VALVE EXTENSION (SD-W11)

TYPE – B VALVE EXTENSION

- 3/16" X 1 3/4" X 2" FB
- 3/16" X 2" X 2" SQTBG
- SQUARE HEAD
- CENTERING RING
- 3/16" X 4 1/2"ø 1-GUIDE
- 1" SOLID STEEL VARI. LENGTH
- 3/16" X 2 1/2" FB
- 3/16" X 2 1/2" X 2 1/2" SQT X 2" LONG – 1
- 3/8" NC CS X 1" LG. W. DOUBLE NUT
- 3/8" X 1" X 2" X 2" LONG. (SEE DETAIL)

SPRING LOCK VALVE EXTENSION

- SQUARE HEAD
- 1" SOLID STEEL
- LOWER NUTSOCKET
- SPRING LOCK .075 THICK 47/64 WIDE
- 6" MIN. — 240" MAX

NOTE: TO BE USED ON ALL VALVES DEEPER THAN 5'-0".

DETAIL

VALVE EXTENSION — STANDARD CONSTRUCTION DETAILS WATER — DATE: AUGUST, 2010 — REV DATE: — — SHEET: SD-W11

DETAIL OF UTILITY SUPPORT / DETAIL OF WATER MAIN LOWERING

DETAIL OF UTILITY SUPPORT

- PROPOSED TRENCH WIDTH FOR STORM SEWER
- EXISTING WATER LINE
- PROPOSED STORM SEWER
- FLOWABLE FILL EMBEDMENT

DETAIL OF WATER MAIN LOWERING

- TRENCH WIDTH
- PROPOSED STORM SEWER
- EXISTING WATER MAIN
- NIPPLE
- THRUST BLOCK
- M.J.-D.I. 45° BENDS
- 18" MIN.
- 4" MIN. THICKNESS OF 2000 p.s.i. CONCRETE AROUND PIPE AND BELLS

2" BLOW OFF WITH METER BOX (SD-W15)

2" BLOW OFF

- METER BOX
- CURB
- 4"
- GROUND LINE
- GRADE 4 CRUSHED STONE
- 2" 90° ANGLE CURB STOP WITH LOCK-WING AND OVAL FLANGE
- 2" DBL. STRAP BRONZE TAPPING SADDLE W/ 2" COMPRESSION CORP. STOP
- 2" TYPE "K" COPPER PIPE MIN. SLOPE 1/8"/FOOT
- MAIN

Type "K" Copper Service Pipe.	Double Strap Bronze Service Saddle with C.C. Threads	East Jordan Iron Works Galvanized Meter Box With Iron Ring & Cover				
		Min. Dia.	Covers & Rigne	Min. Ht.	Min. Can Weight	Min. Total Weight
		Min. Dia.	Covers & Rigne Min.			
2 Inch	2 Inch	28 Inches	20⅝ Inches	18 Inches	20 lbs.	127 lbs.

2" BLOW OFF WITH METER BOX — STANDARD CONSTRUCTION DETAILS WATER — DATE: AUGUST, 2010 — SHEET: SD-W15

TYPICAL FIRE HYDRANT INSTALLATION (SD-W16)

NOTE:
1. DESIGN, SITE REQUIREMENTS, THE GENERAL OPERATION, PAINTING AND DELIVERY OF ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
2. FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 18" OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADIUS AT INTERSECTIONS AND DRIVEWAYS (SEE PLAN VIEW).

PLAN VIEW

- MIN. 2.0' B.C. / MAX . 4.0' B.C.
- CONC. PAD
- P.C.
- F.H.
- 2 – 2 1/2" NOZZLES
- 6" NOZZLE W/ PUMPER (40480) GAUGE THREADS
- CURB

- GROUND LINE
- 36" WIDE PAD CLASS "B" CONC.
- 2"MIN. 6"MAX.
- CONCRETE PAD TO CONTINUE TO CURB
- #3 BARS
- CLASS "B" CONCRETE THRUST BLOCK MUST NOT BLOCK WEEP HOLE.
- MIN. 7 CUBIC FEET OF WASHED GRAVEL FILL
- GEOTEXTILE MATERIAL
- PRECAST CONCRETE SLAB
- 2'-0"

NOTE: ALL ANCHOR FITTINGS TO BE CONCRETE THRUST BLOCKED. ALL DUCTILE OR CAST IRON FITTINGS AND OR PIPE TO BE POLYWRAPPED. FIRE HYDRANT BASE TO BE WRAPPED IN GEOTEXTILE MATERIAL.

TYPICAL FIRE HYDRANT INSTALLATION — STANDARD CONSTRUCTION DETAILS WATER — DATE: AUGUST, 2010 — SHEET: SD-W16

VALVE BOX WITH EXTENSION (SD-W10)

FOR BURY HEIGHT 5' OR LESS ~~(crossed out)~~

FOR BURY HEIGHT GREATER THAN 5' — FOR ALL VALVES - 6" C-900 PVC

- COVER
- DEBRIS CAP
- COLLAR
- CAST IRON EXTENSION
- PVC EXTENSION
- BASS & HAYS #348-1 OR APPROVED EQUAL
- VALVE BOX
- BASS & HAYES #2436-A OR APPROVED EQUAL

NOTE
1. ALL CAST IRON FITTINGS SHALL BE DOMESTIC. (MADE IN U.S.A.)
2. ~~VALVE BOXES SHALL BE PROVED FOR BURIED VALVES. THESE BOXES SHALL BE THREE (3) PIECE SCREW TYPE CAST IRON OF THE EXTENSION TYPE AND SHALL BE: BASS & HAYS THREE (3) PIECE ADJUSTABLE SCREW TYPE; CAST JORDAN IRON WORKS 8560 W/ 6660 LID, MUELLER NO. H-10360 OR APPROVED EQUAL. THE THREE (3) PIECES SHALL CONSIST OF THE TOP SECTION, BOTTOM SECTION AND COVER.~~

VALVE BOX WITH EXTENSION — STANDARD CONSTRUCTION DETAILS WATER — DATE: ~~AUGUST, 2010~~ JANUARY 2017 — SHEET: SD-W10

VALVE SETTING (SD-W09)

- COVER
- 4 – # 3 BARS
- FINISH GRADE
- DEBRIS CAP WITH LOCKING BRACKET AND BARREL LOCK W/ END CAP IS REQUIRED FOR ALL VALVES IN PAVEMENT ~~(crossed out)~~
- 6"
- CONCRETE PAD, 24" SQUARE, SHALL BE POURED AROUND ALL VALVE BOXES NOT PLACED WITHIN CONCRETE PAVEMENT. 3000 P.S.I. CONCRETE
- VALVE BOX ~~WITH NECESSARY EXTENSIONS~~ SEE SD-W10
- SEE NOTE # 2
- SELECT MATERIAL
- PLACE LAYER OF GEOTEXTILE MATERIAL OVER CRUSHED STONE
- CRUSHED STONE (GRADE 4)
- 3/4 O.D.
- 4"
- WATER MAIN
- 2'x2'x4" CLASS "B" CONCRETE PAD
- 8 MIL POLYWRAP

NOTE:
1. 4"-12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHERE THE OPERATING NUT IS LOCATED IN EXCESS OF 5 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 5 FEET OF VALVE BOX LID.
3. BLUE "V" (3") CUT INTO FACE OF NEAREST CURB AND POINTING TOWARD THE VALVE.
4. ALL IRON MATERIALS SHALL BE DOMESTIC. (MADE IN USA)
5. CRUSHED STONE SHALL BE 3/4", PASSING #4 SIEVE.

TYPICAL VALVE SETTING & BOX

VALVE SETTING ~~BOX~~ — STANDARD CONSTRUCTION DETAILS WATER — DATE: AUGUST, 2010 — REV DATE: 04/06/17 — SHEET: SD-W09

P.V.C. WATER MAIN EMBEDMENT (SD-W01)

- TRENCH WIDTH
- 16" + O.D. MIN.
- 24" + O.D. MAX.
- SELECT MATERIAL
- O.D.
- 12" MIN.
- PLACE LAYER OF GEOTEXTILE MATERIAL OVER CRUSHED STONE
- ¾ O.D.
- CRUSHED STONE (GRADE 4)
- 3" MINIMUM / 6" MINIMUM IN ROCK

CLASS "B+" EMBEDMENT

CRUSHED STONE SHALL BE 3/4", PASSING # 4 SIEVE

TYPICAL P.V.C. WATER MAIN EMBEDMENT

P.V.C. WATER MAIN EMBEDMENT — STANDARD CONSTRUCTION DETAILS WATER — DATE: AUGUST, 2010 — SHEET: SD-W01