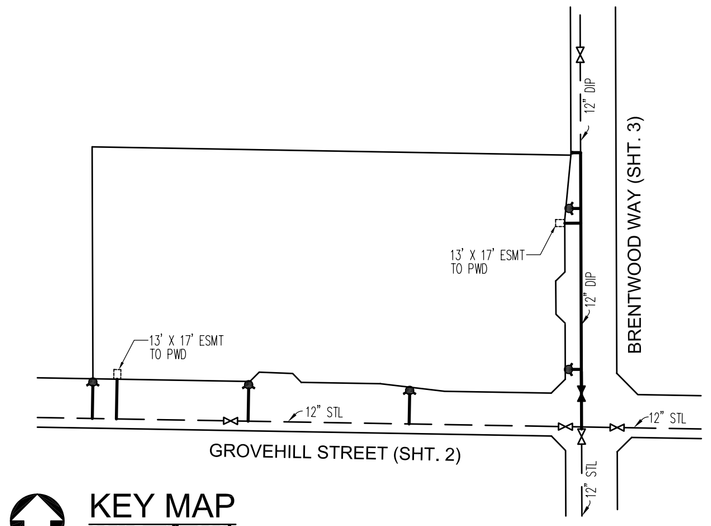
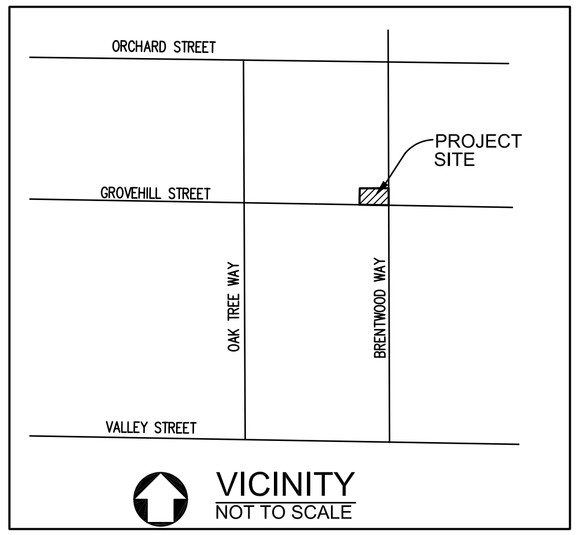
WATER SYSTEM QUANTITIES

ITEM #	DESCRIPTION	SHT 2	SHT 3	TOTAL	UNITS
1	12" D.I. PIPE, CL350, DCML.		602	602	LF
2	8 " STL. PIPE, 10 GA, CMLC	296	50	346	LF
3	1-1/2" METERED SVC PER PWD STD W-1 WITH APPROVED BACKFLOW DEVICE	6		6	EA
4	12" X 8" KOPPL CN-120 WELD-ON NOZZLE W/FLG'D OUTLET	4		4	EA
5	12" X 8" MJ X FLG TEE, D.I., CL350, DCML		1	1	EA
6	12" X 6" MJ X FLG TEE, D.I., CL350 DCML		2	2	EA
7	12" FLG'D BUTTERFLY VALVE, CL150, W/ VALVE BOX PER P.W.D. STD. W-5		1	1	EA
8	8" FLG'D TAPPING VALVE, CL150, W/ VALVE BOX PER P.W.D. STD. W-5	4		4	EA
9	8" FLG'D GATE VALVE, CL150, W/ VALVE BOX PER P.W.D. STD. W-5		1	1	EA
10	12" FLG INSULATION KIT		1	1	EA
11	8" FLG INSULATION KIT		1	1	EA
12	8" SLIP-ON WELD FLGS	9	4	13	EA
13	8" X 6" FLG'D 90° REDUCING ELBOW, STL, CMLC	3		3	EA
14	8" FLG'D 90° ELBOW, STL, CMLC	2	2	4	EA
15	12" MJ X FLG ADAPTER, D.I., CL350, DCML		5	5	EA
16	12" TEST PLATE		2	2	EA
17	6" X 4" X 2-1/2" FIRE HYDRANT COMPLETE PER PWD STD. W-2.	3		3	EA
18	6" X 4" X 2-1/2" FIRE HYDRANT COMPLETE PER PWD STD. W-2A.		2	2	EA
19	8" X 4" COMPOUND METER AND VAULT (SEE SHEET 4 FOR MATERIAL)	1		1	EA
20	8" USC APPROVED REDUCED-PRESSURE PRINCIPLE BACKFLOW PREVENTER.	1	1	2	EA
21	8" REDUCED PRESSURE DETECTOR ASSEMBLY, FEBCO MODEL 826YD O.A.E.				EA
TB	CONCRETE THRUST BLOCK PER P.W.D. W-4	AS REQUIRED			EA



KEY MAP
SCALE: 1"=200'



VICINITY
NOT TO SCALE

GENERAL NOTES

1. WATER SYSTEM TO BE CONSTRUCTED PER PALMDALE WATER DISTRICT (PWD) STANDARD SPECIFICATIONS, LATEST REVISION. COPIES OF SAID SPECIFICATIONS ARE ON FILE AT BOTH PALMDALE WATER DISTRICT, 2029 EAST AVE Q. PALMDALE, CA 93550, AND AT THE OFFICE OF THE CITY ENGINEER AT THE CITY HALL PUBLIC SERVICE BUILDING, 38250 SIERRA HIGHWAY, PALMDALE, CA 93550.
2. THE CONTRACTOR SHALL NOTIFY PALMDALE WATER DISTRICT IN WRITING AT 2029 EAST AVENUE Q, PALMDALE, CA 93550 (661-947-4111) AND THE CITY ENGINEER (661-267-5272) AT LEAST 48 HOURS BEFORE STARTING ANY WATER SYSTEM CONSTRUCTION TO BE PERFORMED HEREUNDER.
3. THE CONTRACTOR IS REQUIRED TO OBTAIN CITY AND COUNTY PUBLIC ROAD AND CALTRANS ENCROACHMENT PERMITS FOR WATER SYSTEM FACILITES.
   ALL EXCAVATIONS FOR WATER SYSTEM CONTRUCTION SHALL BE BACKFILLED, COMPACTED AND FINISHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE PERMIT.
   THE MINIMUM COMPACTION REQUIREMENTS FOR ANY EXCAVATION ARE: 90% RELATIVE COMPACTION FROM SUBGRADE TO THE BOTTOM OF EXCAVATION,
   CONTRACTOR SHALL SUBMIT TO THE PALMDALE WATER DISTRICT COMPACTION REPORTS FROM A CERTIFIED SOILS LABORATORY CONFIRMING TRENCH COMPACTION. A MINIMUM OF _____ TEST(S) SHALL BE CONDUCTED.
4. THE CONTRACTOR SHALL CONTACT ALL OTHER UTILITIES INCLUDING SBC (805) 583-6585, SOUTHERN CALIFORNIA EDISON (661) 945-9317, SOUTHERN CALIFORNIA GAS (818) 353-8511, AND ADELPHIA (661)273-1890 FOR LOCATIONS OF THEIR EXISTING AND PROPOSED FACILITIES PRIOR TO EXCAVATIONS IN THIS AREA.
5. THE PLAN CHECK FEE FOR THIS PROJECT IS $_____, THIS FEE MUST BE PAID TO THE DISTRICT PRIOR TO PLAN CHECK ACTIVITY.
6. THE INSPECTION FEE FOR THIS PROJECT IS $_____, THIS AMOUNT MUST BE PAID TO THE DISTRICT BEFORE BEGINNING CONSTRUCTION ACTIVITY.
7. THE FORESTER AND THE FIRE WARDEN HAVE REQUIRED THAT THE FIRE FLOW FOR PUBLIC HYDRANTS FOR THIS PROJECT BE____GPM. THE REQUIRED FIRE FLOW FOR PRIVATE ON-SITE HYDRANTS IS____GPM. FIRE FLOW SHALL BE OVER AND ABOVE MAXIMUM DAILY DOMESTIC DEMAND FOR A DURATION OF _ HOURS AT A MINIMUM PRESSURE OF 20 PSI.
8. THE FRONT FOOTAGE FEE FOR PM 81770 IS $_____, THE ASSESSMENT PARITY CHARGES ARE $_____, THE CAPITAL IMPROVEMENT CHARGE FOR THIS PROJECT IS $_____, THESE AMOUNTS MUST BE PAID TO THE DISTRICT PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
9. IF CHANGES TO THESE CONSTRUCTION PLANS ARE REQUIRED DUE TO FIELD CONDITIONS WHICH ARE NOT SHOWN ON THE PLANS, SUCH PROPOSED CHANGES SHALL BE SUBMITTED BY THE ENGINEER OF RECORD FOR REVIEW BY THE DISTRICT PRIOR TO CONSTRUCTION.
10. METERS ARE TO BE PURCHASED THROUGH PALMDALE WATER DISTRICT.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE DISTRICT PRIOR TO THE ISSUANCE OF A FIRE LETTER.
12. THE DEVELOPER IS REQUIRED TO APPLY FOR WATER SERVICE FOR ALL PROPERTIES SHOWN HEREON PRIOR TO ACTIVATION OF THE PROJECT WATER SYSTEM. ALL SERVICES WILL BE BILLED IN ACCORDANCE WITH PALMDALE WATER DISTRICT POLICIES AND REGULAR RATES FROM THE SYSTEM ACTIVATION DATE.

GENERAL CONSTRUCTION NOTES

1. FITTINGS REFLECT THE USE OF DUCTILE IRON PIPE. IF AN ALTERNATIVE PIPE IS USED, THE FITTINGS MUST REFLECT THE USE OF SAID PIPE.
2. ALL MJ FITTINGS REQUIRE THE USE OF RETAINING GLANDS.
3. ALL BRANCH AND RUN FITTINGS TO BE RESTRAINED BY HARNESS SYSTEM PER P.W.D. STD. W-18-23.
4. MISCELLANEOUS BLIND FLANGES, TEST PLATES, AND BLOW-OFFS WILL BE REQUIRED TO TEST NEW MAIN PRIOR TO TIE-IN. BLOW-OFFS TO BE PLUGGED WITH IRON PLUG AFTER TIE-IN.
5. CONTRACTOR TO POT HOLE ALL UTILITY CROSSINGS AND TIE-IN POINTS PRIOR TO CONSTRUCTION TO VERIFY LOCATION, DEPTH AND CONFIGURATION OF EXISTING FACILITIES.
6. WATER MAIN TO MAINTAIN A MINIMUM OF 42" OF COVER UNDER FUTURE T.C. GRADE. WHERE EXISTING GRADE FALLS BELOW FUTURE T.C. GRADE, CONTRACTOR TO PROVIDE COMPACTED FILL TO MAINTAIN A MINIMUM 42" OF COVER AT PROPOSED OR FUTURE T.C. GRADE A MINIMUM OF TEN FEET (10') EITHER SIDE OF PROPOSED MAINLINE PRIOR TO INSTALLATION OF MAIN.
7. PRESSURE REGULATORS ARE REQUIRED FOR ALL SERVICES WHERE SYSTEM PRESSURE MEETS OR EXCEEDS 80 PSI. REGULATORS TO BE MAINTAINED BY PROPERTY OWNER.
8. THE MINIMUM SEPARATION (VERTICAL) BETWEEN WATER MAIN AND CROSSING UTILITIES OR IMPROVEMENTS IS ONE FOOT (1'). SANITARY SEWER AND STORM DRAIN MUST CROSS BELOW WATER MAIN.

NOTE: STATIONING SHOWN ON THESE PLANS IS RELATIVE TO STREET CENTERLINE SHOWN ON STREET IMPROVEMENT PLANS

BENCH MARK

PALMDALE QUAD

BM _____ El. _____ NAVD 88 1998 Adjustment

DESCRIPTION

UNDERGROUND UTILITIES

BEFORE STARTING EXCAVATION, THE CONTRACTOR SHOULD CONTACT:

THE GENERAL TELEPHONE COMPANY,
UNDERGROUND SERVICE ALERT
TELEPHONE: 1-800-422-4133

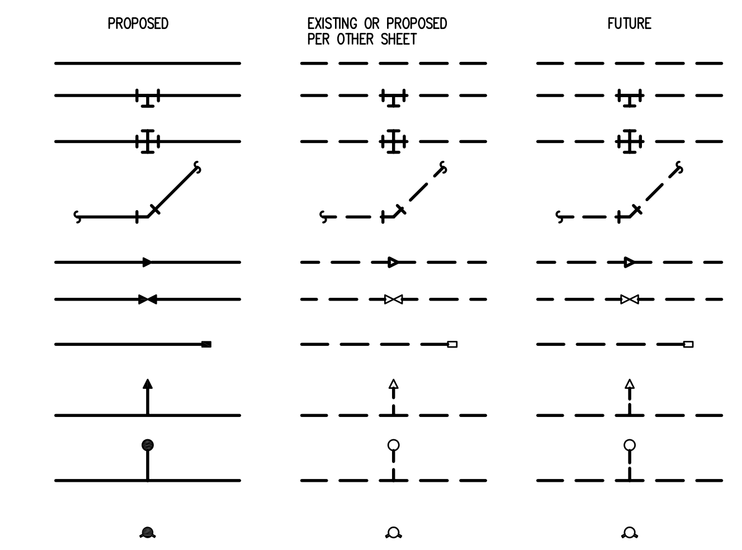
THE SOUTHERN CALIFORNIA EDISON COMPANY
MR DAVE RUPP
TELEPHONE: 1-661-945-9335

SBC
UNDERGROUND SERVICE ALERT
TELEPHONE: 510-645-2929

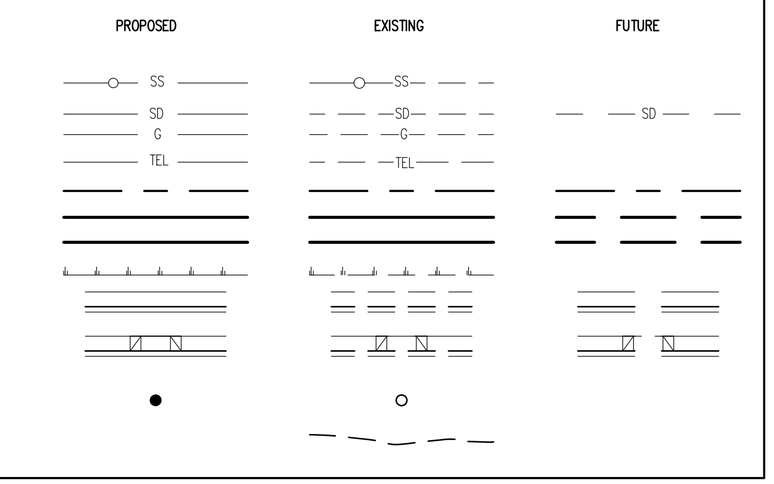
THE SOUTHERN CALIFORNIA GAS COMPANY
MR. PHIL CHURCH
TELEPHONE: 1-661-948-1526

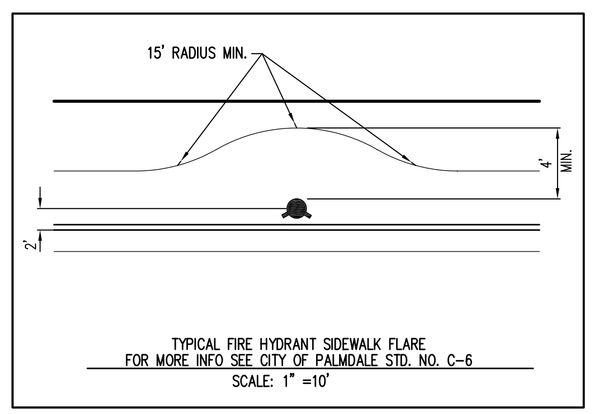
LEGEND

WATER



UTILITIES AND STREET IMPROVEMENTS





TYPICAL FIRE HYDRANT SIDEWALK FLARE
FOR MORE INFO SEE CITY OF PALMDALE STD. NO. C-6
SCALE: 1" =10'

NO.	REVISIONS	DATE	BY

DEVELOPER INFO
NAME, ADDRESS, PHONE

REGISTERED CIVIL ENGINEER STAMP

ENGINEERING FIRM INFORMATION
NAME, ADDRESS, PHONE, FAX, ETC.

NAME DATE

PALMDALE WATER DISTRICT

APPROVED BY:

PALMDALE WATER DISTRICT DATE

WATER SYSTEM IMPROVEMENTS

PM NO. 81770
MATERIAL LIST, GENERAL NOTES, KEY MAP, VICINITY MAP, BENCH MARK, LEGEND

WSM NO. 46-87	PM NO. 81770	SHEET: 1 OF 5