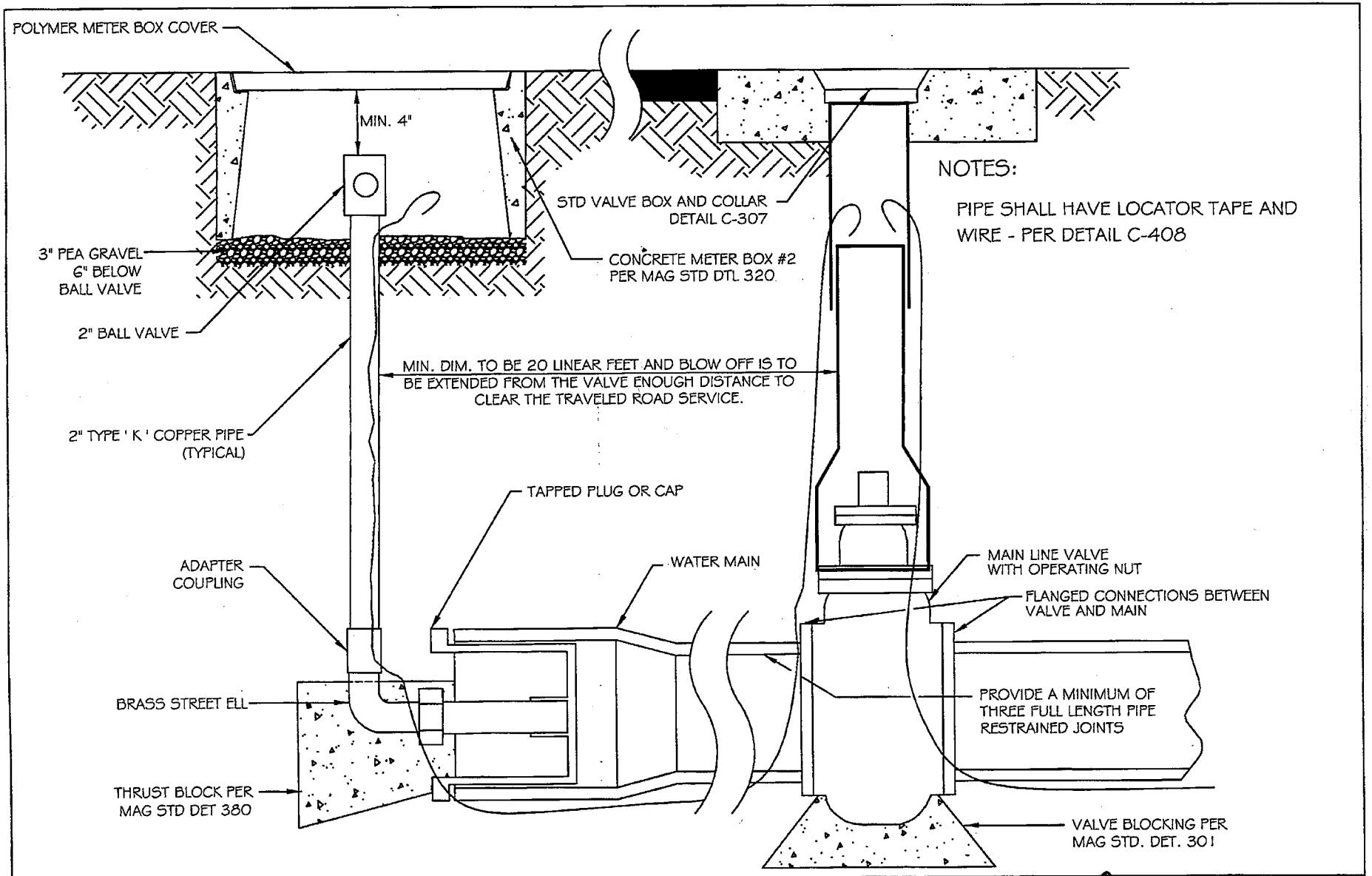
WATER
C-300 TO C-322



NOTES:

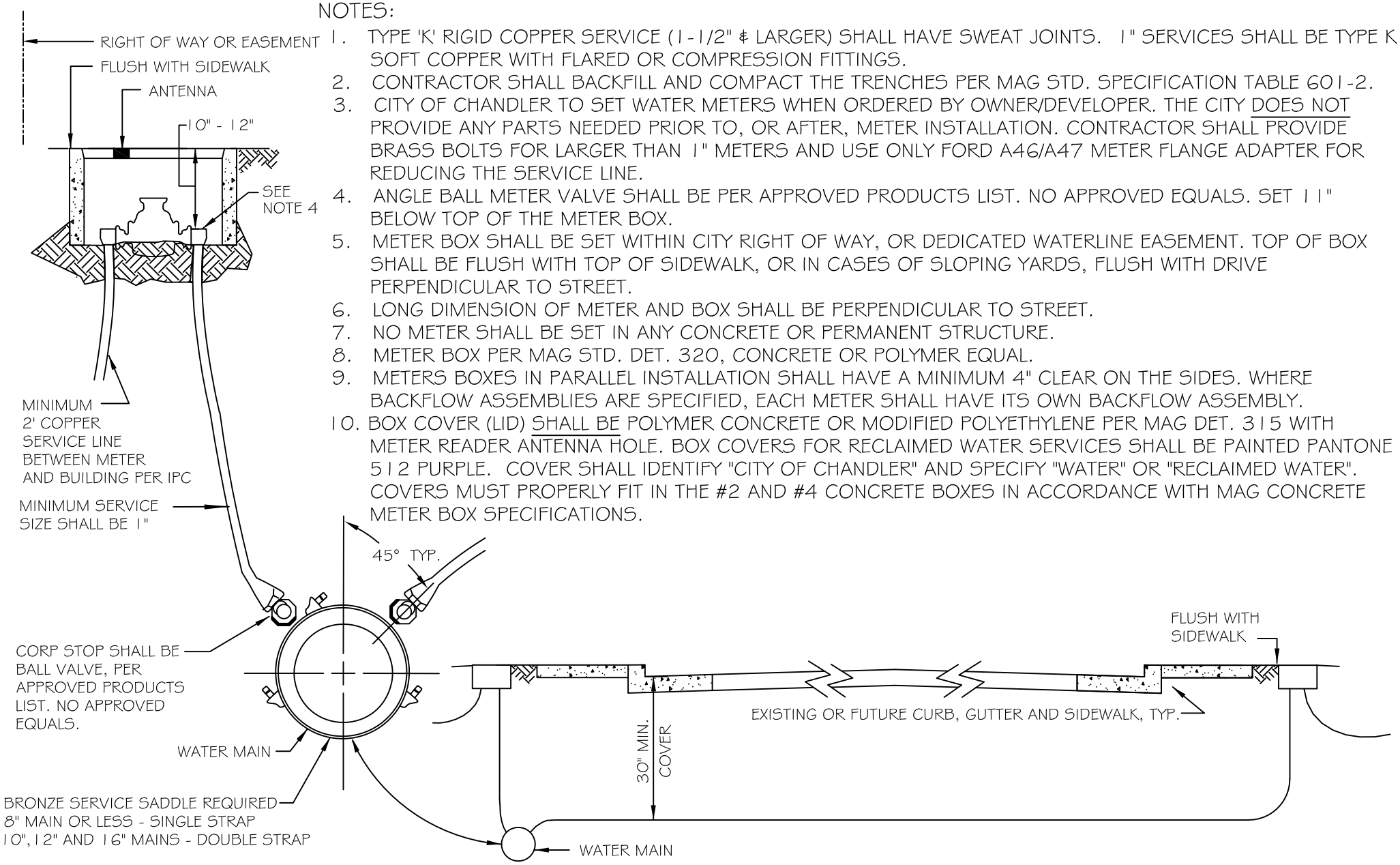
PIPE SHALL HAVE LOCATOR TAPE AND WIRE - PER DETAIL C-408

DETAIL NO. **C-300** NTS	CITY OF CHANDLER STANDARD DETAIL	**FLUSHING PIPE ASSEMBLY WITH BALL VALVE**	APPROVED: CITY ENGINEER DATE: 01/08/09	DETAIL NO. **C-300** NTS

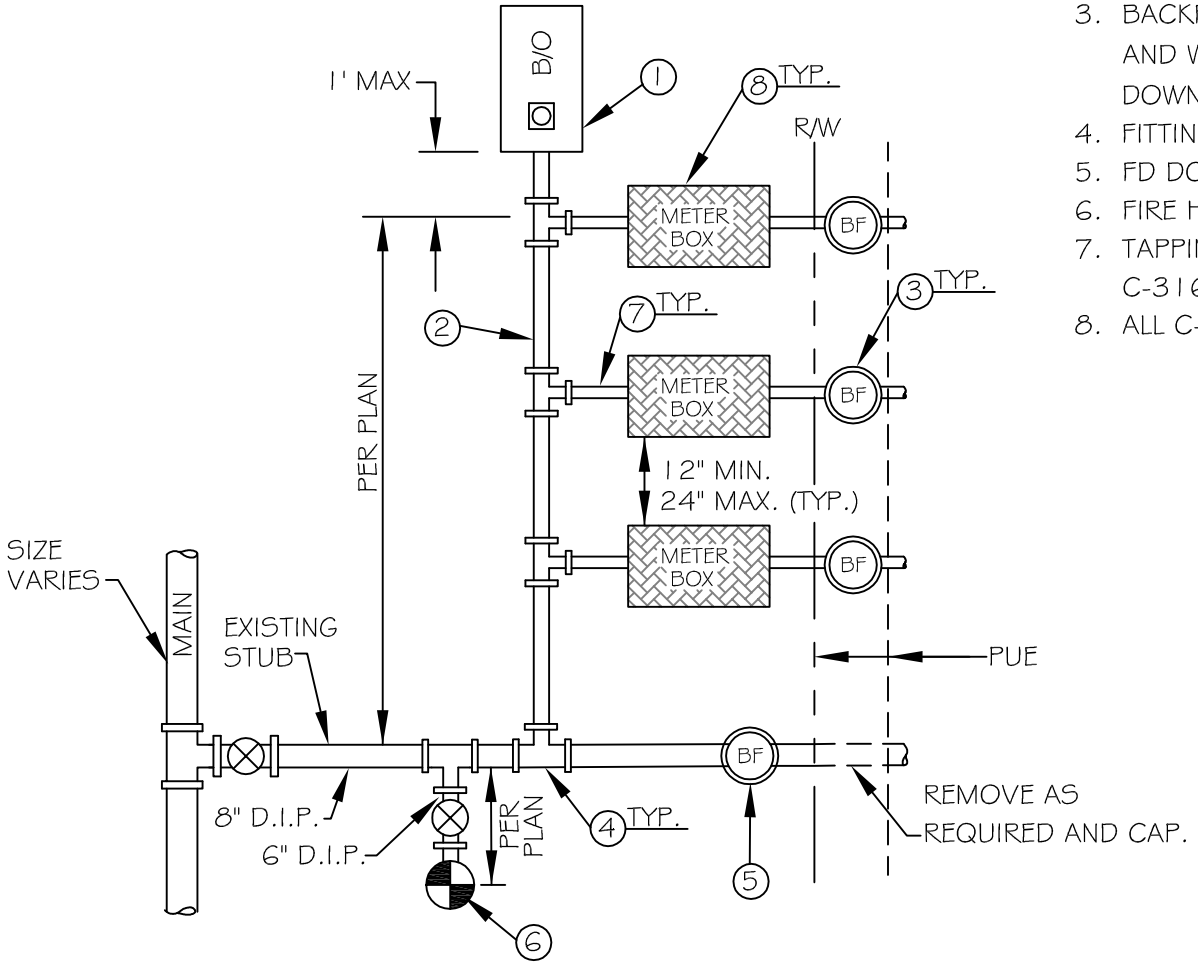
CAUTION: BEFORE SERVICES ARE INSTALLED, DRIVEWAY LOCATIONS SHOULD BE VERIFIED AND THE SERVICES CONSTRUCTED TO AVOID CONFLICTS.

NOTES:

1. TYPE 'K' RIGID COPPER SERVICE (1-1/2" & LARGER) SHALL HAVE SWEAT JOINTS. 1" SERVICES SHALL BE TYPE K SOFT COPPER WITH FLARED OR COMPRESSION FITTINGS.
2. CONTRACTOR SHALL BACKFILL AND COMPACT THE TRENCHES PER MAG STD. SPECIFICATION TABLE 601-2.
3. CITY OF CHANDLER TO SET WATER METERS WHEN ORDERED BY OWNER/DEVELOPER. THE CITY DOES NOT PROVIDE ANY PARTS NEEDED PRIOR TO, OR AFTER, METER INSTALLATION. CONTRACTOR SHALL PROVIDE BRASS BOLTS FOR LARGER THAN 1" METERS AND USE ONLY FORD A46/A47 METER FLANGE ADAPTER FOR REDUCING THE SERVICE LINE.
4. ANGLE BALL METER VALVE SHALL BE PER APPROVED PRODUCTS LIST. NO APPROVED EQUALS. SET 11" BELOW TOP OF THE METER BOX.
5. METER BOX SHALL BE SET WITHIN CITY RIGHT OF WAY, OR DEDICATED WATERLINE EASEMENT. TOP OF BOX SHALL BE FLUSH WITH TOP OF SIDEWALK, OR IN CASES OF SLOPING YARDS, FLUSH WITH DRIVE PERPENDICULAR TO STREET.
6. LONG DIMENSION OF METER AND BOX SHALL BE PERPENDICULAR TO STREET.
7. NO METER SHALL BE SET IN ANY CONCRETE OR PERMANENT STRUCTURE.
8. METER BOX PER MAG STD. DET. 320, CONCRETE OR POLYMER EQUAL.
9. METERS BOXES IN PARALLEL INSTALLATION SHALL HAVE A MINIMUM 4" CLEAR ON THE SIDES. WHERE BACKFLOW ASSEMBLIES ARE SPECIFIED, EACH METER SHALL HAVE ITS OWN BACKFLOW ASSEMBLY.
10. BOX COVER (LID) SHALL BE POLYMER CONCRETE OR MODIFIED POLYETHYLENE PER MAG DET. 315 WITH METER READER ANTENNA HOLE. BOX COVERS FOR RECLAIMED WATER SERVICES SHALL BE PAINTED PANTONE 512 PURPLE. COVER SHALL IDENTIFY "CITY OF CHANDLER" AND SPECIFY "WATER" OR "RECLAIMED WATER". COVERS MUST PROPERLY FIT IN THE #2 AND #4 CONCRETE BOXES IN ACCORDANCE WITH MAG CONCRETE METER BOX SPECIFICATIONS.



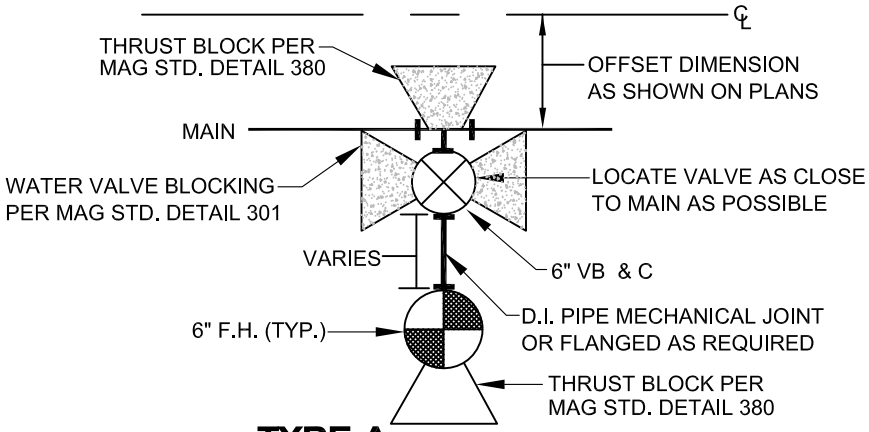
DETAIL NO. C-301 PAGE 1 OF 2	CITY OF CHANDLER STANDARD DETAIL	**WATER SERVICE INSTALLATION**	APPROVED: CITY ENGINEER DATE: 01-28-2021	DETAIL NO. C-301 PAGE 1 OF 2



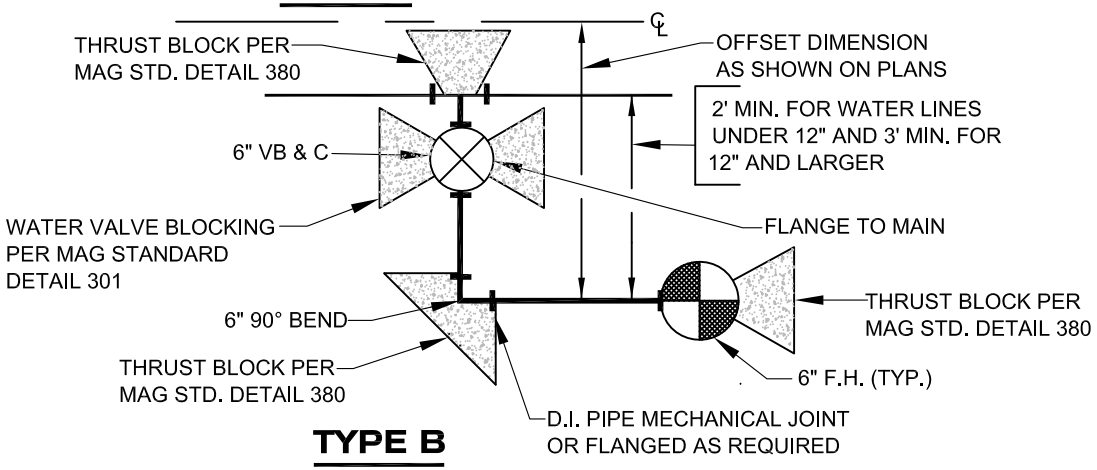
NOTES

1. FLUSHING PIPE ASSEMBLY WITH BALL PER C-300.
2. MIN. 6" D.I.P.
3. BACKFLOW PREVENTION PER PLAN, INSTALLED INLINE AND WITHIN 6 INCHES OF METER BOX, IMMEDIATELY DOWNSTREAM OF THE LINESETTER.
4. FITTINGS PER PLAN. FLANGED FITTINGS ONLY.
5. FD DOUBLE CHECK DETECTOR AS NEEDED PER PLAN.
6. FIRE HYDRANT AS NEEDED PER PLAN.
7. TAPPING: USE C-301 FOR 2" AND SMALLER OR C-316 FOR LARGER THAN 2".
8. ALL C-301A NOTES APPLY.

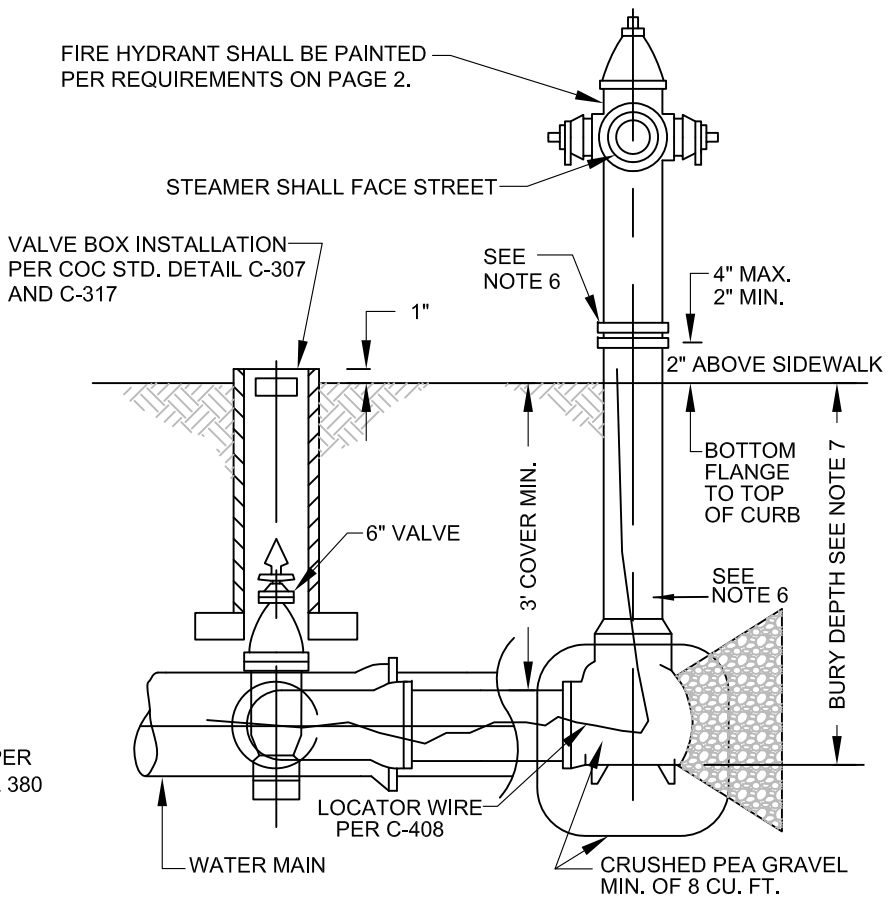
DETAIL NO. C-301 PAGE 2 OF 2	CITY OF CHANDLER STANDARD DETAIL	**MULTI-METER WATER SERVICE INSTALLATION**	APPROVED: CITY ENGINEER DATE: 3/14/2013	DETAIL NO. C-301 PAGE 2 OF 2



TYPE A



TYPE B



TYPICAL INSTALLATION

NOTES:

1. FIRE HYDRANT VALVES INCLUDING ALL FITTINGS & 45° BENDS SHALL BE RESTRAINED TO MAIN LINE TEE BY FLANGES.
2. FIRE HYDRANT SHALL BE PER CITY LIST OF APPROVED PRODUCTS.
3. CONNECTIONS SHALL BE 2-1/2" & 4-1/2" N.S. THREADS.
4. FIRE HYDRANT SHALL BE LOCATED PER DETAIL C-305 A MIN. OF 6' BEHIND FACE OF CURB, AND 12 INCHES BEHIND SIDEWALK, RIGHT OF WAY PERMITTING, AND INSTALLED SIX FEET BEYOND CURB RETURNS FOR HYDRANTS LOCATED AT INTERSECTIONS.
5. CAP CHAINS SHALL BE REMOVED AND THREADS GREASED WITH MANUFACTURER APPROVED HYDRANT GREASE.
6. EXTENSIONS ARE NOT ALLOWED.
7. STANDARD BURY DEPTHS ARE 36", 48", AND 54". ALL FITTINGS BETWEEN FH VALVE AND 6" HYDRANT RUNOUT SHALL BE RESTRAINED BY FLANGES.

DETAIL NO. C-303 PAGE 1 OF 3	CITY OF CHANDLER STANDARD DETAIL	**FIRE HYDRANT INSTALLATION**	APPROVED: CITY ENGINEER DATE: 05-10-2018	DETAIL NO. C-303 PAGE 1 OF 3

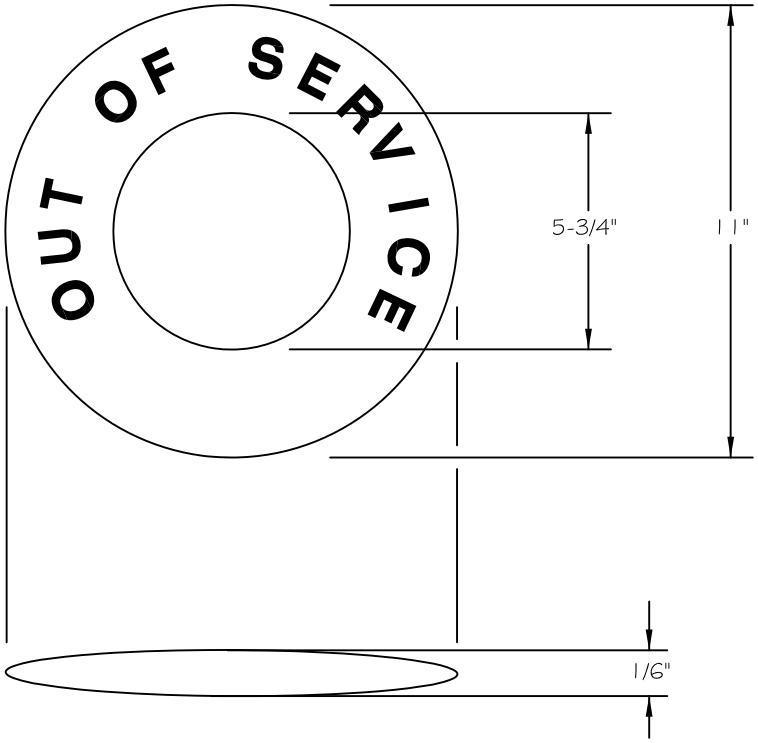
COLOR CODE

THE CITY OF CHANDLER WATER DIVISION AND FIRE DEPARTMENT UTILIZE THE FOLLOWING COLOR CODE IN DISTINGUISHING THE VARIOUS TYPES OF FIRE HYDRANTS:

TYPE 1. CAT YELLOW: THE BARREL AND BONNET OF ALL FIRE HYDRANTS INSTALLED ON PUBLIC WATER MAINS IN RIGHTS-OF-WAY AND IN PUBLIC UTILITY EASEMENTS (PUE'S) SHALL BE PAINTED CAT YELLOW.

TYPE 2. GLOSS BLACK/CAT YELLOW: THE BONNET OR 3" DOWN OF ALL FIRE HYDRANTS INSTALLED ON PRIVATELY OWNED AND MAINTAINED WATER MAINS SHALL BE PAINTED GLOSS BLACK. THE BARREL SHALL BE PAINTED CAT YELLOW.

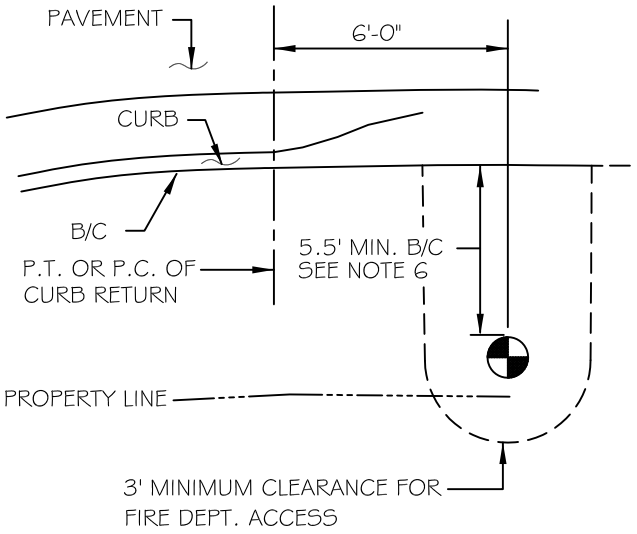
TYPE 3. BRILLIANT RED: THE BARREL AND BONNET SHALL BE PAINTED BRILLIANT RED AFTER THE FIRE DEPARTMENT CONNECTIONS (FDC'S). SPECIAL APPROVAL IS REQUIRED FOR ALL RED HYDRANTS BY THE FIRE MARSHAL. FIRE DEPARTMENT SIAMESE CONNECTIONS (FDC'S). ALL SUCH FIRE HYDRANTS SHALL BE ISOLATED FROM THE MUNICIPAL WATER SYSTEM BY DOUBLE DETECTOR CHECK VALVES. ALL RED HYDRANTS SHALL BE APPROVED BY THE FIRE MARSHAL.



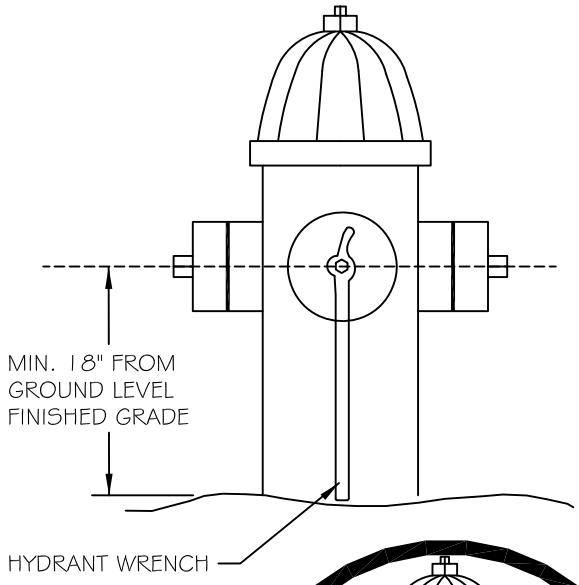
NOTE:

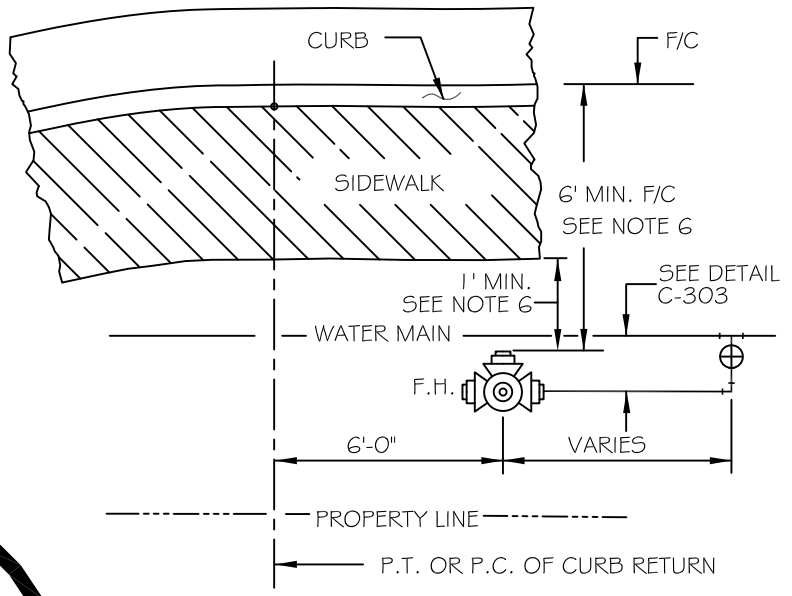
ALL FIRE HYDRANTS INSTALLED ON PRIVATE AND PUBLIC WATER LINES SHALL BE PROVIDED WITH "OUT OF SERVICE" SIGNS AT TIME OF INSTALLATION. UPON COMPLETION OF REQUIRED INSPECTIONS, TESTS, ACCEPTANCE, AND APPROVAL OF THE WATER SYSTEM BY A C.O.C. INSPECTOR AND THE SYSTEM IS VERIFIED TO BE IN SERVICE, THE "OUT OF SERVICE" SIGNS SHALL BE REMOVED. A HYDRANT REMOVED FROM SERVICE SHALL BE PROVIDED AN "OUT OF SERVICE" SIGN WITHIN THE INITIAL 2 HOURS OF THE SERVICE INTERRUPTION. SIGNS SHALL BE IN ACCORDANCE WITH THIS DETAIL. SIGNS SHALL BE PERMANENTLY MARKED AND CONSTRUCTED OF WEATHERPROOF METAL OR RIGID PLASTIC MATERIAL. THE COLOR OF LETTERING ON SIGNS SHALL BE IN HIGH CONTRAST WITH THEIR BACKGROUND. SIGNS SHALL HAVE THE WORDS "OUT OF SERVICE" ON THE SIGN IN BLOCK CAPITAL LETTERS NOT LESS THAN 1-1/2" IN HEIGHT WITH A STROKE OF NOT LESS THAN 1/4".

DETAIL NO. C-303 PAGE 3 OF 3	CITY OF CHANDLER STANDARD DETAIL	**FIRE HYDRANT INSTALLATION 'OUT OF SERVICE' SIGNS**	APPROVED: CITY ENGINEER DATE: 05-10-2018	DETAIL NO. C-303 PAGE 3 OF 3

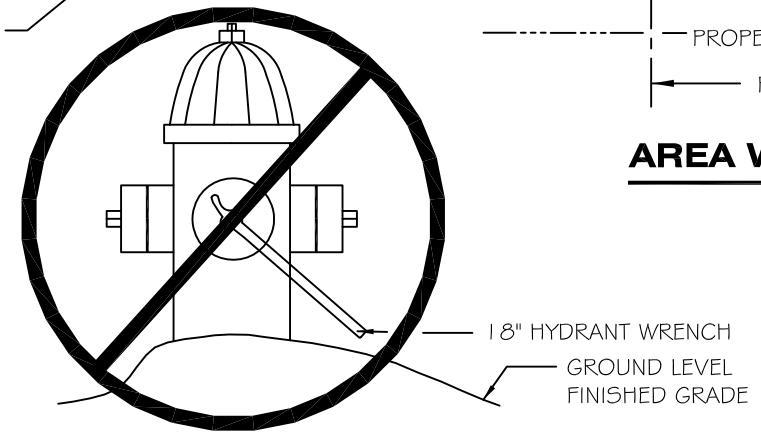


PARKWAY AREA, NO SIDEWALK





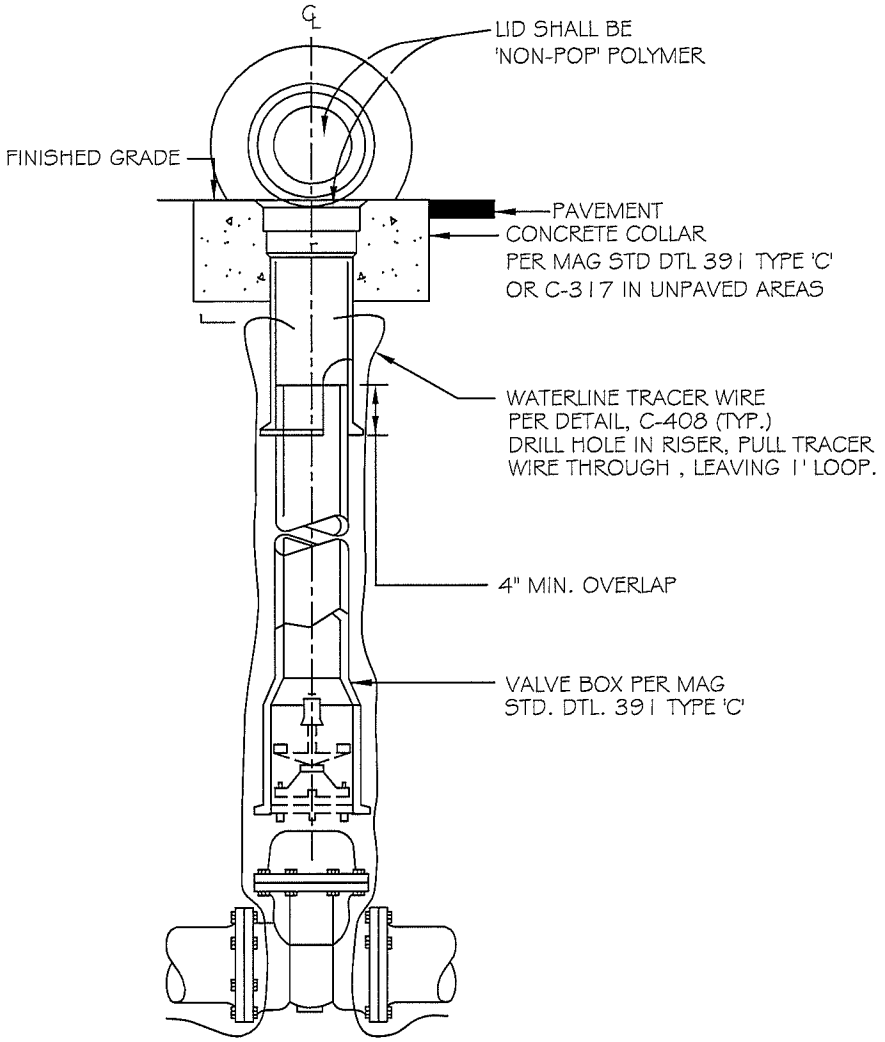
AREA WITH SIDEWALK



NOTES:

1. INSTALLATION SHALL BE PER STANDARD DETAIL C-303.
2. DIMENSIONS SHOWN ON APPROVED CONSTRUCTION DRAWINGS MAY SUPERSEDE LOCATIONS SHOWN HERE.
3. OBSTRUCTIONS SUCH AS UTILITY POLES, STREET SIGNS, IRRIGATION BOXES, FENCES, ETC., MUST NOT BE PLACED BETWEEN CURB AND HYDRANT.
4. ON LOCATIONS IN MIDBLOCK, THE FIRE HYDRANT WILL BE ALIGNED WITH A PROPERTY LINE AND 6' MINIMUM FROM DRIVEWAYS.
5. ALL FIRE HYDRANTS INSTALLED PER STANDARD DETAIL C-303 SHALL BE LOCATED IN ACCORDANCE WITH THIS DETAIL.
6. MINIMUM DIMENSION MUST BE SIDEWALK WIDTH PLUS ONE (1) FOOT OR SIX (6) FEET FROM FACE OF CURB, WHICHEVER IS GREATER.
7. IN INDUSTRIAL/COMMERCIAL ZONES A MINIMUM OF 6' FROM DRIVEWAYS SHALL BE MAINTAINED WITH VALVE INSTALLED AWAY FROM DRIVEWAY.
8. 3 FOOT UNOBSTRUCTED CLEARANCE AROUND FIRE HYDRANT AND HYDRANT VALVE. NO TREES, BUSHES, FENCES, WALLS, OR RIVER ROCK. NO CACTUS WITHIN 10 FEET OF A HYDRANT OR HYDRANT VALVE.

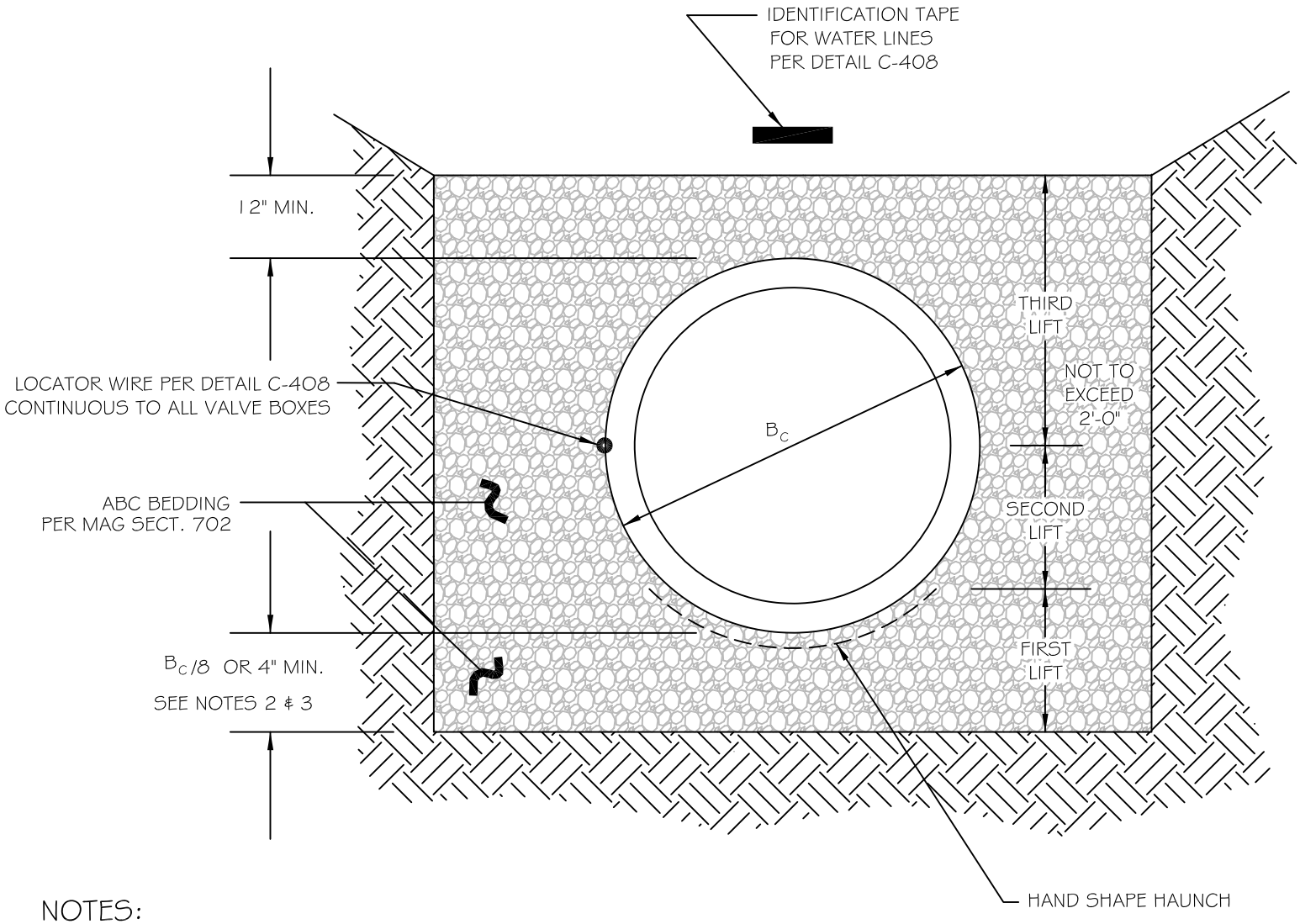
DETAIL NO. C-305 NTS	CITY OF CHANDLER STANDARD DETAIL	**LOCATIONS FOR NEW FIRE HYDRANT**	APPROVED: _____ CITY ENGINEER DATE: 05-10-2018	DETAIL NO. C-305 NTS



NOTES:

1. IN UNPAVED AREAS, CONCRETE COLLAR SHALL CONFORM TO DETAIL C-317.
2. BACKFILL SHALL BE 1/2 SACK CLSM. PER MAG. SPECIFICATION 718.
3. VALVE BOXES SHALL NOT BE INSTALLED WITHIN CONCRETE GUTTER, SIDEWALK, RAMPS OR VALLEY GUTTER.

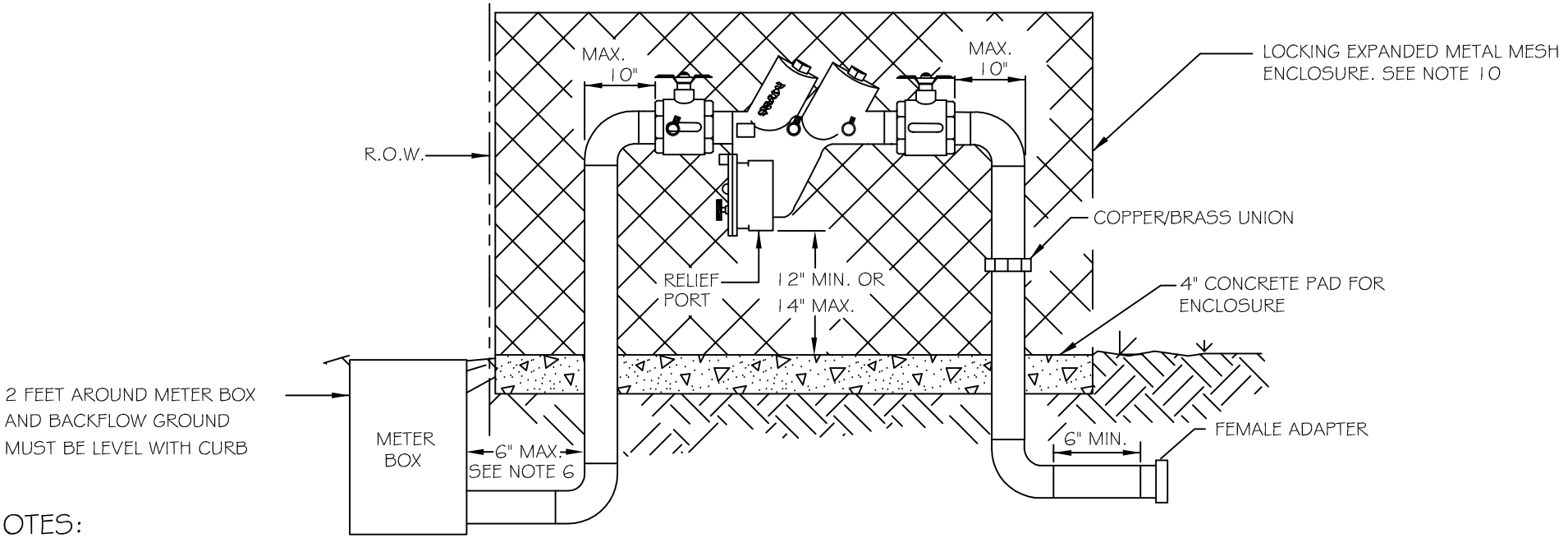
DETAIL NO. C-307 NTS	CITY OF CHANDLER STANDARD DETAIL	**VALVE BOX INSTALLATION (POTABLE WATER)**	APPROVED: CITY ENGINEER DATE: 07-09-2015	DETAIL NO. C-307 NTS



NOTES:

1. TRENCH EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH MAG SECT. 601.
2. MINIMUM 4" FOR PIPES 12" OR SMALLER.
3. MINIMUM 6" FOR PIPES LARGER THAN 12".
4. WATER PIPE MATERIAL SHALL BE IN ACCORDANCE WITH CITY LIST OF APPROVED PRODUCTS.

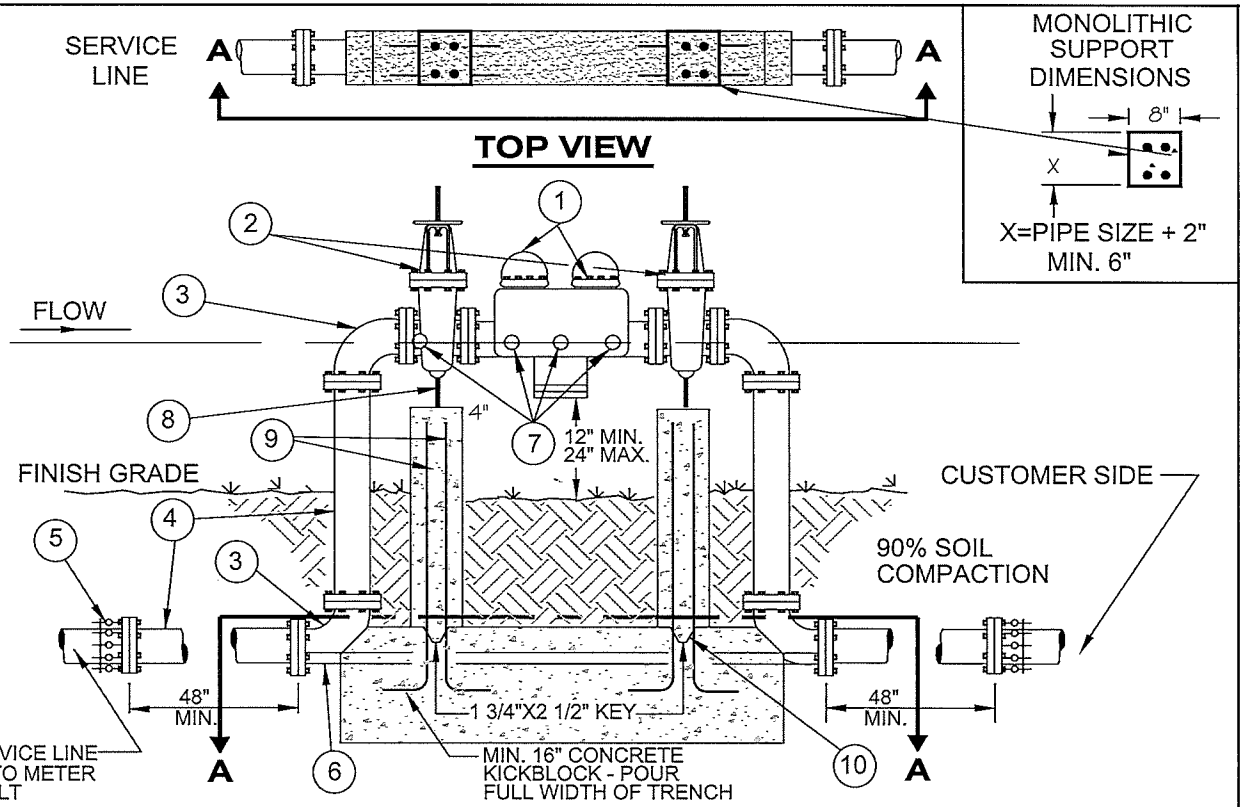
DETAIL NO. C-308 NTS	CITY OF CHANDLER STANDARD DETAIL	**WATER PIPE BEDDING DETAIL**	APPROVED: CITY ENGINEER DATE: 01-28-2021	DETAIL NO. C-308 NTS



NOTES:

1. ASSEMBLY SHALL BE APPROVED BY UNIVERSITY OF SOUTHERN CALIFORNIA (USC) FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH. LIST OF APPROVED ASSEMBLIES ON FILE AT CIVIL ENGINEERING.
2. SHUTOFF VALVES SHALL BE RESILIENT BALL TYPE WITH REMOVABLE HANDLES.
3. ALL PIPE AND FITTINGS SHALL BE TYPE 'K' RIGID COPPER. COMPRESSION FITTINGS ARE NOT ALLOWED.
4. TEST COCKS SHALL BE FITTED WITH BRASS PLUGS INSTALLED WITH TEFLON TAPE.
5. NO TAPS SHALL BE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
6. INSTALL BACKFLOW PREVENTION ASSEMBLY INLINE AND WITHIN 6 INCHES OF THE METER BOX, IMMEDIATELY DOWNSTREAM OF THE LINESETTER.
7. THE COPPER/BRASS UNION MAY NOT BE REQUIRED IF THE ASSEMBLY INCORPORATES THE UNION.
8. INSTALL BACKFLOW PREVENTION ASSEMBLY WITH RELIEF PORT FACING TOWARD THE GROUND.
9. BACKFLOW PREVENTION INSTALLATION MUST BE LEVEL, AND INSTALLED A MINIMUM OF 12 INCHES AND A MAXIMUM OF 14 INCHES FROM RELIEF PORT TO FINAL GRADE.
10. LOCKING ENCLOSURE SHALL BE GUARD SHACK OR EQUIVALENT, PAINTED 'DESERT TAN' WITH TNEMEC EDUROSHIELD PER MFG'S INSTRUCTIONS. MINIMUM 12 MILS DFT.
11. BACKFLOW PREVENTION ASSEMBLY SHALL HAVE AT LEAST THE SAME CROSS-SECTIONAL AREA AS THE WATER METER BUT NO MORE THAN ONE SIZE LARGER THAN THE METER.

DETAIL NO. C-311 NTS	CITY OF CHANDLER STANDARD DETAIL	**REDUCED PRESSURE-PRINCIPLE BACKFLOW PREVENTION ASSEMBLY INSTALLATION - 3" AND UNDER**	APPROVED: _____ CITY ENGINEER DATE: 3/14/2013	DETAIL NO. C-311 NTS



LIST OF MATERIALS

1. APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY.
2. O.S.&Y. GATE VALVE, N.R.S. GATE VALVE, IF PREFERRED.
3. 90° ELL. (FLANGED D.I.P.)
4. PIPE SPOOL (FLANGED D.I.P.)
5. FLANGED ADAPTER (WHEN REQUIRED).
6. 3/4" ZINC COATED THREADED ROD, BOLTED TO FLANGES AS SHOWN, BOTH SIDES TYPICAL EQUAL TENSION.
7. TEST COCKS (4 REQUIRED WITH BRASS PLUGS USING ONLY TEFLON TAPE.)
8. ADJUSTABLE PIPE SUPPORT MUST BE PERMANENTLY ATTACHED TO BASE, 6" MAXIMUM HEIGHT.
9. #6 REINFORCING STEEL, DEFORMED BAR, 4" APART, EVENLY SPACED.
10. CONSTRUCTION JOINT KEY TO BE 1 3/4" X 2 1/2".

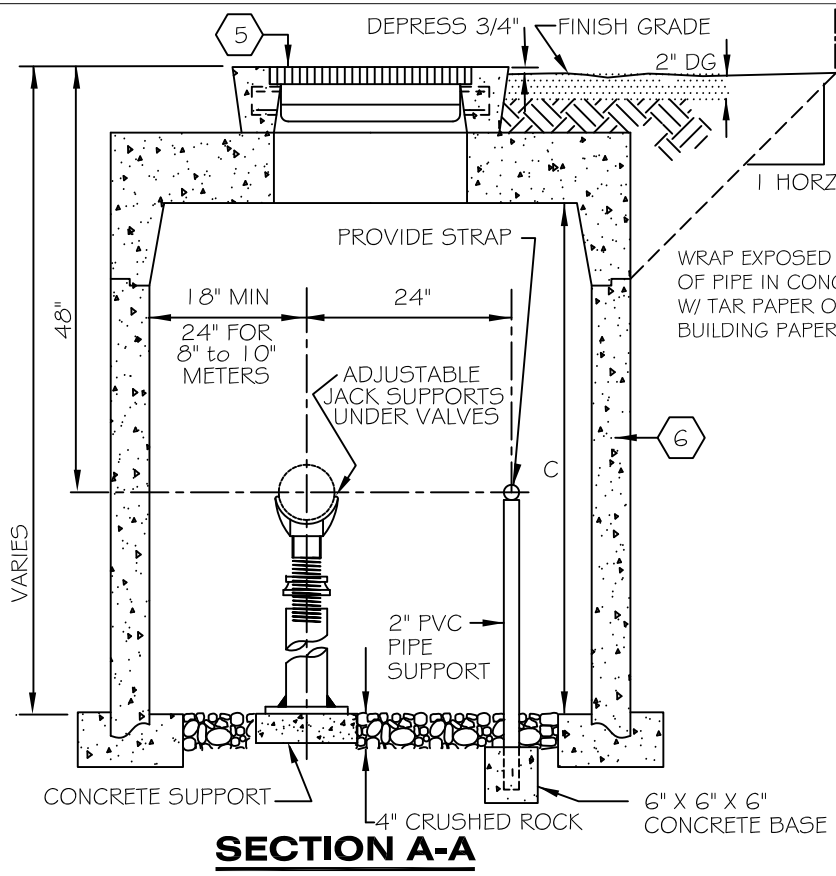
NOTES:

1. LIST OF LATEST APPROVED ASSEMBLIES ON FILE AT ENGINEERING. COPIES AVAILABLE.
2. ASSEMBLY SHALL BE AS APPROVED BY UNIVERSITY OF SOUTHERN CALIFORNIA (USC) FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.
3. ABOVE GROUND PORTION OF ASSEMBLY TO BE PAINTED LIGHT TAN OR EQUIVALENT BACKGROUND COLOR.
4. WHEN UTILIZED FOR RECLAIMED WATER, THE WORDS 'RECLAIMED WATER' SHALL BE STENCILED ON THE ASSEMBLY USING THE COLOR 'SAFETY PURPLE'.
5. BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED ON PRIVATE PROPERTY AND AS CLOSE AS PRACTICABLE TO THE POTABLE WATER METER.
6. BACKFLOW PREVENTION ASSEMBLY SHALL HAVE AT LEAST THE SAME CROSS-SECTIONAL AREA AS THE METER BUT NO MORE THAN ONE SIZE LARGER THAN THE METER.

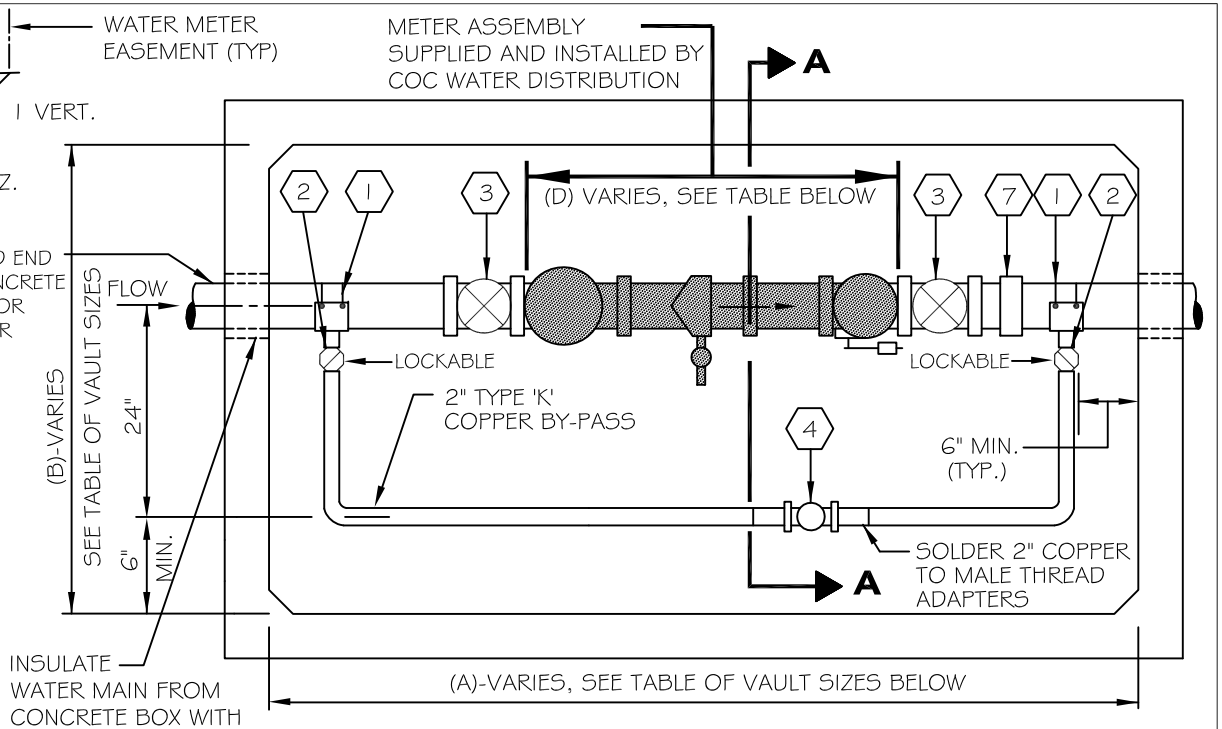
SCREENING METHOD

1. SCREEN WALLS, PLANT MATERIAL, BERMING AND/OR BUILDING ORIENTATION SHALL BE SUBMITTED TO DEVELOPMENT SERVICES FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION.

DETAIL NO.				
C-315 NTS	CITY OF CHANDLER STANDARD DETAIL	**REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY INSTALLATION - 4" AND LARGER**	APPROVED: CITY ENGINEER DATE: 1-14-16	DETAIL NO. **C-315** NTS



SECTION A-A



VAULT DIMENSION TABLE					
METER SIZE	3"	4"	6"	8"	10"
LENGTH (A)	8' - 4"	10' - 6"	12'	14'	15' - 0"
WIDTH (B)	4' - 4"	5'	5'	5' - 6 "	5' - 6"
INSIDE HEIGHT (C)	4' - 6"	5' - 0"	5' - 6"	6' - 0"	6' - 6"
METER ASSEMBLY (D) BLOCK OUT COMPOUND METER	3' - 8"	4' - 5"	6' - 8"	8' - 1"	10' - 0"
TURBINE METER	3' - 3"	3' - 11"	6' - 7"	7' - 11"	9' - 0"

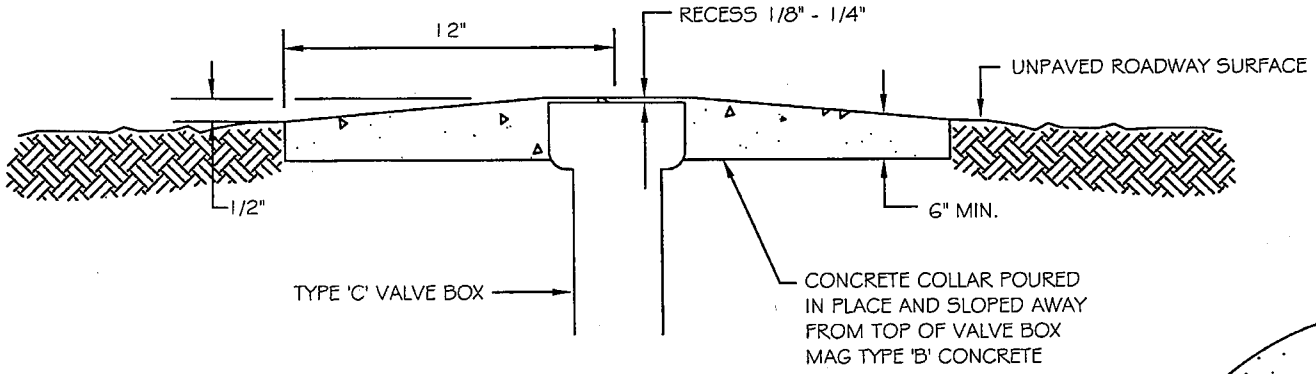
NOTES:

1. METER VAULTS MAY BE EITHER CAST-IN-PLACE OR PRE-CAST CONCRETE. SEE MAG STANDARD DETAIL 321 FOR VAULT CONSTRUCTION, 3" TO 6" METERS.
2. FOR LARGER THAN 6" METERS SPECIAL VAULT DESIGN IS REQUIRED. SUBMIT FOR APPROVAL.
3. STAINLESS BOLTS AND NUTS REQUIRED FOR ENTIRE ASSEMBLY.
4. PIPE MAIN MATERIAL SHALL BE D.I.P. THROUGHOUT VAULT AND 1' MIN. BEYOND INLET AND OUTLET.
5. PIPE MAIN SHALL BE FULLY RESTRAINED BEYOND INLET AND OUTLET OF VAULT.
6. CONTRACTOR SHALL PROVIDE FLANGED SPOOL IN METER ASSEMBLY BLOCK-OUT TO PROVE CORRECT ALIGNMENT. SPOOL MAY BE SALVAGED AFTER METER INSTALLATION.
7. VAULT LID SHALL NOT BE INSTALLED UNTIL AFTER METER IS INSTALLED BY CITY. CALL (480) 782-3700.

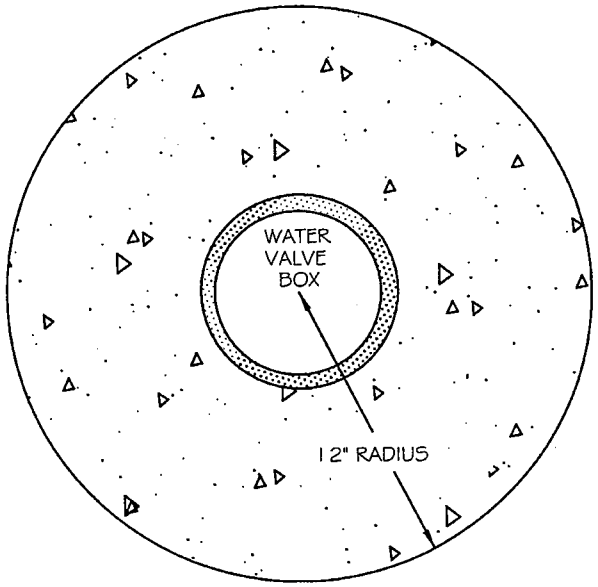
⬡ LEGEND:

1. DOUBLE STRAP ALL BRONZE SERVICE SADDLES.
2. 2" CORP STOP WITH BRONZE OR BRASS BODY, LOCKABLE, TO NORMALLY BE CLOSED.
3. O.S. & Y. GATE VALVE, FLANGED WITH HAND WHEEL OPEN LEFT, AND RISING STEM.
4. 2" BRONZE CHECK VALVE. (LOW ZINC)
5. METER HATCH PER EJ GROUP, INC. CLS2 STYLE PEDESTRIAN RATED ALUMINUM WITH SLAM LOCK OR APPROVED EQUAL. 3" & 4", 42" X 42", 6" THROUGH 10", 36" X 60". UPON APPROVAL FROM CITY, DRILL 1-¾" HOLE(S) IN HATCH FOR METER TRANSMITTER(S).
6. METER VAULT PER OLD CASTLE PRECAST COC STANDARD DRAWINGS OR APPROVED EQUAL.
7. PROVIDE 1" TO 1-1/2" OF PLAY IN THE FLEX COUPLING - CAULDER OR EQUAL.

DETAIL NO. C-316 NTS	CITY OF CHANDLER STANDARD DETAIL	**3" TO 10" METER VAULT**	APPROVED: CITY ENGINEER DATE: 01-09-2020	DETAIL NO. C-316 NTS

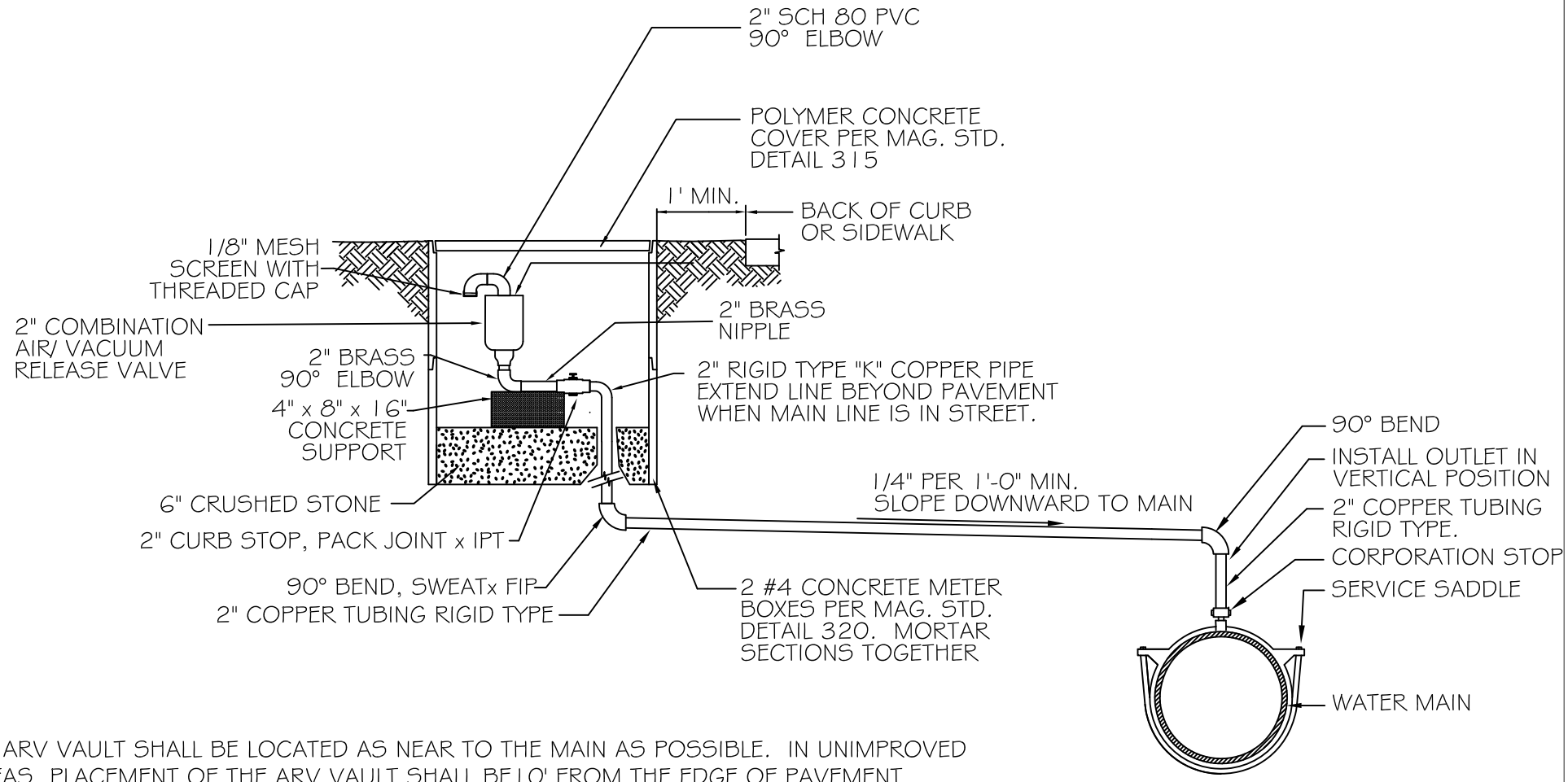


SIDE VIEW



TOP VIEW

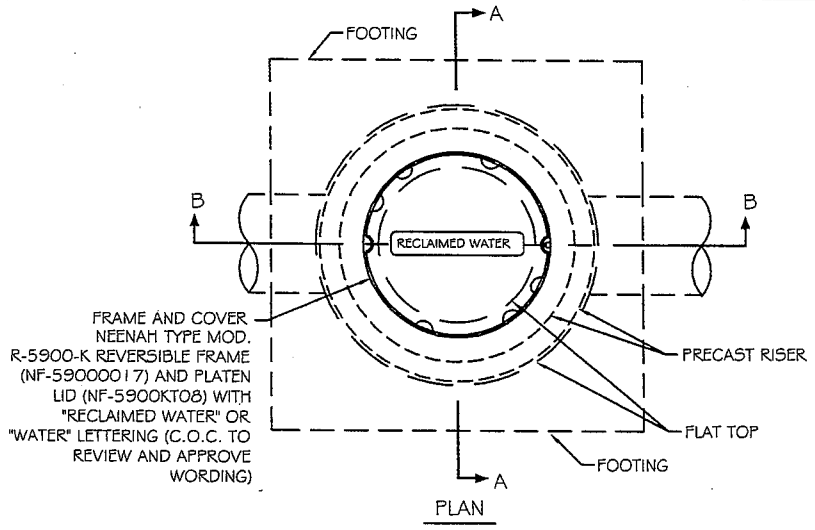
C-317 **REPLACES** **52**	CITY OF CHANDLER STANDARD DETAIL	**CONCRETE COLLAR DETAIL** **WATER VALVE BOX PLACEMENT** **UNPAVED AREAS**	APPROVED: Elizabeth Wilson CITY ENGINEER DATE: January 11, 2002	DETAIL NO. **C-317** NTS



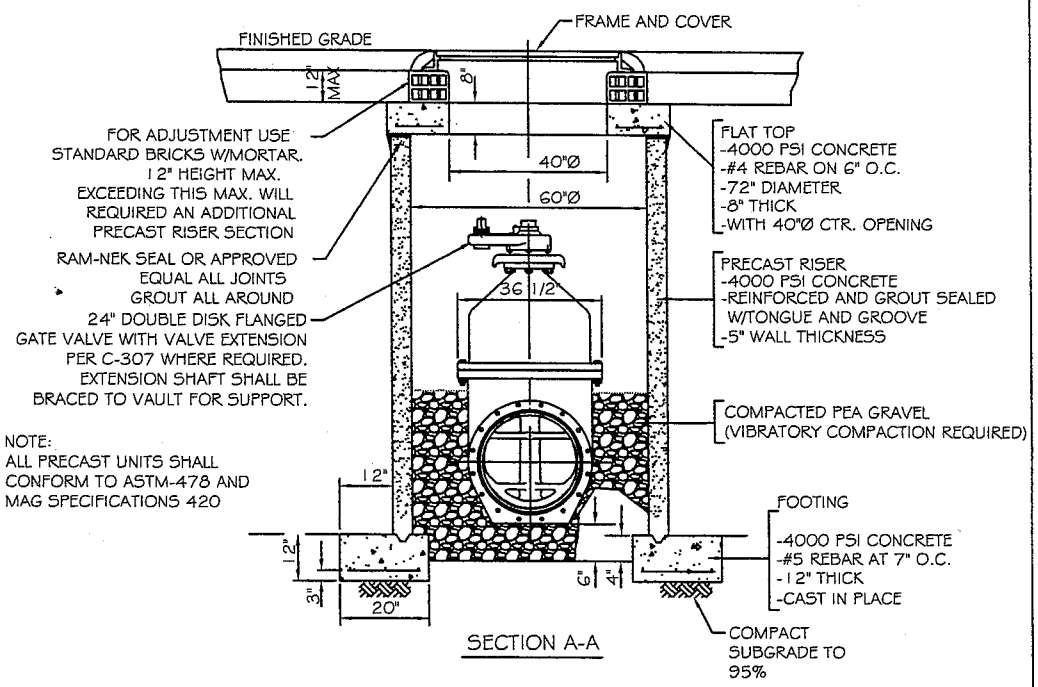
NOTES

1. THE ARV VAULT SHALL BE LOCATED AS NEAR TO THE MAIN AS POSSIBLE. IN UNIMPROVED AREAS, PLACEMENT OF THE ARV VAULT SHALL BE10' FROM THE EDGE OF PAVEMENT.
2. FOR RECLAIMED WATER APPLICATIONS, THE PIPE SHALL BE PAINTED PURPLE (PANTONE 512). POTABLE WATER SHALL BE PAINTED BLUE.
3. AIR RELEASE/VACUUM VALVE SHALL BE PER CITY LIST OF APPROVED PRODUCTS.
4. TO BE USED ONLY ON 16" AND SMALLER WATER MAINS.
5. SHALL NOT BE PLACED IN LOW AREAS WHERE WATER MAY COLLECT.

DETAIL NO. C-319 NTS	CITY OF CHANDLER STANDARD DETAIL	**2" COMBINATION AIR/VACUUM VALVE ASSEMBLY**	APPROVED: CITY ENGINEER DATE: 01-09-2020	DETAIL NO. C-319 NTS

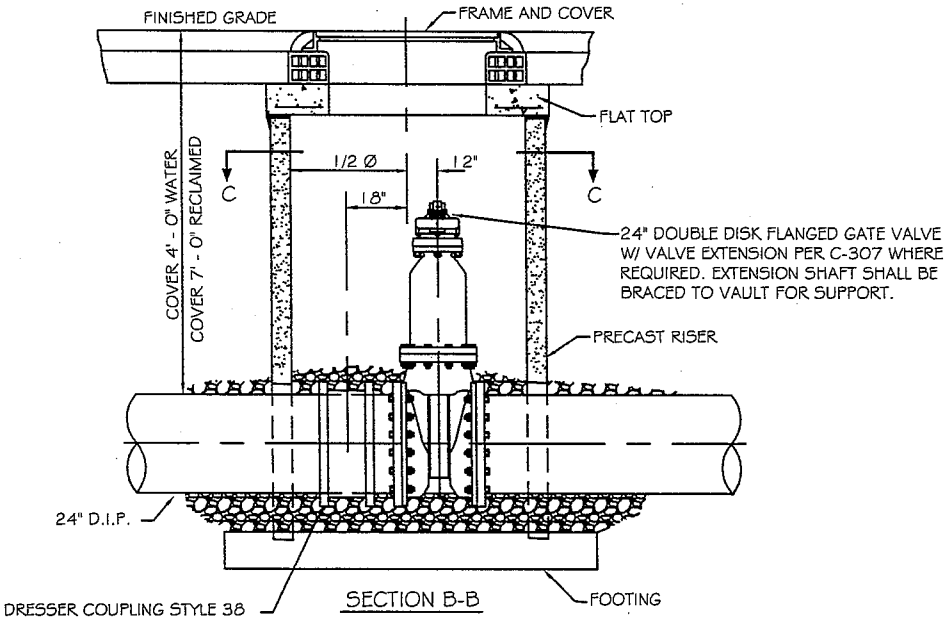


PLAN

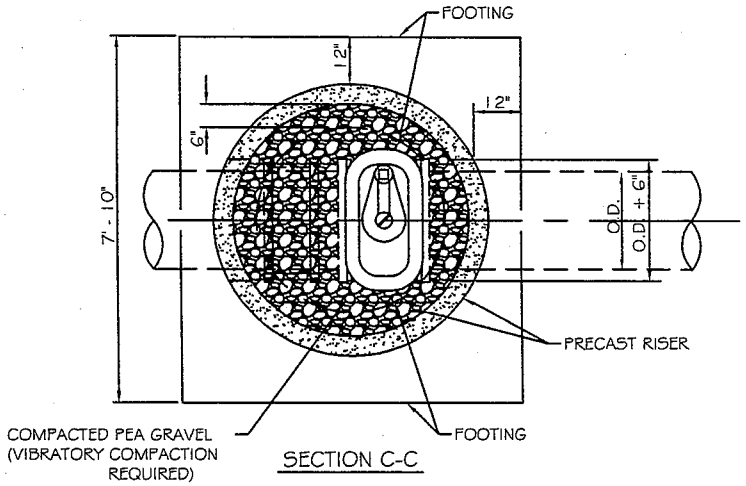


SECTION A-A

NOTE:
ALL PRECAST UNITS SHALL
CONFORM TO ASTM-478 AND
MAG SPECIFICATIONS 420

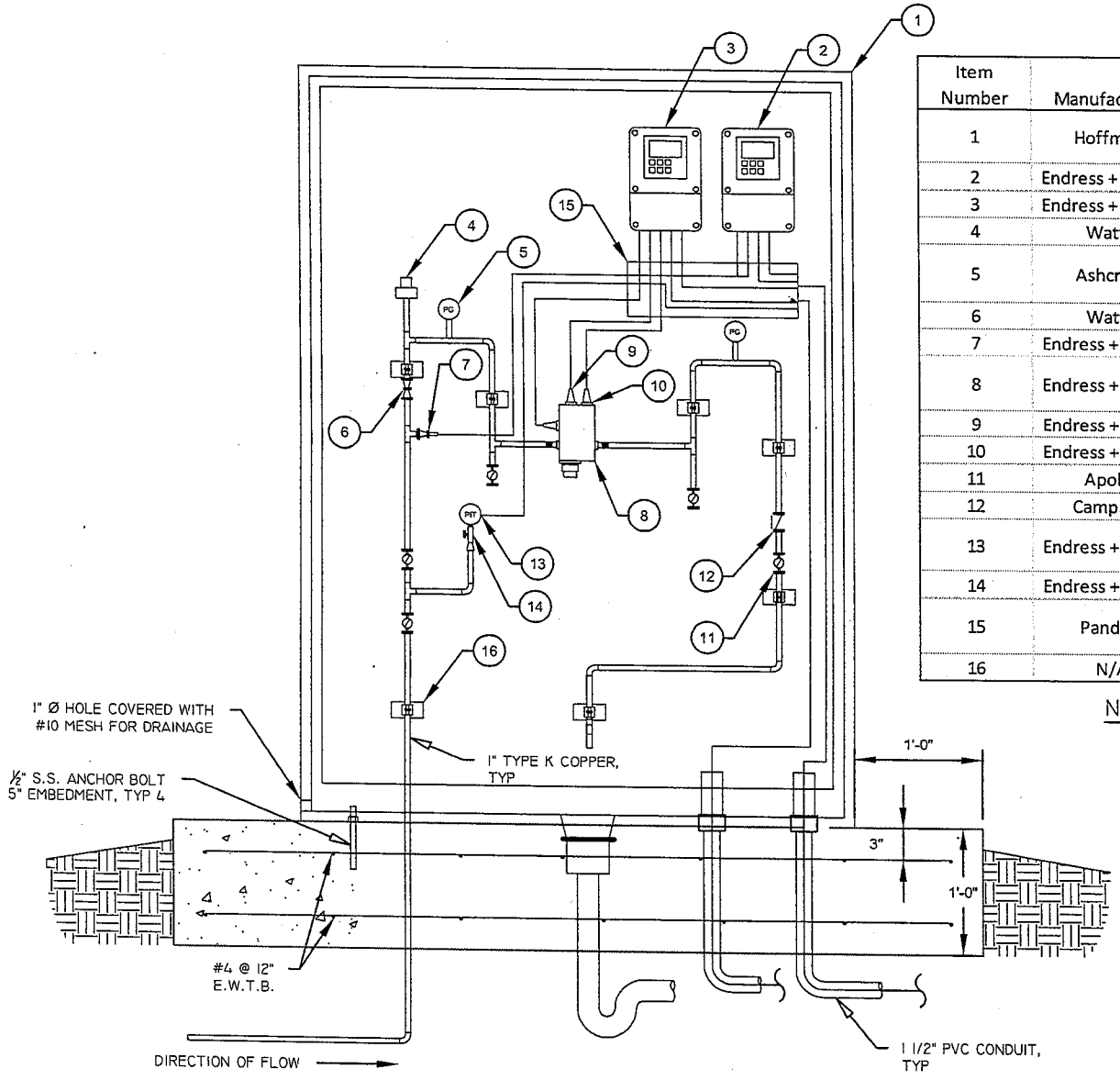


SECTION B-B



SECTION C-C

DETAIL NO. C-320 NTS	CITY OF CHANDLER STANDARD DETAIL	**VAULT FOR 24" GATE VALVE**	APPROVED: _____ CITY ENGINEER DATE: 01/19/10	DETAIL NO. C-320 NTS



NOT TO SCALE

Item Number	Manufacturer	Model Number	Description
1	Hoffman	A724818SSFSDN4	60"H x 36"W x 24"D NEMA 4X Enclosure, Stainless Steel w/ 3pt latch
2	Endress + Hauser	CCM253	pH and Chlorine Analyzer
3	Endress + Hauser	CLM253	Conductivity and Temperature Analyzer
4	Watts	FV-4M1	1" Automatic Air Vent Valve
5	Ashcroft	25-1009SW02L 100#	Pressure Gage, Stainless Steel, 2 1/2" dial, 100 psi
6	Watts	123LP	1" Pressure Reducing Valve
7	Endress + Hauser	CLS21-C3B2A	Conductivity and Temperature Sensor
8	Endress + Hauser	CCA250-A1	Flow Assembly for Chlorine and pH/ORP Sensors
9	Endress + Hauser	CPS11-2BA2ESA	pH Sensor
10	Endress + Hauser	CCS140-N	Chlorine Sensor
11	Apollo	7010501	1" Bronze Ball Valve, Standard Port
12	Campbell	CV-4T	1" Brass Check Valve
13	Endress + Hauser	PMC71-AAC1S6RDAAA1	Pressure Transmitter
14	Endress + Hauser	2VM-SS-8-RM	1/2" Stainless Steel Block and Bleed
15	Panduit	F2x2LG6C2LG6	2" x 2" Wireway, narrow slot, gray w/ cover
16	N/A	N/A	Non-metallic pipe clamp and offset

NOTES

1. INFLUENT SERVICE SHALL BE WATER TAP PER C-301.
2. EFFLUENT SHALL DISCHARGE VIA 4" AIR GAP TO 2" FLOOR DRAIN CONNECTED TO SEWER PER C-411.
3. FLOOR DRAIN SHALL BE INSTALLED WITH TRAP SEAL. BOTTOM OF CABINET SHALL BE CUT OUT TO EXPOSE.

DETAIL NO. **C-321** NTS

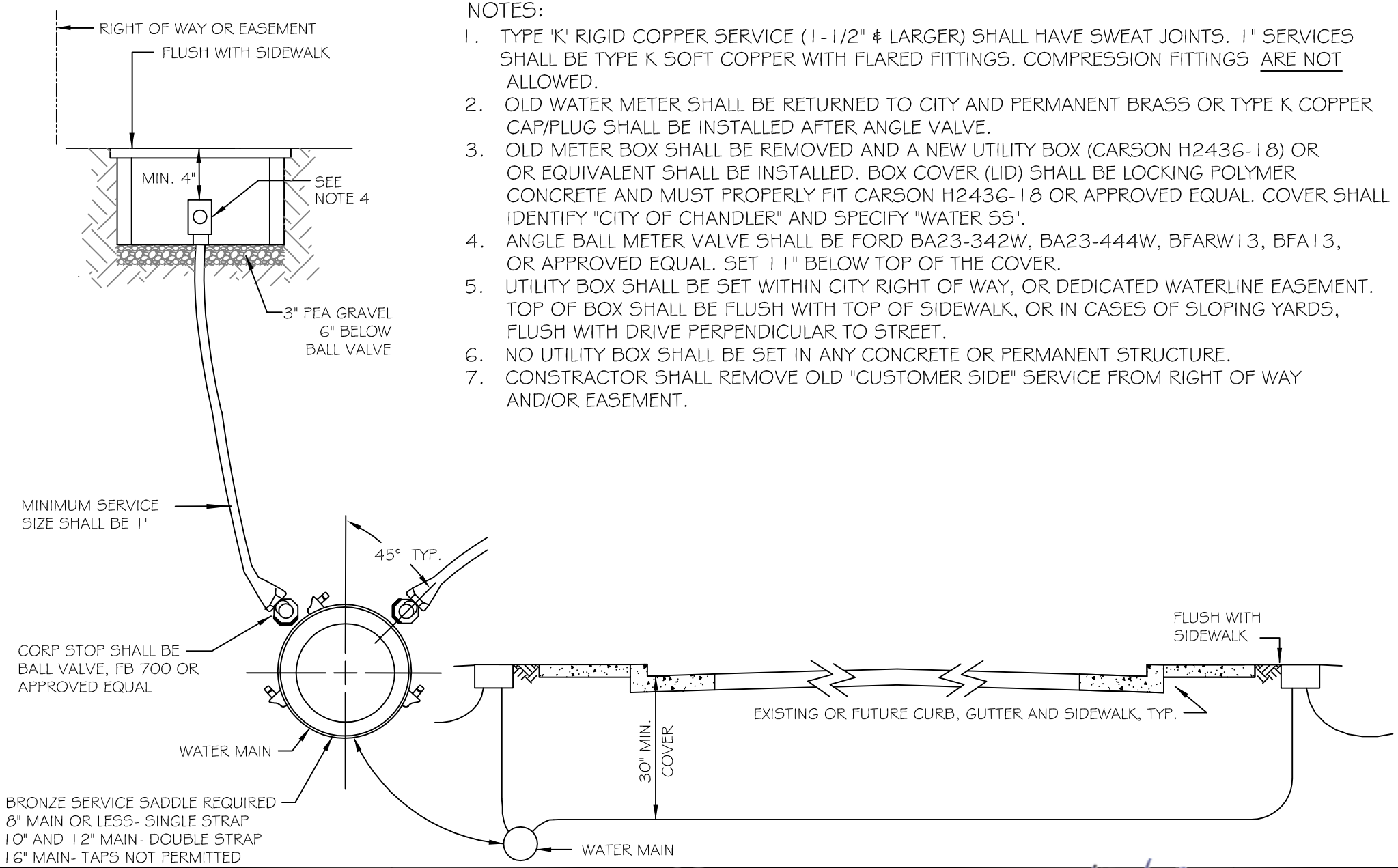
CITY OF CHANDLER STANDARD DETAIL

WATER QUALITY MONITORING STATION

APPROVED: _____ CITY ENGINEER

DATE: 01-27-11

DETAIL NO. **C-321** NTS



NOTES:

1. TYPE 'K' RIGID COPPER SERVICE (1-1/2" & LARGER) SHALL HAVE SWEAT JOINTS. 1" SERVICES SHALL BE TYPE K SOFT COPPER WITH FLARED FITTINGS. COMPRESSION FITTINGS ARE NOT ALLOWED.
2. OLD WATER METER SHALL BE RETURNED TO CITY AND PERMANENT BRASS OR TYPE K COPPER CAP/PLUG SHALL BE INSTALLED AFTER ANGLE VALVE.
3. OLD METER BOX SHALL BE REMOVED AND A NEW UTILITY BOX (CARSON H2436-18) OR OR EQUIVALENT SHALL BE INSTALLED. BOX COVER (LID) SHALL BE LOCKING POLYMER CONCRETE AND MUST PROPERLY FIT CARSON H2436-18 OR APPROVED EQUAL. COVER SHALL IDENTIFY "CITY OF CHANDLER" AND SPECIFY "WATER SS".
4. ANGLE BALL METER VALVE SHALL BE FORD BA23-342W, BA23-444W, BFARW13, BFA13, OR APPROVED EQUAL. SET 11" BELOW TOP OF THE COVER.
5. UTILITY BOX SHALL BE SET WITHIN CITY RIGHT OF WAY, OR DEDICATED WATERLINE EASEMENT. TOP OF BOX SHALL BE FLUSH WITH TOP OF SIDEWALK, OR IN CASES OF SLOPING YARDS, FLUSH WITH DRIVE PERPENDICULAR TO STREET.
6. NO UTILITY BOX SHALL BE SET IN ANY CONCRETE OR PERMANENT STRUCTURE.
7. CONSTRACTOR SHALL REMOVE OLD "CUSTOMER SIDE" SERVICE FROM RIGHT OF WAY AND/OR EASEMENT.

DETAIL NO. C-322 NTS	CITY OF CHANDLER STANDARD DETAIL	**POTABLE WATER METER SAMPLING STATION CONVERSION**	APPROVED: _____ CITY ENGINEER DATE: 3/14/2013	DETAIL NO. C-322 NTS