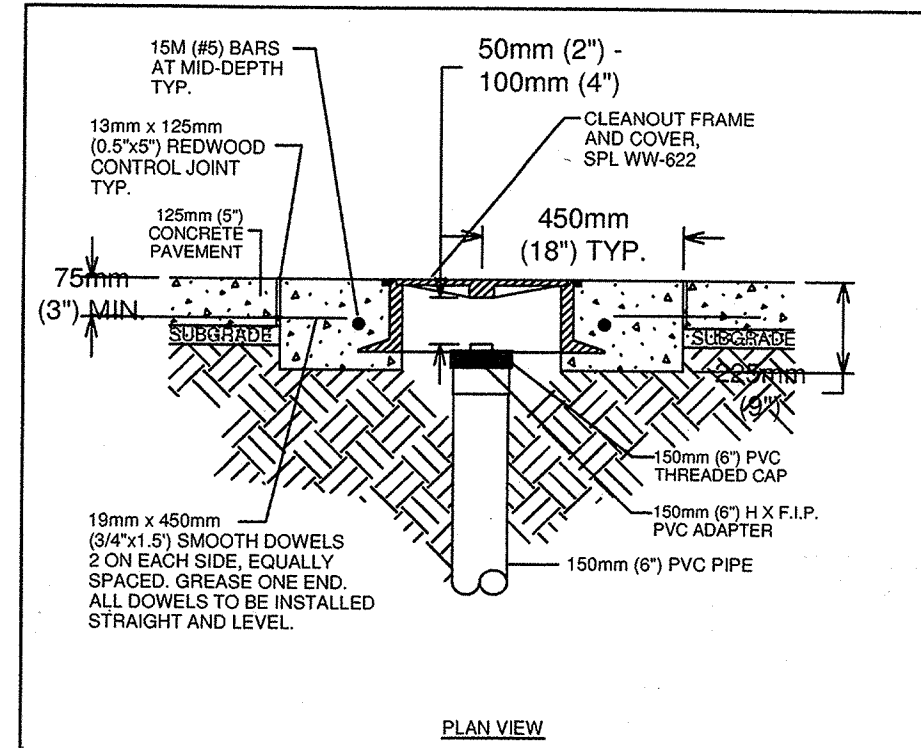
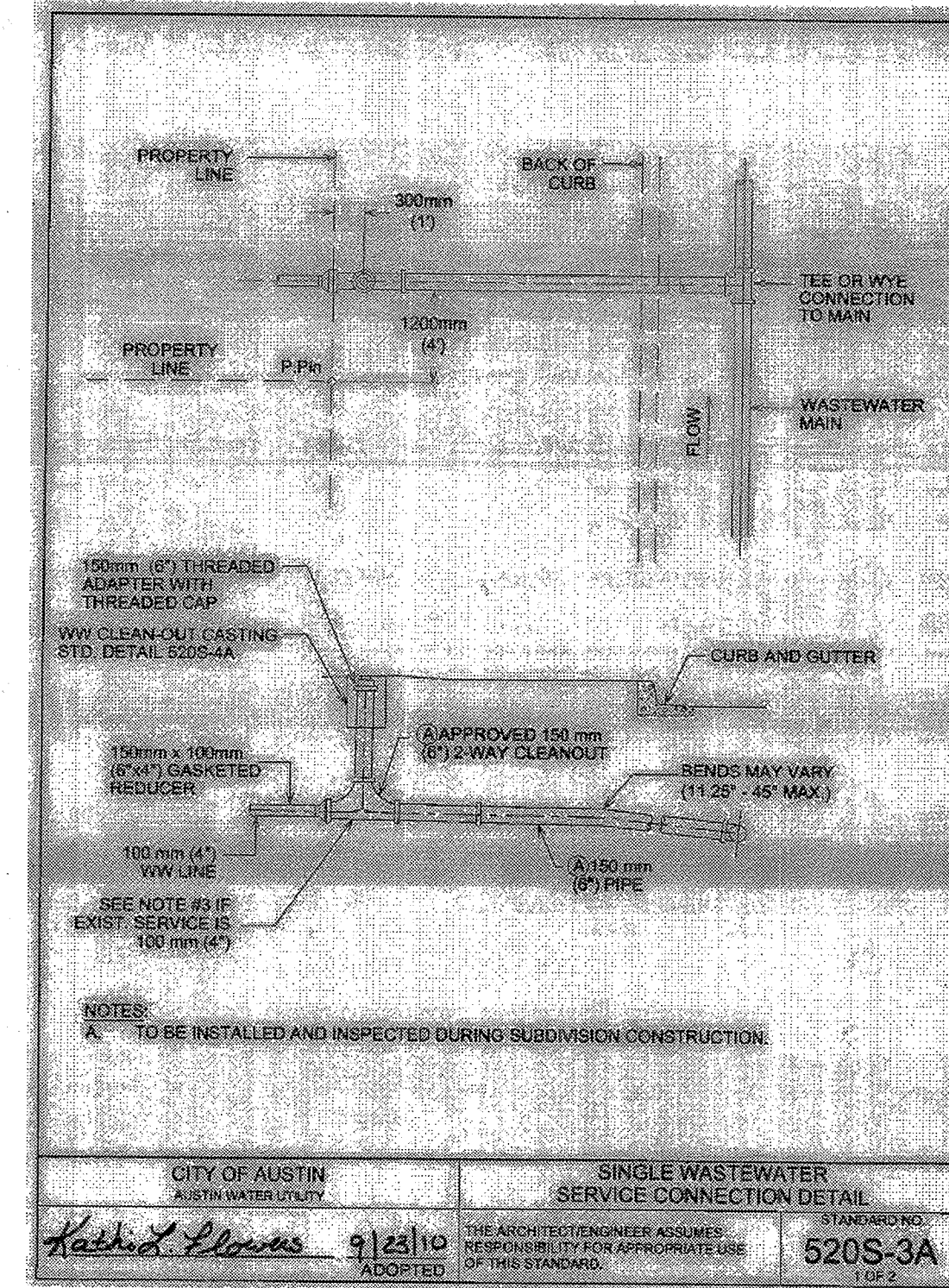


1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIAL AND METHODS USED TO DO THIS WORK.
2. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY WATERSHED PROTECTION AND DEVELOPMENT REVIEW INSPECTION OR WATER AND WASTEWATER UTILITY TAPS INSPECTION AT THE NUMBER INDICATED ON THE PLANS BY THE AWU PLAN REVIEWER.
4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
5. NO OTHER UTILITY SERVICE/APURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
7. ALL MATERIALS TESTS, INCLUDING SOIL DENSITY TESTS AND DETAILED SOIL ANALYSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.
8. PRESSURE TAPS SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(24). THE CONTRACTOR SHALL PERFORM EXCAVATION ETC., AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. WHEN CONTRACTORS MAKE THE TAP A CITY INSPECTOR MUST BE PRESENT AND 2 WORKING DAYS (MIN) NOTICE MUST BE GIVEN. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED, UNLESS, IT HAS BEEN DEMONSTRATED THAT A MORE ACCEPTABLE CONNECTION WOULD INVOLVE CONSIDERABLE HARDSHIP TO THE UTILITY SYSTEM. ALL TAPS SHALL BE MADE BY USE OF AN APPROVED FULL CIRCLE-GASKETED CAST IRON OR DUCTILE IRON TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED UNDER ALL TAP SLEEVES PRIOR TO MAKING THE PRESSURE TAP AND THE USE OF PRECAST BLOCKS MAY BE USED TO HOLD THE TAP IN ITS CORRECT POSITION PRIOR TO BLOCKING. THE BLOCKING BEHIND AND UNDER THE TAP SHALL HAVE A MINIMUM OF 24 HOURS CURING TIME BEFORE THE VALVE CAN BE RE-OPENED FOR SERVICE FROM THAT TAP.
9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3 (22).
10. ALL BRANCH CONNECTIONS SHALL HAVE THE VALVE BOLTED TO THE MAIN BY METHODS OF FLANGE OR SWIVEL TEES. FOSTER ADAPTORS MAY BE USED IN LIEU OF FLANGE OR SWIVEL TEES WHEN CALLED OUT ON THE PLANS BY THE DESIGN ENGINEER.
11. A) FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 511S.4 B) FIRE HYDRANTS SHALL BE PAINTED FLYNT ALUMINUM OR EQUAL.
12. WATER LINE TESTING AND TIGHTENING SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.
13. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
14. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PE IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
15. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY THE AUSTIN WATER UTILITY DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.
16. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER UTILITY AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
17. ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNA FOR THE CITY OF AUSTIN.
18. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING ONSITE UTILITY WORK.
19. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.
20. REVIEW BY THE AUSTIN WATER UTILITY APPLIES ONLY TO FACILITIES WITHIN PUBLIC STREETS OR PUBLIC UTILITY EASEMENTS. ALL OTHER WATER AND WASTEWATER FACILITIES INSIDE PRIVATE PROPERTY ARE UNDER THE JURISDICTION OF BUILDING INSPECTION.
21. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, AND CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS, OF TCEQ RULES.
22. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
23. SHOP DRAWINGS SHALL BE SUBMITTED FOR AWU APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTIONS TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN THE CONTRACT drawings.
24. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.

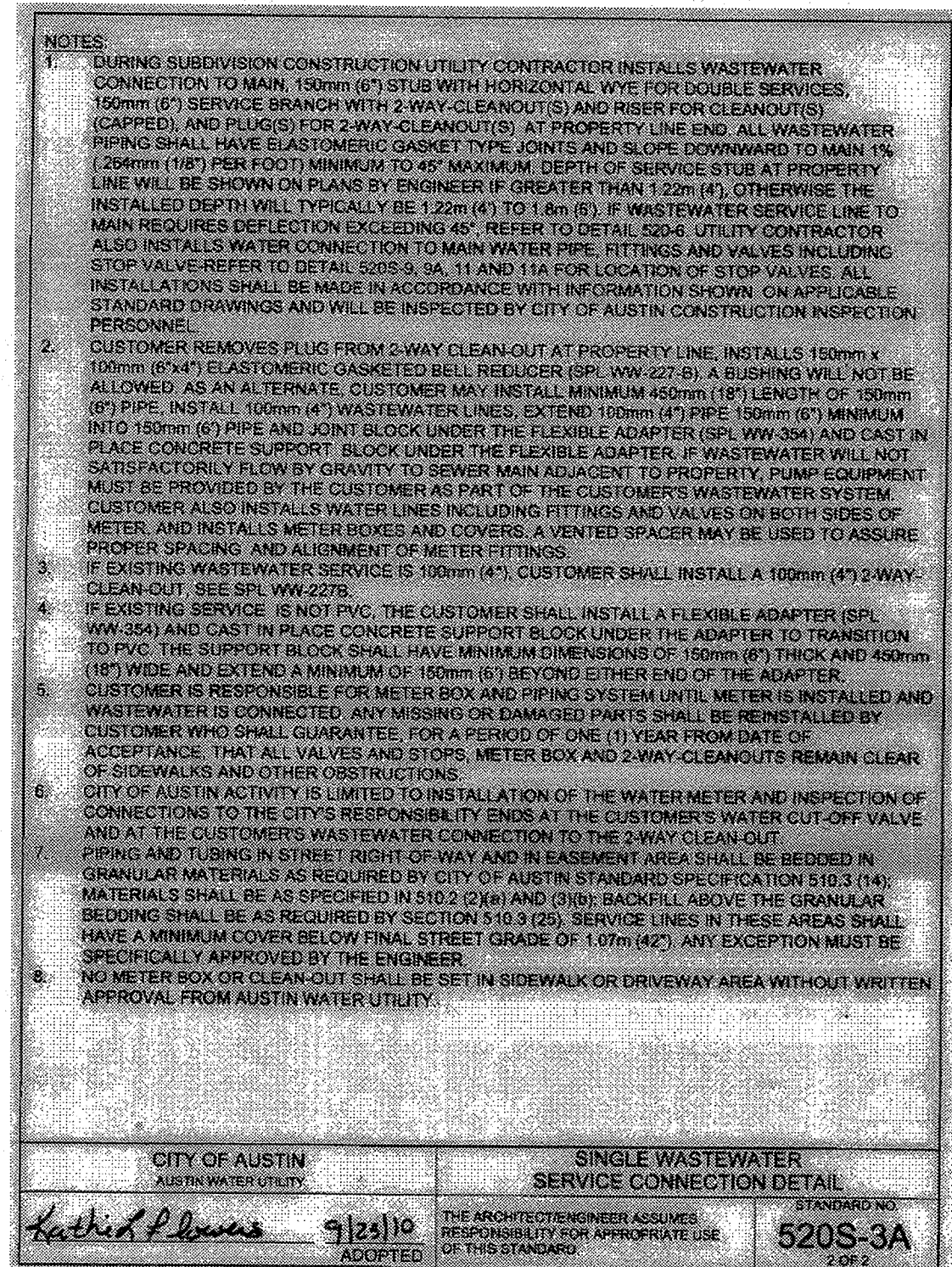


- NOTES:
1. SERVICES SHALL BE DESIGNED TO AVOID CLEAN-OUT LOCATION WITHIN DRIVEWAYS.
  2. THIS STANDARD DETAIL IS ONLY FOR EXISTING CLEANOUTS THAT ARE LOCATED WITHIN EXISTING DRIVEWAYS.
  3. SUB-GRADE SHALL BE COMPACTED AS PER STD. SPEC. 201S, SUB-GRADE PREPARATION.
  4. REINFORCING STEEL SHALL MEET ITEM 405S, REINFORCING STEEL.
  5. PC CONCRETE SHALL MEET ITEM 405S CLASS "A".
  6. TRAFFIC BEARING FRAME AND COVER ONLY, HEAVY DUTY.
  7. PLACE CASTING IN CONCRETE, FINISH CONCRETE SMOOTH.
  8. LOCATE CASTING SO WATER WILL NOT ACCUMULATE AT CASTING.
  9. PVC PIPE SHALL BE A MINIMUM WALL THICKNESS AS REQUIRED BY SDR-35. CLEANOUTS INSTALLED ON SDR-26 SERVICES SHALL BE A MINIMUM WALL THICKNESS AS REQUIRED BY SDR-26.

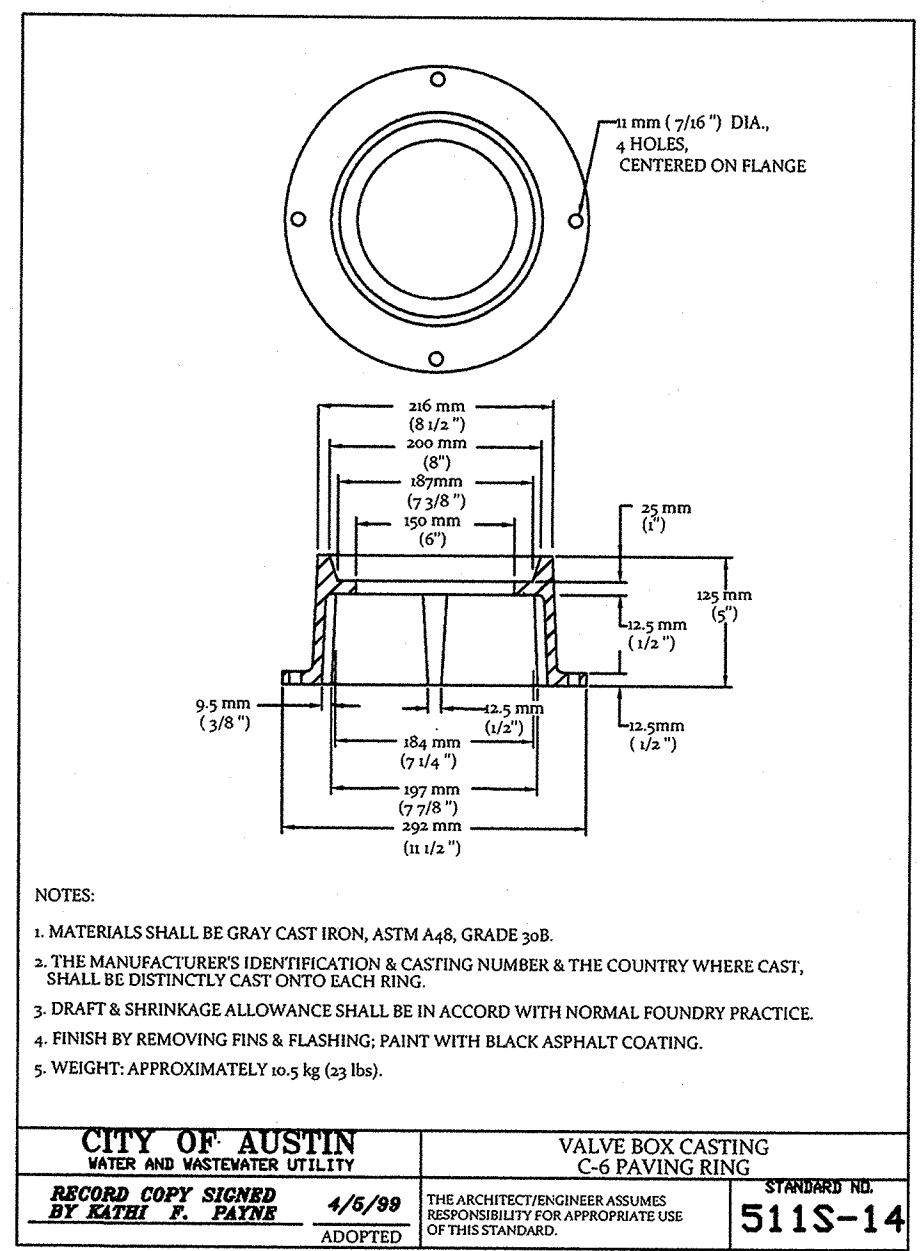
CITY OF AUSTIN AUSTIN WATER UTILITY	WASTEWATER CLEAN-OUT ADJUSTMENT TO GRADE IN DRIVEWAYS
RECORD COPY SIGNED BY KATHI F. FLOWERS	STANDARD NO. 520S-4
4/8/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



CITY OF AUSTIN AUSTIN WATER UTILITY	SINGLE WASTEWATER SERVICE CONNECTION DETAIL
RECORD COPY SIGNED BY KATHI F. FLOWERS	STANDARD NO. 520S-3A
9/23/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

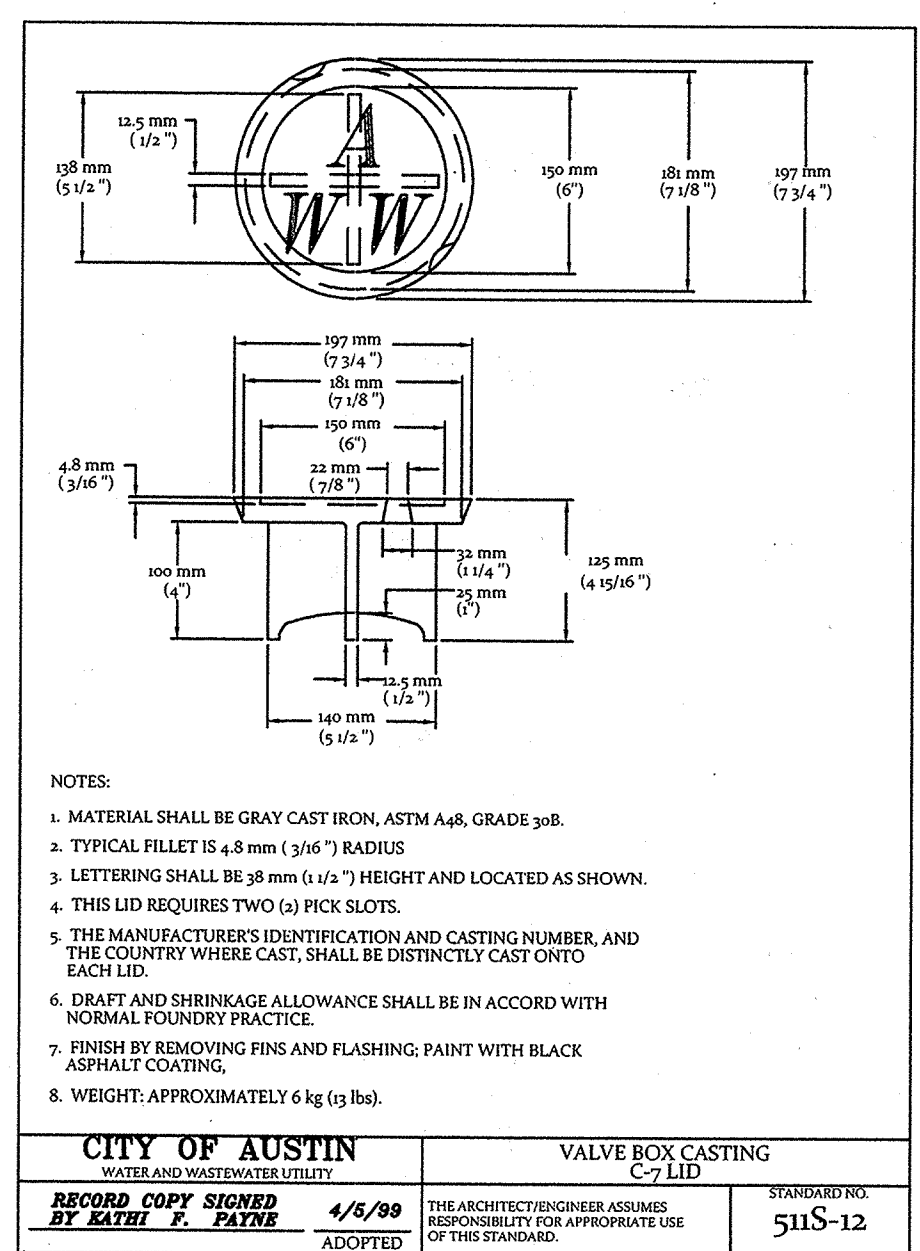


CITY OF AUSTIN AUSTIN WATER UTILITY	SINGLE WASTEWATER SERVICE CONNECTION DETAIL
RECORD COPY SIGNED BY KATHI F. FLOWERS	STANDARD NO. 520S-3A
9/23/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



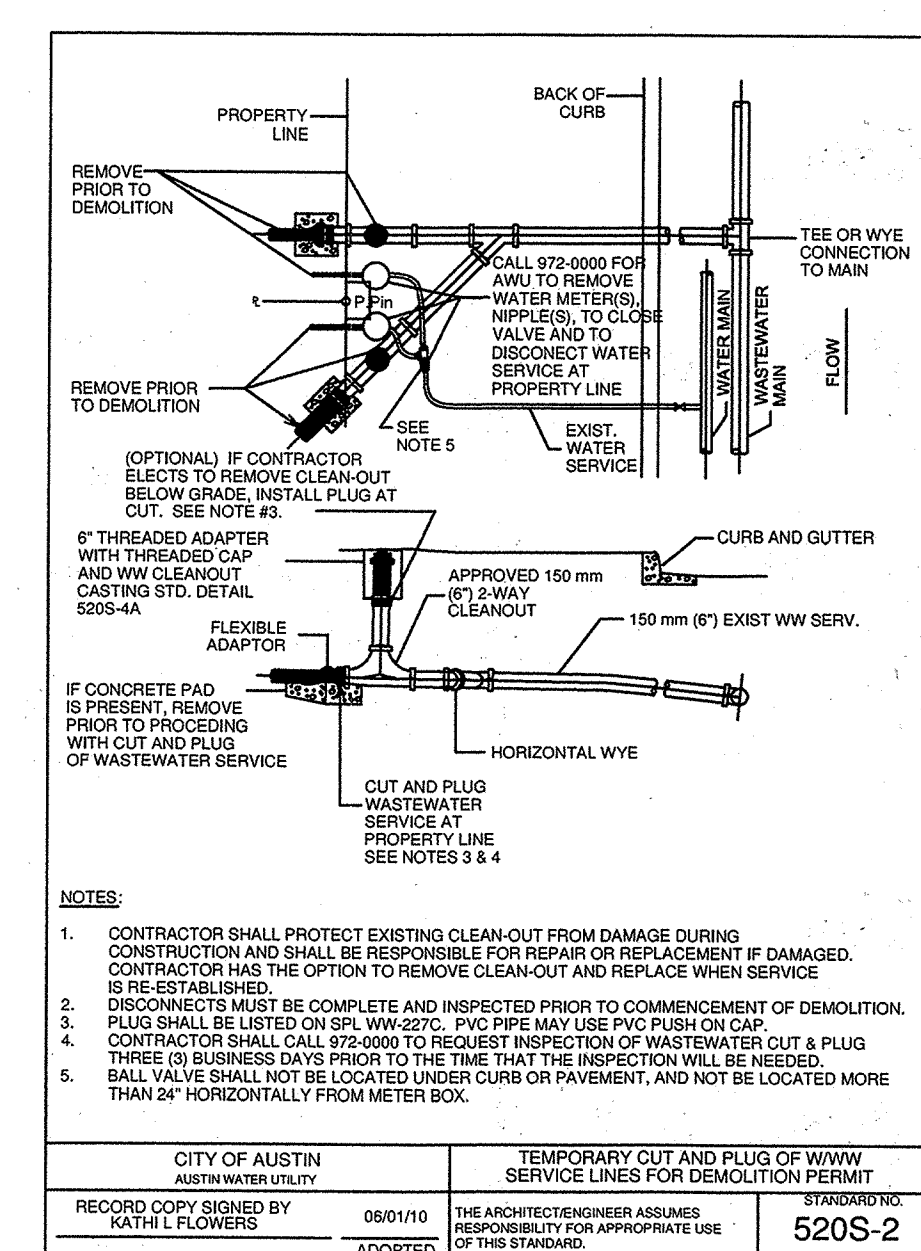
- NOTES:
1. MATERIALS SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
  2. THE MANUFACTURER'S IDENTIFICATION AND CASTING NUMBER & THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH RING.
  3. DRAFT & SHRINKAGE ALLOWANCE SHALL BE IN ACCORD WITH NORMAL FOUNDRY PRACTICE.
  4. FINISH BY REMOVING FINIS & FLASHING; PAINT WITH BLACK ASPHALT COATING.
  5. WEIGHT: APPROXIMATELY 10.5 kg (23 lbs).

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	VALVE BOX CASTING 6\" VALVE RING
RECORD COPY SIGNED BY KATHI F. FLOWERS	STANDARD NO. 511S-14
4/8/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



- NOTES:
1. MATERIAL SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
  2. TYPICAL FILLET IS 4.8 mm (3/16\") RADIUS.
  3. LETTERING SHALL BE 38 mm (1 1/2\") HEIGHT AND LOCATED AS SHOWN.
  4. THIS LID REQUIRES TWO (2) PICK SLOTS.
  5. THE MANUFACTURER'S IDENTIFICATION AND CASTING NUMBER, AND THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH LID.
  6. DRAFT AND SHRINKAGE ALLOWANCE SHALL BE IN ACCORD WITH NORMAL FOUNDRY PRACTICE.
  7. FINISH BY REMOVING FINIS & FLASHING; PAINT WITH BLACK ASPHALT COATING.
  8. WEIGHT: APPROXIMATELY 10.5 kg (23 lbs).

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	VALVE BOX CASTING 6\" LID
RECORD COPY SIGNED BY KATHI F. FLOWERS	STANDARD NO. 511S-12
4/8/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



- NOTES:
1. CONTRACTOR SHALL PROTECT EXISTING CLEAN-OUT FROM DAMAGE DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT IF DAMAGED. CONTRACTOR HAS THE OPTION TO REMOVE CLEAN-OUT AND REPLACE WHEN SERVICE IS RE-ESTABLISHED.
  2. DISCONNECTS MUST BE COMPLETE AND INSPECTED PRIOR TO COMMENCEMENT OF DEMOLITION.
  3. PLUG SHALL BE LISTED ON SPL WW-202C. PVC PIPE MAY USE PVC PUSH-ON CAP.
  4. CONTRACTOR SHALL CALL 972-0000 TO REQUEST INSPECTION OF WASTEWATER CUT & PLUG THREE (3) BUSINESS DAYS PRIOR TO THE TIME THAT THE INSPECTION WILL BE NEEDED.
  5. BALL VALVE SHALL NOT BE LOCATED UNDER CURB OR PAVEMENT, AND NOT BE LOCATED MORE THAN 2\" HORIZONTALLY FROM METER BOX.

CITY OF AUSTIN AUSTIN WATER UTILITY	TEMPORARY CUT AND PLUG OF WWWW SERVICE LINES FOR DEMOLITION PERMIT
RECORD COPY SIGNED BY KATHI F. FLOWERS	STANDARD NO. 520S-2
08/01/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

REVIEWED  
OCT 08 2010  
Austin Water Utility  
Kathy F. Flowers

- GENERAL NOTES:
1. CONTRACTOR SHALL COORDINATE INSPECTION OF UTILITY LINES WITH APPROPRIATE AUTHORITIES PRIOR TO BACKFILLING TRENCHES.
  2. PRIVATE SANITARY SEWER PIPE SHALL BE PVC, ASTM D-2241 SDR26 WITH INTEGRAL BELL, BELL & SPIGOT TYPE JOINTS WITH RUBBER OR DUCTILE IRON (DI) PIPE CLASS 350 WITH PUSH-ON OR MECHANICAL JOINTS UNLESS OTHERWISE NOTED.
  3. CONTRACTOR SHALL COMPLY WITH LATEST OSHA STANDARDS OR DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND MAINTENANCE OF ALL SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION.
  4. THE TOP ELEVATIONS OF MANHOLES SHALL MATCH FINISHED GRADE.
  5. THRUST BLOCKING OR RESTRAINTS SHALL BE USED AT ALL WATERLINE TEES, BENDS, DEAD ENDS, ETC. IN ACCORDANCE WITH CITY REQUIREMENTS.
  6. CONTRACTOR SHALL NOTIFY CITY INSPECTORS AT LEAST 48 HOURS PRIOR TO COMMENCING UTILITY CONSTRUCTION IN PUBLIC ROW.
  7. REFER TO CITY OF AUSTIN (COA) STANDARD SPECIFICATIONS AND ALL APPLICABLE ITEMS INCLUDING ITEM #510 FOR GUIDANCE TO THE FURNISHING, INSTALLATION AND MATERIALS FOR SERVICE CONNECTIONS AND ALL WORK ASSOCIATED WITH THE (COA) UTILITY CRITERIA MANUAL, SECTION 5, "WORKING IN PUBLIC RIGHTS-OF-WAY".
  8. SERVICE CONNECTION FITTINGS USED IN CUSTOMER SERVICE CONNECTIONS, TAPPING MAINS, METER CONNECTION, ETC. MUST BE PER THE (COA) WATER AND WASTEWATER STANDARD PRODUCTS LIST. (SPLWW-68) OR AS IDENTIFIED IN (COA) DETAILS (620 SERIES).
  9. CONTRACTOR SHALL USE TRAFFIC BEARING LIDS FOR ALL CLEANOUTS LOCATED WITHIN PAVED AREAS.

u-te CONSULTANTS, INC.  
307 East 2nd Street  
Austin, Texas 78701  
TBPE Registered Firm No. F-5653

SEAL:  
10-7-13  
JOAN DIANE TERNUS  
REGISTERED PROFESSIONAL ENGINEER  
No. 92777  
STATE OF TEXAS

Date: 31-MAY-2013  
Drawn: AP  
Checked: JT

REVISIONS

NO.	DATE	DESCRIPTION

1300 LAMAR PLAZA I  
1234 SOUTH LAMAR BOULEVARD  
AUSTIN, TEXAS

SITE DEVELOPMENT

UTILITY DETAILS

SHEET: 9 OF 15

SP-2012-0180C

SITE PLAN APPROVAL SHEET 9 OF 15  
FILE NUMBER: SP-2012-0180C APPLICATION DATE: 03-MAY-2013  
APPROVED BY COMMISSION ON: N/A UNDER SECTION: 112  
CHAPTER: 253 OF THE CITY OF AUSTIN CODE  
EXPIRATION DATE (25-5-81 LDC): 11-22-16 CASE MANAGER: NIKKI HOELTER  
PROJECT EXPIRATION DATE (ORD 4870905-A): N/A DWPZ: DOZ X

Director, Planning and Development Review Department  
RELEASED FOR GENERAL COMPLIANCE: 11-22-13 ZONING: CS-V

Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if building permit is not required), must also be approved prior to the Expiration Date.