

LOCATION

201 San Antonio Rd. VALUES 3,000

LOT

~~27~~ 66

BLOCK

Dwelling & Garage 4-B.

TRACT

12506

OWNER

Gower Co.

BUILDING

Aetna Const. Co.

11-12-41

6236

PLUMBING

Silverberg Plumb. Co.

12-27-41

9343

HEATING

W. R. Dignas

1-14-42

9508

SEPTIC
CESSPOOL

O. A. Baker

2-10-42

9618

WIRING

Sampson Electric Co.

1-30-42

8056

FIXTURES

F. W. Smith

4-16-42

8346

ELECTRIC

5-9-42 (2359) GAS 5-9-42

(1379) PLAN NO.

Date	Description	Contractor	Amount
1/14/49	add to Dwg -	self	12117
1/27/49	Wire	Self	16994
"	Fix	"	16994
"	heater	"	18335
1/12/49	SEWER Con (Radich)		1446

Robert A. Fiorini
 2-1-60 Curb & Approach (Owner) 5785

LOCATION

201 SAN ANTONIO RD

VALUES

1446

8/12/45

LOT

66 BLOCK

TRACT

12506

OWNER

L. TREECE

BUILDING

RADICH CO

OH

PLUMBING



40

8/12/45

can

HEATING

SEPTIC

CESSPOOL

WIRING

FIXTURES

ELECTRIC

GAS

PLAN NO.

LOCATION

1/14/49

OWNER

201 San Antonio Rd. Lorraine Treese

Add to Reg:	PERMIT	INSPECTED	REMARKS
POWER POLE			
FORMS	12117	1-19-49	900
RO. PLUMB.			
GAS			
SEWER			
FURNACE	18335	1-9-49	10
RO. WIRE	16694	1-10-49	10
CURB			
FRAME		1-8-49	10
LATH		1-16-49	10
ELEC. FIX.	16694		10
PLUMB FIX.			
ELECTRIC			GAS

Meter Change 2/4/49 7012

It was in attic to be
strapped 6 ft. 8 inch. high.
1" square concrete minimum
size 2-8-64.

LOCATION 201 San Antonio Rd. VALUE \$3,000

Dwelling & Garage 4-B.

LOT ~~27~~ 66 BLOCK TRACT 12506

OWNER Gomer Co.

BUILDING	Retna Const. Co.	11-12-41	6236
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PLUMBING	Wassberg Plumt. Co.	12-27-41	9343
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HEATING	H. R. Owens	1-14-42	9508
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SEPTIC-CESSPOOL	D. A. Baker	2/10/42	9618
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WIRING	Lambson Elect Co.	1-30-42	8056
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FIXTURES	L. W. Smith	5-9-42	8346
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ELECTRIC 5-9-42 (2359) GAS 5-9-42 (1379) PLAN NO.

LOCATION 201 SAN ANTONIO RD

LOT 66 BLOCK

TRACT 12506

OWNER L. TREECE

PERMIT NO.

INSPECTED

BY

CONTRACTOR RADICH CO

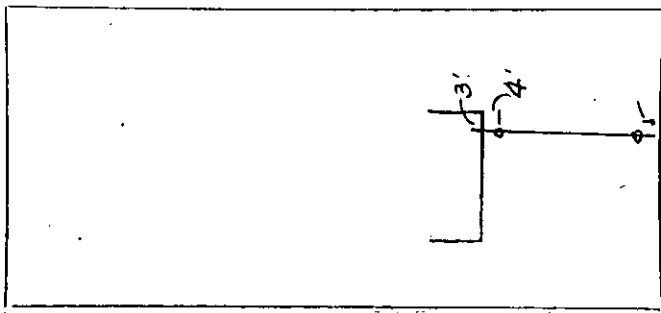
1446

8-12-49

EDC

CONTRACTOR

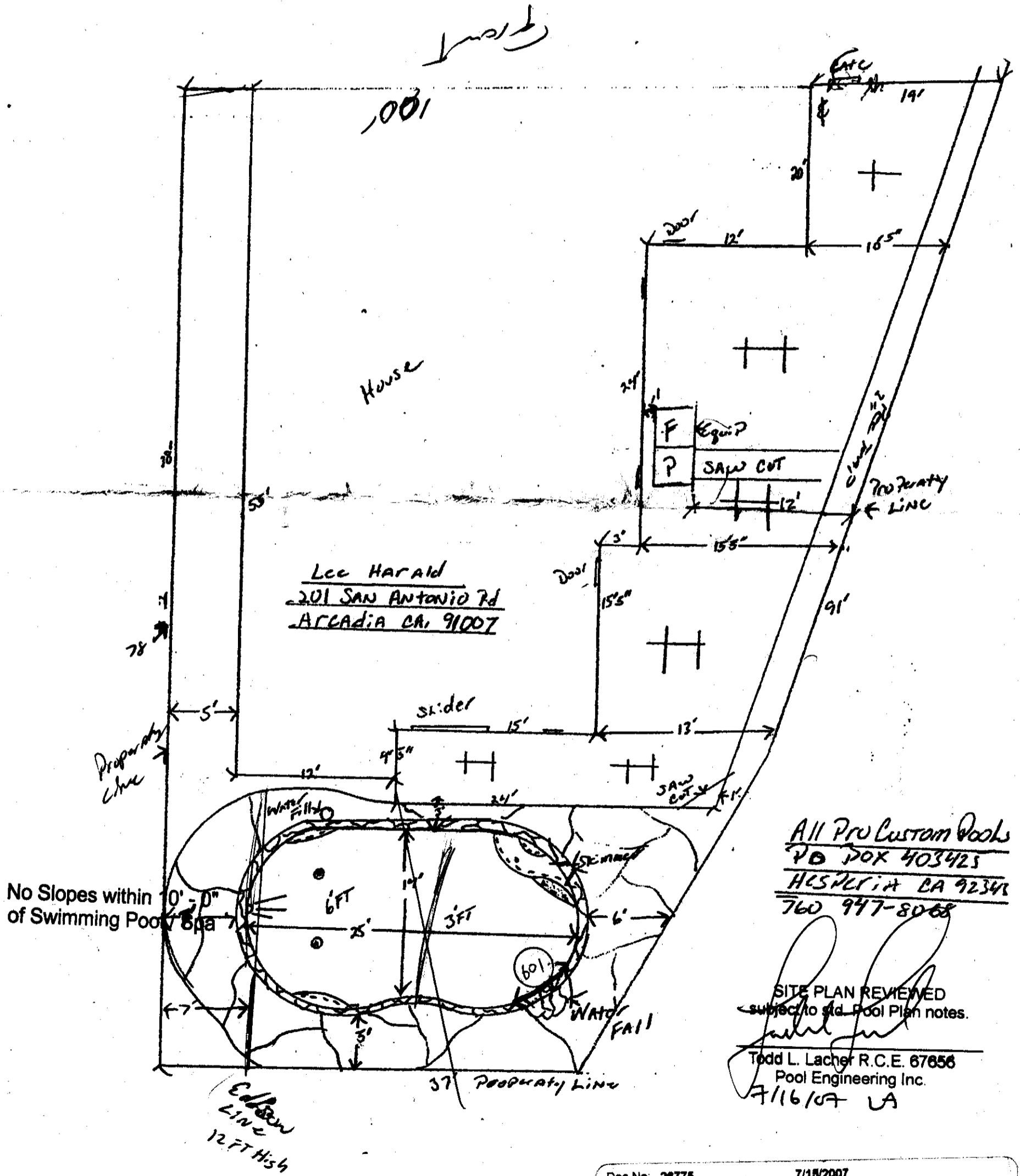
LENGTH 40 FT.



300-028-026

ROUTING	Date and Initials of Checker	ACTION			*See Notes on Sheet#
		Approval	Conditional Approval*	Corrections Required*	
Planning	7-19-07 TL	X			
A.R.A.					
Eng.	7-19-07 Am	X			
Building					
Fire					
PWS-Water					
PWS-NPDES					

"FENCE/GATES/ALARMS PER CITY STANDARD"



All Pro Custom Pools
PO BOX 403425
HESPERIA CA 92348
760 947-8068

SITE PLAN REVIEWED
subject to std. Pool Plan notes.

Todd L. Lacher R.C.E. 67656
Pool Engineering Inc.
7/16/07 LA

Doc No: 26775 7/15/2007
Name: Harald Naddad
Address: 201 San Antonio Rd
Arcadia, CA 91007-3003
Cont: All Pro Custom Pools

CALCULATIONS

METHODOLOGY:

(SURCHARGE LOADING BASED ON BOUSSINESQ METHOD, MODIFIED BY TERZAGI)

γ = EQUIVALENT FLUID PRESSURE

$$OTM = 1/6 \gamma H^3 + \sum [(P)(r)]$$

WHERE γ = 45 p.c.f. AND

$$P_i = 1/2 (\sigma_i + \sigma_{i-1}) (6 \text{ in})$$

r_i = VERTICAL DIST. FROM P_i TO z DEPTH.

NET MOM = OTM - RESISTING MOMENT

$$f_s = \frac{M(12 \text{ in/ft})}{A_s j d} = \frac{M(12)}{A_s (0.887) d}$$

$$f_c = \frac{M(2) 12 \text{ in/ft}}{j k b d^2} = \frac{M(2)(12)}{(0.887)(0.339)(12) d^2} < 900 \text{ psi}$$

$$v_c = \frac{(1/2) \gamma H^2}{(12 \text{ in/ft}) j d} = \frac{\gamma H^2}{(2)(12)(0.887) d} < 49 \text{ psi}$$

$$f_c = 2,000 \text{ p.s.i.}$$

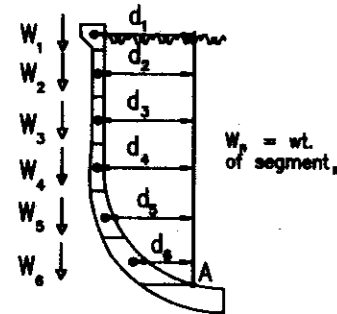
$$F_s = 20,000 \text{ p.s.i.}$$

$$f_c = 0.45 f_c = 900 \text{ p.s.i.}$$

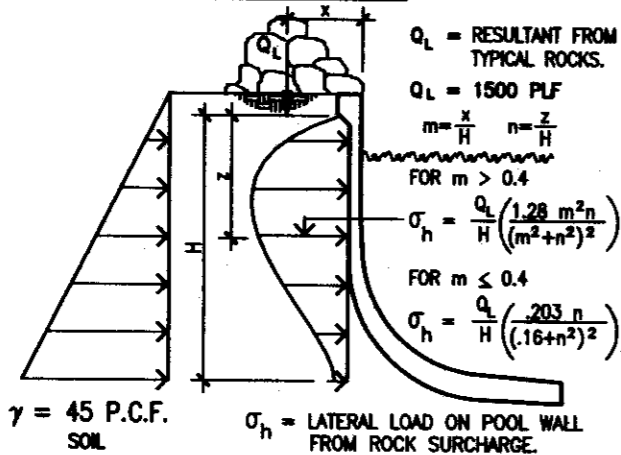
$$v_c = 1.1 \sqrt{f_c} = 49 \text{ p.s.i.}$$

RESISTING MOMENT:

RESISTING MOMENT ABOUT POINT A
 $RM = W_1 d_1 + W_2 d_2 + \dots + W_n d_n$



LOADING DIAGRAM:



CALCULATION RESULTS:

1500 P.L.F. ROCK FORMATION SURCHARGE
 EXPANSIVE SOIL
 EQUIVALENT FLUID PRESSURE = 45 P.C.F.
 RESULTS FOR NO RAISED BOND BEAM

DEPTH 'D'	SOIL OTM ft-#	LOAD OTM ft-#	SOIL RM ft-#	NET Mom	t	VERTICAL STEEL	f _s p.s.i.	f _c p.s.i.	v _c p.s.i.
2'-0"	60	177	74	220	5 1/2"	#3 @ 12"	11305	347	14.2
3'-0"	203	501	92	746	6"	#3 @ 6"	16114	662	20.5
4'-0"	480	977	124	1548	7"	#3 @ 4"	16536	722	21.5
5'-0"	938	1569	237	2523	7 1/2"	#3 @ 3"	18019	869	24.6
6'-0"	1620	2242	497	3541	8 1/2"	add 2 #4	18176	842	25.1
7'-0"	2573	2974	1027	4520	9 1/2"	"	19319	806	25.6
8'-0"	3840	3748	2217	5371	10 1/2"	"	19652	750	25.8
8'-6"	4606	4146	4738	4015	10 1/2"	"	14690	561	27.9

RESULTS FOR 2'-6" MAX. RAISED BOND BEAM

HEIGHT 'H'	SOIL OTM ft-#	LOAD OTM ft-#	SOIL RM ft-#	NET Mom	t	VERTICAL STEEL	f _s p.s.i.	f _c p.s.i.	v _c p.s.i.
2'-0"	60	114	74	220	5 1/2"	#3 @ 12"	11305	347	14.2
3'-0"	203	341	92	746	6"	#3 @ 6"	16114	662	20.5
4'-0"	480	701	116	1561	7"	#3 @ 4"	16668	728	21.5
5'-0"	938	1177	145	2660	8"	#3 @ 3"	16927	764	22.1
6'-0"	1620	1745	183	4050	9"	add 2 #4	18893	828	22.9
7'-0"	2573	2385	296	5344	10 1/2"	"	19555	747	22.0
7'-6"	3164	2726	419	5924	10 1/2"	add 3 #4	15844	737	23.8
8'-6"	4606	3443	848	7293	11"	"	18185	812	26.1
10'-0"	7500	4586	2378	9707	12 1/2"	add 2 #5	19595	807	27.7
11'-0"	9983	5381	7150	8213	13"	"	15683	626	30.4

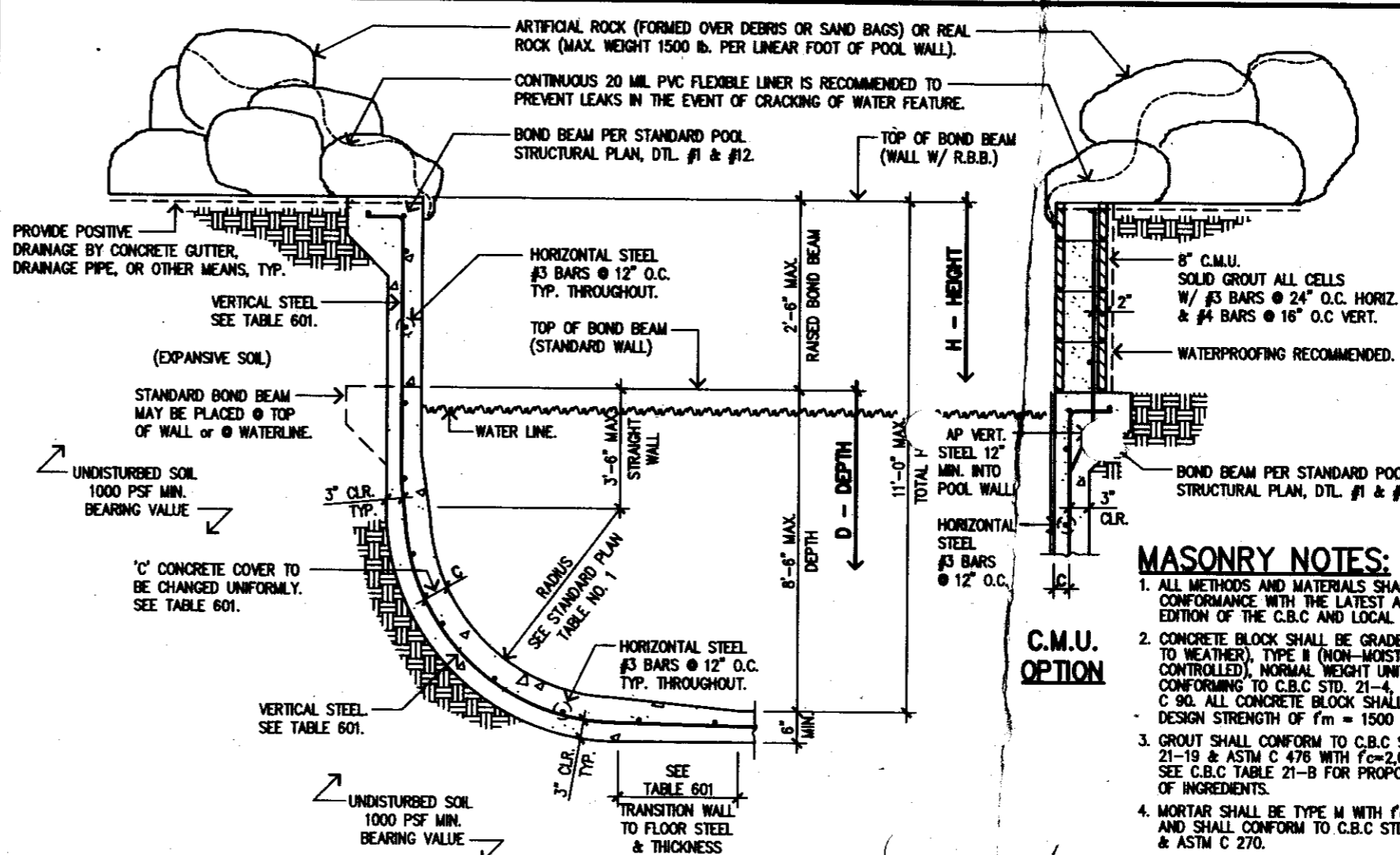


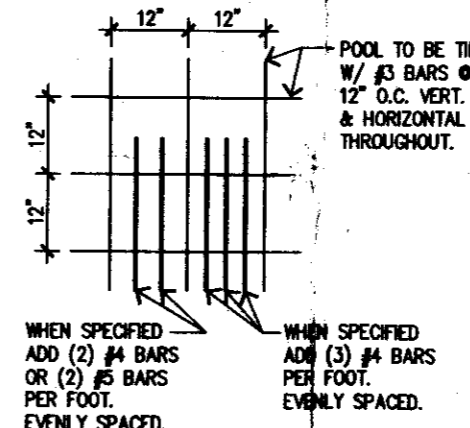
TABLE 601

'D' OR 'H' IS DISTANCE FROM TOP OF POOL WALL DOWNWARD.
 BEGIN SPECIFIED STEEL & GUNITE THICKNESS AT INDICATED 'D' OR 'H' DEPTH.
 (SEE STANDARD STRUCTURAL PLAN, DETAIL #4)

POOL DEPTH	NO RAISED BOND BEAM		REQ'D TRANS.	TOTAL HEIGHT	2'-6" MAX. R.B.B.		REQ'D TRANS.
	D	C			H	C	
0 to 1'6"	2 1/2"	#3 @ 12"	2'-0"	0 to 1'6"	2 1/2"	#3 @ 12"	2'-0"
2'-0"	2 1/2"	#3 @ 6"	2'-0"	2'-0"	2 1/2"	#3 @ 6"	2'-0"
2'-6"	3"	"	2'-0"	2'-6"	3"	"	2'-0"
3'-0"	3"	#3 @ 4"	2'-0"	3'-0"	3"	#3 @ 4"	2'-0"
3'-6"	4"	"	2'-0"	3'-6"	4"	"	2'-0"
4'-0"	4"	#3 @ 3"	2'-0"	4'-0"	4"	#3 @ 3"	2'-0"
4'-6"	4 1/2"	"	2'-4"	4'-6"	4 1/2"	"	2'-4"
5'-0"	4 1/2"	add 2 #4	2'-6"	5'-0"	5"	add 2 #4	2'-10"
6'-0"	5"	"	2'-9"	6'-0"	5 1/2"	"	3'-9"
6'-6"	5"	"	2'-9"	6'-6"	6 1/2"	add 3 #4	4'-2"
7'-0"	6"	"	2'-11"	7'-0"	7"	"	4'-5"
8'-0"	7"	"	2'-9"	8'-0"	7"	"	4'-4"
8'-6"	7"	"	2'-9"	8'-6"	7"	"	4'-4"
9'-0"	8"	add 2 #5	4'-2"	9'-0"	8"	add 2 #5	4'-2"
10'-0"	9"	"	4'-0"	10'-0"	9"	"	4'-0"
10'-6"	9 1/2"	"	3'-11"	10'-6"	9 1/2"	"	3'-11"
11'-0"	9 1/2"	"	3'-11"	11'-0"	9 1/2"	"	3'-11"

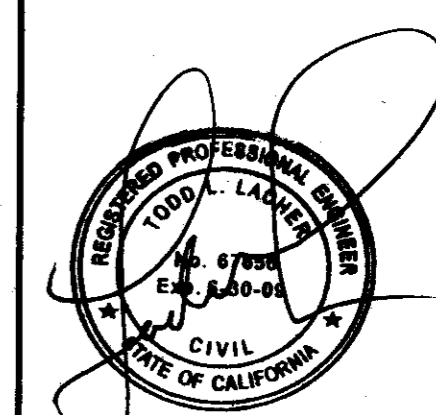
*NOTE: REAL ROCK ONLY.
 REAL ROCK SHALL BE PLACED DIRECTLY ON A MORTAR BED TO PREVENT SLIDING AND ROTATION. ROCKS WITH A DIAMETER LESS THAN 1'-6" SHALL BE EMBEDDED A MINIMUM OF 1" INTO MORTAR. ROCKS WITH A DIAMETER GREATER THAN 1'-6" & LESS THAN 3'-0" SHALL BE EMBEDDED A MIN. OF 2" INTO MORTAR. WHEN THE DIAMETER OF THE ROCKS EXCEED 3'-0", CONTACT POOL ENGINEERING.

ADD BARS REINFORCING DIAGRAM



MASONRY NOTES:

- ALL METHODS AND MATERIALS SHALL BE IN CONFORMANCE WITH THE LATEST ADOPTED EDITION OF THE C.B.C AND LOCAL ORDINANCES.
- CONCRETE BLOCK SHALL BE GRADE N (EXPOSED TO WEATHER), TYPE II (NON-MOISTURE CONTROLLED), NORMAL WEIGHT UNITS (135 PCF), CONFORMING TO C.B.C STD. 21-4, AND ASTM C 90. ALL CONCRETE BLOCK SHALL HAVE A DESIGN STRENGTH OF $f_m = 1500$ psi.
- GROUT SHALL CONFORM TO C.B.C STD. NO. 21-19 & ASTM C 476 WITH $f_c = 2,000$ PSI. SEE C.B.C TABLE 21-B FOR PROPORTIONS OF INGREDIENTS.
- MORTAR SHALL BE TYPE M WITH $f_c = 1800$ psi AND SHALL CONFORM TO C.B.C STD. NO. 21-15 & ASTM C 270.
- ALL REINFORCING BARS SHALL BE COMPLETELY EMBEDDED IN MORTAR OR GROUT AND SHALL HAVE A COVER OF NOT LESS THAN 2 INCHES.



DATE: 8/8/06
 CALCS BY: A.C.
 CHECKED BY: R.L.L.

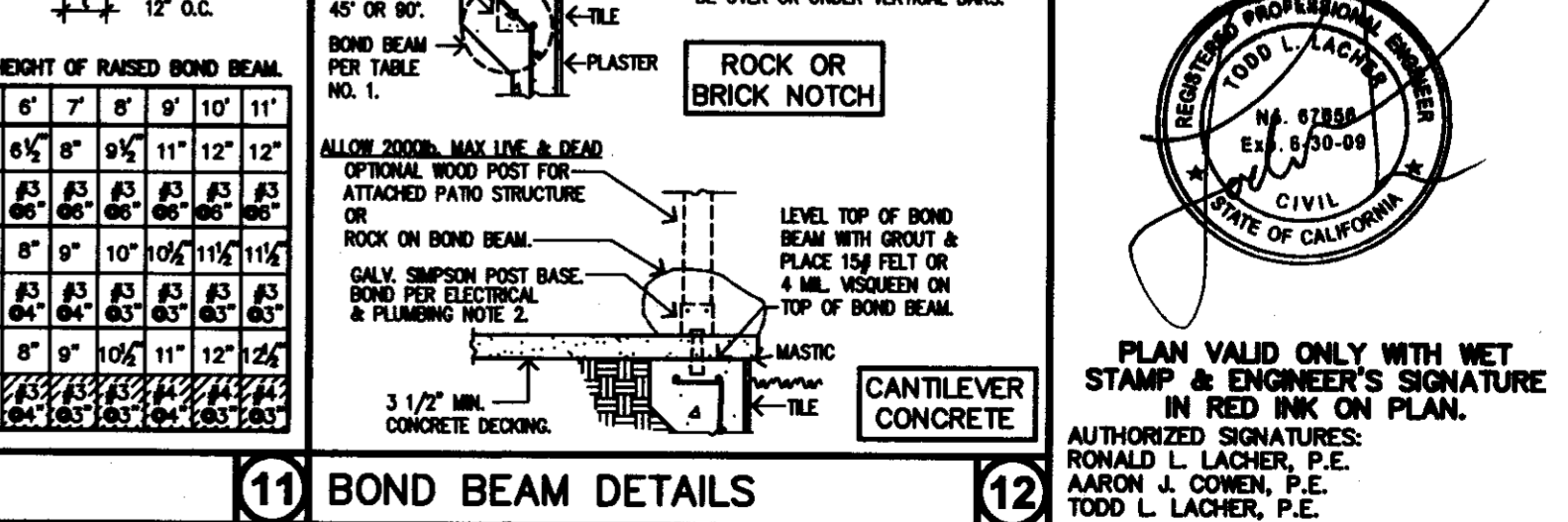
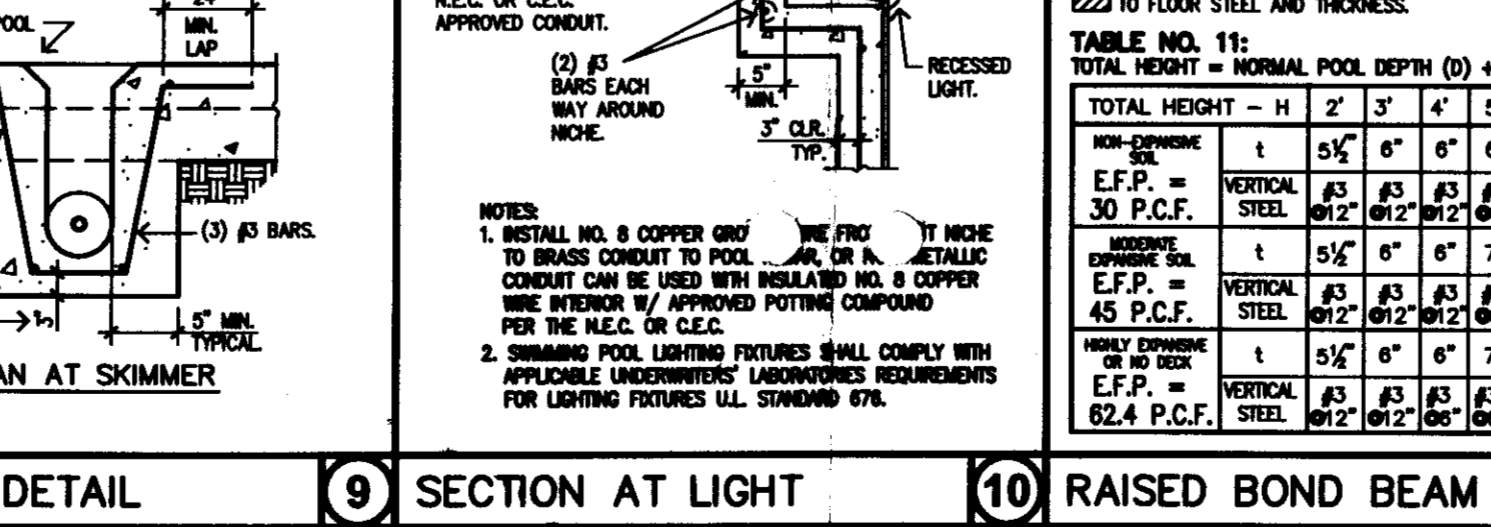
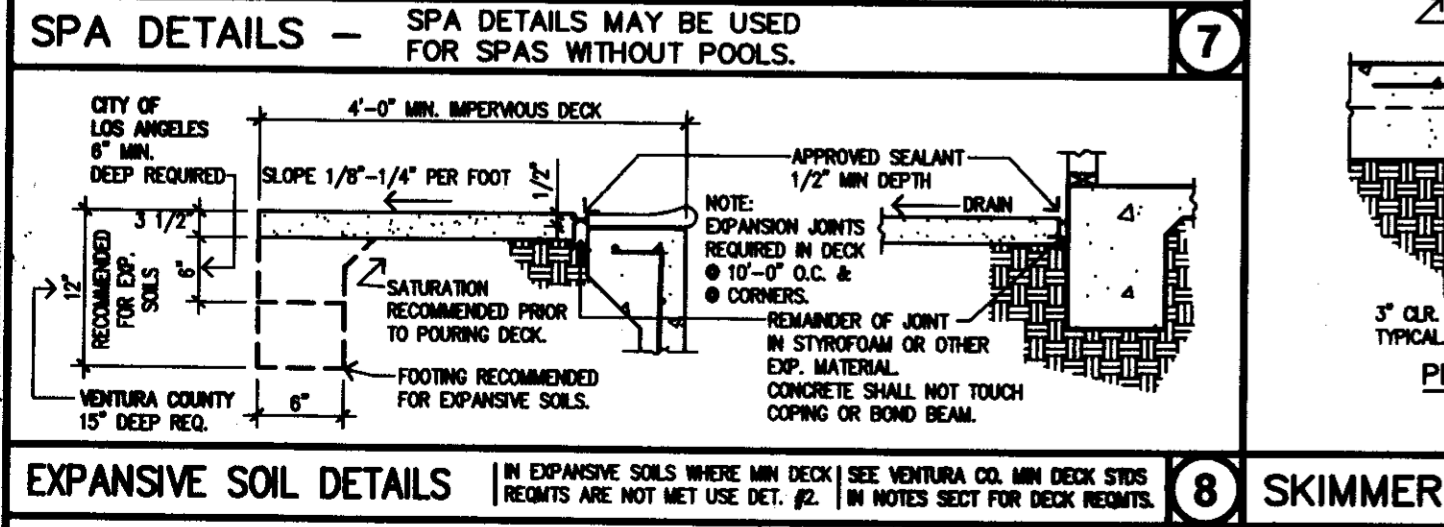
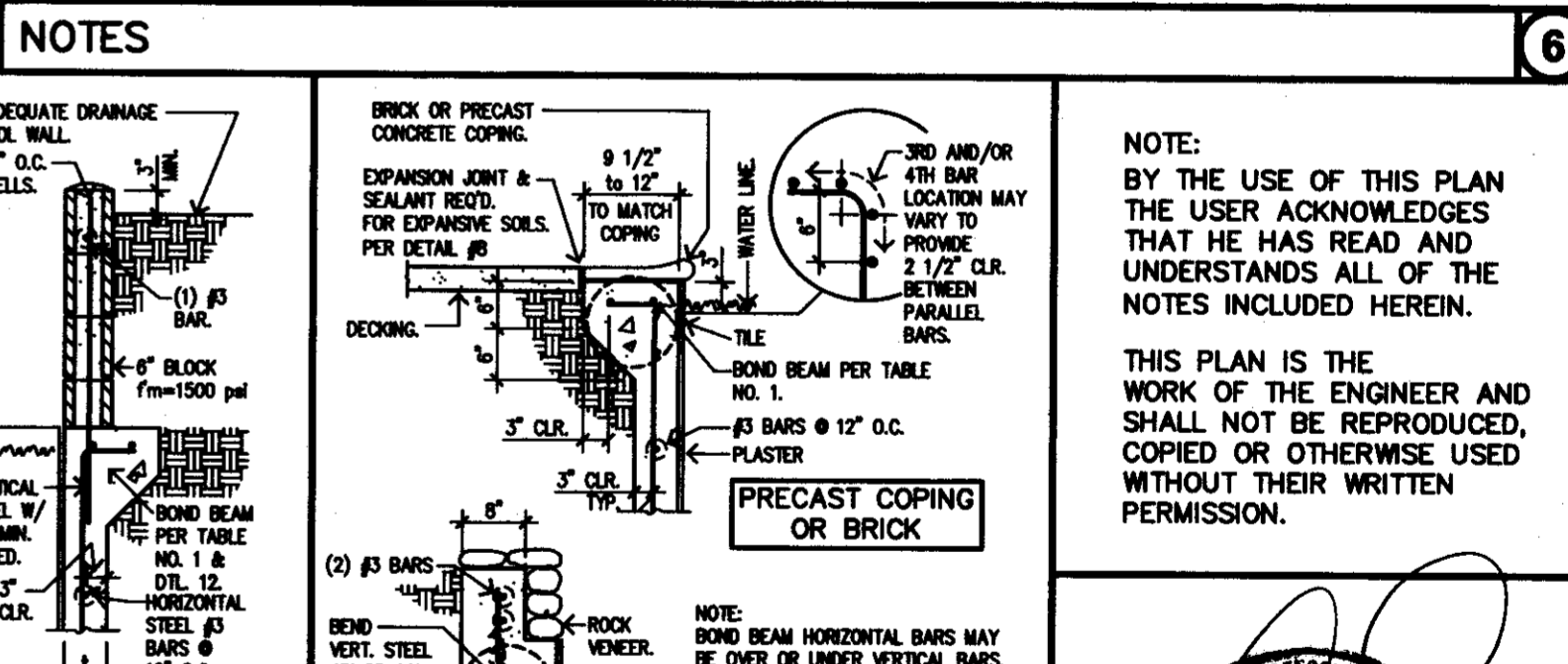
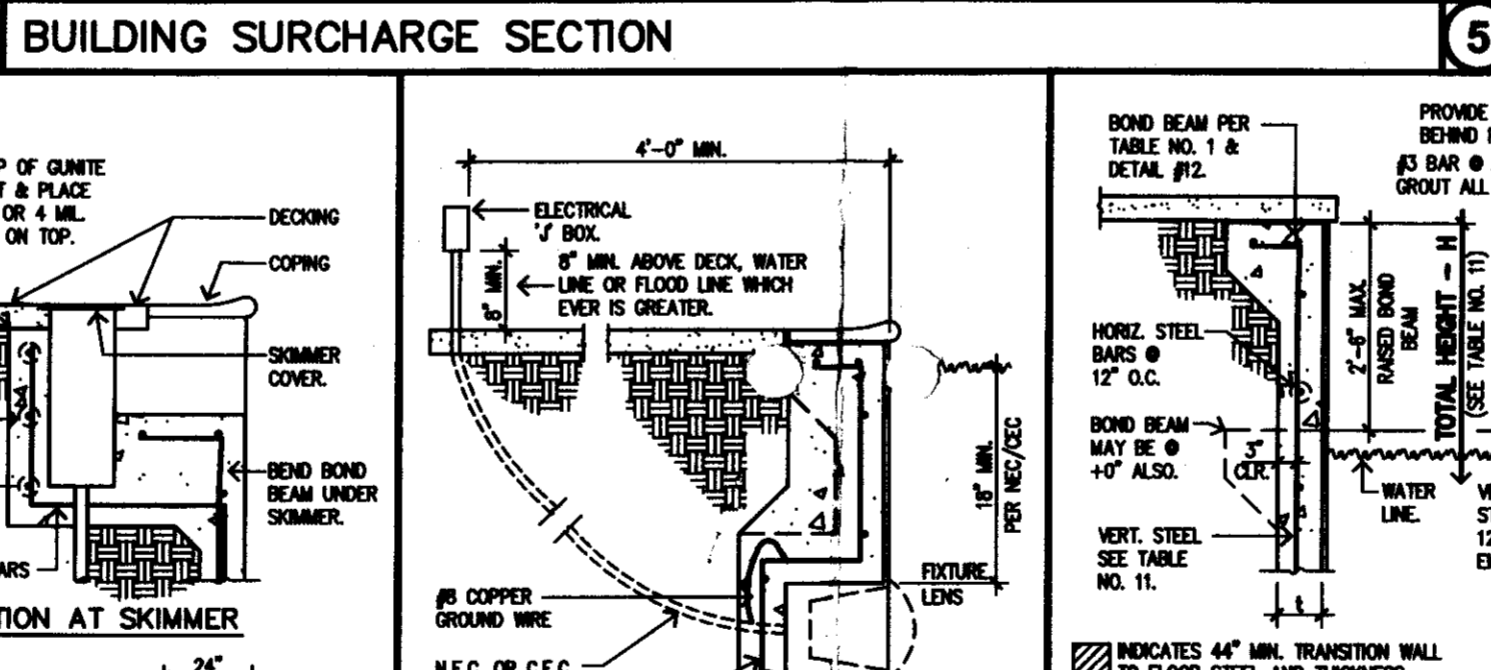
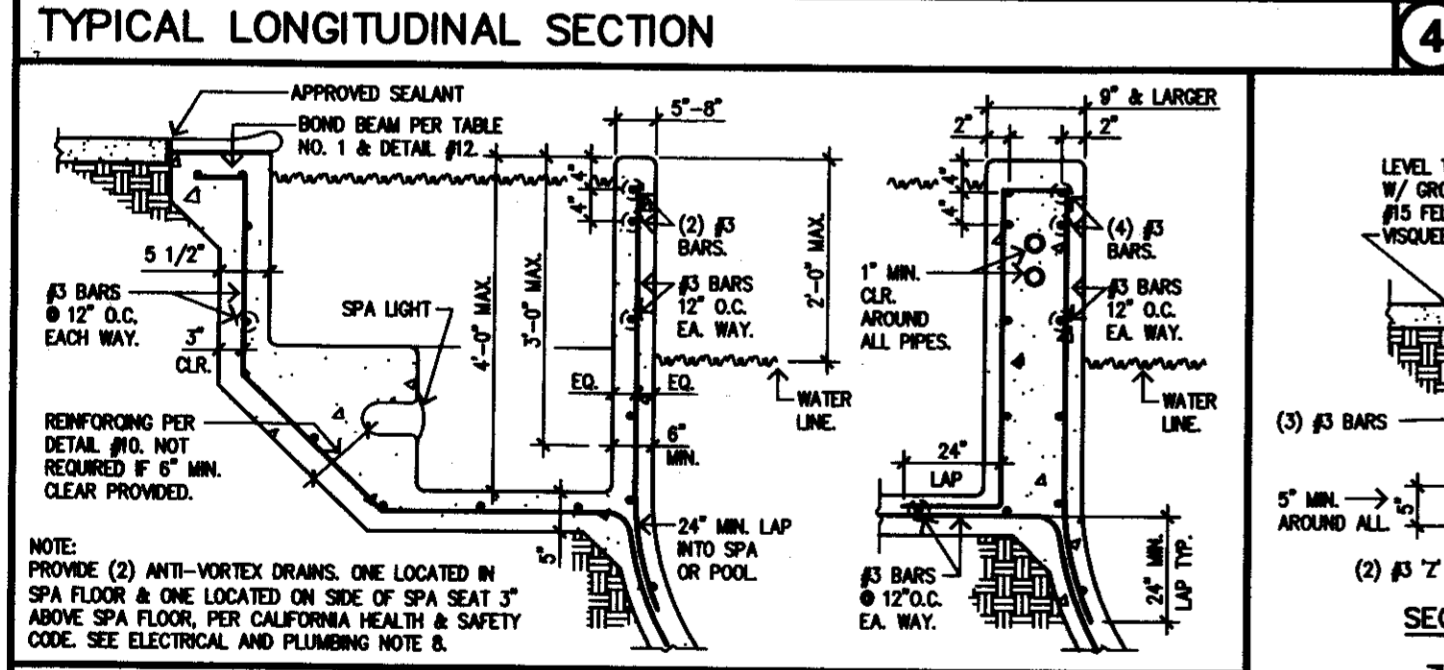
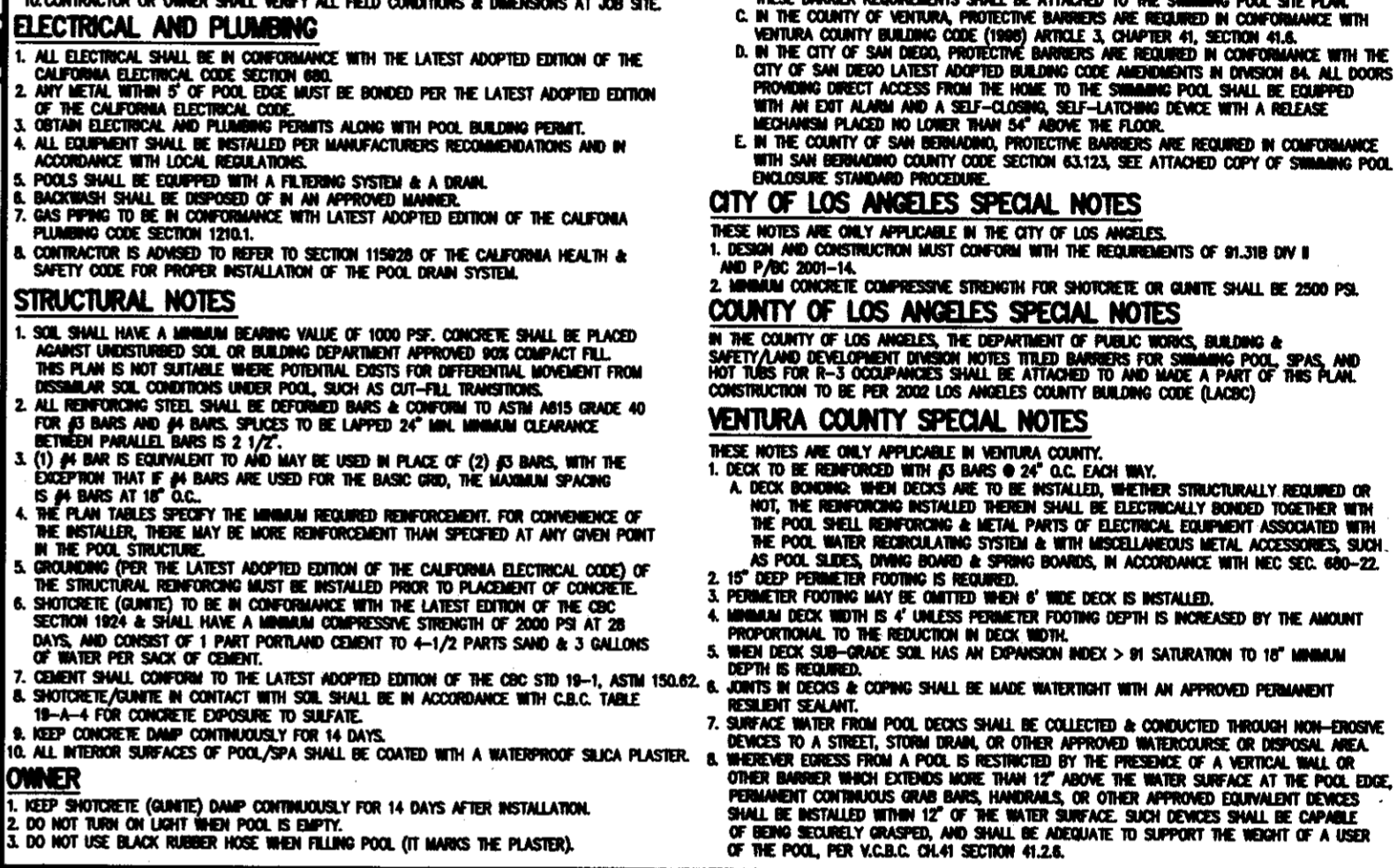
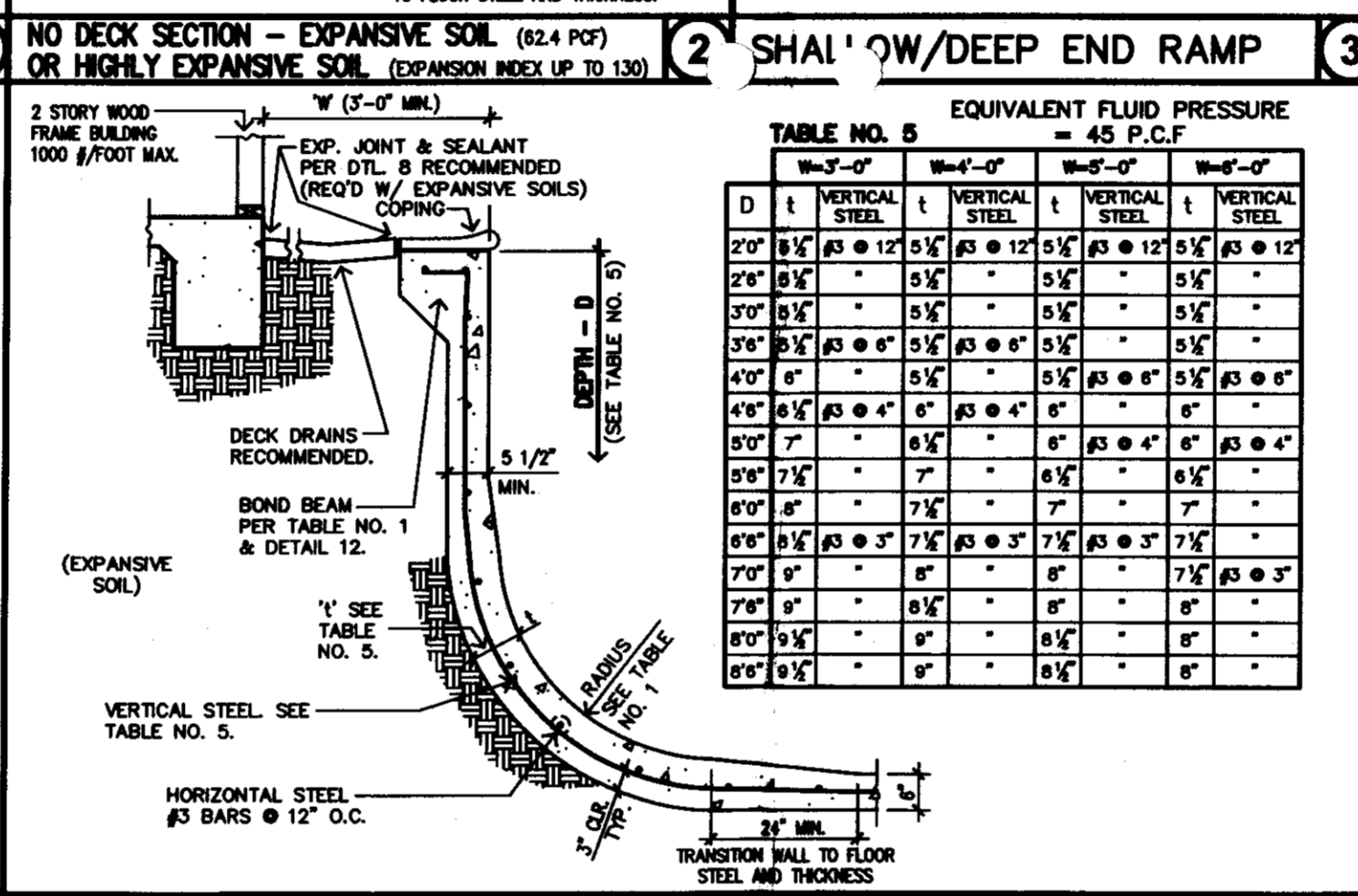
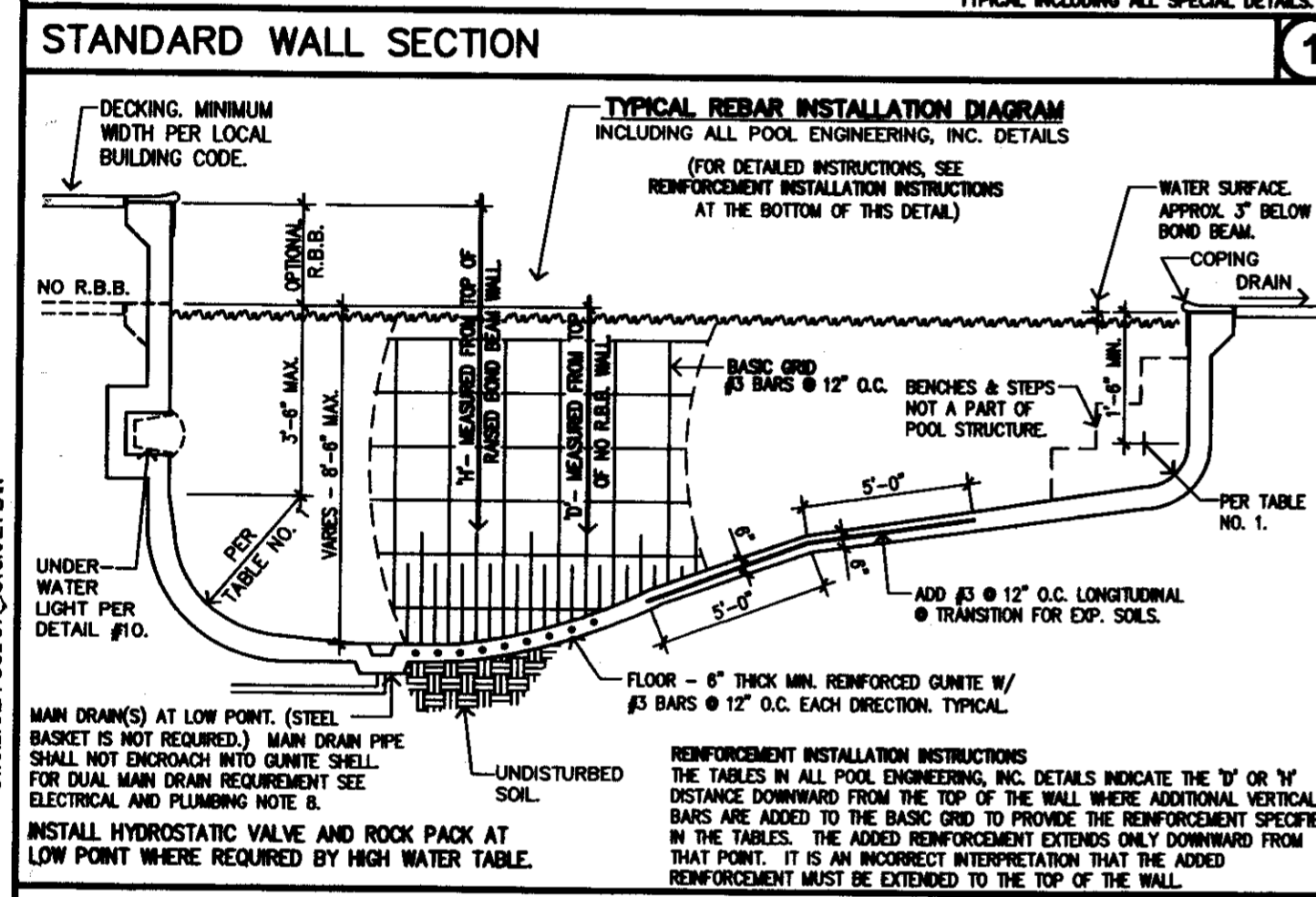
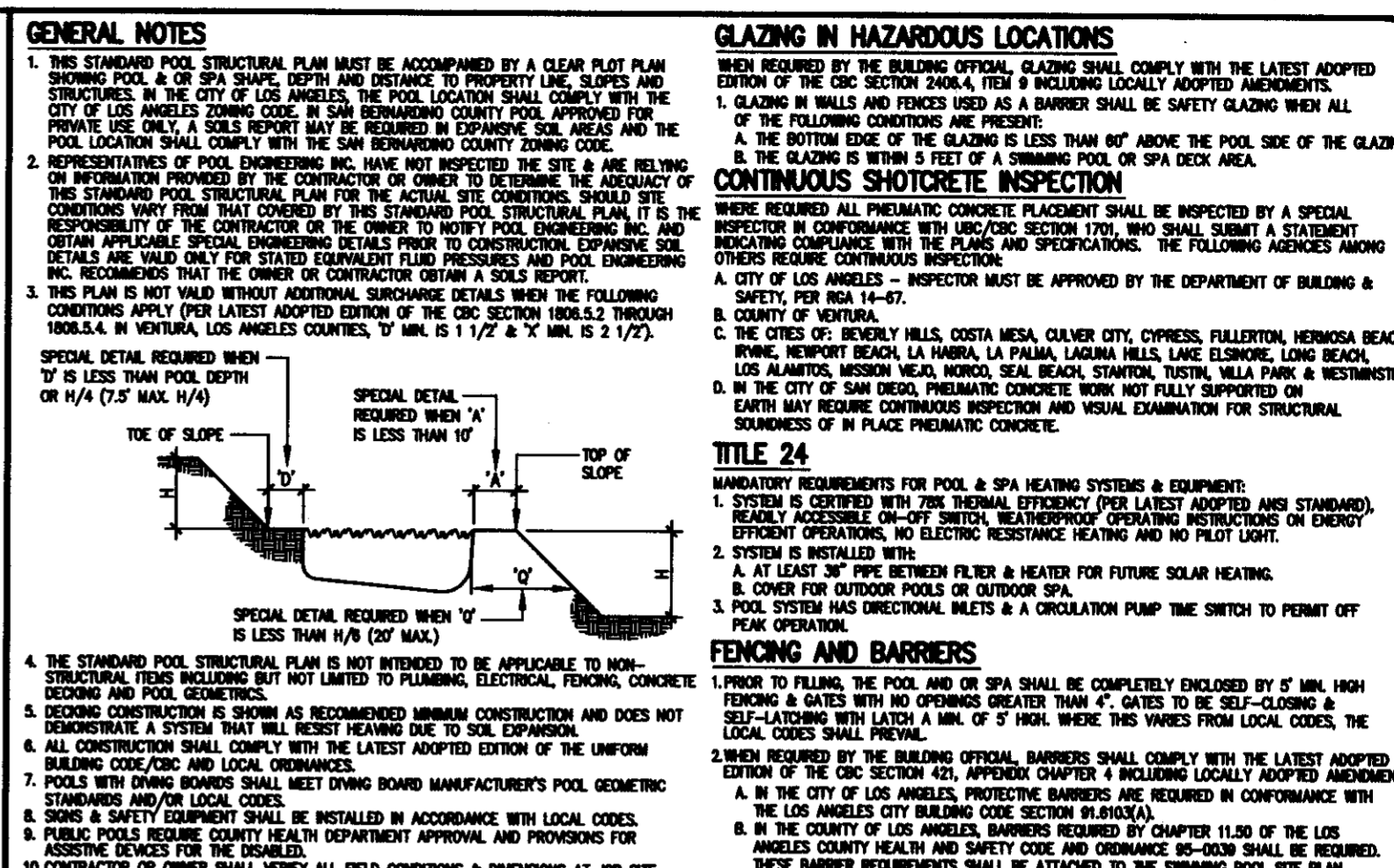
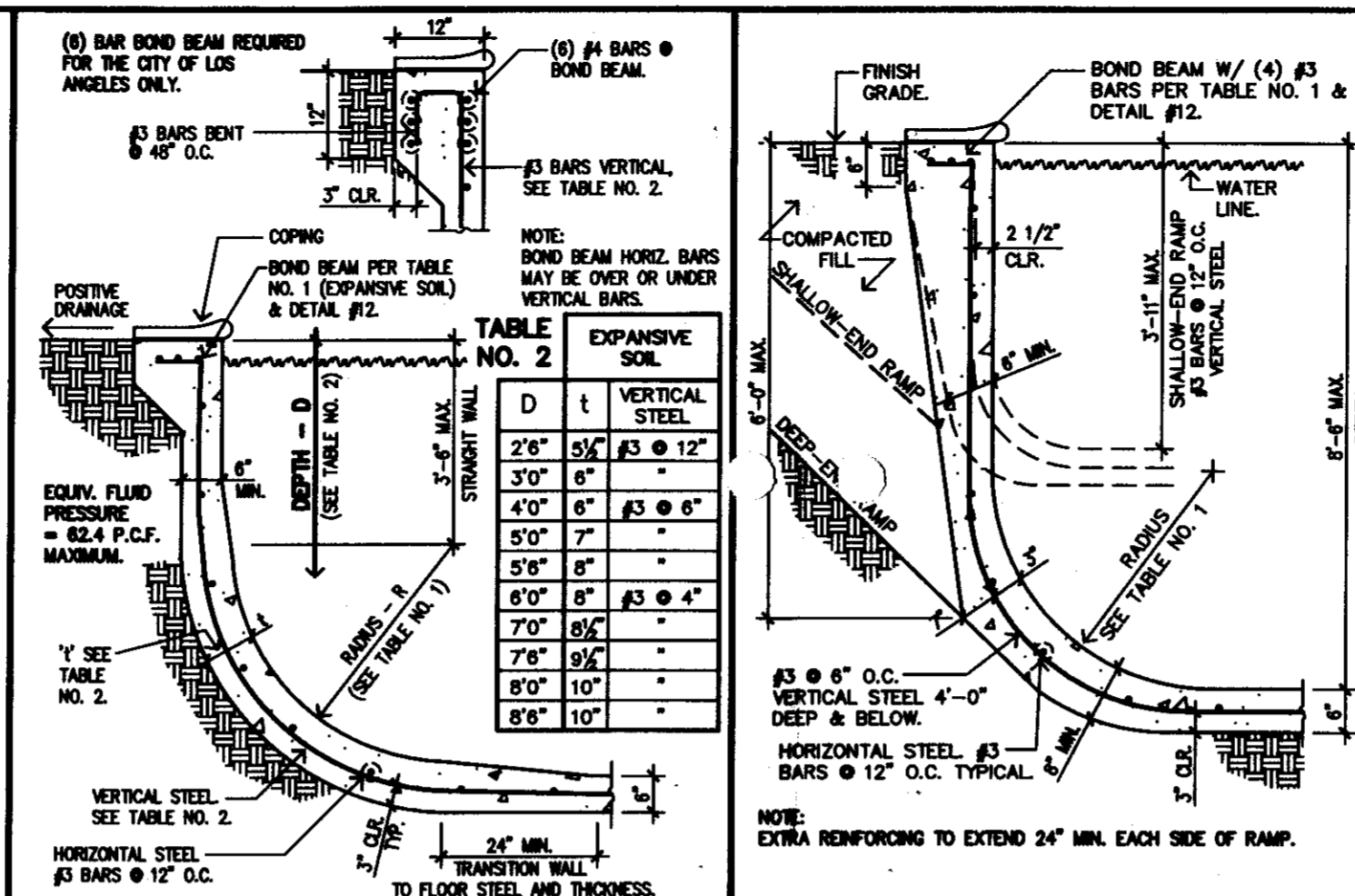
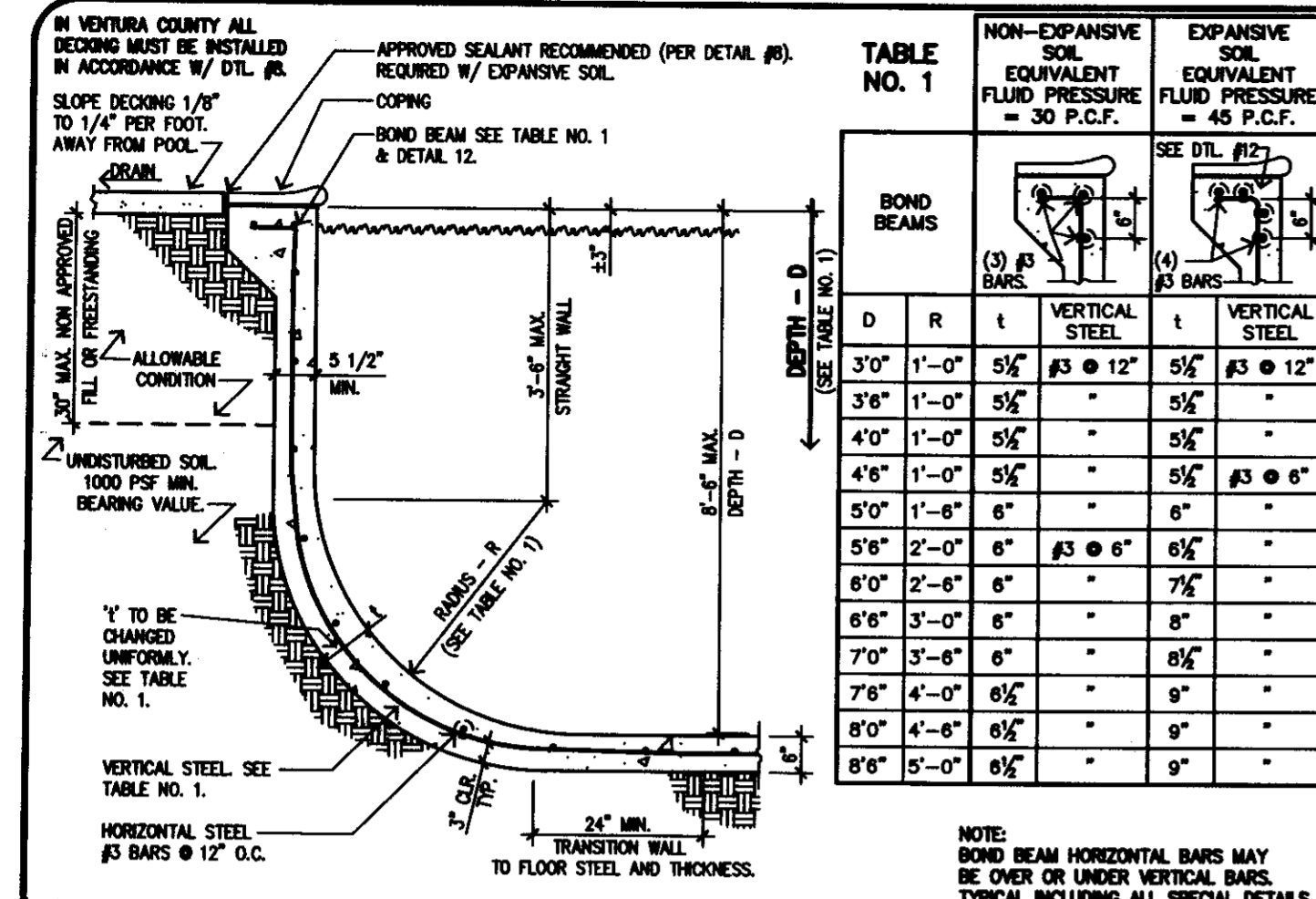
ROCK SURCHARGE
 ARTIFICIAL (SOLID) OR REAL
 EQUIVALENT FLUID PRESSURE = 45 P.C.F.
 (PLUS SURCHARGE)
 SEE LOADING DIAGRAM

DETAIL #601

Ron Lacher, R.C.E.
 1201 N. Tustin Ave.
 Anaheim, California 92807
 Fax: (714) 630-6114
 Phone: (714) 630-6100



PLAN VALID ONLY WITH ENGINEER'S SIGNATURE IN RED INK ON PLAN.
 THIS DETAIL TO BE USED IN CONJUNCTION WITH STANDARD POOL STRUCTURAL PLAN



STANDARD POOL STRUCTURAL PLAN

pool engineering inc.

Ron Lacher, R.C.E.
1201 N. Tustin Ave.
Anaheim, California 92807
Fax: (714) 630-6114
Phone: (714) 630-6100

STANDARD PLAN APPROVALS:

CITY OF LOS ANGELES: #268	SAN BERNARDINO: #06-08762-225A-01	KERN COUNTY: #213
CITY OF ONTARIO: APPROVED FOR 97 UBC	RIVERSIDE COUNTY: #342375	CITY OF FRESNO: P-00-01 REQ'S SUPPLEMENTAL NOTES
SAN DIEGO: #192	ORANGE COUNTY: #SW-05-0380 SHOTCRETE/GUNIT PER C.B.C. TBL 19-A-4 SEVERE EXPOSURE, IF NO TEST PERFORMED	FRESNO COUNTY: REQ'S SUPPLEMENTAL NOTES
SIMI VALLEY: SP1 REQ'S SIMI VALLEY NOTES ATTACHMENT	LOS ANGELES COUNTY: #28077 CONSTRUCTION TO BE PER 2002 LOS ANGELES COUNTY BUILDING CODE	
SANTA CLARITA: #306 REQ'S SUPPLEMENTAL NOTES	VENTURA COUNTY: #5-99 REQUIRES ATTACHMENT OF VENTURA COUNTY BARRIER REQUIREMENTS	
	CITY OF BEVERLY HILLS: #13 CONSTRUCTION TO BE PER 2001 C.B.C AND BEVERLY HILLS MUNICIPAL CODE ARTICLE 6	

PLAN VALID ONLY WITH WET STAMP & ENGINEER'S SIGNATURE IN RED INK ON PLAN.

AUTHORIZED SIGNATURES:
RONALD L. LACHER, P.E.
AARON J. COWEN, P.E.
TODD L. LACHER, P.E.

REGISTERED PROFESSIONAL ENGINEER
TODD L. LACHER
No. 67288
Exp. 8/30/09
CIVIL
STATE OF CALIFORNIA

STANDARD POOL STRUCTURAL PLAN

pool engineering inc.

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