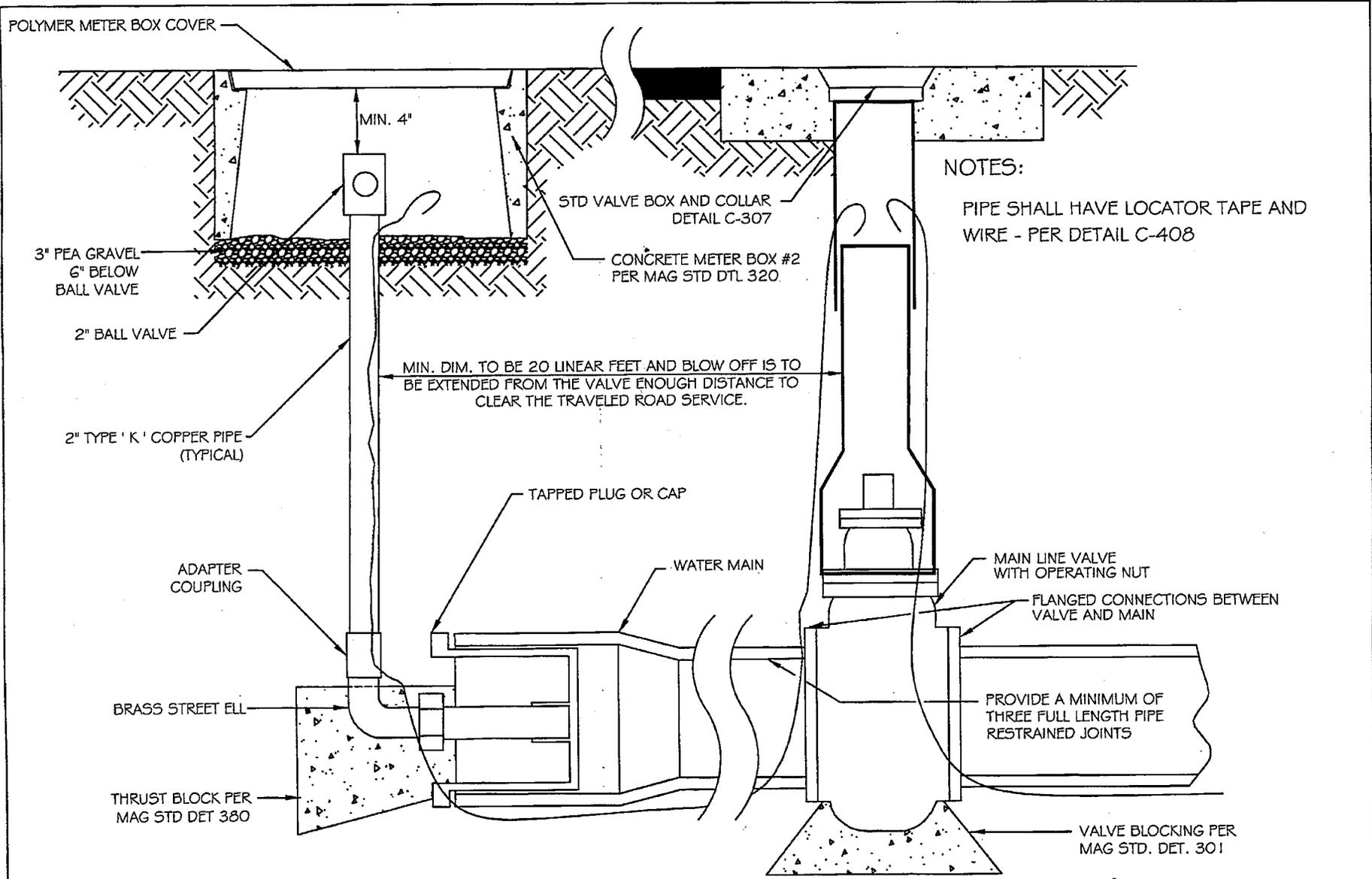


WATER
C-300 TO C-322



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

MIN. DIM. TO BE 20 LINEAR FEET AND BLOW OFF IS TO BE EXTENDED FROM THE VALVE ENOUGH DISTANCE TO CLEAR THE TRAVELED ROAD SERVICE.

PROVIDE A MINIMUM OF THREE FULL LENGTH PIPE RESTRAINED JOINTS

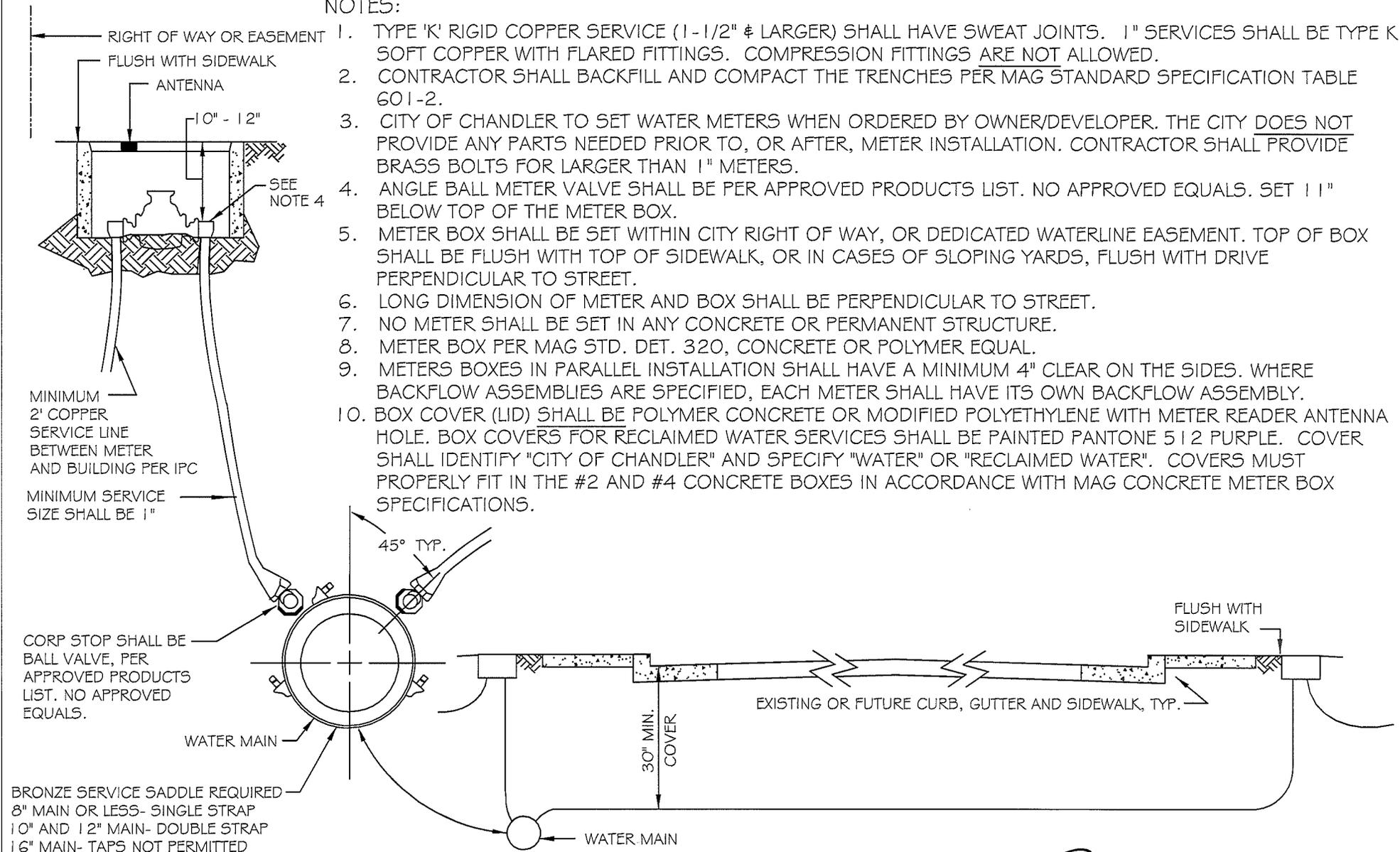
VALVE BLOCKING PER MAG STD. DET. 301

DETAIL NO. C-300 NTS	 CITY OF CHANDLER STANDARD DETAIL	FLUSHING PIPE ASSEMBLY WITH BALL VALVE	APPROVED: <i>[Signature]</i> CITY ENGINEER DATE: 01/08/09	DETAIL NO. C-300 NTS
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CAUTION: BEFORE SERVICES ARE INSTALLED, DRIVEWAY LOCATIONS SHOULD BE VERIFIED AND THE SERVICES CONSTRUCTED TO AVOID CONFLICTS

NOTES:

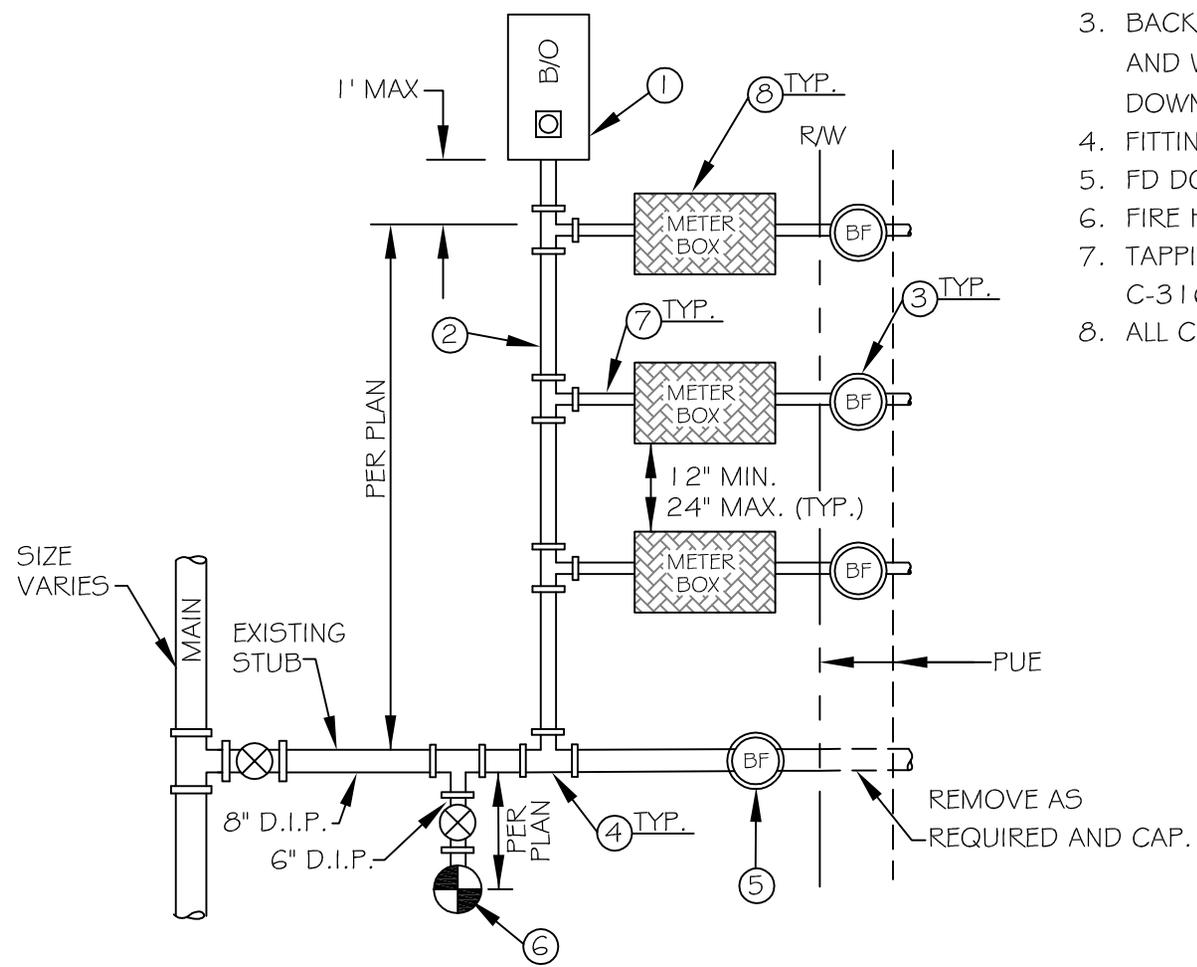
1. TYPE 'K' RIGID COPPER SERVICE (1-1/2" & LARGER) SHALL HAVE SWEAT JOINTS. 1" SERVICES SHALL BE TYPE K SOFT COPPER WITH FLARED FITTINGS. COMPRESSION FITTINGS ARE NOT ALLOWED.
2. CONTRACTOR SHALL BACKFILL AND COMPACT THE TRENCHES PER MAG STANDARD SPECIFICATION TABLE 601-2.
3. CITY OF CHANDLER TO SET 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.
4. ANGLE BALL METER VALVE SHALL BE PER APPROVED PRODUCTS LIST. NO APPROVED EQUALS. SET 1 1/2" 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 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: <i>[Signature]</i> CITY ENGINEER DATE: 07-09-2015	DETAIL NO. C-301 PAGE 1 OF 2
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○ 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

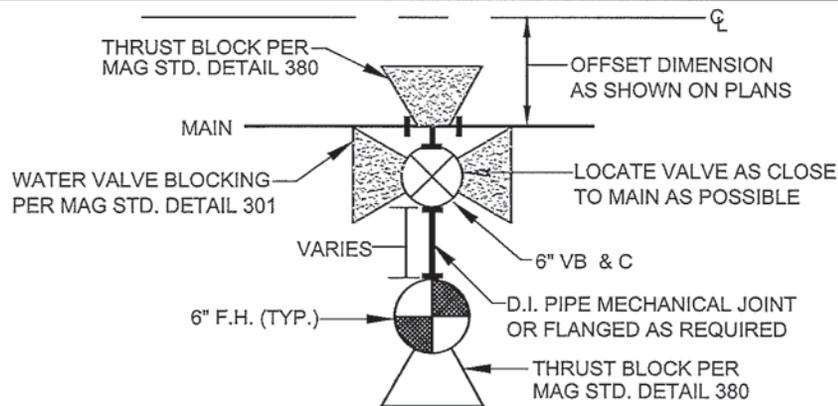


CITY OF
CHANDLER
STANDARD
DETAIL

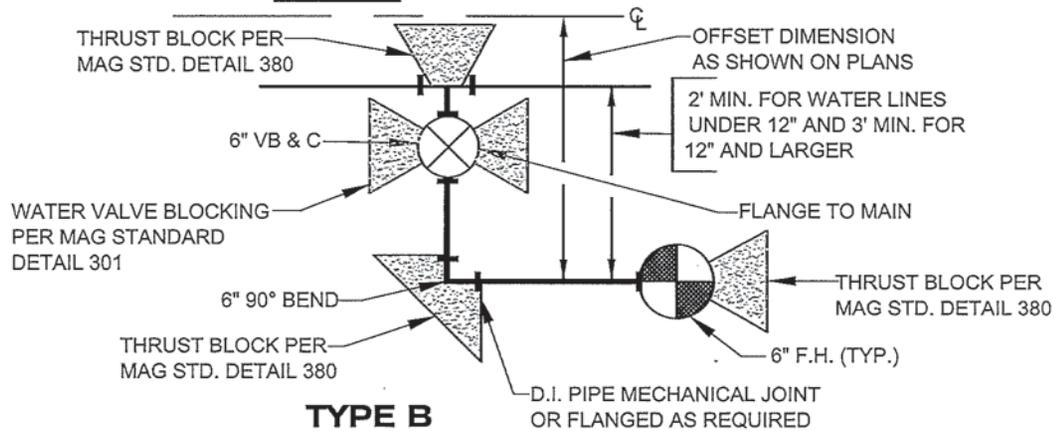
**MULTI-METER
WATER SERVICE INSTALLATION**

APPROVED: *[Signature]*
CITY ENGINEER
DATE: 3/14/2013

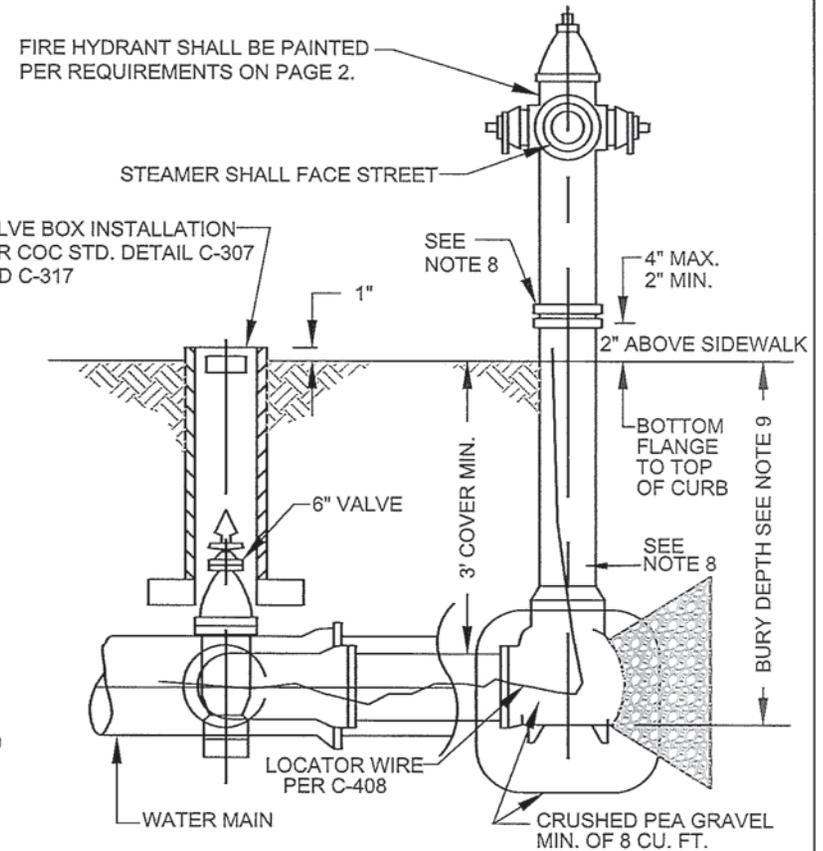
DETAIL NO.
C-301
PAGE 2 OF 2



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. INSTALLATION OF HYDRANT SHALL INCLUDE INSTALLATION OF REFLECTOR ON ADJACENT STREET(S) PER MAG STD DTL 122.~~
5. 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.
6. CAP CHAINS SHALL BE REMOVED AND THREADS GREASED WITH MANUFACTURER APPROVED HYDRANT GREASE.
7. EXTENSIONS ARE NOT ALLOWED.
8. STANDARD BURY DEPTHS ARE 36", 48", AND 54". ALL FITTINGS BETWEEN FH VALVE AND 6" HYDRANT RUNOUT SHALL BE RESTRAINED BY FLANGES.

4-12-16
No longer required

DETAIL NO.
C-303
PAGE 1 OF 2



CITY OF CHANDLER
STANDARD DETAIL

FIRE HYDRANT INSTALLATION

APPROVED: *Daniel W. [Signature]*
CITY ENGINEER
DATE: 1-14-16

DETAIL NO.
C-303
PAGE 1 OF 2

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.

DETAIL NO.

C-303

PAGE 2 OF 2



CITY OF CHANDLER
STANDARD DETAIL

FIRE HYDRANT COLOR CODE

APPROVED:

David W. Cole
CITY ENGINEER

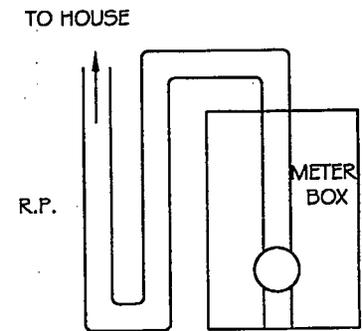
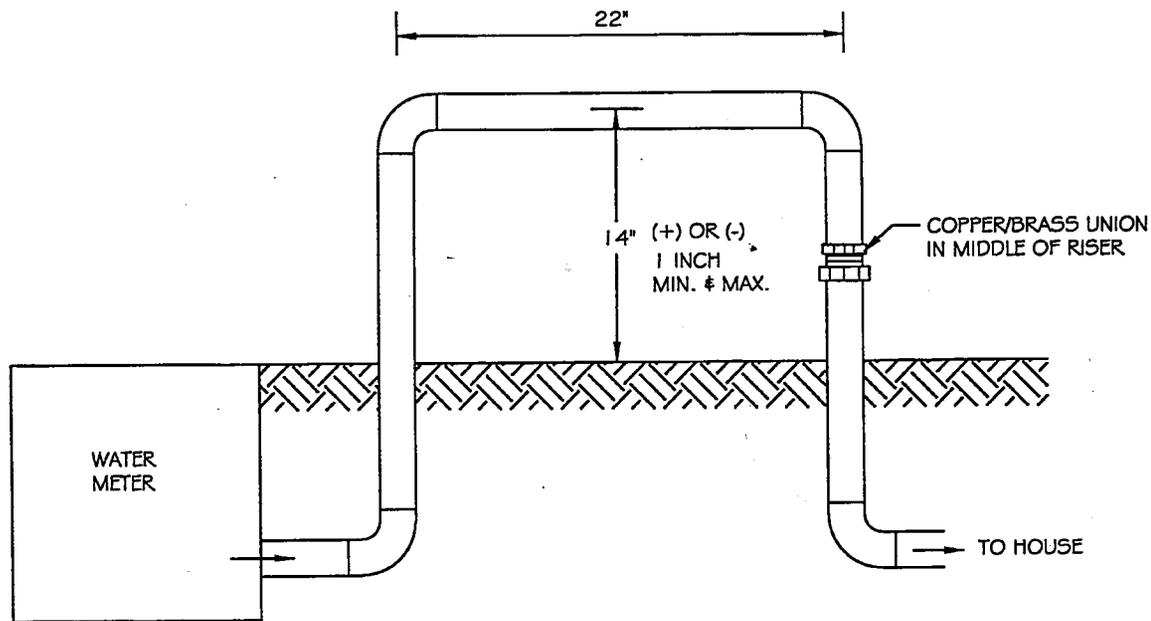
DATE:

1-14-16

DETAIL NO.

C-303

PAGE 2 OF 2



**ALTERNATE
INSTALLATION**

SEE NOTE 8

NOTES:

1. ALL PIPE/FITTINGS TO BE TYPE 'K' RIGID COPPER.
2. INSTALL COPPER PIPE LOOP DIRECTLY BEHIND, DOWNSTREAM OF WATER METER/WATER METER BOX.
3. COPPER LOOP TO BE 14 INCHES ABOVE GRADE PLUS OR MINUS ONE INCH.
4. COPPER LOOP TO BE LEVEL MEASURED WITH CONTRACTOR'S BUBBLE LEVEL.
5. TOP OF LOOP TO BE ONE SOLID PIECE OF PIPE. NO COUPLINGS OR JOINTED PIPE.
6. COMPRESSION TYPE FITTINGS ARE NOT ALLOWED.
7. A COPPER/BRASS UNION TO BE INSTALLED IN MIDDLE OF DOWNSTREAM RISER.
8. COPPER LOOP MAY BE INSTALLED ADJACENT TO METER BOX ON A CASE BY CASE BASIS WITH A MAXIMUM OF 24 INCHES OF PIPE EXTENDED UPSTREAM OF COPPER LOOP TO ALLOW COPPER LOOP TO SIT ADJACENT TO METER/WATER BOX.
9. COPPER LOOP LENGTH TO BE 22 INCHES IN LENGTH MEASURED FROM CENTER TO CENTER OF EACH RISER PIPE.
10. THIS DETAIL IS TO BE USED IN CONJUNCTION WITH A RECLAIMED WATER SYSTEM.

**C-302
REPLACES
103B**



CITY OF
CHANDLER
STANDARD
DETAIL

**RESIDENTIAL BACKFLOW
PREVENTION ASSEMBLY
INSTALLATION - 1" OR UNDER**

APPROVED:

Raymond D. Fallow
CITY ENGINEER

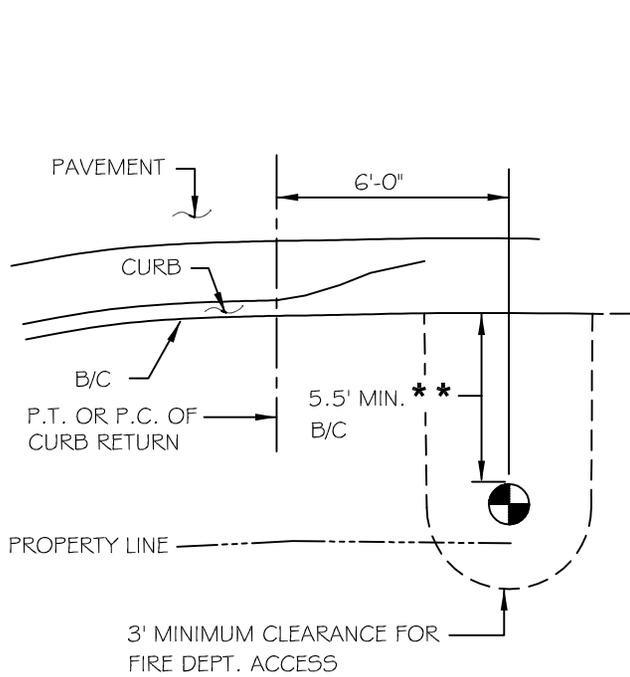
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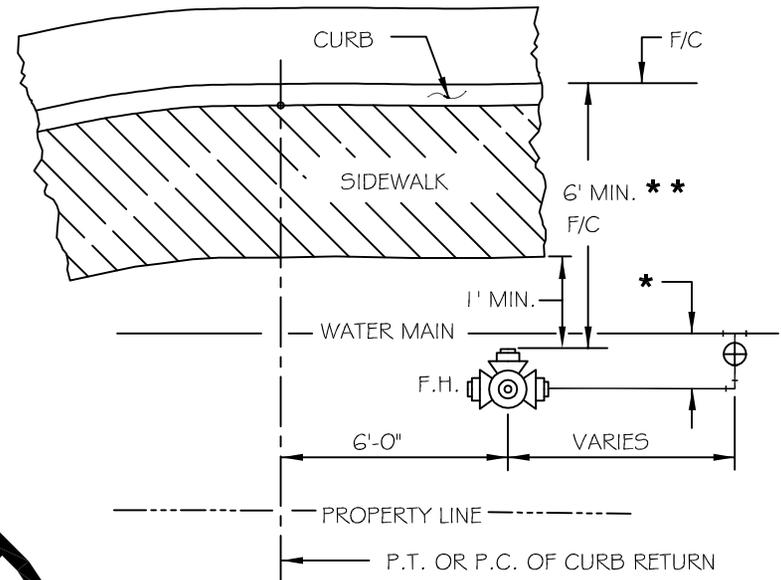
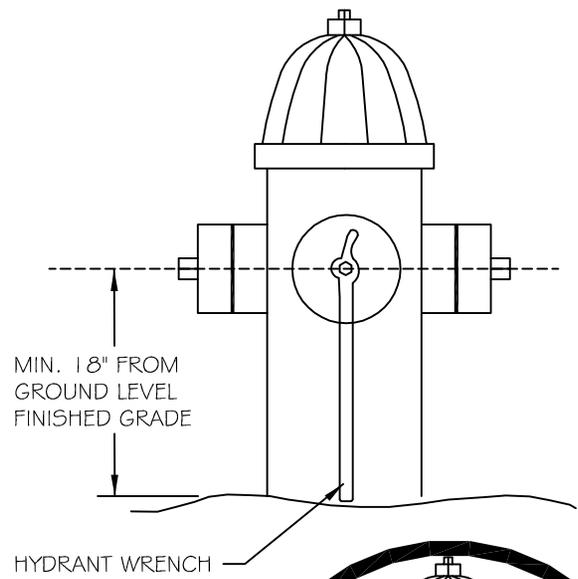
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C-302

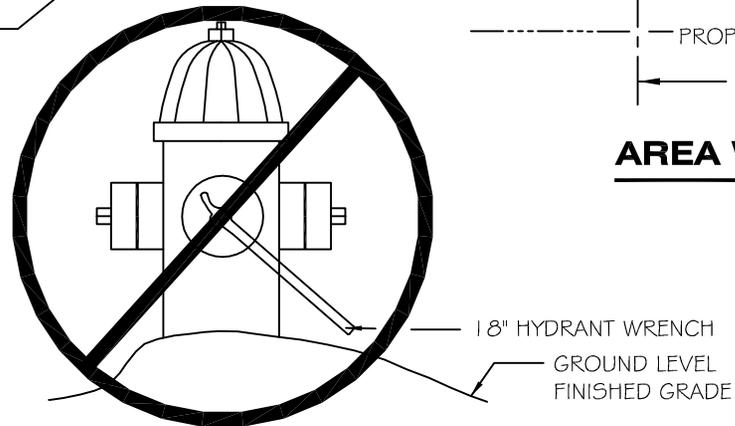
NTS



PARKWAY AREA, NO SIDEWALK



AREA WITH SIDEWALK



NOTES:

1. DIMENSION PER COC STANDARD DETAIL C-303.
2. COC STANDARD DETAIL C-303, TYPE B INSTALLATION SHOWN.
3. DIMENSIONS SHOWN ON APPROVED CONSTRUCTION DRAWINGS SUPERSEDE LOCATIONS SHOWN HERE.
4. OBSTRUCTIONS SUCH AS UTILITY POLES, STREET SIGNS, IRRIGATION BOXES, FENCES, ETC., MUST NOT BE PLACED BETWEEN CURB AND HYDRANT.
5. ON LOCATIONS IN MID BLOCK, THE FIRE HYDRANT WILL BE ALIGNED WITH A PROPERTY LINE AND 6' MINIMUM FROM DRIVEWAYS.
6. ALL FIRE HYDRANTS INSTALLED PER STANDARD DETAIL C-303 SHALL BE LOCATED IN ACCORDANCE WITH THIS DETAIL.
7. **MINIMUM DIMENSION MUST BE SIDEWALK WIDTH PLUS ONE (1) FOOT OR SIX (6) FEET FROM FACE OF CURB, WHICHEVER IS GREATER.
8. IN INDUSTRIAL/COMMERCIAL ZONES A MINIMUM OF 6' FROM DRIVEWAYS SHALL BE MAINTAINED WITH VALVE INSTALLED AWAY FROM DRIVEWAY.
9. 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:

Kevin Liff

CITY ENGINEER

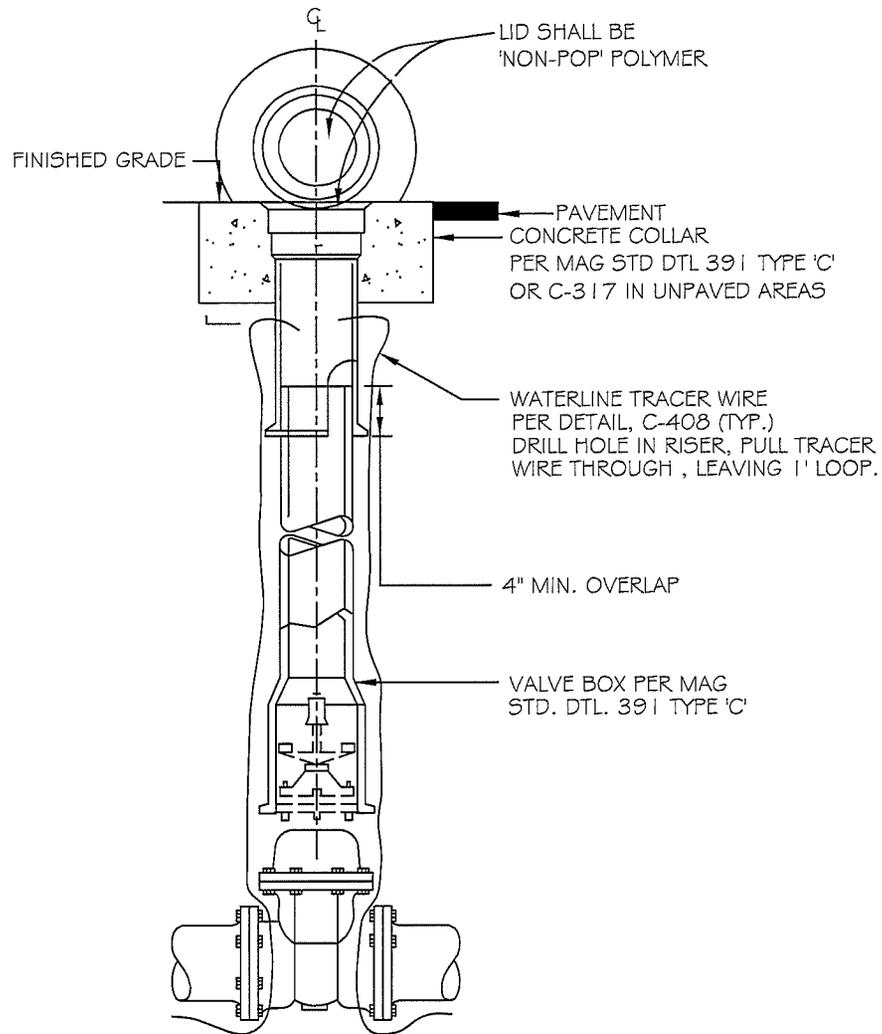
DATE:

02/09/12

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:

Randy Cook
 CITY ENGINEER

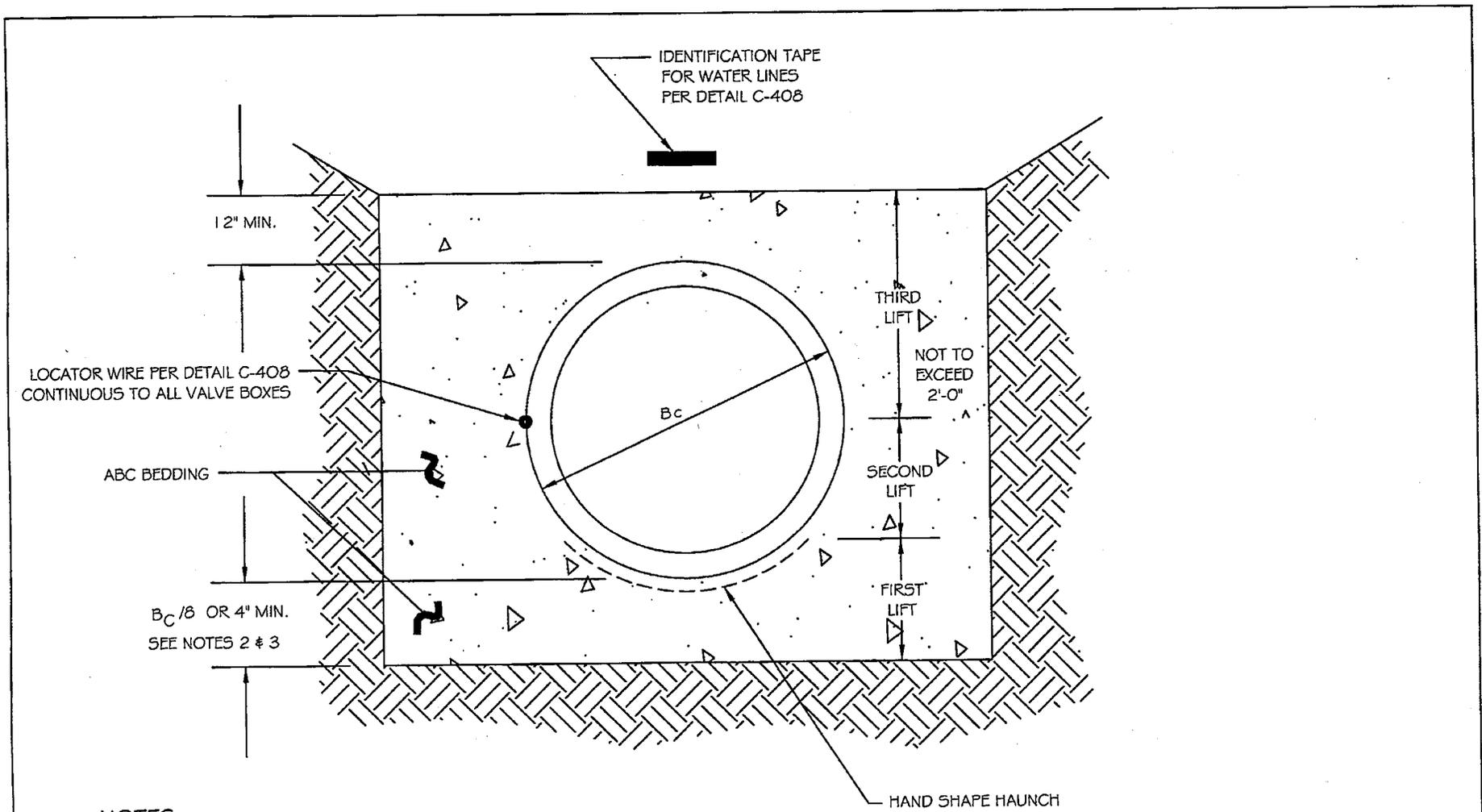
DATE:

07-09-2015

DETAIL NO.

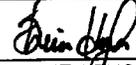
C-307

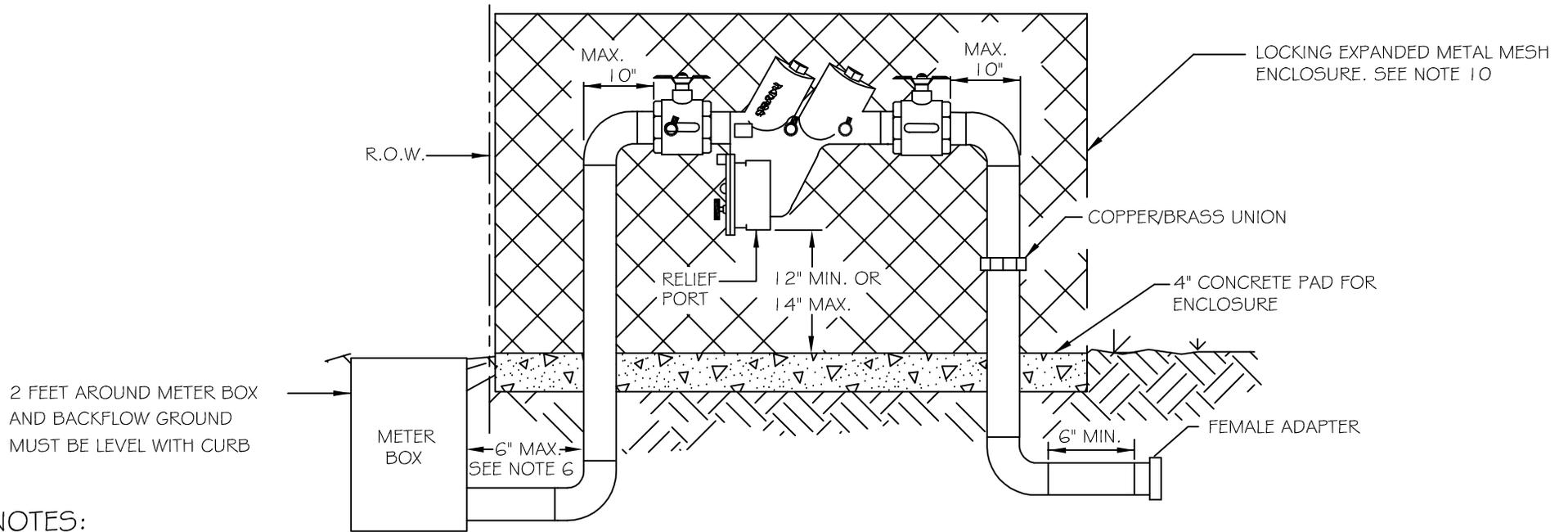
NTS



NOTES:

1. TRENCH WIDTH IN ACCORDANCE WITH MAG STD. TABLE 601-1.
2. MINIMUM 4" FOR PIPES 12" OR SMALLER.
3. MINIMUM 6" FOR PIPES LARGER THAN 12".

DETAIL NO. C-308 NTS	 CITY OF CHANDLER STANDARD DETAIL	WATER PIPE BEDDING DETAIL	APPROVED:  CITY ENGINEER DATE: 01/08/09	DETAIL NO. C-308 NTS
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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 LINESSETTER.
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 TNEVEC 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:

Kevin G. [Signature]
CITY ENGINEER

DATE:

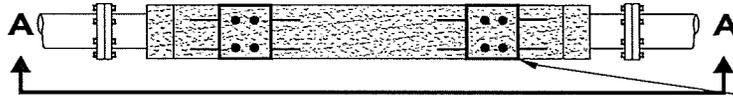
3/14/2013

DETAIL NO.

C-311

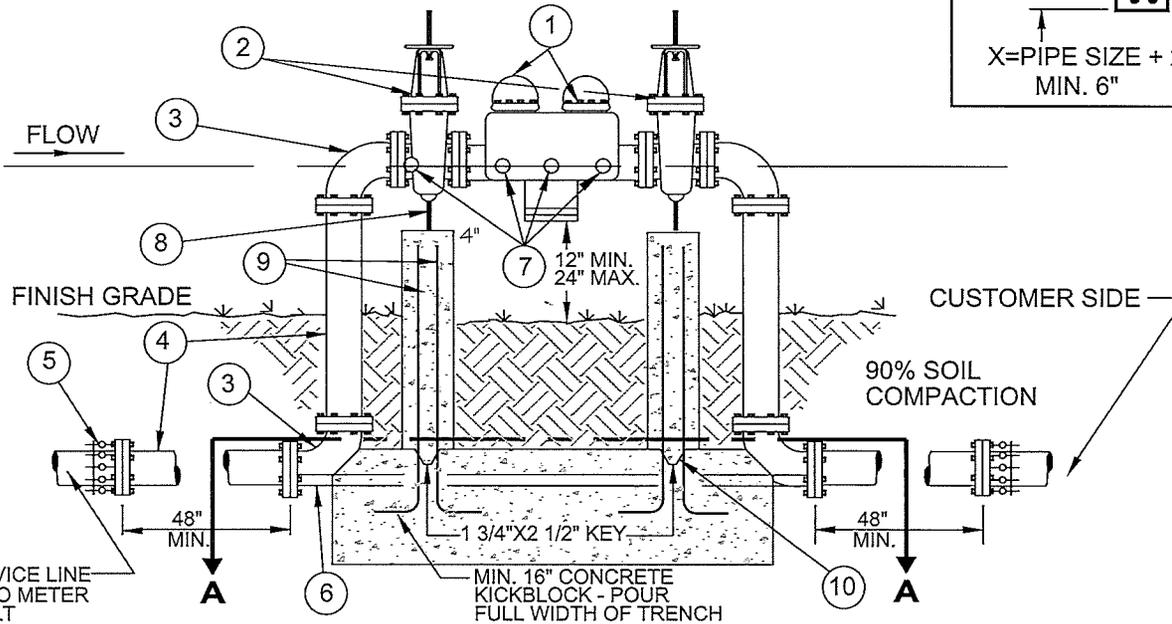
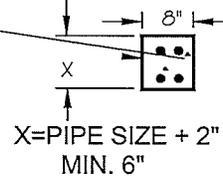
NTS

SERVICE LINE



TOP VIEW

MONOLITHIC SUPPORT DIMENSIONS



SIDE VIEW

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:

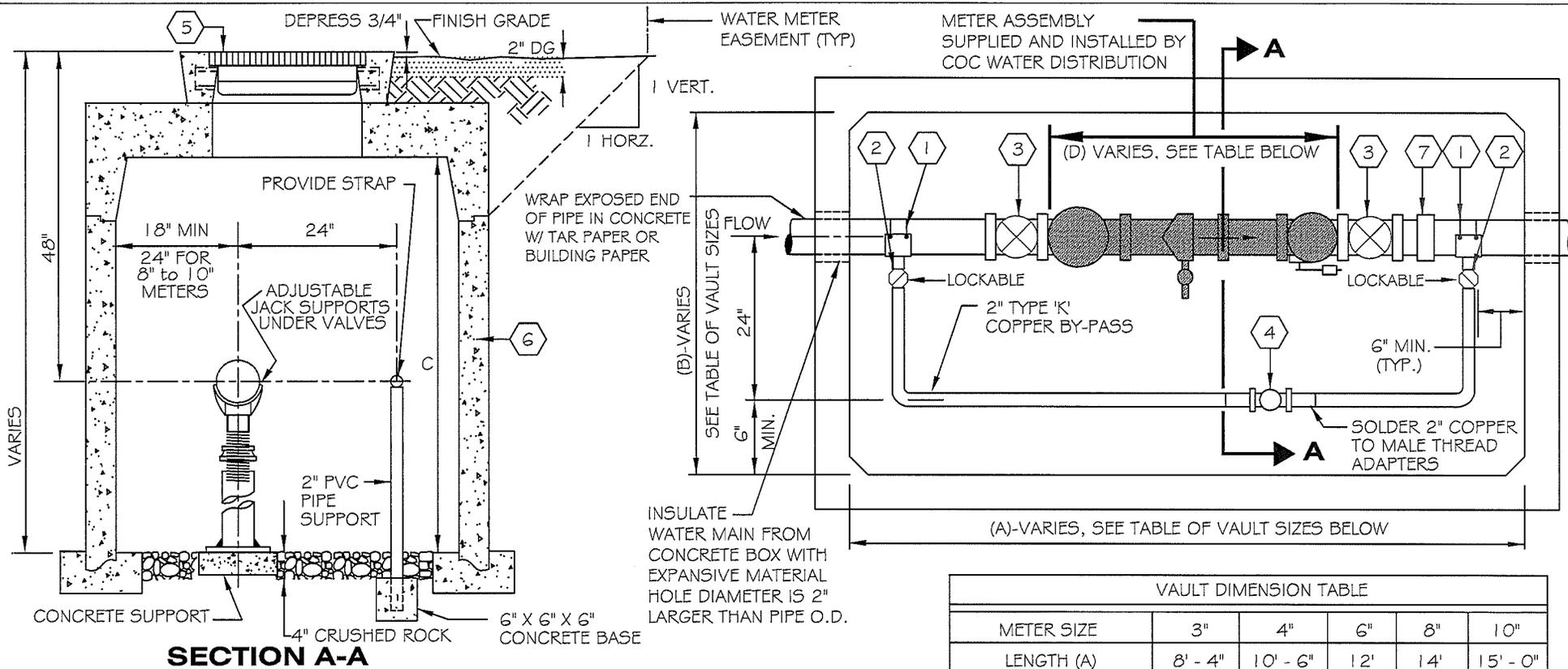
David W. Cole
CITY ENGINEER

DATE:

1-14-16

DETAIL NO.

C-315
NTS



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 SHALL BE FULLY RESTRAINED BEYOND INLET AND OUTLET OF VAULT.
5. CONTRACTOR SHALL PROVIDE FLANGED SPOOL IN METER ASSEMBLY BLOCK-OUT TO PROVE CORRECT ALIGNMENT. SPOOL MAY BE SALVAGED AFTER METER INSTALLATION.
6. 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 1-3/4" 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:

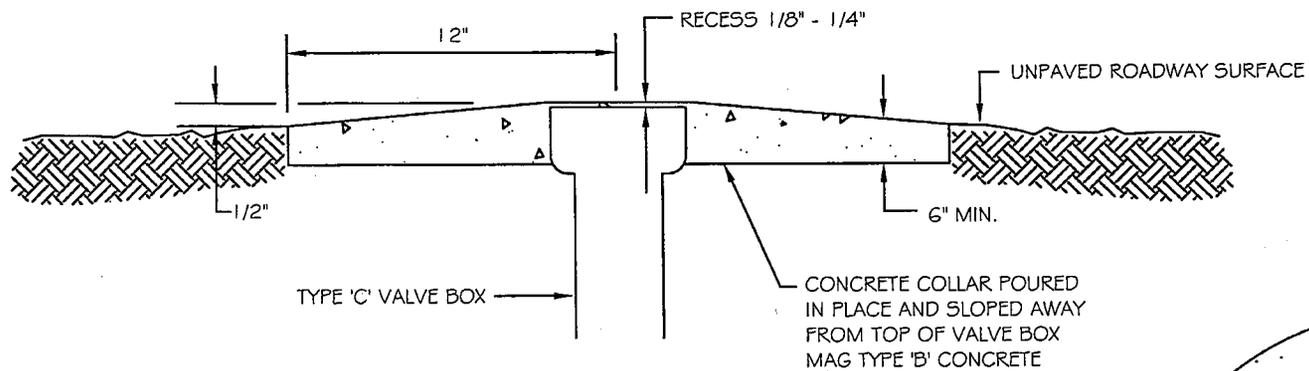
David Cook
CITY ENGINEER

DATE: 07-09-2015

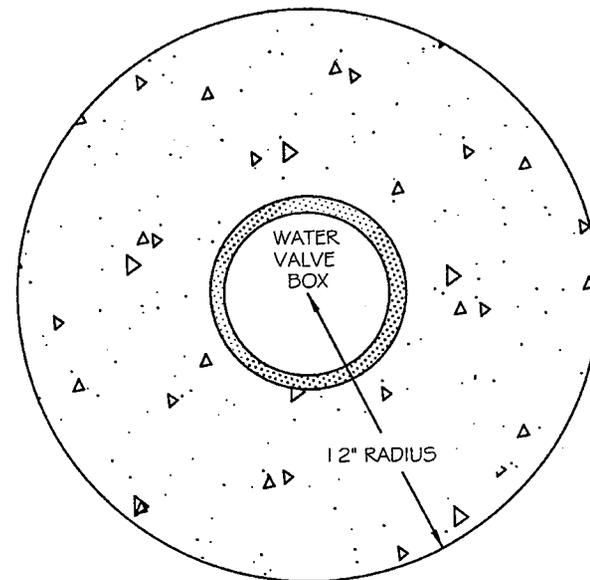
DETAIL NO.

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:

DATE:

Elizabeth M. [Signature]
 CITY ENGINEER
 January 11, 2002

DETAIL NO.

C-317

NTS

EXPANDED METAL MESH ENCLOSURE. SEE NOTE 4.

1/8" MESH SCREEN WITH THREADED CAP

PAD FOR ENCLOSURE

2" SCH 80 CPVC 90° ELBOW

CONCRETE THRUST BLOCK PER MAG STD. DET. 380

FIELD CUT PVC PIPE, INSTALL 2" FERNCO COUPLING W/ STAINLESS STEEL BANDS OR APPROVED EQUAL.

6" CRUSHED STONE
2" CURB STOP, PACK JOINT x IPT

90° BEND, SWEATx FIP
2" COPPER TUBING RIGID TYPE

2" SCH 80 CPVC 90° ELBOWS
2" SCH 80 CPVC PIPE

2" BRASS 90° ELBOW
4" x 8" x 16" CONCRETE SUPPORT

1" MIN.

BACK OF CURB OR SIDEWALK

2" COMBINATION AIR/ VACUUM RELEASE VALVE

2" BRASS NIPPLE

2" RIGID TYPE "K" COPPER PIPE EXTEND LINE BEYOND PAVEMENT WHEN MAIN LINE IS IN STREET.

1/4" PER 1'-0" MIN. SLOPE DOWNWARD TO MAIN

2 #4 CONCRETE METER BOXES PER MAG. STD. DETAIL 320. MORTAR SECTIONS TOGETHER

90° BEND

INSTALL OUTLET IN VERTICAL POSITION

2" COPPER TUBING RIGID TYPE.

CORPORATION STOP

SERVICE SADDLE

WATER MAIN

NOTES

1. THE ARV VAULT SHALL BE LOCATED AS NEAR TO THE MAIN AS POSSIBLE. IN UNIMPROVED AREAS, PLACEMENT OF THE ARV VAULT SHALL BE 10' 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 APCO-145C OR A.R.I. D-040.
4. ENCLOSURE SHALL BE GUARD SHACK OR EQUIVALENT, PAINTED 'DESERT TAN' WITH TNEMEC EDUROSHIELD PER MFG'S INSTRUCTIONS. MINIMUM 12 MILS DFT.

DETAIL NO.

C-319

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

**2" COMBINATION AIR/VACUUM
VALVE ASSEMBLY**

APPROVED:

John Hill
CITY ENGINEER

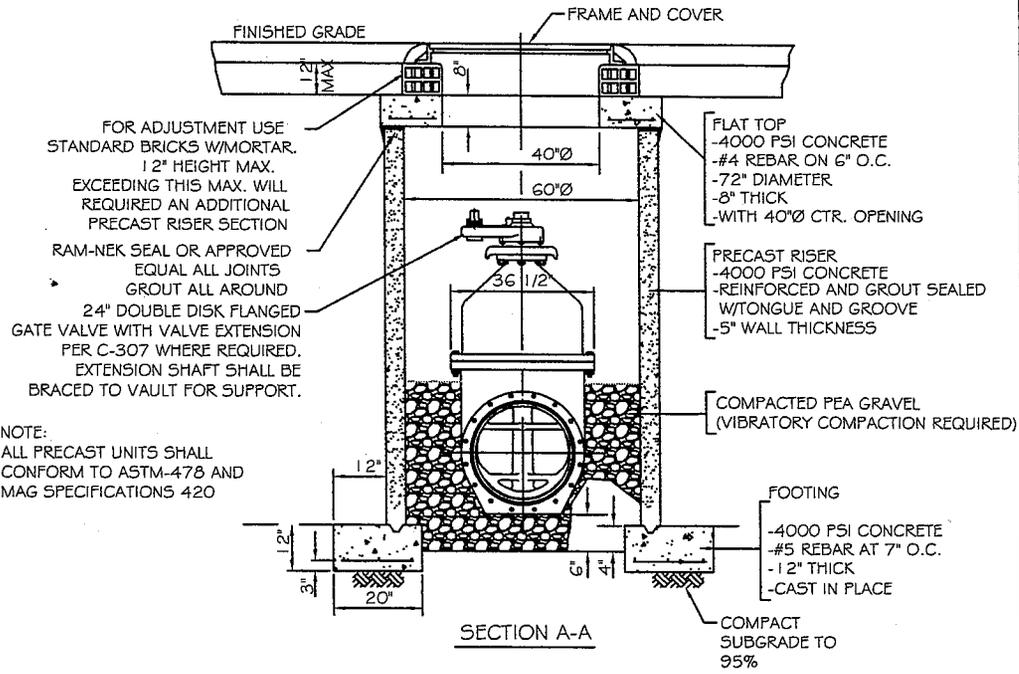
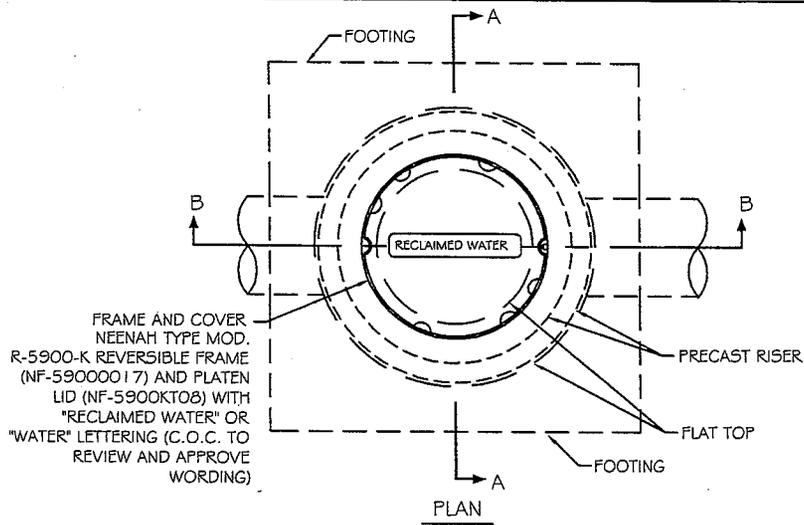
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01-27-11

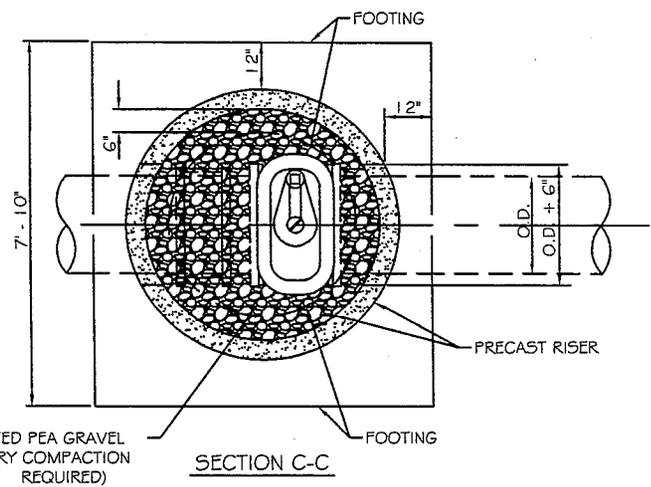
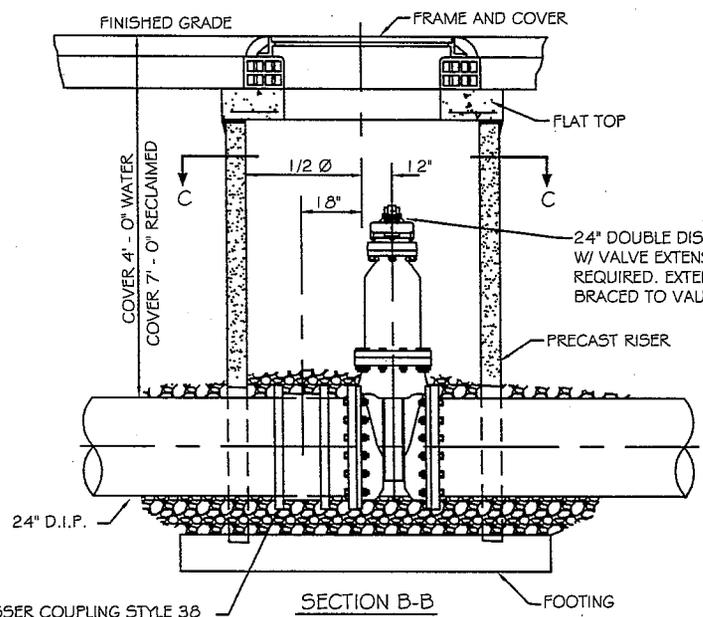
DETAIL NO.

C-319

NTS



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



DETAIL NO.
C-320
NTS

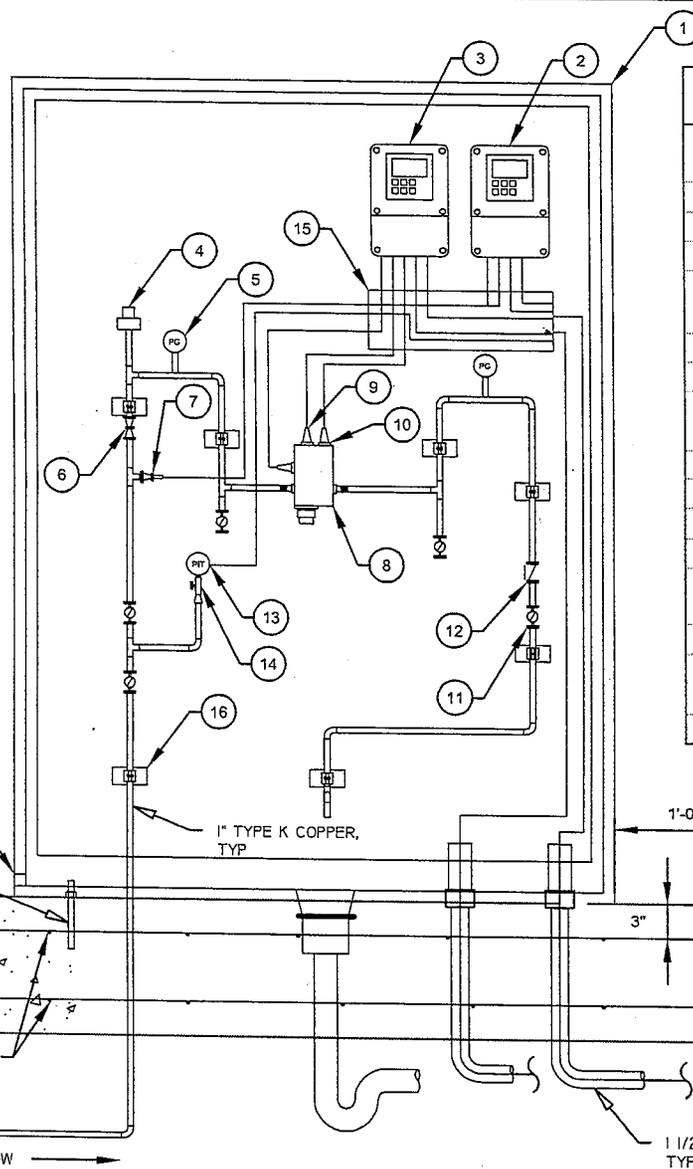


CITY OF
CHANDLER
STANDARD
DETAIL

VAULT FOR 24" GATE VALVE

APPROVED: *[Signature]*
CITY ENGINEER
DATE: 01/19/10

DETAIL NO.
C-320
NTS



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	ZVM-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.

1" Ø HOLE COVERED WITH #10 MESH FOR DRAINAGE
 1/2" S.S. ANCHOR BOLT 5" EMBEDMENT, TYP 4

DIRECTION OF FLOW →

NOT TO SCALE

DETAIL NO.
C-321
 NTS

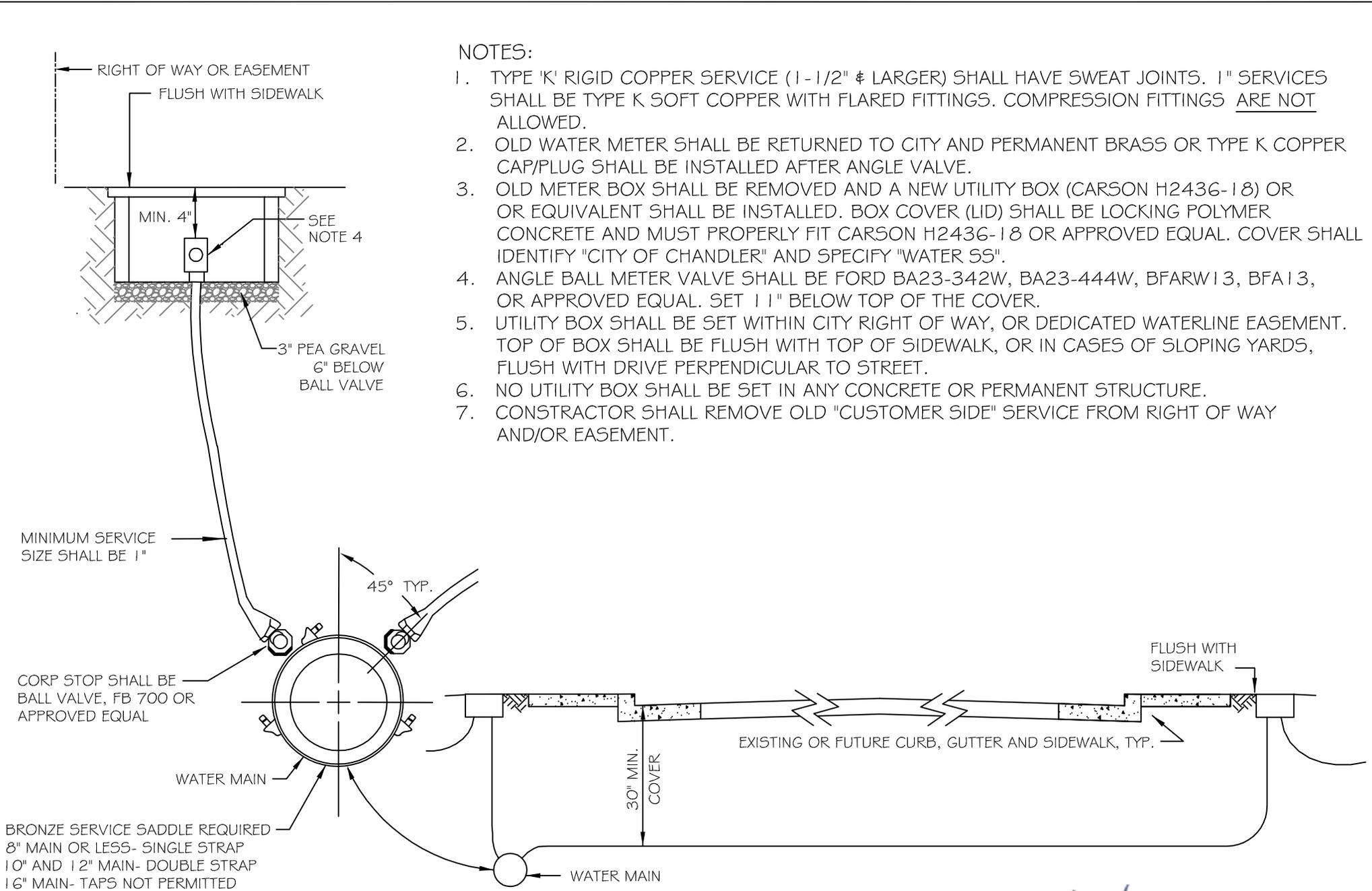


CITY OF CHANDLER
 STANDARD
 DETAIL

**WATER QUALITY
 MONITORING STATION**

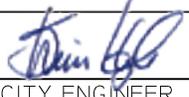
APPROVED: *Kevin Hoyle*
 CITY ENGINEER
 DATE: 01-27-11

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 1 1/2" 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. CONSTRUCTOR 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: <u>3/14/2013</u>	DETAIL NO. C-322 NTS
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