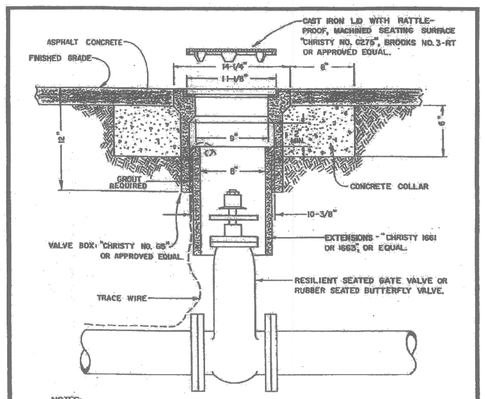



NOTES:

1. VALVE BOX AND LID SHALL BE "CHRISTY NO. G5" AND "CHRISTY NO. C275", BROOKS NO. 3-RT, OR EQUALS.
2. ALL LIDS SHALL HAVE MACHINE SEATING SURFACES.
3. EXTENSIONS SHALL BE AS MANUFACTURED FOR THE VALVE BOX SUPPLIED OR A.C. PIPE OF CORRECT SIZE MAY BE USED.
4. CONCRETE COLLAR SHALL BE OF CLASS "B" CONCRETE AND SHALL BE CONSTRUCTED 2½ INCHES BELOW FINISHED GRADE.
5. RESILIENT SEATED GATE VALVE SHALL BE MUELLER, KENNEDY, AMERICAN AVK CO., OR APPROVED EQUAL.
6. RESILIENT SEATED GATE VALVE SHALL HAVE A NON-RISING STEM AND CONFORM TO A.W.W.A. STANDARD C509 OF LATEST REVISION.
7. RUBBER SEATED BUTTERFLY VALVE SHALL BE DRESSER 450, MUELLER B3211 OR APPROVED EQUAL.
8. RUBBER SEATED BUTTERFLY VALVE SHALL CONFORM TO A.W.W.A. STANDARD C504 OF LATEST REVISION.
9. RUBBER SEATED BUTTERFLY VALVES SHALL BE USED FOR PIPE SIZES LARGER THAN 12 INCHES.

| NO. | REVISED | BY |
|---|---|---|
| 4 | OCT. 2003 | JH |
| DRAWN BY: | C. SABERTON | |
| CHECKED BY: | J. PODESTA | |
| SCALE: | NONE | |

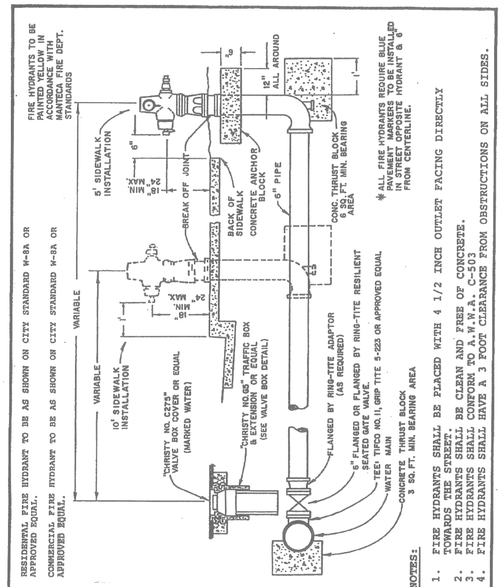
**STANDARD VALVE BOX**

CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: DIRECTOR OF PUBLIC WORKS

DRAWING NO. W-6

DATE: JAN. 1988




NOTES:

1. FIRE HYDRANTS SHALL BE PLACED WITH 4 1/2 INCH OUTLET FACING DIRECTLY TOWARDS THE STREET.
2. FIRE HYDRANTS SHALL BE CLEAN AND FREE OF CONCRETE.
3. FIRE HYDRANTS SHALL CONFORM TO A.W.W.A. C-503
4. FIRE HYDRANTS SHALL HAVE A 3 FOOT CLEARANCE FROM OBSTRUCTIONS ON ALL SIDES.

| NO. | REVISED | BY |
|---|---|---|
| 1 | FEB. 1992 | JK |
| DRAWN BY: | C. SABERTON | |
| CHECKED BY: | J. PODESTA | |
| SCALE: | NONE | |

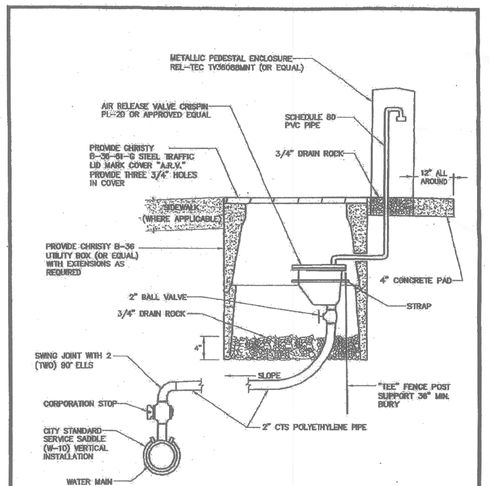
**FIRE HYDRANT**

CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: DIRECTOR OF PUBLIC WORKS

DRAWING NO. W-8

DATE: JAN.1988




NOTE:
SADDLES, VALVES, FITTINGS, ETC., SHALL BE BRONZE & SHALL MATCH COMBINATION AIR RELEASE VALVE SIZE.

| NO. | REVISED | BY |
|---|---|---|
| 2 | MAY. 2008 | JH |
| DRAWN BY: | J. ROSS | |
| CHECKED BY: | J. PODESTA | |
| SCALE: | NONE | |

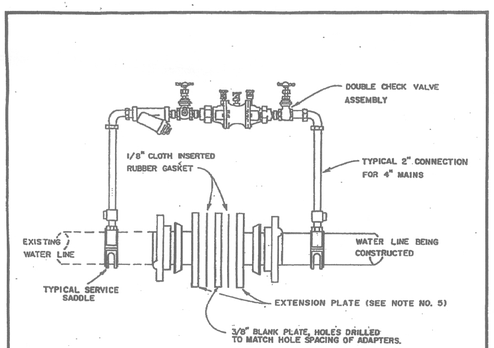
**AIR RELEASE VALVE**

CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: DIRECTOR OF PUBLIC WORKS

DRAWING NO. W-18

DATE: JUNE, 1999




NOTES:

1. ADAPTERS, PLATE AND DOUBLE CHECK VALVE SHALL BE USED ON ALL NEW LINE EXTENSIONS FOR ANY SIZE LINE (PURPOSE: TO REDUCE INTERRUPTION TO EXISTING WATER LINES IN SERVICE AND PREVENT POSSIBLE CONTAMINATION AT TIE-IN POINT FOLLOWING BACTERIOLOGICAL TESTING).
2. ALL AIR IN THE NEW LINE BEING CONSTRUCTED SHALL BE EXPELLED WITH A 1" TAP.
3. WATER TEST SHALL BE CONDUCTED AGAINST THE PLATE AND NEW BUTTERFLY VALVES.
4. ONCE THE LINE HAS BEEN PRESSURED TESTED, BACTERIOLOGICAL TESTED AND APPROVED, THE PLATE SHALL BE REMOVED FROM THE ADAPTERS AND ADAPTERS DRAWN TOGETHER AND CHECKED FOR LEAKS.
5. EXTENSION TESTING PLATE FOR ACP IS A HUB x FLANGE ADAPTER TYLER 5-258 OR APPROVED EQUAL AND FOR C-900 IS A MULTIPLE JOINT x FLANGE ADAPTER TYLER 5-158 OR APPROVED EQUAL.
6. 4" WATER MAINS REQUIRE A 2" JUMPER CONNECTION. 6" OR 8" WATER MAINS REQUIRE A 4" JUMPER CONNECTION. WATER MAINS 10" OR LARGER REQUIRE THE JUMPER CONNECTION SIZE TO BE DETERMINED BY THE CITY ENGINEER.

| NO. | REVISED | BY |
|---|---|---|
| 1 | FEB. 1992 | JK |
| DRAWN BY: | J. E. HULSEY | |
| CHECKED BY: | J. PODESTA | |
| SCALE: | NONE | |

**TEMPORARY CONNECTION WATER MAIN EXTENSION**

CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: DIRECTOR OF PUBLIC WORKS

DRAWING NO. W-3

DATE: JAN.1988

## SOUTH SAN JOAQUIN IRRIGATION DISTRICT (SSJID) CONSTRUCTION NOTES:

1. THE FOLLOWING APPLY TO ALL WORK WITHIN SSJID RIGHT-OF-WAY OR EASEMENTS AND ALL WORK ON SSJID IRRIGATION LINES.
2. SSJID SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ON OR NEAR IRRIGATION LINES, CALL SAM BOLOGNA AT (209) 249-4617. CONSTRUCTION ON OR NEAR IRRIGATION LINES MUST BE ACCOMPLISHED BETWEEN OCTOBER 15 AND FEBRUARY 15 OF ANY YEAR. BETWEEN THE TIME OF FEBRUARY 15 AND OCTOBER 15 IRRIGATION LINES WILL BE USED FOR IRRIGATION PURPOSES ONLY AND AS SUCH, UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE DISTRICT, CONSTRUCTION WILL NOT BE ALLOWED. FOR ALL CONSTRUCTION WORK INVOLVING PIPELINES USED TO CONVEY STORMWATER, THE CONTRACTOR SHALL COMPLETE ALL SUCH CONSTRUCTION IN A TIMELY AND DILIGENT MANNER WITHOUT RESTRICTING THE NORMAL FLOW OF WATER WITHIN THE LINE.
3. USED MATERIALS, REJECTS, MISFITS, OR SECONDS, ETC., ARE NOT ACCEPTABLE FOR USE ON DISTRICT FACILITIES.
4. WATERSTOP RX OR EQUIVALENT SHALL BE USED AT ALL COLD JOINTS. A 6" THICK BY 8" LONG CONCRETE OVERLAP WILL BE REQUIRED AT ALL COLD JOINTS OCCURRING DURING THE PLACEMENT OF THE CAST-IN-PLACE PIPE USED FOR IRRIGATION LINES. (COLD JOINTS INCLUDE FRESH CONCRETE WHICH HAS BEEN ALLOWED TO SET FOR MORE THAN 30 MINUTES.)
5. ALL IRRIGATION BOXES SHALL BE FORMED INSIDE AND OUT AND CONCRETE VIBRATED SUFFICIENTLY TO PROVIDE FOR SMOOTH SURFACED WALLS WITHOUT VOIDS AND HONEYCOMBS.
6. SSJID SHALL INSPECT ALL WORK PHASES ON IRRIGATION FACILITIES FOR CONFORMANCE TO DISTRICT SPECIFICATIONS. REINFORCING SHALL NOT BE ENCASED IN CONCRETE WITHOUT PRIOR DISTRICT INSPECTION.
7. SSJID SHALL BE PROVIDED WITH NAME, ADDRESS, AND PHONE NUMBER OF CONTRACTORS, SUBCONTRACTORS, ETC., RESPONSIBLE FOR WORK BEING PERFORMED ON DISTRICT FACILITIES. ALSO, PROVIDE NAME AND NUMBER OF CONTACT PERSON RESPONSIBLE FOR OVERSEEING ALL PHASES OF CONSTRUCTION.
8. THE CONTRACTOR HEREBY AGREES TO MAKE, AT HIS OWN EXPENSE, ALL REPAIRS OR REPLACEMENTS NECESSITATED BY DEFECTS IN MATERIALS OR WORKMANSHIP, SUPPLIED FOR DISTRICT FACILITIES, AND PAY FOR ANY DAMAGE TO OTHER WORKS RESULTING FROM SUCH DEFECTS WHICH BECOME EVIDENT WITHIN 1 YEAR AFTER THE DATE OF FINAL ACCEPTANCE OF WORK. THE CONTRACTOR FURTHER AGREES TO HOLD THE DISTRICT HARMLESS FROM LIABILITY OF ANY KIND ARISING FROM DAMAGE DUE TO SAID DEFECTS. THE CONTRACTOR SHALL MAKE REPAIRS AND REPLACEMENTS PROMPTLY UPON WRITTEN ORDER FROM THE DISTRICT.
9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ALL PIPELINE CRACKS WHICH DEVELOP DURING CONSTRUCTION OF IMPROVEMENTS AFFECTING THE PIPELINE.
10. THE CONTRACTOR SHALL NOT LEAVE DISTRICT PIPELINE PROJECTS INCOMPLETE FOR MORE THAN TWO WEEKS. WHEN CONDITIONS REQUIRE, CONTRACTOR SHALL PROVIDE A TEMPORARY DIVERSION DITCH TO PROVIDE FOR IRRIGATION WATER DELIVERY OR STORMWATER REMOVAL.
11. WATERSTOP R/X SHALL BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS RECOMMENDED BY THE MANUFACTURER. WATERSTOP R/X SHALL BE HELD SNUGLY IN-PLACE WITH PLASTIC OR METAL NETTING OR OTHER NON-BIODEGRADABLE MATERIAL OF SIMILAR CONSTRUCTION. A SAMPLE OF THE NETTING MATERIAL PROPOSED TO BE USED SHALL BE SUBMITTED WITH WRITTEN APPLICATION TO SSJID FOR ITS APPROVAL A MINIMUM OF ONE WEEK PRIOR TO INSTALLATION. NO SUBSTITUTIONS OF NETTING MATERIAL WILL BE PERMITTED WITHOUT THE ADVANCE WRITTEN APPROVAL OF THE DISTRICT'S ENGINEERING DEPARTMENT HEAD.
12. TIME LIMITS FOR DEVELOPMENT PLANS: SSJID HAS ADOPTED "TIME LIMITS" LIMITING THE PERIOD OF ITS APPROVAL SHOULD THE LANDOWNER/DEVELOPER FAIL TO SUBSTANTIALLY COMPLETE HIS DEVELOPMENT PROJECT IN A TIMELY MANNER AND AS PER APPROVED DEVELOPMENT PLANS. THESE "TIME LIMITS" ADOPTED BY SSJID ARE IN MOST CASES EQUAL TO THOSE UTILIZED BY THE GOVERNMENTAL AGENCY OR INSTITUTION RESPONSIBLE FOR DEVELOPMENT APPROVALS. SHOULD THE "TIME LIMIT" BE EXCEEDED, SSJID RESERVES THE RIGHT TO THEN APPLY ANY OF ITS CURRENT DEVELOPMENT STANDARDS AND REQUIREMENTS.
13. CONTRACTOR SHALL PUMP SSJID PIPELINE DRY PRIOR TO EXCAVATION UNDERNEATH IT.
14. CONSTRUCTION OF DRIVEWAYS OVER NON-REINFORCED PIPELINES WITH INADEQUATE COVER WILL NOT BE PERMITTED, UNLESS THE PIPELINE IS REPLACED WITH RGRCP OR A REINFORCED CONCRETE BRIDGING IS PLACED OVER PIPELINE PER SSJID SPECIFICATIONS. DRIVEWAYS PLACED OVER NON-REINFORCED PIPELINES WITH INADEQUATE COVER SHALL BE CONSTRUCTED IN SECTIONS TO ALLOW FOR EASY REMOVAL WITH MINIMAL DAMAGE IN THE EVENT THAT REPAIRS TO THE PIPELINE WILL BE NECESSARY IN THE FUTURE.
15. NO HEAVY EQUIPMENT WILL TRAVEL OVER THE SSJID PIPELINE WITHOUT APPROVED BRIDGING, SAID BRIDGING TO BE APPROVED BETWEEN SSJID AND THE CONTRACTOR.
16. ALL LANDSCAPING/FENCE PLANS WITHIN DISTRICT RIGHT-OF-WAY SHALL BE APPROVED BY THE DISTRICT.
17. SSJID WILL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY GRADING OR EXCAVATION WORK WITHIN DISTRICT EASEMENT.
18. CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH SSJID STANDARD SPECIFICATION 26-0.
19. USE OF PUBLIC UTILITY EASEMENTS, SOUTH SAN JOAQUIN IRRIGATION DISTRICT HAS BEEN GRANTED AN EXCLUSIVE EASEMENT FOR ITS USE AND DISPOSITION. THE PUBLIC UTILITY EASEMENT (PUE) MAY BE PERMITTED TO OVERLAP THE SOUTH SAN JOAQUIN IRRIGATION DISTRICT EASEMENT EITHER ABOVE OR BELOW GROUND WHERE WRITTEN PERMISSION OF SOUTH SAN JOAQUIN IRRIGATION DISTRICT IS OBTAINED PRIOR TO CONSTRUCTION AND AFTER WRITTEN APPLICATION. FURTHERMORE, TRANSFORMERS, PANEL BOXES, METER INSTALLATIONS, PULL BOXES, AND OTHER UTILITY COMPANY FACILITIES OF THE PUE OR ANY OTHER WHICH, IN ANYWAY ARE PERCEIVED BY SOUTH SAN JOAQUIN IRRIGATION DISTRICT AS OBSTRUCTION ITS EASY ACCESS AND/OR MAKING ITS EASEMENTS OR SYSTEMS MAINTAINABILITY, REPAIR, AND REPLACEMENT MORE COMPLEX AND COSTLY ARE PROHIBITED.

## GENERAL NOTES:

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER OR THE CITY OF MANTECA.
2. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS, WARNING SIGNS, LIGHTS AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY.
4. THE OFFICE OF THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY WORK. TELEPHONE (209) 239-8460
5. AT THE TIME WORK IS BEING PERFORMED, THE CONTRACTOR SHALL POSSESS A VALID, GENERAL ENGINEERING LICENSE OF A CLASS APPROPRIATE TO COVER THE WORK BEING DONE.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES. UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND BASED UPON AVAILABLE DATA. ANY UTILITIES EXPOSED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
7. THE CITY OF MANTECA OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED ON THESE IMPROVEMENT PLANS AND A 24 HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.
8. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. HE SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION AND SHALL NOTIFY UTILITIES FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATION OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
10. STREET SIGNS, TRAFFIC CONTROL SIGNS, AND PAVEMENT MARKINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS ESTABLISHED BY THE CITY ENGINEER.
11. WATER LINES SHALL BE CONSTRUCTED WITH AWWA C-900 AND C-905 DR 18 PVC PIPE UNLESS OTHERWISE NOTED ON PLANS.
12. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA, DEPARTMENT OF PUBLIC WORKS STANDARD PLANS AND SPECIFICATIONS; AND THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.
13. AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY OF MANTECA, DEPARTMENT OF PUBLIC WORKS, SAN JOAQUIN COUNTY, OR ANY OTHER APPLICABLE AGENCIES PRIOR TO COMMENCEMENT OF WORK WITHIN EXISTING CITY AND COUNTY RIGHT-OF-WAY.
14. ALL WATER LINES SHALL BE TESTED AND DISINFECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA'S STANDARD PLANS AND SPECIFICATIONS, PRIOR TO FINAL ACCEPTANCE.
15. AFTER CONSTRUCTION OF ALL IMPROVEMENTS, THE CONTRACTOR SHALL SUBMIT ONE SET OF REPRODUCIBLE "AS BUILT" PLANS. FINAL INVERT ELEVATIONS FOR SEWER AND STORM DRAIN LINES THAT ARE TO BE EXTENDED FOR FUTURE CONSTRUCTION SHALL ALSO BE SHOWN ON THE "AS BUILT" PLANS.
16. IF REQUIRED, THE CONTRACTOR SHALL DETERMINE THE PROPER WELL PLACEMENTS TO ADEQUATELY DEWATER THE AREA FOR TRENCHING.
17. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH, OR AN UNDERGROUND CLASSIFICATION FOR BORINGS, WHEN APPLICABLE.
18. ALL TRENCHES ON MAJOR AND COLLECTOR STREETS AND CROSS TRENCHES ON ALL STREETS SHALL BE PAVED WITH TEMPORARY PAVING THE SAME DAY THE PAVEMENT CUT IS MADE.
19. ASPHALT CONCRETE SHALL BE PLACED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50°F.
20. VALVE COVERS SHALL BE ADJUSTED TO FINAL GRADES BY THE PAVING CONTRACTOR.
21. DUST SHALL BE CONTROLLED AS PER SECTION 10 OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS AND THE CITY OF MANTECA'S SPECIFICATIONS.
22. CONSTRUCTION SHALL BE RESTRICTED TO THE HOURS OF 7:00 AM TO 8:00 PM ON WEEKDAYS. EXTENDED HOURS WHICH MAY INCLUDE SATURDAYS AND SUNDAYS MAY BE ALLOWED THROUGH PRIOR NOTICE TO ADJACENT RESIDENTS AND LANDOWNERS, AND PRIOR APPROVAL OF THE CITY FOR INFRASTRUCTURE CONSTRUCTION.
23. TOPOGRAPHIC INFORMATION WAS OBTAINED FROM FIELD SURVEY "AUSTIN ROAD, LINCOLN AVENUE, AIRPORT WAY SURVEY" PERFORMED BY O'DELL ENGINEERING DATED OCTOBER 2008.
24. PROJECT BENCHMARK:

    NAME: BENCHMARK #30

    DESCRIPTION: COUNTY BRASS DISK IN CONCRETE ON NORTH SIDE OF E. LOUISE AVE, 1985'± WEST OF AUSTIN ROAD.

    ELEVATION: 41.44'

## SPECIAL NOTES:

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO CONTROL TRAFFIC AS REQUIRED TO COMPLETE THE WORK. TRAFFIC CONTROLS SHALL CONFORM TO THE LATEST EDITION OF THE CALTRANS MANUAL OF TRAFFIC CONTROLS FOR MAINTENANCE AND WORK ZONES. PRIOR TO THE START OF ANY WORK, A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A STATE OF CALIFORNIA C-31 LICENSED CONTRACTOR AND SUBMITTED TO THE CITY AND CALTRANS FOR APPROVAL.
2. UTILITY HORIZONTAL LOCATIONS AND INVERTS ARE APPROXIMATE, CONTRACTOR SHALL POTHOLE TO VERIFY.
3. AT HORIZONTAL ANGLE POINT, INSTALL CHRISTY CONCRETE TRAFFIC VALVE BOX MODEL "G05" AND GRADE RING MODEL G05GR10, NO EQUAL. CUSTOM CAST IRON LID MODEL "G05C" WITH THE FOLLOWING LABEL "WATER BEND" WILL BE PROVIDED BY CITY. CONTRACTOR WILL BRING WATER PIPE TRACE WIRE INTO VALVE BOX.
4. CONTRACTOR SHALL INSTALL AIR RELEASE VALVE AT LOCATIONS PER FIELD INSPECTOR'S DIRECTION AND PER CITY STANDARD W-18.
5. UTILITY CROSSING, 1' MIN VERTICAL SEPARATION OR IF LESS THEN SPECIAL CONSTRUCTION METHODS APPLY, SEE PLANS.
6. CONTRACTOR TO SUPPLY TEMPORARY CONNECTION WATER MAIN EXTENSION AND INSTALL PER INSPECTOR'S DIRECTION AND CITY STANDARD W-3.
7. REPLACE IN-KIND STRIPPING, CURB, GUTTER AND TRAFFIC SIGNAL LOOPS THAT ARE DAMAGED DURING CONSTRUCTION.
8. AT PIPE ANGLE FITTINGS, CONTRACTOR TO INSTALL THRUST BLOCKS PER CITY STANDARD W4 AND W5 OR PIPE RESTRAINTS APPROVED BY ENGINEER.
9. ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTER LINE OF PIPE, UNLESS OTHERWISE NOTED.
10. DRIVEWAYS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH SAME MATERIALS OR BETTER.
11. DRIVEWAY ACCESS SHALL BE FULLY RESTORED AT END OF EACH WORK DAY.
12. ALL ABOVE GROUND RISERS SHALL BE LOCATED AT RIGHT-OF-WAY LINES. UTILITY VAULTS AND BOLLARDS SHALL BE LOCATED A MINIMUM OF 4 FEET FROM EDGE OF PAVEMENT.

REGISTERED PROFESSIONAL ENGINEER
FERNANDO ULLOA
No. 62736
EXP. 9-30-10
CIVIL
STATE OF CALIFORNIA

THE CITY OF MANTECA SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

| REVISIONS | |
|---|---|
| | |
| | |
| | |
| | |

APPROVED

8/21/09
DATE

FERNANDO ULLOA RCE 62736

CITY OF MANTECA
DEPARTMENT OF PUBLIC WORKS
1001 WEST CENTER STREET, MANTECA, CALIFORNIA 95337

| | |
|---|---|
| SCALE | AS SHOWN |
| DESIGNED | FU |
| DRAWN | AM |
| CHECKED | KC |
| DATE | MAY 2009 |

TITLE

# AUSTIN ROAD WATER MAIN PROJECT NOTES AND DETAILS

SHEET 2 OF 14 SHEETS