



ADDENDUM NUMBER ONE
to the
PROJECT SPECIFICATIONS and CONTRACT DOCUMENTS
for the
Smoke Tree Lane Water and Pavement Improvements Project

DATE OF ADDENDUM: April 4, 2016

TO ALL BIDDERS BIDDING ON THE ABOVE PROJECT:

The following addendum shall be made part of the Contract Documents. All other provisions of the Contract Documents remain unchanged. The Bidder shall acknowledge receipt of this Addendum on page 17 of the Proposal and by signing below and returning this form with the bid package. The contents of this Addendum shall be given full consideration in the preparation of the Bid.

Changes to Project Specifications and Contract Documents:

Change: MAG Section 109.7 is replaced in its entirety by City of Prescott GENERAL CONDITIONS, PAYMENT TO CONTRACTORS section. Said section is further supplemented with the following: No payment shall be made for stored material or expected work. Payment shall only be made for work actually completed.

Change: TS 106.2 SAMPLES AND TESTS OF MATERIALS (ADD THE FOLLOWING): Contractor shall submit in writing all materials to be used in the project in accordance with ADOT Specification Section 106 and Subsection 730-4.

Clarification: Two (2) proposed staging areas are applicable to this project and are required to be submitted with the Bid Documents per the requirements set forth on Page 5 of the Specifications. Property use letters will not be required with the bid package but must be submitted prior to, or at the Pre-construction Conference.

Clarification/Change: Section 345 of the Special Provisions is supplemented as follows:

The Contractor shall provide and install all new water valve risers, caps, and debris caps. The Contractor shall provide and install all new sewer rings, frames, and manhole covers. New sewer manhole covers shall have the City logo of Thumb Butte. Old rings and covers shall be salvaged to the City Sewer Operations Facility.

During the raising of utility covers to finish grade, demolished material and left over concrete shall not be placed directly onto new pavement. Such material shall be stockpiled on tarps as a minimum and properly disposed of to avoid staining the new pavement surface.

Changes to Project Plans:

Change: The General Notes on Plan Sheet G1.1 shall be replaced by COP Standard Detail 101P, attached hereto.

Change: The Water Plan General Notes on Plan Sheet TD1.2 shall be replaced by COP Standard Detail 103P attached hereto.

Change: The Sewer Plan General Notes on Plan Sheet TD1.4 shall be replaced by COP Standard Detail 104P attached hereto.

Change: Air Release Valves:

COP Standard Detail 3-17P on the Plans is replaced by COP Standard Detail 317P, attached hereto.

COP Standard Detail 3-16P on the Plans is replaced by COP Standard Detail 316P, attached hereto.

Clarification: Air Release Valves on the 18" water main shall be 2". Air Release Valves on the 8" water main shall be 1".

Change: COP Standard Detail 3-19P on the Plans is replaced by COP Standard Detail 319P-1, attached hereto.

Clarification: COP Standard Detail 391P is attached hereto as referred to on COP Standard Detail 301P.

Clarification: All Butterfly Valves shall have a pressure rating of 250 psi with 125 lb flange. The contractor shall sequence water line testing to insure that the 200 psi test pressure plus hydrostatic pressure does not exceed the rated valve pressure.

Clarification: As stated on the Plans, all water mains shall be restrained. Restraints shall be per the recommendation of the approved pipe line manufacturer.

Clarification: Per COP Standard Detail 340P, Note 11, all pipe, valves, fittings, and appurtenances shall be manufactured in the U.S.A.

Clarification: The City has reviewed valve placements on the Plans and all valves are shown on the Plans and are quantified in the Bid Schedule. The Contractor will not be required to add valves to vertical realignments per COP Standard Detail 3-11P. Any valves that may be added during construction will be paid for by extending the applicable bid item. Valves called for on Tapping Sleeves are included with the unit bid price for Tapping Sleeve, Valve, Box, and Cover. Valves called for on fire hydrant assemblies are included with the unit bid price for Fire Hydrant Assembly.

Change: At Leah Lane and at Lakewood Lane the Plans indicate a vertical realignment of the existing water main to accommodate construction of the new water main. There is no bid item for these vertical realignments. The following are added to the Bid Schedule:

Pay Item: 610.5.18 Leah Lane - Temporary Vertical Realignment on Existing Water Main

Pay Item: 610.5.19 Lakewood Lane - Temporary Vertical Realignment on Existing Water Main

Change: Pay Item 610.5.16 is changed to read:

Pay Item: 610.5.16 Sequoia Drive - Temporary Vertical Realignment on Existing Water Main

Clarification: City records indicate that the existing water main from Willow Creek Road to Golden Hawk Drive is ductile iron pipe; from Golden Hawk Drive to the east end of the project is PVC pipe. The only anticipated asbestos cement pipe is at the connection at Meadow Circle. This is based on best available records. It remains the Contractor's responsibility to pothole and locate all existing utilities prior to the start of construction.

Clarification: Where vertical realignments on the existing water main are called for on the Plans the Contractor shall restrain the pipe on each side of the realignment per COP Standard Detail 380A-2 Reverse Thrust Block (Modified).

Clarification: With the exception of the special provision regarding trench restoration in Willow Creek Road, Temporary Pavement Replacement shall be per MAG Section 336.2.3.

Requests for Information:

Clarification: The question has been asked:

“Can you indicate locations where the existing water main is to be removed?”

KWE Response: Generally, where existing water main piping (that will not remain in service at the completion of the project) is encountered during the course of construction, it shall be removed to a distance of 4' either direction of the encountered location.

Additionally, in locations where there is a new lateral connection from the new 18" main to a smaller diameter side street main, the existing lateral main connection shall be removed between the existing main in Smoke Tree to the new point of connection.

Clarification: In locations where a valve and a bend are called out with a single station, the locations of the fittings can be adjusted along the general alignment as needed to provide spacing for connections as needed.

Clarification: There are three locations where extra protection at existing culverts is called for on the Plans and per Bid Item 610.5D. Those locations are:

The three locations for extra protection at existing culverts Bid Item 610.5D are:

1. ±10+77 where the new 18" water crosses under an existing culvert with a vertical realignment (Bid Item 610.5.1 SP)
2. ±42+20 where the new 18" water crosses over an existing culvert with less than 2' of separation (no vertical realignment)
3. ±10+77 where the new 18" water crosses under an existing culvert with a vertical realignment (Bid Item 610.5.3 SP)

The intent of the bid item was to alert the Contractor that additional provisions may be required by the City to provide protection for the new 18" main and existing culverts at these locations because it is anticipated that the clearance requirements per COP SD 3-20P will not be met.

KWE would suggest that extra protection at existing culverts be provided in the form of the water main being constructed with DIP restrained joints, (which is a requirement for the whole system) and that no water main joints be allowed within 6' horizontally of the crossing (per MAG SD 404-2) and slurry backfill over the existing culverts and that the existing culverts remain intact, in-place with no encasement or reconstruction requirements.

Clarification: In regard to the locations where extra protection is called for on the plans the City does not allow concrete encasement. In cases where water and sewer separation does not meet the requirements per MAG SD 404, extra protection shall be required on the water and existing sewer consisting of

restrained joint DIP pipe with joint spacing per MAG SD 404-2. This will include reconstructing the existing sewer main with restrained joint DIP.

- END -

City of Prescott, Public Works Department

Henry Hash 4-4-16
Henry Hash, Public Works Director

Acknowledgement: (must be signed and turned in with the bid documents)

Company Name

Signature of Company Official

Date

1. ALL CONSTRUCTION SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS. LATEST REVISIONS, UNLESS SPECIFICALLY APPROVED BY THE CITY AND MODIFIED ON THE PLANS, IN CONJUNCTION WITH THE LATEST REVISIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS (MAG STANDARDS), UNLESS SPECIFICALLY MODIFIED ON THE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF MAG AND CITY OF PRESCOTT STANDARDS AND SPECIFICATIONS AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
3. ALL PLANS SIGNED BY THE CITY ENGINEER ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED. RESUBMITTAL AND REVIEW SHALL BE REQUIRED, AFTER ONE YEAR.
4. ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE, ARE NOT VERIFIED BY THE PUBLIC WORKS DIRECTOR, AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED AND INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
5. CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT PERMID(S) WILL BE REQUIRED FOR ALL OFF-SITE CONSTRUCTION AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY.
6. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCIES.
7. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.
8. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE PUBLIC WORKS DIRECTOR AND/OR ALL WORK MATERIALS NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATION OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. THE ENGINEER AND THE CITY OF PRESCOTT WILL NOT GUARANTEE ANY LOCATIONS OR ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING A COMPLETE AND ACCURATE ON-SITE DETERMINATION OF THE LOCATIONS, MATERIAL, AND SIZE OF ALL UTILITIES, STRUCTURES, AND FIELD CONDITIONS WHICH MAY AFFECT THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES AND UTILITIES ENCOUNTERED DURING CONSTRUCTION AND SHALL FIELD EXPOSE EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING IN THEIR VICINITY.
10. THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE (1-800-STAKEIT) A MINIMUM OF TWO WORKING DAYS (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR SUPPORT OF ALL UTILITIES, POWER POLES, ETC., THAT MAY BE NECESSARY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL, TRAFFIC CONTROL PLANS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE AND SUBMIT FOR APPROVAL THE EXACT SIGNING/TRAFFIC CONTROL DEVICES NECESSARY AND ALL TRAFFIC CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS THEREOF. NO STREET IS TO BE CLOSED, RESTRICTED, OR CONSTRUCTED UPON UNTIL A TRAFFIC CONTROL PLAN IS PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE PUBLIC WORKS DIRECTOR ONE WEEK IN ADVANCE FOR REVIEW AND APPROVAL.
13. APPROPRIATE EMERGENCY AGENCIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO ANY CLOSING OF STREETS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SURVEYING AND LAYOUT WITH CONTROL PROVIDED BY THE DESIGN ENGINEER OR HIS DESIGNEE.
15. THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL MEASURES SUFFICIENT TO PRODUCE MATERIALS AND WORKMANSHIP OF ACCEPTABLE QUALITY. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN. THE CONTRACTOR AT HIS OWN EXPENSE SHALL PROVIDE AN INDEPENDENT GEOTECHNICAL FIRM TO PERFORM QUALITY CONTROL TESTING SUCH AS SOILS AND CONCRETE TESTING, AND FULL TIME ASPHALTIC CONCRETE LAYDOWN COMPACTION TESTING AND ADEQUATE PLANT CONTROL FOR EACH PAVING DAY. THE CITY, BY SEPARATE CONTRACT, WILL BE RESPONSIBLE FOR QUALITY ASSURANCE TESTING AS IT MAY DEEM NECESSARY.
16. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS OF TESTING AND INSPECTION, INCLUDING THE PRESENCE OF CITY INSPECTORS, REQUIRED AT NIGHT OR ON WEEKENDS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RE-WORK AND/OR REMOVAL AND REPLACEMENT OF ALL MATERIALS REPRESENTED BY FAILING TESTS OR SUBSTANDARD WORKMANSHIP.
18. THE CONTRACTOR SHALL IMPLEMENT BEST-HOUSE-KEEPING MEASURES, AND EROSION AND SEDIMENT CONTROL MEASURES, TO PREVENT THE TRANSPORT OF CONSTRUCTION MATERIALS INTO DRAINAGE INLETS, STORM DRAIN MANHOLES, UTILITY STRUCTURES, OR ONTO ADJACENT STREETS AND PROPERTIES.
19. APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL THE WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
20. THE CITY OF PRESCOTT MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSTABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH AND SAFETY.
21. ALL OBSTRUCTIONS IN THE RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
22. REMOVAL OF STRUCTURES AND OBSTRUCTIONS AS NECESSARY TO COMPLETE THE WORK, OTHER THAN SPECIFICALLY SCHEDULED IN THE BID, IS INCIDENTAL TO THE CONTRACT. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR UNSCHEDULED REMOVAL ITEMS WILL BE MADE.
23. CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE WORK UNLESS SPECIFICALLY IDENTIFIED IN THE BID SCHEDULE. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR CLEARING AND GRUBBING, AND TREE REMOVAL, WILL BE MADE. THE SITE OF ALL EXCAVATION, EMBANKMENTS, AND FILLS SHALL FIRST BE CLEARED OF STUMPS, TRASH, WEEDS, RUBBISH, TOPSOIL, AND LOOSE BOULDERS WHICH SHALL BE REMOVED AND DISPOSED OF. PRIOR TO BIDDING THE CONTRACTOR MUST SATISFY HIMSELF REGARDING THE CHARACTER OF THE SUBSOILS TO INCLUDE THE AMOUNT OF LOAM, CLAY, SAND, QUICKSAND, HARDPAN, GRAVEL, ROCK, WATER, AND ALL OTHER MATERIAL TO BE ENCOUNTERED AND WORK TO BE PERFORMED.
24. THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO EXISTING PROPERTIES AND IMPROVEMENTS. ANY ITEMS DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.
25. THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOBSITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY.
26. STREET AND TRAFFIC SIGNS SHALL BE RELOCATED BY THE CONTRACTOR IF NECESSARY, AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR.
27. BACKFILL COMPACTION SHALL BE TYPE 1 (MAG, SECTION 601) UNLESS OTHERWISE NOTED.
28. AGGREGATE BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN ACHIEVED.
29. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE VERIFIED FOR DETAIL CONFORMANCE, COMPLETED AND TESTED (TO INCLUDE BUT NOT LIMITED TO) SEWER TESTING, LOW AIR TESTING OF MAIN LINE AND SERVICES, TRACE WIRE TESTING, DEFLECTION TESTING AND VERIFICATION OF MANHOLES CONFORMING TO COP DETAIL 420P. WATER TESTING CHLORINATION/DISINFECTING OF MAIN LINE AND SERVICES, PRESSURE TESTING, TRACE WIRE TESTING AND VERIFICATION OF VALVE BOXES CONFORMING TO COP DETAIL 391P.
30. ALL ASPHALT CONCRETE PAVEMENT SHALL BE PER APPLICABLE MAG SPECIFICATIONS AS AMENDED BY THE CITY OF PRESCOTT. ASPHALT CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
31. ALL UTILITY FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. SHALL BE ADJUSTED TO FINISH ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE BY THE CONTRACTOR PER COP STANDARD DETAILS.
32. ACCEPTANCE OF THE COMPLETED PAVING STRUCTURES WILL NOT BE GIVEN UNTIL REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY.
33. ALL CONCRETE TO BE AT LEAST 3000 PSI CLASS "A" PORTLAND CEMENT CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS, SPECIFICATIONS, OR IN STANDARD DETAILS.
34. EDGES OF CONCRETE STRUCTURES TO HAVE A ¼" CHAMFER, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
35. CONCRETE SURFACES TO HAVE A BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.
36. ALL EXPANSION JOINTS TO BE SEALED WITH ½" EXPANSION JOINT, PRE-FORMED JOINT FILLER AND SEALER, IN ACCORDANCE WITH MAG SECTION 729.
37. DRIVEWAY ENTRANCES WILL BE LOCATED AS SPECIFIED ON THE PLANS UNLESS MODIFIED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED OVER 6" THICK AGGREGATE BASE COURSE PER MAG SPECIFICATION 702 AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, UNLESS OTHERWISE NOTED.
38. ALL DISTURBED FENCES SHALL BE REPLACED IN KIND. CONTRACTOR SHALL EXTEND FENCE REPLACEMENT TO THE CLOSEST UPRIGHT SUPPORT NECESSARY FOR STABILITY.
39. MAILBOXES SHALL BE REMOVED AND REINSTALLED AS DIRECTED BY THE U.S. POSTAL SERVICE AND THE CITY OF PRESCOTT TEMPORARY LOCATIONS SHALL BE PER U.S.P.S.
40. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS.
41. THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM TWO YEAR PERIOD AFTER FORMAL ACCEPTANCE OF THE WORK BY THE CITY.

COP STANDARD DETAIL

GENERAL NOTES

CITY ENGINEER

REVISED: DETAIL No.

05/15

101P

1. ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
2. ALL EXISTING FRAMES, COVERS, VALVE BOXES, & MANHOLES SHALL BE EITHER REPLACED OR ADJUSTED TO FINISH GRADE DEPENDING ON PLAN CALL OUT UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL MYLAR & CAD FORMAT DIGITAL 'AS-BUILT' PLANS ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS & TO COMPLETE THE WORK.
9. CIP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT 3RD PARTY INSPECTIONS.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRICAL CONDUITS & STRUCTURES IN ADVANCE OF ANY CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER &/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.
13. CONTRACTOR SHALL NOTIFY 'BLUE STAKE' AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON THOSE VERIFICATIONS. IF ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
17. ALL PLANS SIGNED BY THE CITY ARE NULL & VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING.
18. PROJECT CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.
19. ALL WATER LINES & APPURTENANCES SHALL BE PROVIDED WITH TRACE WIRE PER CITY STANDARD DETAIL. TRACE WIRE SHALL BE SUBJECT TO A TRACEABILITY TEST, EASILY ACCESSIBLE, & ANY DEFICIENCIES SHALL BE CORRECTED PRIOR TO PAVING. THE TRACE WIRE SHOULD BE TESTED AND SUBMITTED AS A PACKAGE WITH THE TESTING PACKET.
20. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
21. WATER MAINS SHALL BE SUBJECT TO A PRESSURE & LEAKAGE TEST IN ACCORDANCE WITH AWWA C-600 STANDARD.
22. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH ADEQ ENGINEERING BULLETIN NO. 8 'DISINFECTION OF WATER SYSTEMS'.
23. OPERATION OF VALVES TO BE DONE BY CITY PERSONNEL ONLY.
24. DUCTILE IRON PIPE TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. ALL MATERIALS USED IN THE INSTALLATION OF DUCTILE IRON PIPE SHALL BE PURSUANT TO AAC R-18-4.
25. ALL MATERIALS & PRODUCTS THAT COME INTO CONTACT WITH DRINKING WATER OR DRINKING WATER TREATMENT CHEMICALS MUST COMPLY WITH NSF STANDARD 61. ANY 'OR EQUAL' SUBSTITUTION SHALL ALSO MEET NSF STANDARD 61.
26. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
27. ALL MATERIALS USED IN THE INSTALLATION OF WATER MAINS SHALL BE PURSUANT TO AAC R-18-4 & SHALL BE NSF APPROVED FOR POTABLE WATER.
28. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION.
29. ALL DUCTILE IRON, COPPER, & BRASS FITTINGS SHALL BE ENCASED IN POLYETHYLENE PROTECTIVE WRAPPING IN ACCORDANCE WITH MAG SECTION 610.5 UNLESS COUNTERINDICATED BY GEOTECHNICAL CORROSIVITY TESTING OF BEDDING AND SHADING MATERIALS & APPROVED BY THE PUBLIC WORKS DIRECTOR.
30. WATER LINES SHALL BE INSTALLED WITH MECHANICAL RESTRAINTS WHERE JOINT RESTRAINTS IS REQUIRED.
31. WATER SERVICE INTERRUPTION NOTICES SHALL BE GIVEN TO AFFECTED RESIDENTS BY THE CONTRACTOR AT HIS EXPENSE. ADVANCE NOTIFICATION REQUIREMENTS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO SCHEDULING A SHUTDOWN.
32. WATER MAIN TAPS, SERVICE TAPS, SHUTDOWN REQUESTS, AND METER REQUESTS MUST BE INITIATED WITH THE CITY INSPECTOR A MINIMUM OF 5 WORKING DAYS IN ADVANCE.

COP STANDARD DETAIL

WATER PLAN GENERAL NOTES

CITY ENGINEER

REVISED: 05/15
DETAIL No. 103P

1. ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
2. ALL EXISTING FRAMES, COVERS, VALVE BOXES, & MANHOLES SHALL BE EITHER REPLACED OR ADJUSTED TO FINISH GRADE DEPENDING ON PLAN CALL OUT UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL MYLAR & CAD FORMAT DIGITAL "AS-BUILT" PLANS ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS & TO COMPLETE THE WORK.
9. CIP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT 3RD PARTY INSPECTIONS.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRICAL CONDUITS & STRUCTURES IN ADVANCE OF ANY CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER &/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.
13. CONTRACTOR SHALL NOTIFY "BLUE STAKE" AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON THOSE VERIFICATIONS. IF ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION; MORE SPECIFICALLY WHERE THEY PERTAIN TO MAXIMUM ALLOWABLE SEWER LINE/PRESSURE SEWER LINE EXFILTRATION-INFILTRATION RATES.
17. ALL PLANS SIGNED BY THE CITY ARE NULL & VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING.
18. PROJECT CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.
19. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
20. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
21. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT CONTRACTOR'S EXPENSE.
22. SEWER FORCE MAIN LINES SHALL BE DESIGNED AND CONSTRUCTED OF A MATERIAL SUITABLE FOR SANITARY SEWER PRESSURE PIPE AS APPROVED BY THE CITY ENGINEER. SEWER LINES SHALL BE PRESSURE TESTED TO A MINIMUM OF 50 PSI ABOVE DESIGN WORKING PRESSURE AT THE LOWEST POINT IN THE SYSTEM FOR A MINIMUM OF 4 HOURS IN ACCORDANCE WITH AAC R18-9.
23. SEWER LINE LOW PRESSURE AIR TESTS SHALL BE DONE ON 100% OF ALL LINES AFTER PLACEMENT OF BACKFILL TO PAVEMENT SUBGRADE. TEST EACH SEGMENT OF THE SEWER LINE FOR LEAKAGE USING THE APPLICABLE METHOD BELOW AND RECORD THE RESULTS:
 - 23A. "STANDARD TEST METHOD FOR INSTALLATION OF ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR, F1417-92(1998)" PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
24. SEWER MANHOLES EXFILTRATION TESTS SHALL BE DONE ON 100% OF ALL MANHOLES. VACUUM TESTING IN ACCORDANCE WITH CITY STANDARDS MAY BE USED IN LIEU OF EXFILTRATION TEST. THE CONTRACTOR SHALL TEST EACH MANHOLE USING ONE OF THE FOLLOWING TEST PROTOCOLS:
 - 24A. WATERTIGHTNESS TESTING BY FILLING THE MANHOLE WITH WATER. THE CONTRACTOR SHALL ENSURE THAT THE DROP IN WATER LEVEL FOLLOWING PRESOAKING DOES NOT EXCEED 0.00034 OF THE TOTAL MANHOLE VOLUME PER HOUR.
 - 24B. NEGATIVE AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE" (VACUUM) TEST, C1244-02e1(2002), PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. THIS MATERIAL IS INCORPORATED BY REFERENCE & DOES NOT INCLUDE ANY LATER AMENDMENTS OR EDITIONS OF THE INCORPORATED MATERIAL, & MAY BE VIEWED AT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY, 1110 W. WASHINGTON, PHOENIX, AZ. 85007, OR OBTAINED FROM THE AMERICAN SOCIETY FOR TESTING & MATERIALS INTERNATIONAL, 100 BAR HARBOR DRIVE, WEST CONSHOHOCKEN, PA. 19428-2959.
25. SEWER LINE DEFLECTION TESTS WITH AN APPROPRIATELY SIZED MANDREL SHALL BE DONE ON 100% OF ALL NON-RIGID PIPE LINES.
26. THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL SEWER MAINS AND LATERALS INSTALLED WITHIN THE CITY'S COLLECTION SYSTEM UTILIZING A SEWER CCTV SYSTEM AFTER COMPLETE BACKFILL AND COMPACTION BUT BEFORE INSTALLING ANY PORTION OF THE PAVEMENT STRUCTURAL SECTION. THE INSPECTION SHALL COMPLY WITH THE CITY'S VIDEO ACCEPTANCE PROCEDURE. THE CONTRACTOR SHALL PROVIDE 72 HOURS ADVANCE NOTICE FOR CITY STAFF TO BE PRESENT DURING THE VIDEO OPERATION AND SHALL PROVIDE THE CITY A VIDEO DVD AND HARD COPY OF THE INSPECTION REPORT UPON COMPLETION.
27. COVER EACH SEWER LINE WITH AT LEAST 3 FEET OF EARTH COVER MEETING THE REQUIREMENTS "TRENCH EXCAVATION, BACKFILLING, & COMPACTION" (SECTION 601) REVISED 2004, PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS; & "RIGID PIPE BEDDING FOR SANITARY SEWERS" (WMM 104) REVISED JULY 2002, PUBLISHED BY PIMA COUNTY WASTEWATER MANAGEMENT.
28. PRESSURE SEWER MAINS AND SERVICE LATERALS (LPS) SHALL BE SUBJECT TO A PRESSURE & LEAKAGE TEST IN ACCORDANCE WITH AWWA-C-600 STANDARD. TEST PRESSURE SHALL BE A MINIMUM OF 100 PSI, OR 50 PSI OVER WORKING PRESSURE, WHICHEVER IS GREATER. TESTING SHALL BE DONE AFTER BACKFILL TO SUBGRADE.

COP STANDARD DETAIL

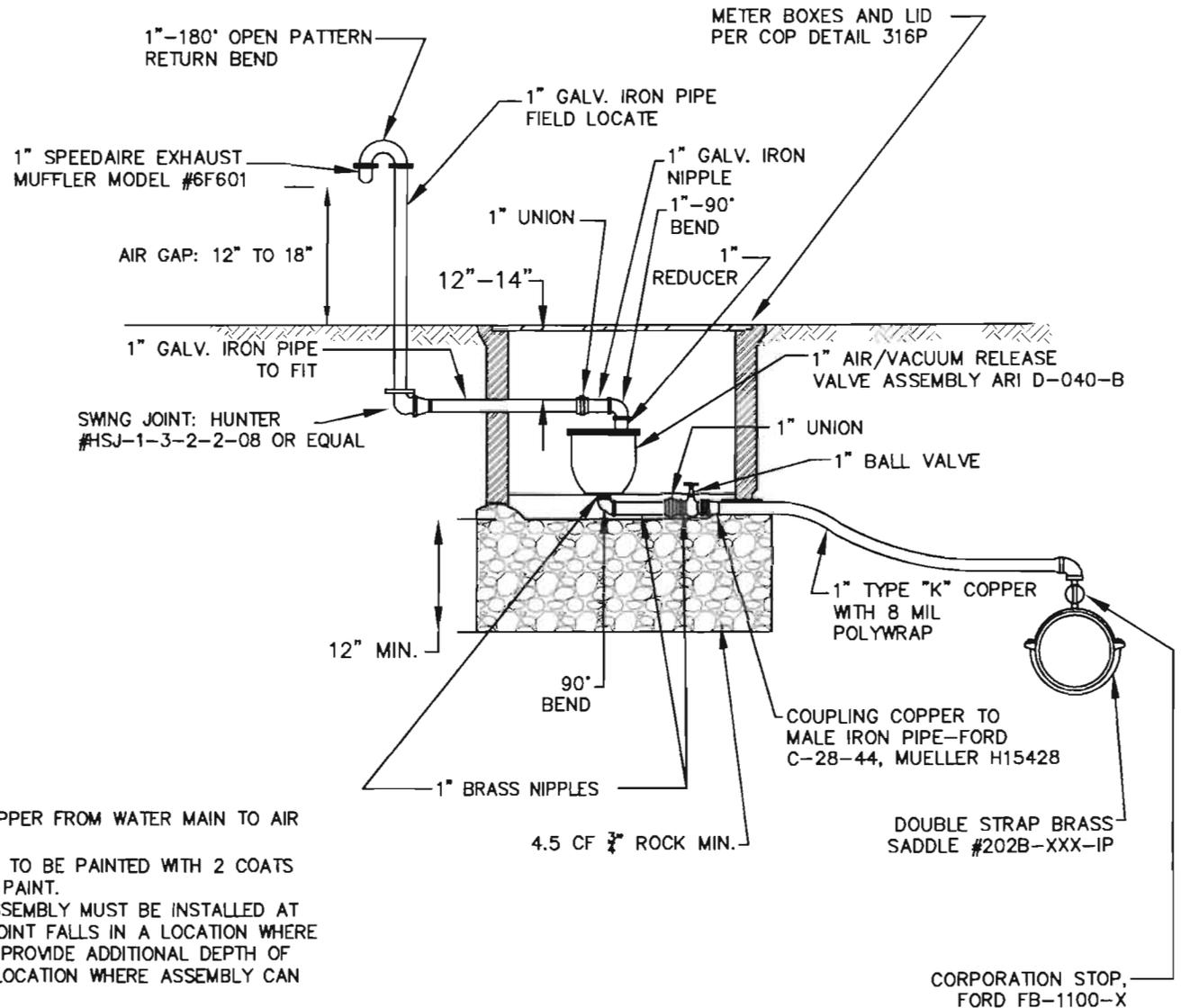
WASTEWATER PLAN
GENERAL NOTES

CITY ENGINEER

REVISED: DETAIL No.

05/15

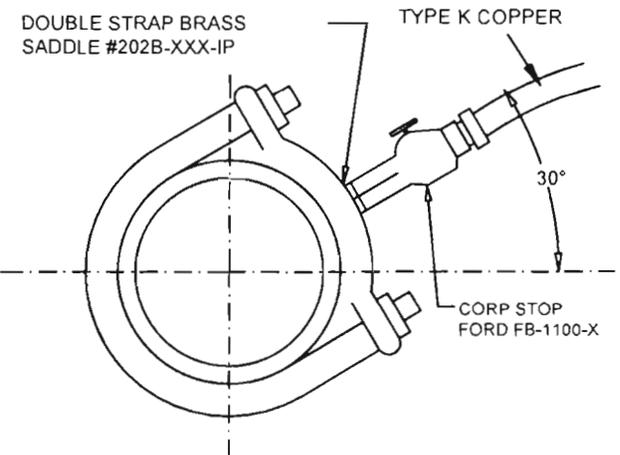
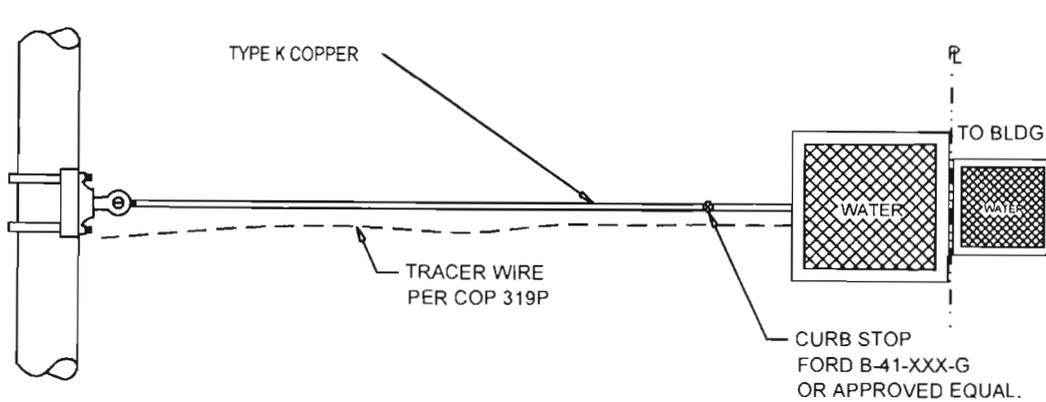
104P



NOTES:

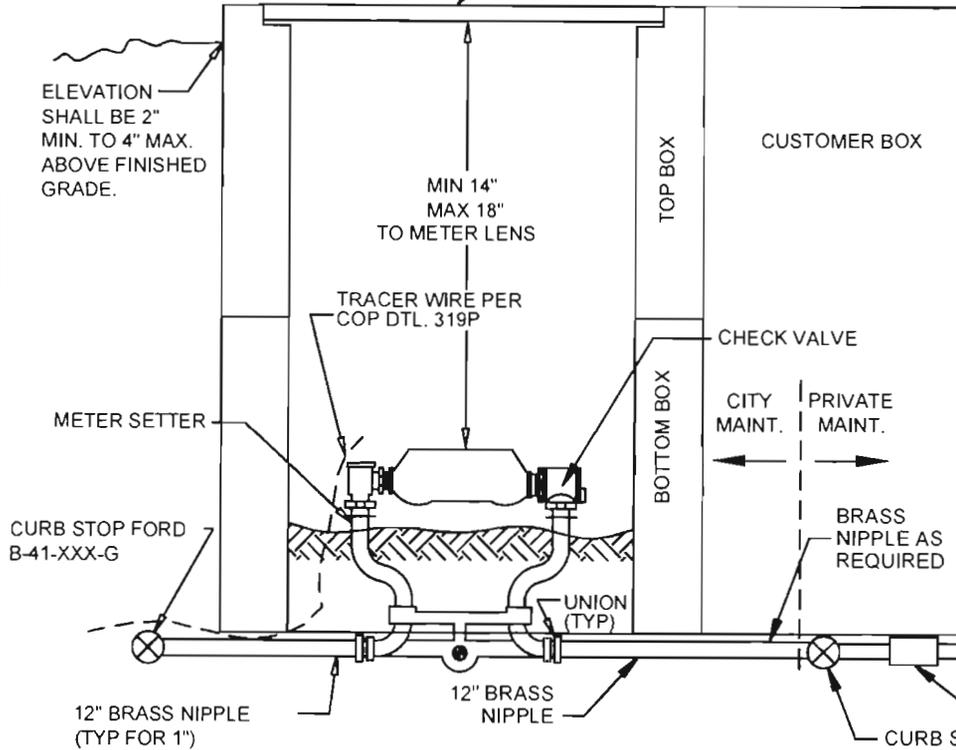
1. ALL FITTINGS TO BE BRASS OR COPPER FROM WATER MAIN TO AIR & VACUUM ASSEMBLY.
2. 1" GALVANIZED PIPE ABOVE GRADE TO BE PAINTED WITH 2 COATS OF RUSTOLEUM HIGH GLOSS WHITE PAINT.
3. AIR & VACUUM RELEASE VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF LINE. IF HIGH POINT FALLS IN A LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, PROVIDE ADDITIONAL DEPTH OF LINE TO CREATE HIGHPOINT AT A LOCATION WHERE ASSEMBLY CAN BE INSTALLED.
4. LOCATE AIR & VACUUM METER BOX OUTSIDE OF TRAFFIC AREAS, BEHIND CURB. IN SIDEWALKS AND AREAS WITH VEHICULAR TRAFFIC, USE OLYMPIC FOUNDRY SM-30 CAST IRON BOX & COVER.

COP STANDARD DETAIL	1" AIR VACUUM RELEASE VALVE ASSEMBLY	CITY ENGINEER	REVISED: 01/15	DETAIL No. 317P
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NOTE: TOP BOX HAS NO CUTOUTS.

LID SHALL BE DIAMOND PLATE STEEL



SERVICE SIZE	CORB STOP	CURB STOP	METER SETTER	CITY BOX	CURB STOP	CUSTOMER BOX
1"	FB1100-4-G	B41-444-G	VBH74-9W-11-44	#2	B11-444	#1
1.5"	FB1100-6-G	B41-666-G	VBH76-12W-11-66	#4	B11-666	#2
2"	FB1100-7-G	B41-777-G	VBH77-12W-11-77	#4	B11-777	#2

NOTES:

- 1) ALL PARTS LISTED ARE FORD METER BOX CO. OR APPROVED EQUAL.
- 2) FOR 5/8" X 3/4" METERS, INSTALL FORD A24 METER ADAPTERS.
- 3) ON 1.5" AND 2" METERS INSTALL UNIONS ON EACH SIDE OF THE METER SETTER USING 6" BRASS NIPPLES IN-LIEU OF 12" BRASS NIPPLES.

NOTES:

1. SERVICE LINE SHALL BE TYPE K COPPER WITH 8 MIL POLYWRAP.
2. BOXES SHALL BE PER MAG STD. DETAIL 320.
3. SERVICE LINE IS TO HAVE MIN. 3 FT. COVER WITHIN THE ROADWAY PRISM.
4. SERVICE LINE SHALL BE UNSPLICED FROM CORP. STOP AT MAIN TO CURB STOP AT METER BOX.
5. FOR CUT OR FILL SLOPE METER LOCATIONS, CMU WALL OR OTHER APPROVED METHOD SHALL BE REQUIRED FOR PROTECTION OF METER SET.
6. METER TO BE INSTALLED BY C.O.P. ONLY.
7. REFER TO COP DET 200P FOR WATER SERVICE BEDDING AND SHADING.
8. WATER SERVICE OR METER BOX SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS, OR STREETS.
9. NO LANDSCAPE FEATURES OR VEGETATION WITHIN 5' OF METER BOXES.
10. CONTRACTOR SHALL VERIFY FACTORY SETTING ON PRESSURE REGULATOR.

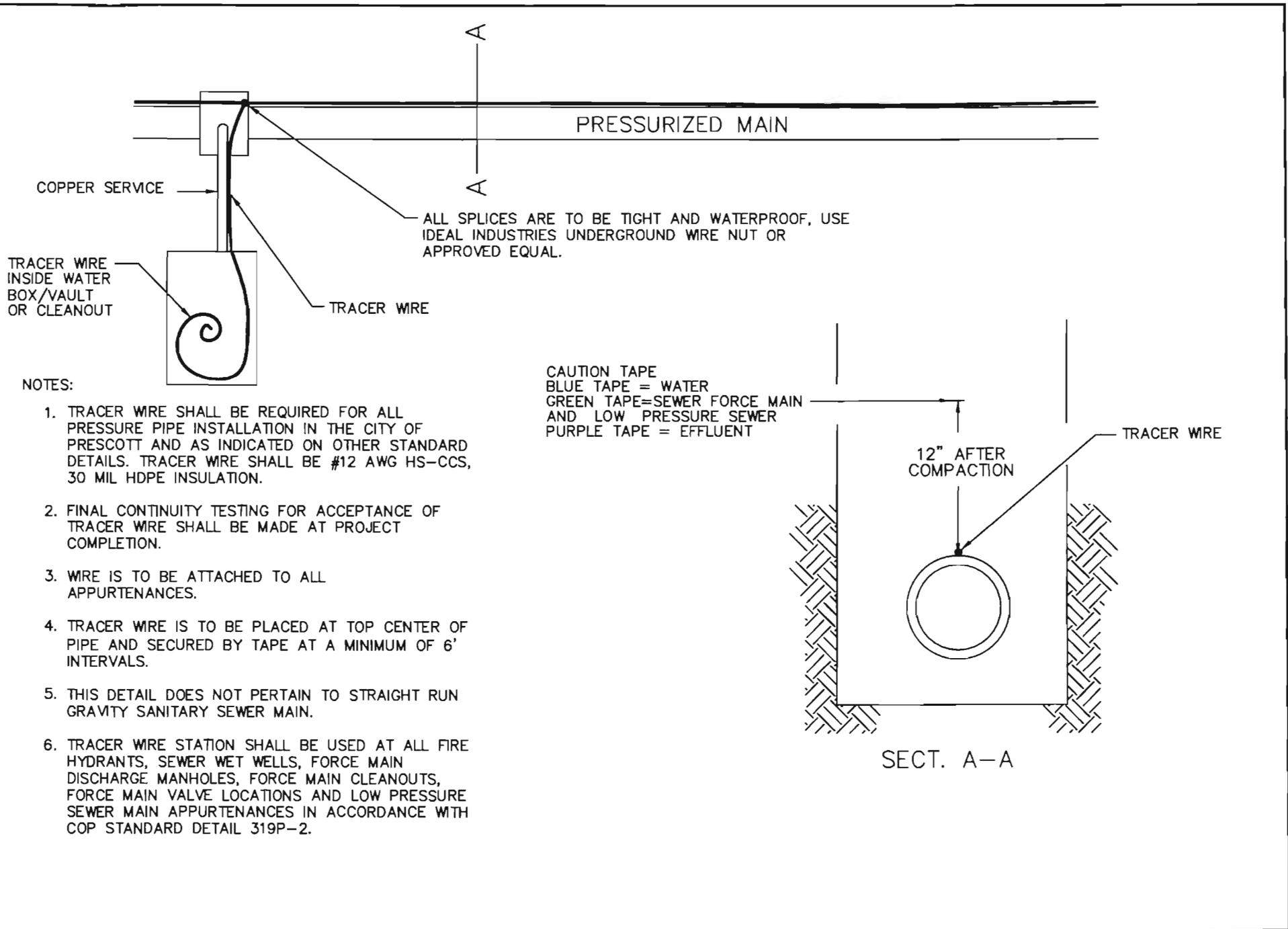
COP STANDARD DETAIL

1" - 2" WATER SERVICE CONNECTIONS

CITY ENGINEER

REVISED: 01/15

DETAIL No. 316P



NOTES:

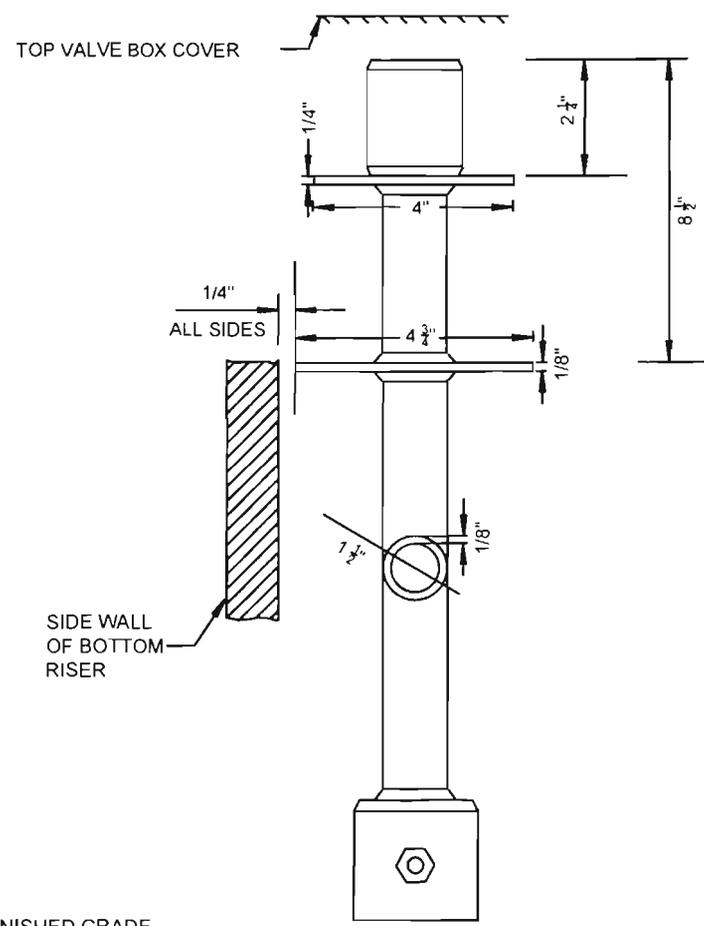
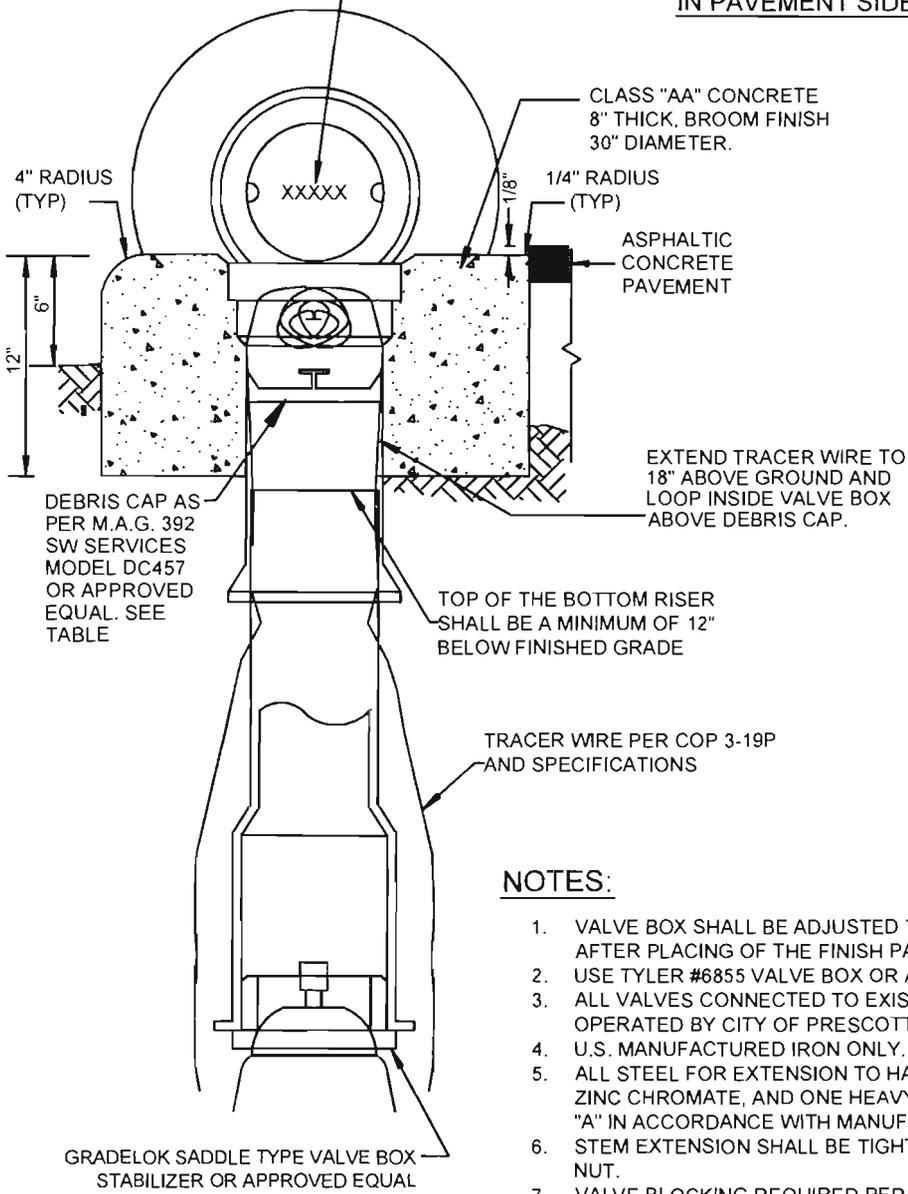
1. TRACER WIRE SHALL BE REQUIRED FOR ALL PRESSURE PIPE INSTALLATION IN THE CITY OF PRESCOTT AND AS INDICATED ON OTHER STANDARD DETAILS. TRACER WIRE SHALL BE #12 AWG HS-CCS, 30 MIL HDPE INSULATION.
2. FINAL CONTINUITY TESTING FOR ACCEPTANCE OF TRACER WIRE SHALL BE MADE AT PROJECT COMPLETION.
3. WIRE IS TO BE ATTACHED TO ALL APPURTENANCES.
4. TRACER WIRE IS TO BE PLACED AT TOP CENTER OF PIPE AND SECURED BY TAPE AT A MINIMUM OF 6' INTERVALS.
5. THIS DETAIL DOES NOT PERTAIN TO STRAIGHT RUN GRAVITY SANITARY SEWER MAIN.
6. TRACER WIRE STATION SHALL BE USED AT ALL FIRE HYDRANTS, SEWER WET WELLS, FORCE MAIN DISCHARGE MANHOLES, FORCE MAIN CLEANOUTS, FORCE MAIN VALVE LOCATIONS AND LOW PRESSURE SEWER MAIN APPURTENANCES IN ACCORDANCE WITH COP STANDARD DETAIL 319P-2.

IN DIRT SIDE

"WATER", "SEWER", "EFFL."
ON COVER (TYP.)

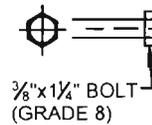
IN PAVEMENT SIDE

FOR DEEP VALVE SETTING



NOTES:

1. VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE AFTER PLACING OF THE FINISH PAVEMENT SURFACE.
2. USE TYLER #6855 VALVE BOX OR APPROVED EQUAL.
3. ALL VALVES CONNECTED TO EXISTING MAINS ARE TO BE OPERATED BY CITY OF PRESCOTT PERSONNEL ONLY.
4. U.S. MANUFACTURED IRON ONLY.
5. ALL STEEL FOR EXTENSION TO HAVE SHOP PRIME COAT ZINC CHROMATE, AND ONE HEAVY APPLICATION NO-OX-10 "A" IN ACCORDANCE WITH MANUFACTURE'S DIRECTION.
6. STEM EXTENSION SHALL BE TIGHTLY SECURED TO VALVE NUT.
7. VALVE BLOCKING REQUIRED PER COP STANDARD DETAIL 301P.



DEBRIS CAP COLOR TABLE

VALVE TYPE	COLOR
IN-LINE-RW	BLACK
HYDRANT	BLUE
BUTTERFLY	YELLOW
ZONE	RED
FIRE LINE	WHITE
EFFLUENT	PURPLE
SEWER FORCE MAIN	GREEN

COP STANDARD DETAIL

VALVE BOX

CITY ENGINEER

REVISED:

01/15

DETAIL No.

391P

BID SCHEDULE
SMOKE TREE LANE WATER AND PAVEMENT IMPROVEMENTS PROJECT

ITEM NO.	ITEM DESCRIPTION	BID QTY	UNIT	BID UNIT PRICE	ITEM TOTAL
GENERAL CONSTRUCTION					
1	100.4 PUBLIC RELATIONS ALLOWANCE	1	AL	\$ 40,000.00	\$ 40,000.00
2	105.8 CONSTRUCTION STAKING	1	LS		
3	107.15 STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	1	LS		
4	109.10 MOBILIZATION	1	LS		
5	109.11 CONTRACT ALLOWANCE	1	AL	\$ 360,000.00	\$ 360,000.00
6	200.2 BYPASS PUMPING	1	LS		
7	205.1 ROADWAY EXCAVATION	4,668	CY		
8	205.2 REMOVAL OF UNSUITABLE MATERIAL AND BACKFILL WITH ABC	500	CY		
9	220 SP RIP RAP ON FILTER FABRIC	9	SY		
10	301 SUBGRADE PREPARATION (ROADWAY)	12,953	SY		
11	306 SP GEOGRID REINFORCEMENT ON FILTER FABRIC	12,953	SY		
12	310 8" AGGREGATE BASE COURSE AT PAVEMENT	5,428	TON		
13	317.2 SP ASPHALT MILLING (2.5" DEPTH)	6,302	SY		
14	321 ASPHALT CONCRETE (AC) PAVEMENT (2.5" LIFT, 3/4" AGGREGATE)	12,953	SY		
15	321.8.7a SP PAVEMENT FABRIC INTERLAYER	6,302	SY		
16	321.8.7b SP PAVEMENT FABRIC ASPHALT BINDER COAT	1,578	GAL		
17	321.16 SP CRACK SEALING	2,525	LF		
18	325 SP ARAC PAVEMENT (2.5" FINAL LIFT, 1/2" AGGREGATE)	19,255	SY		
19	329 AC BITUMINOUS TACK COAT, TYPE SS-1h	3.2	TON		
20	336a PAVEMENT MATCHING AND SURFACING REPLACEMENT (WATERLINE TRENCH)	55	SY		
21	336b PAVEMENT MATCHING AND SURFACING REPLACEMENT (INTERSECTIONS)	449	SY		
22	340.4.1 CONCRETE CURB AND GUTTER	1,401	LF		
23	340.4.1.1 SINGLE CURB	19	LF		
24	340.4.2 CONCRETE SIDEWALK	4,753	SF		
25	340.4.2.1 ADA RAMP	1,806	SF		
26	340.4.3 CONCRETE DRIVEWAY ENTRANCES AND 6" CONCRETE SLABS	1,368	SF		
27	340.4.4 CONCRETE VALLEY GUTTER AND SPANDRELS	3,321	SF		
28	345.4 ADJUST EXISTING VALVE BOX AND COVER	3	EA		

BID SCHEDULE
SMOKE TREE LANE WATER AND PAVEMENT IMPROVEMENTS PROJECT

29	345.5	ADJUST EXISTING MANHOLE	13	EA		
30	350.5	REMOVAL OF MISCELLANEOUS CONCRETE	1	LS		
31	401	TRAFFIC CONTROL PLAN	1	LS		
32	401.2a	BARRICADES AND STORAGE	1	LS		
33	401.2b	MESSAGE BOARDS	300	PER DAY		
34	401.2c	INCIDENTAL TRAFFIC RELATED ITEMS	1	LS		
35	401.3a	FLAGGERS	7,000	HR		
36	401.3b	OFF DUTY POLICE OFFICERS	1	AL	\$ 5,000.00	\$ 5,000.00
37	402.2a	THERMOPLASTIC STRIPING - WHITE	1,400	LF		
38	402.2b	THERMOPLASTIC TURN ARROW - WHITE	2	EA		
39	402.3a	TEMPORARY STRIPING - YELLOW PAINT	8,340	LF		
40	402.3b	TEMPORARY STRIPING - WHITE PAINT	1,660	LF		
41	402.3c	TEMPORARY STRIPING - SYMBOL	3	EA		
42	402.4a	PERMANENT STRIPING - YELLOW PAINT	8,340	LF		
43	402.4b	PERMANENT STRIPING - WHITE PAINT	260	LF		
44	403.1a	SIGN POST AND BASE	26	EA		
45	404	8'x50' QUADRAPOLE LOOP DETECTOR, COMPLETE	2	EA		
46	405 SP	SURVEY MONUMENT COP SD 120-1, TYPE A	27	EA		
47	431	REMOVE AND REPLACE LANDSCAPE ROCK	1	LS		
48	505.1.1B	CONCRETE HEADWALL ON EXISTING CULVERT W/ FALL PROTECTION	2	EA		
49	505.1.1D	SCUPPER	4	EA		
50	520.1 SP	HANDRAIL PER COP SD 1-01P	64	LF		
SUBTOTAL			\$			
WATER						
1	601.2.11	ROCK REMOVAL (TRENCH)	1,554	CY		
2	610a SP	18" DUCTILE IRON WATER MAIN	5,263	LF		
3	610b SP	10" DUCTILE IRON WATER MAIN	51	LF		
4	610c SP	8" DUCTILE IRON WATER MAIN	1,045	LF		
5	610.3c SP	Polyethylene Protection Wrapping (Provisionary)	6,359	LF		
6	610.5.1 SP	Sta ±10+85 - 18" VERTICAL REALIGNMENT	1	EA		

BID SCHEDULE
SMOKE TREE LANE WATER AND PAVEMENT IMPROVEMENTS PROJECT

7	610.5.2 SP	Sta ±17+06 - 18" VERTICAL REALIGNMENT	1	EA		
8	610.5.3 SP	Sta ±47+74 - 18" VERTICAL REALIGNMENT	1	EA		
9	610.5.4 SP	Sta ±52+80 - 18" VERTICAL REALIGNMENT	1	EA		
10	610.5.5 SP	Sta ±17+13 - 8" VERTICAL REALIGNMENT	1	EA		
11	610.5.6 SP	Golden Hawk Connection - 8" VERTICAL REALIGNMENT	1	EA		
12	610.5.7 SP	Leah Connection- 8" VERTICAL REALIGNMENT	1	EA		
13	610.5.8 SP	Carolyn Connection - 8" VERTICAL REALIGNMENT	1	EA		
14	610.5.9 SP	Lakewood Connection - 8" VERTICAL REALIGNMENT	1	EA		
15	610.5.10 SP	Erin Connection - 8" VERTICAL REALIGNMENT	1	EA		
16	610.5.11 SP	Birchwood Connection - 8" VERTICAL REALIGNMENT	1	EA		
17	610.5.12 SP	Sta ±46+90 Fire Hydrant - 6" VERTICAL REALIGNMENT	1	EA		
18	610.5.13 SP	Sta ±50+67 Fire Hydrant - 6" VERTICAL REALIGNMENT	1	EA		
19	610.5.14 SP	Sta ±41+75 - EXISTING WATER MAIN VERTICAL REALIGNME	1	EA		
20	610.5.15 SP	Golden Hawk Connection - EXISTING WATER MAIN VERTICAL REALIGNMENT	1	EA		
21	610.5.16 SP	Sequoia Connection - EXISTING WATER MAIN VERTICAL REALIGNMENT	1	EA		
22	610.5.17 SP	Sta ±59+60 Fire Hydrant - EXISTING WATER MAIN VERTICAL REALIGNMENT	1	EA		
23	610.5d	EXTRA PROTECTION AT EXISTING CULVERT	3	EA		
24	610.9	FIRE HYDRANT ASSEMBLY	8	EA		
25	610.11E	WATER SERVICE CONNECTION	12	EA		
26	610.11F	2" COMMERCIAL WATER SERVICE	8	EA		
27	610.5.18	LEAH LANE- TEMPORARY VERTICAL REALIGNMENT ON EXISTING WATER MAIN	1	EA		
28	610.5.19	LAKEWOOD LANE- TEMPORARY VERTICAL REALIGNMENT ON EXISTING WATER MAIN	1	EA		
29	630.3a	8" GATE VALVE, BOX AND COVER	2	EA		
30	630.4a SP	30"x18" TAPPING SLEEVE, 18" BUTTERFLY VALVE, BOX, AND COVER	1	EA		
31	630.4b SP	12" TAPPING SLEEVE, VALVE, BOX, AND COVER	1	EA		
32	630.4c SP	10" TAPPING SLEEVE, VALVE, BOX, AND COVER	1	EA		
33	630.4d SP	8" TAPPING SLEEVE, VALVE, BOX, AND COVER	7	EA		
34	630.4e SP	6" TAPPING SLEEVE, VALVE, BOX, AND COVER	1	EA		
35	630.5	18" BUTTERFLY VALVE, BOX AND COVER	11	EA		
36	630.6b	COMBINATION VALVE ASSEMBLY (ARV)	5	EA		

**BID SCHEDULE
SMOKE TREE LANE WATER AND PAVEMENT IMPROVEMENTS PROJECT**

37	632 SP	CAP EXISTING WATER MAIN WITH COORDINATED SHUT DOWN	12	EA		
38	650.1	WATER MAIN ABANDONMENT	4,536	LF		
39	650.2	WATER MAIN REMOVAL	447	LF		
SUBTOTAL			\$			
SEWER						
1	615	8" SDR-35 SANITARY SEWER MAIN	93	LF		
2	615.1	RECONSTRUCT EXISTING SANITARY SEWER WITH EXTRA PROTECTION	7	EA		
3	615.7	SANITARY SEWER SERVICE RECONSTRUCTION	12	EA		
4	615.11.1	MAINLINE CLOSED CIRCUIT TELEVISION	93	LF		
5	615.11.1a	SERVICE LATERAL CLOSED CIRCUIT TELEVISION	12	EA		
6	625	SANITARY MANHOLE 48" DIA	2	EA		
7	626.1 SP	COAT MANHOLE	2	EA		
8	651.2	REMOVAL OF SANITARY SEWER	105	LF		
9	651.2a	REMOVAL OF SANITARY SEWER MANHOLE MAIN	1	EA		
SUBTOTAL			\$			
TOTAL			\$			

TOTAL BID

Dollars

(Written Words)

Signature of Company Official

Date Signed

Title

Company Name

Phone Number

Address

Fax Number

City/State

Zip Code