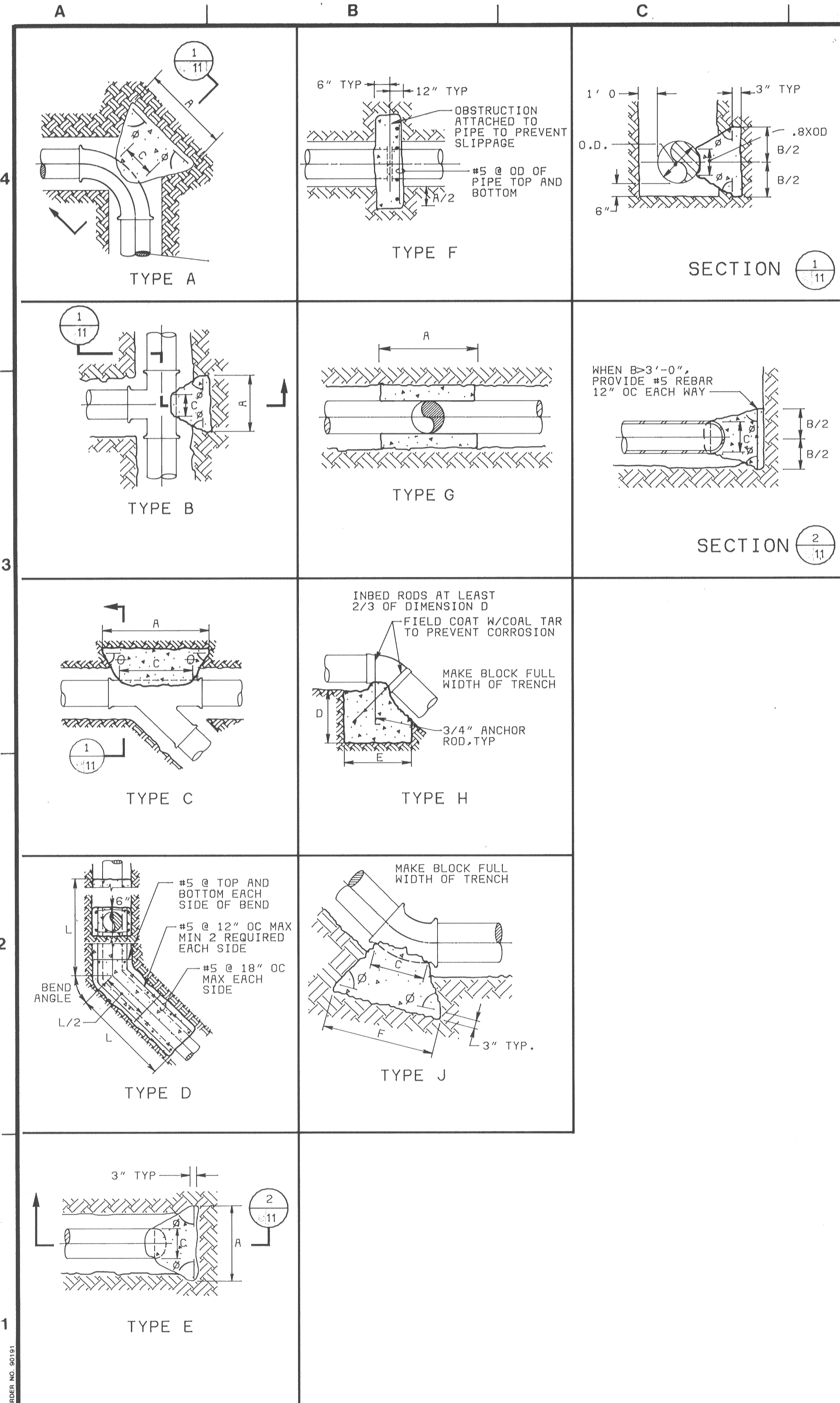


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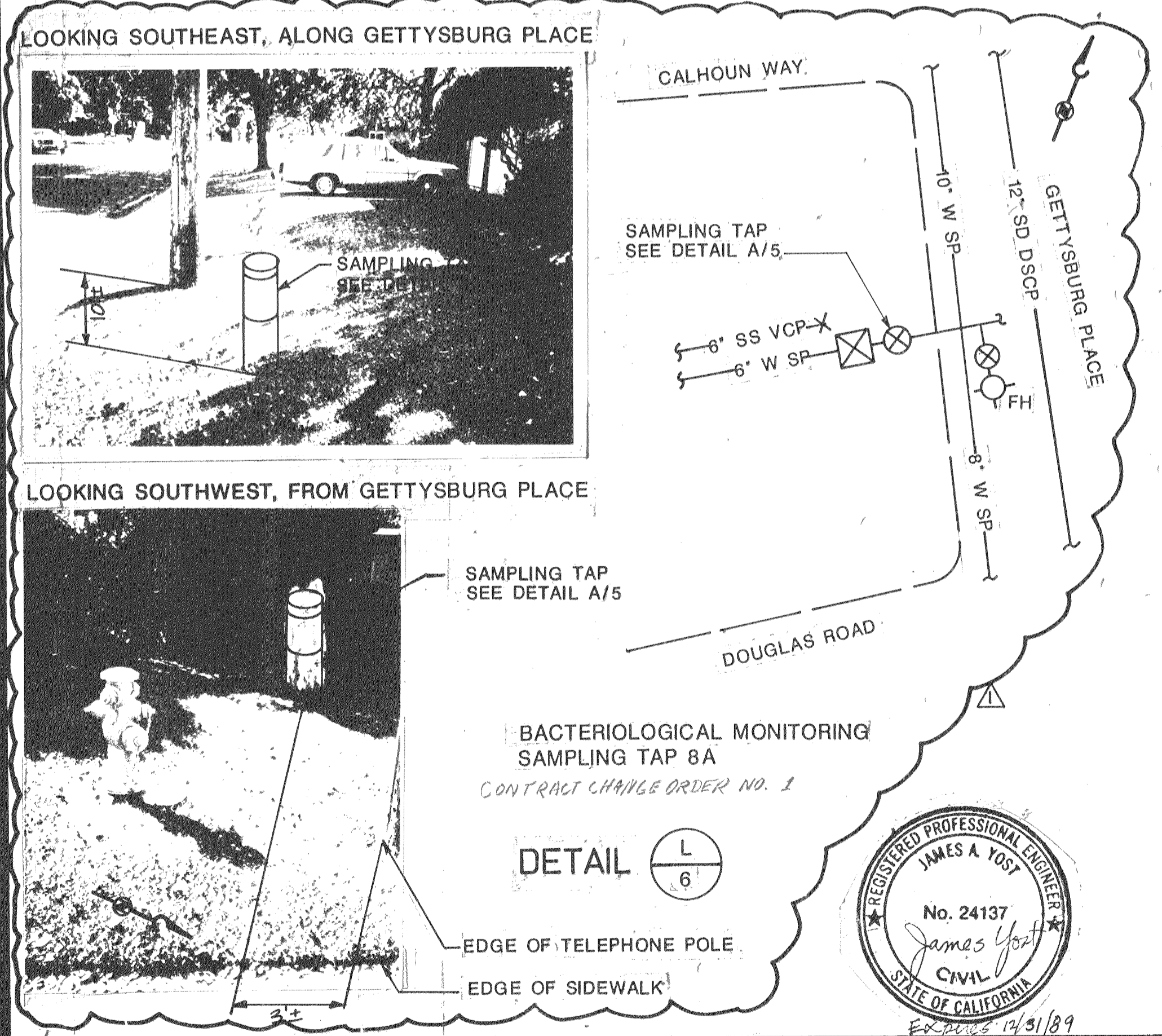
ZONE	REV	DESCRIPTION	BY	DATE	APP
AS BUILT			JEM	1/21/87	



**STANDARD THRUST BLOCK SCHEDULE - UNDISTURBED SOIL**

NOMINAL PIPE DIAMETER (INCHES)	TEST PRESSURE (PSI)	DEAD ENDS AND TEES			ANGLE (DEG)	HORIZONTAL BENDS LESS THAN OR EQUAL TO ANGLE												VERTICAL BENDS				ALL BENDS							
		A	B	C		11-1/4°			22-1/2°			45°			90°			ALL ANGLES		ALTERNATE DETAIL D			UPWARD		DOWNWARD				
						A	B	C	A	B	C	A	B	C	A	B	C	L	L	L	L		F	F	D	E	D	E	C
≤3	0-30	0'-6"	1'-3"	3"	+45	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	3"	1'-0"	1'-0"	1'-0"	1'-0"	0'-6"	0'-6"	0'-9"	1'-6"	1'-0"	2'-0"	1'-3"	2'-6"	3"
≤3	30-75	0'-9"	1'-3"	3"	+45	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	3"	1'-0"	1'-0"	1'-0"	1'-6"	0'-6"	0'-9"	1'-0"	2'-0"	1'-3"	2'-6"	3"	3"	
≤3	75-150	1'-0"	1'-3"	3"	+45	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	0'-6"	1'-3"	3"	1'-0"	1'-0"	1'-6"	2'-6"	0'-6"	1'-0"	1'-3"	2'-6"	1'-9"	3'-6"	3"	3"	
≤3	150-225	1'-6"	1'-3"	3"	+45	0'-6"	1'-3"	0'-9"	1'-3"	1'-3"	1'-3"	2'-0"	1'-3"	3"	1'-0"	1'-6"	2'-3"	3'-6"	0'-9"	1'-6"	1'-6"	3'-0"	2'-0"	4'-0"	4'-0"	3"	3"	3"	
4	0-30	0'-6"	1'-6"	4"	+45	0'-6"	1'-6"	0'-6"	1'-6"	0'-6"	1'-6"	0'-6"	1'-6"	1'-6"	4"	1'-0"	1'-0"	1'-0"	1'-0"	0'-6"	0'-6"	1'-0"	2'-0"	1'-0"	2'-0"	4"	4"	4"	
4	30-75	1'-0"	1'-6"	4"	+45	0'-6"	1'-6"	0'-6"	1'-6"	0'-9"	1'-6"	1'-3"	1'-6"	4"	1'-0"	1'-0"	1'-6"	2'-6"	0'-6"	0'-9"	1'-3"	2'-6"	1'-6"	3'-0"	4"	4"	4"	4"	
4	75-150	1'-6"	1'-6"	4"	+45	0'-6"	1'-6"	0'-9"	1'-6"	1'-6"	1'-6"	2'-3"	1'-6"	4"	1'-0"	1'-6"	2'-6"	4'-6"	0'-9"	1'-6"	1'-6"	3'-0"	2'-3"	4'-6"	4"	4"	4"	4"	
4	150-225	2'-6"	1'-6"	4"	+45	0'-6"	1'-6"	1'-0"	1'-6"	2'-0"	1'-6"	3'-6"	1'-6"	4"	1'-3"	2'-6"	4'-0"	6'-6"	1'-3"	2'-0"	2'-0"	4'-0"	2'-9"	5'-6"	4"	4"	4"	4"	
6	0-30	0'-9"	1'-6"	6"	+45	0'-6"	1'-6"	0'-6"	1'-6"	0'-9"	1'-6"	1'-3"	1'-6"	6"	1'-0"	1'-0"	1'-3"	2'-0"	0'-6"	0'-9"	1'-0"	2'-0"	1'-6"	3'-0"	6"	6"	6"	6"	
6	30-75	1'-9"	1'-6"	6"	+45	0'-6"	1'-6"	0'-9"	1'-6"	1'-6"	1'-6"	2'-6"	1'-6"	6"	1'-0"	1'-9"	3'-0"	5'-0"	0'-9"	1'-6"	1'-9"	3'-6"	2'-3"	4'-6"	6"	6"	6"	6"	
6	75-150	3'-0"	1'-6"	6"	+45	0'-9"	1'-6"	0'-3"	1'-6"	2'-6"	1'-6"	4'-6"	1'-6"	6"	2'-0"	3'-9"	6'-0"	10'-0"	1'-6"	3'-0"	2'-6"	5'-0"	3'-3"	6'-6"	6"	6"	6"	6"	
8	0-30	1'-0"	1'-9"	8"	+45	0'-6"	1'-9"	0'-6"	1'-9"	1'-0"	1'-9"	4'-6"	1'-9"	8"	1'-0"	1'-0"	1'-6"	2'-9"	0'-6"	1'-0"	1'-6"	3'-0"	2'-0"	4'-0"	8"	8"	8"	8"	
8	30-75	2'-6"	1'-9"	8"	+45	0'-6"	1'-9"	1'-0"	1'-9"	2'-0"	1'-9"	3'-6"	1'-9"	8"	1'-6"	2'-6"	4'-0"	6'-6"	1'-6"	2'-6"	2'-3"	4'-6"	3'-0"	6'-0"	8"	8"	8"	8"	
8	75-150	5'-0"	1'-9"	8"	+45	1'-0"	1'-9"	2'-0"	1'-9"	3'-6"	1'-9"	7'-0"	1'-9"	8"	2'-9"	5'-0"	8'-0"	13'-0"	2'-6"	4'-6"	3'-0"	6'-0"	4'-3"	8'-6"	8"	8"	8"	8"	
10	0-30	1'-6"	1'-9"	10"	+45	0'-6"	1'-9"	0'-9"	1'-9"	1'-6"	1'-9"	2'-6"	1'-9"	10"	1'-0"	1'-3"	2'-0"	3'-3"	1'-0"	1'-6"	1'-9"	3'-6"	2'-3"	4'-6"	10"	10"	10"	10"	
10	30-75	3'-6"	1'-9"	10"	+45	0'-9"	1'-9"	1'-6"	1'-9"	3'-0"	1'-9"	5'-6"	1'-9"	10"	1'-3"	3'-0"	5'-0"	8'-0"	2'-0"	3'-6"	2'-9"	5'-6"	3'-6"	7'-0"	10"	10"	10"	10"	
10	75-150	7'-0"	1'-9"	10"	+45	1'-6"	1'-9"	3'-0"	1'-9"	5'-5"	1'-9"	10'-0"	1'-9"	10"	3'-6"	6'-0"	10'-0"	16'-0"	3'-6"	6'-6"	3'-9"	7'-6"	5'-0"	10'-0"	10"	10"	10"	10"	
10	150-225	10'-0"	1'-9"	10"	+45	2'-0"	1'-9"	4'-6"	1'-9"	8'-0"	1'-9"	15'-0"	1'-9"	10"	5'-0"	8'-9"	15'-0"	24'-0"	5'-6"	9'-6"	4'-6"	9'-0"	6'-0"	12'-0"	10"	10"	10"	10"	
12	0-30	2'-0"	2'-0"	12"	+45	0'-6"	2'-0"	1'-0"	2'-0"	1'-6"	2'-0"	3'-0"	2'-0"	12"	1'-0"	1'-6"	2'-6"	3'-9"	1'-0"	2'-0"	2'-0"	4'-0"	2'-9"	5'-6"	12"	12"	12"	12"	
12	30-75	5'-0"	2'-0"	12"	+45	1'-0"	2'-0"	2'-0"	2'-0"	4'-0"	2'-0"	7'-0"	2'-0"	12"	2'-0"	3'-6"	6'-0"	9'-6"	2'-6"	5'-0"	3'-0"	6'-0"	4'-3"	8'-6"	12"	12"	12"	12"	
12	75-150	9'-0"	2'-0"	12"	+45	1'-9"	2'-0"	3'-6"	2'-0"	7'-0"	2'-0"	13'-0"	2'-0"	12"	3'-9"	7'-0"	11'-9"	19'-0"	4'-6"	8'-6"	4'-3"	8'-6"	6'-0"	12'-0"	12"	12"	12"	12"	

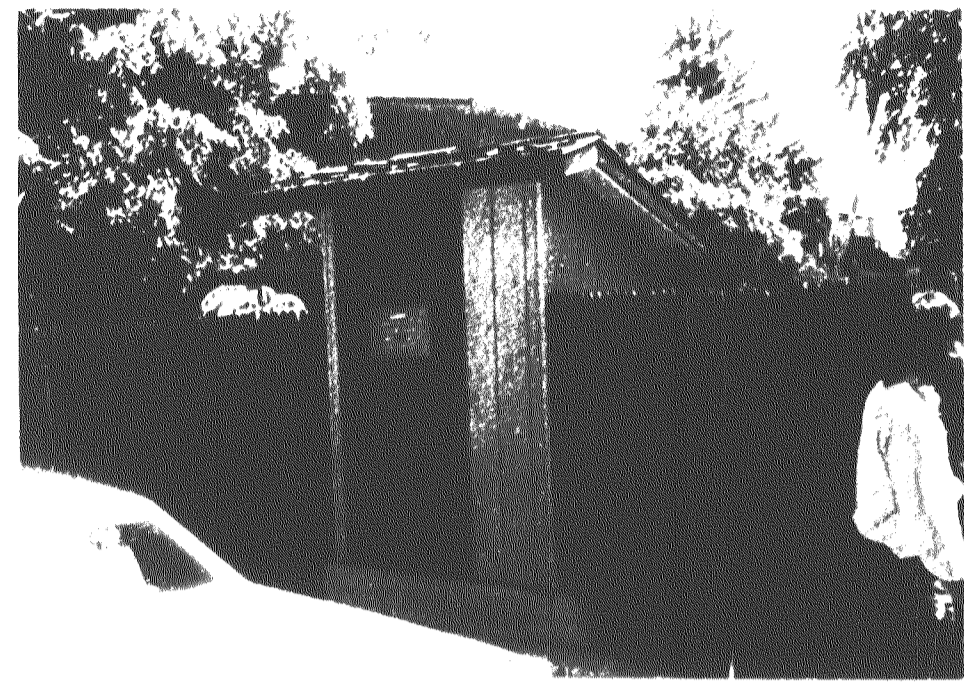
- NOTES:
- THE ABOVE SCHEDULE AND DETAILS SHALL APPLY TO ALL BURIED PRESSURE PIPING.
  - FITTINGS TO RECEIVE POLYETHYLENE WRAPPING SHALL BE WRAPPED PRIOR TO POURING THRUST BLOCK.
  - THRUST BLOCK SIZES BASED ON A UNIT PASSIVE SOIL PRESSURE OF 300 PSF PER FOOT OF DEPTH, WITH A MINIMUM SOIL COVER OF 3'-0".
  - THRUST BLOCKS SHALL BE POURED SOLIDLY AGAINST FIRM, UNDISTURBED SOIL WITH PASSIVE PRESSURE EQUAL TO OR GREATER THAN THAT SHOWN IN NOTE 4.
  - IF LOOSE OR PREVIOUSLY BACKFILLED SOILS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE ENGINEER WHO MAY ADJUST THE DIMENSIONS SHOWN IN THE SCHEDULE.
  - CONCRETE COMPRESSIVE STRENGTH SHALL MEET SPECIFICATIONS FOR 3000 PSI AT 28 DAYS CURING WHEN TESTED IN ACCORDANCE WITH ASTM C39.
  - DIMENSIONS SHOWN REFER TO THRUST BLOCK TYPES "A" THROUGH "J", AND ARE MINIMUM VALUES ONLY.
  - MINIMUM C-DIMENSIONS SHOWN ON THE DETAILS SHALL BE EQUAL TO PIPE OD.
  - CONCRETE SHALL NOT EXTEND BEYOND THE ENDS OF PIPE FITTINGS WITHOUT APPROVAL OF THE ENGINEER.
  - MINIMUM VALUE OF THRUST BLOCK ANGLE  $\phi$  SHALL BE 45 DEGREES.
  - WHERE THERE IS INADEQUATE SPACE FOR TYPE "A" THRUST BLOCK AT ANY HORIZONTAL BEND, TYPE "D" SHALL BE USED.
  - TYPE D THRUST BLOCK IS ALTERNATE TO BE USED WHERE SPECIFIED OR DIRECTED BY THE ENGINEER.
  - VERTICAL BEND DOWNWARD ON 60°  $\phi$  BASED ON 22 1/2° BEND. FOR TYPE H BLOCKING & 22 1/2° BEND, D=3'-6" AND E=7'-0".
  - VERTICAL BEND UPWARD ON 60°  $\phi$  BASED ON 22 1/2° BEND. FOR TYPE J BLOCKING & 22 1/2° BEND, F=3'-0".



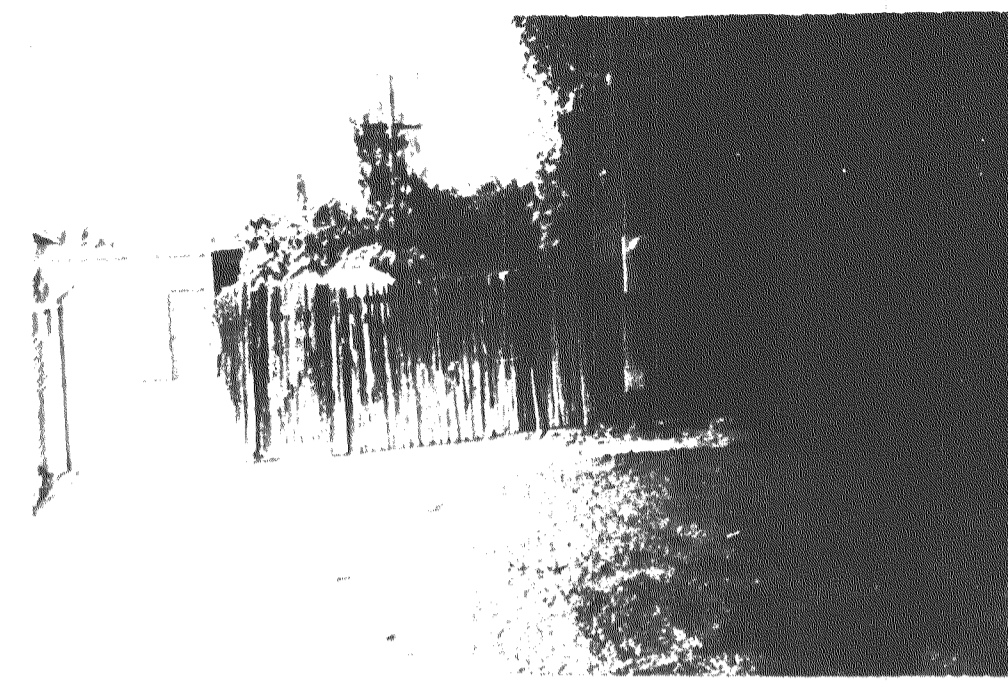
CONFORMS TO RECORD DOCUMENTS

CONTROL NO.

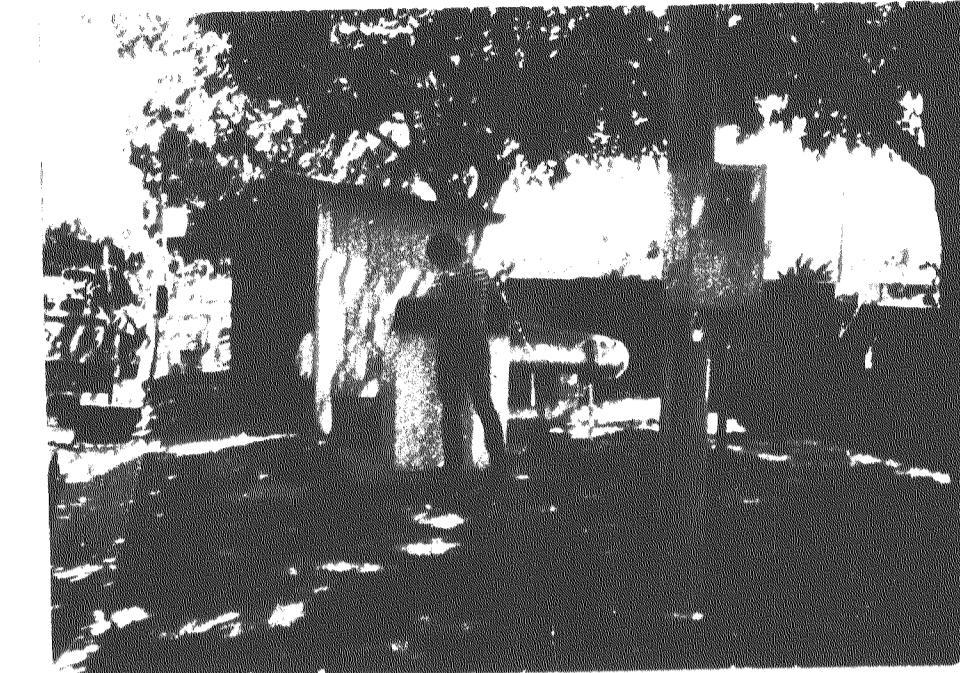
REVISIONS				
ZONE	REV	DESCRIPTION	BY	DATE
Δ	AS BUILT		JEM	1/26/87



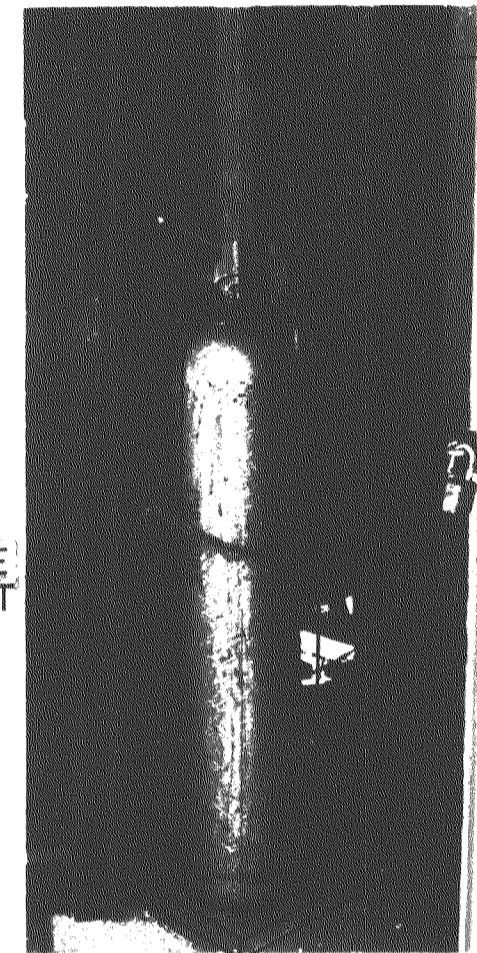
WEST WALL OF PUMPING STATION 4



EAST WALL OF PUMPING STATION 5



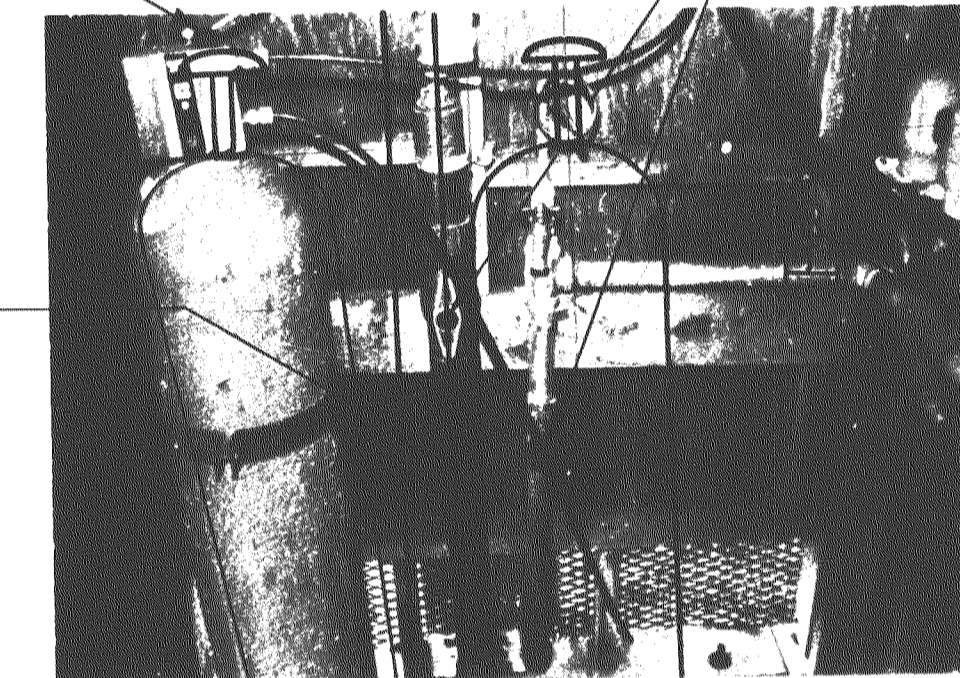
SOUTH WALL OF PUMPING STATION 6



CHLORINATION SYSTEM SEE DET. A/8



CHLORINATION SYSTEM SEE DET. A/8



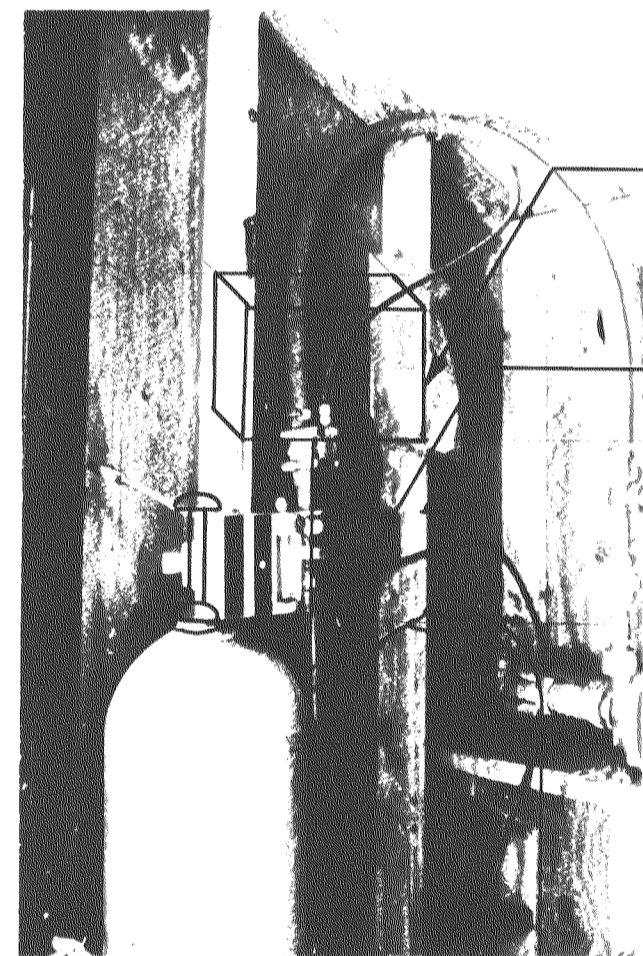
CHLORINATION SYSTEM SEE DET. A/8

LOCATE SCALE SO THAT SUFFICIENT CLEARANCE IS MAINTAINED TO ALLOW VALVE OPERATION. NO ENCROACHMENT SHALL BE MADE ONTO REMOVEABLE FLOOR PLATE.

ROTATE EXISTING VALVE 90°

RELOCATION OF HOSE BIBB.

NORTH WALL OF PUMPING STATION 6



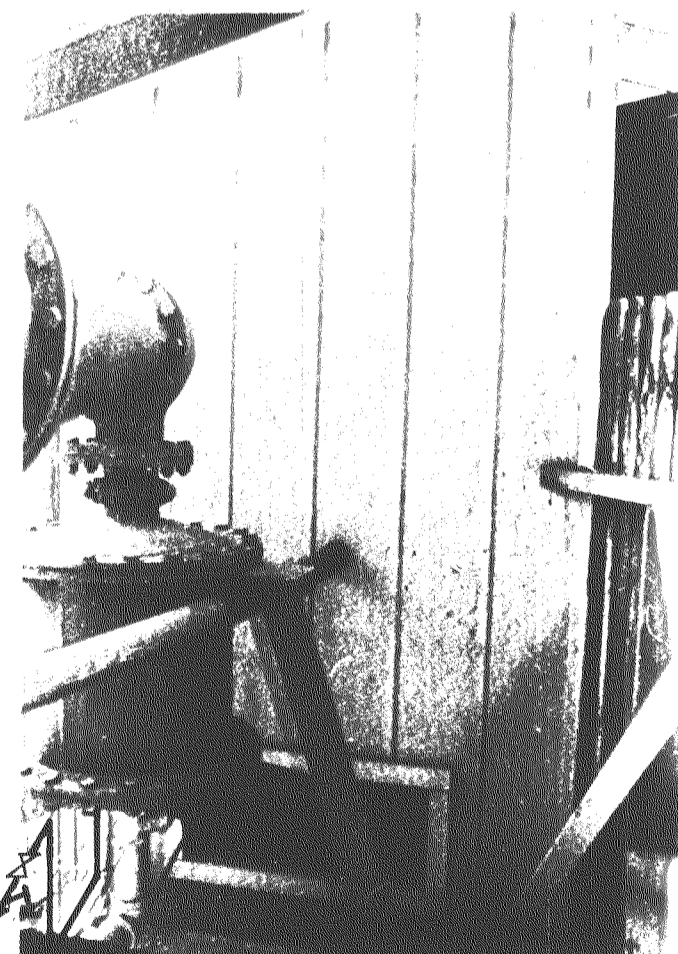
CHLORINATION SYSTEM SEE DET. A/8

PROVIDE SUFFICIENT CLEARANCE BETWEEN CHLORINATION SYSTEM AND EXISTING VALVE TO FIT HAND IN TO OPEN AND CLOSE VALVE.

NORTH WALL OF PUMPING STATION 4

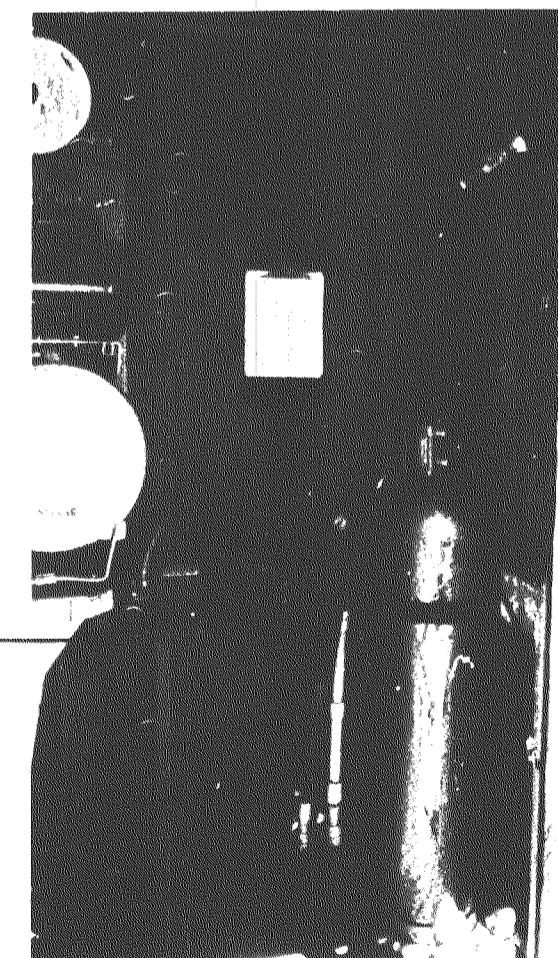
NORTHWEST CORNER OF PUMPING STATION 5

SCALE. PLACE SCALE FLUSH AGAINST NORTH WALL AND 3" OUT FROM WEST WALL



Y-STRAINER ASSEMBLY SEE DET. A/8

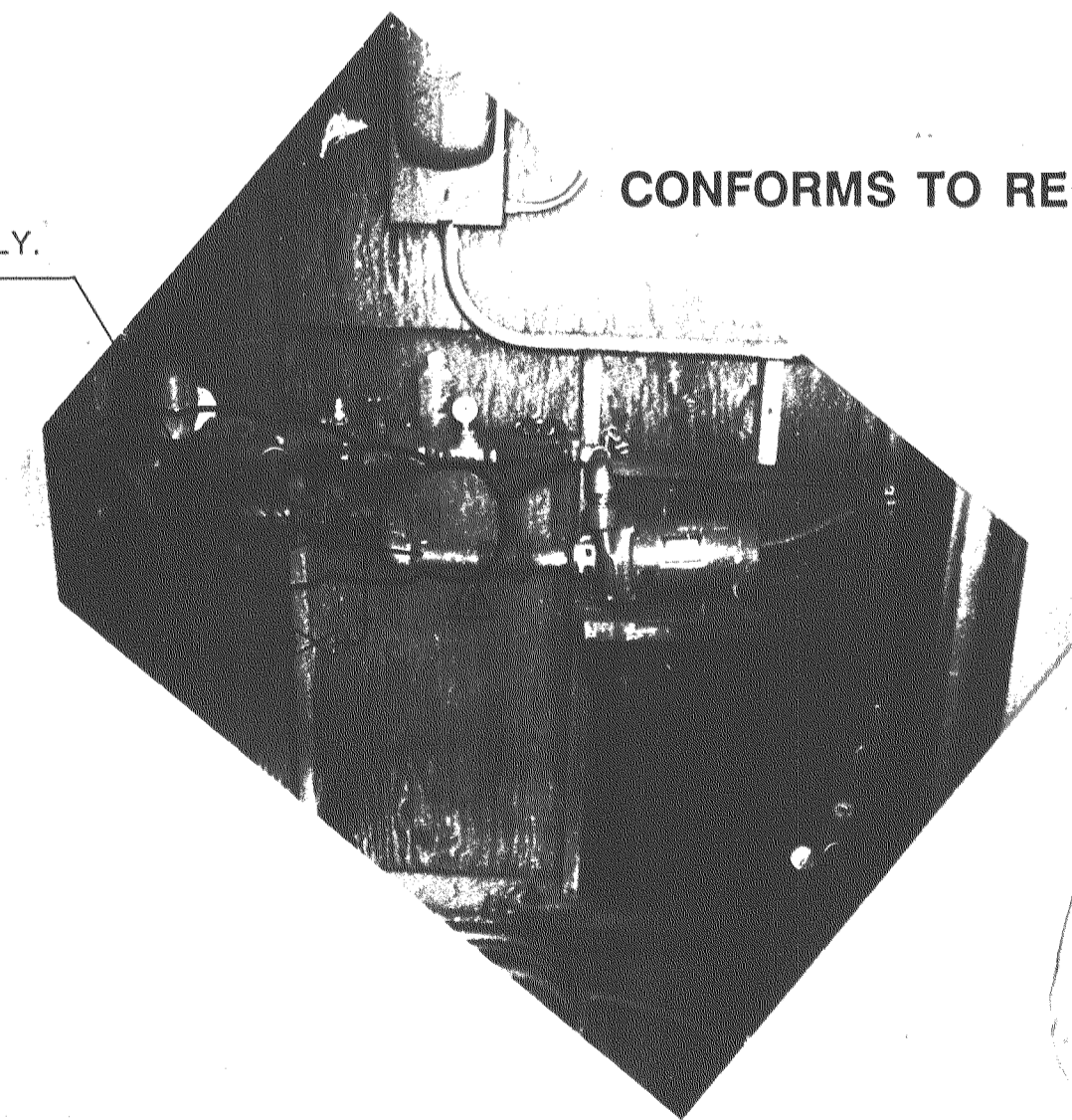
NORTH WALL OF PUMPING STATION 4



Y-STRAINER ASSEMBLY SEE DET. A/8

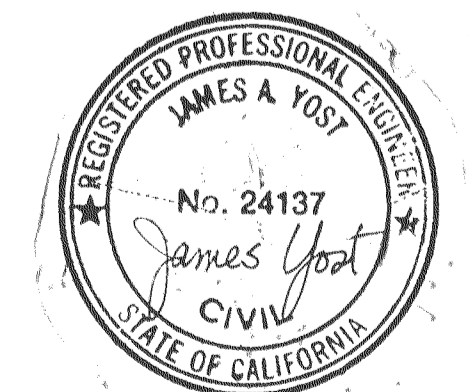
WEST WALL OF PUMPING STATION 5

Y-STRAINER ASSEMBLY SEE DET. A/8



EAST WALL OF PUMPING STATION 6

CONFORMS TO RECORD DOCUMENTS



Expires 12/31/89

**BC** BROWN AND CALDWELL CONSULTING ENGINEERS

FILE 2561  
DATE JUNE 1986  
DRAWN FWB

DESIGNED JEM  
CHECKED CB

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

COUNTY OF  
**SAN JOAQUIN**

WATER SYSTEM IMPROVEMENTS  
**LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT**

**CHLORINATION SYSTEM MODIFICATIONS**

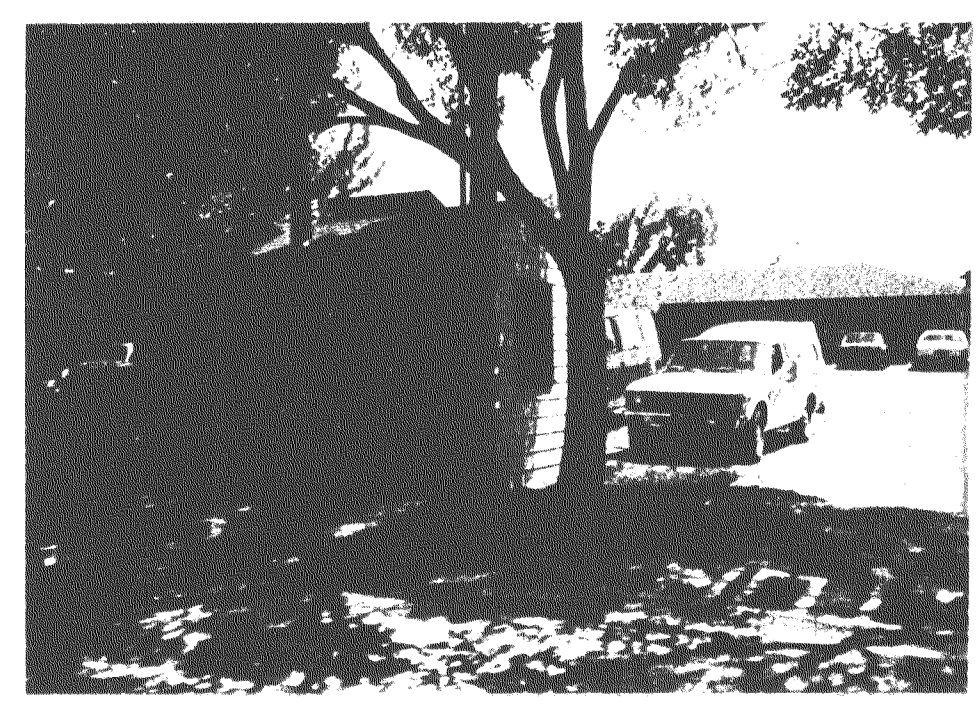
DRAWING NUMBER

10  
SHEET 10 OF 11

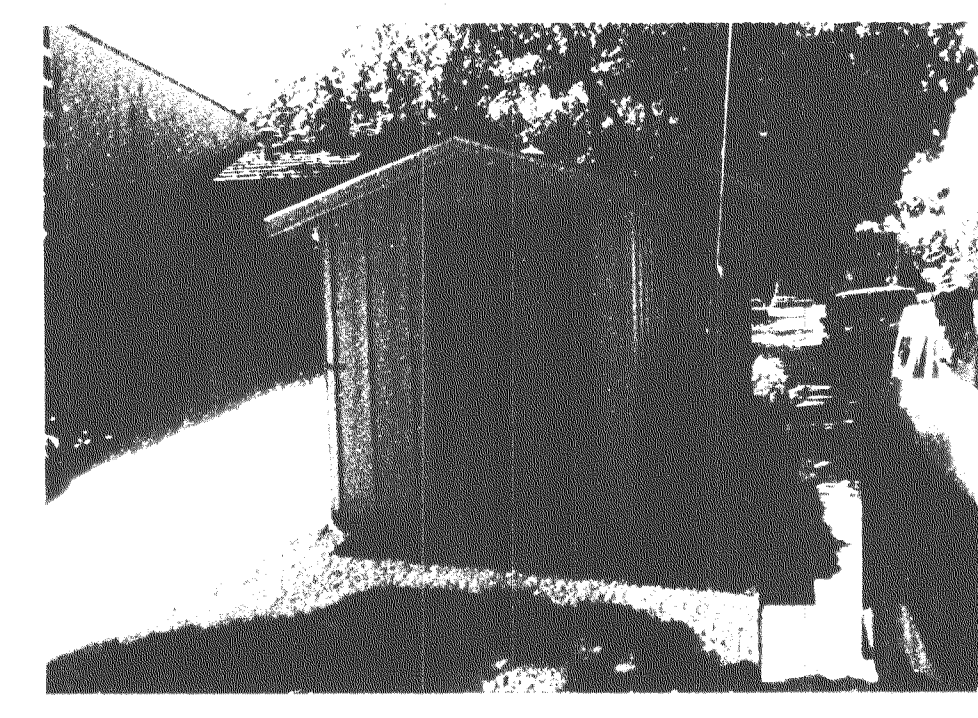
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COUNT PL. NO.

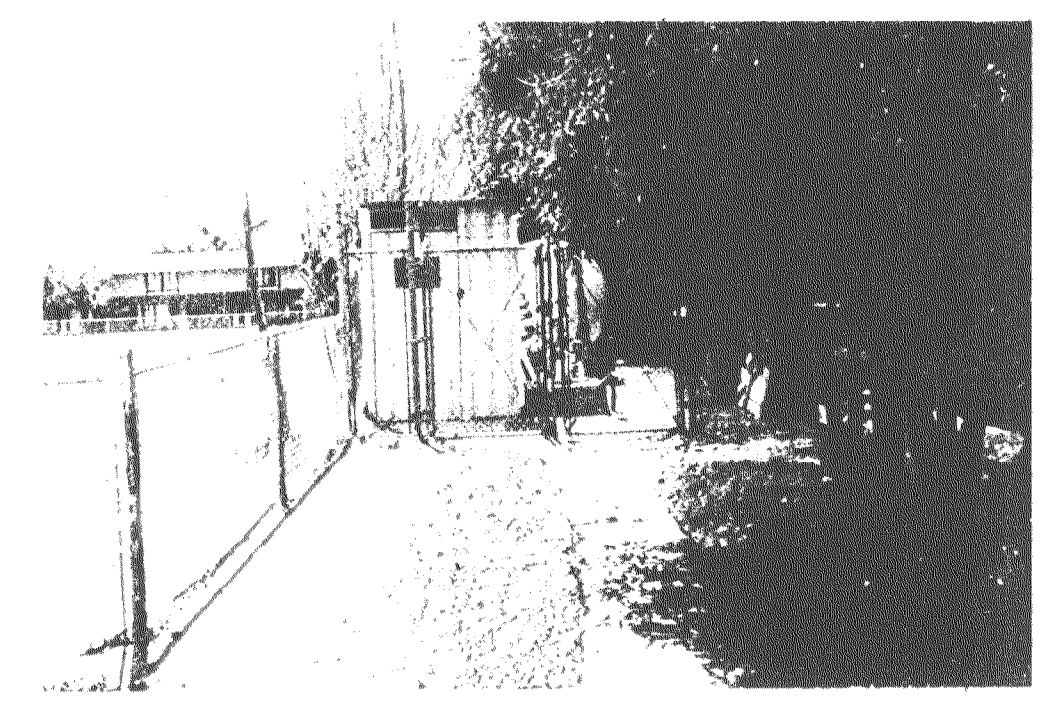
REVISIONS				
ZONE	REV	DESCRIPTION	BY	DATE
	AS BUILT		JEM	1/20/89



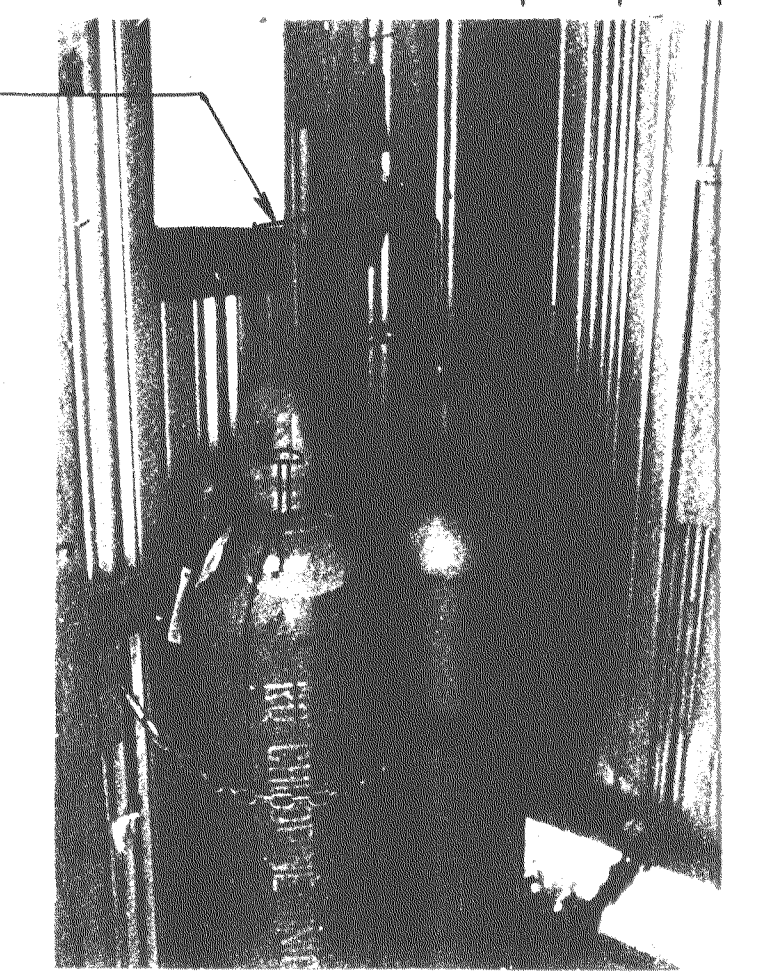
SOUTHWEST CORNER OF PUMPING STATION 1.



NORTH WALL OF PUMPING STATION 2.



NORTH WALL OF PUMPING STATION 3.



CHLORINATION SYSTEM. SEE DET. A/8.

SOUTHEAST CORNER OF PUMPING STATION 3.



CHLORINATION SYSTEM. SEE DET. A/8.

SCALE. PLACE SCALE BASE FLUSH AGAINST SOUTH AND EAST WALLS.

SOUTHEAST CORNER OF PUMPING STATION 1.

CHLORINATION SYSTEM. SEE DET. A/8.

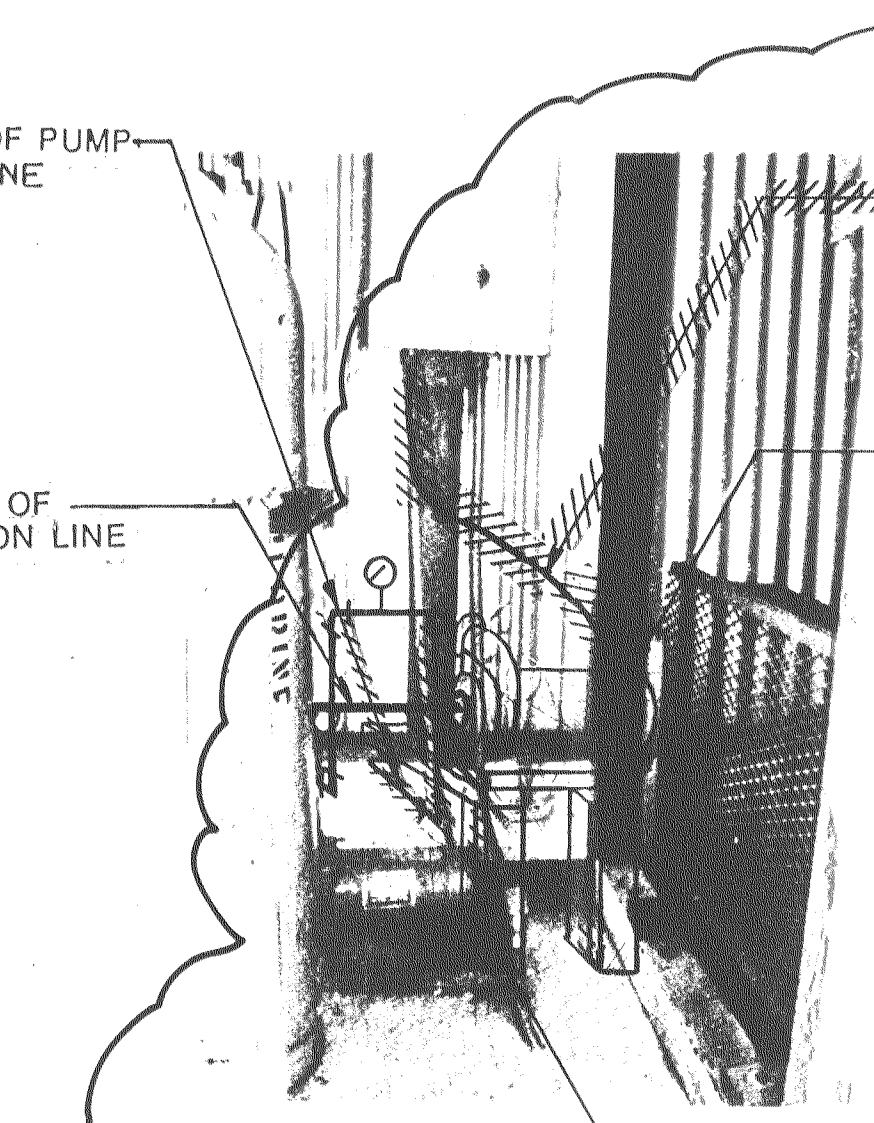


SCALE. PLACE SCALE BASE FLUSH AGAINST WEST WALL AND 5'-6" ± FROM NORTH WALL TO CENTERLINE OF BASE.

WEST WALL OF PUMPING STATION 2.

RELOCATION OF PUMP DISCHARGE LINE

RELOCATION OF PUMP SUCTION LINE

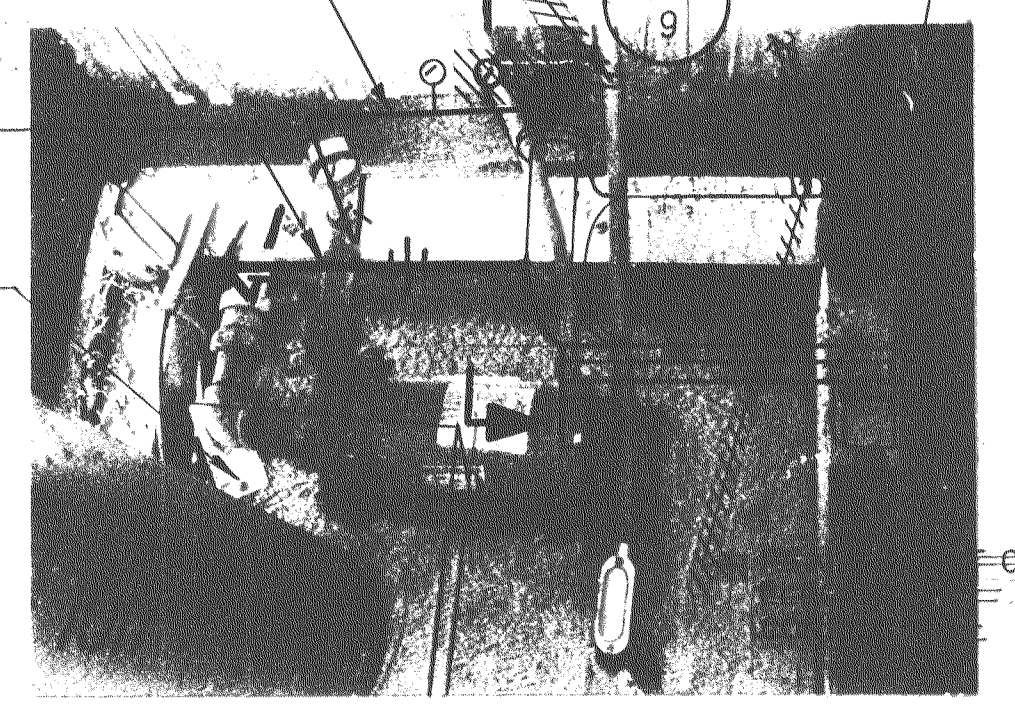


SOUTH WALL OF PUMPING STATION 3.

REALIGNMENT OF ELECTRICAL CONDUIT. DO NOT DISCONNECT ELECTRICAL CONDUIT FROM PUMP. ONLY MOVE IT AS REQUIRED FOR PUMP RELOCATION.

RELOCATION OF PUMP  
RELOCATION OF PUMP SUCTION LINE

SCALE. PLACE SCALE BASE FLUSH AGAINST EAST WALL AND JUST INSIDE DOOR.

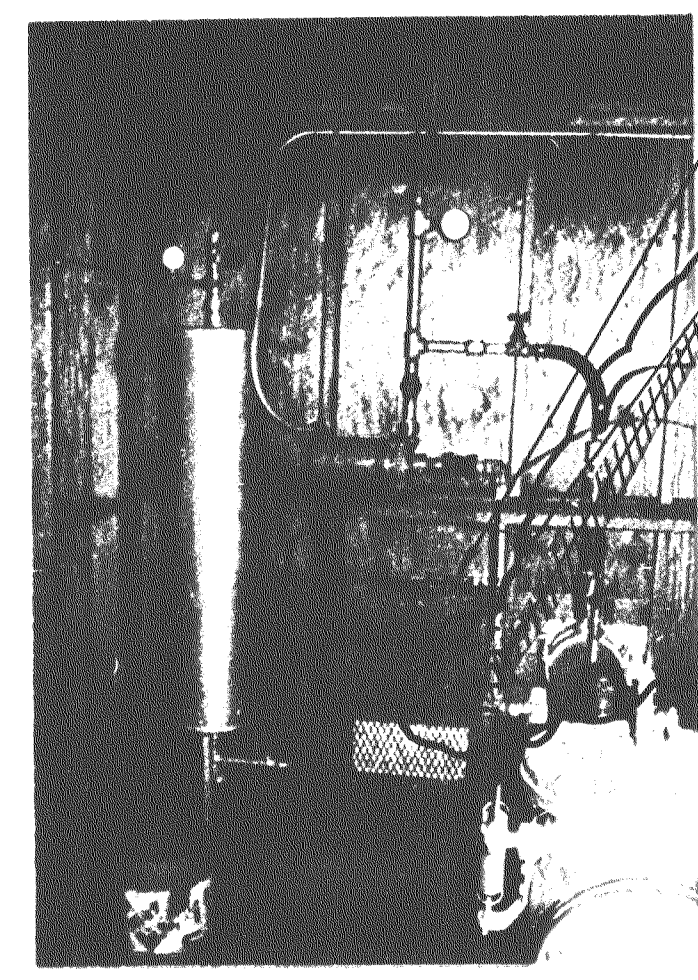


SOUTHEAST CORNER OF PUMPING STATION 3.

PUSH ELECTRICAL CONDUIT TO ONE SIDE AS REQUIRED TO CONSTRUCT PUMP PLATFORM.

RELOCATION OF PUMP

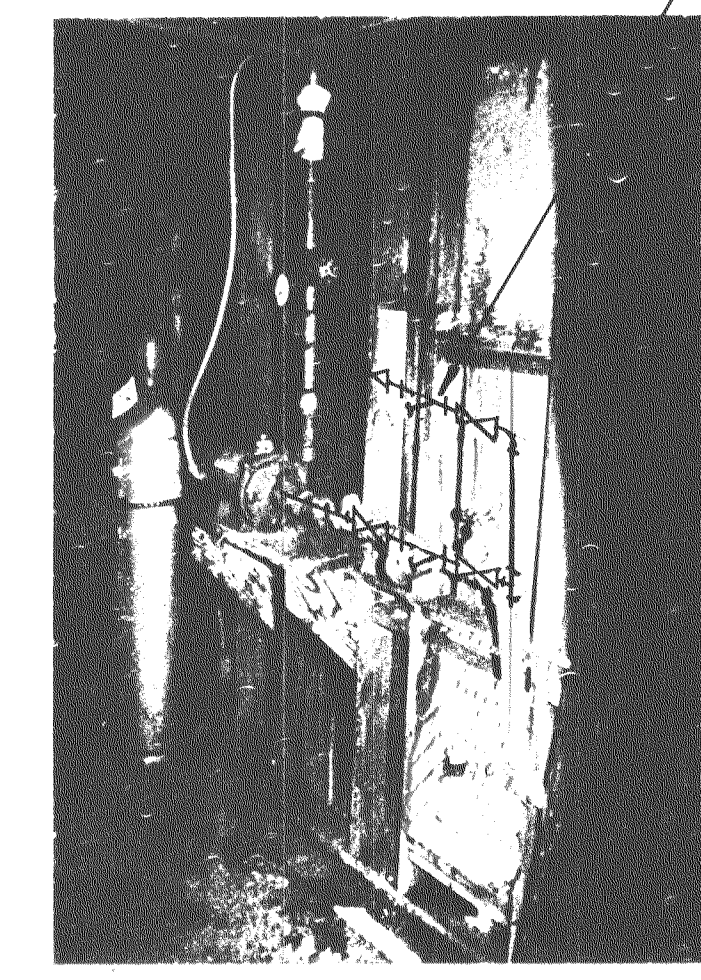
NEW PUMP STAND OF CONSTRUCTION GRADE LUMBER 2"x4"s AND 2"x10" FOR THE PLATFORM. DRILL HOLES AS REQUIRED FOR PUMP MOUNTING BASE. PROVIDE 1/2" THICK RUBBER BUSHINGS BETWEEN PUMP MOUNTING BASE AND WOOD PLATFORM.



Y-STRAINER ASSEMBLY. SEE DETAIL A/8.

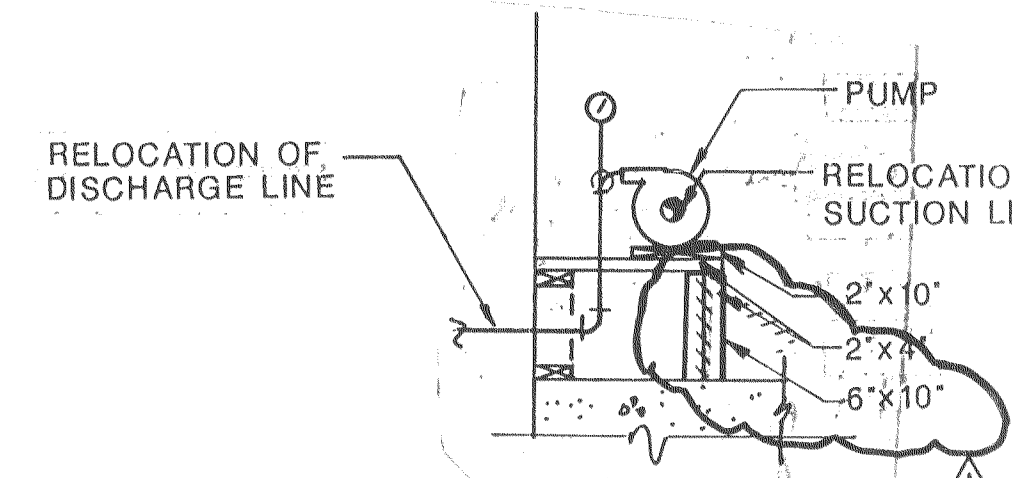
RELOCATION OF HOSE BIBB.

NORTHWEST CORNER OF PUMPING STATION 1.



Y-STRAINER ASSEMBLY. SEE DET. A/8.

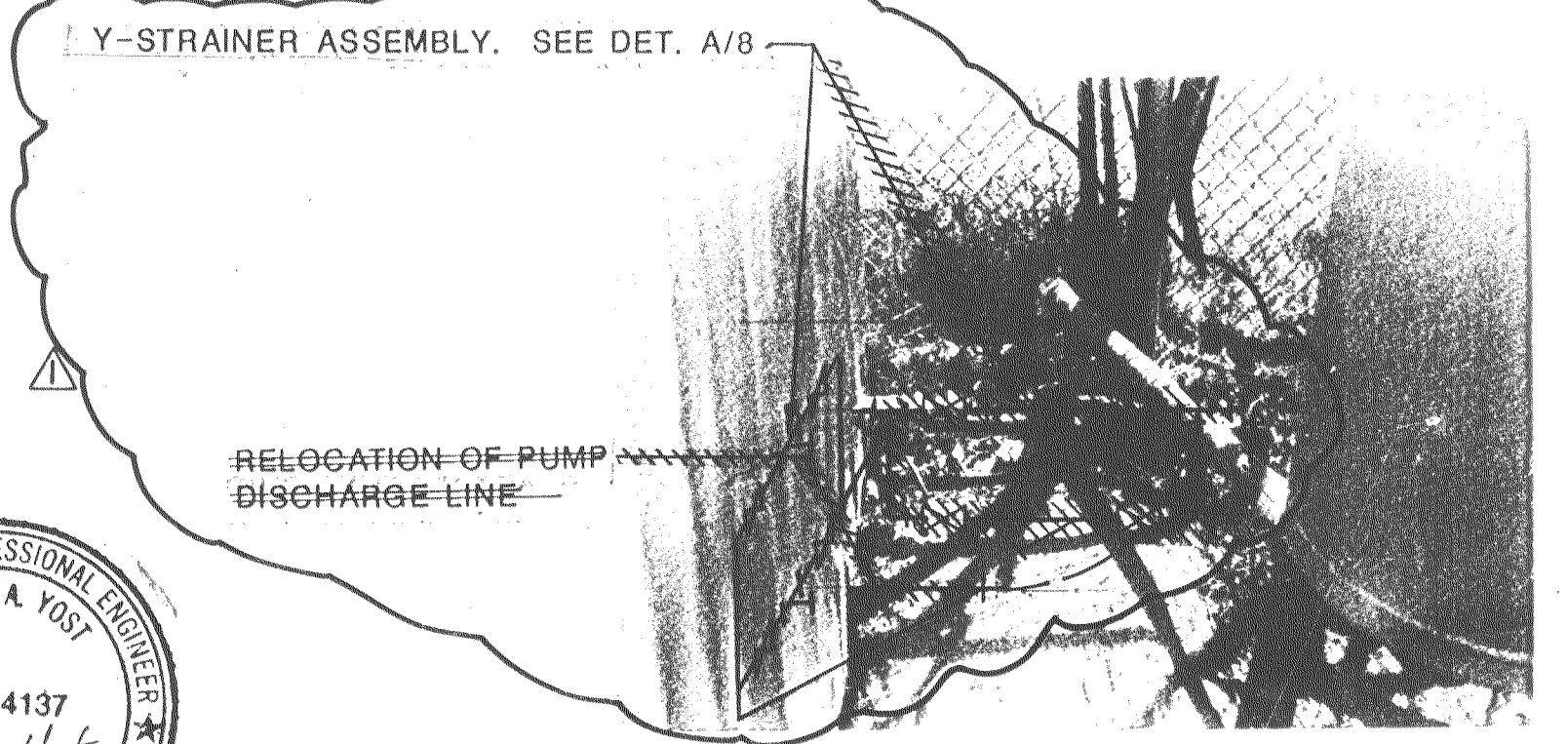
NORTHEAST CORNER OF PUMPING STATION 2.



RELOCATION OF DISCHARGE LINE

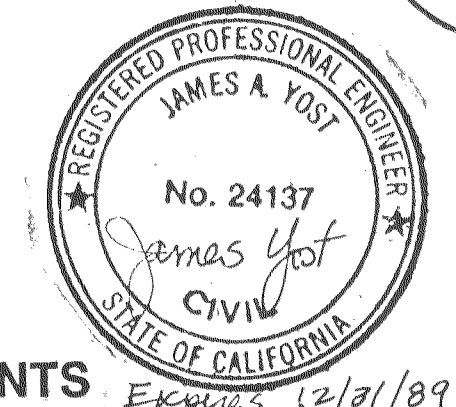
RELOCATION OF SUCTION LINE

SECTION 1/9



RELOCATION OF PUMP DISCHARGE LINE

SOUTH WALL OF PUMPING STATION 3.



CONFORMS TO RECORD DOCUMENTS

**BC** BROWN AND CALDWELL CONSULTING ENGINEERS

FILE 2561  
DATE JUNE 1986  
DRAWN FWP

DESIGNED JEM  
CHECKED ZFB  
CHECKED

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

COUNTY OF  
**SAN JOAQUIN**

WATER SYSTEM IMPROVEMENTS  
**LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT**

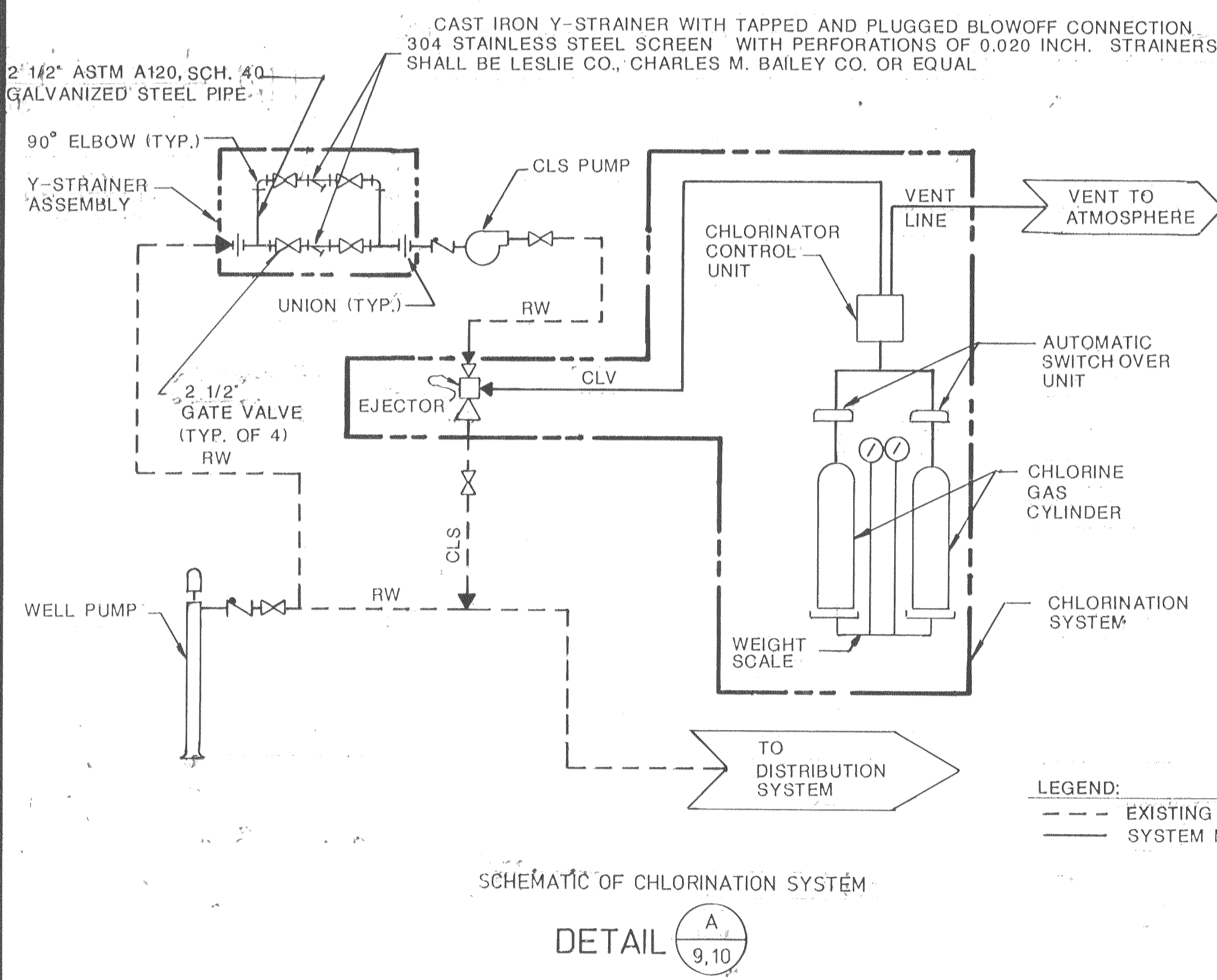
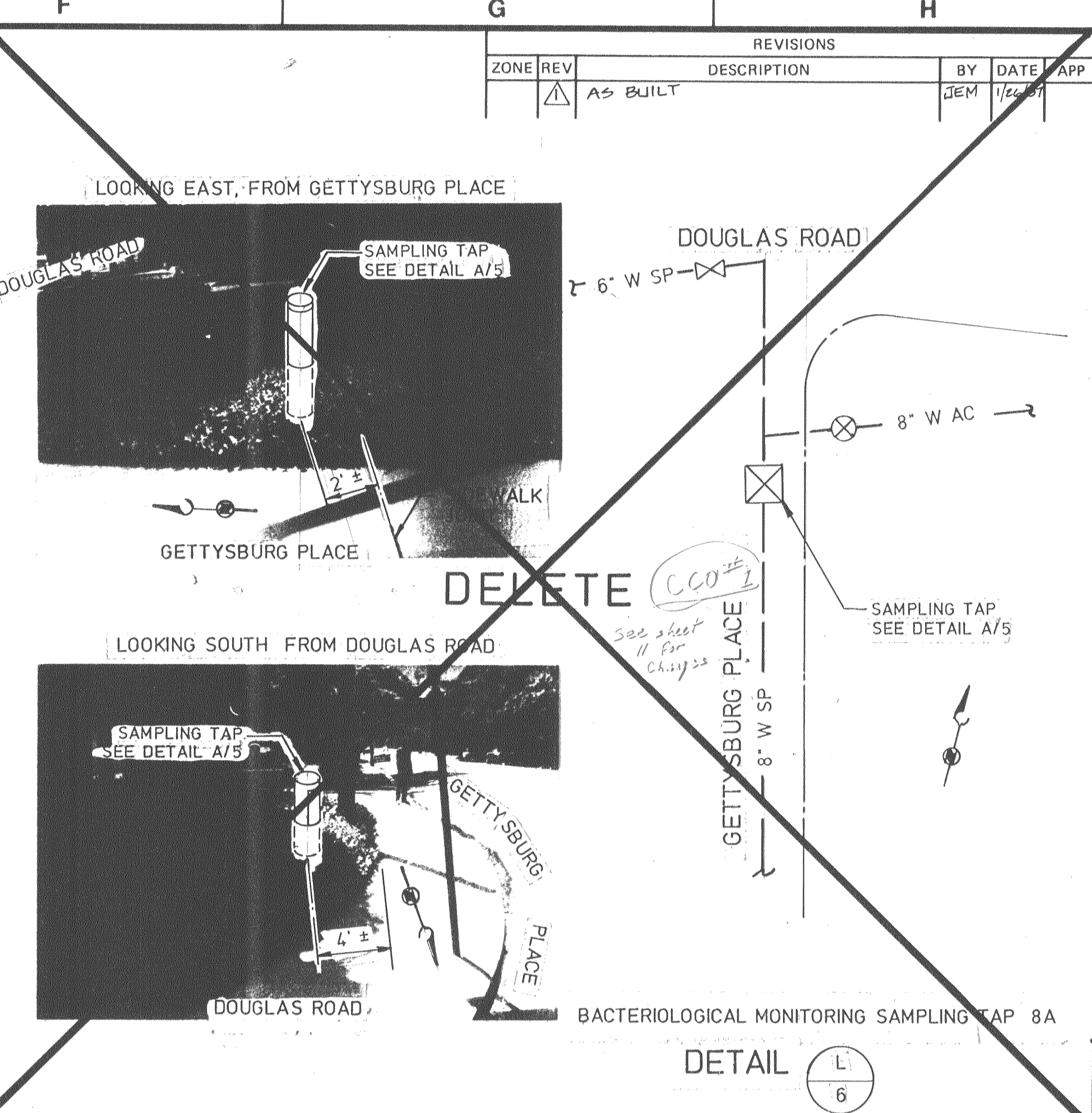
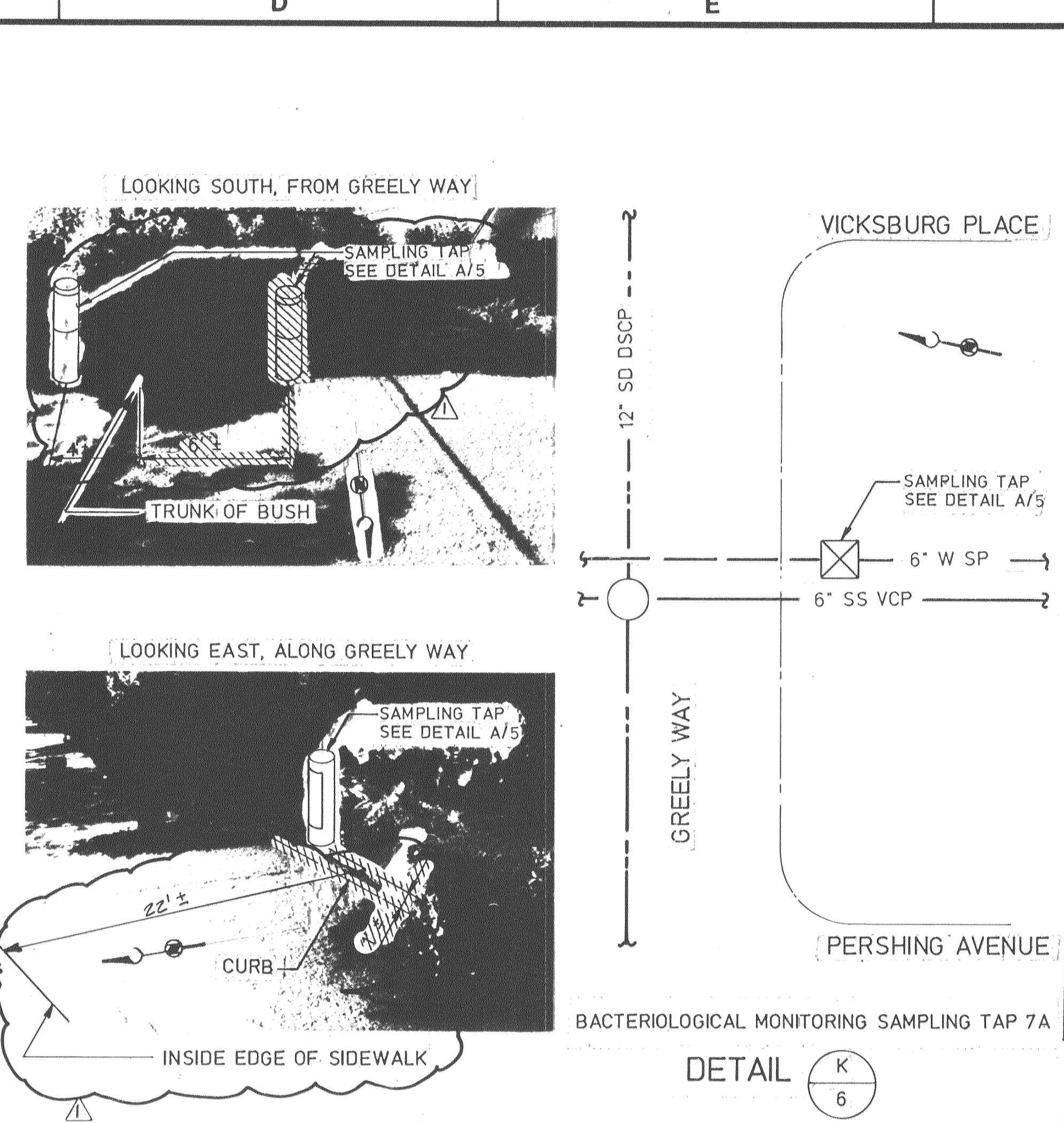
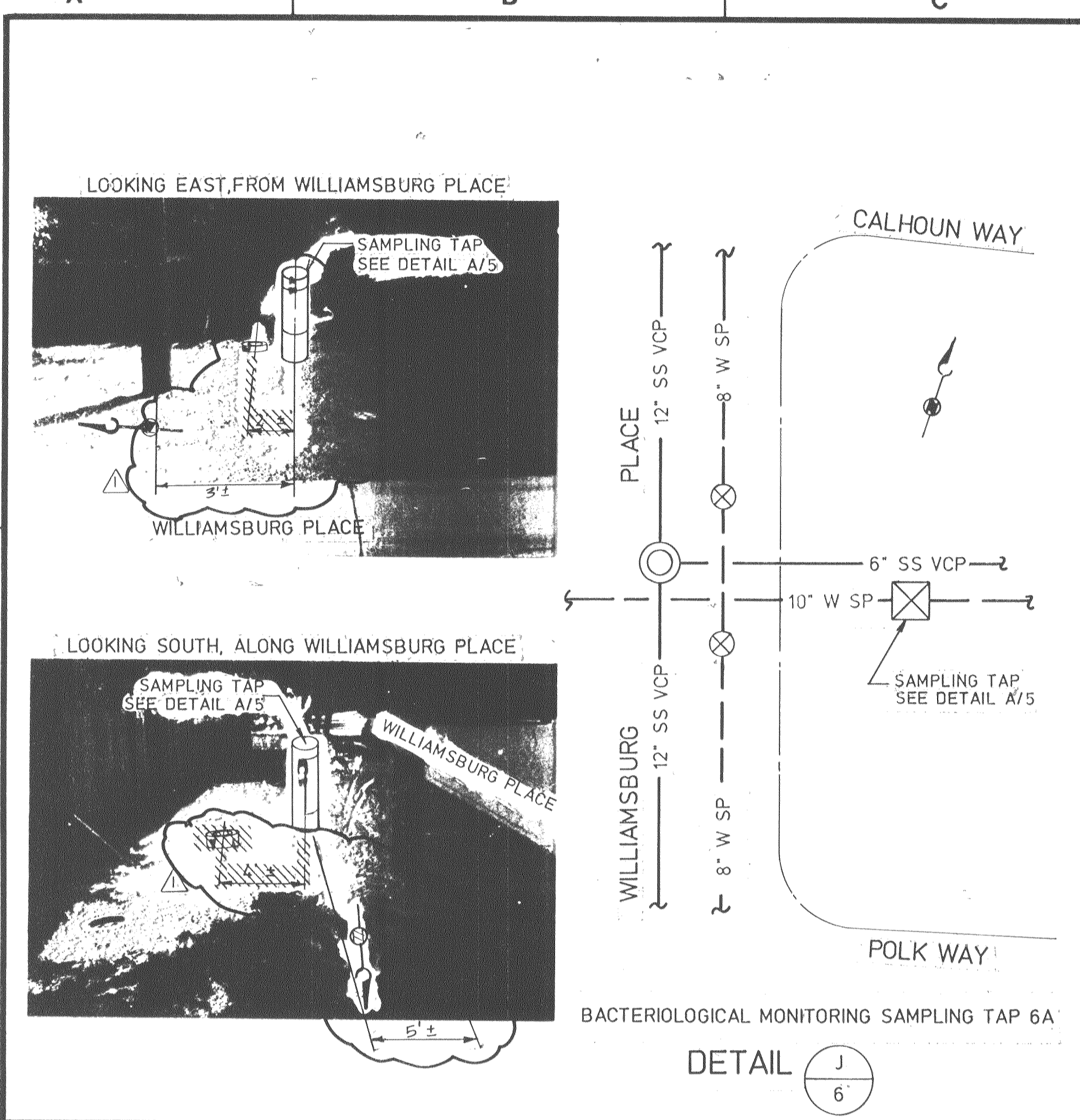
**CHLORINATION SYSTEM MODIFICATIONS**

DRAWING NUMBER  
**9**  
SHEET 9 OF 11  
**D**

50-1575

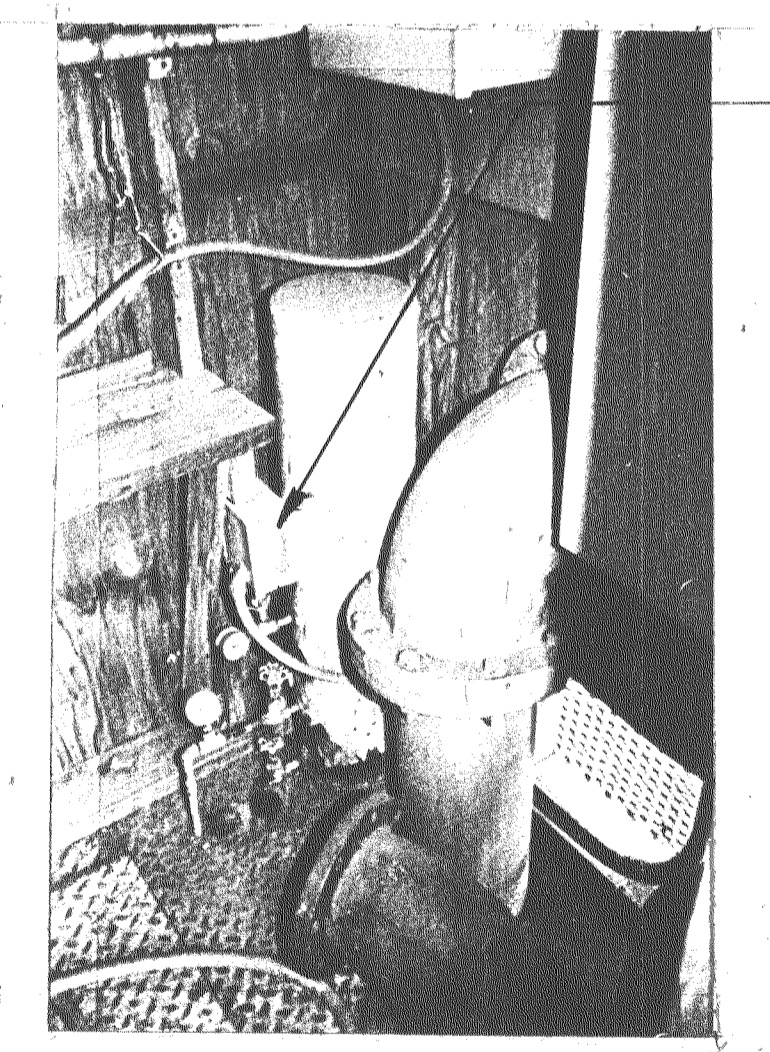
CONTROL NO.

REVISIONS					
ZONE	REV	DESCRIPTION	BY	DATE	APP
	Δ	AS BUILT	JEM	1/6/88	



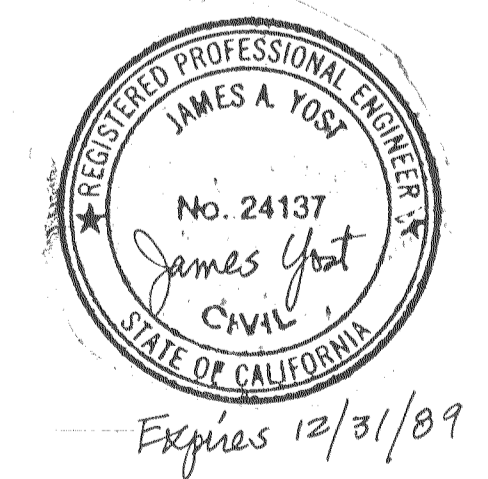
- GENERAL NOTES FOR CHLORINATION SYSTEM MODIFICATIONS:
1. CHLORINATION SYSTEM SHALL BE PENNWALT CORPORATION, WALLACE AND TIERNAN DIVISION, CONTROL UNIT PACKAGE V-100A, AND AUTOMATIC SWITCHOVER PACKAGE V-100C. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
  2. WEIGHT SCALE SHALL BE PENNWALT CORPORATION, WALLACE AND TIERNAN DIVISION, SERIES 50-345 TWO-CYLINDER SCALE.
  3. AT EACH INSTALLATION, MOUNT CHLORINATOR TO SCALE HEAD.
  4. PROVIDE ADAPTERS FOR CONNECTION TO EXISTING PIPING, AS REQUIRED.
  5. THE 'MANUFACTURER'S INSTALLATION CERTIFICATION FORM' 11000-A AND THE 'MANUFACTURER'S INSTRUCTION CERTIFICATION FORM' 11000-B IN SPEC. SECTION 1999 SHALL BE COMPLETED AND SIGNED BY THE CONTRACTOR FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

- NOTES FOR Y-STRAINER ASSEMBLY:
1. ALL FITTINGS SHALL BE MALLEABLE IRON, ASTM A197, ANSI B16.3, CLASS 150, GALVANIZED.
  2. PROVIDE ADAPTERS FOR CONNECTION TO EXISTING PIPING AS REQUIRED.
  3. CONTRACTOR SHALL PROVIDE ANCHOR BRACKETS, SADDLES, HANGERS, ETC. AS REQUIRED TO PERMANENTLY SECURE NEW OR MODIFIED PIPING, FITTINGS, ETC. AND SHALL BE APPROVED BY THE ENGINEER. EXISTING PIPES AND SUPPORTS SHALL NOT BE CONSIDERED IN THE SUPPORT OF NEW PIPING.

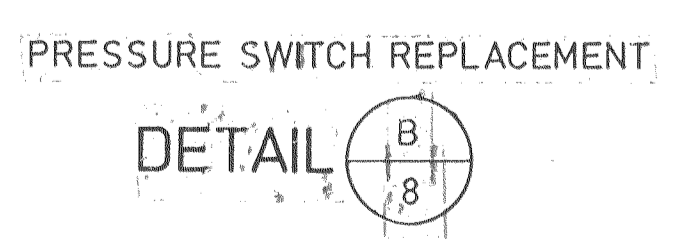


REPLACE EXISTING PRESSURE SWITCH WITH ASHCROFT P-SERIES PRESSURE SWITCH, PPA N4 J-B 25 XNF 100 psf. PROVIDE ADAPTERS FOR CONNECTION TO EXISTING SYSTEM, AS REQUIRED. SIMILAR REPLACEMENT SHALL BE PERFORMED AT EACH PUMP STATION.

THE 'MANUFACTURER'S INSTALLATION CERTIFICATION FORM' 11000-A AND THE 'MANUFACTURER'S INSTRUCTION CERTIFICATION FORM' 11000-B IN SPEC. SECTION 1999, SHALL BE COMPLETED AND SIGNED BY THE CONTRACTOR FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

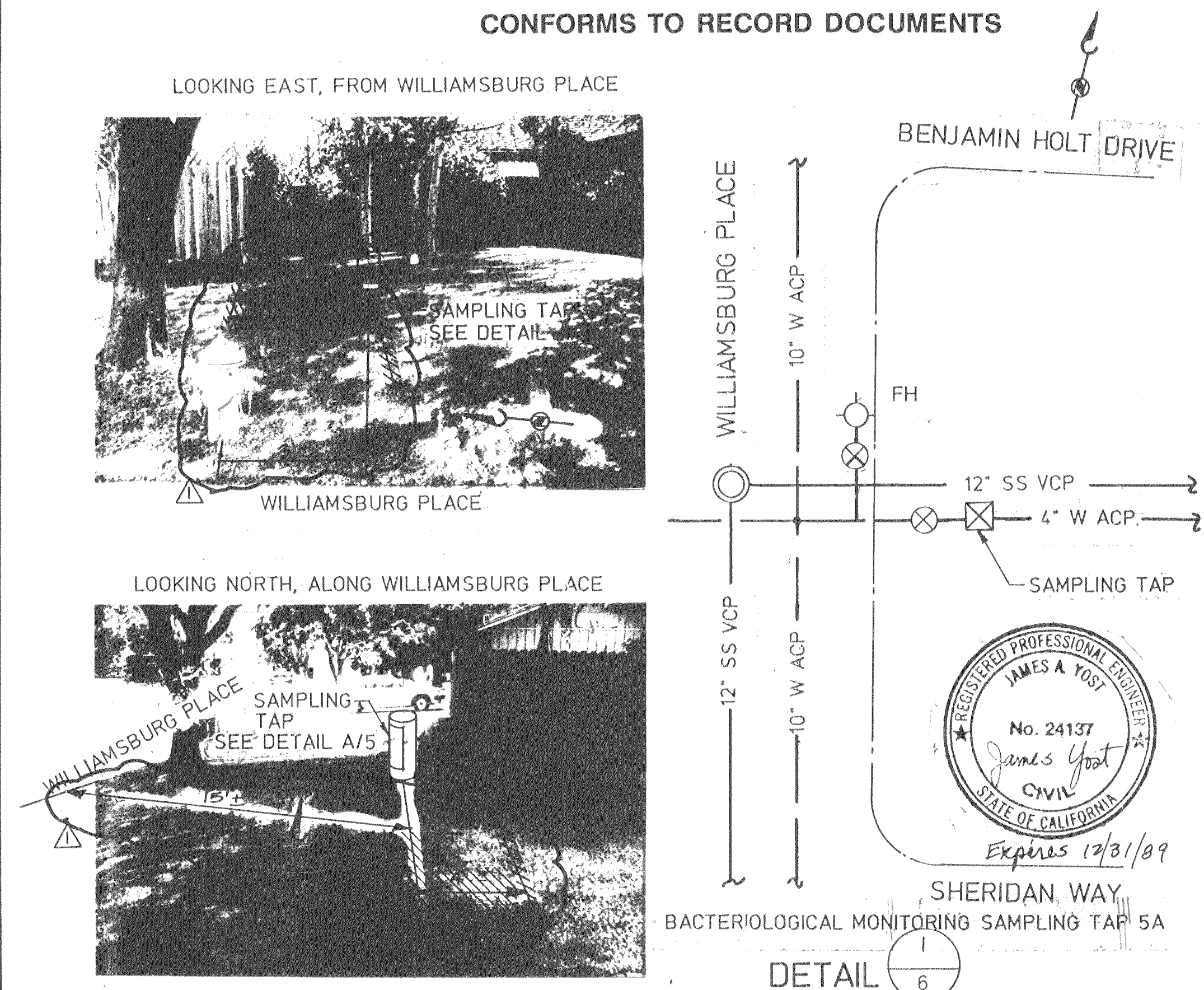
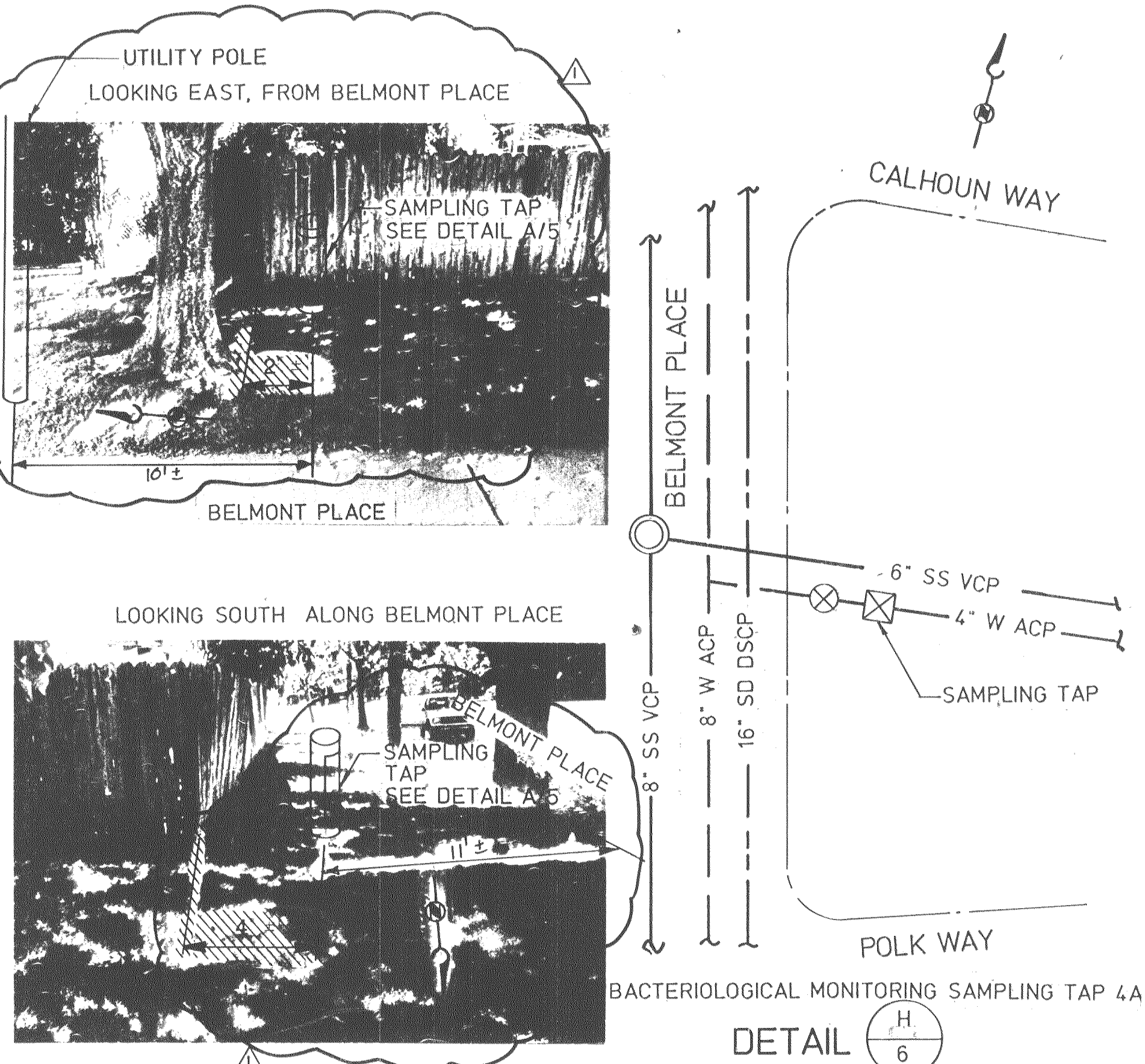
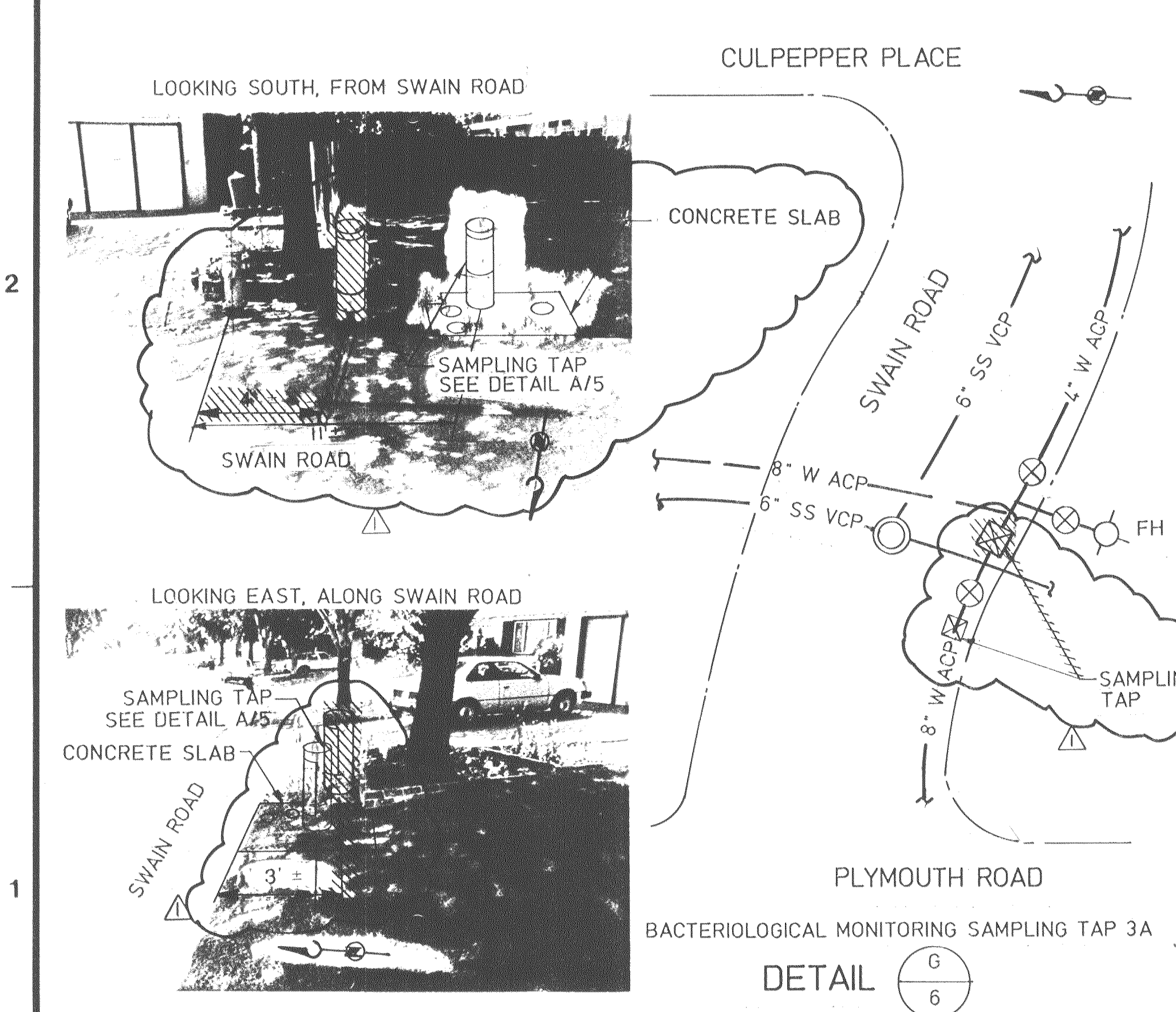
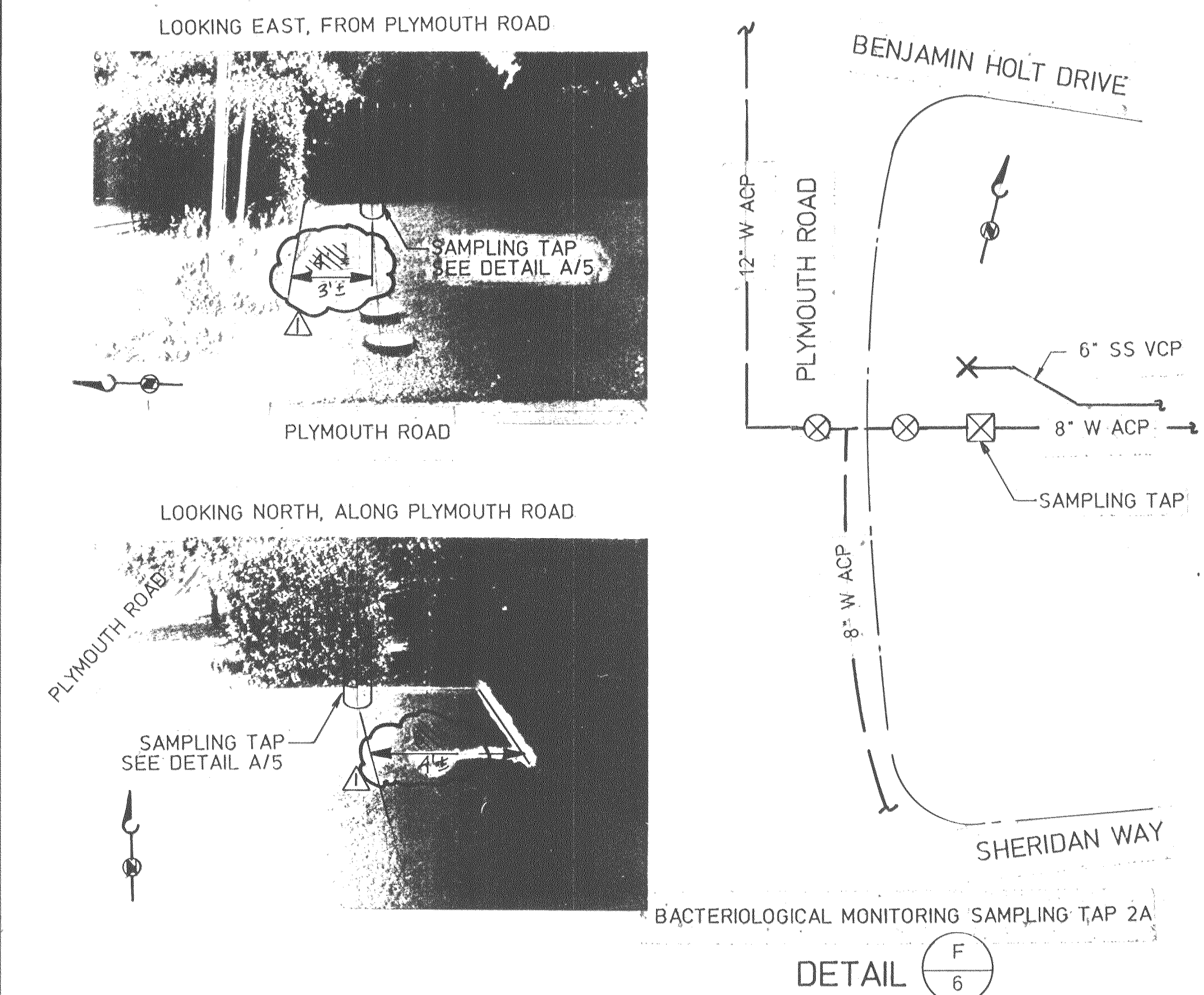
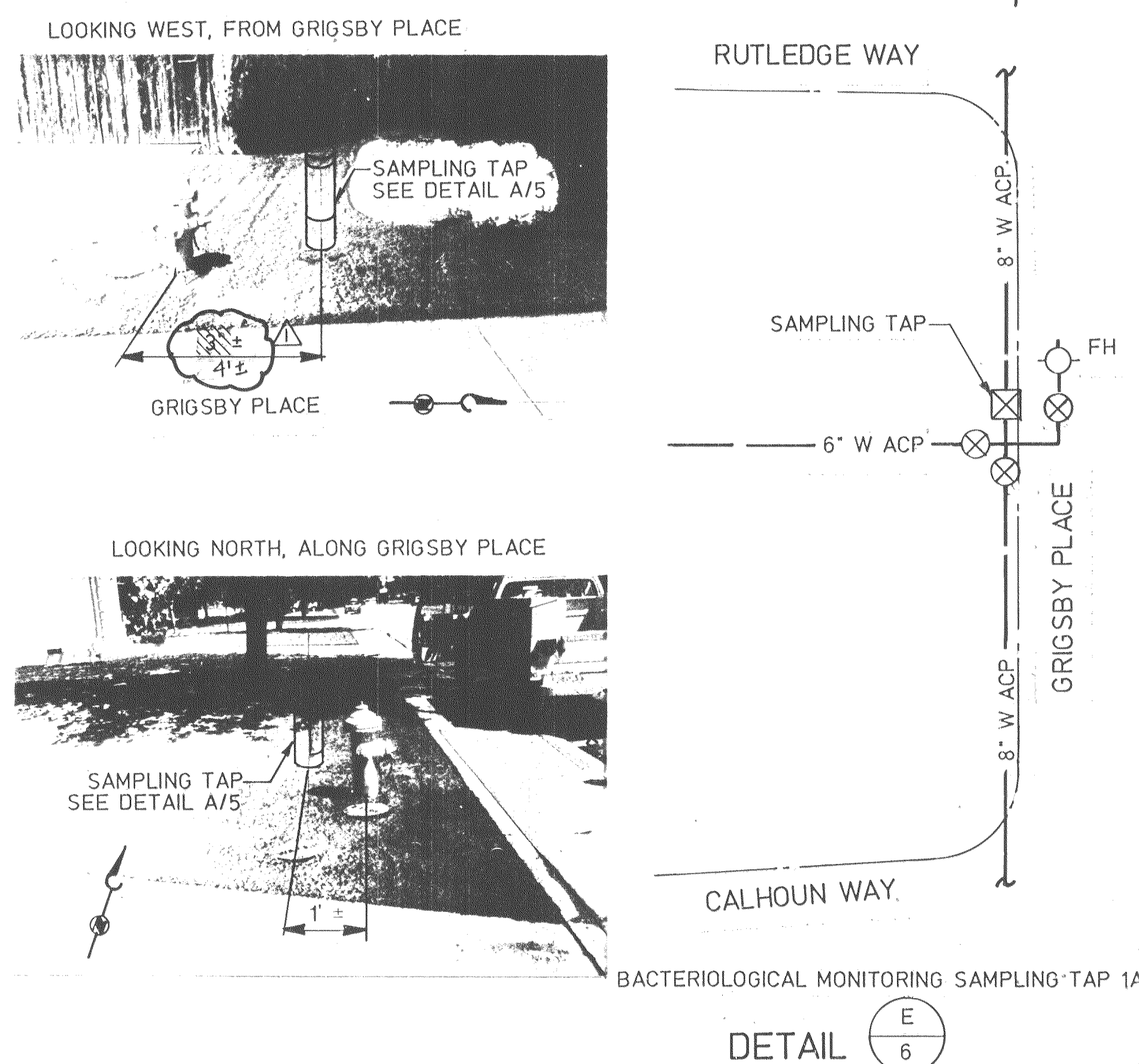
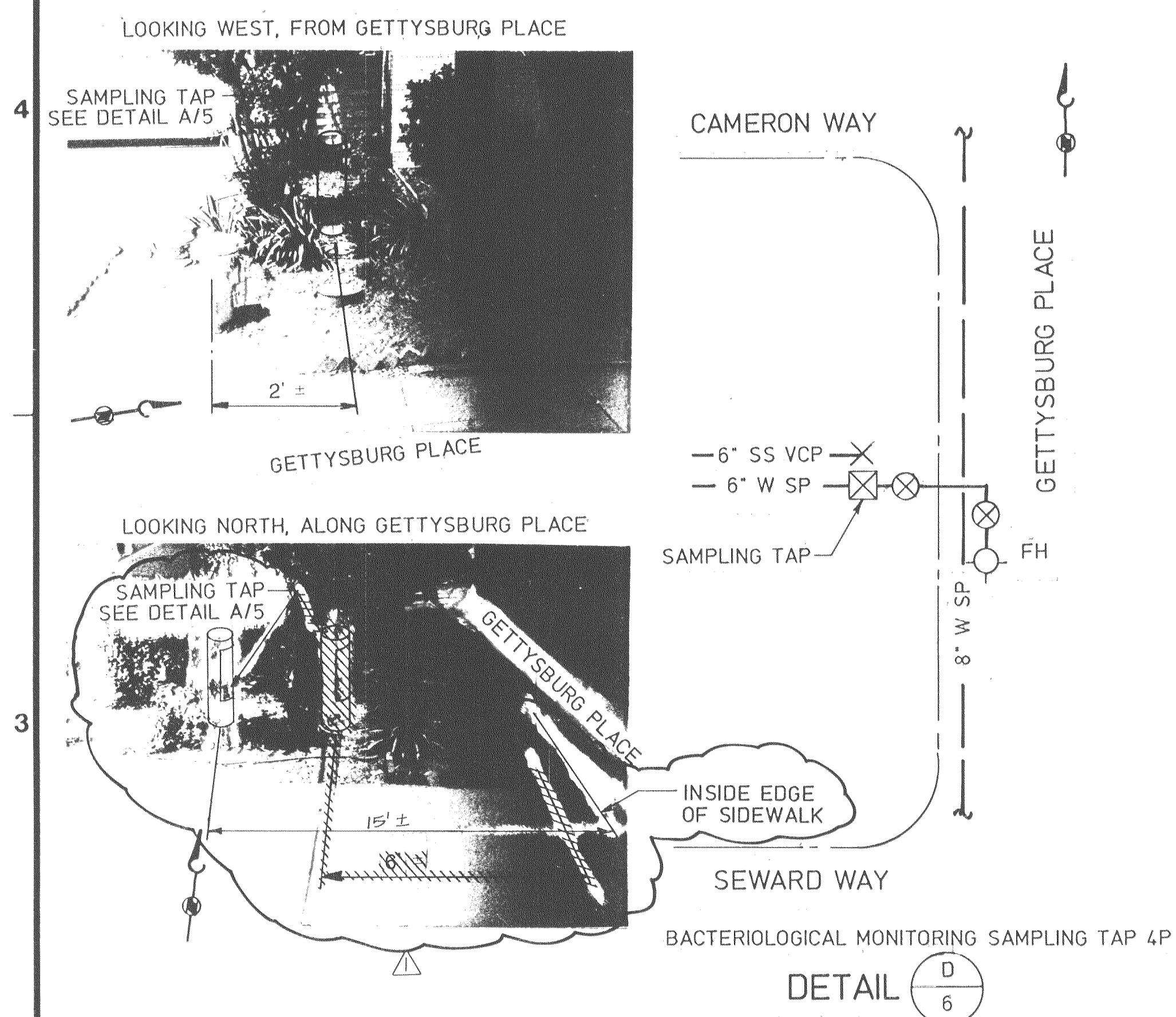


CONFORMS TO RECORD DOCUMENTS



CONTROL NO.

ZONE REV		REVISIONS		
Δ	AS BUILT	DESCRIPTION	BY	DATE
			JEM	1/24/87



**BC BROWN AND CALDWELL CONSULTING ENGINEERS**

FILE 2561  
 DATE JUNE 1988  
 DRAWN FWB/GRS

DESIGNED JEM  
 CHECKED CPB  
 CHECKED

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

COUNTY OF **SAN JOAQUIN**

WATER SYSTEM IMPROVEMENTS  
**LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT**

BACTERIOLOGICAL MONITORING SAMPLING TAP LOCATION DETAILS

DRAWING NUMBER **7**

SHEET 7 OF 11 **D**



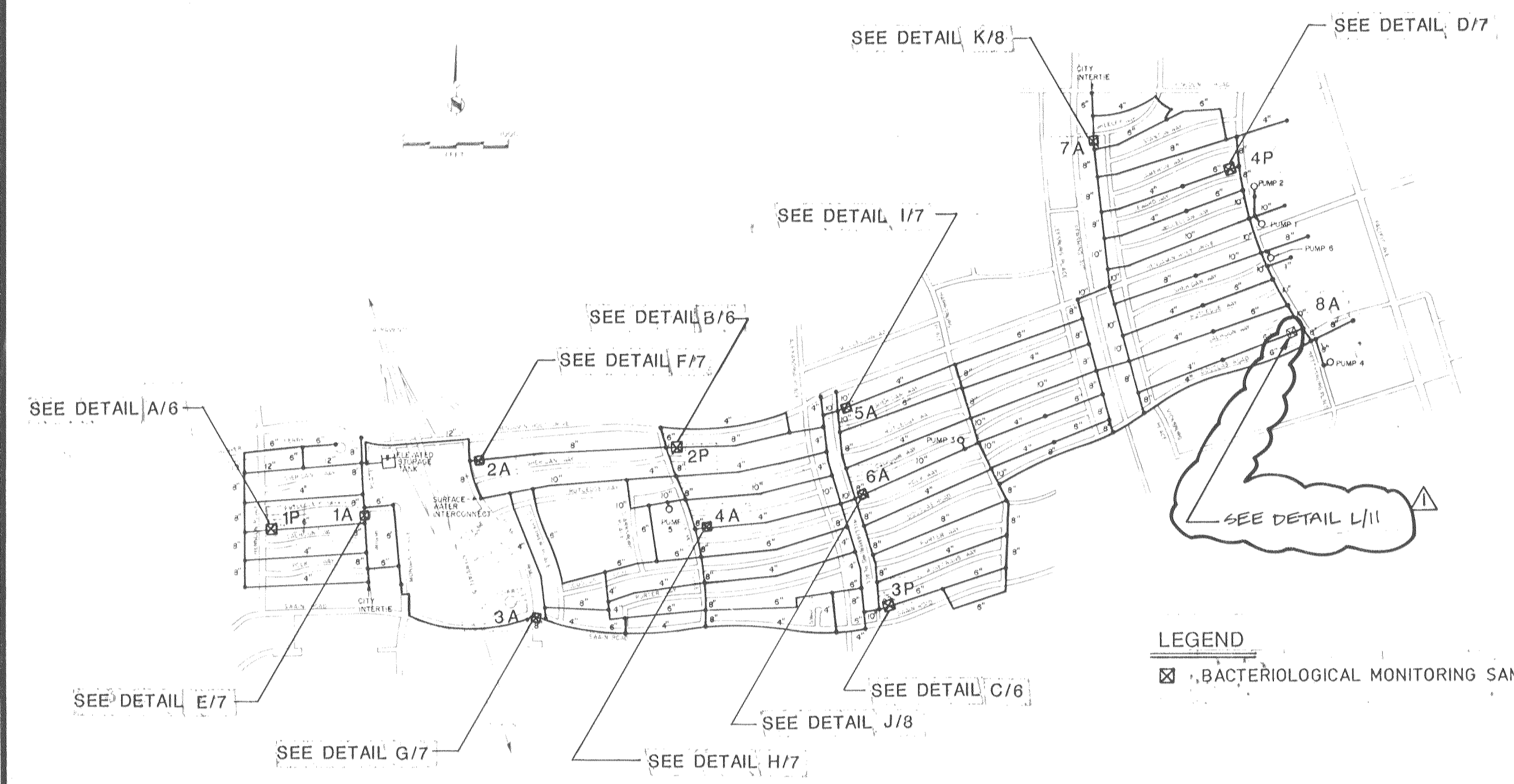
50-1875

CONTROL NO.

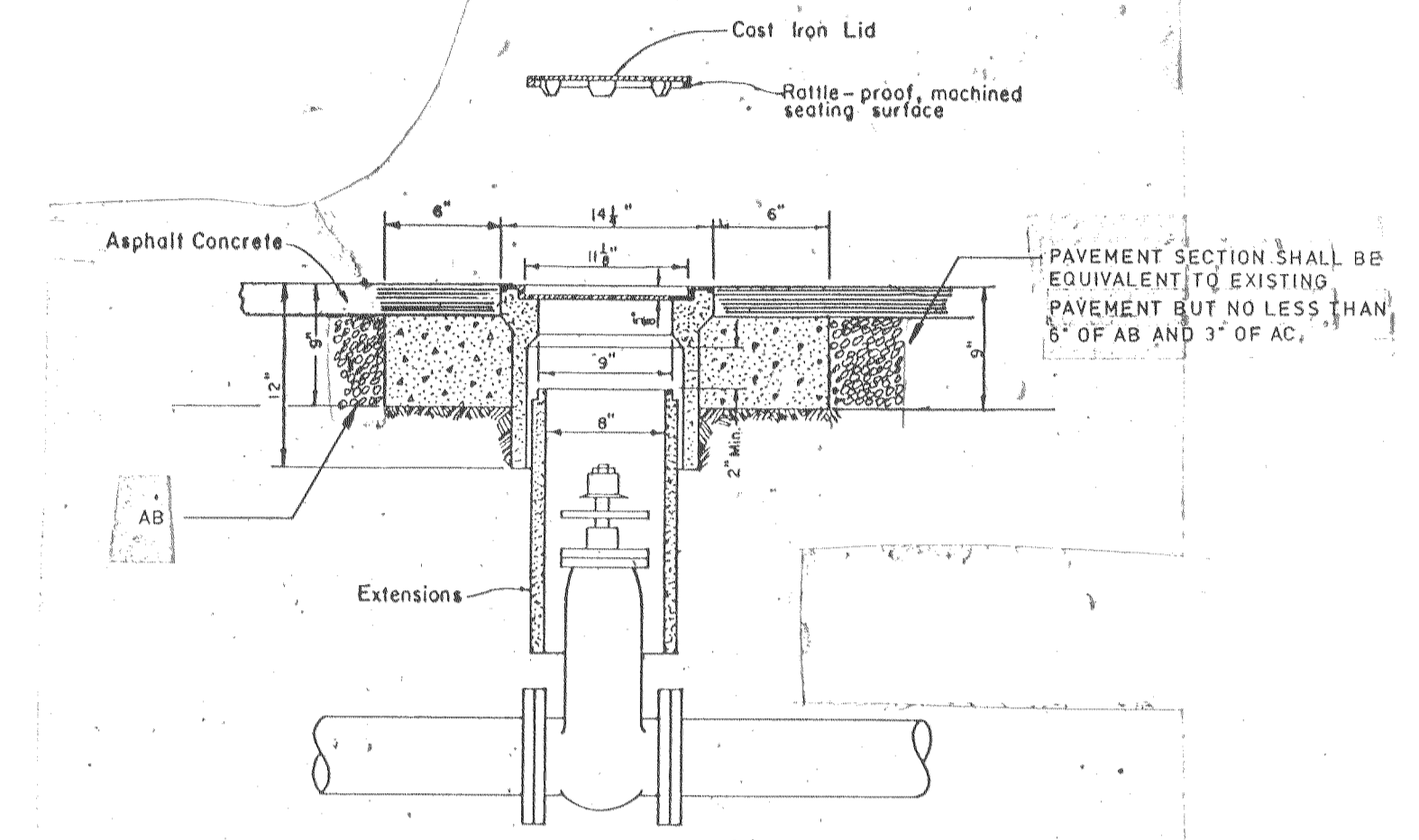
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ZONE REV		REVISIONS		
ZONE	REV	DESCRIPTION	BY	DATE
A	AS BUILT		JEM	1/23/87

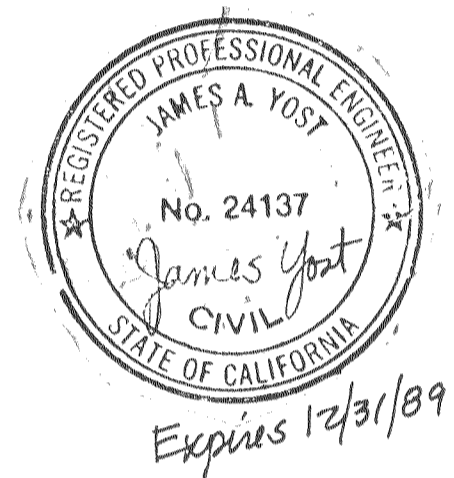
- NOTES FOR SAMPLING TAP LOCATIONS:
1. ALL IDENTIFIED UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL CALL U.S.A. 1-800-642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION FOR UTILITY LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT UTILITY LOCATIONS.
  2. ALL SAMPLING TAP LOCATIONS SHOWN ARE APPROXIMATE. FIELD LOCATE AS REQUIRED AND AS APPROVED BY THE ENGINEER TO PLACE SAMPLING TAP DIRECTLY ABOVE WATER LINE.
  3. REFER TO DETAIL A/5 FOR BACTERIOLOGICAL MONITORING SAMPLING TAP FABRICATION AND INSTALLATION.



LEGEND  
 ☒ BACTERIOLOGICAL MONITORING SAMPLING TAP (TOTAL OF 12)

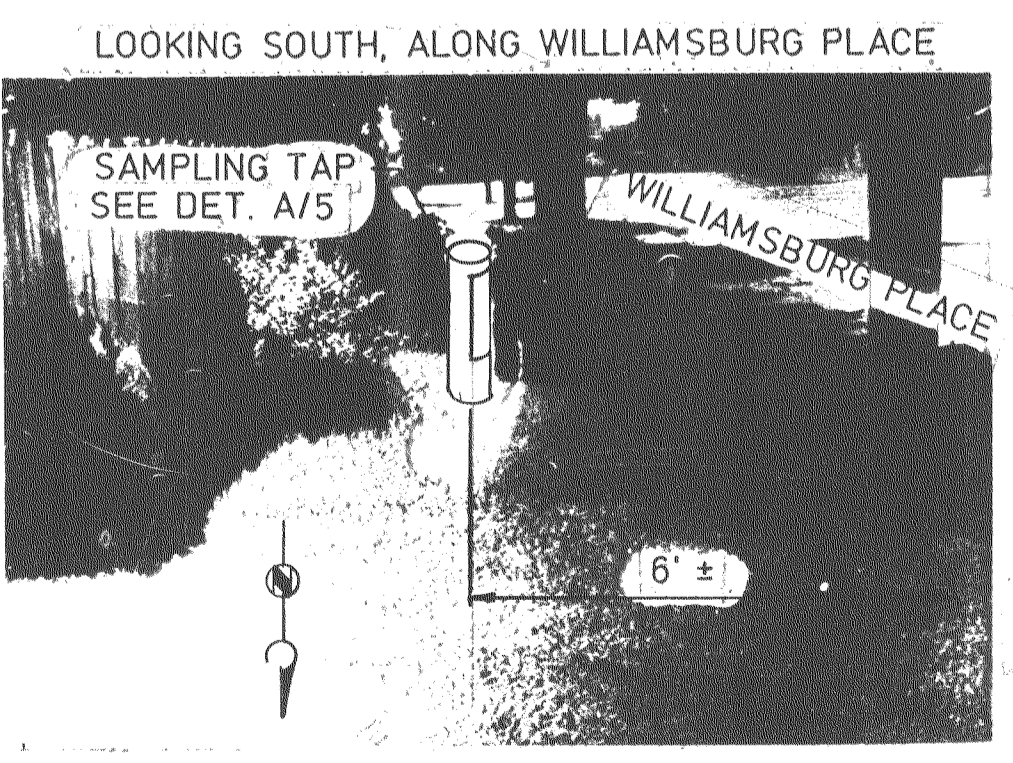
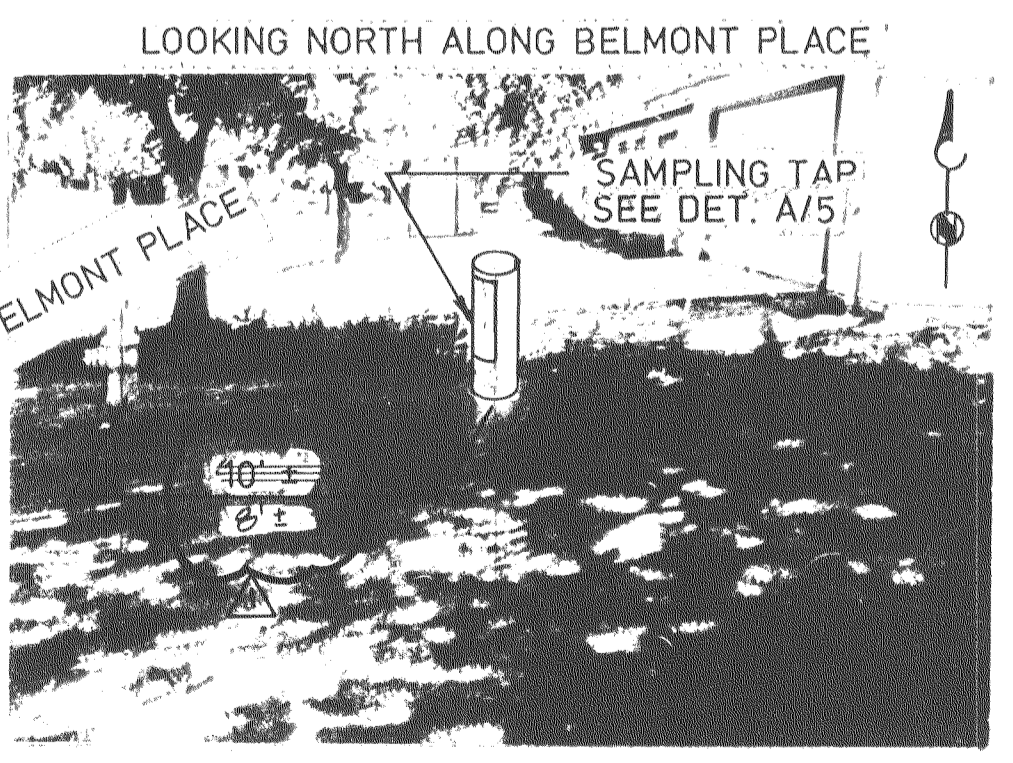
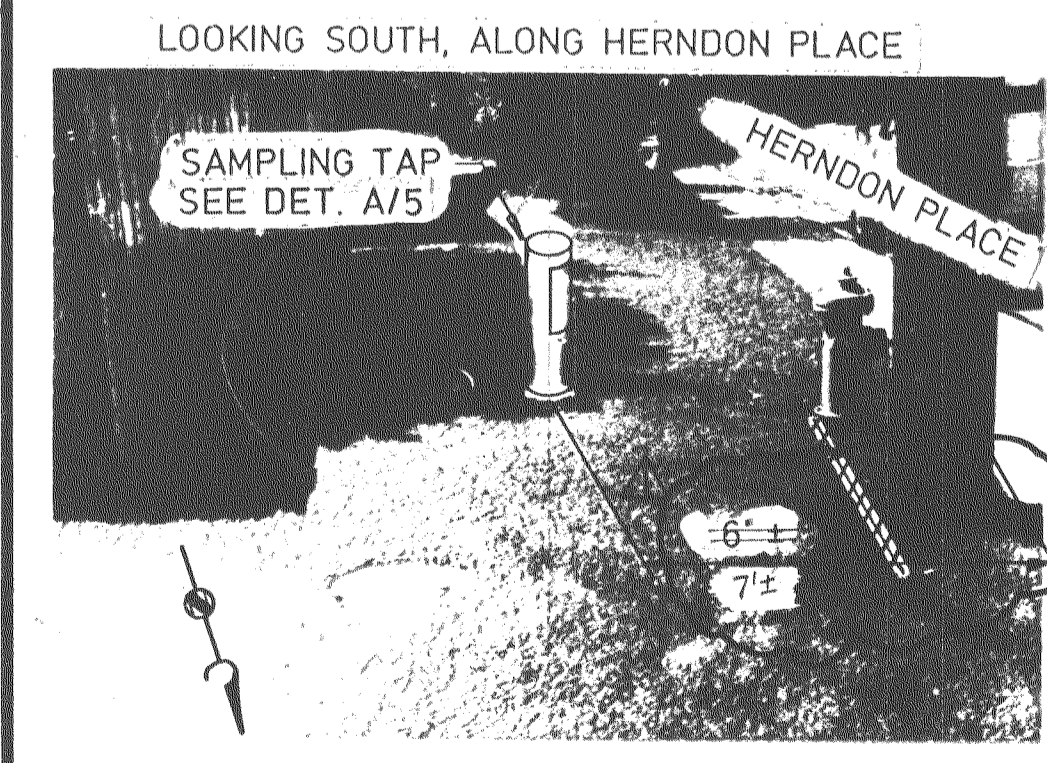
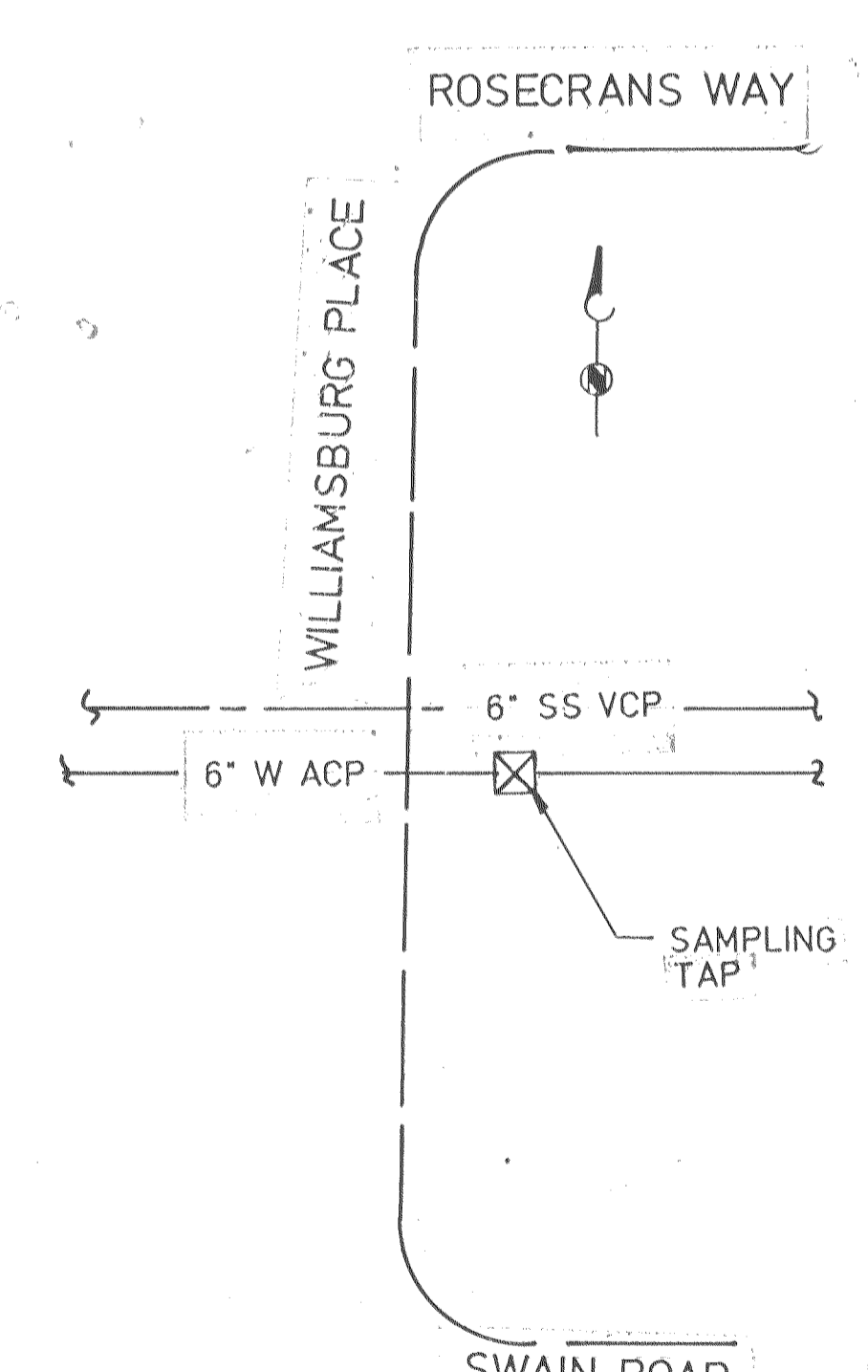
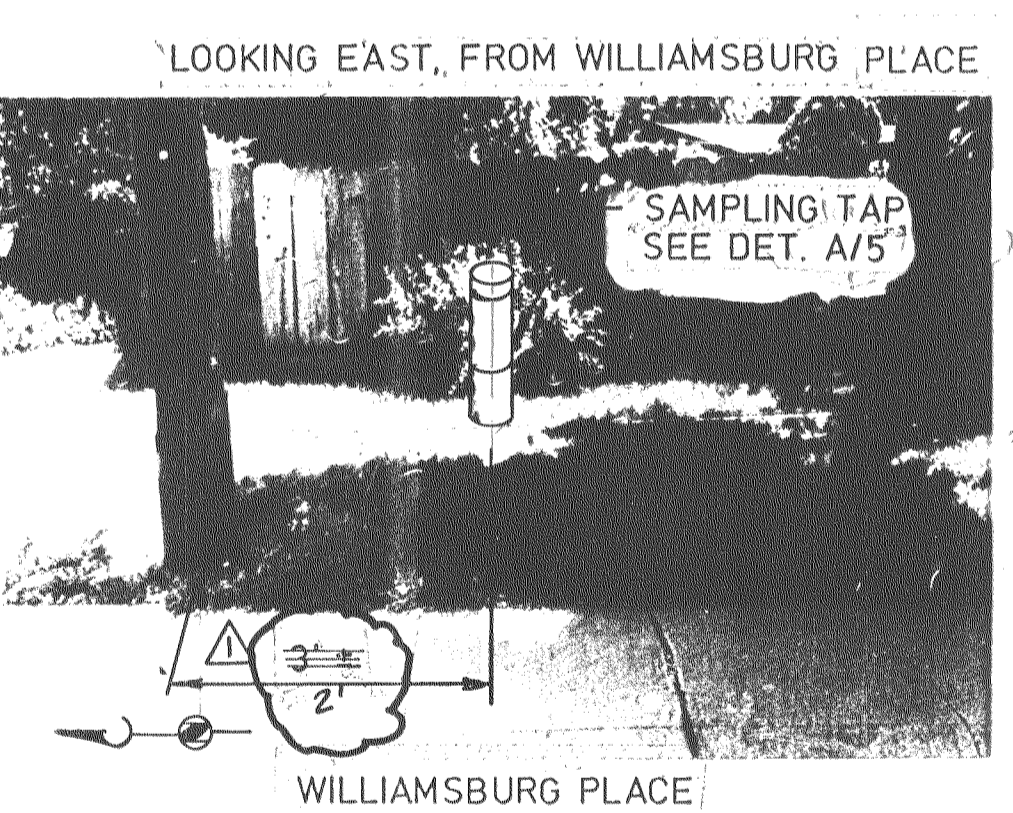
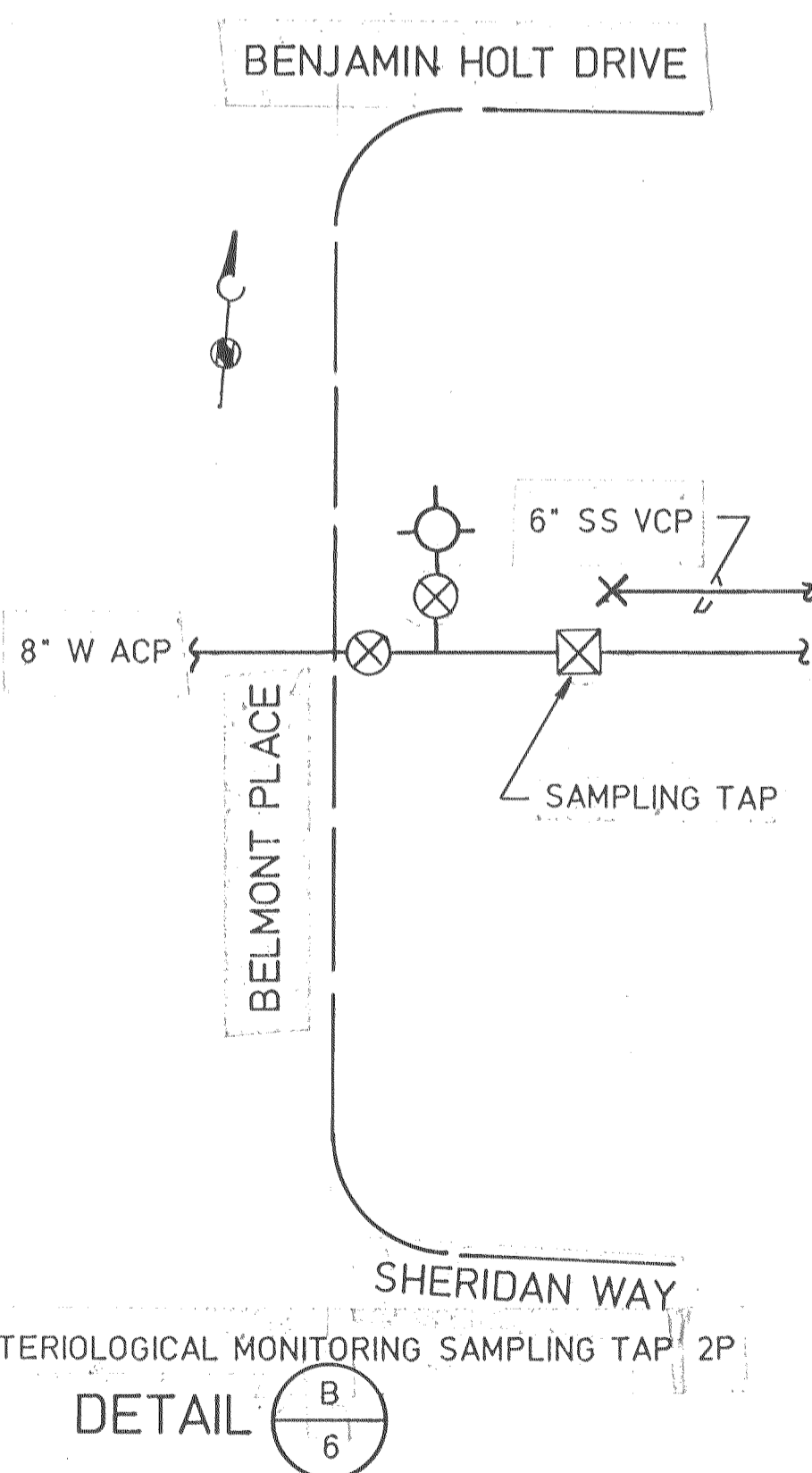
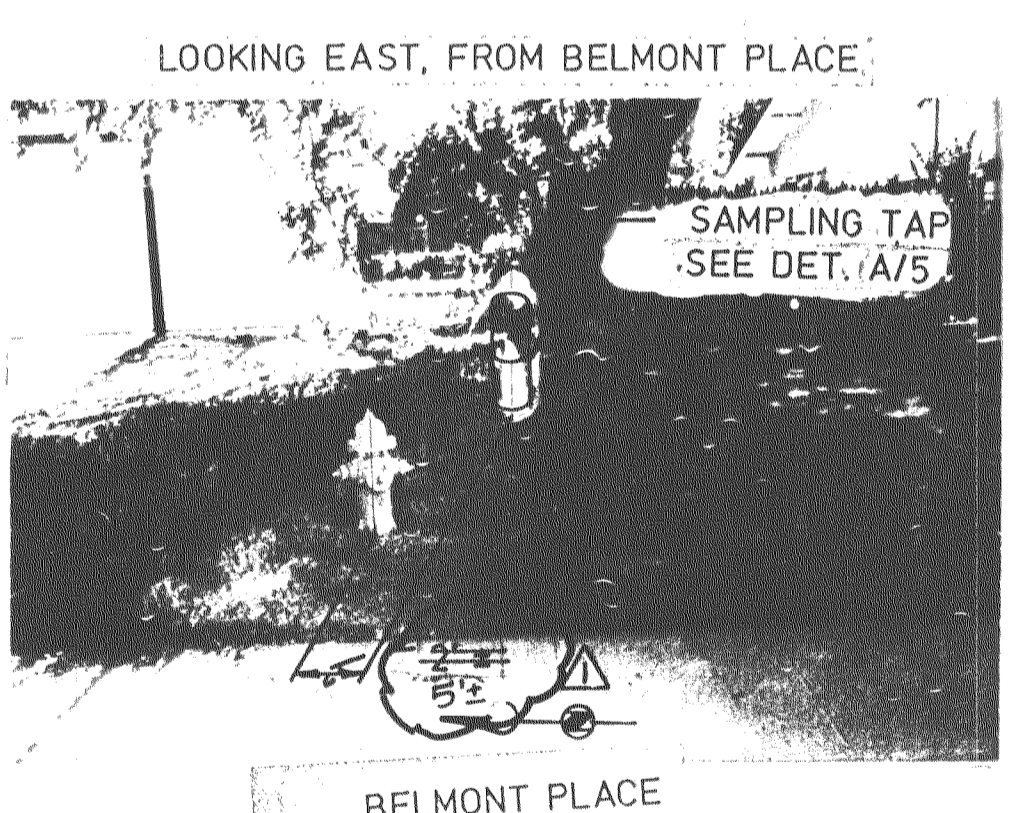
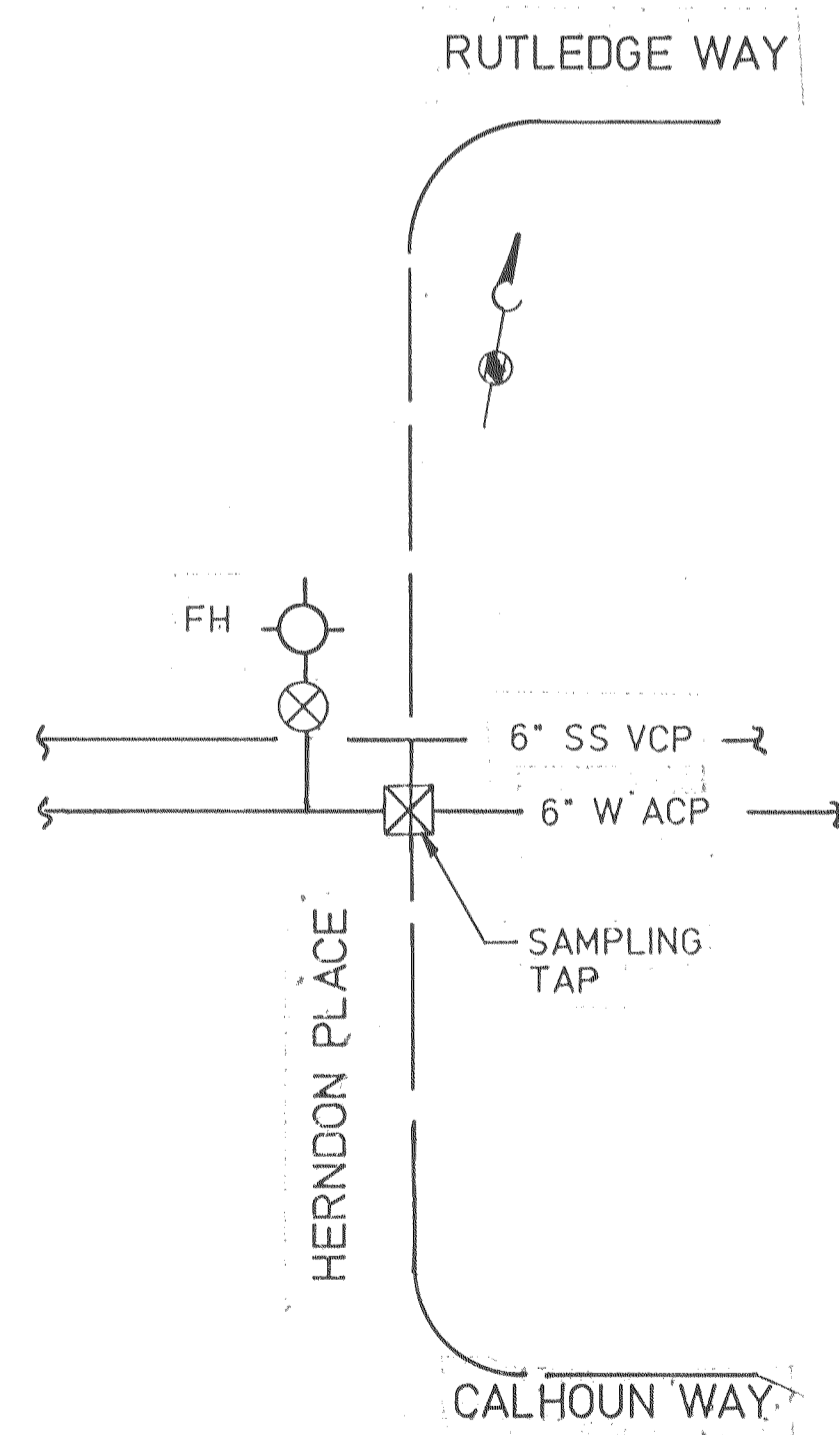
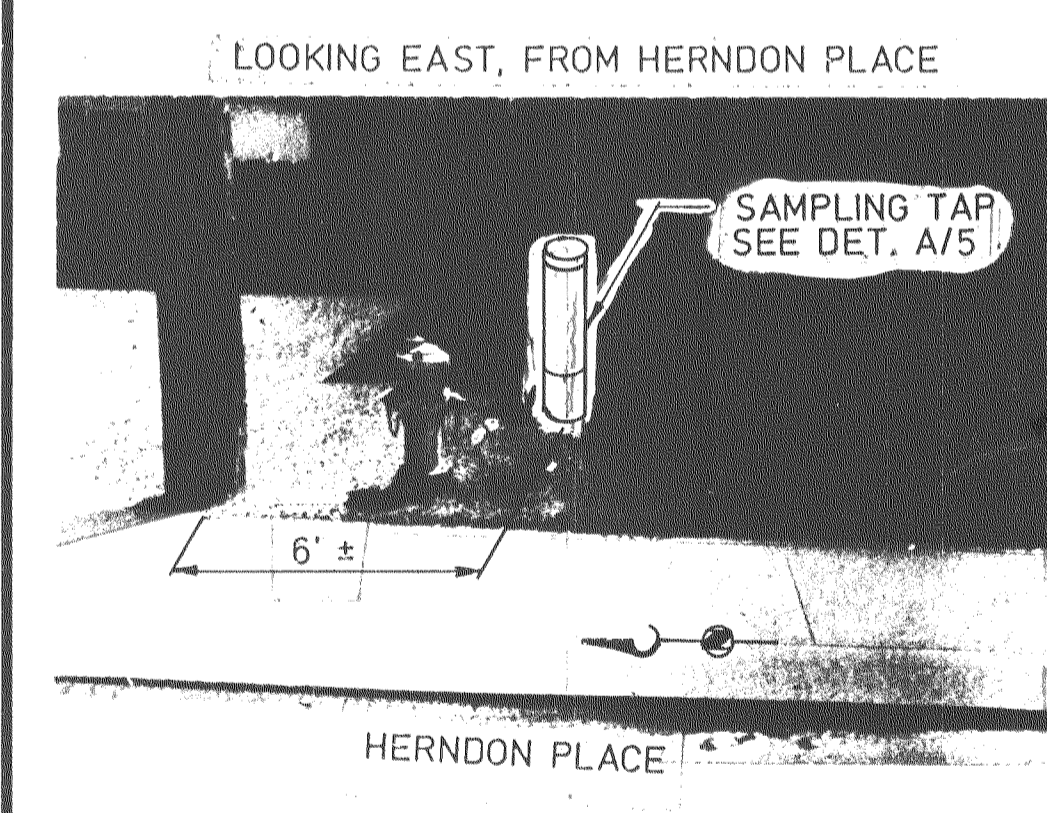


- NOTES:
1. Valve box and Lid shall be Christy No. G5, Brooks No. RT or 4-TT, or equal.
  2. All Lids and Grade Rings shall have machined sealing surfaces.
  3. Extensions shall be as manufactured for the Valve Box supplied or Pipe of correct size can be used.



VALVE BOX  
 DETAIL D/ VAR  
 NOT TO SCALE

CONFORMS TO RECORD DOCUMENTS



**BC BROWN AND CALDWELL**  
 CONSULTING ENGINEERS

FILE 2561  
 DATE JUNE 1986  
 DRAWN FNB  
 DESIGNED JEM  
 CHECKED CPB  
 SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

COUNTY OF **SAN JOAQUIN**  
 WATER SYSTEM IMPROVEMENTS  
**LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT**

BACTERIOLOGICAL MONITORING SAMPLING TAP  
 LOCATION DETAILS

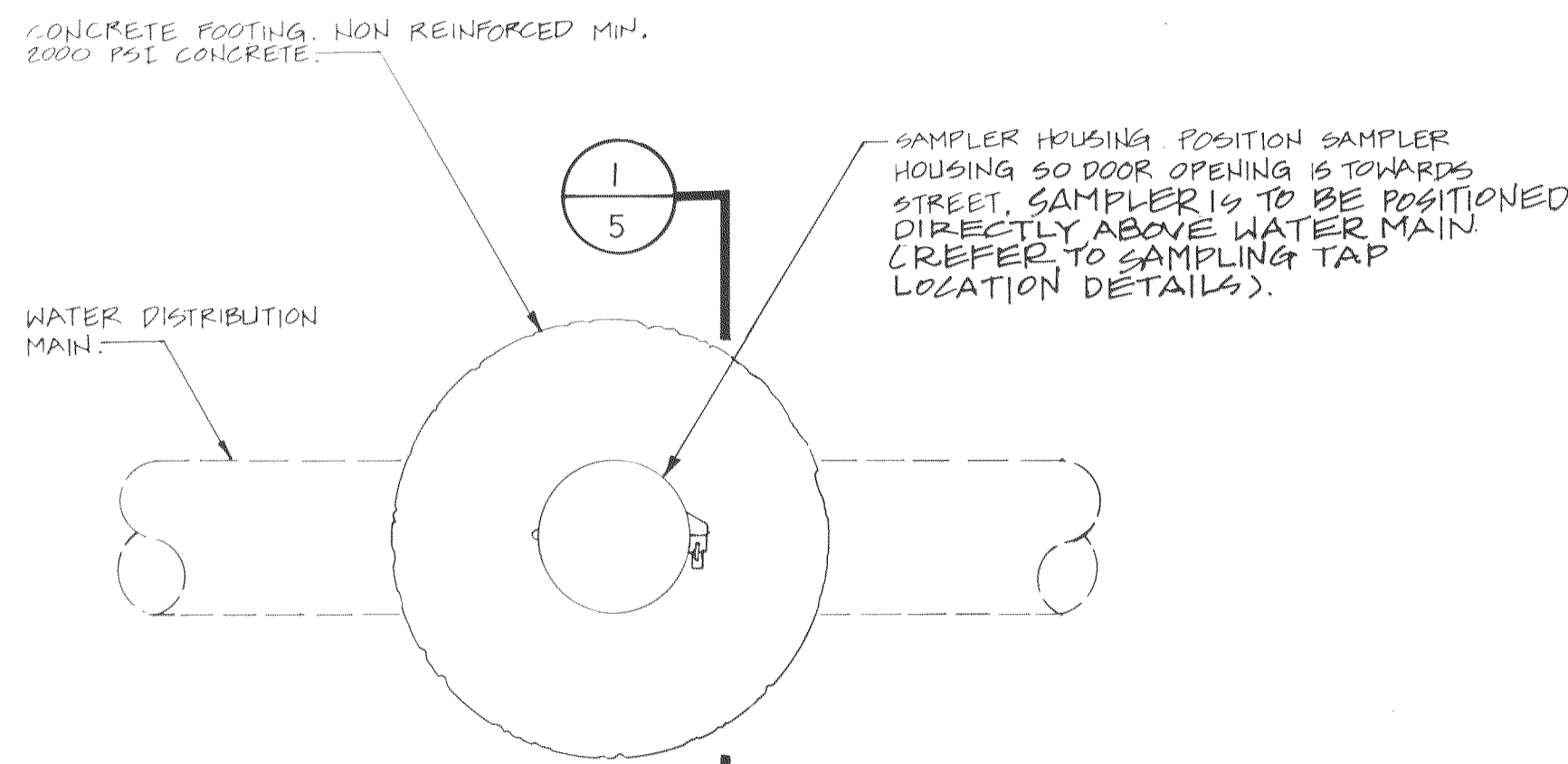
DRAWING NUMBER  
 6  
 SHEET 6 OF 11

SU 1876A

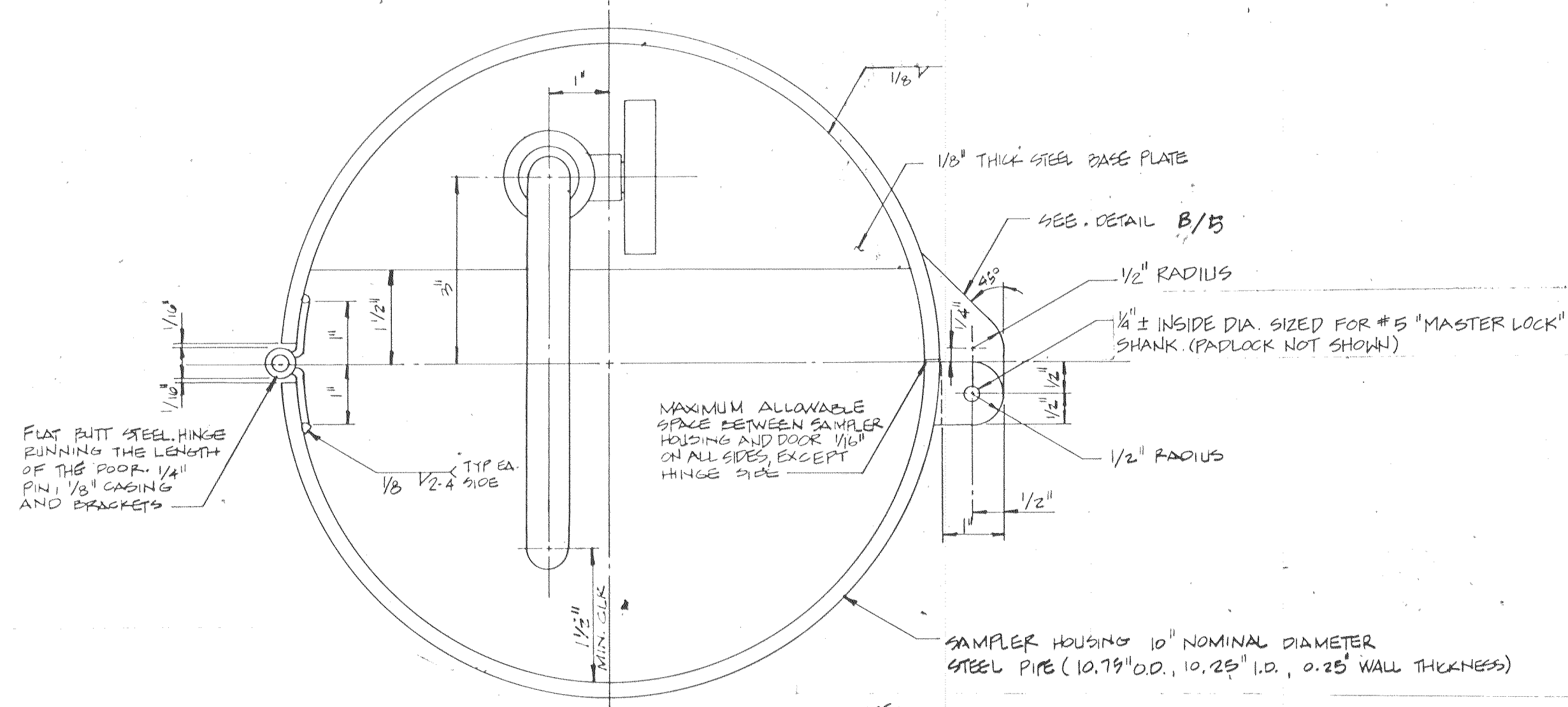
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ZONE		REV		REVISIONS			BY	DATE	APP
				AS BUILT					

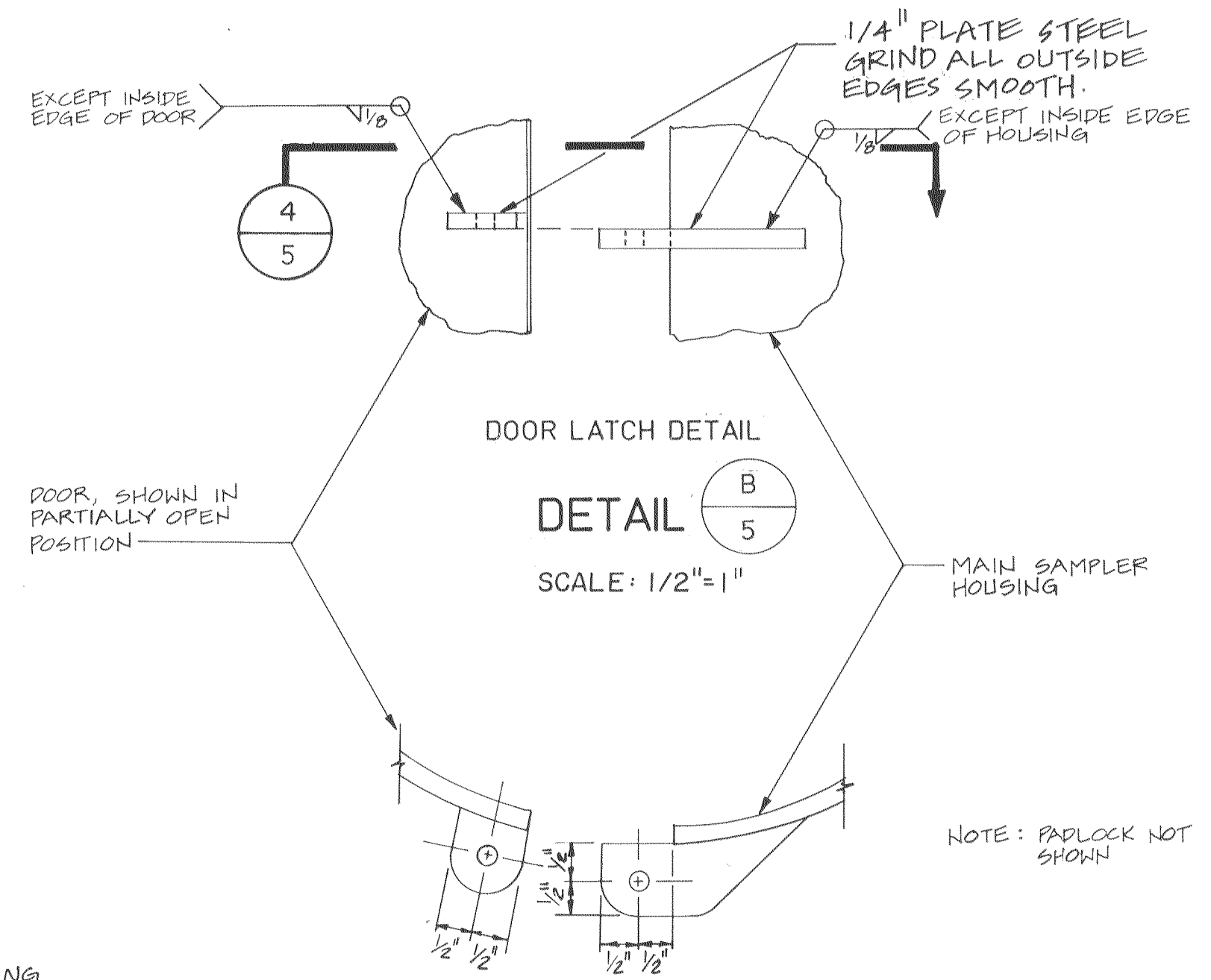


BACTERIOLOGICAL SAMPLING TAP  
DETAIL  $\frac{A}{5}$   
SCALE: 1" = 1'-0"

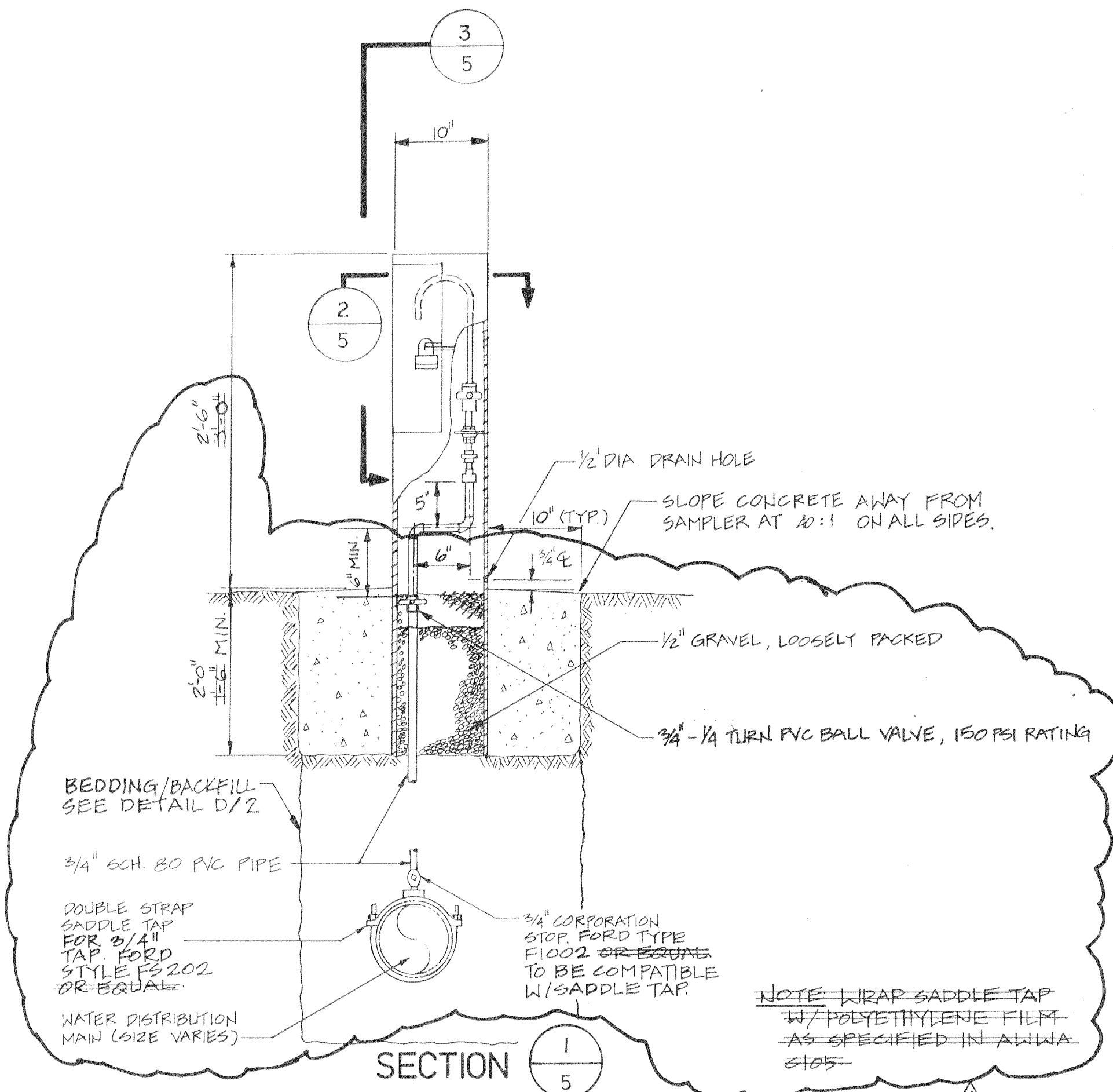


SECTION  $\frac{2}{5}$   
SCALE: 1/2" = 1"

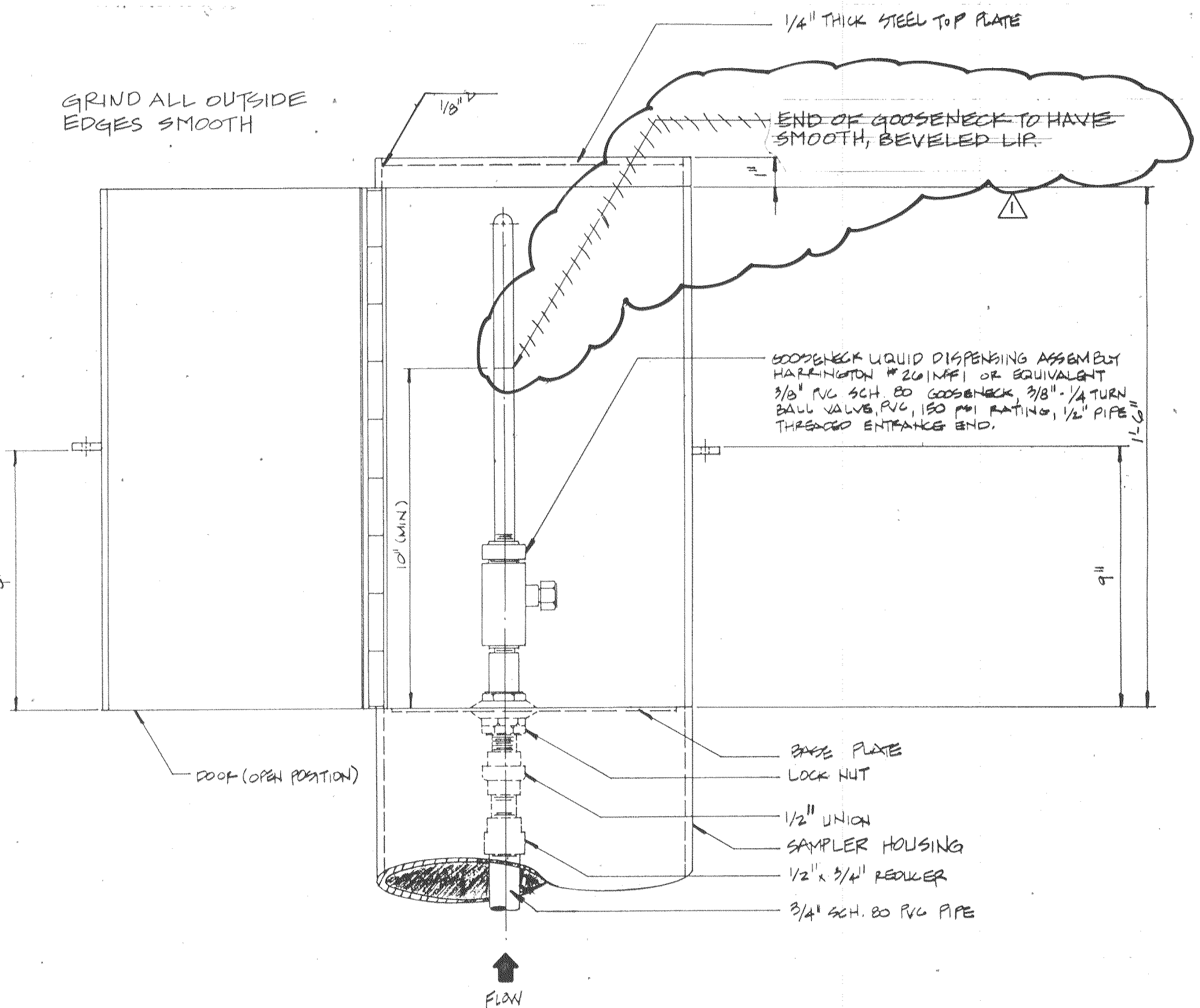
- NOTES:
- INTERIOR AND EXTERIOR SHALL BE SPRAY PAINTED W/CR-1 COATING PRIOR TO INSTALLATION. COLOR SHALL BE SILVER AND APPROVED BY THE ENGINEER. ONE EXTERIOR FINISH COAT SHALL BE APPLIED AFTER INSTALLATION.
  - CONTRACTOR SHALL PROVIDE ONE PADLOCK FOR EACH SAMPLING TAP AS APPROVED BY THE OWNER.



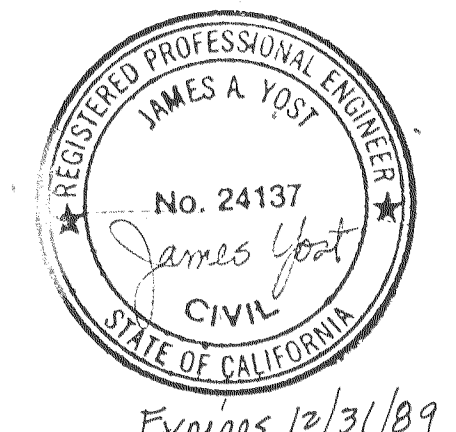
SECTION  $\frac{4}{5}$   
SCALE: 1/2" = 1"



SECTION  $\frac{1}{5}$   
SCALE: 1" = 1'-0"



SECTION  $\frac{3}{5}$   
SCALE: 1/4" = 1"



CONFORMS TO RECORD DOCUMENTS

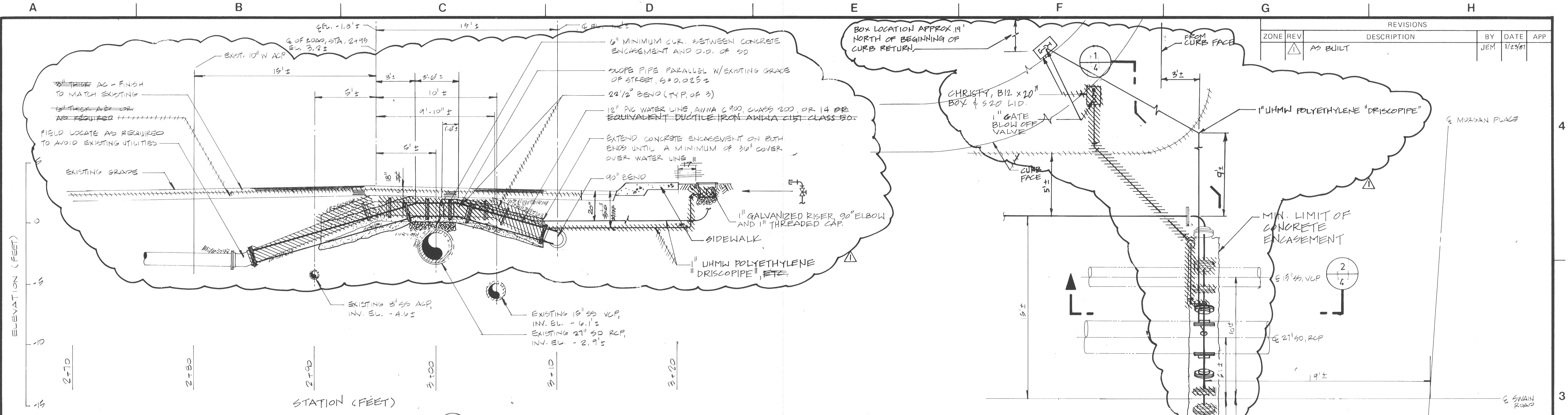
	FILE 2561	DESIGNED JEM	SUBMITTED _____ DATE _____	COUNTY OF <b>SAN JOAQUIN</b>	WATER SYSTEM IMPROVEMENTS <b>LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT</b>	DETAILS AND SECTIONS BACTERIOLOGICAL MONITORING SAMPLING TAP	DRAWING NUMBER
	DATE JUNE 1986	CHECKED CFS	APPROVED _____ DATE _____				5
	DRAWN ARS/JLB	CHECKED _____	APPROVED _____ DATE _____				SHEET 5 OF 11

SU-1877A

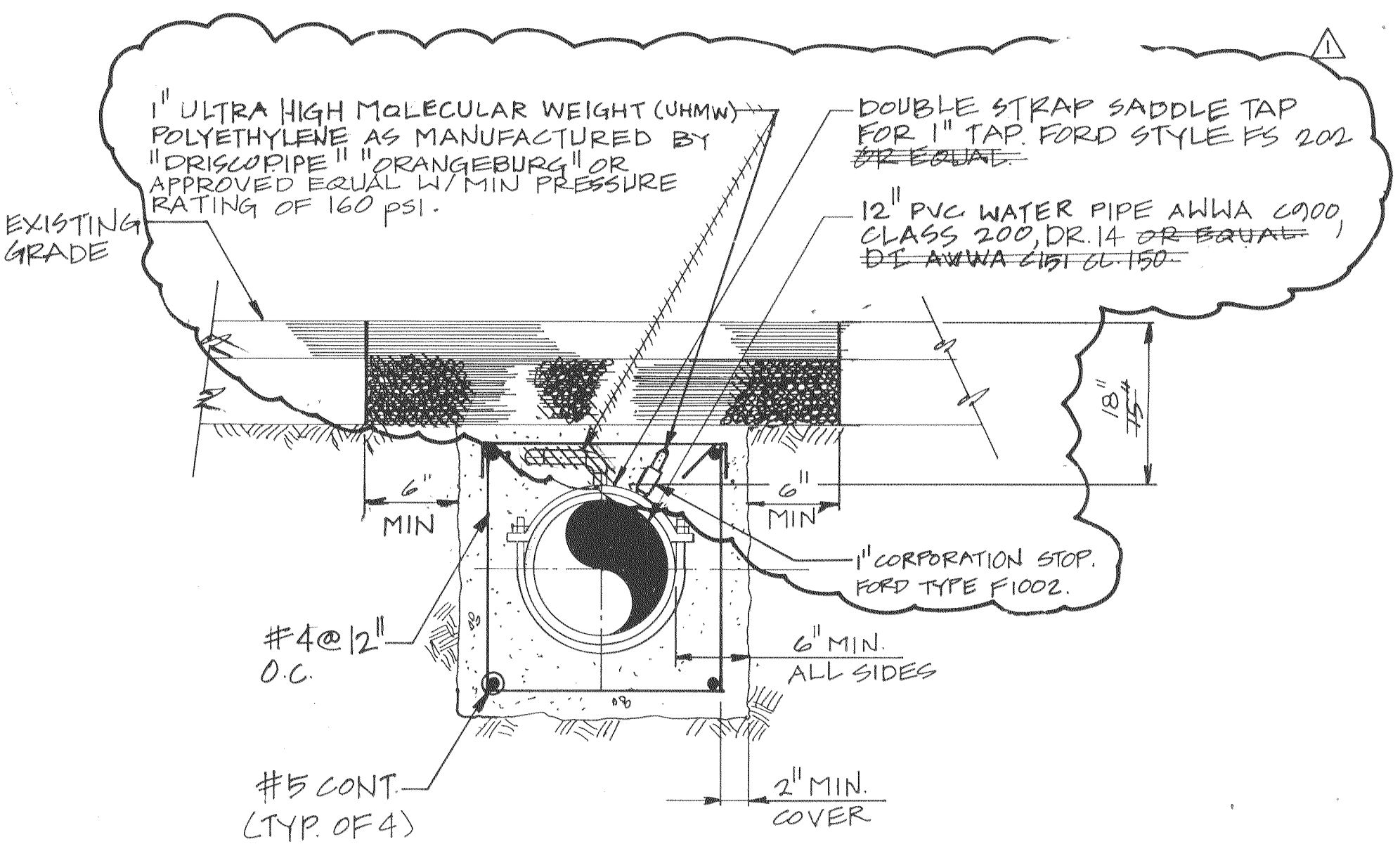
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CONTROL NO.

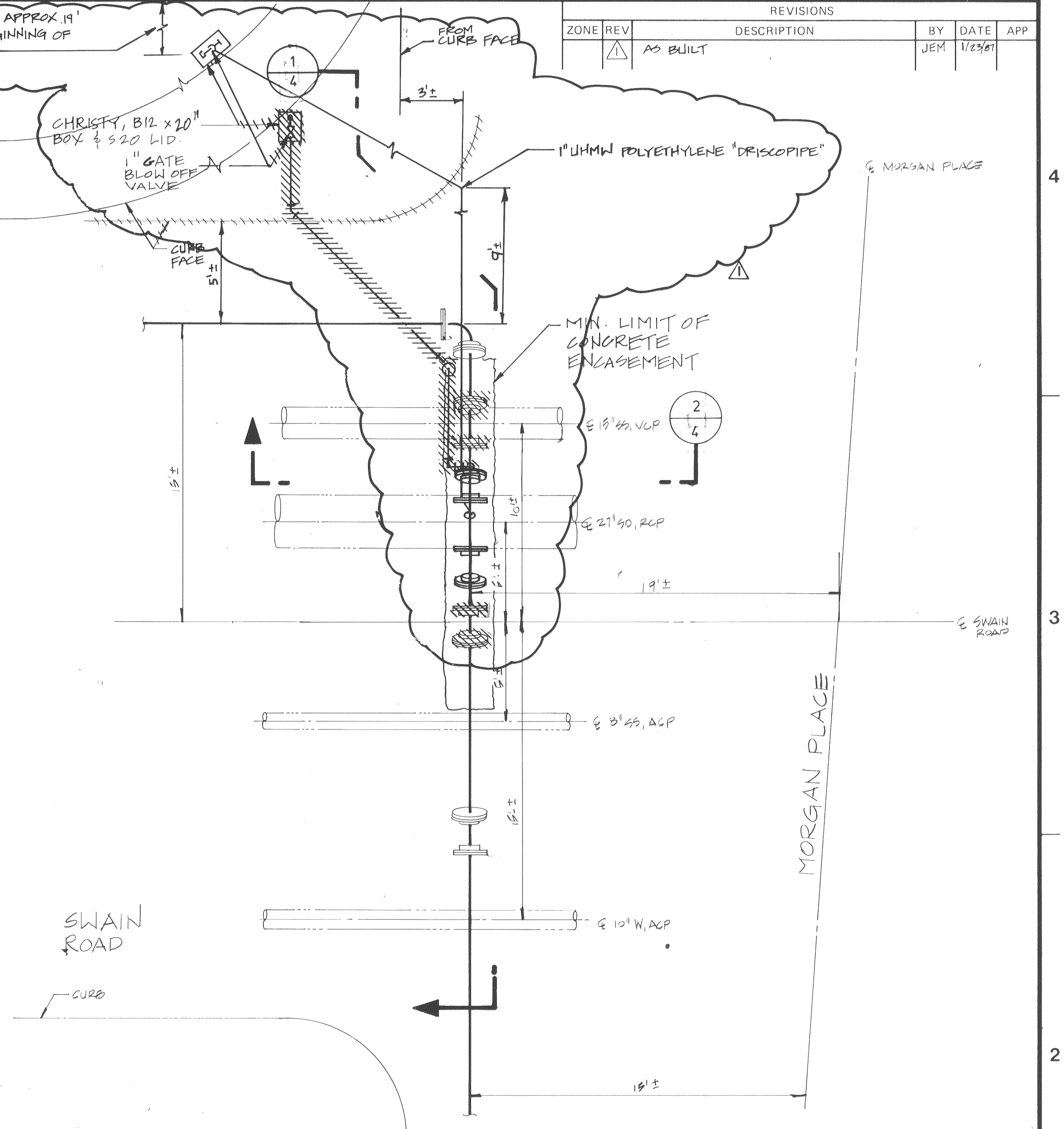
REVISIONS		BY	DATE	APP
ZONE	REV	DESCRIPTION		
AS BUILT				



SECTION 1  
SCALE: 1/4" = 1'-0"

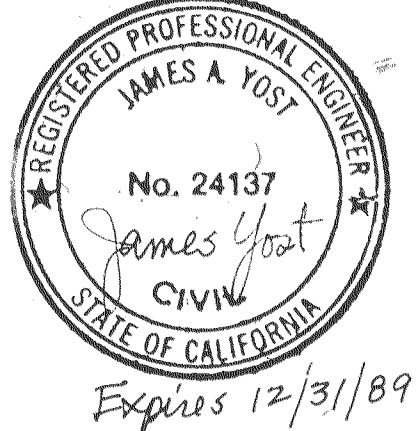


SECTION 2  
SCALE: 1" = 1'-0"



PLAN VIEW  
UTILITY CROSSING AT SWAIN ROAD AND MORGAN PLACE

DETAIL A  
SCALE: 1/4" = 1'-0"



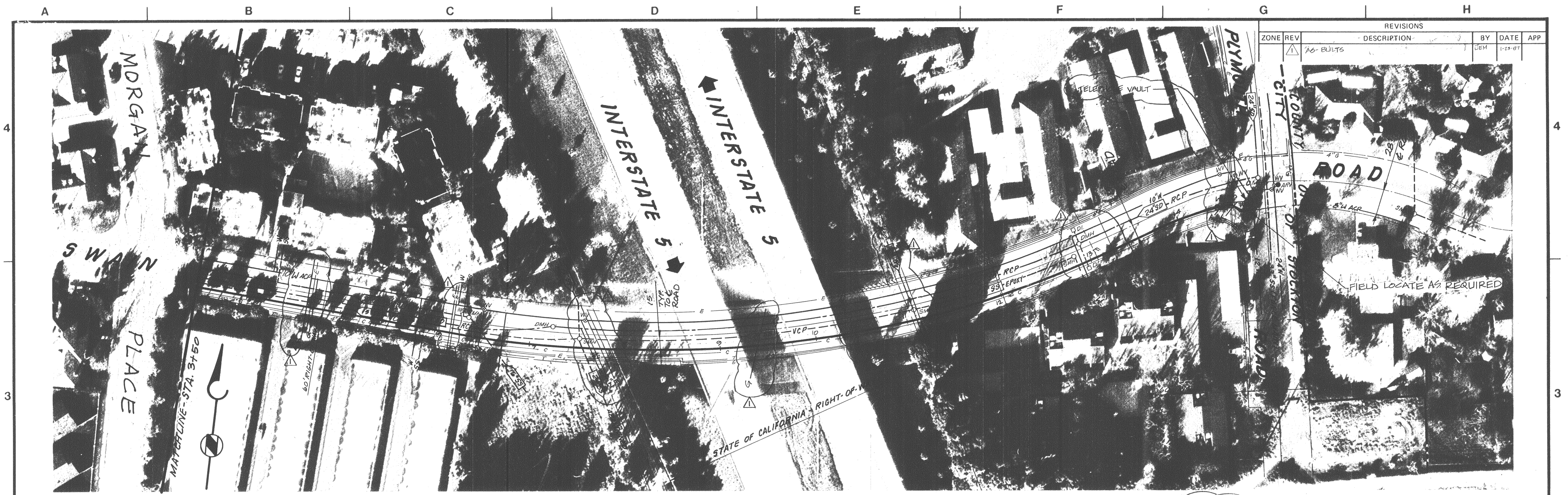
CONFORMS TO RECORD DOCUMENTS

	FILE 2561	DESIGNED JEM	SUBMITTED _____	DATE _____	COUNTY OF <b>SAN JOAQUIN</b>	WATER SYSTEM IMPROVEMENTS <b>LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT</b>	DETAILS AND SECTIONS SWAIN ROAD AND MORGAN PLACE UTILITY CROSSING	DRAWING NUMBER
	DATE JUNE 1986	CHECKED CFS	APPROVED _____	DATE _____				4
	DRAWN GRS/FWB	CHECKED _____	APPROVED _____	DATE _____				SHEET 4 OF 11
								D

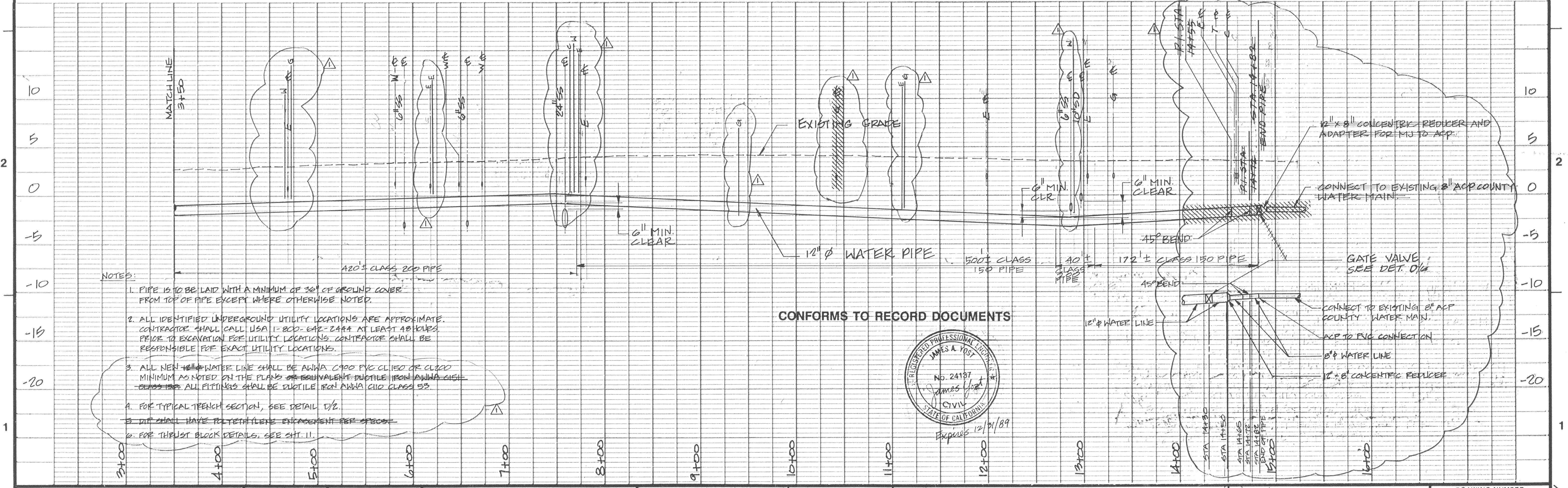
SU-1878



OVERLAYS							
% SCREEN							

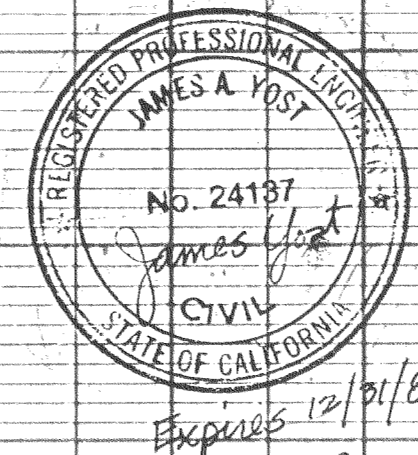



REVISIONS		BY	DATE	APP
1	AS-BUILTS	JEM	1-23-87	



- NOTES:
1. PIPE IS TO BE LAID WITH A MINIMUM OF 30\"/>
  2. ALL IDENTIFIED UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL CALL USA 1-800-642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION FOR UTILITY LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT UTILITY LOCATIONS.
  3. ALL NEW WATER LINE SHALL BE ANNA C400 PVC CL150 OR CL200 MINIMUM AS NOTED ON THE PLANS OR EQUIVALENT DUCTILE IRON ANNA CISEL CLASS 53. ALL FITTINGS SHALL BE DUCTILE IRON ANNA CISEL CLASS 53.
1. FOR TYPICAL TRENCH SECTION, SEE DETAIL D/2.
  2. DIT SHALL HAVE POLYETHYLENE ENCASEMENT PER SPEC.
  3. FOR THRUST BLOCK DETAILS, SEE SHT. 11.

CONFORMS TO RECORD DOCUMENTS



**BC BROWN AND CALDWELL**  
CONSULTING ENGINEERS

FILE 2561  
DATE JUNE 1986  
DRAWN GRS

DESIGNED JEM  
CHECKED CFB  
CHECKED

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'

COUNTY OF  
**SAN JOAQUIN**

WATER SYSTEM IMPROVEMENTS  
**LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT**

**PLAN AND PROFILE**  
SWAIN ROAD

DRAWING NUMBER  
**3**

SHEET 3 OF 11  
**D**

SU-1379 A

2561

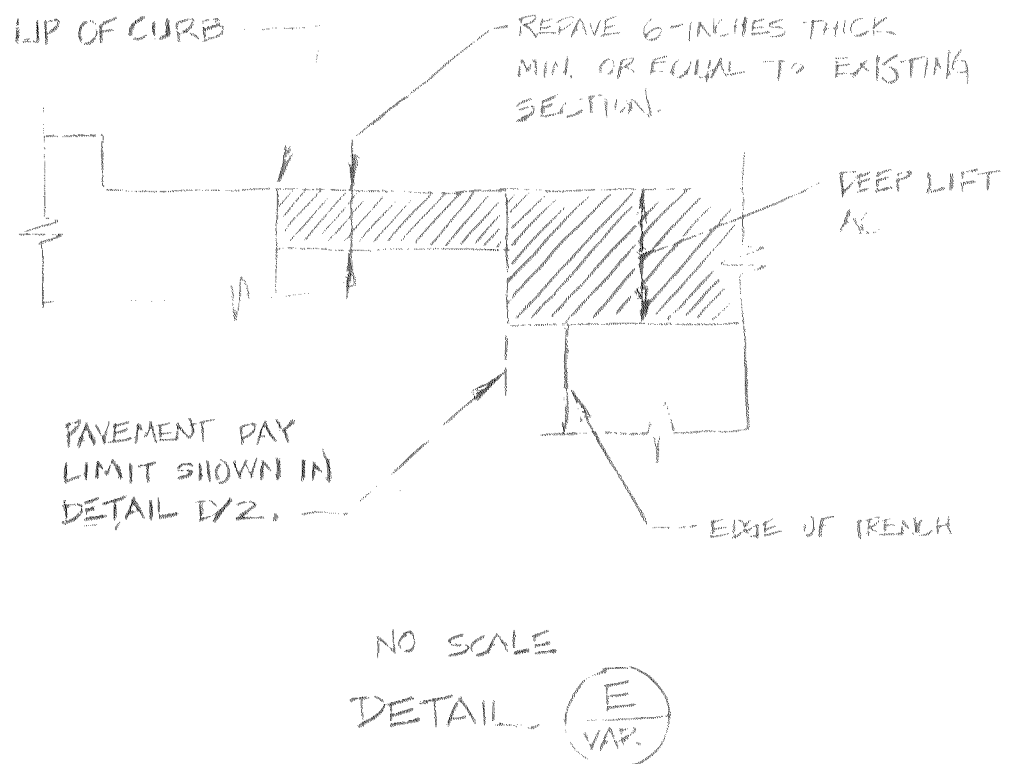
OVERLAYS					
% SCREEN					

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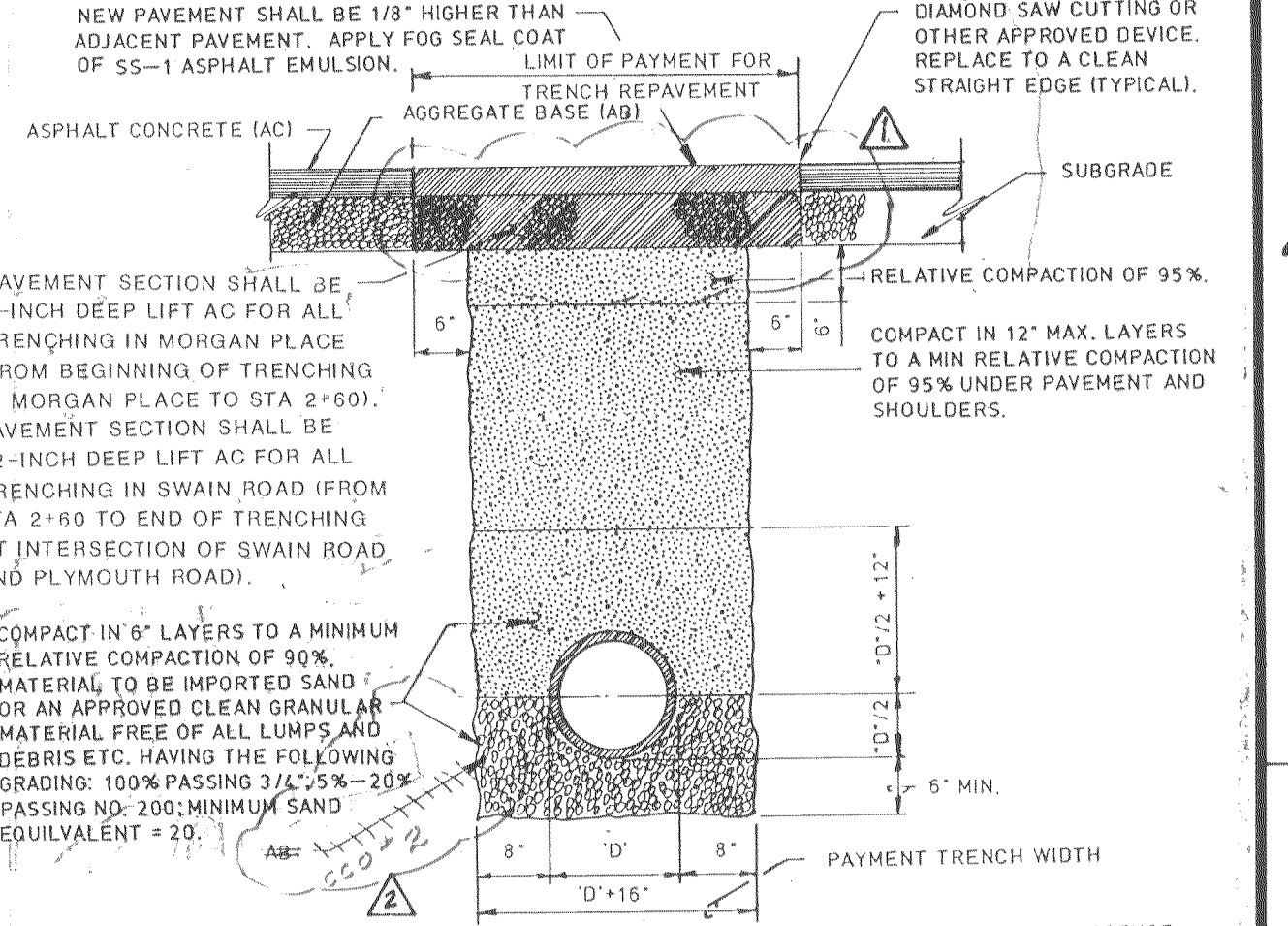


GENERAL NOTES FOR NEW WATER LINE:

1. ALL WORK IN SWAIN ROAD SHALL BE PERFORMED BETWEEN THE HOURS OF 9:30 AM AND 4:00 PM ONLY. A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE PROVIDED ON SWAIN ROAD AND ADJOINING COLLECTORS AT ALL TIMES. FULL TRAFFIC LANE CAPACITY SHALL BE RESTORED AT THE END OF EACH WORKING DAY BY 4:00 PM ON THESE ROADS.
2. FOR ALL TRENCHING WITHIN THE CITY OF STOCKTON RIGHT-OF-WAY REPAVING SHALL EXTEND TO THE LIP OF CURB, WHENEVER THE CENTERLINE OF TRENCH IS OFFSET FROM CENTERLINE OF ROAD MORE THAN 12 FEET. THE PAVEMENT SECTION FOR THE AREA BETWEEN PAVEMENT PAY LIMIT SHOWN ON DETAIL D/2 AND THE LIP OF CURB SHALL BE 6-INCHES THICK MINIMUM OR EQUAL TO THE EXISTING PAVEMENT SECTION. (SEE DETAIL E/2.)

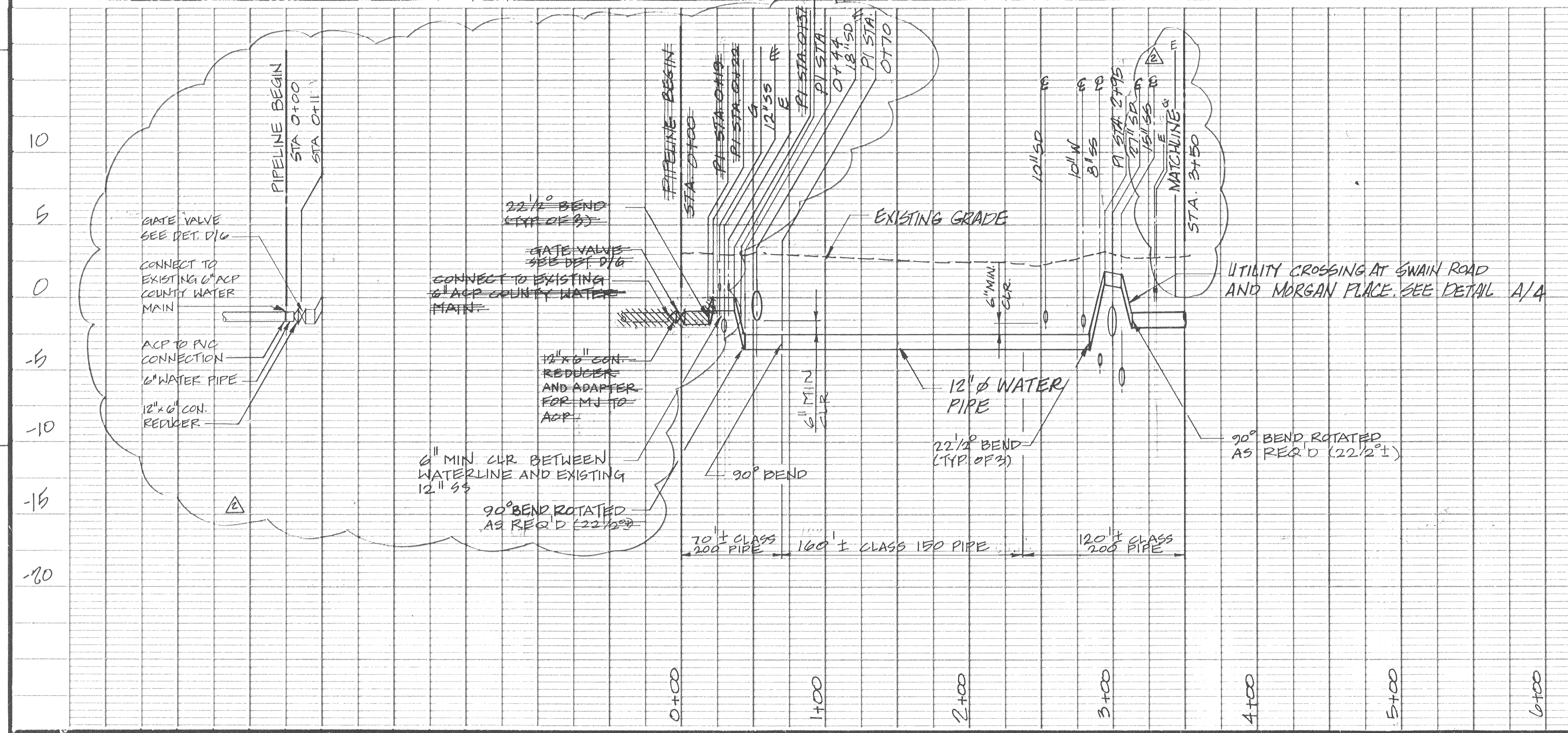


REVISIONS				
ZONE	REV	DESCRIPTION	BY	DATE
F4	1	AS BUILT	JEM	11/18/80
F4	2	AS BUILT	JEM	11/18/80



- NOTES:
1. PAVEMENT SECTION AS SPECIFIED IN AN ENCROACHMENT PERMIT SHALL TAKE PRECEDENCE OVER THE PAVEMENT SECTION AS SHOWN.
  2. DEVIATION FROM THIS DETAIL MAY BE ALLOWED WHEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS FOR R/W IN THE COUNTY, THE CITY ENGINEER FOR R/W IN THE CITY LIMITS, OR THEIR APPROVED REPRESENTATIVE.
  3. RELATIVE COMPACTION OF MATERIALS SHALL BE TESTED BY THE STATE OF CALIFORNIA DEPT. OF TRANSPORTATION TESTING MANUAL, TEST METHOD NO. CALIFORNIA 215 OR 231.
  4. ALL EXISTING PAVEMENT SHALL BE NEATLY CUT TO LINE PRIOR TO TRENCH EXCAVATION.
  5. NO JETTING OR PONDING SHALL BE PERMITTED.
  6. JOINTS SHALL BE SHAPED.
  7. TRENCHING OR EXCAVATIONS IN EASEMENTS AND OTHER AREAS NOT IN STREET R/W MAY BE BACKFILLED WITH NATIVE MATERIAL FREE OF LUMPS GREATER THAN 3", DEBRIS, HUMIC MATERIAL, ETC. TO A RELATIVE COMPACTION OF 85%, FROM D/2 TO 1" FROM D/2 + 12" TO 1" INCH ABOVE SURROUNDING GRADE. ANY SOD OR LANDSCAPING REMOVED OR DAMAGED, SHALL BE REPLACED IN KIND.

TYPICAL TRENCH SECTION  
DETAIL D VAR



CONFORMS TO RECORD DOCUMENTS

NOTES:

1. PIPE SHALL BE LAID W/ A MINIMUM OF 36" OF GROUND COVER FROM TOP OF PIPE EXCEPT WHERE OTHERWISE NOTED.
2. ALL IDENTIFIED UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL CALL U.S.A. 1-800-842-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION FOR UTILITY LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT UTILITY LOCATIONS.
3. ALL NEW 12" WATER LINE SHALL BE AWWA C900 PVC CL 150 OR CL 200 MINIMUM AS NOTED ON THE PLANS OR EQUIVALENT DUCTILE IRON AWWA C151 CLASS 500. ALL FITTINGS SHALL BE DUCTILE IRON AWWA C110.
4. FOR TYPICAL TRENCH SECTION, SEE DET D/2.
5. DIP SHALL HAVE POLYETHYLENE ENGAGEMENT PER SPECS.
6. FOR THRUST BLOCK DETAILS, SEE SHEET 11.

30-1880

1256

REVISIONS				
ZONE	REV	DESCRIPTION	BY	DATE
	1	AS BUILT	JEM	1/27/87

SUBMITTED *Henry M. Hirata*  
 HENRY M. HIRATA  
 R.C.E. 21258  
 Director of Public Works

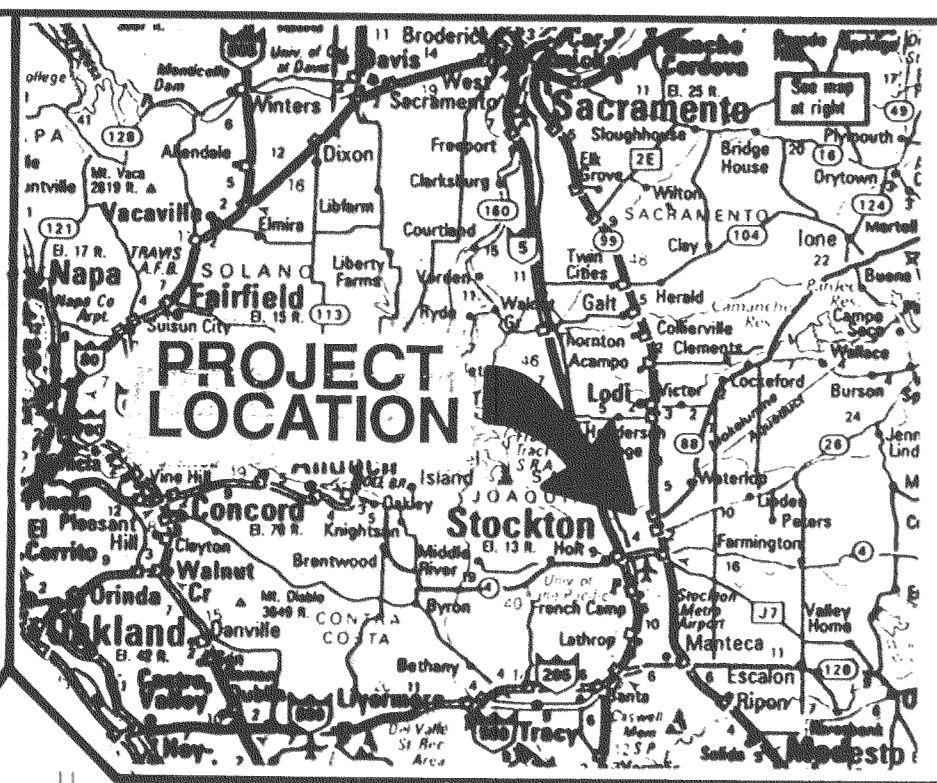
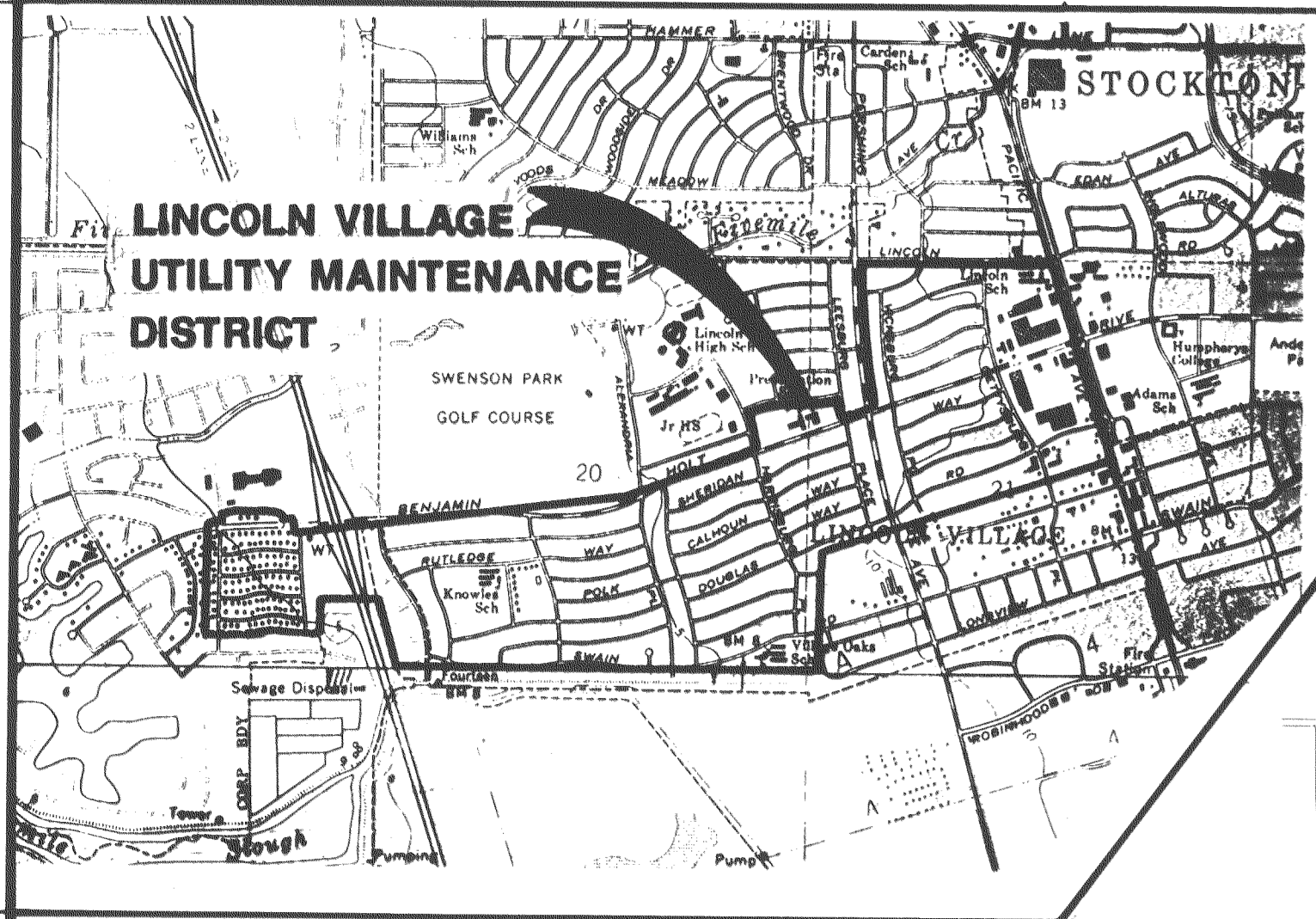
# COUNTY OF SAN JOAQUIN

## CONTRACT DOCUMENTS

### FOR

# WATER SYSTEM IMPROVEMENTS

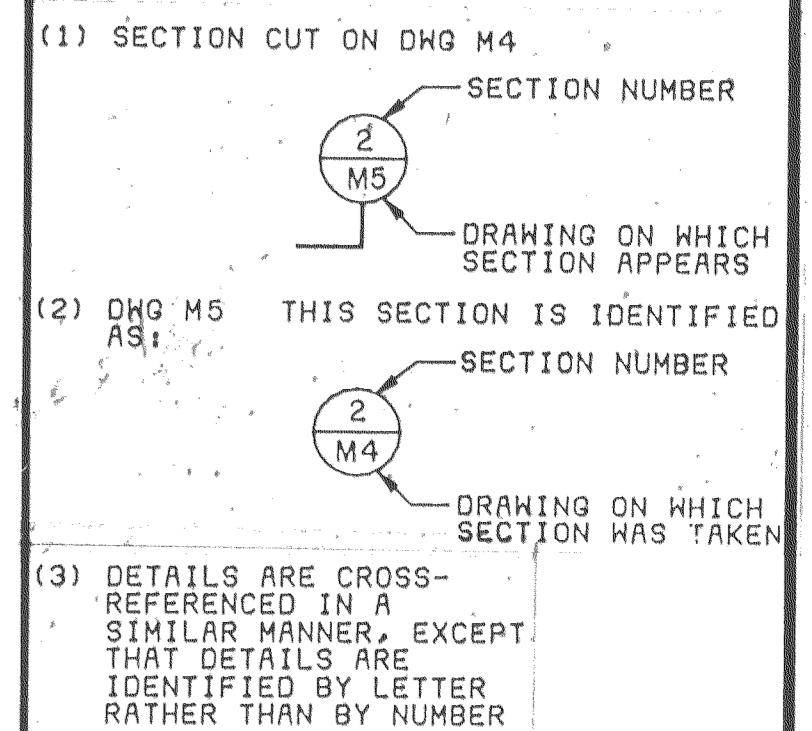
# LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT



1. COVER SHEET
2. PLAN AND PROFILE MORGAN PLACE
3. PLAN AND PROFILE SWAIN ROAD
4. DETAILS AND SECTIONS SWAIN ROAD AND MORGAN PLACE UTILITY CROSSING
5. BACTERIOLOGICAL MONITORING SAMPLING TAP DETAILS AND SECTIONS
6. BACTERIOLOGICAL MONITORING SAMPLING TAP LOCATION DETAILS
7. BACTERIOLOGICAL MONITORING SAMPLING TAP LOCATION DETAILS
8. BACTERIOLOGICAL MONITORING SAMPLING TAP LOCATION DETAILS AND CHLORINATION SYSTEM DETAILS
9. CHLORINATION SYSTEM MODIFICATIONS
10. CHLORINATION SYSTEM MODIFICATIONS
11. THRUST BLOCK DETAILS

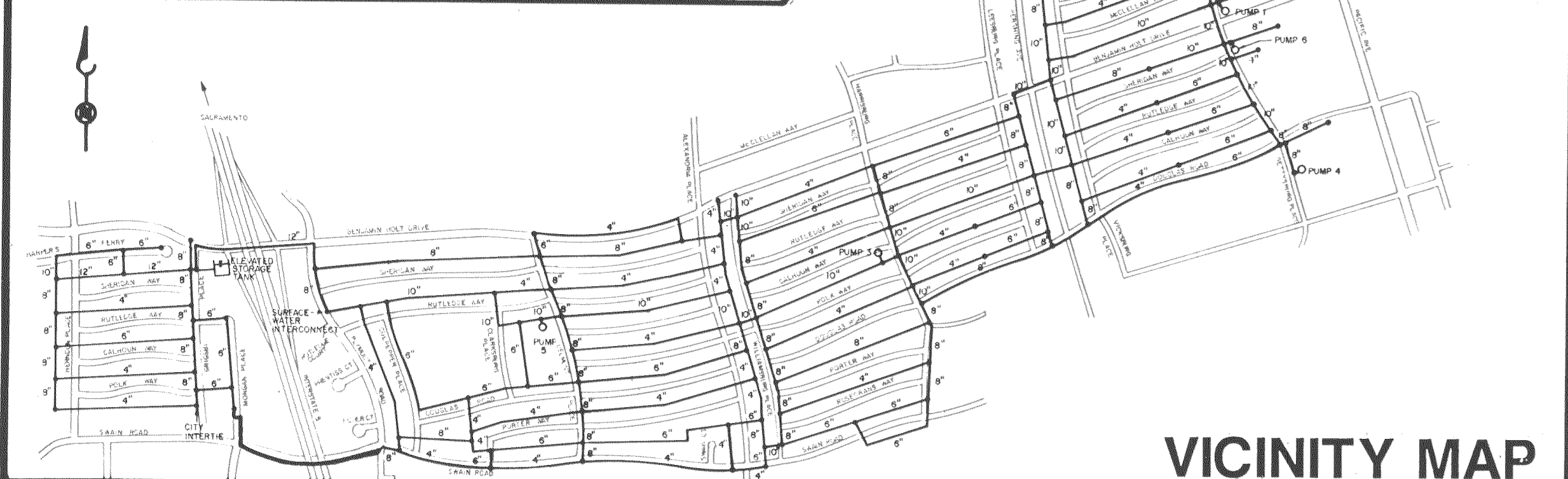
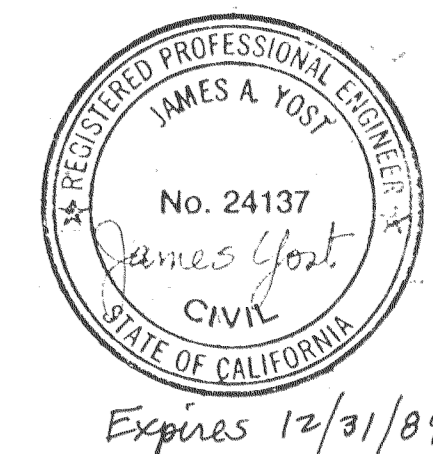
- PROPOSED WATER LINE
- EXISTING WATER LINE
- EXISTING STORM DRAINAGE LINE
- EXISTING SANITARY SEWER LINE
- DMH STORM DRAIN MANHOLE
- SMH SANITARY SEWER MANHOLE
- ◆ FH FIRE HYDRANT
- DI DROP INLET
- ⊙ WV WATER VALVE
- ARV AIR RELEASE VALVE
- ▷ Bo BLOW-OFF
- C CABLE TELEVISION
- T TELEPHONE LINE
- E ELECTRICAL LINE
- G GAS LINE
- LIMITS OF RIGHT-OF-WAY
- CITY LIMIT
- ☉ OF ROAD
- SWING CHECK VALVE
- Y-Y STRAINER
- GATE VALVE

- AB AGGREGATE BASE OR ANCHOR BOLT
- ACP ASBESTOS-CEMENT PIPE
- CLR CLEAR
- CLS CHLORINE SOLUTION
- CLV CHLORINE VACUUM
- CONT. CONTINUOUS
- DET DETAIL
- DI DROP INLET
- DMH STORM DRAIN MANHOLE
- ECC ECCENTRIC
- EL ELEVATION
- E.W. EACH WAY
- FH FIRE HYDRANT
- I.D. INSIDE DIAMETER
- MIN MINIMUM
- O.C. ON CENTER
- O.D. OUTSIDE DIAMETER
- PSI POUNDS/SQUARE INCH
- RCP REINFORCED CONCRETE PIPE
- REQ'D REQUIRED
- RW RAW WATER
- SD STORM DRAIN
- SMH SANITARY SEWER MANHOLE
- SP STEEL PIPE
- SS SANITARY SEWER
- SST STAINLESS STEEL
- STA. STATION
- TYP TYPICAL
- VCP VITRIFIED CLAY PIPE
- W/ WITH
- WV WATER VALVE
- MJ MECHANICAL JOINT
- PI POINT OF INTERSECTION



TYPICAL SECTION AND  
DETAIL NUMBERING SYSTEM

CONFORMS TO  
RECORD DOCUMENTS



SHEET INDEX

SYMBOLS

ABBREVIATIONS

**BC** BROWN AND CALDWELL  
CONSULTING ENGINEERS

FILE 2561  
DATE JUNE 1986  
DRAWN FWB

DESIGNED JEM  
CHECKED JFS  
CHECKED

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

COUNTY OF  
SAN JOAQUIN

WATER SYSTEM IMPROVEMENTS  
LINCOLN VILLAGE UTILITY MAINTENANCE DISTRICT

COVER SHEET

DRAWING NUMBER  
1

SHEET 1 OF 11

SU-1881