COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.0. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: **PS-0900495**
Date Issued: 03/09/2009
Exp. Date: 04/15/2009
Project No: PWP110005
Quad: SE

UE/CR/PM NO:30604309

ENCROACHMENT PERMIT

To: PG & E
375 N. WIGET LN.
WALNUT CREEK, CA 94598

Encroachment Type:

Pot Holes			

Location:
VARIOUS LOCATIONS; WOODWARD AVE.-PEACH AVE.-FIG AVE.-NILE RD.-ALMONDWOOD RD. 1350' W/O UNION RD.

In compliance with your request of **03/09/2009** , permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

The Department of Public Works, Field Inspection Section shall receive a notice at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion provided by Grantor.

Special Comments:

Traffic Control per MUTCD

FORMS:

SS/WW, R-29		

Est. Permit Fee: $650.00

THOMAS R. FLINN, Director
Department of Public Works

By: _____
Permit Section

WHITE	-Permitee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection
PINK	-Permit Section

ENCROACHMENT PERMIT

GENERAL PROVISIONS

1. This permit is issued under and subject to a11 1aws and ordinances of agencies governing the encroachment herein permitted. See the following references:
   STREETS AND HIGHWAYS CODE
   1. Division 1, Chapter 3
   2. Division 2, Chapter 2, Section 942
   3. Division 2, Chapter 4, Section 1126
   4. Division 2, Chapter 6

   SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, and 892.

2. It is understood and agreed by the Permittee that the doing of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.

3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean a condition as is possible and upon completion of the work granted herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.

4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any injury to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility of such maintenance of the encroachment structure by the County of San Joaquin.

5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Director of Public Works or his representative.

6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway may. require, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved by and at the sole expense of the Permittee.

7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.

8. All work shall be planned and carried out so that there will be as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Barricades shall be placed, With approved Signs and lights at light, and flagmen shall be employed, all as may be required by the particular work in progress.

9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to do the work provided for under this permit. In the event any .claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold them and each of them harmless for such claim.

10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely Stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surfacing is cut or damaged in the work of placing an encroachment structure, such material shall either be separately stored and replaced in the roadway as nearly as possible.in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as It was before the commencement of operations of placing the encroachment structure.

11. Whenever necessary to, secure permission from abutting property owners, such authority must be secured by the Permittee prior to starting work..

12. The future safety and convenience of the traveling public shall be given every consideration in the location and type of construction.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 3-4-09

To: San Joaquin County
Department of Public Works

P.G. & E. (KEVIN TORBIK)
(Applicant Name)

375. N. WIGET LN.
(Mailing Address)

WALNUT CREEK, CA 94598
(City, State, Zip Code)

925-974-4092
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	730052-20	REF #	
APN		CR #	
EXP. DATE	4.15.09		
VALID	3.16.09 TO 4.15.09		DRIVEWAYS:
STREET	Various Roads		*
AREA	Manteca QUAD SE		*
TYPE	POTHOLES		*
FORMS	SS/WW, R-29		
NOTES			

Sketch (Detailed plans may be submitted)

Plans Attached

P.M. 30609309

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the _____ side of _____ approximately _____ feet/mile _____ of _____, _____, by performing the following work (description of work):

① Crossing WOODWARD AVE. APPROX. 1350' W/O UNION RD. TO POTHOLE SUBSTRUCTURES
② " PEACH RD. "
③ " E. FIG AVE. "
④ " NILE RD. "
⑤ " E. ALMOND WOOD RD. "

Work will commence on or about 3-16-09 for approximately 5 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

ENGINEERING ESTIMATOR
Signature of Applicant - Title

3-4-09
Date

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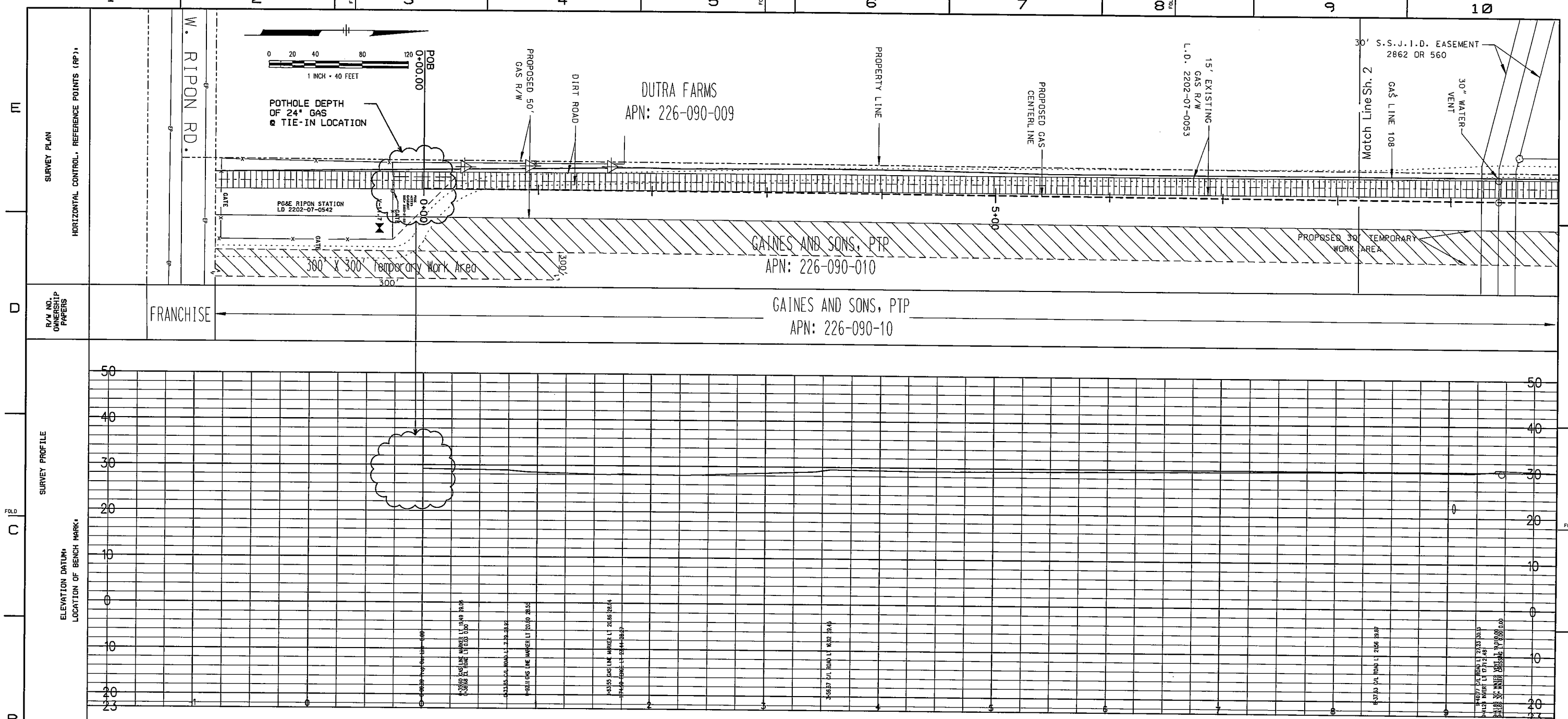


LEGEND

- GAS LINE MARKER
- ELECTRIC POLE & GUY
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT — EP —
- ELECTRIC BOX (E)

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-30.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

COATING REMOVAL
BEFORE REMOVING THE PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSIONBONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN.
- FOR ALL NON-EMERGENCY WORK, PRE-1972 PIPE WRAP MUST BE EVALUATED TO DETERMINE IF IT CONTAINS ASBESTOS PRIOR TO REMOVAL.
- FOR EMERGENCY WORK ON PRE-1972 PIPE, ASSUME THE WRAP CONTAINS > 1% ASBESTOS UNTIL THE WRAP CAN BE TESTED.
- OBTAIN SAMPLES OF THE WRAP, AND HAVE SAMPLES TESTED FOR ASBESTOS IN ACCORDANCE WITH RP 4711.
- TEST RESULTS ARE TO BE INCLUDED WITH AS-BUILTS.
- FOLLOW PROCEDURE IN RP 4711 FOR REMOVAL OF PIPE WRAP.

HYDROSTATIC TEST REQUIREMENTS
HYDROSTATIC TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34 AND SHALL BE CONDUCTED IN ACCORDANCE WITH GAS STANDARD A-37.

1. CALL USA AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION (800) 227-2600.
2. LOCATION OF EXISTING SUBSTRUCTURES ARE APPROXIMATE. BEFORE POWER OR HEAVY EQUIPMENT IS USED FOR EXCAVATION, THE EXACT DEPTH AND LOCATION OF SUBSTRUCTURES SHALL FIRST BE DETERMINED BY HAND EXCAVATION IF NECESSARY.
3. ALL BENDS ARE SMOOTH FIELD BENDS EXCEPT WHERE ELBOWS ARE NOTED. FIELD BEND SHALL BE MADE IN ACCORDANCE WITH GAS STANDARD A-36 SECTION 4-D.
4. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE SHALL BE CUT TO SUIT FIELD CONDITIONS.
5. THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 12 INCHES OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE NOT ASSOCIATED WITH THE PIPELINE.

WELDING VALVES AND FITTINGS
WHEN VALVES AND FITTINGS ARE WELDED TO EACH OTHER OR TO PIPE, THE JOINT SHALL HAVE A TWO PASS WELD ON THE INSIDE, AS WELL AS THE OUTSIDE WELD. IF THE INTERNAL MISALIGNMENT EXCEEDS 3/32", BACK WELDING IS NOT REQUIRED IF THE VALVES AND FITTINGS ARE SUPPLIED ALREADY SHOP-WELDED TO PIPE OF THE SAME WALL THICKNESS AS THE LINE PIPE.

WELDING REQUIREMENTS
ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22.

NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT USA CALL BEFORE YOU DIG.
CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE, TCE CHANGE AND CLARIFICATION	PXA0	WRT6	WRT6	WRT6	

REVISIONS

PSRS ID

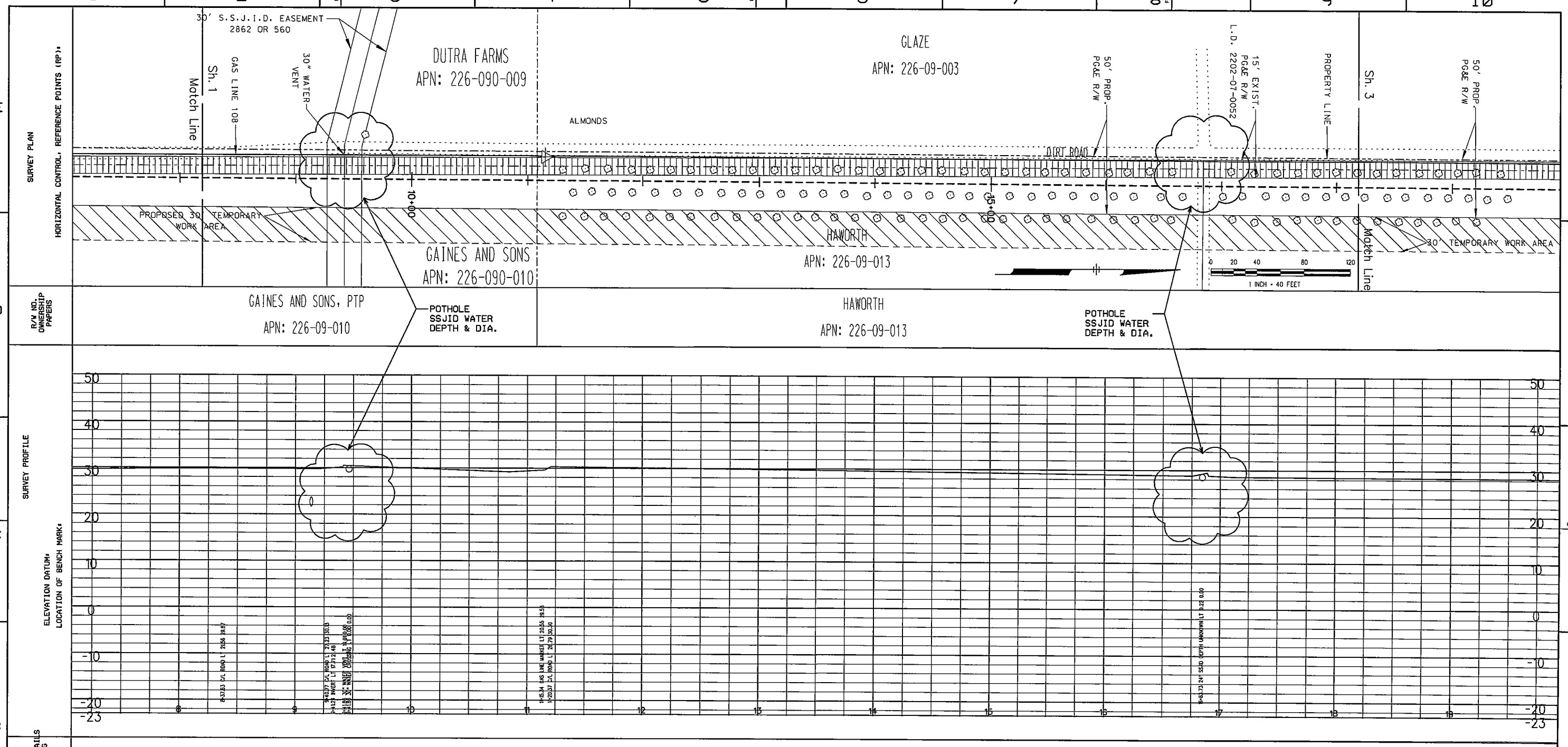
APPROVED BY	
	SD
	SUPV
	DSGN
	DWN P. ATKINS
	CHKD W. TOUTGES
	OK W. TOUTGES
	DATE 02/26/09
	SCALES H: 1"=40' V: 1"=10'

LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 1 OF 13 SHEETS

PH DWG REV 1



LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT
- ELECTRIC BOX

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-30.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

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HYDROSTATIC TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34 AND SHALL BE CONDUCTED IN ACCORDANCE WITH GAS STANDARD A-37.

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4. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE SHALL BE CUT TO SUIT FIELD CONDITIONS.
5. THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 12 INCHES OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE NOT ASSOCIATED WITH THE PIPELINE.

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WELDING REQUIREMENTS
ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22.

NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT USA CALL BEFORE YOU DIG
CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE. TCE CHANGE AND CLARIFICATION		PXA0	WRT6	WRT6	WRT6

REVISIONS

PSRS ID

APPROVED BY	
	SO
	SUPV
	DSGN
	DWN P. ATKINS
	CHKD W. TOUTGES
	OK W. TOUTGES
	DATE 02/26/09
	SCALES H: 1"=40' V: 1"=10'

LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 2 OF 13 SHEETS
PH DWG
REV 1

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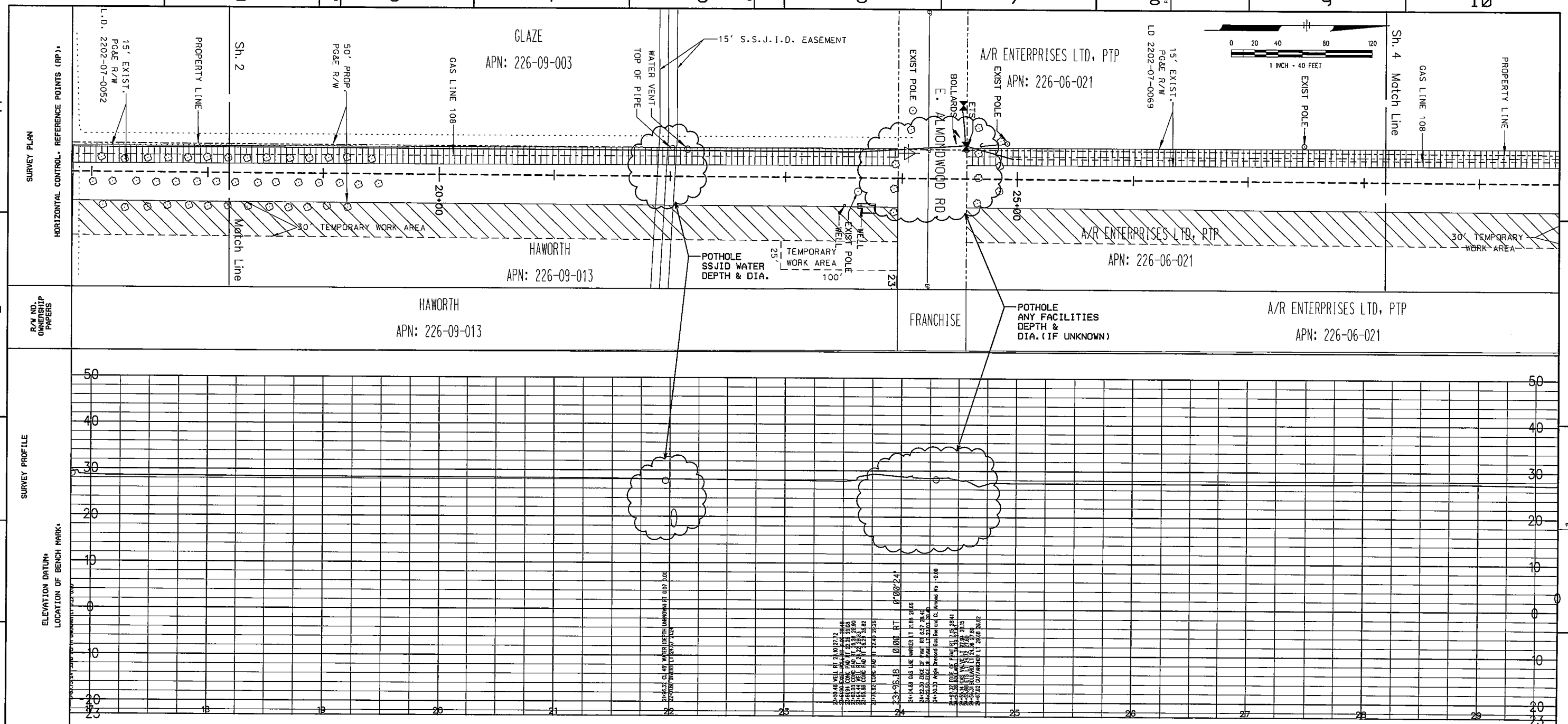

LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT — EP —
- ELECTRIC BOX

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-38.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
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MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
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NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT U.S.A. CALL BEFORE YOU DIG. CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE. TCE CHANGE AND CLARIFICATION	PXA0	WRT6	WRT6	WRT6	

REVISIONS

PSRS ID

APPROVED BY	
	ISD
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LINE 108-MANTECA

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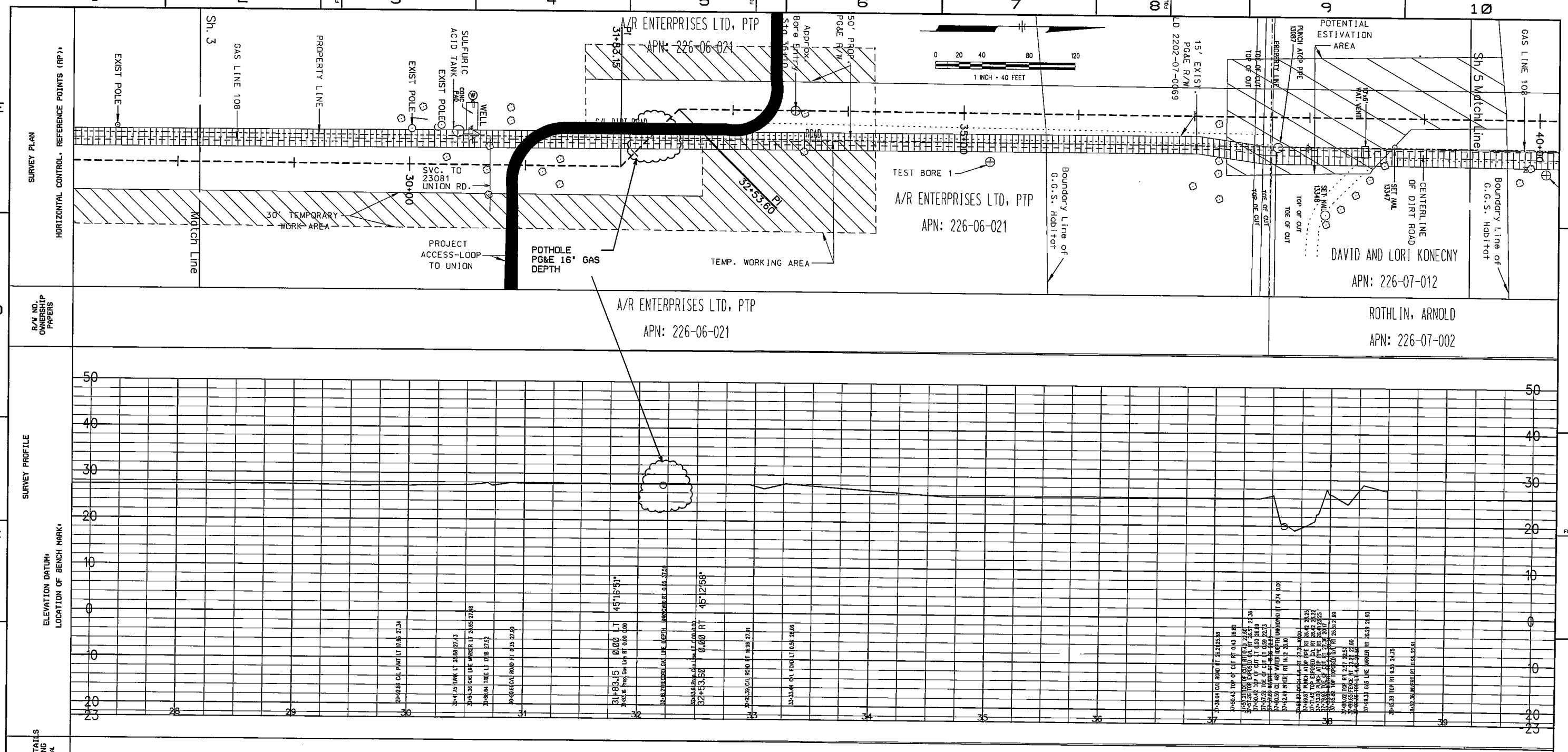

LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT — EP —
- ELECTRIC BOX

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BORED SELECTIONS
MAIN LINE COATING
MINOR REPAIRS
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NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT — CALL BEFORE YOU DIG — CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE. TCE CHANGE AND CLARIFICATION	PXA0	WRT6	WRT6	WRT6	

REVISIONS

APPROVED BY	
SO	
SUPV	
DSGN	
DWN	P. ATKINS
CHKD	W. TOUTGES
OK	W. TOUTGES
DATE	02/26/09
SCALES	H: 1"=40' V: 1"=10'

PSRS ID

LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
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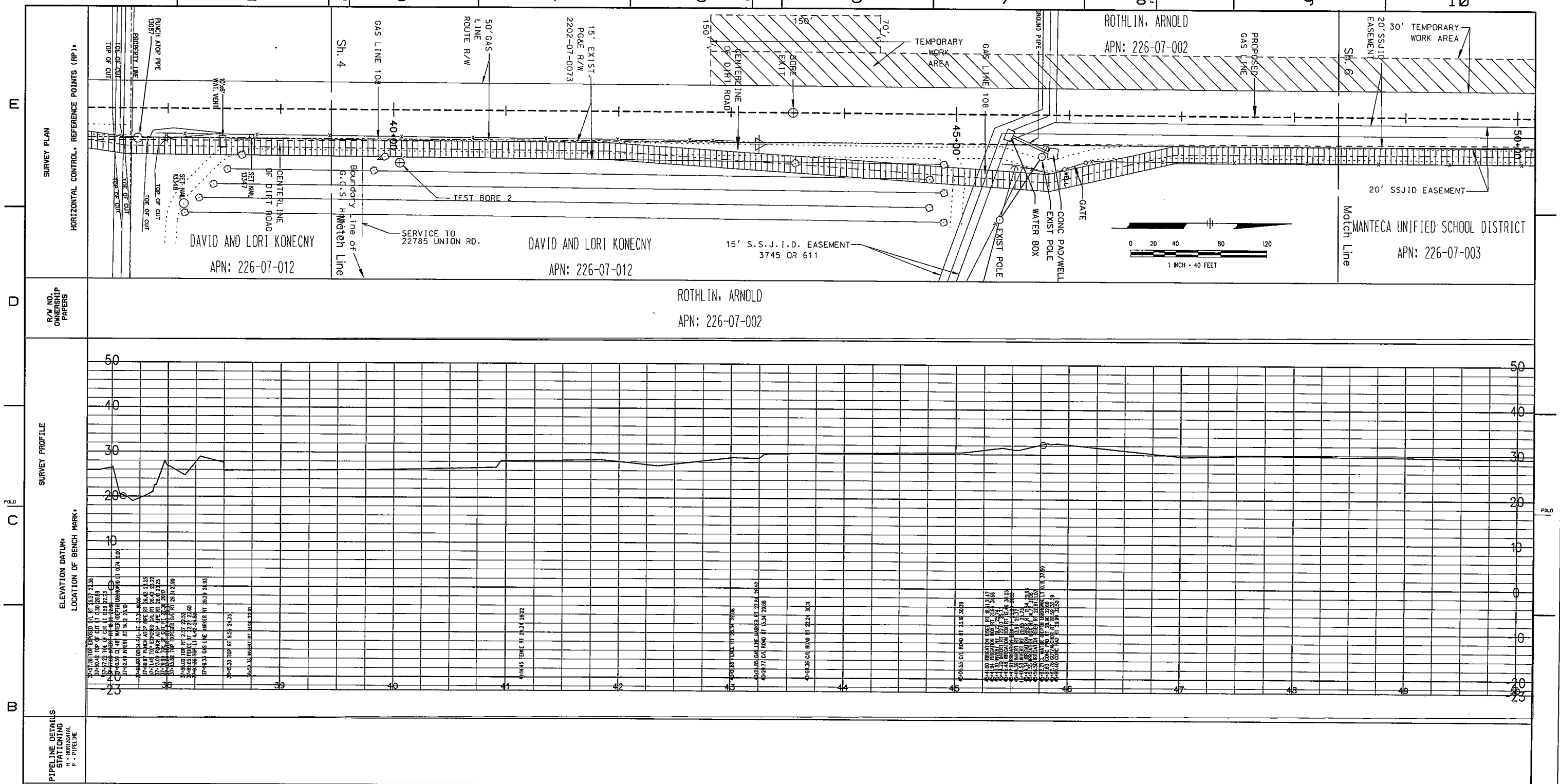
SUPSD BY
SHEET NO. 4 OF 13 SHEETS
PH DWG
REV 1

N1800



LEGEND

- GAS LINE MARKER
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- TREE
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PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-30.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

COATING REMOVAL
BEFORE REMOVING THE PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSIONBONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN:
- FOR ALL NON-EMERGENCY WORK. PRE-1972 PIPE WRAP MUST BE EVALUATED TO DETERMINE IF IT CONTAINS ASBESTOS PRIOR TO REMOVAL.
- FOR EMERGENCY WORK ON PRE-1972 PIPE. ASSUME THE WRAP CONTAINS > 1% ASBESTOS UNTIL THE WRAP CAN BE TESTED.
- OBTAIN SAMPLES OF THE WRAP. AND HAVE SAMPLES TESTED FOR ASBESTOS IN ACCORDANCE WITH RP 4711.
- TEST RESULTS ARE TO BE INCLUDED WITH AS-BUILTS.
- FOLLOW PROCEDURE IN RP 4711 FOR REMOVAL OF PIPE WRAP.

HYDROSTATIC TEST REQUIREMENTS
HYDROSTATIC TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34 AND SHALL BE CONDUCTED IN ACCORDANCE WITH GAS STANDARD A-37.

1. CALL USA AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION (800) 227-2600.
2. LOCATION OF EXISTING SUBSTRUCTURES ARE APPROXIMATE. BEFORE POWER OR HEAVY EQUIPMENT IS USED FOR EXCAVATION. THE EXACT DEPTH AND LOCATION OF SUBSTRUCTURES SHALL FIRST BE DETERMINED BY HAND EXCAVATION IF NECESSARY.
3. ALL BENDS ARE SMOOTH FIELD BENDS EXCEPT WHERE ELBOWS ARE NOTED. FIELD BEND SHALL BE MADE IN ACCORDANCE WITH GAS STANDARD A-36 SECTION 4-D.
4. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE SHALL BE CUT TO SUIT FIELD CONDITIONS.
5. THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 12 INCHES OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE NOT ASSOCIATED WITH THE PIPELINE.

WELDING VALVES AND FITTINGS
WHEN VALVES AND FITTINGS ARE WELDED TO EACH OTHER OR TO PIPE. THE JOINT SHALL HAVE A TWO PASS WELD ON THE INSIDE. AS WELL AS THE OUTSIDE WELD. IF THE INTERNAL MISALIGNMENT EXCEEDS 3/32". BACK WELDING IS NOT REQUIRED IF THE VALVES AND FITTINGS ARE SUPPLIED ALREADY SHOP-WELDED TO PIPE OF THE SAME WALL THICKNESS AS THE LINE PIPE.

WELDING REQUIREMENTS
ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22.

NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT USA CALL BEFORE YOU DIG.
CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE. TCE CHANGE AND CLARIFICATION	PXAB	WRTG	WRTG	WRTG	

REVISIONS

APPROVED BY	
	SO
	SUPV
	DSGN
DWN	P. ATKINS
CHKD	W.TOUTGES
OK	W.TOUTGES
DATE	02/26/09
SCALES	H: 1"=40' V: 1"=10'

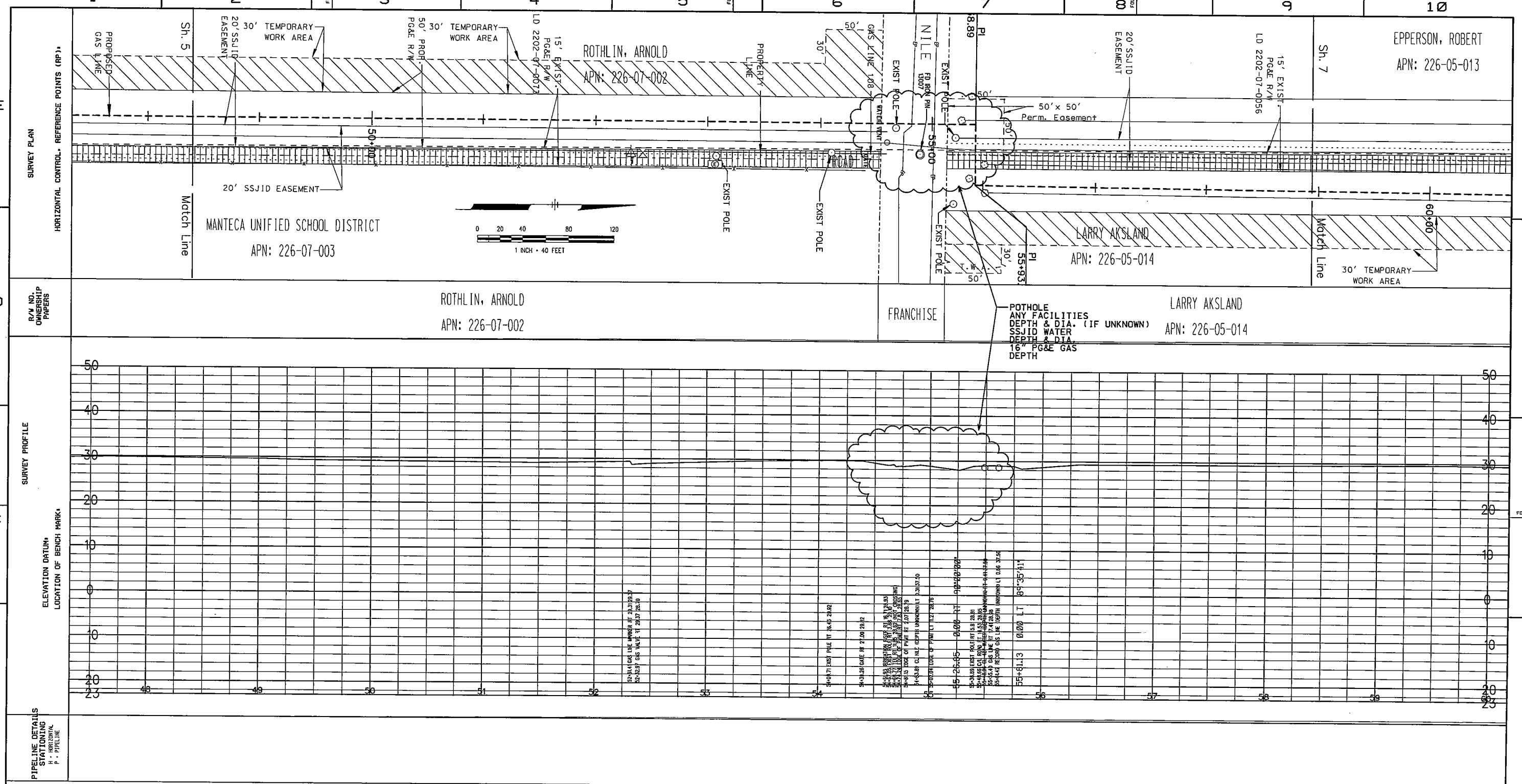
PSRS ID

LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 5 OF 13 SHEETS
PH DWG
REV 1

N1009



PIPELINE DETAILS
STATIONING
H - HORIZONTAL
P - PIPELINE

LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT — EP
- ELECTRIC BOX

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-38.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

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BEFORE REMOVING THE PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSIONBONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN:
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- OBTAIN SAMPLES OF THE WRAP, AND HAVE SAMPLES TESTED FOR ASBESTOS IN ACCORDANCE WITH RP 4711.
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- FOLLOW PROCEDURE IN RP 4711 FOR REMOVAL OF PIPE WRAP.

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HYDROSTATIC TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34 AND SHALL BE CONDUCTED IN ACCORDANCE WITH GAS STANDARD A-37.

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4. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE SHALL BE CUT TO SUIT FIELD CONDITIONS.
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WELDING REQUIREMENTS
ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22.

NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT USA CALL BEFORE YOU DIG
CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE, TCE CHANGE AND CLARIFICATION	PXA0	WRT6	WRT6	WRT6	

REVISIONS

PSRS ID

APPROVED BY	
SO	
SUPV	
DSGN	
DWN	P. ATKINS
CHKD	W. TOUTOES
OK	W. TOUTOES
DATE	02/26/09
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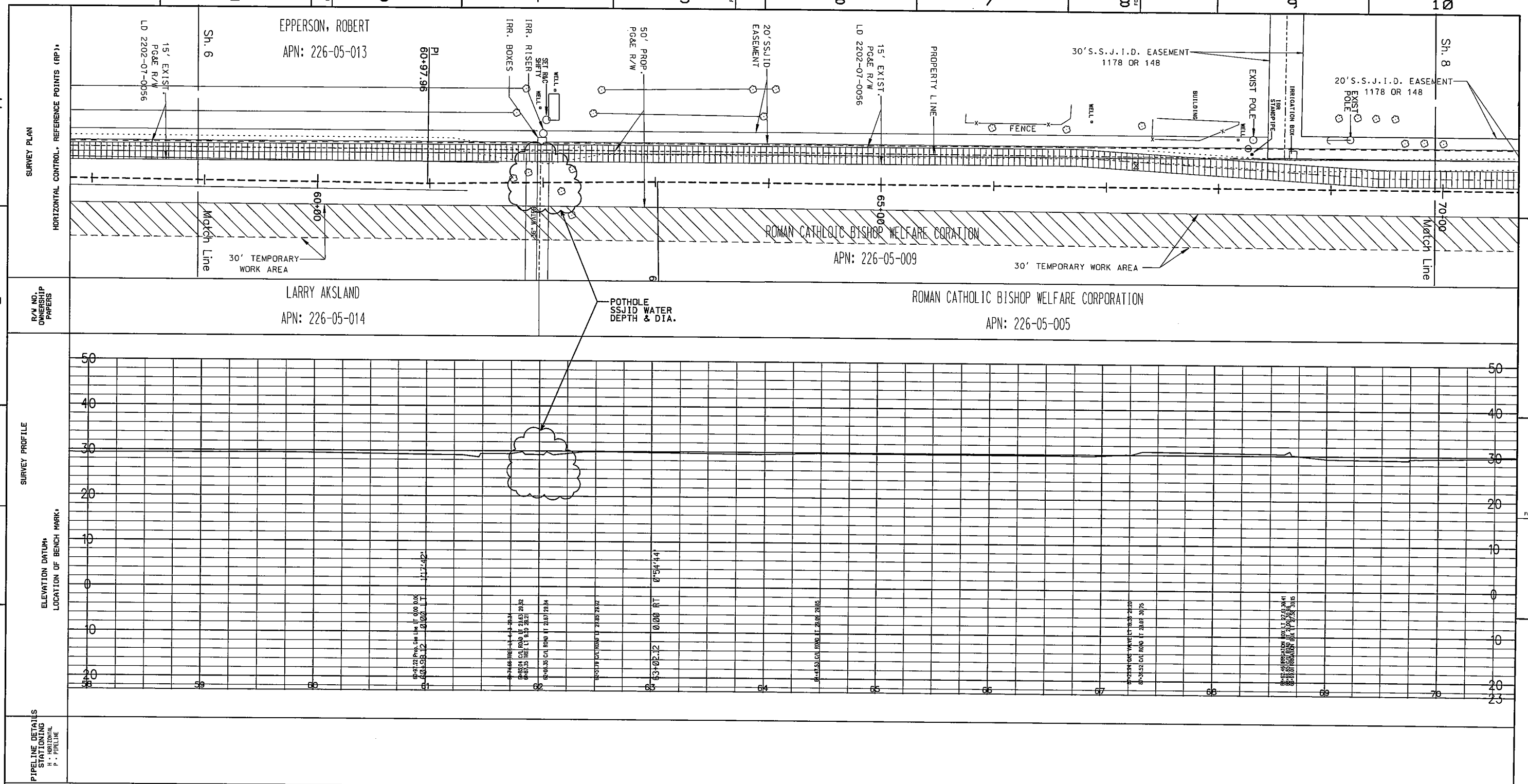
LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 6 OF 13 SHEETS
PH DWG
REV 1

N1900



LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT — EP
- ELECTRIC BOX

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-33.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

COATING REMOVAL
BEFORE REMOVING THE PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSIONBONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN:
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5. THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 12 INCHES OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE NOT ASSOCIATED WITH THE PIPELINE.

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WELDING REQUIREMENTS
ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22.

NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT — CALL BEFORE YOU DIG — CALL: 811

NO.	DATE	DESCRIPTION	GH/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE. TCE CHANGE AND CLARIFICATION	PX00	WRT6	WRT6	WRT6	

REVISIONS

PSRS ID

APPROVED BY	
SO	
SUPV	
DSGN	
DWN	P. ATKINS
CHKD	V. TOUTGES
OK	V. TOUTGES
DATE	02/26/09
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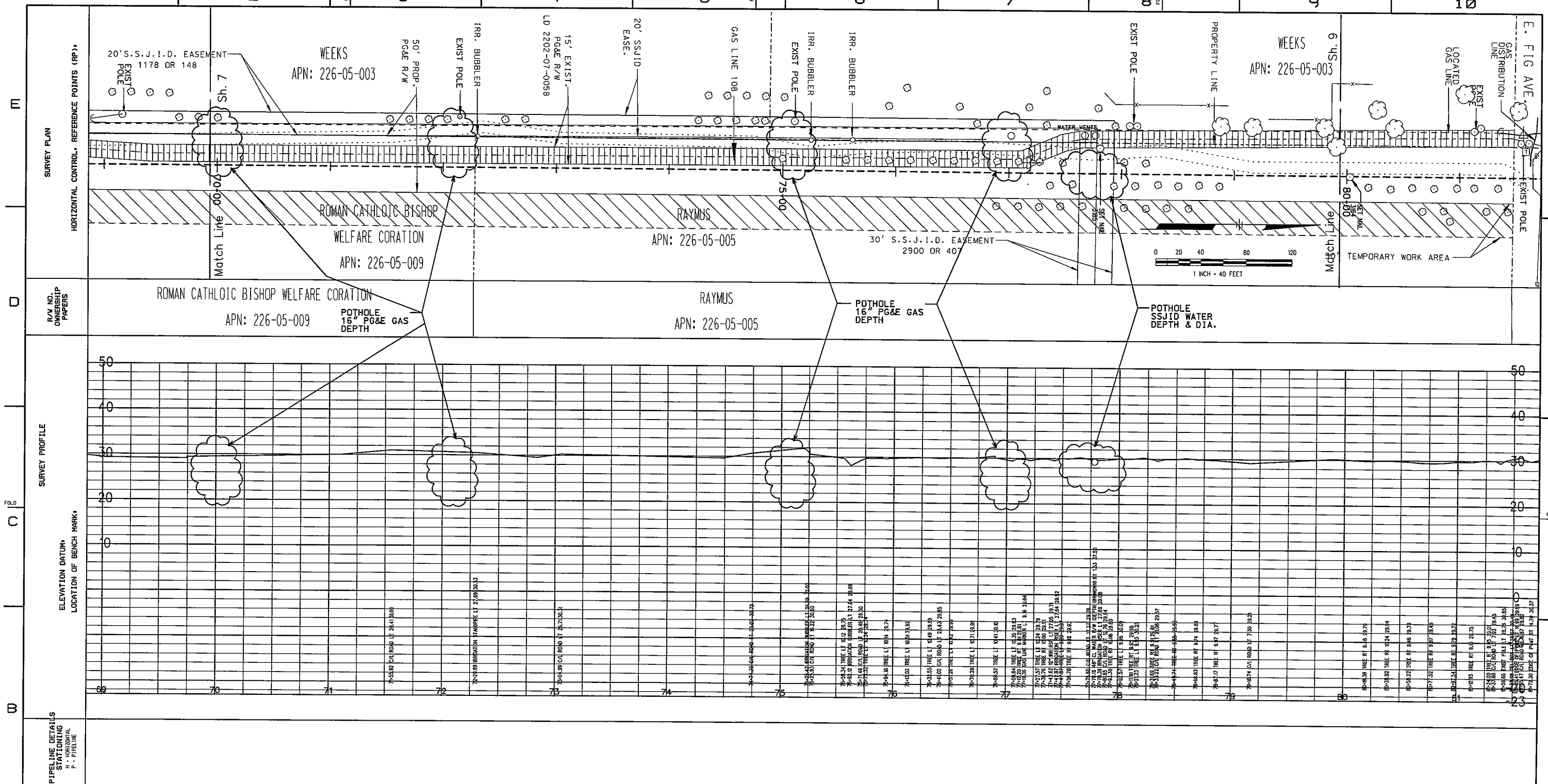
LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 7 OF 13 SHEETS
PH DWG
REV 1



LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT — EP —
- ELECTRIC BOX

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-30.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-25.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

COATING REMOVAL
BEFORE REMOVING THE PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSIONBONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN:
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WELDING VALVES AND FITTINGS
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WELDING REQUIREMENTS
ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22.

NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT — CALL BEFORE YOU DIG — CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE. TCE CHANGE AND CLARIFICATION	PXA0	WRT6	WRT6	WRT6	

REVISIONS

PSRS ID

APPROVED BY	
SO	
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OK	W. TOUTGES
DATE	02/26/09
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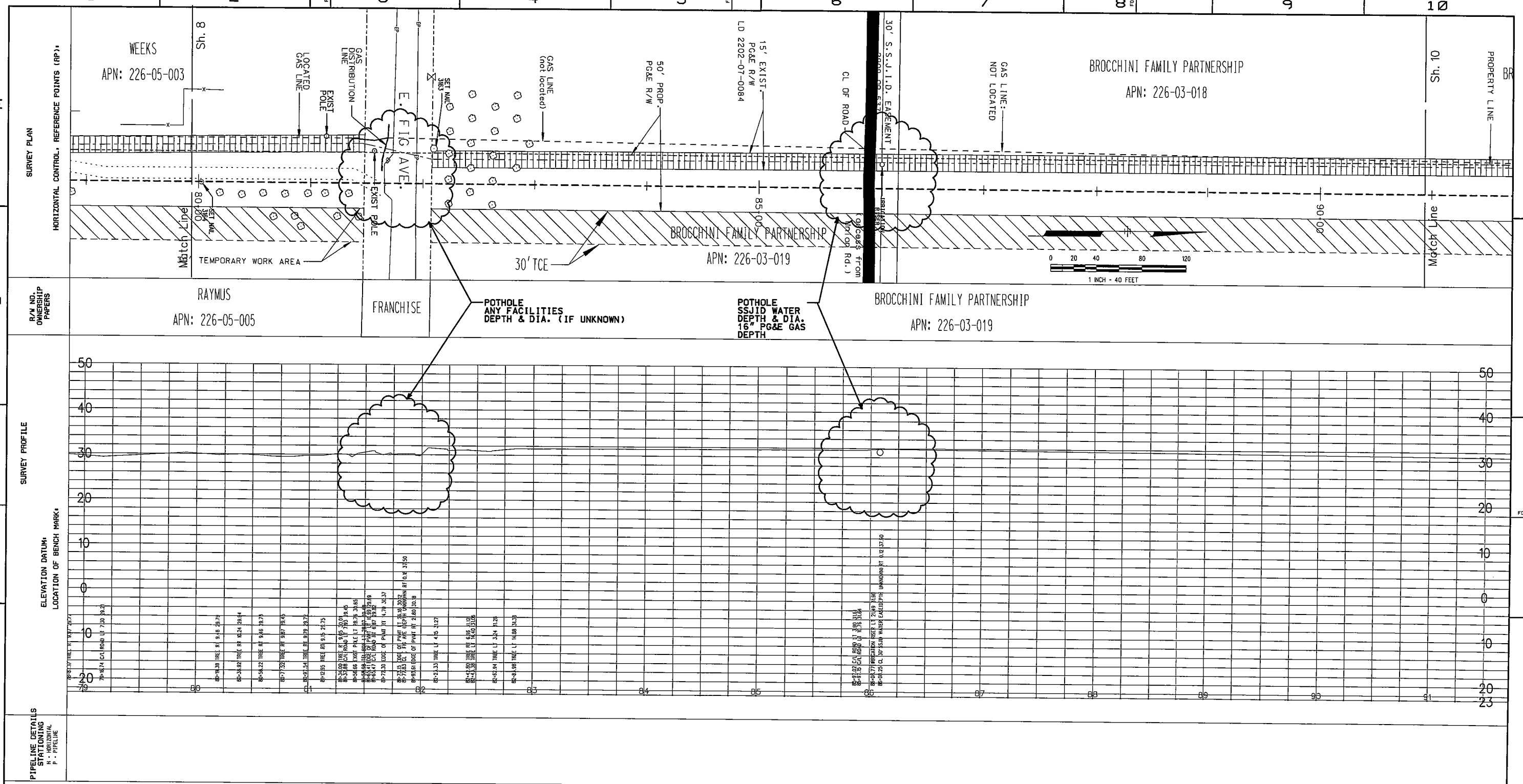
LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 8 OF 13 SHEETS
PH DWG
REV 1

N1008



LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT — EP —
- ELECTRIC BOX (E)

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-38.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

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NOTIFIED U.S.A.
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CALL: 811

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1	02/26/09	LINE CHANGE, TCE CHANGE AND CLARIFICATION	PXAB	WRTG	WRTG	WRTG	

REVISIONS

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LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

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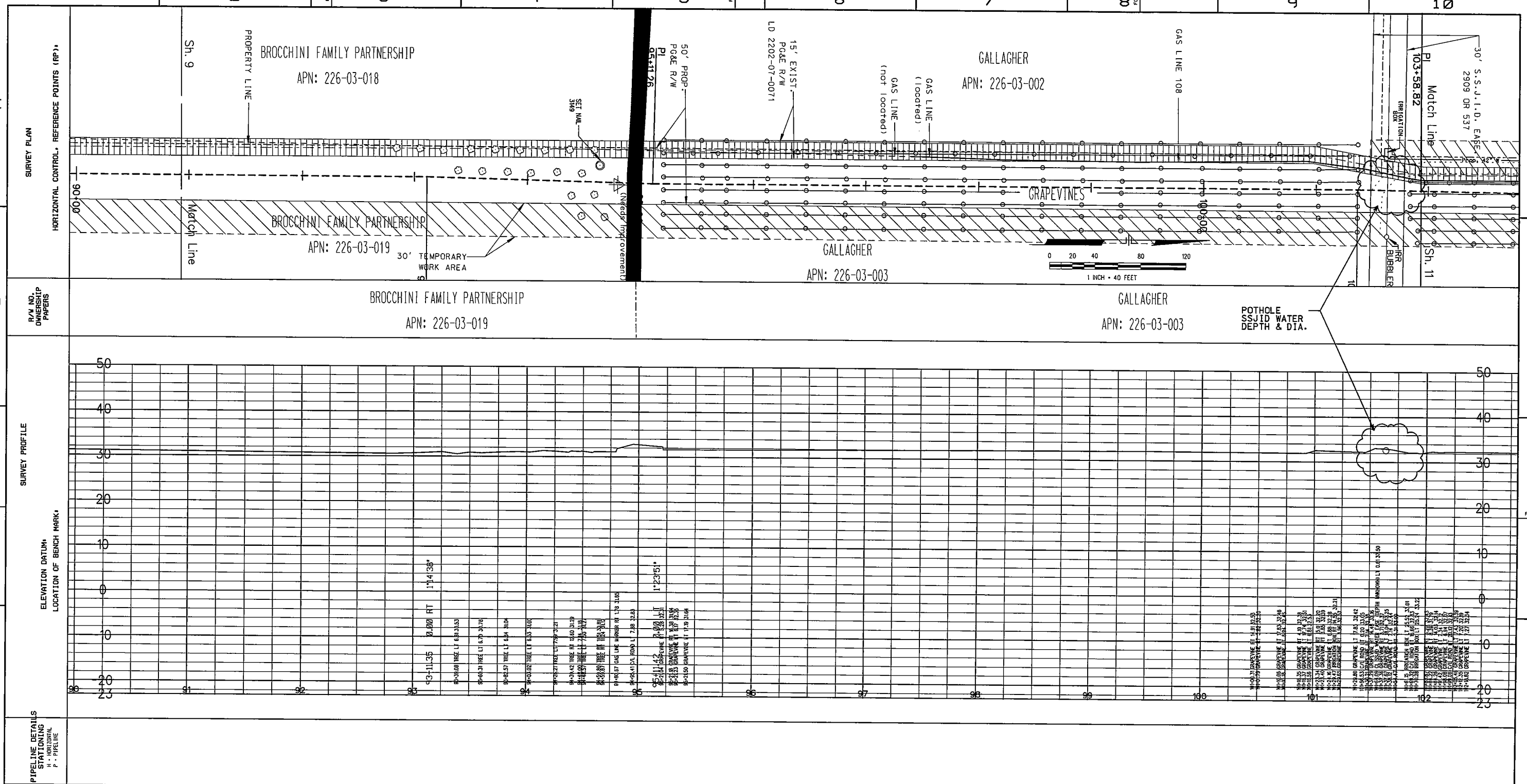

LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT
- ELECTRIC BOX

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FITTING COATING:	
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TRANSITION ZONES:	

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MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

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OK	W.TOUTGES
DATE	02/26/09
SCALES	H: 1"=40' V: 1"=10'

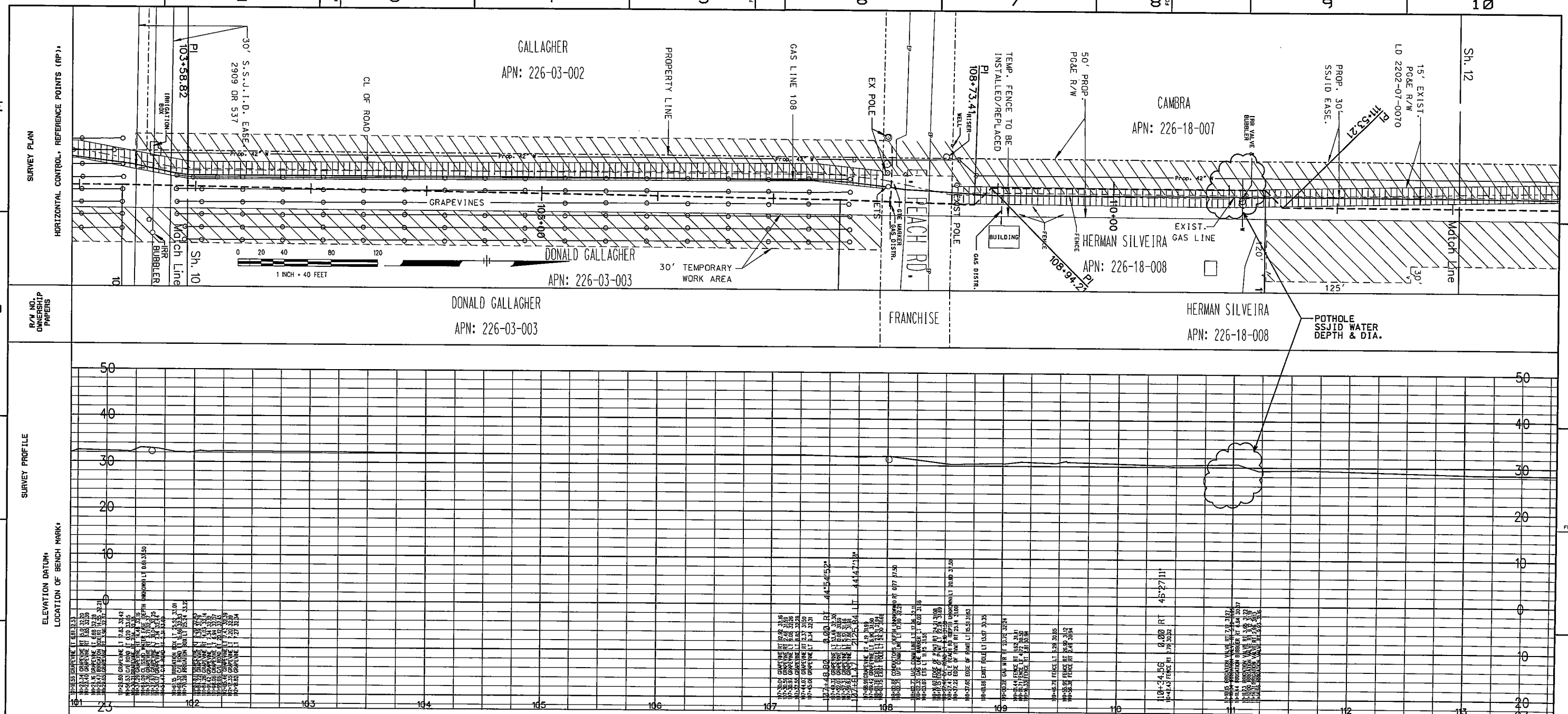
LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 10 OF 13 SHEETS

PH DWG | REV 1

N1808



LEGEND

- GAS LINE MARKER
- ELECTRIC POLE
- FENCE
- TREE
- WATER VALVE
- GAS VALVE
- WELL
- EDGE OF PAVEMENT
- ELECTRIC BOX

PAINTING AND COATING REQUIREMENTS
ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-30.
ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
TIE-IN WELDS:	
MAIN LINE COATING:	
GIRTH WELD COATING:	
FITTING COATING:	
MINOR REPAIRS:	
TRANSITION ZONES:	

BORED SELECTIONS	
MAIN LINE COATING	
MINOR REPAIRS	
GIRTH WELD COATING	

COATING REMOVAL
BEFORE REMOVING THE PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSIONBONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN:
- FOR ALL NON-EMERGENCY WORK. PRE-1972 PIPE WRAP MUST BE EVALUATED TO DETERMINE IF IT CONTAINS ASBESTOS PRIOR TO REMOVAL.
- FOR EMERGENCY WORK ON PRE-1972 PIPE. ASSUME THE WRAP CONTAINS > 1% ASBESTOS UNTIL THE WRAP CAN BE TESTED.
- OBTAIN SAMPLES OF THE WRAP, AND HAVE SAMPLES TESTED FOR ASBESTOS IN ACCORDANCE WITH RP 4711.
- TEST RESULTS ARE TO BE INCLUDED WITH AS-BUILTS.
- FOLLOW PROCEDURE IN RP 4711 FOR REMOVAL OF PIPE WRAP.

HYDROSTATIC TEST REQUIREMENTS
HYDROSTATIC TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34 AND SHALL BE CONDUCTED IN ACCORDANCE WITH GAS STANDARD A-37.

1. CALL USA AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION (800) 227-2600.
2. LOCATION OF EXISTING SUBSTRUCTURES ARE APPROXIMATE. BEFORE POWER OR HEAVY EQUIPMENT IS USED FOR EXCAVATION, THE EXACT DEPTH AND LOCATION OF SUBSTRUCTURES SHALL FIRST BE DETERMINED BY HAND EXCAVATION IF NECESSARY.
3. ALL BENDS ARE SMOOTH FIELD BENDS EXCEPT WHERE ELBOWS ARE NOTED. FIELD BEND SHALL BE MADE IN ACCORDANCE WITH GAS STANDARD A-38 SECTION 4-D.
4. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE SHALL BE CUT TO SUIT FIELD CONDITIONS.
5. THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 12 INCHES OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE NOT ASSOCIATED WITH THE PIPELINE.

WELDING VALVES AND FITTINGS
WHEN VALVES AND FITTINGS ARE WELDED TO EACH OTHER OR TO PIPE, THE JOINT SHALL HAVE A TWO PASS WELD ON THE INSIDE. AS WELL AS THE OUTSIDE WELD. IF THE INTERNAL MISALIGNMENT EXCEEDS 3/32", BACK WELDING IS NOT REQUIRED IF THE VALVES AND FITTINGS ARE SUPPLIED ALREADY SHOP-WELDED TO PIPE OF THE SAME WALL THICKNESS AS THE LINE PIPE.

WELDING REQUIREMENTS
ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22.

NOTIFIED U.S.A.
DATE TICKET NO. BY

UNDERGROUND SERVICE ALERT — CALL BEFORE YOU DIG — CALL: 811

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
1	02/26/09	LINE CHANGE. TCE CHANGE AND CLARIFICATION	PXA0	WRT6		WRT6	WRT6

REVISIONS

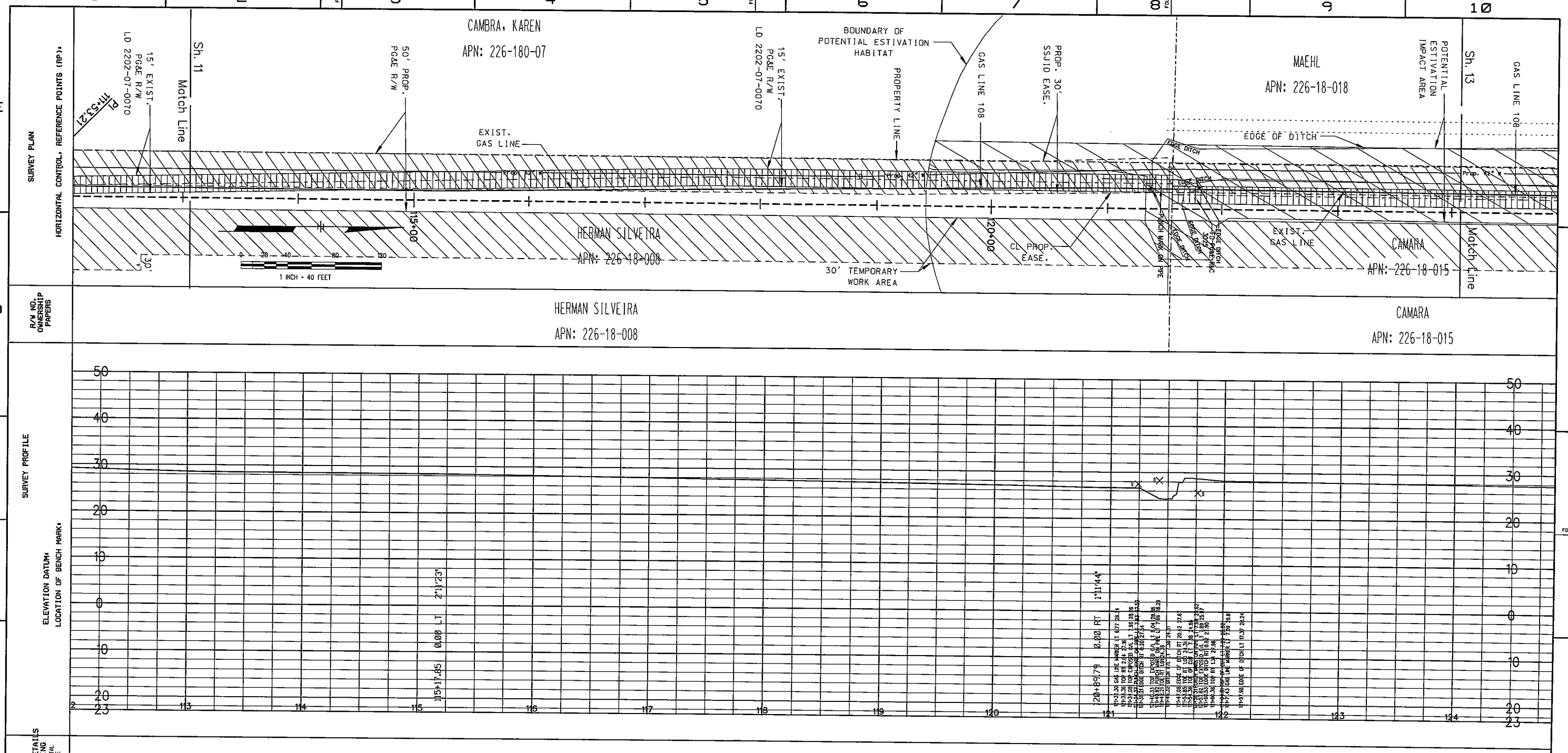
APPROVED BY: SO / SUPV / DSGN / DWN P. ATKINS / CHKD W. TOUTGES / OK W. TOUTGES / DATE 02/26/09 / SCALES H: 1"=40' V: 1"=10'

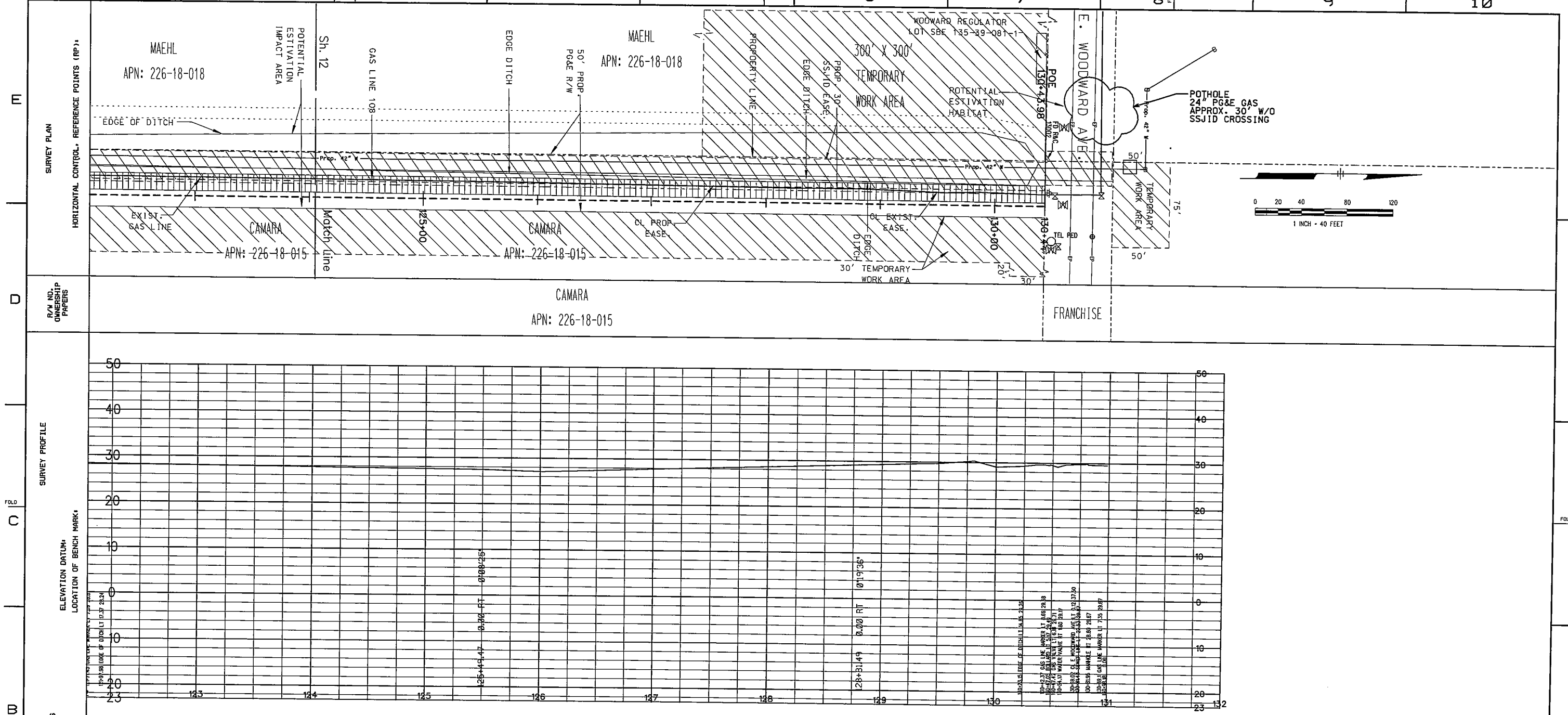
PSRS ID

LINE 108-MANTECA

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

MICROFILM
BILL OF MATL
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 11 OF 13 SHEETS
PH DWG — REV 1


SURVEY PLAN
HORIZONTAL CONTROL, REFERENCE POINTS (RP),
R/W NO. OWNERSHIP PAPERS
SURVEY PROFILE
ELEVATION DATUM:
LOCATION OF BENCH MARK:
PIPELINE DETAILS STATIONING
H - HORIZONTAL
P - PIPELINE
CAMBRA, KAREN
APN: 226-180-07
15' EXIST. PG&E R/W LD 2202-07-0070
PI 111+53.21
Sh. 11
Match Line
50' PROP. PG&E R/W
15' EXIST. PG&E R/W LD 2202-07-0070
BOUNDARY OF POTENTIAL ESTIVATION HABITAT
PROPERTY LINE
GAS LINE 108
PROP. 30' SSJID EASE.
MAEHL
APN: 226-18-018
POTENTIAL ESTIVATION IMPACT AREA
Sh. 13
GAS LINE 108
EXIST. GAS LINE
EDGE OF DITCH
EDGE DITCH
EDGE DITCH
EDGE



LEGEND

- GAS LINE MARKER
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- FENCE
- TREE
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- WELL
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REVISIONS

APPROVED BY	
SO	
SUPV	
DSGN	
DWN	P. ATKINS
CHKD	W. TOUTGES
OK	W. TOUTGES
DATE	02/26/09
SCALES	H: 1"=40' V: 1"=10'

PSRS ID

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PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

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SHEET NO. 13 OF 13 SHEETS	
PH DWG	REV 1

N1809