ATTACHMENT 2

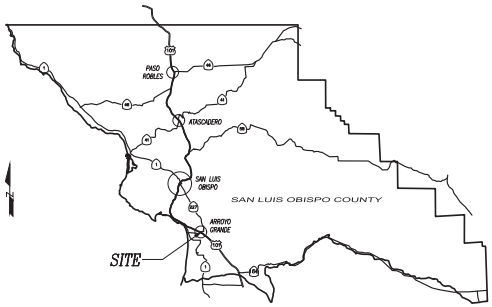
CITY OF ARROYO GRANDE

Construction Plans for

FAIR OAKS AVENUE WATER LINE REPLACEMENT PROJECT

PW 2023-05

MARCH 2023



VICINITY MAP

LOCATION MAP

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REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM:
mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

RECOMMENDED BY:
/ /
CIP MANAGER / STREETS / UTILITIES — DATE

ACCEPTED BY:
STEVEN B. KAHN, INTERIM CITY ENGINEER C42350 — DATE

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

TITLE SHEET

REFERENCE NO. PW 2023-05

SHEET: G-001
1 OF 11

DWG: Y:\Arroyo Grande\SAGO0001\Fair Oaks Water Line\SAGO0001-CAD\Plansets\G-001.dwg Layout Name: G-001 - Plotted by: Timothy Melville Date: 3/8/2023 - 12:48 PM
XREFS: G-BASE-TSR - BASE; AC - Water Replacement - F-A;AERIAL;Xp;

STANDARD CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE A COPY OF THESE APPROVED PLANS ON-SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE MOST CURRENT VERSION OF THE CITY OF ARROYO GRANDE STANDARD SPECIFICATIONS AND ENGINEERING STANDARDS.
3. NO MATERIALS OR EQUIPMENT SHALL BE STOCKPILED WITHIN THE CITY OF ARROYO GRANDE'S RIGHT-OF-WAY.OR NO WORK SHALL BE PERFORMED WITHIN THE CITY RIGHT OF WAY WITHOUT AN ENCROACHMENT PERMIT.
4. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWO WORKING DAYS PRIOR TO THE BEGINNING OF THE OPERATIONS AUTHORIZED BY THE PERMIT, TWO WORKING DAYS BEFORE THE PROJECT IS READY FOR FINAL INSPECTION, AND ONE COMPLETE WORKING DAY PRIOR TO ANY OTHER INSPECTION OR TESTING REQUESTED BY THE CONTRACTOR/APPLICANT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING UNDERGROUND SERVICE ALERT (USA) AT 811 A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING OF OPERATION AND RENEW AS NEEDED.
6. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR SAFETY OF THE JOBSITE AND THE CONSTRUCTION WORK. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. THE CITY INSPECTOR MAY NOTIFY THE CONTRACTOR OF ANY UNSAFE CONDITIONS THAT MAY BE OBSERVED, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY TAKING ALL SUCH MEASURES AS WILL CORRECT THE UNSAFE CONDITION.
7. INDEMNIFICATION - THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE CONDITION OF THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING THE 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 HARMLESS, THE CITY AND ITS EMPLOYEES AND OFFICERS FOR ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE CONSTRUCTION OF THE PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY IN THE VICINITY OF HIS WORK, AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. THE CONTRACTOR SHALL REPLACE OR REPAIR TO ITS ORIGINAL CONDITION, ALL IMPROVEMENTS OR PROPERTY, WHICH IS DAMAGED OR REMOVED (UNLESS DESIGNATED FOR REMOVAL ON THE PLANS) AS A RESULT OF HIS OPERATIONS.
9. THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS IF REQUIRED CONSTRUCTION WORK DIFFERS FROM THAT SHOWN ON THE PLANS, THE WORK SHALL BE REPORTED TO THE CITY INSPECTOR. THE CITY SHALL APPROVE CHANGES TO THE APPROVED PLANS PRIOR TO PROCEEDING WITH THE CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL CHANGES FROM THE CONSTRUCTION AS SHOWN ON THESE PLANS AND SPECIFICATION FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.
11. HOURS OF WORK - WORKING HOURS MUST CONFORM TO STANDARD SPECIFICATIONS SECTION 5-1.01. THE CONTRACTOR SHALL RESTRICT ACTIVITIES TO CONTROL OF THE SITE, MAINTAINING SAFETY, TRAFFIC CONTROL, EROSION CONTROL, DUST CONTROL AND SIMILAR ACTIVITIES ANY TIME OUTSIDE OF CITY BUSINESS HOURS AND ON CITY HOLIDAYS.
12. COMPACTION TESTING - COMPACTION TEST SHALL PERFORMED BY A LICENSED SOILS ENGINEER PROVIDED BY THE CITY WHERE SPECIFIED AND WHERE REQUIRED BY THE CITY INSPECTOR. AT A MINIMUM, COMPACTION TESTS SHALL BE PERFORMED IN THE FOLLOWING AREAS:

A.	PAVEMENT SUB GRADE SPACING	TEST AT 250 FEET MINIMUM
B.	PAVEMENT BASE LAYER SPACING	TEST AT 250 FEET MINIMUM
C.	TRENCH BACKFILL SPACING	TEST AT 250 FEET MINIMUM
D.	MAIN, LATERALS, SERVICE TRENCHES	TRENCHES WITH LESS THAN FOUR FEET OF COVER DEPTH REQUIRE ONE SET OF TESTS. TRENCHES OVER FOUR FEET OF DEPTH REQUIRE AN ADDITIONAL SET OF TESTS FOR EACH ADDITIONAL FOUR FEET OF COVER.

14. EXISTING UNDERGROUND FACILITIES - THE LOCATIONS AND ELEVATIONS OF EXISTING CITY UNDERGROUND FACILITIES, WHERE SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS, AND MAY NOT ACCURATELY REFLECT THE ACTUAL LOCATION OR ELEVATION. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATION OR HAVING LOCATED ALL EXISTING UNDERGROUND UTILITIES AND OTHER FACILITIES AND FOR PROTECTING THE SAME DURING THE COURSE OF THE PROJECT. ANY DEVIATIONS FROM THE LOCATIONS SHOWN ON THE PLAN SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND CITY INSPECTOR.

SURVEY DATA:

1. MAPPING SURVEY WAS NOT CONDUCTED. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING BY A LICENSED LAND SURVEYOR OR QUALIFIED REGISTER CIVIL ENGINEER.
2. EASEMENTS, OFFERS, LICENSES, RIGHTS, RESTRICTIONS AND/OR INTERESTS AFFECTING THESE PROPERTIES MAY EXIST BY MAY NOT BE SHOWN ON THIS MAP.

STANDARD ASBESTOS CEMENT PIPE DEMOLITION NOTES:

1. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE CITY CERTIFYING THAT ALL EMPLOYEES HANDLING AC PIPE HAVE RECEIVED TRAINING REQUIRED BY OSHA.
2. CUTTING OF EXISTING ASBESTOS CEMENT (TRANSITE) PIPE SHALL BE ACCOMPLISHED BY BREAKING OR SNAPPING WITH CHAIN CUTTER OR EQUIVALENT. USE OF POWER DRIVEN ABRASIVE SAWS OR OTHER EQUIPMENT WHICH MAY CREATE HAZARDOUS ASBESTOS DUST CONDITIONS WHILE CUTTING, IS STRICTLY PROHIBITED.
3. PIPE SHALL BE COMPLETELY DOUBLE WRAPPED WITH 6 MIL POLYETHYLENE AND 10 MIL PVC TAPE ON BOTH ENDS PRIOR TO TRANSPORT TO DISPOSAL SITE.
4. NONFRIABLE ASBESTOS CEMENT PIPE SHALL BE HANDLED, TRANSPORTED, AND DISPOSED OF IN A WAY THAT PREVENTS IT FROM BECOMING FRIABLE AND RELEASING ASBESTOS FIBERS. DO NOT SHATTER, CRUMBLE, PULVERIZE, SAND, CHIP, ABRADE, CRUSH, BREAK, OR GRIND AC PIPE.
5. NONFRIABLE AC PIPE SHALL BE DISPOSED OF AT A LANDFILL THAT IS STATE APPROVED TO ACCEPT ASBESTOS WASTE. LANDFILLS MAY REQUIRE SPECIAL PACKAGING AND LABELING IN ORDER TO ACCEPT AC PIPE. PIPE SHALL BE REMOVED FROM PROJECT SITE ON DAY OF REMOVAL.

STANDARD EXCAVATION NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF ARROYO GRANDE MUNICIPAL CODE CHAPTER 13.24 "EXCAVATION, GRADING, EROSION AND SEDIMENT CONTROL" AND THE CITY OF ARROYO GRANDE'S STANDARD SPECIFICATIONS. WHERE CONFLICTS ARISE, THE MORE STRINGENT REQUIREMENT SHALL BE IMPOSED.
2. ALL TRENCHING AND SHORING WORK SHALL CONFORM TO THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), TECHNICAL MANUAL SECTION V, CHAPTER 2 "HAZARD RECOGNITION IN TRENCHING AND SHORING" AND ALL OTHER APPLICABLE STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING UNDERGROUND SERVICE ALERT (USA) AT 811 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO BEGINNING OPERATION.
4. IN THE EVENT THAT DURING GRADING, CONSTRUCTION OR DEVELOPMENT OF THE PROJECT, ARCHAEOLOGICAL RESOURCE ARE UNCOVERED, ALL WORK SHALL BE HALTED UNTIL THE CITY HAS REVIEWED THE RESOURCES FOR THE SIGNIFICANCE. IF HUMAN REMAINS (BURIALS) ARE ENCOUNTERED, THE COUNTY CORONER (805-781-4513) SHALL BE CONTACTED IMMEDIATELY.

STANDARD WATER NOTES:

1. WATER SYSTEM TESTING MUST COMPLY WITH THE CITY OF ARROYO GRANDE'S STANDARD SPECIFICATION SECTION 77-2.03J. THE TESTING MUST BE DONE BY CONTRACTOR, AND OBSERVED BY THE CITY INSPECTOR. THE INSPECTOR SHALL BE GIVEN A 24-HOUR NOTICE IN ADVANCE OF ANY TESTS. THE CITY WILL COLLECT ALL SAMPLES AND PERFORM ALL TESTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ADDITIONAL TESTING IF FIRST SET FAILS.

GENERAL SEQUENCE NOTES:

1. SUBMIT A CONSTRUCTION SCHEDULE FOR APPROVAL BY THE CITY A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF CONSTRUCTION.
2. CONSTRUCT NEW 8 INCH DR18 C900 PVC WATER MAIN WHILE MAINTAINING EXISTING WATER MAIN IN SERVICE AT ALL TIMES.
3. CONSTRUCT NEW FIRE HYDRANT AND WATER SERVICES FOR NEW WATER MAIN TO EXISTING WATER METERS WHERE SHOWN ON DRAWINGS.
4. PRESSURE TEST AND DISINFECT NEW WATER MAIN PER CITY STANDARD SPECIFICATION SECTION 77-2.03J, RESPECTIVELY. TEST PRESSURE SHALL BE 1.5 TIMES WORKING PRESSURE.
5. COORDINATE WITH CITY A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO PLANNED TIE-OVER ACTIVITIES. TIE-OVER ACTIVITIES WILL INCLUDE SHUT DOWN AND ABANDONMENT OF THE EXISTING WATER MAIN, COMPLETE TIE-IN AT CONNECTION POINTS, AND CONNECTION OF SERVICE LINES TO EXISTING WATER METERS. CONTRACTOR TO HAVE ALL MATERIALS ON SITE PRIOR TO TIE-OVER ACTIVITIES.

STANDARD TRAFFIC CONTROL/TRAFFIC STRIPING NOTES:

1. ALL TRAFFIC CONTROL SHALL BE IN PLACE PRIOR TO ENCROACHING INTO ANY STREETS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS TO THE CITY FOR REVIEW AND APPROVAL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE FHWA'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS AMENDED FOR USE IN CALIFORNIA.
3. ALL STRIPING MUST COMPLY WITH THE CITY OF ARROYO GRANDE'S STANDARD SPECIFICATIONS.
4. CONTRACTOR TO PLACE AND MAINTAIN CHANGEABLE MESSAGE SIGNS (CMS) AT EACH END OF PROJECT LIMITS TO CONVEY CONSTRUCTION DATES, HOURS THAT LANE CLOSURE/DELAYS CAN BE EXPECTED AND CONTRACTOR CONTACT INFORMATION. CMS SIGNS MUST BE PLACED 72-HOURS PRIOR TO ENCROACHING INTO ANY STREETS.
5. CONTRACTOR TO COORDINATE WITH LOCAL TRANSIT AND TRASH SERVICES TO FACILITATE RELOCATION OF BUS STOPS AND CONTINUED TRASH COLLECTION DURING CONSTRUCTION.

ABBREVIATIONS:

ABDN	ABANDON	FL	FLOW LINE
AC	ASPHALT CONCRETE	FM	FORCE MAIN
AC	ASBESTOS CEMENT	FS	FINISHED SURFACE
BC	BEGINNING OF CURVE	GB	GRADE BREAK
BOW	BACK OF WALK	HDPE	HIGH DENSITY POLYETHYLENE
BVC	BEGINNING OF VERTICAL CURVE	HPG	HIGH PRESSURE GAS
C.B.	CATCH BASIN	J.B.	JUNCTION BOX
CI	CAST IRON	INV.	INVERT
CTR.	CENTER	N	NEW
℄	CENTERLINE	PH	POTHOLE
COR	CORNER	PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DIPS	DUCTILE IRON PIPE SIZE	RCP	REINFORCE CONCRETE PIPE
DR	DIMENSION RATIO	RG	ROUGH GRADE
E	EXISTING	SSCO	SANITARY SEWER CLEAN-OUT
EC	END OF CURVE	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	TC	TOP OF CURB
EVC	END VERTICAL CURVE	TD	TOP OF DIKE
EG	EXISTING GRADE	TW	TOP OF WALL
FG	FINISHED GRADE	VCP	VITRIFIED CLAY PIPE
FH	FIRE HYDRANT		

LEGEND:

—x—x—x—	FENCE
	EDGE OF PAVEMENT
	ROAD CENTERLINE
SD18	STORM DRAIN LINE & SIZE
OE	OVERHEAD ELECTRICAL LINE
E E E	UNDERGROUND ELECTRICAL LINE
SS6	SANITARY SEWER LINE & SIZE
G G G	GAS LINE
W6AC	WATER LINE, SIZE & TYPE
	NEW PIPELINE CENTERLINE
UE	UNDERGROUND ELECTRICAL
TEL TEL TEL	UNDERGROUND TELEPHONE

	DROP INLET AT CURB		RETAINING WALL
	DROP INLET	PGE	PG&E BOX
SD	STORM DRAIN MANHOLE	GM	GAS METER
FH	FIRE HYDRANT	TEL	TELEPHONE BOX
W	WATER WELL	SIG	SIGNAL BOX
	WATER VALVE	CATV	CABLE T.V. BOX
WM	WATER METER	ELEC	ELECTRIC BOX
S	SEWER MANHOLE	T	TELEPHONE MANHOLE
CO	SEWER CLEANOUT		STREET LIGHT
	MONITORING WELL	JP	JOINT POLE
P#	POTHOLE LOCATION	PP	POWER POLE
			GUY WIRE

AGENCY / UTILITY CONTACTS

	CONTACT	PHONE NUMBER
CITY OF ARROYO GRANDE - INTERIM CITY ENGINEER	STEVE KAHN	(805) 473-5441
CITY OF ARROYO GRANDE - UTILITIES MANAGER	SHANE TAYLOR	(805) 473-5464
CITY OF ARROY GRANDE - UTILITY SUPERVISOR	TIM SCHMIDT	(805) 473-5460
CHARTER COMMUNICATIONS	TIM LINDSAY	(805) 783-4950
AT&T	DAVID WHITEHEAD	(805) 546-7389
THE GAS COMPANY	JASON LEWIS	(805) 681-7939
P.G.& E.	BUILDING AND RENOVATION	(877) 743-7782

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM: mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

REFERENCE NO. PW 2023-05

CONSTRUCTION NOTES, TRAFFIC CONTROL NOTES, ABBREVIATIONS, AND LEGEND

SHEET: G-002
2 OF 11

DWG: N:\Arroyo Grande\AG-2021-003 Fair Oaks Water Line\300 Engineering\301 CAD\Plansets\G-002.dwg Layout Name: G-002 - Plotted by: Timothy McHale Date: 3/8/2023 - 12:47 PM
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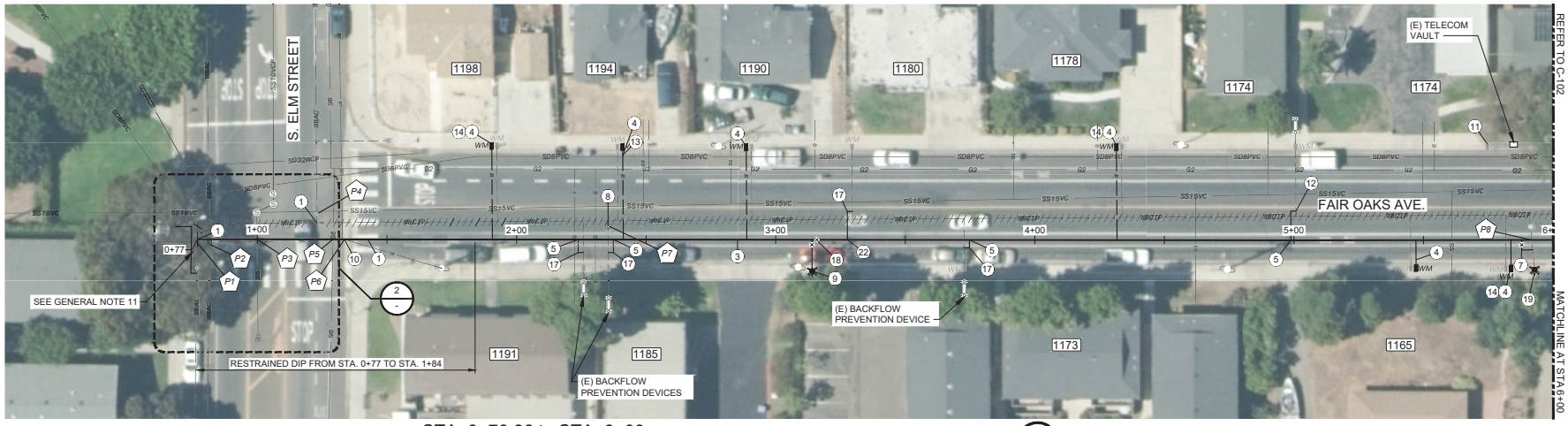


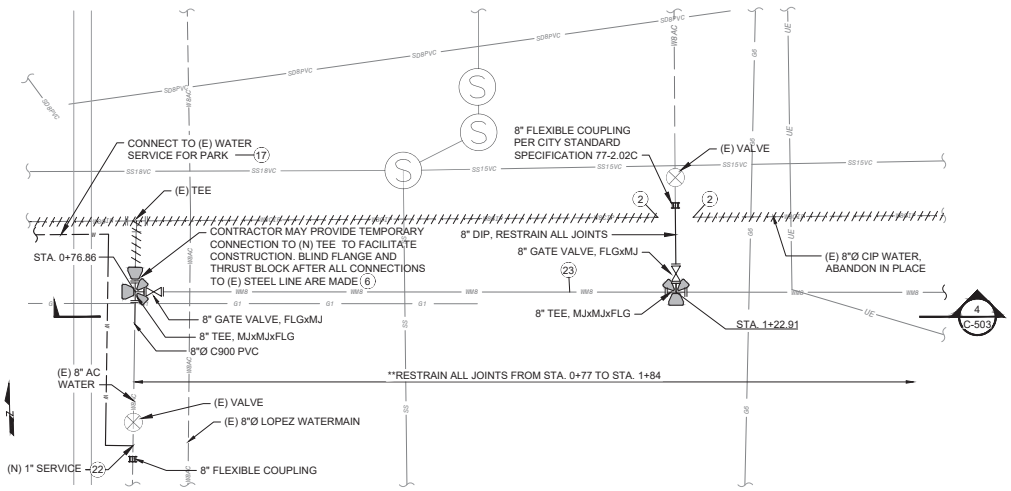
0 20' 40'
1" = 20'

NOTE: POTHOLE DATA OBTAINED BY CITY, MEASUREMENTS PROVIDE IN POTHOLE DATA TABLE ON SHEET C-504.

STA. 0+76.86 to STA. 6+00

SCALE: 1" = 20'

(1 / -)



CONNECTION DETAIL - STA. 0+76.86

SCALE: 1" = 5'

(2 / -)

CONSTRUCTION NOTES:

ITEM	DESCRIPTION
1	POTHOLE EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. SUBMIT WRITTEN REPORT TO ENGINEER INDICATING HORIZONTAL AND VERTICAL LOCATION OF UTILITIES
2	REMOVE (E) PIPE TO EXTENTS NECESSARY TO PLACE CONCRETE PLUG PER DETAIL (3 / C-503) ABANDON REMAINING EXISTING WATER LINES IN PLACE.
4	NEW 1" WATER SERVICE AND METER BOX PER DETAIL (2 / C-503)
5	NEW 2" WATER SERVICE PER CITY STANDARD DRAWING 6230.
6	CAP WITH MJxFLG ADAPTER AND BLIND FLANGE. PROVIDE THRUST BLOCK PER CITY STANDARD DRAWING 6440. THRUST BLOCK AREA TO EXTEND INTO NATIVE SOILS BEYOND TRENCH AREA. EXISTING TRENCH WILL NOT BE INCLUDED IN TOTAL REQUIRED THRUST BLOCK AREA.
7	CONTRACTOR TO VERIFY SIZE AND MATERIAL OF EXISTING LATERAL PRIOR TO ORDERING MATERIALS. INSTALL HYDRANT REFLECTOR PER CITY STANDARD DRAWING 7820. CURB TO BE PAINTED RED PER CITY STANDARD DRAWING 7420.
8	ABANDON EXISTING VALVE PER DETAIL (1 / C-503)
9	FURNISH AND INSTALL NEW FIRE HYDRANT ASSEMBLY PER CITY STANDARD DRAWING 6310. LOCATION TO BE REVIEWED AND APPROVED BY CITY.
10	REMOVE AND REPLACE CROSS GUTTER TO EXTENTS NECESSARY TO FACILITATE CONSTRUCTION.
11	REMOVE AND DISPOSE OF ABANDONED WATER METER BOX. BACKFILL WITH CLASS 3 AGGREGATE AND POUR 4" CONCRETE PER CITY STANDARD DRAWING 4110.
12	CONNECT NEW SERVICE LINE TO (E) SERVICE LINE DOWNSTREAM OF (E) VALVE.
13	3' WIDE SIDEWALK REMOVAL AND REPLACEMENT PER DETAIL (2 / C-503)
14	SEE SHEET C-401 FOR SIDEWALK REMOVAL AND RESTORATION LIMITS.
17	RECONNECT TO (E) SERVICE LINE IN STREET WITH ROMAC 511 COUPLER OR APPROVED EQUAL.
18	8" INLINE GATE VALVE PER CITY STANDARDS.
19	REMOVE AND DISPOSE OF (E) FIRE HYDRANT. INSTALL NEW FIRE HYDRANT PER CITY STANDARD DRAWING 6310
22	NEW 1" WATER SERVICE PER CITY STANDARD 6210
23	8" DIP WATERLINE LOWERING PER CITY STANDARD DRAWING 6210

GENERAL NOTES:

1. EXISTING WATER, SEWER, AND GAS SERVICE LATERAL LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING SERVICES AND UTILITIES.
2. EXISTING 8"Ø WATER MAIN IS LIVE AND IS TO BE ABANDONED FOLLOWING PRESSURE TESTING, DISINFECTION, AND ACCEPTANCE BY CITY OF NEW PVC WATER MAIN, APPURTENANCES, AND SERVICE LATERALS.
3. PROVIDE TRAFFIC CONTROL PER CITY STANDARD SPECIFICATIONS.
4. ASPHALT CONCRETE SHALL BE REPLACED PER CITY STANDARD DRAWING 4915. NO LONGITUDINAL SEAMS ARE ALLOWED IN BIKE LANE. REPAVE AND RESTRIPE ENTIRE WIDTH OF BIKE LANE.
5. REPAIR CONCRETE CURB, GUTTER AND SIDEWALK WHERE REQUIRED TO FACILITATE CONSTRUCTION PER CITY STANDARD DRAWINGS 4030, 4110, AND 4310. IF CUT IS WITHIN TWO FEET OF A GROOVE OR JOINT, REMOVE AND REPLACE THE ENTIRE SECTION.
6. RESTORE LANDSCAPING, FENCING, AND OTHER IMPROVEMENTS IN KIND WHERE REMOVAL OR MODIFICATION IS REQUIRED TO FACILITATE CONSTRUCTION.
7. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES PER CITY STANDARD DRAWING 6340
8. SITE SOILS MAY BE LOOSE AND CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT TRENCH WALLS FROM SLOUGHING.
9. DEMOLISHED PAVEMENT, STRIPING, AND MARKINGS SHALL BE REPLACED IN KIND PER CITY STANDARD SPECIFICATIONS.
10. 8"Ø PVC STORM DRAIN IN NORTH SIDE OF STREET HAS 18" OF COVER AND IS ENCASED IN SLURRY.
11. TRENCHING WITHIN DRIP LINE SHALL BE BY HAND PER STANDARD SPECIFICATION 77-103A(2)(g).

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM:
mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

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JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
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SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

WATER PLAN AND DETAILS
STA. 0+76.86 to STA. 6+00

REFERENCE NO. PW 2023-05

SHEET: C-101
3 OF 11

DWG: W:\mkn-Civil\ARG\2021\01-Fair Oaks Water\Project\01 CAD\Plansets\C-101 to C-104.dwg Layout Name: C-101 - Plotted by: Timothy Kostak Date: 3/8/2023 - 1:28 PM
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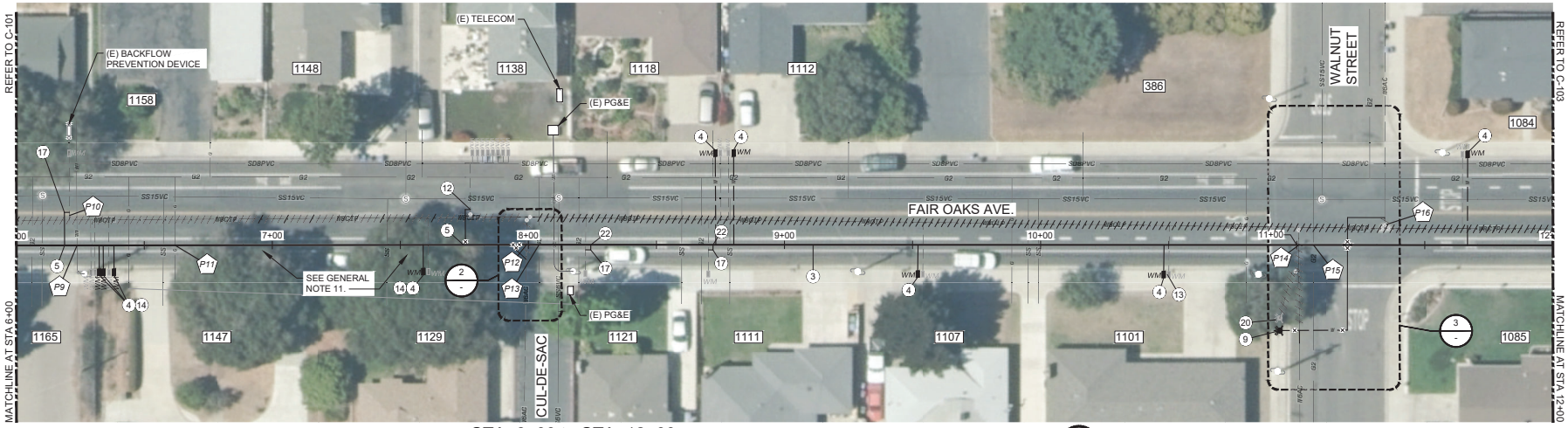


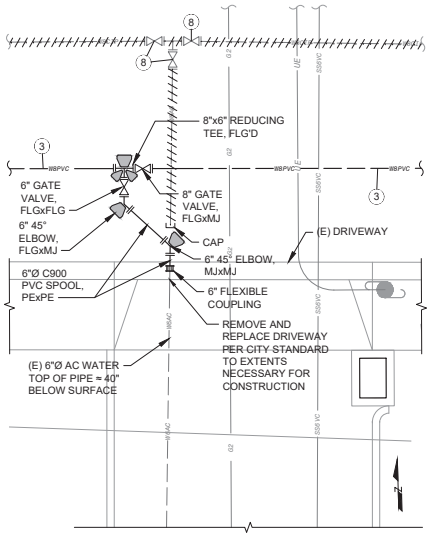
STA. 6+00 to STA. 12+00 (1 / -)

SCALE: 1" = 20'

0 20' 40'

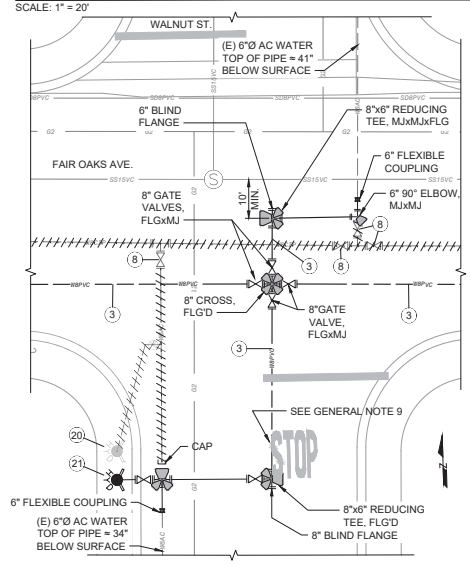
1" = 20'

NOTE: POTHOLE DATA OBTAINED BY CITY, MEASUREMENTS PROVIDE IN POTHOLE DATA TABLE ON SHEET C-504.



CUL-DE-SAC CONNECTION (2 / -)

SCALE: 1" = 5'



WALNUT STREET CONNECTION (3 / -)

SCALE: 1" = 10'

CONSTRUCTION NOTES:

ITEM	DESCRIPTION
1	POTHOLE EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. SUBMIT WRITTEN REPORT TO ENGINEER INDICATING HORIZONTAL AND VERTICAL LOCATION OF UTILITIES
2	REMOVE (E) PIPE TO EXTENTS NECESSARY TO PLACE CONCRETE PLUG PER DETAIL (3 / C-503) ABANDON REMAINING EXISTING WATER LINES IN PLACE.
3	8"Ø DR18 C900 PVC WATERLINE WITH MINIMUM COVER OF 4.5-FEET. PLACE WATERLINE CENTERED IN SOUTHERN BIKE LANE. TRENCH BACKFILL PER DETAIL (1 / C-501)
4	NEW 1" WATER SERVICE PER DETAIL (2 / C-503)
5	NEW 2" WATER SERVICE PER CITY STANDARD DRAWING 6230.
6	CAP WITH MJxFLG ADAPTER AND BLIND FLANGE. PROVIDE THRUST BLOCK PER CITY STANDARD DRAWING 6440. THRUST BLOCK AREA TO EXTEND INTO NATIVE SOILS BEYOND TRENCH AREA. EXISTING TRENCH WILL NOT BE INCLUDED IN TOTAL REQUIRED THRUST BLOCK AREA.
8	ABANDON EXISTING VALVE PER DETAIL
11	REMOVE AND DISPOSE OF ABANDONED WATER METER BOX. BACKFILL WITH CLASS 3 AGGREGATE AND POUR 4" CONCRETE PER CITY STANDARD DRAWING 4110.
12	CONNECT NEW SERVICE LINE TO (E) SERVICE LINE DOWNSTREAM OF (E) VALVE.
13	3' WIDE SIDEWALK REMOVAL AND REPLACEMENT PER DETAIL (2 / C-503)
14	SEE SHEET C-401 FOR SIDEWALK REMOVAL AND RESTORATION LIMITS.
17	RECONNECT TO (E) SERVICE LINE IN STREET WITH ROMAC 511 COUPLER OR APPROVED EQUAL.
20	REMOVE AND SALVAGE EXISTING HYDRANT. CUT RISER 2' BELOW GRADE AND BACKFILL WITH CLASS 3 CONCRETE. REPAIR SIDEWALK PER CITY STANDARD DRAWING 4110.
21	INSTALL SALVAGE FIRE HYDRANT PER CITY STANDARD DRAWING 6310. LOCATION TO BE REVIEWED AND APPROVED BY CITY.
22	NEW 1" WATER SERVICE PER CITY STANDARD 6210

GENERAL NOTES:

1. EXISTING WATER, SEWER, AND GAS SERVICE LATERAL LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING SERVICES AND UTILITIES.
2. EXISTING 8"Ø WATER MAIN IS LIVE AND IS TO BE ABANDONED FOLLOWING PRESSURE TESTING, DISINFECTION, AND ACCEPTANCE BY CITY OF NEW PVC WATER MAIN, APPURTENANCES, AND SERVICE LATERALS.
3. PROVIDE TRAFFIC CONTROL PER CITY STANDARD SPECIFICATIONS.
4. ASPHALT CONCRETE SHALL BE REPLACED PER CITY STANDARD DRAWING 4915. NO LONGITUDINAL SEAMS ARE ALLOWED IN BIKE LANE. REPAVE AND RESTRIPE ENTIRE WIDTH OF BIKE LANE.
5. REPAIR CONCRETE CURB, GUTTER AND SIDEWALK WHERE REQUIRED TO FACILITATE CONSTRUCTION PER CITY STANDARD DRAWINGS 4030, 4110, AND 4310. IF CUT IS WITHIN TWO FEET OF A GROOVE OR JOINT, REMOVE AND REPLACE THE ENTIRE SECTION.
6. RESTORE LANDSCAPING, FENCING, AND OTHER IMPROVEMENTS IN KIND WHERE REMOVAL OR MODIFICATION IS REQUIRED TO FACILITATE CONSTRUCTION.
7. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES PER CITY STANDARD DRAWING 6340
8. SITE SOILS MAY BE LOOSE AND CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT TRENCH WALLS FROM SLOUGHING.
9. DEMOLISHED PAVEMENT, STRIPING, AND MARKINGS SHALL BE REPLACED IN KIND PER CITY STANDARD SPECIFICATIONS.
10. 8"Ø PVC STORM DRAIN IN NORTH SIDE OF STREET HAS 18" OF COVER AND IS ENCASED IN SLURRY.
11. TRENCHING WITHIN DRIP LINE SHALL BE BY HAND PER STANDARD SPECIFICATION 77-103A(2)(g).

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM:

mkn

P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:

JOSEPH J. REICHMUTH, PE

SCALE:

HORIZ. AS SHOWN

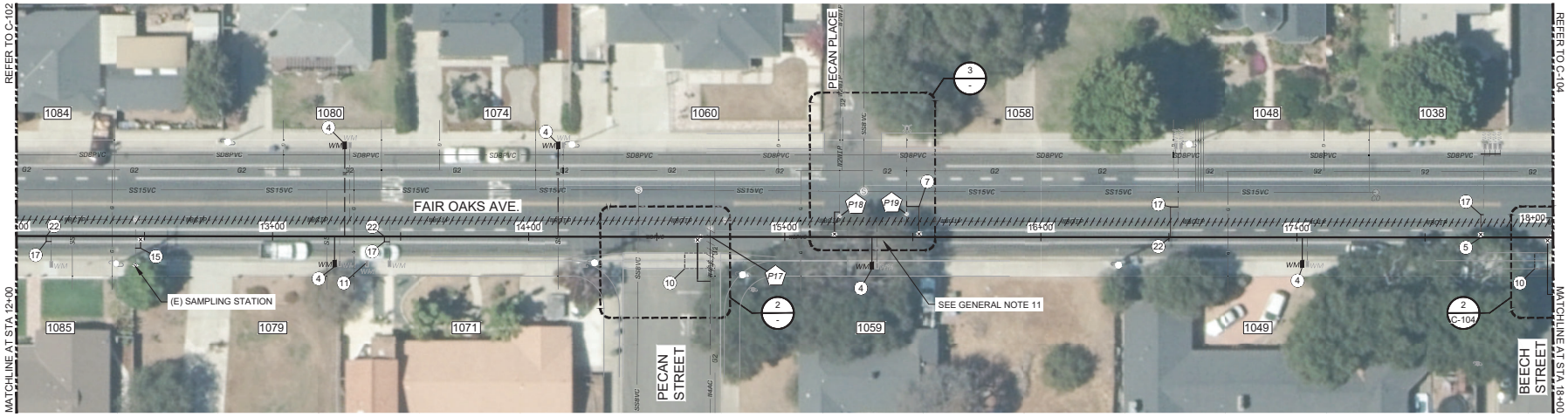
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

WATER PLAN AND DETAILS
STA. 6+00 to STA. 12+00

REFERENCE NO. PW 2023-05

SHEET: C-102
4 OF 11

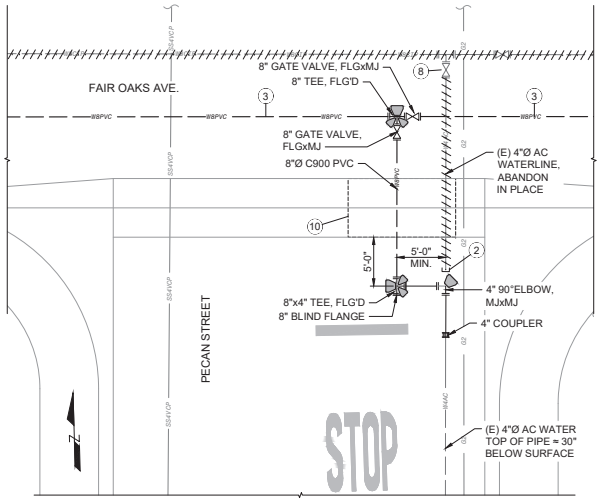


0 20' 40'
1" = 20'

NOTE: POTHOLE DATA OBTAINED BY CITY, MEASUREMENTS PROVIDE IN POTHOLE DATA TABLE ON SHEET C-504.

STA. 12+00 to STA. 18+00 (1 / -)

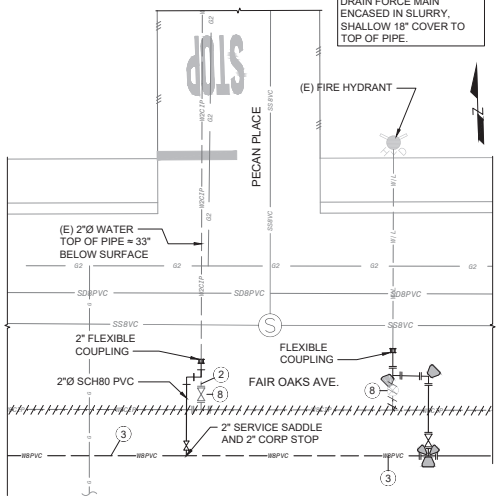
SCALE: 1" = 20'



PECAN STREET CONNECTION (2 / -)

SCALE: 1" = 6'

NOTE: (E) 8"Ø C900 STORM DRAIN FORCE MAIN ENCASED IN SLURRY, SHALLOW 18" COVER TO TOP OF PIPE.



PECAN PLACE CONNECTION (3 / -)

SCALE: 1" = 8'

CONSTRUCTION NOTES:

ITEM	DESCRIPTION
1	POTHOLE EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. SUBMIT WRITTEN REPORT TO ENGINEER INDICATING HORIZONTAL AND VERTICAL LOCATION OF UTILITIES
2	REMOVE (E) PIPE TO EXTENTS NECESSARY TO PLACE CONCRETE PLUG PER DETAIL (3 / C-503) ABANDON REMAINING EXISTING WATER LINES IN PLACE.
3	8"Ø DR18 C900 PVC WATERLINE WITH MINIMUM COVER OF 4.5-FEET. PLACE WATERLINE CENTERED IN SOUTHERN BIKE LANE. TRENCH BACKFILL PER DETAIL (1 / C-501)
4	NEW 1" WATER SERVICE PER DETAIL (2 / C-503)
5	NEW 2" WATER SERVICE PER CITY STANDARD DRAWING 6230
6	CAP WITH MJxFLG ADAPTER AND BLIND FLANGE. PROVIDE THRUST BLOCK PER CITY STANDARD DRAWING 6440. THRUST BLOCK AREA TO EXTEND INTO NATIVE SOILS BEYOND TRENCH AREA. EXISTING TRENCH WILL NOT BE INCLUDED IN TOTAL REQUIRED THRUST BLOCK AREA.
7	CONNECT TO EXISTING FIRE HYDRANT LATERAL. CONTRACTOR TO VERIFY SIZE AND MATERIAL OF EXISTING LATERAL PRIOR TO ORDERING MATERIALS. INSTALL HYDRANT REFLECTOR PER CITY STANDARD DRAWING 7820. CURB TO BE PAINTED RED PER CITY STANDARD DRAWING 7420. (1 / C-503)
8	ABANDON EXISTING VALVE PER DETAIL
10	REMOVE AND REPLACE CROSS GUTTER TO EXTENTS NECESSARY TO FACILITATE CONSTRUCTION.
11	REMOVE AND DISPOSE OF ABANDONED WATER METER BOX. BACKFILL WITH CLASS 3 AGGREGATE AND POUR 4" CONCRETE PER CITY STANDARD DRAWING 4110.
12	CONNECT NEW SERVICE LINE TO (E) SERVICE LINE DOWNSTREAM OF (E) VALVE. (2 / C-503)
13	3' WIDE SIDEWALK REMOVAL AND REPLACEMENT PER DETAIL
14	SEE SHEET C-401 FOR SIDEWALK REMOVAL AND RESTORATION LIMITS.
15	CONNECT TO EXISTING SAMPLING STATION WITHIN STREET. PROVIDE NEW 1" SERVICE PER CITY STANDARD DRAWING 6210 AND CONNECT TO EXISTING PIPE WITH ROMAC 511 OR APPROVED EQUAL.
17	RECONNECT TO (E) SERVICE LINE IN STREET WITH ROMAC 511 COUPLER OR APPROVED EQUAL.
22	NEW 1" WATER SERVICE PER CITY STANDARD 6210

GENERAL NOTES:

1. EXISTING WATER, SEWER, AND GAS SERVICE LATERAL LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING SERVICES AND UTILITIES.
2. EXISTING 8"Ø WATER MAIN IS LIVE AND IS TO BE ABANDONED FOLLOWING PRESSURE TESTING, DISINFECTION, AND ACCEPTANCE BY CITY OF NEW PVC WATER MAIN, APPURTENANCES, AND SERVICE LATERALS.
3. PROVIDE TRAFFIC CONTROL PER CITY STANDARD SPECIFICATIONS.
4. ASPHALT CONCRETE SHALL BE REPLACED PER CITY STANDARD DRAWING 4915. NO LONGITUDINAL SEAMS ARE ALLOWED IN BIKE LANE. REPAVE AND RESTRIPE ENTIRE WIDTH OF BIKE LANE.
5. REPAIR CONCRETE CURB, GUTTER AND SIDEWALK WHERE REQUIRED TO FACILITATE CONSTRUCTION PER CITY STANDARD DRAWINGS 4030, 4110, AND 4310. IF CUT IS WITHIN TWO FEET OF A GROOVE OR JOINT, REMOVE AND REPLACE THE ENTIRE SECTION.
6. RESTORE LANDSCAPING, FENCING, AND OTHER IMPROVEMENTS IN KIND WHERE REMOVAL OR MODIFICATION IS REQUIRED TO FACILITATE CONSTRUCTION.
7. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES PER CITY STANDARD DRAWING 6340
8. SITE SOILS MAY BE LOOSE AND CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT TRENCH WALLS FROM SLOUGHING.
9. DEMOLISHED PAVEMENT, STRIPING, AND MARKINGS SHALL BE REPLACED IN KIND PER CITY STANDARD SPECIFICATIONS.
10. 8"Ø PVC STORM DRAIN IN NORTH SIDE OF STREET HAS 18" OF COVER AND IS ENCASED IN SLURRY.
11. TRENCHING WITHIN DRIP LINE SHALL BE BY HAND PER STANDARD SPECIFICATION 77-103A(2)(g).

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM: mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

WATER PLAN AND DETAILS
STA. 12+00 to STA. 18+00

REFERENCE NO. PW 2023-05

SHEET: C-103
5 OF 11

DWG: W:\Arroyo Grande\06-2023\2023-05 Pecan Place Water\2023\Engineering\01 CAD\Plans\C-103 to C-104.dwg Layout Name: C-103 - Plotted by: Timothy Michalik Date: 3/8/2023 - 1:11 PM
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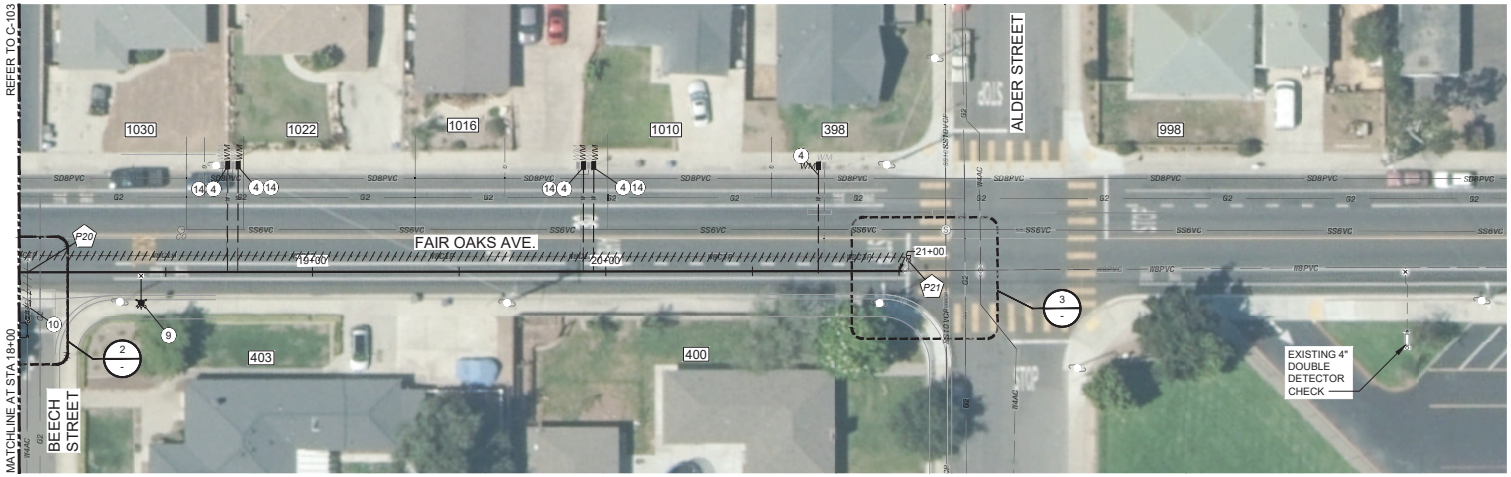
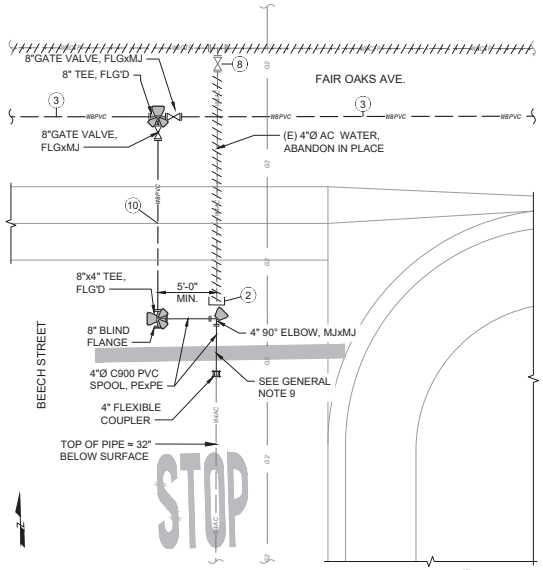
NOTE: POTHOLE DATA OBTAINED BY CITY, MEASUREMENTS PROVIDE IN POTHOLE DATA TABLE ON SHEET C-504.



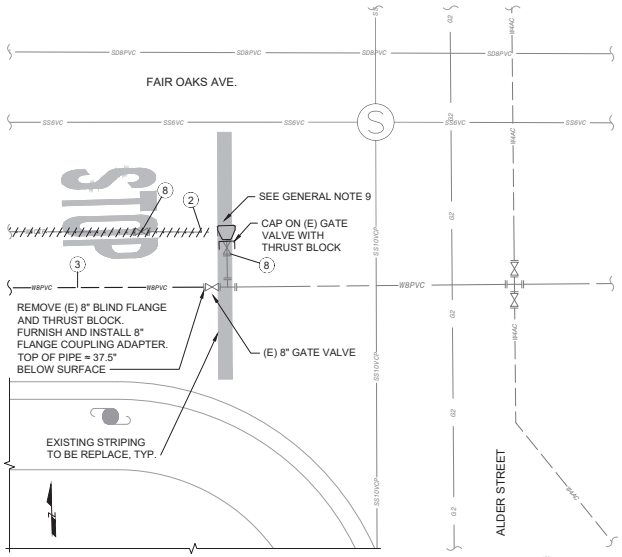
STA. 18+00 to STA. 21+00

SCALE: 1" = 20'



BEECH STREET CONNECTION

SCALE: 1" = 5'



ALDER INTERSECTION CONNECTION DETAIL

SCALE: 1" = 5'

CONSTRUCTION NOTES:

ITEM	DESCRIPTION
1	POTHOLE EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. SUBMIT WRITTEN REPORT TO ENGINEER INDICATING HORIZONTAL AND VERTICAL LOCATION OF UTILITIES
2	REMOVE (E) PIPE TO EXTENTS NECESSARY TO PLACE CONCRETE PLUG PER DETAIL 3/C-503. ABANDON REMAINING EXISTING WATER LINES IN PLACE.
3	8"Ø DR18 C900 PVC WATERLINE WITH MINIMUM COVER OF 4.5-FEET. PLACE WATERLINE CENTERED IN SOUTHERN BIKE LANE. TRENCH BACKFILL PER DETAIL 1/C-501
4	NEW 1" WATER SERVICE PER DETAIL 2/C-503
5	NEW 2" WATER SERVICE PER CITY STANDARD DRAWING 6230.
6	CAP WITH MJxFLG ADAPTER AND BLIND FLANGE. PROVIDE THRUST BLOCK PER CITY STANDARD DRAWING 6440. THRUST BLOCK AREA TO EXTEND INTO NATIVE SOILS BEYOND TRENCH AREA. EXISTING TRENCH WILL NOT BE INCLUDED IN TOTAL REQUIRED THRUST BLOCK AREA.
8	ABANDON EXISTING VALVE PER DETAIL 1/C-503
9	FURNISH AND INSTALL NEW FIRE HYDRANT ASSEMBLY PER CITY STANDARD DRAWING 6310. LOCATION TO BE REVIEWED AND APPROVED BY CITY.
10	REMOVE AND REPLACE CROSS GUTTER TO EXTENTS NECESSARY TO FACILITATE CONSTRUCTION.
11	REMOVE AND DISPOSE OF ABANDONED WATER METER BOX. BACKFILL WITH CLASS 3 AGGREGATE AND POUR 4" CONCRETE PER CITY STANDARD DRAWING 4110.
12	CONNECT NEW SERVICE LINE TO (E) SERVICE LINE DOWNSTREAM OF (E) VALVE.
13	3' SIDEWALK REMOVAL AND REPLACEMENT PER DETAIL 2/C-503
14	SEE SHEET C-401 FOR SIDEWALK REMOVAL AND RESTORATION LIMITS.

GENERAL NOTES:

1. EXISTING WATER, SEWER, AND GAS SERVICE LATERAL LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING SERVICES AND UTILITIES.
2. EXISTING 8"Ø WATER MAIN IS LIVE AND IS TO BE ABANDONED FOLLOWING PRESSURE TESTING, DISINFECTION, AND ACCEPTANCE BY CITY OF NEW PVC WATER MAIN, APPURTENANCES, AND SERVICE LATERALS.
3. PROVIDE TRAFFIC CONTROL PER CITY STANDARD SPECIFICATIONS.
4. ASPHALT CONCRETE SHALL BE REPLACED PER CITY STANDARD DRAWING 4915. NO LONGITUDINAL SEAMS ARE ALLOWED IN BIKE LANE. REPAVE AND RESTRIPE ENTIRE WIDTH OF BIKE LANE.
5. REPAIR CONCRETE CURB, GUTTER AND SIDEWALK WHERE REQUIRED TO FACILITATE CONSTRUCTION PER CITY STANDARD DRAWINGS 4030, 4110, AND 4310. IF CUT IS WITHIN TWO FEET OF A GROOVE OR JOINT, REMOVE AND REPLACE THE ENTIRE SECTION.
6. RESTORE LANDSCAPING, FENCING, AND OTHER IMPROVEMENTS IN KIND WHERE REMOVAL OR MODIFICATION IS REQUIRED TO FACILITATE CONSTRUCTION.
7. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES PER CITY STANDARD DRAWING 6340
8. SITE SOILS MAY BE LOOSE AND CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT TRENCH WALLS FROM SLOUGHING.
9. DEMOLISHED PAVEMENT, STRIPING, AND MARKINGS SHALL BE REPLACED IN KIND PER CITY STANDARD SPECIFICATIONS.
10. 8"Ø PVC STORM DRAIN IN NORTH SIDE OF STREET HAS 18" OF COVER AND IS ENCASED IN SLURRY.

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM: mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

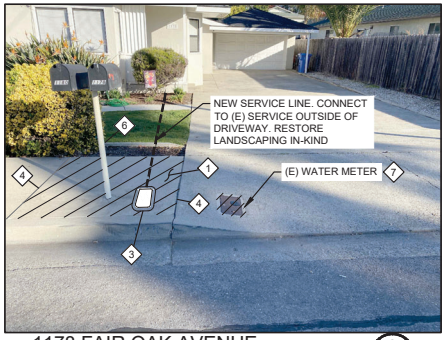
REFERENCE NO. PW 2023-05

WATER PLAN AND DETAILS
STA. 18+00 to STA. 21+00

SHEET: C-104
6 OF 11

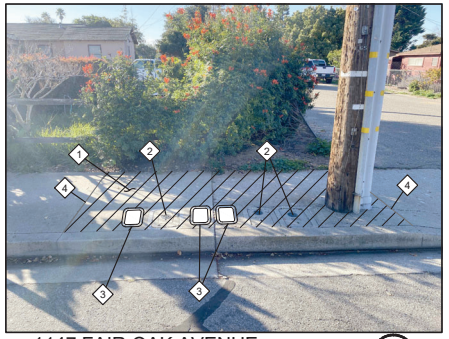
DWG: W:\Arroyo Grande\ARG00100\10-Design Work\100-Drawings\C-104 - Water Plan and Details.dwg Layout Name: C-104 - Plotted by: Timothy Michalik Date: 3/8/2023 - 1:12 PM
XREF'S: C-LP-C-ALIGN1 - C-ALIGN2 IMAGES: C-ALIGN.png

1198 FAIR OAK AVENUE (1)
NOT TO SCALE



1178 FAIR OAK AVENUE (2)
NOT TO SCALE

1165 FAIR OAK AVENUE (3)
NOT TO SCALE



1147 FAIR OAK AVENUE (4)
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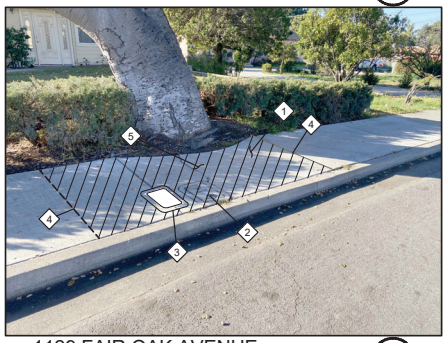

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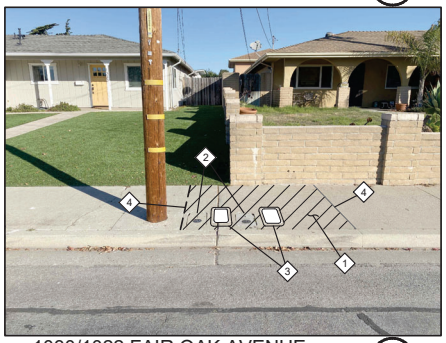
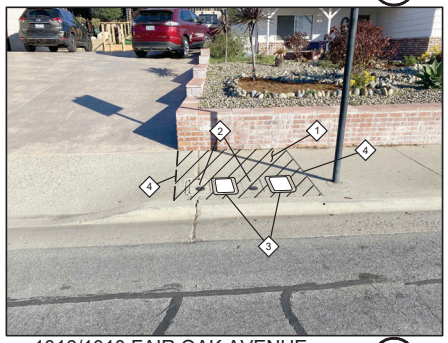


1030/1022 FAIR OAK AVENUE (6)
NOT TO SCALE



1016/1010 FAIR OAK AVENUE (7)
NOT TO SCALE

CONSTRUCTION NOTES

TAG	DESCRIPTION
1	REMOVE AND REPLACE EXISTING SIDEWALK PER CITY STANDARD DRAWING 4130. PROTECT EXISTING CURB AND GUTTER IN PLACE, UNLESS OTHERWISE SHOWN. MATCH EXISTING GRADES UNLESS OTHERWISE SHOWN.
2	REMOVE AND DIPSOSE OF EXISTING WATER METER BOX.
3	NEW WATER METER BOX PER CITY STANDARD DRAWING 6210.
4	SAWCUT LIMITS AT EXISTING SCORE LINES, UNLESS OTHERWISE SHOWN. CONCRETE CUTTING SHALL BE PER CITY STANDARD DRAWING 140-AG.
5	ADJUST FINISHED SIDEWALK LEVEL AT THIS LOCATION TO MATCH EXISTING ADJACENT SIDEWALK ELEVATION.
6	TEMPORARILY RELOCATE MAIL BOX
7	REMOVE ABANDONED WATER METER BOX. BACKFILL WITH CLASS 3 AGGREGATE AND POUR 4" CONCRETE PER CITY STANDARD DRAWING 4110

GENERAL NOTES:

1. COORDINATE WITH CITY PRIOR TO:
   a. REMOVAL OF EXISTING METER BOX;
   b. PLACEMENT OF NEW METER BOX;
   c. RE-CONNECTION OF WATER SERVICES TO CUSTOMERS
2. PROTECT ALL EXISTING PRIVATE PROPERTY IMPROVEMENTS IN PLACE.
3. RESTORE ANY DAMAGED IMPROVEMENTS TO PRE-CONSTRUCTION CONDITION OR BETTER.

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM:
mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL:
REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

WATER SERVICE DETAILS

REFERENCE NO. PW 2023-05

SHEET: C-401
7 OF 11

DWG: W:\MKN\JOBS\Projects\Arroyo Grande\2023\2023-Fy-Data\Water\Jobs\WSR\Drawings\WSR-CAD\Plans\CAD Files, LayoutName: C401, PlotStyle: Plot-by-Plot, Model, Date: 3/8/2023 - 1:13 PM
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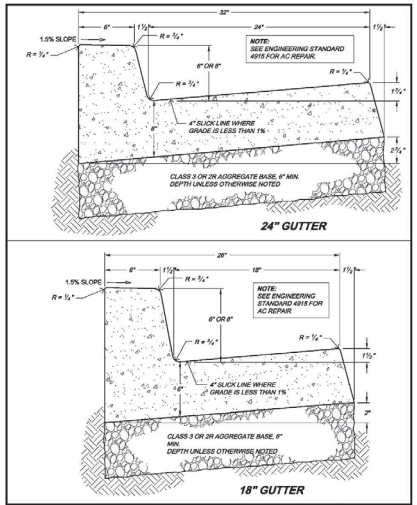
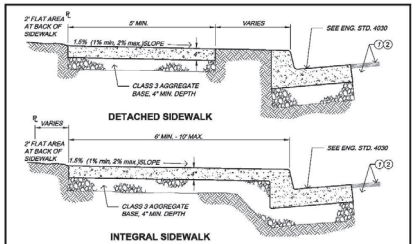


CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 4030
ISSUE DATE: MARCH 2016 | CURB & GUTTER | SHEET 1 OF 1



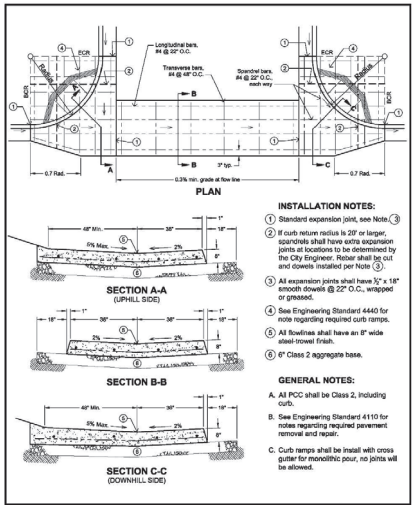
GENERAL NOTES:
Integral sidewalk, sidewalk with monolithic pour is the City standard for new sidewalk installation. Replacement sidewalk must be replaced in kind, standard integral or detached. Installations of new sidewalk in existing neighborhoods must match adjacent installations.

A. CONCRETE: Class 3.
B. FINISH: PCC sidewalk shall be given a broom finish.
C. SEAL and CURE: Apply curing compound in compliance with section 73-1.03F of the Standard Specifications.
D. DOWELS: ½" smooth bar dowels, 18" long at 24" O.C. at expansion joints and cold joints, to be greased or sleeved at one end.
E. EXPANSION JOINTS: ¼" expansion material shall be placed at driveways, BCRs, and at 100' intervals.
F. WEAKENED PLANE JOINTS: Plastic pullap quickjoint strips, or approved equal, shall be at 20' O.C. and 1½" deep.
G. SCORE MARKS: Sidewalks shall be scored at least ¼" deep, perpendicular to the curb face at 5' intervals. Sidewalks with a width of 8' or more shall have one score mark parallel to the curb face evenly spaced in the concrete surface.
H. AT COLD JOINTS BETWEEN SIDEWALK AND CURB: #3 x 6" dowels shall be drilled in back of curb at 24" O.C.
I. REBAR: When a utility box is located within the sidewalk area, the concrete surrounding the box shall be reinforced with continuous #4 rebar.
J. JOINTS: Expansion joints and weakened plane joints shall extend through sidewalk into curb and gutter.

(1) INSTALLATION NOTES:
PAVEMENT REMOVAL and REPAIR: See Engineering Standard 4915.

(2) BIKE LANES: No longitudinal joints or seams are allowed in bike lanes. If a longitudinal joint results due to the contractor's work or the above requirements in Note 1, the contractor shall remove a minimum of 2" of asphalt from the pavement across the entire bike lane using a method approved be the City and resurface the bike lane to the satisfaction of the City.

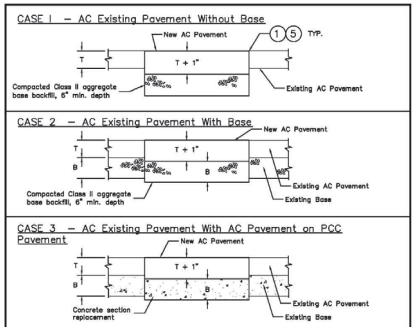
CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 4310
ISSUE DATE: MARCH 2016 | SIDEWALK - INTEGRAL & DETACHED | SHEET 1 OF 1



INSTALLATION NOTES:
1. Standard expansion joint, see Note 3
2. If curb return radius is 20' or larger, spandrels shall have extra expansion joints at locations to be determined by the City Engineer. Rebar shall be cut and dowels installed per Note 3.
3. All expansion joints shall have ½" x 18" smooth dowels @ 22" O.C., wrapped or greased.
4. See Engineering Standard 4440 for note regarding required curb ramps.
5. All flowlines shall have an 8" wide steel-trowel finish.
6. 6" Class 2 aggregate base.

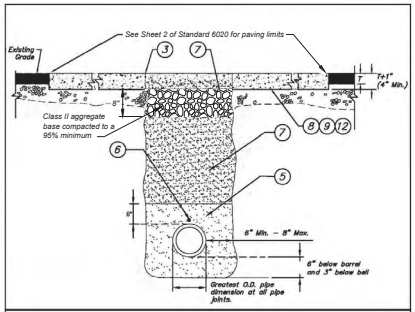
GENERAL NOTES:
A. All PCC shall be Class 2, including curb.
B. See Engineering Standard 4110 for notes regarding required pavement removal and repair.
C. Curb ramps shall be install with cross gutter for monolithic pour, no joints will be allowed.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 4310
ISSUE DATE: MARCH 2016 | CROSS GUTTER | SHEET 1 OF 1



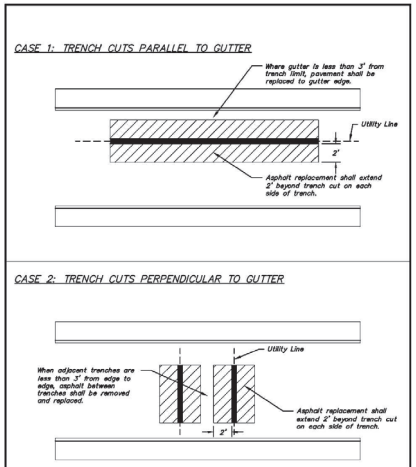
NOTES:
1. All pavement removals shall be made on straight line saw cuts a minimum of 12" deep. If cut line is less than 36" from a cut line, expansion joint or edge, the existing pavement shall be removed to cut lines, expansion joint or edge.
2. During excavation and subgrade preparation, the contractor shall take all necessary steps to ensure the protection of all improvements, whether public or private, including utilities and their services from any damage that could occur due to contractor's operation.
3. Temporary pavement replacement shall be placed level with the existing pavement on compacted trench backfill and shall be a minimum of 2" thick.
4. Permanent pavement resurfacing shall be done within two (2) weeks after backfilling has been completed, and only after settlement has taken place and the fill surface has sufficiently dried. All cuts shall be clean and straight.
5. Contact surfaces of existing pavement, manhole frames and shafts and concrete surfaces shall be given a tack coat before permanent asphalt trench resurfacing is placed.
6. Asphalt concrete pavement must be Type A – ½" Aggregate Min.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 4915
ISSUE DATE: MARCH 2016 | ASPHALT CONCRETE PAVEMENT REPAIR | SHEET 1 OF 1

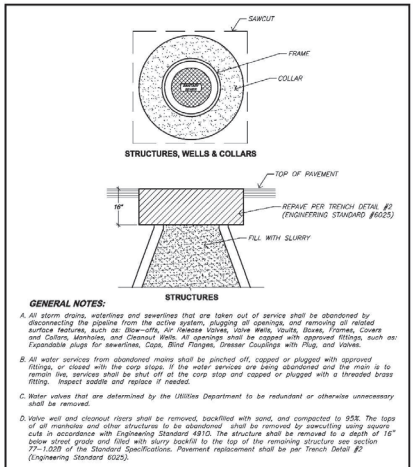


NOTES:
1. See Standard Specification Section 26-1 and 77-1 for backfill material and bedding requirements.
2. Prior to any beginning any trench cut, Contractors shall meet with the Public Works Department to determine if pavement cuts are restricted by the City of Arroyo Grande Pavement Cut Policy (Resolution No. 3819).
3. It is the responsibility of the Contractor or Permittee to contact "Underground Service Alert" (USA) to determine locations for existing Power, Telephone, Oil, Natural Gas, Cable TV, Sewer, Storm Drainage, and any other underground facilities.
4. Initial trench width may be only as wide as necessary to complete utility installation.
5. Pipe bedding shall be clean sand compacted to a 95% Minimum.
6. Number 12 insulated THW copper wire shall be placed continuously over all PVC pipe and shall be brought to the surface in valve wells, meter boxes, & similar structures.
7. Trench backfill shall be native sand materials compacted to a 95% Minimum.
8. Temporary trench paving shall be 3" Min. of Cold Mix Asphalt. (Steel Traffic Plates may be used in lieu of temporary paving upon approval of the City Engineer).
9. Provide vertical surfaces and square corners. Overlapping cuts shall not be permitted.
10. When edge of trench cut is with 3" of an existing trench or gutter, pavement cut shall extend to existing trench or curb.
11. All pavements markings and markers which are disturbed during trenching and asphalt replacement shall be replaced.
12. When the existing roadway asphalt concrete section depth is 8" thick or greater, the Contractor may grind and replace to a depth of 4" within paving limits of work that is not directly over trench area. Alternatively, the Contractor may remove and replace the entire asphalt concrete section depth plus 1".

TRENCH BACKFILL (1/1)

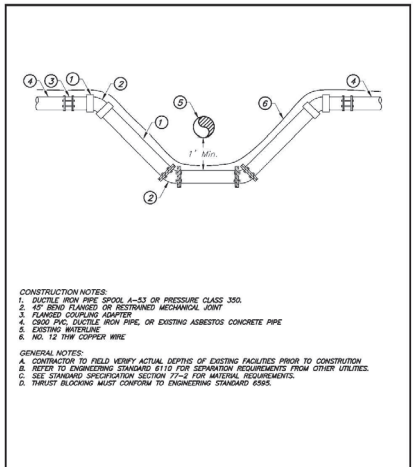


CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 6020
ISSUE DATE: MARCH 2016 | TRENCH DETAIL | SHEET 2 OF 2



GENERAL NOTES:
A. All storm drains, waterlines and sewerlines that are taken out of service shall be abandoned by disconnecting the pipeline from the active system, plugging all openings, and removing all related surface features, such as: Blow-offs, Air Release Valves, Valve Wells, Vaults, Boxes, Frames, Covers and Collars, Manholes, and Cleanout Wells. All openings shall be capped with approved fittings, such as: Expandable plugs for sewerlines, Caps, Blind Flanges, Dresser Couplings with Plug, and Valves.
B. All water services from abandoned mains shall be pinched off, capped or plugged with approved fittings, or closed with the corp stops. If the water services are being abandoned and the main is to remain live, services shall be shut off at the corp stop and capped or plugged with a threaded brass fitting. Inspect saddle and replace if needed.
C. Water valves that are determined by the Utilities Department to be redundant or otherwise unnecessary shall be removed.
D. Valve well and cleanout risers shall be removed, backfilled with sand, and compacted to 95%. The tops of all manholes and other structures to be abandoned shall be removed by sawcutting using square cuts in accordance with Engineering Standard 4910. The structure shall be removed to a depth of 16" below street grade and filled with slurry backfill to the top of the remaining structure see section 77-1.020 of the Standard Specifications. Pavement replacement shall be per Trench Detail #2 (Engineering Standard 6025).
E. All sewer laterals from the abandoned sewer main shall be capped or plugged with approved fittings. If the sewer laterals are being abandoned and the main is to remain live, the laterals shall be excavated at the main and capped at the wye. The contractor must remove a minimum of 1' section of the abandoned sewer lateral and capped.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 6050
ISSUE DATE: MARCH 2016 | UTILITY ABANDONMENT | SHEET 1 OF 1



CONSTRUCTION NOTES:
1. DUCTILE IRON PIPE SPOOL A-53 OR PRESSURE CLASS 350.
2. 45° BEND FLANGED OR RESTRAINED MECHANICAL JOINT
3. FLANGED COUPLING ADAPTER
4. C900 PVC, DUCTILE IRON PIPE, OR EXISTING ASBESTOS CONCRETE PIPE
5. EXISTING WATERLINE
6. NO. 12 THW COPPER WIRE

GENERAL NOTES:
A. CONTRACTOR TO FIELD VERIFY ACTUAL DEPTHS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
B. REFER TO ENGINEERING STANDARD 6110 FOR SEPARATION REQUIREMENTS FROM OTHER UTILITIES.
C. SEE STANDARD SPECIFICATION SECTION 77-2 FOR MATERIAL REQUIREMENTS.
D. THRUST BLOCKING MUST CONFORM TO ENGINEERING STANDARD 6595.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 6120
ISSUE DATE: MARCH 2016 | WATER UNDERCROSSING | SHEET 1 OF 1

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM: mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

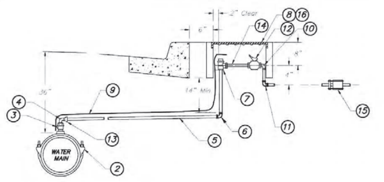
CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

DETAILS - 1

REFERENCE NO. PW 2023-05

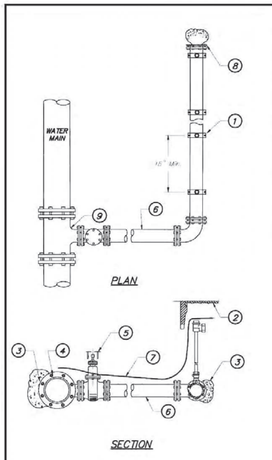
SHEET: C-501
8 OF 11

DWG: W:\AutoCAD\Projects\from Contracts\2023\2023-05-Cobb Water Line\2023-05-Details.dwg | Layout: C-501 - Details 1 | Tab: Details | Date: 5/8/2023 - 1:14 PM
XREF: S-BASE-1 IMAGES: C:\ETL-AF\Temp\ | C:\ETL-AF\Temp\ | C:\ETL-AF\Temp\ |



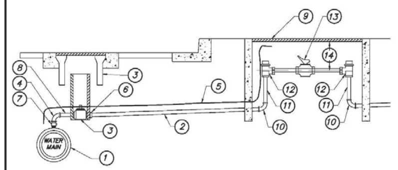
NOTES:
1. 1" services shall be installed for service to 5/8", 3/4" and 1" meters.
2. Service Saddle.
   Saddles for C900 PVC Water Mains: 1", CC threads, Bronze with Double Stainless Steel Straps model Jones J-969, A.Y. McDonald 3845, Ford 202BS or equivalent.
   Saddles for AC, Cast Iron, or Ductile Iron Water Mains: 1", CC threads, Bronze with Double Straps model Jones J-979, A.Y. McDonald 3825, Ford 202B or equivalent.
3. Corporation Stop: 1" CC inlet thread x 1" I.P. outlet thread – Jones J-45, A.Y. McDonald 3128, Ford F400-4, or equivalent.
4. 1" NPT Brass 90° Ell.
5. 1" diameter SCH 80 PVC Pipe
6. 1" SCH 80 PVC 90° Ell. (S/S)
7. Angle Meter Stop: For 5/8" and 3/4" meters, use 1" x 3/4" size. For 1" meters, use 1" x 1" size – model Jones J-4202, Ford KV63-342W, Ford KV63-444W, A.Y. McDonald 4602-44 or equivalent.
8. Meter Box and Lid.
   Meter Boxes for 5/8", 3/4" and 1" meters
   Meter Box: Oldcastle Fibrelyte FL12
   Lid: Oldcastle Fibrelyte FL12
9. No. 12, insulated THW copper wire shall run continuously over mains and services and be brought up to the surface in valve wells and meter boxes.
10. $\frac{3}{4}$" SCH 40 PVC 90° Street Ell (S/S).
11. $\frac{3}{4}$" SCH 80 PVC 90° Ell (S/S).
12. $\frac{3}{4}$" Ball Valve (Furnished by City).
13. 1" Male x 1" PVC Pack Joint Adapter
14. Install Temporary SCH 80 PVC Connection
15. For connection to existing private water line, install Romac 511 $\frac{3}{4}$" behind sidewalk.
16. In unpaved areas, a 4" thick x 12" wide PCC pad shall be place around box.
17. Water connection shall be 18" (Min.) from a water main joint.
18. Adjacent service lateral shall be separated by at least 18".

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6210
ISSUE DATE: MARCH 2016	WATER SERVICE - 1" SERVICE	SHEET 1 OF 1



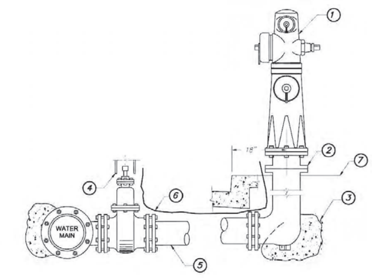
NOTES:
1. Use water service manifold for five (5) or more 1" water services.
2. Install meter boxes per Engineering Standard 6210.
3. Thrust Block per Engineering Standard 6595.
4. Mechanical Joint X-flanged Tee.
5. Water Valve and Valve Well per Engineering Standard 6340.
6. Minimum 4" diameter C-900 PVC or DIP lateral with mechanical joint at each end.
7. No. 12, insulated THW copper wire shall run continuously over mains and services and brought up to the surface in valve wells and meter boxes.
8. 4" MJ cap.
9. Use tapping sleeve to connection new water service manifold to existing water mains.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6220
ISSUE DATE: MARCH 2016	WATER SERVICE MANIFOLD	SHEET 1 OF 1



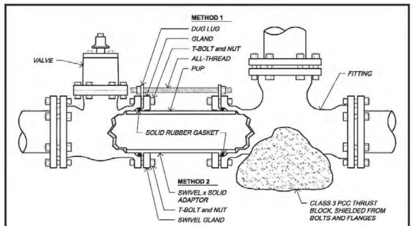
NOTES:
1. Standard Service Saddle:
   Saddles for C900 PVC Water Mains
   2", CC threads, Bronze with Double Stainless Steel Straps model Jones J-969, A.Y. McDonald 3845, Ford 202BS, or equivalent.
   Saddles for AC, Cast Iron, or Ductile Iron Water Mains
   2", CC threads, Bronze with Double Straps model Jones J-979, A.Y. McDonald 3825, Ford 202B, or equivalent.
2. Use 2" schedule 80 PVC for both 1$\frac{1}{2}$" services and 2" services. 1$\frac{1}{2}$" services must be reduced at the angle meter stop.
3. Water Valve and Well per Engineering Standard 6340.
4. Brass 2" 90° Elbow.
5. No. 12, insulated THW copper wire shall run continuously over service line from corporation stop to angle stop.
6. Brass 2" Pack Joint Adapter
7. Corporation Stop: 2" CC inlet thread x 2" I.P. outlet thread models Jones J-45, A.Y. McDonald 3128-B, Ford FB400 or equivalent.
8. Brass 2" Nipple
9. Oldcastle Fibrelyte FL36 box and lid.
10. Schedule 80 PVC SxS 90° bend
11. Schedule 80 PVC Plan End Nipple
12. PVC Pack x Meter Flange – Angle Meter Stop – Jones J-1979W, A.Y. McDonald-B-44, Ford FV63-666W
13. 1 $\frac{1}{2}$" or 2" Water Meter
14. Provide 12" to 18" of clearance between lid and service piping.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6230
ISSUE DATE: MARCH 2016	WATER SERVICE - 1.5" TO 2" SERVICE	SHEET 1 OF 1



NOTES:
1. Fire Hydrant: Fire hydrant must have:
   one (1) – 4' outlet, National Standard Pumper Thread;
   two (2) 2$\frac{1}{2}$" outlets, National Standard Pumper Thread;
   6 hole bolt patter;
   Steel caps – Jones J-3765, Clow 2060, AVK S.S., or equivalent.
2. 6" Breakaway Spool – Install hydrant to provide 3" to 4" clearance under the flange. Use $\frac{5}{8}$" x 3$\frac{1}{2}$" cadmium plated breakaway bolts. Use breakaway bolts on the top and bottom of the breakaway spool. (Spool to be 4" Min.) Steel caps and have a 6 hole bolt patter.
3. Thrust Block per Engineering Standard 6595.
4. Water Valve and Well per Engineering Standard 6340.
5. 6" PVC Pipe, pressure class 235, C-900m DR-18.
6. No. 12, insulated THW copper wire shall run continuously over mains and services and brought up to the surface.
7. Install fire hydrant in sidewalk. Where sidewalk does not exist, install 4'x4' concrete pad centered on fire hydrant. Concrete pad must be a minimum of 4" thick.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6310
ISSUE DATE: MARCH 2016	FIRE HYDRANT ASSEMBLY	SHEET 1 OF 1



VALVES ADJACENT TO FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS LISTED BELOW:

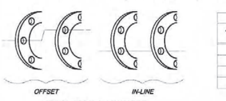
METHOD 1 - May be used only with in-line bolt alignment of valve and fitting. See chart below for number of all-threads. All-threads and nuts shall be stainless steel and shall be coated with Henry's #204 roof cement, or equal. this method may be used only with approval of the City Utilities Department.

METHOD 2 - May be used with either offset or in-line bolt alignment.

METHOD 3 - Flange-to-flange bolted connection may be used.

METHOD 4 - Retainer glands may be used with ductile iron pipe only, subject to City aproval. Retainer glands may NOT be used on fire hydrant laterals.

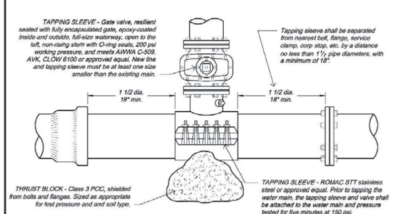
METHOD 5 - Swivel gland and integral retaining lip connections may be used.



BOLT HOLE ALIGNMENT

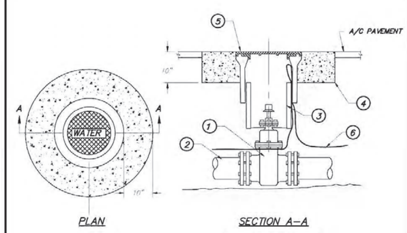
METHOD 1	
PIPE SIZE (inches)	No. of ALL-THREADS (min.)
4	2
6, 8, 10	4
12, 14	6
over 14	TO BE DETERMINED IN FIELD

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6320
ISSUE DATE: MARCH 2016	VALVE TO FITTING RESTRAINT	SHEET 1 OF 1



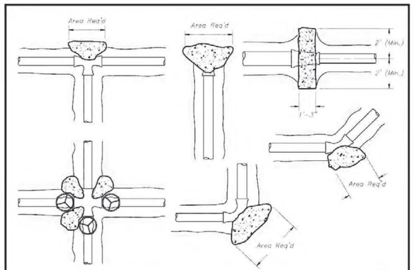
HOT TAP

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6330
ISSUE DATE: MARCH 2016	WATERLINE TIE-IN	SHEET 1 OF 1



NOTES:
1. Water Valve
   3 Inch through 8 inch Valves – Gate Valve Only.
   Mueller Resilient Wedge A2360 (with EPDM Rubber Seats only) or equivalent.
   10 Inch and 12 inch Valves – Butterfly Valves Only.
   Pratt Groundhog with interior and exterior epoxy coating or equivalent.
2. Water Main
3. 8" Riser (min.). Use one continuous section of SDR 35 PVC.
4. PCC Collar must conform to Engineering Standard 6040.
5. Valve Box Tyler Union G-05. Lid shall be rattle free without the use of sealant and marked "Water".
6. No. 12, insulated THW copper wire shall run continuously over mains and services and brought up to the surface in valve well and meter box.
7. When depth of valve operating unit exceeds 36", the operating nut must be extended to within 24" of ground surface.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6340
ISSUE DATE: MARCH 2016	WATER VALVE AND WELL	SHEET 1 OF 1



	Sandy Soil, LATERAL BEARING=1000 psf					Soft Clay Soil, LATERAL BEARING=500 psf				
	REQUIRED AREA (square feet)					REQUIRED AREA (square feet)				
PIPE	TEE'S & DEAD ENDS	90°	45°	22 1/2°	11 1/4°	TEE'S & DEAD ENDS	90°	45°	22 1/2°	11 1/4°
4" CL 150	2.8	3.9	2.1	1.0	1.0	5.6	7.8	4.3	2.2	1.0
6" CL 150	5.7	8.1	4.4	2.2	1.0	11.5	16.5	8.7	4.4	2.0
8" CL 150	10.0	14.0	7.6	3.8	2.0	20.0	28.0	15.5	7.7	3.8
10" CL 150	16.5	23.3	12.8	6.4	3.3	33.0	46.5	25.5	13.0	6.4
12" CL 150	23.0	32.5	18.0	8.9	4.5	46.0	65.0	35.5	18.0	8.9
4" CL 200	3.7	5.2	2.8	1.4	1.0	7.4	10.5	5.7	2.9	1.4
6" CL 200	7.6	11.0	5.8	2.9	1.5	15.5	21.5	12.0	5.9	2.9
8" CL 200	13.0	18.6	10.0	5.1	2.6	26.5	37.0	20.0	10.5	5.1
12" CL 200	22.0	31.1	16.8	12.0	4.3	44.0	62.0	33.5	17.3	8.6
12" CL 200	31.0	43.5	23.5	12.0	5.9	61.5	87.0	47.0	24.0	12.0

NOTES:
1. Thrust block must bear against undisturbed earth.
2. Protect fittings with 10 mil. visqueen to prevent bonding with concrete.
3. For other soil types multiply areas by the ratio of allowable bearing values.
4. Test pressure must not exceed the pressure class of the pipe.
5. Other lateral pressures per Soils Engineer.
6. Thrust Block thickness must be three (3) times the pipe diameter.
7. Concrete must be Class 3 concrete.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN		6440
ISSUE DATE: MARCH 2016	THRUST BLOCKS	SHEET 1 OF 1

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM:

mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

DETAILS - 2

REFERENCE NO. PW 2023-05

SHEET: C-502
9 OF 11

DWG: N:\Arroyo Grande\AG-2021-003 Fair Oaks Water Line\300 Engineering\301 CAD\Plansets\C-502.dwg Layout Name: C-502 - Plotted by: Timothy McHale Date: 3/8/2023 - 1:14 PM
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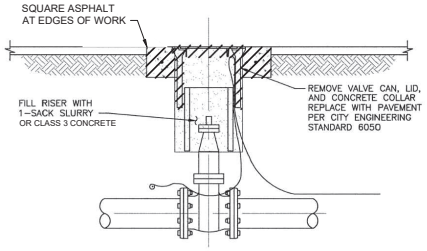
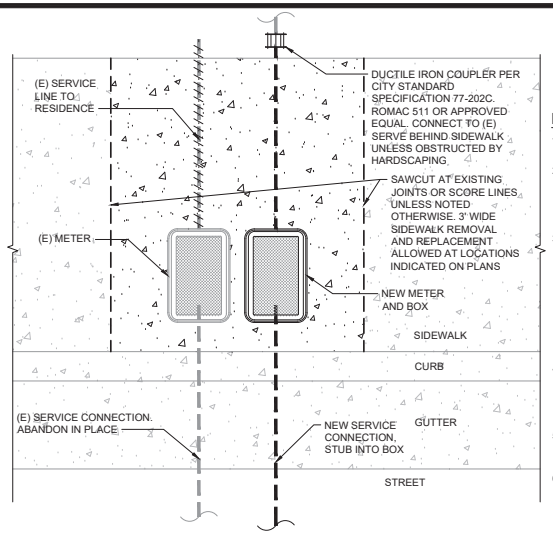


WATER VALVE DEMOLITION DETAIL

NOT TO SCALE

1 -



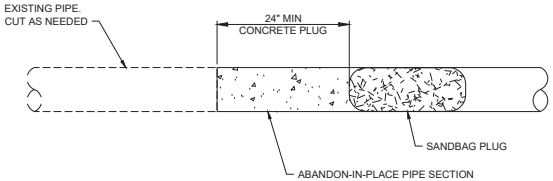
NOTES:

1. MAINTAIN OPERATION UNTIL TIE-IN.
2. ABANDON EXISTING WATER SERVICE LATERAL AND PROVIDE NEW 1"Ø SERVICE LATERAL PER CITY STANDARD DRAWING 6210.
3. IF EXISTING SERVICE LATERAL IS SMALLER THAN 1"Ø PROVIDE NEW 1"x1" ANGLE STOP, METER, AND APPROPRIATE BRASS REDUCING BUSHING TO CONNECT TO EXISTING RESIDENTIAL SERVICE LINE. SEE APPENDIX B FOR METER SIZES.
4. WHERE NEW SERVICES ARE ADJACENT TO EACH OTHER MAINTAIN MINIMUM 18" SEPARATION BETWEEN SADDLE TAPS ON NEW MAIN.
5. PROVIDE TEMPORARY MOUNTING OF MAILBOX IF WITHIN WORK AREA.
6. CURB, GUTTER AND SIDEWALK IMPROVEMENTS PER CITY STANDARD DRAWING 4110

METER CONNECTION (1-INCH AND SMALLER) DETAIL

NOT TO SCALE

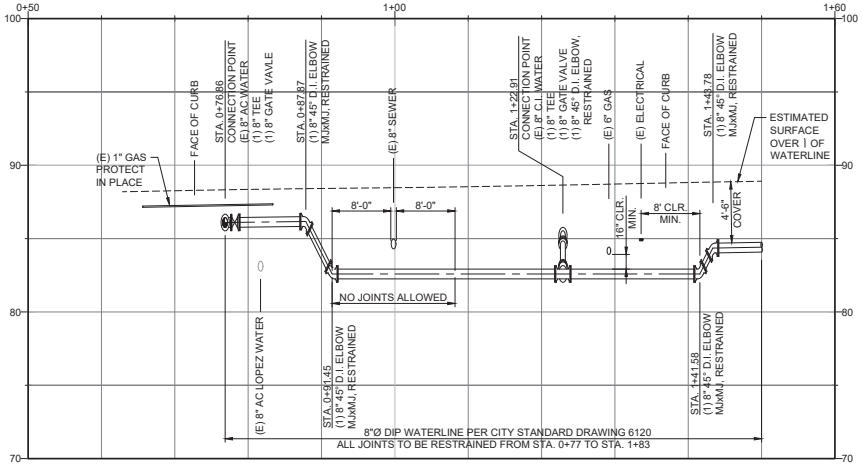
2 -



CUT, PLUG, AND ABANDON EXISTING PIPE

NOT TO SCALE

3 -



PROFILE - STA. 0+76.86 TO STA. 1+50

SCALE: 1" = 8' HORZ.

4 -

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM:

mkn

P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL:

REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:

JOSEPH J. REICHMUTH, PE

SCALE:

HORIZ. AS SHOWN

VERT. AS SHOWN

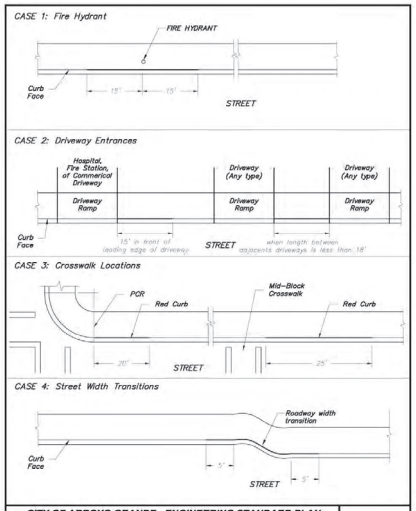
CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

DETAILS - 3

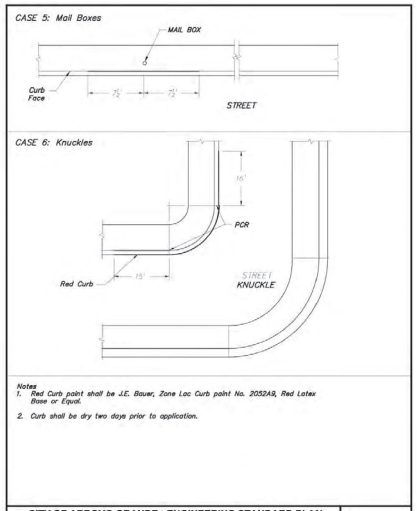
REFERENCE NO.
PW 2023-05

SHEET:
C-503
10 OF 11

DWG: W:\mkn Drawings\ARC\2023\23-04 Grub Hollow Lot\2023 Engineering\01 CAD\Plansets\C-503.dwg Layout Name: C-503 - Details by: Timothy Mitchell Date: 3/8/2023 - 1:16 PM
XREF'S: C-BASE-FT-CLIP - IMAGES: C-BETA-JAI.dwg - C-BAMAP.dwg



CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 7420
ISSUE DATE: MARCH 2016 | PARKING RESTRICTIONS | SHEET 1 OF 2



Notes
1. Red Curb paint shall be J.E. Bauer, Zone Loc Curb paint No. 2052A9, Red Latex Base or Equal.
2. Curb shall be dry two days prior to application.

CITY OF ARROYO GRANDE - ENGINEERING STANDARD PLAN | 7420
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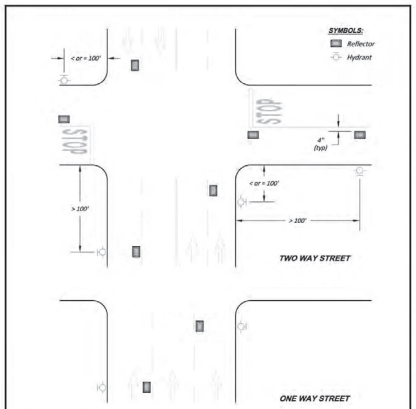

GENERAL NOTES:
A. REFLECTORS MUST BE 2-WAY BLUE REFLECTIVE MARKERS AND CONFORM TO CALTRANS STANDARDS.
B. REFLECTORS MUST BE SET ON THE HYDRANT SIDE OF THE ADJACENT TRAFFIC STRIPE.
C. PLACE REFLECTOR IN THE CENTER OF THE PAVEMENT WHEN NO TRAFFIC STRIPES EXIST.
D. WHEN HYDRANTS ARE WITHIN 100' OF AN INTERSECTION, A MARKER MUST BE PLACED ON THE CROSS STREET AS WELL.
E. PLACE REFLECTORS BEHIND THE PEDESTRIAN CROSSING AREA AT AN INTERSECTION.
F. FIX REFLECTORS TO PAVEMENT IN COMPLIANCE WITH SECTION 85, "PAVEMENT MARKERS" OF THE STD SPECIFICATIONS.

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POTHOLE DATA

POTHOLE	DESCRIPTION	DEPTH FROM TOP OF SURFACE (in.)
P1	8" AC WATER	23
P2	8" LOPEZ WATER	59
P3	SEWER	42
P4	8" AC WATER	20 (TOP OF NUT)
P5	6" GAS	51.5
P6	PG&E (3 CONDUITS)	45
P7	2" WATER SERVICE	33 (TOP OF NUT)
P8	6" FIRE HYDRANT LATERAL	33
P9	PG&E 2" PVC	28
P10	SERVICE LATERAL	19 (TOP OF NUT)
P11	GAS	26.5
P12	6" AC WATER	40
P13	2" GAS	32
P14	6" AC WATER	34
P15	2" STEEL GAS	23.5
P16	6" AC WATER	23 (TOP OF NUT)
P17	4" AC WATER	30
P18	2" STEEL WATER	31.5 (TOP OF NUT)
P19	6" FIRE HYDRANT LATERAL	21 (TOP OF NUT)
P20	4" AC WATER	32
P21	8" CI WATER	19.5 (TOP OF NUT)

POTHOLE DATA TABLE 1 -

REV.	DESCRIPTION:	DATE:	APPD. BY:

DESIGN FIRM: mkn
P.O. BOX 1604
ARROYO GRANDE, CA 93421 (805) 904-6530

SEAL: REGISTERED PROFESSIONAL ENGINEER JOSEPH J. REICHMUTH No. C63124 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JJR	JPF	---

PREPARED UNDER THE DIRECTION OF:
JOSEPH J. REICHMUTH, PE

SCALE:
HORIZ. AS SHOWN
VERT. AS SHOWN

CITY OF ARROYO GRANDE
PUBLIC WORKS DEPARTMENT

DETAILS - 4

REFERENCE NO. PW 2023-05

SHEET: C-504
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D:\0_Mkn\Projects\AGA\23-0510 Fair Oak Wells\Drawings\01 CD\PW_Install\C504.dwg - Layout Name: C-504 - Plotted by: Timothy Nichols Date: 3/8/2023 - 1:17 PM
XREF'S: SHEAD=P1 IMAGES: C:\JETI-JRDrafting - C:\JETI-JRDrafting - C:\JETI-JRDrafting - C:\JETI-JRDrafting - C:\JETI-JRDrafting - G:\MkN\Logos