITY OF WEATHERFORD	

PUBLIC WORKS DEPARTMENT

STORM DRAIN CONNECTION
TO EXISTING RCP

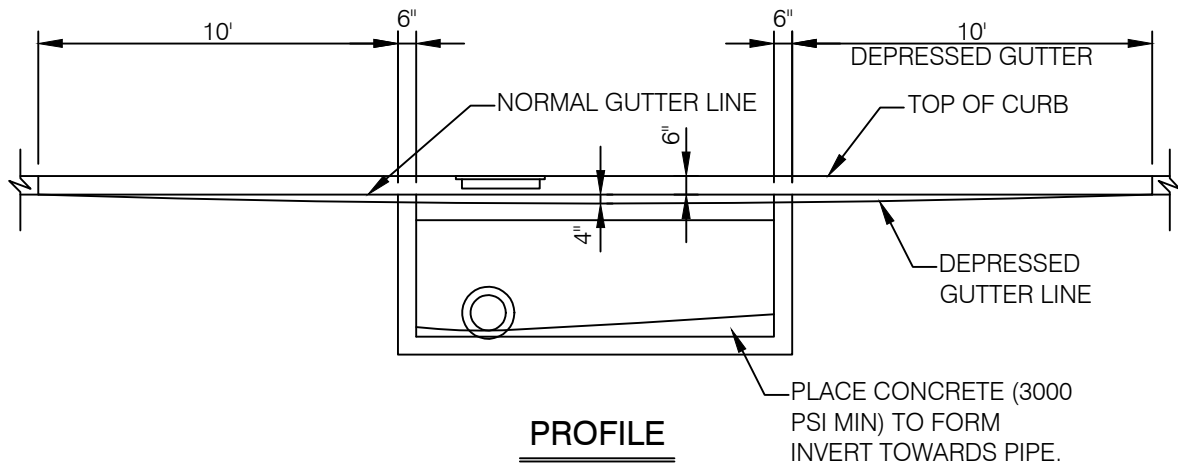
SHEET. #

D5



NOTES:

1. TOP OF INLET TO SLOPE 2% TOWARDS STREET OR PER PLAN
2. CENTER SUPPORT BEAM REQUIRED FOR 15' AND 20' STANDARD CURB INLETS.
3. ADDITIONAL REINFORCING STEEL TO BE PLACED AROUND MANHOLE OPENING.



NOTES:

1. MANHOLE TO BE PLACED AT LOW END OF INLET. TWO MANHOLES ARE REQUIRED ON 15' AND 20' INLETS.

1

STANDARD CURB INLET

NOT TO SCALE



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STANDARD CURB INLET

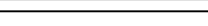
SHEET. #

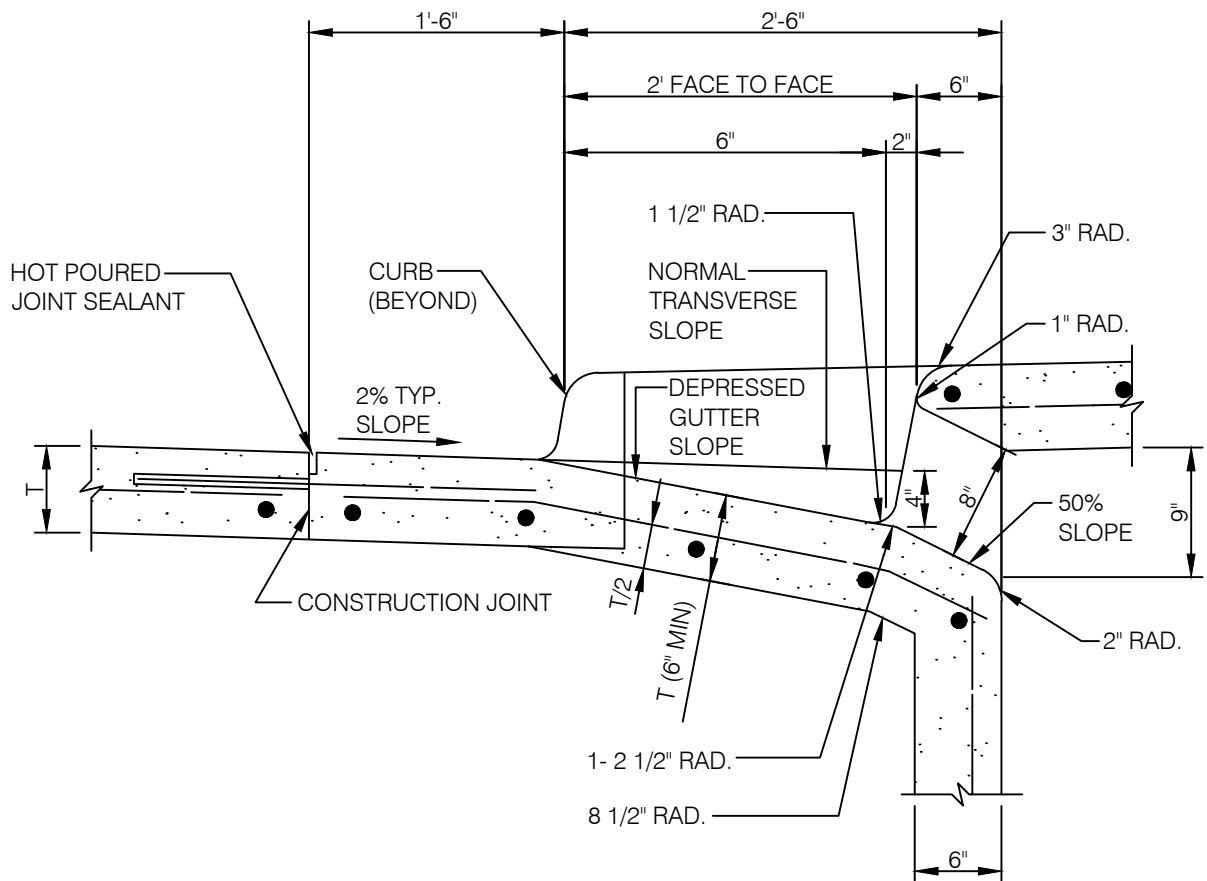
D6



NOT TO SCALE

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		
	DRAWN BY	STANDARD CURB INLET	D7
	CITY OF WEATHERFORD		

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		D8
	DRAWN BY	RECESSED CURB INLET	
	CITY OF WEATHERFORD		



THROAT SECTION

1

RECESSED CURB INLET

NOT TO SCALE



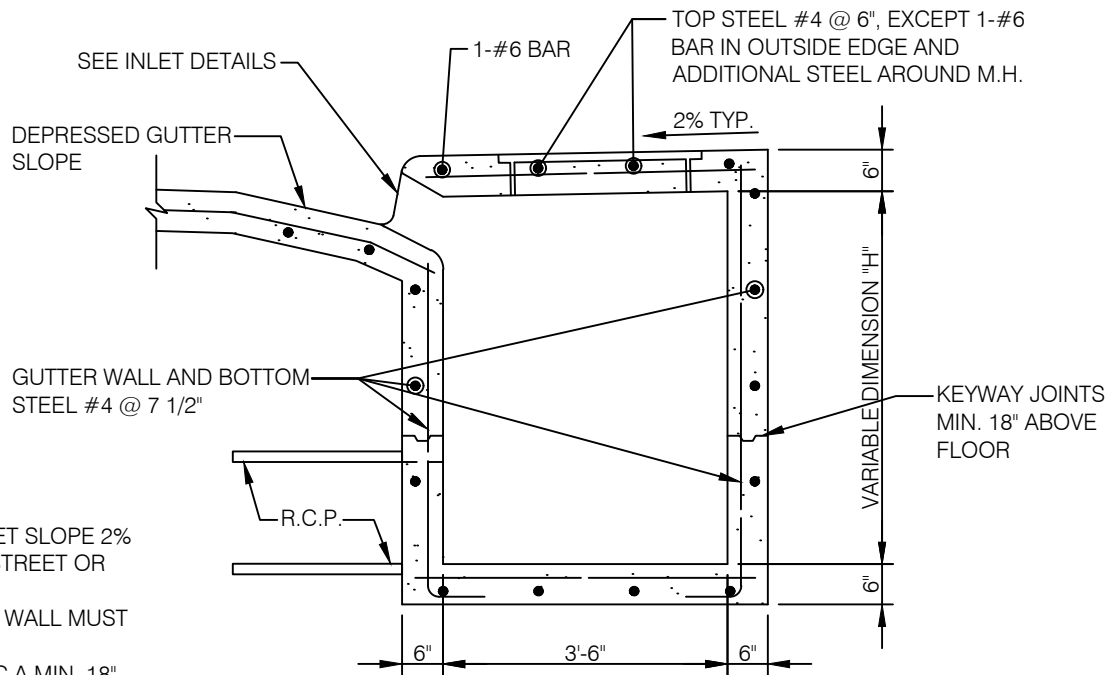
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CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

RECESSED CURB INLET

SHEET. #

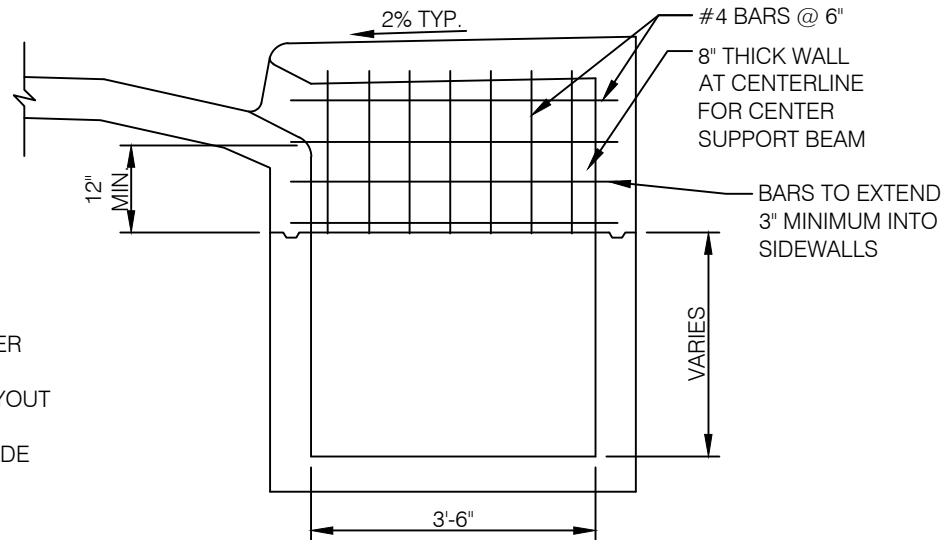
D9



NOTE:

1. TOP OF INLET SLOPE 2% TOWARDS STREET OR PER PLAN.
2. FLOOR AND WALL MUST BE POURED MONOLITHIC A MIN. 18".

INLET SECTION FOR RECESSED AND STANDARD INLETS



NOTE:

1. TOP OF INLET SLOPE 2% TOWARDS STREET OR PER PLAN.
2. REINFORCING STEEL LAYOUT APPLICABLE TO BOTH RECESSED AND ON-GRADE CURB INLETS.

CENTER SUPPORT BEAM FOR 15' & 20' RECESSED AND STANDARD INLETS

1

CENTER SUPPORT BEAM AND INLET SECTION

NOT TO SCALE



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PUBLIC WORKS DEPARTMENT

CENTER SUPPORT BEAM AND INLET SECTION
FOR RECESSED AND STANDARD INLETS

SHEET. #

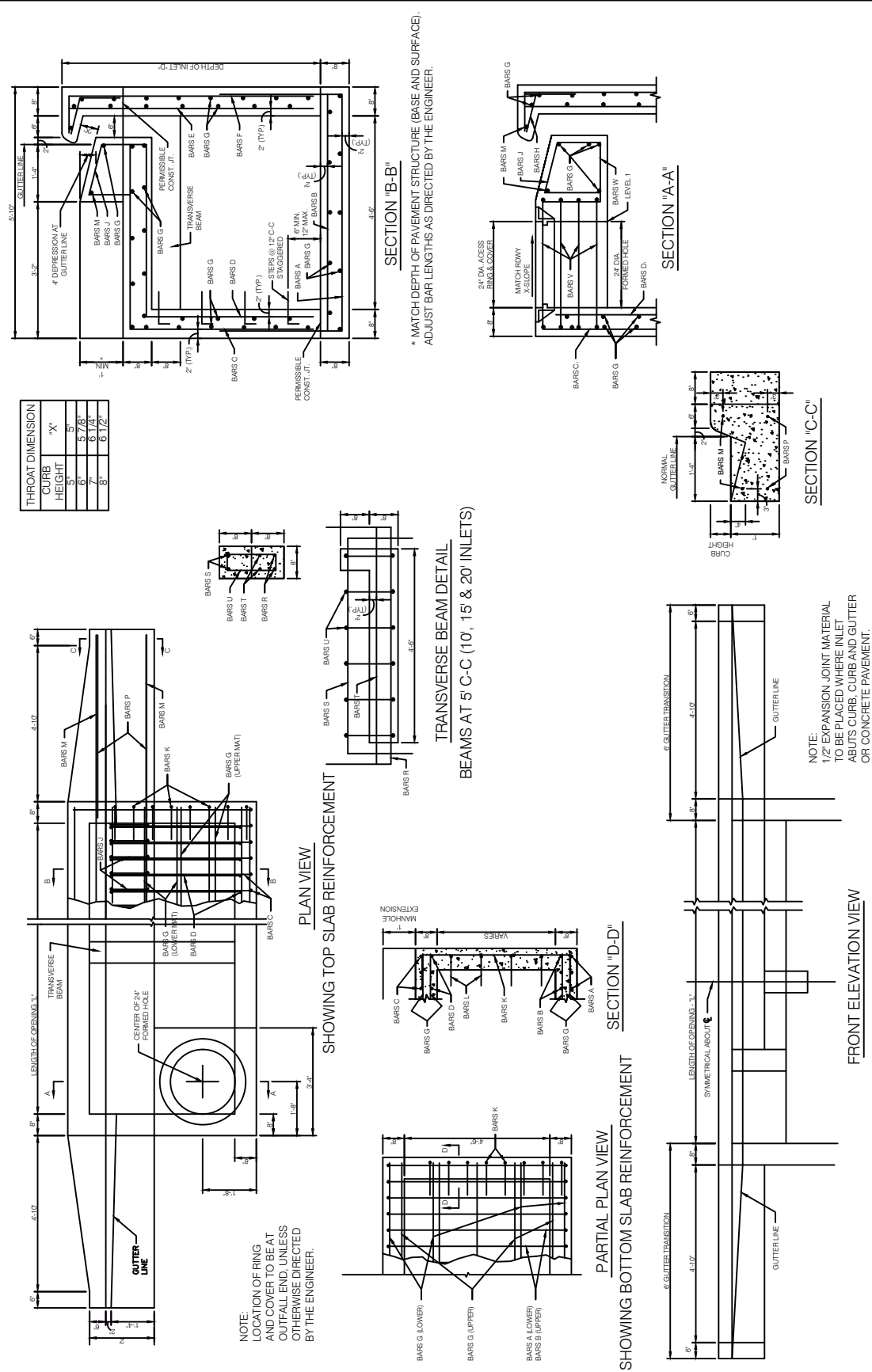
D10



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PUBLIC WORKS DEPARTMENT
TYPE II CURB INLET UNDER PAVEMENT

SHEET. #
D11

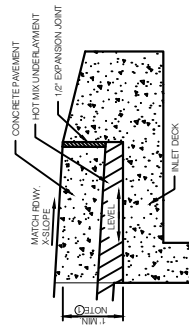


SHEET. #

D11

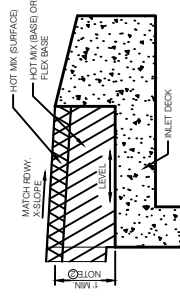
BILL OF REINFORCING STEEL FOR INLET DEPTH OF 6"

#5 BARS A @ 6"	#5 BARS B @ 6"	#4 BARS C @ 6"		#5 BARS D @ 6"		#5 BARS E @ 6"		#5 BARS F @ 6"		#4 BARS G @ 12"		#4 BARS H @ 12"		#4 BARS I @ 12"		#4 BARS J @ 7"		#4 BARS K @ 12"		#4 BARS L @ 12"		#4 BARS M		#4 BARS P		#4 BARS R		#5 BARS S		#4 BARS T		#4 BARS V @ 5"		#4 BARS W @ 5"	#4 BARS X @ 5"									
		NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.	NO.	WT.											
5'	13	151	13	75	6	54	7	38	6	56	7	35	13	77	13	88	46	6	184	7	9	7	15	16	73	8	50	2	168"	22	4	15	0	0	0	0	4	35	6	11				
10'	23	268	23	132	16	143	7	38	16	149	7	35	23	136	23	156	46	11	338	12	15	12	26	16	73	8	50	2	214"	29	4	15	2	26	2	24	2	17	6	13	4	35	6	11
15'	33	384	33	189	26	233	7	38	26	262	7	35	33	192	33	224	46	16	492	17	21	17	37	16	73	8	50	2	266"	36	4	15	4	51	4	48	4	33	12	25	4	35	6	11
20'	43	501	43	247	36	322	7	38	36	335	7	35	43	254	43	292	46	21	642	22	27	22	48	16	73	8	50	2	314"	42	4	15	6	77	6	50	18	38	4	35	6	11		



① THICKNESS OF CONCRETE PAVEMENT PLUS INCREASE DEPTH OF HOT MIX UNDERLAYMENT.

INLET ADJACENT TO CONCRETE PAVEMENT



② THICKNESS OF HOT MIX (SURFACE) PLUS INCREASE DEPTH OF HOT MIX (BASE OR FLEX BASE) OR INCREASE DEPTH OF HOT MIX (BASE OR FLEX BASE OVER INLET DECK).

MAXIMUM THICKNESS = 1'-0"

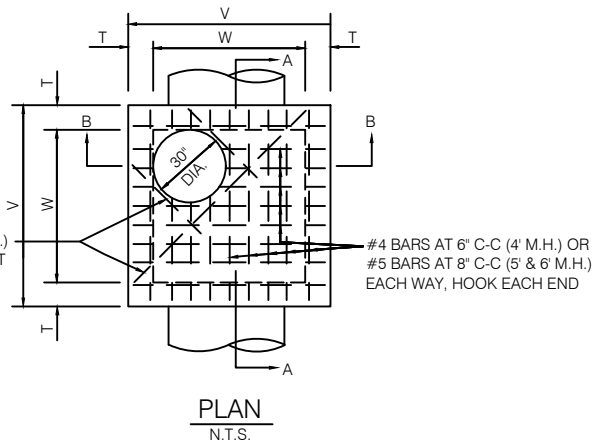
DO NOT PLACE LESS THAN 1' LIFT OF FLEX BASE

INLET ADJACENT TO HOT MIX PAVEMENT

SUMMARY OF QUANTITIES				CONCRETE QUANTITY	
C.Y. CLASS 'A' CONCRETE		LBS. REINFORCING STEEL		PIPE REDUCTION TABLE	REDUCTION TABLE
1" (FT)	1" = 6"	ADD P.L.F.	1" = 6"	ADD P.L.F.	ADD P.L.F.
5'	5.43	0.54	988	96	96
10'	8.31	0.78	1727	154	154
15'	11.19	1.03	2467	211	211
20'	14.07	1.28	3206	268	268

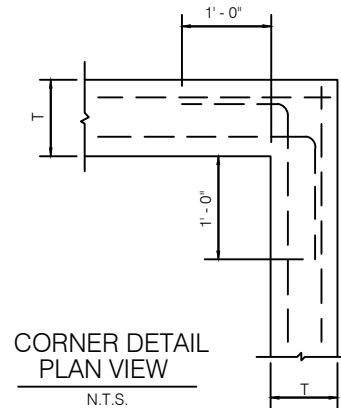
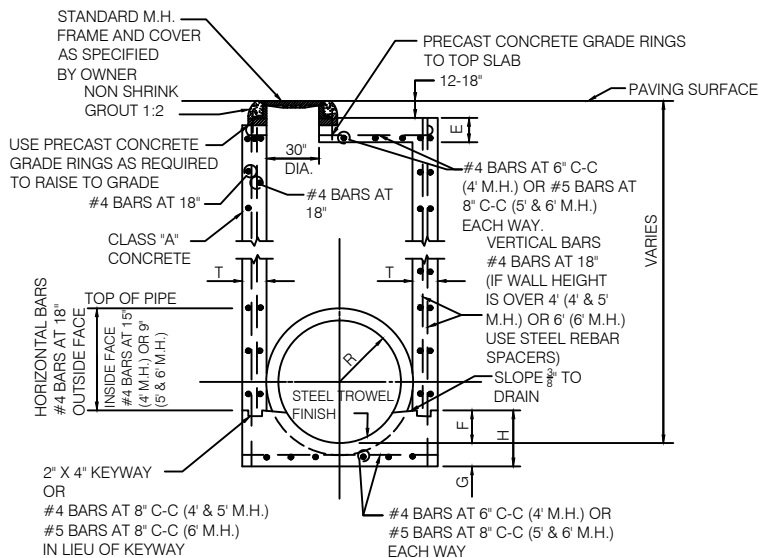
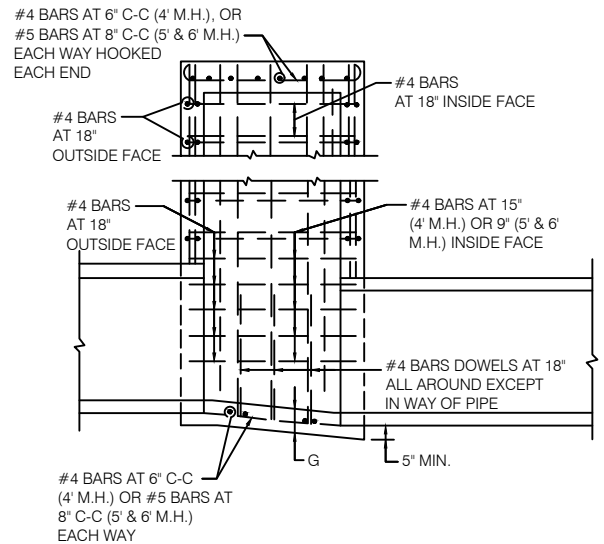
PIPE REDUCTION TABLE	REDUCTION TABLE
DIAMETER	REDUCTION TABLE
15"	0.04
21"	0.06
24"	0.09
27"	0.14
30"	0.17
33"	0.23
36"	0.26
42"	0.35

- GENERAL NOTES:
- ALL CONCRETE SHALL BE CLASS 'A'.
 - CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
 - DIMENSIONS RELATED TO REINFORCING STEEL ARE TO THE CENTERS OF BARS.
 - FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE:
 - UNDERLAYS.
 - CAST IRON IRONING AND COVER SHALL CONFORM TO ITEM 4.71.
 - DEPTHS OTHER THAN THOSE SHOWN MAY BE USED WHENEVER NECESSARY. QUANTITIES FOR OTHER DEPTHS WITHIN THE LIMITS OF THE TABLES MAY BE FOUND BY INTERPOLATION.
 - DURING STAGE 1 CONSTRUCTION, INLETS WILL NOT BE CONSTRUCTED ABOVE SUBGRADE ELEVATION UNLESS PERMISSION IS GRANTED BY THE ENGINEER.
 - TEMPORARY WOOD COVER SHALL BE INSTALLED AFTER STAGE 1 IS COMPLETED, AND WILL REMAIN IN PLACE UNTIL STAGE 2 BEGINS.
 - THE LOCATION OF INLET AS SHOWN IN THE PLANS REFERS TO THE CONTROL POINT AT THE GUTTER LINE AND MID-POINT OF THE INLET.
 - IF CONCRETE PAVEMENT IS PLACED WITHOUT UNDERLAYMENT.
 - PLACE BOND BREAKER (3 LAYERS OF 30# ROOFING FELT OR 1/2" EXPANSION JOINT MATERIAL) BETWEEN INLET DECK AND CONCRETE PAVEMENT. A SEALED 1/2" EXPANSION JOINT SHALL BE PLACED ALONG ALL VERTICAL FACES ADJACENT TO CONCRETE PAVEMENT.
 - CONCRETE PAVEMENT: SEAL JOINT WITH CLASS 3.4.5 OR 7 JOINT SEALANT.



M.H. SIZE (W)	V	T	E	F	G	H
4'	5' - 4"	8"	6"	9"	6"	1' - 3"
5'	6' - 4"	8"	6"	12"	8"	1' - 8"
6'	7' - 6"	9"	9"	16"	10"	2' - 2"

TABLE OF DIMENSIONS
N.T.S.



NOTES:

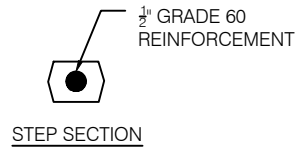
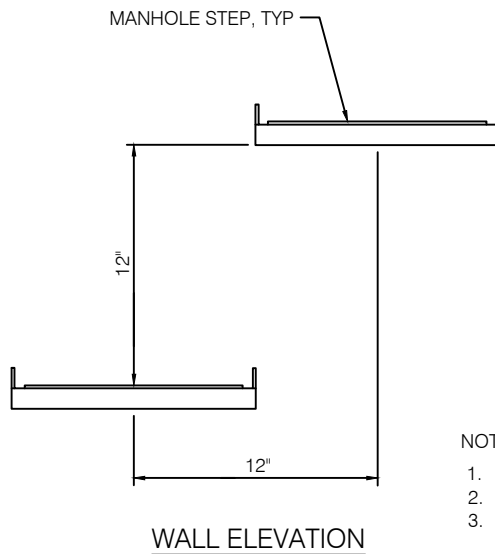
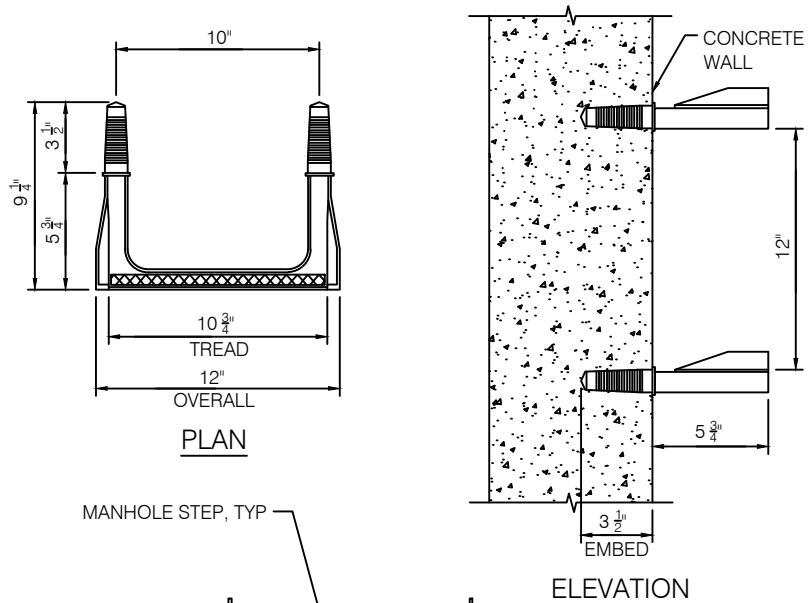
1. SLOPE INVERT OF MANHOLE AS INDICATED ON PLAN-PROFILE SHEET.
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACE SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL BE 5 SACK 3000 PSI.



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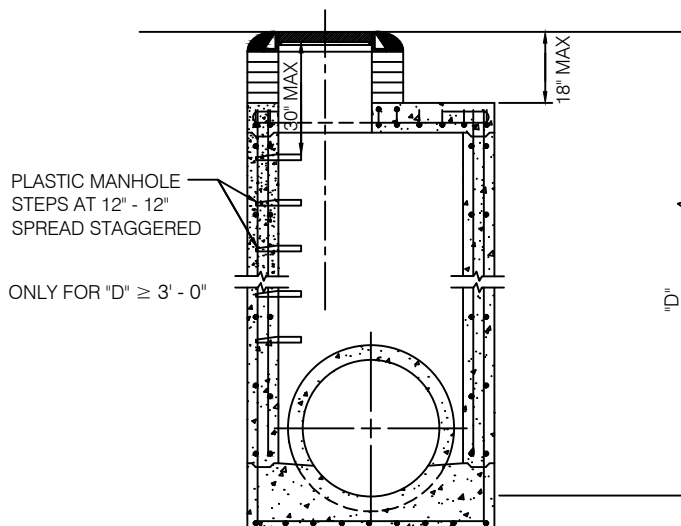
PUBLIC WORKS DEPARTMENT
STORM WATER MANHOLE

SHEET. #
D13



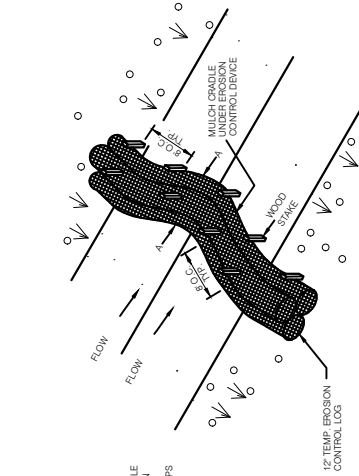
NOTES:

1. ALL STEPS SHALL BE TIGHT AND FIRMLY EMBEDDED.
2. STEPS SHALL BE PARALLEL.
3. ALL STEPS WITHIN A STRUCTURE SHALL BE OF THE SAME DESIGN, SIZE, AND TYPE.
4. DRILLED HOLES FOR STEPS SHALL BE CLEAN AND DRY. STEPS SHALL BE ATTACHED TO WALL WITH EPOXY.



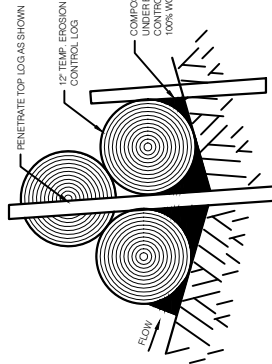
PLANS SHEET LEGEND

- DIST
- DROP INLET SEDIMENT TRAP
- DIST
- DITCH LINE SEDIMENT TRAP
- BOCIST
- BACK OF CURB INLET SEDIMENT TRAP
- ROW-ST
- RIGHT-OF-WAY SEDIMENT TRAP
- CIST
- CURB INLET SEDIMENT TRAP



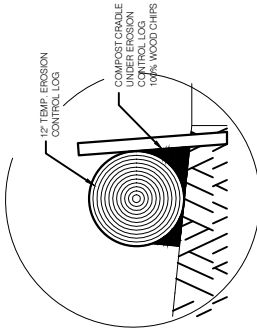
DITCH LINE SEDIMENT TRAP

DIST

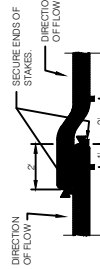


DITCH LINE SEDIMENT TRAP A-A

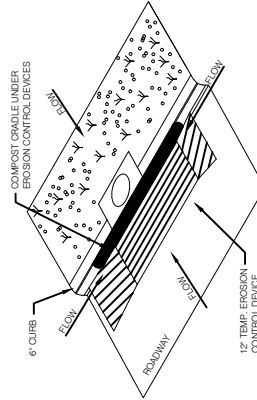
DIST



COMPOST CRADLE

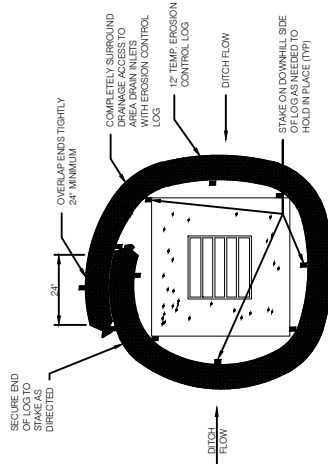


LAP DETAIL



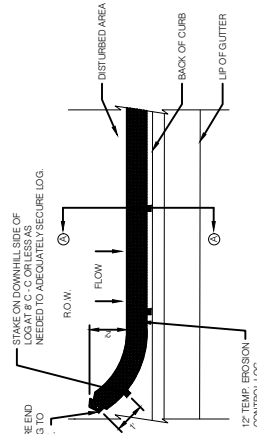
CURB INLET SEDIMENT TRAP

G-ST

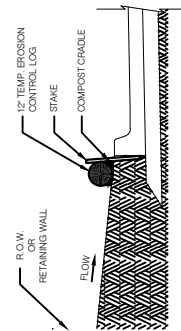


DROP INLET SEDIMENT TRAP

DIST



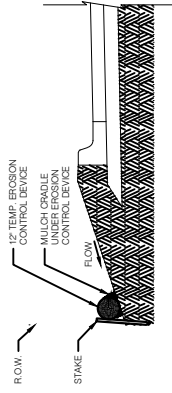
PLAN VIEW



SECTION A-A

BACK OF CURB INLET SEDIMENT TRAP

BOCIST



SECTION B-B

RIGHT-OF-WAY SEDIMENT TRAP

ROW-ST

SEDIMENT BASIN & TRAP USAGE GUIDELINES

- A SEDIMENT TRAP MAY BE USED TO PRECIPITATE SEDIMENT OUT OF RUNOFF DRAINING FROM AN UNSTABILIZED AREA.
- TRAPS: THE DRAINAGE AREA FOR A SEDIMENT TRAP SHOULD NOT EXCEED 5 ACRES. THE TRAP CAPACITY SHOULD BE 1800 CF/ACRE (0.5" OVER THE DRAINAGE AREA).
- SEDIMENT TRAPS SHOULD BE PLACED IN THE FOLLOWING LOCATIONS:
 1. IMMEDIATELY PRECEDING DRAIN INLETS
 2. JUST BEFORE THE DRAINAGE ENDS AT A WATER COURSE
 3. JUST BEFORE THE DRAINAGE LEAVES THE RIGHT-OF-WAY
 4. JUST BEFORE THE DRAINAGE LEAVES THE CONSTRUCTION LIMITS WHERE DRAINAGE FLOWS AWAY FROM THE PROJECT
- THE TRAP SHOULD BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 1/2 OR THE SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1" WHICHEVER IS LESS.
- CLEANING AND REMOVAL OF ACCUMULATED SEDIMENT DEPOSITS IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.

GENERAL NOTES

1. BACKLOG OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 30' FOR 12" DIAMETER LOGS. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE LOGS. UNLESS OTHERWISE DIRECTED, LOGS SHALL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
2. TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION, STAKES SHALL BE 2" X 12" WOOD.
3. 4" PROTRUSION ABOVE LOG.
4. COMPOST CRADLE MATERIAL IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.
5. EROSION CONTROL SHALL BE REMOVED AFTER VEGETATION IS ESTABLISHED.

SHEET. #

D13

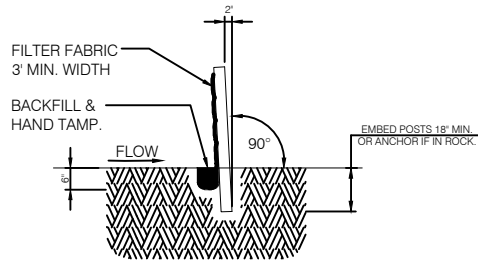


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PUBLIC WORKS DEPARTMENT
TEMPORARY EROSION CONTROL

SHEET. #

D15



SECTION A-A

GENERAL NOTES:

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.
2. EROSION CONTROL SHALL BE REMOVED AFTER VEGETATION IS ESTABLISHED.

PLAN SHEET LEGEND

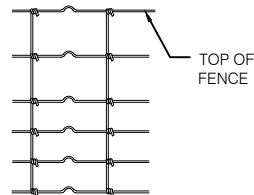
SEDIMENT CONTROL FENCE ——— SCF ———

SEDIMENT CONTROL FENCE USAGE GUIDELINES

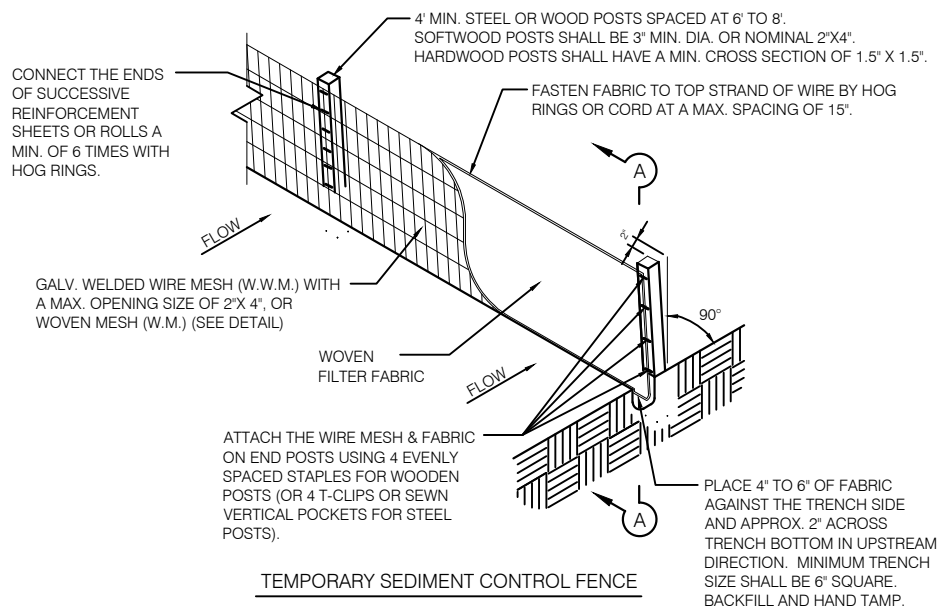
A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE TO 100 GPM/FT². SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

GALV. HINGE JOINT KNOT WOVEN MESH (12.5 GA. MIN.) REQUIRES A MINIMUM OF FIVE HORIZONTAL WIRES SPACED AT A MAX. 12 INCHES APART AND ALL VERTICAL WIRES SPACED AT A MAX. 12 INCHES APART.



HINGE JOINT KNOT WOVEN MESH (OPTION)



TEMPORARY SEDIMENT CONTROL FENCE

SCF



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04/2023
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CITY OF WEATHERFORD

PUBLIC WORKS DEPARTMENT

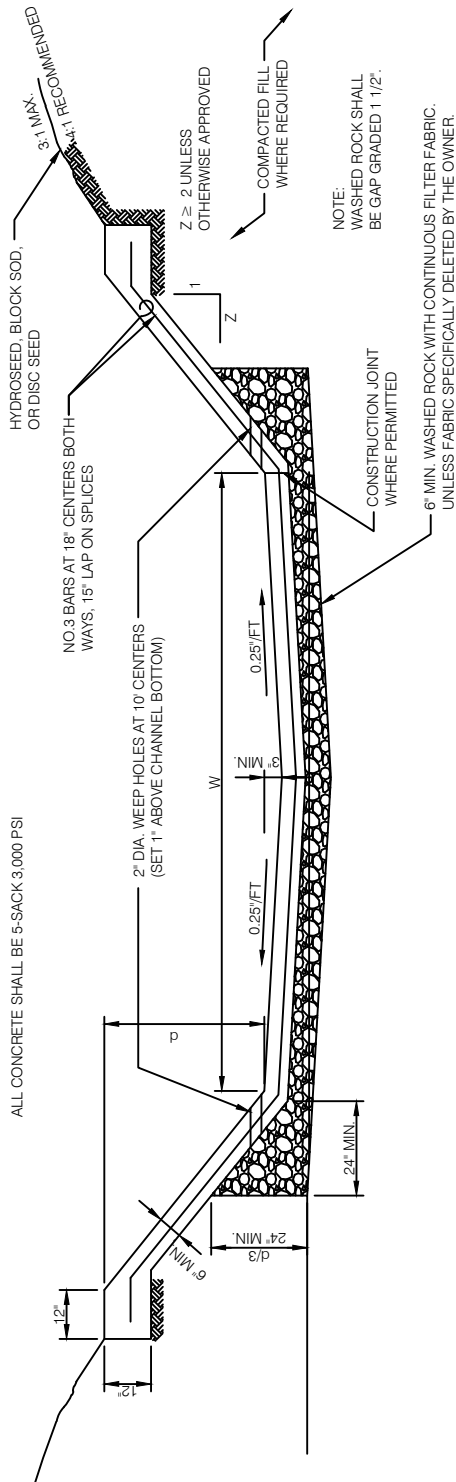
TEMPORARY EROSION, SEDIMENT AND WATER
POLLUTION CONTROL MEASURES FENCE

SHEET. #

D16

FILL AREAS SHALL BE COMPACTED TO 95% STD. PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT PRIOR TO CHANNEL EXCAVATION.

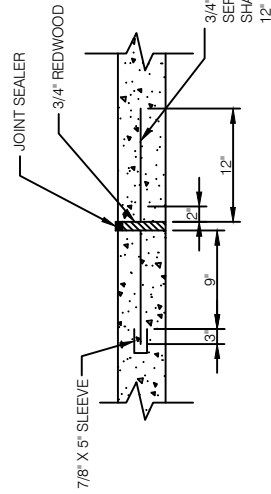
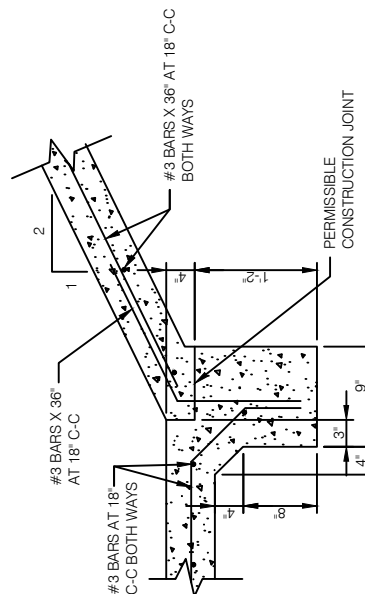
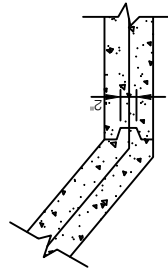
ALL CONCRETE SHALL BE 5-SACK 3,000 PSI



NOTE:
WASHED ROCK SHALL
BE GAP GRADED 1 1/2\".

CONSTRUCTION JOINT
WHERE PERMITTED

6\" MIN. WASHED ROCK WITH CONTINUOUS FILTER FABRIC,
UNLESS FABRIC SPECIFICALLY DELETED BY THE OWNER.



SHEET. #

D15



DATE
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PUBLIC WORKS DEPARTMENT

FULL CHANNEL LINING
CONCRETE REINFORCED

SHEET. #

D17

GENERAL NOTES:

1. ALL CONCRETE SHALL BE 5-SACK 3,000 PSI.
2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 AND AMERICAN MADE.
3. CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER PIPE.
6. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2".
7. ROCK FOUNDATION SHALL BE USED DURING PREFABRICATED INLET BOX INSTALLATION. 6" FOR BACKFILL WITH FLOWABLE FILL TO FILL VOIDS OR COMPACT WITH SELECT SURPLUS EXCAVATION COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR DENSITY.
8. STANDARD CURB INLET SIZES ARE 5', 10', 15', OR 20'. NO OTHER SIZES WILL BE ALLOWED WITHOUT APPROVAL FROM CITY ENGINEER.
9. MANHOLE RING SHALL BE CHAINED TO RING.
10. MANHOLES AND CURB INLETS DEEPER THAN 3' SHALL HAVE STEPS.

	DATE	PUBLIC WORKS DEPARTMENT	SHEET. #
	04/2023		D18
	DRAWN BY	GENERAL NOTES	
	CITY OF WEATHERFORD		