

## MATERIAL LIST

1. PRECAST CONCRETE UNDERGROUND VAULT – "UTILITY VAULT COMPANY": 577-LA BASE SECTION: 577 WITH SUMP AND GRATE MIDDLE SECTION: 577 WITHOUT CHANNELS AND WITH KNOCK-OUTS FOR WATER PIPING ONLY. TOP SECTION: 577 WITH CAST IN PLACE HATCH RATED TO H20 TRAFFIC LOADING.  
  
 HATCH: HATCH SHALL BE 3'-6" x 3'-6" CLEAR OPENING, SINGLE LEAF, WITH H20 TRAFFIC RATING. OFFSET THE HATCH IN THE VAULT LID AS SHOWN TO PROVIDE ACCESS TO THE LADDER. THE HATCH SHALL BE LW PRODUCTS OR EQUAL WITH BILCO "LADDER-UP" SAFETY POST. THE HATCH SHALL DRAIN TO THE SUMP INSIDE THE VAULT.  
  
 LADDER: HOT DIPPED GALVANIZED BOLT-ON LADDER WITH #6 RUNGS ON 12" CENTERS AND MOUNTING BRACKETS AT TOP, MIDDLE AND BOTTOM. SECURE LADDER TO VAULT WALL WITH OFFSET SUFFICIENT TO PROJECT INTO HATCH.  
  
 PAINTING: THE INTERIOR OF THE CONCRETE VAULT SHALL BE PAINTED AT THE VAULT MANUFACTURER WITH ONE COAT OF STEEL COAT DAMP-TEX NO. 22 PRIMER AND TWO COATS OF STEEL COAT DAMP-TEX DX 110-WHITE. THE EXTERIOR BELOW GRADE SHALL BE PAINTED WITH TWO COATS OF KOPPERS BITUMASTIC BLACK SOLUTION.
2. 2-4" D.I. ADAPTER, FL. x P.E., 4'± LONG.
3. 2-4" RESILIENT SEAT GATE VALVE, NRS, FL., O-RING PACKING WITH HANDWHEEL.
4. 2-4"x3" REDUCER, FL., FOR 3" ASSEMBLY ONLY.
5. 3" OR 4" FLANGED COUPLING ADAPTER, ROMAC FCA 501, OR EQUAL.
6. 3" OR 4" D.I. ADAPTER, FL. x P.E., 9"± LONG (VERIFY).
7. DISTRICT TO PROVIDE CURRENT SPECIFIED METER AT DEVELOPER'S EXPENSE. SIZE OT TO BE DETERMINED DURING DESIGN PROCESS WITH DEVELOPER. READ REMOTE TO BE MOUNTED IN VAULT LID BY DEVELOPER.
8. 3" OR 4" STRAINER, FL., AS RECOMMENDED AND PROVIDED BY METER MANUFACTURER.
9. UNI-FLANGE ADAPTER.
10. 4-2" X 2" X 1/4" MIN. WALL THICKNESS SQUARE STEEL TUBING, 6' MIN. LENGTH. BOLT TO VAULT WALL IN FOUR PLACES WITH STAINLESS STEEL ANCHOR BOLTS.
11. SUMP PUMP OR GRAVITY DRAIN AS REQUIRED BY SITE CONDITIONS, TO BE DETERMINED BY THE DEVELOPER AND CONTRACTOR AND REVIEWED AND APPROVED BY THE DISTRICT. FOR SUMP PUMP: 16" DIAM. x 6" DEEP SUMP WITH HYDROMATIC OSP50 SUMP PUMP. PROVIDE ELECTRICAL POWER PER ALL APPLICABLE CODES. CONSTRUCT 1-1/4" DISCHARGE PIPING ENCASED IN G.I.P. TO NEAREST CATCH BASIN OR APPROVED LOCATION. FOR GRAVITY DRAIN: SUMP DRAIN, ZURN Z-551, THREADED, WITH ZURN Z-1099 BACKWATER VALVE, THREADED X NO-HUB, WITH C.I. PIPE TO 12" MIN. BEYOND VAULT WALL AND 4" PVC D3034 SDR35 TO DAYLIGHT OR C.B.
12. ADJUSTABLE PIPING SUPPORT, "STANDON", OR EQUAL, TWO PLACES.