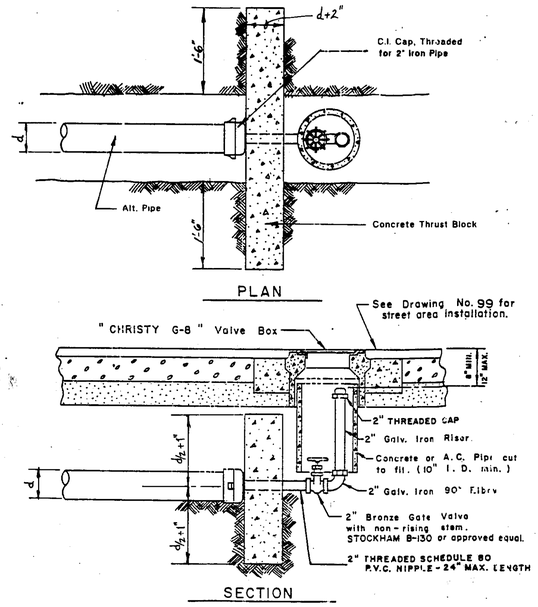
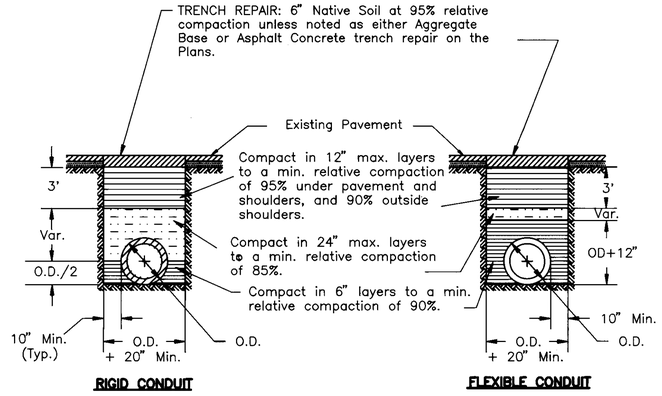


TEMP BLOWOFF DETAIL 2/18



NOTES:

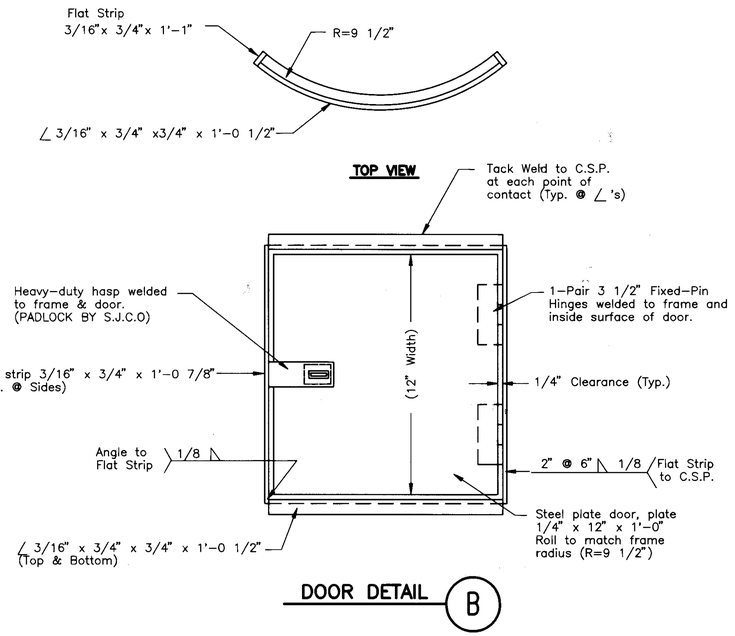
1. Relative compaction of materials shall be tested by the State of California, Dept of Transportation Testing Manual, test method No. California 216 or 231.
2. All existing pavement shall be neatly cut to line prior to trench excavation.

TYPICAL TRENCH BACKFILL 1/18

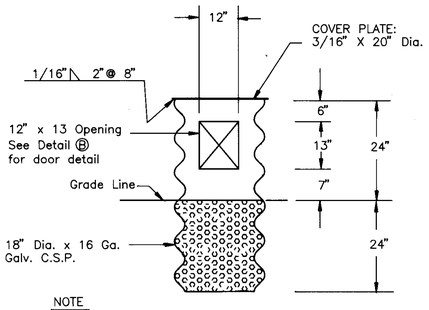
BASE BID QUANTITIES

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT OF MEASURE
1.	FORCE ACCOUNT	$2000.00	- - -
2.	CLEARING & GRUBBING	1	L.S.
3.	EARTHWORK (MISC. AREAS)	1	L.S.
4.	AGGREGATE BASE (TRENCH REPAIR)	165	S.Y.
5.	A.C. MISC AREAS (TRENCH REPAIR, 0.20')	275	S.Y.
6.	A.C. MISC. AREAS (TRENCH REPAIR, 0.30')	650	S.Y.
7.	A.C. MISC AREAS (WELLSITE 0.20')	102	S.Y.
8.	A.C. MISC AREAS (WELLSITE 0.50')	170	S.Y.
9.	6" DIA ALT PIPE	1160	L.F.
10.	8" DIA ALT PIPE	5664	L.F.
11.	6" GATE VALVE	4	EA.
12.	8" GATE VALVE	16	EA.
13.	FIRE HYDRANT W/APPURTANANCES	13	EA.
14.	BORE AND JACK 8" DIA PIPE	254	L.F.
15.	DOMESTIC WATER WELL	1(S)	L.S.
16.	PUMPING & ELECTRICAL EQUIPMENT	1(S)	L.S.
17.	PUMP HOUSE	1	L.S.
18.	ANALYSES OF WATER	1	EA.
19.	FENCE (CL-6)	300(S)	L.F.
20.	16' CHAIN LINK GATE	1(S)	EA.
21.	HOUSE SERVICE, 1" (INCL. METER)	38	EA.
22.	HOUSE SERVICE, 2" (INCL. METER)	9	EA.
23.	AIR RELIEF VALVE	1	EA.

(S) Denotes Specialty item.



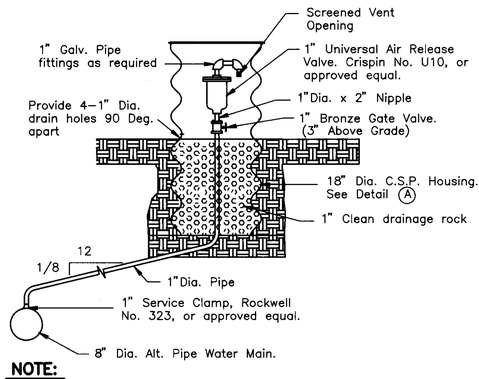
DOOR DETAIL B



NOTE

After assembly, all non galvanized components shall receive two (2) coats of Inertol No. 5504 aluminum paint over one (1) coat of Inertol No. 636 prime coat.

DOOR DETAIL A



NOTE:
Screened vent shall be no less than 12" above adjacent grade.

AIR VACUUM RELEASE VALVE 3/18

ADDITIVE ALTERNATE 1 QUANTITIES

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT OF MEASURE
1.	FORCE ACCOUNT	$800.00	- - -
5.	A.C. MISC AREAS (TRENCH REPAIR, 0.20')	9	S.Y.
6.	A.C. MISC. AREAS (TRENCH REPAIR, 0.30')	150	S.Y.
9.	6" DIA ALT PIPE	1202	L.F.
10.	8" DIA ALT PIPE	415	L.F.
11.	6" GATE VALVE	2	EA.
13.	FIRE HYDRANT W/APPURTANANCES	3	EA.
21.	HOUSE SERVICES, 1" (INCL. METERS)	13	EA.

SW 2317

REVISIONS	DATE

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.C. WHITE	8/14/89								
S. E. White	3/19/90	Sean McSherman	3/19/90			Manuel Silveira	3/19/90		3/19/90

FILE NAME	DRAWER	SHEET NO.	ACAD
			\CLEMENT\SHEET 18

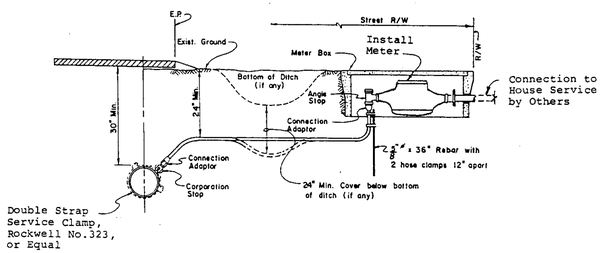
SCALE: NONE

CONSTRUCTION NOTES AND DETAILS

PROJECT: CLEMENTS WATER SYSTEM Phase 1

SHEET NO. 18 | TOTAL SHEETS 18

BRIDGE FILE INDEX NO.

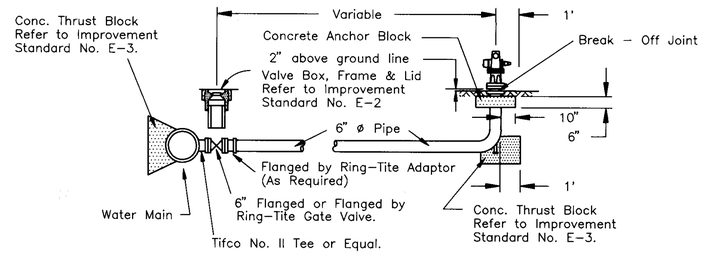


NOTES

1. Service lines shall be Type K copper tubing per ASTM B-88, PB 2110 polybutylene plastic pipe, or approved equal with a minimum pressure rating of 160 psi.
2. Corporation stop shall have corporation cock threads.
3. Angle stop shall have swivel nut and lock wing and shall be vertically plumbed.
4. Curb stop and corporation stop shall be ball type; Jones, ford, or approved equal.
5. Size of service line shall be as shown on the Plans.
6. Meter boxes shall have traffic rated covers when located in alleys and areas subject to traffic loads.

WATER SERVICE DETAIL

6 / 17

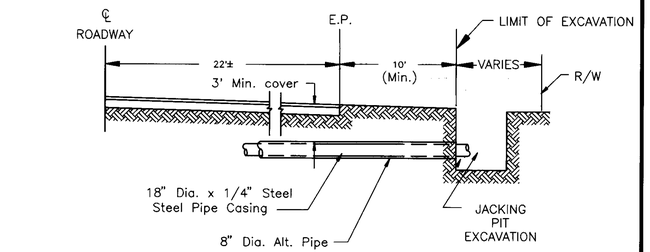


NOTES:

1. Fire Hydrants shall be placed with 4" outlet facing directly towards the street.
2. Fire Hydrants shall be clean and free of concrete.
3. Fire Hydrants to be American Darling Model B-62B, Dresser M&H Style 929 "Reliant", Mueller "Centurion" or "Modern Centurion", or approved equal (2-2 1/2" & 1-4" outlets).
4. All Hydrants shall be painted OSHA safety yellow or as required by local Fire District.

HYDRANT DETAIL

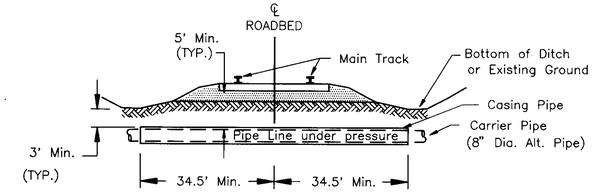
3 / 17



1. Casing shall be 18" Dia. x 1/4" longitudinally seamed steel pipe.
2. Casing ends shall be plugged as approved by Caltrans.
3. Excavation pits shall be adequately fenced and shoring shall be placed per CAL-OSHA requirements.
4. All work shall be in accordance with the California Department of Transportation "Encroachment Permit Utility Out Provisions", July, 1987.
5. Contractor shall obtain an Encroachment Permit from Caltrans prior to performing any work within the State Right-of-Way.
6. Casing shall extend 5 feet, minimum, beyond edge of pavement of receiving side.

BORE DETAIL

1 / 17



1. Distance from bottom of tie to top of pipe, casing or concrete encasement shall be not less than 5'-0".
2. Pipe lines under pressure crossing tracks other than main tracks and sidings do not require a casing provided the carrier pipe is of sufficient strength to support the track and has water-tight joints. For such pipe lines, casings lighter than specified below may be used for installing pipe, provided the space between carrier pipe and casing is backfilled with grout or sand.

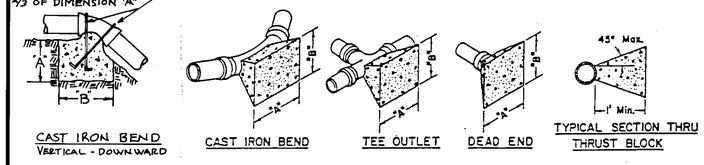
   If carrier pipe does not have sufficient strength to support track, casing or concrete encasement must be installed. Length of casing measured at right angles to track shall extend each side of center line of track four feet plus the vertical distance from bottom of tie to top of casing or encasement but not less than ten feet.
3. Metal casing for supporting track shall be 18" dia. x 1/4" Steel Pipe and shall have welded joints. It shall be galvanized or shall be dipped in preservative material and thoroghly coated inside and outside. If preservative material cannot be used on inside of casing, then the casing shall be at least one gage or 1/16" thicker than otherwise required.
4. The inside diameter of casing shall be at least 2 inches greater than the largest outside diameter of carrier pipe.
5. Casing shall be so installed as to prevent formation of waterway under the railway. It shall have even bearing thoughout its length and shall slope toward one end.
6. Carrier pipe shall be of an approved type with water-tight joints.
7. When practicable, casing may be installed by the jacking or boring method. If installed by tunneling, space around carrier pipe must be backfilled with grout or sand.
8. The ends of the casing shall be suitably protected against the entrance of foreign material, which might prevent ready removal of the carrier pipe.

BORE DETAIL

2 / 17

3/4" ø ANCHOR RODS. FIELD COAT W/ COAL TAR TO PREVENT CORROSION

EMBED RODS AT LEAST 2/3 OF DIMENSION "A"



VERTICAL DIMENSIONS		
FITTINGS	"A"	"B"
6" LINE		
22 1/2°	1'-9"	3'-0"
45°	1'-9"	3'-6"
90°	2'-3"	4'-6"
8" LINE		
22 1/2°	2'-0"	4'-0"
45°	2'-6"	4'-6"
90°	3'-0"	6'-0"

NOTES FOR VERT. BENDS

WIDTH OF BLOCK IS TRENCH WIDTH.

FOR UPWARD VERTICAL BENDS, USE EQUIVALENT HORIZONTAL THRUST BLOCK.

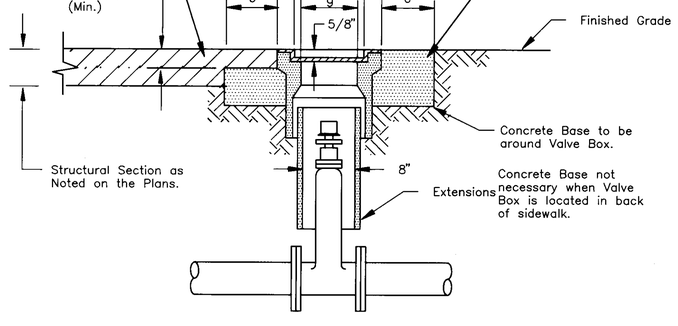
THRUST BLOCK DIMENSIONS		
FITTINGS	"A"	"B"
6" LINE		
22 1/2°	1'-6"	1'-6"
45°	2'-0"	2'-0"
90°	3'-0"	2'-6"
TEE OUTLET	3'-0"	2'-0"
DEAD END	3'-0"	2'-0"
8" LINE		
22 1/2°	2'-0"	2'-0"
45°	3'-0"	2'-6"
90°	4'-0"	3'-6"
TEE OUTLET	3'-6"	3'-0"
DEAD END	3'-6"	3'-0"

NOTES:

1. All thrust blocks shall be placed against undisturbed soil and shall be Class "B" Concrete.
2. Thrust block dimensions are based on an allowable soil bearing pressure of 1,000 pounds per square foot.

THRUST BLOCK DETAIL

5 / 17



NOTES:

1. Valve box and Lid shall be Christy No. G 5, Brooks No. IRT or 4-TT, or equal.
2. All Lids and Grade Rings shall have machined seating surfaces.
3. Extensions shall be as manufactured for the Valve Box supplied or Pipe of correct size can be used.

VALVE BOX DETAIL

4 / 17

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J. C. WHITE	10/23/89	Dean DeGuzman	7/17/90			Manuel Alonso	7/19/90		7/19/90

FILE NAME	DRAWER	SHEET NO.	ACAD 10
			\CLEMENT\SHEET17

COUNTY OF SAN JOAQUIN

SCALE: NONE

CONSTRUCTION DETAILS

PROJECT: CLEMENTS WATER SYSTEM PHASE I

SHEET NO.	TOTAL SHEETS
17	18

BRIDGE FILE INDEX NO.

84-392

SEE SHT. 11 FOR PLAN VIEW

SEE SHT. 8 FOR PLAN VIEW

P.U.E. (4th ST. TO HWY. 88)

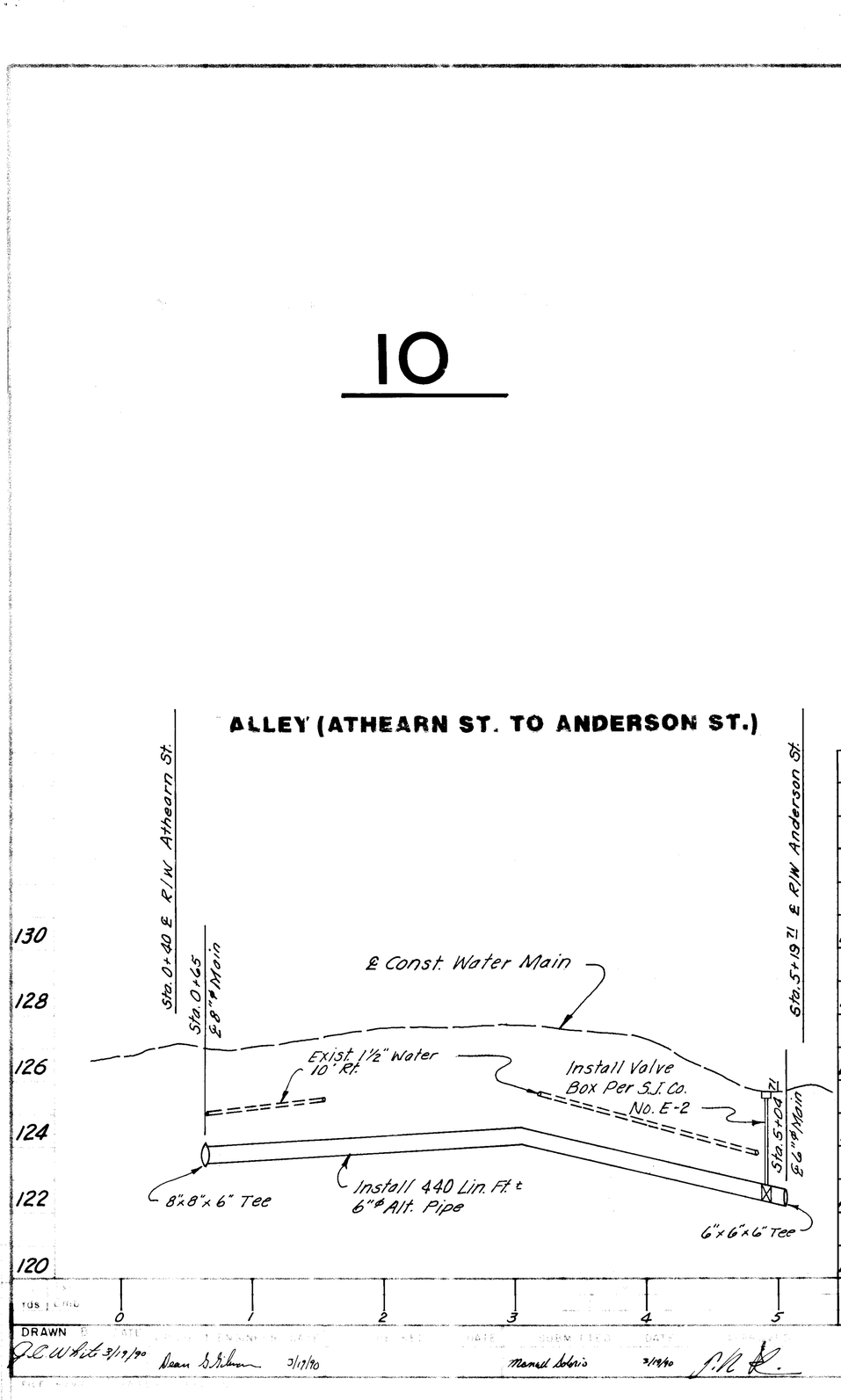
HIGHWAY CROSSING AT ANDERSON ST.

DRAWN BY	DATE	ENGINEER	DATE	SUBMITTED	DATE	APPROVED	DATE		PLAN SCALE	PROFILE SCALE		PROJECT		SHEET	OF
J. C. White	3/13/90	Dean G. Gilman	3/13/90	Manuel Solorio	3/14/90	[signature]	3/19/90	COUNTY OF SAN JOAQUIN		HORIZONTAL 1" = 50' VERTICAL 1" = 2'		CLEMENT WATER SYSTEM PHASE 1		16	18

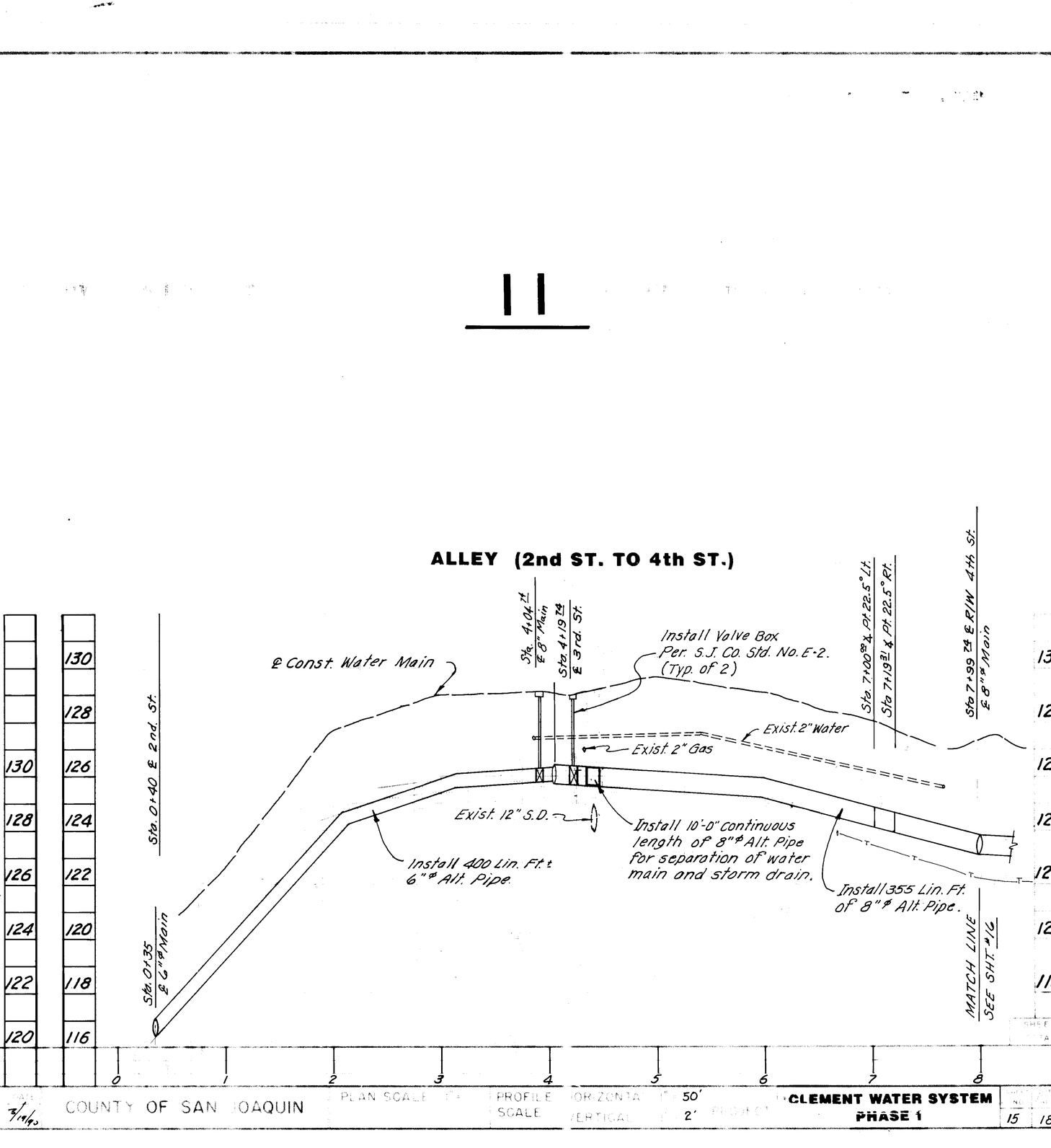
10

11

ALLEY (ATHEARN ST. TO ANDERSON ST.)



ALLEY (2nd ST. TO 4th ST.)



SU2394

DRAWN	CHECKED	DESIGNED	TRACED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.C. White 3/19/90	Dean DeNichola 3/19/90				Manuel Sobrio	3/19/90	J.M.K.	3/19/90

COUNTY OF SAN JOAQUIN

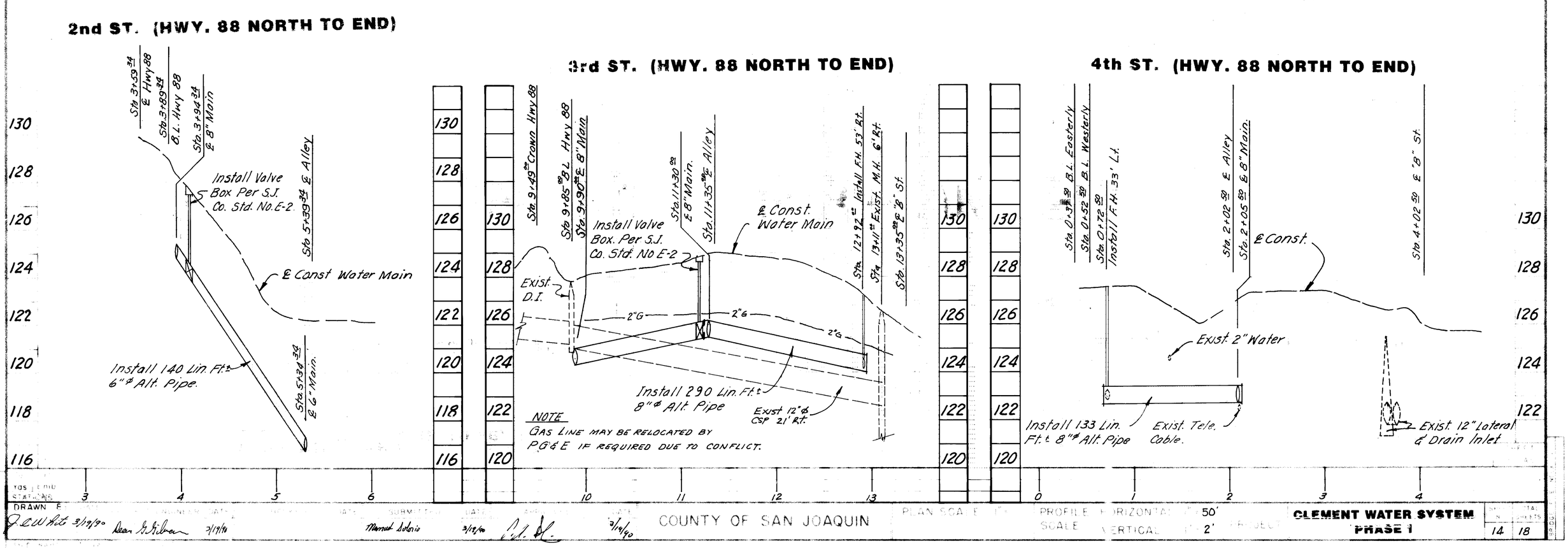
PLAN SCALE —

PROFILE SCALE HORIZONTAL 50' VERTICAL 2'

CLEMENT WATER SYSTEM PHASE 1

SHEET NO. 15 TOTAL SHEETS 18

SEE SHT. 11 FOR PLAN VIEW

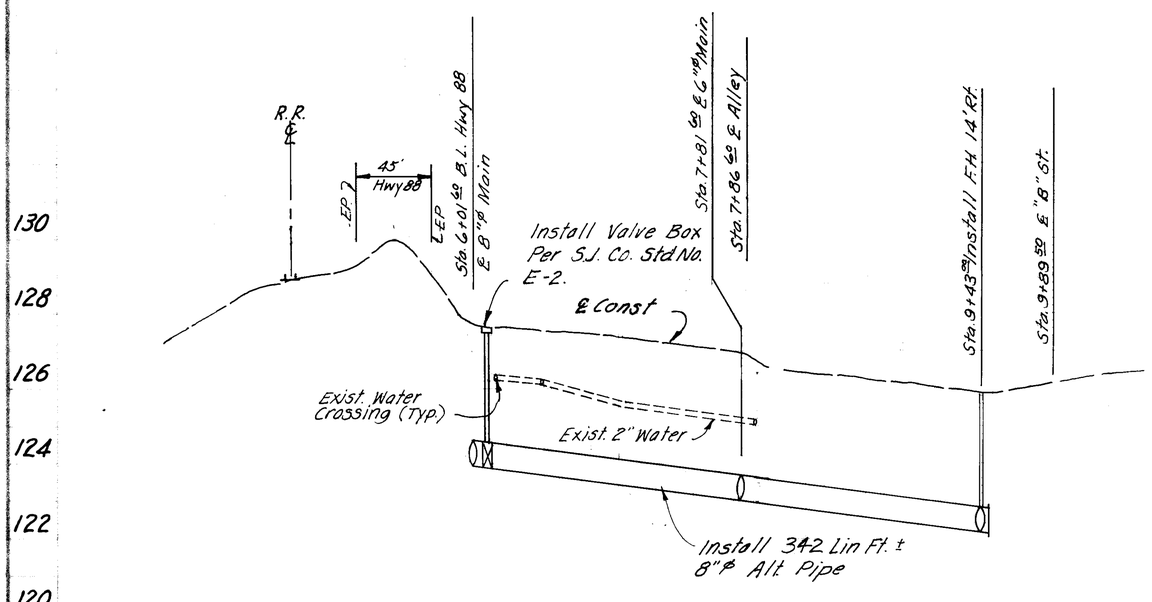


SU 2395

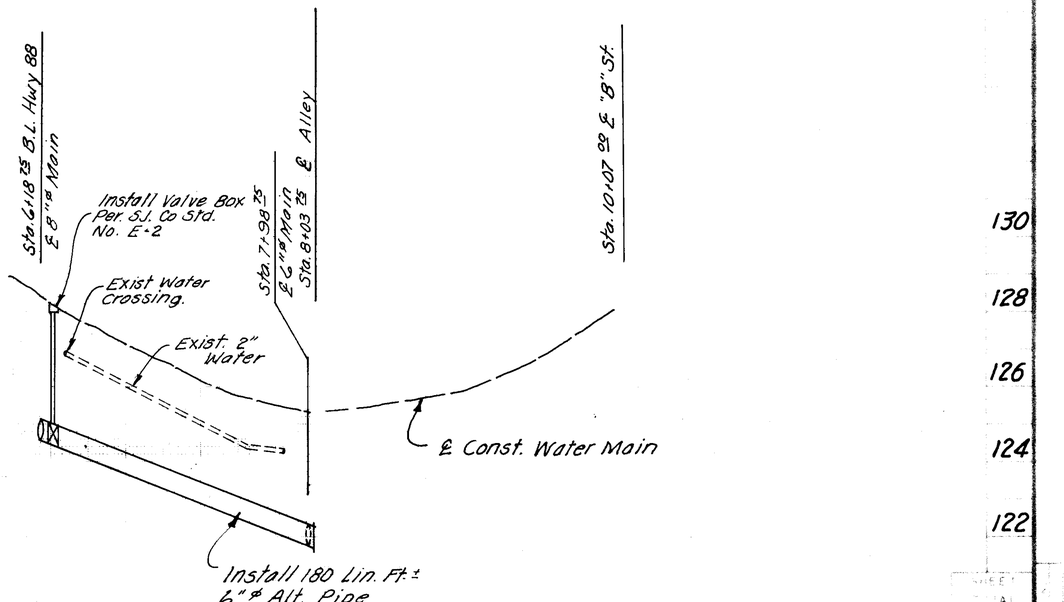
DRAWN J.C.W. Artz 3/19/90 | ENGINEER Dean G. Wilson 3/19/90 | SURVEYED Manuel Solorio 3/12/90 | DESIGNED [illegible] 3/19/90 | COUNTY OF SAN JOAQUIN | PLAN SCALE 1" = | PROFILE HORIZONTAL SCALE 1" = 50' VERTICAL 1" = 2' | CLEMENT WATER SYSTEM PHASE 1 | SHEET NO. 14 | TOTAL SHEETS 18

SEE SHT. 10 FOR PLAN VIEW

ATHEARN ST. (HWY. 88 TO "B" ST.)



ANDERSON ST. (HWY. 88 TO "B" ST.)



SU 2396

DRAWN	ENGINEER	DATE	CHK	DATE	SUBMITTED	DATE	APPROVED	DATE
R.C. White	Dean Schulman	3/19/90			Manuel Solorio	3/19/90		3/19/90

COUNTY OF SAN JOAQUIN

PLAN SCALE 1" =

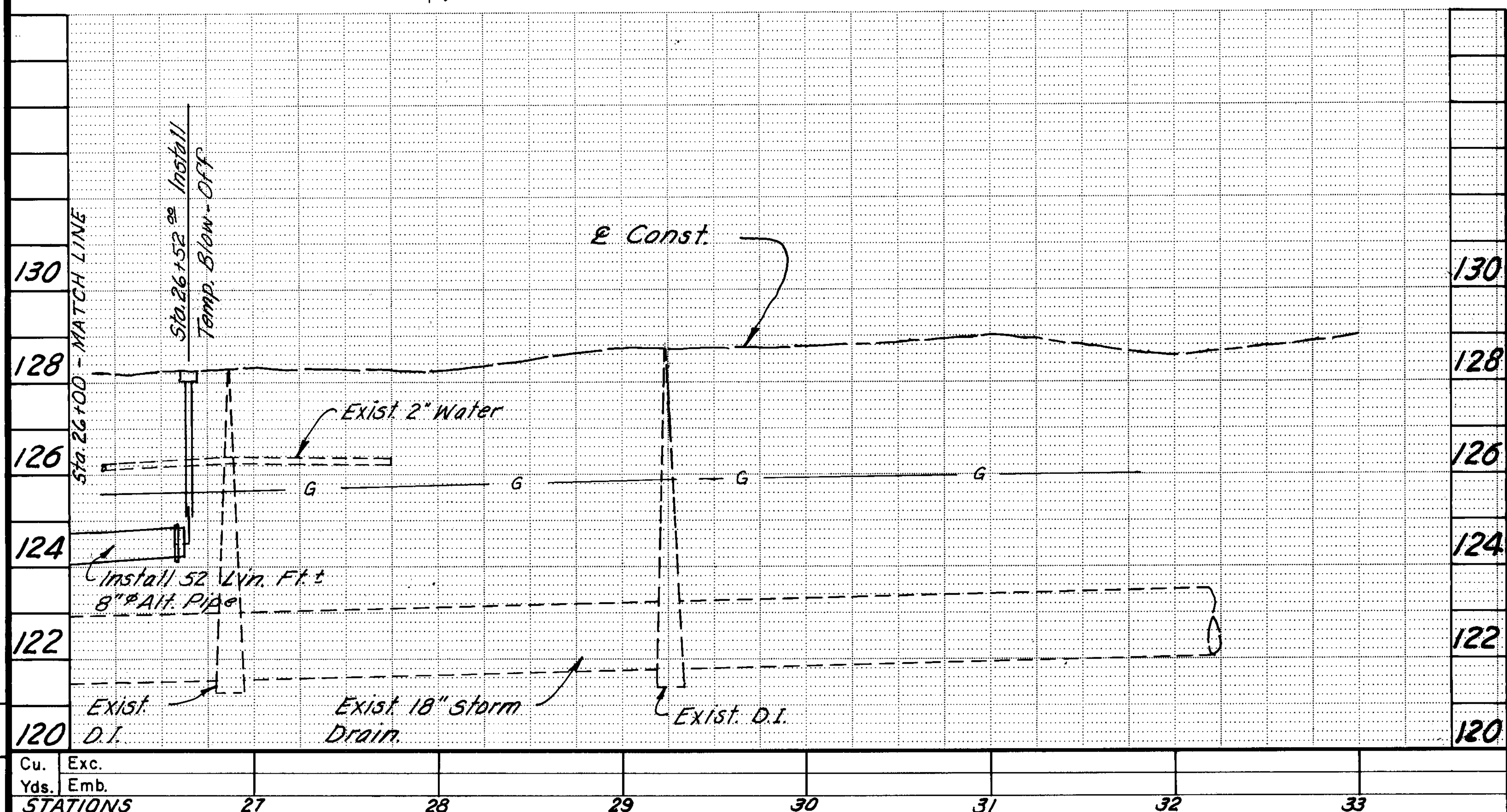
PROFILE HORIZONTAL SCALE 1" = 50'

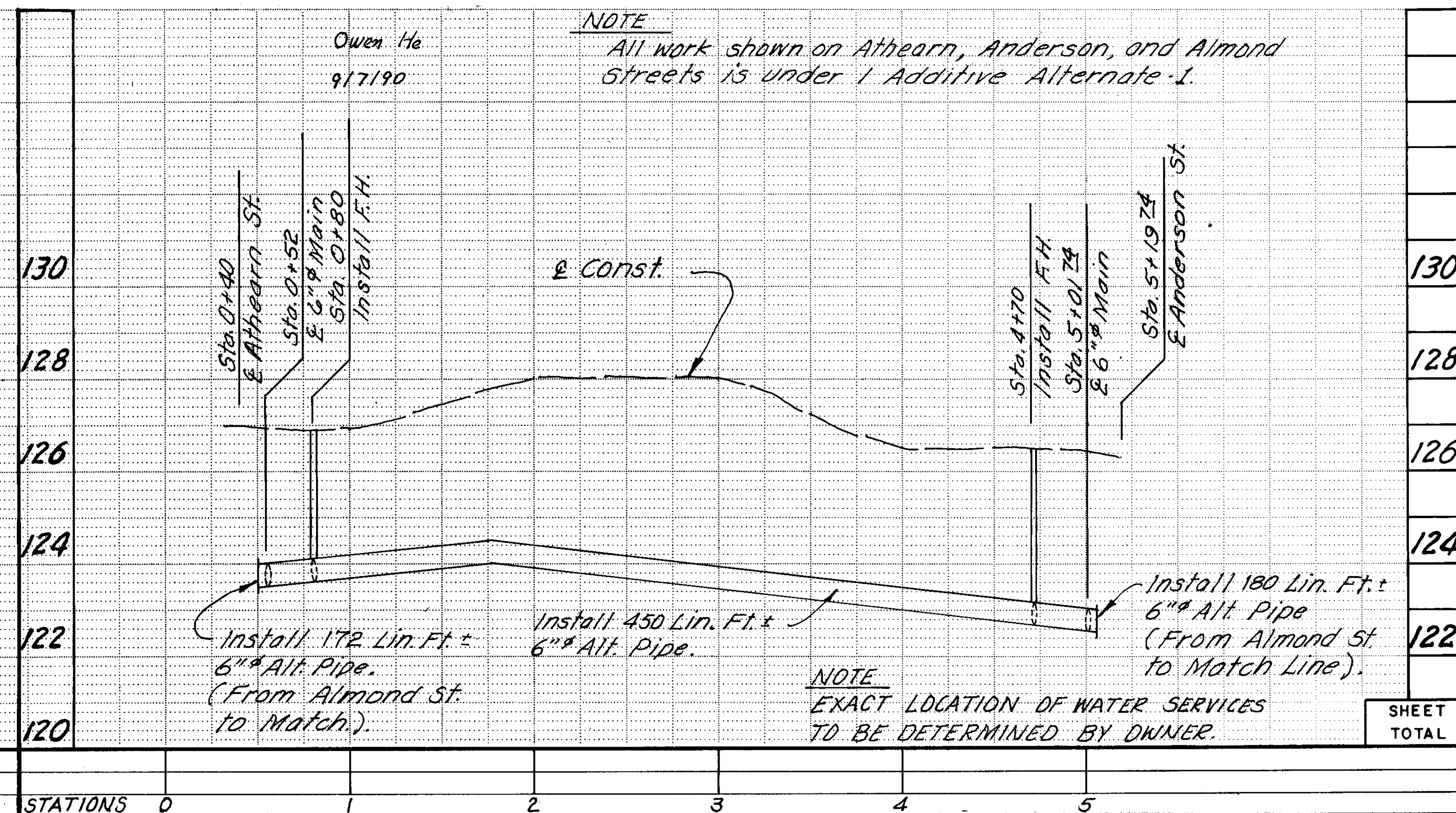
VERTICAL 1" = 2'

PROJECT **CLEMENT WATER SYSTEM PHASE 1**

SHEET NO. 13 OF SHEETS 18

116742





SHEET TOTAL

SJC 2397

REVISION	DATE
Added Page Lines	9/20/90

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.B. White	3/19/90	Dean G. Gibson	3/19/90			Manuel Solorio	3/19/90	[signature]	3/19/90

COUNTY OF SAN JOAQUIN

PLAN SCALE 1" = 50'

PROFILE SCALE HORIZONTAL 1" = 50' VERTICAL 1" = 2'

PROJECT **CLEMENTS WATER SYSTEM PHASE I**

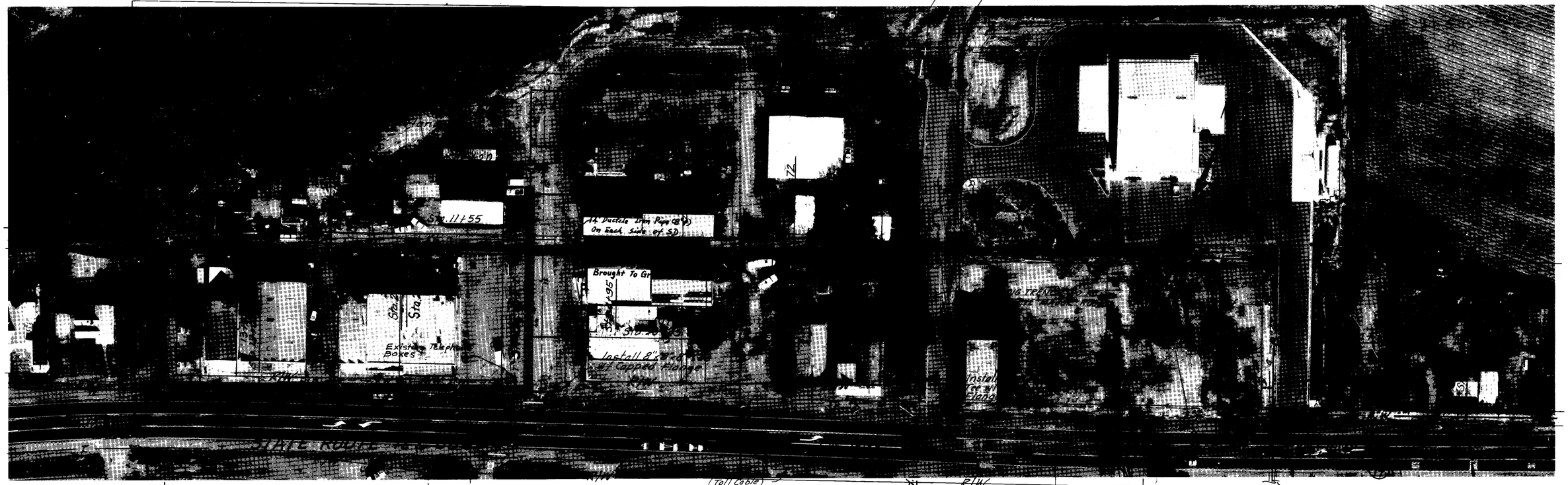
SHEET NO	TOTAL SHEETS
12	18

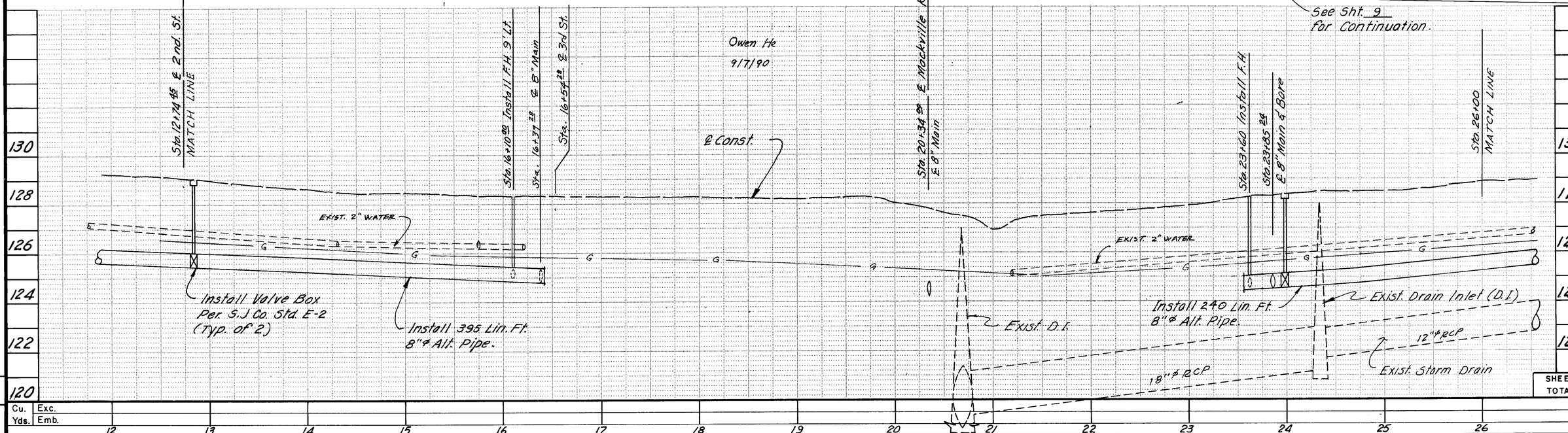
BRIDGE FILE INDEX NO.

FILE NAME	DRAWER	SHEET NO

HWY. REF.: 10, S.J., 88, P.M. 17.6 - 18.2

116742





SU2398

REVISION	DATE
Added Prop. Lines	3/30/90

Cu.	Exc.	SHEET TOTAL
Yds.	Emb.	

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.Rivitt	3/19/90	Dean G. Gibson	3/19/90			Manuel Dutra	3/19/90		3/19/90

FILE NAME	DRAWER	SHEET NO

COUNTY OF SAN JOAQUIN

PLAN SCALE 1" = 50'

PROFILE SCALE HORIZONTAL 1" = 50' VERTICAL 1" = 2'

PROJECT **CLEMENTS WATER SYSTEM PHASE I**

SHEET NO	TOTAL SHEETS
11	18

BRIDGE FILE INDEX NO.

HWY. REF.: 10, S.J., 88, P.M. 17.6-18.2

116742

Cu. Yds. Exc. / Emb.

SHEET TOTAL

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE						
J.C. White	3/19/90	Dean G. Gilman	7/17/90			Manuel Solorio	8/2/90	[signature]	3/14/90	COUNTY OF SAN JOAQUIN	PLAN SCALE 1" = 50'	PROFILE SCALE HORIZONTAL 1" = 50' VERTICAL 1" = 2'	PROJECT	CLEMENTS WATER SYSTEM PHASE I	SHEET NO 10 TOTAL SHEETS 18

FILE NAME	DRAWER	SHEET NO

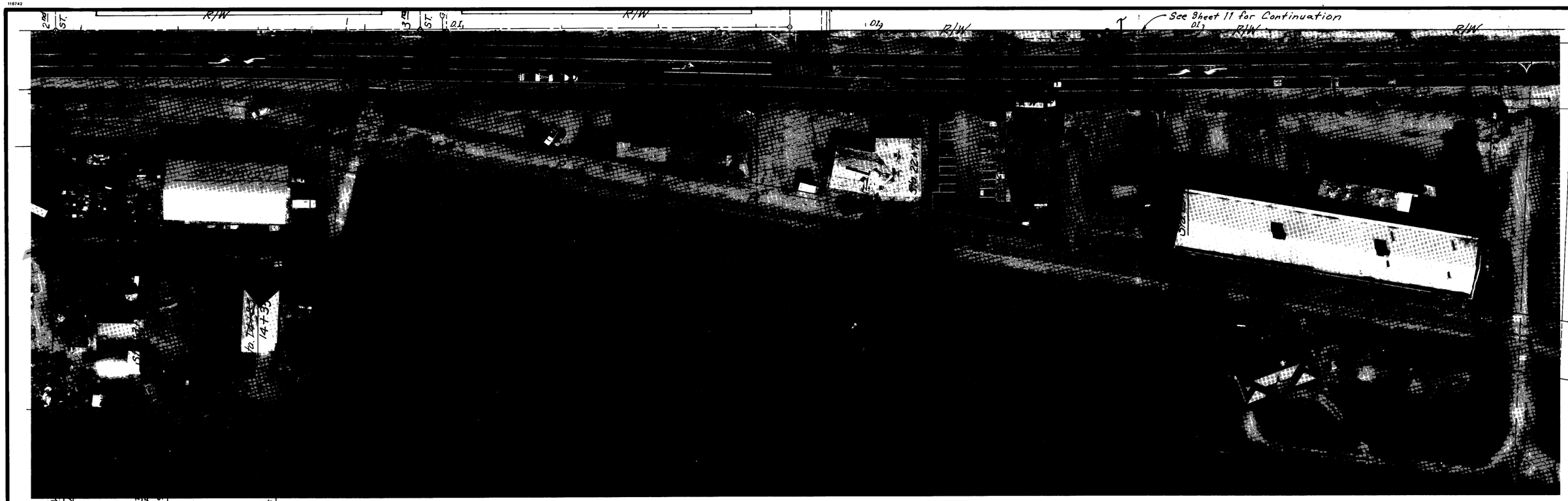
REVISION: Added Prop. Lines — DATE 5/30/90

SC 2399

BRIDGE FILE INDEX NO.

HWY. REF.: 10, S.J., 88, P.M. 17.6-18.2

116742



SCL2400

REVISION	DATE
Added Prop. Lines	3/19/90

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
D. Gill Lee	3/12/90	Dean M. Kilman	3/17/90			Manuel Solorio	3/19/90		3/19/90

FILE NAME	DRAWER	SHEET NO

COUNTY OF SAN JOAQUIN

PLAN SCALE 1" = 50'

PROFILE SCALE HORIZONTAL 1" = 50' VERTICAL 1" = 2'

PROJECT **CLEMENTS WATER SYSTEM PHASE I**

SHEET NO	TOTAL SHEETS
9	18

SHEET TOTAL

BRIDGE FILE INDEX NO.

HWY. REF.: 10, S.J., 88, P.M. 17.6 - 18.2

116742

NOTE:
Provide 6" min. clearance between water main and all gas mains.

ADDITIVE ALTERNATE-1
Install 189 Lin. Ft.± 6"ø Alt. Pipe from Walnut St. to Match Line.

Sta. 0+40 ℄ Atheern St.

Sta. 0+52 ℄ 6"ø Main

Sta. 0+75 Install (1) F.H. 21' Rt.

ADDITIVE ALTERNATE-1
Install 415 Lin. Ft.± 8"ø Alt. Pipe.

Install 21'-0" continuous length of 8"ø Alt. Pipe for separation of water main and storm drain.

Sta. 4+67 Install (1) F.H. 21' Rt.

Sta. 5+01.29 ℄ 6"ø Main (Additive Alternate 1)

Sta. 5+19.29 ℄ Anderson St.

ADDITIVE ALTERNATE-1
Install 211 Lin. Ft.± 6"ø Alt. Pipe from Walnut St. to Match Line.

Sta. 5+59.27 ℄ 8"ø Main Offset

33 Lin. Ft.± 8"ø Alt. Pipe

Sta. 6+37.80
4 Pt. 16°26'14" Rt.

Exist 10" X-Or

Exist 2" Gas

Exist 2" Water

Install 33 Lin. Ft.± 8"ø Alt. Pipe (Main Offset)

Install 72 Lin. Ft.± 8"ø Alt. Pipe

STA. 8+46, 23' Rt.
Install Air Relief Valve w/Housing Assembly. See Detail 3/18

Sta. 9+25 Install F.H.

Min. depth of cover of saddle tap connection equal 5'.

℄ Const. & Baseline

Sta. 11+ 9.15 ℄ 8"ø Main

Sta. 11+80.12 ℄ Pt. 12°55' Lt.

Sta. 12+15.20 ℄ Pt. 12°55' Rt.

Sta. 12+24.9 ℄ 2nd St.

Sta. 12+34.15 ℄ 6" Main (Future)

STA. 14+00 MATCH LINE SEE SHT. # 9

Install 842 Lin. Ft.± 8"ø Alt. Pipe.

Exist. 2" Gas

Install 8"x8"x6" Tee w/Capped Flange

Exist 2" Water

Install Valve Boxes per S.J.Co. Std. E-2. (Typ. of 6)

152 148 144 140 136 132 128 124

Cu. Exc.
Yds. Emb.

STATIONS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

SHEET TOTAL

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.C. White	3/12/90	Dean G. Wilson	3/19/90			Manuel Schmidt	3/19/90		3/19/90

COUNTY OF SAN JOAQUIN

PLAN SCALE 1" = 50'

PROFILE SCALE HORIZONTAL 1" = 50' VERTICAL 1" = 4'

PROJECT

CLEMENTS WATER SYSTEM PHASE I

SHEET NO	TOTAL SHEETS
8	18

BRIDGE FILE INDEX NO.

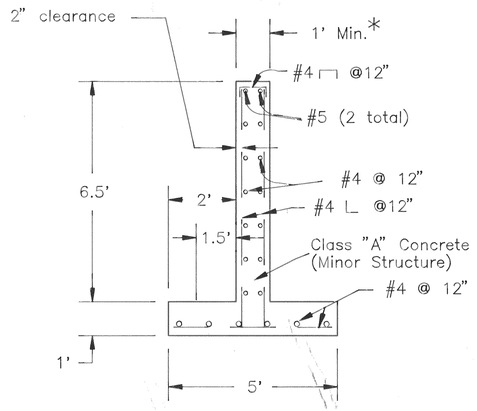
FILE NAME	DRAWER	SHEET NO

SW 2401

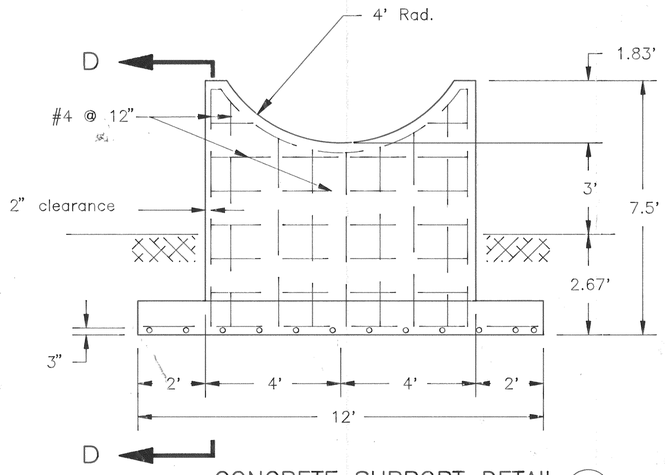
REVISION: Added Prop. Lines — DATE: 5/10/90

HWY. REF.: 10, S.J., 88, P.m. 17.6 - 18.2

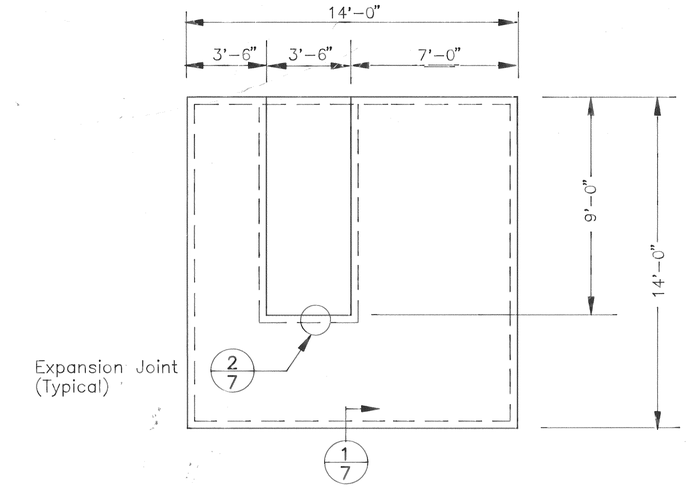
* OR AS SPECIFIED BY THE TANK MANUFACTURER FOR MINIMUM BEARING AREA.



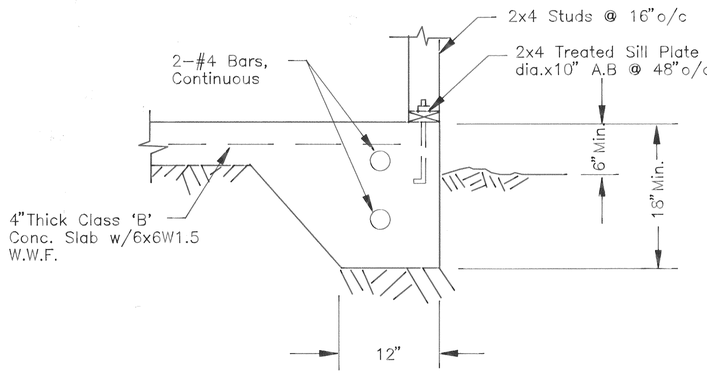
SECTION D–D



CONCRETE SUPPORT DETAIL (A/7)

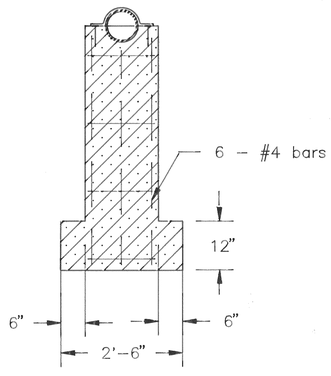


PUMPHOUSE FOUNDATION PLAN

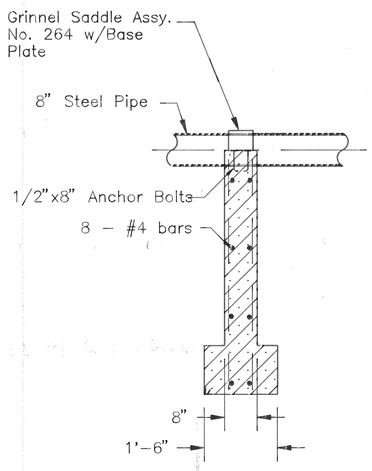


SECTION (1/7)

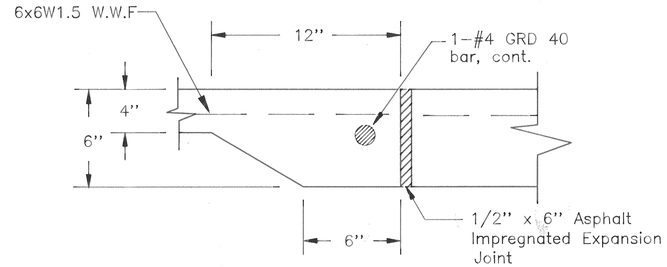
PIPE SUPPORT DETAIL (B/7)



SECTION B – B



SECTION C – C

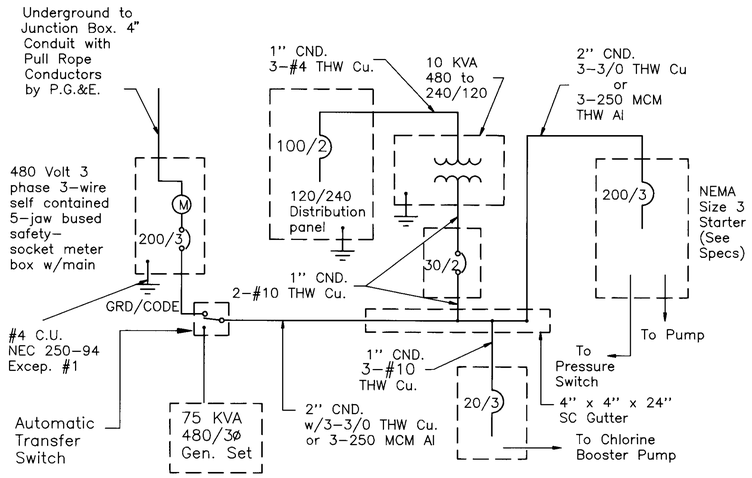


DETAIL (2/7)

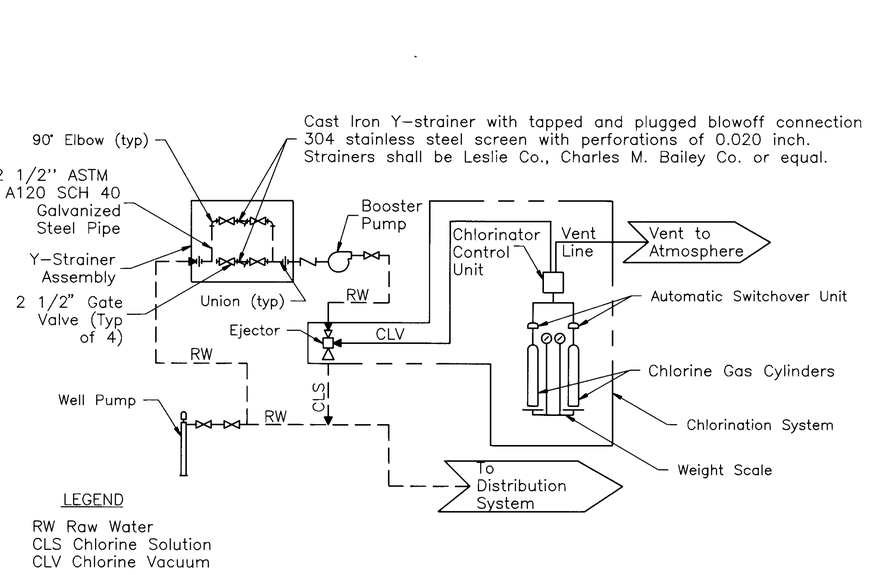
REVISIONS	DATE

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE	COUNTY OF SAN JOAQUIN	SCALE: NONE	FOUNDATION PLAN & CONCRETE DETAILS	PROJECT	CLEMENTS WATER SYSTEM Phase 1	SHEET NO.	TOTAL SHEETS	BRIDGE FILE INDEX NO.
J C WHITE	6/20/89	Dean A. Wilson	7/11/89			Manuel Silveira	3/19/90		3/19/90						7	18	
FILE NAME	DRAWER	SHEET NO.	ACAD														
			\CLEMENT\SHEET8														

SJ 2980-2



ONE – LINE DIAGRAM

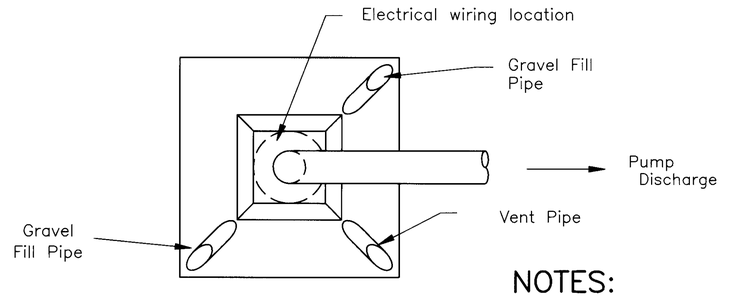


CHLORINATION SYSTEM SCHEMATIC

OWEN HE
12-10-90

NOTES

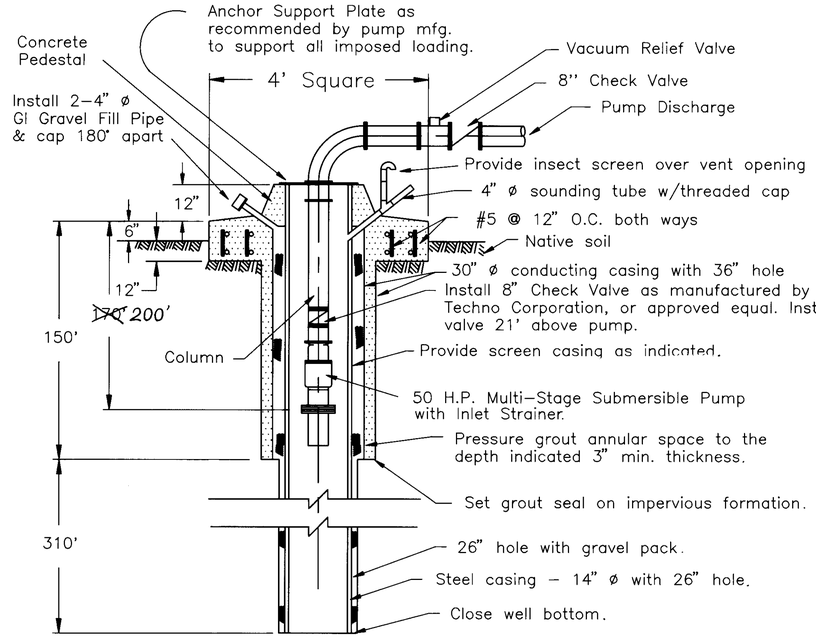
1. Chlorination system shall be Pennwalt Corp, Wallace and Teirnan Division. Control unit package V–100A and automatic switchover package V100C. System shall be installed as per mfgr's reccommendations.
2. Weight scale shall be Pennwalt Corporation, Wallace and Teirnan Division, Series 50–345 two–cylinder scale.
3. At each installation, mount chlorinator to scale head.
4. Valve shall be Chemtrol TFU Block TU Series. Asashi America Duo Block TU Series, GSR TU Series, or equal, with teflon seats and Viton o–rings.
5. All chlorine solution piping shall be PVC: ASTM D1784, Class 12454–B, NSF Certified , ASTM D1785, SCH 80.
   Connections: Plain end and solvent welds
   Fittings: PVC, SCH 80, solvent welds



PUMP BASE (TOP VIEW)

NOTES:

1. Gravel pack shall be selected to provide good control of fine sand.
2. The well screen shall be Roscoe Moss Standard or approved equal.



WELL PUMP DETAIL

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J C WHITE	6/19/90	Glenn B. Gibson				Manuel Lopez	3/13/90		3/13/90

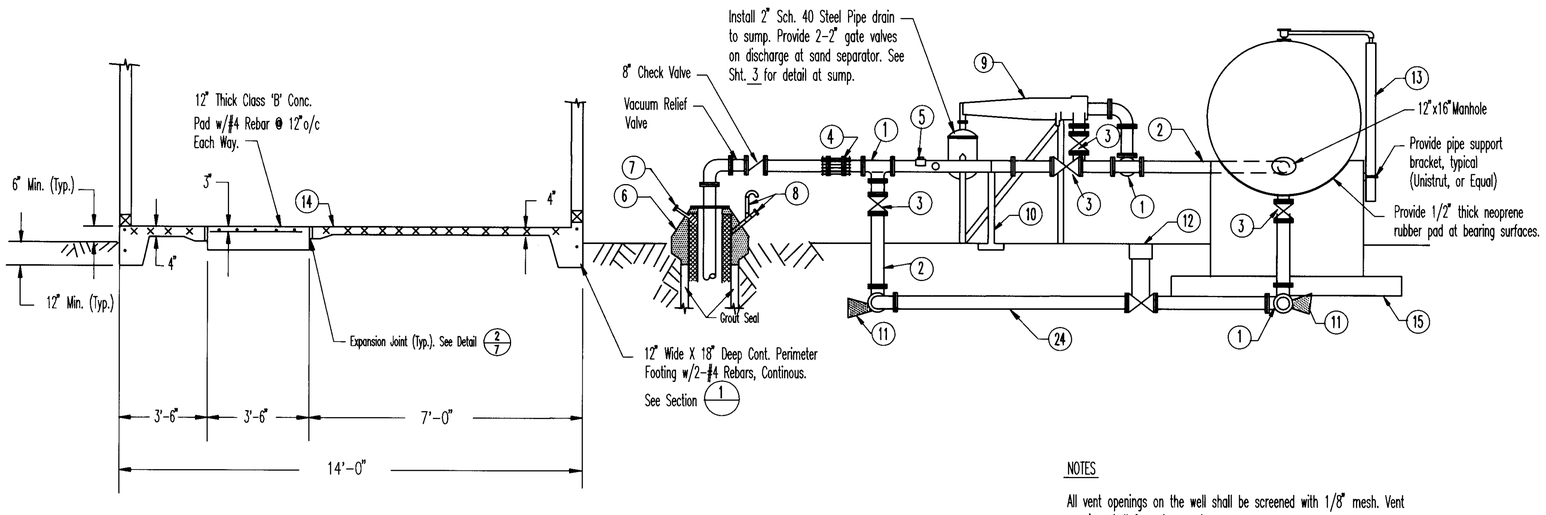
FILE NAME	DRAWER	SHEET NO.	ACAD
			\CLEMENT\SHEET7

COUNTY OF SAN JOAQUIN	SCALE: NONE	WELL DETAIL & SCHEMATICS	PROJECT	CLEMENTS WATER SYSTEM PHASE 1	SHEET NO.	TOTAL SHEETS
					6	18

REVISIONS DATE

BRIDGE FILE INDEX NO.

SLU 2403



SECTION B-B

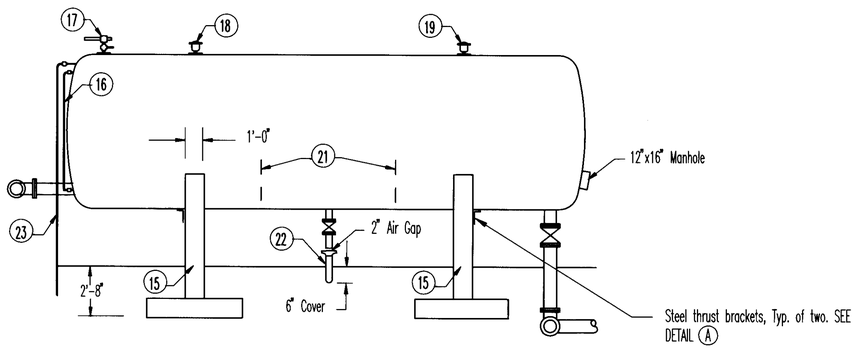
NOTES

All vent openings on the well shall be screened with 1/8" mesh. Vent opening shall face downward.

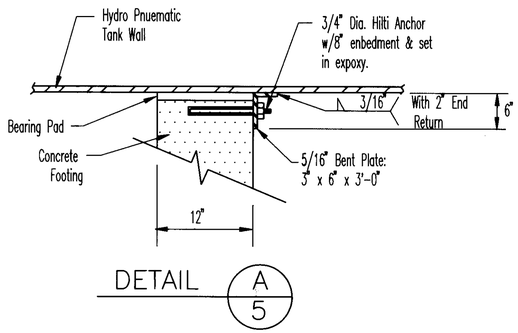
Pump Head and Pedestal shall be constructed with water-tight seals.

LEGEND

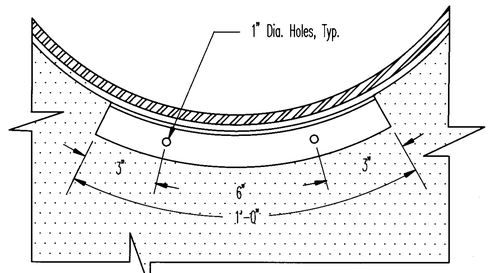
1. 8" X 8" X 8" Tee
2. 8" Sch. 40 Steel Pipe. (Typical @ risers and above ground).
3. 8" Gate Valve w/hand wheel
4. Dresser Coupling
5. 8" Saddle Clamp Meter
6. 4'-0" Square Class 'B' Concrete Pump Column Support.
7. 4"dia. Gravel fill pipe w/threaded cap. Provide 2 mounted at 180 degrees on well casing.
8. 4"dia. Well vent and sounding tube. Provide 1/8" mesh vent and threaded cap.
9. Desander, Krebbs Model No.W150 or Equal, 550 GPM Capacity, Minimum.
10. Concrete Pipe Support Assy. See Sht. 7 for details.
11. Install thrust blocks per San Joaquin Co. Std. No.E-3.
12. Install valve box per San Joaquin Co. Std. No.E-2.
13. 2"dia. PVC Muffler on Air Vent Line.
14. 4" Thick Class 'B' Concrete Slab w/6x6W1.5 W.W.F. over 6" Native Soil Compacted to 90% Relative Compaction.
15. Class 'B' Concrete Tank Support Structure. See Sht. 7 for Details.
16. 5/8" Brass Water Gauge, Crane No.610 w/36" centers, complete w/2 Gate Valves and PVC guard over plastic sight tube. Provide 1/2" drain cock at bottom.
17. 3/4" Conduit to Pressure Switch and Gauge in Pumphouse.
18. 3/4" Air Vent, Apco No.144 W.D. Extend 3/4" pipe to low water level. Extend discharge line to 12" above grade. Provide 2" PVC muffler as shown.
19. 2" Pressure Relief Valve, Bailey No.118. Extend pipe 2" below low water level. Terminate 2" discharge pipe at 12" above grade.
20. 10,000 gallon hydro-pnuematic tank (8'-0"diameter X 24'-0"±).
21. 3/8" Steel baffle plates welded to tank with 1"dia. hole at base.
22. 4"dia. drain line w/4"dia. Gate Valve. Run pipe to drainage sump. (Sch. 40 Steel)
23. 1/2" Air Line to 2 H.P. Compressor in Pumphouse
24. 8"dia. Bypass line (Alt. Pipe)



LT. SIDE ELEVATION



DETAIL A/5



END VIEW

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.C. WHITE	6/7/89	Dean S. Gilchrist	3/19/90			Manuel Solorio	3/19/90		3/19/90

FILE NAME	DRAWER	SHEET NO.	ACAD
			\CLEMENT\SHEET 6

COUNTY OF SAN JOAQUIN

SCALE: NONE

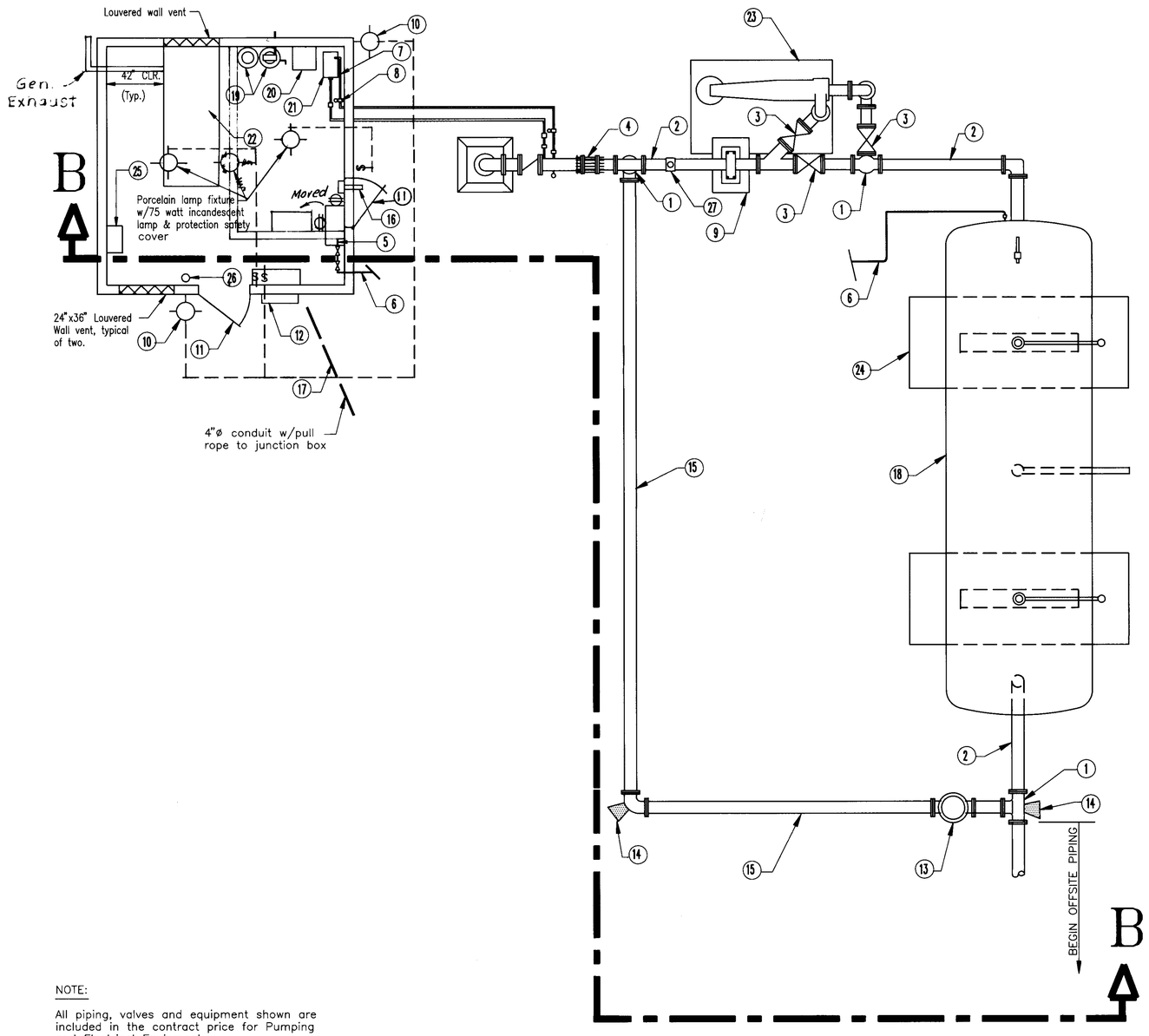
PUMPHOUSE AND EQUIPMENT DETAILS

PROJECT: CLEMENTS WATER SYSTEM Phase 1

SHEET NO.	TOTAL SHEETS
5	18

REVISIONS | DATE

BRIDGE FILE INDEX NO.



PLAN

LEGEND

1. 8"X 8"X 8" Tee
2. 8" Sch. 40 Steel Pipe
3. 8" Gate Valve w/hand wheel
4. Dresser Coupling
5. 2 H.P. air compressor, Campbell Housefeld No.HL7001, mounted on wood shelf 30" above floor. Provide duplex receptacle at 40" above floor for power.
6. 1/2" pipe w/18" cover from air compressor to pressure tank. Provide two 1/2" dia. check valves at compressor.
7. 2" Sch. 80 PVC Chlorine Injection Piping.
8. Upright Tee w/pressure gauge, Ashcroft No.1000, or equal.
9. Concrete pipe support structure w/Grinnel Saddle Assy. No.264, complete w/base plate.
10. Vandal resistant fixture w/polycarbonate lens and 100 watt incandescent lamp.
11. 3'-0"x 6'-8" Vandal proof steel door and jamb. Provide one heavy duty case-hardened safety hasp bolted through door and frame.
12. Steel Vandal-Proof enclosure for self-contained breathing apparatus. Provide heavy duty case hardened safety hasp welded to door and frame.
13. Install Valve Box as per San Joaquin Co. Std. No.E-2.
14. Install Trust Blocks as per San Joaquin Co. Std. No.E-3.
15. 8"ø Bypass line (Alt. Pipe).
16. 3/4" PVC conduit from tank to pressure switch.
17. Main control panel and electrical service. Provide 4" dia. PVC conduit w/pull rope.
18. 10,000 gallon hydro pnuematic tank (8'-0" dia.x 24'long±).
19. Chlorine Scale Unit, Pennwalt No.50-345 with Control Unit No.V-100A and Automatic Switch Over Unit No.V-100C.
20. Booster Pump Control Panel.
21. Booster Pump, Sta-Rite Model No.JHE3-63, Code IJ81A, 1 H.P. (Mount 30" Above Floor)
22. Generator Set: Onan No. 80 DGDA. Provide 250 gallon, pad-mounted tank outside pumphouse with containment structure. Lable tank "DIESEL- INFLAMABLE".
23. 5'-0"x 7'-0"x 0'-6" Thick Concrete Pad w/6x6 W1.5 W.W.F.
24. Concrete Tank Support Structure. See Sht. 7 for Details.
25. Transfer Switch Panel.
26. 20 Pound Fire Extinguisher with A-B-C Rating.
27. 8" Saddle Clamp Meter

NOTE:

All piping, valves and equipment shown are included in the contract price for Pumping and Electrical Equipment.

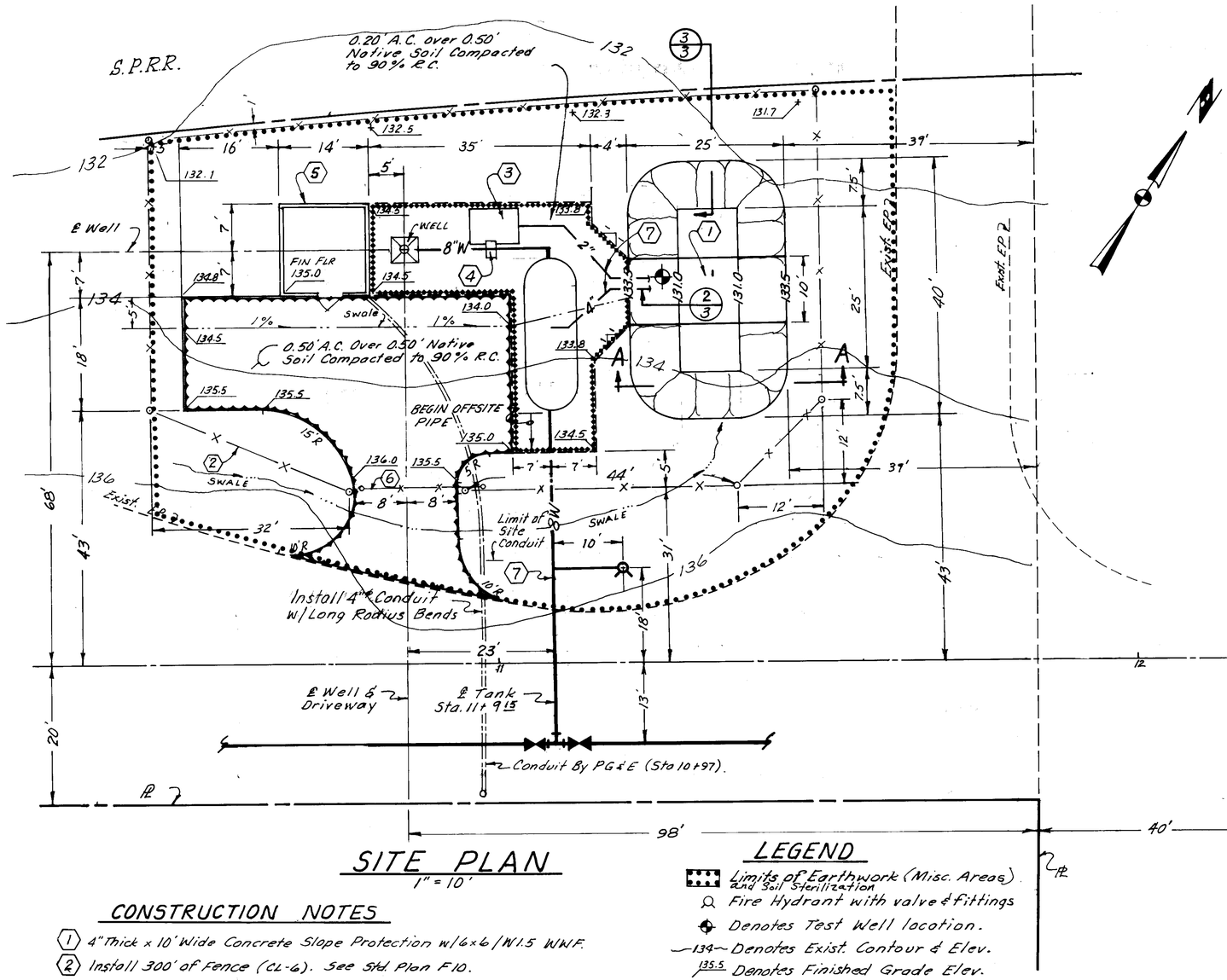
Dick Ling & Jim White
5/14/92

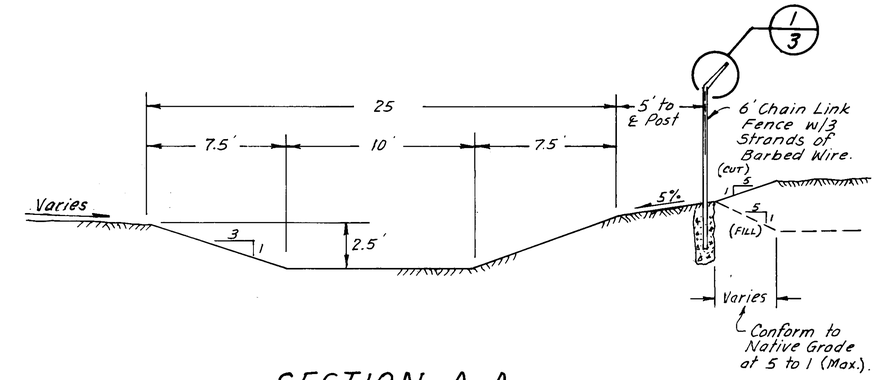
DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.C. WHITE	11/2/89								
J C White	9/19/90	Dean G Wilson	9/19/90			Merrill Schaad	3/1/90	J.M. Hall	3/11/90

FILE NAME	DRAWER	SHEET NO.	ACAD 10
			\JCW\SHEET1

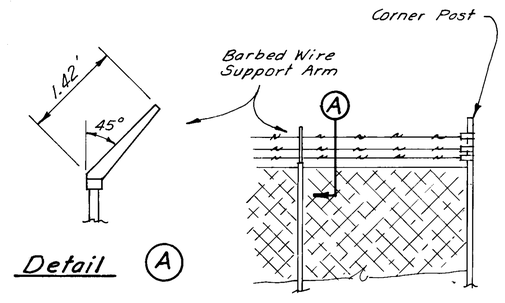
COUNTY OF SAN JOAQUIN	SCALE: NONE	PUMPHOUSE AND EQUIPMENT DETAILS	PROJECT	CLEMENTS WATER SYSTEM PHASE I	SHEET NO.	TOTAL SHEETS
					4	18

BRIDGE FILE INDEX NO.


S.P.R.R.
0.20' A.C. over 0.50' Native Soil Compacted to 90% R.C.
132
132.3
131.7
132.5
132.1
16'
14'
35'
4'
25'
39'
5'
7'
℄ Well
WELL
8"W
FIN FLR
135.0
134.8
134.5
134
Swale
1%
134.0
0.50' A.C. Over 0.50' Native Soil Compacted to 90% R.C.
133.8
135.5
BEGIN OFFSITE PIPE
135.0
15'R
136.0
SWALE
Exist.
32'
10'R
68'
43'
18'
Limit of Site Conduit
10'
31'
136
Install 4"ϕ Conduit W/Long Radius Bends
23'
℄ Well & Driveway
℄ Tank Sta. 11+91.5
13'
20'
Conduit By PG&E (Sta 10+97).
℄
98'
40'
133.5
131.0
Exist. EP 2
75'
25'
40'
10'
7.5'
12'
37'
44'
5'
12'
℄ 2nd. Street
Construction Baselines



SECTION A-A
1/8" = 1'-0"



Detail (A)

DETAIL (1/3)
NTS

SITE PLAN
1" = 10'

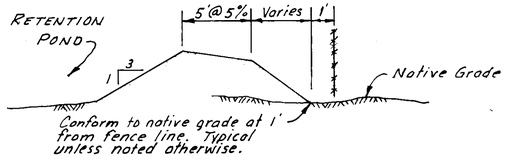
CONSTRUCTION NOTES

1. 4" Thick x 10' Wide Concrete Slope Protection w/6x6/W1.5 WWF.
2. Install 300' of Fence (CL-6). See Std. Plan F10.
3. Desander Pad 5'x 7'x 0'-6" Thick Concrete Pad w/6x6/W1.5 WWF.
4. Concrete Pipe Support Support Structure. See Sht. 7 for Details.
5. Slope Ground Away from Building at 5% for 5 feet then Conform to Adjacent Grade at 1' Inside of Fence Line Unless Shown Otherwise.
6. Install 16' Wide Sliding Chain-Link Gate. Provide Dbl. 6" Rubber Wheel @ Leading Edge and Pipe Guide Rail Along Fence.
7. Install 55 Lin. Ft. ± of 8" diameter Alt. Pipe (From Pressure Tank to Main).

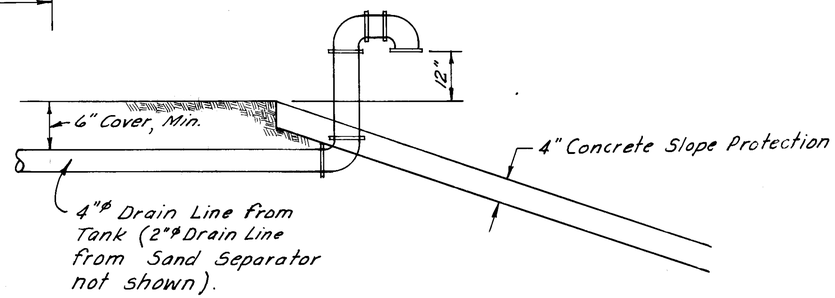
NOTE
Surplus exavated material may be disposed of upon the County property adjacent to the wellsite to the West. Surplus material to be disposed of on County property shall be spread uniformly and in accordance with Section 19 of the Standard Specifications.

LEGEND

- Limits of Earthwork (Misc. Areas) and Soil Sterilization
- Fire Hydrant with valve & fittings
- Denotes Test Well location.
- 134 Denotes Exist. Contour & Elev.
- 135.5 Denotes Finished Grade Elev.
- 0.20' A.C. over 0.50' Native Soil Compacted to 90% R.C.
- 0.50' A.C. over 0.50' Native Soil Compacted to 90% R.C.



DETAIL (3/3)
NTS



DETAIL (2/3)
NTS

DRAWN	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE
J.C.White	3/19/90	Dean R. Nicholas	3/19/90			Manuel Solair	3/19/90		3/21/90

COUNTY OF SAN JOAQUIN — PLAN SCALE 1" = 10' — SITE PLAN AND DETAILS — CLEMENTS WATER SYSTEM Phase - 1 — SHEETS 3 18

SW 2406

110742

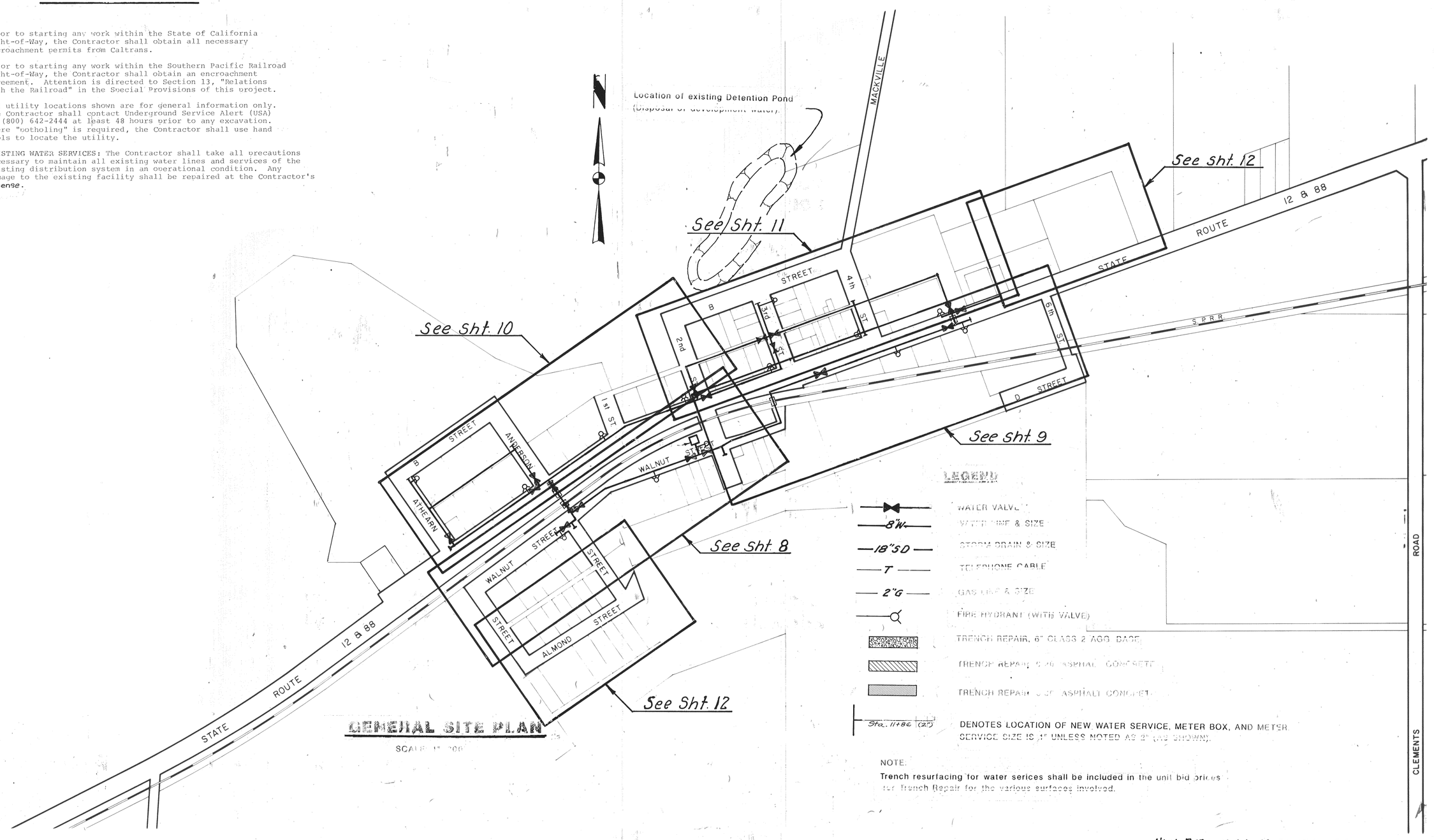
GENERAL NOTES

1. Prior to starting any work within the State of California Right-of-Way, the Contractor shall obtain all necessary encroachment permits from Caltrans.

2. Prior to starting any work within the Southern Pacific Railroad Right-of-Way, the Contractor shall obtain an encroachment agreement. Attention is directed to Section 13, "Relations with the Railroad" in the Special Provisions of this project.

3. All utility locations shown are for general information only. The Contractor shall contact Underground Service Alert (USA) at (800) 642-2444 at least 48 hours prior to any excavation. Where "potholing" is required, the Contractor shall use hand tools to locate the utility.

4. EXISTING WATER SERVICES: The Contractor shall take all precautions necessary to maintain all existing water lines and services of the existing distribution system in an operational condition. Any damage to the existing facility shall be repaired at the Contractor's expense.



GENERAL SITE PLAN

SCALE 1" = 200'

LEGEND

- WATER VALVE
- 8"W — WATER LINE & SIZE
- 18"SD — STORM DRAIN & SIZE
- T — TELEPHONE CABLE
- 2"G — GAS LINE & SIZE
- FIRE HYDRANT (WITH VALVE)
- TRENCH REPAIR, 6" CLASS 2 AGG. BASE
- TRENCH REPAIR, 2.0' ASPHALT CONCRETE
- TRENCH REPAIR, 3.0' ASPHALT CONCRETE
- Sta. 11+86 (2") — DENOTES LOCATION OF NEW WATER SERVICE, METER BOX, AND METER. SERVICE SIZE IS 1" UNLESS NOTED AS 2" (AS SHOWN).

NOTE:
Trench resurfacing for water serices shall be included in the unit bid prices for Trench Repair for the various surfaces involved.

HWY. REF.: 10, S.J., 88., P.M., 17.6 - 18.2

DRAWN BY	DATE	PROJECT ENGINEER	DATE	CHECKED	DATE	SUBMITTED	DATE	APPROVED	DATE	COUNTY OF SAN JOAQUIN	PLAN SCALE 1"=	GENERAL LAYOUT PLAN & NOTES	PROJECT	CLEMENT WATER SYSTEM PHASE 1	SHEET NO	TOTAL SHEETS
JCWhite	3/19/90	Dean Gilbreath	3/19/90			Marvell Schrio	3/19/90		3/19/90						2	18

FILE NAME	DRAWER	SHEET NO
	4	

REVISION DATE

BRIDGE FILE INDEX NO.

Sht 2407

COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

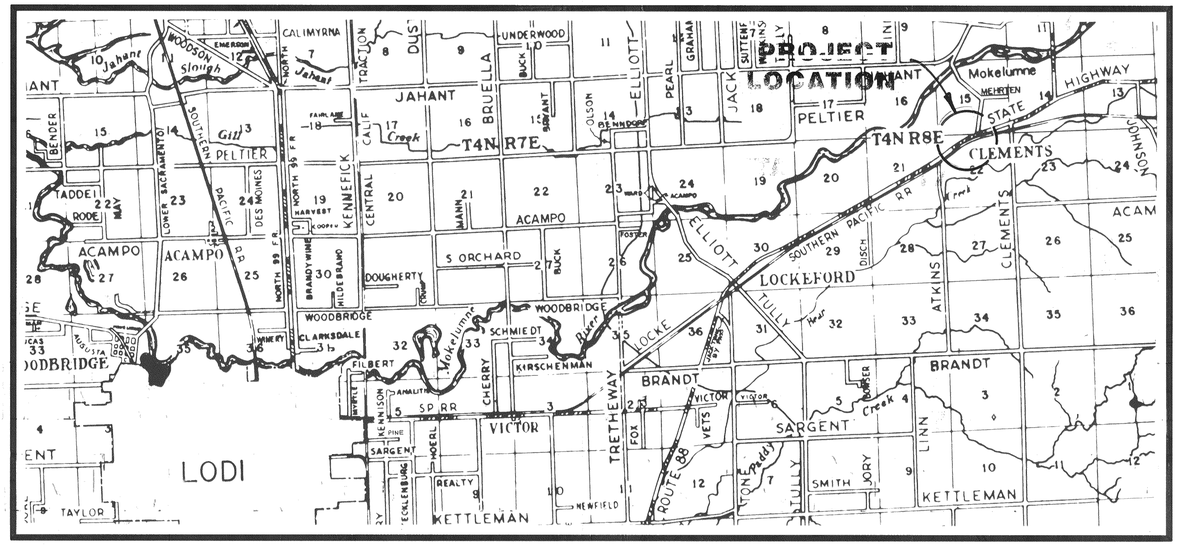
STOCKTON, CALIFORNIA

PROJECT PLANS FOR

CLEMENTS WATER SYSTEM PHASE 1

TO BE SUPPLEMENTED BY STANDARD PLAN DATED JANUARY 1988

INDEX OF SHEETS



PROJECT LOCATION MAP

0 1 2 3

SCALE IN MILES

COUNTY OF SAN JOAQUIN

Submitted March 19, 1990

Henry M. Hirata

HENRY M. HIRATA
R.C.E. 21258
Director of Public Works

ABBREVIATIONS

A.B.	=	Aggregate Base
A.C.	=	Asphalt Concrete
A.C.P.	=	Asbestos Cement
Alt.	=	Alternative
A.S.	=	Aggregate Subbase
Bit. Cd.	=	Bituminous Coated
C/L	=	Center Line
C.P.	=	Concrete Pipe
C.S.P.	=	Corrugated Steel Pipe
C.S.P.A.	=	Corrugated Steel Pipe Arch
D.I.	=	Drain Inlet
Dr.	=	Driveway
E.P.	=	Edge of Pavement
N.R.C.P.	=	Non-Reinforced Concrete Pipe
F/L	=	Flow Line
L.F.	=	Linear Feet
M.H.	=	Manhole
O.G.	=	Original Ground
P.C.C.	=	Portland Cement Concrete
Pen. Tr.	=	Pentration Treatment
P/L	=	Property Line
P.M.S.	=	Plant Mixed Surfacing
R.C.P.	=	Reinforced Concrete Pipe
R & D	=	Remove and Dispose
R & S	=	Remove and Salvage
R/W	=	Right of Way
S-Dr.	=	Side Drain
X-Dr.	=	Cross Drain
W.W.	=	Walkway
S.P.	=	Standard Plans

SE 2408

REVISIONS	NO.	DESCRIPTION	DRWN BY	CHKD BY	APP BY	DATE

PROJECT ENGINEER	DATE	SENIOR ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
Sean D. Gilson	3/1/90	Manuel Dias Jr.	3/9/90		3/19/90

FILE NAME	DRAWER	SHEET NO.	C.A.D. FILE
			\CLEMENT\TITLESHT