INDEX OF SHEETS

Sheet No.	Description
1	Title and Location Map
2-6	Drainage Plans
7	Construction Area Signs
STRUCTURE PLANS	
8-16	Paxton Pilot Storm Water Facility

STATE OF CALIFORNIA

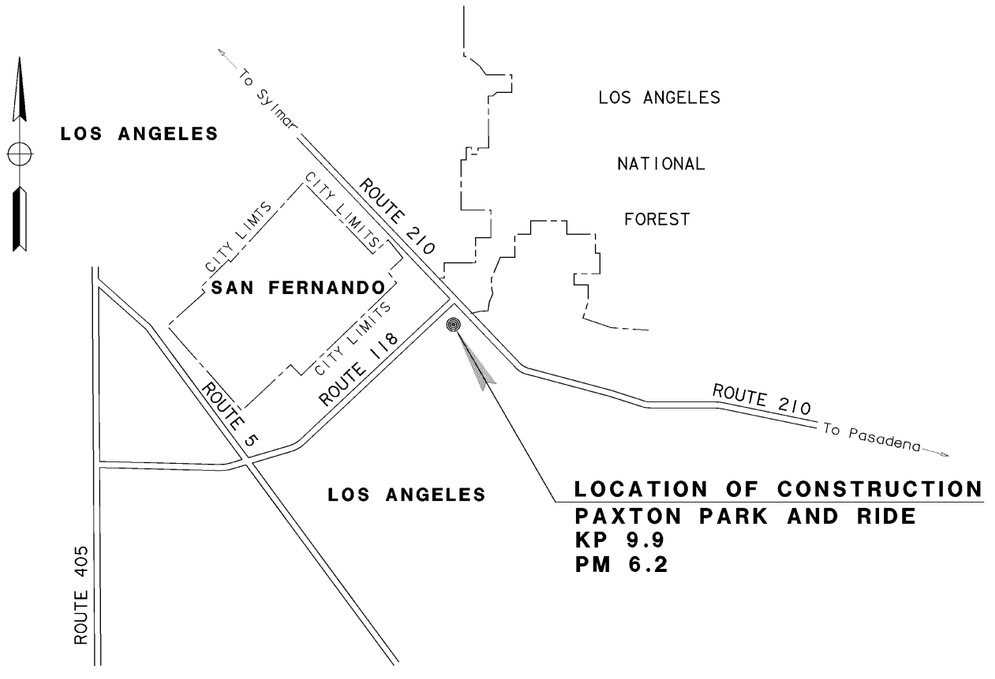
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION

ADJACENT TO STATE HIGHWAY

IN LOS ANGELES COUNTY
IN LOS ANGELES
AT PAXTON PARK AND RIDE

To be supplemented by Standard Plans dated July, 1999



NO SCALE

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	210	9.9	1	16

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

Caltrans Metric

AS-ADVERTISED

Douglas B Robison 9-25-00
Project Eng'neer Date
Regis-ered Civ'l Eng'neer

DOUGLAS B. ROBISON No. 37109 Exp. 6-30-04 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

January 1, 2001
Plans Approval Date

BROWN AND CALDWELL
16735 VON KARMAN
IRVINE, CA 92606

Contract No. 07-4G5404

PROJECT ENGINEER: DOUG ROBISON
DESIGN OVERSIGHT APPROVAL — PRINTED NAME: REFUGIO DOMINGUEZ — SIGNATURE
REGISTRATION NO.: 50820
DATE: 09/30/01

Approved as to impact on State facilities and conformance with applicable state standards and practices and that technical oversight was performed as described in the California Department of Transportation A & E Consultant Service Manual.

The Contractor shall possess the Class (or Classes) of license as specified in the ''Notice to Contractors''.

LAST REVISION: DATE PLOTTED => 03-JAN-2001 TIME PLOTTED => 13:39
00-00-00

FORM DC-OE-93-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => trmnguye
DGN FILE => T4G5404a1.dgn

CU 07279 EA 4G5401

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	2	16

Douglas B Robison 9-25-00
REGISTERED CIVIL ENGINEER DATE

DOUGLAS B. ROBISON No. 37109 Exp. 6-30-04 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

X

BROWN AND CALDWELL
16735 VON KARMAN
IRVINE, CA 92606

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

DATE	REVISED BY
6/00	DBR
6/00	DATE REVISED 8/00

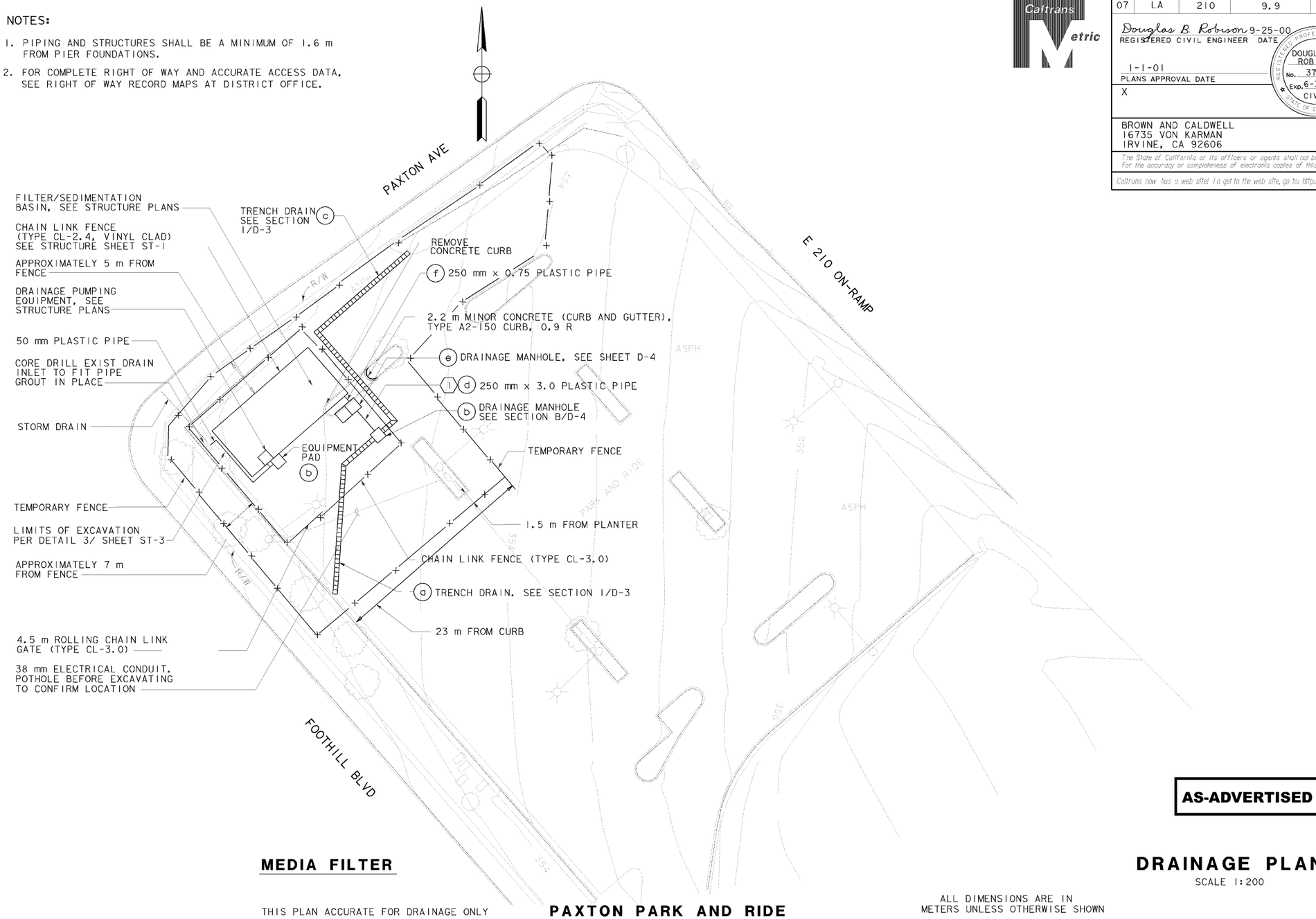
CALCULATED/DESIGNED BY: DBR
CHECKED BY: RMF

DESIGN OVERSIGHT
REFUGIO DOMINGUEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

NOTES:

1. PIPING AND STRUCTURES SHALL BE A MINIMUM OF 1.6 m FROM PIER FOUNDATIONS.
2. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



AS-ADVERTISED

MEDIA FILTER

THIS PLAN ACCURATE FOR DRAINAGE ONLY

PAXTON PARK AND RIDE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DRAINAGE PLAN

SCALE 1:200

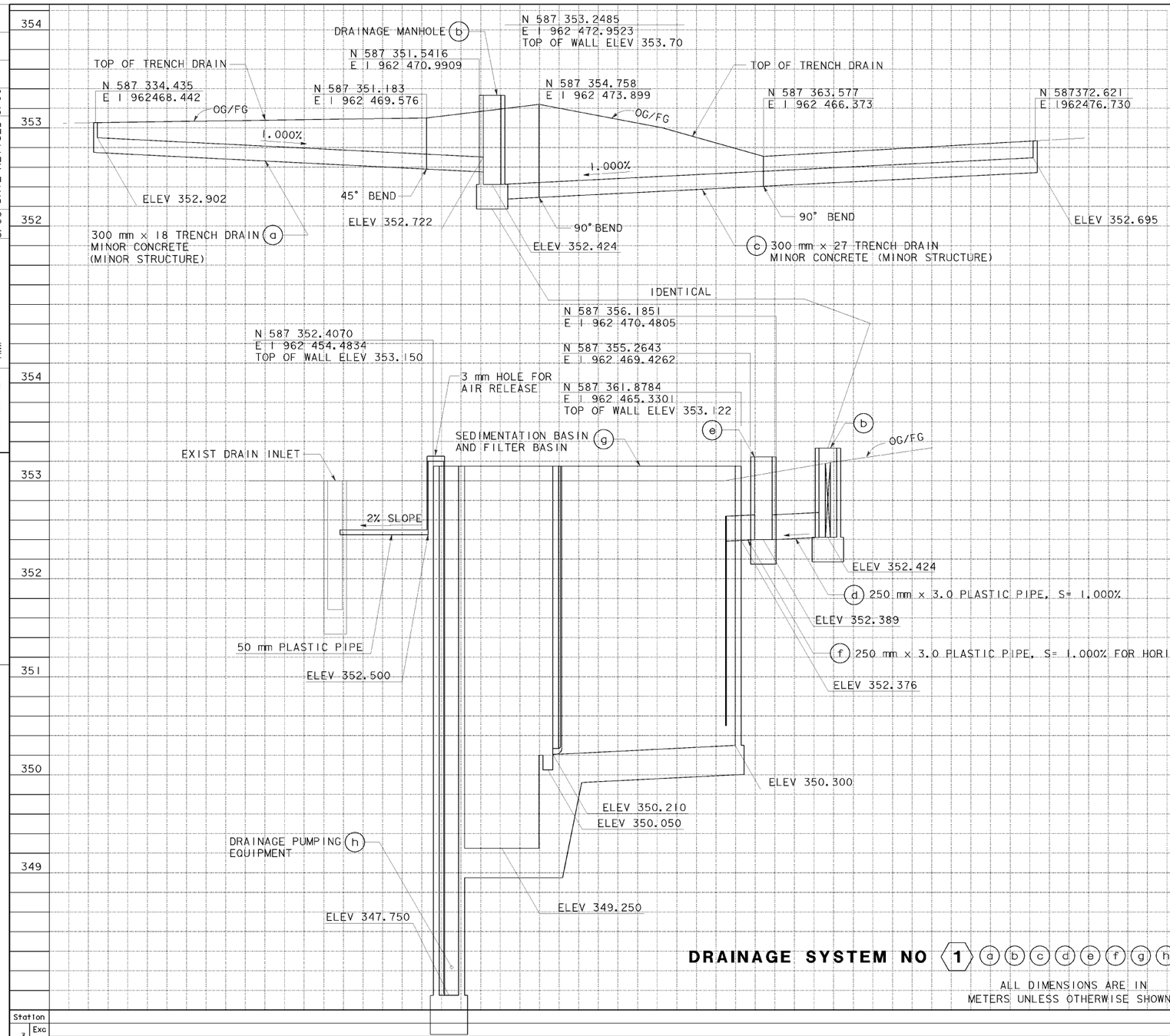
D-1

FOR REDUCED PLANS ORIGINAL SCALE IN MILLIMETERS 0 20 40 60 80

USERNAME => t:\mnguye
DGN FILE -> 74g540101.dgn

CU 07279 | EA 4G5401

LAST REVISION 00-00-00 DATE PLOTTED => 03-JAN-2001 TIME PLOTTED => 13:38



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	3	16

Douglas B Robison 9-25-00
REGISTERED CIVIL ENGINEER DATE

DOUGLAS B. ROBISON No. 37109 Exp. 6-30-04 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

X

BROWN AND CALDWELL
16735 VON KARMAN
IRVINE, CA 92606

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

DESIGN OVERSIGHT
REFUGIO DOMINGUEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

DATE REVISED	BY	DATE REVISED	BY
6/00	DBR	8/00	DBR

CALCULATED/DESIGNED BY
CHECKED BY
RMF

Station
m³ Exc
Emb

AS-ADVERTISED

DRAINAGE SYSTEM NO 1 (a) (b) (c) (d) (e) (f) (g) (h)

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

DRAINAGE PROFILE

SCALE: HORIZ 1:100
VERT 1:20

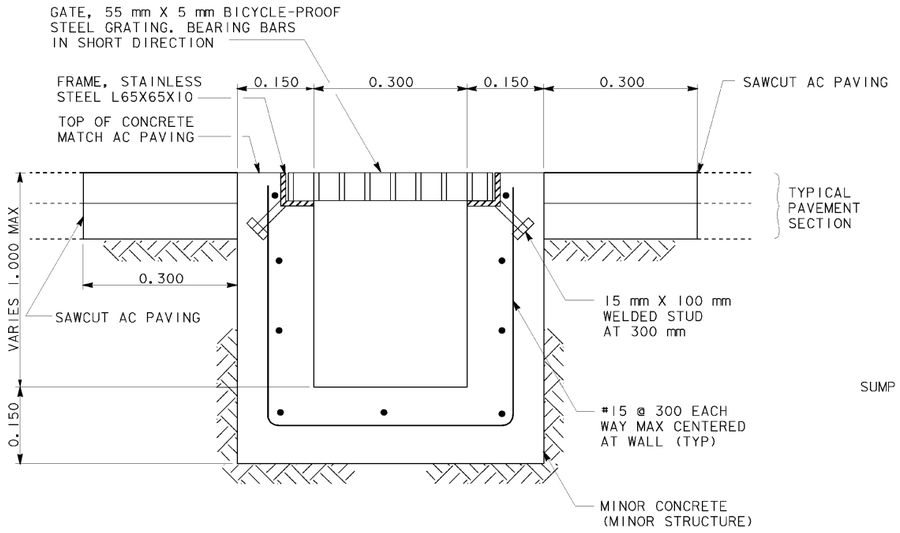
D-2

LAST REVISION
00-00-00 DATE PLOTTED => 04-JAN-2001
TIME PLOTTED => 09:15

FOR REDUCED PLANS
ORIGINAL SCALE IN MILLIMETERS 0 20 40 60 80

USERNAME => tmnguye
DGN FILE -> 74g540102.dgn

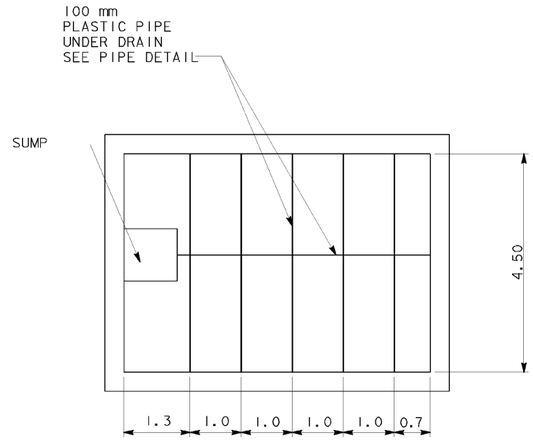
CU 07279 EA 4G5401



TRENCH DRAIN (1) 1 a c

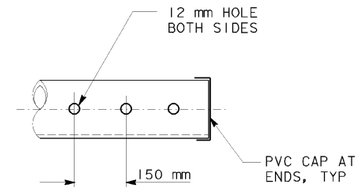
DRAINAGE SYSTEM NO

SCALE: 1:5



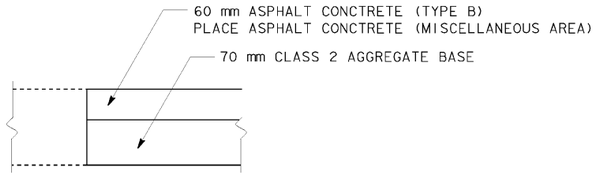
PLASTIC PIPE UNDERDRAIN PLAN FOR FILTER SYSTEM

NO SCALE



PIPE DETAIL

NO SCALE



TYPICAL PAVEMENT SECTION (EXISTING AND NEW)

SCALE: 1:5

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

AS-ADVERTISED

DRAINAGE DETAILS

SCALE: AS NOTED

D-3

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	4	16

Douglas B Robison 9-25-00
REGISTERED CIVIL ENGINEER DATE

DOUGLAS B. ROBISON No. 37109 Exp. 6-30-04 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

X

BROWN AND CALDWELL
16735 VON KARMAN
IRVINE, CA 92606

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

DESIGN OVERSIGHT
REFUGIO DOMINGUEZ

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DBR
CHECKED BY	6/00	DATE REVISED	8/00
DBR	RMF 6/00		

FOR REDUCED PLANS
ORIGINAL SCALE IN MILLIMETERS 0 20 40 60 80

USERNAME => tmnguye
DGN FILE -> 74g540103.dgn

CU 07279 | EA 4G5401

LAST REVISION 00-00-00 | DATE =>LOTTED => 03-JAN-2001
TIME =>LOTTED => 13:39

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	5	16

Douglas B Robison 9-25-00
REGISTERED CIVIL ENGINEER DATE

1-1-01
PLANS APPROVAL DATE

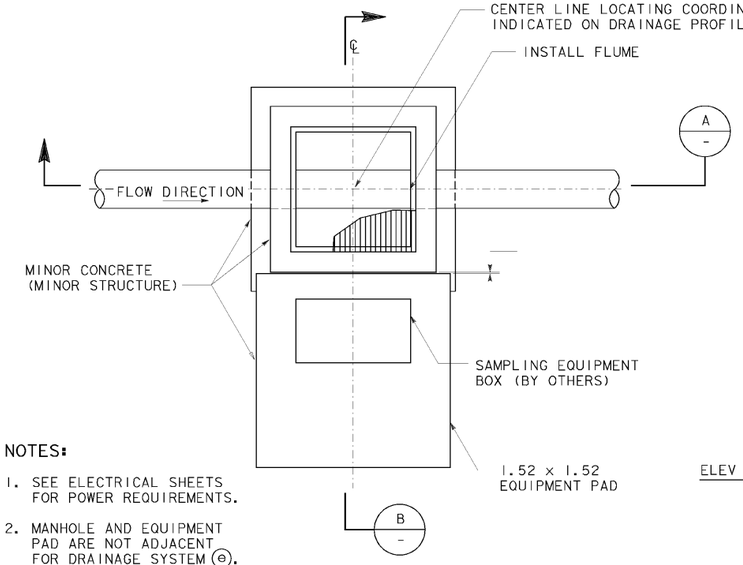
X

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS B. ROBISON
No. 37109
Exp. 6-30-04
CIVIL
STATE OF CALIFORNIA

BROWN AND CALDWELL
16735 VON KARMAN
IRVINE, CA 92606

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

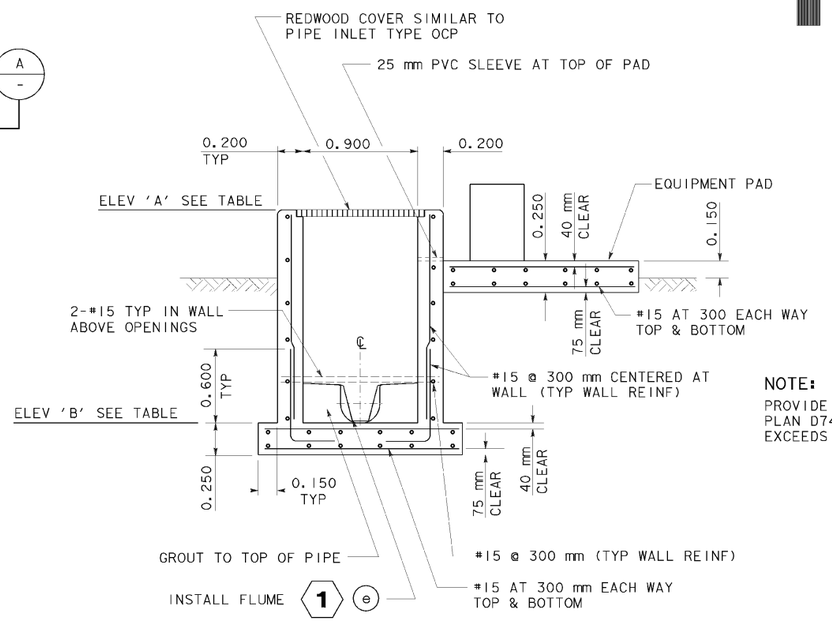
Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov



NOTES:

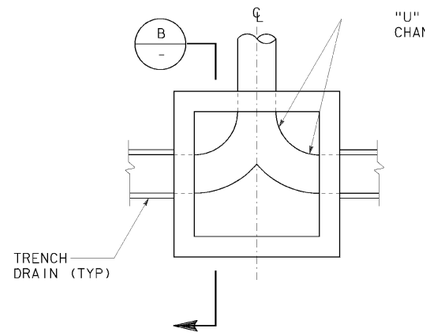
1. SEE ELECTRICAL SHEETS FOR POWER REQUIREMENTS.
2. MANHOLE AND EQUIPMENT PAD ARE NOT ADJACENT FOR DRAINAGE SYSTEM (e). SEE D-1 FOR LOCATIONS.

DRAINAGE MANHOLE PLAN
DRAINAGE SYSTEM NO 1 (e) (b)

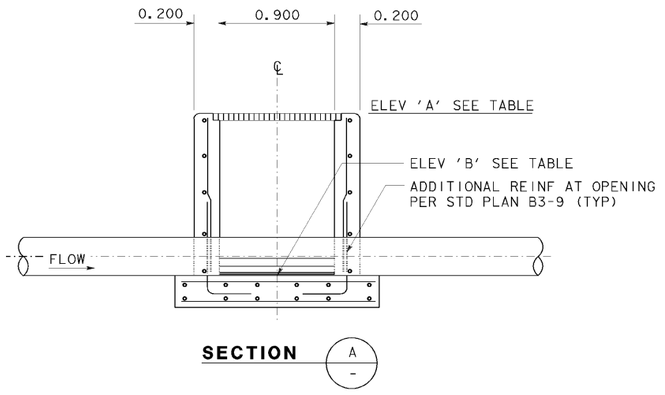


SECTION B

NOTE:
PROVIDE STEP INSERTS PER STD PLAN D74C WHEN DEPTH EXCEEDS 1 m



BOTTOM PLAN FOR 1 (b)



SECTION A

DRAINAGE UNIT	ELEVATION 'A'	ELEVATION 'B'
1 (e)	353.322*	352.389
1 (b)	355.700*	352.424

* VERIFY-PLACE 0.5 m ABOVE EXISTING GRADE

AS-ADVERTISED

DRAINAGE DETAILS

SCALE 1:20

D-4

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FOR REDUCED PLANS ORIGINAL SCALE IN MILLIMETERS 0 20 40 60 80

USERNAME => tmnguye
DGN FILE -> 74g540104.dgn

CU 07279 | EA 4G5401

LAST REVISION 00-00-00 DATE PLOTTED => 03-AN-2001 TIME PLOTTED => 13:39

	CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
	DBR	6/00	DBR	8/00
	CHECKED BY	6/00	RMF	6/00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
DESIGN OVERSIGHT
REFUGIO DOMINGUEZ

ROADWAY QUANTITIES

LOCATION OF CONSTRUCTION	TEMPORARY FENCE	CHAIN LINK FENCE (TYPE CL-3.0)	CHAIN LINK FENCE (TYPE CL-2.4, VINYL CLAD)	1.2 m CHAIN LINK GATE (TYPE CL-2.4, VINYL CLAD)	1.8 m CHAIN LINK GATE (TYPE CL-2.4, VINYL CLAD)	3.0 m CHAIN LINK GATE (TYPE CL-2.4, VINYL CLAD)	4.5 m ROLLING CHAIN LINK GATE (TYPE CL-3.0)	MINOR CONCRETE (CURB AND GUTTER)	ASPHALT CONCRETE (TYPE B)	CLASS 2 AGGREGATE BASE	REMOVE CONCRETE CURB	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)
	m	m	m	EA	EA	EA	EA	m	TONN	m^3	m^3	m^2
PAXTON PARK AND RIDE	160	68	35	1	1	1	1	2.2	9.3	4.7	0.4	27

DRAINAGE QUANTITIES

⬡ DRAINAGE SYSTEM NO	◯ DRAINAGE UNIT	(N) REDWOOD COVER	MISCELLANEOUS IRON AND STEEL	MINOR CONCRETE (MINOR STRUCTURE)	250 mm PLASTIC PIPE	DRAINAGE PLAN SHEET NO	DESCRIPTION
		EA	kg	m^3	m		
1	a		988	5		D-1	TRENCH DRAIN
	b	1		3.5		D-1	DRAINAGE MANHOLE WITH PAD
	c		1483	7		D-1	TRENCH DRAIN
	d				3	D-1	250 mm PLASTIC PIPE
	e	1		2		D-1	DRAINAGE MANHOLE WITH PAD
	f				0.75	D-1	250 mm PLASTIC PIPE
SHEET TOTAL		2	2471	17.5	3.75		

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	6	16

Douglas B Robison 9-25-00
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS B. ROBISON
No. 37109
Exp. 6-30-04
CIVIL
STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

X

BROWN AND CALDWELL
16735 VON KARMAN
IRVINE, CA 92606

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

AS-ADVERTISED

DRAINAGE AND ROADWAY QUANTITIES

D-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

DESIGN OVERSIGHT: REFUGIO DOMINGUEZ
CALCULATED/DESIGNED BY: DBR
CHECKED BY: RMF

DATE	REVISED BY
6/00	DBR
6/00	DATE REVISED 8/00

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JAN-2001 | TIME PLOTTED => 13:39

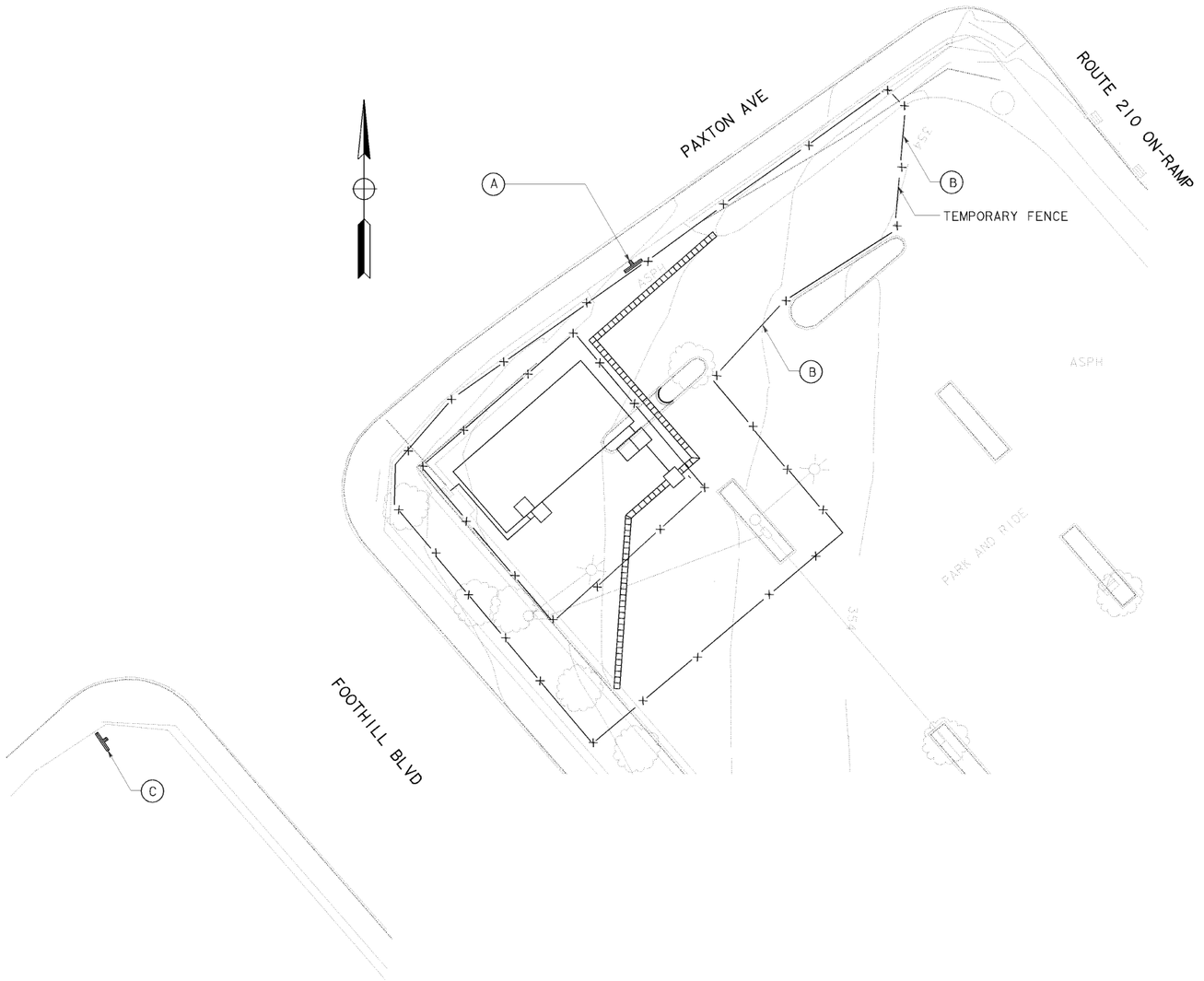
FOR REDUCED PLANS
ORIGINAL SCALE IN MILLIMETERS 0 20 40 60 80

USERNAME => tmnguye
DGN FILE -> 74g540105.dgn

CU 07279 | EA 4G5401

NOTE:

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	7	16

Douglas B Robison 9-25-00
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS B. ROBISON
No. 37109
Exp. 6-30-04
CIVIL
STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

X

BROWN AND CALDWELL
16735 VON KARMAN
IRVINE, CA 92606

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

CONSTRUCTION AREA SIGNS

SIGN NO	SIGN CODE	PANEL SIZE (mm)	SIGN MESSAGE	MOUNTING	NO OF SIGNS
(A)	-	800 x 600	SEE DETAIL	STATIONARY, ON FENCE	1
(B)	C2	900 x 600	ROAD CLOSED	STATIONARY, ON FENCE	2
(C)	0	800 x 600	SEE DETAIL	SINGLE WOOD POST	1

800 mm x 600 mm

LETTERING 100 UC

ENTRANCE CLOSED.
USE OTHER ENTRANCE
ON FOOTHILL BLVD.

DETAIL SIGN NO A

800 mm x 600 mm

LETTERING 100 UC

FOR PARK AND RIDE
USE FOOTHILL BLVD
ENTRANCE

DETAIL SIGN NO C

AS-ADVERTISED

CONSTRUCTION AREA SIGNS

SCALE 1:200

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FOR REDUCED PLANS
ORIGINAL SCALE IN MILLIMETERS

0 20 40 60 80

USERNAME => tmnguye
DGN FILE -> 74g540m01.dgn

CU 07279

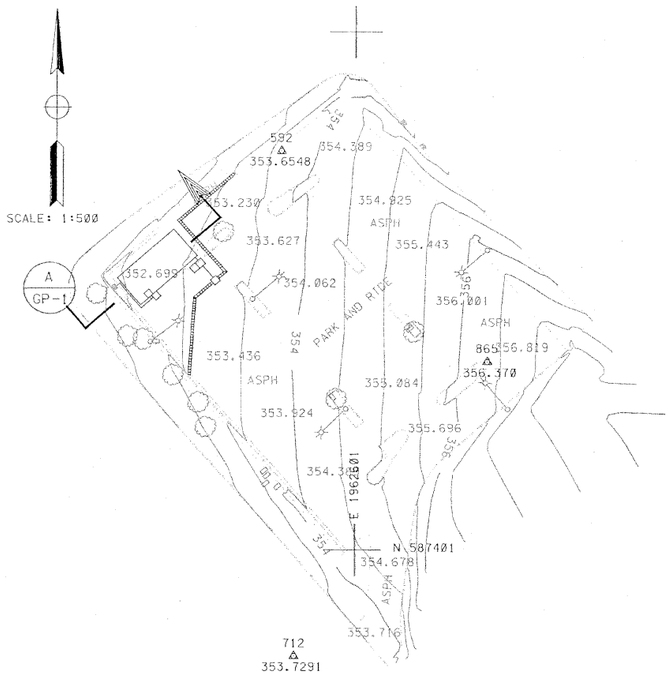
EA 4G5401

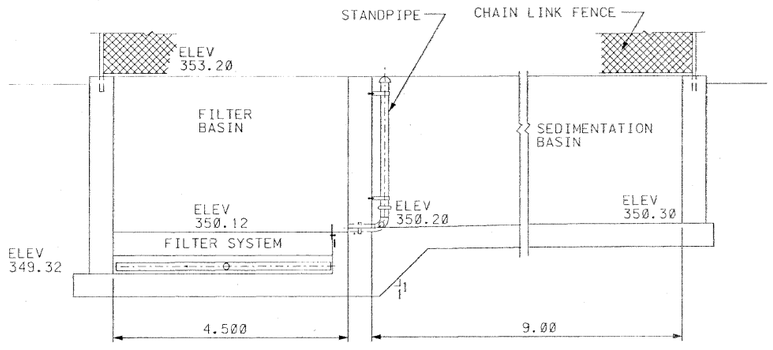
LAST REVISION 00-00-00
DATE =>LOTTED => 03-JAN-2001
TIME =>LOTTED => 13:38

CALCULATED/ DESIGNED BY	DR	DATE 6/00	DBR
CHECKED BY	RMF	6/00	8/00

DESIGN OVERSIGHT
REFUGIO DOMINGUEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT





SECTION (A / GP-1)
SCALE: 1:40

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	8	16

Douglas B. Robison 8/1/00
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — DOUGLAS B. ROBISON — No. 37109 — Exp. 06-30-04 — CIVIL — STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

INDEX OF SHEETS

SHEET NØ.		DESCRIPTION
1	GP-1	GENERAL PLAN
		STRUCTURAL
2	ST-1	STRUCTURAL DETAILS
3	ST-2	STRUCTURAL DETAILS
4	ST-3	STRUCTURAL DETAILS
5	ST-4	STRUCTURAL DETAILS
6	ST-5	LOG OF TEST BORINGS
		MECHANICAL
7	M-1	MECHANICAL DETAILS
		ELECTRICAL
8	EE-1	ELECTRICAL PLAN
9	EE-2	ELECTRICAL LEGEND, NOTES, AND DETAILS

STANDARD PLANS DATED JULY 1999

A85	CHAIN LINK FENCE
B3-9	RETAINING WALL DETAILS NO. 2

ABBREVIATIONS

CONT	CONTINUE
DET	DETAIL
ELEV	ELEVATION
JT	JOINT
MAX	MAXIMUM
m	METERS
mm	MILLIMETERS
NO	NUMBER
REINF	REINFORCED
R/W	RIGHT OF WAY

LEGEND

(h) ROADWAY DRAINAGE UNIT (SEE SHEET D-5)

(!) NOTES. SEE UPPER LEFT CORNER OF SHEET.

EQUIPMENT SCHEDULE

PUMP	FLOW, m3/hr	TOTAL DYNAMIC HEAD, m	MOTOR KILOWATT MAXIMUM	MOTOR SPEED, MAXIMUM	VOLTAGE/ PHASE	DISCHARGE DIAMETER, mm
SUBMERSIBLE PUMP	9.5 15.0 21.3	6.1 4.9 3.4	0.4	1800	120/1	50

QUANTITIES		
STRUCTURE EXCAVATION (BRIDGE)	420	m3
STRUCTURE BACKFILL (BRIDGE)	90	m3
STRUCTURAL CONCRETE, BRIDGE	82	m3
BAR REINFORCING STEEL (BRIDGE)	8,807	kg
900 MM PLASTIC PIPE RISER	5.7	m
DRAINAGE PUMPING EQUIPMENT	LUMP SUM	
PUMPING PLANT METAL WORK	45	kg
ELECTRICAL WORK	LUMP SUM	

AS-ADVERTISED

GP-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Patricia McCauley
DESIGN OVERSIGHT
8-23-00
SIGN OFF DATE

DESIGN	BY DBR	CHECKED RMF					
DETAILS	BY DBR	CHECKED RMF	LAYOUT	BY DBR	CHECKED	RMF	
QUANTITIES	BY EQ	CHECKED RN	SPECIFICATIONS	BY DBR	PLANS AND SPECS COMPARED	DBR	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

CU 07279
EA 465401

BRIDGE NO. N/A
KILOMETER POST 9.9

PAXTON PILOT STORM WATER FACILITY

GENERAL PLAN

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 6/00 | 6/00 | 8/00 | 8/14/00

SHEET 1 OF 9

74g5401#01of09.tif

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	9	16

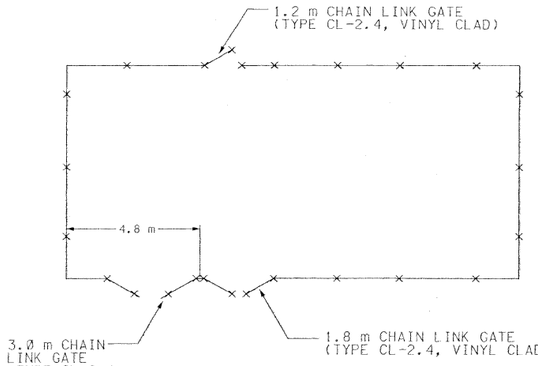
Douglas B. Robison 8/1/00
REGISTERED ENGINEER - CIVIL

1-1-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DOUGLAS B. ROBISON — No. 37109 — Exp. 06-30-04 — CIVIL — STATE OF CALIFORNIA

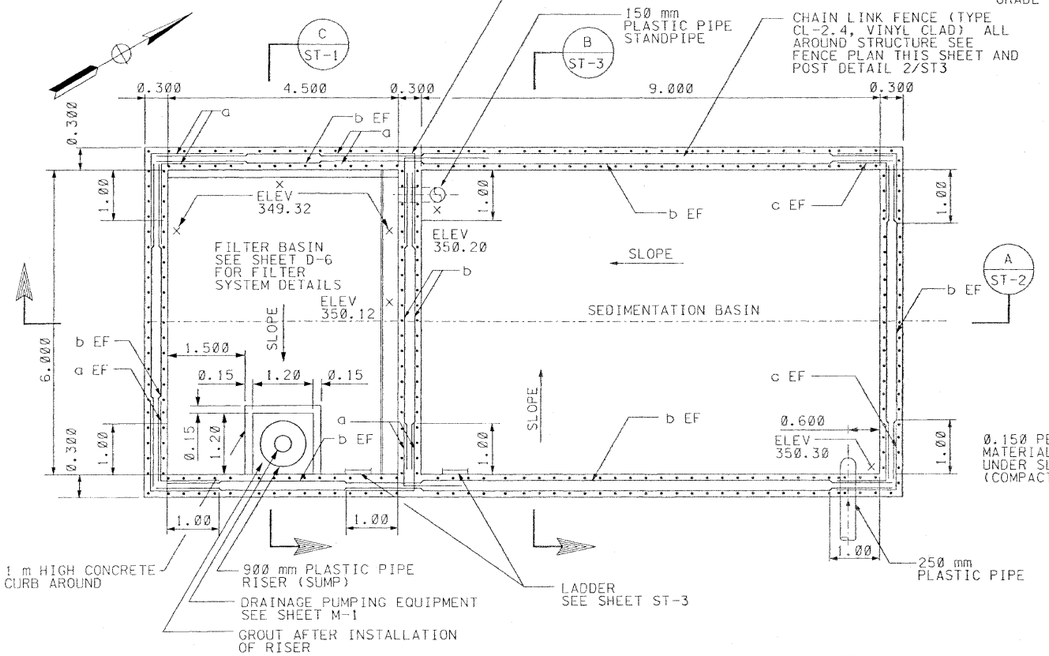
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov



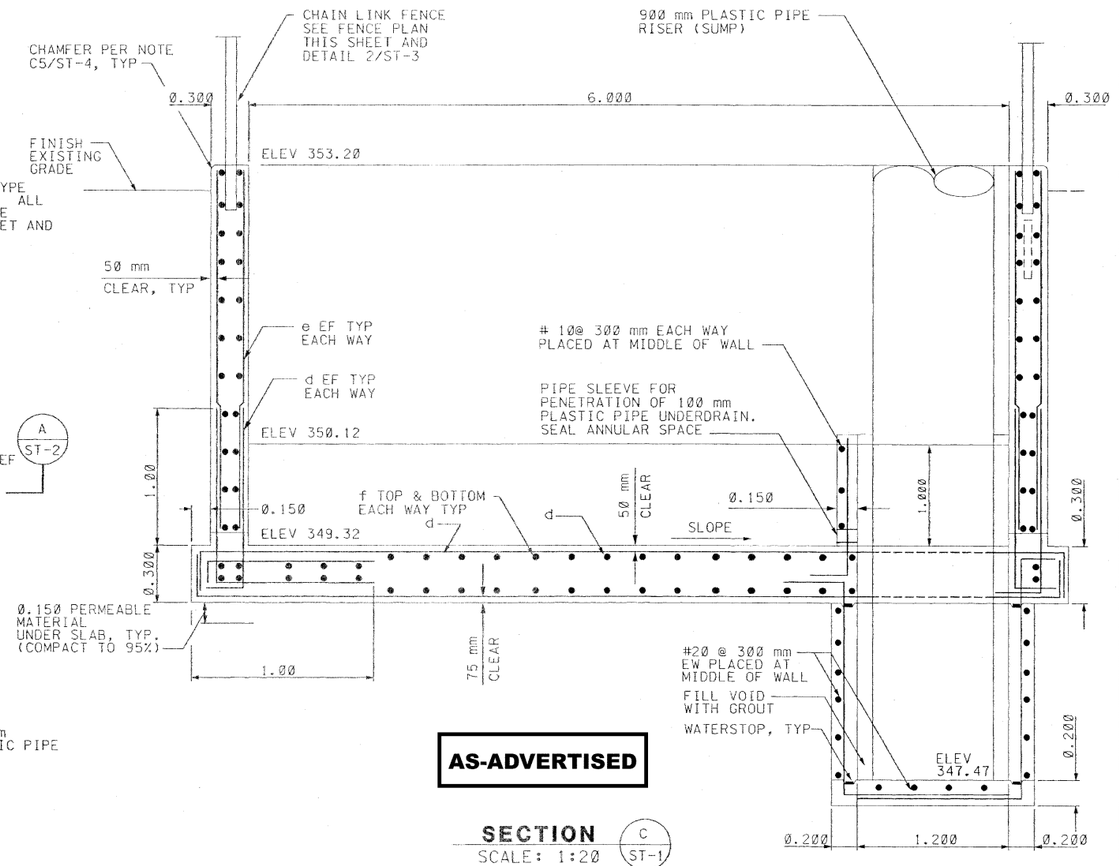
	BASIN REINFORCEMENT					
SITE	a	b	c	d	e	f
SITE 1	#15 AT 300 mm	#15 AT 300 mm	#15 AT 300 mm	#20 AT 300 mm	#15 AT 300 mm	#15 AT 300 mm

BASIN FENCE PLAN
NO SCALE



SEDIMENTATION BASIN AND FILTER BASIN PLAN (1)

DRAINAGE SYSTEM NO 1 (g)
SCALE: 1:50



AS-ADVERTISED

SECTION (C ST-1)
SCALE: 1:20

NOTE:
*(I)=HIGH POINT IN SEDIMENTATION BASIN SLAB
EF=EACH FACE

ST-1
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Patricia McCauley DESIGN OVERSIGHT 8-23-00 SIGN OFF DATE	DESIGN	BY EQ	CHECKED RN	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. N/A	PAXTON PILOT STORM WATER FACILITY	
	DETAILS	BY EQ	CHECKED RN		KILOMETER POST 9.9	STRUCTURAL DETAILS	
	QUANTITIES	BY EQ	CHECKED RN				

OS CSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

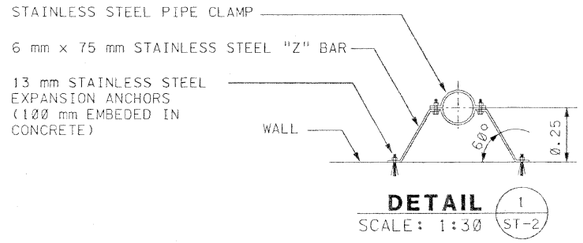
CU 07279
EA 405401

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3/00 6/00 8/00 8/14/00

SHEET 2 OF 9

74g5401#02of09.tif



DETAIL 1 / ST-2
SCALE: 1:30

NOTES:

1. SEE DRAINAGE PROFILE DRAWINGS FOR ELEVATIONS.
2. THE SURFACE OF THE GRAVEL IS TO BE COVERED WITH FILTER FABRIC BRING FABRIC UP SIDES TO 400 mm ABOVE SAND. ADHERE TO WALL WITH APPROVED SEALANT. ENSURE SNUG FIT AT CORNERS.
3. (3) HOLES IN STANDPIPE AT FLOOR LEVEL. SIZE PER ENGINEER.
4. PROVIDE 90 mm DEEP V-NOTCHES EVERY 1 m PLUS FIVE 6mm WEEP HOLES.
5. SMALL LETTERS REFER TO REINFORCING SCHEDULE SEE ST-1.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	10	16

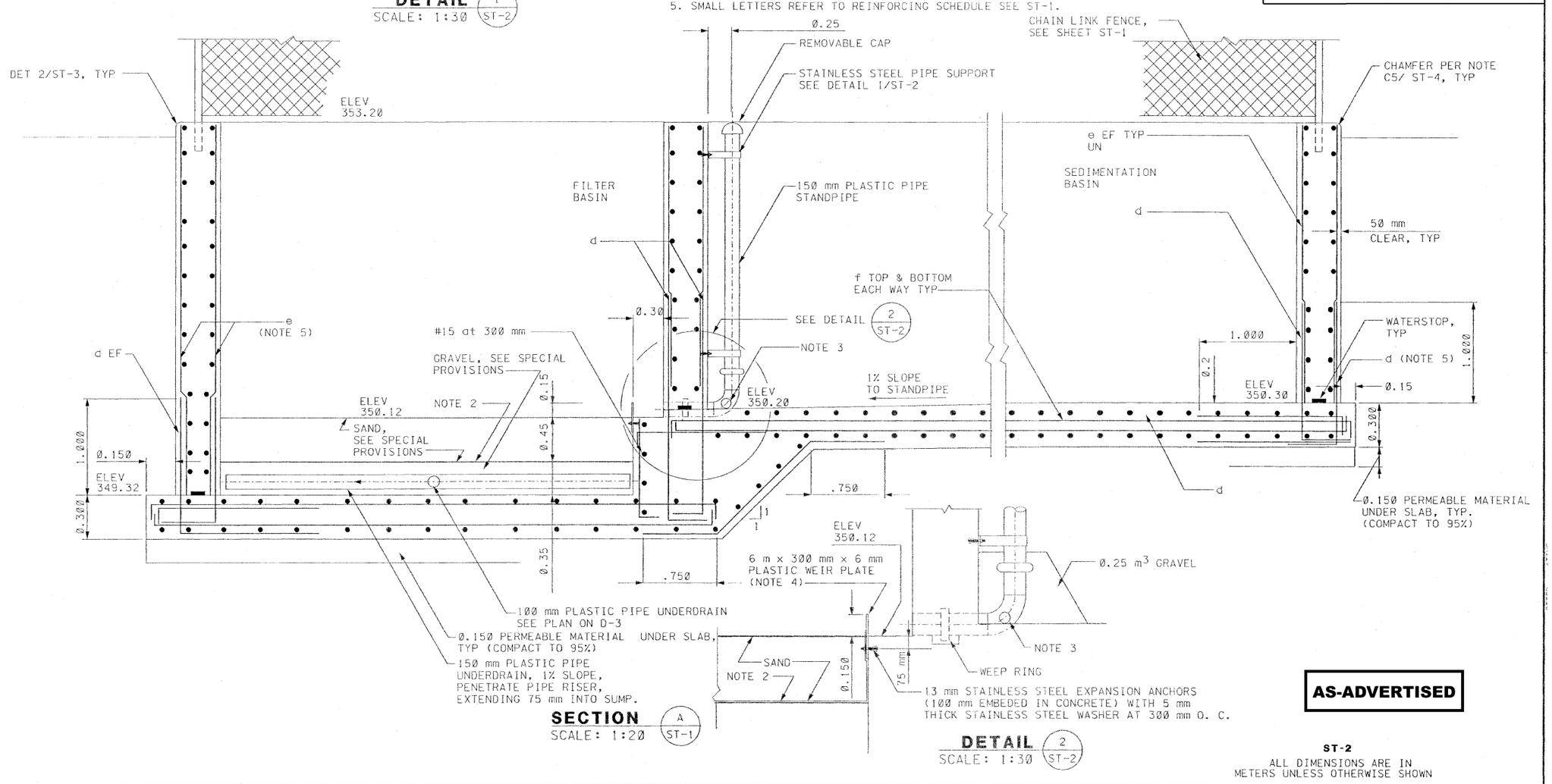
Douglas B. Robison 8/1/00
REGISTERED ENGINEER - CIVIL

1-1-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DOUGLAS B. ROBISON — No. 37109 — Exp. 06-30-04 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov



SECTION A / ST-1
SCALE: 1:20

DETAIL 2 / ST-2
SCALE: 1:30

AS-ADVERTISED

ST-2
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Patricia McCauley
DESIGN OVERSIGHT
8-23-00
SIGN OFF DATE

	BY	CHECKED
DESIGN	EQ	RN
DETAILS	EQ	RN
QUANTITIES	EQ	RN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. N/A
KILOMETER POST 9.9

PAXTON PILOT STORM WATER FACILITY
STRUCTURAL DETAILS

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07279
EA 405401

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3/00 | 6/00 | 8/00 | 8/10/00

SHEET 3 OF 9

74g5401#03of09.tif

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	11	16

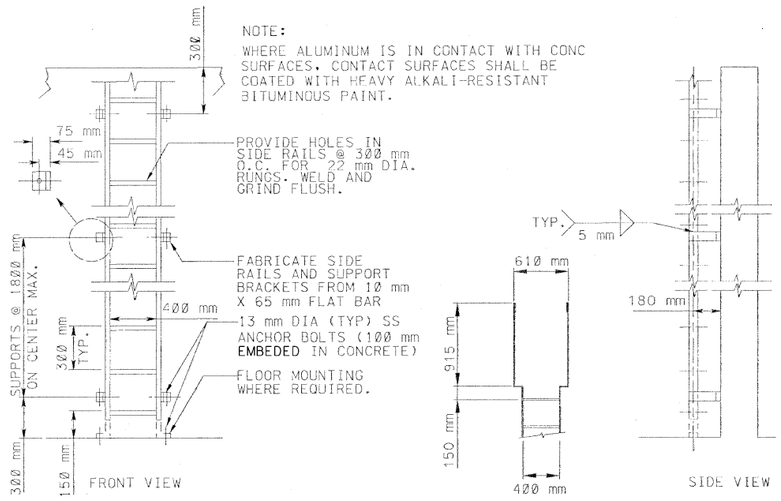
Douglas B. Robison 8/1/00
REGISTERED ENGINEER - CIVIL

1-1-01
PLANS APPROVAL DATE

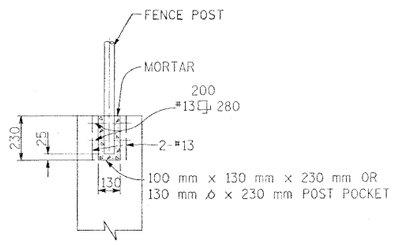
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER — DOUGLAS B. ROBISON — No. 37189 — Exp. 06-30-04 — CIVIL — STATE OF CALIFORNIA

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov



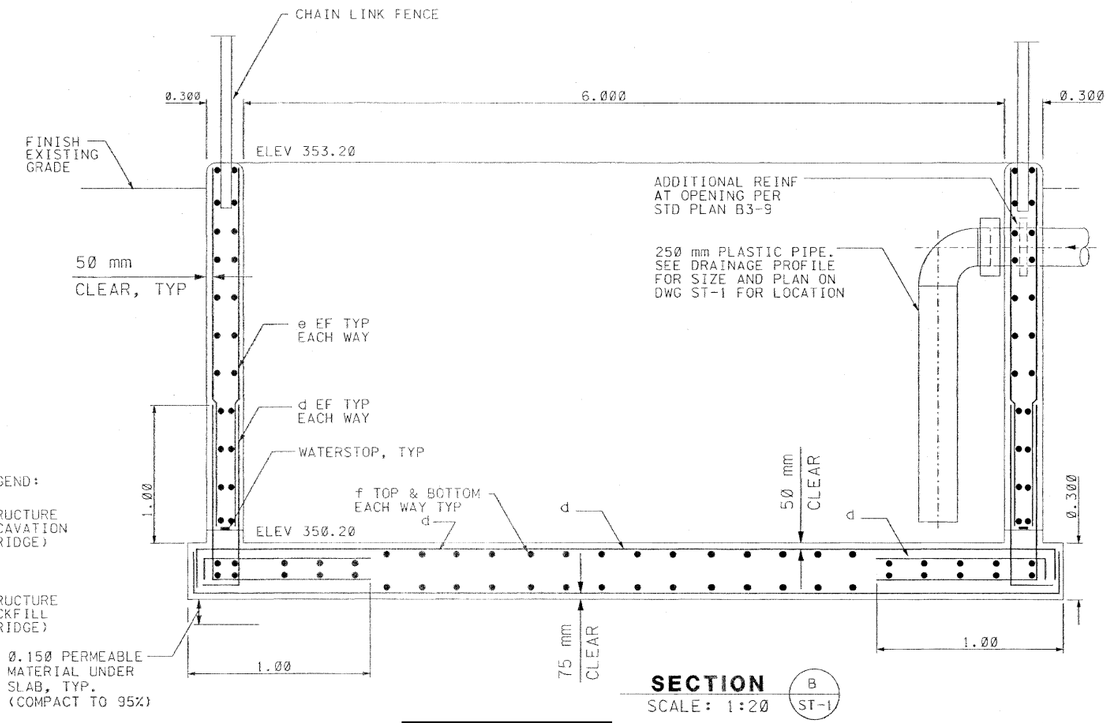
DETAIL 1 / VAR
SCALE: NONE



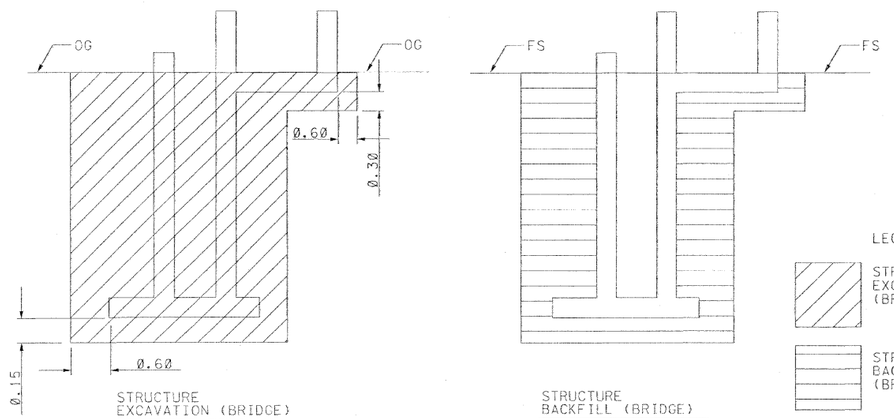
POST POCKET DETAIL 2 / VAR
SCALE: NONE

LADDER SCHEDULE

LOCATION	TOP OF WALL ELEVATION	FLOOR OF PLATFORM ELEVATION
STRUCTURE, NORTH SIDE	353.20	350.30
STRUCTURE, SOUTH SIDE	353.20	350.12



SECTION B / ST-1
SCALE: 1:20



LIMITS OF PAYMENT
DETAIL 3 / VAR
SCALE: NONE

AS-ADVERTISED

ST-3
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Patricia McCauley
DESIGN OVERSIGHT
8-23-00
SIGN OFF DATE

	BY	CHECKED
DESIGN	EQ	RN
DETAILS	EQ	RN
QUANTITIES	EQ	RN

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE NO. N/A
KILOMETER POST 9.9

PAXTON PILOT STORM WATER FACILITY
STRUCTURAL DETAILS

DS 05D 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

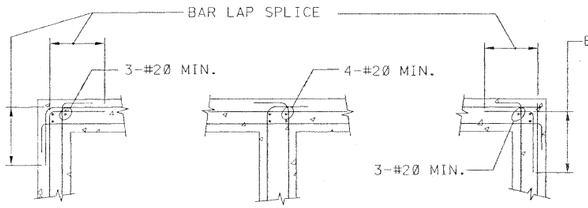
CU 07279
EA 4G5401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/00 | 6/00 | 8/00 | 9/14/00

SHEET 4 OF 9

74g5401#04of09.tif



CORNER | INTERSECTIONS | CORNER (OPTIONAL) | CORNER | INTERSECTION | CORNER (OPTIONAL)

NOTES :

1. ALL 90° BENDS SHALL BE STANDARD HOOKS PER ACI 315 UNLESS OTHERWISE SPECIFIED.
2. SEE OTHER DETAILS AND NOTES FOR SIZE AND SPACING OF REINFORCING.
3. LAP AND HOOK FOOTING BARS AT CORNERS AND INTERSECTIONS SAME AS FOR WALLS EXCEPT THAT ADDED VERTICAL AT CORNERS AND INTERSECTIONS ARE NOT REQUIRED.

REINFORCING STEEL AT WALL INTERSECTIONS

DETAIL 1 / VAR

SCALE: NO SCALE

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	12	16

Douglas B. Robison 8/1/00

REGISTERED ENGINEER - CIVIL

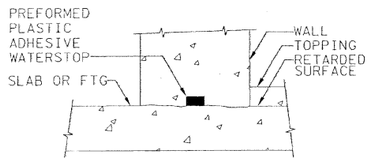
1-1-01

PLANS APPROVAL DATE

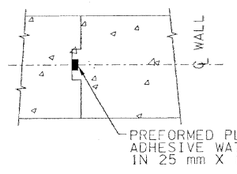
REGISTERED PROFESSIONAL ENGINEER DOUGLAS B. ROBISON No. 37109 Exp. 06-30-04 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov



TYPICAL JOIT W/ PLASTIC ADHESIVE WATERSTOP



TYPICAL KEY W/PLASTIC WATERSTOP

VERTICAL CONSTRUCTION JOINTS IN WALLS

TYPICAL CONSTRUCTION JOINTS

DETAIL 2 / VAR

SCALE: NO SCALE

GENERAL

G1 SCOPE
THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

G2 CONSTRUCTION LOADS
STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON COMPLETED STRUCTURES. STRUCTURES SHALL BE PROTECTED BY BRACING AND SHORING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR DURING CONSTRUCTION.

G3 DRAINAGE SURFACES
SLOPE DRAINAGE SURFACES UNIFORMLY TO DRAIN. SLOPE SHALL BE 6mm (2 PERCENT) EXCEPT WHERE NOTED OTHERWISE ON THE PLANS.

CONCRETE

C1 DESIGN STRESSES
A. CONCRETE f'c =28 MPa ULTIMATE COMPRESSIVE STRESS AT 28 DAYS.

C2 CONCRETE COVER
CONCRETE COVER FOR REINFORCING BARS SHALL BE 50mm FOR FORMED SURFACES UNLESS SPECIFICALLY NOTED OTHERWISE. FOOTINGS AND FOUNDATION MATS CAST ON GROUND SHALL BE 75mm.

C3 EXTRA ACCESSORY BARS
IN ADDITION TO NORMAL ACCESSORIES USED TO HOLD REINFORCING STEEL FIRMLY IN POSITION, EXTRA ACCESSORY BARS SHALL BE USED AS FOLLOWS:
A. IN SLABS #5 RAISER BARS AT 90mm O/C MAXIMUM TO SUPPORT TOP REINFORCING STEEL.
B. IN WALLS WITH TWO CURTAINS #3 U OR Z SHAPE SPACERS AT 1800mm O/C EW.

C4 SLOPING SLABS
MONOLITHIC SLABS WITH TOPS THAT ARE SLOPED SHALL HAVE BOTTOMS SLOPED THE SAME AMOUNT. MAINTAINING A UNIFORM SLAB THICKNESS, UNLESS OTHERWISE SHOWN.

C5 CHAMFERS
EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4 CHAMFERS. REENTRANT CORNERS SHALL NOT HAVE FILLETS.

STEEL

ST1 ENCASED STEEL
STEEL COMPLETELY ENCASED IN CONCRETE SHALL NOT BE GALVANIZED OR PAINTED AND SHALL HAVE A CLEAN SURFACE FOR BONDING TO CONCRETE.

ALUMINUM

A1 ALUMINUM IN CONTACT WITH CONCRETE

WHERE ALUMINUM IS IN CONTACT WITH CONCRETE OR MASONRY SURFACES, CONTACT SURFACES SHALL BE COATED WITH HEAVY ALKALI - RESISTANT BITUMINOUS PAINT.

AS-ADVERTISED

ST-4

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Patricia McCauley DESIGN OVERSIGHT 8-23-00 SIGN OFF DATE	DESIGN	BY EQ	CHECKED RN	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. N/A / KILOMETER POST 9.9
	DETAILS	BY EQ	CHECKED RN		PAXTON PILOT STORM WATER FACILITY
	QUANTITIES	BY EQ	CHECKED RN		STRUCTURAL DETAILS

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

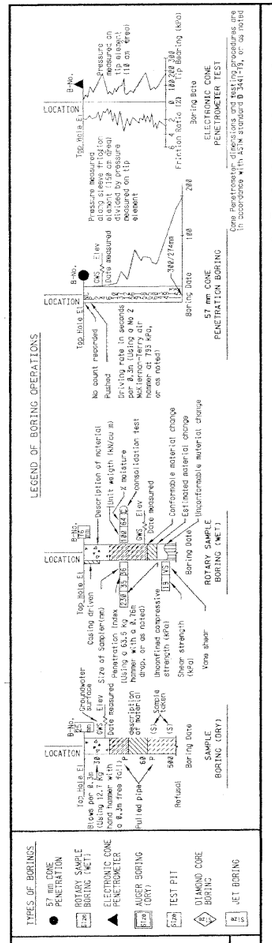
CU 07279 EA 405401

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3/00 | 6/00 | 8/00 | 8/14/00

SHEET 5 OF 9

74q5401#05of09.tif



Laboratory Testing

- (DS) Direct Shear
- (SS) Soluble Sulfate
- (SC) Soluble Chloride
- (R) R- Value
- (EL) Electrical Resistivity
- (C) Consolidation Test

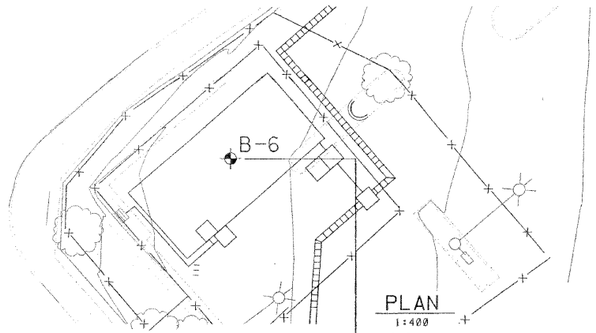
N. S. R. = No sample recovery

OVM584B Gas Readings

MC MODIFIED CALIFORNIA SAMPLER

SPT STANDARD PENETRATION SAMPLER

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov



PLAN
1:400

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	13	16

Douglas B. Robison 8/1/00
REGISTERED ENGINEER - CIVIL

1-1-01
PLANS APPROVAL DATE

LOCAL AGENCY NAME

LOCAL AGENCY ADDRESS

REGISTERED PROFESSIONAL ENGINEER — DOUGLAS B. ROBISON — No. 37109 — Exp. 06-30-04 — CIVIL — STATE OF CALIFORNIA

GROUP DELTA CONSULTANTS
TORRANCE, CA

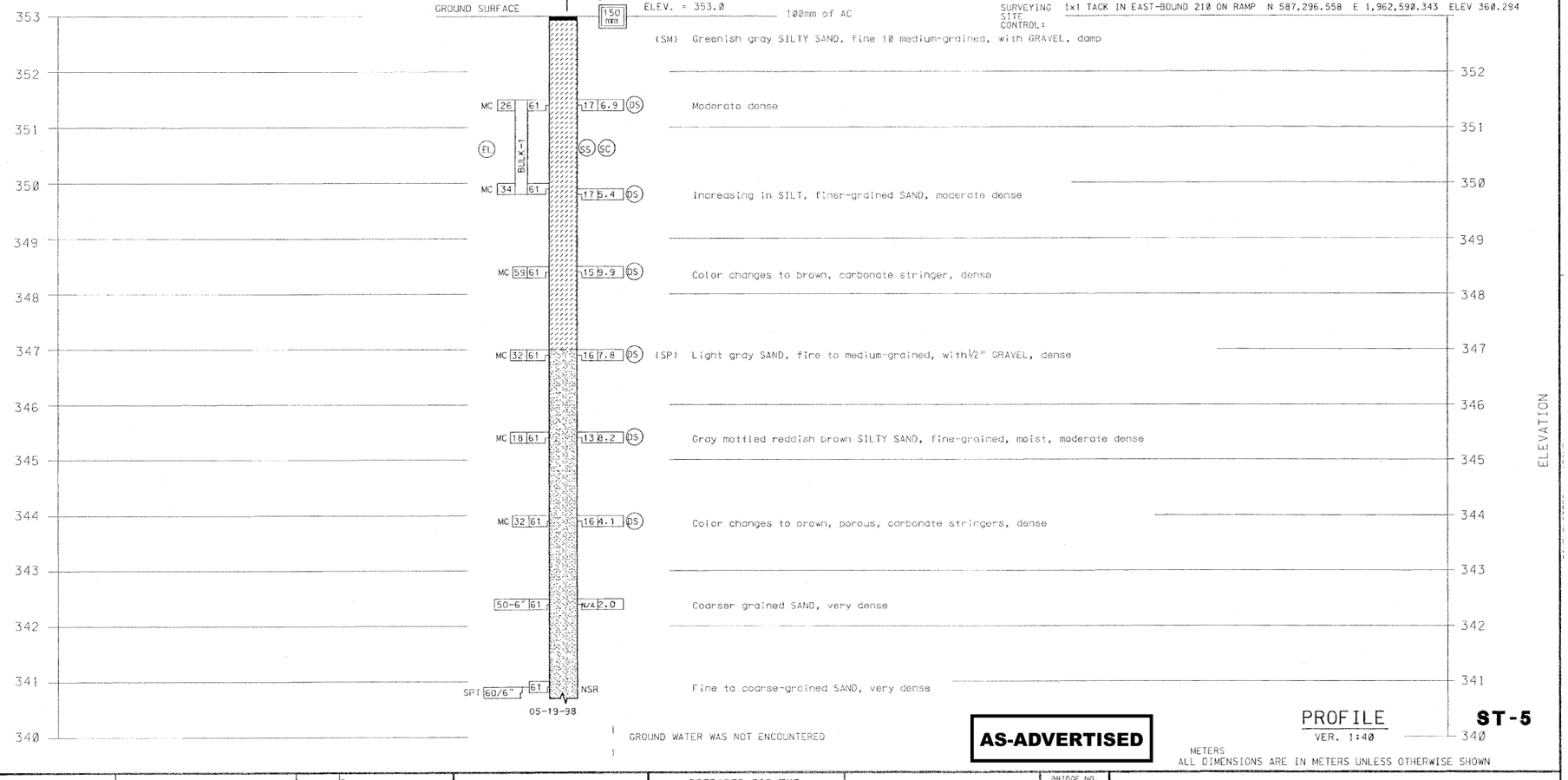
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

SAMPLERS: RELATIVLY UNDISTURBED SAMPLES WERE OBTAINED BY DRIVING A 63 mm I.D. BY 76 mm O.D. MODIFIED CALIFORNIA (MC) SPLIT BARREL SAMPLER. TWELVE 25 mm WIDE BY 61 I.D. BRASS RINGS WERE INSERTED INTO THE SPLIT BARREL. THE SAMPLER TIP WAS 61 mm I.D. BY 76 mm O.D. AND 76 mm LONG. STANDARD PENCIRATIO TEST (SPT) WERE CONDUCTED BY DRIVING A 35 mm I.D. BY 50 mm O.D. SPLIT BARREL SAMPLER 45 mm.

HAMMER: THE SAMPLES WERE DRIVEN WITH A HYDROLIC HAMMER THAT IS EQUIVALENT TO A 63.5 Kg HAMMER FREE FALLING 0.76 METERS PER ASTM D-1586.

SURVEYING SITE CONTROL: 1x1 TACK IN EAST-BOUND 210 ON RAMP N 587,296.558 E 1,962,590.343 ELEV 360.294



AS-ADVERTISED

PROFILE
VER. 1:40

ST-5

METERS
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Patricia McCauley
DESIGN OVERSIGHT
8-23-00
SIGN OFF DATE

DESIGN By NCHI NGHIEM
CHECKED By S.KOLTHOFF

FIELD INVESTIGATION BY: STEVEN H KOLTHOFF CEG 1965

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

MICHAEL D READER
PROJECT ENGINEER
GE 2259

BRIDGE NO. N/A
KILOMETER POST 9.9

PAXTON PILOT STORM WATER FACILITY
LOG OF TEST BORINGS 1 OF 1

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

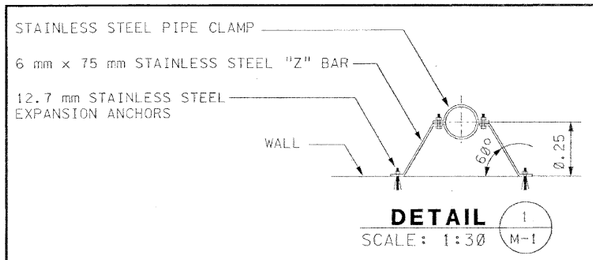
CU 07279
EA 4G5401

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

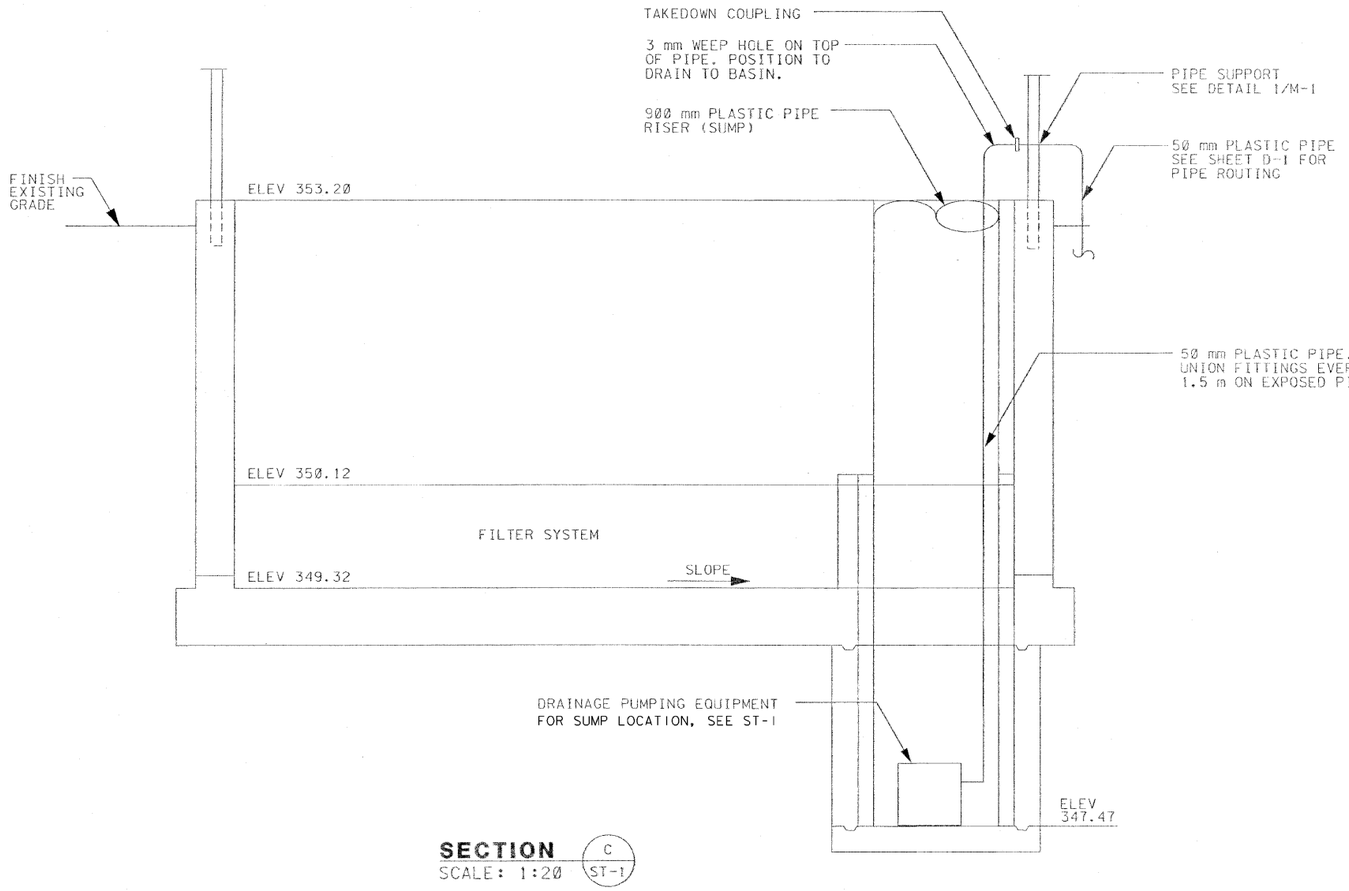
REVISION DATES (PRELIMINARY STAGE ONLY): 3/00 5/00 8/00 8/14/00

SHEET 6 OF 9

74g5401#06of09.tif



DETAIL 1 / M-1
SCALE: 1:30



SECTION C / ST-1
SCALE: 1:20

AS-ADVERTISED

M-1
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	14	16

Douglas B. Robison 8/1/00
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — DOUGLAS B. ROBISON — No. 37129 — Exp. 06-30-04 — CIVIL — STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

Patricia McCauley DESIGN OVERSIGHT 8-23-00 SIGN OFF DATE	DESIGN	BY DBR	CHECKED RMF
	DETAILS	BY DBR	CHECKED RMF
	QUANTITIES	BY DBR	CHECKED RMF

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE NO.	N/A
KILOMETER POST	9.9

PAXTON PILOT STORM WATER FACILITY
MECHANICAL DETAILS

DS OSD 2147A (METRIC) (REV. 8/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07279
EA 465401

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3/00 | 6/00 | 8/00 | 8/14/00

SHEET 7 OF 9

74g5401#07of09.tif

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	15	16

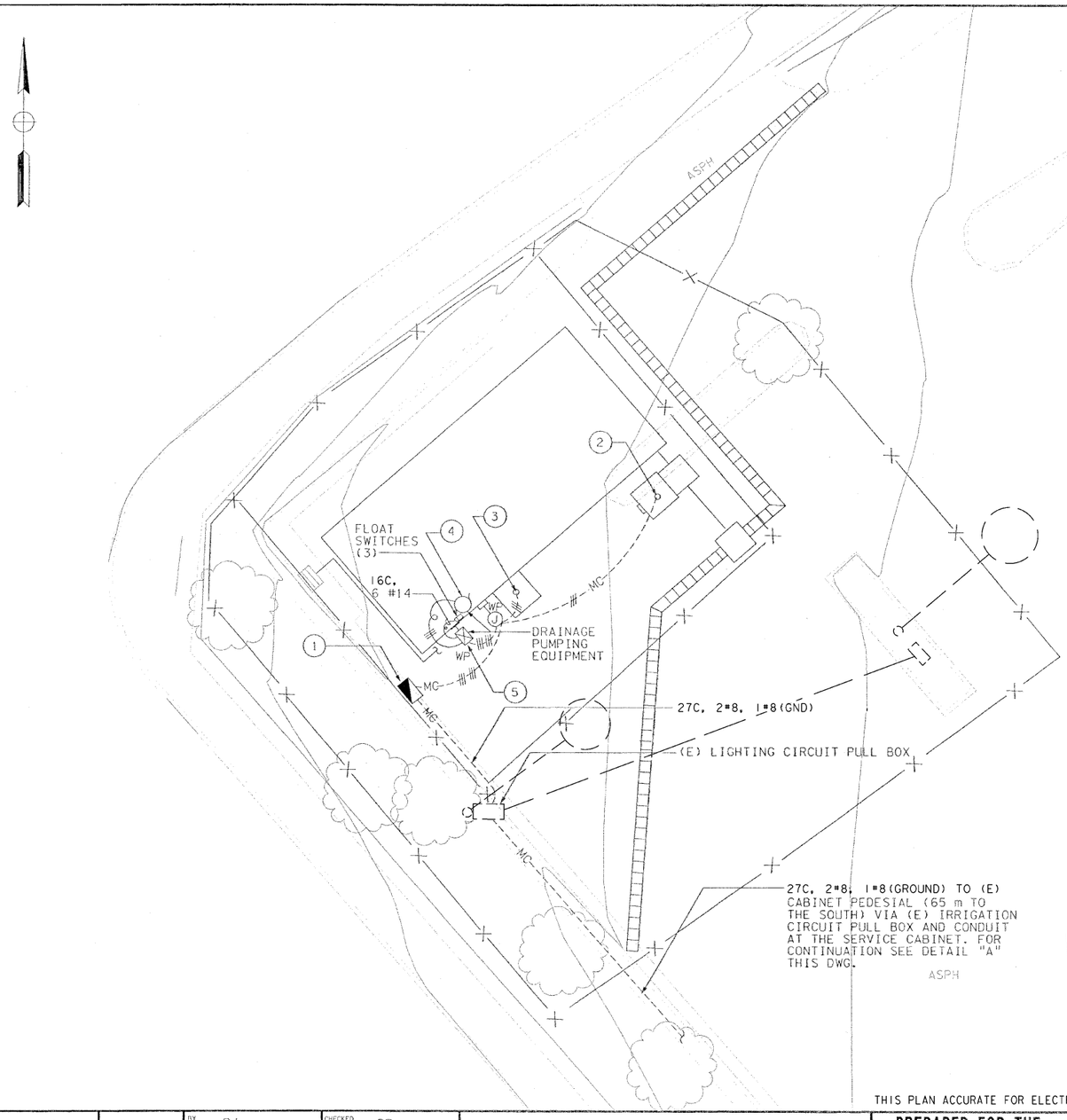
8/1/00
REGISTERED ENGINEER - CIVIL

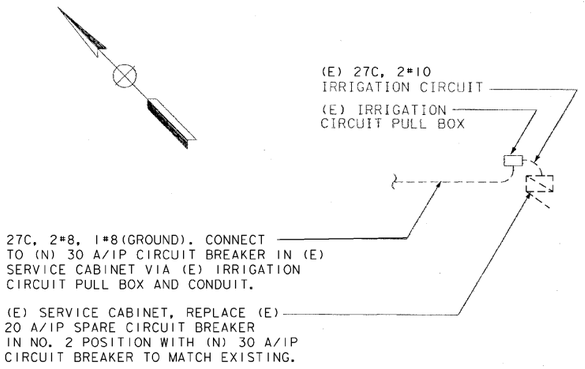
1-1-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — RAMESH L. JHURANI — No. E 8121 — Exp. 09-30-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov





DETAIL "A"
NO SCALE

AS-ADVERTISED

SCALE 1:100

E-1

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

Patricia McCauley
DESIGN OVERSIGHT
8-23-00
SIGN OFF DATE

DESIGN	BY	RJ	CHECKED	DR
DETAILS	BY	RJ	CHECKED	DR
QUANTITIES	BY	RJ	CHECKED	DR

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CU 07279
EA 4G5401

BRIDGE NO.	PAXTON PILOT STORM WATER FACILITY
N/A	
KILOMETER POST 9.9	**ELECTRICAL WORK**

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
3/00	6/00	8/00	8/14/00							8	9

74g5401#08of09.tif

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	9.9	16	16

8/1/00
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
RAMESH L. JHURANI
No. E 8121
Exp. 09-30-02
CIVIL
STATE OF CALIFORNIA

1-1-01
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

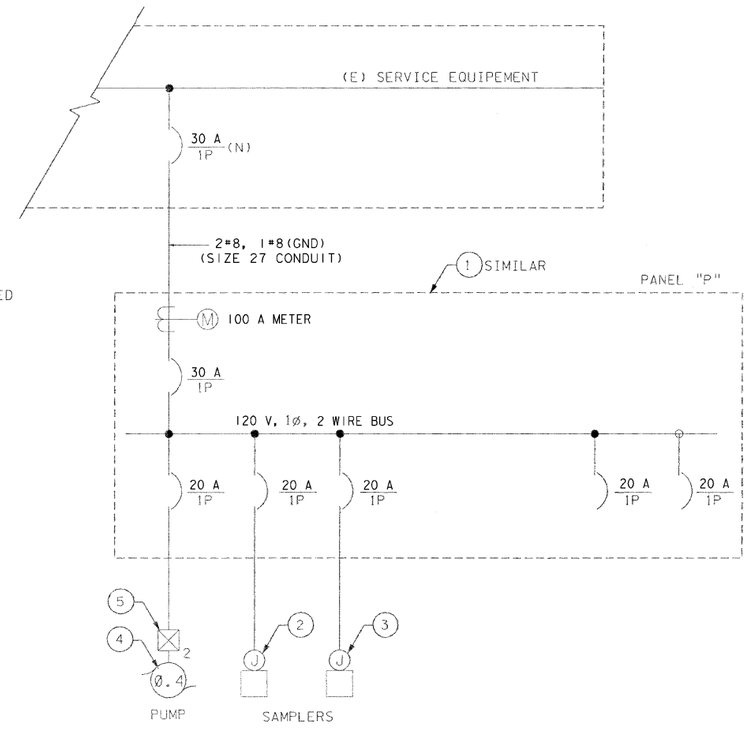
Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

LEGEND:

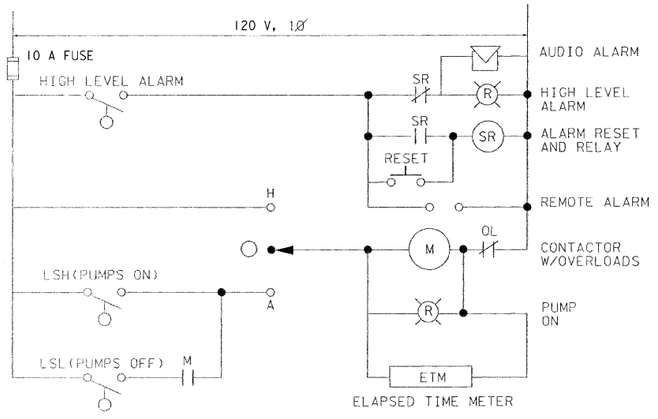
- STANCHION MOUNTED JUNCTION BOX, WEATHERPROOF
- STANCHION MOUNTED DUPLEX RECEPTACLE OUTLET, WEATHERPROOF
- EXISTING SWITCHBOARD/PANELBOARD AND CABINET
- (E) EXISTING ELECTRICAL EQUIPMENT
- CROSS LINES INDICATES NUMBER OF #12 AWG. NO CROSS LINES INDICATES 2# 12 AWG, UNLESS OTHERWISE NOTED. ALL CONDUIT 6C UNLESS OTHERWISE NOTED
- P-1, 3 HOMERUN TO PANELBOARD CIRCUIT NUMBERS 1 AND 3
- ---- MC ---- CONDUIT, METALIC UNDERGROUND
- -----E ---- EXISTING CONDUIT TO REMAIN
- STANCHION MOUNTED CONTROL PANEL WITH MOTOR STARTER FOR THE PUMP, WEATHERPROOF
- PUMP MOTOR WITH FLOAT SWITCHES
- 100A / 3P THERMAL MAGNETIC BREAKER TRIP RATING AND NUMBER OF POLES INDICATED
- CONTROL PANEL WITH MOTOR STARTER. NEMA SIZE INDICATED
- (N) NEW ELECTRICAL EQUIPMENT
- H / A HAND-OFF-AUTOMATIC SENEPOR SWITCH

NOTES:

1. TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH PROVISIONS FOR ONE 100 A METER, 100 A, 120 V, 1-PHASE, 2-WIRE 12-CIRCUIT PANELBOARD "P" WITH 30 A/1P MAIN, 5-20 A/1P BRANCH CIRCUIT BREAKERS
2. FOR CONNECTION OF INFLUENT/IN-FLOW SAMPLER AND FLOW METER
3. FOR CONNECTION OF EFFLUENT/OUT FLOW SAMPLER AND FLOW METER
4. PUMP MOTOR WITH FLOAT SWITCHES
5. CONTROL PANEL WITH NEMA SIZE 1, 240 V, 1-PHASE MOTOR STARTER WITH H-O-A (HAND-OFF-AUTOMATIC) SWITCH FOR FLOAT CONTROL



SINGLE LINE DIAGRAM



TYPICAL PUMP CONTROL SCHEMATIC

AS-ADVERTISED

NO SCALE

E-2

Patricia McCauley
DESIGN OVERSIGHT
8-23-00
SIGN OFF DATE

DESIGN	BY RJ	CHECKED DR	
DETAILS	BY RJ	CHECKED DR	
QUANTITIES	BY RJ	CHECKED DR	

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO.	N/A
KILOMETER POST	9.9

PAXTON PILOT STORM WATER FACILITY

ELECTRICAL WORK

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07279
EA 4G5401

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
3/00	6/00	8/00	8/14/00							9	9

74g5401#09of09.tif