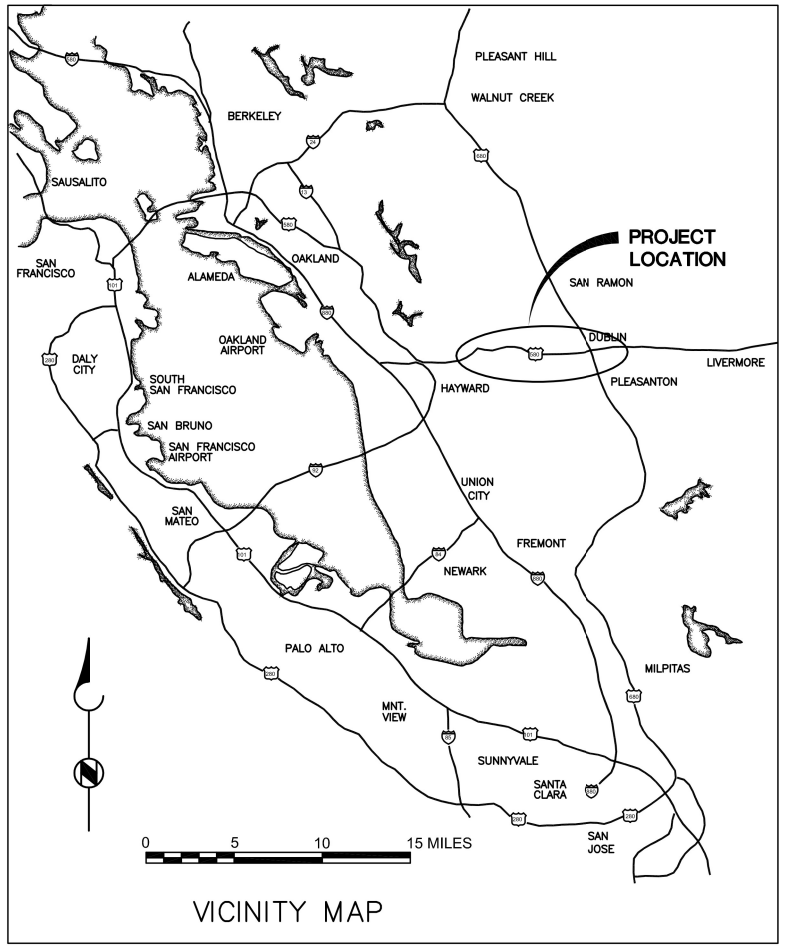
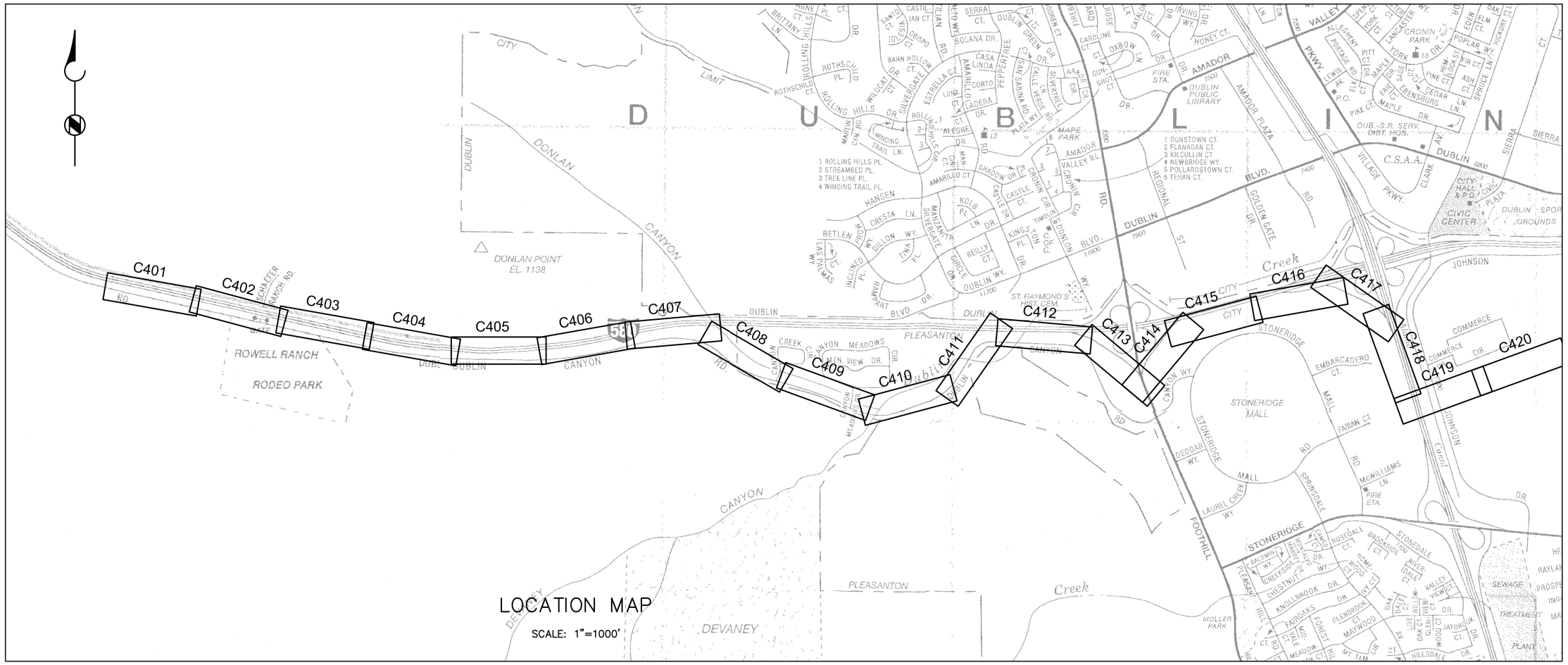


VICINITY MAP



LOCATION MAP

SCALE: 1"=1000'

INDEX OF DRAWINGS

SHEET NUMBER	DRAWING NUMBER	TITLE
1	G401	COVER SHEET
2	G402	VICINITY MAP, LOCATION MAP AND INDEX OF DRAWINGS
3	G403	LEGEND AND ABBREVIATIONS
4	G404	GENERAL NOTES
5	C401	SURVEY CONTROL POINTS AND SECTION & DETAIL IDENTIFICATION
6	C401A	PLAN AND PROFILE STA 0+00 TO STA 11+75
7	C402	SPECIAL MITIGATIONS STA 0+00 TO STA 11+75
8	C402A	PLAN AND PROFILE STA 11+75 TO STA 24+75
9	C403	SPECIAL MITIGATIONS STA 11+75 TO STA 24+75
10	C403A	PLAN AND PROFILE STA 24+75 TO STA 37+75
11	C404	SPECIAL MITIGATIONS STA 24+75 TO STA 37+75
12	C404A	PLAN AND PROFILE STA 37+75 TO STA 50+75
13	C405	SPECIAL MITIGATIONS STA 37+75 TO STA 50+75
14	C405A	PLAN AND PROFILE STA 50+75 TO STA 63+75
15	C406	SPECIAL MITIGATIONS STA 50+75 TO STA 63+75
16	C406A	PLAN AND PROFILE STA 63+75 TO STA 76+75
17	C407	SPECIAL MITIGATIONS STA 63+75 TO STA 76+75
18	C407A	PLAN AND PROFILE STA 76+75 TO STA 88+75
19	C408	SPECIAL MITIGATIONS STA 76+75 TO STA 88+75
20	C408A	PLAN AND PROFILE STA 88+75 TO STA 101+25
21	C409	SPECIAL MITIGATIONS STA 88+75 TO STA 101+25
22	C409A	PLAN AND PROFILE STA 101+25 TO STA 114+75
23	C410	SPECIAL MITIGATIONS STA 101+25 TO STA 114+75
24	C410A	PLAN AND PROFILE STA 114+75 TO STA 126+75
25	C411	SPECIAL MITIGATIONS STA 114+75 TO STA 126+75
26	C411A	PLAN AND PROFILE STA 126+75 TO STA 138+75
27	C412	SPECIAL MITIGATIONS STA 126+75 TO STA 138+75
28	C412A	PLAN AND PROFILE STA 138+75 TO STA 151+75
29	C413	SPECIAL MITIGATIONS STA 138+75 TO STA 151+75
30	C413A	PLAN AND PROFILE STA 151+75 TO STA 160+50
31	C414	SPECIAL MITIGATIONS STA 151+75 TO STA 160+50
32	C414A	PLAN AND PROFILE STA 160+50 TO STA 172+75
33	C415	SPECIAL MITIGATIONS STA 160+50 TO STA 172+75
34	C415A	PLAN AND PROFILE STA 172+75 TO STA 182+75
35	C416	SPECIAL MITIGATIONS STA 172+75 TO STA 182+75
36	C416A	PLAN AND PROFILE STA 182+75 TO STA 195+75
37	C417	SPECIAL MITIGATIONS STA 182+75 TO STA 195+75
38	C417A	PLAN AND PROFILE STA 195+75 TO STA 203+75
39	C418	SPECIAL MITIGATIONS STA 195+75 TO STA 203+75
40	C418A	PLAN AND PROFILE STA 203+75 TO STA 214+75
41	C419	SPECIAL MITIGATIONS STA 203+75 TO STA 214+75
42	C419A	PLAN AND PROFILE STA 214+75 TO STA 228+50
43	C420	SPECIAL MITIGATIONS STA 214+75 TO STA 228+50
44	C421	PLAN AND PROFILE STA 228+50 TO STA END
45	C422	SITE DETAILS 1
46	C423	SITE DETAILS 2
47	D1	SITE DETAILS 3
48	D2	AIR VALVE MANWAY DETAILS
49	D3	ACCESS MANWAY DETAILS
50	D4	ACCESS MANWAY DETAILS
51	D5	PIPE OUTLET DETAILS
52	D6	STEEL PIPE DETAILS 1
53	D7	STEEL PIPE DETAILS 2
54	D8	MISCELLANEOUS DETAILS 1
55	D9	MISCELLANEOUS DETAILS 2
56	D10	CATHODIC PROTECTION DETAILS
57	D11	CATHODIC PROTECTION DETAILS
58	LI	CATHODIC PROTECTION DETAILS
59	L2	CONSTRUCTION LAYOUT ACCESS PIT #1 STA 0+65
60	L3	CONSTRUCTION LAYOUT ACCESS PIT #2 STA 6+00
61	L4	CONSTRUCTION LAYOUT ACCESS PIT #3 STA 12+40
62	L5	CONSTRUCTION LAYOUT ACCESS PIT #4 STA 19+50
63	L6	CONSTRUCTION LAYOUT ACCESS PIT #5 STA 25+99.31
64	L7	CONSTRUCTION LAYOUT ACCESS PIT #6 STA 31+50
65	L8	CONSTRUCTION LAYOUT ACCESS PIT #7 STA 37+30
66	L9	CONSTRUCTION LAYOUT ACCESS PIT #8 STA 37+89
67	L10	CONSTRUCTION LAYOUT ACCESS PIT #9 STA 46+00
68	L11	CONSTRUCTION LAYOUT ACCESS PIT #10 STA 55+25
69	L12	CONSTRUCTION LAYOUT ACCESS PIT #11 STA 61+82
70	L13	CONSTRUCTION LAYOUT ACCESS PIT #12 STA 69+00
71	L14	CONSTRUCTION LAYOUT ACCESS PIT #13 STA 76+39.31
72	L15	CONSTRUCTION LAYOUT ACCESS PIT #14 STA 83+25
73	L16	CONSTRUCTION LAYOUT ACCESS PIT #15 STA 92+00
74	L17	CONSTRUCTION LAYOUT ACCESS PIT #16 STA 100+17.18
75	L18	CONSTRUCTION LAYOUT ACCESS PIT #17 STA 109+50
76	L19	CONSTRUCTION LAYOUT ACCESS PIT #18 STA 116+50
77	L20	CONSTRUCTION LAYOUT ACCESS PIT #19 STA 124+92.66
78	L21	CONSTRUCTION LAYOUT ACCESS PIT #20 STA 133+00
79	L22	CONSTRUCTION LAYOUT ACCESS PIT #21 STA 134+17
80	L23	CONSTRUCTION LAYOUT ACCESS PIT #22 STA 136+53.31
81	L24	CONSTRUCTION LAYOUT ACCESS PIT #23 STA 144+00
82	L25	CONSTRUCTION LAYOUT ACCESS PIT #24 STA 150+63.74
83	L26	CONSTRUCTION LAYOUT ACCESS PIT #25 STA 159+82
84	L27	CONSTRUCTION LAYOUT ACCESS PIT #26 STA 160+63
85	L28	CONSTRUCTION LAYOUT ACCESS PIT #27 STA 163+31.75
86	L29	CONSTRUCTION LAYOUT ACCESS PIT #28 STA 170+00
87	L30	CONSTRUCTION LAYOUT ACCESS PIT #29 STA 177+00
88	L31	CONSTRUCTION LAYOUT ACCESS PIT #30 STA 184+75
89	L32	CONSTRUCTION LAYOUT ACCESS PIT #31 STA 193+08.53
90	L33	CONSTRUCTION LAYOUT ACCESS PIT #32 STA 201+42.36
91	L34	CONSTRUCTION LAYOUT ACCESS PIT #33 STA 208+60
92	L35	CONSTRUCTION LAYOUT ACCESS PIT #34 STA 216+08.76
93	L36	CONSTRUCTION LAYOUT ACCESS PIT #35 STA 221+42.18
94	L37	CONSTRUCTION LAYOUT ACCESS PIT #36 STA 228+71.84
		CONSTRUCTION LAYOUT ACCESS PIT #37 STA 230+63.92

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: — DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE REHAB PROJECT
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

GENERAL

VICINITY MAP, LOCATION MAP AND INDEX OF DRAWINGS

SCALE: AS SHOWN
DRAWING NUMBER: **G401**
SHEET NUMBER: 1

DC-G401 | 1-06-03 | Cto | 1=1 | Filename: DC-G401 | Plot date: Jun 19, 2007-10:33:24am | Plotted by: zburke | Xref Filename: | X-BORDER | X-CWJ-SL | Image Filename: | Location.tif | lavwma.jpg

LEGEND (EXISTING)

36"LAVWMA	EXISTING LAVWMA PIPELINE INSTALLED 2001/2002
12"SS	EXISTING SEWER
15"SD	EXISTING STORM DRAIN
4"G	EXISTING GAS
8"W	EXISTING WATER
TEL	EXISTING LOCAL TELEPHONE
TCI	EXISTING TCI CABLE TV
ELECT	EXISTING ELECTRICAL
BART ELECT	EXISTING BART ELECTRICAL CONDUIT
ATT	EXISTING ATT FIBER OPTIC CABLE
SPRINT	EXISTING SPRINT FIBER OPTIC CABLE
IRR	EXISTING IRRIGATION
UCTC	EXISTING UNITED CABLE TELEVISION CORP.
VC	EXISTING VIACOM CABLE
	EXISTING PORTLAND CEMENT CONCRETE
	ABANDONED
	PROPERTY LINE
	EDGE OF PAVEMENT
	EXISTING FENCE
	BRUSH LINE
9 / 326.20	SURVEY CONTROL POINT
28 / 112.57	VERTICAL-ONLY CONTROL
28	HORIZONTAL-ONLY CONTROL
	PASS POINT
	TIE POINT
	UTILITY POTHOLE
	SOIL BORING
30' LT	30 FT LEFT LOOKING UPSTREAM
30' RT	30 FT RIGHT LOOKING UPSTREAM
	EASEMENT LINE
	EXISTING LAVWMA PIPELINE TO BE REHABILITATED
	EXISTING MANWAY
	EXISTING CONCRETE ENCASEMENT
	EXISTING CATHODIC PROTECTION TEST STATION

	HANDHOLE
	UTILITY
	UTILITY BOX
	TELEPHONE MANHOLE
	TELEPHONE HANDHOLE
	TELEPHONE POLE
	SEWER MANHOLE
	SEWER VALVE
	SEWER CLEANOUT
	STORM MANHOLE
	CATCH BASIN
	ELECTRIC MANHOLE
	ELECTRIC HANDHOLE
	TRANSFORMER
	ELECTRIC SWITCH BOX
	POWER POLE
	POWER POLE WITH ANCHOR
	NATURAL GAS VALVE
	NATURAL GAS VALVE BOX
	WATER VALVE
	WATER VALVE BOX
	WATER METER
	HYDRANT
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL HANDHOLE
	TRAFFIC SIGNAL W/ARM ONLY
	TRAFFIC SIGNAL W/ARM & POLE
	TRAFFIC CONTROL BOX
	TRAFFIC DETECTOR LOOP
	LIGHT POLE
	LIGHTING HANDHOLE
	STREET LIGHT
	TELEVISION MANHOLE
	T.V. HANDHOLE
	T.V. BOX
	ELECTRICAL TRANSMISSION TOWERS
	TREE SYMBOL

LEGEND (NEW)

TEMPORARY CONSTRUCTION EASEMENT
BLOW-OFF ASSEMBLY
COMBINATION AIR VALVE OR AIR AND VACUUM VALVE ASSEMBLY
MANWAY
TEE WITH BLIND FLANGE
BUTTERFLY VALVE
GATE VALVE
TEMPORARY ACCESS PIT
TEMPORARY ACCESS PIT (PROFILE)

ABBREVIATIONS

	AREA		GAS
	AGGREGATE BASE		GAGE, GAUGE
	ASPHALT CONCRETE		
	AGGREGATE		GLOBE VALVE
	APPURTENANCES		GALLONS PER DAY
	AIR REALEASE VALVE		GALLONS PER MINUTE
	ASSEMBLY		GLOBAL POSITIONING SYSTEM
			GALVANIZED STEEL PIPE
			GATE VALVE
	BEGIN CURVE		
	BLIND FLANGE		HYDRAULICALLY CONTROLLED CAV
	BUTTERFLY VALVE		HORIZONTAL DIRECTIONAL DRILL
	BLOWOFF		HIGH DENSITY POLYETHYLENE PIPE
	BALL VALVE		HORIZONTAL
			HEAVY
			HIGHWAY
	CONC MORTAR LINED AND COATED WSP		
	CUBIC FEET PER MINUTE		INSIDE DIAMETER
	CUBIC FEET PER SECOND		INCH(ES)
	CURB AND GUTTER		INSTRUMENTATION
	CURB, GUTTER, AND SIDEWALK		INSULATION
	CAST IRON		INTERIOR
	CAST IN PLACE, CAST IRON PIPE		INVERT
	CHLORINE		IRON PIPE SIZE
	CLEAR, CLEARANCE		IRON PIPE THREAD
	CENTIMETER		IRRIGATION WATER
	CONC MORTAR LINING		
	CLEANOUT, COMPANY		JOINT OR JOINT TRENCH
	CONCRETE		
	CONSTRUCT, CONSTRUCTION		KIP (1,000 LB)
	CONTINUED, CONTINUOUS		KILOGRAM(S)
	COORDINATE, COORDINATION		KILOPASCAL(S)
	CORPORATION		
	COUPLING		LENGTH
	CORRUGATED STEEL PIPE		POUND(S)
	CONTROL VALVE		LINEAR FEET
	CUBIC YARD		LEFT
	CENTERLINE		
			METER
	DOUBLE		MATERIAL
	DIRECT CURRENT		MAXIMUM
	DEGREE		MECHANICAL
	DETAIL		MILLION GALLONS
	DUCTILE IRON, DROP INLET		MILLION GALLONS PER DAY
	DIAMETER		MANAGER
	DISTANCE		MANHOLE
	DUCTILE IRON PIPE		MINIMUM
	DOMESTIC		MECHANICAL JOINT
	DIMENSION RATIO		MILLILITER
	DRIVEWAY		MILLIMETER
	DRAWING		MICROTUNNEL, MICROTUNNELING
	ELECTRICAL, EAST		NORTH
	EACH		NATURAL
	END CURVE		NOT IN CONTRACT
ECC	ECCENTRIC		NATIONAL PIPE THREAD
	EACH FACE		NON RISING STEM
	EXIST GRADE, EXIST GROUND		
EL			ON CENTER
	ELBOW		OUTSIDE DIAMETER
	EQUIPMENT		PRESSURE
	EACH WAY		PORTLAND CEMENT CONCRETE
	EXISTING		POLYETHYLENE, PLAIN END
	EXPRESSWAY		PACIFIC GAS AND ELECTRIC CO
E/L	PERMANENT EASEMENT LIMIT		POTHOLE
E/P	EDGE OF PAVEMENT		POINT OF INTERSECTION
			PLATE
	FAHRENHEIT		POLYPROPYLENE
			POUNDS PER SQUARE INCH
	FLANGED COUPLING ADAPTOR		PLUG VALVE
	FEMALE		POLYVINYL CHLORIDE
			VERTICAL POINT OF INTERSECTION
	FIRE HYDRANT	P/L	PROPERTY LINE
	FINISHED		
	FLOW LINE		
	FLANGE		
	FLANGED		
	FIBER OPTIC		
	FACE OF CURB		
	FEET PER SECOND		
	FOREIGN PIPELINE TEST STATION		
	FOOT, FEET		
	FUTURE		

	RADIUS		
	RADIUS, RADIANS		
	REINFORCED CONCRETE PIPE		
RCCP	REINFORCED CONCRETE CYLINDER PIPE		
	REDUCER, REDUCING		
	REINFORCEMENT, REINFORCING		
	REQUIRED		
	REQUIREMENTS		
	RAILROAD		
	RIGHT		
	RECYCLED WATER		
R/W	RIGHT OF WAY		
	SLOPE, SOUTH		
SA	SERVICE AIR, SAMPLE		
	SOIL BORING		
	SCHEDULE		
	STORM DRAIN		
	STANDARD DIMENSION RATIO		
SEC, SECT	SECTION		
	PLAN SHEET, DRAWING SHEET		
	SIMILAR		
	SPECIFICATION		
	SPACING		
	SANITARY SEWER		
	STAINLESS STEEL		
	STATION		
	STATE OF CALIFORNIA		
	STANDARD		
	STREET		
	STEEL		
	SERVICE		
	SQUARE		
S/L	SPRING LINE		
S/W	SIDEWALK		
	THICKNESS, TANGENT		
	TOP AND BOTTOM		
TCE	TEMPORARY CONSTRUCTION EASEMENT		
	TCI CABLE VISION		
	TELEPHONE		
	TEMPERATURE, TEMPORARY		
	THREADED, THREADS		
	TELEVISION		
	TYPICAL		
T/B	TOP OF BANK		
T/C	TOP OF CURB		
	UNDERGROUND		
	UTILITY		
	UNDERGROUND SERVICE ALERT		
	UNLESS SHOWN OTHERWISE		
UW	UTILITY WATER		
	VELOCITY		
	VARIES, VARIOUS		
	VICTAULIC		
	VERIFY IN FIELD		
	VERTICAL CURVE		
	VITRIFIED CLAY PIPE		
	VERTICAL		
	WATER, WEST		
	WATER METER		
	WELDED STEEL		
	WELDED STEEL PIPE		
	WATERSTOP		
	WAY		
W/	WITH		
W/O	WITHOUT		

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

GENERAL

LEGEND AND ABBREVIATIONS

SCALE: NO SCALE
DRAWING NUMBER: **G402**
SHEET NUMBER: 2

Xref Filename: DC-G402 1-03 Cto | X-BORDER | X-CWJ-SL | Image Filename: lavwma.jpg | Plot date: Jun 19, 2007-10:35:01am | Plotted by: zburke | 1=1

GENERAL NOTES:

1. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 FOR LOCATING AND MARKING UNDERGROUND UTILITIES IN THE AREAS OF THE WORK. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY ADDITIONAL UTILITY COMPANIES TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTACT AND COORDINATION WITH USA AND USA MARKINGS SHALL NOT RELIEVE THE CONTRACTOR FROM ITS RESPONSIBILITY FOR UTILITY VERIFICATION AND PROTECTION.

2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN THESE PLANS AND THE SPECIFICATIONS THAT ARE THE CONTRACT DOCUMENTS FOR THE PROJECT. MANY MITIGATION, REQUIREMENTS, LIMITATIONS, AND RESTRICTIONS ARE IN EFFECT ON THIS PROJECT FROM MANY JURISDICTIONS, AS IDENTIFIED IN THE SPECIFICATIONS. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS RELATED TO THE PROJECT.

3. ALL COORDINATES AND STATIONING REFER TO HORIZONTAL DISTANCE ONLY.

4. EXISTING ALIGNMENT MAY DIFFER IN HORIZONTAL LOCATION FROM WHAT IS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL POT HOLE ACCESS PIT AND MANWAY LOCATIONS PRIOR TO EXCAVATION OR MANUFACTURE OF VAULTS AND MANWAYS.

5. EXISTING AT&T UTILITY IS UP TO 4 FEET WIDE. THE CONTRACTOR SHALL POTHOLE THE EXISTING AT&T DUCT BANK PRIOR TO CONSTRUCTION IN THE VICINITY OF ALL ACCESS MANWAY OR AIR VALVE MANWAY EXCAVATIONS TO INSURE THAT THE HORIZONTAL LOCATION OF THE DUCT BANK DOES NOT INTERFERE WITH THE INSTALLATION OF THE MANWAY. IF AN INTERFERENCE IS APPARENT AFTER POT HOLING, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER BEFORE PROCEEDING.

6. EXISTING 24, 30, AND 36-INCH WSP IS COAL TAR ENAMEL LINED AND COAL TAR AND ASBESTOS FELT COATED.

7. STRUCTURAL DRAWINGS AND DETAILS OF EXISTING VAULTS AND MANWAYS TO BE DEMOLISHED CAN BE FOUND IN 1977 CH2MHILL DRAWINGS ENTITLED "LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY EXPORT SYSTEM EXPORT PIPELINE CONTRACT NO. 3" WHICH ARE AVAILABLE FOR CONTRACTOR REVIEW PER SPECIFICATIONS.

8. AERIAL PHOTOS AS SHOWN ON SPECIAL MITIGATION "A" DRAWINGS WERE TAKEN IN APRIL OF 2000. SITE CONDITIONS MAY HAVE CHANGED SINCE THAT DATE. CONTRACTOR SHALL USE TOPOGRAPHIC INFORMATION ON THE PLAN AND PROFILE SHEETS FOR DETAILED EXISTING SITE INFORMATION.

9. EXISTING PIPE BEDDING IS PEA GRAVEL. EXTENT OF PEA GRAVEL IS UNKNOWN. PLANS INDICATE LOCATIONS WHERE PEA GRAVEL HAS HAD GROUT STABILIZATION.

WORK TO BE DONE:

THE WORK TO BE DONE INCLUDES THE REHABILITATION OF APPROXIMATELY 23,000 FEET OF EXISTING 24-INCH, 30-INCH, AND 36-INCH DIAMETER STEEL PIPELINES FOR THE EXPORT OF TREATED WASTEWATER. THE PROJECT IS LOCATED WITHIN THE CITY OF PLEASANTON AND UNINCORPORATED PORTIONS OF ALAMEDA COUNTY. THE WORK ALSO INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: CLEANING AND VISUAL AND VIDEO INSPECTIONS OF THE PIPELINE AND JOINTS, IDENTIFICATION AND REPAIR OF PIPE BARREL POINT REPAIRS AND SUBSTANDARD JOINTS, CURED-IN-PLACE PIPE OR CEMENT-MORTAR LINING REHABILITATION, REMOVAL OF EXISTING AIR VALVE MANWAYS, AIR VALVES, AND ASSOCIATED APPURTENANCES, INSTALLATION OF NEW AIR VALVE MANWAYS AND ACCESS MANWAYS, PRESSURE TESTING OF THE PIPELINE, AND TRAFFIC CONTROL DURING CONSTRUCTION.

CONSTRUCTION SEQUENCING:

THE CONTRACTOR SHALL PERFORM THE WORK IN THE FOLLOWING SEQUENCE:

(1) CLEANING OF EXISTING PIPELINE,
(2) VISUAL AND VIDEO INSPECTION OF THE PIPELINE AND JOINTS,
(3) PIPE BARREL POINT REPAIRS AND REPAIR OF SUBSTANDARD JOINTS,
(4) VIDEO AND VISUAL INSPECTION OF REPAIRS,
(5) REHABILITATION OF THE EXISTING PIPELINE USING CURED-IN-PLACE PIPE OR CEMENT-MORTAR LINING,
(6) INSTALLATION OF MANWAYS,
(7) VISUAL AND VIDEO INSPECTION OF THE REHABILITATED PIPELINE, JOINTS, AND MANWAYS,
(8) PRESSURE TESTING OF PIPELINE,
(9) JOINT REPAIRS (IF NECESSARY), AND
(10) RE-PRESSURE TESTING OF PIPELINE (IF NECESSARY).

THE CONTRACTOR SHALL REPEAT STEPS (9) AND (10) AS NECESSARY.

Filename: DC-G403 | Plot date: Jun 19, 2007-10:55:24am | Plotted by: zburke | Xref Filename: | X-BORDER | X-CWJ-SL | x-jag-SL | Image Filename: lavwma.jpg | 1=1 | Cto | 1-03 | DC-G403

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ — DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

GENERAL

GENERAL NOTES

SCALE: NO SCALE
DRAWING NUMBER: G403
SHEET NUMBER: 3

SUMMARY OF SURVEY CONTROL POINTS

DRAWING NUMBER	CONTROL POINT	COORDINATES		MON. ELEVATION	DESCRIPTION/LOCATION
		NORTHING	EASTING		
C401	125	2080477.44	6131438.76	679.92	FX SS&TT S SIDE DUB CYN RD.
C402	122	2080118.38	6133265.24	705.86	SS&TT S SIDE DUB CYN RD.
C402	123	2080266.02	6132686.22	699.01	FX BRASS DISK BART 30
C403	121	2079787.69	6134972.25	750.25	FX SS&TT S SIDE DUB CYN RD.
C404	118	2079580.67	6135711.22	740.08	FX SS&TT S SIDE DUB CYN RD.
C404	119	2079682.49	6135242.68	751.22	SS&TT S SIDE DUB CYN RD.
C405	116	2079491.69	6137707.16	640.28	FX SS&TT S SIDE DUB CYN RD.
C405	117	2079496.42	6136700.28	689.70	FX=690.11 CITY MON S DUB CYN RD.
C407	113	2079808.71	6140215.94	527.93	SS&TT N SIDE DUB CYN RD. @ #10705
C407	114	2079806.91	6139675.30	559.12	FX SS&TT S SIDE DUB CYN RD.
C408	111	2079380.18	6140774.12	492.52	FX SS&TT S DUB CYN RD. @ #10890
C408	112	2079525.20	6140630.43	497.79	SS&TT N SIDE DUB CYN RD. @ #10890
C408	50038	2079236.00	6141314.97	476.73	SS&TT DUB CYN RD @ CANYON CR CIRCLE
C409	110	2079027.75	6141876.08	461.42	FX SS&TT CL DUB CYN RD.
C409	252	2078648.67	6141637.61	598.36	NO ACCESS. WINGPOINT FOR PHOTOCONTROL
C409	50075	2078783.43	6142391.97	448.70	N&TT CL DUB CYN RD @ CYN MEADOW DR
C410	109	2078653.16	6142848.41	442.09	FX SS&TT D/W S DUB CYN RD #11115
C410	50102	2078898.87	6143647.80	427.73	N&TT SO DUB CYN RD, W OF LAUREL CR
C411	107	2079750.58	6144329.15	403.17	FX SS&TT N DUB CYN RD NR BART SUBSTA
C411	108	2079033.16	6143795.06	422.30	FX SS&TT CL DUB CYN RD
C411	50143	2079275.45	6143991.43	414.48	N&TT CL DUB CYN RD, E OF LAUREL CR
C412	106	2079747.21	6145349.29	390.27	FX SS&TT N DUB CYN RD. (FARMER'S INSUR)
C413	50200	2079641.26	6145965.01	379.74	N&TT RAMP FROM I-580 E @ MARRIOTT
C413	50215	2079251.64	6146392.03	377.67	PK NAIL SE COR MARRIOTT PARKING LOT
C413,C414	50230	2078937.41	6146605.83	374.57	N&TT CURB, E SIDE HOTEL PARKING LOT
C413,C414	50231	2079116.01	6146709.08	377.29	CUT + E SIDE FOOTHILL @ I-580 RAMP
C414	50263	2079456.50	6146819.86	381.28	N&S S SIDE ON-RAMP I-580 EAST
C414,C415	50272	2079877.01	6147168.92	367.54	N&S S SIDE ON-RAMP I-580 EAST
C415	251	2079833.31	6148149.24	349.43	FX SS&TT CL S MALL RD @ WYNDAM HOTEL
C415	50287	2080014.24	6147642.11	356.91	60D IN LAWN @ WYNDAM HOTEL
C415	50288	2080157.36	6148153.35	353.87	N&S A/C LOT
C416	250	2080334.38	6149357.88	341.28	FX SS&TT P. LOT STONE. CORP. PLAZA
C416	50289	2080214.48	6148456.21	351.42	N&S A/C LOT
C416	50290	2080359.80	6149300.11	342.14	N&S A/C LOT
C417	50291	2080208.46	6149908.91	334.64	N&S A/C LOT
C418	202	2081834.34	6143355.38	462.72	FX SS&TT IN AC N SIDE DUB CYN RD
C418	50292	2079173.92	6150317.70	329.98	N&S A/C LOT
C419	201	2078907.17	6150969.44	327.56	FX SS&TT 7166 JOHNSON DR @ CLOROX DWY
C419	314	2078728.71	6150632.49	332.42	FX SS&TT EP SB 680 X FABIAN CT.
C419	316	2079153.92	6151559.94	328.44	FX SS&TT CL CLOROX DWY NR PUMP STA.
C419	317	2079106.13	6151730.72	330.35	FX SS&TT LAVWMA PS DWY

NOTES:

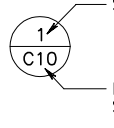
1. HORIZONTAL VALUES ARE REFERENCED TO THE CALIFORNIA COORDINATE SYSTEM ZONE 3, NORTH AMERICAN DATUM OF 1983, 1991.35 EPOCH. (ALSO KNOWN AS CALIFORNIA COORDINATE SYSTEM OF 1983(1992), OR CCS83(1992)). BASED ON CALIFORNIA HIGH-PRECISION GEODETIC NETWORK POINTS "HPGN CA 0406" AND "HPGN CA 0407".
2. VERTICAL DATUM REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED ON NGS BM'S H 1257, F 972, E 1257 RESET, L 148 AND P 1256. CONVERSION TO NAVD88 PROVIDED ON THE DATA SHEET FOR "L 148", WITH A VALUE MARKED AS "ADJUSTED". TO CONVERT VALUES TO NGVD29, SUBTRACT 2.72 FEET.
3. CONTRACTOR SHALL PROTECT MONUMENTS AND REPLACE ANY MONUMENTS DAMAGED AS A RESULT OF WORK TO MONUMENT OWNERS STANDARD FOR MONUMENT THAT IS DAMAGED. IN ACCORDANCE WITH SPECIFICATION 01060.

ABBREVIATIONS FOR THIS DRAWING:

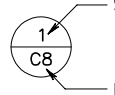
BL	BOULEVARD
DUB CYN RD	DUBLIN CANYON ROAD
FX	FLIGHT CROSS
INT	INTERSECTION
N	NORTH
NE	NORTHEAST
NGS	NATIONAL GEODETIC SYSTEM
N&S	NAIL & SPIKE
N&TT	NAIL & "TOWILL" TAG
SS&TT	SURVEY SPIKE & "TOWILL" TAG

SECTION AND DETAIL IDENTIFICATION

(1) SECTION CUT ON DRAWING C8

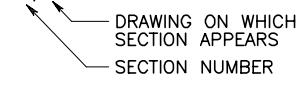


(2) ON DRAWING C10 THIS SECTION IS IDENTIFIED AS:



(3) SECTION CALLOUT IN TEXT

SEE SECTION 2/C10



(4) DETAILS ARE CROSS-REFERENCED IN A SIMILAR MANNER, EXCEPT THAT DETAILS ARE IDENTIFIED BY LETTER RATHER THAN BY NUMBER.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN C. TO
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

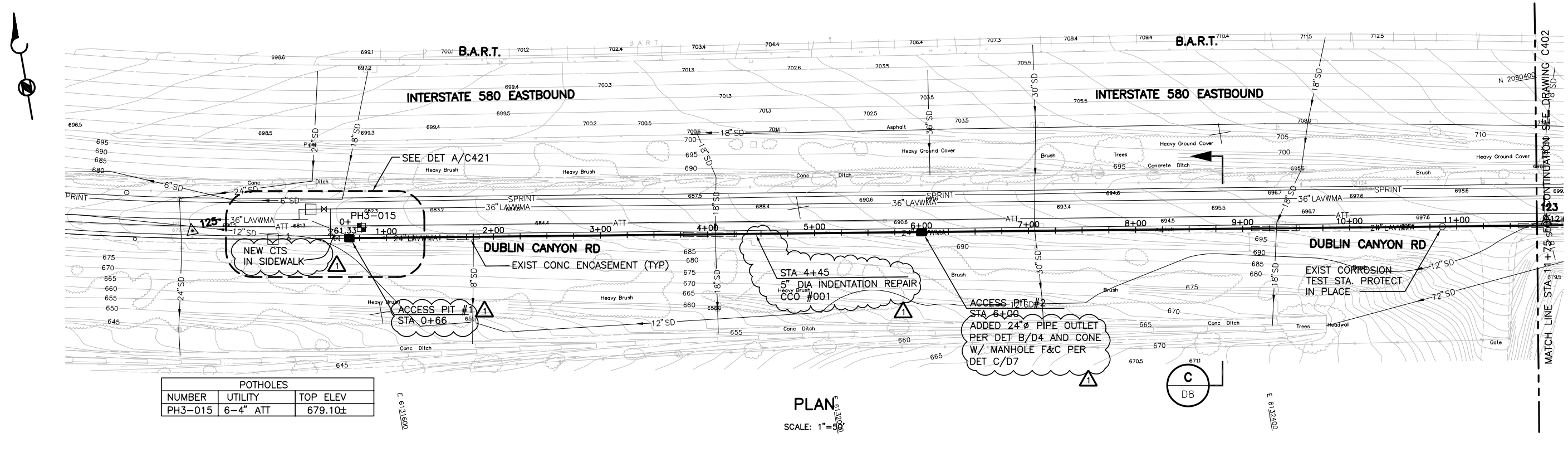
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

GENERAL

SURVEY CONTROL POINTS AND SECTION AND DETAIL IDENTIFICATION

SCALE: NO SCALE
DRAWING NUMBER: G404
SHEET NUMBER: 4

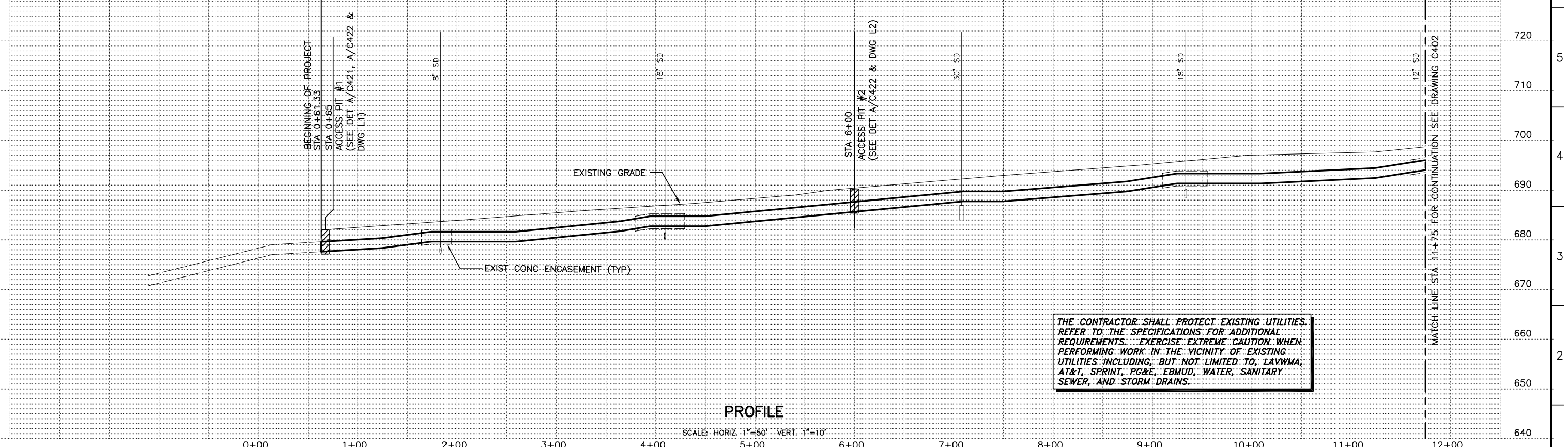
Name: DC-G404 1-03 Cto | Filename: DC-G404 1=1 Image | X-CWJ-SL X-BORDER | Plotted by: zburke Xref Filename: X-BORDER | Plot date: Jun 19, 2007-11:09:42am | Filename: lavwma.jpg



POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-015	6-4" ATT	679.10±

PLAN

SCALE: 1"=50'



PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, WATER, SANITARY SEWER, AND STORM DRAINS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

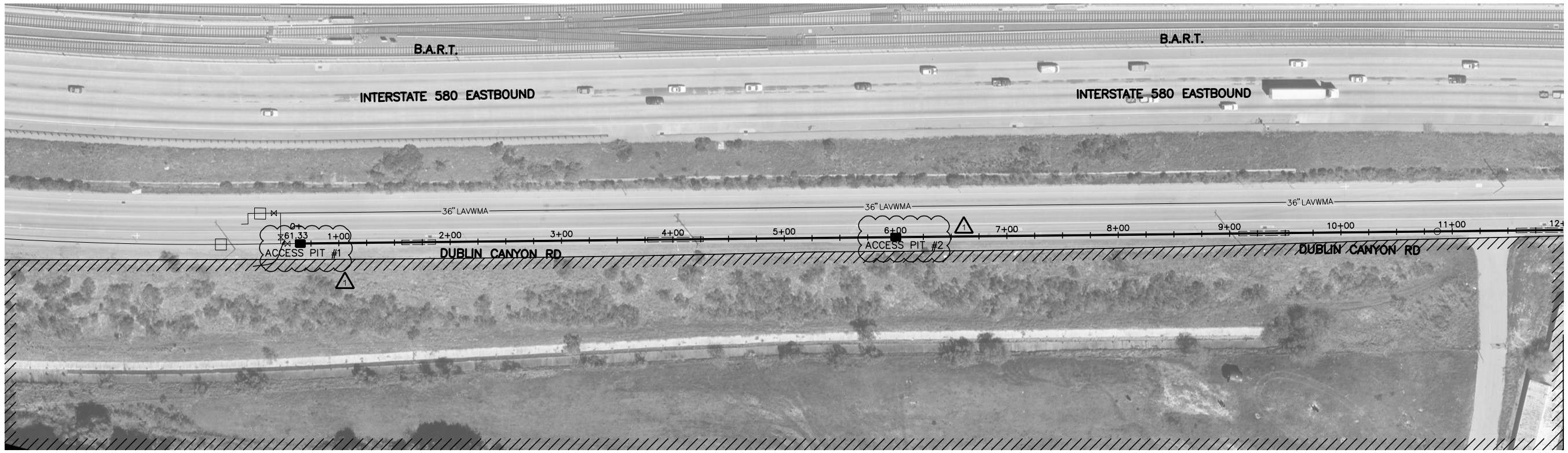
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE STA 0+00 TO STA 11+75

SCALE: AS SHOWN
DRAWING NUMBER: C401
SHEET NUMBER: 5

Filename: DC-C401 | X-BORDER | X-TOP06 | X-TOP07 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg
Plotted by: zburke Xref Filename:
Plot date: Jun 18, 2007-03:13:19pm
1=1
11-10-00 Cto
DC-C401



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

BIO-2

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES
PIPELINE REHABILITATION REPIAR PROJECT
PROJECT 2003-01

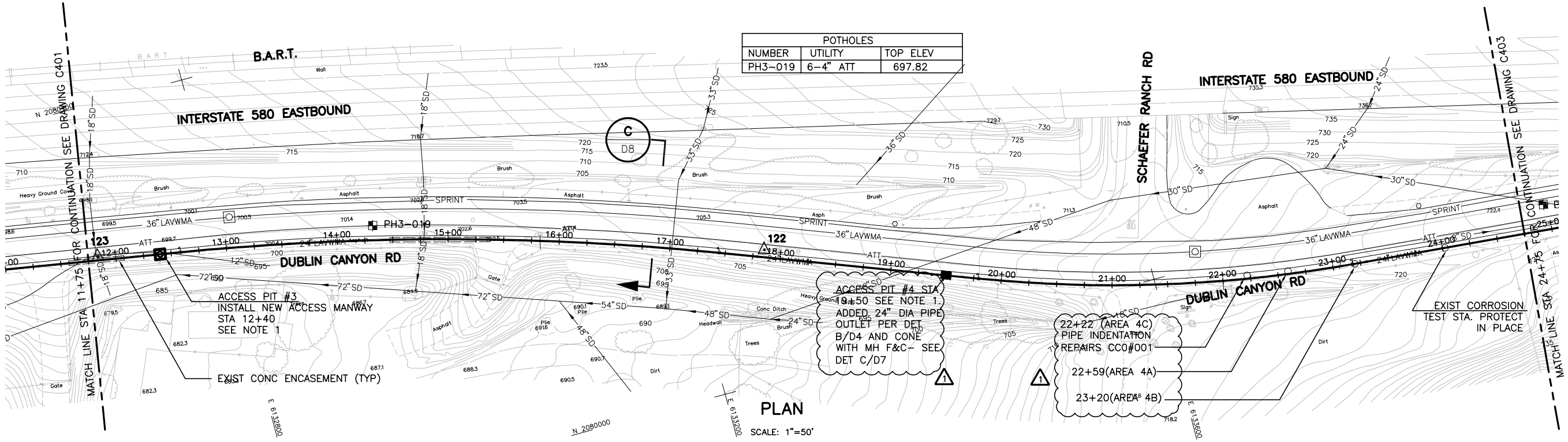
CIVIL

SPECIAL MITIGATIONS
STA 0+00 TO STA 11+75

SCALE: AS SHOWN
DRAWING NUMBER: C401A
SHEET NUMBER: 6

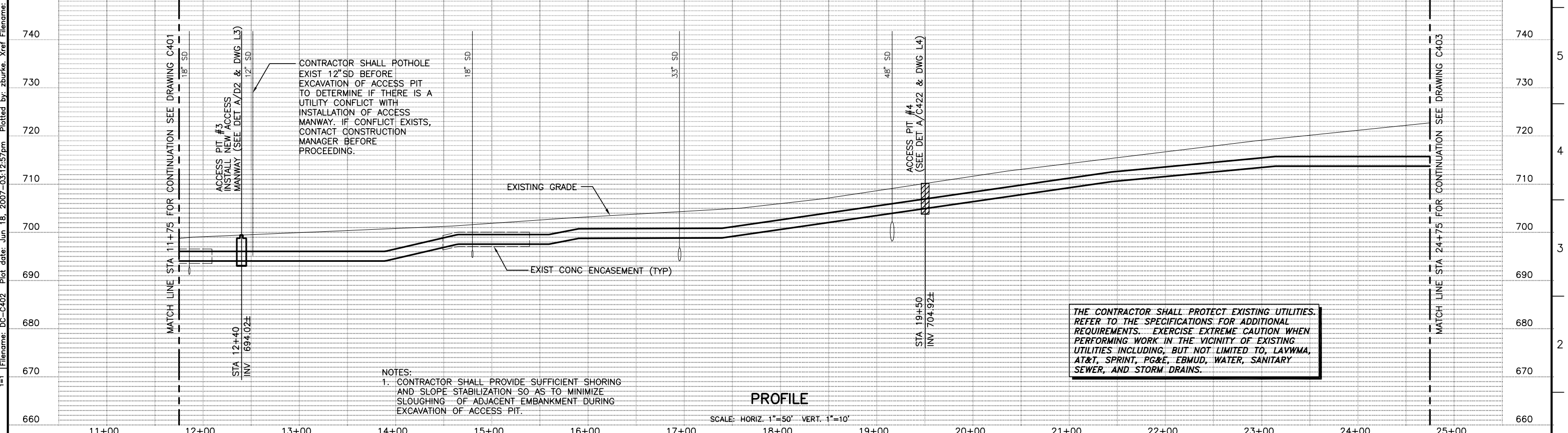
Filename: X–BORDER | X–SITE3 | X–proper | Image Filename: C47.tif | lavwma.jpg
Filename: C401A Plot date: Jun 18, 2007–03:31:32pm Plotted by: zburke. Xref Filename:
C401A 11–10–00 PC 1st1

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-019	6-4" ATT	697.82



PLAN

SCALE: 1"=50'



NOTES:
1. CONTRACTOR SHALL PROVIDE SUFFICIENT SHORING AND SLOPE STABILIZATION SO AS TO MINIMIZE SLOUGHING OF ADJACENT EMBANKMENT DURING EXCAVATION OF ACCESS PIT.

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, WATER, SANITARY SEWER, AND STORM DRAINS.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: — DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

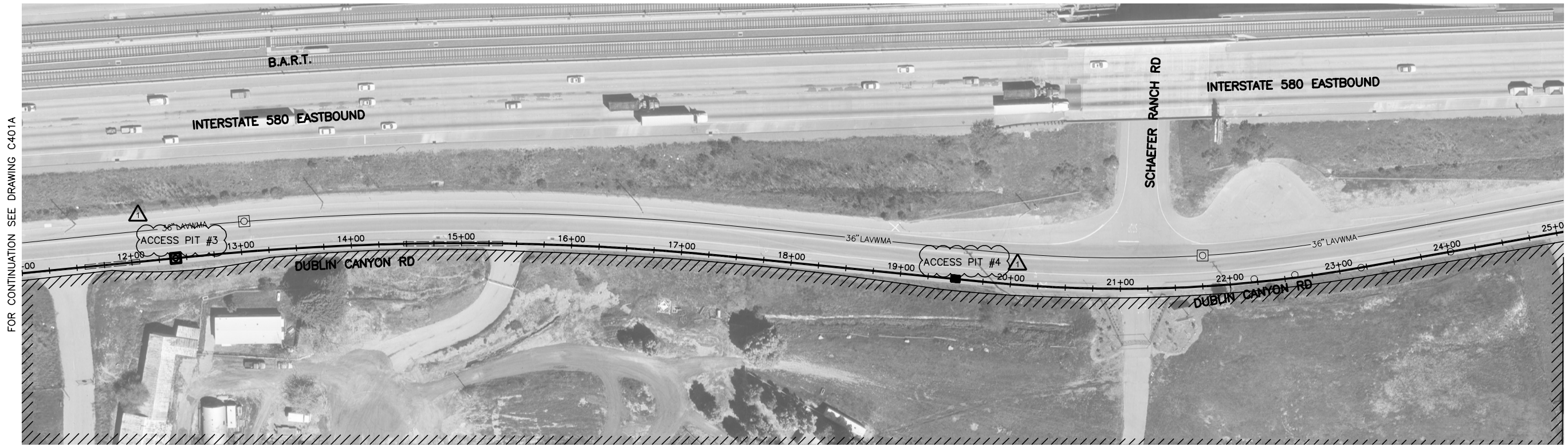
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE STA 11+75 TO STA 24+75

SCALE: AS SHOWN
DRAWING NUMBER: C402
SHEET NUMBER: 7

Xref Filename: | X-BORDER | X-TOP07 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: | lavwma.jpg
Plotted by: zburke, 2007-03:12:57pm
Plot date: Jun 18,
Filename: DC-C402
1=1
DC-C417 11-10-00 Cto



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

BIO-2

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

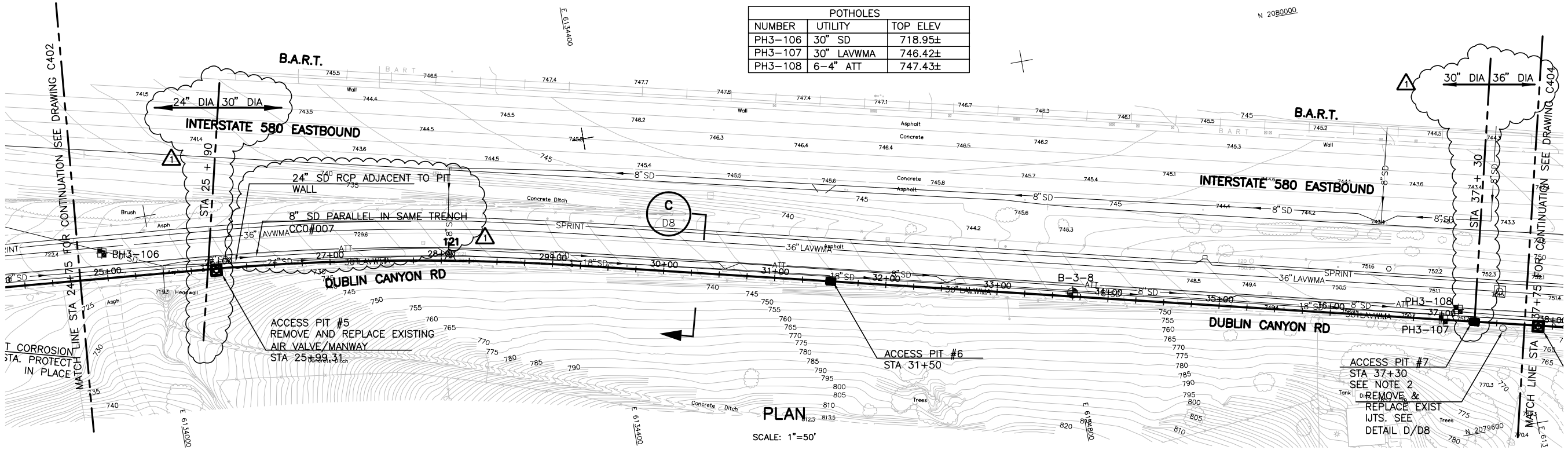
CIVIL

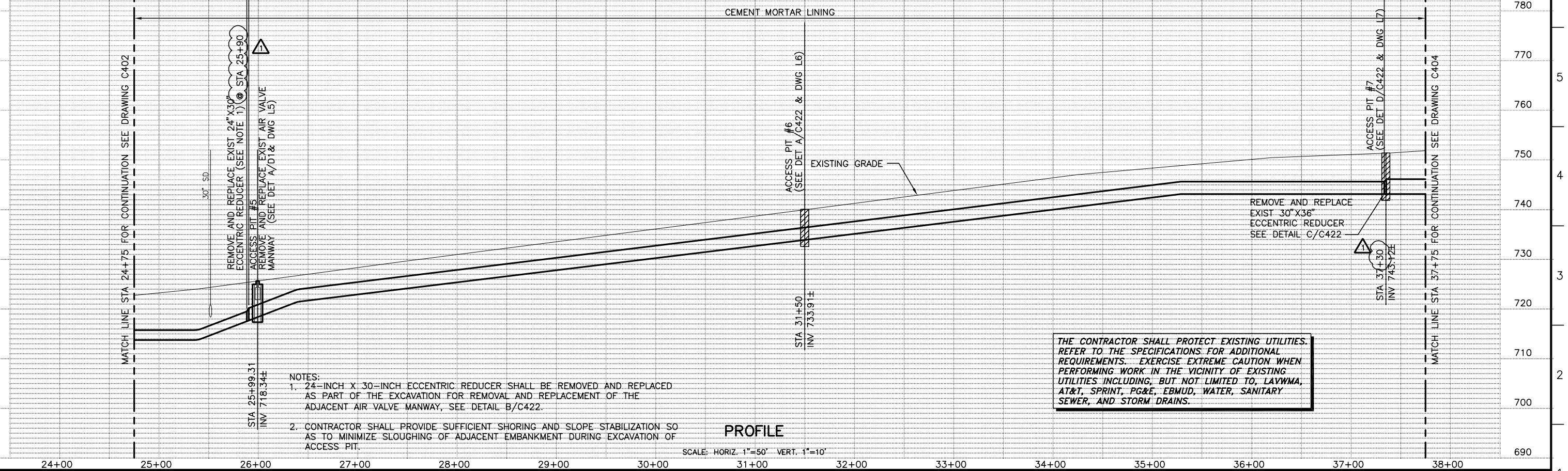
SPECIAL MITIGATIONS
STA 11+75 TO STA 24+75

SCALE: AS SHOWN
DRAWING NUMBER: **C402A**
SHEET NUMBER: 8

Filename: C402A Plot date: Jun 18, 2007–03:30:47pm Plotted by: zburke Xref Filename: X–BORDER X–SITE3 X–proper Image Filename: C48.tif lavwma.jpg 1=1 PC 11–10–00 C402A

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3–106	30" SD	718.95±
PH3–107	30" LAVWMA	746.42±
PH3–108	6–4" ATT	747.43±





NOTES:
1. 24–INCH X 30–INCH ECCENTRIC REDUCER SHALL BE REMOVED AND REPLACED AS PART OF THE EXCAVATION FOR REMOVAL AND REPLACEMENT OF THE ADJACENT AIR VALVE MANWAY, SEE DETAIL B/C422.
2. CONTRACTOR SHALL PROVIDE SUFFICIENT SHORING AND SLOPE STABILIZATION SO AS TO MINIMIZE SLOUGHING OF ADJACENT EMBANKMENT DURING EXCAVATION OF ACCESS PIT.

PROFILE
SCALE: HORIZ. 1"=50' VERT. 1"=10'

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, WATER, SANITARY SEWER, AND STORM DRAINS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LIVERMORE–AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003–01

CIVIL

PLAN AND PROFILE
STA 24+75 TO STA 37+75

SCALE: AS SHOWN
DRAWING NUMBER: **C403**
SHEET NUMBER: 9

Plot date: Jun 18, 2007–03:12:40pm | Plotted by: zburke | Xref Filename: | Image Filename: lavwma.jpg | Filename: DC–C403 | 1=1 | DC–C418 11–10–00 Cto | X–BORDER | X–TOP07 | X–EXUTIL | X–SITE4 | x–proper



LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

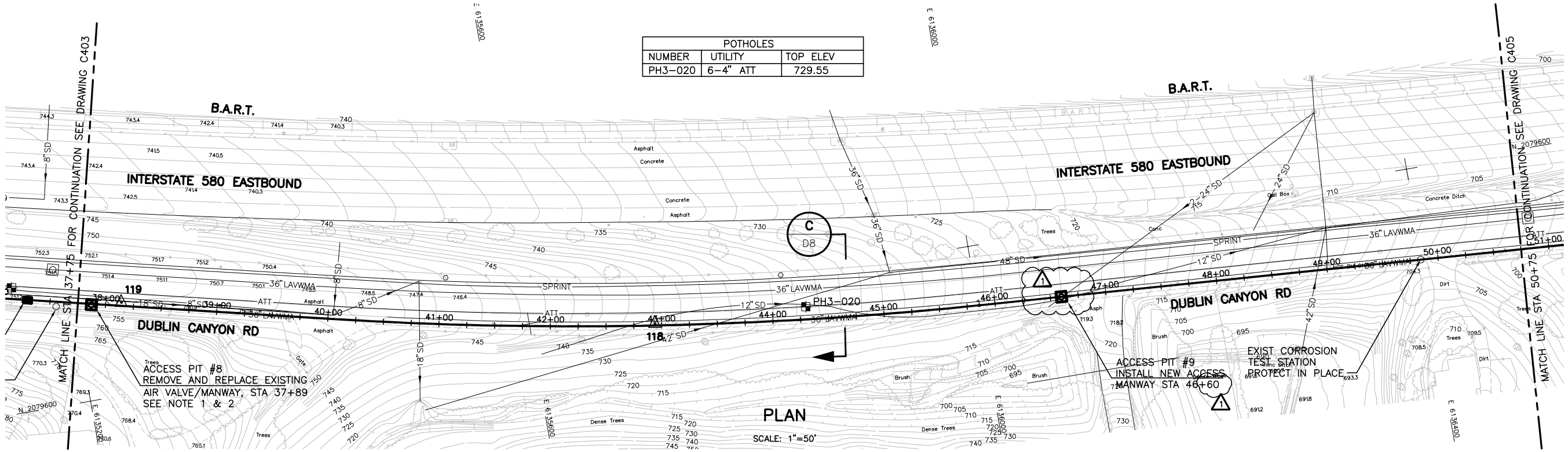
CIVIL

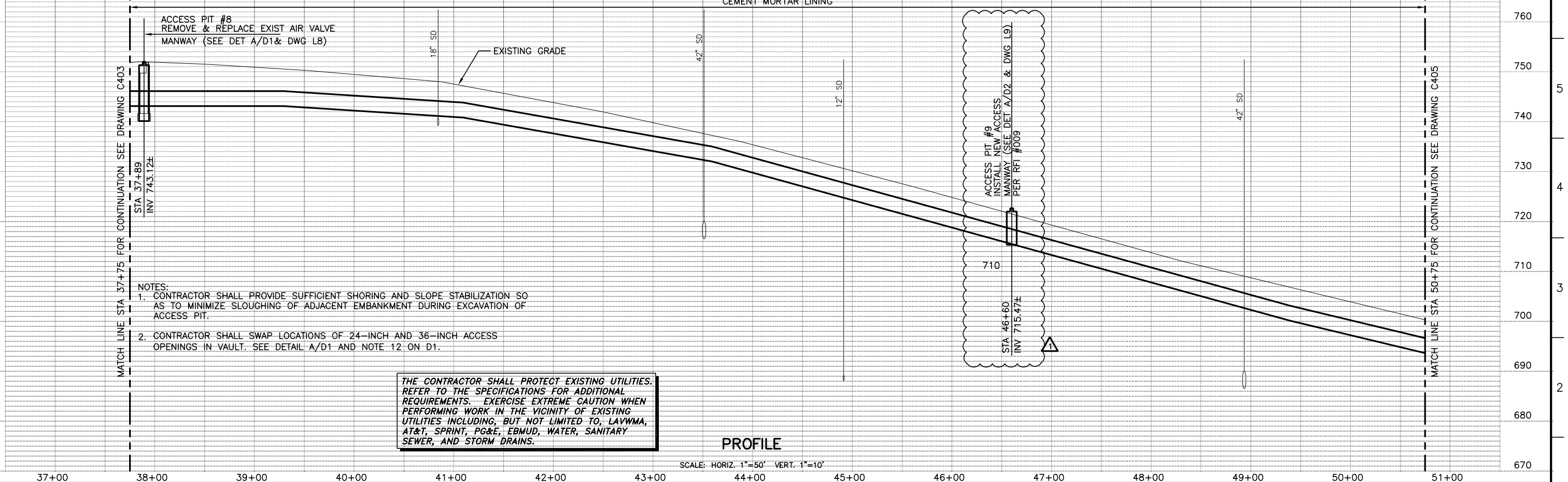
SPECIAL MITIGATIONS STA 24+75 TO STA 37+75

SCALE: AS SHOWN
DRAWING NUMBER: C403A
SHEET NUMBER: 10

Filename: C403A | X-BORDER | X-SITE4 | x-proper | Image Filename: C49.tif | lavwma.jpg | 1=1 | PC | 11-10-00 | Filename: C403A Plot date: Jun 18, 2007-03:29:55pm Plotted by: zburke. Xref Filename:

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-020	6-4" ATT	729.55





BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

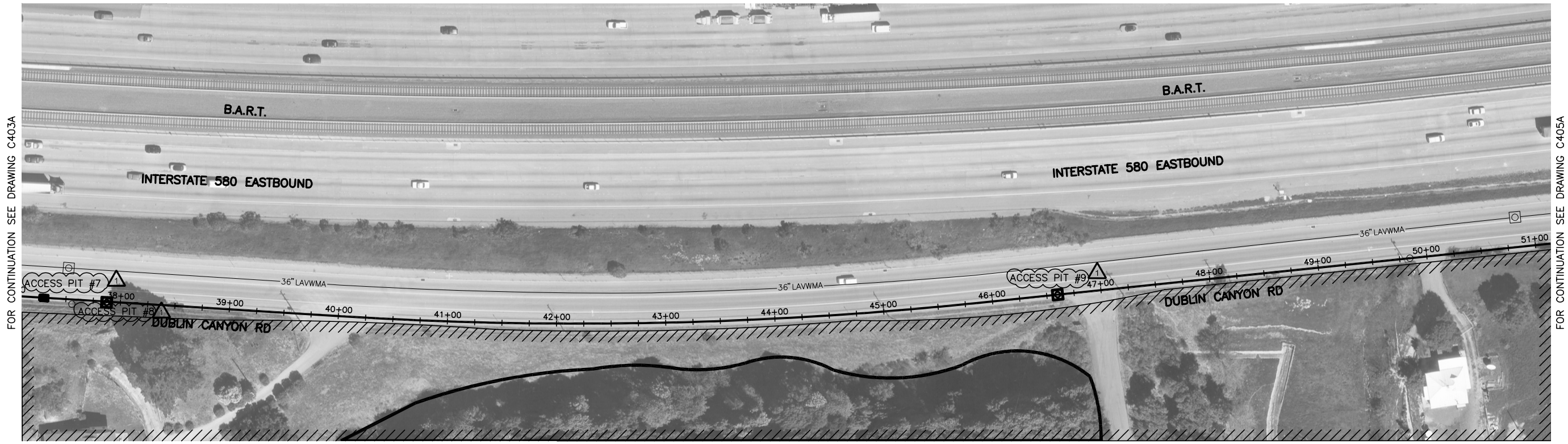
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 37+75 TO STA 50+75

SCALE: AS SHOWN
DRAWING NUMBER: C404
SHEET NUMBER: 11

DC-C404 | 11-10-00 | Cto | 1=1 | Filename: DC-C404 | Plot date: Jun 18, 2007-03:12:23pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-TOPO7 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: | lavwma.jpg



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

BIO-2 | BIO-2/BIO-3 | BIO-2

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

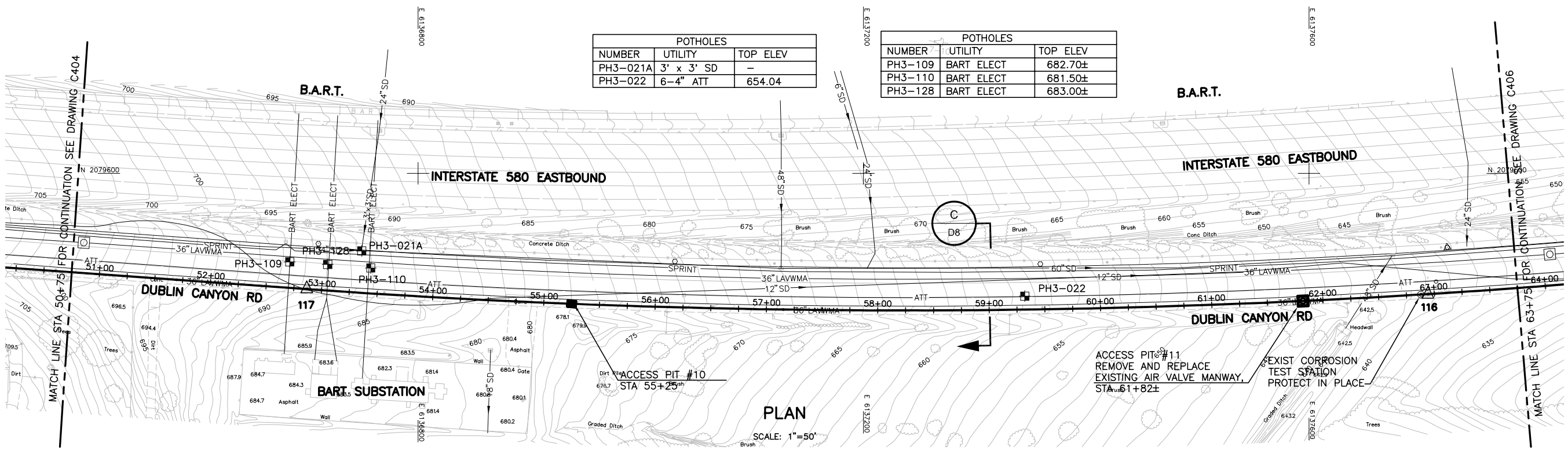
SPECIAL MITIGATIONS
STA 37+75 TO STA 50+75

SCALE: AS SHOWN
DRAWING NUMBER: **C404A**
SHEET NUMBER: 12

Filename: C404A | Plot date: Jun 18, 2007–03:29:11pm | Plotted by: zburke | Xref Filename: X–BORDER | X–SITE3 | x–proper | Image Filename: C50.tif | lavwma.jpg | 11–10–00 PC | 1st

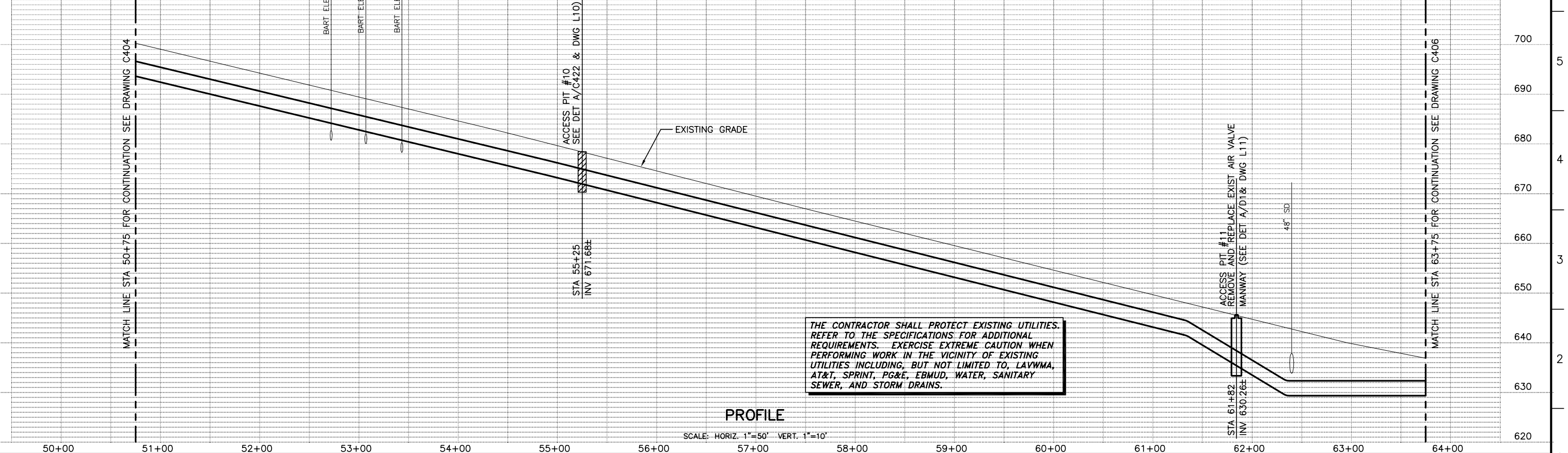
POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-021A	3' x 3' SD	–
PH3-022	6-4" ATT	654.04

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-109	BART ELECT	682.70±
PH3-110	BART ELECT	681.50±
PH3-128	BART ELECT	683.00±



PLAN

SCALE: 1"=50'



THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, WATER, SANITARY SEWER, AND STORM DRAINS.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

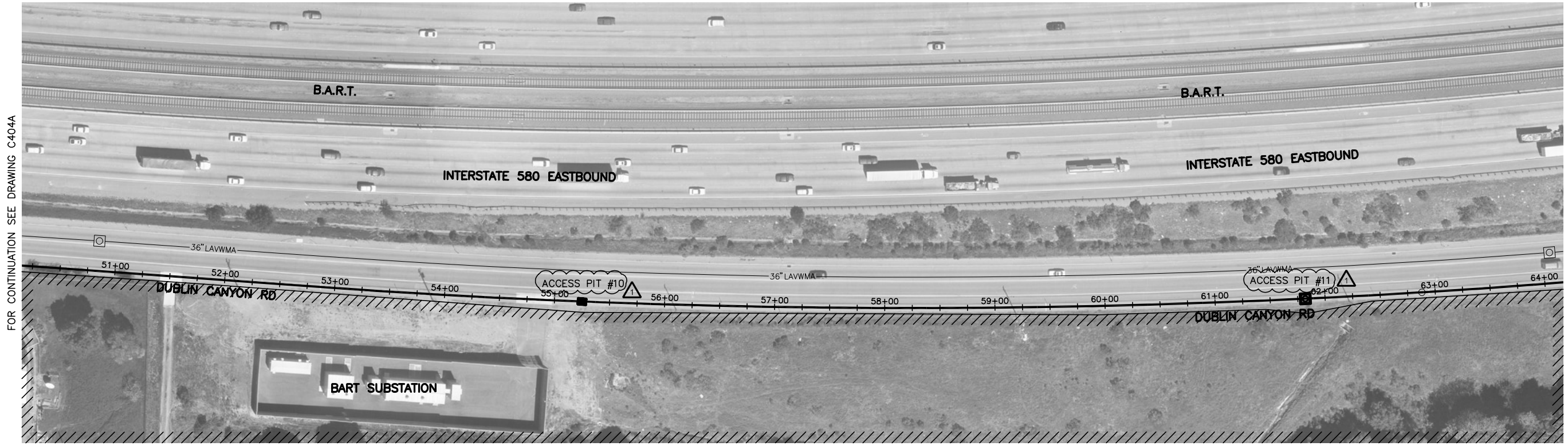
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 50+75 TO STA 63+75

SCALE: AS SHOWN
DRAWING NUMBER: **C405**
SHEET NUMBER: 13

Filename: DC-C405 | X-BORDER | X-TOP07 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: | lavwma.jpg
Filename: DC-C405 | Plot date: Jun 18, 2007-03:12:02pm | Plotted by: zburke | Xref Filename:
DC-C405 | 11-10-00 | Cto



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

BIO-2

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

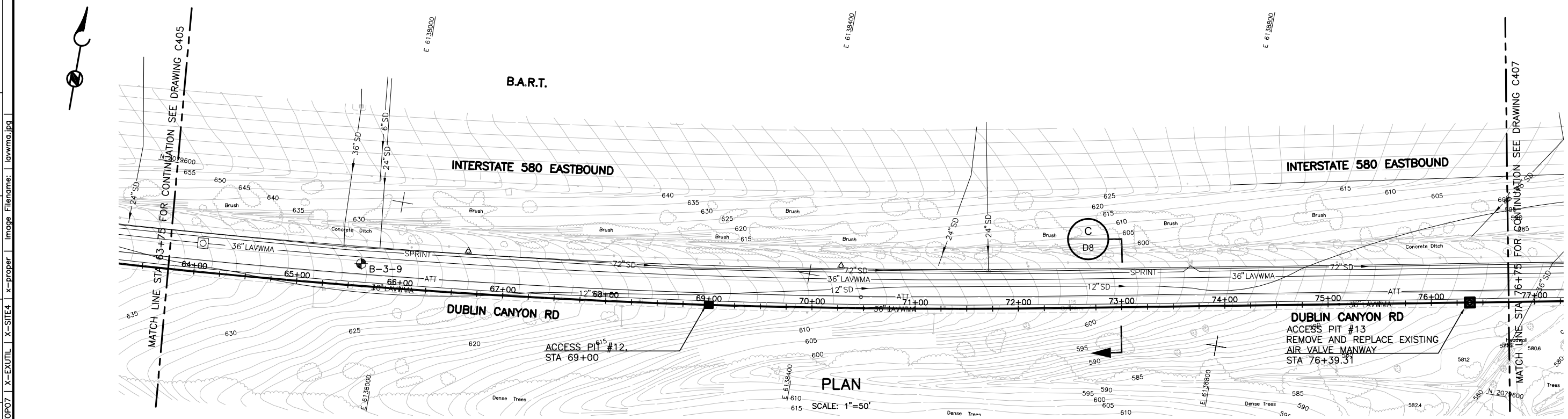
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

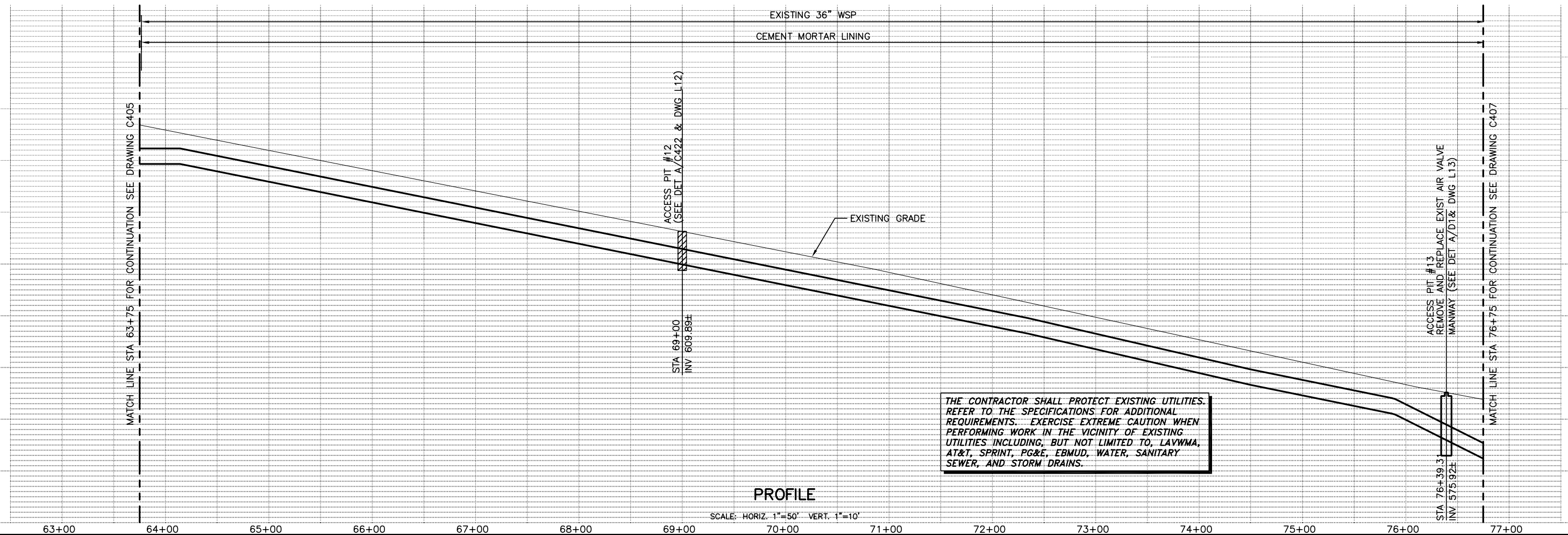
CIVIL

SPECIAL MITIGATIONS
STA 50+75 TO STA 63+75

SCALE: AS SHOWN
DRAWING NUMBER: **C405A**
SHEET NUMBER: 14

Filename: X-BORDER | X-SITE3 | x-proper | Image Filename: C51.tif | lavwma.jpg
Filename: C405A Plot date: Jun 18, 2007-03:28:25pm Plotted by: zburke. Xref Filename:
C404A 11-10-00 PC 1=1





Filename:	DC-C406
Plot date:	Jun 18, 2007-03:11:47pm
Plotted by:	zburke
Xref Filename:	lavwma.jpg
Image Filename:	
x-proper	
X-SITE4	
X-EXUTIL	
X-TOP07	
X-BORDER	
Ctb	11-10-00

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

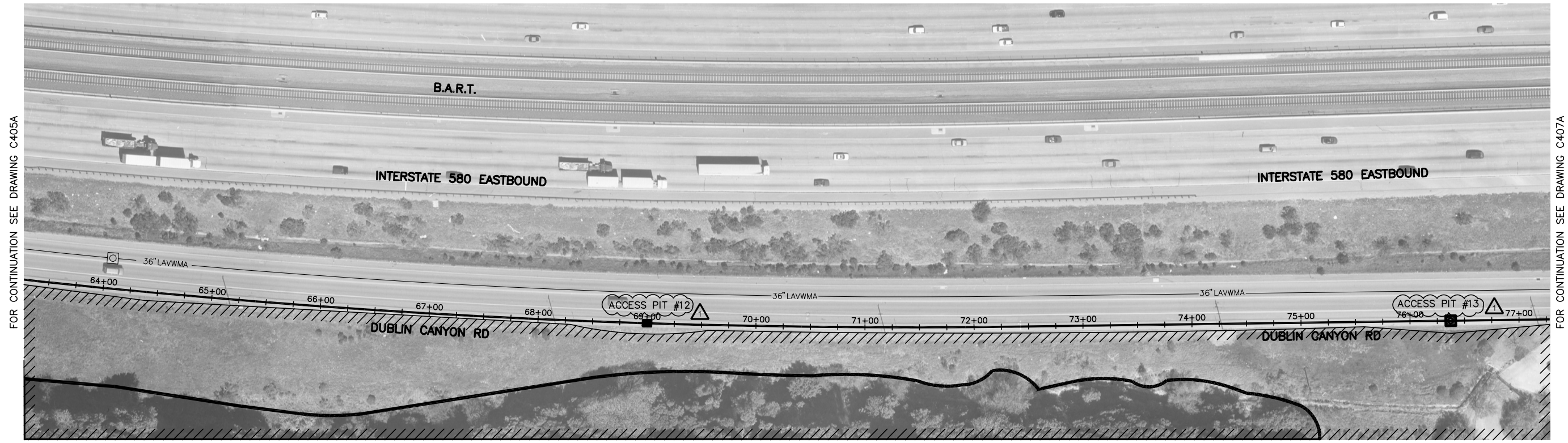
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 63+75 TO STA 76+75

SCALE: AS SHOWN
DRAWING NUMBER: **C406**
SHEET NUMBER: 15



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

BIO-2/BIO-3 | BIO-2

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

Filename: C406A | Plot date: Jun 18, 2007–03:28:13pm | Plotted by: zburke. Xref Filename: X–BORDER | X–SITE3 | X–proper | Image Filename: C52.tif | lavwma.jpg | 11–10–00 PC | 1=1 | C406A

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

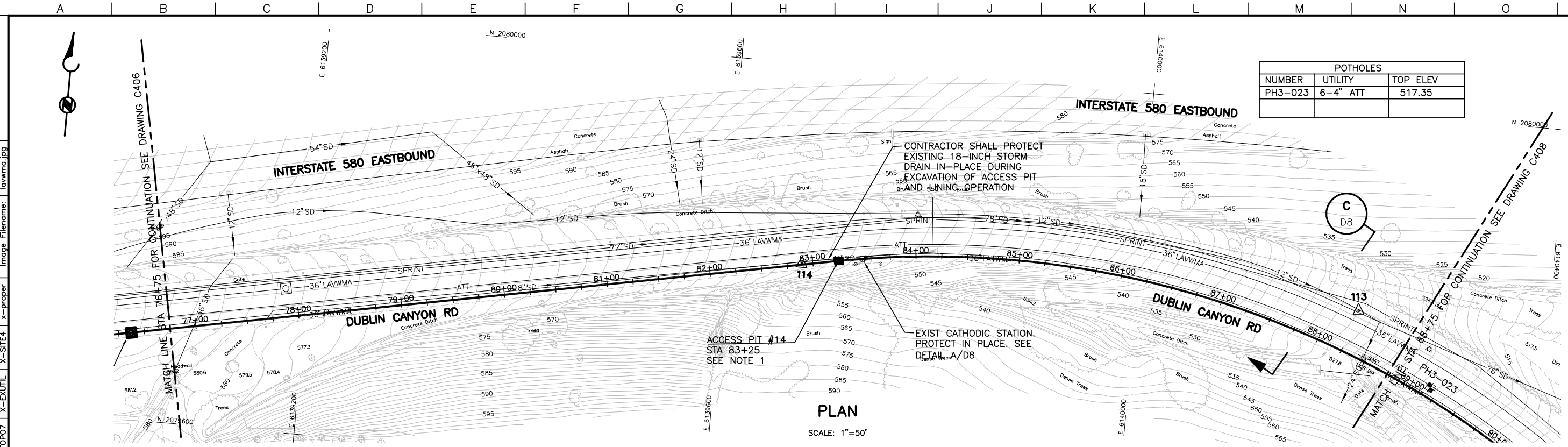
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPIAR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS STA 63+75 TO STA 76+75

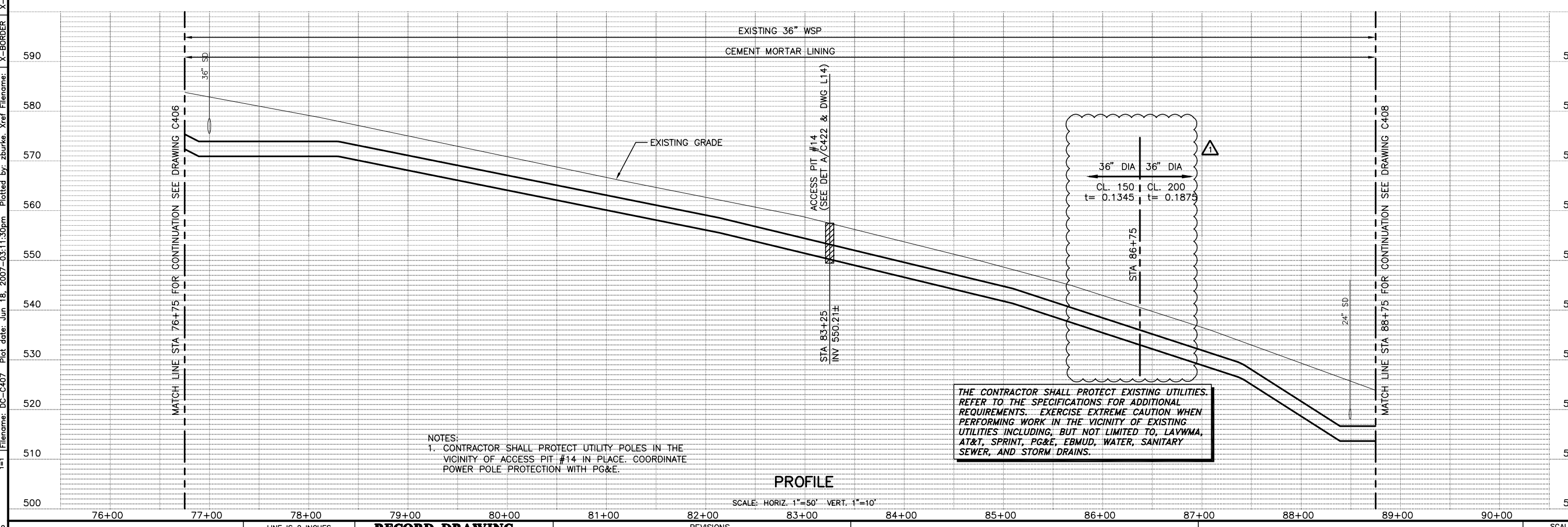
SCALE: AS SHOWN
DRAWING NUMBER: C406A
SHEET NUMBER: 16



PLAN

SCALE: 1"=50'

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-023	6-4" ATT	517.35



THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, WATER, SANITARY SEWER, AND STORM DRAINS.

NOTES:
1. CONTRACTOR SHALL PROTECT UTILITY POLES IN THE VICINITY OF ACCESS PIT #14 IN PLACE. COORDINATE POWER POLE PROTECTION WITH PG&E.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

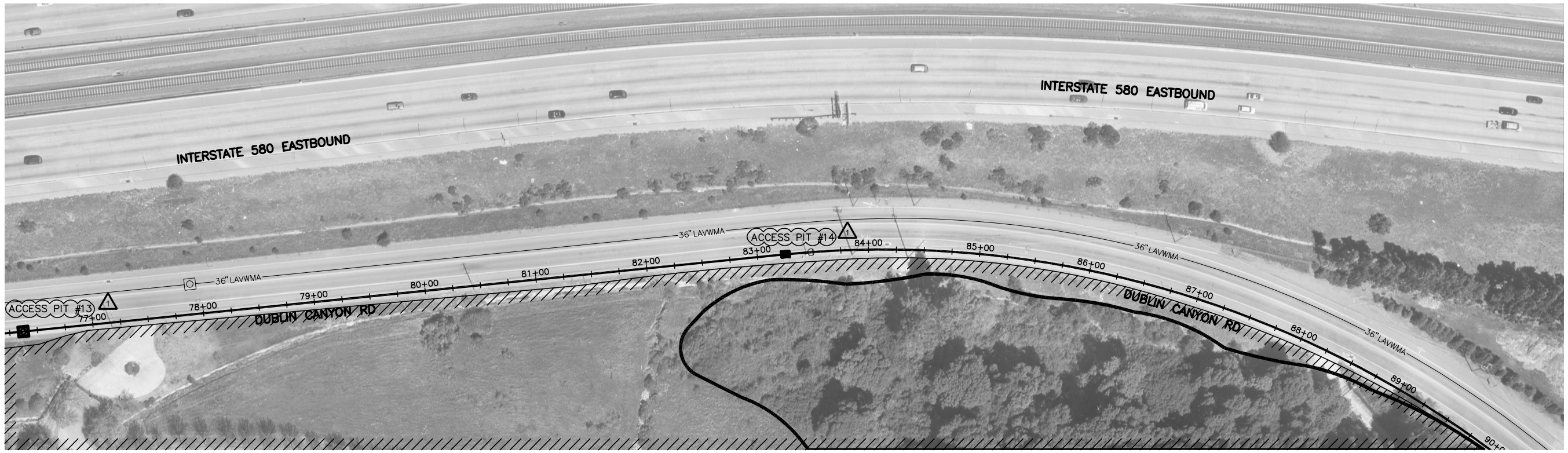
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 76+75 TO STA 88+75

SCALE: AS SHOWN
DRAWING NUMBER: **C407**
SHEET NUMBER: 17

DC-C407 | 11-10-00 | Cto | 1=1 | Filename: DC-C407 | Plot date: Jun 18, 2007-03:11:30pm | Plotted by: zburke | Xref Filename: X-BORDER | X-TOP07 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

BIO-2 | BIO-2/BIO-3

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

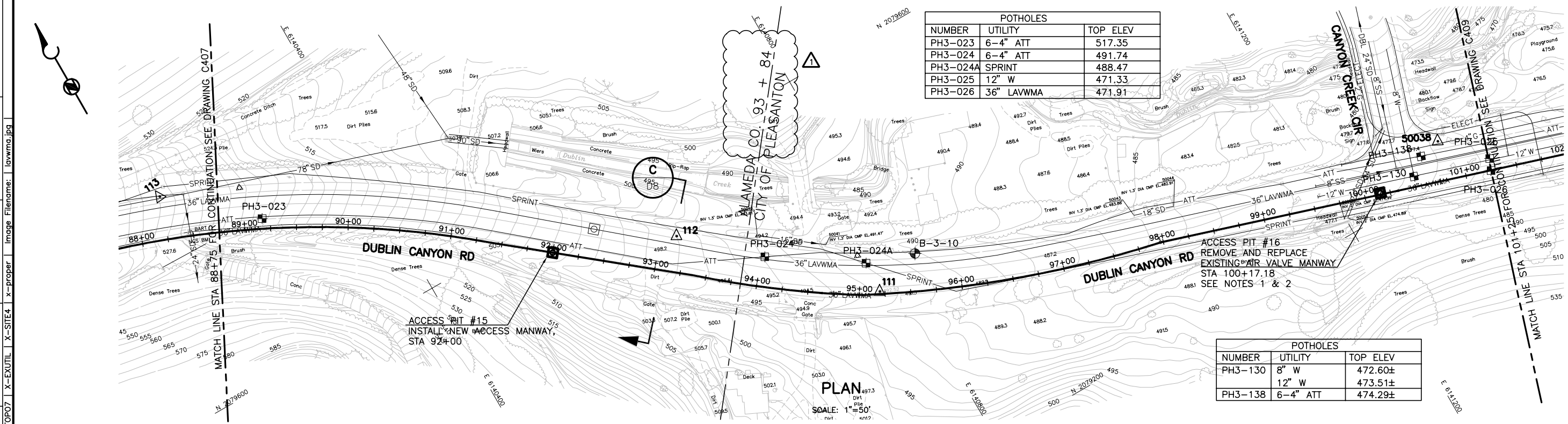
SPECIAL MITIGATIONS
STA 76+75 TO STA 88+75

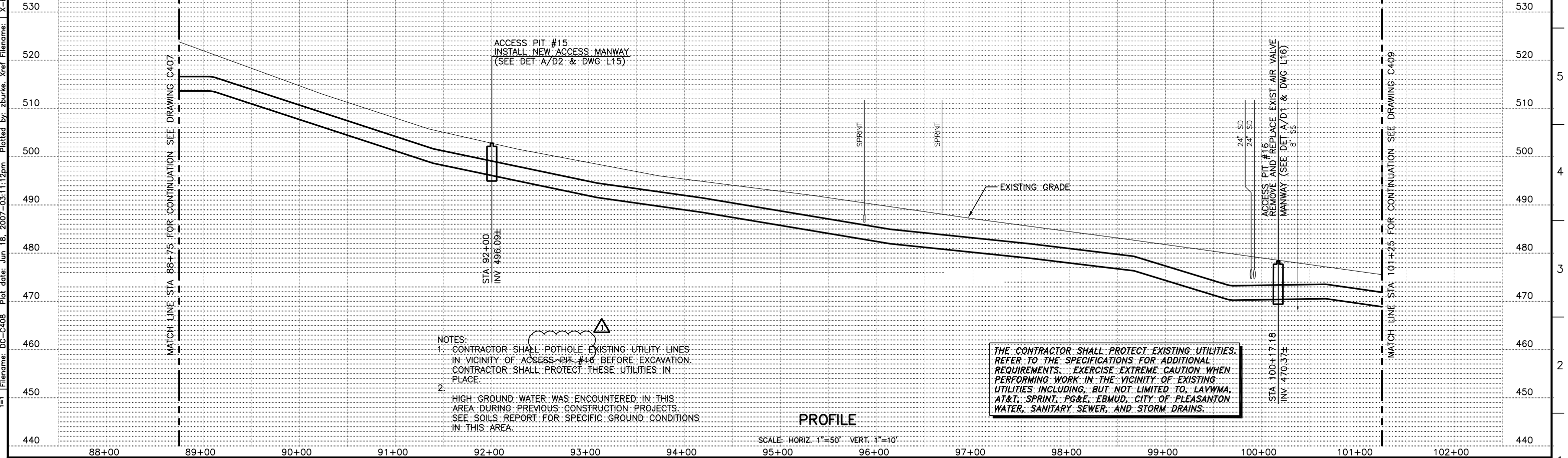
SCALE: AS SHOWN
DRAWING NUMBER: C407A
SHEET NUMBER: 18

C407A | 11-10-00 | PC | 1st1 | Filename: C407A_Plot date: Jun 18, 2007-03:27:33pm | Plotted by: zburke. Xref Filename: X-BORDER | X-SITE3 | X-proper | Image Filename: C53.tif | lavwma.jpg

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-023	6-4" ATT	517.35
PH3-024	6-4" ATT	491.74
PH3-024A	SPRINT	488.47
PH3-025	12" W	471.33
PH3-026	36" LAVWMA	471.91

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-130	8" W	472.60±
	12" W	473.51±
PH3-138	6-4" ATT	474.29±





NOTES:
1. CONTRACTOR SHALL POTHOLE EXISTING UTILITY LINES IN VICINITY OF ACCESS PIT #16 BEFORE EXCAVATION. CONTRACTOR SHALL PROTECT THESE UTILITIES IN PLACE.
2. HIGH GROUND WATER WAS ENCOUNTERED IN THIS AREA DURING PREVIOUS CONSTRUCTION PROJECTS. SEE SOILS REPORT FOR SPECIFIC GROUND CONDITIONS IN THIS AREA.

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

PROFILE
SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

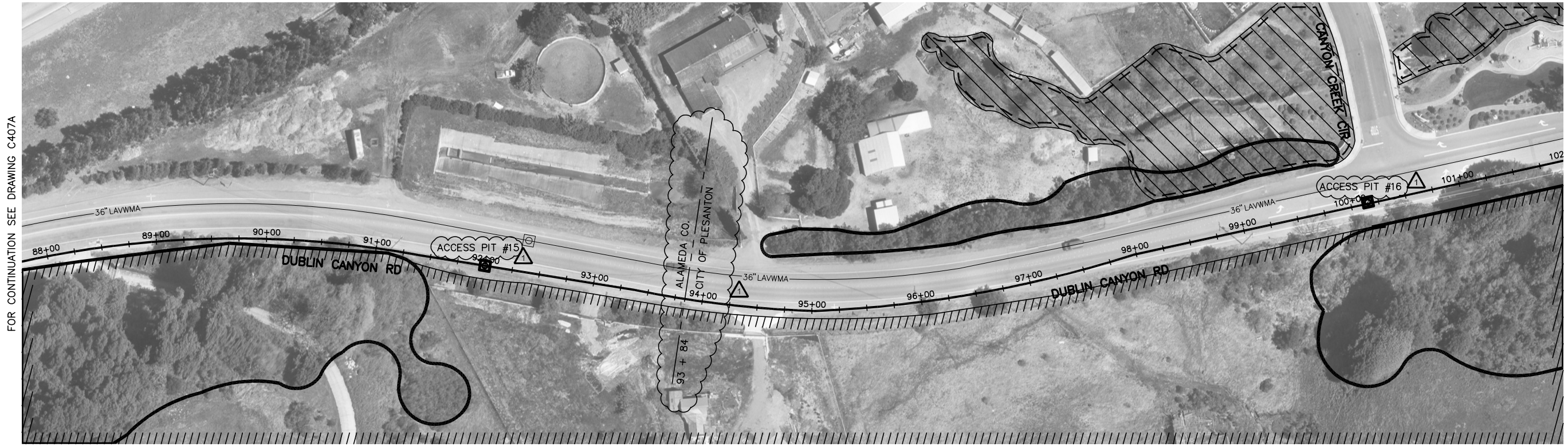
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 88+75 TO STA 101+25

SCALE: AS SHOWN
DRAWING NUMBER: **C408**
SHEET NUMBER: 19

DC-C408 | 11-10-00 | Cto | 1=1 | Filename: DC-C408 | Plot date: Jun 18, 2007-03:11:12pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-TOP07 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: | lavwma.jpg



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

W-8 W-8

BIO-2/BIO-3 BIO-2 BIO-1/BIO-2/BIO-3

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

Filename: C408A | Plot date: Jun 18, 2007–03:26:42pm | Plotted by: zburke | Xref Filename: X–BORDER | X–SITE3 | X–proper | Image Filename: C54.tif | lavwma.jpg | 1=1 | 11–10–00 PC | C408A

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

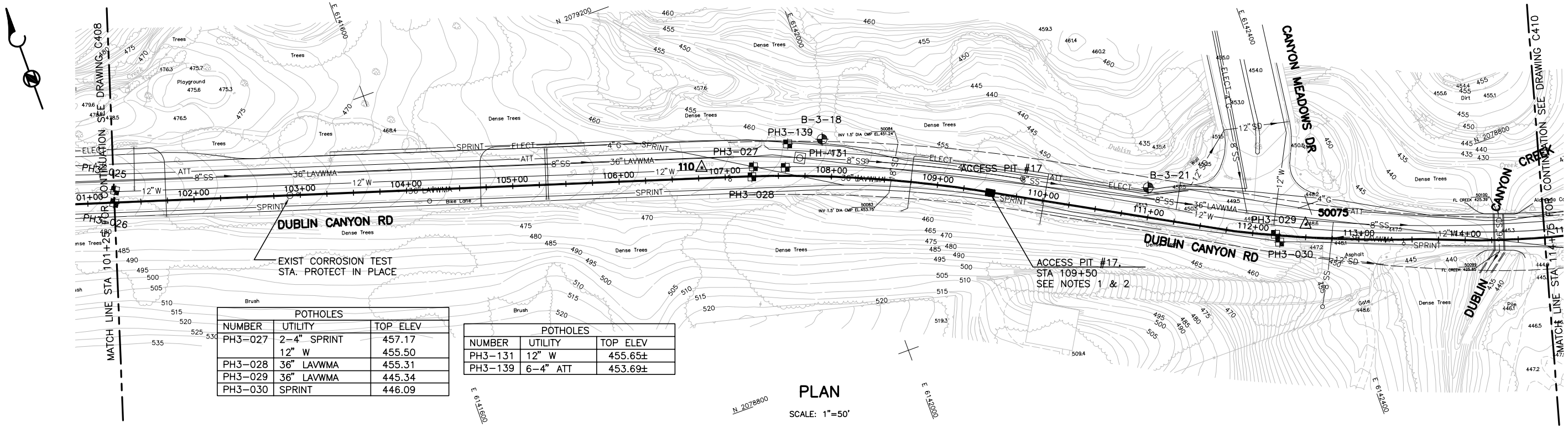
LIVERMORE–AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003–01

CIVIL

SPECIAL MITIGATIONS
STA 88+75 TO STA 101+25

SCALE: AS SHOWN
DRAWING NUMBER: **C408A**
SHEET NUMBER: 20

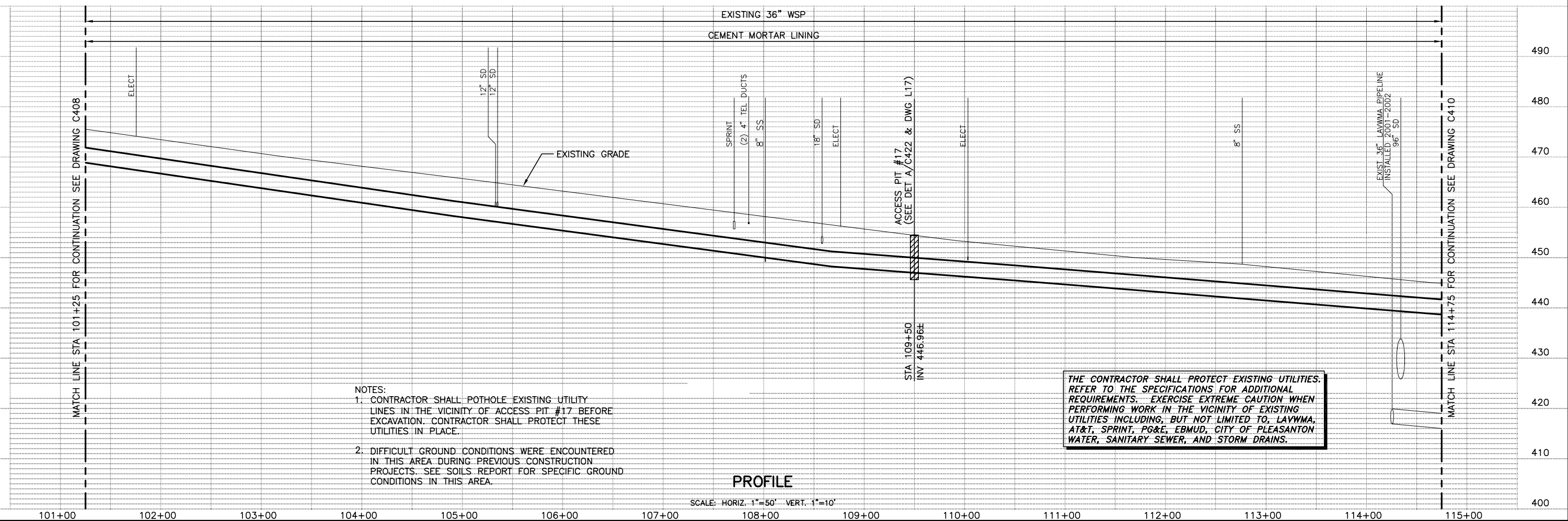


POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-027	2-4" SPRINT	457.17
	12" W	455.50
PH3-028	36" LAVWMA	455.31
PH3-029	36" LAVWMA	445.34
PH3-030	SPRINT	446.09

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-131	12" W	455.65±
PH3-139	6-4" ATT	453.69±

PLAN

SCALE: 1"=50'



NOTES:
1. CONTRACTOR SHALL POTHOLE EXISTING UTILITY LINES IN THE VICINITY OF ACCESS PIT #17 BEFORE EXCAVATION. CONTRACTOR SHALL PROTECT THESE UTILITIES IN PLACE.
2. DIFFICULT GROUND CONDITIONS WERE ENCOUNTERED IN THIS AREA DURING PREVIOUS CONSTRUCTION PROJECTS. SEE SOILS REPORT FOR SPECIFIC GROUND CONDITIONS IN THIS AREA.

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

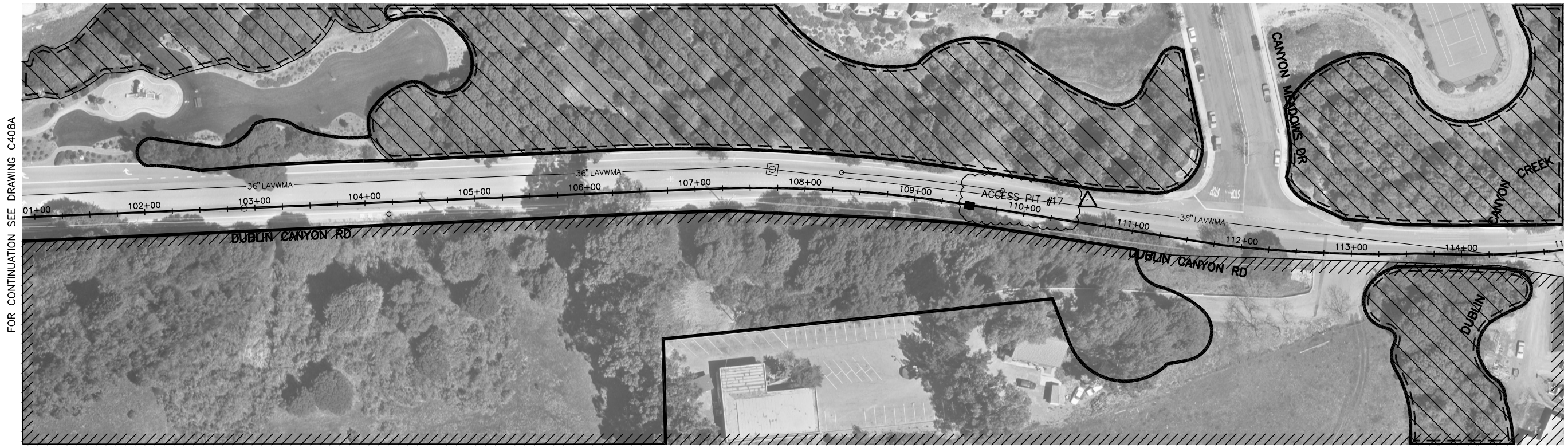
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 101+25 TO STA 114+75

SCALE: AS SHOWN
DRAWING NUMBER: **C409**
SHEET NUMBER: 21

DC-C409 | 11-10-00 | Cto | 1st | Filename: DC-C409 | Plot date: Jun 18, 2007-03:10:54pm | Plotted by: zburke | Xref Filename: X-BORDER | X-TOP07 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

W-8

W-8

SW-1

BIO-1/BIO-2/BIO-3

BIO-2

BIO-1/BIO-2/BIO-3

SW-1

CULT-1

LEGEND:

- WETLAND OR WATER-ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED-LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS
STA 101+25 TO STA 114+75

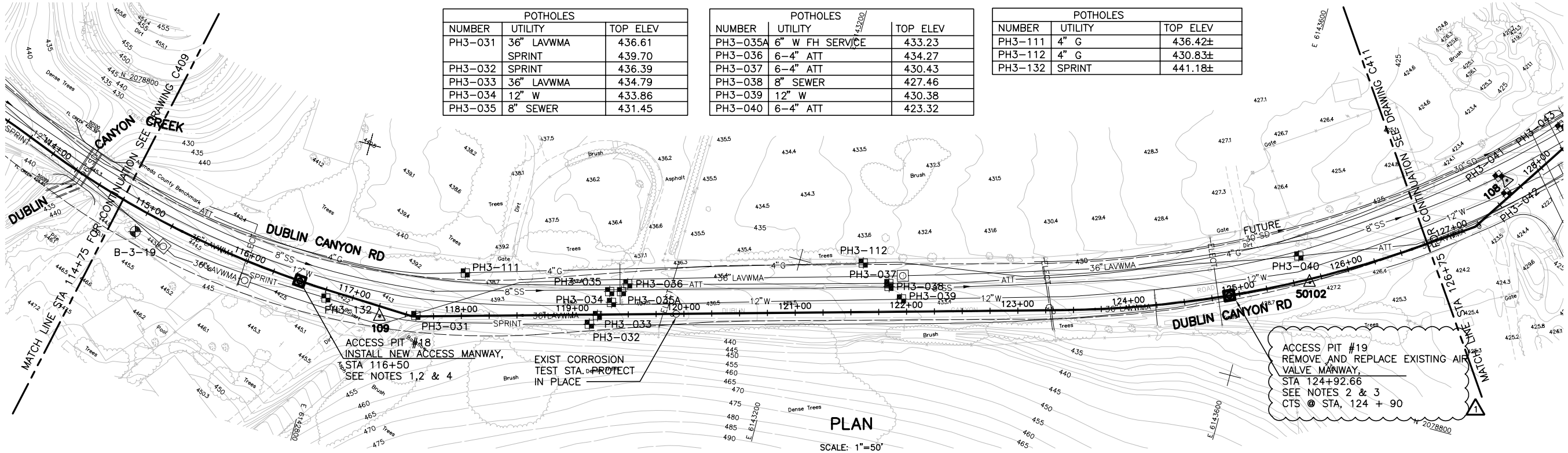
SCALE: AS SHOWN
DRAWING NUMBER: C409A
SHEET NUMBER: 22

C409A | 11-10-00 | PC | 1=1 | Filename: C409A | Plot date: Jun 18, 2007-03:25:01pm | Plotted by: zburke | Xref Filename: X-BORDER | X-SITE3 | x-proper | Image Filename: | C55.tif | lavwma.jpg

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-031	36" LAVWMA	436.61
	SPRINT	439.70
PH3-032	SPRINT	436.39
PH3-033	36" LAVWMA	434.79
PH3-034	12" W	433.86
PH3-035	8" SEWER	431.45

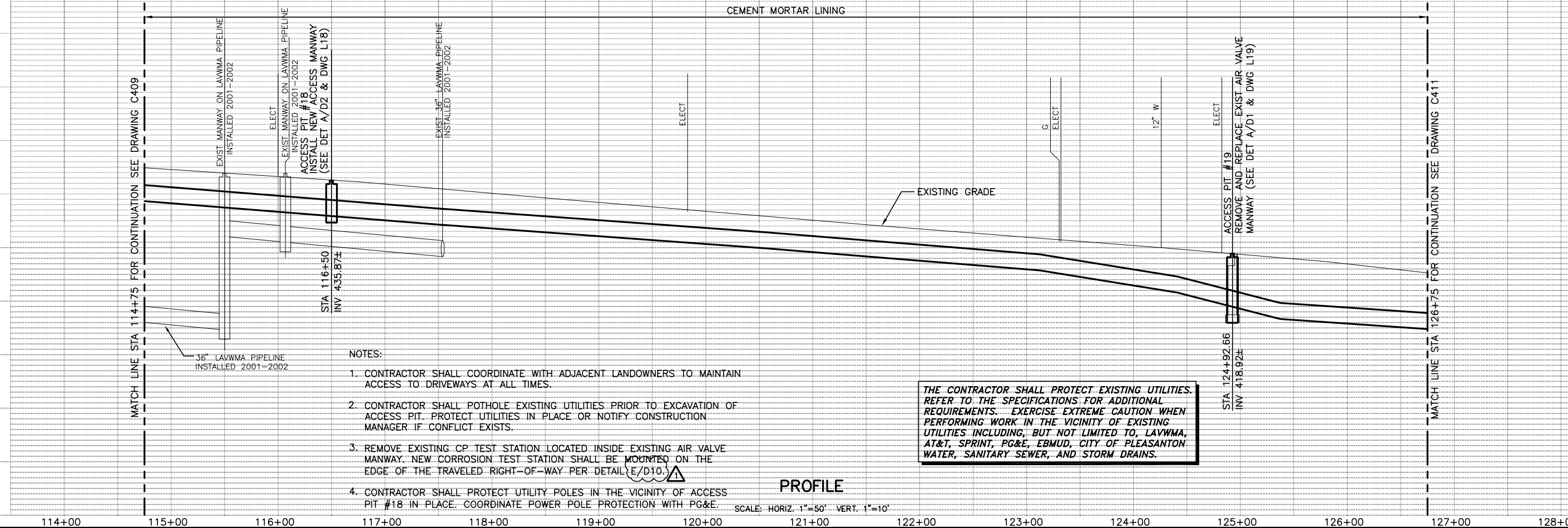
POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-035A	6" W FH SERVICE	433.23
PH3-036	6-4" ATT	434.27
PH3-037	6-4" ATT	430.43
PH3-038	8" SEWER	427.46
PH3-039	12" W	430.38
PH3-040	6-4" ATT	423.32

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-111	4" G	436.42±
PH3-112	4" G	430.83±
PH3-132	SPRINT	441.18±



PLAN

SCALE: 1"=50'



PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ADJACENT LANDOWNERS TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
2. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES PRIOR TO EXCAVATION OF ACCESS PIT. PROTECT UTILITIES IN PLACE OR NOTIFY CONSTRUCTION MANAGER IF CONFLICT EXISTS.
3. REMOVE EXISTING CP TEST STATION LOCATED INSIDE EXISTING AIR VALVE MANWAY. NEW CORROSION TEST STATION SHALL BE MOUNTED ON THE EDGE OF THE TRAVELED RIGHT-OF-WAY PER DETAIL E/D10. (1)
4. CONTRACTOR SHALL PROTECT UTILITY POLES IN THE VICINITY OF ACCESS PIT #18 IN PLACE. COORDINATE POWER POLE PROTECTION WITH PG&E.

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: — DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 114+75 TO STA 126+75

SCALE: AS SHOWN
DRAWING NUMBER: C410
SHEET NUMBER: 23

DC-C410 11-10-00 Cto | 1=1 | Filename: DC-C410 | X-BORDER | X-TOP07 | X-TOP08 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg | Plot date: Jun 18, 2007-03:10:35pm | Plotted by: zburke | Xref



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

W-8

W-8

BIO-1/BIO-2/BIO-3

BIO-2/BIO-3

BIO-2

SW-1

CULT-1

LEGEND:

WETLAND OR WATER–ASSOCIATED HABITAT

SPECIAL STATUS BATS, RAPTORS AND PASSERINES

CALIFORNIA RED–LEGGED FROG

ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

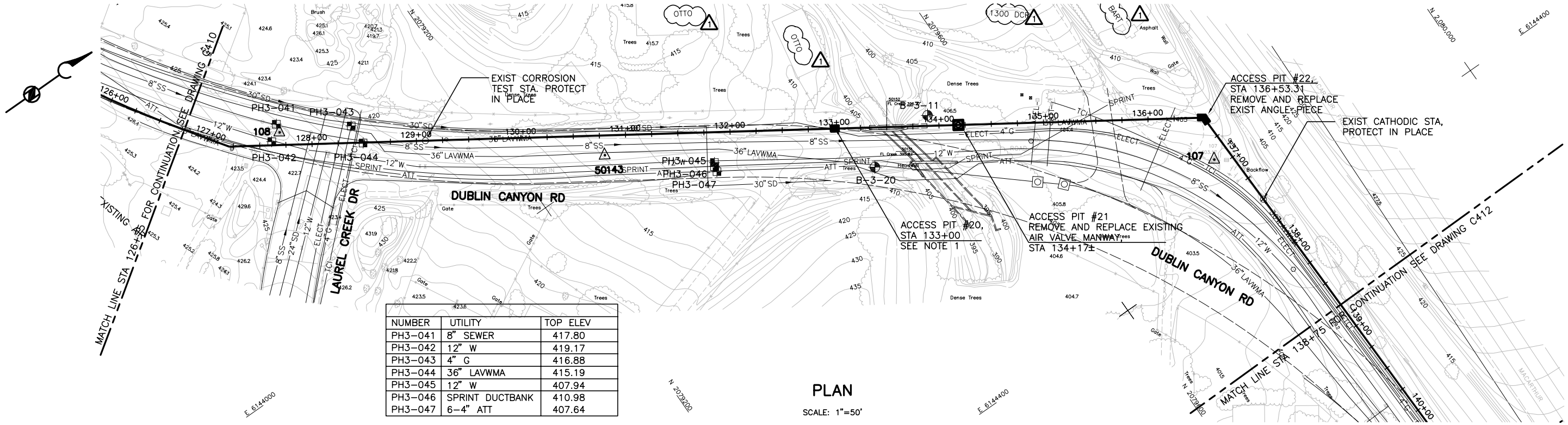
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS STA 114+75 TO STA 126+75

SCALE: AS SHOWN
DRAWING NUMBER: C410A
SHEET NUMBER: 24

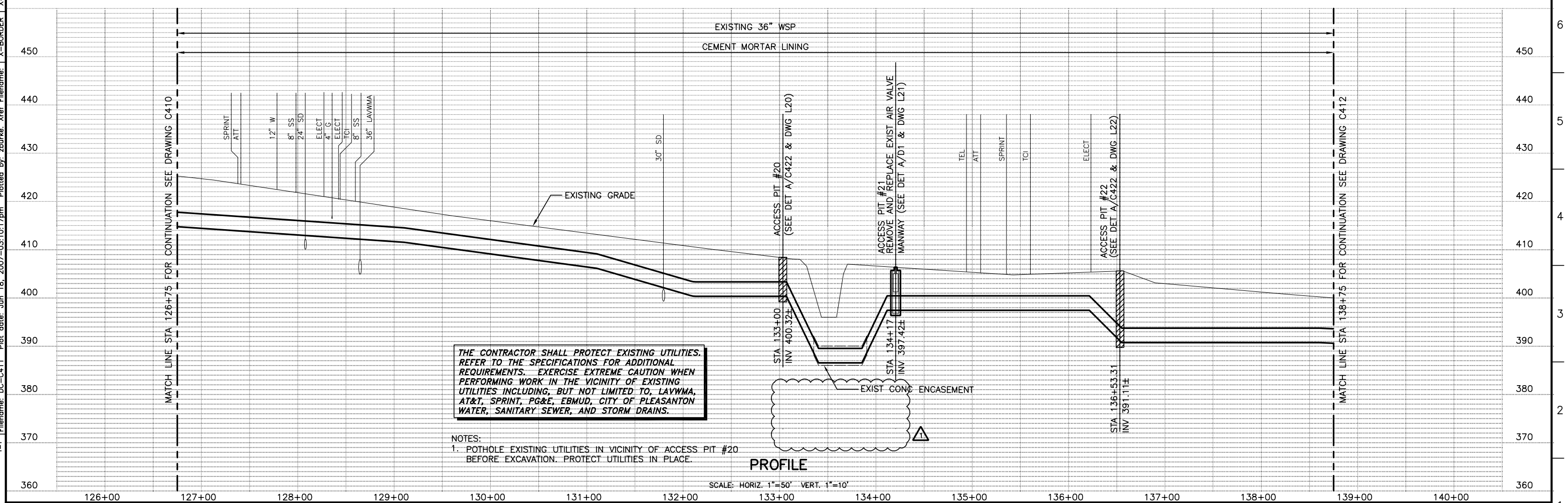
Filename: C410A | X-BORDER | X-SITE3 | x-proper | Image Filename: C56.tif | lavwma.jpg | Plotted by: zburke. Xref Filename: | Plot date: Jun 18, 2007-03:24:20pm | Filename: C410A | 1=1 | 11-10-00 PC



NUMBER	UTILITY	TOP ELEV
PH3-041	8" SEWER	417.80
PH3-042	12" W	419.17
PH3-043	4" G	416.88
PH3-044	36" LAVWMA	415.19
PH3-045	12" W	407.94
PH3-046	SPRINT DUCTBANK	410.98
PH3-047	6-4" ATT	407.64

PLAN

SCALE: 1"=50'



THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

NOTES:
1. POTHOLE EXISTING UTILITIES IN VICINITY OF ACCESS PIT #20 BEFORE EXCAVATION. PROTECT UTILITIES IN PLACE.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ — DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 126+75 TO STA 138+75

SCALE: AS SHOWN
DRAWING NUMBER: C411
SHEET NUMBER: 25

DC-C411 11-10-00 Cto | 1=1 | Filename: DC-C411 | Plot date: Jun 18, 2007-03:10:17pm | Plotted by: zburke | Xref Filename: X-BORDER | X-TOPOB | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

W-8

SW-1

BIO-2 | BIO-2/BIO-3 | BIO-1/BIO-2/BIO-3 | BIO-2/ BIO-3 | BIO-2

CULT-1

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

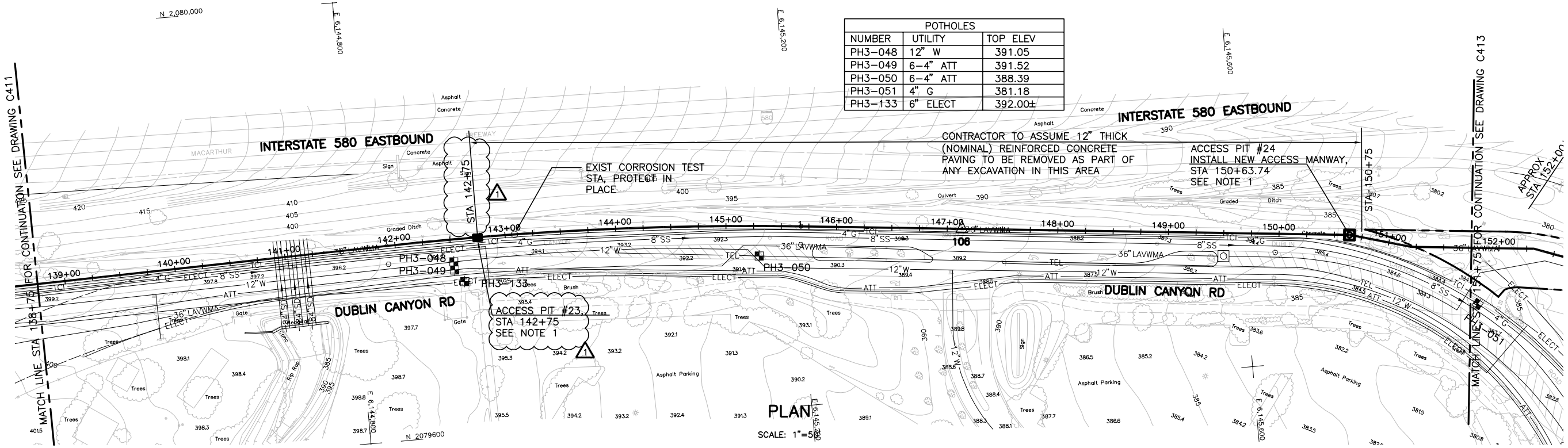
CIVIL

SPECIAL MITIGATIONS
STA 126+75 TO STA 138+75

SCALE: AS SHOWN
DRAWING NUMBER: C411A
SHEET NUMBER: 26

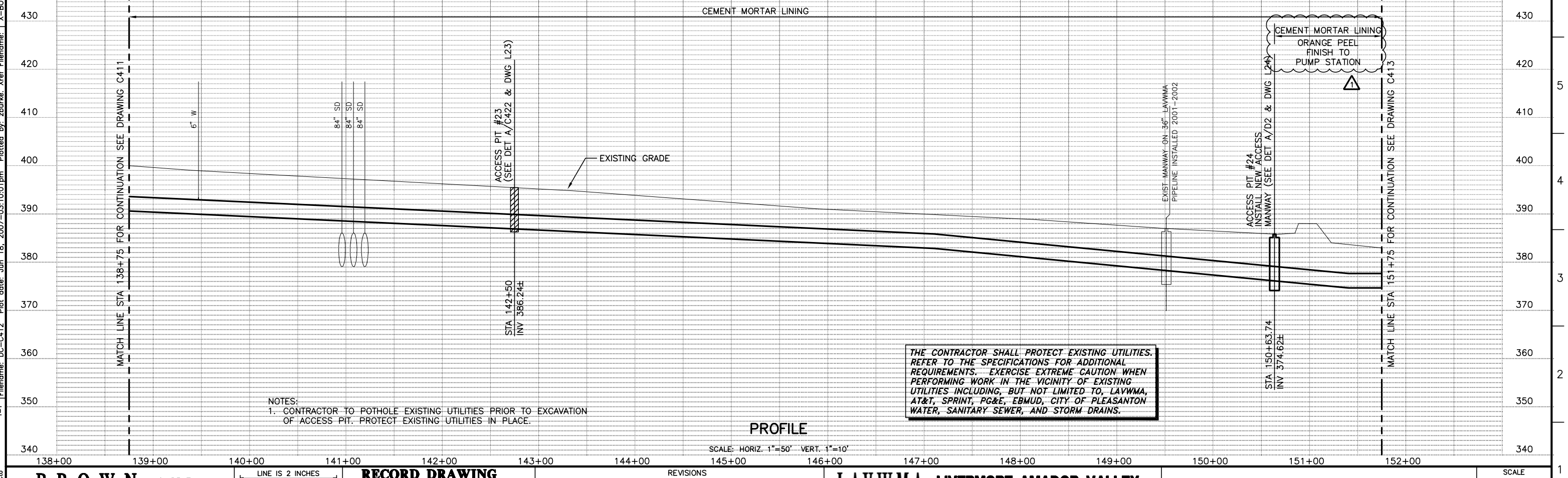
Filename: C411A Plot date: Jun 18, 2007–03:23:39pm Plotted by: zburke Xref Filename: X–BORDER | X–SITE3 | X–proper | Image Filename: | C57.tif | lavwma.jpg | 1=1 | 11–10–00 PC | C411A

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-048	12" W	391.05
PH3-049	6-4" ATT	391.52
PH3-050	6-4" ATT	388.39
PH3-051	4" G	381.18
PH3-133	6" ELECT	392.00±



PLAN

SCALE: 1"=50'



NOTES:
1. CONTRACTOR TO POTHOLE EXISTING UTILITIES PRIOR TO EXCAVATION OF ACCESS PIT. PROTECT EXISTING UTILITIES IN PLACE.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 138+75 TO STA 151+75

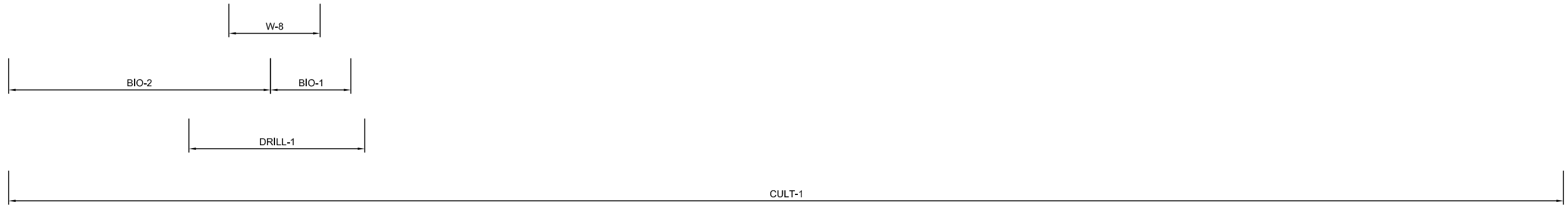
SCALE: AS SHOWN
DRAWING NUMBER: **C412**
SHEET NUMBER: 27

DC-C412 | 11-10-00 | Cto | 1=1 | Filename: DC-C412 | Plot date: Jun 18, 2007-03:10:01pm | Plotted by: zburke | Xref Filename: X-BORDER | X-TOPOB | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'



LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

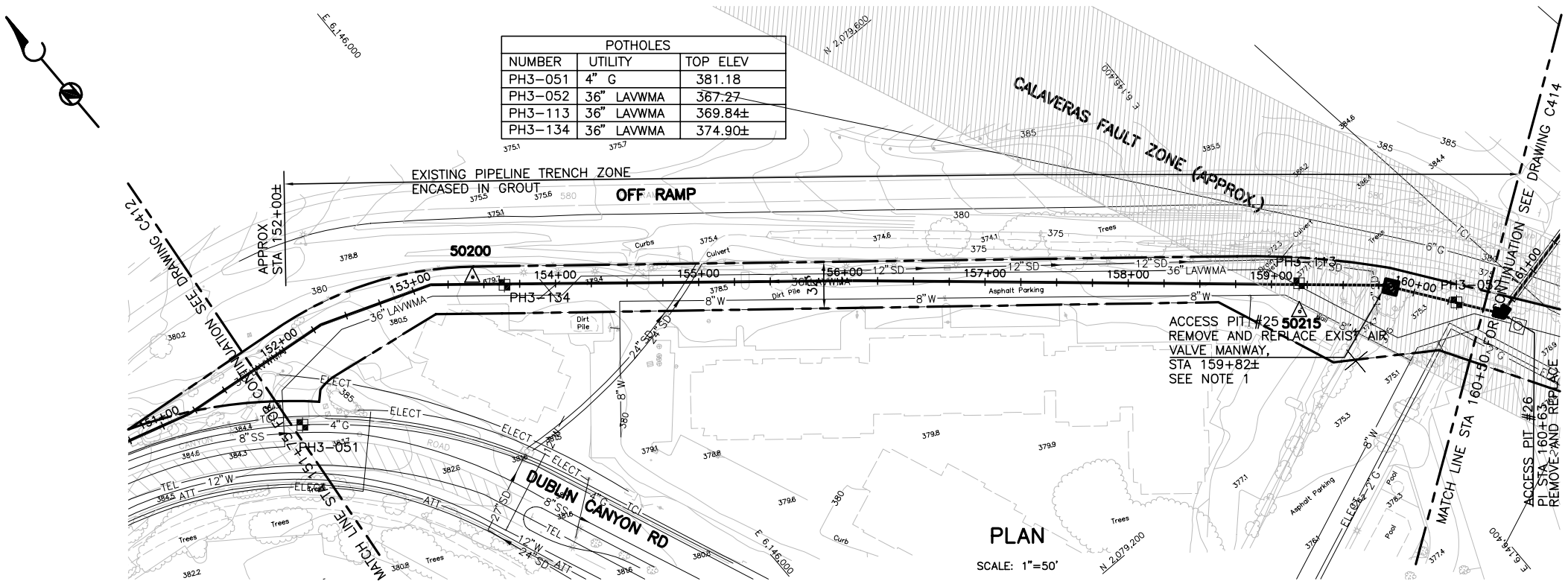
CIVIL

SPECIAL MITIGATIONS
STA 138+75 TO STA 151+75

SCALE: AS SHOWN
DRAWING NUMBER: **C412A**
SHEET NUMBER: 28

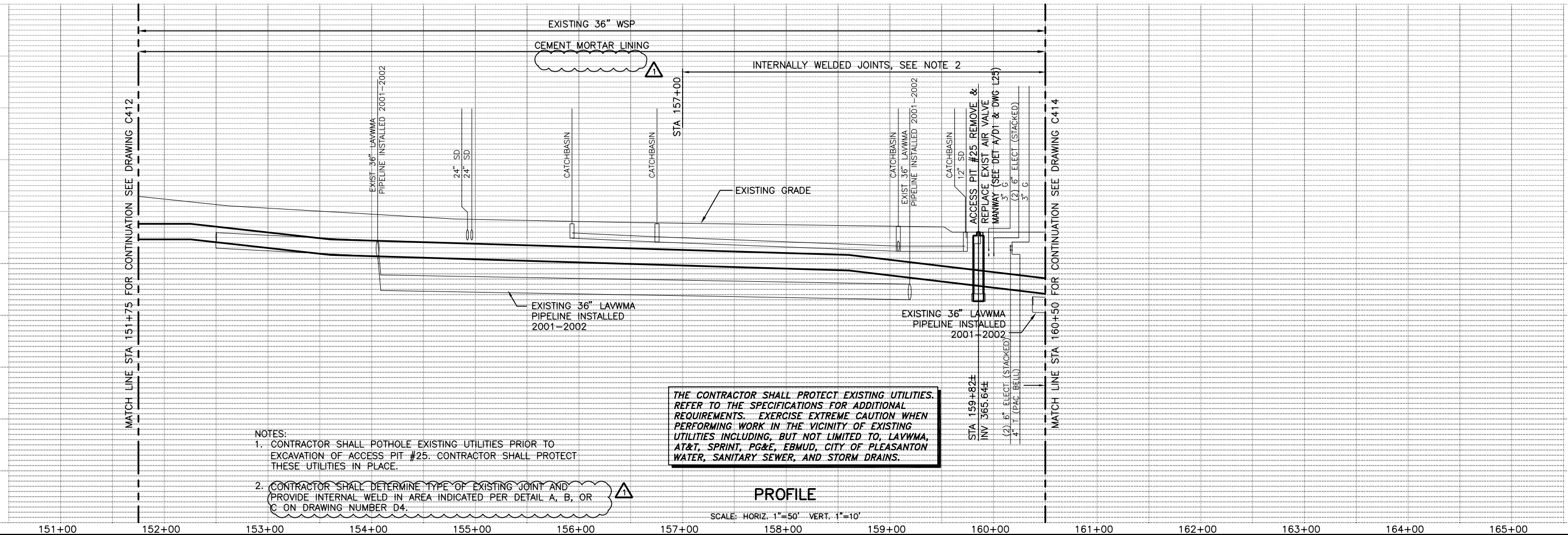
Filename: C412A Plot date: Jun 18, 2007–03:21:50pm Plotted by: zburke Xref Filename: X–BORDER | X–SITE3 | X–proper | Image Filename: C58.tif | lavwma.jpg | 1=1 | 11–10–00 PC | C412A

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3–051	4" G	381.18
PH3–052	36" LAVWMA	367.27
PH3–113	36" LAVWMA	369.84±
PH3–134	36" LAVWMA	374.90±



PLAN

SCALE: 1"=50'



PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

NOTES:
1. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES PRIOR TO EXCAVATION OF ACCESS PIT #25. CONTRACTOR SHALL PROTECT THESE UTILITIES IN PLACE.
2. CONTRACTOR SHALL DETERMINE TYPE OF EXISTING JOINT AND PROVIDE INTERNAL WELD IN AREA INDICATED PER DETAIL A, B, OR C ON DRAWING NUMBER D4. ⚠1

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	⚠1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

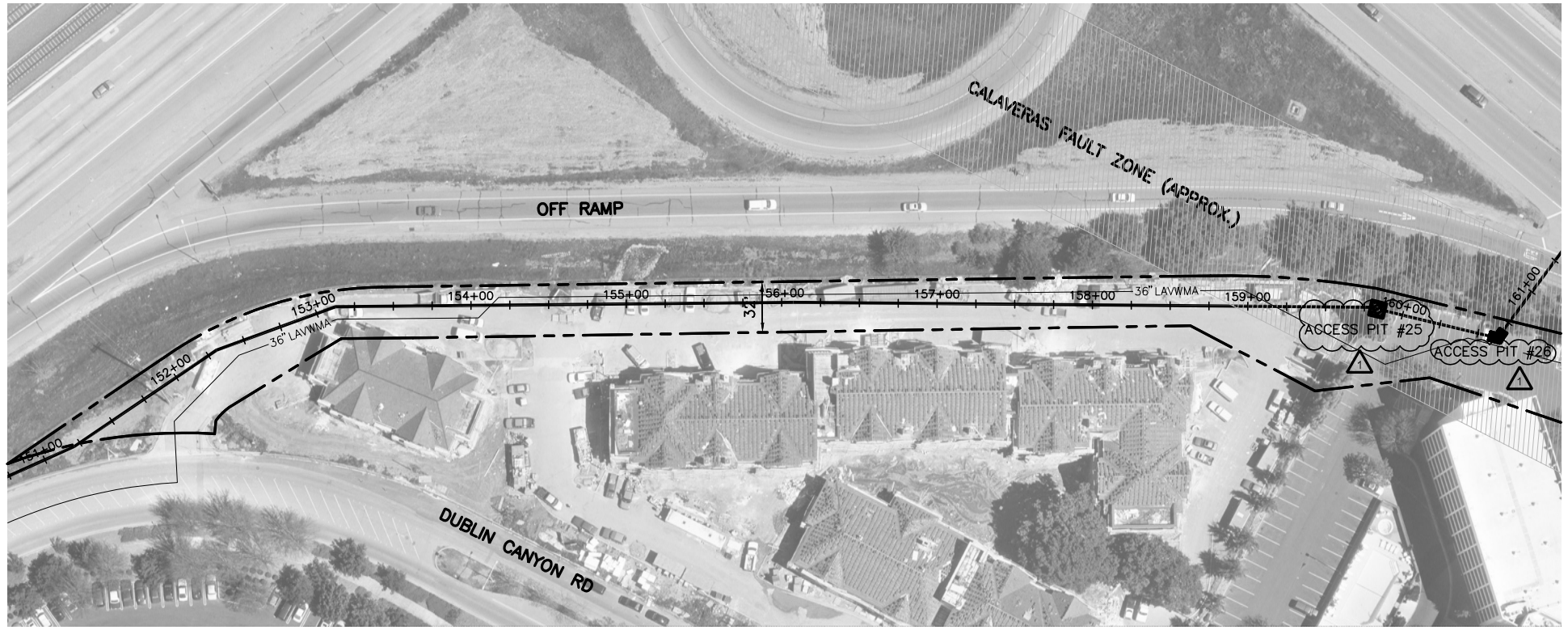
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 151+75 TO STA 160+50

SCALE: AS SHOWN
DRAWING NUMBER: **C413**
SHEET NUMBER: 29

DC–C413 11–10–00 Cto | 1=1 | Filename: DC–C413 | X–BORDER | X–TOPOB | X–EXUTIL | X–SITE4 | x–proper | Image Filename: lavwma.jpg | Plot date: Jun 18, 2007–03:09:45pm | Plotted by: zburke | Xref Filename: 1 | X–BORDER



FOR CONTINUATION SEE DRAWING C412A

FOR CONTINUATION SEE DRAWING C414A

AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

CULT-1

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

Filename: C413A | X-BORDER | X-SITE3 | X-PROPER | Image Filename: C59.tif | lavwma.jpg
Plot date: Jun 18, 2007–03:21:11pm | Plotted by: zburke | Xref Filename:
11-10-00 PC | 1=1

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

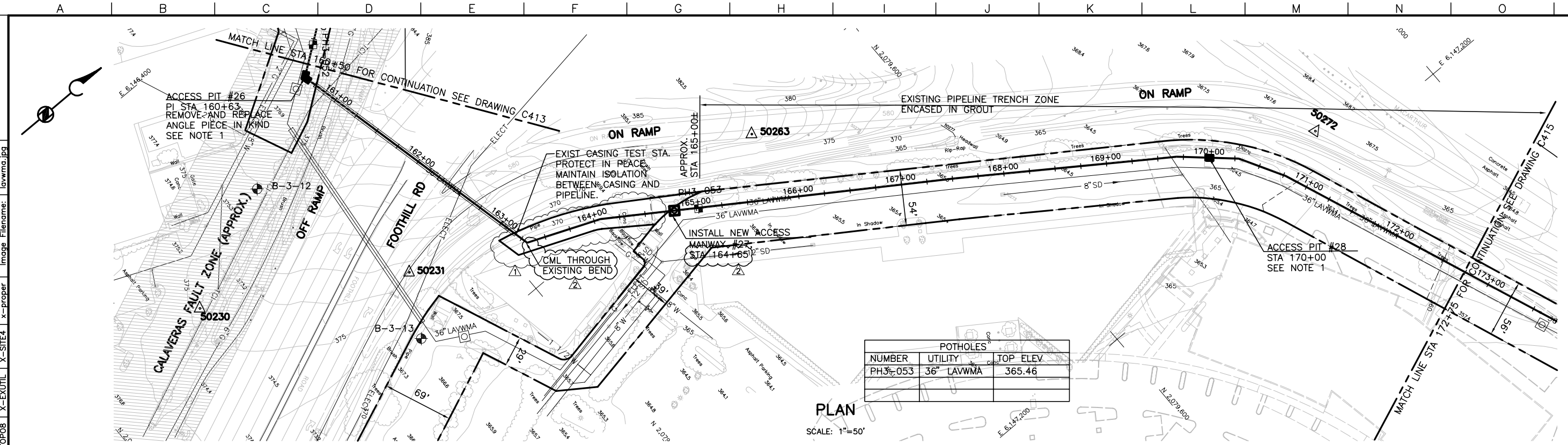
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

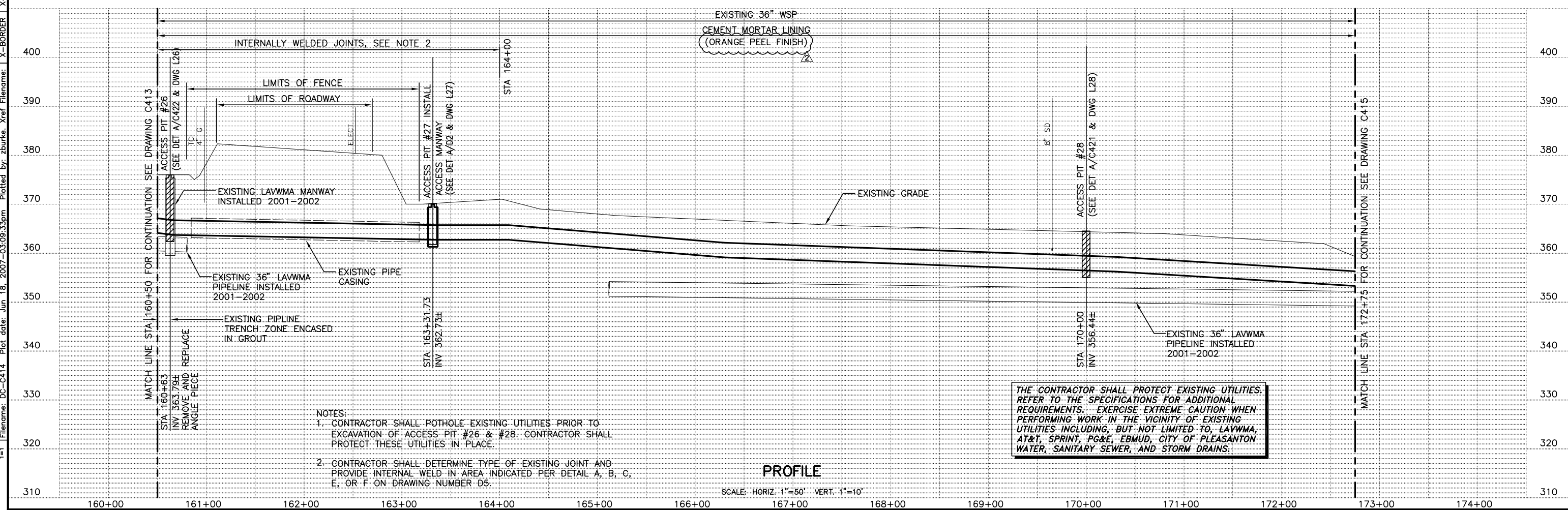
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS
STA 151+75 TO STA 160+50

SCALE: AS SHOWN
DRAWING NUMBER: C413A
SHEET NUMBER: 30





NOTES:
1. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES PRIOR TO EXCAVATION OF ACCESS PIT #26 & #28. CONTRACTOR SHALL PROTECT THESE UTILITIES IN PLACE.
2. CONTRACTOR SHALL DETERMINE TYPE OF EXISTING JOINT AND PROVIDE INTERNAL WELD IN AREA INDICATED PER DETAIL A, B, C, E, OR F ON DRAWING NUMBER D5.

PROFILE
SCALE: HORIZ. 1"=50' VERT. 1"=10'

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)
FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	FWB	01/04	CWJ
VAR	2	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

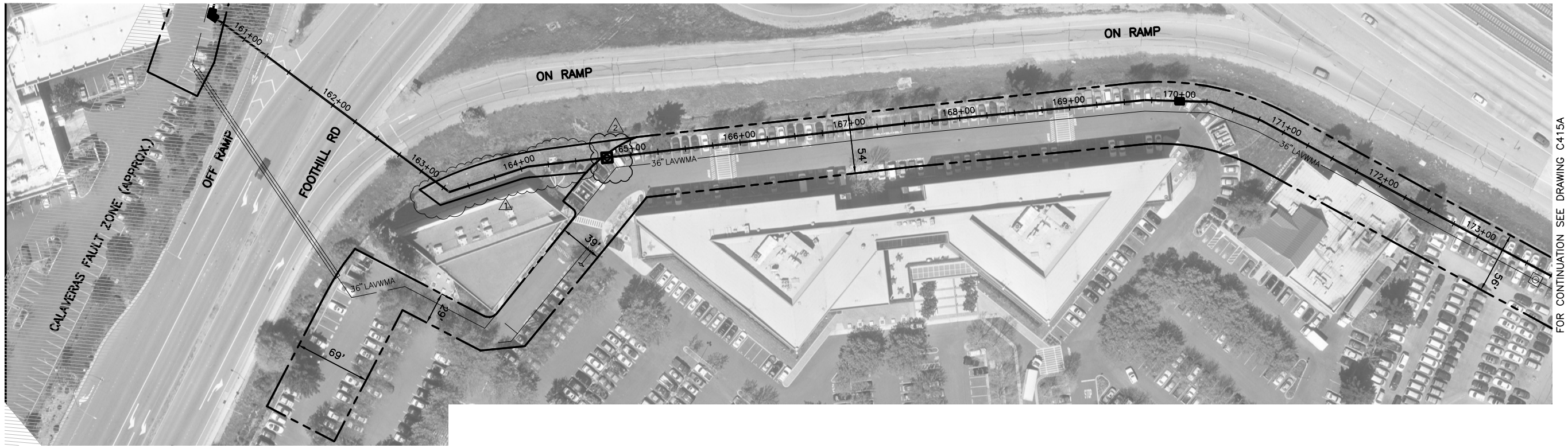
CIVIL

PLAN AND PROFILE
STA 160+50 TO STA 172+75

SCALE: AS SHOWN
DRAWING NUMBER: C414
SHEET NUMBER: 31

DC-C414 11-10-00 Cto | 1=1 | Filename: DC-C414 | Plot date: Jun 18, 2007-03:09:33pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-TOPOB | X-EXUTIL | X-SITE4 | x-proper | Image Filename: | lavwma.jpg

FOR CONTINUATION SEE DRAWING C413A



FOR CONTINUATION SEE DRAWING C415A

AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

CULT-1

LEGEND:

- WETLAND OR WATER-ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED-LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

Filename: C414A | Plot date: Jun 18, 2007-03:19:37pm | Plotted by: zburke | Xref Filename: X-BORDER | X-SITE3 | X-PROPER | Image Filename: C60.tif | lavwma.jpg | PC 1-03 1=1

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	FWB	1/04	CWJ
VAR	2	RECORD DRAWING	ZB	5/06	CWJ

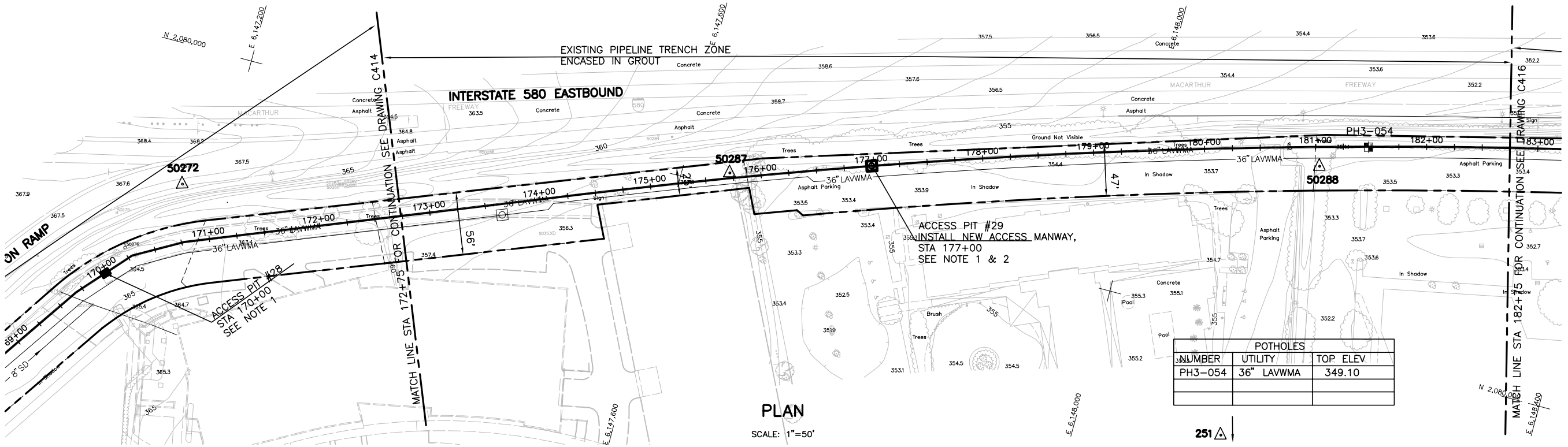
LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACLITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS
STA 160+50 TO STA 172+75

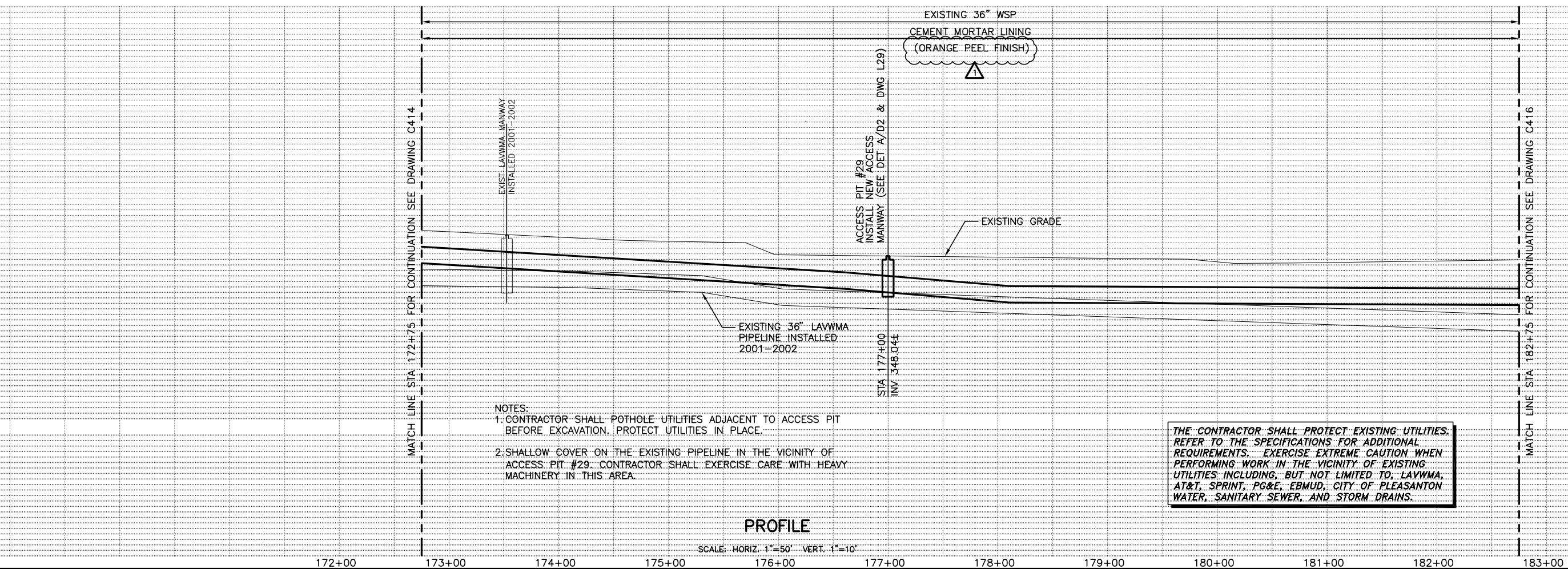
SCALE: AS SHOWN
DRAWING NUMBER: **C414A**
SHEET NUMBER: 32



PLAN

SCALE: 1"=50'

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-054	36" LAVWMA	349.10



NOTES:
1. CONTRACTOR SHALL POTHOLE UTILITIES ADJACENT TO ACCESS PIT BEFORE EXCAVATION. PROTECT UTILITIES IN PLACE.
2. SHALLOW COVER ON THE EXISTING PIPELINE IN THE VICINITY OF ACCESS PIT #29. CONTRACTOR SHALL EXERCISE CARE WITH HEAVY MACHINERY IN THIS AREA.

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

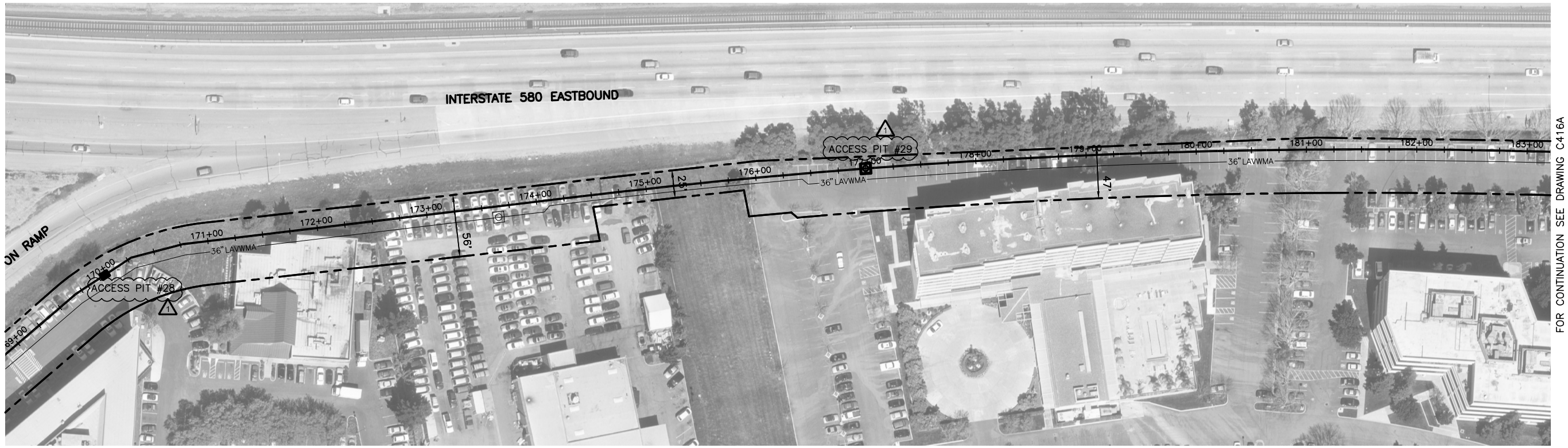
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 172+75 TO STA 182+75

SCALE: AS SHOWN
DRAWING NUMBER: **C415**
SHEET NUMBER: 33

Filename: DC-C415 | X-BORDER | X-TOPOB | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg
Plot date: Jun 18, 2007-03:09:20pm Plotted by: zburke, Xref Filename:
1=1 Filename: DC-C415 11-10-00 Cto



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

CULT-1

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

Xref Filename: C415A | X–BORDER | X–SITE3 | X–PROPER | Image Filename: | C59.tif | C61.tif | lavwma.jpg
Plotted by: zburke. Plot date: Jun 18, 2007–03:18:00pm
Filename: C415A 1=1
11–10–00 PC
C415A

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

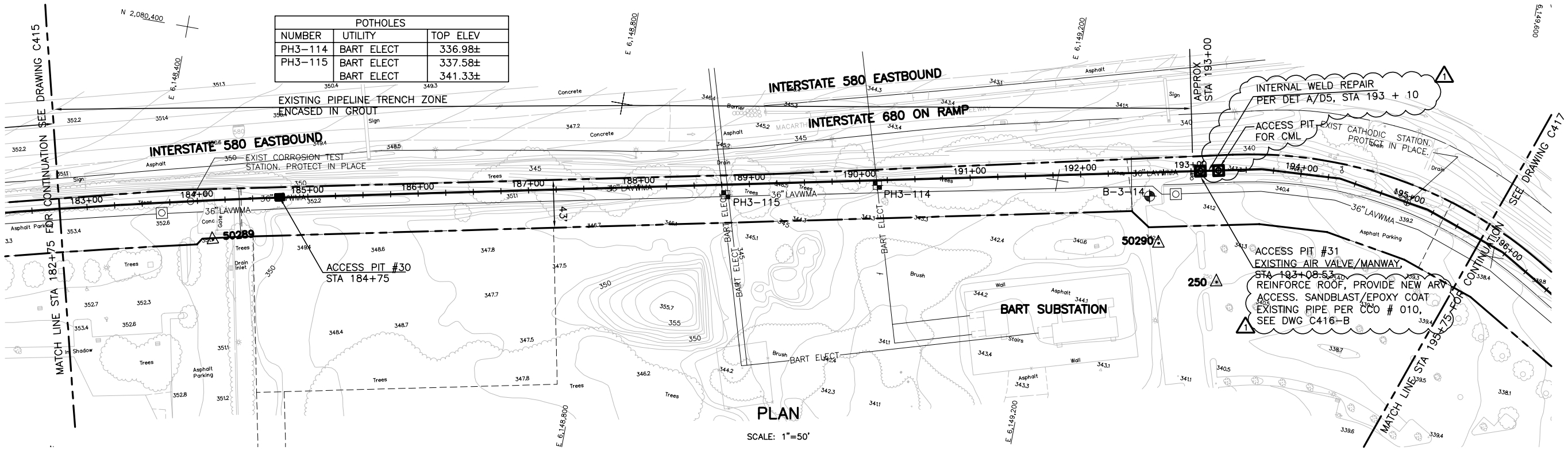
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS
STA 172+75 TO STA 182+75

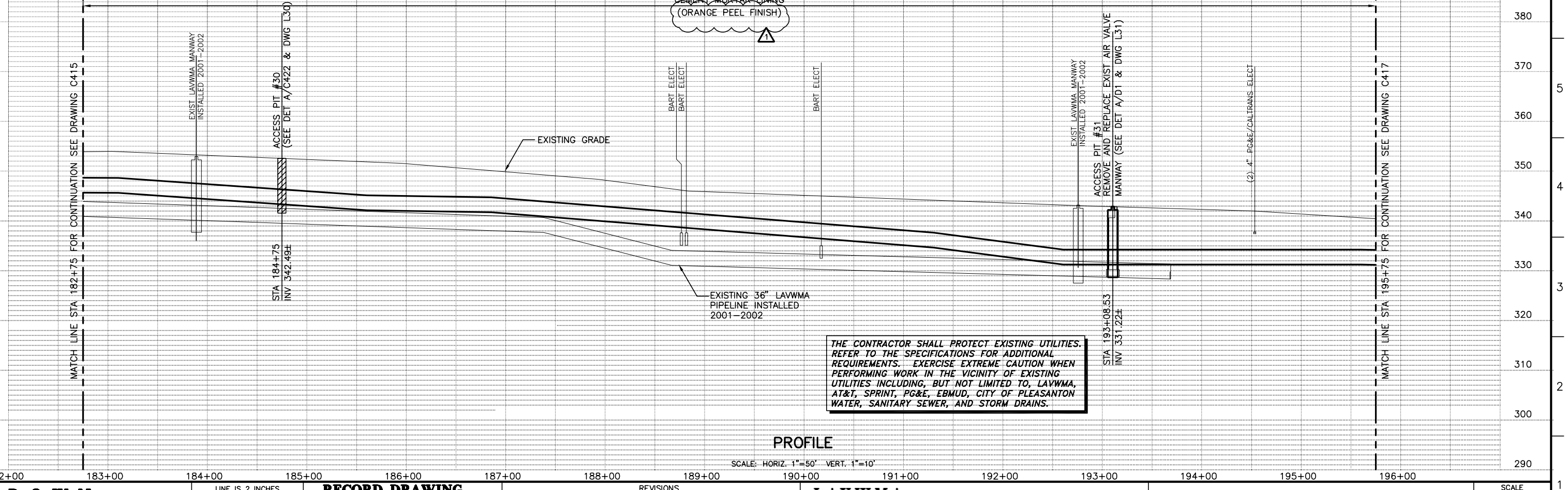
SCALE: AS SHOWN
DRAWING NUMBER: C415A
SHEET NUMBER: 34

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3–114	BART ELECT	336.98±
PH3–115	BART ELECT	337.58±
	BART ELECT	341.33±



PLAN

SCALE: 1"=50'



THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA **LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY**

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 182+75 TO STA 195+75

SCALE: AS SHOWN
DRAWING NUMBER: **C416**
SHEET NUMBER: 35

DC-C416 11-10-00 Cto | 1=1 | Filename: DC-C416 | X-TOPOB | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg | X-BORDER | Plotted by: zburke Xref Filename: | Plot date: Jun 18, 2007–03:09:04pm



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

CULT-1

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.
3. SOME TREES AS SHOWN ON BART PROPERTY IN AERIAL PHOTOGRAPH ARE NO LONGER THERE.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

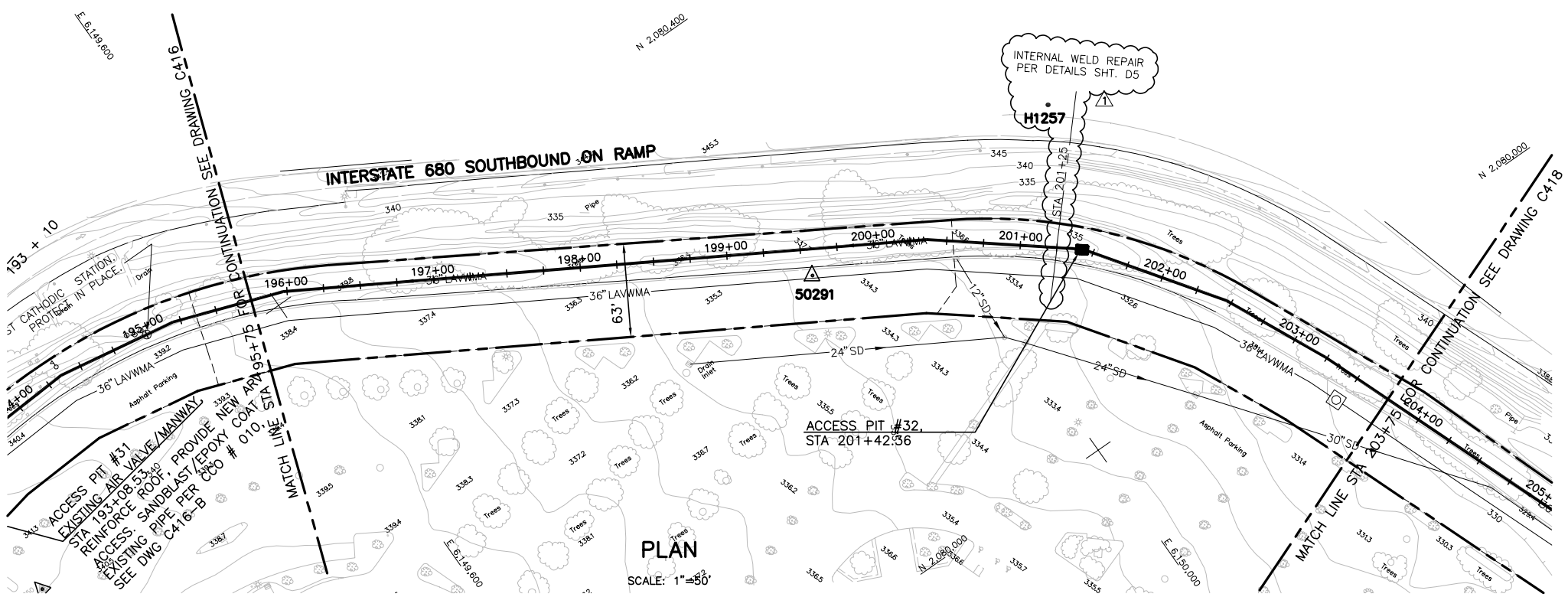
EXPORT PIPELINE FACILITIE PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS
STA 182+75 TO STA 195+75

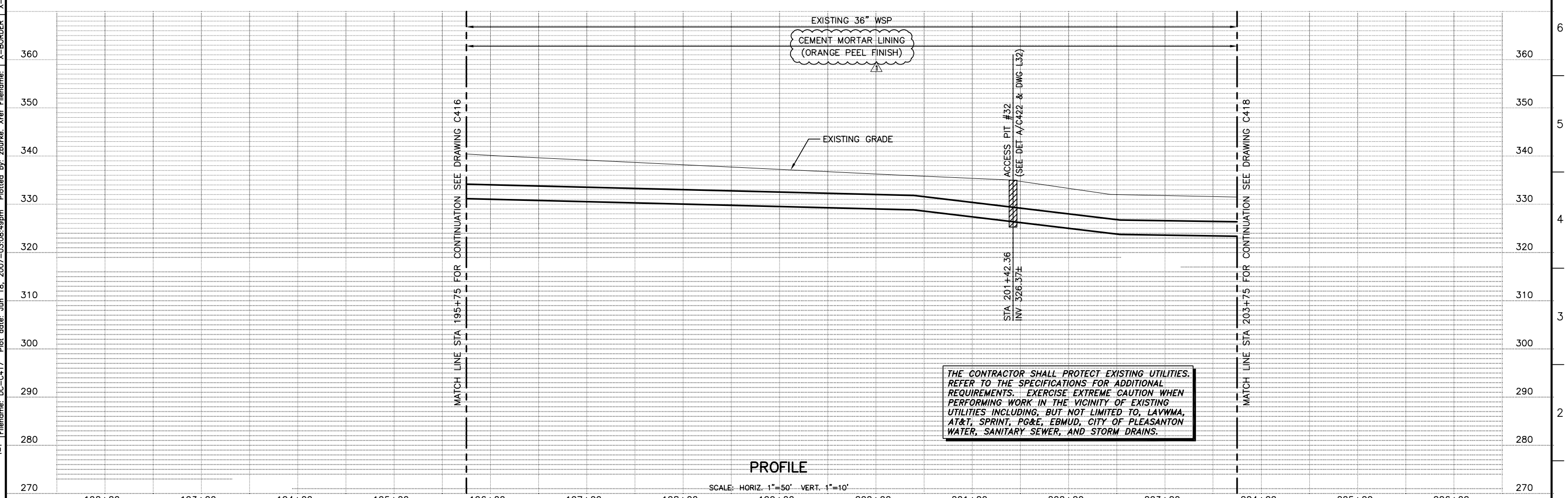
SCALE: AS SHOWN
DRAWING NUMBER: **C416A**
SHEET NUMBER: 36

C416A | 11-10-00 | PC | 1=1 | Filename: C416A | Plot date: Jun 18, 2007-03:17:15pm | Plotted by: zburke | Xref Filename: X-BORDER | X-SITE3 | X-PROPER | Image Filename: C62.tif | lavwma.jpg



PLAN

SCALE: 1"=50'



PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

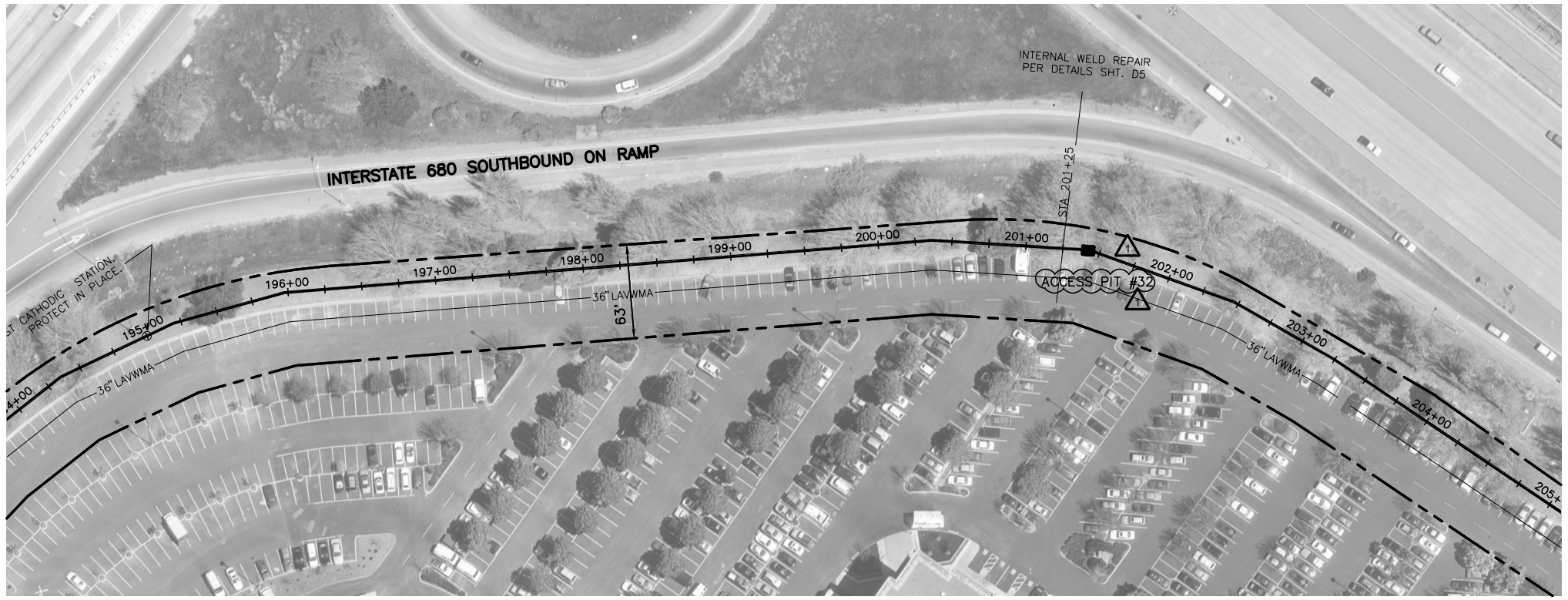
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 195+75 TO STA 203+75

SCALE: AS SHOWN
DRAWING NUMBER: C417
SHEET NUMBER: 37

Filename: DC-C417 | X-BORDER | X-TOPOB | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg
Plot date: Jun 18, 2007-03:08:49pm | Plotted by: zburke | Xref Filename:
1=1
DC-C417 11-10-00 Cto



FOR CONTINUATION SEE DRAWING C416A

FOR CONTINUATION SEE DRAWING C418A

AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

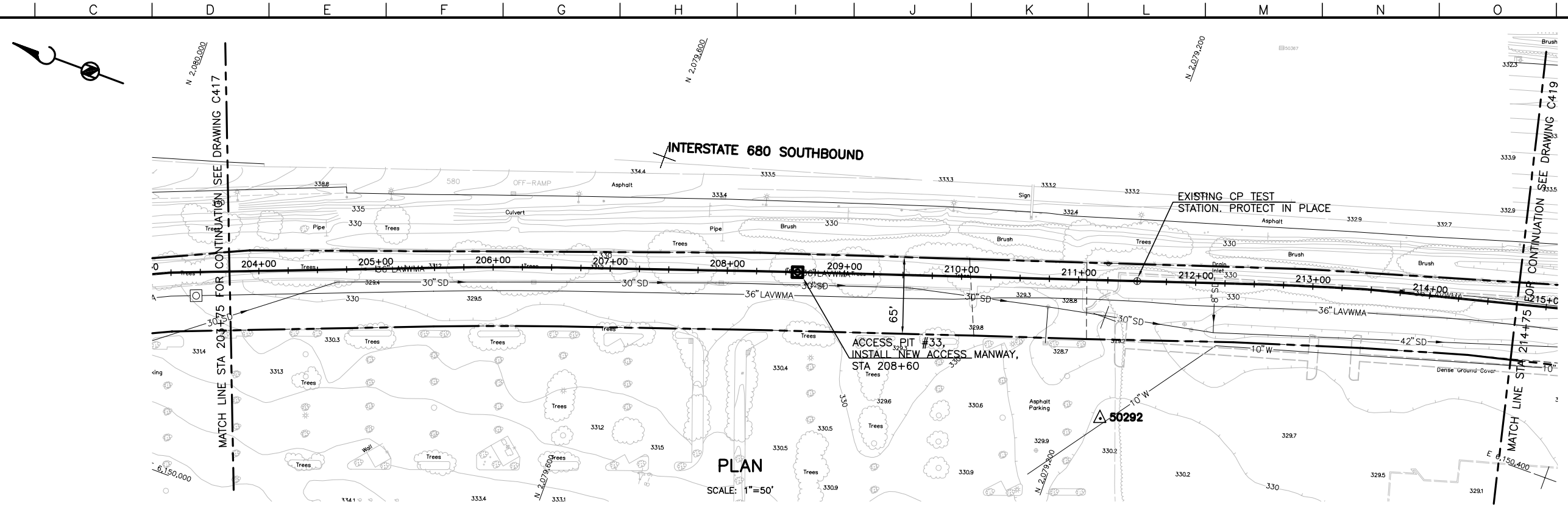
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS STA 195+75 TO STA 203+75

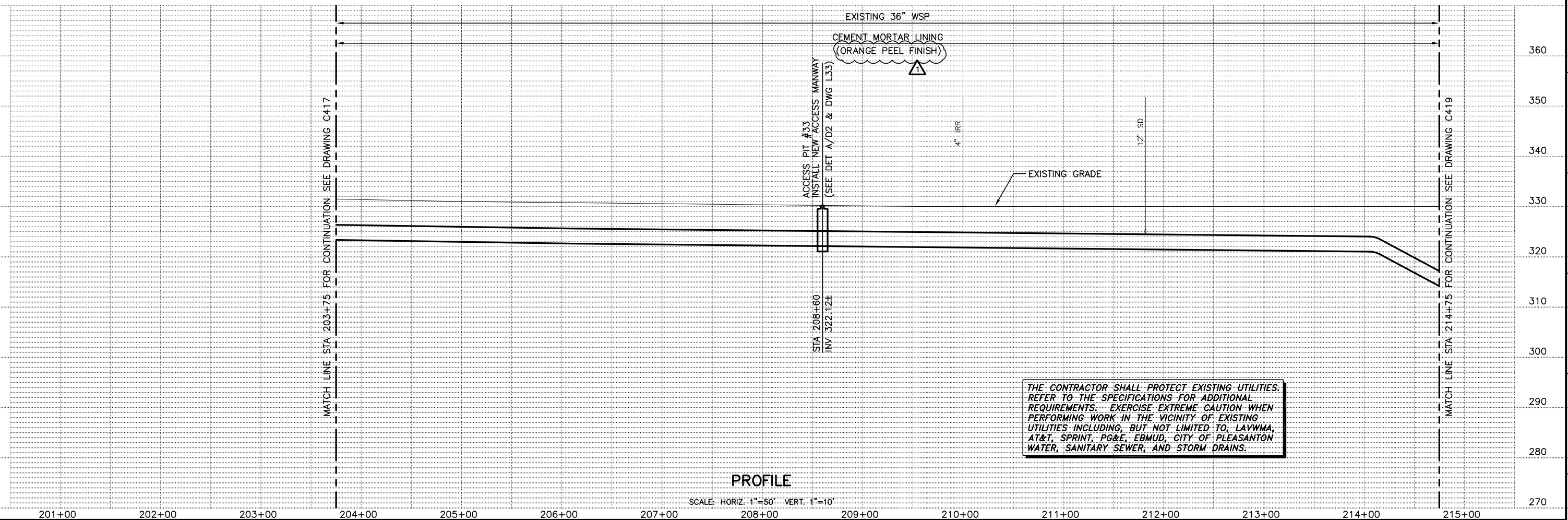
SCALE: AS SHOWN
DRAWING NUMBER: C417A
SHEET NUMBER: 38

C417A | 11-10-00 | PC | 1=1 | Filename: C417A | Plot date: Jun 18, 2007-03:16:27pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-SITE3 | X-PROPER | Image Filename: | C63.tif | lavwma.jpg



PLAN

SCALE: 1"=50'



PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 203+75 TO STA 214+75

SCALE: AS SHOWN
DRAWING NUMBER: **C418**
SHEET NUMBER: 39

DC-C418 11-10-00 Cto | 1=1 | Filename: DC-C418 | Plot date: Jun 18, 2007-03:08:33pm | Plotted by: zburke | Xref Filename: X-BORDER | X-TOPOB | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

Xref Filename: | X–BORDER | X–SITE3 | X–PROPER | Image Filename: | C64.tif | lavwma.jpg
Plotted by: zburke. Plot date: Jun 18, 2007–03:15:01pm
Filename: C418A 1=1
11–10–00 PC
C418A

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

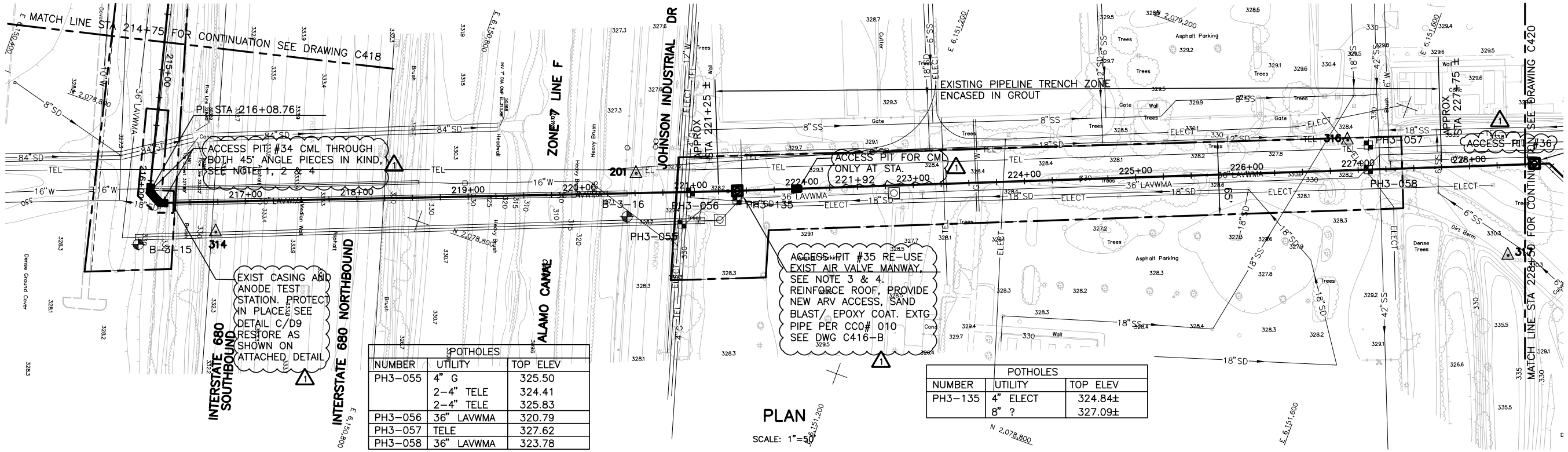
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS
STA 203+75 TO STA 214+75

SCALE: AS SHOWN
DRAWING NUMBER: **C418A**
SHEET NUMBER: 40

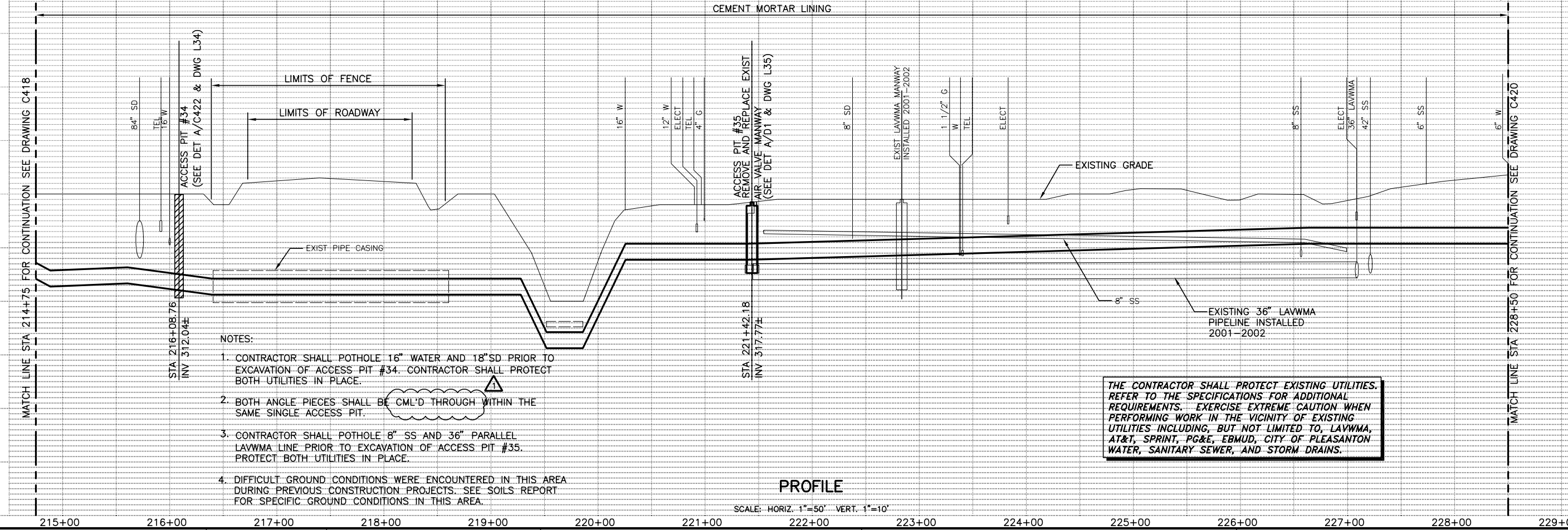


POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-055	4" G	325.50
	2-4" TELE	324.41
	2-4" TELE	325.83
PH3-056	36" LAVWMA	320.79
PH3-057	TELE	327.62
PH3-058	36" LAVWMA	323.78

POTHOLES		
NUMBER	UTILITY	TOP ELEV
PH3-135	4" ELECT	324.84±
	8" ?	327.09±

PLAN

SCALE: 1"=50'



NOTES:

1. CONTRACTOR SHALL POTHOLE 16" WATER AND 18"SD PRIOR TO EXCAVATION OF ACCESS PIT #34. CONTRACTOR SHALL PROTECT BOTH UTILITIES IN PLACE.
2. BOTH ANGLE PIECES SHALL BE CML'D THROUGH WITHIN THE SAME SINGLE ACCESS PIT.
3. CONTRACTOR SHALL POTHOLE 8" SS AND 36" PARALLEL LAVWMA LINE PRIOR TO EXCAVATION OF ACCESS PIT #35. PROTECT BOTH UTILITIES IN PLACE.
4. DIFFICULT GROUND CONDITIONS WERE ENCOUNTERED IN THIS AREA DURING PREVIOUS CONSTRUCTION PROJECTS. SEE SOILS REPORT FOR SPECIFIC GROUND CONDITIONS IN THIS AREA.

THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXERCISE EXTREME CAUTION WHEN PERFORMING WORK IN THE VICINITY OF EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, LAVWMA, AT&T, SPRINT, PG&E, EBMUD, CITY OF PLEASANTON WATER, SANITARY SEWER, AND STORM DRAINS.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

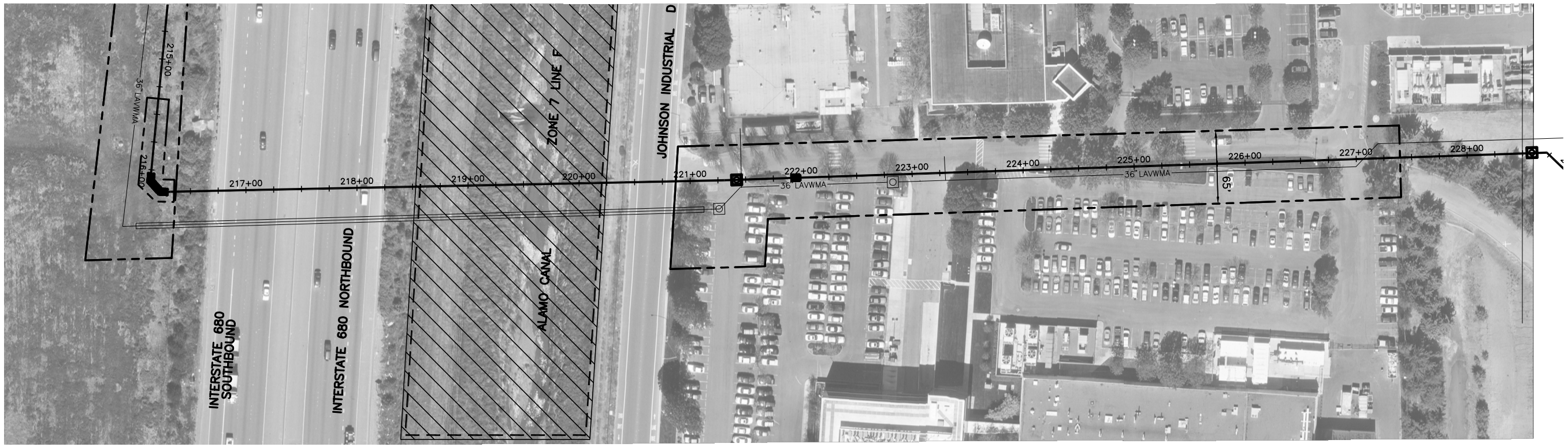
CIVIL

PLAN AND PROFILE
STA 214+75 TO STA 228+50

SCALE: AS SHOWN
DRAWING NUMBER: **C419**
SHEET NUMBER: 41

DC-C419 11-10-00 Cto | 1=1 | Filename: DC-C419 | X-BORDER | X-TOPO8 | X-EXUTIL | X-SITE4 | x-proper | Image Filename: lavwma.jpg | Plot date: Jun 18, 2007-03:08:17pm | Plotted by: zburke. Xref Filename: |

FOR CONTINUATION SEE DRAWING C418A



AERIAL PHOTOGRAPH PLAN

SCALE: 1"=50'

W-5

BIO-1

SW-1

CULT-1

PSU-3

LEGEND:

- WETLAND OR WATER–ASSOCIATED HABITAT
- SPECIAL STATUS BATS, RAPTORS AND PASSERINES
- CALIFORNIA RED–LEGGED FROG
- ALAMEDA WHIPSNAKE

NOTES:

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SWPPP IN SPECS.
2. DETAILED DESCRIPTIONS OF MITIGATION REQUIREMENTS ARE PROVIDED IN MITIGATION MONITORING REPORTING PLAN IN SPECS.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

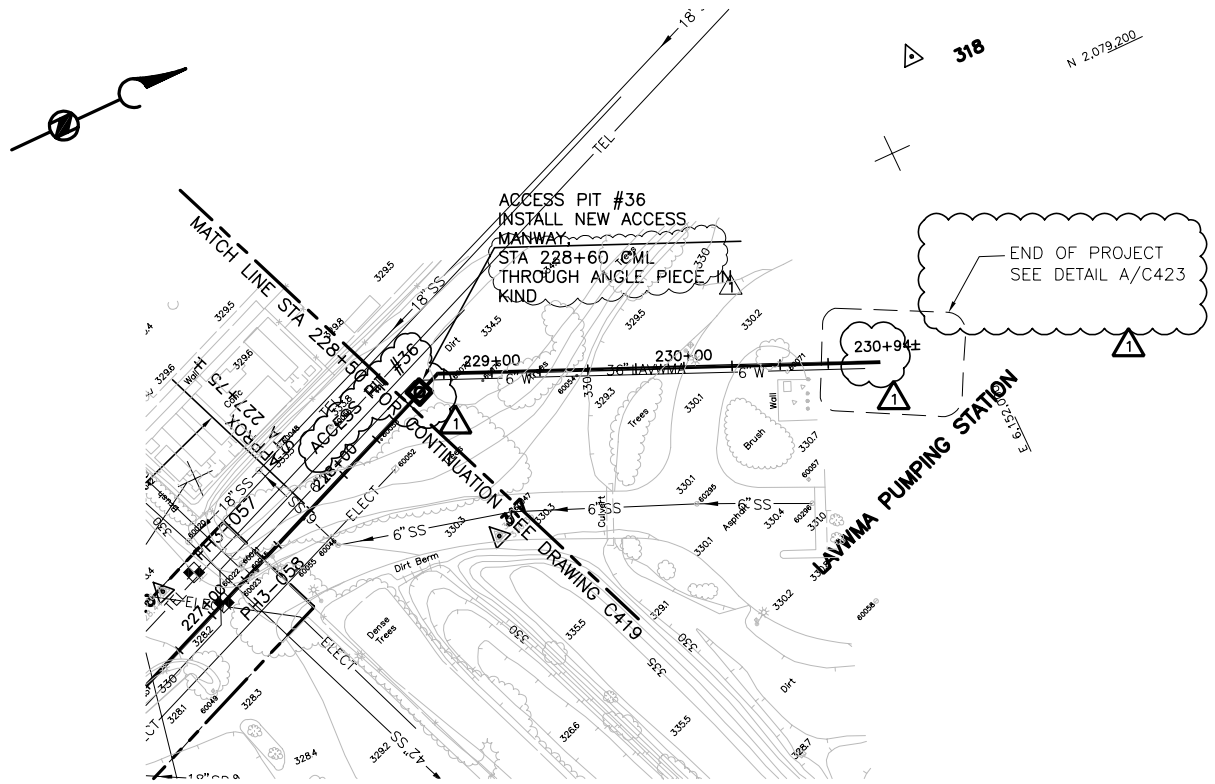
EXPORT PIPELINE FACILITIE PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SPECIAL MITIGATIONS
STA 214+75 TO STA 228+50

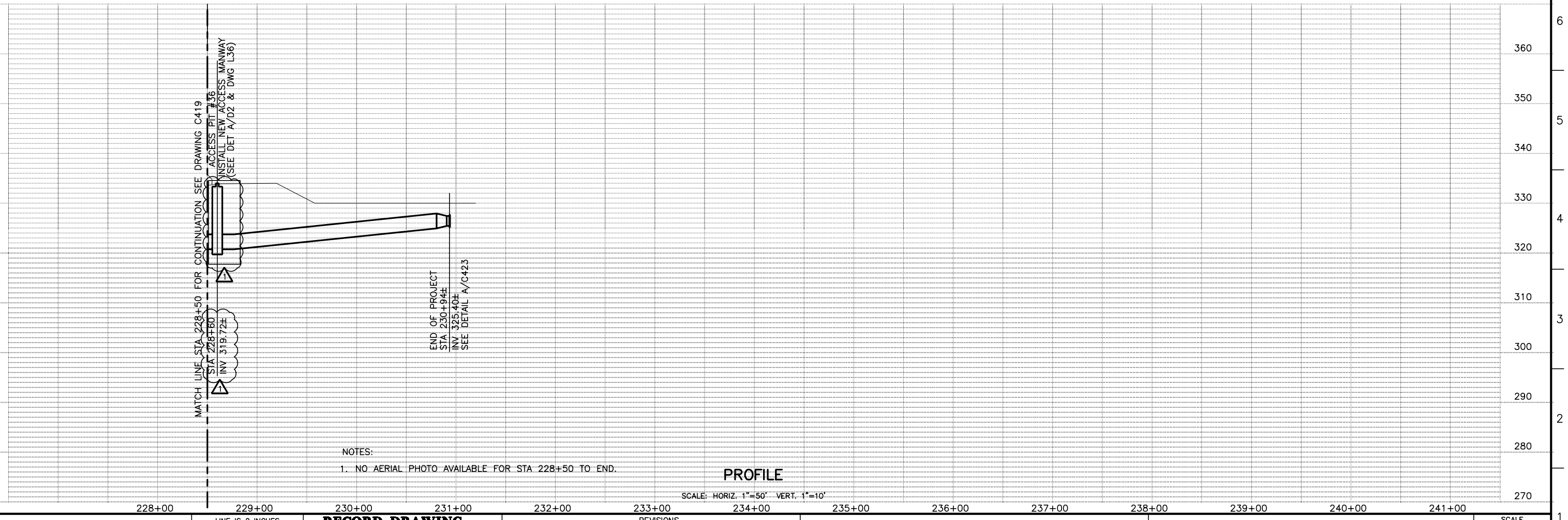
SCALE: AS SHOWN
DRAWING NUMBER: **C419A**
SHEET NUMBER: 42

Filename: C419A | X-BORDER | X-SITE3 | X-PROPER | Image Filename: | C65.tif | lavwma.jpg | Plotted by: zburke. Xref Filename: | Plot date: Jun 18, 2007-03:13:56pm | Filename: C419A | 1=1 | PC | 11-10-00 | C419A



PLAN

SCALE: 1"=50'



NOTES:

1. NO AERIAL PHOTO AVAILABLE FOR STA 228+50 TO END.

PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=10'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

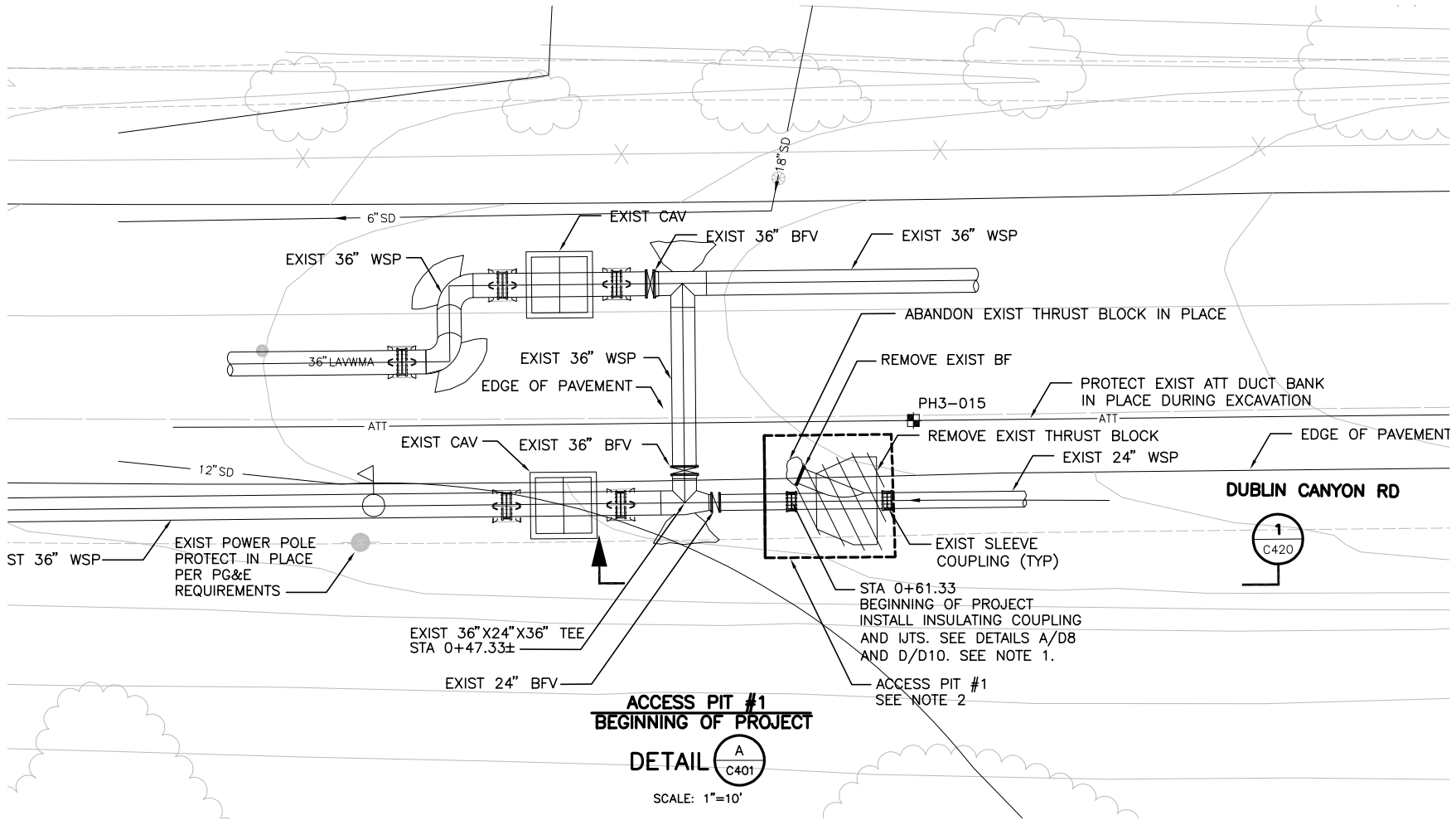
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PLAN AND PROFILE
STA 228+50 TO STA END

SCALE: AS SHOWN
DRAWING NUMBER: **C420**
SHEET NUMBER: 43

DC-C419 | 11-10-00 | Oto | 1=1 | Filename: DC-C420 | Plot date: Jun 18, 2007-03:08:00pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-EXUTIL | X-SITE4 | X-TOP08 | x-proper | Image Filename: | lavwma.jpg



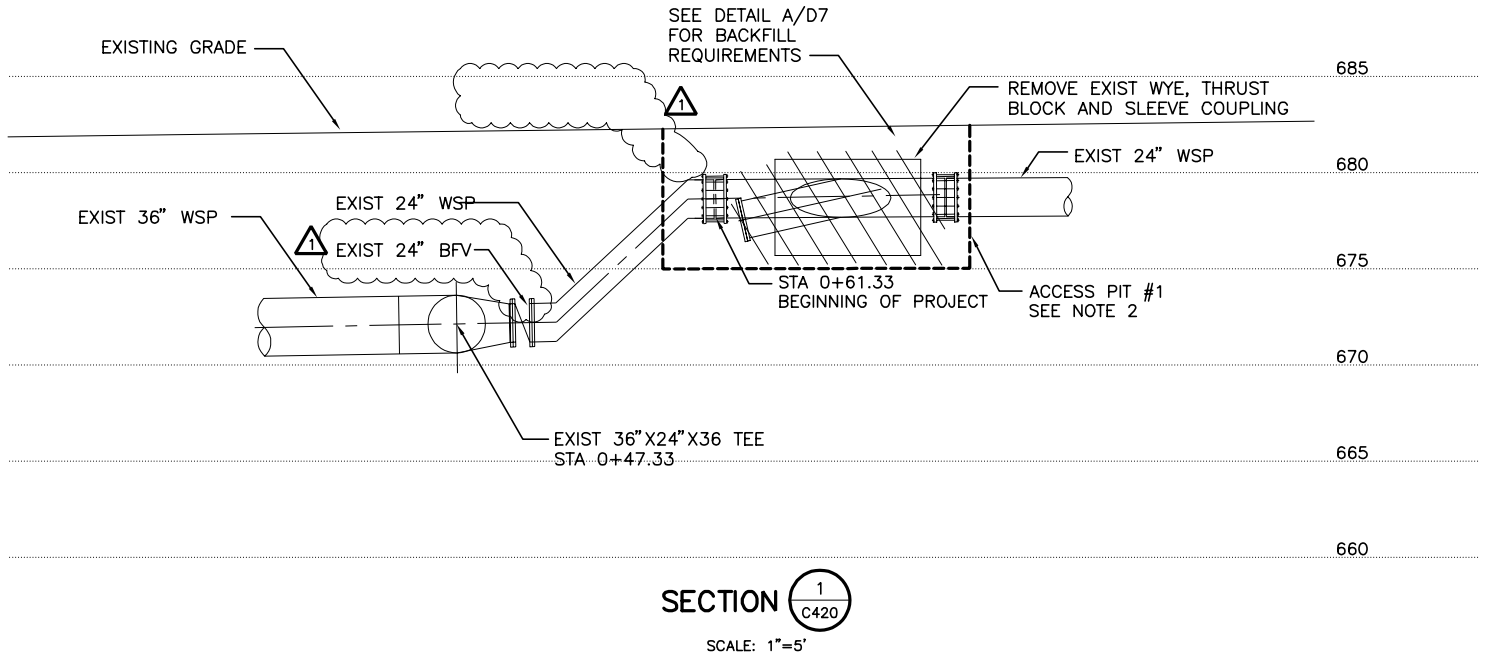
ACCESS PIT #1
BEGINNING OF PROJECT

DETAIL A / C401

SCALE: 1"=10'

NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING WYE, THRUST BLOCK AND SLEEVE COUPLING AS SHOWN. AFTER LINING IN THIS AREA HAS BEEN COMPLETED, REPLACE WITH A NEW SPOOL PIECE LINED AND COATED PER SPECIFICATION WITH NEW SLEEVE COUPLING TO MATCH EXISTING. SEE SPECIFICATION 15085.
2. PROVIDE TEMPORARY CATHODIC PROTECTION BONDING JUMPER IMMEDIATELY FOLLOWING REMOVAL OF PIPE SECTION UNTIL AFTER ELECTRICALLY CONTINUOUS REPLACEMENT OF PIPE SECTION.



SECTION 1 / C420

SCALE: 1"=5'

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	ZB	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

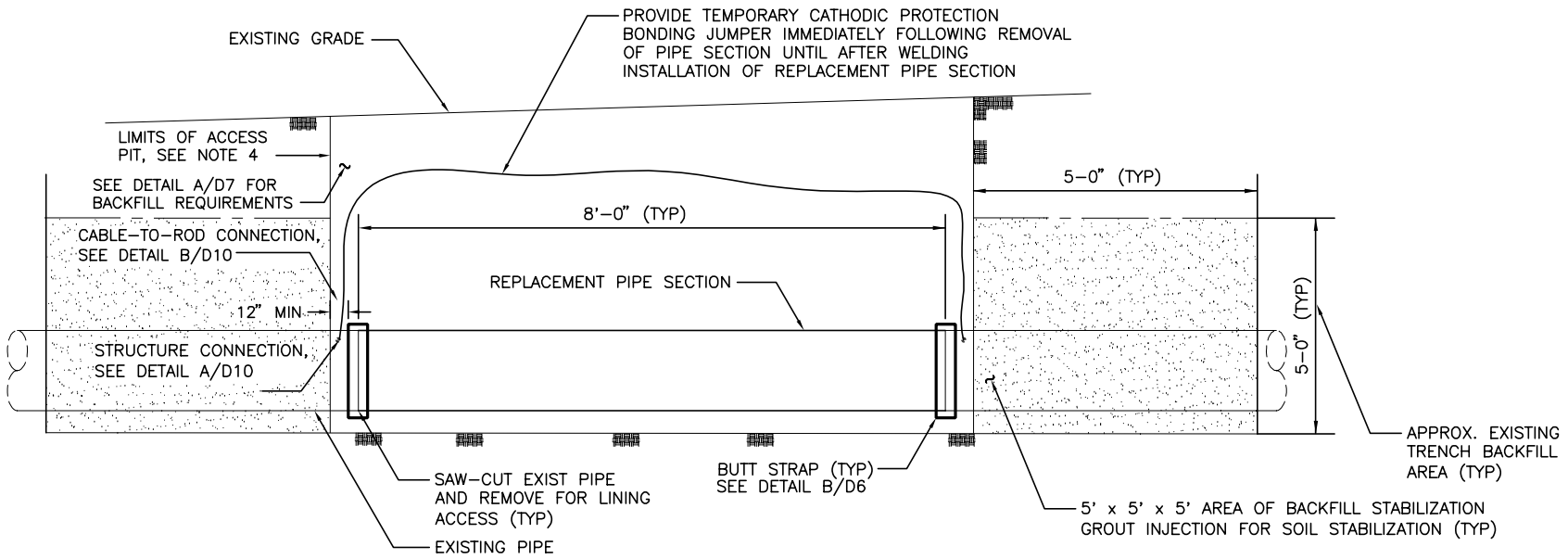
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SITE DETAILS 1

SCALE: AS SHOWN
DRAWING NUMBER: **C421**
SHEET NUMBER: 44

Xref Filename: | X-BORDER | X-TOPO6 | X-SITE4 | CAV | Image Filename: | lavwma.jpg | Plotted by: zburke. Plot date: Jun 18, 2007-03:07:49pm | Filename: DC-C421 | 1=1 | PC | DC-C420 1-03



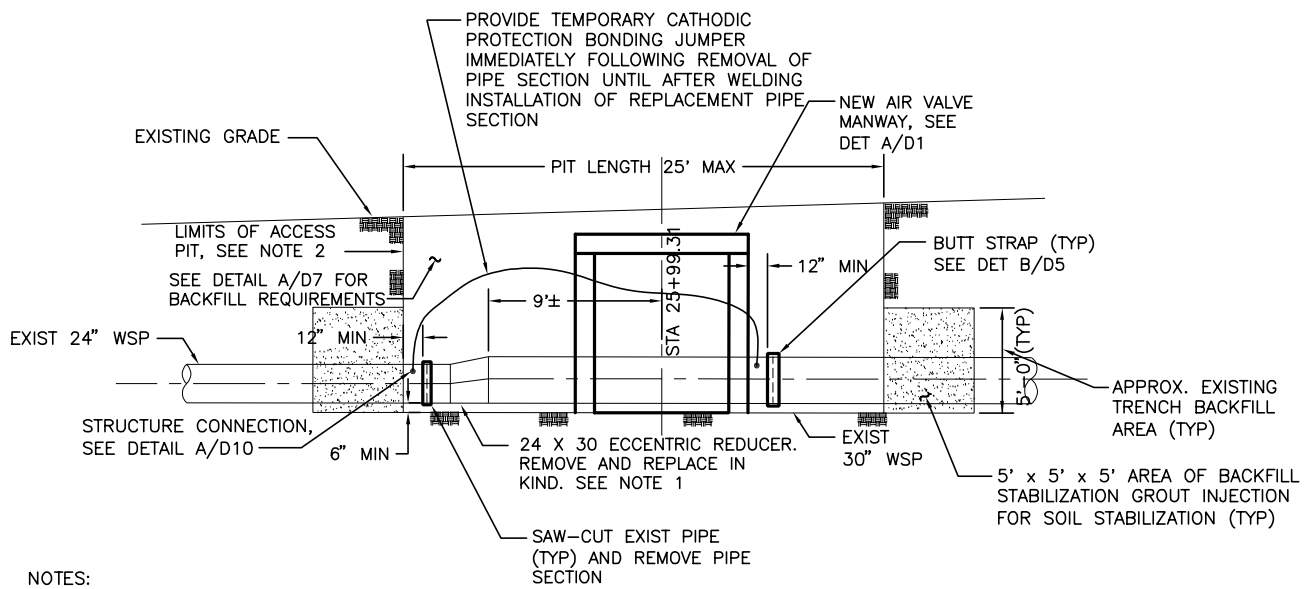
NOTES:

1. COMPLETELY REMOVE EXISTING MANWAY (INCLUDING BASE) AND EXISTING PIPE SECTION FOR LINING ACCESS.
2. REPLACEMENT PIPE SECTION MAY BE STRAIGHT SPOOL PIECE, ECCENTRIC REDUCER, OR ANGLE PIECE. SEE PLAN AND PROFILE.
3. REPLACEMENT PIPE SECTION SHALL BE CEMENT LINED, TAPE WRAPPED, AND MORTAR COATED PER SPECIFICATIONS.
4. CONTRACTOR SHALL MINIMIZE WIDTH OF EXCAVATION PIT. EXCAVATION SHALL BE A MAXIMUM LENGTH OF 12 FEET. 1

ACCESS PIT FOR LINING

DETAIL A/VAR

NTS



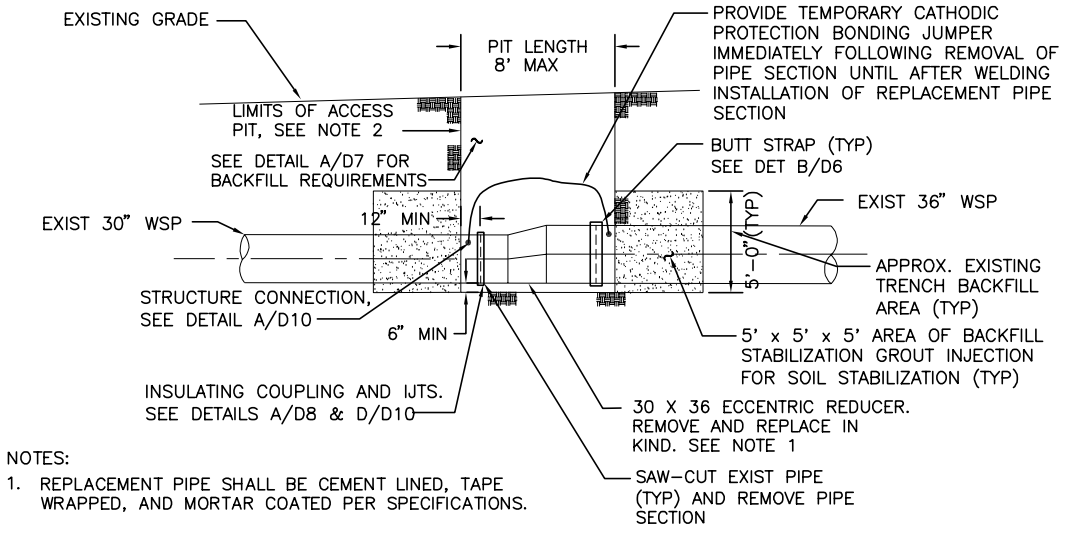
NOTES:

1. REPLACEMENT PIPE SHALL BE CEMENT LINED, TAPE WRAPPED, AND MORTAR COATED PER SPECIFICATIONS.
2. CONTRACTOR SHALL MINIMIZE WIDTH OF EXCAVATION PIT.

ACCESS PIT #5 – STA 25+99.31

DETAIL B/C403

NTS



NOTES:

1. REPLACEMENT PIPE SHALL BE CEMENT LINED, TAPE WRAPPED, AND MORTAR COATED PER SPECIFICATIONS.
2. CONTRACTOR SHALL MINIMIZE WIDTH OF EXCAVATION PIT. EXCAVATION SHALL BE A MAXIMUM LENGTH OF 8 FEET.

ACCESS PIT #7 – STA 37+35

DETAIL C/C403

NTS

BROWN AND CALDWELL	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)	**RECORD DRAWING**
SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01	FILE 22471	THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02	DRAWN P. CHIN	
APPROVED: DATE:	DESIGNED J. GLYNN	
	CHECKED C JOYCE	
	CHECKED	

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	HK	1/04	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

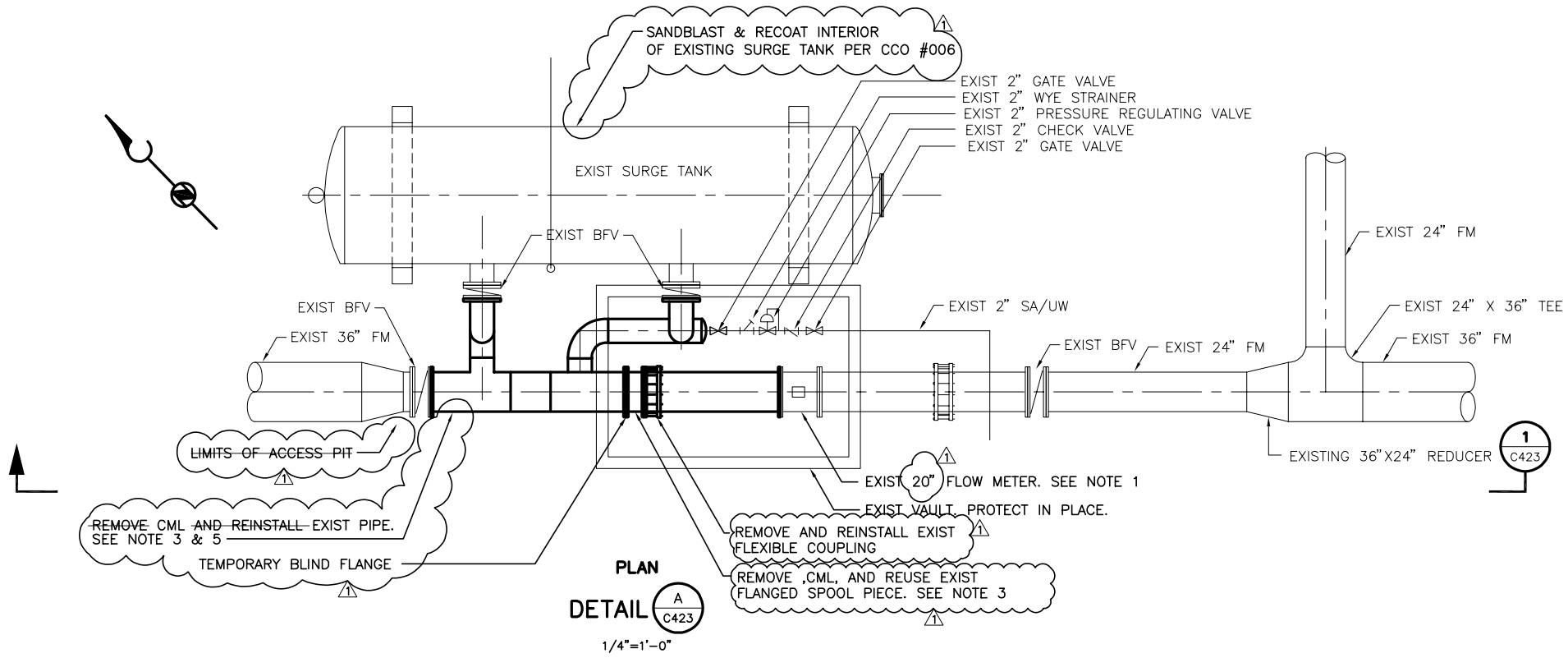
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SITE DETAILS 2

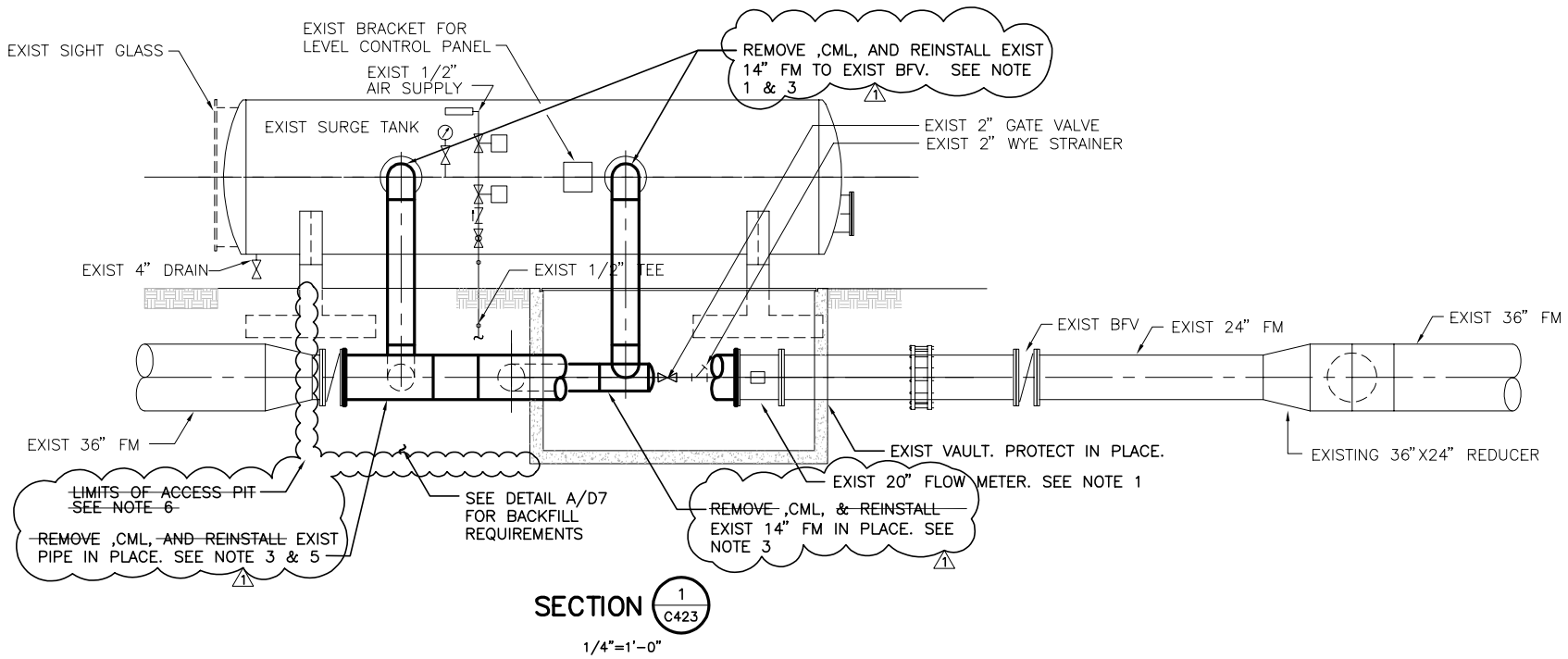
SCALE: AS SHOWN
DRAWING NUMBER: C422
SHEET NUMBER: 45

Filename: DC-C421 1-03 PC | X-BORDER | Image Filename: lavwma.jpg
Filename: DC-C422 Plot date: Jun 18, 2007-03:07:42pm Plotted by: zburke Xref Filename:
1=1



NOTES:

1. REMOVE, CML AND REINSTALL EXISTING PIPING FROM THE EXISTING 20" FLOW METER UP TO EXISTING 24" BFV. PROTECT FLOW METER AND BFV IN PLACE BY INSTALLING A TEMPORARY BLIND FLANGE AFTER EXISTING PIPING HAS BEEN REMOVED AND BEFORE NEW PIPING HAS BEEN INSTALLED.
2. ~~CONTRACTOR TO ENSURE THAT EXISTING WALL OPENING IS SHAPE SUITABLE FOR FLEXIBLE CONNECTION. HOLE SHALL BE 30" IN DIAMETER. DIAMETER SHALL BE TO A TOLERANCE OF +/- 0.2".~~
3. UNDERGROUND REPLACEMENT PIPE SHALL BE CEMENT LINED, TAPE WRAPPED, AND MORTAR COATED PER SPECIFICATIONS FOR BURIED PIPE. ABOVE GROUND REPLACEMENT PIPE SHALL BE CEMENT LINED AND PROVIDED WITH A PROTECTIVE COATING PER SPECIFICATIONS FOR ABOVE GROUND PIPE.
4. PROTECT ALL EXISTING UTILITIES AND FACILITIES IN PLACE.
5. PROVIDE TEMPORARY CATHODLIC PROTECTION BONDING JUMPER IMMEDIATELY FOLLOWING REMOVAL OF PIPE SECTION UNTIL AFTER ELECTRICALLY CONTINUOUS REPLACEMENT OF PIPE SECTION.
6. ~~PROVIDE 5' X 5' X 5' AREA OF BACKFILL STABILIZATION GROUT INJECTION FOR SOIL STABLIZATION ON THE NORTH WESTERN FACE OF ACCESS PIT PER DETAIL A/C422 PRIOR TO EXCAVATION.~~



CEMENT MORTAR LINE CONNECTING PIPE AT EXISTING PIT #37 PER CCO #00012

BROWN AND CALDWELL	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)	**RECORD DRAWING**
SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER, DATE: 05/NOV/01	FILE 22471	THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL, DATE: 05/NOV/02	DRAWN P. CHIN
APPROVED: DATE:	DESIGNED J. GLYNN
	CHECKED C JOYCE
	CHECKED

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

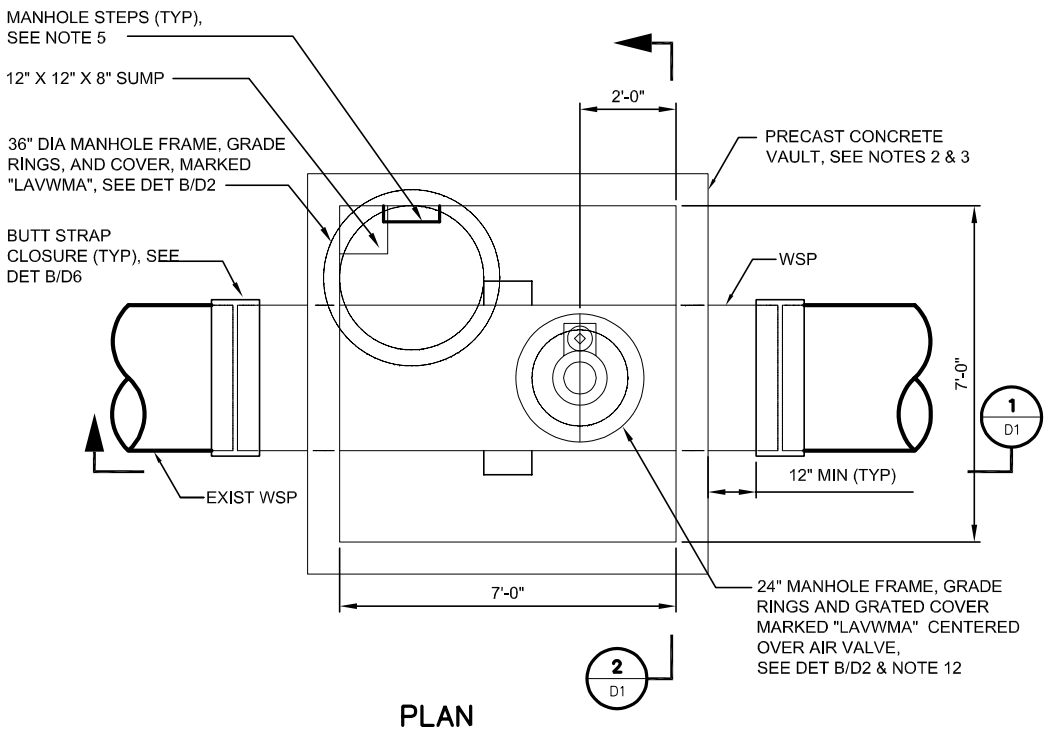
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

SITE DETAILS 3

SCALE: AS SHOWN
DRAWING NUMBER: C423
SHEET NUMBER: 46

DC-C421 1-03 PC | 1=1 | Filename: DC-C423 | Plot date: Jun 18, 2007-03:07:37pm | Plotted by: zburke | Xref Filename: | X-BORDER | Image Filename: | 001.TIF | lavwma.jpg



PLAN

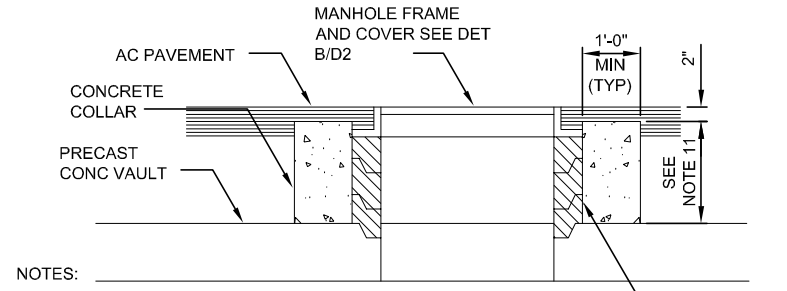
AIR VALVE MANWAY

DETAIL A VAR

TABLE 1 - AIR VALVE SCHEDULE						
PIT#	STATION	VALVE TYPE	NOMINAL VALVE DIA, INCHES	VAL-MATIC MODEL NO.	ANSI CLASS	PRESSURE (PSI)
5	25+99.31	AIR/VACUUM	4	104	125	150
8	37+89.00	COMBINATION	12	112/38	125	150
11	61+82.00	AIR/VACUUM	6	106	125	150
13	76+39.31	AIR/VACUUM	6	106	125	150
16	100+17.18	AIR/VACUUM	6	106	250	200
19	124+92.66	AIR/VACUUM	6	106	250	250
21	134+17.00	COMBINATION	4	104/38	250	250
25	159+82.00	AIR/VACUUM	4	104	250	300
31	193+08.53	AIR/VACUUM	4	104	250	300
35	221+42.18	COMBINATION	4	104/38	250	300

TABLE 2 - DIMENSIONS			
ACCESS PIT #	'A' † MINIMUM (IN)	B (IN)	C (IN)
5	60	17	5
8	56	31	8
11	80	20	5
13	73	20	5
16	56	20	5
19	85	20	5
21	48	17	5
25	85	17	5
31	87	17	5
35	88	17	5

† AS PIPE INVERT AND GROUND ELEVATION CHANGE THE ACTUAL DIMENSION 'A' WILL VARY.



NOTES:

1. CONCRETE COLLAR SHALL EXTEND TO TOP OF CONCRETE VAULT.

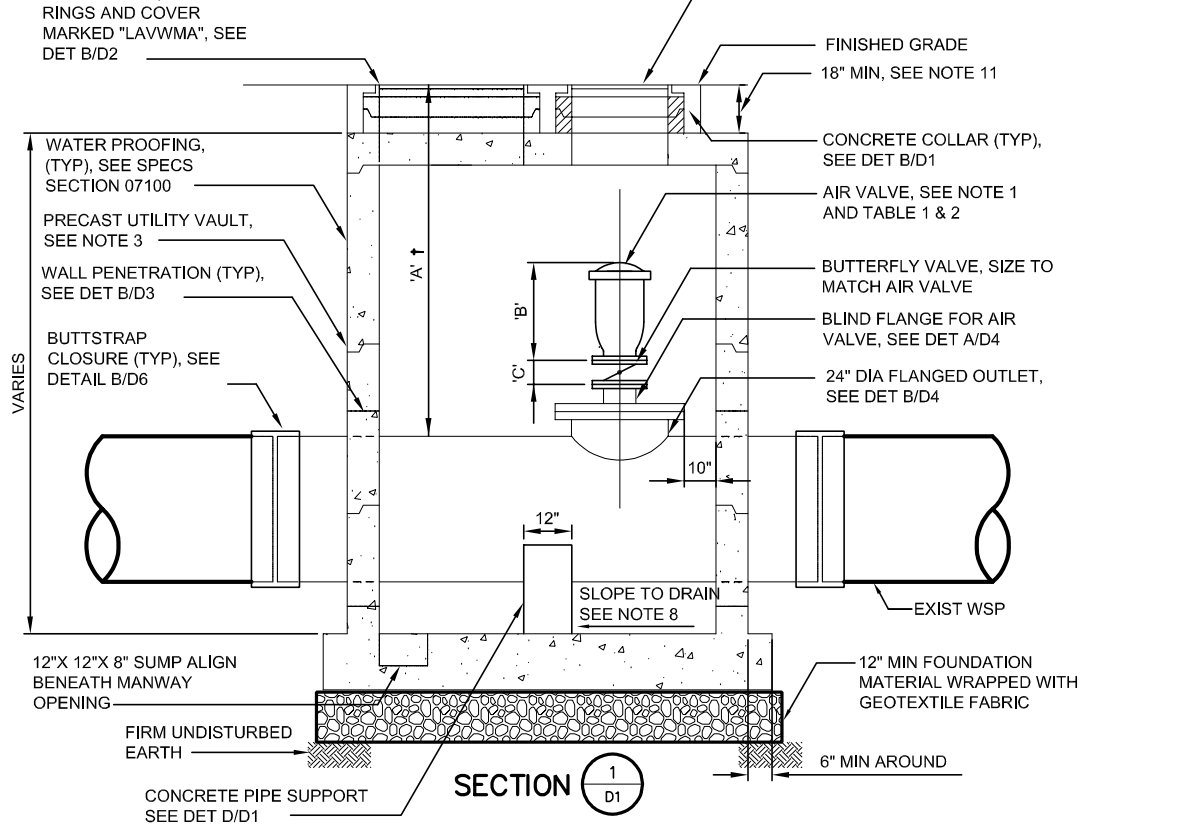
CONCRETE MANHOLE COLLAR

DETAIL B VAR

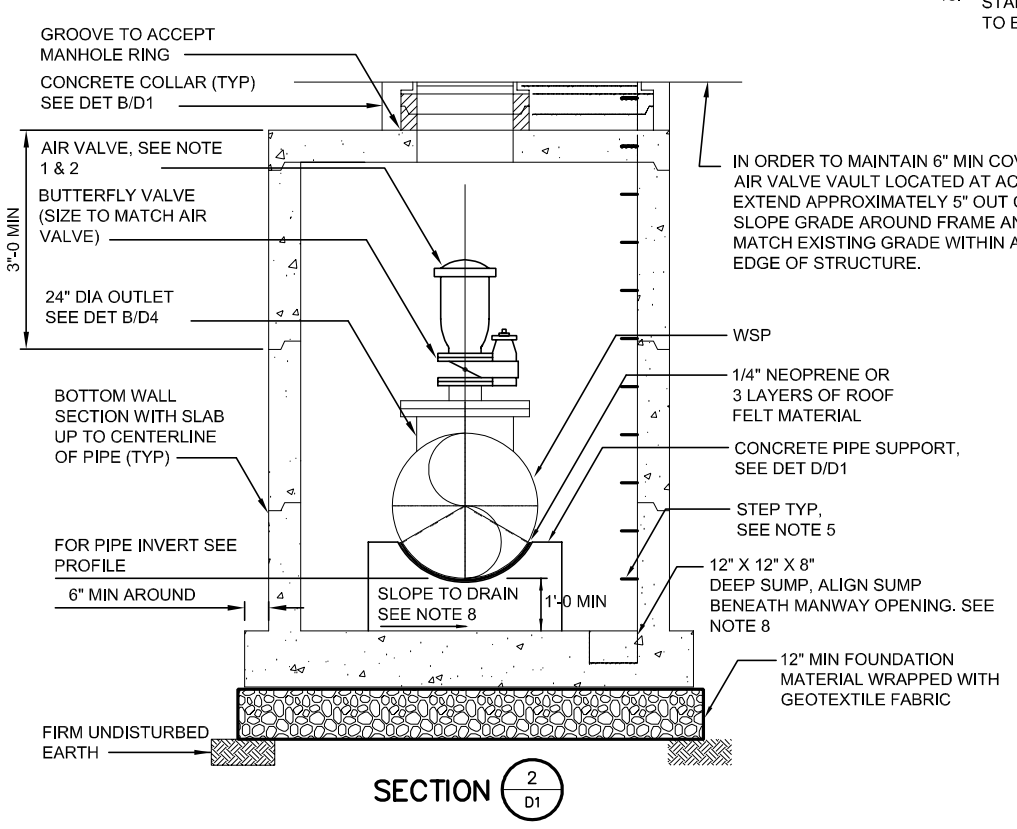
NO SCALE

NOTES:

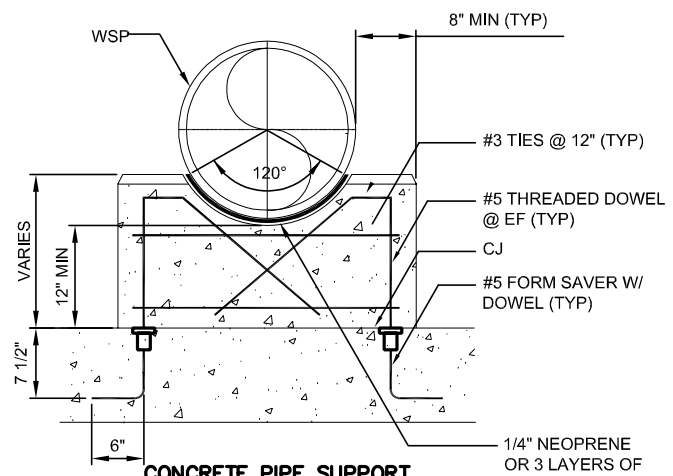
1. REMOVE AND SALVAGE EXISTING AIR VALVES AND RETURN THEM TO LAVWMA. REPLACE WITH NEW AIR VALVE TO MATCH EXISTING. INSTALLATION OF AIR VALVE SHALL NOT EXTEND TO CLOSER THAN 6 INCHES OF VAULT CEILING.
2. CONTRACTOR SHALL VERIFY ALL INVERTS AND CLEARANCES PRIOR TO MANUFACTURE/PURCHASE OF VALVES AND VAULTS.
3. PRECAST UTILITY VAULT SHALL BE RATED FOR HS20 CONTINUOUS TRAFFIC IMPACT LOADING. FIRST JOINT SHALL BE AT SPRING LINE OF PIPE, SEAL ALL JOINTS WITH RAM-NEK SEALANT, OR EQUAL. SEE SPECIFICATION SECTION 02701.
4. PROVIDE PIPE AND APPURTENANCES WITH SHOP-APPLIED PROTECTIVE COATINGS FOR ALL FERROUS SURFACES PER SPECIFICATION SECTION 09900.
5. STEPS SHALL BE PER SPECIFICATION SECTION 02701. MAINTAIN 12" SPACING TO WITHIN 14" OF FINISHED GRADE.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING DIMENSIONS, REINFORCING AND CALCULATIONS FOR PIPE PENETRATIONS, ROOF, BASE SLAB, AND WALL CONNECTIONS.
7. PIPELINE THROUGH VAULT SHALL BE WELDED STEEL PIPE. INVERT ELEVATIONS ARE GIVEN ON PLAN AND PROFILE DRAWINGS. IN MICROTUNNELED RCCP REACHES, WSP t=0.625".
8. ~~PROVIDE 6-INCH WIDE CHANNELS AROUND THE PERIMETER OF THE BASE OF THE VAULT.~~ SLOPE THE BASE TO THE ~~CHANNELS AND SLOPE THE CHANNELS TO~~ SUMP. (1)
9. CONTRACTOR SHALL COORDINATE LOCATION OF MANHOLE FRAME, GRADE RINGS, AND COVER WITH EXISTING CURBS SIDEWALKS, AND OTHER SURFACE IMPROVEMENTS.
10. WHEN REMOVING EXISTING VAULT, CONTRACTOR SHALL CAP AND ABANDON IN PLACE ANY EXISTING VENT PIPING.
11. MANHOLE FRAME DEPTH SHALL BE 18 INCHES AS SHOWN EXCEPT IN AIR VALVE MANWAYS LOCATED AT ACCESS PIT NUMBER 5, 8, 16, AND 21. AT THESE LOCATIONS, CONTRACTOR SHALL MAINTAIN A MINIMUM OF 6 INCHES. (1)
12. CONTRACTOR SHALL ~~SWAP~~ LOCATIONS OF 24-INCH AND 36-INCH OPENINGS ON MANWAY IN ACCESS PITS #8 AND #16 SUCH THAT 36-INCH OPENING SHALL BE CENTERED OVER THE AIR VALVE AND ~~24-INCH~~ OPENING SHALL ALLOW ACCESS TO STEPS.
13. GROUNDWATER SHALL BE KEPT BELOW BASE OF EXCAVATION AT ALL TIMES DURING CONSTRUCTION.
14. BACKFILL STRUCTURE PER DETAIL A/D7.
15. PROVIDE 5' X 5' X 5' AREA OF BACKFILL STABILIZATION GROUT INJECTION FOR SOIL STABILIZATION AT PIPE PENETRATIONS INTO ACCESS PIT EXCAVATION PER DETAIL A/C422 PRIOR TO EXCAVATION.



SECTION 1 D1



SECTION 2 D1



CONCRETE PIPE SUPPORT

DETAIL D D1

BROWN AND CALDWELL	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)	**RECORD DRAWING**	REVISIONS

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: — DATE:

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

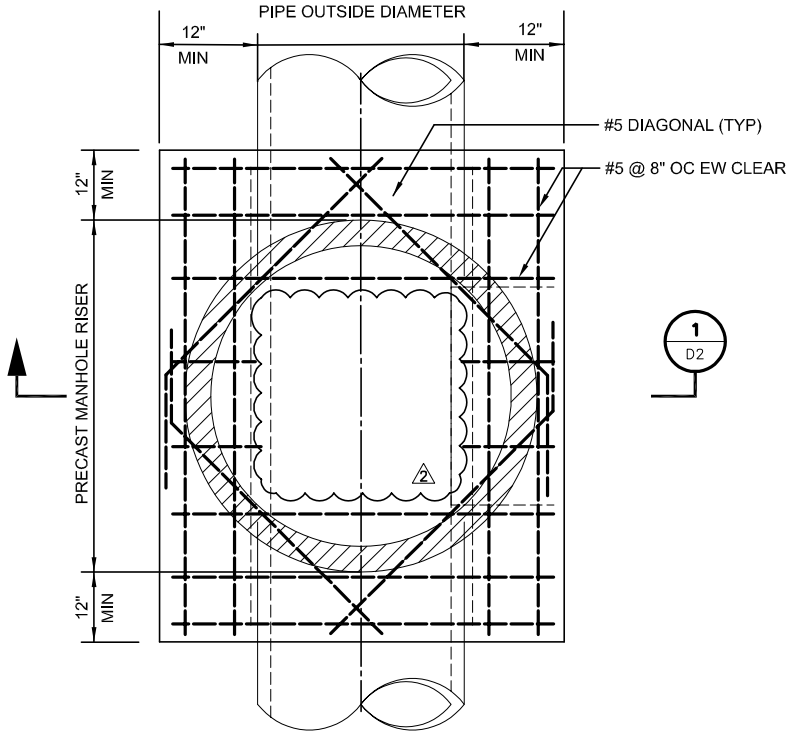
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

AIR VALVE MANWAY DETAILS

SCALE: NO SCALE
DRAWING NUMBER: **D1**
SHEET NUMBER: 47

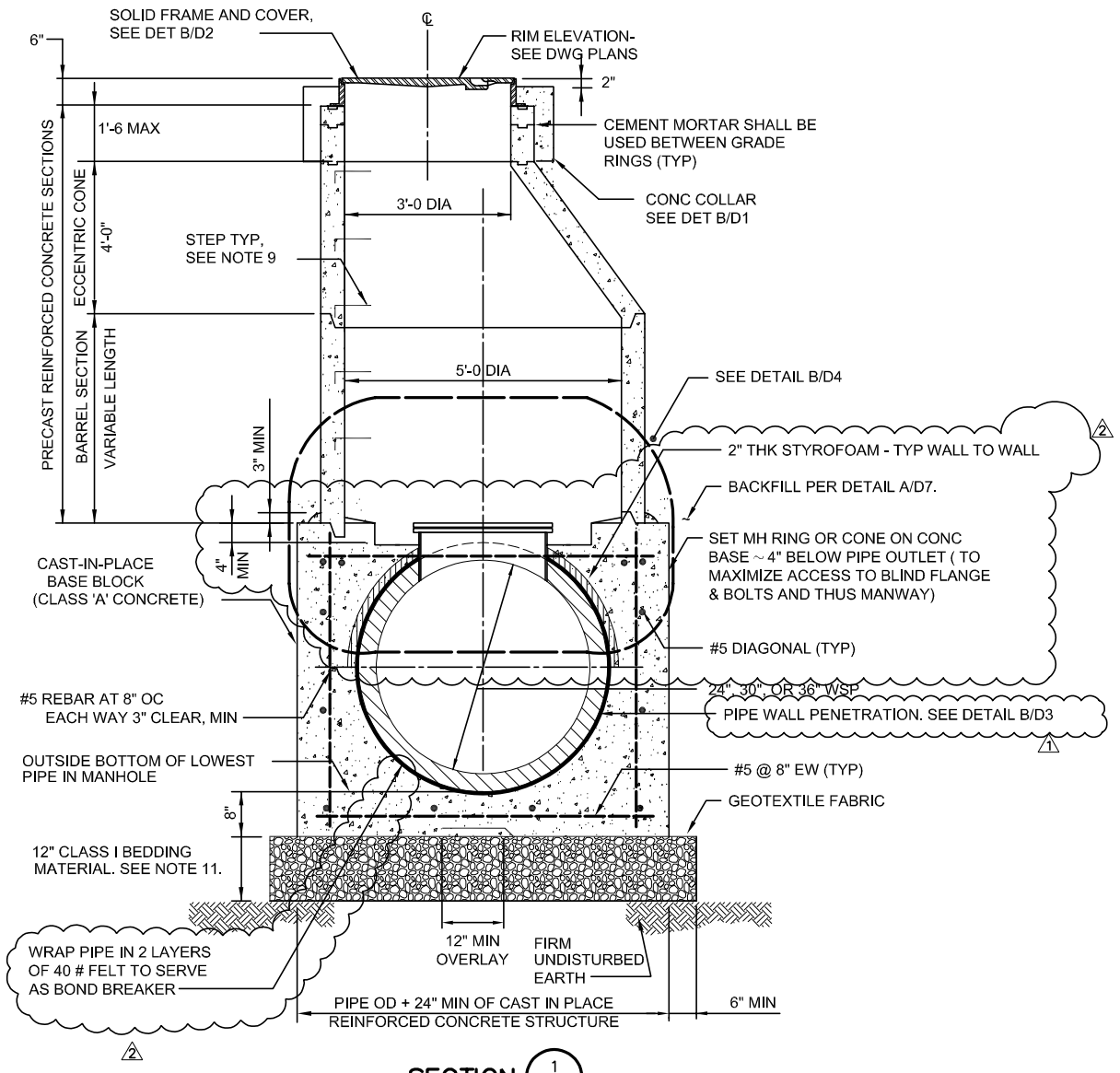
Filename: DC-D101 | Plot date: Jun 19, 2007-07:17:46am | Plotted by: zburke | Xref Filename: | X-BORDER | Image Filename: lavwma.jpg | 1=24 | PC | 1-03 | CL-D101



PRESSURE ACCESS MANWAY

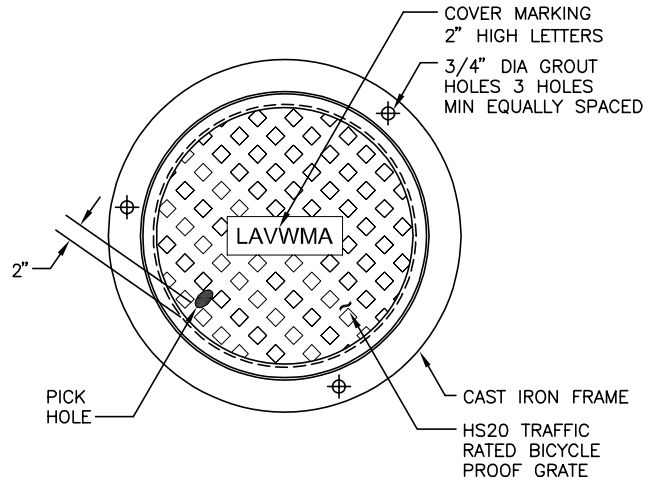
DETAIL A/VAR

NOT TO SCALE

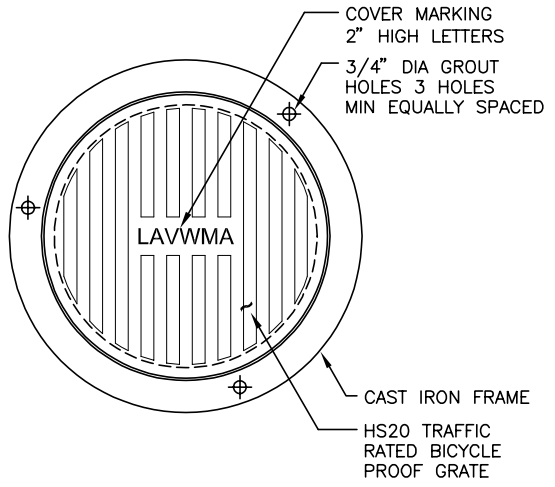


SECTION 1/D2

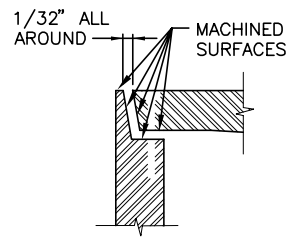
NOT TO SCALE

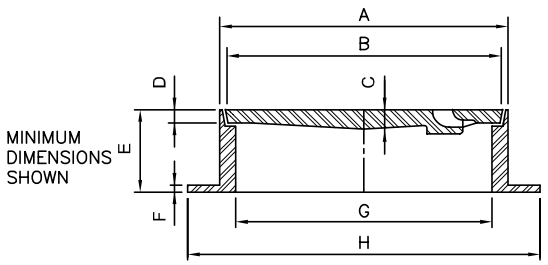


SOLID COVER PLAN



GRATED COVER PLAN





SECTION

SIZE OF OPENING	MINIMUM DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
24"	26 1/4	25 5/16	1 1/2	1 1/8	4 1/2	1/2	24	3 1/2
36"	39 1/2	37 15/16	2	1 1/2	4 1/2	1/2	36	42

MANHOLE FRAME AND COVER

DETAIL B/VAR

NOT TO SCALE

NOTES:

1. ~~COAT ALL PORTIONS OF THE WSP TO BE EMBEDDED IN CONCRETE AND COAT WITH AN EPOXY BONDING AGENT. APPLY BONDING PER MANUFACTURERS INSTRUCTIONS. WSP SPOOLS~~ ARE CML & CMC.
2. ~~ALL STEEL PLATES, NUTS AND BOLTS SHALL BE TYPE 316 STAINLESS STEEL.~~
3. SIZE AND QUANTITY OF NUTS, AND BOLTS SHALL CONFORM TO AWWA SPECIFICATION C-207.
4. ALL STEEL PLATES SHALL BE 1/4" TYPE 316 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
5. CAST IRON FRAME AND COVER SHALL BE CLASS 30 MINIMUM AS PER ASTM A-48. BEFORE LEAVING THE FOUNDRY, THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PAINT.
6. BEFORE LEAVING THE FOUNDRY, THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PAINT.
7. FRAME AND COVER SHALL EXCEED HS 20 WHEEL LOADING.
8. ORIENTATION OF ECCENTRIC CONE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER IN THE FIELD.
9. STEPS SHALL BE PER SPECIFICATION SECTION 02701. MAINTAIN 12" SPACING TO WITHIN 14" OF GRADE.
10. GROUNDWATER SHALL BE KEPT BELOW BASE OF EXCAVATION AT ALL TIMES DURING CONSTRUCTION.
11. BEDDING MATERIAL SHALL EXTEND TO THE LIMITS OF EXCAVATION.
12. PROVIDE 5' X 5' X 5' AREA OF BACKFILL STABILIZATION GROUT INJECTION FOR SOIL STABILIZATION AT PIPE PENETRATIONS INTO ACCESS PIT EXCAVATION PER DETAIL A/C422 PRIOR TO EXCAVATION.

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER)	DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL)	DATE: 05/NOV/02
APPROVED:	DATE:

BROWN AND CALDWELL

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE	22471
DRAWN	P. CHIN
DESIGNED	J. GLYNN
CHECKED	C. JOYCE
CHECKED	

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	HK	1/04	CWJ
VAR	2	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

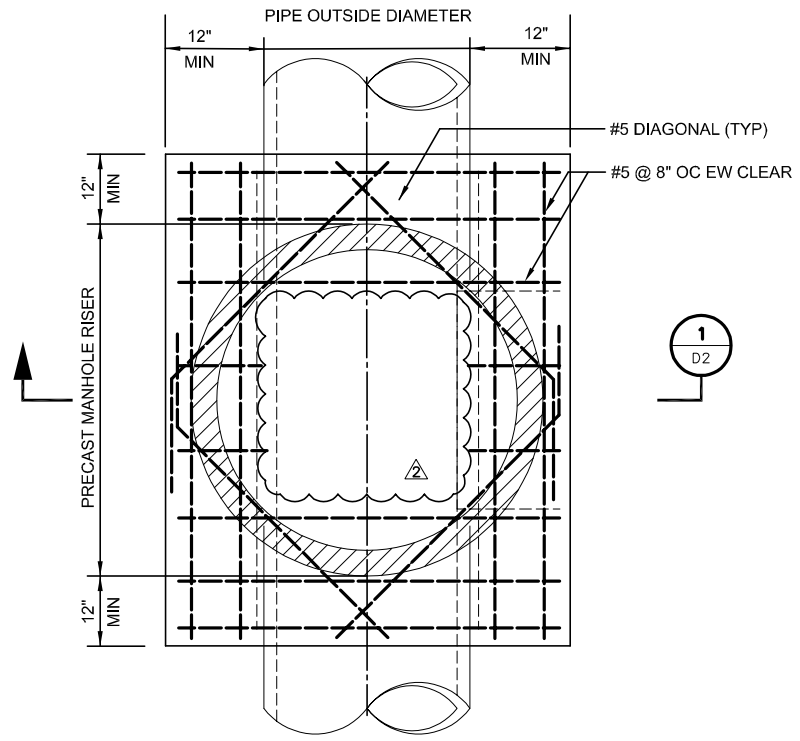
ACCESS MANWAY DETAILS

SCALE: NO SCALE

DRAWING NUMBER: **D2**

SHEET NUMBER: 48

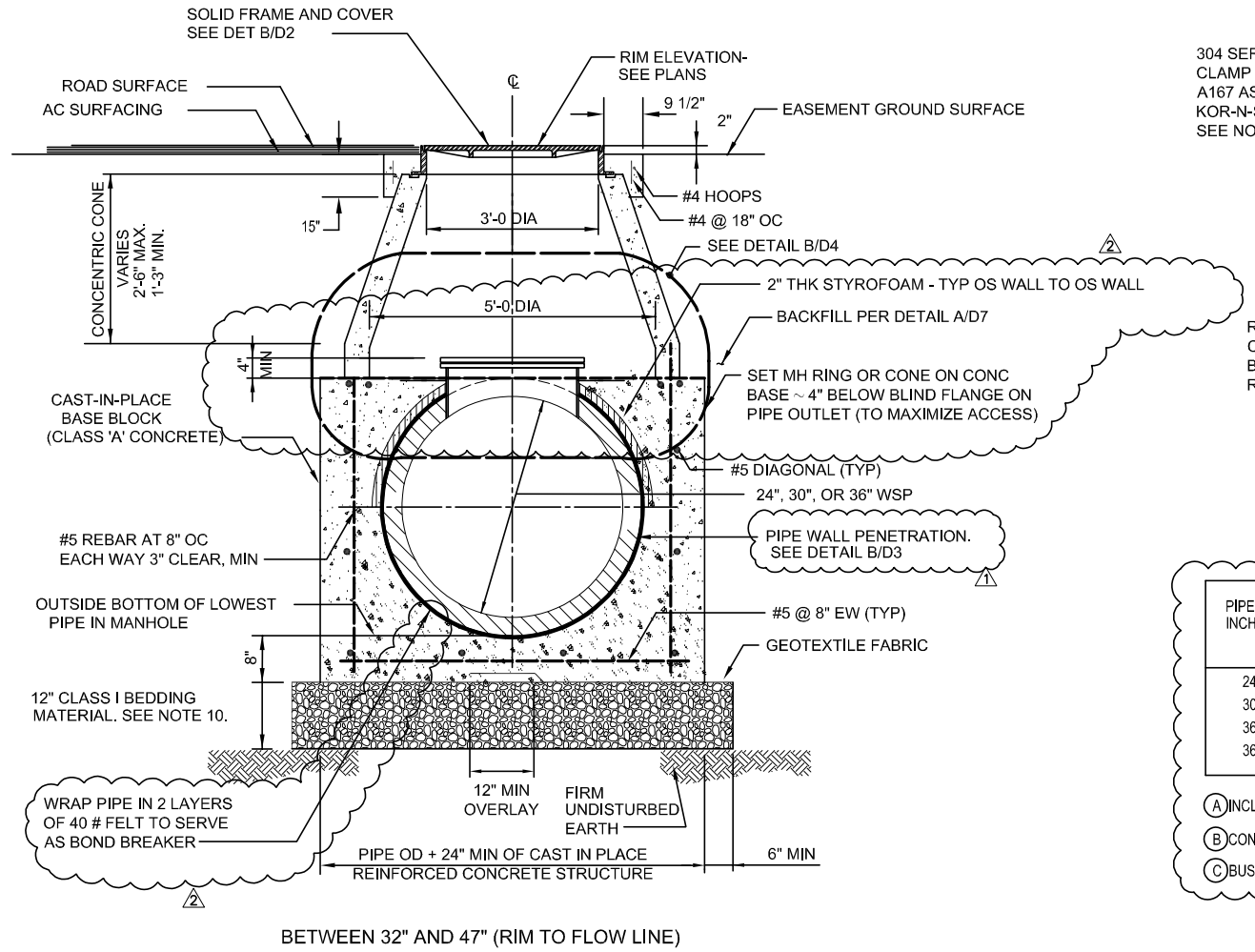
Filename: DC-D102 | Plot date: Jun 19, 2007-07:20:08am | Plotted by: zburke | Xref Filename: | BORDER | Image Filename: | lavwma.jpg
0000-000 1-03



PRESSURE ACCESS MANWAY

DETAIL A VAR

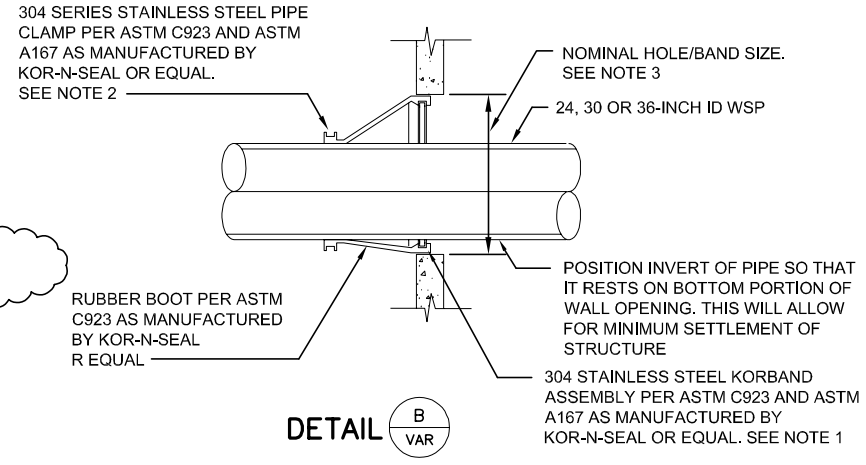
NOT TO SCALE



BETWEEN 32" AND 47" (RIM TO FLOW LINE)

SECTION 1 D2

NOT TO SCALE



DETAIL B VAR

NOT TO SCALE

PIPE ID INCHES	WALL THICKNESS INCHES	PIPE OD INCHES (A)	NON-STANDARD BOTT MODEL NO. B	NOMINAL HOLE/BAND SIZE- INCHES	BUSHING REQUIRED REQUIRED (C)
24	0.1046	25.71	S206-30L	32	YES
30	0.1345	31.77	S206-36L	38	YES
36	0.1875	37.875	S206-42L	44	YES
36	0.2500	38	S206-42L	44	YES

(A) INCLUDES WALL THICKNESS AND CEMENT MORTAR COATING

(B) CONTACT MANUFACTURER WITH ACTUAL FIELD DIMENSIONS BEFORE ORDERING.

(C) BUSHING SHALL BE A MINIMUM OF 2.6" WIDE RUBBER SHIM PER ASTM C923.

2

SEE DESIGN CLARIFICATIONS OF SEPT. 10, 2004 AND NOVEMBER 29, 2004, SEE DWG D4.

NOTES:

1. ~~COAT ALL PORTIONS OF THE WSP TO BE EMBEDDED IN CONCRETE AND COAT WITH AN EPOXY BONDING AGENT. APPLY BONDING PER MANUFACTURERS~~ INSTRUCTIONS. ~~WSP SPOOLS ARE CML AND CMC.~~ 2
2. ALL STEEL PLATES, NUTS AND BOLTS SHALL BE TYPE 316 STAINLESS STEEL.
3. SIZE AND QUANTITY OF NUTS, AND BOLTS SHALL CONFORM TO AWWA SPECIFICATION C-207.
4. ALL STEEL PLATES SHALL BE 1/4" TYPE 316 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
5. CAST IRON FRAME AND COVER SHALL BE CLASS 30 MINIMUM AS PER ASTM A-48. BEFORE LEAVING THE FOUNDRY, THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PAINT.
6. BEFORE LEAVING THE FOUNDRY, THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PAINT.
7. FRAME AND COVER SHALL EXCEED HS 20 WHEEL LOADING.
8. GROUNDWATER SHALL BE KEPT BELOW BASE OF EXCAVATION AT ALL TIMES DURING CONSTRUCTION.
9. ALL STEEL SHALL BE 3" CLEAR.
10. BEDDING MATERIAL SHALL EXTEND TO THE LIMITS OF EXCAVATION.
11. PROVIDE 5' X 5' X 5' AREA OF BACKFILL STABILIZATION GROUT INJECTION FOR SOIL STABILIZATION AT PIPE PENETRATIONS INTO ACCESS PIT EXCAVATION PER DETAIL A/C422 PRIOR TO EXCAVATION.

NOTES:

1. CONTRACTOR SHALL PLACE WEDGE ASSEMBLY CONNECTOR AT THE 3 O'CLOCK POSITION ON THE EXPANSION BAND.
2. CONTRACTOR SHALL INSPECT PIPE SURFACE TO ENSURE INSTALLATION OF PIPE CLAMP ON SMOOTH SURFACE PER MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.
3. HOLE SHALL BE SUITABLE FOR INSTALLATION OF FLEXIBLE CONNECTION PER MANUFACTURER'S RECOMMENDATION.
4. PRE-CAST STRUCTURES SHALL ACCOMMODATE FLEXIBLE PIPE TO STRUCTURE CONNECTION. BOOT SHALL BE INSTALLED PRIOR TO WELDING INSTALLATION OF PIPE.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	HK	1/04	CWJ
VAR	2	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

ACCESS MANWAY DETAILS

SCALE: NO SCALE
DRAWING NUMBER: D3
SHEET NUMBER: 49

Filename: DC-D103 | Plot date: Jun 19, 2007-10:25:40am | Plotted by: zburke | Xref Filename: | BORDER | Image Filename: | lavwma.jpg | 0000-000 1-03

DESIGN CLARIFICATION

LAVWMA EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION PROJECT
PROJECT NO. 2003-01

BY BROWN AND CALDWELL

September 27, 2004

Subject: 24-inch Pipe Steel Outlets "H" Length for ARV vaults (Detail B, Drawing No. D4)

For steel pipe flanges with a pressure rating greater than or equal to 200 psi but less than 300 psi, the "H" length for ARV vaults as defined in Detail B, Drawing No. D4 shall be 6 inches.

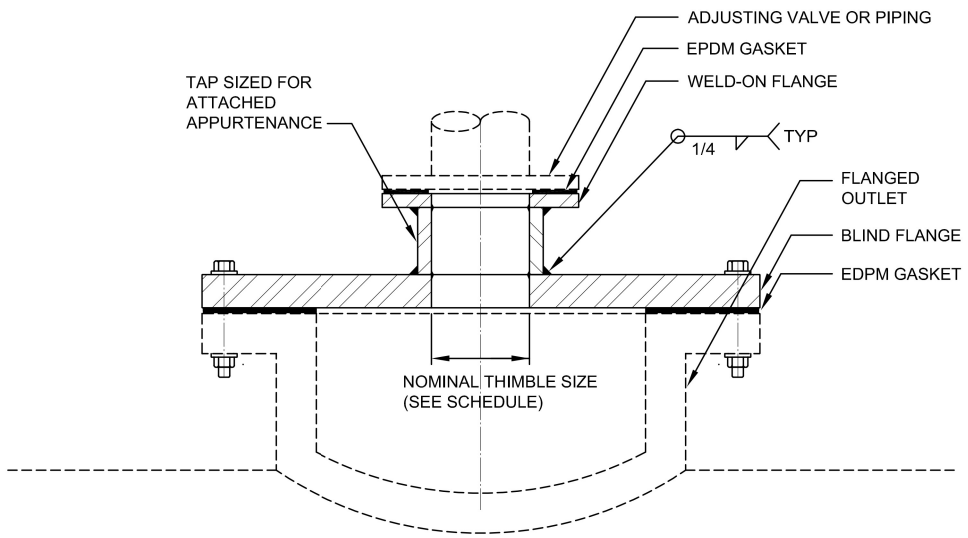
For steel pipe flanges with a pressure rating greater than or equal to 300 psi, the "H" length for ARV vaults as defined in Detail B, Drawing No. D4 shall be 8 inches.

The vault located at access pit #16 will contain a pipe flange with a pressure rating of 250 psi. Therefore, the new "H" height as defined in Detail B, Drawing No. D4 shall be 6 inches. The additional length in the pipe outlet will eliminate any headroom for the air release valve as designed. Therefore, the contractor shall provide 3-inches of cover over the vault and 3-inches of headroom between the top of the ARV valve and the roof of the vault. The contractor shall also switch the locations of the 24-inch and 36-inch openings such that the 36-inch opening shall be centered over the air valve and the 24-inch opening shall allow access to the steps. This will allow for easier access and maneuverability of the air release valve vault during maintenance with the limited headroom that will be available in this vault.

The vault located at access pit #21 will contain a pipe flange with a pressure rating of 250 psi. Therefore, the new "H" height as defined in Detail B, Drawing No. D4 shall be 6 inches. The additional 2 inches added to the "H" height shall increase the distance that the manhole protrudes out of the ground by an additional 2 inches. In order to maintain the 6-inch minimum cover over the vault, the contractor shall slope the grade around the manhole frame and cover to match the existing grade within a 10-foot radius of the edge of the structure.

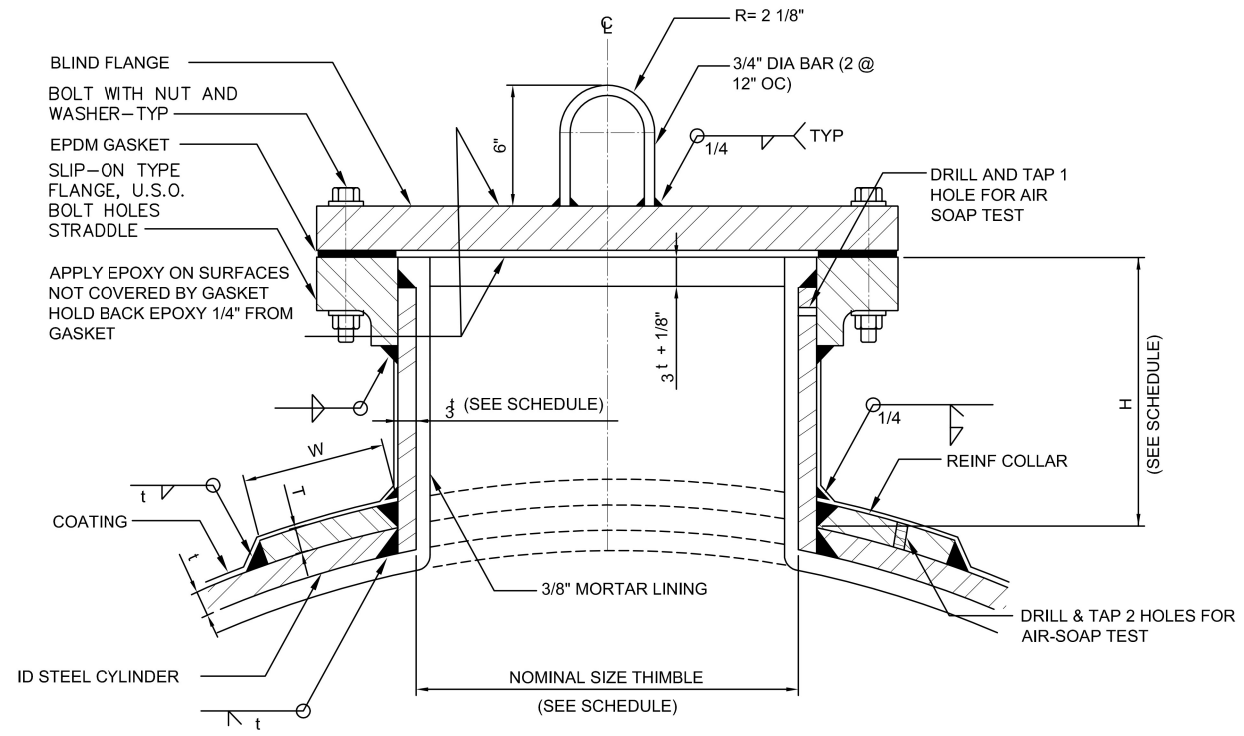
1 There should be sufficient room within the remaining vaults to accommodate the larger "H" lengths.

** ATTACH #1 CCO No. 0003



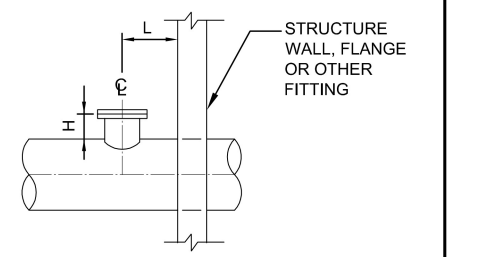
BLIND FLANGE FOR AIR VALVE

DETAIL A / VAR



OUTLET/RISER REINFORCING COLLAR SCHEDULE

NOMINAL THIMBLE SIZE	t_3	COLLAR DIMENSIONS W	COLLAR DIMENSIONS T	** 'H' LENGTH MINIMUM	'L' LENGTH MINIMUM
4"	STD	2"	SEE SPECS	4"	2'-0"
8"	STD	4"	SEE SPECS	4"	2'-6"
12"	STD	6"	SEE SPECS	4"	2'-8"
24" *	STD	12"	SEE SPECS	† 4"/12"	3'-9" *



* LENGTH 'L' = MINIMUM DISTANCE FROM CENTERLINE OF OUTLET TO END OF PIPE. THIMBLE OD AND THICKNESS (t3) PER ANSI B36.10. LENGTH 'L' MAY BE LESS FOR COMBINATION AIR VALVE ASSEMBLIES. SEE DWG D1.

HEIGHT 'H' = MINIMUM DISTANCE FROM OUTSIDE DIAMETER OF PIPE TO INSIDE FACE OF FLANGE.

THICKNESS 't' = THICKNESS OF STEEL CYLINDER AS SHOWN ON THE PLAN AND PROFILE DRAWINGS.

† CONTRACTOR SHALL USE 24" PIPE STEEL OUTLETS WITH A 4" 'H' LENGTH FOR AIR VALVE VAULTS AND A 12" 'H' LENGTH FOR ACCESS MANWAYS.

TYPICAL STEEL PIPE OUTLET

DETAIL B / VAR

** 'H' LENGTH – SEE DESIGN CLARIFICATION OF SEPT 27, 2004 ON THIS DRAWING. 1

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

PIPE OUTLET DETAILS

SCALE: NO SCALE
DRAWING NUMBER: **D4**
SHEET NUMBER: 50

Filename: DC-D104 | Plot date: Jun 19, 2007–10:24:09am | Plotted by: zburke | Xref Filename: D4SCAN1.TIF | Image Filename: lavwma.jpg | X–BORDER | 1=1 | PC | 1–03 | DC–02

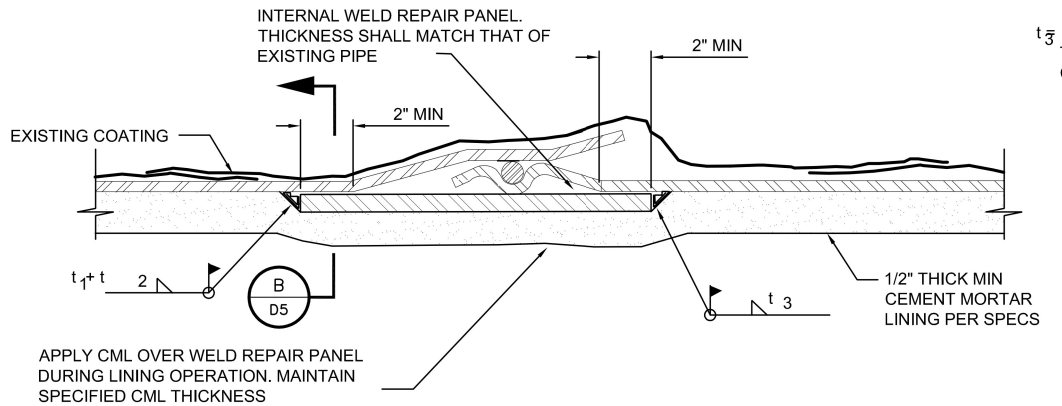
Filename: | X-BORDER | Image Filename: | D5SCAN1.TIF | D5SCAN2.TIF | lavwma.jpg
Filename: DC-D105 Plot date: Jun 19, 2007-10:27:10am Plotted by: zburke Xref Filename:
1=1
DC-D103 11-10-00 PC

LEGEND:

t_1 THICKNESS OF WSP STEEL CYLINDER AT THINNER WALL SIDE OF JOINT

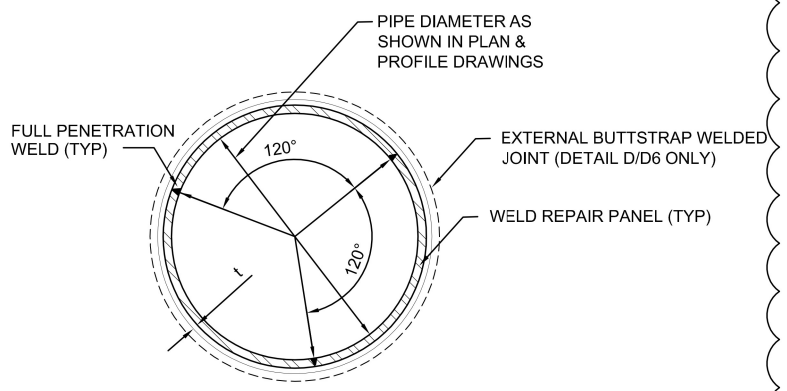
t_2 THICKNESS OF FILLER BAR

t_3 THICKNESS OF WSP AT THICKER WALL SIDE OF CLOSURE



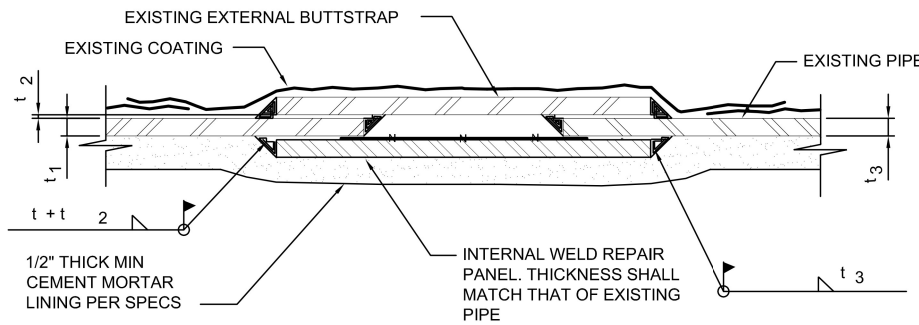
INTERNAL WELD REPAIR BELL AND SPIGOT JOINT

DETAIL A / D5



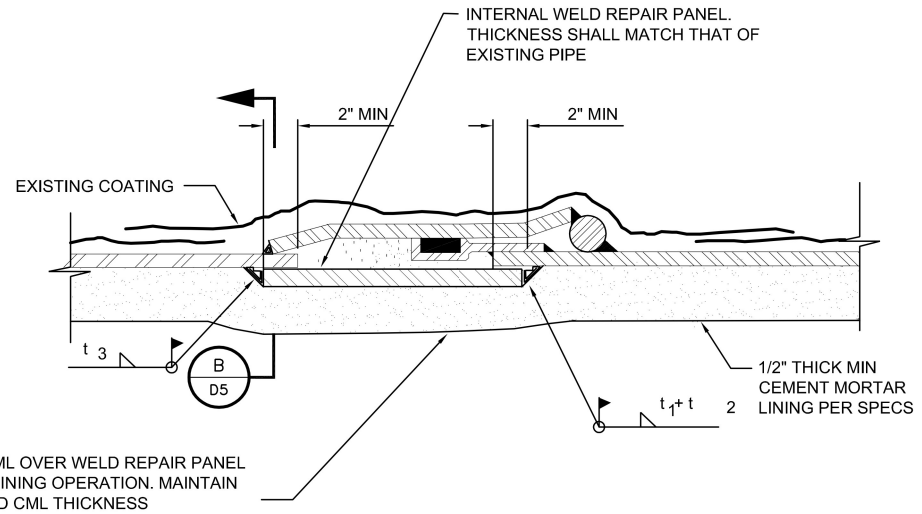
INTERNAL WELD REPAIR

SECTION B / D5



INTERNAL WELD REPAIR WELDED JOINT

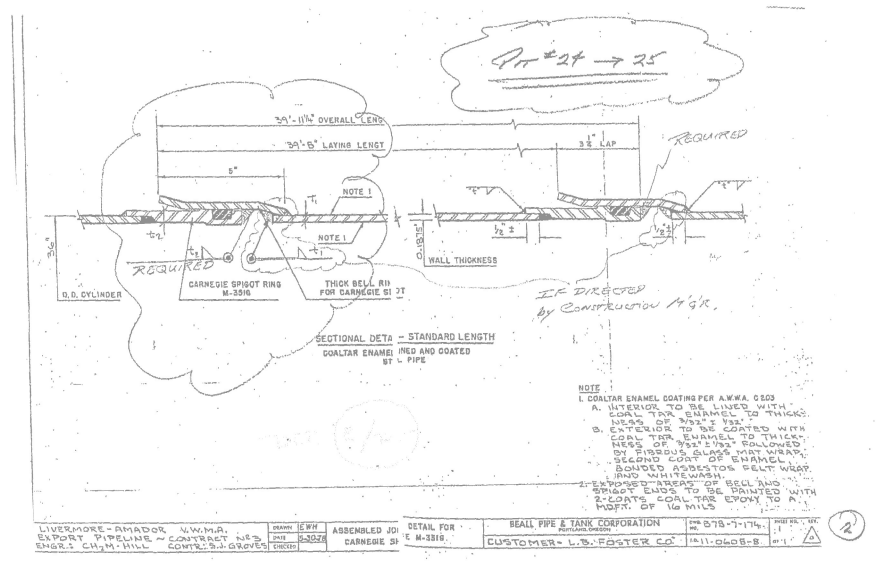
DETAIL D / D5



INTERNAL WELD REPAIR CARNEGIE JOINT

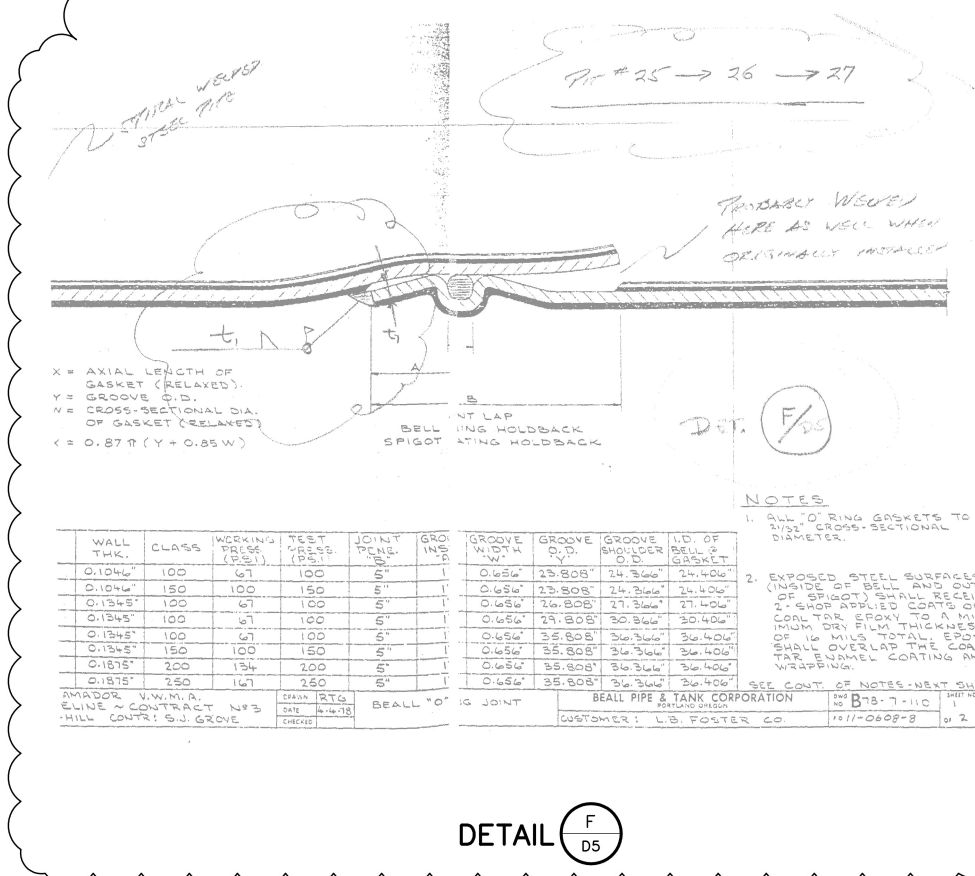
DETAIL C / D5

CCO No. 00005



Pg. 1 of 2, ATTACH #2 CCO No. 00005

DETAIL E / D5



WALL THK.	CLASS	WORKING PRESS. (PSI)	TEST PRESS. (PSI)	JOINT DEFL. (β)	GROOVE INSIDE
0.1046"	100	67	100	5°	1
0.1046"	150	100	150	5°	1
0.1345"	100	67	100	5°	1
0.1345"	100	67	100	5°	1
0.1345"	100	67	100	5°	1
0.1345"	150	100	150	5°	1
0.1875"	200	134	200	5°	1
0.1875"	250	167	250	5°	1

GROOVE WIDTH W	GROOVE O.D. Y	GROOVE SHOULDER O.D.	I.D. OF BELL & GASKET
0.656"	23.808"	24.336"	24.406"
0.656"	23.808"	24.336"	24.406"
0.656"	26.808"	27.336"	27.406"
0.656"	29.808"	30.336"	30.406"
0.656"	35.808"	36.336"	36.406"
0.656"	35.808"	36.336"	36.406"
0.656"	35.808"	36.336"	36.406"
0.656"	35.808"	36.336"	36.406"

AMADOR V.W.M.A. EXPORT PIPELINE - CONTRACT NO 3 CLYM-HILL CONTR: B.J. GROVE
DRAWN TRG
DATE 4-16-75
CHECKED
BEALL "O" ING JOINT
BEALL PIPE & TANK CORPORATION PORTLAND OREGON
CUSTOMER: L.B. FOSTER CO.
DWG NO B-78-7-11C
JOB NO 10-11-0608-8
SHEET NO 1 of 2

DETAIL F / D5

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES
PIPELINE REHABILITATION REPAIR PROGRAM
PROJECT 2002-01

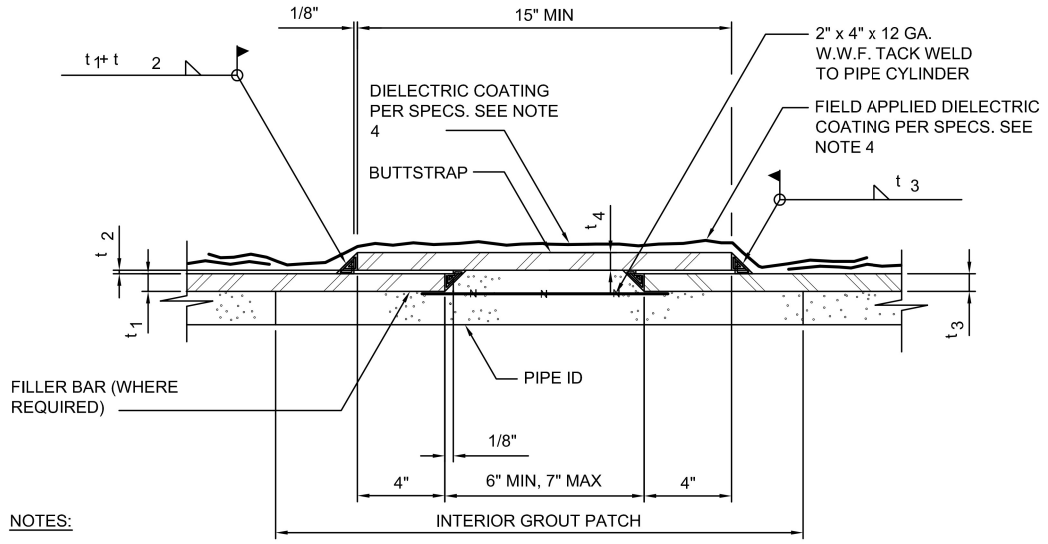
CIVIL

STEEL PIPE DETAILS 1

SCALE: NO SCALE
DRAWING NUMBER: **D5**
SHEET NUMBER: 51

EXISTING STEEL PIPE THICKNESS				
FROM STA	TO STA	NOMINAL PIPE DIAMETER (INCHES)	WALL THICKNESS (INCHES)	CLASS
0+61.33	25+90	24	0.1046	100
25+90	37+30	30	0.1345	100
37+30	86+75	36	0.1345	150
86+75	124+92	36	0.1875	200
124+92	159+82	36	0.1875	250
159+82	END	36	0.2500	300

DETAIL A VAR



NOTES:

1. WHEN $t = t_1 - t_3$ (IDENTICAL PIPE MATERIALS) FILLER BAR NOT REQUIRED.
2. PROVIDE TWO HANDHOLES PER BUTTSTRAP. SEE DET C/D6.
3. IF BUTTSTRAP IS INSTALLED AFTER HYDRO TEST, PROVIDE INTERIOR WELDS AND AIR TEST HOLES TO TEST BUTTSTRAP JOINT.
4. HOLD BACK FACTORY-APPLIED DIELECTRIC COATING 4" FROM ALL FIELD-WELDED JOINTS. AFTER WELDING, CLEAN AND APPLY ~~FIELD-APPLIED DIELECTRIC COATING. SUBSEQUENTLY~~, DSG-CANUSA HEAT SHRINK JOINT TAPE TYPE "DV TAPE" OR APPROVED EQUAL (RAYCHEM) SHALL BE APPLIED ON THE OUTSIDE OF THE JOINT, OVER THE DIELECTRIC COATING.

1

LEGEND:

t_1 = THICKNESS OF WSP STEEL CYLINDER AT THINNER WALL SIDE OF JOINT

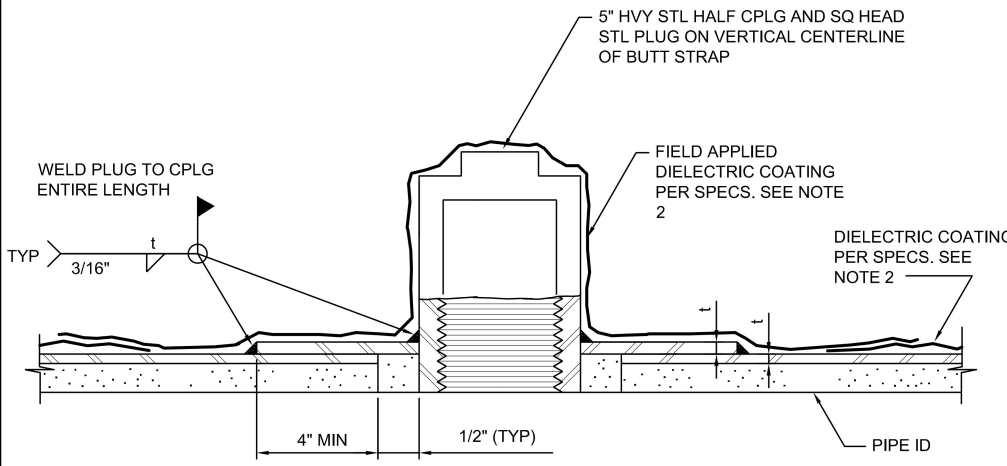
t_2 = THICKNESS OF FILLER BAR

t_3 = THICKNESS OF WSP AT THICKER WALL SIDE OF CLOSURE

t_4 = THICKNESS OF BUTTSTRAP SHALL MATCH THICKNESS OF EXISTING PIPE

BUTTSTRAP CLOSURE

DETAIL B VAR



NOTES:

1. PROVIDE HANDHOLES WHERE INDICATED ON THE DRAWINGS AND AS NEEDED FOR PIPELINE INSTALLATION.
2. HOLD BACK FACTORY-APPLIED DIELECTRIC COATING 4" FROM ALL FIELD-WELDED JOINTS. AFTER WELDING, CLEAN AND APPLY FIELD-APPLIED DIELECTRIC COATING. SUBSEQUENTLY, DSG-CANUSA HEAT SHRINK JOINT TAPE TYPE "DVTAPE" OR APPROVED EQUAL SHALL BE APPLIED ON THE OUTSIDE OF THE JOINT, OVER THE DIELECTRIC COATING.
3. NO VOIDS UNDER CANUSA. BUILD W/MASTIC AT PROTRUSIONS.

HANDHOLE

DETAIL C VAR

Raychem **WPCT***

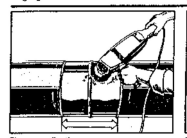
Wrap-around Pipe Sleeve with Thermal Indicator
Installation Instructions

WPCT-045/PIS-01/01

For proper selection of Tyco Adhesives joint protection materials, see Product Selection Guide or contact Tyco Adhesives.

Materials and equipment
1. Appropriate size WPCT sleeve and WPCP IV closure patch
2. Raychem torch (or equivalent)
3. Propane gas tank, hose, regulator and gauge
4. Standard safety equipment such as gloves, goggles, hard hat, etc.

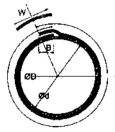
Installation has to be done according to local government regulations and usual safety precautions.



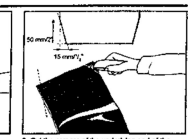
Sleeve application
1. Clean exposed steel and adjacent pipe coating to be covered by WPCT sleeve with a hand or power wire brush, to remove loose and foreign materials. Wiping may be necessary to remove the particles from cleaning.
Note:
Coal tar - remove outer paper wrap 5" (125 mm) to 6" (150 mm) adjacent to cut-back to expose coal tar.
Painted coatings - remove whitewash paint on the surface of coating to be covered by WPCT sleeve.



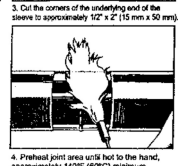
2. Cut the sleeve to the ~~work~~ length according to below table.



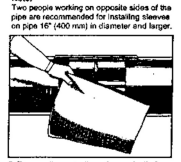
Ø D mills Inches (0.001)	Ø d mm	C inches/mm	B in./mm	W in./mm
2375	50	12/305	2/50	4/100
2975	65	13/330	2/50	4/100
3500	80	15/380	2/50	4/100
4000	90	18/460	2/50	4/100
4500	100	19/480	2/50	4/100
5563	125	21,5/550	2/50	4/100
6625	150	25/640	2/50	4/100
8625	200	31,5/800	2/50	4/100
10750	250	38,5/980	2/50	4/100
12750	300	45,5/1150	2/50	4/100
14000	350	49,5/1260	2/50	4/100
16000	400	56/1420	2/50	4/100
18000	450	62,5/1590	2/50	4/100
20000	500	69,5/1770	2/50	6/150
22000	550	77/1950	2/50	6/150
24000	600	83/2110	2/50	6/150
26000	650	89,5/2270	2/50	6/150
28000	700	96,5/2430	2/50	6/150
30000	750	102,5/2600	2/50	6/150
32000	800	108,5/2760	2/50	6/150
34000	850	115,5/2930	2/50	6/150
36000	900	122/3100	2/50	6/150



3. Cut the corners of the underlying end of the sleeve to approximately 1/2" x 2" (15 mm x 50 mm).

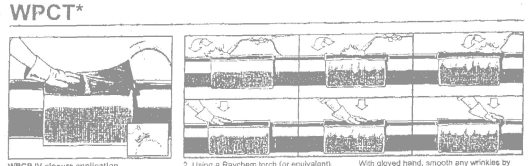


4. Preheat joint area until hot to the hand, approximately 140°F (60°C) minimum. Preheating reduces installation time and ensures proper bonding.
Note:
Two people working on opposite sides of the pipe are recommended for installing sleeves on pipe 16" (400 mm) in diameter and larger.



5. Remove the protective release plastic from the coated sleeve. Center sleeve over the weld so it is evenly overlapping adjacent pipe coating. Wrap loosely around pipe so that the Raychem logo runs around the pipe.
Note:
1) Clean overlap area of the sleeve to remove dirt and other foreign materials.
2) Edges of sleeve should extend 2" or more onto adjacent pipe coating.
3) Overlapping ends of sleeve should align evenly.
4) Position overlap to permit easy access for installing closure.

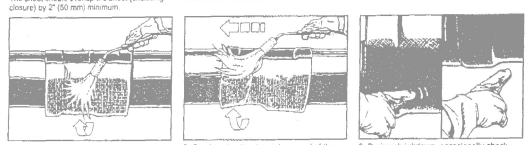
WPCT*



WPCP IV closure application
1. Press WPCP IV closure in position, centering over the exposed sheet end. (For UNSLEEVE products, the closure is pre-attached and already centered in position.)
The sheet should overlap the sheet (excluding closure) by 2" (50 mm) minimum.

2. Using a Raychem torch (or equivalent), adjust flame length to approximately 20" (500 mm) to produce a blue tipped yellow flame. Using the yellow portion of the flame, heat the closure evenly until the pattern of the fabric reinforcement is visible.

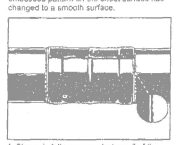
With gloved hand, smooth any wrinkles by working outward from the center.



Sleeve recovery
1. Using the Raychem torch (or equivalent), begin at the center of the sleeve and heat circumferentially around the pipe, using a constant paintbrush motion, until the embossed pattern on the sheet surface has changed to a smooth surface.

2. Continue heating toward one end of the sleeve, followed by the other.
Note:
Sleeve may be recovered starting at one end and proceeding toward the opposite end, depending on conditions (i.e., wind).

3. During shrinkdown, occasionally check adhesive flow with a finger. Wrinkles should disappear automatically. Remember to wear gloves.
Note:
While sleeve is hot, press or roll overlap and closure area to remove any air voids.



4. Sleeve is fully recovered when all of the following have occurred:
1) The WPCT sheet has a smooth surface.
2) There are no cold spots on the sleeve surface.
3) Weld bead profile can be seen through the sleeve.
4) After sleeve is cool, mastic flow is evident on both edges.
5) The sleeve has fully conformed to the pipe and adjacent coating.
6) The pattern on the backing has disappeared and the backing has a smooth surface.

* WPCT is a trademark of Tyco.

Tyco Adhesives
Corrosion Protection Group
www.TycoAdhesives.com

Headquarters:
Tyco Adhesives
1400 Providence Hwy
Norwood, MA 02062 USA
Intl Tel: +1 781 440-6161
US Toll Free: +1 800-248-6149
Fax: +1 781 440-0271
E-mail: CPG@TycoAdhesives.com

In Europe, Middle East, Africa, Asia & Pacific:
Tyco Adhesives B.V.B.A.
Nieuwlandlaan 515
B-3200 Aarschot, Belgium
Tel: +32 16 55 36 00
Fax: +32 16 55 36 74
E-mail: CPGE@TycoAdhesives.com

In the Americas:
Tyco Adhesives L.P.
1075 Sotta C Brandywine Avenue
Chula Vista, CA 91911 USA
Tel Mexico: +52 (55) 53-30-10
Tel US: +1 (619) 4 24 42 59
Fax Mexico: +52 (55) 53-64-63
Fax US: +1 (619) 4 24 42 58
E-mail: CPGT-M@TycoAdhesives.com

© Raychem

1

BROWN AND CALDWELL	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)	**RECORD DRAWING**	REVISIONS

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAWWMA **LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY**

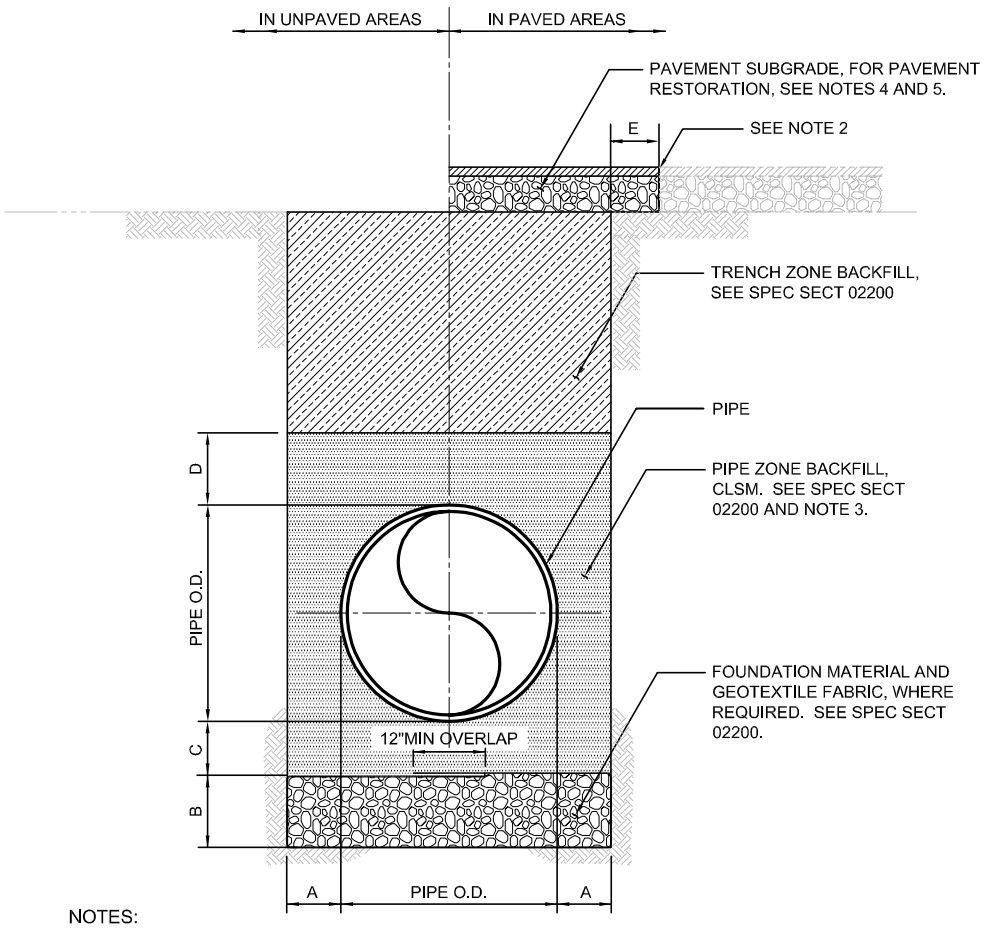
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

STEEL PIPE DETAILS 2

SCALE: NO SCALE
DRAWING NUMBER: **D6**
SHEET NUMBER: 52

Filename: DC-D106 | Plot date: Jun 19, 2007–10:28:49am | Plotted by: zburke, Xref Filename: | 1=1 | PC | DC-D105 | 1-03 | X-BORDER | Image Filename: | D6SCAN1.TIF | D6SCAN2.TIF | lavwma.jpg



NOTES:

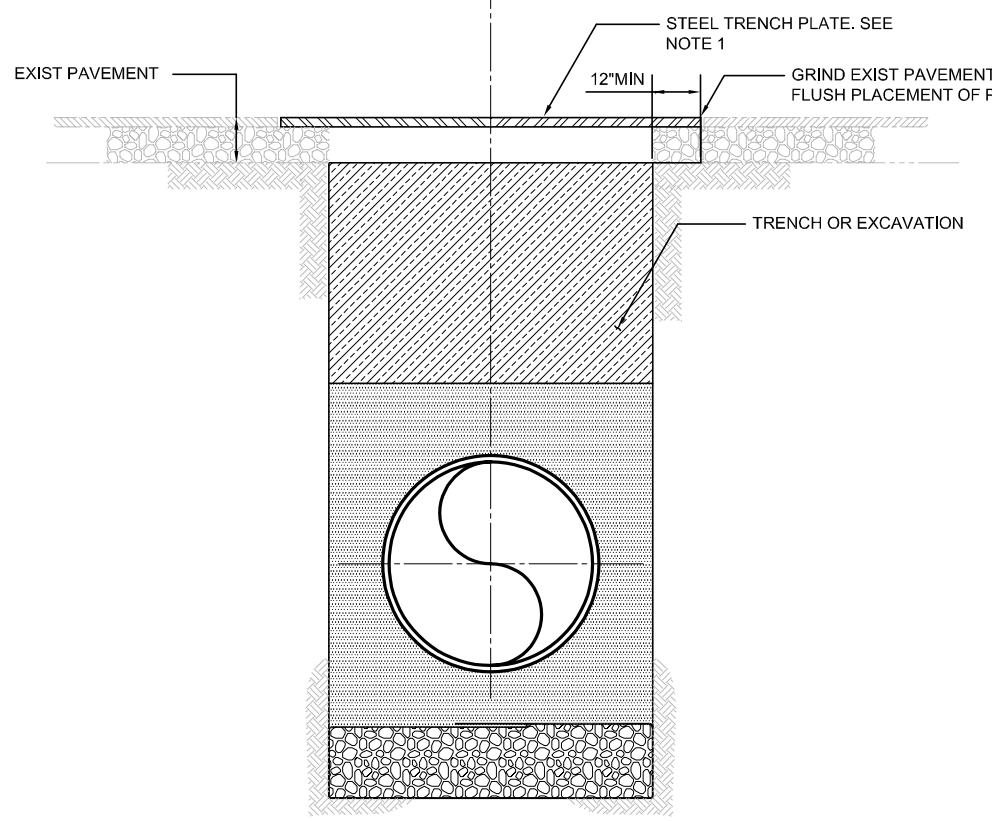
1. TRENCH WALLS SHALL BE VERTICAL. SLOPING OF TRENCH WALLS IS NOT PERMITTED.
2. SAWCUT AC AND REMOVE FULL DEPTH.
3. CONTRACTOR SHALL PLACE CLSM IN LIFTS OR SUITABLY BLOCK OR BRACE PIPE TO PREVENT PIPE FLOTATION.
4. PAVEMENT REPLACEMENT SHALL MATCH EXIST. STRUCTURAL SECTION, OR BE 3" AC OVER 15" AB MIN., WHICHEVER IS GREATER. EXISTING SURFACE FEATURES LIKE CONCRETE STORM DRAIN INLETS, CURB, GUTTER AND SIDEWALKS SHALL BE REPLACED TO MATCH EXISTING AND CONFORM TO CURRENT ACPWA OR CITY OF PLEASTON STANDARDS FOR SAID FEATURES. WHERE SAW CUT EDGE OF PAVEMENT IS 4' OR LESS FROM EDGE OF CURB OR CURB/GUTTER ALL PAVEMENT SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO OWNER.
5. WHERE EXIST CONCRETE SLAB IS ENCOUNTERED BENEATH EXIST AC SURFACE, CONCRETE SHALL BE NEATLY SAWCUT, REPLACED TO MATCH EXIST THICKNESS, AND DOWELED IN TO EXISTING SLAB PER ACPWA STANDARD DETAIL SD-518 OR CITY OF PLEASANTON STANDARDS.
6. FROM STA 0+00 TO STA 93+84, CONTRACTOR SHALL REMOVE AND REPLACE EXISTING PAVEMENT SECTION THAT IS LESS THAN 12 FEET FROM OR WITHIN THE ROADWAY WHEEL TRACK BETWEEN THE RECENTLY CONSTRUCTED DUBLIN CANYON LAVWMA FORCE MAIN AND THIS PROJECT'S PAVEMENT REPLACEMENT SECTION. THE LONGITUDINAL RECONSTRUCTION LIMIT SHALL BE LOCATED OUTSIDE THE FUTURE BIKE ROUTE TO MINIMIZE AN ASPHALT GAP AND/OR UNEVEN ROADWAY SURFACE FOR BICYCLISTS.

TABLE OF TRENCH AND ACCESS PIT DIMENSIONS AND TRENCH/ACCESS PIT ZONE MATERIAL (MINIMUM REGULATORY REQUIREMENTS) 1

FROM STATION	TO STATION	DIMENSIONS IN INCHES					TRENCH ZONE MATERIAL	
		A	B	C	D	E	IN UNPAVED AREAS	IN PAVED AREAS
0+00	93+86	36" MAX	6 MIN	O.D./4, 4 MIN	12 MIN	12	NATIVE SOIL	CLASS II AB
93+86	END OF PROJECT	36" MAX	6 MIN	O.D./4, 6 MIN	12 MIN	6	NATIVE SOIL	CLASS II AB

1

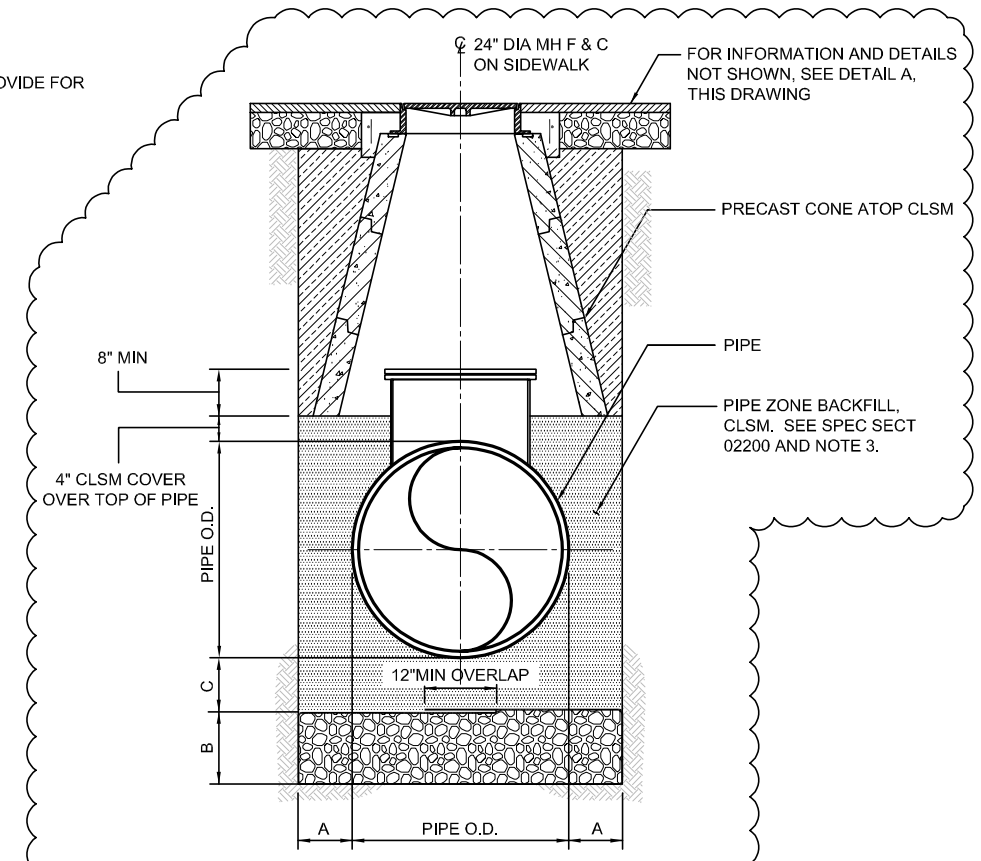
TYPICAL TRENCH AND ACCES PIT SECTION
DETAIL A/VAR 1
NOT TO SCALE



NOTES:

1. TRENCH PLATE DESIGN BY CONTRACTOR AND SHALL COMPLY TO ALL APPLICABLE CALTRANS STANDARDS. TRENCH PLATES WIDER THAN 8 FEET SHALL BE DESIGNED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER. THIS DESIGN SHALL BE SUBMITTED AS PART OF THE CONTRACTOR'S SHORING DESIGN.

TRENCH PLATE
DETAIL B/VAR
NOT TO SCALE



TYPICAL TRENCH AND ACCESS PIT SECTION FOR ACCESS PITS NOS. 1, 2, AND 4
DETAIL C/VAR
NOT TO SCALE

2

BROWN AND CALDWELL	RECORD DRAWING	LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER, DATE: 05/NOV/01	THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.	EXPORT PIPELINE FACILITIES PIPELINE REHABILITATION REPAIR PROGRAM PROJECT 2003-01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL, DATE: 05/NOV/02		CIVIL
APPROVED: ____ DATE: ____		MISCELLANEOUS DETAILS 1

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

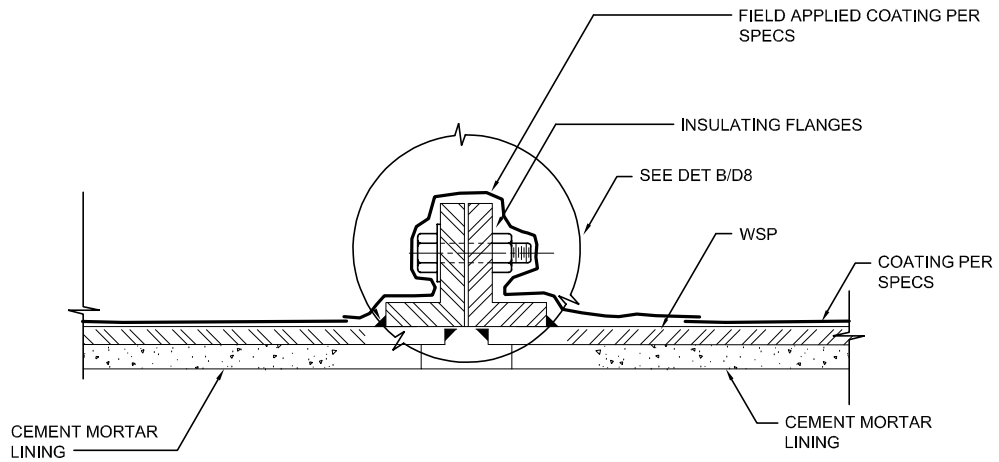
FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED ____

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	HK	1/04	CWJ
VAR	2	RECORD DRAWING	TU	5/06	CWJ

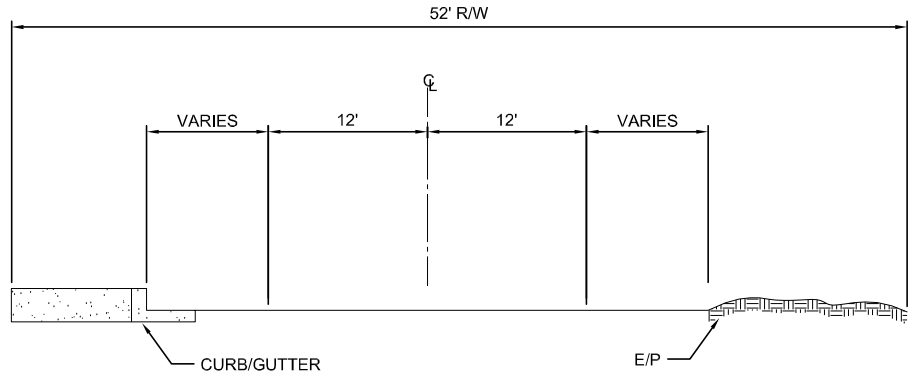
SCALE: NO SCALE
DRAWING NUMBER: D7
SHEET NUMBER: 53

Filename: DC-D107 | Plot date: Jun 19, 2007-10:29:26am | Plotted by: zburke | Xref Filename: X-BORDER | Image Filename: lavwma.jpg
DC-D103 1-03 PC 1=1



INSULATING JOINT FOR STEEL PIPE

DETAIL A VAR



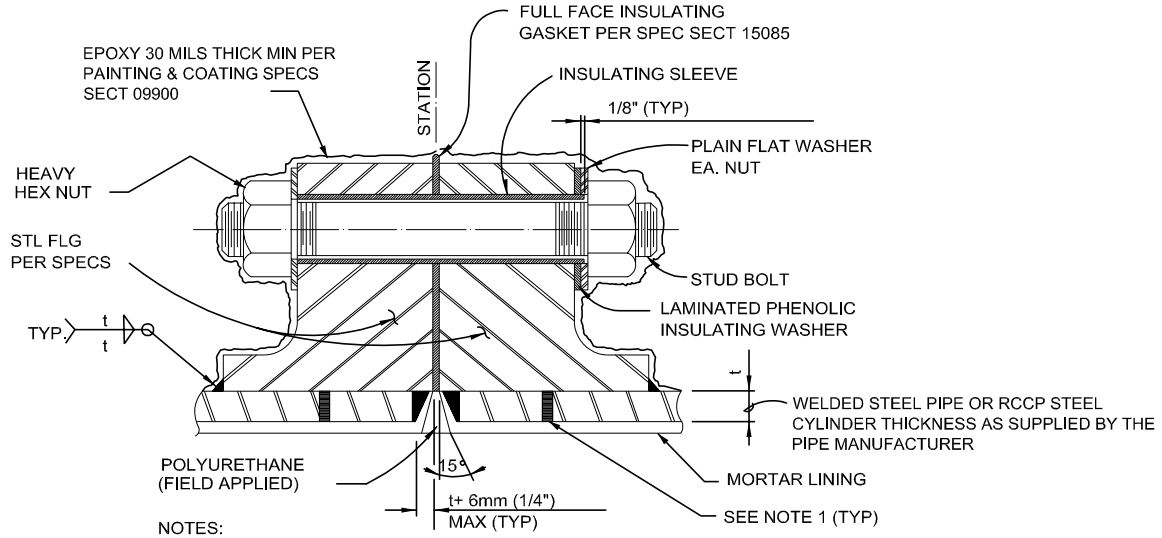
NOTES:

1. CONTRACTOR SHALL USE THIS ROADWAY SECTION FOR STRIPING PLAN AFTER PAVING UNLESS ROADWAY SECTION HAS NOT BEEN UPGRADED. IF EXISTING ROADWAY SECTION DOES NOT MATCH THIS DETAIL, CONTRACTOR SHALL PROVIDE STRIPING PLAN TO MATCH EXISTING.

FROM STA 0+00 TO STA 93+84

ALAMEDA COUNTY ROADWAY SECTION

DETAIL C VAR



NOTES:

1. DRILL & TAP CYLINDER FOR ¾" PIPE BEFORE WELDING FLANGE. CONTRACTOR TO AIR AND SOAP TEST AFTER WELDING IS COMPLETE. PLUG WELD HOLE AFTER SUCCESSFUL COMPLETION OF JOINT TEST. USE TWO (2) HOLES AT 180 DEGREES APART AT EACH FLANGE.

WELDED STEEL OR CONCRETE CYLINDER TO STEEL OR

CONCRETE CYLINDER INSULATING FLANGES

DETAIL B VAR

BROWN AND CALDWELL	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)	**RECORD DRAWING**
SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01	FILE 22471	THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02	DRAWN P. CHIN
APPROVED: DATE:	DESIGNED J. GLYNN
	CHECKED C. JOYCE
	CHECKED

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES
PIPELINE REHABILITATION REPAIR PROGRAM

CIVIL

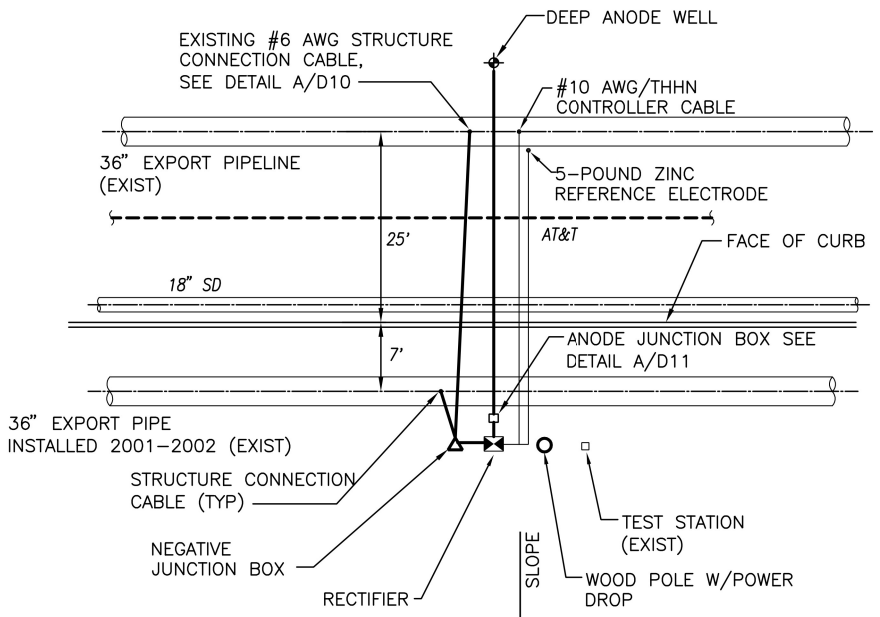
MISCELLANEOUS DETAILS 2

SCALE: NO SCALE

DRAWING NUMBER: **D8**

SHEET NUMBER: 54

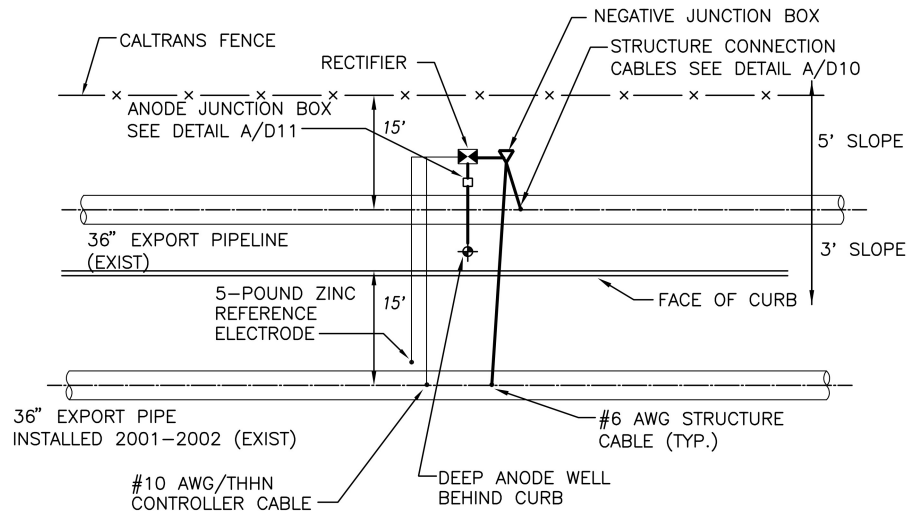
DC-D108 | 1-03 | PC | 1=1 | Filename: DC-D108 | Plot date: Jun 19, 2007-10:24:46am | Plotted by: zburke | Xref Filename: | X-BORDER | Image Filename: | lavwma.jpg



CPS – STATION 83+50± – EXISTING INSTALLATION

DETAIL A/D9

NO SCALE

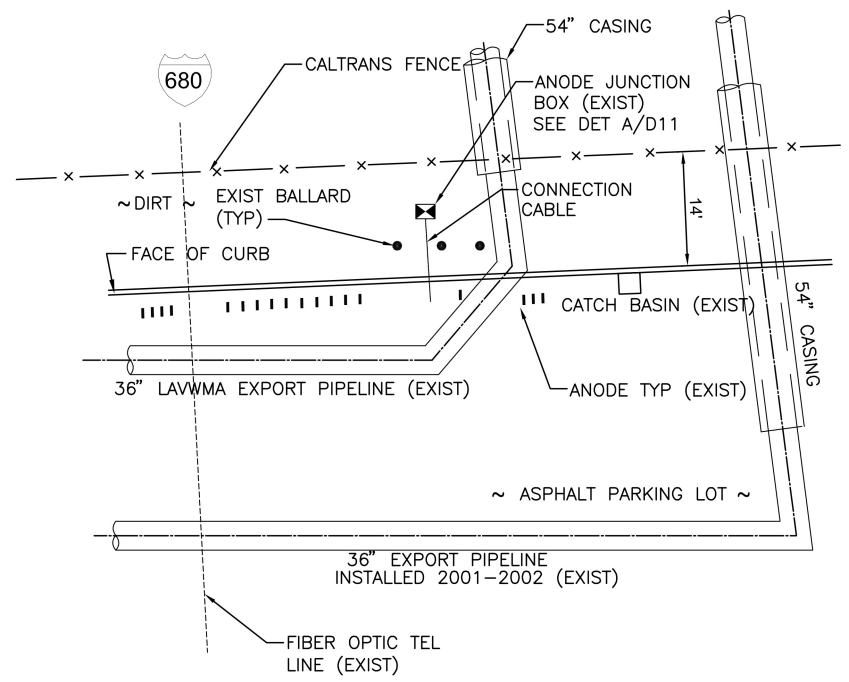


NOTE:
A.C. POWER SUPPLY TO EXISTING RECTIFIER AND LOCATION OF AC CONDUCTORS TO RECTIFIER IS UNKNOWN.

CPS – STATION 195+00 ± – EXISTING INSTALLATION

DETAIL B/D9

NO SCALE



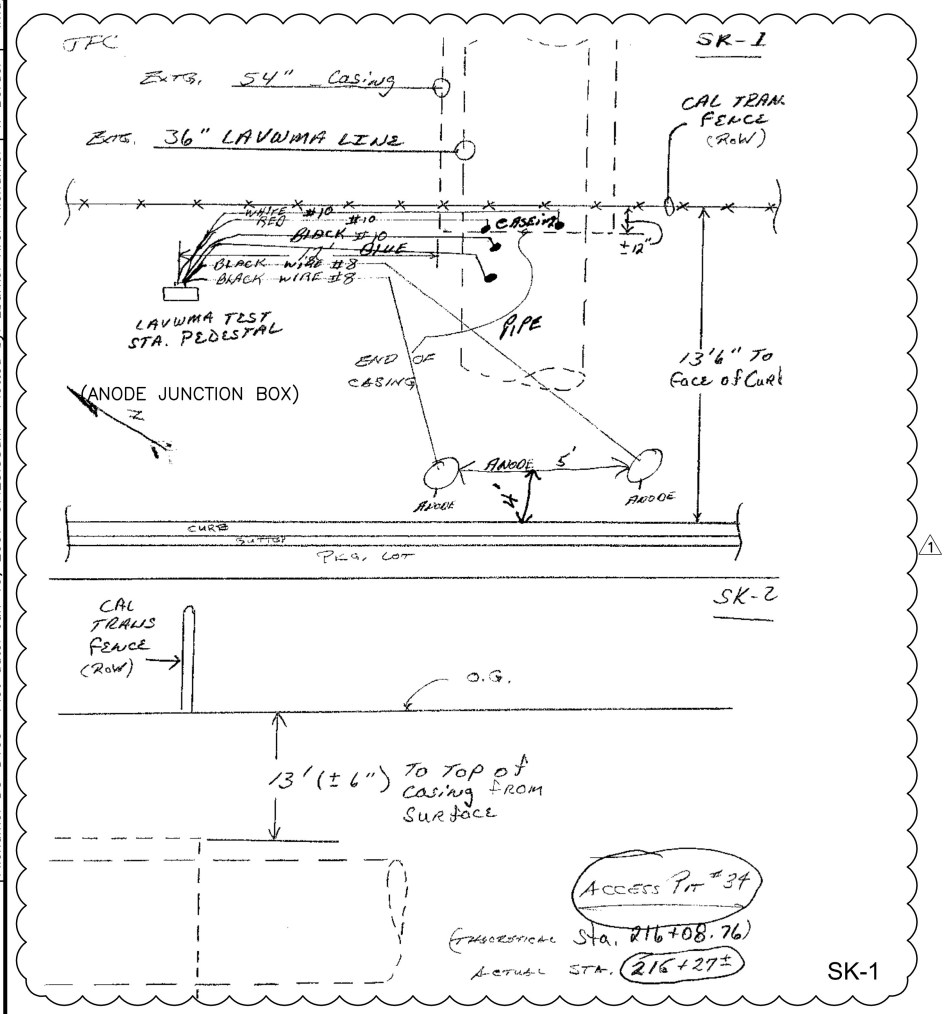
NOTE:
1. LOCATIONS OF ANODES ARE APPROXIMATE.

CPS – STATION 216+08± – EXISTING INSTALLATION

DETAIL C/D9

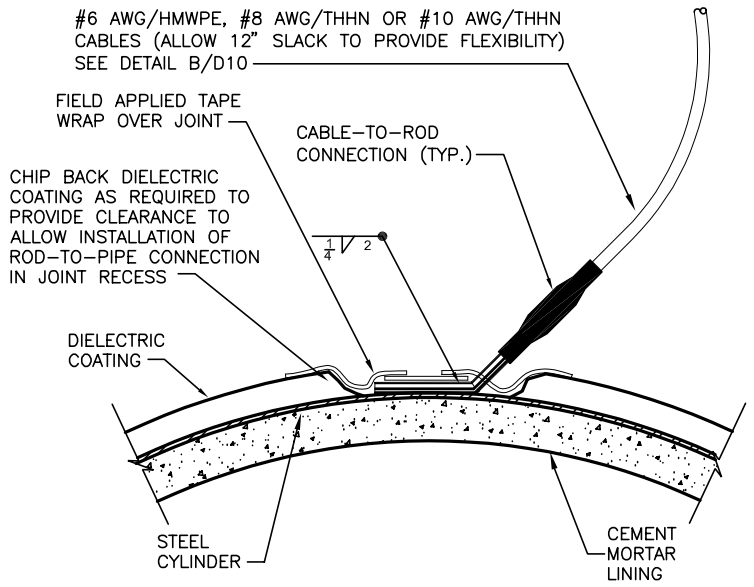
NO SCALE

RESTORED PER SK-1 (THIS DRAWING) 1



1

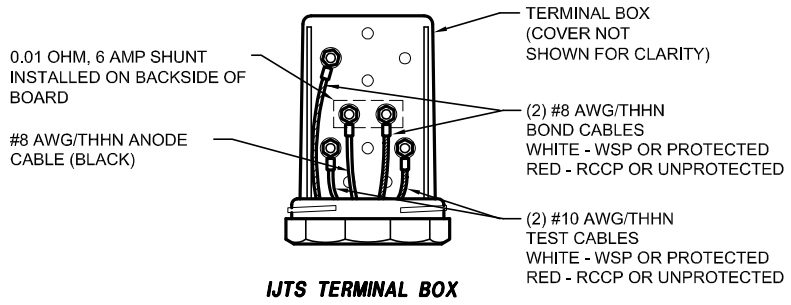
| | | |



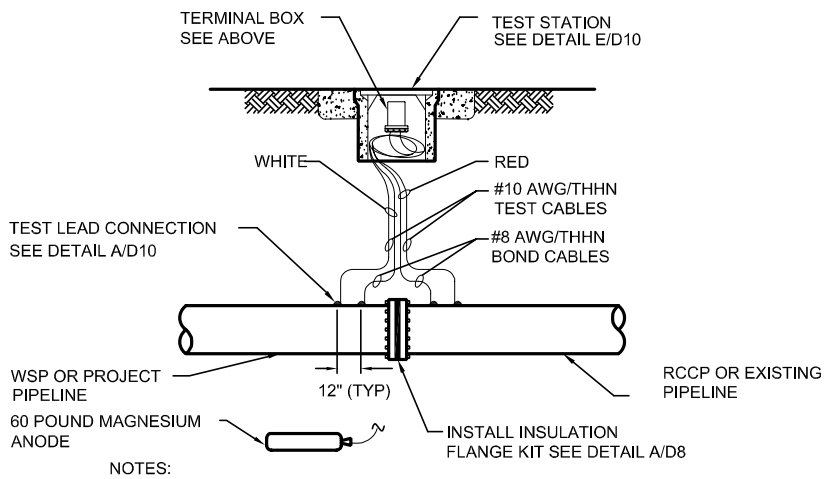
TEST LEAD AND STRUCTURE CONNECTION

DETAIL A/D10

NO SCALE



IJTS TERMINAL BOX

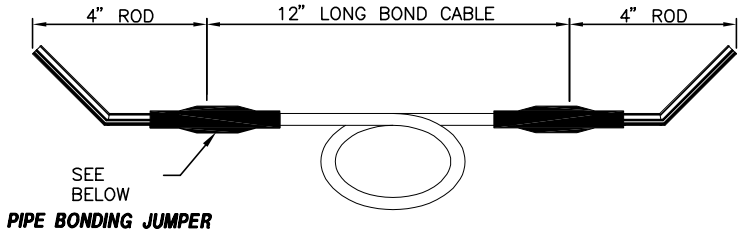


NOTES:
1. IDENTIFY CABLES PER DETAIL F/D10

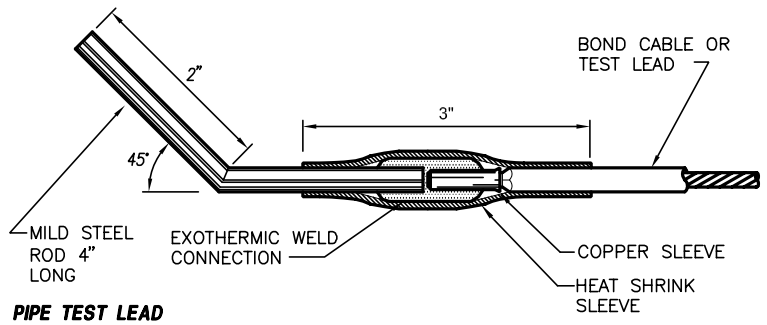
IJTS – INSULATING JOINT TEST STATION

DETAIL D/D10

NO SCALE



PIPE BONDING JUMPER



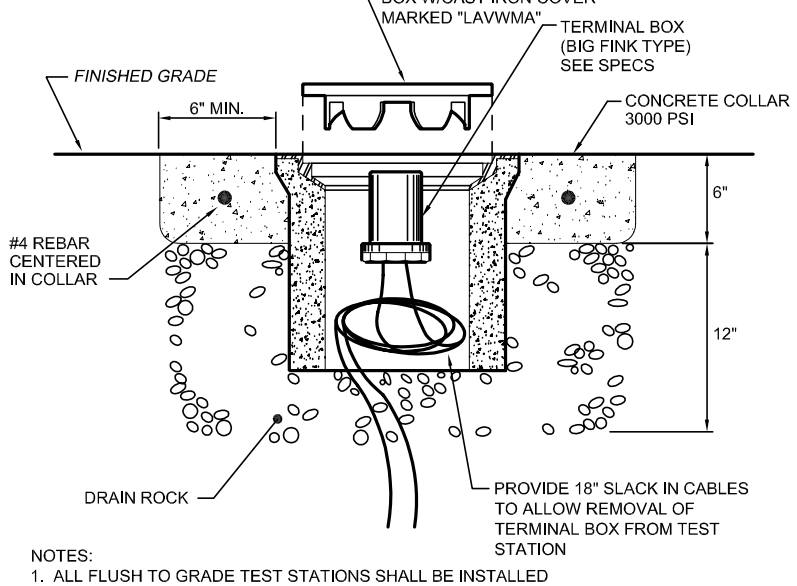
PIPE TEST LEAD

NOTES:
1. STEEL ROD FOR #8 AND #10 TEST LEADS SHALL BE 1/4" DIAMETER AND STEEL RODS FOR #2/0 BONDING JUMPERS AND #6 STRUCTURE CONNECTIONS SHALL BE 3/8" DIAMETER.
2. ONE ROD-TO-CABLE CONNECTION IS REQUIRED AT END OF TEST LEADS OR STRUCTURE CONNECTIONS AND TWO ROD-TO-CABLE CONNECTIONS PER BOND JUMPER.
3. BOND CABLES SHALL BE #2/0 AWG/HMWPE STRANDED COPPER CABLE.

CABLE-TO-ROD CONNECTION

DETAIL B/D10

NO SCALE

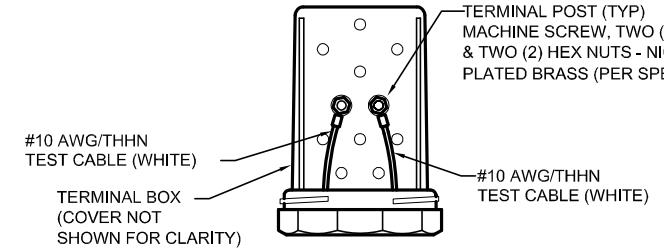


NOTES:
1. ALL FLUSH TO GRADE TEST STATIONS SHALL BE INSTALLED BEHIND THE CURB AND OUT OF THE ROADWAY.

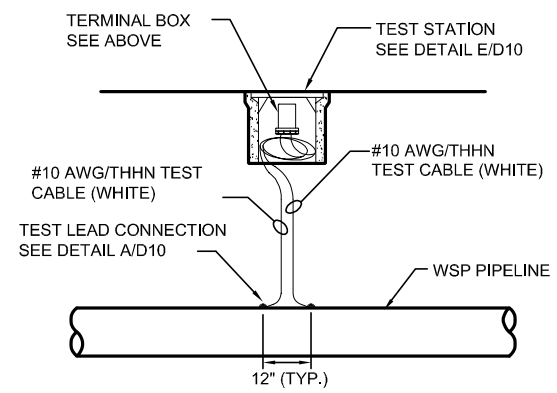
FLUSH MOUNTED TEST STATION CONCRETE BOX

DETAIL E/D10

NO SCALE



CTS TERMINAL BOX

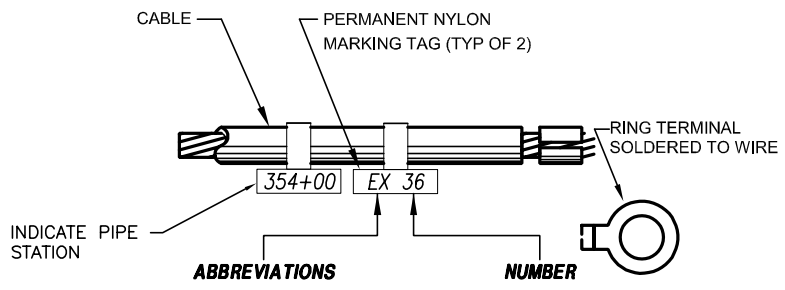


NOTE: IDENTIFY CABLES PER DETAIL F/D10.

CTS – CORROSION TEST STATION

DETAIL C/D10

NO SCALE



EX. - EXISTING EXPORT PIPELINE
DR - DRAIN
AN - ANODE
RE - REFERENCE ELECTRODE
FP - FOREIGN PIPELINE
CA - CASING

CABLE IDENTIFICATION

DETAIL F/D10

NO SCALE

BROWN AND CALDWELL	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)	**RECORD DRAWING**	REVISIONS
SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01	FILE 22471	THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.	ZONE / REV. / DESCRIPTION / BY / DATE / APP.: VAR / 1 / RECORD DRAWING / TU / 5/06 / CWJ
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02	DRAWN P. CHIN		
APPROVED: — DATE:	DESIGNED J. GLYNN		
	CHECKED C. JOYCE		
	CHECKED		

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

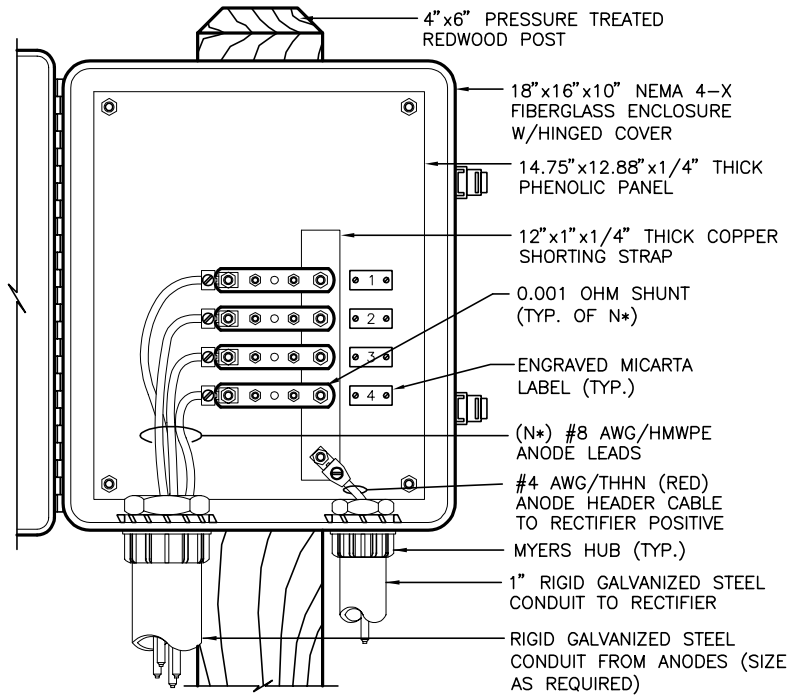
EXPORT PIPELINE FACILITIES
PIPELINE REHABILITATION REPAIR PROGRAM
PROJECT 2003-01

CIVIL

CATHODIC PROTECTION DETAILS

SCALE: NO SCALE
DRAWING NUMBER: **D10**
SHEET NUMBER: 56

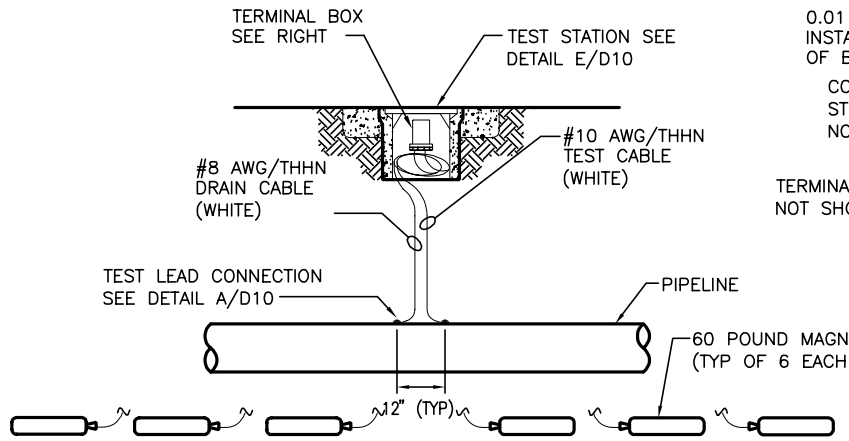
Filename: DC-D110 | Plot date: Jun 19, 2007-07:24:21am | Plotted by: zburke. Xref Filename: | X-BORDER | Image Filename: lavwma.jpg
DC-D108 1-03 PC 1=1



ANODE JUNCTION BOX

DETAIL A/D11

NO SCALE

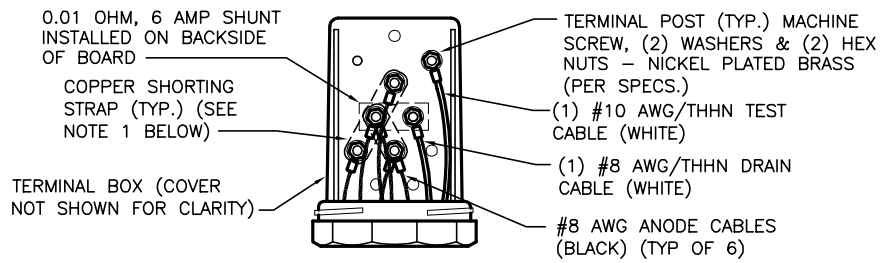


NOTES:
1. USE COPPER SHORTING STRAPS AS NECESSARY TO BOND ANODES TOGETHER.
2. IT MAY BE NECESSARY TO CONNECT MULTIPLE ANODES ON A SINGLE TERMINAL POST.
3. IDENTIFY CABLES PER DETAIL F/D10.

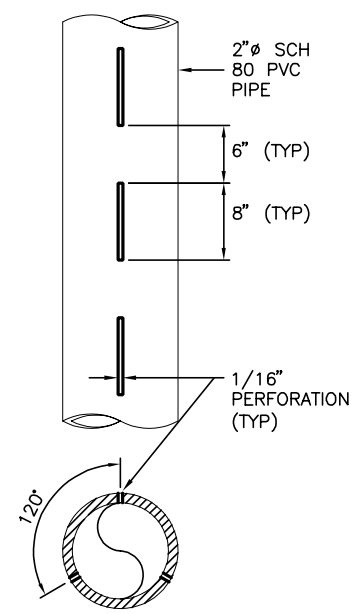
ATS – ANODE TEST STATION

DETAIL B/D11

NO SCALE



ATS TERMINAL BOX

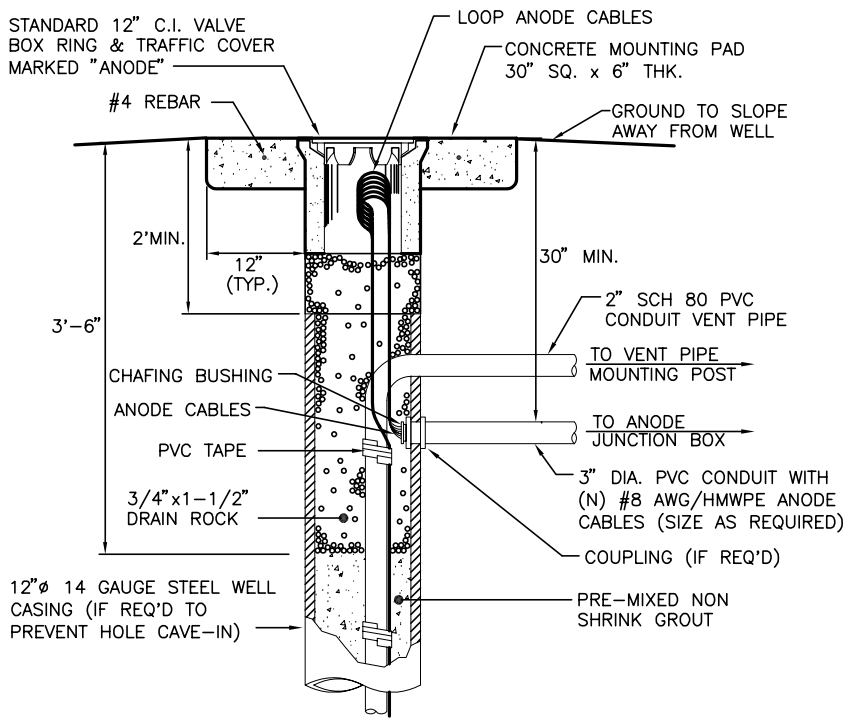


NOTES:
1. PERFORATE BOTTOM (L)–FT. OF VENT PIPE.
2. GLUE PVC JOINTS AND SECURE W/(3) 3/4"–10 SELF–TAPPING SHEET METAL SCREWS.

VENT PERFORATION

DETAIL F/D11

NO SCALE

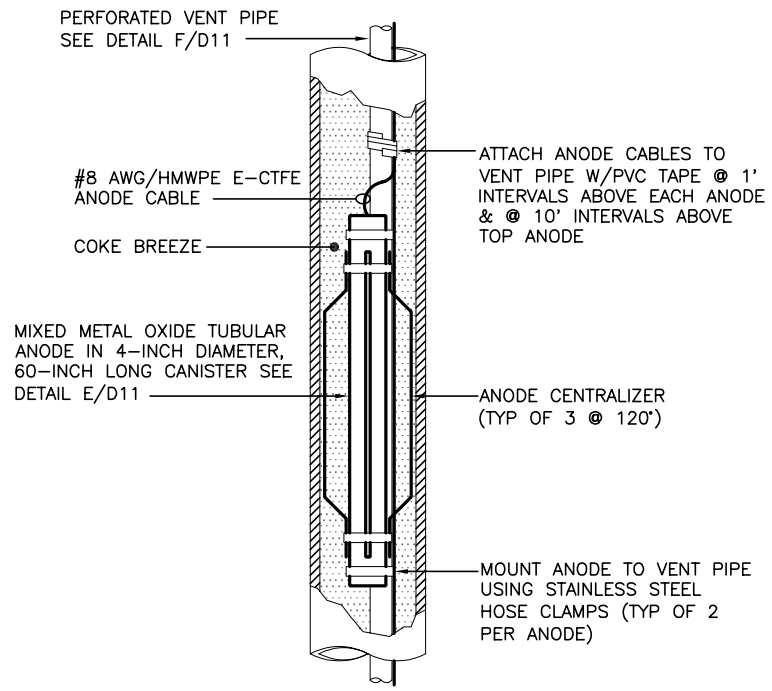


NOTE: CONCRETE MOUNTING PAD SHALL BE FLUSH TO GRADE IN PAVED LOCATIONS.

CONCRETE BOX INSTALLATION

DETAIL C/D11

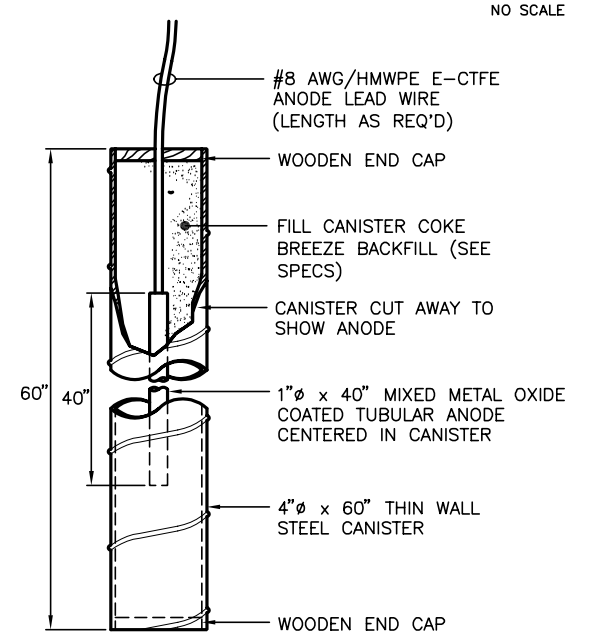
NO SCALE



ANODE INSTALLATION

DETAIL D/D11

NO SCALE



NOTES:
1. SECURE WOODEN END CAP WITH THREE SCREWS MINIMUM.
2. WRAP END CAPS WITH THREE LAYERS OF RUBBER TAPE TO COVER ALL SHARP EDGES.

ANODE DETAIL – MIXED METAL OXIDE TUBULAR

DETAIL E/D11

NO SCALE

BROWN AND CALDWELL	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)	**RECORD DRAWING**
SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER, BROWN AND CALDWELL — DATE: 05/NOV/01	FILE 22471	THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.
APPROVED: GRACE C. CHOW — DATE: 05/NOV/02	DRAWN P. CHIN
APPROVED: — DATE:	DESIGNED J. GLYNN
	CHECKED C. JOYCE
	CHECKED

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES
PIPELINE REHABILITATION REPAIR PROGRAM
PROJECT 2003-01

CIVIL

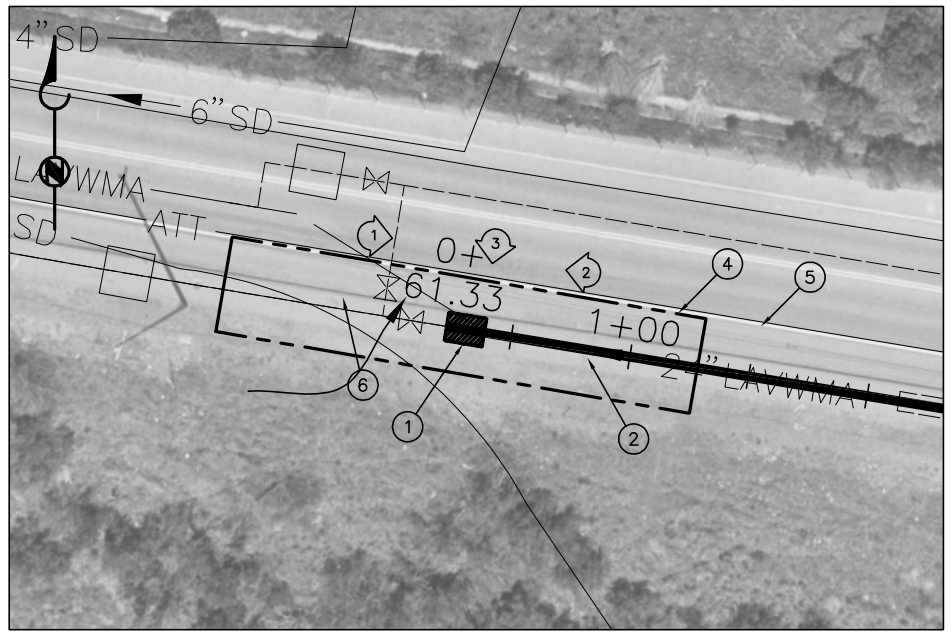
CATHODIC PROTECTION DETAILS

SCALE: NO SCALE

DRAWING NUMBER: **D11**

SHEET NUMBER: 57

Filename: DC-D111 | Plot date: Jun 19, 2007-07:25:07am | Plotted by: zburke. Xref Filename: | X-BORDER | Image Filename: | lavwma.jpg



ACCESS PIT #1 STA 0+65 – PLAN
SCALE: 1" = 20'

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #1. SEE DWG C401.

(2) EXISTING 24" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE REMOVAL WITH OWNER.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED, IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P .CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #1 STA 0+65

SCALE: AS SHOWN
DRAWING NUMBER: L1
SHEET NUMBER: 58

Filename: DC-L01 | Plot date: Jun 18, 2007–03:06:09pm | Plotted by: zburke | Xref Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: C47.tif | lavwma.jpg | 1=1 | PC | 1-03 | L1

Filename: DC-L02 | 1=1 | pc | 1-03 | L2 | X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: | C47.tif | DSC00056.JPG | DSC00057.JPG | DSC00058.JPG | lavwma.j
Plotted by: zburke. Xref Filename: | Plot date: Jun 18, 2007-03:05:55pm

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #2 STA 6+00. SEE DWG C401.

(2) EXISTING 24" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

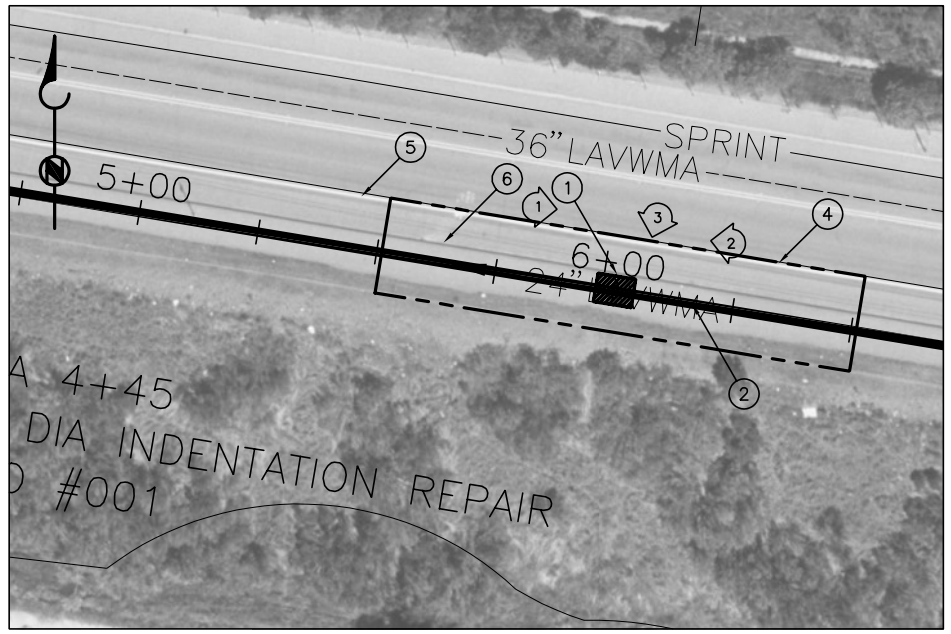
(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

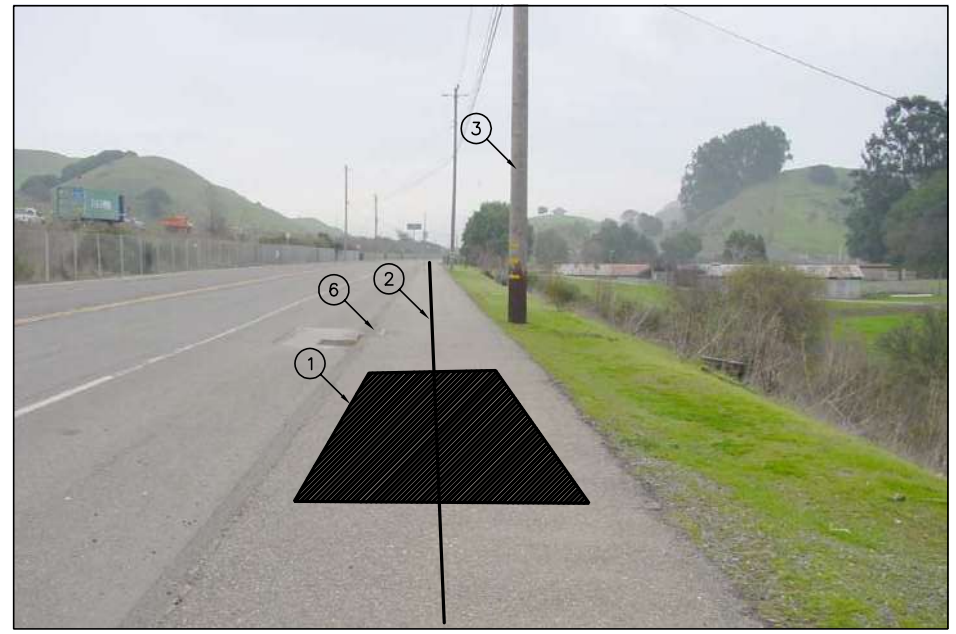
(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

GENERAL NOTES:

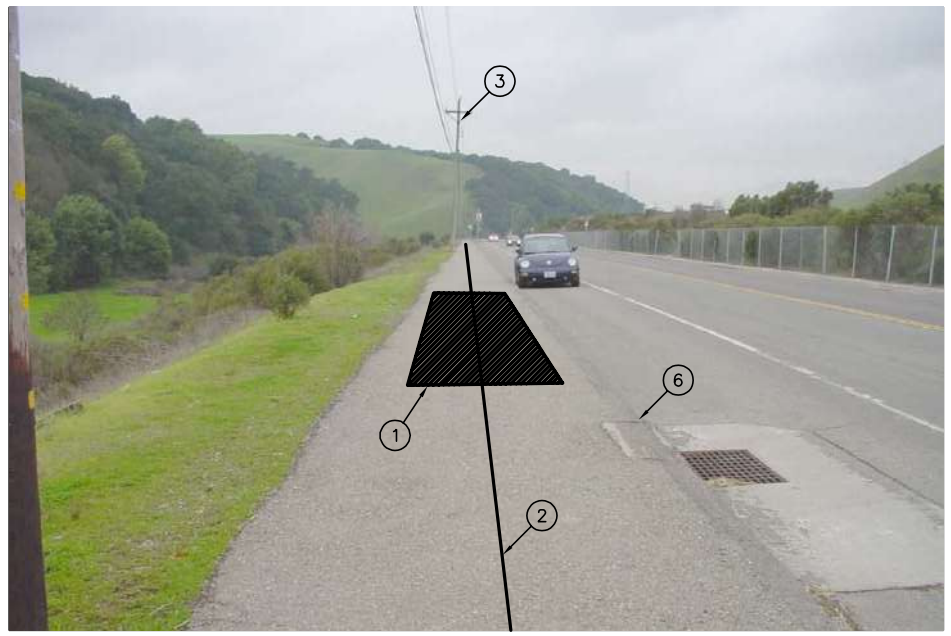
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



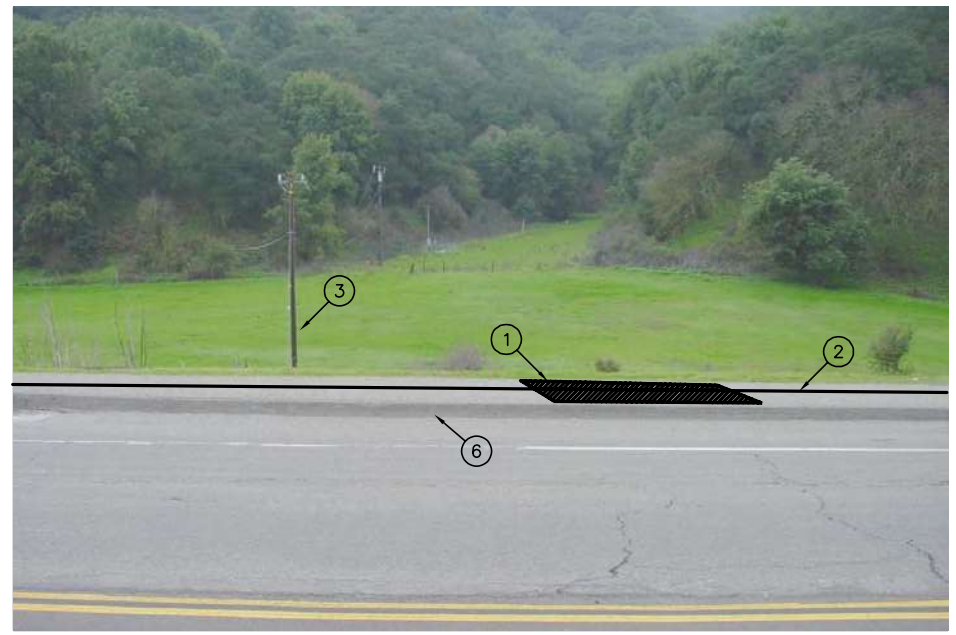
ACCESS PIT #2 STA 6+00 – PLAN
SCALE: 1" = 20'



ACCESS PIT #2 STA 6+00 – PHOTO 1
NOT TO SCALE



ACCESS PIT #2 STA 6+00 – PHOTO 2
NOT TO SCALE



ACCESS PIT #2 STA 6+00 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #2 STA 6+00

SCALE: AS SHOWN
DRAWING NUMBER: L2
SHEET NUMBER: 59

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

ACCESS PIT #3 & 1

(1) CONSTRUCT NEW MANWAY STA 12+40. SEE DWG C402.

(2) EXISTING 24" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

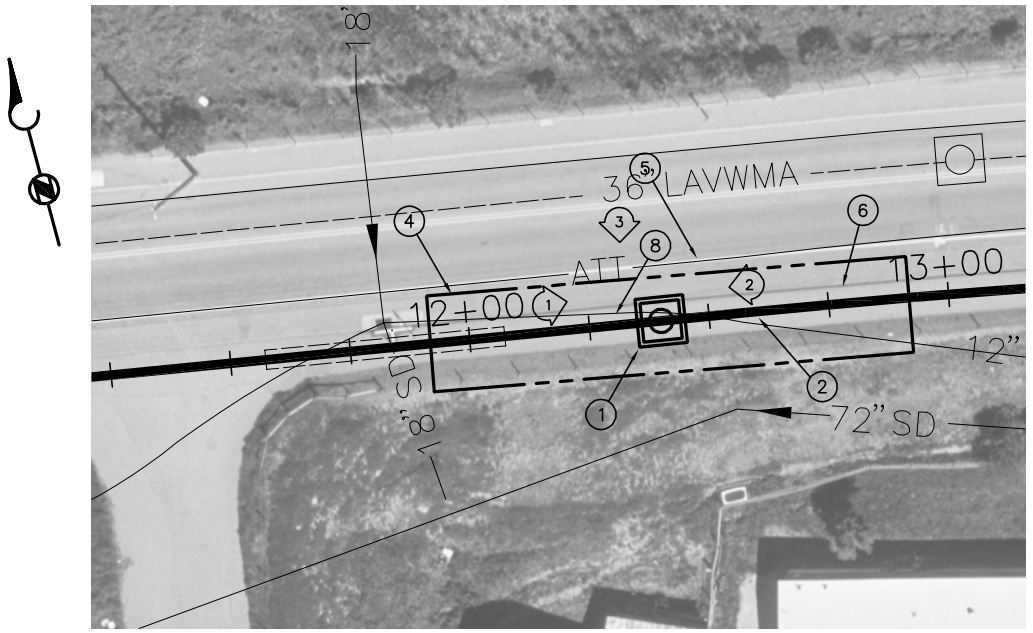
(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE REMOVAL WITH OWNER.

(8) EXISTING 18" SD. PROTECT IN PLACE.

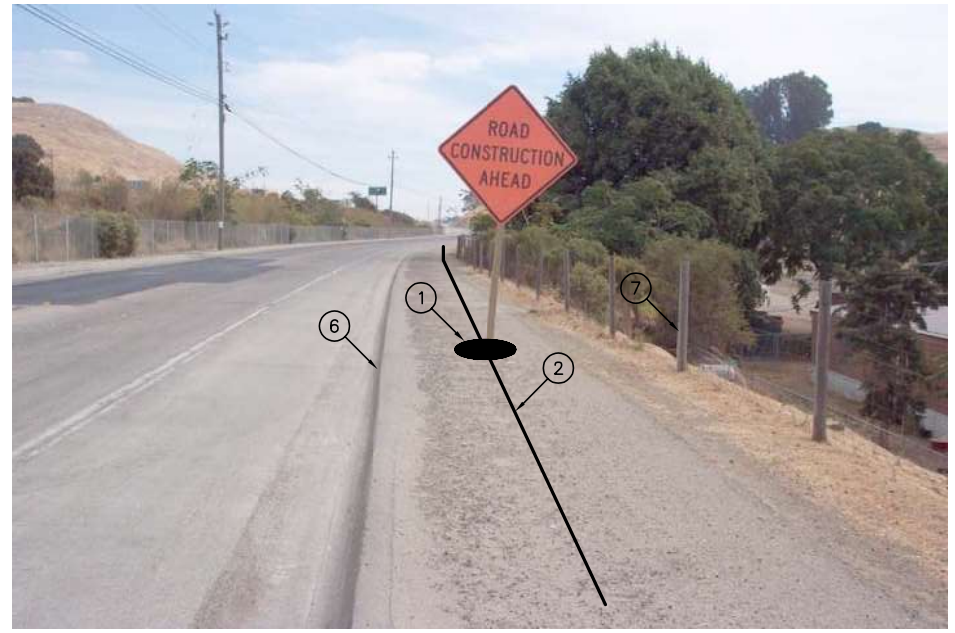
(9) EXISTING 12" SD. POTHOLE PRIOR TO EXCAVATION. PROTECT IN PLACE OR RELOCATE UNDER THE DIRECTION OF CONSTRUCTION MANAGER IF NECESSARY.

GENERAL NOTES:

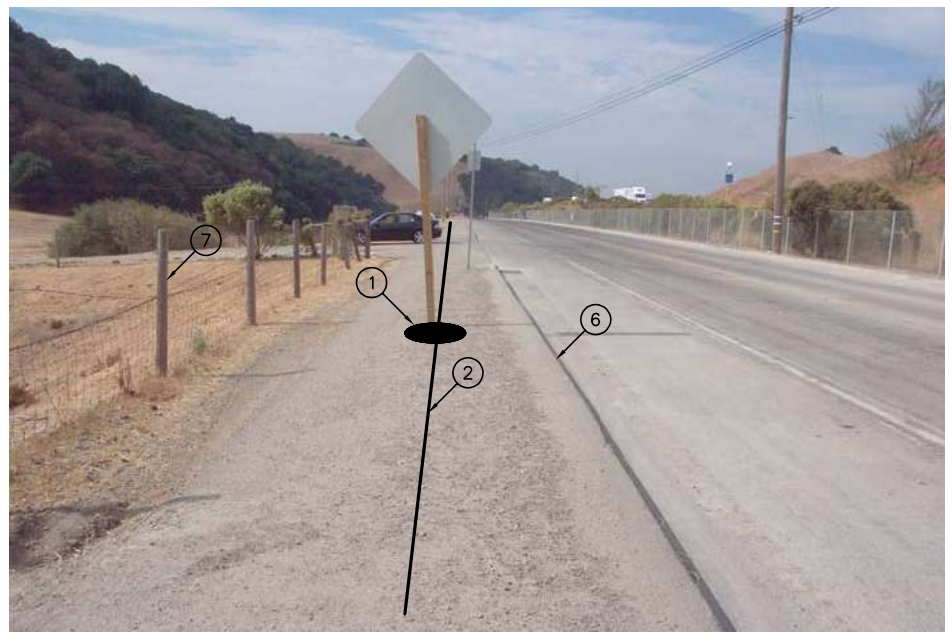
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #3 & 1 MANWAY STA 12+40 – PLAN
SCALE: 1" = 20'



ACCESS PIT #3 & 1 MANWAY STA 12+40 – PHOTO 1
NOT TO SCALE



ACCESS PIT #3 & 1 MANWAY STA 12+40 – PHOTO 2
NOT TO SCALE



ACCESS PIT #3 & 1 MANWAY STA 12+40 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

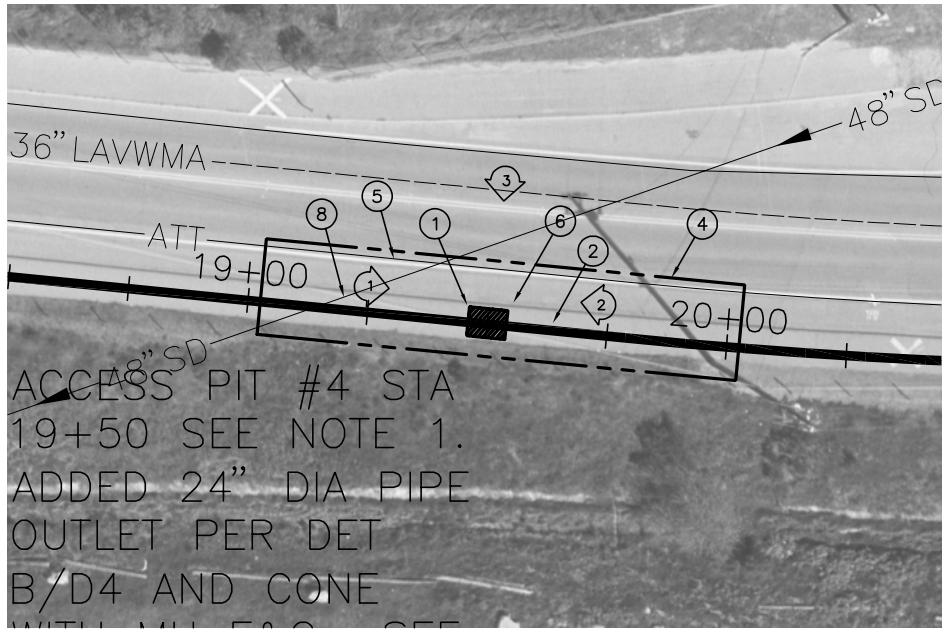
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #3 STA 12+40

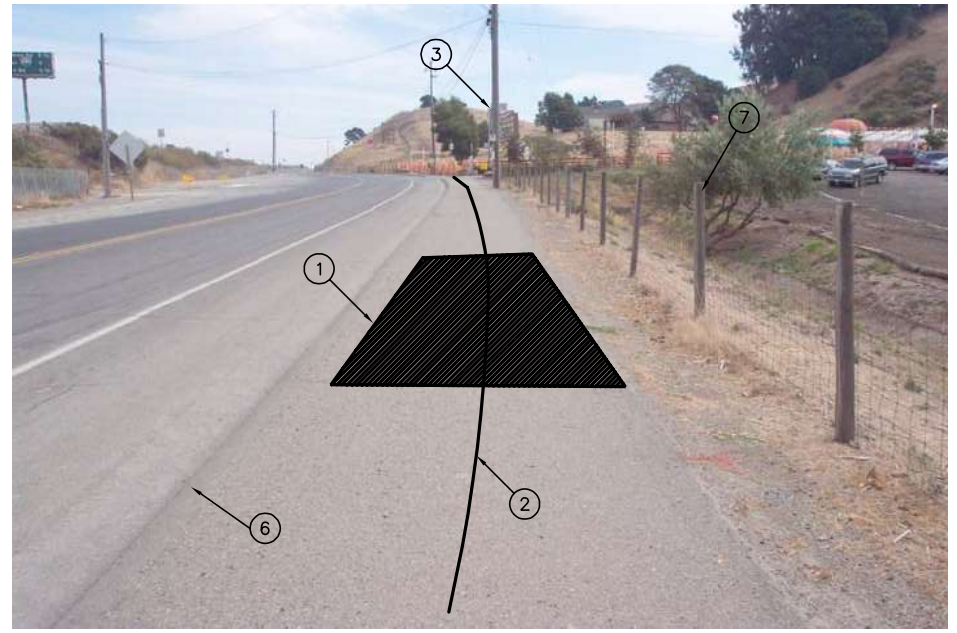
SCALE: AS SHOWN
DRAWING NUMBER: L3
SHEET NUMBER: 60

Filename: DC-L03 | Plot date: Jun 18, 2007-03:05:07pm | Plotted by: zburke | Xref Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 201.tif | 202.tif | 203.tif | C48.tif | lavwma.jpg

Filename: DC-L04 | Plot date: Jun 18, 2007-03:04:19pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: | 198.tif | 199.tif | 200.tif | C48.tif | lavwma.jpg



ACCESS PIT #4 STA 19+50 – PLAN
SCALE: 1" = 20'



ACCESS PIT #4 STA 19+50 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #4 STA 19+50. SEE DWG C402.

(2) EXISTING 24" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

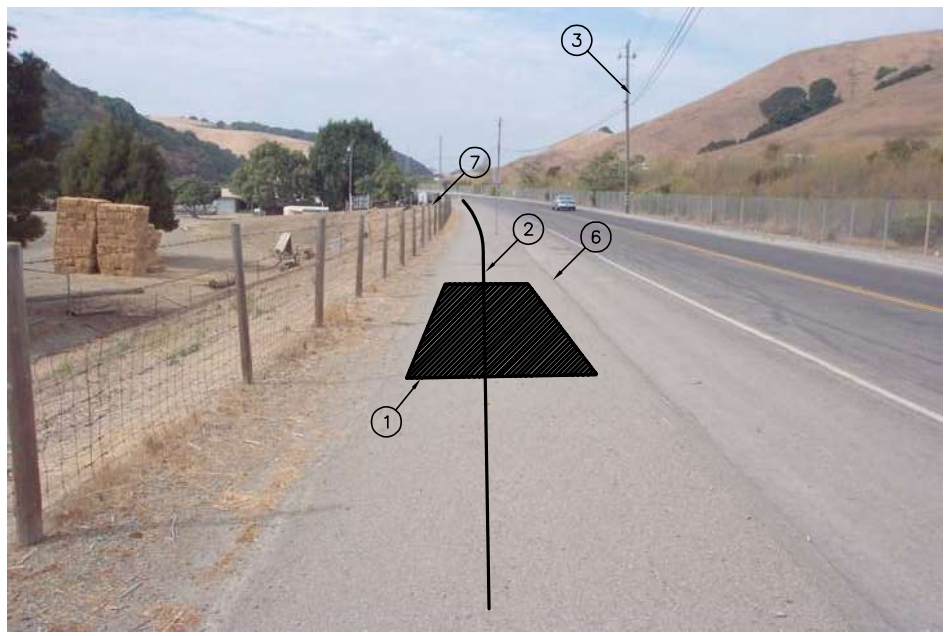
(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE REMOVAL WITH OWNER.

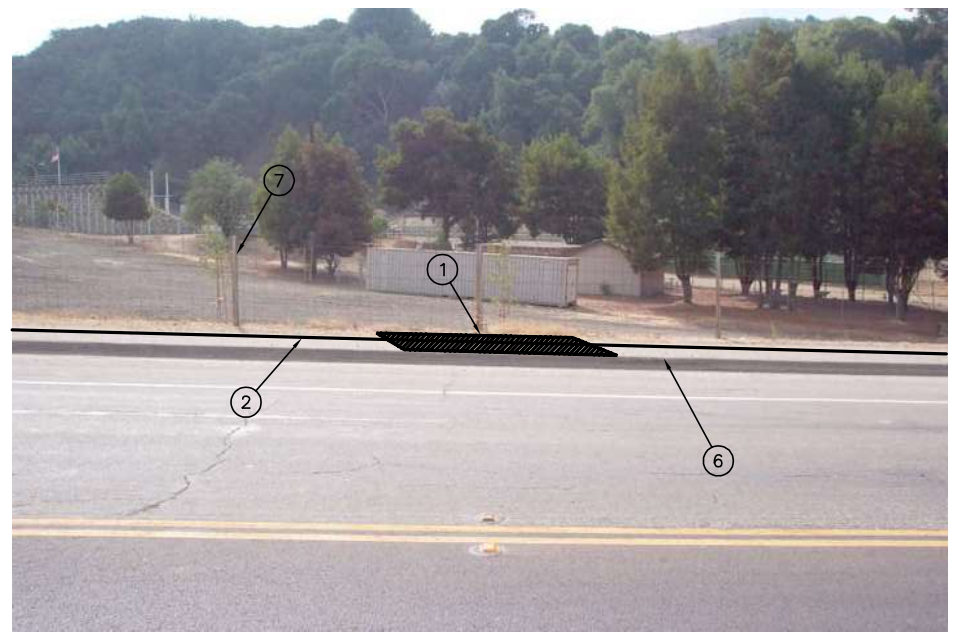
(8) EXISTING 48" SD. PROTECT IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #4 STA 19+50 – PHOTO 2
NOT TO SCALE



ACCESS PIT #4 STA 19+50 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #4 STA 19+50

SCALE: AS SHOWN
DRAWING NUMBER: L4
SHEET NUMBER: 61

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

ACCESS PIT #5 APPROX. STA 25+99.31 (1)

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY AND ECCENTRIC REDUCER, SEE DWG C403 AND SITE DET B/C422.

(2) EXISTING 30" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

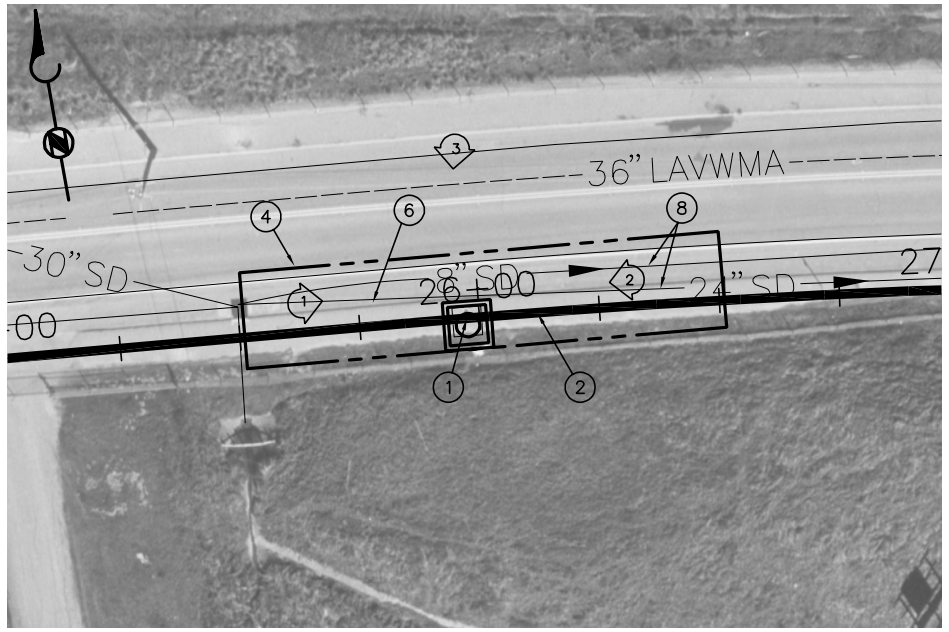
(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

(7) REMOVE AND REPLACE EXISTING FENCE AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE REMOVAL WITH OWNER.

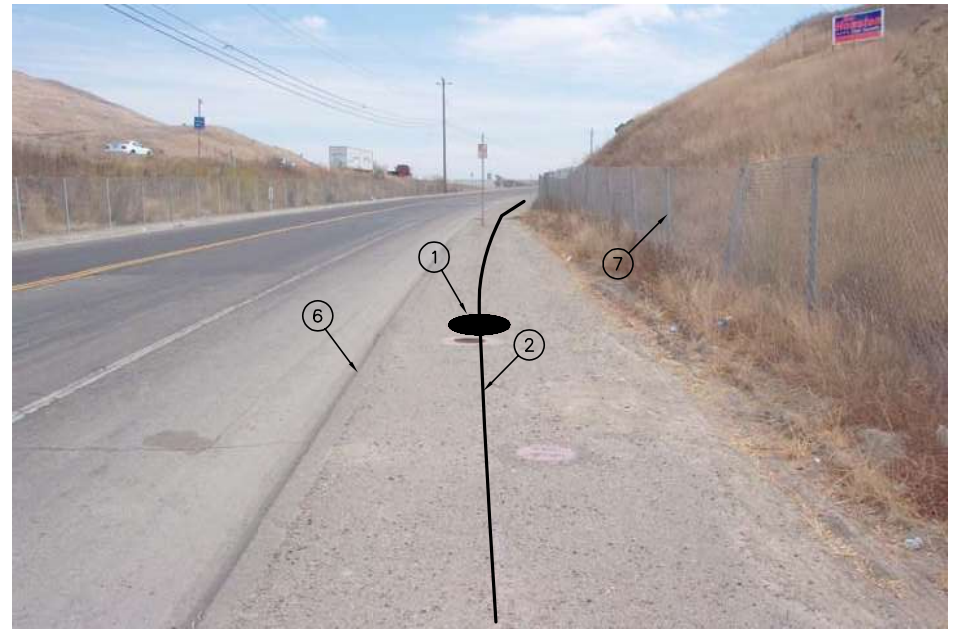
(8) EXISTING 24" AND 8" SD. POTHOLE BEFORE EXCAVATION. CONSTRUCT MANWAY SHIFTED AS SOUTHERLY AS POSSIBLE TO AVOID 24" SD. RELOCATE 24" TO THE NORTH UNDER THE DIRECTION OF CONSTRUCTION MANAGER IF NECESSARY.

GENERAL NOTES:

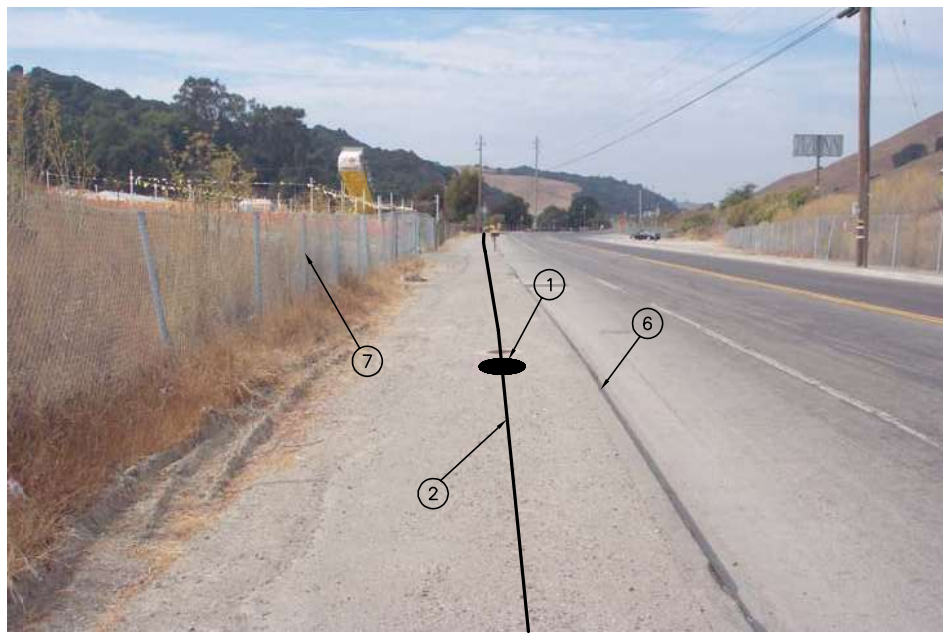
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



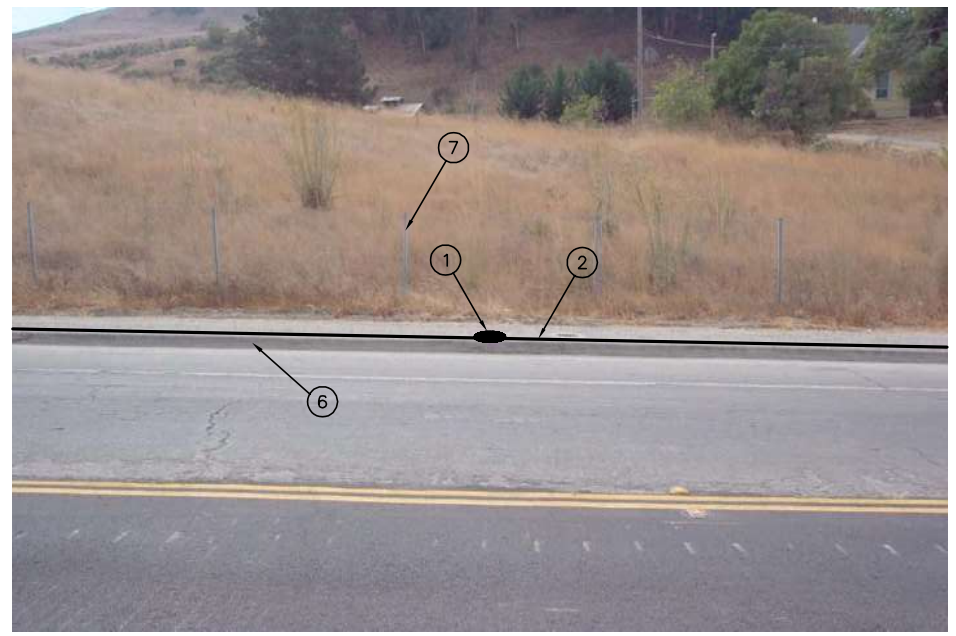
ACCESS PIT #5 & (1) MANWAY STA 25+99.31 – PLAN
SCALE: 1" = 20'



ACCESS PIT #5 & (1) MANWAY STA 25+99.31 – PHOTO 1
NOT TO SCALE



ACCESS PIT #5 & (1) MANWAY STA 25+99.31 – PHOTO 2
NOT TO SCALE



ACCESS PIT #5 & (1) MANWAY STA 25+99.31 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

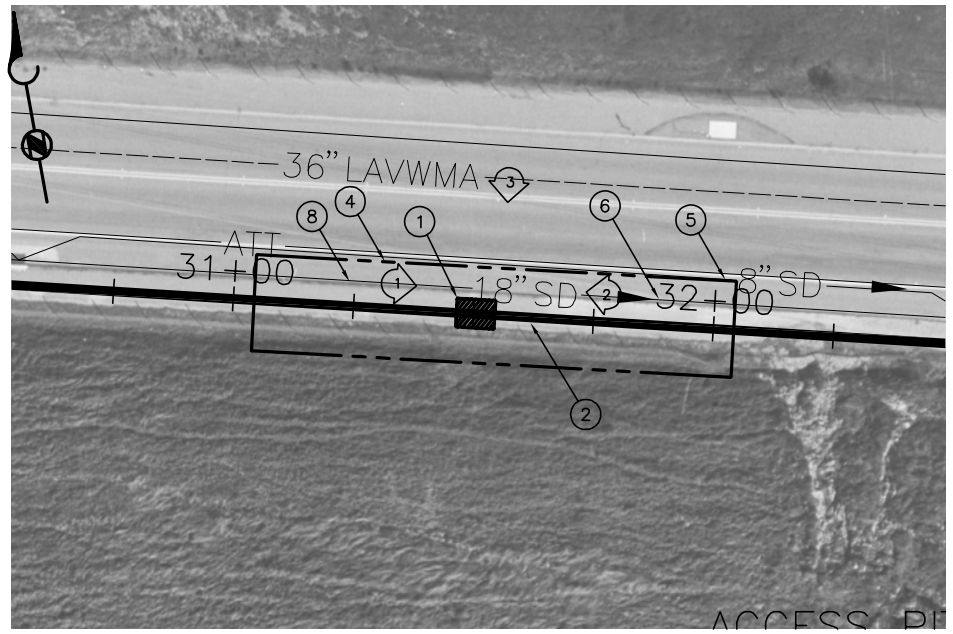
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #5 STA 25+99.31

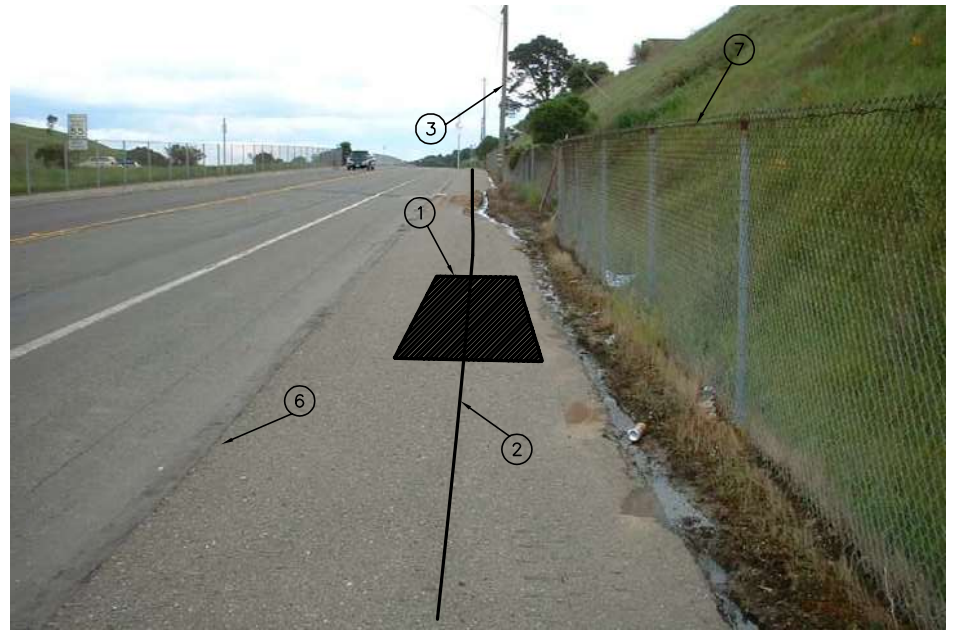
SCALE: AS SHOWN
DRAWING NUMBER: L5
SHEET NUMBER: 62

Filename: DC-L05 | Plot date: Jun 18, 2007-03:03:31pm | Plotted by: zburke | Xref Filename: | Image Filename: | 195.tif | 196.tif | 197.tif | C49.tif | lavwma.jpg

Pit6_photo3.JPG | Pit6_photo2.JPG | Pit6_photo1.JPG | C49.tif | 193.tif | Image Filename: | x-proper | x-exutil | X-SITE4 | X-BORDER | Xref Filename: | Plotted by: zburke | Plot date: Jun 18, 2007-03:02:53pm | DC-L06 | 1=1 | PC | 1-03



ACCESS PIT #6 (1) STA 31+50 – PLAN
SCALE: 1" = 20'



ACCESS PIT #6 (1) STA 31+50 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

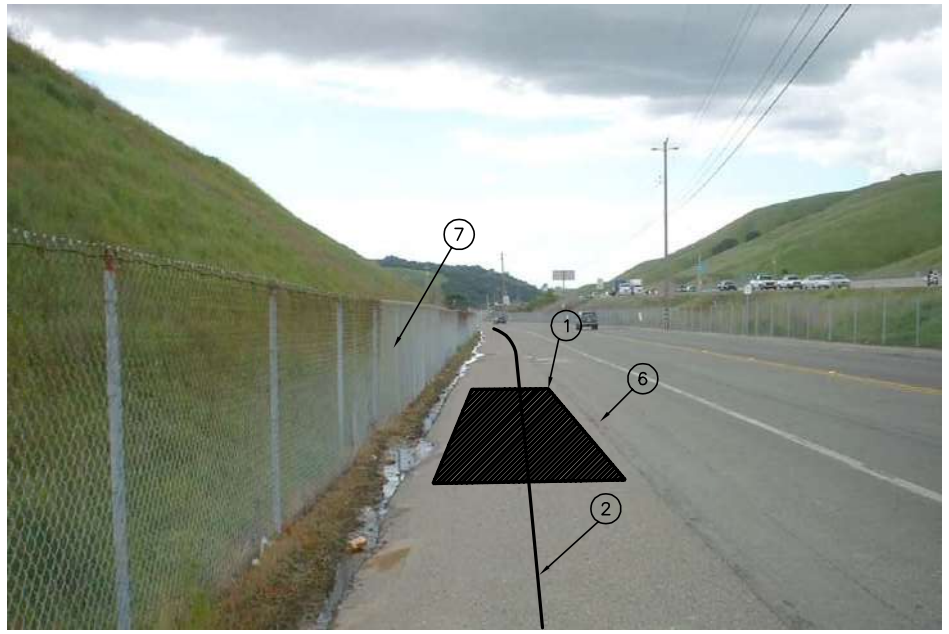
<3> "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

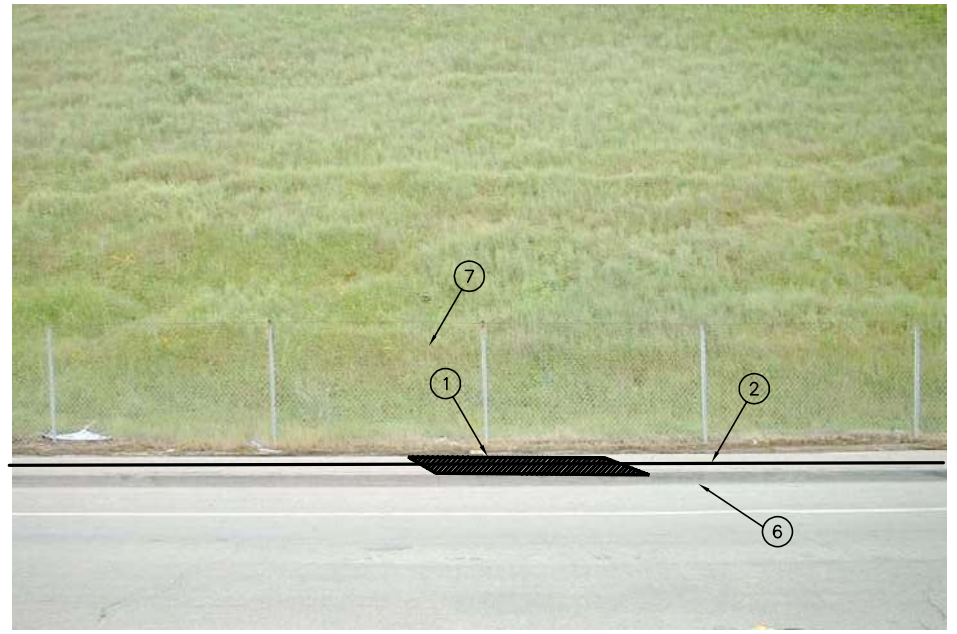
(1) ACCESS PIT #6 STA 31+50. SEE DWG C403.
(2) EXISTING 30" LAVWMA PIPELINE.
(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.
(4) LIMITS OF WORK AREA.
(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.
(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.
(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED. COORDINATE FENCE REMOVAL WITH OWNER.
(8) EXISTING 18" SD. POTHOLE BEFORE EXCAVATION OF ACCESS PIT. PROTECT IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #6 (1) STA 31+50 – PHOTO 2
NOT TO SCALE



ACCESS PIT #6 (1) STA 31+50 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW DATE: 05/NOV/02

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

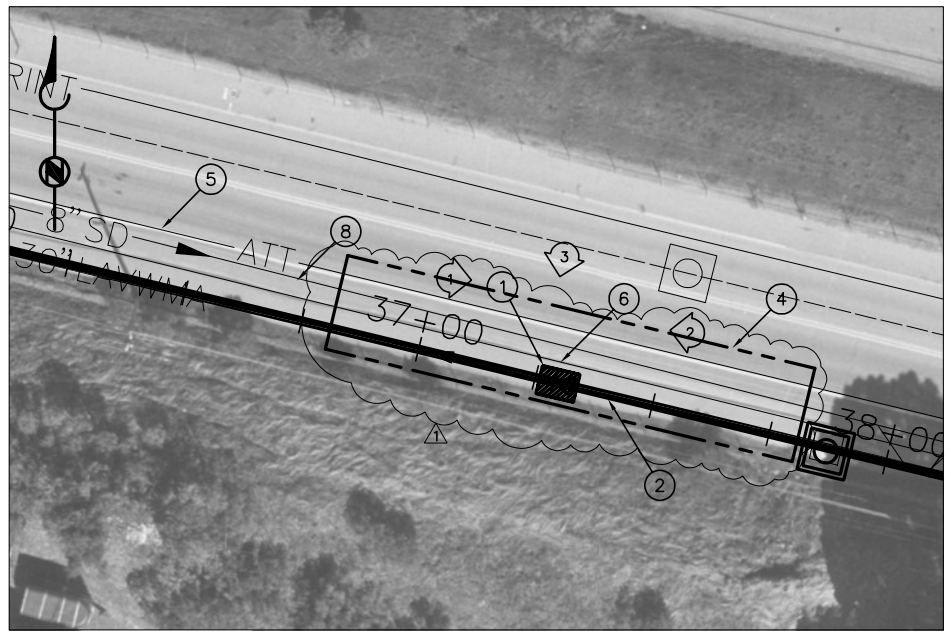
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT

CIVIL

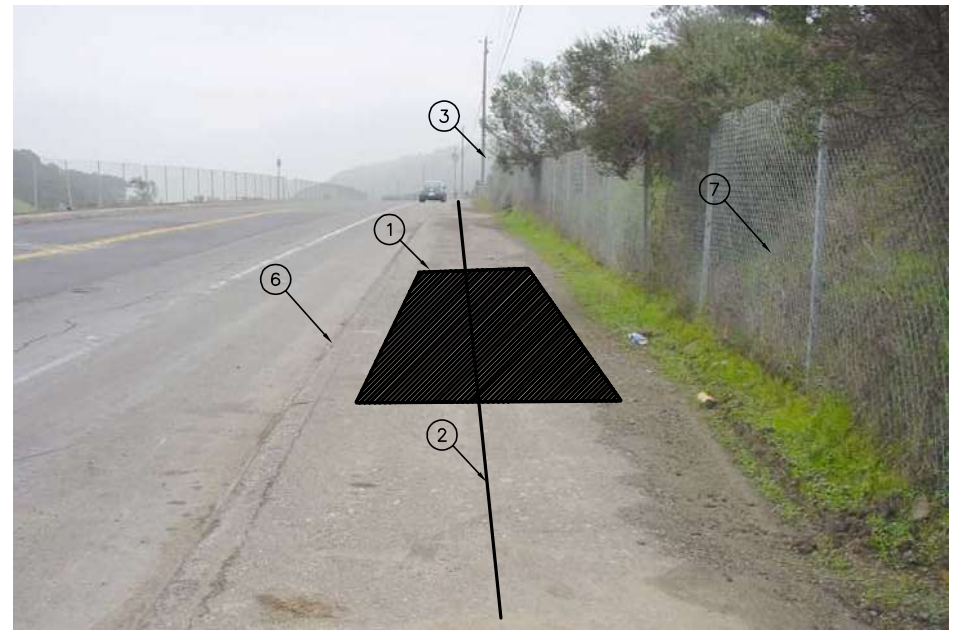
CONSTRUCTION LAYOUT

SCALE AS SHOWN
DRAWING NUMBER L6
SHEET NUMBER

lavwma.j | DSC00055.JPG | DSC00054.JPG | DSC00053.JPG | C49.tif | Image Filename: | x-proper | x-exutil | X-SITE4 | X-BORDER | Xref Filename: | Plotted by: zburke | Plot date: Jun 18, 2007-03:02:19pm | Filename: DC-L07 | 1=1 | PC | 1-03 | L7



ACCESS PIT #7 STA 37+30 – PLAN
SCALE: 1" = 20'



ACCESS PIT #7 STA 37+30 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

<3> "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #7 STA 37+30. REMOVE AND REPLACE EXISTING ECCENTRIC REDUCER SEE DWG C403 AND SITE DETAIL C/C422.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

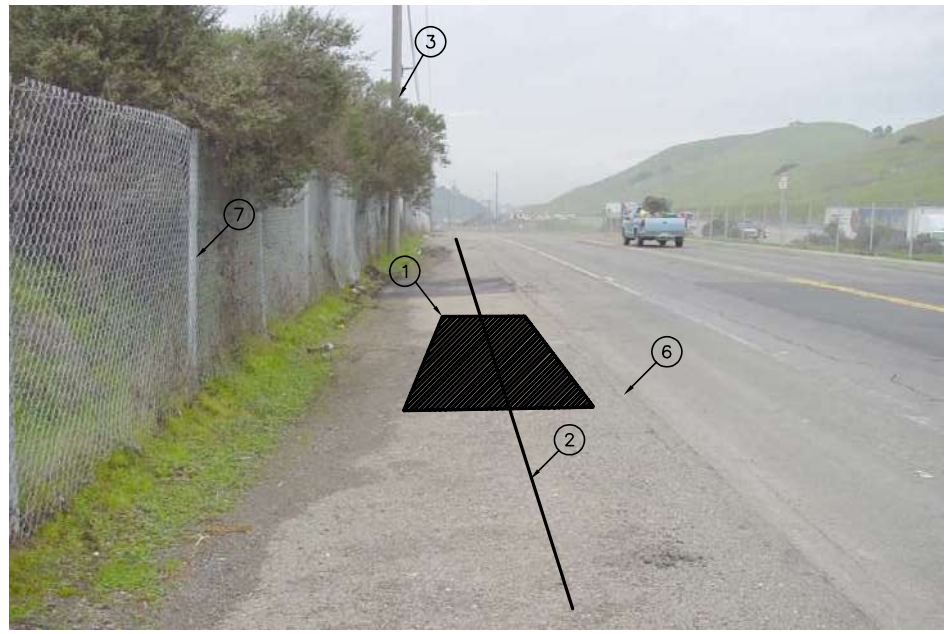
(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED. COORDINATE FENCE REMOVAL WITH OWNER.

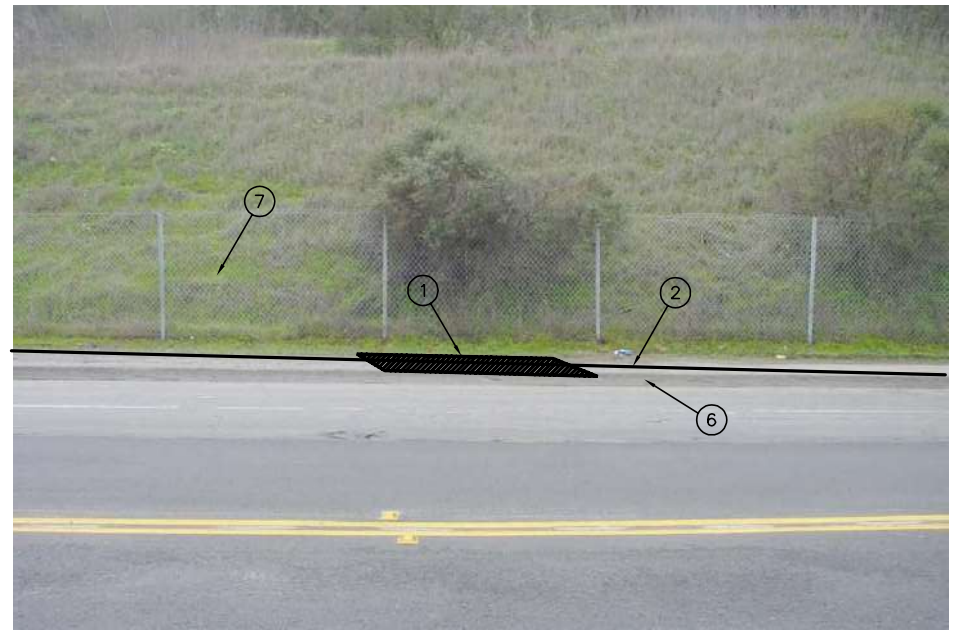
(8) EXISTING 18" SD. PROTECT IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #7 STA 37+30 – PHOTO 2
NOT TO SCALE



ACCESS PIT #7 STA 37+30 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	HK	1/04	CWJ
VAR	2	RECORD DRAWING	TU	5/06	CWJ

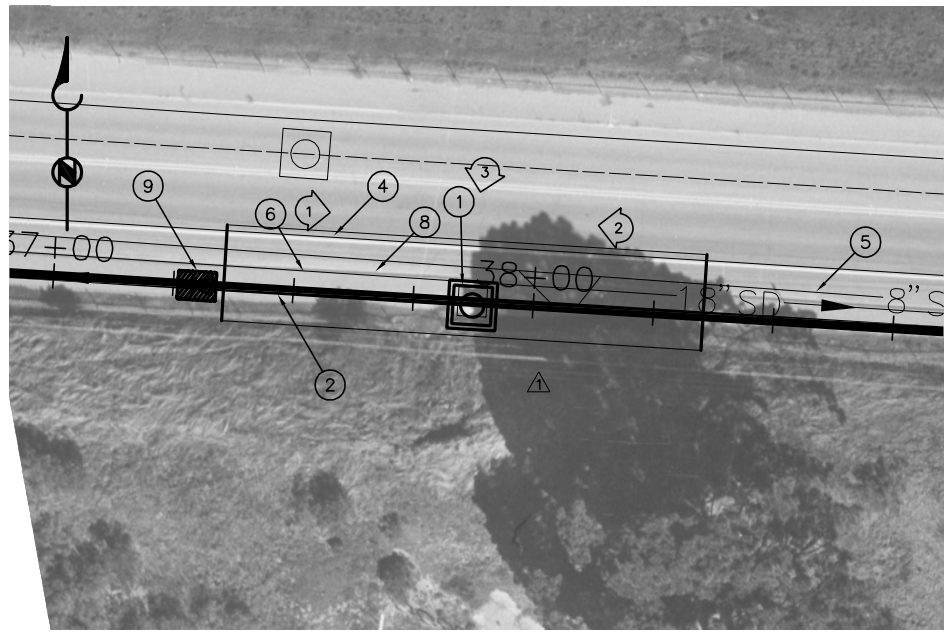
LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

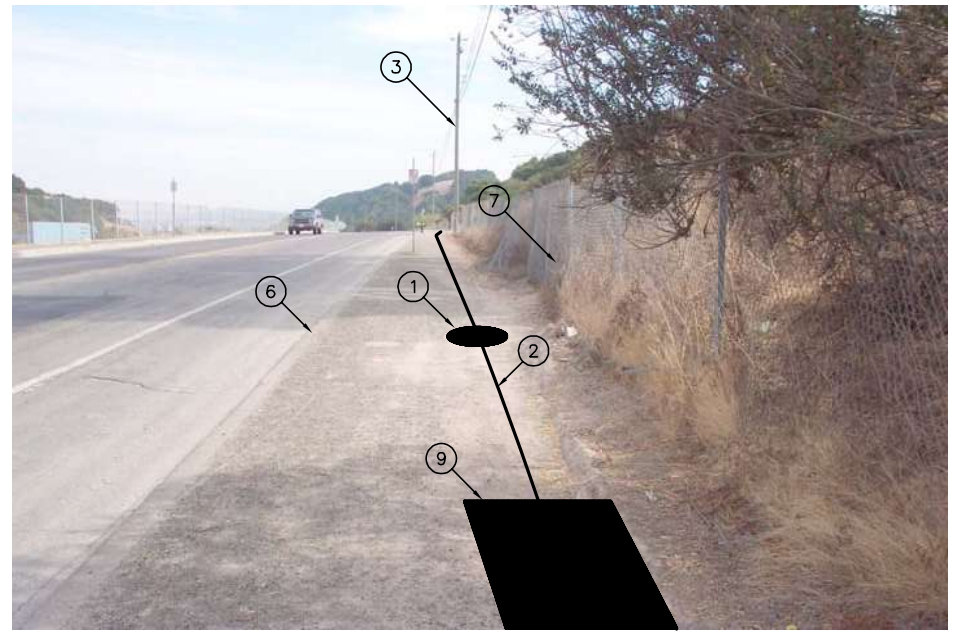
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #7 STA 37+35

SCALE: AS SHOWN
DRAWING NUMBER: L7
SHEET NUMBER: 64



ACCESS PIT #8 & MANWAY STA 37+89 – PLAN
SCALE: 1" = 20'



ACCESS PIT #8 & MANWAY STA 37+89 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY ACCESS PIT #8 STA 37+89. SEE DWG C404.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

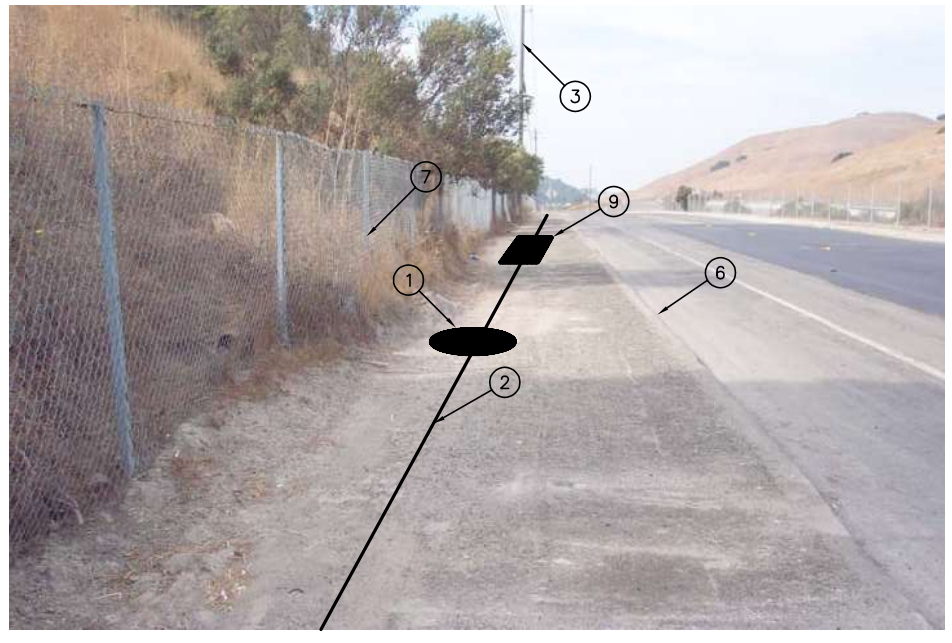
(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE REMOVAL WITH OWNER.

(8) EXISTING 18" SD. PROTECT IN PLACE. POTHOLE BEFORE EXCAVATION. CONSTRUCT MANWAY SHIFTED AS SOUTHERLY AS POSSIBLE TO AVOID 18" SD. RELOCATE 18" SD TO THE NORTH UNDER THE DIRECTION OF CONSTRUCTION MANAGER IF NECESSARY.

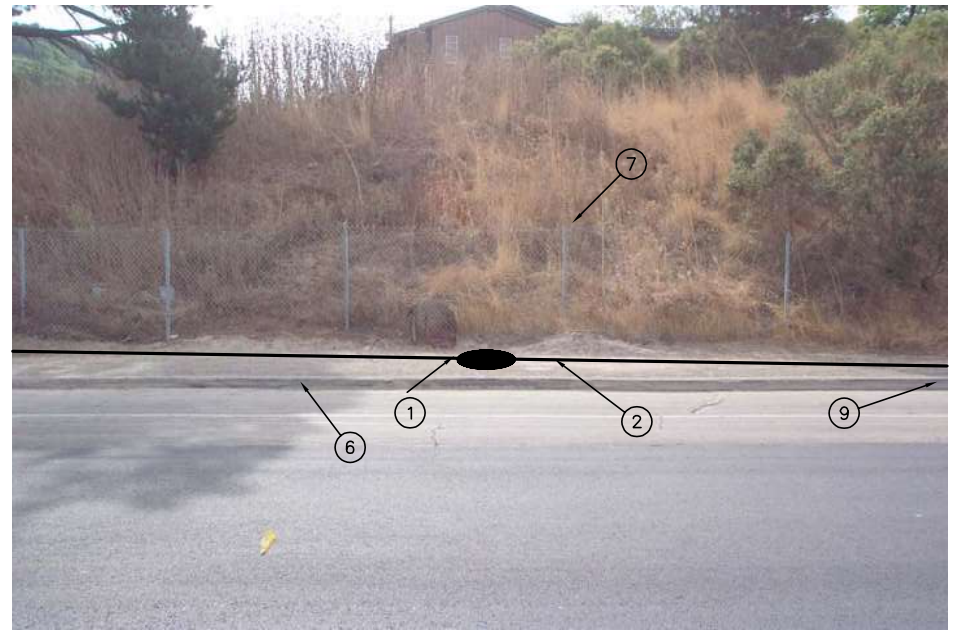
(9) ACCESS PIT #7.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #8 & MANWAY STA 37+89 – PHOTO 2
NOT TO SCALE



ACCESS PIT #8 & MANWAY STA 37+89 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	REVISED PER ADDENDUM 1	HK	1/04	CWJ
VAR	2	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT ACCESS PIT #8 STA 37+89

SCALE: AS SHOWN
DRAWING NUMBER: L8
SHEET NUMBER: 65

Plot date: Jun 18, 2007–03:01:41pm | Plotted by: zburke | Xref Filename: X–BORDER | X–SITE4 | x–exutil | x–proper | Image Filename: 189.tif | 190.tif | 191.tif | C50.tif | lavwma.jpg | Filename: DC–L08 | 1=1 | PC | 1–03 | L8

lavwma.jpg | C50.tif | 188.tif | 187.tif | 186.tif | Image Filename: | x-proper | x-exutil | X-SITE4 | X-BORDER | Xref Filename: | zburke. Plotted by: Jun 18, 2007-03:00:41pm | Plot date: DC-L09 | Filename: 1=1 | PC | 1-03 | L9

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) CONSTRUCT NEW MANWAY STA 46+60. (1) SEE DWG C404.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

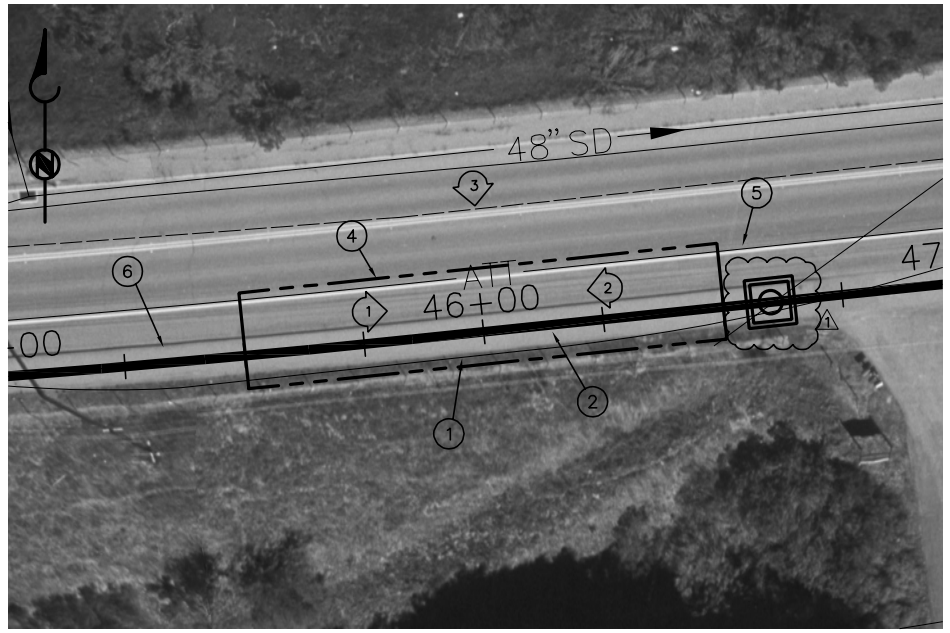
(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE REMOVAL WITH OWNER.

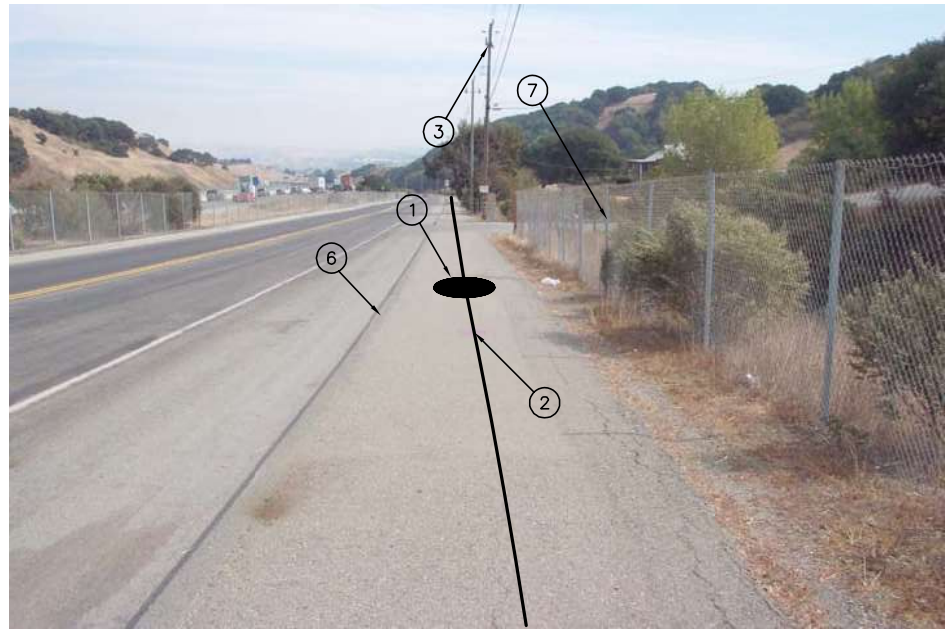
(8) EXISTING 18" SD. PROTECT IN PLACE.

GENERAL NOTES:

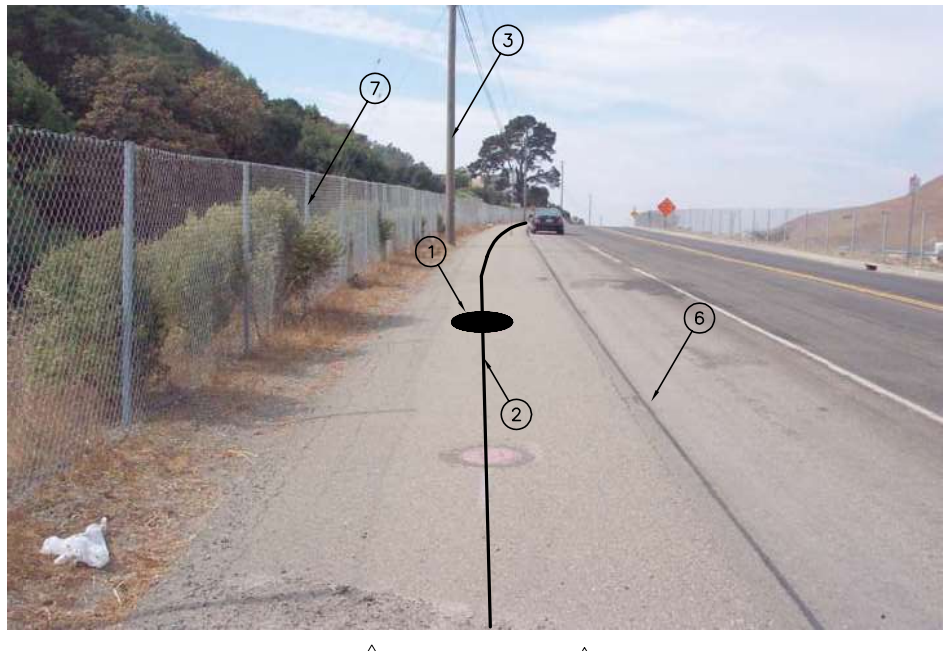
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



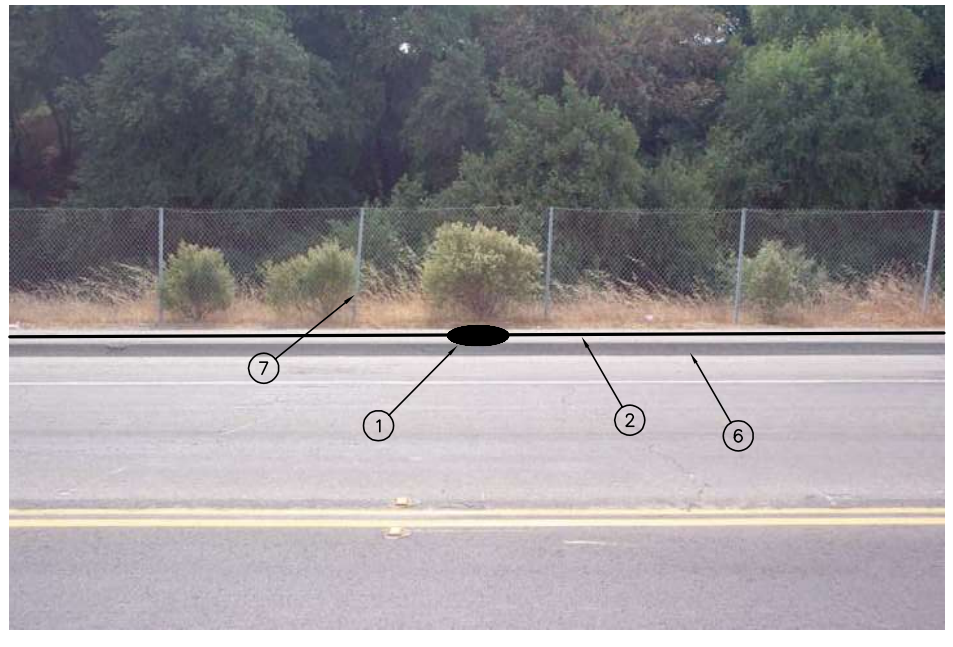
(1) ACCESS PIT #9 & (1) MANWAY STA 46+60 – PLAN
SCALE: 1" = 20'



(1) ACCESS PIT #9 & (1) MANWAY STA 46+60 – PHOTO 1
NOT TO SCALE



(1) ACCESS PIT #9 & (1) MANWAY STA 46+60 – PHOTO 2
NOT TO SCALE



(1) ACCESS PIT #9 & (1) MANWAY STA 46+60 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

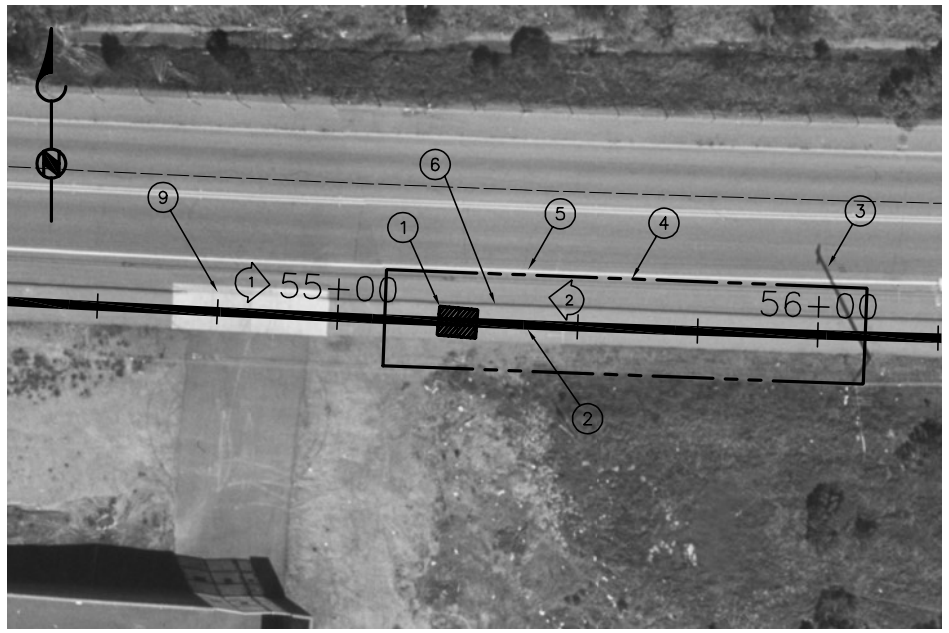
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

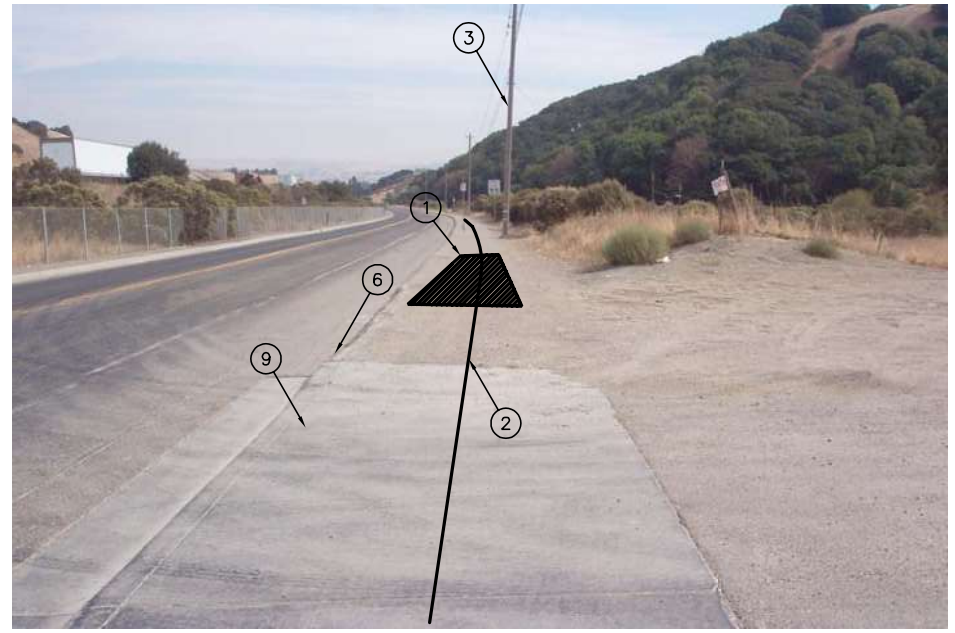
CIVIL

CONSTRUCTION LAYOUT ACCESS PIT #9 STA 46+00

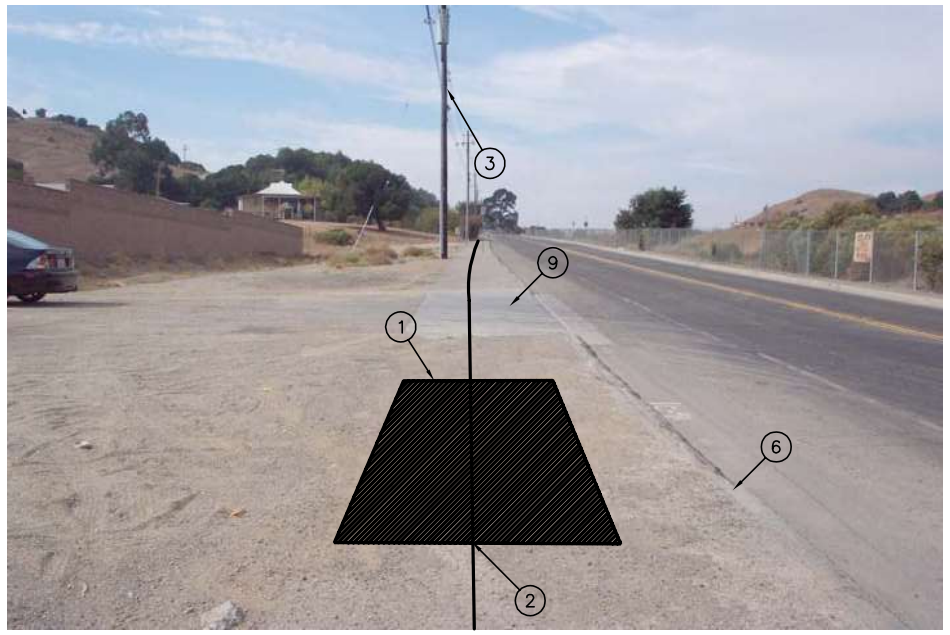
SCALE: AS SHOWN
DRAWING NUMBER: L9
SHEET NUMBER: 66



ACCESS PIT #10 (1) STA 55+25 – PLAN
SCALE: 1" = 20'



ACCESS PIT #10 (1) STA 55+25 – PHOTO 1
NOT TO SCALE



ACCESS PIT #10 (1) STA 55+25 – PHOTO 2
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #10 STA 55+25. SEE DWG C405.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED. COORDINATE FENCE REMOVAL WITH PROPERTY OWNER.

(8) EXISTING 18" SD. PROTECT IN PLACE.

(9) PROTECT EXISTING PAVED DRIVEWAY. DO NOT BLOCK DRIVEWAY AT ANY TIME.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

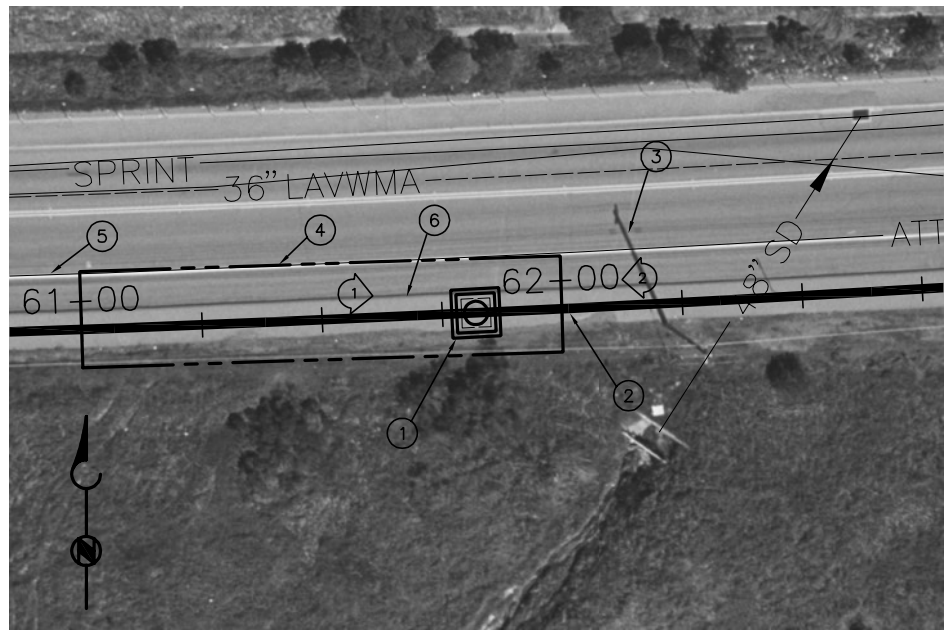
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

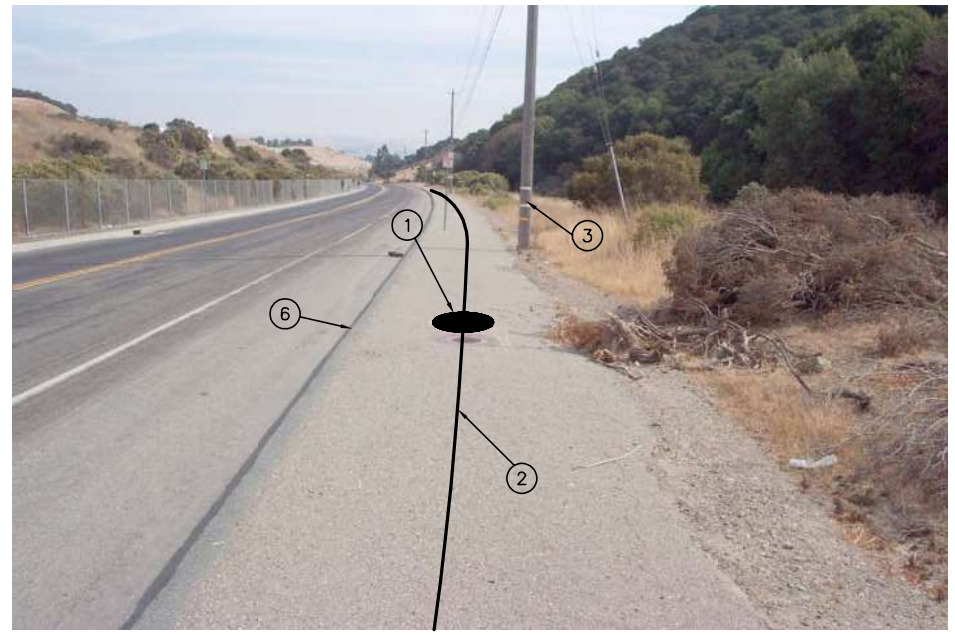
CONSTRUCTION LAYOUT
ACCESS PIT #10 STA 55+25

SCALE: AS SHOWN
DRAWING NUMBER: L10
SHEET NUMBER: 67

Filename: X-BORDER | X-SITE4 | x-proper | Image Filename: 184.tif | 185.tif | C51.tif | lavwma.jpg
Plotted by: zburke Xref Filename:
Plot date: Jun 18, 2007-02:59:57pm
Filename: DC-L10 | 1=1 | PC | 1-03 | L10



ACCESS PIT #11 & MANWAY STA 61+82 – PLAN
SCALE: 1" = 20'



ACCESS PIT #11 & MANWAY STA 61+82 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY ACCESS PIT #11, STA 61+82. SEE DWG C405.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITYPOLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT BANK. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

ACCESS PIT #11 & MANWAY STA 61+82 – PHOTO 2
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

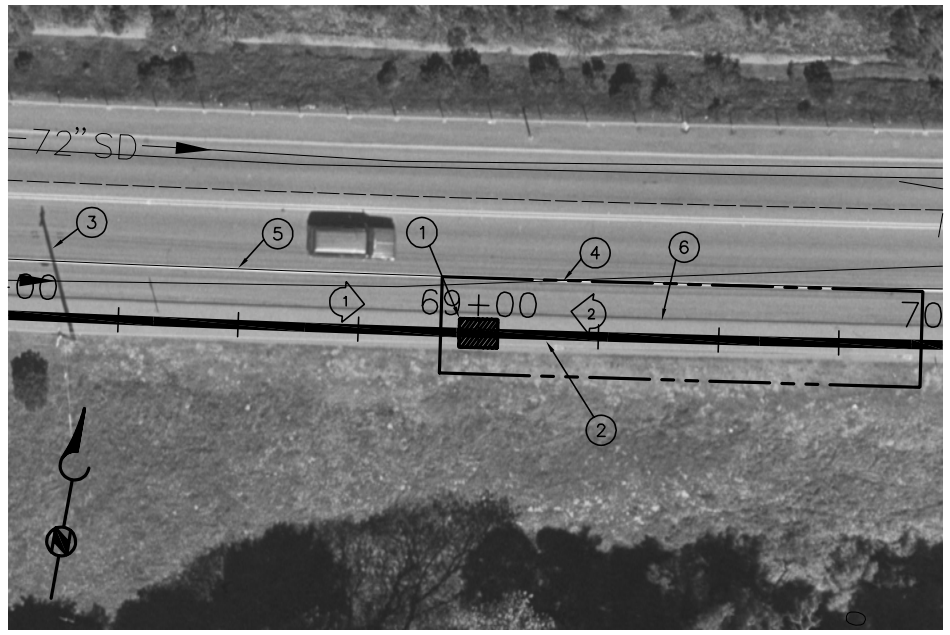
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #11 STA 61+82

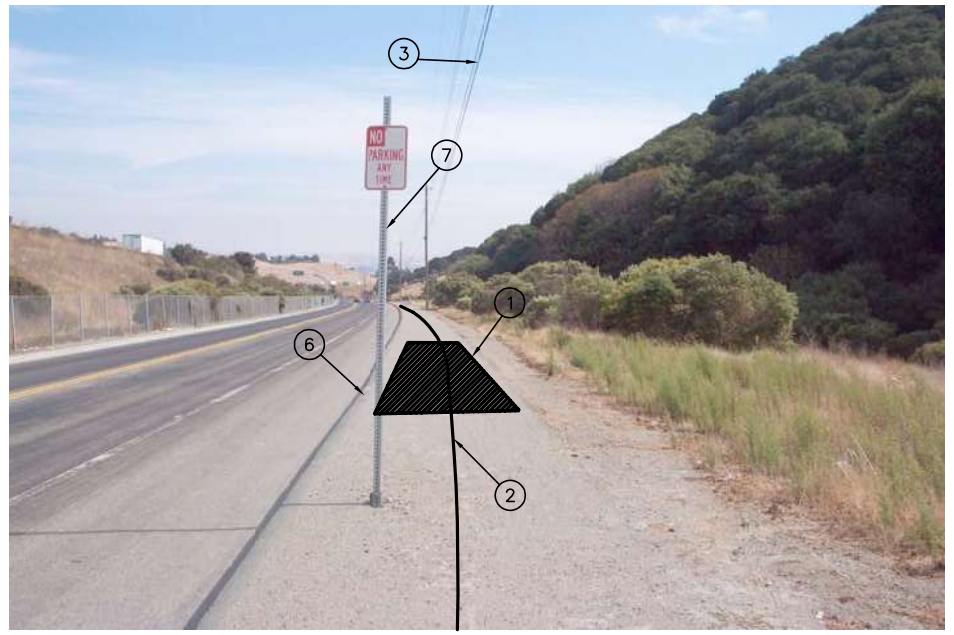
SCALE: AS SHOWN
DRAWING NUMBER: L11
SHEET NUMBER: 68

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 182.tif | 183.tif | C51.tif | lavwma.jpg
Filename: DC-L11 Plot date: Jun 18, 2007-02:59:32pm Plotted by: zburke. Xref Filename:
1=1
L11 10-23-02 pc

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 180.tif | 181.tif | C52.tif | lavwma.jpg
Filename: DC-L12 | Plot date: Jun 18, 2007-02:59:04pm | Plotted by: zburke | Xref
1=1
pc
1-03
L12



ACCESS PIT #12 STA 69+00 – PLAN
SCALE: 1" = 20'



ACCESS PIT #12 STA 69+00 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #12 STA 69+00. SEE DWG C406.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

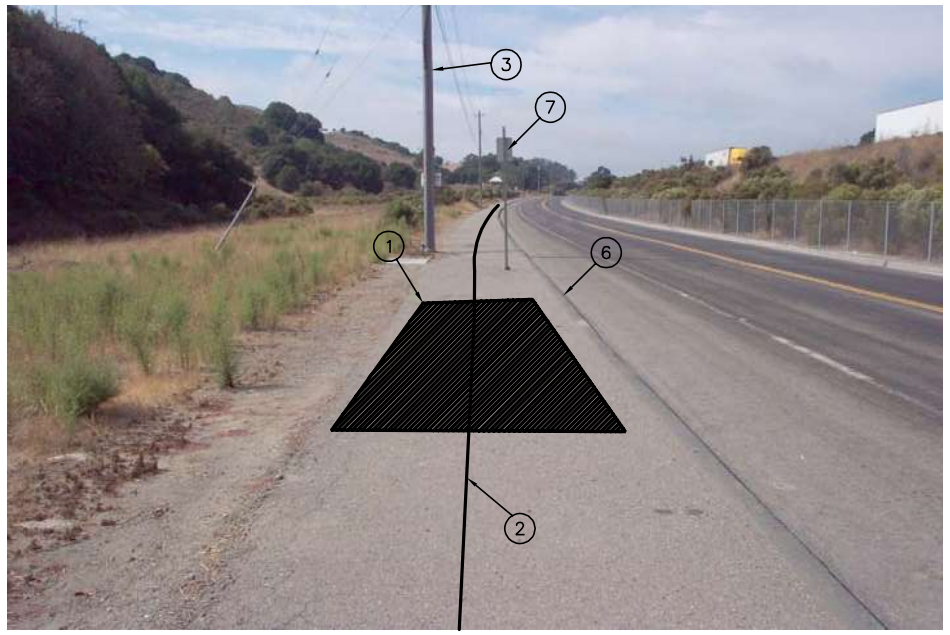
(5) EXISTING ATT DUCT BANK. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

(7) PROTECT EXISTING SIGN IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #12 STA 69+00 – PHOTO 2
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

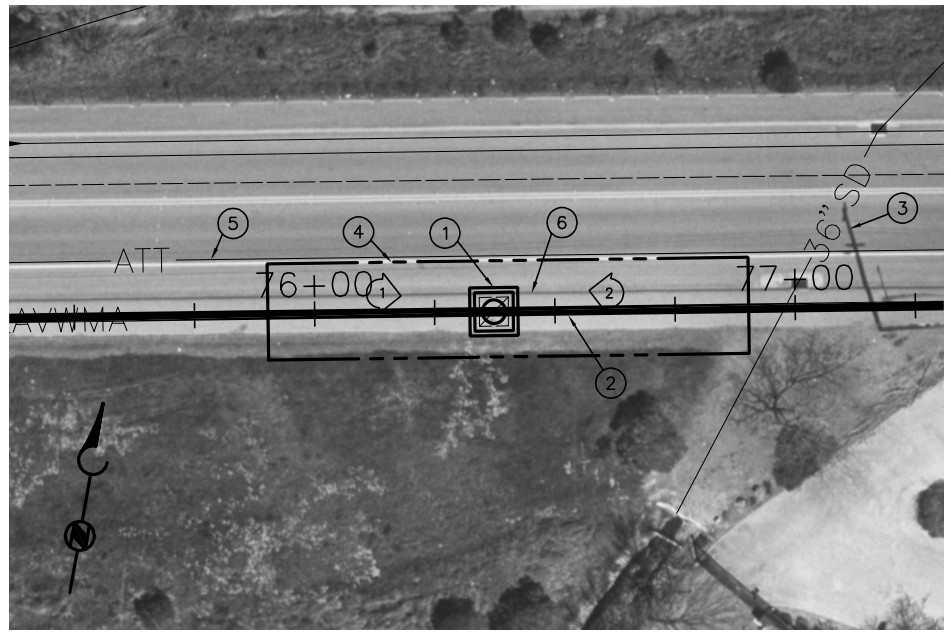
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

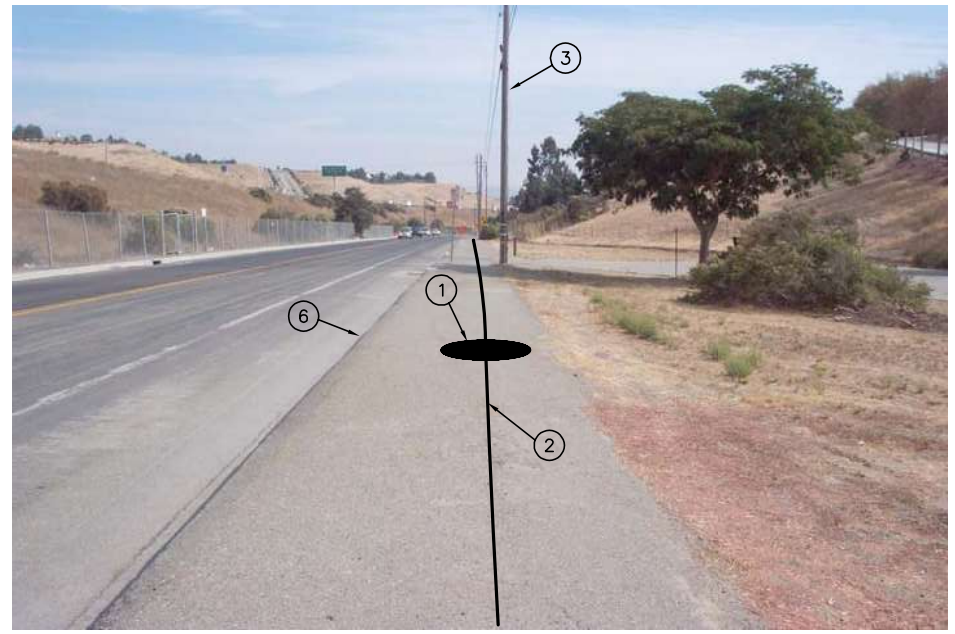
CIVIL

CONSTRUCTION LAYOUT ACCESS PIT #12 STA 69+00

SCALE: AS SHOWN
DRAWING NUMBER: L12
SHEET NUMBER: 69



ACCESS PIT #13 & MANWAY STA 76+39.31– PLAN
SCALE: 1" = 20'



ACCESS PIT #13 & MANWAY STA 76+39.31 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY (ACCESS PIT #13.) STA 76+39.31. SEE DWG C406.

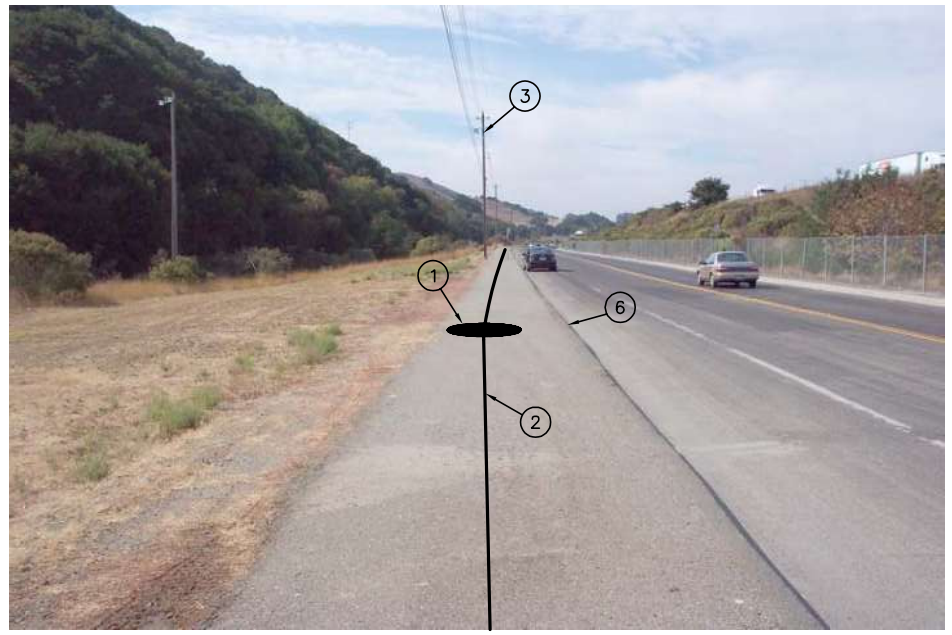
(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITYPOLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT BANK. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.



ACCESS PIT #13 & MANWAY STA 76+39.31 – PHOTO 2
NOT TO SCALE

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

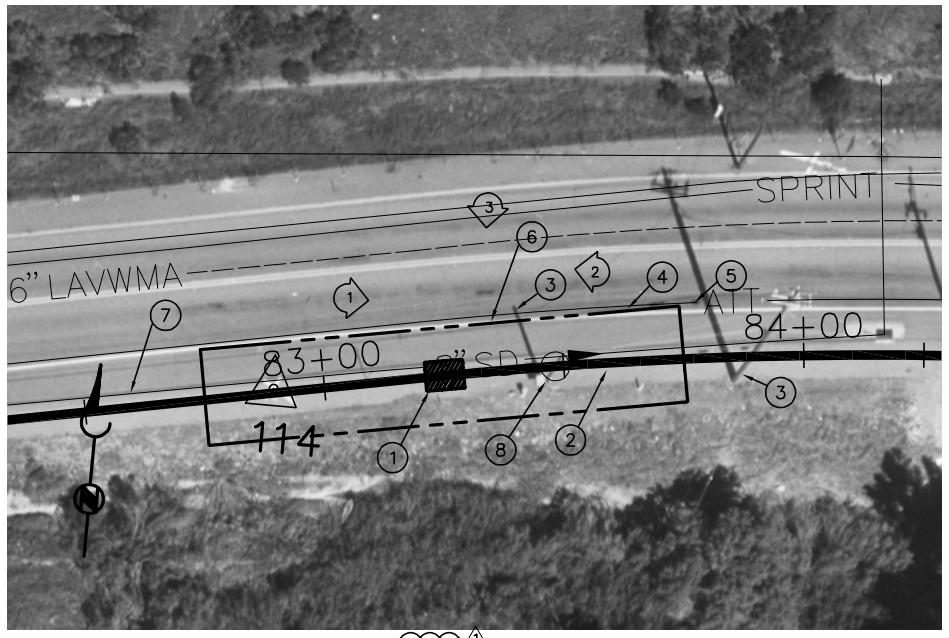
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

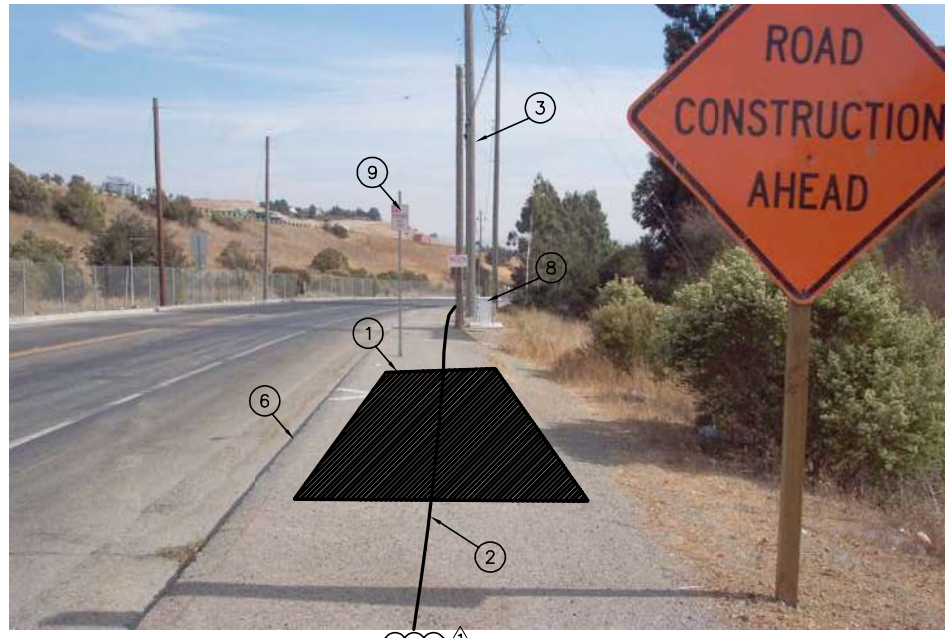
CONSTRUCTION LAYOUT
ACCESS PIT #13 STA 76+39.31

SCALE: AS SHOWN
DRAWING NUMBER: L13
SHEET NUMBER: 70

Filename: DC–L13 | Plot date: Jun 18, 2007–02:58:18pm | Plotted by: zburke | Xref Filename: 1=1 | pc | 1–03 | L13 | X–BORDER | X–SITE4 | x–exutil | x–proper | Image Filename: | 178.tif | 179.tif | C52.tif | lavwma.jpg



ACCESS PIT #14 STA 83+25 – PLAN
SCALE: 1" = 20'



ACCESS PIT #14 STA 83+25 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #14 STA 83+25. SEE DWG C407.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITYPOLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT BANK. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

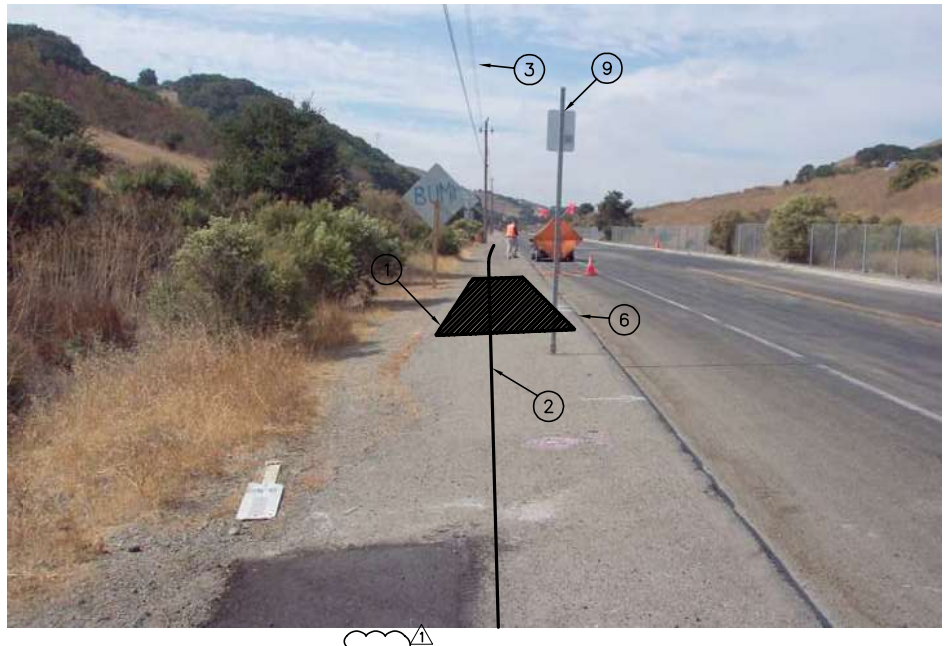
(7) EXISTING 8" SD. PROTECT IN PLACE.

(8) EXISTING CATHODIC TEST STATION. PROTECT IN PLACE.

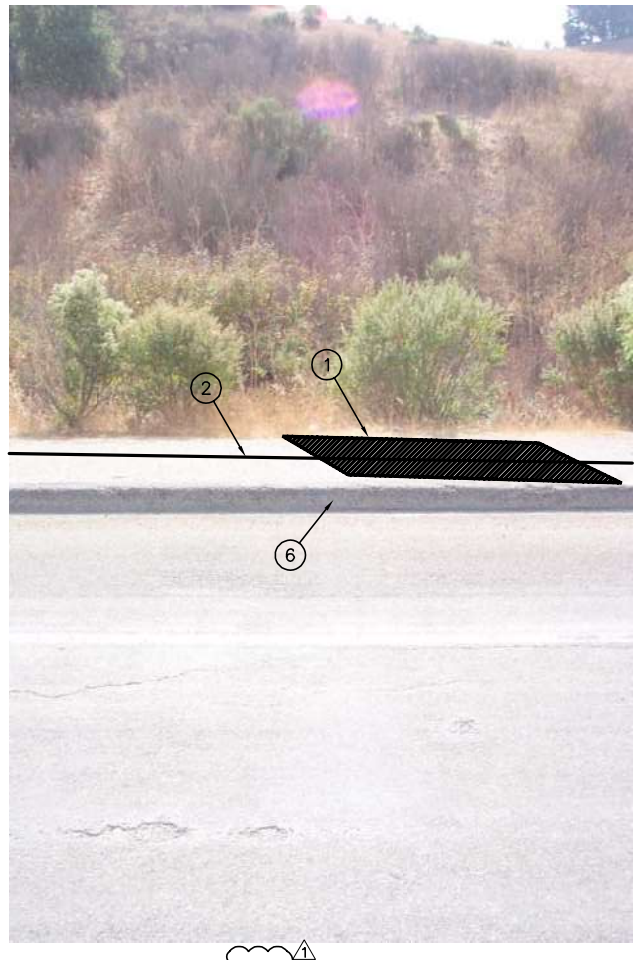
(9) REMOVE AND REPLACE EXISTING SIGN.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #14 STA 83+25 – PHOTO 2
NOT TO SCALE



ACCESS PIT #14 STA 83+25 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #14 STA 83+25

SCALE: AS SHOWN
DRAWING NUMBER: L14
SHEET NUMBER: 71

Filename: DC-L14 | Plot date: Jun 18, 2007-02:57:29pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: | 175.tif | 176.tif | 177.tif | C53.tif | lavwma.jpg | 1=1 | PC | 1-03 | L14

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 172.tif | 173.tif | 174.tif | C54.tif | lavwma.jpg
Filename: DC-L15 | 1=1 | PC | 1-03 | L15
Plotted by: zburke. Xref Filename:
Plot date: Jun 18, 2007-02:56:41pm

LEGEND

(1) DRAWING NOTE NUMBER

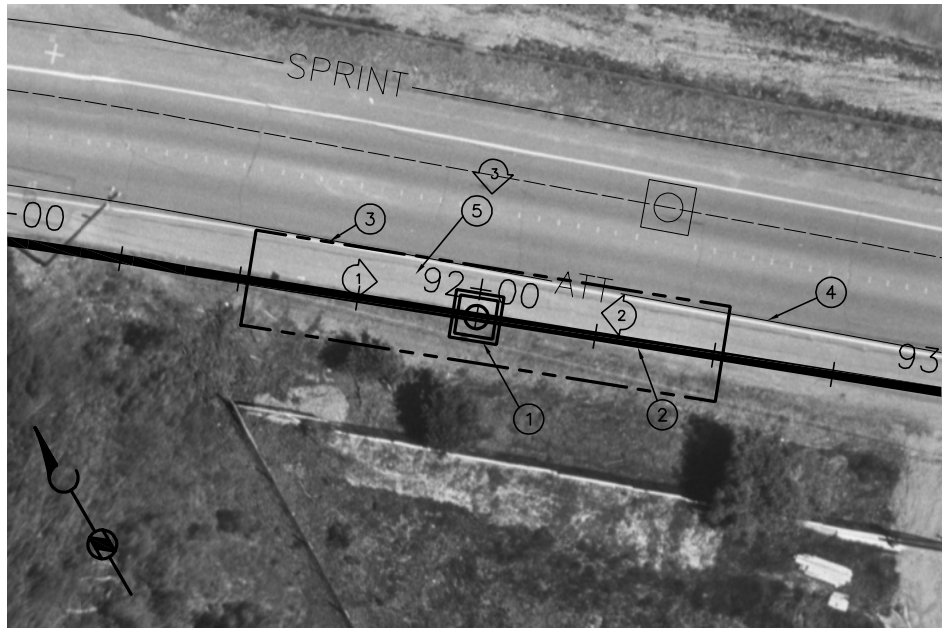
(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

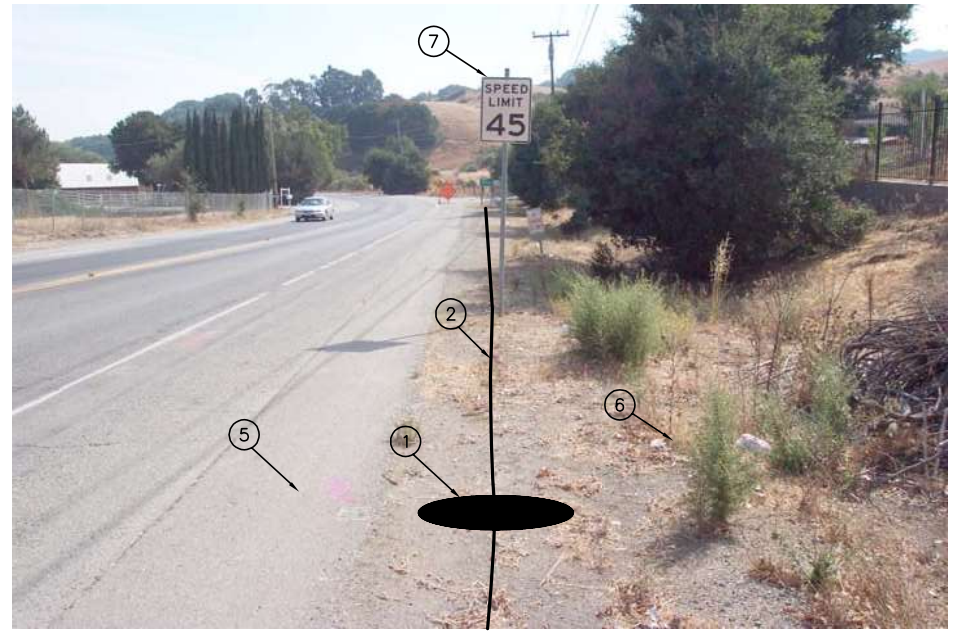
(1) CONSTRUCT NEW MANWAY ACCESS PIT #15, STA 92+00. SEE DWG C408.
(2) EXISTING 36" LAVWMA PIPELINE.
(3) LIMITS OF WORK AREA.
(4) EXISTING ATT DUCT BANK. PROTECT IN PLACE.
(5) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT MANWAY.
(6) REMOVE EXISTING VEGETATION AS REQUIRED TO CONSTRUCT MANWAY.
(7) PROTECT EXISTING SIGN IN PLACE.

GENERAL NOTES:

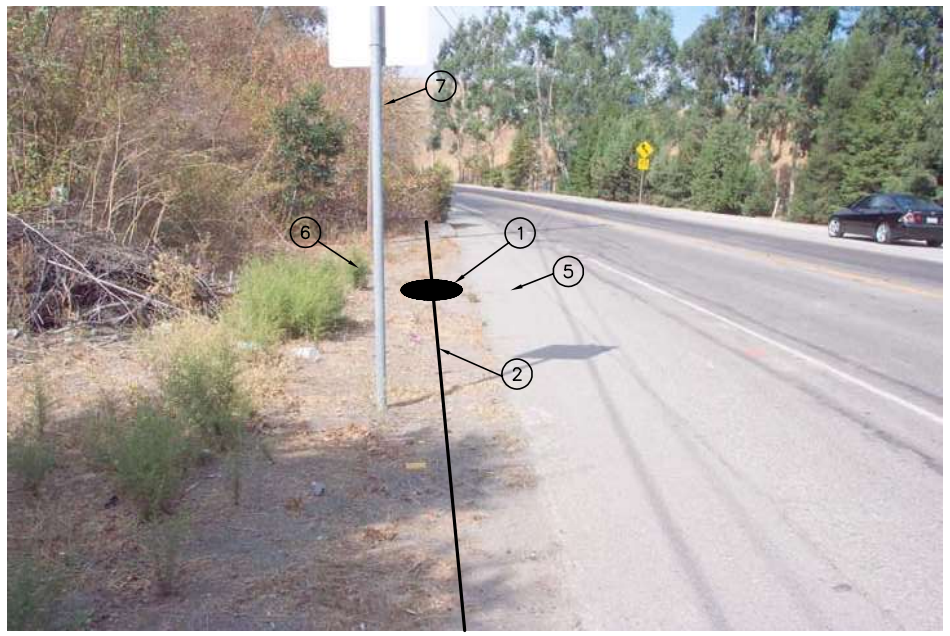
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



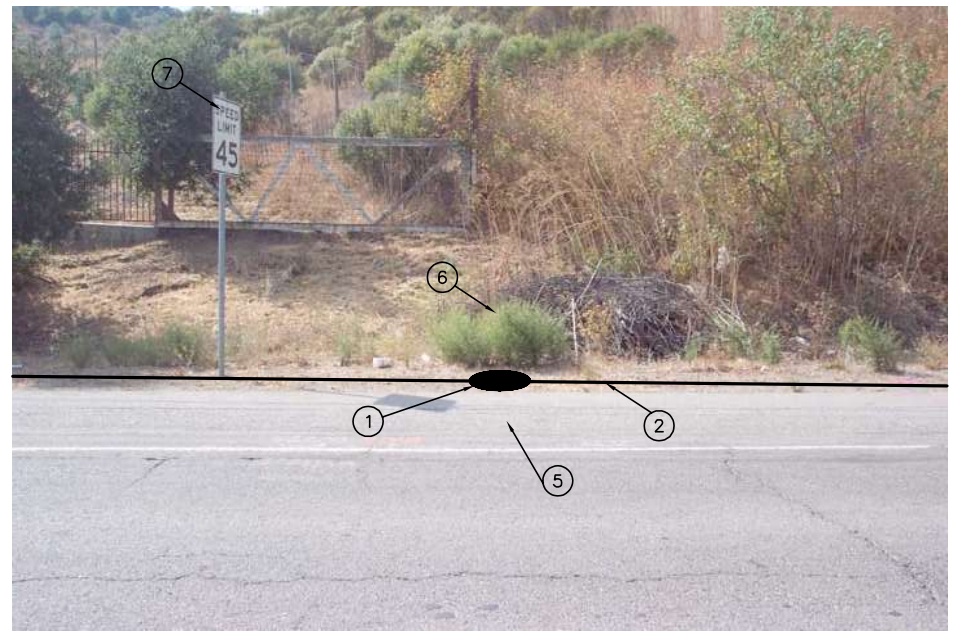
ACCESS PIT #15 & MANWAY STA 92+00 – PLAN
SCALE: 1" = 20'



ACCESS PIT #15 & MANWAY STA 92+00 – PHOTO 1
NOT TO SCALE



ACCESS PIT #15 & MANWAY STA 92+00 – PHOTO 2
NOT TO SCALE



ACCESS PIT #15 & MANWAY STA 92+00 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL			RECORD DRAWING	REVISIONS						LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY	CIVIL	SCALE
SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)		THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.	ZONE	REV.	DESCRIPTION	BY	DATE	APP.	EXPORT PIPELINE FACILITIES PROGRAM PIPELINE REHABILITATION REPAIR PROJECT PROJECT 2003-01		AS SHOWN
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02	FILE 22471			VAR	1	RECORD DRAWING	TU	5/06	CWJ		CONSTRUCTION LAYOUT ACCESS PIT #15 STA 92+00	DRAWING NUMBER L15
APPROVED: — DATE:	DRAWN P. CHIN											SHEET NUMBER 72
	DESIGNED J. GLYNN											
	CHECKED C. JOYCE											
	CHECKED											

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY/ACCESS PIT #16, STA 100+17.18. SHIFT STRUCTURE AS FAR NORTH AS FEASIBLE TO AVOID EXISTING SPRINT LINE WHILE STILL AVODING 12" W TO THE NORTH. SEE DWG C408.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) LIMITS OF WORK AREA.

(4) EXISTING SPRINT LINE. PROTECT IN PLACE.

(5) EXISTING DUAL 24"SD. PROTECT IN PLACE.

(6) EXISTING 10" SS. PROTECT IN PLACE.

(7) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT MANWAY.

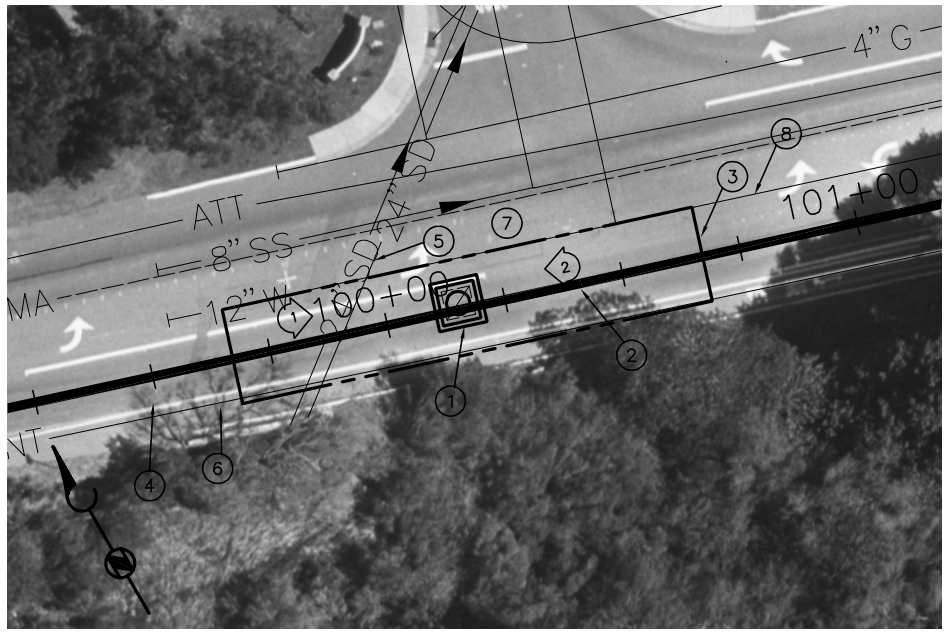
(8) EXISTING 12" W. PROTECT IN PLACE.

(9) SEE TRAFFIC CONTROL PLAN FOR THIS LOCATION.

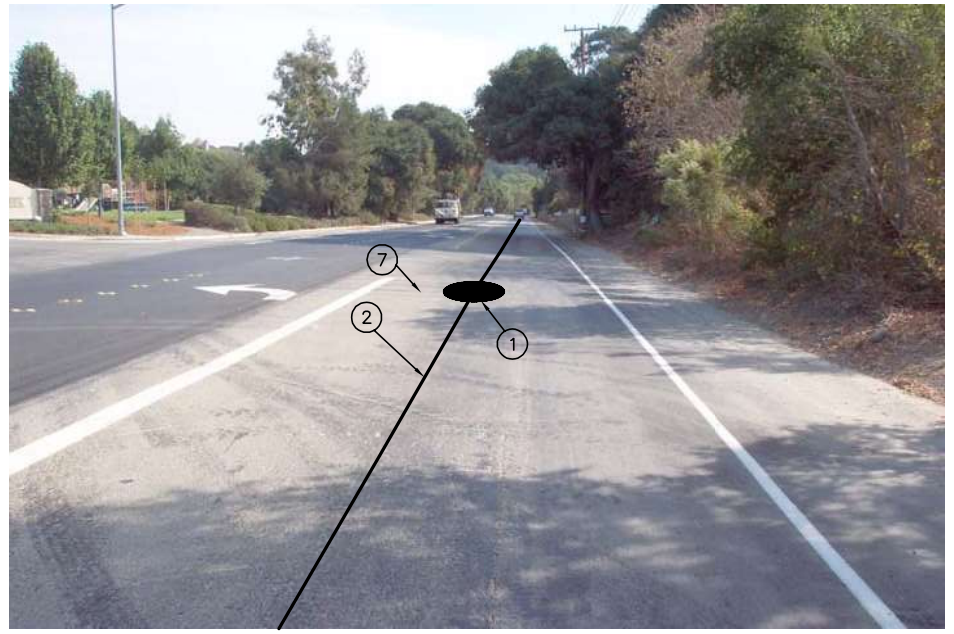
(10) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

GENERAL NOTES:

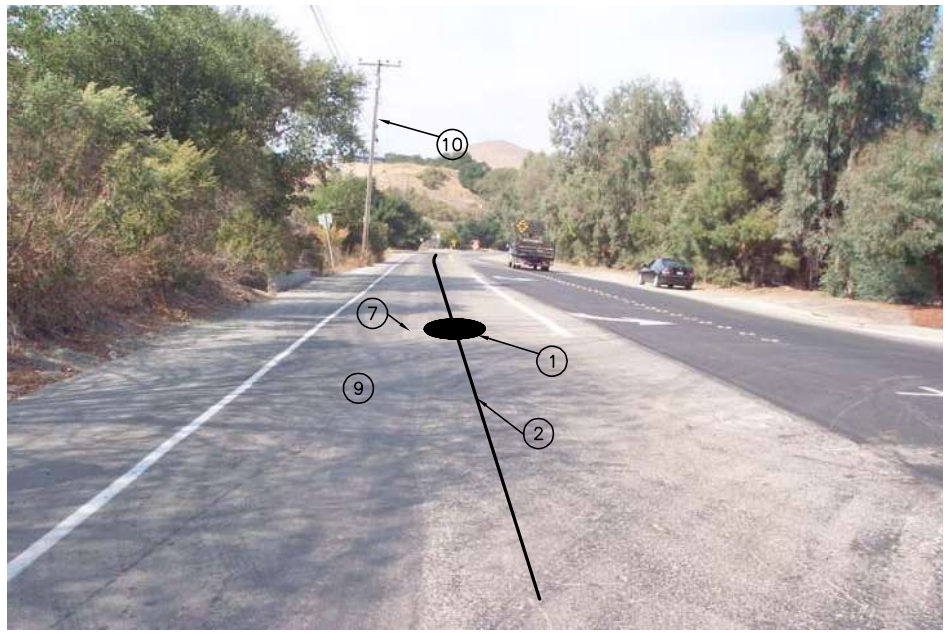
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #16 & MANWAY STA 100+17.18 – PLAN
SCALE: 1" = 20'



ACCESS PIT #16 & MANWAY STA 100+17.18 – PHOTO 1
NOT TO SCALE



ACCESS PIT #16 & MANWAY STA 100+17.18 – PHOTO 2
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

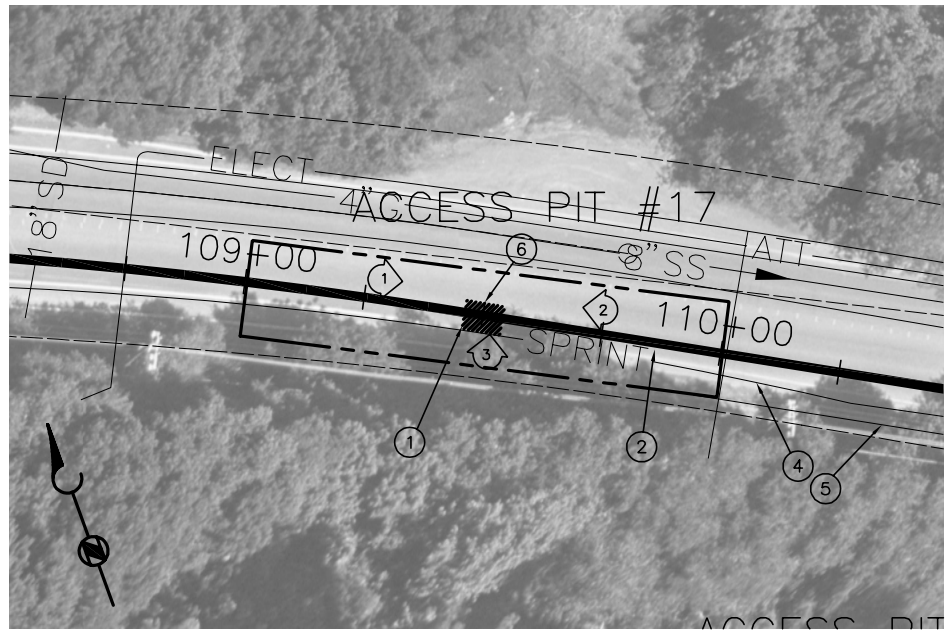
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

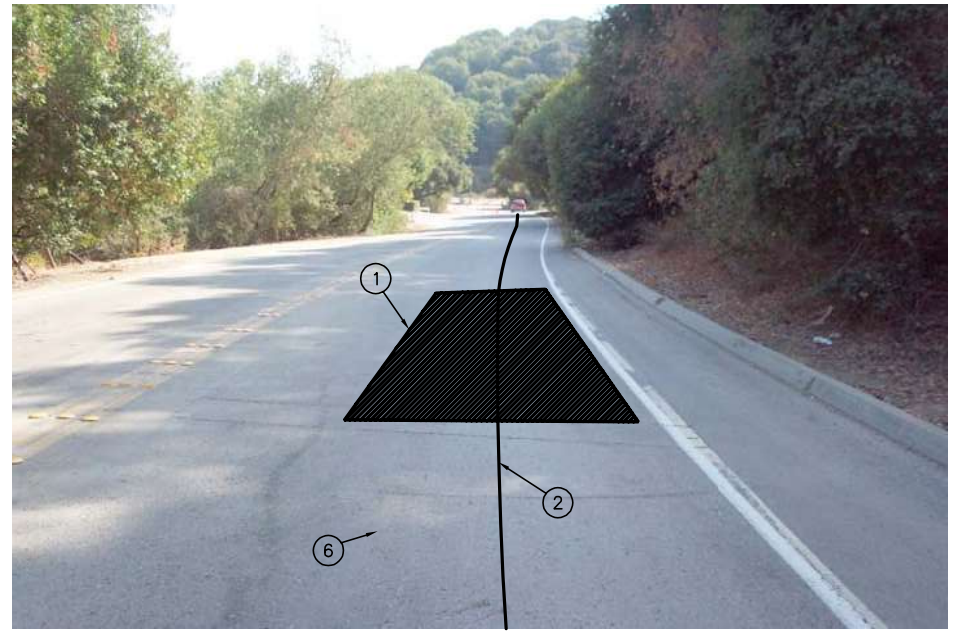
CONSTRUCTION LAYOUT
ACCESS PIT #16 STA 100+17.18

SCALE: AS SHOWN
DRAWING NUMBER: L16
SHEET NUMBER: 73

Filename: DC-L16 | 1=1 | PC | Plot date: Jun 18, 2007-02:55:54pm | 1-03 | Plotted by: zburke | Xref Filename: L16 | X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: | 170.tif | 171.tif | C54.tif | lavwma.jpg



ACCESS PIT #17 STA 109+50 – PLAN
SCALE: 1" = 20'



ACCESS PIT #17 STA 109+50 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

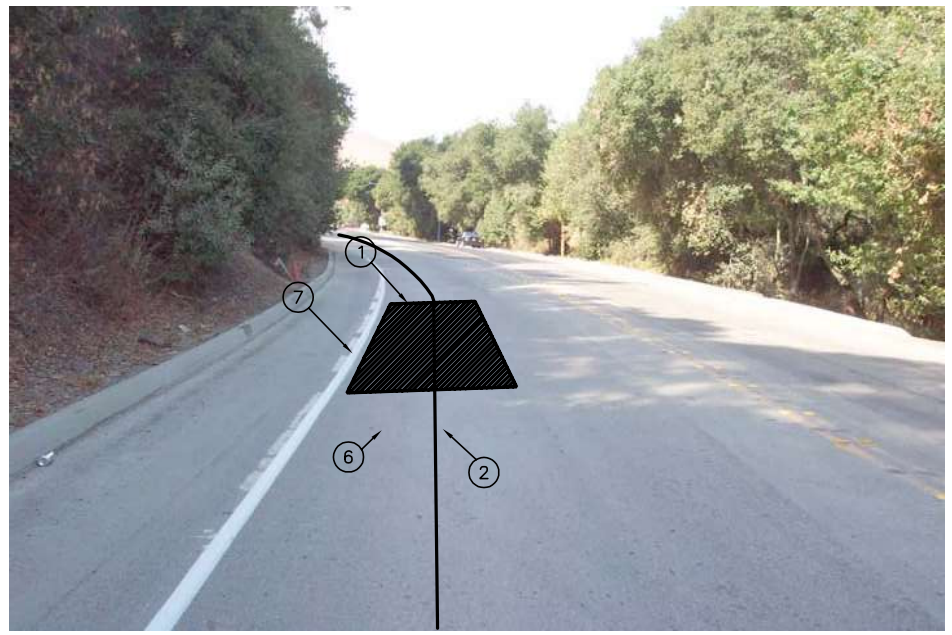
<3> "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

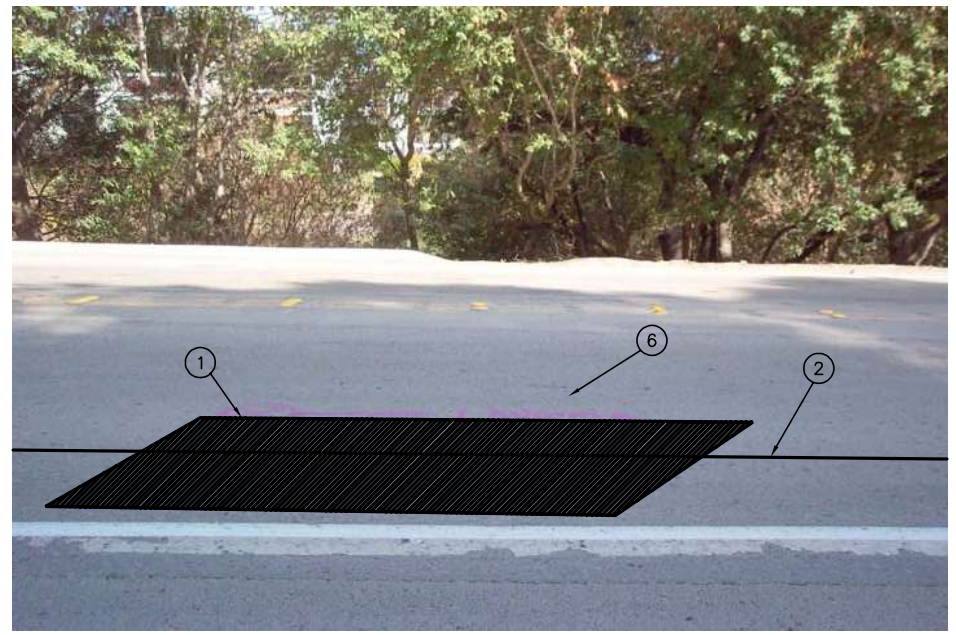
(1) ACCESS PIT#17 STA 109+50. SEE DWG C409.
(2) EXISTING 36" LAVWMA PIPELINE.
(3) LIMITS OF WORK AREA.
(4) EXISTING SPRINT LINE. PROTECT IN PLACE.
(5) EXISTING 10" SS. PROTECT IN PLACE.
(6) REMOVE AND REPLACE PAVEMENT AS REQUIRED.
(7) SEE TRAFFIC CONTROL PLAN FOR THIS LOCATION.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. CONTRACTOR SHALL PROVIDE A SHORING SYSTEM FOR THIS ACCESS PIT EXCAVATION THAT CAN EFFECTIVELY PREVENT SLUMPING OF ADJACENT SLOPE.
7. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #17 STA 109+50 – PHOTO 2
NOT TO SCALE



ACCESS PIT #17 STA 109+50 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

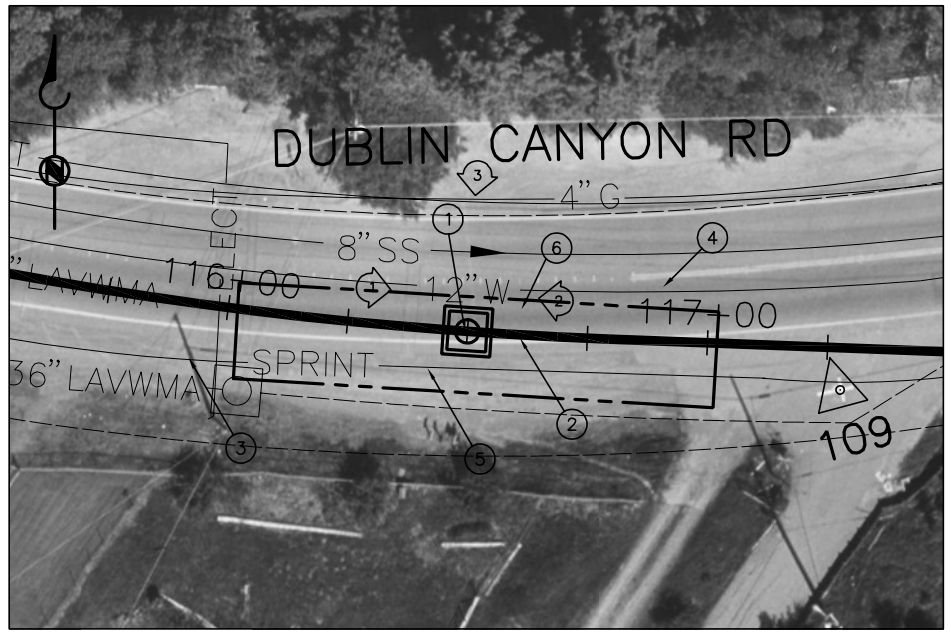
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #17 STA 109+50

SCALE: AS SHOWN
DRAWING NUMBER: L17
SHEET NUMBER: 74

Filename: DC-L17 | Plot date: Jun 18, 2007-02:55:02pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: | 167.tif | 168.tif | 169.tif | C55.tif | lavwma.jpg | 1=1 | PC | 1-03 | L17

lavwma.j | DSC00061.JPG | DSC00060.JPG | DSC00059.JPG | C56.tif | Image Filename: | x-proper | x-exutil | X-SITE4 | X-BORDER | Xref Filename: | Plotted by: zburke, 2007-02:54:27pm | Plot date: Jun 18, | DC-L18 | 1=1 | PC | 1-03 | L18



ACCESS PIT #18 & MANWAY STA 116+50 – PLAN
SCALE: 1" = 20'



ACCESS PIT #18 & MANWAY STA 116+50 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) CONSTRUCT NEW MANWAY (ACCESS PIT #18,) STA 116+50. SEE DWG C410.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING SPRINT LINE. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT MANWAY.

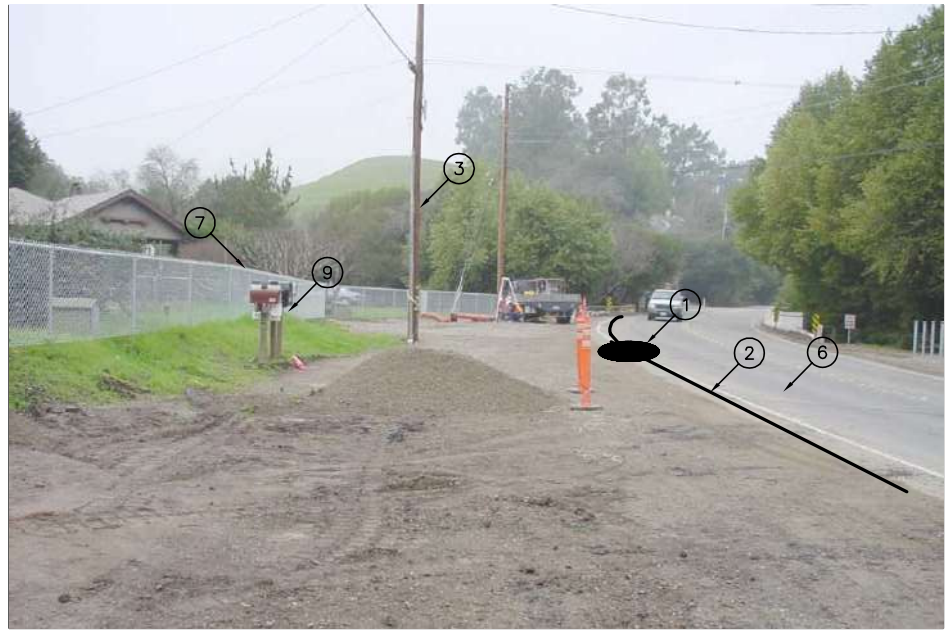
(7) REMOVE AND REPLACE EXISTING FENCE IN KIND AS REQUIRED TO CONSTRUCT MANWAY.

(8) EXISTING 12" W. PROTECT IN PLACE.

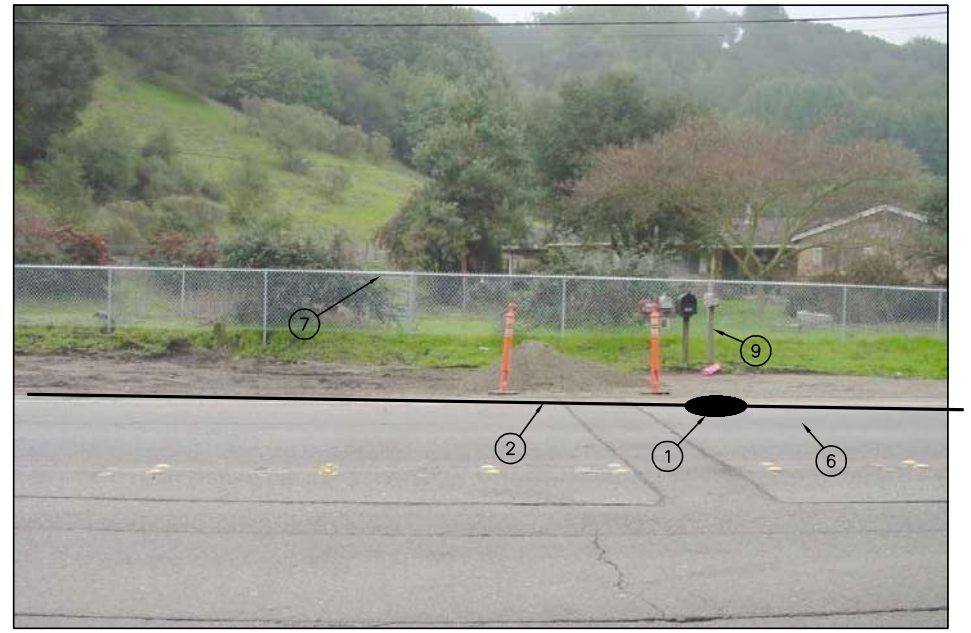
(9) PROTECT EXISTING MAIL BOXES IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #18 & MANWAY STA 116+50 – PHOTO 2
NOT TO SCALE



ACCESS PIT #18 & MANWAY STA 116+50 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

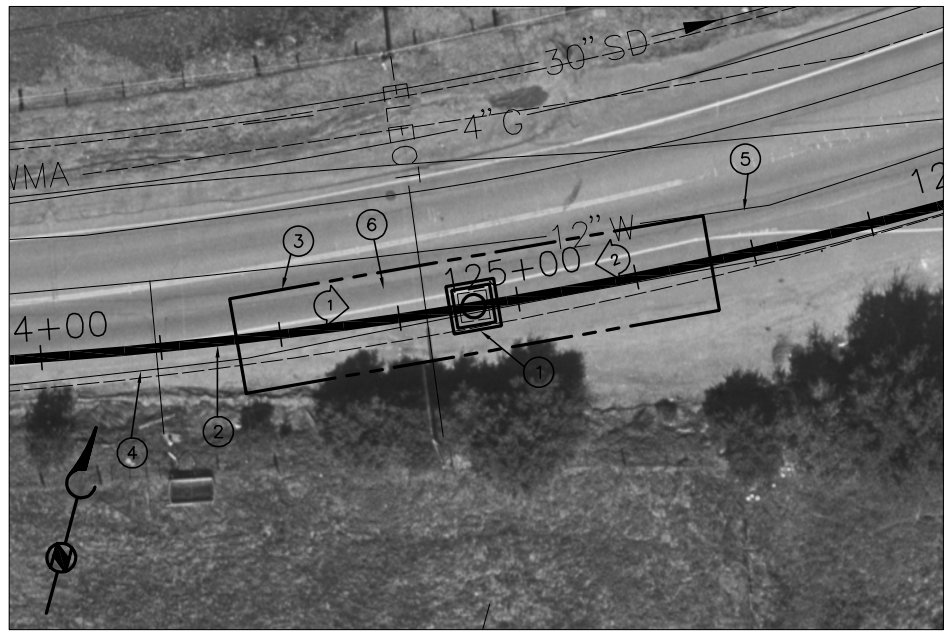
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

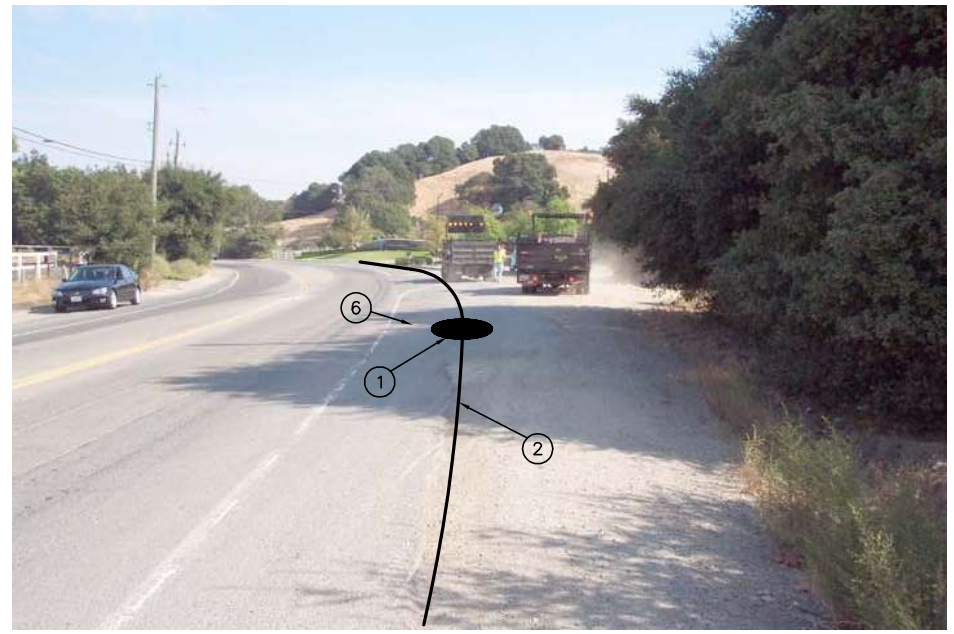
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #18 STA 116+50

SCALE: AS SHOWN
DRAWING NUMBER: L18
SHEET NUMBER: 75



ACCESS PIT #19 & MANWAY STA 124+92.66 – PLAN
SCALE: 1" = 20'



ACCESS PIT #19 & MANWAY STA 124+92.66 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY ACCESS PIT #19, STA 124+92.66. SEE DWG C410.

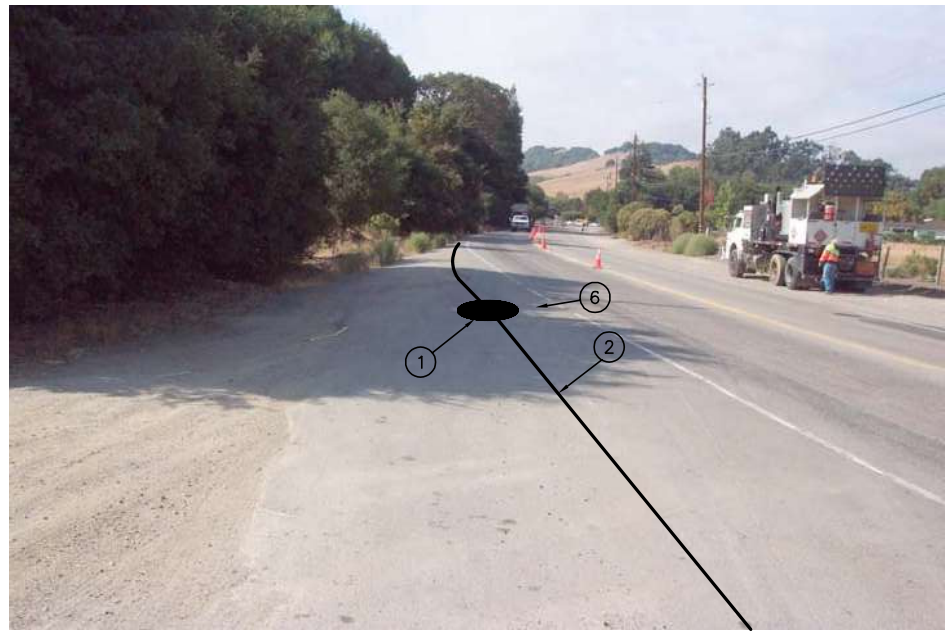
(2) EXISTING 36" LAVWMA PIPELINE.

(3) LIMITS OF WORK AREA.

(4) EXISTING SPRINT LINE. PROTECT IN PLACE.

(5) EXISTING 12" W. PROTECT IN PLACE.

(6) REMOVE AND REPLACE PAVEMENT AS REQUIRED TO CONSTRUCT MANWAY.



ACCESS PIT # 19 & MANWAY STA 124+92.66 – PHOTO 2
NOT TO SCALE

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #19 STA 124+92.66

SCALE: AS SHOWN
DRAWING NUMBER: L19
SHEET NUMBER: 76

Filename: DC-L19 | Plot date: Jun 18, 2007-02:53:38pm | Plotted by: zburke. Xref Filename: L19 1-03 PC 1=1 X-BORDER X-SITE4 x-exutil x-proper Image Filename: 161.tif 162.tif C56.tif lavwma.jpg

lavwma.j | DSC00064.JPG | DSC00063.JPG | DSC00062.JPG | C57.tif | Image Filename: | x-proper | x-exutil | X-SITE4 | X-BORDER | Filename: DC-L20 | Plot date: Jun 18, 2007-02:52:57pm | Plotted by: zburke. Xref | 1=1 | PC | 1-03 | L20

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #20 STA 133+00. SEE DWG C411.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING 4" GAS. POTHOLE PRIOR TO EXCAVATION OF ACCESS PIT AND PROTECT IN PLACE..

(6) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED.

(7) REMOVE AND REPLACE EXISTING SIGN AS REQUIRED.

(8) COORDINATE WITH ADJACENT LANDOWNER TO MAINTAIN ACCESS TO DRIVEWAY.

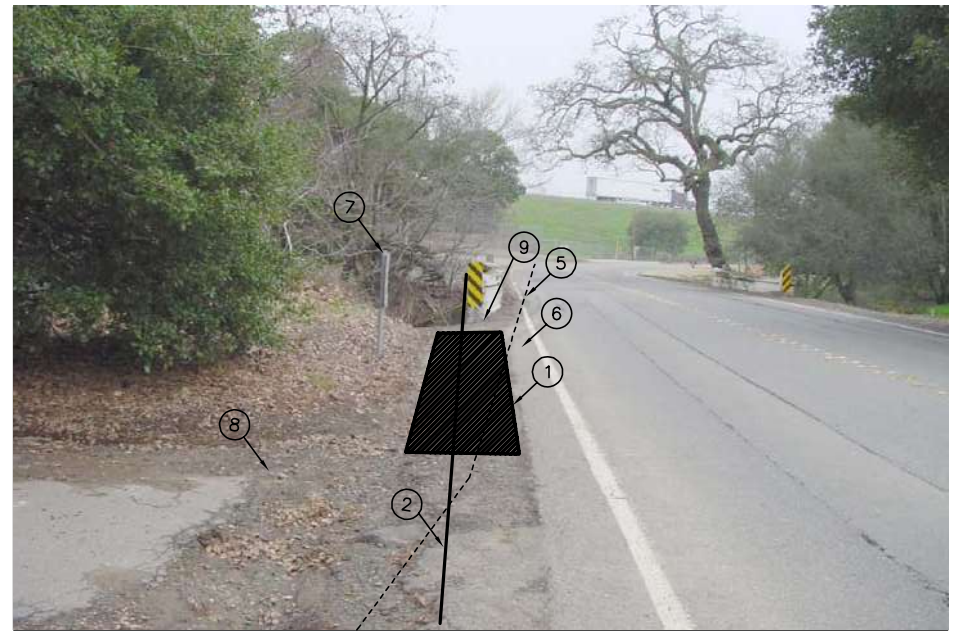
(9) ACCESS PIT CONSTRUCTION MAY BLOCK TYPICAL FLOW OF RAIN WATER DOWN THE STREET INTO THE CREEK. CONTRACTOR SHALL ADQUATE PROTECTION OF ACCESS PIT WHILE MAINTAINING DRAINAGE FLOW TO THE CREEK.

GENERAL NOTES:

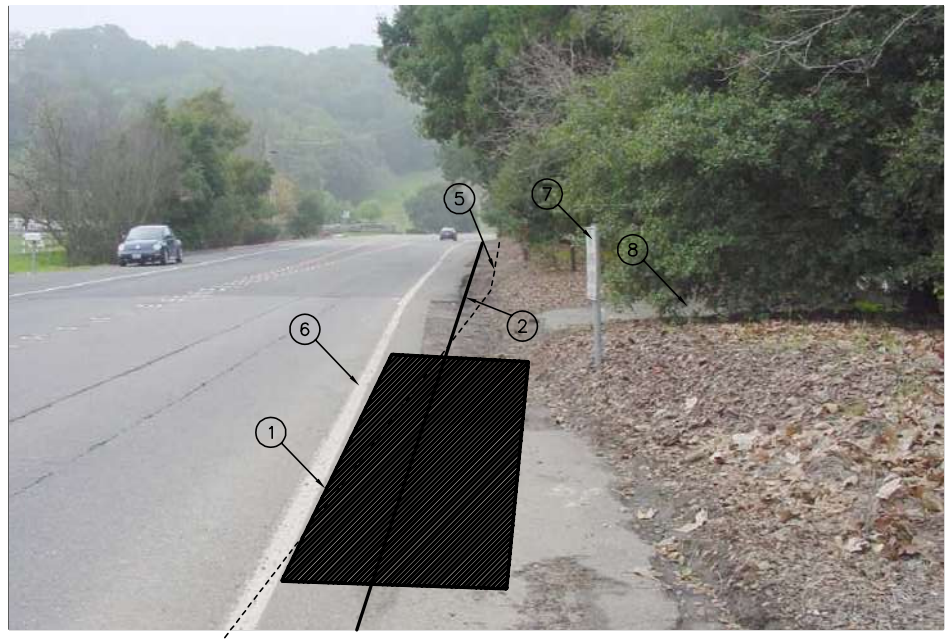
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



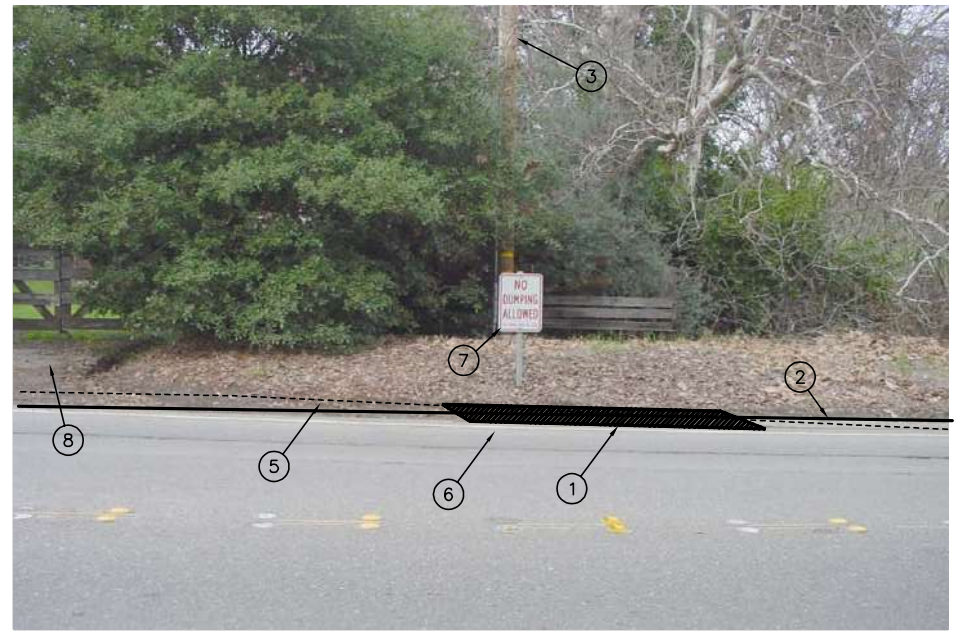
ACCESS PIT #20 STA 133+00 – PLAN (1)
SCALE: 1" = 20'



ACCESS PIT #20 STA 133+00 – PHOTO 1 (1)
NOT TO SCALE



ACCESS PIT #20 STA 133+00 – PHOTO 2 (1)
NOT TO SCALE



ACCESS PIT #20 STA 133+00 – PHOTO 3 (1)
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

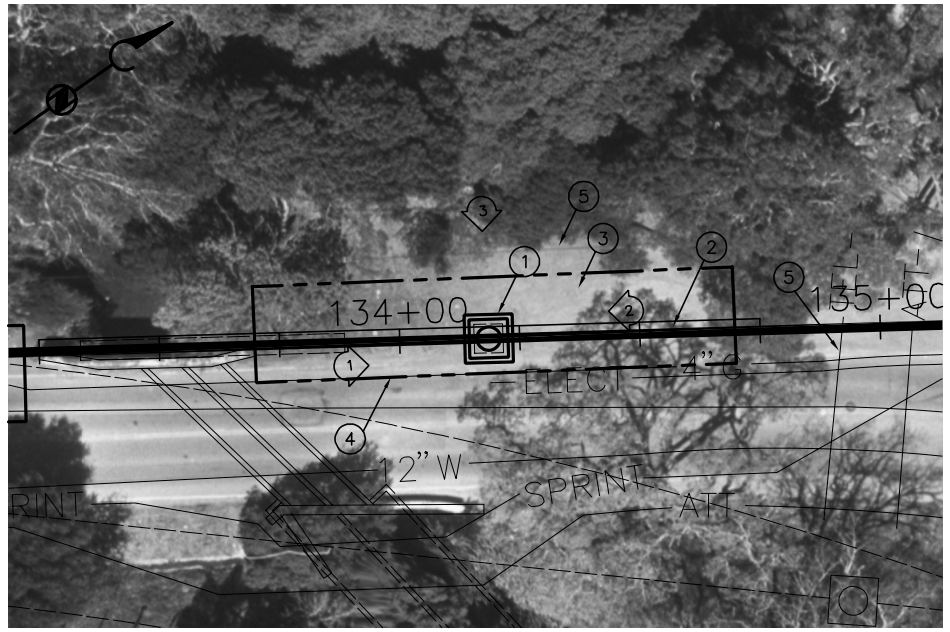
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

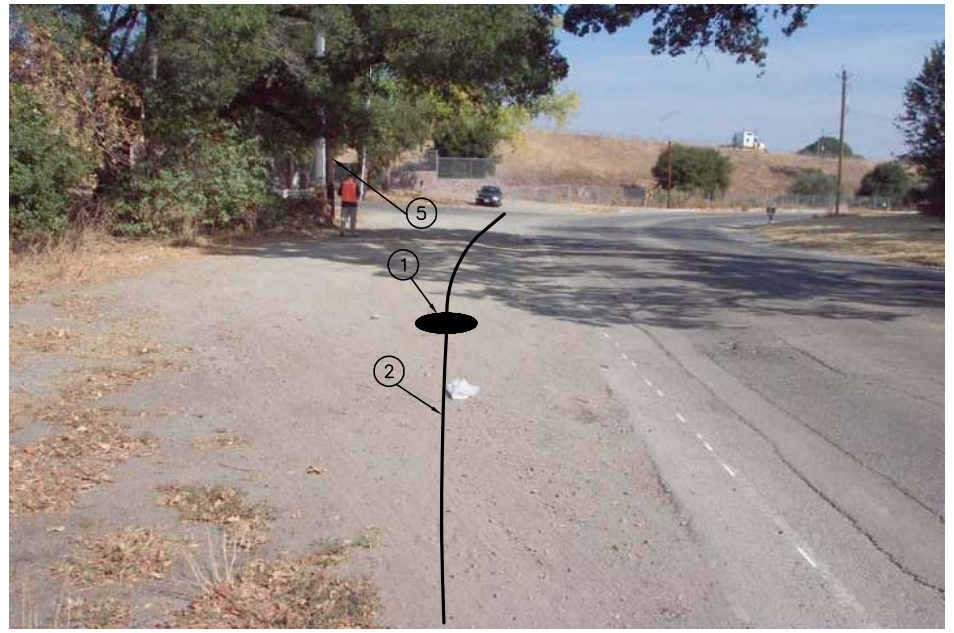
CONSTRUCTION LAYOUT
ACCESS PIT #20 STA 133+00

SCALE: AS SHOWN
DRAWING NUMBER: L20
SHEET NUMBER: 77

10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1
A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P
Filename: DC-L21 | Plot date: Jun 18, 2007-02:52:17pm | Plotted by: zburke | Xref Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 158.tif | 159.tif | 160.tif | C57.tif | lavwma.jpg
1=1 | PC | 1-03 | L21



ACCESS PIT #21 & MANWAY STA 134+17 – PLAN
SCALE: 1" = 20'



ACCESS PIT #21 & MANWAY STA 134+17 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

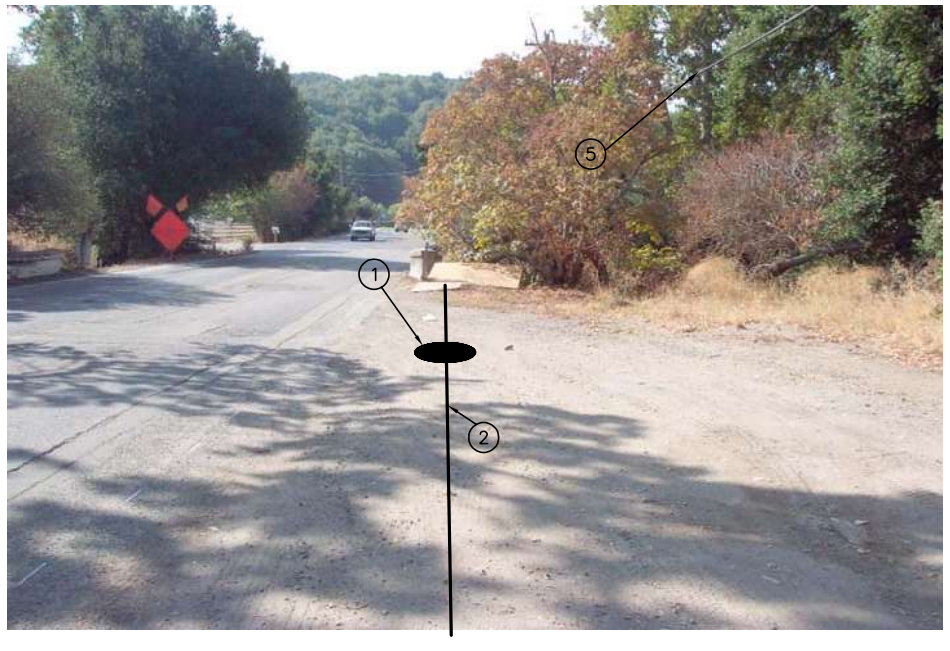
(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY (ACCESS PIT #21, STA 134+17) SEE DWG C411.

(2) EXISTING 36" LAVWMA PIPELINE.

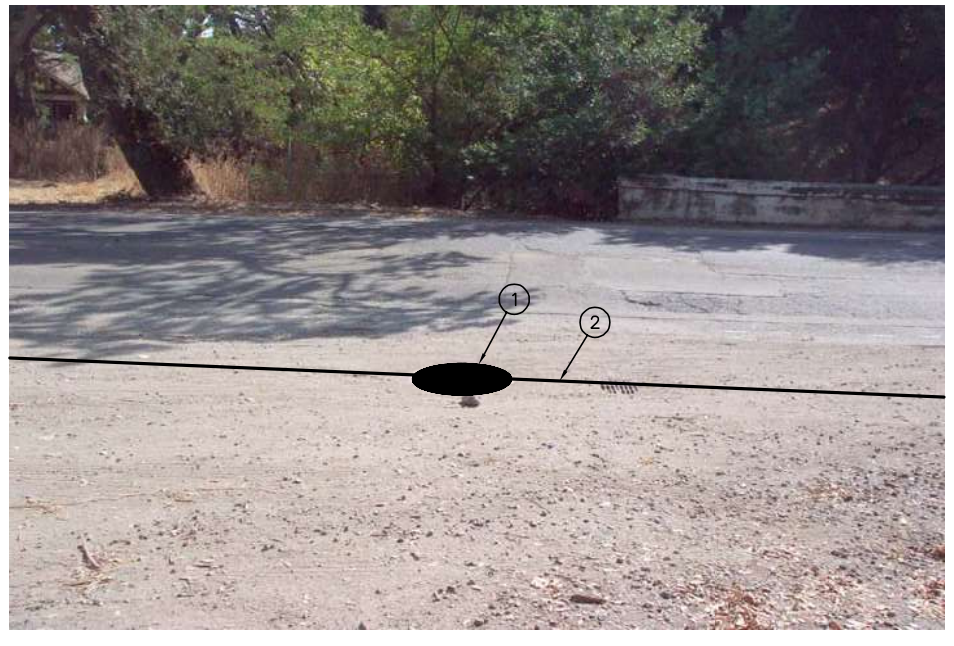
(3) LIMITS OF WORK AREA.

(4) EXISTING 4" GAS LINE. PROTECT IN PLACE.

(5) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND UTILITY LINE PROTECTION WITH PG&E.



ACCESS PIT #21 & MANWAY STA 134+17 – PHOTO 2
NOT TO SCALE



ACCESS PIT #21 & MANWAY STA 134+17 – PHOTO 3
NOT TO SCALE

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

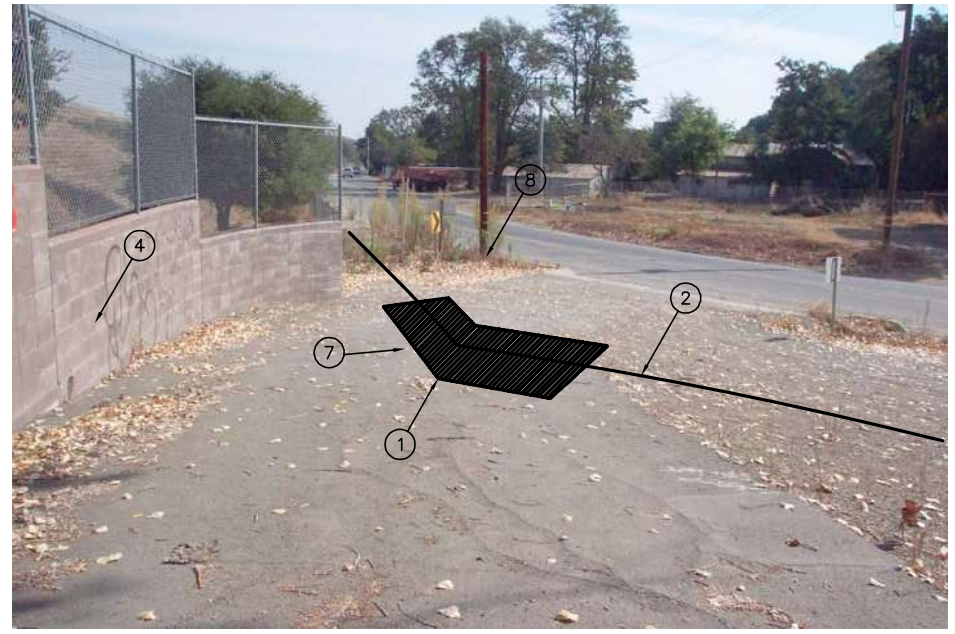
CONSTRUCTION LAYOUT
ACCESS PIT #21 STA 134+17

SCALE: AS SHOWN
DRAWING NUMBER: L21
SHEET NUMBER: 78

Filename: DC-L22 | Plot date: Jun 18, 2007-02:51:20pm | Plotted by: zburke | Xref Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 155.tif | 156.tif | 157.tif | C57.tif | lavwma.jpg



ACCESS PIT #22 STA 136+53.31 – PLAN
SCALE: 1" = 20'



ACCESS PIT #22 STA 136+53.31 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

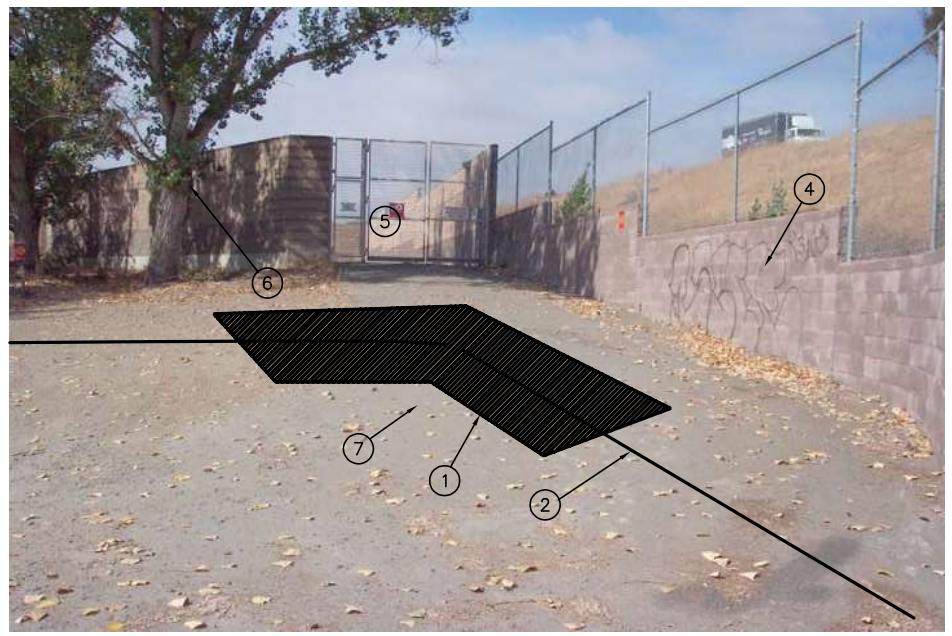
(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

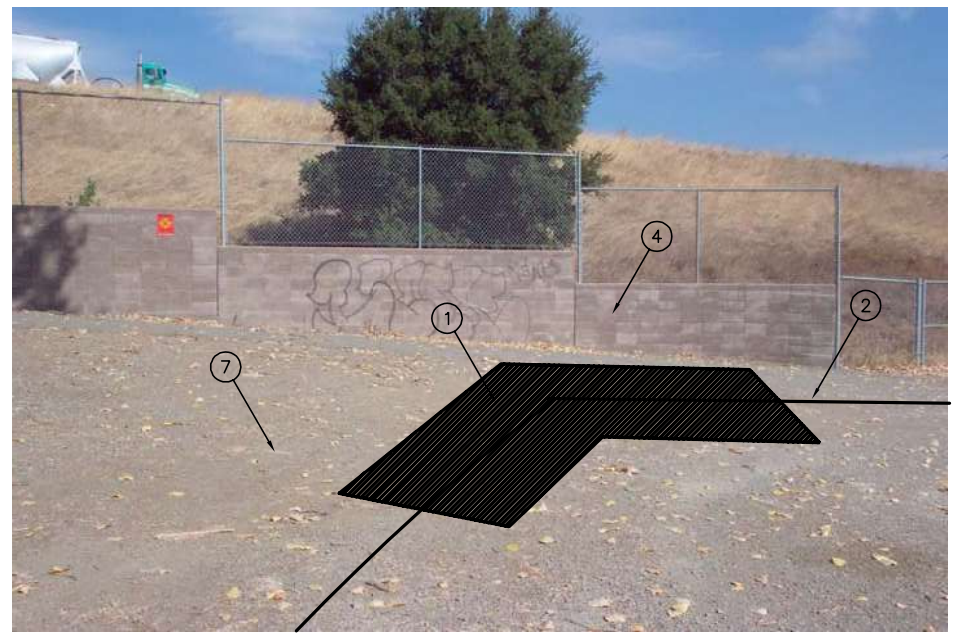
(1) ACCESS PIT #22 STA 136+53.31. SEE DWG C411.
(2) EXISTING 36" LAVWMA PIPELINE.
(3) LIMITS OF WORK AREA.
(4) EXISTING CONCRETE BLOCK MASONRY SOUND WALL. PROTECT IN PLACE.
(5) BART SUBSTATION. COORDINATE WITH BART REPRESENTATIVES TO MAINTAIN ACCESS TO FACILITIES.
(6) PROTECT EXISTING TREES.
(7) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED.
(8) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES. COORDINATE POLE AND UTILITY CONFLICT WITH PG&E.
(9) COORDINATE WITH ADJACENT LAND OWNER TO MAINTAIN ACCESS TO DRIVEWAY.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #22 STA 136+53.31 – PHOTO 2
NOT TO SCALE



ACCESS PIT #22 STA 136+53.31 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #22 STA 136+53.31

SCALE: AS SHOWN
DRAWING NUMBER: L22
SHEET NUMBER: 79

NOTE:

* PICTURES ARE AT 144+00 ±.
ACTUAL PIT MOVED TO 142 + 75.

LEGEND

(1) DRAWING NOTE NUMBER

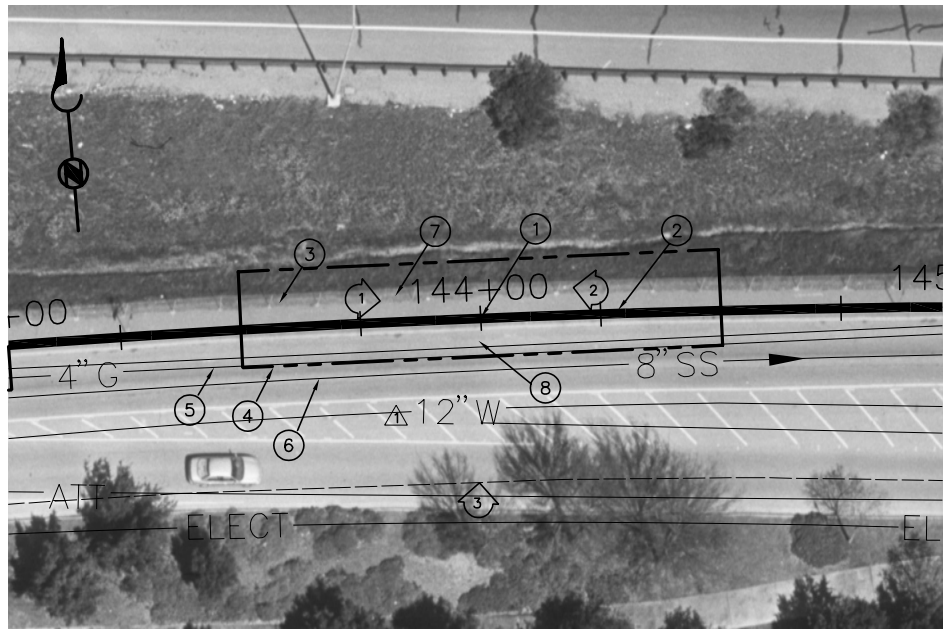
(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

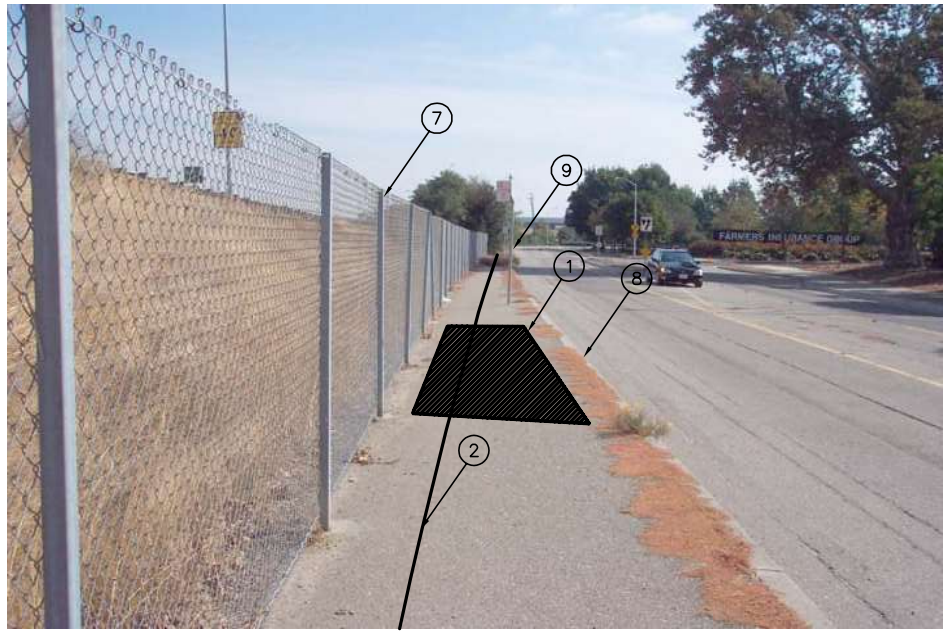
(1) ACCESS PIT #23 STA 142+75. SEE DWG C412.
(2) EXISTING 36" LAVWMA PIPELINE.
(3) LIMITS OF WORK AREA.
(4) EXISTING TCI CABLE. PROTECT IN PLACE.
(5) EXISTING 4" GAS LINE. PROTECT IN PLACE.
(6) EXISTING 8" SS. PROTECT IN PLACE.
(7) PROTECT EXISTING FENCE IN PLACE. CONTRACTOR SHALL NOT ENCROACH ON CALTRANS PROPERTY LINE OR SHALL PROCURE TEMPORARY ENCROACHMENT PERMIT AT HIS OPTION.
(8) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.
(9) PROTECT EXISTING SIGN IN PLACE.
(10) SEE TRAFFIC CONTROL PLAN FOR THIS LOCATION.

GENERAL NOTES:

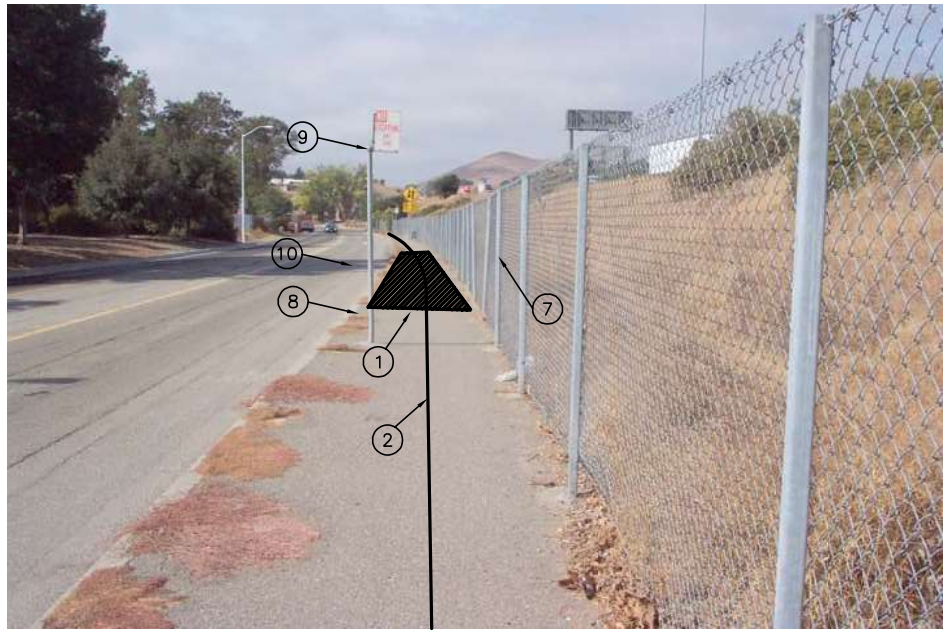
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



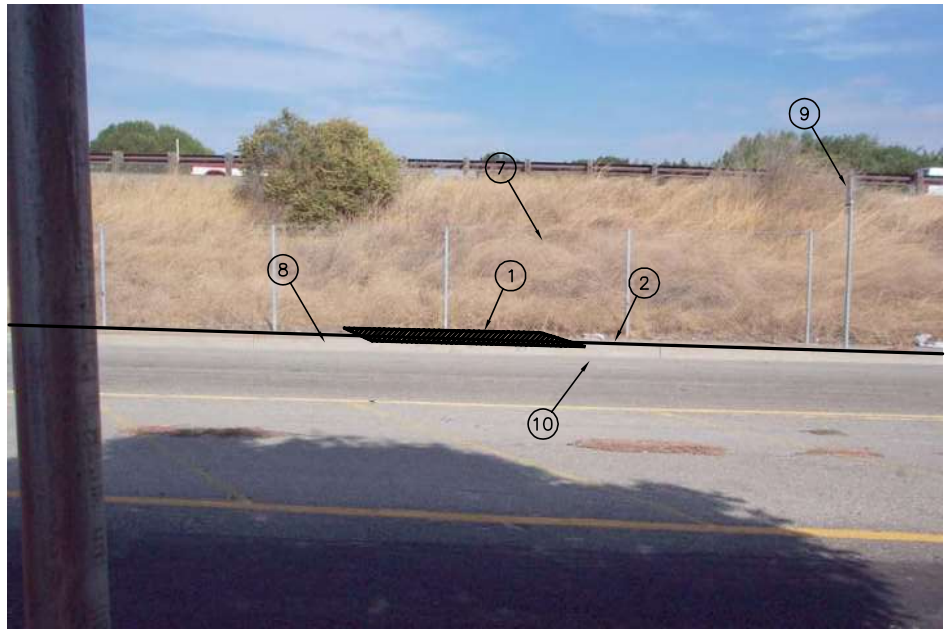
ACCESS PIT #23 STA 144+00* – PLAN
SCALE: 1" = 20'



ACCESS PIT #23 STA 144+00* – PHOTO 1
NOT TO SCALE



ACCESS PIT #23 STA 144+00* – PHOTO 2
NOT TO SCALE



ACCESS PIT #23 STA 144+00* – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

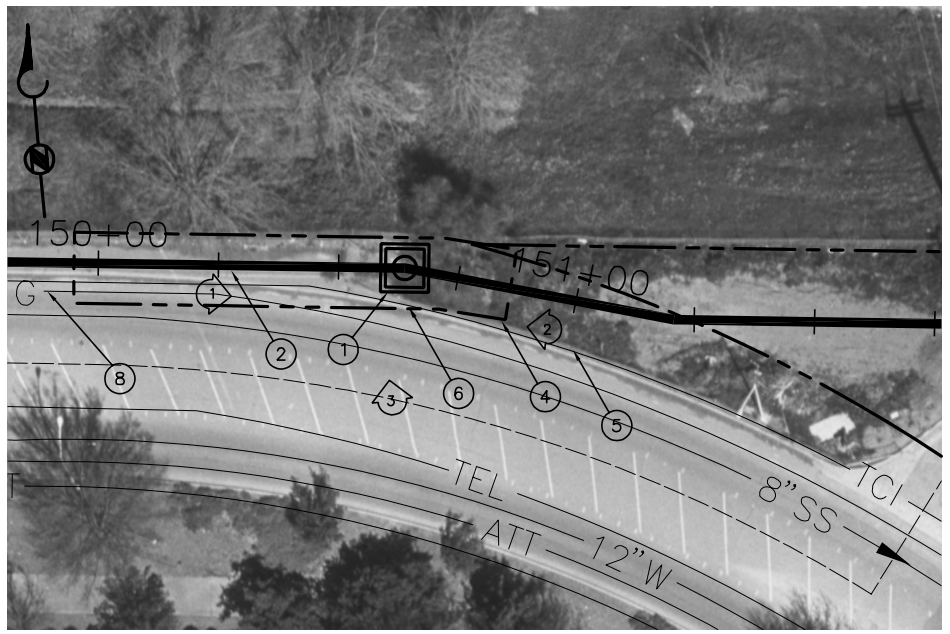
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

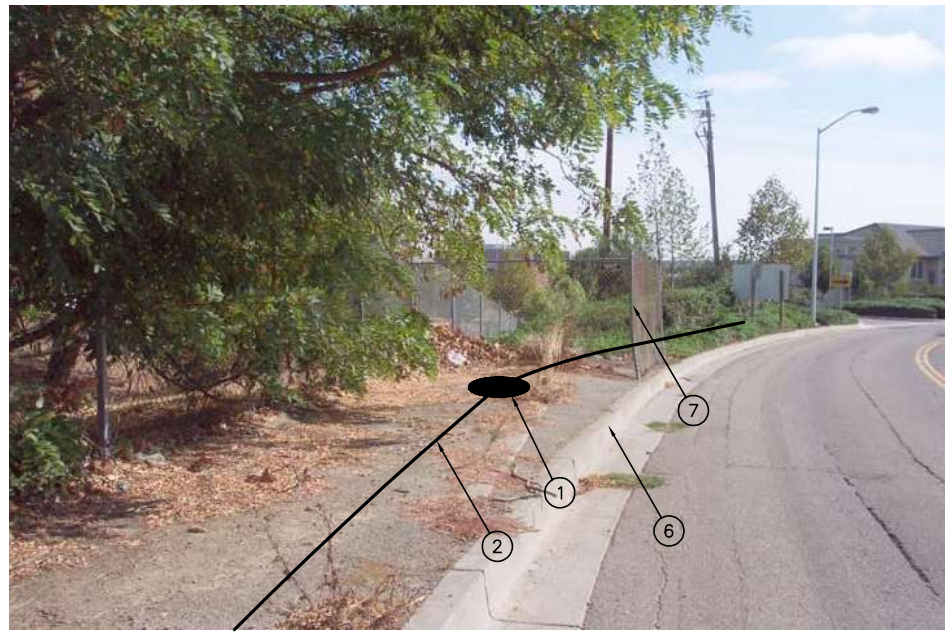
CONSTRUCTION LAYOUT
ACCESS PIT #23 STA 144+00

SCALE: AS SHOWN
DRAWING NUMBER: L23
SHEET NUMBER: 80

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 152.tif | 153.tif | 154.tif | C58.tif | lavwma.jpg
Filename: DC-L23 | Plot date: Jun 18, 2007-02:50:21pm | Plotted by: zburke | Xref
1=1 | PC | 1-03 | L23



ACCESS PIT #24 & MANWAY STA 150+63.74 – PLAN
SCALE: 1" = 20'



ACCESS PIT #24 & MANWAY STA 150+63.74 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) CONSTRUCT NEW ACCESS PIT #24, MANWAY STA 150+63.74. SEE DWG C412.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMIT OF WORK AREA.

(5) EXISTING TCI CABLE. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

(7) REMOVE AND REPLACE EXISTING FENCE AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE REMOVAL WITH OWNER.

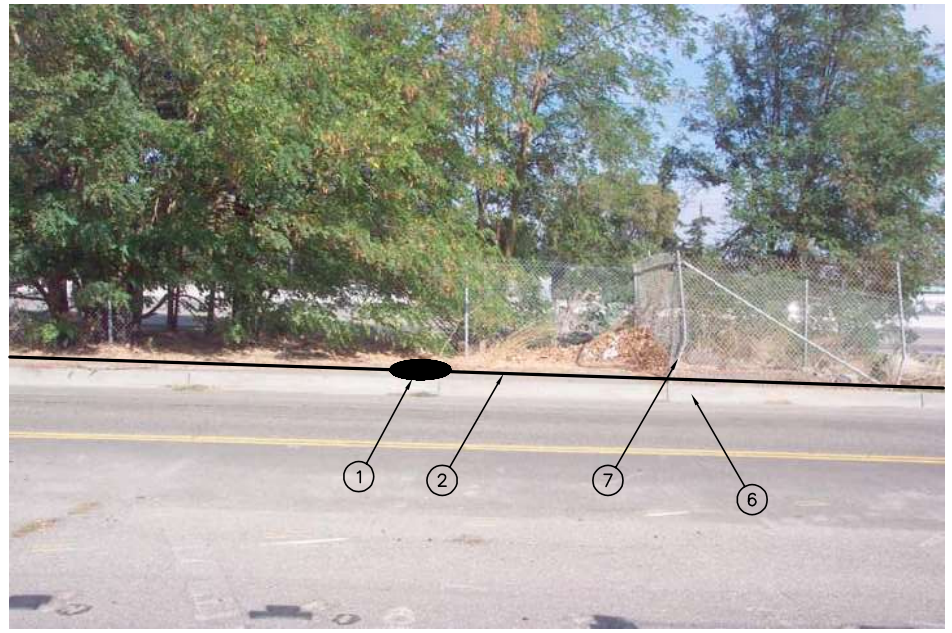
(8) EXISTING 4" G. PROTECT IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #24 & MANWAY STA 150+63.74 – PHOTO 2
NOT TO SCALE



ACCESS PIT # 24 & MANWAY STA 150+63.74 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

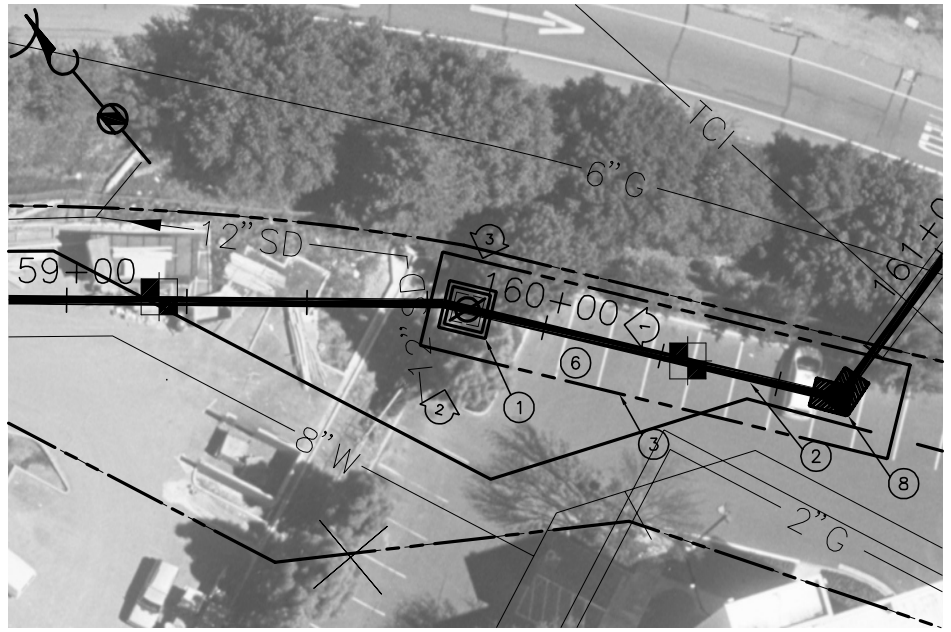
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #24 STA 150+63.74

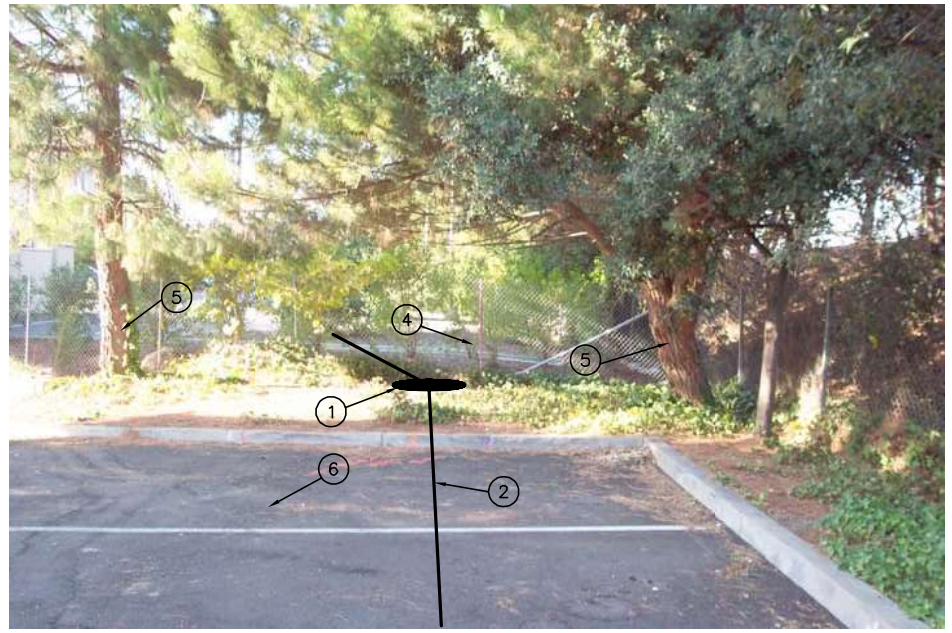
SCALE AS SHOWN
DRAWING NUMBER L24
SHEET NUMBER 81

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 149.tif | 150.tif | 151.tif | C58.tif | lavwma.jpg
Filename: DC-L24 Plot date: Jun 18, 2007-02:49:22pm Plotted by: zburke. Xref Filename:
1=1 PC 1-03 L24

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 257.tif | 259.tif | 260.tif | C59.tif | lavwma.jpg
Plotted by: zburke. Xref Filename:
Plot date: Jun 18, 2007-02:48:26pm
Filename: DC-L25
1=1 PC
1-03
L25



ACCESS PIT #25 & MANWAY STA 159+82 – PLAN
SCALE: 1" = 20'



ACCESS PIT #25 & MANWAY STA 159+82 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY ACCESS PIT #25, STA. 159+82. SEE DWG C413.
(2) EXISTING 36" LAVWMA PIPELINE.
(3) LIMITS OF WORK AREA.
(4) REMOVE AND REPLACE EXISTING FENCE AS REQUIRED TO CONSTRUCT MANWAY. COORDINATE FENCE WITH REMOVAL WITH OWNER.
(5) PROTECT EXISTING TREES.
(6) SLURRY SEAL ANY PAVEMENT DAMAGED DURING CONSTRUCTION.
(7) PROTECT EXISTING PACIFIC BELL VAULT IN PLACE.
(8) ACCESS PIT #26

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #25 & MANWAY STA 159+82 – PHOTO 2
NOT TO SCALE



ACCESS PIT #25 & MANWAY STA 159+82 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #25 STA 159+82

SCALE: AS SHOWN
DRAWING NUMBER: L25
SHEET NUMBER: 82

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #26 STA 160+63. SEE DWG C414

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING UTILITY POLES AND OVERHEAD LINES DURING MANWAY CONSTRUCTION. COORDINATE POLE AND POWER LINE PROTECTION WITH PG&E.

(4) LIMITS OF WORK AREA.

(5) EXISTING ATT DUCT AREA. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT MANWAY. SLURRY SEAL PAVEMENT DAMAGED DURING CONSTRUCTION.

(7) PROTECT EXISTING FENCE IN PLACE. DO NOT ENCROACH ON CALTRANS PROPERTY.

(8) EXISTING 36" LAVWMA LINE INSTALLED 2001–2002. POTHOLE PRIOR TO EXCAVATION AND PROTECT IN PLACE.

(9) REMOVE AND REPLACE EXISTING CURB, GUTTER, AND SIDEWALK AS REQUIRED.

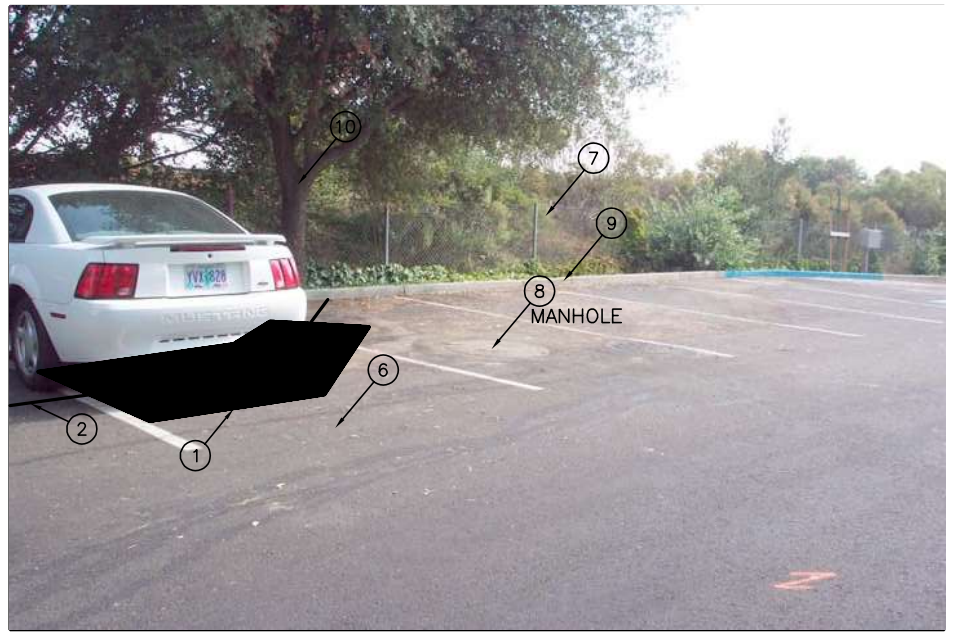
(10) PROTECT TREES IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #26 STA 160+63 – PLAN
SCALE: 1" = 20'

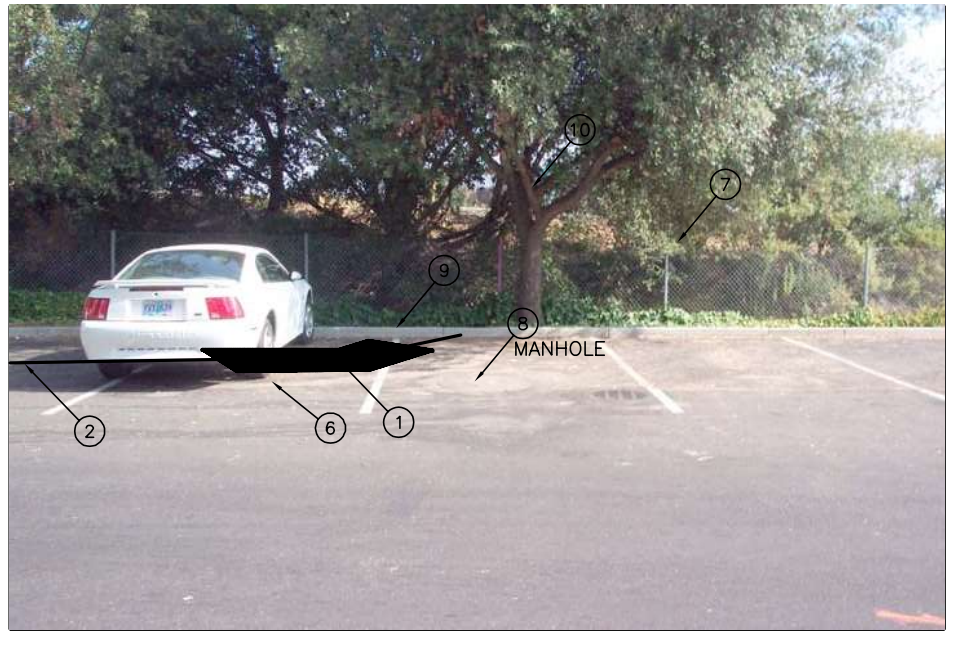


ACCESS PIT #26 STA 160+63 – PHOTO 1
NOT TO SCALE

380



ACCESS PIT #26 STA 160+63 – PHOTO 2
NOT TO SCALE



ACCESS PIT #26 STA 160+63 – PHOTO 3
NOT TO SCALE

370
360
350
340
330
320
310
300

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER	DATE: 05/NOV/01	
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL	DATE: 05/NOV/02	
APPROVED:	DATE:	

BROWN AND CALDWELL

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE	22471
DRAWN	P. CHIN
DESIGNED	J. GLYNN
CHECKED	C. JOYCE
CHECKED	

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #26 STA 160+63

SCALE: AS SHOWN
DRAWING NUMBER: L26
SHEET NUMBER: 83

Plotted by: zburke. Xref Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: | 146.tif | 147.tif | 148.tif | C59.tif | lavwma.jpg
Plot date: Jun 18, 2007–02:47:44pm
Filename: DC–L26
1=1
PC
1–03
L26

NOTE:

* PICTURES ARE AT 163+32 ±.
ACTUAL PIT MOVED TO 164+65.

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) CONSTRUCT NEW MANWAY STA 164+65.* SEE DWG C414.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING TREES IN PLACE.

(4) LIMITS OF WORK AREA.

(5) CONSTRUCT PROTECTIVE BARRIER TO PROTECT BUILDING WINDOWS FROM DAMAGE AND TO MINIMIZE NOISE AND DISTURBANCE TO BUILDING OCCUPANTS.

(6) PROTECT EXISTING FENCE IN PLACE. CONTRACTOR SHALL NOT ENCROACH ON CALTRANS PROPERTY OR SHALL PROCURE TEMPORARY ENCROACHMENT PERMIT AT HIS OPTION.

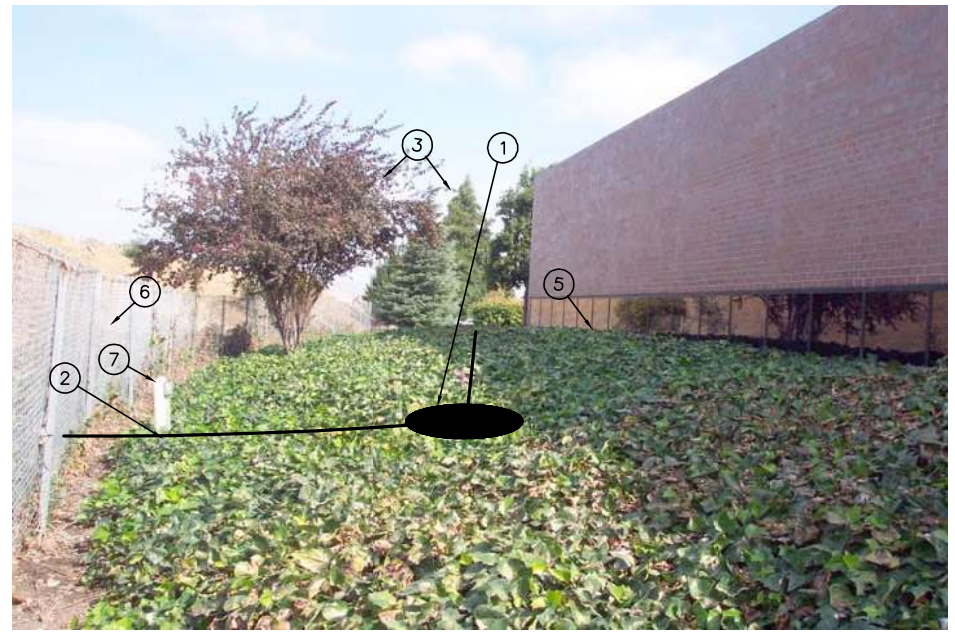
(7) CP TEST STATION. PROTECT IN PLACE.

GENERAL NOTES:

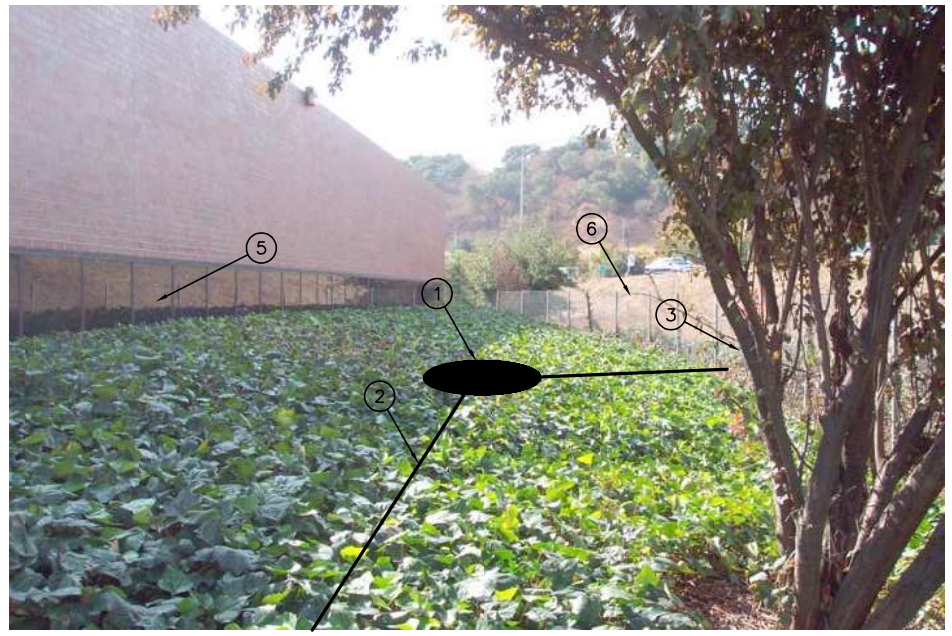
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



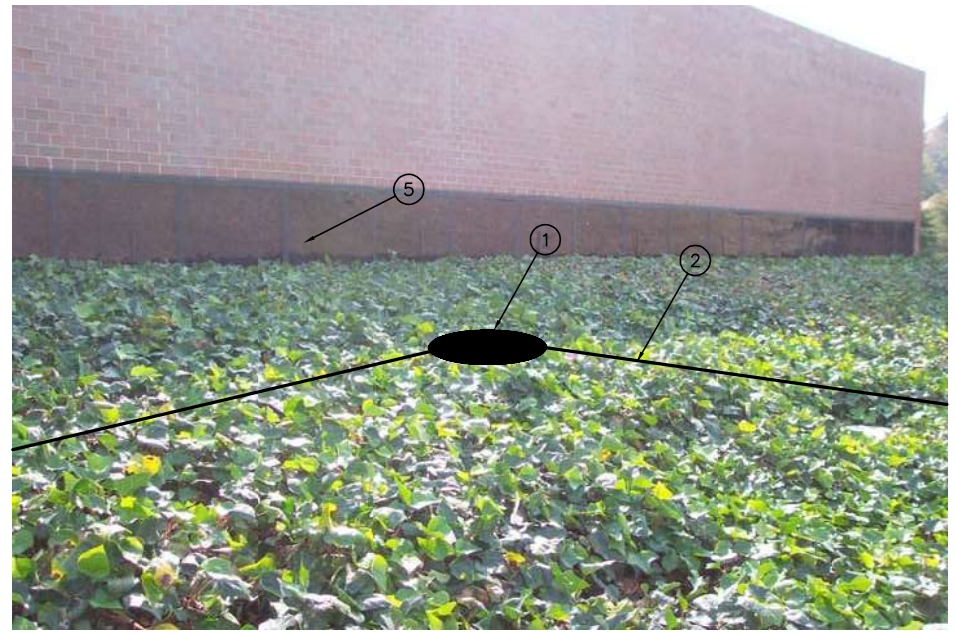
ACCESS PIT #27 & MANWAY STA 163+31.73* – PLAN
PIT #27 SCALE: 1" = 20'



ACCESS PIT #27 & MANWAY STA 163+31.73* – PHOTO 1
NOT TO SCALE



ACCESS PIT #27 & MANWAY STA 163+31.73* – PHOTO 2
NOT TO SCALE



ACCESS PIT #27 & MANWAY STA 163+31.73* – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #27 STA 163+31.73

SCALE: AS SHOWN
DRAWING NUMBER: L27
SHEET NUMBER: 84

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 143.tif | 144.tif | 145.tif | C59.tif | lavwma.jpg
Filename: DC-L27 | 1=1 | PC | 1-03 | L27
Plot date: Jun 18, 2007-02:46:37pm
Plotted by: zburke
Xref Filename:

lavwma.j | DSC00067.JPG | DSC00066.JPG | DSC00065.JPG | C61.tif | Image Filename: | x-proper | x-exutil | X-SITE4 | X-BORDER | Xref Filename: | Plotted by: zburke. 2007-02:45:54pm | Plot date: Jun 18, 2007 | Filename: DC-L28 | 1=1 | PC | 1-03 | L28



ACCESS PIT #28 STA 170+00 – PLAN
SCALE: 1" = 20'



ACCESS PIT #28 STA170+00 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #28 STA 170+00. SEE DWG C414.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING TREES IN PLACE. SHIFT LOCATION OF ACCESS PIT AS NECESSARY TO AVOID DAMAGE TO TREES. REMOVE AND REPLACEMENT OF SMALL DIAMETER MITIGATION TREES (1–2" TRUNK DIAMETER) IS ACCEPTABLE. CONTACT CITY OF PLEASANTON LANDSCAPING FOR FINAL APPROVAL OF MITIGATION TREES BEFORE PLANTING.

(4) LIMITS OF WORK AREA.

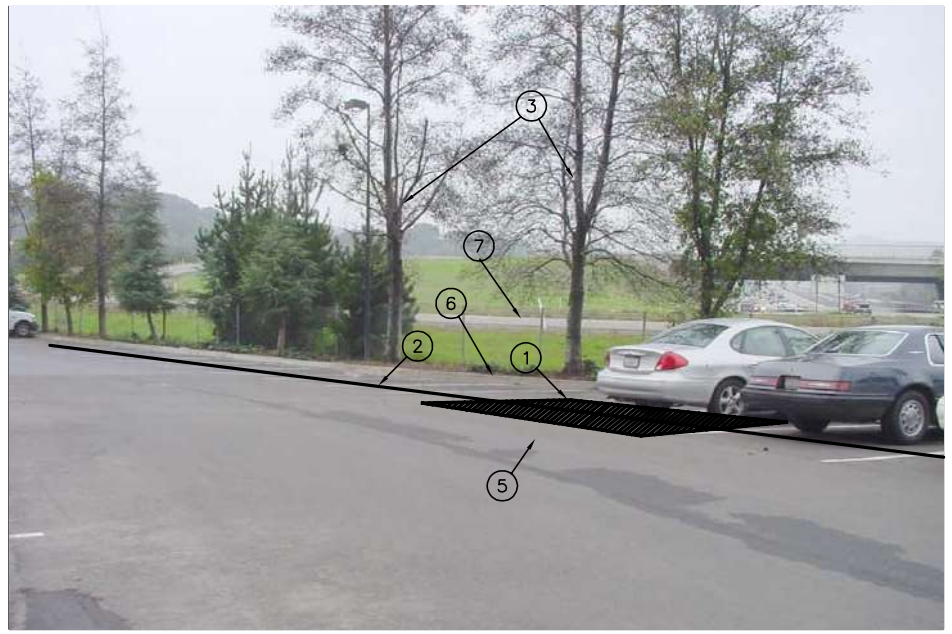
(5) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED. SLURRY SEAL PAVEMENT DAMAGED DURING CONSTRUCTION.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

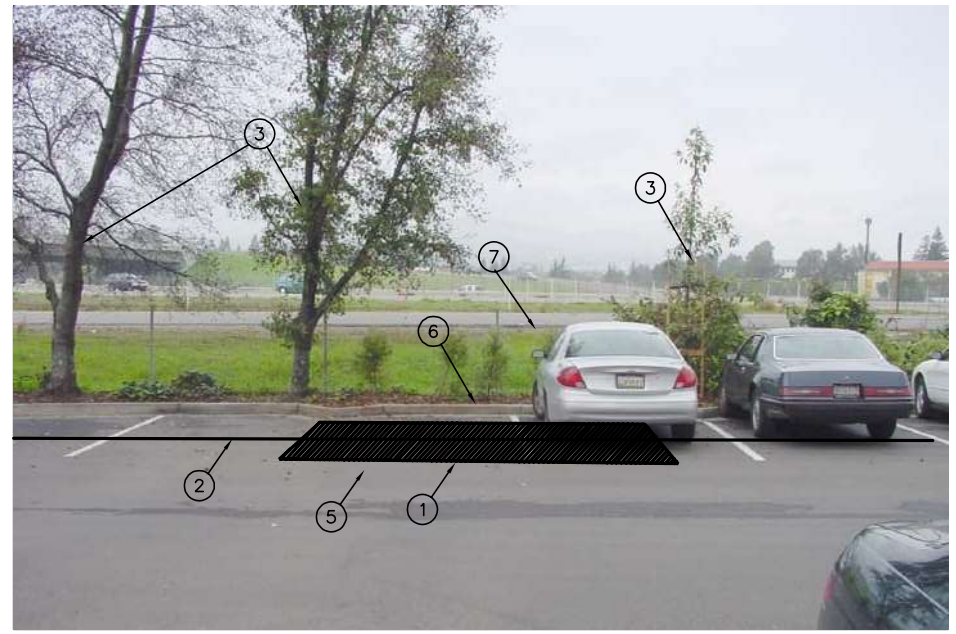
(7) PROTECT EXISTING FENCE IN PLACE. DO NOT ENCROACH ON CALTRANS PROPERTY.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #28 STA 170+00 – PHOTO 2
NOT TO SCALE



ACCESS PIT #28 STA 170+00 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #28 STA 170+00

SCALE: AS SHOWN
DRAWING NUMBER: L28
SHEET NUMBER: 85

Xref Filename: lavwma.jpg | Plotted by: zburke | Plot date: Jun 18, 2007–02:45:21pm | Image Filename: 138.tif | 139.tif | 140.tif | C61.tif | x–proper | x–exutil | X–SITE4 | X–BORDER | Filename: DC–L29 | 1=1 | PC | 1–03 | L29

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) CONSTRUCT NEW MANWAY STA 177+00. SEE DWG C415.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING TREES AND BUSHES.

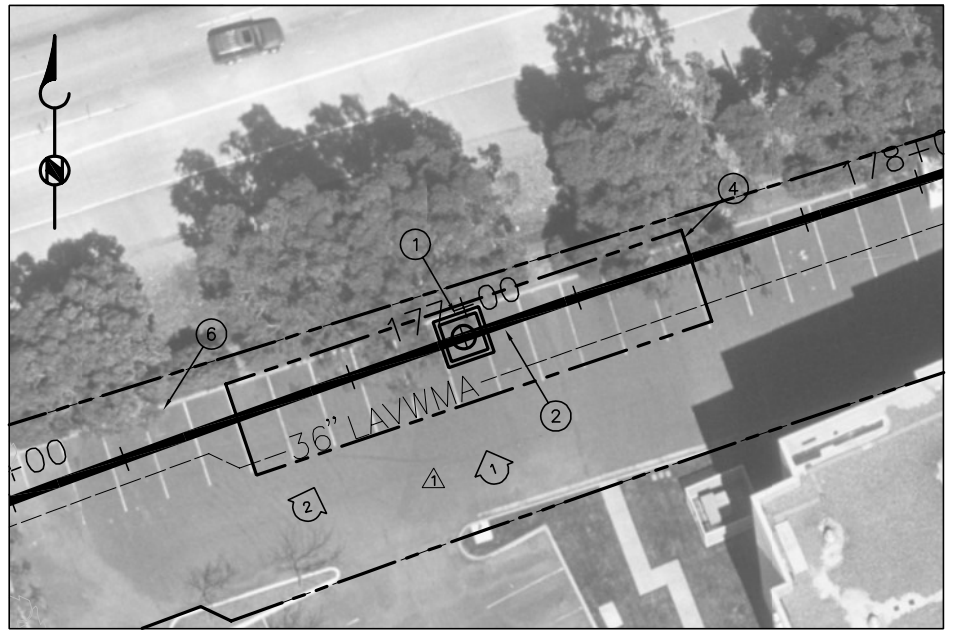
(4) LIMITS OF WORK AREA.

(5) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED. SLURRY SEAL PAVEMENT DAMAGED DURING CONSTRUCTION.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

GENERAL NOTES:

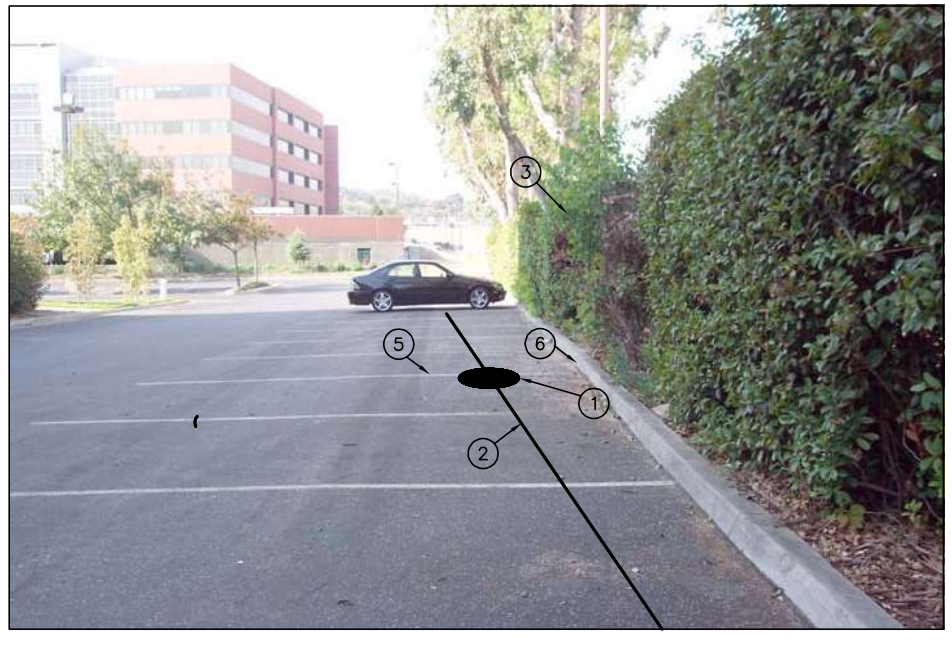
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



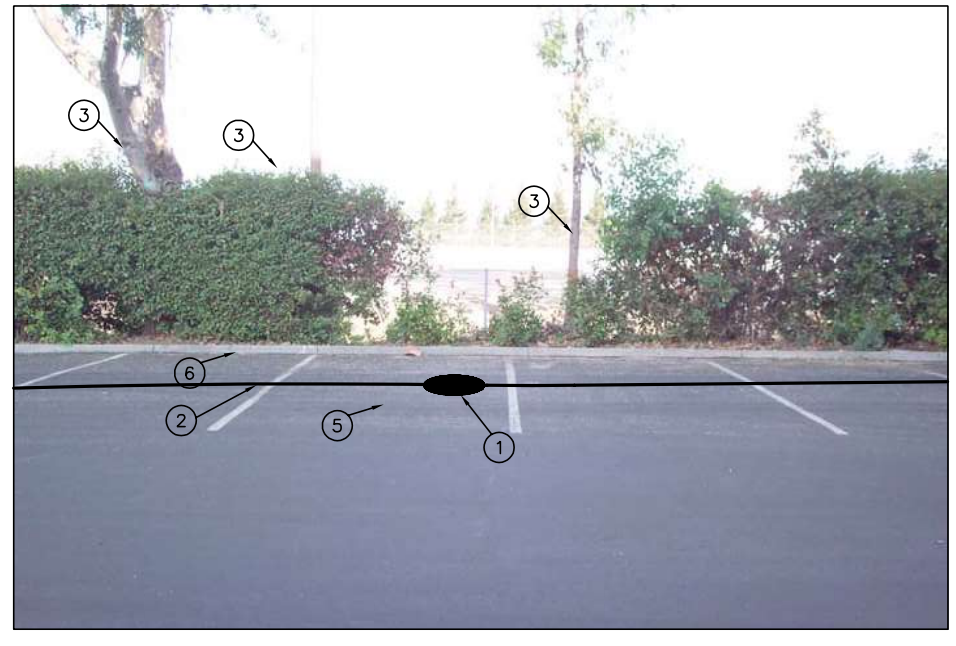
ACCESS PIT #29 & MANWAY STA 177+00 – PLAN
SCALE: 1" = 20'



ACCESS PIT #29 & MANWAY STA 177+00 – PHOTO 1
NOT TO SCALE



ACCESS PIT #29 & MANWAY STA 177+00 – PHOTO 2
NOT TO SCALE



ACCESS PIT# 29 & MANWAY STA 177+00 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

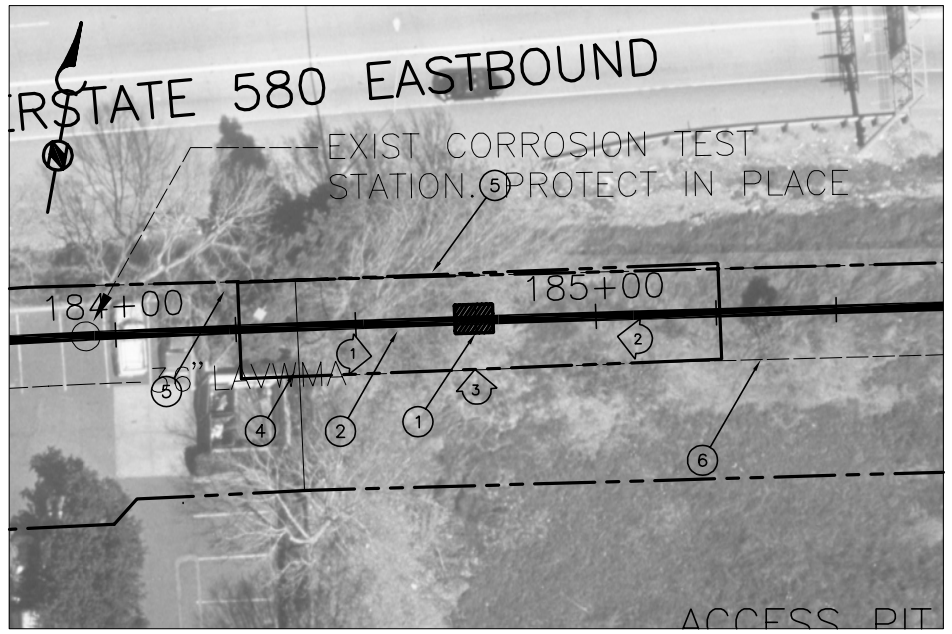
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

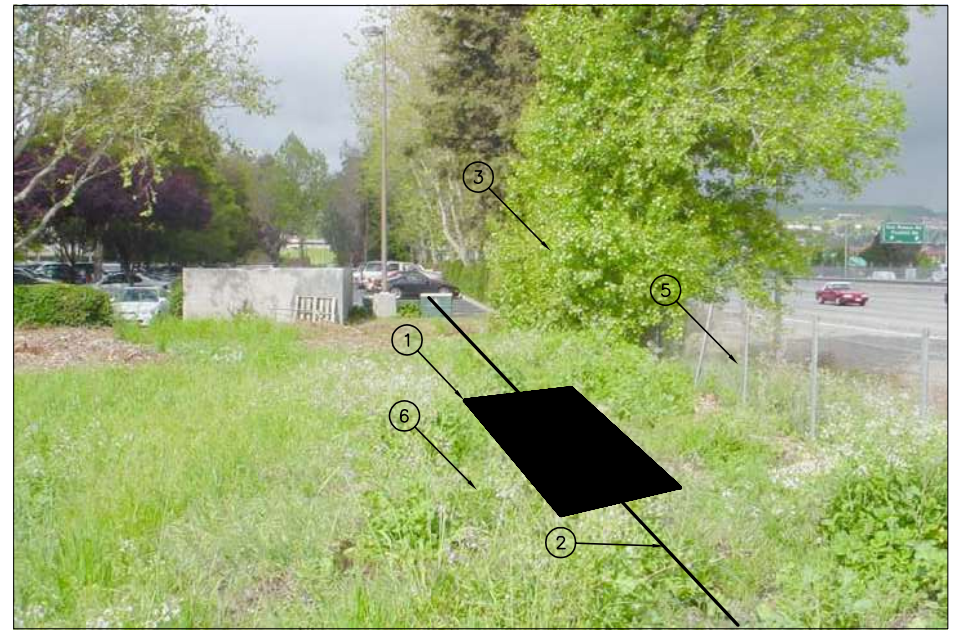
CONSTRUCTION LAYOUT
ACCESS PIT #29 STA 177+00

SCALE: AS SHOWN
DRAWING NUMBER: L29
SHEET NUMBER: 86

NewPit30_photo3.jpg | NewPit30_photo2.jpg | NewPit30_photo1.jpg | C62.tif | Image Filename: | x-proper | x-exutil | X-SITE4 | X-BORDER | Plotted by: zburke. Xref Filename: | Plot date: Jun 18, 2007-02:44:53pm | Filename: DC-L30 | 1=1 | PC | 1-03



ACCESS PIT #30 STA 184+75 – PLAN
SCALE: 1" = 20'



ACCESS PIT #30 STA 184+75 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) CONSTRUCT ACCESS PIT #30 STA 184+75. SEE DWG C414.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING TREES AND SHRUBS.

(4) LIMITS OF WORK AREA.

(5) PROTECT EXISTING FENCE IN PLACE. DO NOT ENCROACH ON CALTRANS PROPERTY.

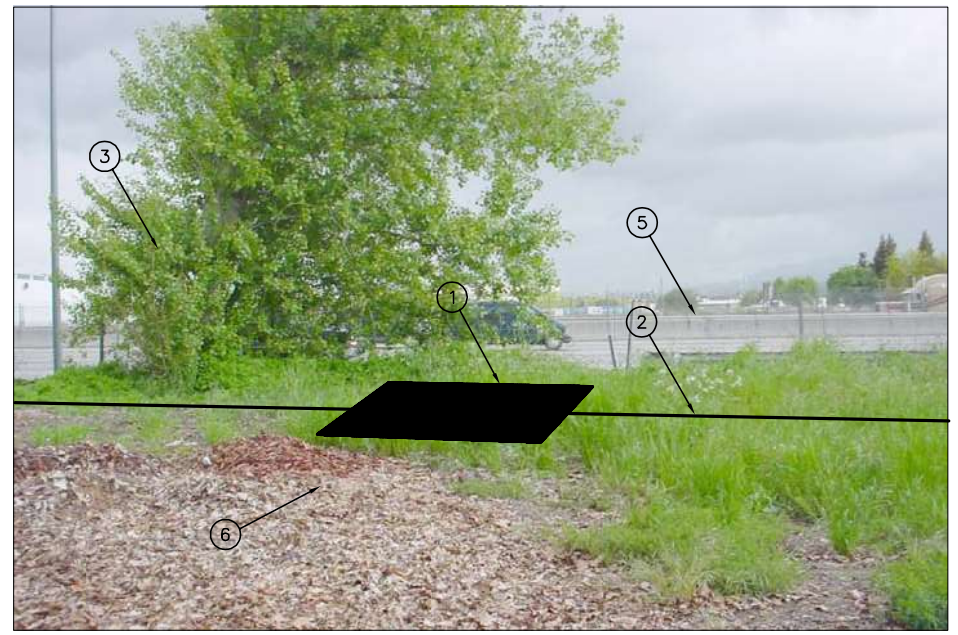
(6) EXIST 36" LAVWMA PIPELINE INSTALLED 2001–2002. POTHOLE BEFORE BEGINNING EXCAVATION AND PROTECT IN PLACE.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #30 STA 184+75 – PHOTO 2
NOT TO SCALE



ACCESS PIT #30 STA 184+75 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

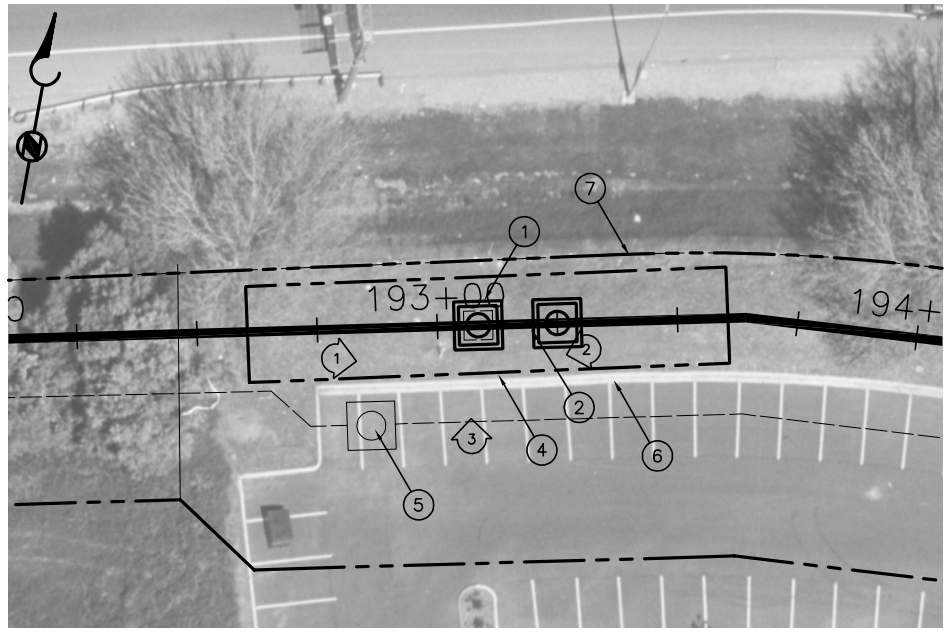
EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT

CIVIL

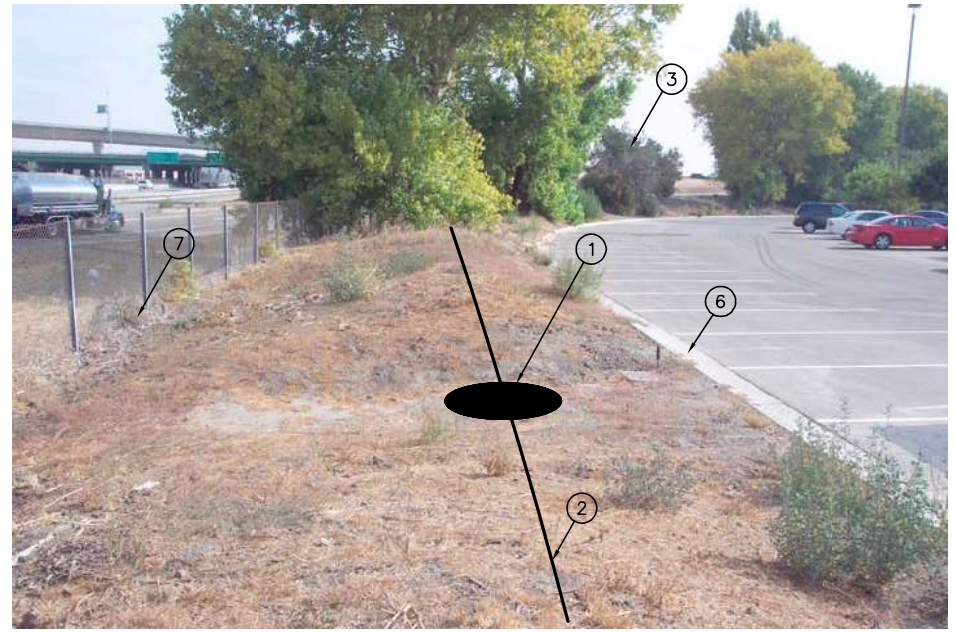
CONSTRUCTION LAYOUT

SCALE AS SHOWN
DRAWING NUMBER L30
SHEET NUMBER

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 135.tif | 136.tif | 137.tif | C62.tif | lavwma.jpg
Filename: DC-L31 | Plot date: Jun 18, 2007-02:44:03pm | Plotted by: zburke | Xref Filename:
1=1 | pc
1-03
L31



ACCES PIT #31 & MANWAY STA 193+08.53 – PLAN
SCALE: 1" = 20'



ACCESS POIT #31 & MANWAY STA 193+08.53 – PHOTO 1
NOT TO SCALE

380

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

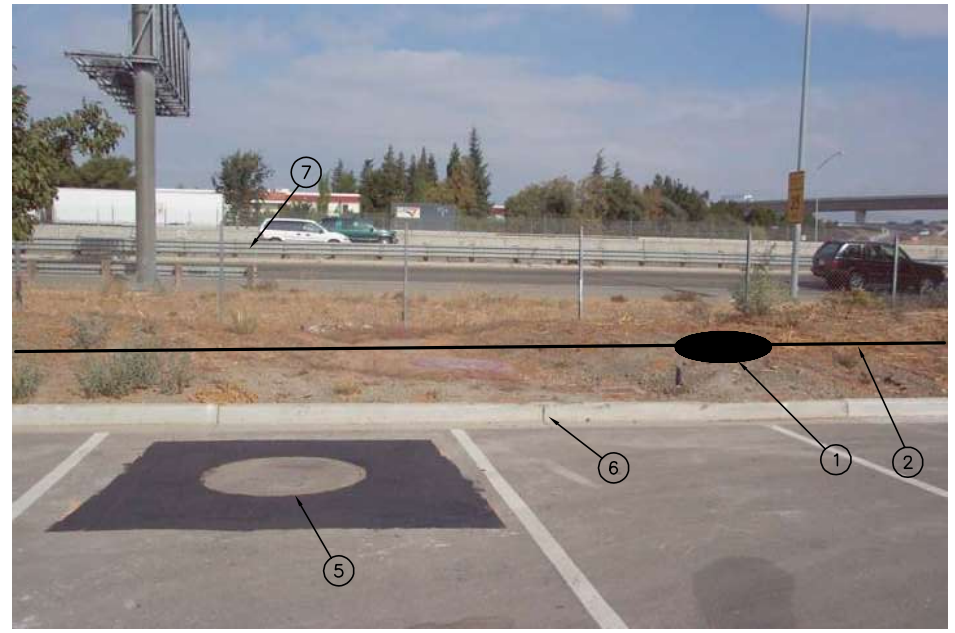
(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY ACCESS PIT #31, STA 193+08.53. SEE DWG C416.
(2) EXISTING 36" LAVWMA PIPELINE.
(3) PROTECT EXISTING TREES.
(4) LIMITS OF WORK AREA.
(5) EXISTING 36" LAVWMA PIPELINE INSTALLED 2001–2002. POTHOLE BEFORE BEGINNING EXCAVATION AND PROTECT IN PLACE.
(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.
(7) PROTECT EXISTING FENCE IN PLACE. DO NOT ENCROACH ON CALTRANS PROPERTY.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #31 & MANWAY STA 193+08.53 – PHOTO 2
NOT TO SCALE



ACCESS PIT # 31 &MANWAY STA 193+08.53 – PHOTO 3
NOT TO SCALE

370
360
350
340
330
320
310
300

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

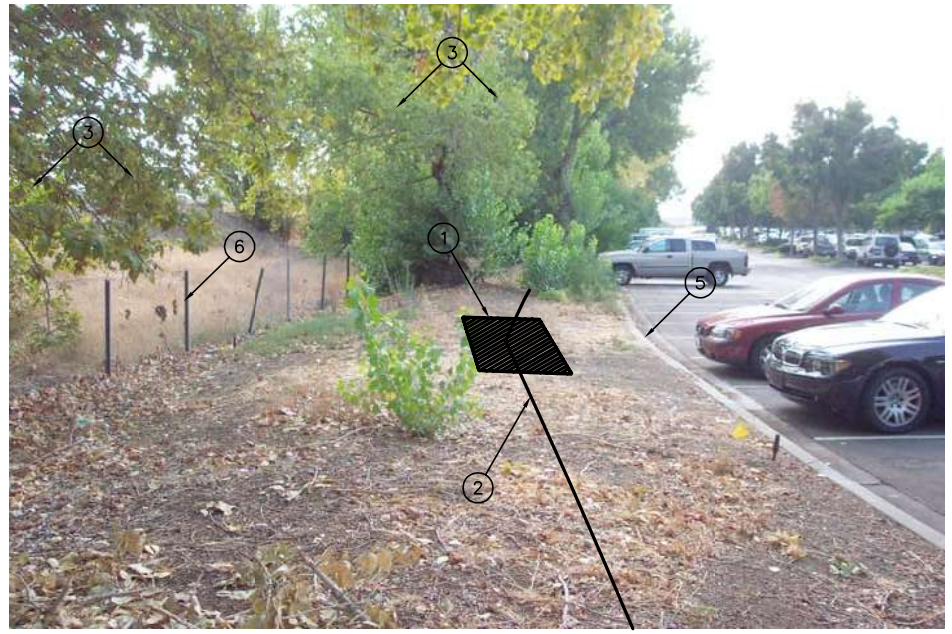
CONSTRUCTION LAYOUT
ACCESS PIT #31 STA 193+08.53

SCALE: AS SHOWN
DRAWING NUMBER: L31
SHEET NUMBER: 88

Filename: X-BORDER | X-SITE4 | x-exutil | x-proper | Image Filename: 132.tif | 133.tif | 134.tif | C63.tif | lavwma.jpg
Filename: DC-L32 | 1=1 | PC | 1-03 | L32
Plotted by: zburke Xref
Plot date: Jun 18, 2007-02:43:11pm



ACCESS PIT #32 STA 201+42.36 – PLAN
SCALE: 1" = 20'



ACCESS PIT #32 STA 201+42.36 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #32 STA 201+42.36 SEE DWG C417.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) PROTECT EXISTING TREES.

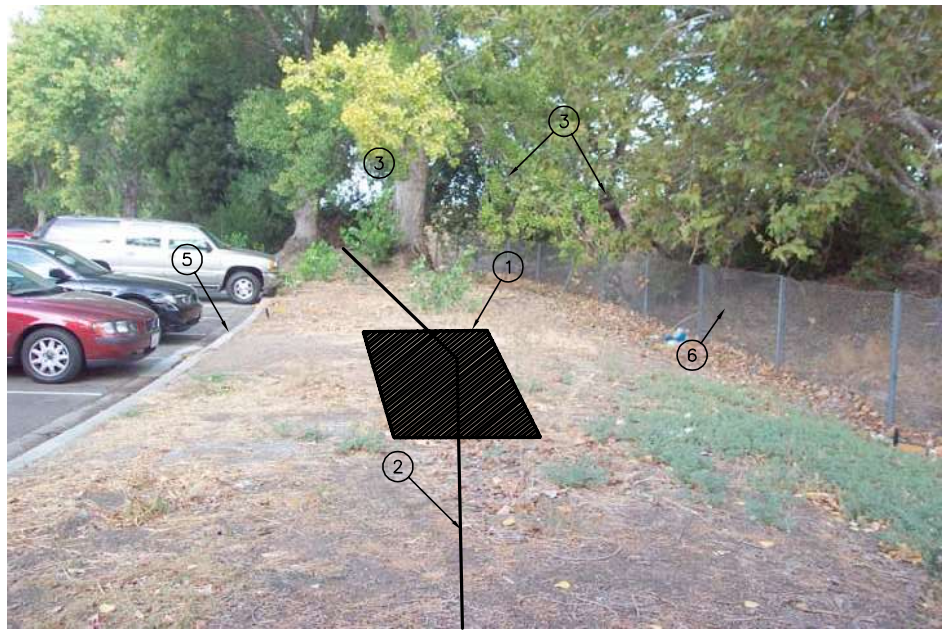
(4) LIMITS OF WORK AREA.

(5) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED.

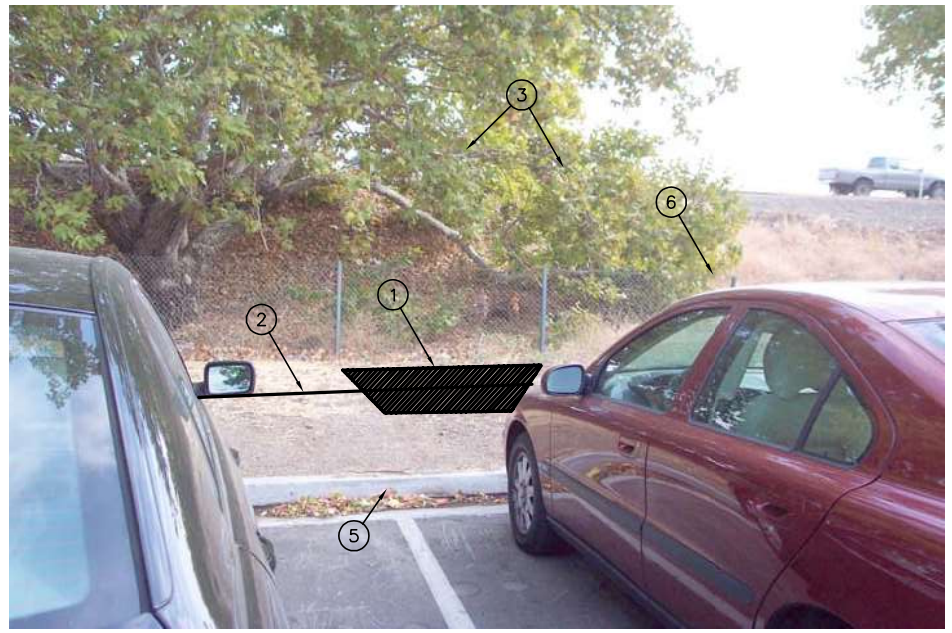
(6) PROTECT EXISTING FENCE IN PLACE. DO NOT ENCROACH ON CALTRANS PROPERTY.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #32 STA 201+42.36 – PHOTO 2
NOT TO SCALE



ACCESS PIT #32 STA 201+42.36 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

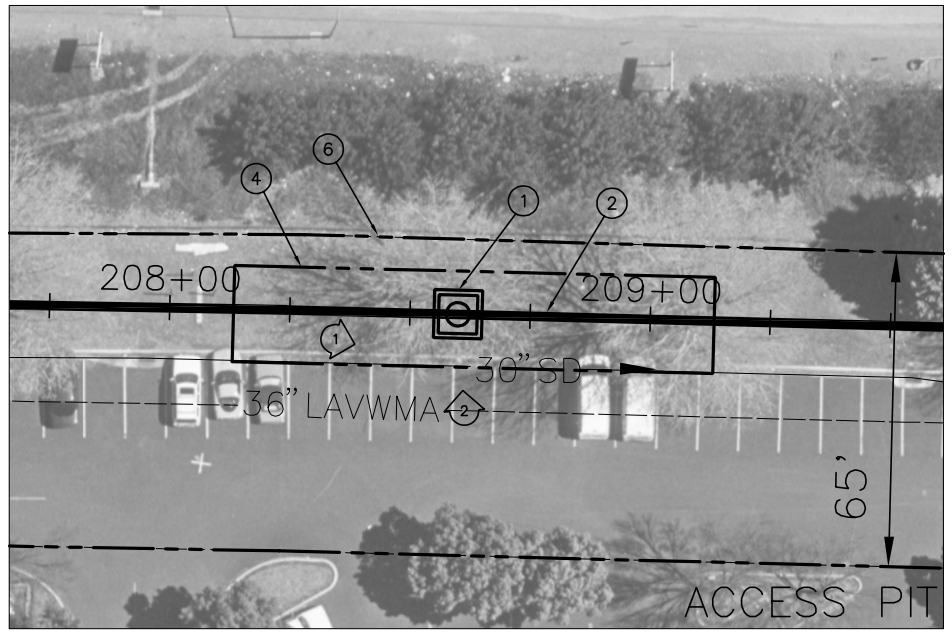
LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

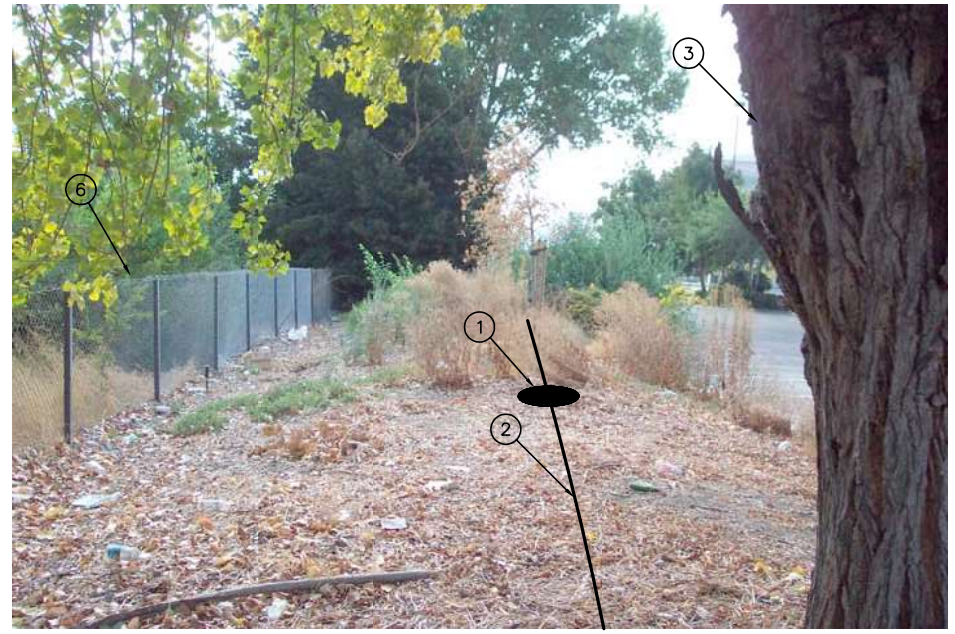
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #32 STA 201+42.36

SCALE: AS SHOWN
DRAWING NUMBER: L32
SHEET NUMBER: 89



ACCESS PIT #33 & MANWAY STA 208+60 – PLAN
SCALE: 1" = 20'



ACCESS PIT #33 & MANWAY STA 208+60 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) CONSTRUCT NEW MANWAY ACCESS PIT #33, STA 208+60. SEE DWG C418.

(2) EXISTING 36" LAVWMA PIPELINE.

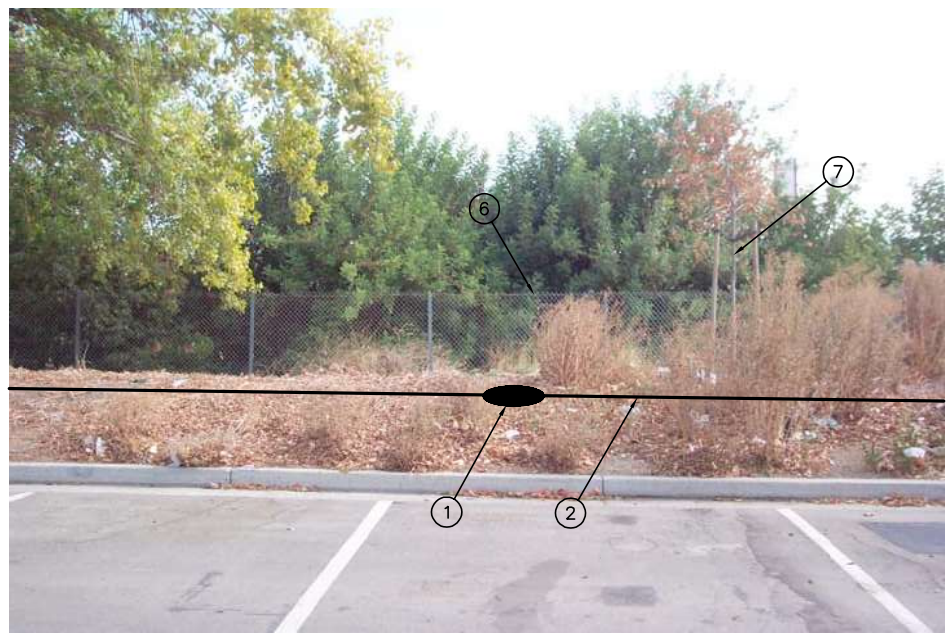
(3) PROTECT EXISTING TREES EXCEPT AS NOTED IN ITEM (7).

(4) LIMITS OF WORK AREA.

(5) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

(6) PROTECT EXISTING FENCE IN PLACE. DO NOT ENCROACH ON CALTRANS PROPERTY.

(7) EXISTING 1–INCH DIAMETER TREES ORIGINALLY PLANTED AS MITIGATION FOR THE EXPORT PROJECT 2000–02. REMOVE MITIGATION TREES AS NECESSARY FOR EXCAVATION OF ACCESS PIT AND MANWAY AND REPLACE IN KIND. CONTACT CITY OF PLEASANTON LANDSCAPING FOR FINAL APPROVAL OF MITIGATION TREES BEFORE PLANTING.



ACCESS PIT #33 & MANWAY STA 208+60 – PHOTO 2
NOT TO SCALE

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #33 STA 208+60

SCALE: AS SHOWN
DRAWING NUMBER: L33
SHEET NUMBER: 90

Filename: DC–L33 | 1=1 | 10–23–02 | PC | L33 | X–BORDER | X–SITE4 | x–exutil | x–proper | Image Filename: 130.tif | 131.tif | C64.tif | lavwma.jpg | Plotted by: zburke Xref Filename: | Plot date: Jun 18, 2007–02:42:08pm

* PICTURES ARE AT STA. 216+09 AND ACTUAL PIT DUG BETWEEN FENCE AND CURB AT STA. 216+17±

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ACCESS PIT #34 STA 216+176. SEE DWG C419.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) EXISTING CATHODIC CASING ANODE AND TEST STATION. PROTECT IN PLACE.

(4) LIMITS OF WORK AREA.

(5) EXISTING 16" WATER. PROTECT IN PLACE.

(6) REMOVE AND REPLACE EXISTING CURB, GUTTER AND SIDEWALK AS AS REQUIRED.

(7) PROTECT EXISTING FENCE IN PLACE. DO NOT ENCROACH ON CALTRANS PROPERTY.

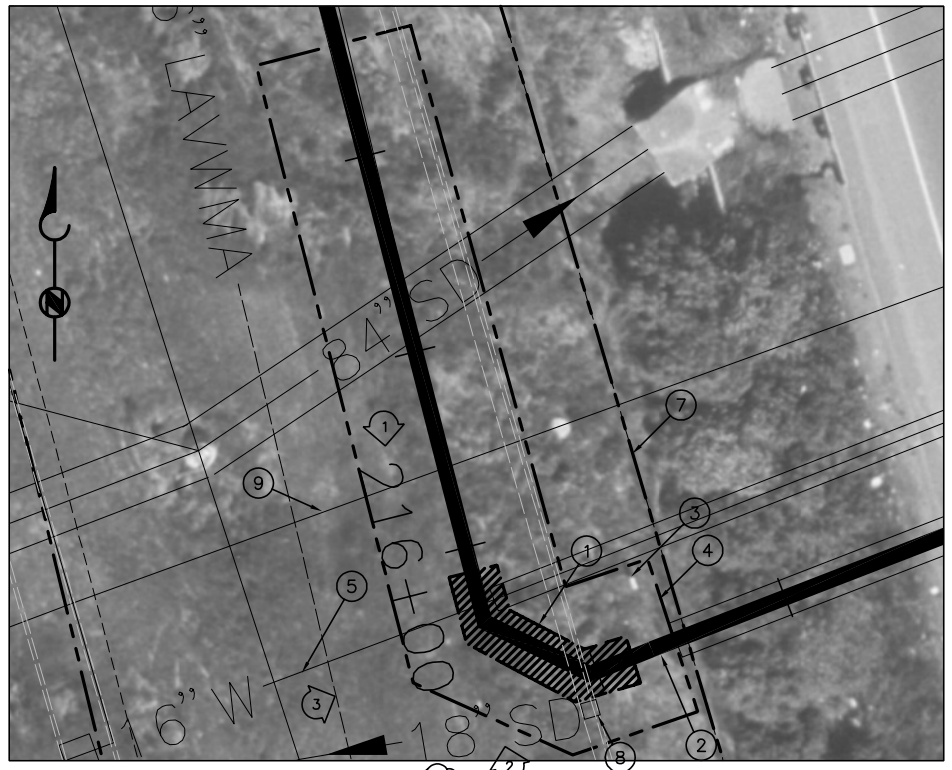
(8) EXISTING 18" SD AND CATCH BASIN. PROTECT IN PLACE.

(9) EXISTING TELEPHONE LINE. PROTECT IN PLACE.

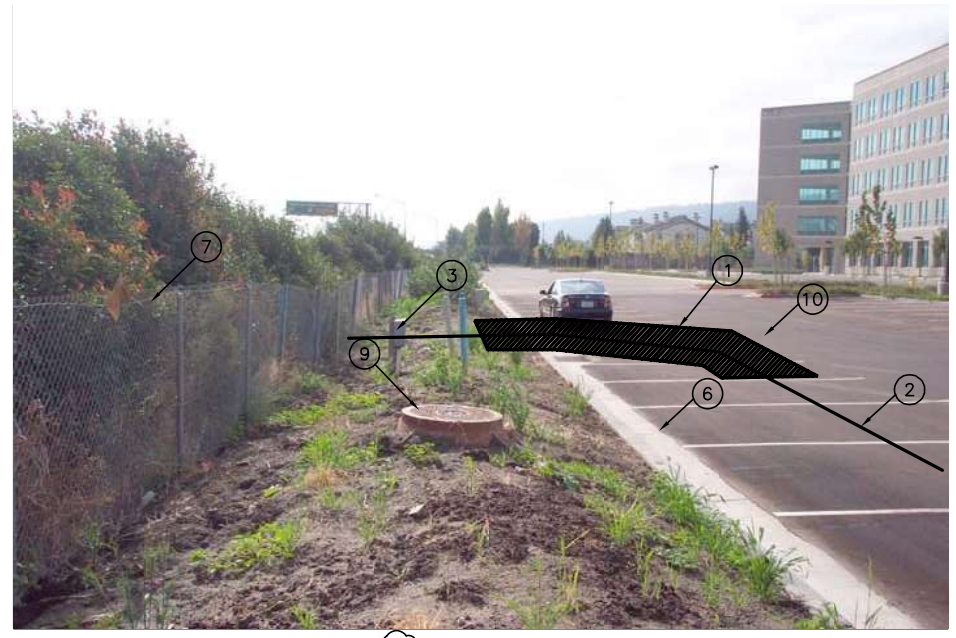
(10) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED.

GENERAL NOTES:

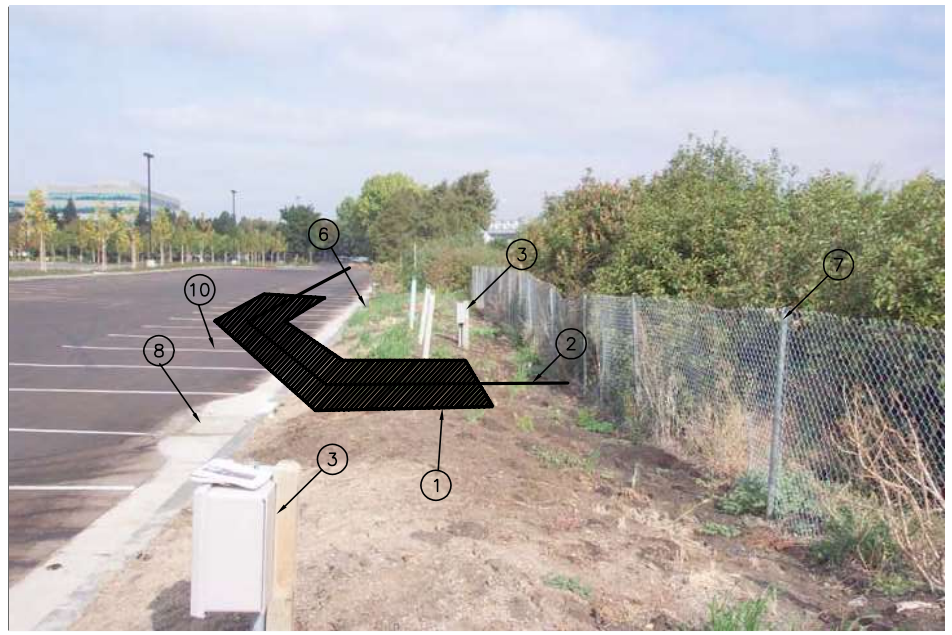
1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.
8. CASING ANODE BED LOCATED IN VICINITY OF ACCESS PIT #34. SEE DETAIL C/D9. CONTRACTOR SHALL PROTECT ANODES IN PLACE.
9. ABANDONED 3-INCH GALVANIZED STEEL PACIFIC BELL CONDUIT FOUND IN VICINITY OF ACCESS PIT #34 DURING CONSTRUCTION OF EXISTING LAVWMA PIPELINE INSTALLED 2001-2002.



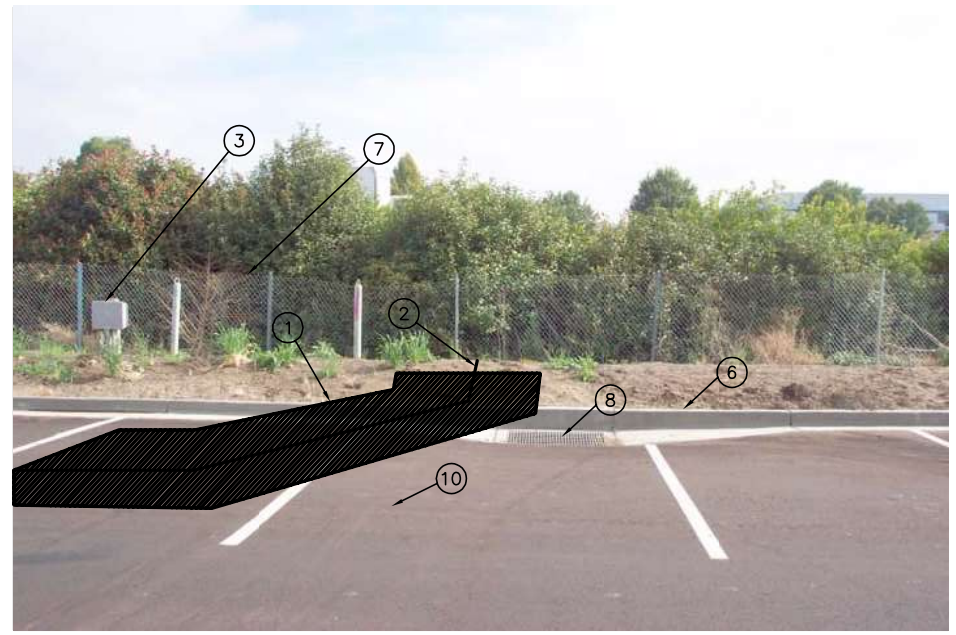
ACCESS PIT #34 STA 216+08.76 – PLAN
SCALE: 1" = 20'



ACCESS PIT #34 STA 216+08.76 – PHOTO 1
NOT TO SCALE



ACCESS PIT #34 STA 216+08.76 – PHOTO 2
NOT TO SCALE



ACCESS PIT #34 STA 216+08.76 – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ — DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

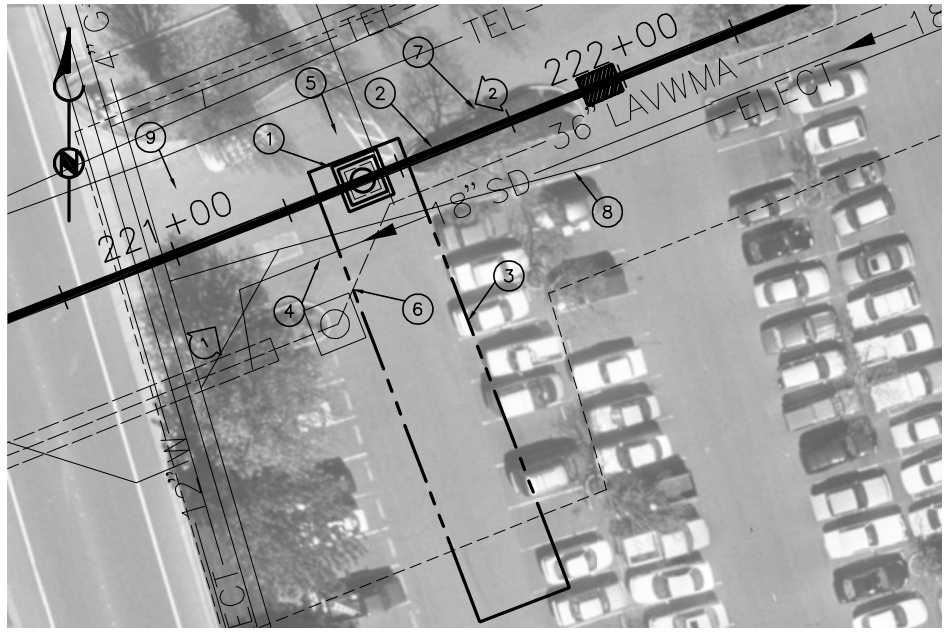
CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #34 STA 216+08.76

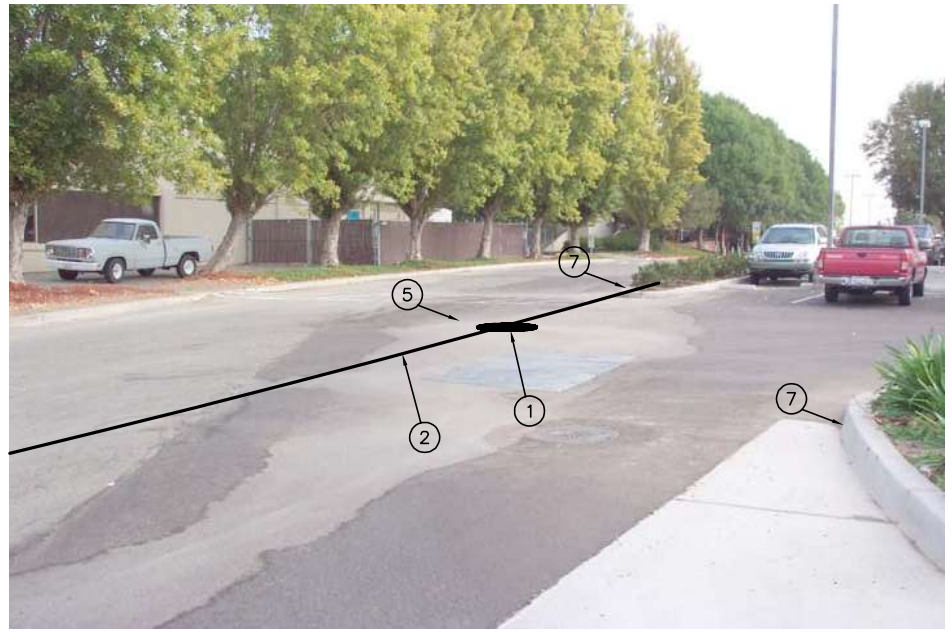
SCALE: AS SHOWN
DRAWING NUMBER: L34
SHEET NUMBER: 91

Filename: DC-L34 | Plot date: Jun 18, 2007-02:41:13pm | Plotted by: zburke | Xref Filename: | Image Filename: | X-BORDER | X-SITE4 | X-exutil | X-proper | 1=1 | PC | 1-03 | L34 | C65.tif | 129.tif | 128.tif | 127.tif | lavwma.jpg

EXISTING PIT AT 221+42 MODIFIED IN PLACE. ACCESS PIT FOR CML WAS AT STA 221+92.



ACCESS PIT #35 & MANWAY STA 221+42.18 – PLAN
SCALE: 1" = 20'



ACCESS PI #35 & MANWAY STA 221+42.18 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) REMOVE AND REPLACE EXISTING AIR VALVE MANWAY ACCESS PIT #35, STA 221+92. SEE DWG C419.

(2) EXISTING 36" LAVWMA PIPELINE.

(3) LIMITS OF WORK AREA.

(4) EXISTING 36" SD. POTHOLE BEFORE EXCAVATION OF MANWAY AND PROTECT IN PLACE.

(5) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT MANWAY.

(6) PARALLEL 36" LAVWMA PIPELINE. POTHOLE BEFORE EXCAVATION OF MANWAY AND PROTECT IN PLACE.

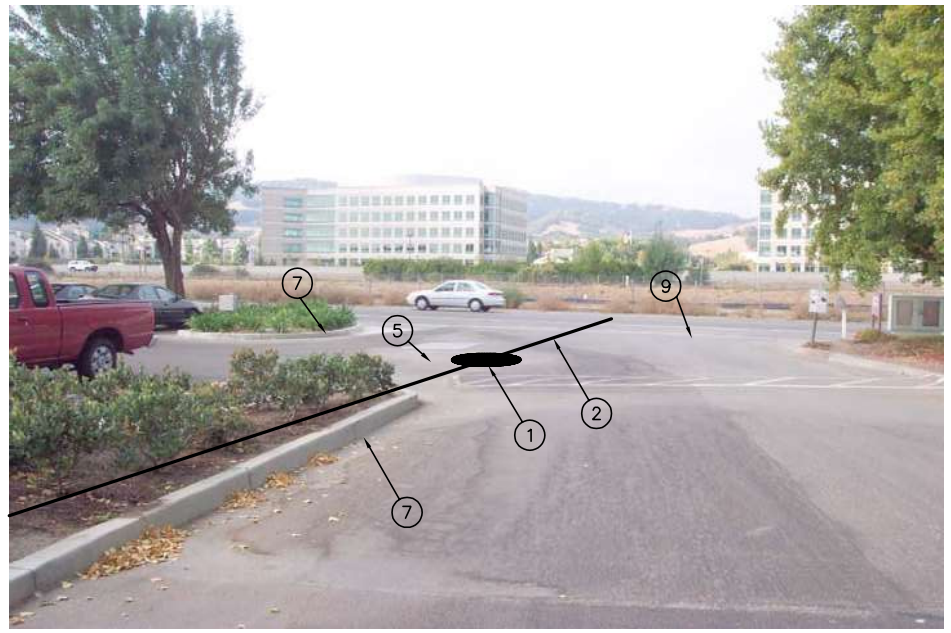
(7) REMOVE AND REPLACE EXISTING CURB, GUTTER, AND SIDEWALK AS REQUIRED TO CONSTRUCT MANWAY.

(8) ELECTRICAL LINE. POTHOLE BEFORE EXCAVATION OF MANWAY AND PROTECT IN PLACE.

(9) CONTRACTOR SHALL COORDINATE WITH CLOROX TO MAINTAIN ACCESS TO DRIVEWAY.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



ACCESS PIT #35 & MANWAY STA 221+42.18 – PHOTO 2
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW (BROWN AND CALDWELL) DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

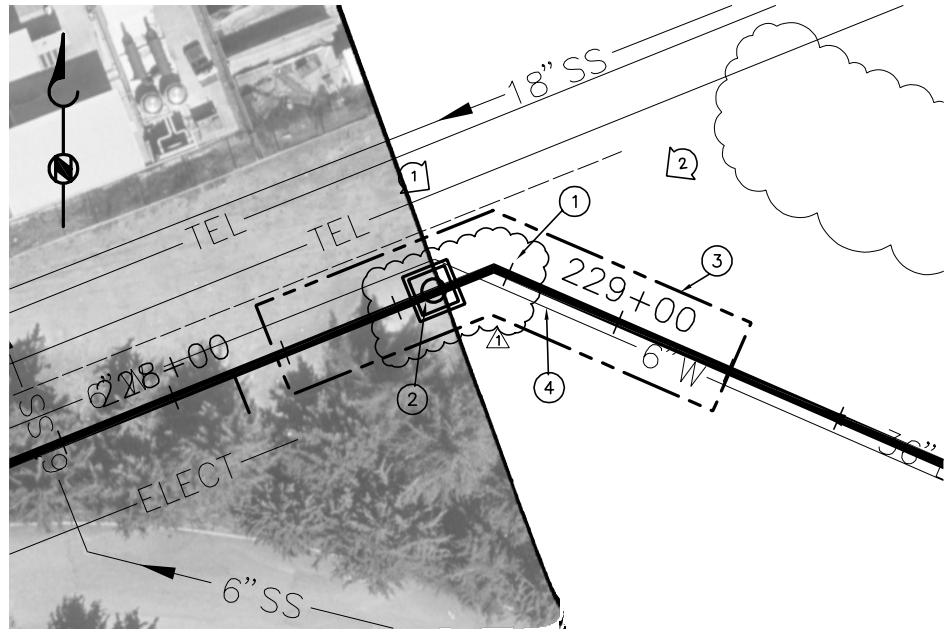
CONSTRUCTION LAYOUT
ACCESS PIT #35 STA 221+42.18

SCALE: AS SHOWN
DRAWING NUMBER: L35
SHEET NUMBER: 92

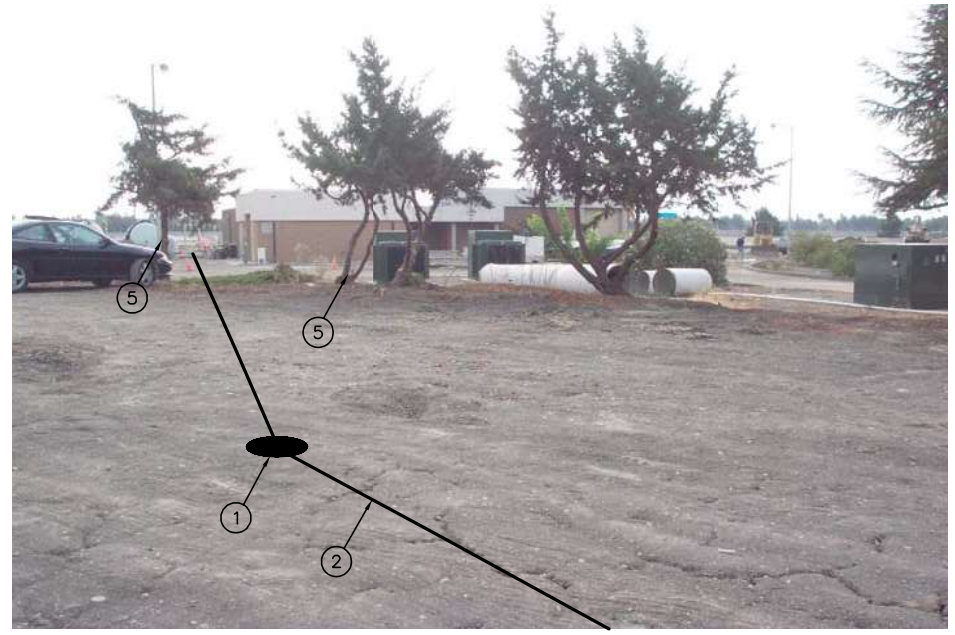
Filename: X-BORDER | X-PROPER | X-SITE4 | x-exutil | Image Filename: 125.tif | 126.tif | C65.tif | lavwma.jpg
Filename: DC-L35 Plot date: Jun 18, 2007-02:40:41pm Plotted by: zburke. Xref Filename:
1=1 PC 1-03 L35

NOTE:

* PICTURES ARE AT 228+71 ±. ACTUAL PIT FOR CML MOVED 11'–0" WEST TO 228+60.



ACCESS PIT #36 & MANWAY STA 228+71.84 – PLAN
SCALE: 1" = 20'



ACCESS PIT #36 & MANWAY STA 228+71.84 – PHOTO 1
NOT TO SCALE

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) INSTALL NEW MANWAY ACCESS PIT #36, STA 228+71.84. SEE DWG C419.
(2) EXISTING 36" LAVWMA PIPELINE.
(3) LIMITS OF WORK AREA.
(4) EXISTING 6" WATER LINE. PROTECT IN PLACE. RELOCATE IF NECESSARY.
(5) PROTECT EXISTING TREES.



ACCESS PIT #36 & MANWAY STA 228+71.84 – PHOTO 2
NOT TO SCALE

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE–EXISTING OR BETTER THAN PRE–EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE, PROJECT MANAGER — DATE: 05/NOV/01
APPROVED: GRACE C. CHOW, BROWN AND CALDWELL — DATE: 05/NOV/02
APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"–SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE
CHECKED _____

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF ACTUAL CONDITIONS.

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT
PROJECT 2003-01

CIVIL

CONSTRUCTION LAYOUT
ACCESS PIT #36 STA 228+71.84

SCALE: AS SHOWN
DRAWING NUMBER: L36
SHEET NUMBER: 93

Filename: X-BORDER | X-PROPER | X-SITE4 | x-exutil | Image Filename: 122.tif | 123.tif | 124.tif | C65.tif | lavwma.jpg | Filename: DC-L36 | Plot date: Jun 18, 2007-02:40:02pm | Plotted by: zburke. Xref Filename: | 1=1 | Cto | 1-03 | L36

NOTE:
* NO NEW ACCESS PIT.WORKED FROM EXISTING ACCESS VAULT (5).

LEGEND

(1) DRAWING NOTE NUMBER

(3) "SNAPSHOT" PHOTOGRAPH LOCATION AND DIRECTION

DRAWING NOTES:

(1) ~~INSTALL ACCESS PIT #37 STA 230+94±. SEE DWG G420.~~ (1)

(2) EXISTING 36" LAVWMA PIPELINE.

(3) LIMITS OF WORK AREA.

(4) EXISTING SURGE TANK. PROTECT TANK AND ALL ASSOCIATED PIPING AND APPURTENANCES IN PLACE.

(5) EXISTING ACCESS VAULT. PROTECT IN PLACE. SEE DETAIL A/C423.

(6) EXISTING PUMP STATION BUILDING. PROTECT FROM DAMAGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

(7) EXISTING AIR CONDITIONING UNIT. PROTECT IN PLACE.

(8) EXISTING LIGHT FIXTURE. PROTECT IN PLACE.

(9) EXISTING ELECTRICAL PANEL. PROTECT IN PLACE.

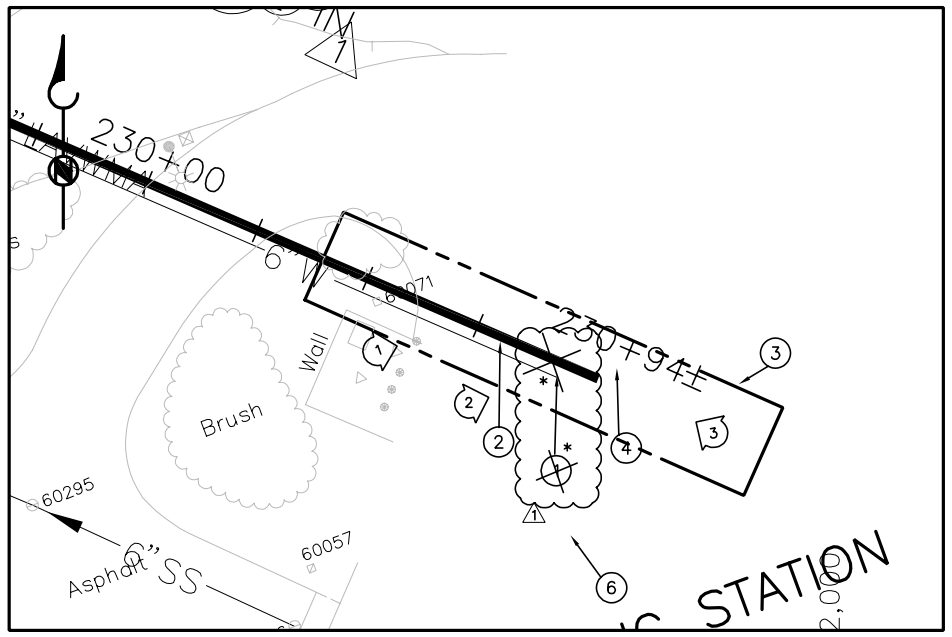
(10) EXISTING POWER PANEL. PROTECT IN PLACE.

(11) REMOVE AND REPLACE EXISTING PAVEMENT AS REQUIRED. SLURRY SEAL PAVEMENT DAMAGE DURING CONSTRUCTION.

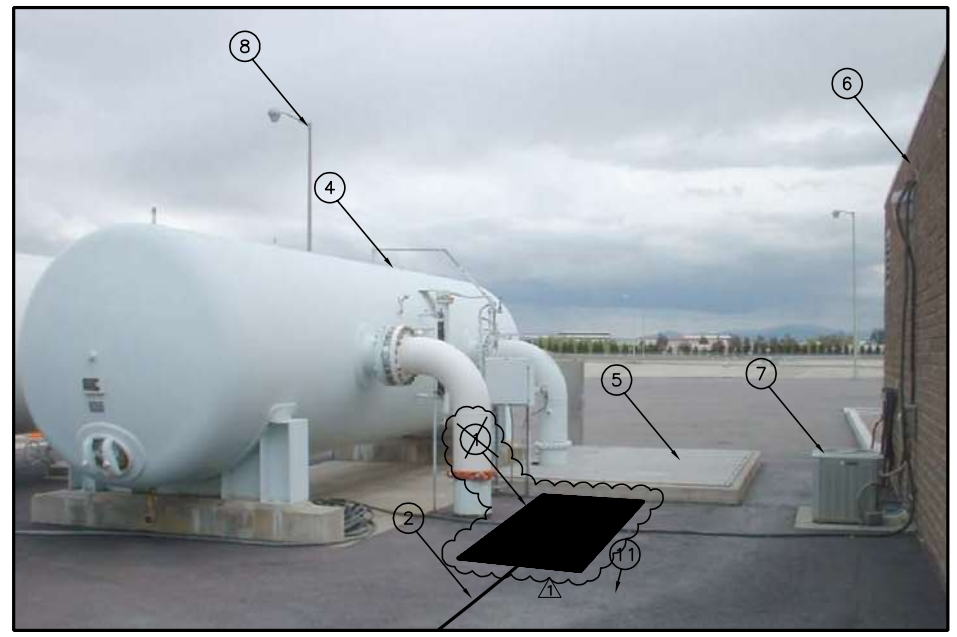
(12) REMOVE AND REPLACE EXISTING CURB, GUTTER, AND SIDEWALK AS REQUIRED.

GENERAL NOTES:

1. "SNAPSHOT" PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND ARE NOT TO SCALE. DIMENSIONS SHALL BE TAKEN FROM THE PROJECT PLAN DRAWINGS AND FROM THE VARIOUS DETAILS AND STANDARD DRAWINGS REFERENCED ON THE PLANS.
2. WHERE DIRECTED TO REPLACE EXISTING FENCING, THE CONTRACTOR SHALL CONSTRUCT NEW FENCING THAT MATCHES THE STYLE, MATERIAL AND FINISH OF THE EXISTING FENCING REMOVED, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES, PLANTING, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE, AND SHALL BE REPLACED IF DAMAGED, AT AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL RETURN WORK SITE TO PRE-EXISTING OR BETTER THAN PRE-EXISTING CONDITIONS AS SHOWN IN THE PHOTOS.
5. LIMITS OF WORK AREA SHOWN ARE APPROXIMATELY 2000 SQUARE FEET IN SIZE. FINAL SIZE AND CONFIGURATION SHALL BE AS APPROVED BY CONSTRUCTION MANAGER.
6. AERIAL PHOTOS WERE TAKEN IN APRIL OF 2000 AND GROUND PHOTOS WERE TAKEN IN APRIL AND MAY OF 2002.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING EXIST FIELD CONDITIONS BEFORE STARTING WORK.



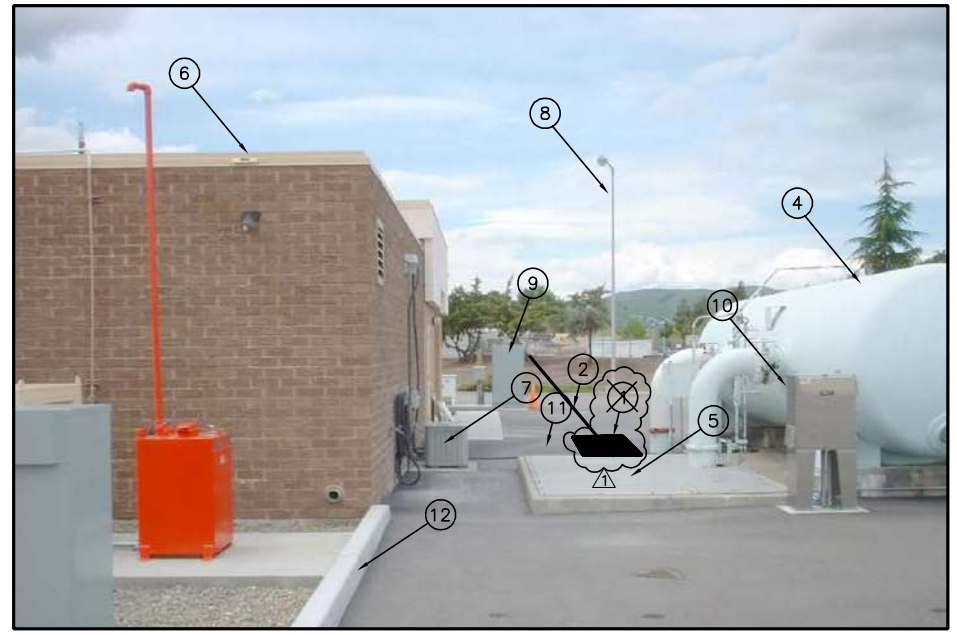
MANWAY STA 230+94± – PLAN
SCALE: 1" = 20'



MANWAY STA 230+94± – PHOTO 1
NOT TO SCALE



MANWAY STA 230+94± – PHOTO 2
NOT TO SCALE



MANWAY STA 230+94± – PHOTO 3
NOT TO SCALE

BROWN AND CALDWELL

SUBMITTED: CHARLES W. JOYCE (PROJECT MANAGER) DATE: 05/NOV/01
APPROVED: GRACE C. CHOW DATE: 05/NOV/02

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

FILE 22471
DRAWN P. CHIN
DESIGNED J. GLYNN
CHECKED C. JOYCE

RECORD DRAWING

THIS RECORD DRAWING WAS PREPARED USING INFORMATION REPORTED TO BROWN AND CALDWELL. THE INFORMATION WAS NOT INDEPENDENTLY FIELD VERIFIED. THIS DRAWING CANNOT BE RELIED UPON AS AN EXACT REPRESENTATION OF

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.
VAR	1	RECORD DRAWING	TU	5/06	CWJ

LAVWMA LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

EXPORT PIPELINE FACILITIES PROGRAM
PIPELINE REHABILITATION REPAIR PROJECT

CIVIL

CONSTRUCTION LAYOUT

SCALE AS SHOWN
DRAWING NUMBER L37
SHEET NUMBER

Filename: DC-L37 | Plot date: Jun 18, 2007-02:39:44pm | Plotted by: zburke | Xref Filename: | X-BORDER | X-PROPER | X-SITE4 | x-exutil | X-TOP08 | Image Filename: | Pit37_Photo1.JPG | Pit37_Photo2.JPG | Pit37_Photo3.JPG | Ic