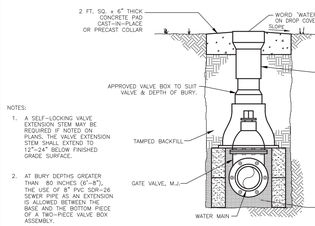
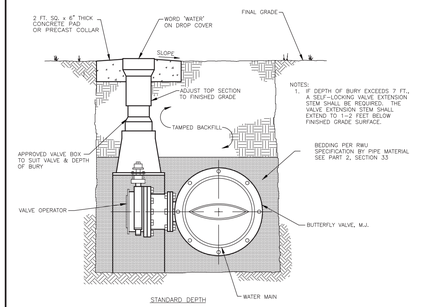


NOTES:
1. A SELF-LOCKING VALVE EXTENSION STEM MAY BE REQUIRED IF NOTED ON PLANS. THE VALVE EXTENSION STEM SHALL EXTEND TO 12"-24" BELOW FINISHED GRADE SURFACE.
2. AT BURY DEPTHS GREATER THAN 60 INCHES (6'-8"), THE USE OF 8" PVC SDR-26 SEWER PIPE AS AN EXTENSION IS ALLOWED BETWEEN THE BASE AND THE BOTTOM PIECE OF A TWO-PIECE VALVE BOX ASSEMBLY.

GATE VALVE DETAIL
N.T.S.

WD-1 / 1 — REV. 12/2021

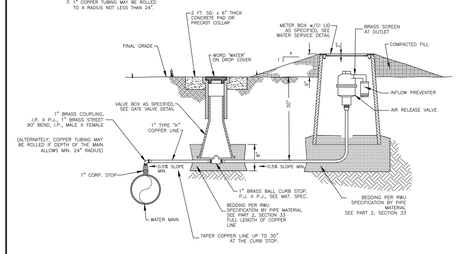


NOTES:
1. IF DEPTH OF BURY EXCEEDS 7 FT., SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 1-2 FEET BELOW FINISHED GRADE SURFACE.

BUTTERFLY VALVE DETAIL 12-INCH WATER MAINS AND LARGER
N.T.S.

WD-1 / 2 — REV. 12/2021

NOTES:
1. COPPER LINE SHALL BE CONTINUOUS FROM WELL GRADE FROM WATER MAIN TO AIR & VAC. RELEASE VALVE.
2. AIR & VAC. RELEASE VALVE ASSEMBLY SHALL BE INSTALLED IN PARALLEL TO WATER MAIN (COMMON TRENCH) IF NOTED ON PLANS AND NOT SUBJECT TO VEHICLE TRAFFIC.
3. 1" COPPER TUBING MAY BE ROLLED TO A RADIUS NOT LESS THAN 24".

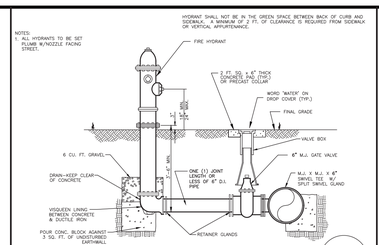


1" AIR & VACUUM RELEASE VALVE ASSEMBLY
N.T.S.

WD-1 / 3 — REV. 12/2021

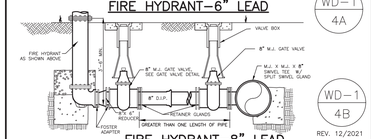
NOTES:
1. ALL HYDRANTS TO BE SET PLUMB W/NOZZLE FACING STREET.

HYDRANT SHALL NOT BE IN THE GREEN SPACE BETWEEN BACK OF CURB AND SIDEWALK. A MINIMUM OF 2 FT. OF CLEARANCE IS REQUIRED FROM SIDEWALK OR VERTICAL APPURTENANCE.



FIRE HYDRANT-6" LEAD

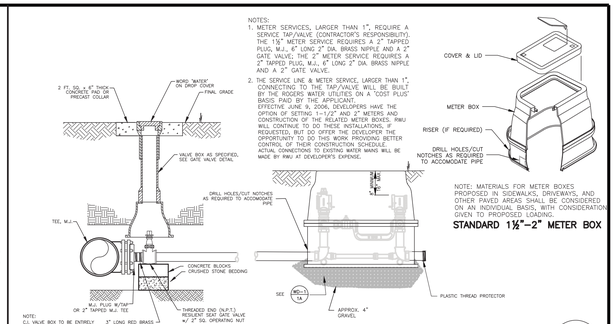
WD-1 / 4A



FIRE HYDRANT-8" LEAD

WD-1 / 4B — REV. 12/2021

NOTES:
1. METER SERVICES, LARGER THAN 1", REQUIRE A SERVICE TAP/VALVE (CONTRACTOR'S RESPONSIBILITY). THE 1½" METER SERVICE REQUIRES A 2" TAPPED PLUG, M.J., 6" LONG 2" DIA. BRASS NIPPLE AND A 2" GATE VALVE; THE 2" METER SERVICE REQUIRES A 2" TAPPED PLUG, M.J., 6" LONG 2" DIA. BRASS NIPPLE AND A 2" GATE VALVE.
2. THE SERVICE LINE & METER SERVICE, LARGER THAN 1", CONNECTING TO THE TAP/VALVE WILL BE BUILT BY THE ROGERS WATER UTILITIES ON A "COST PLUS" BASIS PAID BY THE APPLICANT. ROGERS WATER UTILITIES DEVELOPERS HAVE THE OPTION OF SETTING 1-1/2" AND 2" METERS AND CONSTRUCTION OF THE RELATED METER BOXES. RWU WILL CONTINUE TO DO THESE INSTALLATIONS, IF REQUESTED, BUT DO OFFER THE DEVELOPER THE OPPORTUNITY TO DO THIS WORK PROVIDING BETTER CONTROL OF THEIR CONSTRUCTION SCHEDULE. ACTUAL CONNECTIONS TO EXISTING WATER MAINS WILL BE MADE BY RWU AT DEVELOPER'S EXPENSE.



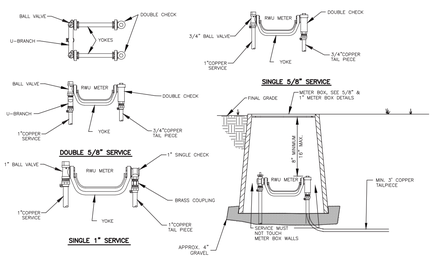
NOTE: MATERIALS FOR METER BOXES PROPOSED IN SIDEWALKS, DRIVEWAYS, AND OTHER PAVED AREAS SHALL BE CONSIDERED ON AN INDIVIDUAL BASIS, WITH CONSIDERATION GIVEN TO PROPOSED LOADING.

STANDARD 1½"-2" METER BOX

NOTE:
C.I. VALVE BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/BRICKS TO SUIT. VALVE BOX MUST MUST NOT BEAR ON VALVE/PIPE.

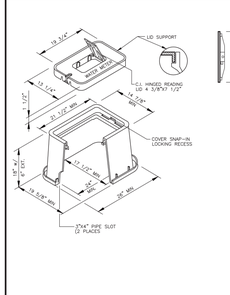
STANDARD 1½"-2" WATER SERVICE TAP DETAILS FOR NEW CONSTRUCTION
(CONNECTIONS TO EXISTING MAINS WILL BE MADE BY R.W.U.)
N.T.S.

WD-1 / 5 — REV. 12/2021

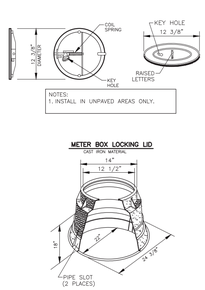


STANDARD 5/8" & 1" WATER SERVICE DETAILS
N.T.S.

WD-1 / 6 — REV. 12/2021



TYPICAL 1" METER BOX DETAIL
(SINGLE ONLY)

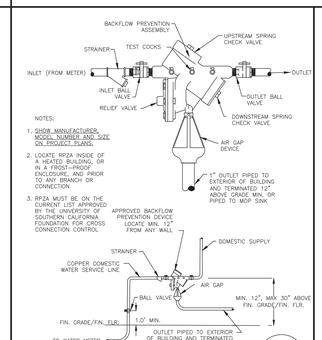


NOTES:
1. INSTALL IN UNPAVED AREAS ONLY.

TYPICAL 5/8" METER BOX DETAIL
(SINGLE & DOUBLE)

5/8" & 1" METER BOX DETAILS
N.T.S.

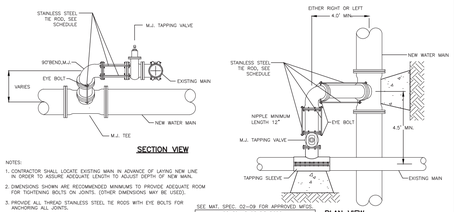
WD-1 / 7 — REV. 12/2021



NOTES:
1. SHOW MANUFACTURER, MODEL NUMBER AND SIZE ON PROJECT PLANS.
2. LOCATE RPZA INSIDE OF A HEATED BUILDING, OR IN A FROST-PROOF ENCLOSURE, AND PRIOR TO ANY BRANCH OR CONNECTION.
3. RPZA MUST BE ON THE CURRENT LIST APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL

REDUCED PRESSURE ZONE ASSEMBLY (RPZA)
N.T.S.

WD-1 / 8 — REV. DEC. 2006



SEE MAT. SPEC. 02-09 FOR APPROVED MFGS.

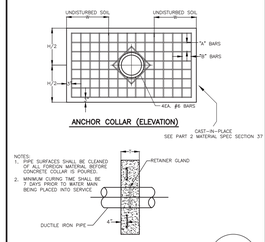
SCHEDULE OF TIE RODS	
SIZE	NUMBER OF RODS PER FITTING	DIAMETER OF S.S. RODS
4"-8"	2	3/4"
12"	4	3/4"

NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING MAIN IN ADVANCE OF LAYING NEW LINE IN ORDER TO ASSURE ADEQUATE LENGTH TO ADJUST DEPTH OF NEW MAIN.
2. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS TO PROVIDE ADEQUATE ROOM FOR TIGHTENING BOLTS ON JOINTS. (OTHER DIMENSIONS MAY BE USED).
3. PROVIDE ALL THREAD STAINLESS STEEL TIE RODS WITH EYE BOLTS FOR ANCHORING ALL JOINTS.
4. ROTATE FITTINGS AS REQUIRED TO MATCH.
5. THRUST BLOCKING IS REQUIRED FOR LOWER MJ TEE. REFER TO DETAIL WD-1/20 THIS SHEET.

SWING CONNECTION - NEW MAIN TO EXISTING MAIN
N.T.S.

WD-1 / 9 — REV. 12/2021

ANCHOR COLLAR SCHEDULE						
PIPE SIZE	DIMENSIONS				REINFORCING BARS	
	W	H	T	M	"X" BARS	"Y" BARS
6"	1.5'	2.0'	1.0'	M.J. RETAINER GLAND	#16@6"	#16@6"
8"	1.5'	2.0'	1.0'	M.J. RETAINER GLAND	#16@6"	#16@6"
12"	2.0'	4.0'	1.5'	M.J. RETAINER GLAND	#16@6"	#16@6"
18"	3.0'	5.0'	2.0'	M.J. RETAINER GLAND	#16@6"	#16@6"
24"	3.0'	5.5'	2.0'	M.J. RETAINER GLAND	#16@6"	#16@12"

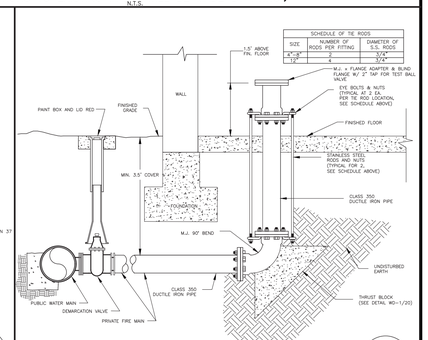


ANCHOR COLLAR (ELEVATION)

NOTES:
1. PIPE SURFACES SHALL BE CLEANED OF ALL FOREIGN MATERIAL BEFORE CONCRETE COLLAR IS POURED.
2. MINIMUM CURING TIME SHALL BE 7 DAYS PRIOR TO WATER MAIN BEING PLACED INTO SERVICE

ANCHOR COLLAR BLOCK
N.T.S.

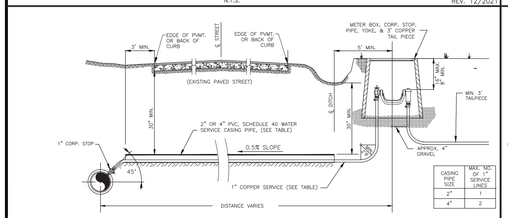
WD-1 / 10 — REV. 12/2021



SCHEDULE OF TIE RODS		
SIZE	NUMBER OF RODS PER FITTING	DIAMETER OF S.S. RODS
4"-8"	2	3/4"
12"	4	3/4"

IN-BUILDING D.I. FIRE SYSTEM RISER LEAD-IN DETAIL
N.T.S.

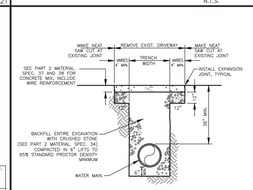
WD-1 / 11A — REV. 12/2021



CASING PIPE SIZE	MAX. NO. OF 1" SERVICE LINES
2"	1
4"	2

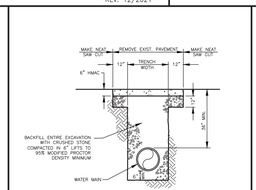
TYPICAL WATER SERVICE LINE WITH P.V.C. CASING PIPE FOR FAR SIDE SERVICE ON EXISTING STREET
N.T.S.

WD-1 / 12 — REV. 04/2021



PERMANENT CONCRETE DRIVEWAY CROSSING REPAIR
N.T.S.

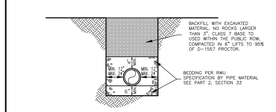
WD-1 / 15 — REV. 09/2022



PERMANENT ASPHALT DRIVEWAY/STREET CROSSING REPAIR
N.T.S.

WD-1 / 16 — REV. 09/2022

RESERVED



TRENCH/PIPE BEDDING DETAIL FOR WATER MAINS
N.T.S.

WD-1 / 18 — REV. SEP. 2022

RESERVED

WD-1 / 13 — WD-1 / 14 — WD-1 / 17

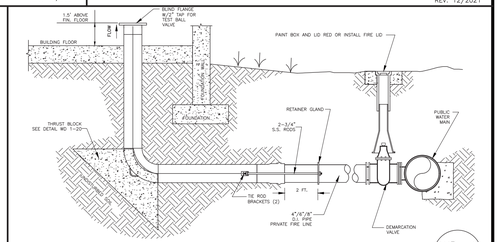
NOT USED

ADH # 115198 D1 A1 Rogers Standard Details 20220929

Craig Corder Digitally signed by Craig Corder Date: 2022.10.11 12:47:34-05'00'

ccorder 10/11/2022

REV. AUG. 2007



IN-BUILDING STAINLESS STEEL FIRE LINE RISER
N.T.S.

WD-1 / 11B — REV. 04/2021

GENERAL CONSTRUCTION NOTES:

A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary pre-cautions to prevent property damage.

B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.

C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.

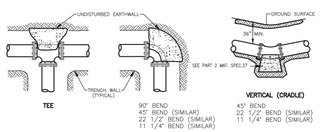
D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.

F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.

G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said con-tractor shall not operate any valve, hydrant, or water utility appurtenance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

WD-1 / 19

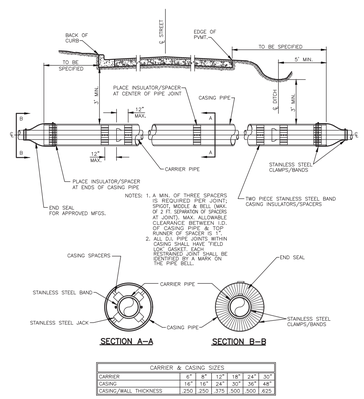


NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
4. Back all tees according to size of branch.
5. Backing future line extensions shall be such that later removal is possible.
6. All bends where fittings are used, both horizontal and vertical, shall be backed.
7. Reaction backing table is based on 150 p.s.i. and soil bearing pressure of 2,500 lb./sq. ft. Additional backing may be required in some areas as directed by engineer.

REACTION BACKING TABLE				
REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING				
SIZE	TYPE OF FITTINGS			
	TEE OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
4"	2	2	1	1	
6"	3	4	2	1	
8"	5	6	3	2	
12"	10	10	5	3	2
18"	26	26	14	7	4
24"	38	38	20	10	5
30"	59	59	32	16	10

THRUST BLOCKING DETAIL
N.T.S.

WD-1 / 20 — REV. 12/2021

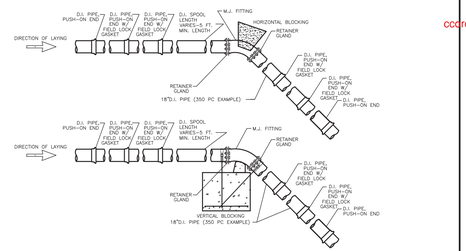


NOTES:
1. A MIN. OF THREE SPACERS (5 REQUIRED PER JOINT, SPIDT, MODLE & BELL (MAX. OF 2 FT. SEPARATION OF SPACERS ON PIPE. ALL SPACERS HAVE CLEARANCE BETWEEN 1/2 OF CASING PIPE & TOP RUNNER OF SPACER IS 1".
2. ALL D.I. PIPE JOINTS WITHIN CASING PIPE USE "FIELD LOK" GASKET. EACH RESTRAINED JOINT SHALL BE SEALED BY A MARK ON THE PIPE BELL.

CARRIER & CASING SIZES						
CARRIER	4"	6"	12"	18"	24"	30"
CASING	16"	16"	24"	30"	36"	48"
CASING/WALL THICKNESS	.250	.250	.375	.500	.500	.625

JACK & BORE UNDER ROADWAY DETAIL
N.T.S.

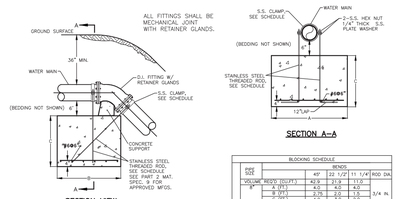
WD-1 / 21 — REV. 12/2021



NOTES:
1. Main size 18" requires two restrained joints (w/field lock gaskets) away from fitting, (36 ft.); main size 24" requires three restrained joints away from fitting, (54 ft.); and main size 30" requires four restrained joints away from fitting (72 ft.), or as specified by Engineer.

FIELD LOCK GASKETS DETAIL FOR HORIZONTAL AND VERTICAL BENDS (TO BE USED IN CONJUNCTION WITH THRUST BLOCKING) FOR 18-INCH AND LARGER WATER MAINS
N.T.S.

WD-1 / 22 — REV. 12/2021



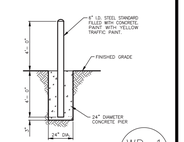
NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
4. Gulf State Hanger's 2-Bolt S.S. pipe clamp, medium-Fig. 80 or approved equal.

BLOCKING SCHEDULE					
PIPE SIZE		BENDS			
		45°	22 1/2°	11 1/4°	ROD DIA.
6"	VOLUME REQ'D (CU.FT.)	40.9	21.9	11.0	3/4 IN.
	6 (FT)	6.5	3.5	1.8	
	8 (FT)	7.75	2.0	1.5	
	CLAMP (# EA)	1/4	1/4	1/4	
12"	VOLUME REQ'D (CU.FT.)	84.1	48.0	24.1	7/8 IN.
	6 (FT)	6.5	3.5	1.8	
	8 (FT)	4.25	2.4	1.6	
	12 (FT)	4.0	4.0	3.0	
	CLAMP (# EA)	5	2	2	
18"	VOLUME REQ'D (CU.FT.)	210	107	54	1 IN.
	6 (FT)	6.0	4.0	2.0	
	8 (FT)	5.5	3.5	2.25	
	12 (FT)	4.5	3.0	2.0	
	CLAMP (# EA)	5.5	2.5	2.5	
24"	VOLUME REQ'D (CU.FT.)	374	191	96	1 1/8 IN.
	8 (FT)	6.5	4.0	3.0	
	12 (FT)	7.5	4.5	3.2	
	18 (FT)	5.0	3.5	2.5	
	CLAMP (# EA)	5.5	3.5	3.5	

VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BENDS UNDER AN INTERNAL PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.

VERTICAL TIE-DOWN BLOCKING DETAIL
N.T.S.

WD-1 / 23 — REV. DEC. 2006



GUARDPOST DETAIL
N.T.S.

WD-1 / 24 — REV. 12/2021

WATER DETAILS

RWU ROGERS WATER UTILITIES
P.O. DRAWER 338
601 SOUTH 2ND ROGERS, ARKANSAS
72757-0338

REVISION DATE	SHEET NO.
9/20/2022	WD-1

MF4-2CUAPWS