

SAWS GENERAL WATER NOTES (01/20/2006)
 1. All materials and construction procedures within the scope of this project shall be approved by the San Antonio Water System (SAWS) and comply with the following as applicable:
 A. Current "San Antonio Water System Standard Specifications for Construction"
 B. Current "San Antonio Water System Utility Service Regulations"
 C. Current City of San Antonio Standard Specifications for Public Works Construction"
 D. Current TxDOT "Standard Specification for Construction of Highways, Streets and Drainage"
 E. Current City of San Antonio "Right - Of - Way Ordinance and Criteria Manual".

2. The Contractor shall not proceed with any pipe installation work until they obtain a copy of the approved S&P from Consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the Inspector and consultant for the work requirements.
 3. The locations and depths of existing utilities, including service laterals, and drainage structures shown on the plans are approximate only. The Contractor shall verify the exact location and depths of underground utilities at least 48 hours prior to construction whether shown on plans or not, and to protect the same during construction.

San Antonio Water System 233-2010
 COSA Drainage 207-2800
 City Sidewalk and Trenching Division 821-3240
 COSA Traffic Signal Operations 207-7785
 Texas State Wide One Call Locator 1-800-545-6005
 City Public Service South Western Bell
 Time Warner Cable
 Valero Energy Co.
 Bexar Metropolitan Water District 354-6536

4. No meter boxes to be set in driveways. Any meter boxes set in driveways will be relocated at contractor's and/or developer's expense.
 5. The Contractor shall be responsible for restoring to its original or better condition from damage done to existing fences, curbs, streets, driveways, landscaping and structures.
 6. The Contractor shall avoid cutting roots larger than one inch in diameter when excavating near existing trees. Excavation in vicinity of trees shall proceed with caution. The Contractor shall contact the City Arborist at 207-8053 and the SAWS construction inspector for guidance.

SUPPLEMENTARY:
 7. No extra-payment shall be allowed for work called for on the plans but not included on the bid schedule. This incidental work will be required and shall be included under the pay item to which it relates.
 8. The Developer dedicates the water mains upon completion by the Developer and acceptance by the San Antonio Water System. The San Antonio Water System will own and maintain said water mains which are located within this particular subdivision. (As applicable)
 9. Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation sites within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with a minimum, OSHA Standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA Standards governing the presence and activities of individuals working in and around trench excavation.

10. WORK CONDUCTED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE SAN ANTONIO WATER SYSTEM CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
 11. The contractor will keep the area on top of and around the water meter box free of all objects and debris.
 12. Water System to be completely restrained. Restrained length calculations are for 3/4\"/>

ADDITIONAL NOTES:
 1. ALL PIPE SHALL BE PVC DR14, CLASS 900 UNLESS OTHERWISE NOTED.
 2. THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THIS CONTRACT BEGINS. STREET HUBS SHALL BE SUPPLIED TO THE CONTRACTOR. THE CONTRACTOR SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING, THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 3. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
 4. THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR. SO THE METER BOXES CAN BE SET IN PHASE II, ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 5. STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND THE PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR, PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
 6. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE S.A.W.S. RELEASES THE MAIN FOR TIE-IN AND USE.
 7. UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).

NOTE:
 1. CONTOUR SHOWN ARE FOR GRAPHICAL USE ONLY.

Developer's Name: AR Development, Inc.
 Address: 18818 TUSCANY STONE, STE. 100
 City: SAN ANTONIO State: TEXAS ZIP: 78258
 Phone: 210-497-3385 FAX: 210-495-2587
 SAWS Block Maps: 098-602 Total EDUs: 68 Total Acreage: 17.86 AC.
 2.212 LF. 8\"/>

JOB NO. 6123-16
 DATE DECEMBER 2007
 DESIGNER SSC
 CHECKED LBP DRAWN MDP
 SHEET 8.0

REVISIONS:
 04/23/07 REVISED PER SAWS COMMENTS

STATE OF TEXAS
 ALFONSO R. CHUA, JR.
 84556
 LICENSED PROFESSIONAL ENGINEER
 12/13/07

PAPE-DAWSON ENGINEERS
 PHONE: 210-376-9000
 FAX: 210-376-9010
 SAN ANTONIO, TEXAS 78216
 655 EAST RAMBLEY

WESTWINDS EAST, UNIT-2
 (PLANNED UNIT DEVELOPMENT)

ASBULT - PLAN OF RECORD

PLAT NO. 060646
 JOB NO. 6123-16
 DATE DECEMBER 2007
 DESIGNER SSC
 CHECKED LBP DRAWN MDP
 SHEET 8.0

TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

*** JOINT RESTRAINT NOTE:**
 CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT ALL TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH NO JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINTS AND RETAINER GLANDS SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS. THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER JOINT RESTRAINING HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

FUTURE WESTWINDS EAST, UNIT-3 (P.U.D)
 SAWS JOB NO. 07-1072

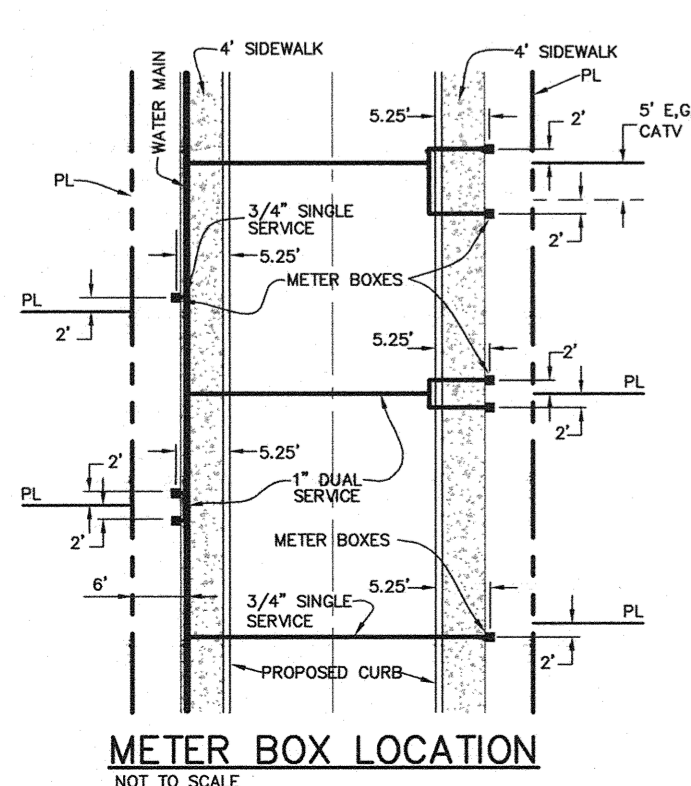
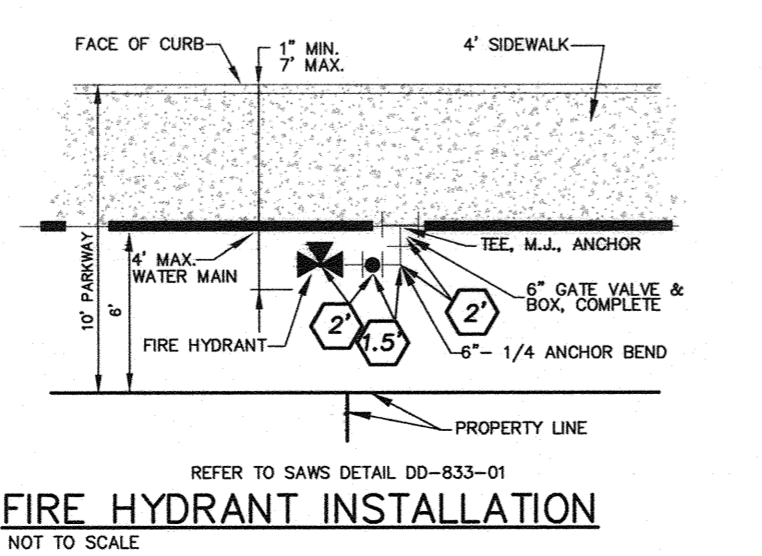
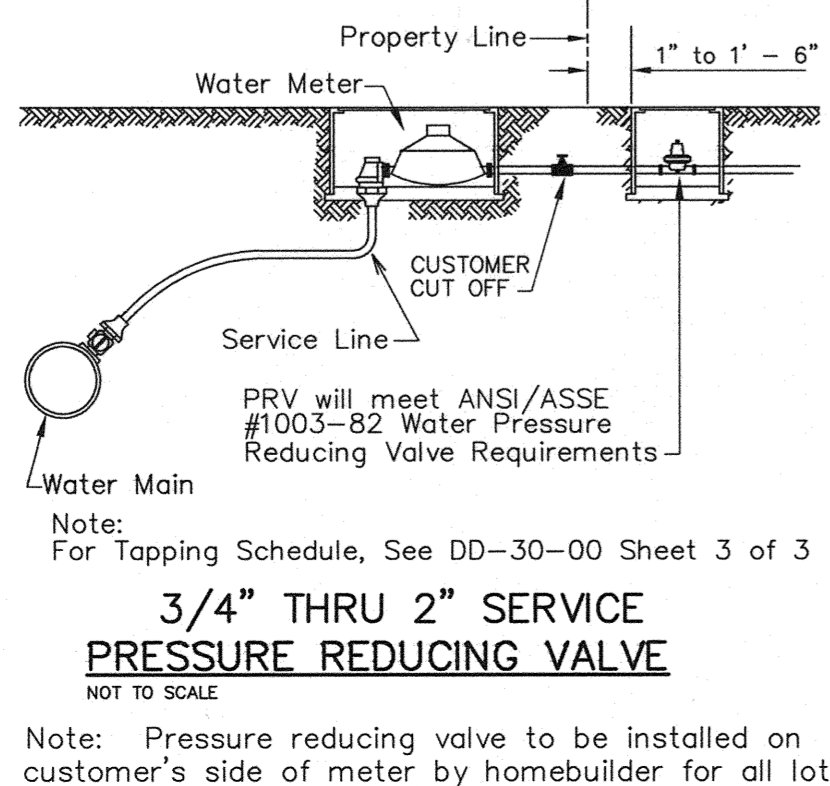
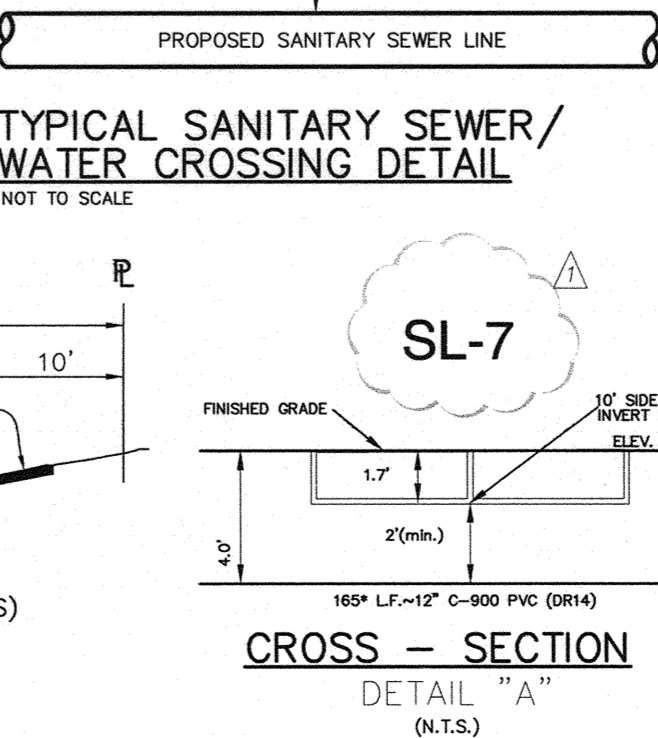
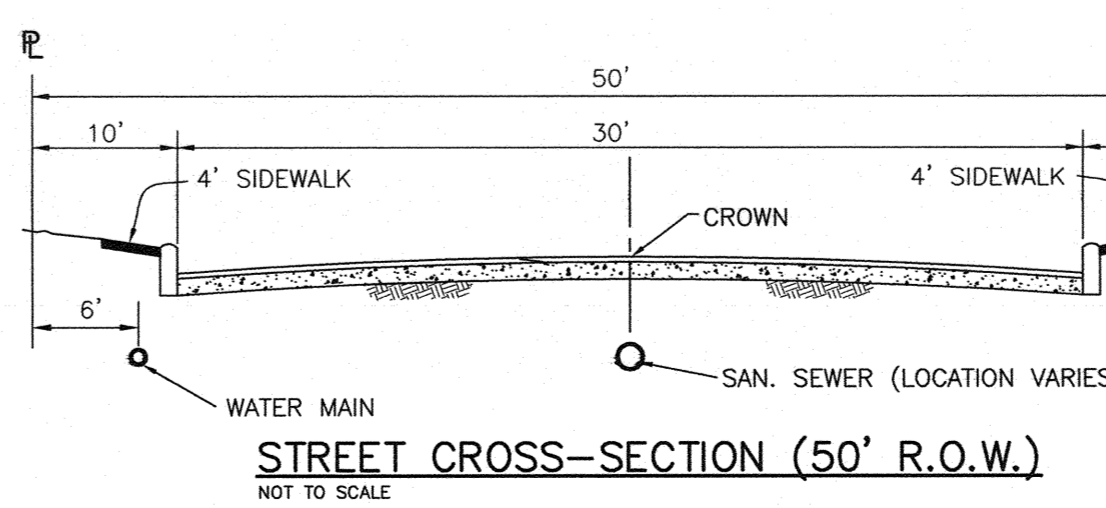
WESTWINDS EAST, UNIT-1 (P.U.D)
 SAWS JOB NO. 05-1231

"PLAN OF RECORD"
 I HEREBY CERTIFY THAT THIS "PLAN OF RECORD" IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND WAS PREPARED UNDER MY SUPERVISION.
 NOTE: INFORMATION FOR "PLAN OF RECORD" DRAWING WAS PROVIDED TO PAPE-DAWSON ENGINEERS BY THE CONTRACTOR.

8" PVC	8" DI	12" PVC	12" DI	48" DI FH
5'	2'	14'	20'	1.5'
129'		80'	80'	
4.5'		305'	2'	
191'		4'	2'	
105'		140'	1.5'	
187'			2'	
9'			2'	
61'			1.5'	
642'			2'	
3.5'				
59'				
70'				
320'				
348'				
76'				
TOTAL:	2,210'	2'	543'	82'

* PAID AS PART OF FIRE HYDRANT ASSEMBLY

CONTRACTOR: SACC, INC.
 INSPECTOR: FRED SCHWARTZ
 COMPLETED: SEPTEMBER 7, 2007



THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.