



INQUIRY #: 6628473.8

YEAR: 1963

— = 500'





INQUIRY #: 6628473.8

YEAR: 1957

— = 500'





INQUIRY #: 6628473.8

YEAR: 1952

— = 500'





INQUIRY #: 6628473.8

YEAR: 1946

— = 500'



City Directory Abstract

Northgate Town Square

5800 Northgate Drive
San Rafael, CA 94903

Inquiry Number: 6635176.1
August 27, 2021

The EDR-City Directory Image Report

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Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1986	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1981	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1977	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1973	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1968	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	POLK DIRECTORY CO
1963	<input type="checkbox"/>	<input checked="" type="checkbox"/>	POLK DIRECTORY CO

FINDINGS

TARGET PROPERTY STREET

5800 Northgate Drive
San Rafael, CA 94903

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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LAS GALLINAS AVE

2017	pg A2	EDR Digital Archive
2014	pg A6	EDR Digital Archive
2010	pg A10	EDR Digital Archive
2005	pg A13	EDR Digital Archive
2000	pg A18	EDR Digital Archive
1995	pg A22	EDR Digital Archive
1992	pg A28	EDR Digital Archive
1986	pg A39	Haines Criss-Cross Directory
1981	pg A43	Haines Criss-Cross Directory
1977	pg A46	Haines Criss-Cross Directory
1977	pg A47	Haines Criss-Cross Directory
1973	pg A51	Haines Criss-Cross Directory
1968	pg A55	POLK DIRECTORY CO
1968	pg A56	POLK DIRECTORY CO
1963	-	POLK DIRECTORY CO

Street not listed in Source

NORTHGATE DR

2017	pg A3	EDR Digital Archive
2014	pg A7	EDR Digital Archive

NORTHGATE DR(NORTHGATE MALL)

1986	pg A40	Haines Criss-Cross Directory
1981	pg A44	Haines Criss-Cross Directory
1977	pg A48	Haines Criss-Cross Directory
1977	pg A49	Haines Criss-Cross Directory
1973	pg A52	Haines Criss-Cross Directory

FINDINGS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
1973	pg A53	Haines Criss-Cross Directory	
1968	pg A57	POLK DIRECTORY CO	
1968	pg A58	POLK DIRECTORY CO	
1963	-	POLK DIRECTORY CO	Target and Adjoining not listed in Source

NORTHGATE MALL

2010	pg A11	EDR Digital Archive
2005	pg A15	EDR Digital Archive
2000	pg A19	EDR Digital Archive
1995	pg A24	EDR Digital Archive
1992	pg A35	EDR Digital Archive

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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DEL PRESIDIO BLVD

2017	pg. A1	EDR Digital Archive
2014	pg. A5	EDR Digital Archive
2010	pg. A9	EDR Digital Archive
2005	pg. A12	EDR Digital Archive
2000	pg. A17	EDR Digital Archive
1995	pg. A21	EDR Digital Archive
1992	pg. A27	EDR Digital Archive
1986	pg. A38	Haines Criss-Cross Directory
1981	pg. A41	Haines Criss-Cross Directory
1981	pg. A42	Haines Criss-Cross Directory
1977	pg. A45	Haines Criss-Cross Directory
1973	pg. A50	Haines Criss-Cross Directory
1968	pg. A54	POLK DIRECTORY CO
1963	pg. A59	POLK DIRECTORY CO

City Directory Images

DEL PRESIDIO BLVD

2017

921	76
	TERRA LINDA 76 PROCARWASH
930	EXXON
	NORTHGATE VALERO & FOOD MART
	NORTHGATE VALERO SMOG
	NORTHGATE VALERO SMOG SHOP
	VALERO
949	CHEVRON
950	SHELL

LAS GALLINAS AVE 2017

200	NIKOLOV, GEORGI D
201	PIACENTE, ADAM J
202	GRIMES, ANDY J
203	DEAN, EMILY M
205	PEREZ, SOLIS P
207	DANIELS, DAN L
209	CARDENAS, JOSH D
211	BOBROW, ERIC L
212	ETCHEVERRY, CLAUDE J
213	DIEKMAN, GREGORY M
214	BRECKWOLDT, ROBERT A
215	KAULUKUKUI, JOSEPH N
216	PEAK, KEVIN T
217	MODAN, AHMED
219	SIDERIS, PLUTARCH M
300	CHASE
400	MICHAELS SAN RAFAEL LOCKSMITH
406	BEAUTY STORE & SALON HAIR STATION
418	PEKING WOK RESTAURANT
424	3 MARTIANS PIZZA EMERGENCY LOCKSMITH
430	LESLIES SWIMMING POOL SUPPLIES
442	PLUMBING SERVICES COMPANY REDBOX
454	BRIDGE TO BRIDGE TECHNOLOGIES ELDER TRANSITION CARE EXECUTIVE CHARTERS & LIMOUSINE OF MA ISAAC BAIL BONDS LEGAL ADDITIONS LLC MARIN HELPDESK INC MOSAIC NETWORKS MOSAIC NETWORKX PAK MAIL RECOVER YOUR PROPERTY DOT ORG RHYS GARAGE DOORS & GATES
456	RED WING SHOES
470	CRYSTAL NAILS II SUPERCUTS
484	HIGH TECH BURRITO
496	MICHELIN DEALERS MICHELIN DEALERS TOSCALITO TIRE & AU TOSCALITO TIRE & AUTOMOTIVE

NORTHGATE DR 2017

2000 APPLEBEES NEIGHBORHOOD GRILL & BAR
 2400 GNC
 3840 EYEXAM OF CALIFORNIA
 4000 LOI SALON
 4100 PACSUN
 4400 GAMESTOP
 5000 EUROPEAN WAX CENTER
 PANERA BREAD
 ROADSIDE BBQ
 5010 KOHLS
 5060 SEES CANDIES
 5332 DAZZLE WIRELESS COMPANY
 5800 24 7 LOCKSMITH
 APPLEBEES
 APPLEBEES NEIGHBORHOOD GRILL & BAR
 BANK OF AMERICA ATM
 BATH & BODY WORKS
 BAYSIDE WATCH
 BJS RESTAURANT & BREWHOUSE
 BJS STORE 495
 BROW ARC
 CHIPOTLE MEXICAN GRILL
 CRAZY 8
 DAZZLE WIRELESS COMPANY
 ELEGANT REVIVAL
 EXPRESS
 FANTASY JEWELS
 FINGERS & TOES
 FOOT LOCKER
 GAMESTOP
 GNC
 GREAT STEAK
 GYMBOREE
 H&M
 HAT WORLD
 JENNYS GOWN BOUTIQUE
 KONGS FASHIONIA
 LENSRAFTERS
 LIDS
 MARIN LINK
 METABOLIFE
 PACSUN
 PANDA EXPRESS
 PANERA BREAD
 PAYLESS SHOESOURCE
 PEETS COFFEE
 PEETS COFFEE & TEA
 SBARRO
 SEES CANDIES CHOCOLATE SHOPS
 SHIEKH SHOES LLC

NORTHGATE DR 2017 (Cont'd)

5800 SHIRTIQUE
SOLE DESIRE SHOES
SUBWAY
SUIT UP
SUNGLASS HUT
THINGS REMEMBERED
TILLYS
TMOBILE
TOMATINA RESTAURANT
US BANK
US BANK CRISTINA SHIMABUKURO M
VANS
VERIZON WIRELESS
VICTORIAS SECRET & PINK
WALMART
XXI FOREVER
ZEE JEWELERS
6000 GAP
HOMEGOODS
8950 MENS WEARHOUSE
9000 SEARS
SEARS APPLIANCE REPAIR
SEARS OPTICAL

DEL PRESIDIO BLVD

2014

921	TERRA LINDA 76 PROCARWASH
930	NORTHGATE EXXON
	NORTHGATE VALARO SMOG
	NORTHGATE VALERO & FOOD MART
	NORTHGATE VALERO SMOG SHOP
949	CHEVRON
	CHEVRON STATION SAN RAFAEL
950	NORTHGATE SHELL

LAS GALLINAS AVE 2014

200	NIJOLOV, GEORGI D
201	PIACENTE, ADAM J
202	GRIMES, ANDY J
203	HART, CHRISTOPHER
205	PEREZ, SOLIS P
207	DANIELS, DAN L
209	CARDENAS, JOSH D
211	GRAHAM, AYDEN L
212	ETCHEVERRY, CLAUDE J
213	ANDREW, GREGORY M
214	BRECKWOLDT, ROBERT J
215	KAULUKUKUI, JOSEPH N
217	MODAN, MAHMOOD Y
219	SIDERIS, PLUTARCH M
275	THOMPSON, ALICE
300	CHASE
	CHASE BANK
400	MICHAELS
	SAN RAFAEL LOCKSMITH
404	ABECIA, PURITA
406	BEAUTY STORE & SALON
	HAIR STATION
418	PEKING WOK RESTAURANT
424	3 MARTIANS PIZZA
	EMERGENCY LOCKSMITH IN SAN RAFAEL
430	SYLVAN LEARNING OF SAN RAFAEL
442	CVS PHARMACY
	LONGS DRUG STORE
454	DAVIS DEBORAH MA LMFT
	ELLIOTT, DIANE E
	FARKAS PETER LAW OFFICES OF
	MOSAIC NETWORKX
	PAK MAIL
456	RED WING SHOES
470	CRYSTAL NAILS II
	SUPERCUTS
	SUPERCUTS TRAINING CENTER
484	HIGH TECH BURRITO
490	CHILIS
496	TERRA LINDA TIRE & BRAKE
	TOSCALITO TIRE & AUTOMOTIVE

NORTHGATE DR 2014

2400 GNC
 3450 SHIEKH
 3800 GYMBOREE STORE THE MALL AT NORTHGATE
 3840 EYEXAM OF CALIFORNIA
 4400 GAMESTOP
 5000 EUROPEAN WAX CENTER
 PANERA BREAD
 ROADSIDE BBQ
 5010 KOHLS
 5075 SEES CANDIES
 5100 AZAMATTRADE
 5800 24 7 LOCKSMITH
 AMANI MENSWEAR TUXEDO RENTAL
 BAY SIDE WATCH
 BERRY TWIST
 BJS RESTAURANT & BREWHOUSE
 BUCKLE
 CELLAIRIS
 CHIPOTLE MEXICAN GRILL
 COMBO KING RESTAURANT
 DAZZLE WIRELESS COMPANY
 EXPRESS
 FANTASY JEWELS
 FINGERS & TOES
 FOOT LOCKER
 GREAT STEAK
 GYMBOREE
 HAT WORLD
 HM
 LENSRAFTERS
 MALL AT NORTHGATE THE
 MARIN LINK
 NORTHGATE
 NORTHGATE BEAUTY
 PACSUN
 PANDA EXPRESS
 PAYLESS SHOESOURCE
 PEETS COFFEE & TEA
 RADIOSHACK
 REGIS SALONS
 SBARRO
 SEES CANDIES CHOCOLATE SHOP
 SHIEKH SHOES LLC
 SHOGUN
 SOLE DESIRE SHOES
 SUBWAY SANDWICHES
 SUNGLASS HUT
 THE CHILDRENS PLACE
 THINGS REMEMBERED
 TILLYS

NORTHGATE DR 2014 (Cont'd)

5800 TMOBILE
TMOBILE SAN RAFAEL
TOMATINA RESTAURANT
US BANK
VANS
VERIZON WIRELESS
VICTORIAS SECRET
WETZELS PRETZELS
XXI FOREVER
ZEE JEWELERS
ZUMIEZ
5862 EMERGENCY LOCKSMITH IN SAN RAFAEL
6000 GAP
8950 MENS WEARHOUSE
9000 SEARS AUTO CENTER

DEL PRESIDIO BLVD

2010

921	TERRA LINDA 76 PROWASH
930	NORTHGATE EXXON
	NORTHGATE SMOG CHECK
	NORTHGATE VALERO & FOOD MART
949	CHEVRON
950	NORTHGATE SHELL

LAS GALLINAS AVE 2010

200 NIJOLOV, GEORGI D
 WESTERN EAGLE SHUTTLE
 201 PIACENTE, ADAM
 202 GRIMES, ANDY J
 203 DEAN, EMILY M
 205 PEREZ, SOLIS P
 207 DANIELS, DANNY L
 209 GARCIA, BERNARDO
 211 GRAHAM, ERIC L
 212 ETCHEVERRY, CLAUDE J
 213 ANDREW, GREGORY M
 214 BRECKWOLDT, ROBERT J
 215 KAULUKUKUI, JOSEPH N
 216 WASH, ROBERT L
 217 AHMADIA, AREF S
 WEST END PRORPERTIES
 219 SIDERIS, PLUTARCH M
 250 HEALTH CENTER
 300 CHASE
 400 MICHAELS ARTS & CRAFTS
 406 BEAUTY STORE & SALON
 SINGLEY HANNELORE
 418 PEKING WOK RESTAURANT
 424 MARIJUANA ANONYMOUS FREE HELP
 ROMA PIZZA
 430 SYLVAN LEARNING CTR
 442 CVS PHARMACY
 454 ANDY PARK PHOTOGRAPHY
 BEHAVIORAL COUNSELING & RSRCH
 BRIDGE TO BRIDGE APPRAISERS
 DAVID NICKERSON LAW OFFICES
 DISTINCTIVE NEST INTERIOR DSGN
 ELIZONDO FINANCIAL SVC
 FELIX LANDSCAPE
 HEARTS OF SPACE
 PAK MAIL
 PENNEYS JC CATALOG SALES
 PETER FARKAS LAW OFFICE
 RUSSELL GEOFFREY E
 456 RED WING SHOE STORE
 470 CRYSTAL NAILS II
 NINA NAILS
 SUPERCUTS
 484 HIGH TECH BURRITO
 490 CHILIS GRILL & BAR
 496 TOSCALITO TIRE & BRAKE CTR

NORTHGATE MALL 2010

2000	APPLEBEES NEIGHBORHOOD GRILL
2100	MODERN EVE
2150	MAC ERICH LEASING
2630	REFLECTIVE MOMENTS
3050	APPLEBEES NEIGHBORHOOD GRILL
3310	RADIO SHACK
3320	YASMIN
3330	SAN RAFAEL VOLUNTEER PROGRAM
3400	ANIMAL KINGDOM
3450	SHIEKH SHOES
3800	GYMBOREE
3840	LENSCRAFTERS
4000	BEAUTY SHOP & SALON
	LOI SALON
4100	PAC SUN
4450	AROMAS & PERFUMES
5000	PANERA BREAD
5010	KOHL'S DEPARTMENT STORE
5040	FANTASY JEWELS
5060	SEES CANDIES
5150	NORTHGATE STUDIO
5318	TREASURE JEWELRY
5332	DAZZLE WIRELESS CO
5600	CELLPHONE, ART
5800	B JS RESTAURANT
	BAY SIDE WATCH
	CHILDRENS PLACE
	CHIPOTLE MEXICAN GRILL
	HOT TOPIC
	NORTHGATE MALL
	REGIS SALONS
	SBARRO
	SUNGLASS HUT NO
	TMOBILE
	VANS
6000	GAP
	GAP BODY
	GAP KIDS
7000	CINEMARK NORTHGATE 15
8950	MENS WEARHOUSE
8990	ST TROPEZ TAN
9000	H&R BLOCK
	LUXOTTICA
	SEARS
	SEARS AUTO CTR
	SEARS OPTICAL

DEL PRESIDIO BLVD

2005

930 NORTHGATE EXXON
949 RON SABACA CHEVRON SERVICE 2

LAS GALLINAS AVE 2005

200 CHUI, CHEUK L
 LOUISE HONG KONG FASHION
 201 FAUSTINE, BARBARA J
 202 GRIMS, ANDY
 203 AMANS, CHARLOTTE L
 205 JUNE, CAMINITI
 207 DANIELS, DANNY L
 209 KITCHEL, WAYNE D
 211 GRAHAM, ERIC L
 KATHLEEN GRAHAM LEEMA
 212 OCCUPANT UNKNOWN,
 213 ANDREW, GREGORY M
 214 BRECKWOLDT, ROBERT J
 215 KAULUKUKUI, JOSEPH N
 216 SMITH, BRENDA B
 217 AHMADIA, AREF S
 219 SIDERIS, PLUTARCH M
 250 ANGEL DENTAL LABORATORY
 ANGELS DENTAL LAB
 300 WASHINGTON MUTUAL BANK
 400 MICHAELS ARTS & CRAFTS
 406 HAIR STATION
 418 PEKING WOK RESTAURANT
 PIZZA HUT HOLDINGS
 424 BAY LINK VOICEMAIL SERVICE
 EARTH TREASURES
 442 LONGS DRUG PHARMACY # 40
 LONGS DRUG STORE
 454 ADOBE GOLIVE
 ALCHEMY CUISINE
 BAKER STREET INVESTIGATIONS
 BEHAVIORAL COUNSELING & RESEARCH CEN
 CATALOGIC
 CERTIFIED TRANSPORTATION NETWORK
 DAVIS DEBORAH MA LMFT
 DISTINCTIVE NEST
 FARKAS PETER LAW OFFICE OF
 FRANKLIN FINANCIAL GROUP
 FRIENDLY PLUMBING
 FRIENDS OF DAVIDSON MUSIC FOUNDATION
 FUTURE PRESENCE INC
 GOBACKSTAGE PRODUCTIONS
 HOURGLASS ARTS
 INTERACTIVE MEDICAL SPECIALISTS INC
 KBR ENTERPRISES INC
 LAW OFFICE OF JEFFREY A MOSS
 LEROY GROUP
 LONGO ASSOCIATES
 M I EVANS FITNESS
 MARIN COUNTY SENIOR INFORMATION FAIR

LAS GALLINAS AVE

2005

(Cont'd)

- 454 MARIN COUNTY SNR INFRMTN FAIR
- MARTIN & MARTIN HAULING CO
- NATIONAL ELEC CONTRACTORS ASSN
- NICKERSON DAVID LAW OFFICES
- OMNI 7COM
- ORY DESIGNS
- PAK MAIL
- PATHWAYS INSTITUTE
- PAYNE WHITTINGTON INS SERVICE
- PCGAMERGEAR
- PRECISION GROUP
- RAFAEL TREE SERVICE
- RED ROCK MORTGAGE LLC
- SOMEPLACE SPECIAL
- TEN 28 INVESTIGATIONS
- THE MORTGAGE MAKERS
- TORRES KIRSHA
- 470 NINA NAILS
- SUPERCUTS
- 484 HIGH TECH BURRITO
- 496 TOSCALITO ENTERPRISES

NORTHGATE MALL 2005

2000 OLLINI FURNITURE
 2180 GIVE YOUR DOG A BONE
 2250 BATH & BODY WORKS
 2300 LANE BRYANT
 2400 GENERAL NUTRITION CORP
 GNC
 2450 NICOLES
 NICOLES ANGORA
 2460 SUNGLASSES HUT INTERNATIONAL
 2630 REFLECTIVE MOMENTS
 2640 DOOR TO THE WORLD IMPORTS INC
 2655 CHAMPS SPORTS
 2670 DOLLAR PLUS
 2725 SERENITY DAY SPA
 2750 DESIGNS FOR LIVING
 3000 BLOCKBUSTER INC
 VIACOM
 3050 APPLEBEES NEIGHBORHOOD GRILL & BAR
 APPLEBEES RESTAURANT
 3080 LAND OF THE SUN IMPORTS
 3200 US BANK
 3310 RADIOSHACK
 3320 SAINT NICKS PLACE
 ST NICKS PLACE
 3330 CITY HALL AT THE MALL
 3400 ANIMAL KINGDOM
 3450 SHIEKH LLC
 SHIEKH SHOES
 3500 ORECK FACTORY SHOWROOM
 3600 CRIMPERS
 3650 NORTHGATE FLORIST
 3670 MACYS
 ROMA SOURDOUGH PIZZA & SUBS
 3680 CURVES FOR WOMEN
 3700 TRANS WORLD ENTERTAINMENT CORP
 3800 GYMBOREE
 3840 ALAN HOMES INC
 LENSRAFTERS
 3880 A CHILDS DELIGHT INC
 4000 BEAUTY STORE & SALON
 DEBBI CARRERAS HAIR DESIGN
 LOI SALON
 NAILS BY SUSAN
 SOVANNARY HAIR STATION
 4100 PACIFIC SUNWEAR OF CALIFORNIA
 4200 INTRIGUE JEWELS
 MERCHANT JEWELERS
 4400 ELECTRONICS BOUTIQUE
 4450 TEAFOUNTAIN
 THINGS REMEMBERED

NORTHGATE MALL 2005 (Cont'd)

4500	CRESCENT JEWELERS
4700	NAIL TRIX
5010	TARGETS CORP
5015	PAYLESS SHOESOURCE
5020	LAS MANOS
5025	KB TOYS
5035	SUBWAY SANDWICHES
5040	FANTASY JEWELS
5050	WALDENBOOKS
5075	SEES CANDIES
5150	PRINTS PLUS
5300	JOURNEYS SHOES
5332	ORANGE JULIUS
5600	CELLPHONE, ART PICTURE PEOPLE THE
5800	FUTURE PAGING & CELLULAR HERBAL COMFORT SPA TO GO VICTORIAS SECRET STORES INC
5820	E FRIEDMAN MARKETING SERVICES
5835	JHAN THONG
5840	TACO BELL
5850	SKEWERS
5860	EDO JAPAN
5880	WESTGATE TELECOMMUNICATION INC
5890	NAMCO CYBERTAINMENT TIME OUT
6000	GAP THE
8930	REGIS SALON
8940	STRIDE RITE BOOTERY
8950	AFTERHOUR FORMALWEAR INC
8980	YOGURT WORLD USA
9000	BLOCK H & R CONSUMER PROGRAMS INC FRANKLIN LEE OD LENTZ JAMES T OD SEARS HEARING AID CENTER SEARS OPTICAL SEARS PORTRAIT STUDIO

DEL PRESIDIO BLVD

2000

- 921 TERRA LINDA UNOCAL
- 930 BRENDALS EXXON SERVICE
NORTHGATE EXXON
- 949 CHEVRON STATIONS
PARKWAY CHEVRON FOOD MART

LAS GALLINAS AVE 2000

200	CHUI, CHEUK L
201	FAUSTINE, J
202	GRIMES, ANDY J
203	AMANS, C
205	SKYBROOK, JEANNE
207	DANIELS, DANNY L
209	KITCHEL, MELISSA M
211	BOBROW, ERIC GRAHAM, K
212	ETCHEVERRY, JEAN
213	ANDREW, GREGORY
214	BRECKWOLDT, ROBERT J
215	SALVISBURG, LINDA
216	BURTONSMITH, B
217	OCCUPANT UNKNOWN,
300	WASHINGTON MUTUAL BANKING BANK LOCATIONS NOVATO WASHINGTON MUTUAL BANKING LOAN CENTER
400	LUCKY FOOD CENTERS
406	BEAUTY MAGIC SALON & SUPPLY SINGLEY, H
418	PEKING WOK RESTAURANT
424	BIG CHILL YOGURT & ICE CREAM
430	INTERNATIONAL GOURMET DELICATESSEN
442	HENRY, PAM J LONGS DRUG STORES TERRA LINDA
454	FARKAS PETER LAW OFFICE PACIFIC SIGNAL INCORPORATED OFFICE PAK MAIL CENTERS OF AMERICA PROFESSIONAL MARKETER THE TS COMMERCIAL CLEANING ZIPWAY INCORPORATED
456	RED WING SHOE STORE
470	NINA NAILS SUPERCUTS
484	SILVER SCREEN VIDEO
490	CHILIS GRILL & BAR
496	GOODYEAR DEALERS TOSCALITO TIRE & AUTOMTV LOCATIO MICHELIN DEALERS TOSCALITO TIRE & AUTOMTV LOCATIO PIRELLI TIRES TOSCALITO TIRE & AUTOMTV LOCATIONS TERRA LINDA TIRE & BRAKE TOSCALITO TIRE & AUTOMOTIVE LOCATIONS

NORTHGATE MALL 2000

2200 UNUSUAL THINGS
 2250 BATH & BODYWORKS
 2400 GENL NUTRITION CENTER
 2450 WET SEAL
 2620 LIEBMAN WILLIAM M MD
 2630 BATTENS & BOARDS
 2640 CHOICE FASHIONS
 GAP THE
 2655 CHAMPS SPORTS
 2670 DOLLAR PLUS
 2690 SUNCOAST MOTION PICTURE COMPANY
 2700 HALLMARK, MARKS
 MARKS HALLMARK
 2750 DESIGNS FOR LIVING
 MODULAR DESIGNS FOR LIVING
 3070 CALIFORNIA HOME COMPANY
 3100 CANDLE HOUSE THE
 3200 BAY VIEW BANK BRANCH LOCATIONS
 3320 A CHILDS DELIGHT
 CHILDS DELIGHT
 3400 FREDERICKS OF HOLLYWOOD
 3450 SPACCIO
 3500 ORECK XL FLOOR CARE CENTER
 3600 CRIMPERS THE SALON
 SALON THE
 3650 TOGOS EATERY NORTHGATE MALL
 3800 AXIS LUGGAGE & LEATHER
 3840 DOCTORS OF OPTOMETRY
 LENS CRAFTERS
 4000 BEAUTY STORE & SALON
 LOI SALON
 SOVANNARY HAIR STATION
 4050 WILSONS SUEDE & LEATHER
 4100 PACIFIC SUNWEAR OF CALIFORNIA
 4200 MERCHANT JEWELERS
 4400 ELECTRONICS BOUTIQUE
 4450 THINGS REMEMBERED
 4500 KAY JEWELERS
 4650 SHOE STOP INSTANT SHOE REPAIR
 5010 MERVYNS CALIFORNIA DEPARTMENT STORES
 5015 PAYLESS SHOESOURCE
 5030 SBARROS ITALIAN EATERY
 5035 YES BURGERS & MALTS
 5040 FANTASY JEWELS
 5060 SEES CANDIES NORTHGATE MALL
 5200 MRS FIELDS COOKIES
 5250 AFTER SHOCK
 5318 PIERCING PAGODA
 5320 INTRIGUE JEWELRY
 5332 ORANGE, JULIUS

NORTHGATE MALL 2000 (Cont'd)

5350	NORTHGATE FLOWER SHOP
5400	PRINTS PLUS
5500	ANIMAL KINGDOM
5600	EXPRESSLY PORTRAITS
5650	RICKS HOLLYWOOD HIWAY
5800	ANATOLIA HOME STORE
	BATH & BODY WORKS
	BLOCKBUSTER VIDEO
	CARDS N SUCH
	CISI
	DOWN UNDER ENTERPRISE
	FREEMAN, CHAD C
	FUTURE PAGING & CELLULAR
	LANE BRYANT LADIES APPRL
	METABOLIFE
	NORTHGATE MALL MANAGEMENT & LEASING OFFICE
	PARADISE BAKERY
	THOMAS KINKADE VILLAGE GALLERY AT NORTHGATE
5820	FRIEDMAN MARKETING OF CALIFORNIA INCORPORATED
5830	MCDONALDS RESTAURANTS
5835	JHAN, THONG
5840	TACO BELL
5850	AMIN, HASSAN
	SKEWERS
5860	EDO JAPAN
5870	COMBO KING RESTAURANT
7000	NORTHGATE THEATRE
	PACIFIC THEATRES NORTHGATE
8920	EL CERRITO PLAZA STORES & SPECIALTY SHOPS
	OCCUPANT UNKNOWN,
	TOY SYMPHONY
8940	STRIDE RITE BOOTERY
8980	SHAIKH, MUNIR M
	YOGURT WORLD USA
8985	FAIRFAX FRENCH CLEANERS 1986 INCORPORATED
9000	BERNSTEIN MARC
	BERNSTEIN, MARC
	BLOCK H & R LOCAL OFFICES
	JIFFY LUBE AT SEARS AUTO CENTER
	LENTZ JAMES T OD
	MIRACLE EAR AT SEARS
	SEARS HEARING AID CENTER
	SEARS ROEBUCK AND CO RETAIL STORES
	SEARS ROEBUCK AND COMPANY RETAIL STORES
	SEARS WATCH REPAIR

DEL PRESIDIO BLVD

1995

930	BRENDELS EXXON
949	RON SABACA CHEVRON FOOD MART

LAS GALLINAS AVE 1995

200 CHUI, CHEUK L
 201 FAUSTINE, JOSEPH
 202 GRIMES, K E
 205 GARCIA, J M
 207 OCCUPANT UNKNOWNN
 209 KITCHEL, JOAN K
 211 VOSS, RICHARD H
 212 ETCHEVERRY, JEAN
 213 ODISIO, ANDY
 214 BRECKWOLDT, ROBERT J
 215 OCCUPANT UNKNOWNN
 216 BURTONSMITH, B
 217 AHMADIA, AREF
 219 SIDERIS, PLUTARC M
 300 GREAT WESTERN BANK
 400 LUCKY STORE
 406 ALL ABOUT HAIR
 BEAUTY STORE & MORE
 HAIR STATION
 NAILS BY CAMI
 SOVANNARY HAIR STATION
 418 LA PETITE BOULANGERIE
 424 BIG CHILL YOGURT & ICE CREAM
 430 INTERNATIONAL GOURMET DELI
 442 LONGS DRUG STORE
 448 DELUXE ONE HOUR PHOTO
 454 BAY COMPUTERIZED RESEARCH CTR
 BEARDEN, KELLI
 BONDAUG, MARISSA
 CASTEN, BECKY A
 CLARK, G
 COOPERMAN, LIBBA
 FOX, MICHAEL J
 FRAZER, JOHN R
 FREY, MARRY L
 GUNN, KATHI
 JUDITH ARNOLD GROUP
 LEONG, T
 MALKIN, NEIL
 NELSON, LEE
 OLMSTED, K
 PAK MAIL CTR OF AMERICA
 ROBERTA KOSHEL DPM
 RYAN, M C
 SHAPIRO, LARRY
 SUTTON CONSULTING
 WILLIAM D KING
 WINTERS, HOWARD
 WOOD, MATTHEW
 470 HAIRCRAFTERS

LAS GALLINAS AVE

1995

(Cont'd)

- 470 NINA NAILS
- 484 SILVER SCREEN VIDEO
- 490 ZIMS RESTAURANTS
- 496 TOSCALITO TIRE & BRAKE CTR

NORTHGATE MALL 1995

2000 F W WOOLWORTH CO
 2100 LECHTERS INC
 MODERN EVE
 2150 HOUSEHOLD FINANCE CO
 2180 CASUAL CORNER
 2450 RAVE
 WET SEAL INC
 2620 LIEBMAN, WILLIAM M
 WILLIAM M LIEBMAN MD
 2630 CRUISE & LEISURE TRAVEL
 2640 GAP STORE INC
 LIMITED
 2655 CHAMPS SPORTS
 2690 SUNCOAST MOTION PICTURE CO
 2700 EVERYTHINGS A DOLLAR
 2750 DESIGNS FOR LIVING
 3000 OCCUPANT UNKNOWNN
 3020 STRING THE PASTA PLACE
 3030 GREGORY ALLEN HAIR DESIGN
 3040 SHOLEHS
 3060 GINGISS FORMALWEAR
 3070 OCCUPANT UNKNOWNN
 PEARLE VISION CTR
 3080 VOGUE ALLEY
 3330 COFFEE ETC
 3400 FREDERICKS OF HOLLYWOOD
 3450 PETITE SOPHISTICATE
 3500 ALL AMERICAN PRINTING SVC
 3600 CRIMPERS THE SALON
 3670 RED BOY PIZZA
 3680 BALLERINI ITALIAN CLOTHING
 3840 COUNTY SEAT
 3880 JAY JACOBS
 3900 MILLERS OUTPOST
 3950 GARAGE
 4050 WILSONS THE LEATHER EXPERTS
 4100 PACIFIC SUNWEAR OF CALIFORNIA
 4150 THIS END UP FURNITURE CO
 4200 HUDSON GOODMAN JEWELER
 4400 ELECTRONICS BOUTIQUE
 4450 THINGS REMEMBERED
 4500 KAY JEWELERS
 4650 SHOE STOP INSTANT SHOE REPAIR
 4700 LAS MANOS
 4890 ALADDINS CASTLE
 4980 YOGURT WORLD USA
 5010 MERVYNS DEPARTMENT STORE
 5015 PAYLESS SHOE SOURCE
 5020 MUSICLAND
 5025 KAY BEE TOY & HOBBY SHOP

NORTHGATE MALL 1995 (Cont'd)

5030	SBARROS
5035	YES BURGERS & MALTS
5040	CLAIRES BOUTIQUE
5050	WALDENBOOKS
5060	SEES CANDIES
5100	MILL VALLEY SHEEPSKIN
5151	COBBIE SHOES
5200	MRS FIELDS COOKIES
5250	NATURALIZER SHOES
5300	PATRICIA T BATH INTERIORS
5318	PIERCING PAGODA
5320	INTRIGUE JEWELRY
5322	DE LA PENNA STERLING SILVER
5326	SUNGLASS HUT
5330	NINTENDO ENTERTAINMENT CTR
5332	ORANGE JULIUS
5336	NOVELTIES PLUS
5350	NORTHGATE FLOWER SHOP
5400	PRINTS PLUS
5500	PATTY ANNS HALLMARK
5600	EXPRESSLY PORTRAITS
5650	SOFTWARE ETC
5800	ATHLETES FOOT
	BLOCKBUSTER VIDEO
	CARDS N SUCH
	LANE BRYANT
	NORTHGATE MALL MANAGEMENT
	PARADISE BAKERY
	PAYLESS SHOE SOURCE
	SEARS HEARING AID CTR
	STEVE ZIMMERMAN
	VIDEOCONCEPTS
	WALDENBOOKS
	WHEREHOUSE RECORDS
5820	FRIEDMAN MARKETING CALIFORNIA
5830	MC DONALDS
5835	JHAN, THONG
5850	SKEWERS
5860	1 POTATO 2
5870	CHINESE COMBO KING
6000	B DALTON BOOKSELLER
6080	CLOTHES TIME INC
6100	RADIO SHACK
6140	KINNEY SHOES
6170	DOUBLEDAY BOOK SHOP
7020	DECK THE WALLS
7090	GENERAL NUTRITION CTR
7114	GRILL AT NORTHGATE
7120	RITZ CAMERA ONE HOUR PHOTO
7500	EUREKA BANK

NORTHGATE MALL 1995 (Cont'd)

8930 REGIS HAIRSTYLISTS
8940 STRIDE RITE BOOTERY
8960 TOTALLY TROLLS
8970 COTTON KIDS
8985 FAIRFAX FRENCH LAUNDRY & CLNRS
8990 LA COQUETTE NAIL CARE
9000 H & R BLOCK INC
JAMES T LENTZ OD
LENTZ, JAMES T
SEARS ROEBUCK & CO
SEARS TIRE & AUTO CTR
TIMS CAR RADIO

DEL PRESIDIO BLVD

1992

930	BRENDELS EXXON SERV
949	RON SABACA CHEVRON

LAS GALLINAS AVE 1992

101	MAY, WILLIAM
200	JONES, ALLAN D
201	FAUSTINE, JOSEPH
211	SMITH, ALISON
	VOSS, RICHARD
213	ODISIO, ANDY
216	BURTONSMITH, B
217	JUKOV, BORIS
219	SIDERIS, PUTARCH M
300	GREAT WSTRN BK LOAN
400	LUCKY FOOD CENTERS
406	BEAUTY STORE&MORE
418	LA PETITE BOULANGRE
424	BIG CHILL YOGURT
430	INTL GOURMET DELI
442	LONGS DRUG MAIN TL
448	DELUXE ONE HR PHOTO
454	BAY CMPTRZD RSRCH
	KING WILLIAM GG ASA
	KOSHEL ROBERTA DR
	PAK MAIL CTRS OF AM
470	HAIRCRAFTERS
	NINA NAILS
484	SILVER SCREEN VIDEO
496	MICHELIN DEALERS
550	AMER SAVINGS BANK
600	WELLS FRGO LOANS
630	AMER INVESTORS CO
	BLAIR MADISON ASCTS
	GLENDALE FED BANK
	KENNEDY JAS M ATTY
	MANN JEANNE C ATTY
	SCHAAL THOS E ATTY
	SHARP JOHN E ATTYS
662	LEW MICHAEL W DMD
	LEW, MICHAEL W
	STROM NITA
	STROM, NITA
664	PARK LANE MORTGAGE
670	SPENCER C J DDS
	SPENCER, C J
750	BIEN RALPH MD
	BLOOM DAVID S MD
	CAMPAGNA JOAN MD
	CHAFFIN DANL S MD
	COX CATHERINE J DDS
	CUNNINGHAM CNSLTS
	DAB MICHAEL DDS
	DRUCKER MARK DPM
	GOLDBERG ALBERT MD

LAS GALLINAS AVE

1992

(Cont'd)

750 GREENBERG JOSEPH MD
 GRYSOY JOSEPH A DDS
 GRYSOY, JOSEPH A
 HAND TERRY MD
 HASS FREDERICK J MD
 HILL GERALD MD
 HINES SUE A ICSW
 JANZEN CALVIN L MD
 JOHNSON JOHN E DDS
 JOSEPH JANICE K MD
 KANTOR EZRA H DDS
 KATZOFF RICHD S DDS
 LANE ARTHUR M DMD
 MARIN MDCL PHARMACY
 MCDOWELL MAGGIE
 MCDOWELL, MAGGIE
 NICKEL BONNIE MD
 NORCAL HEARING
 PEEK CHARLES B MD
 RODICH FILMORE S MD
 RUNES GARY W DDS
 SATHER PAUL O MD
 STEIN MERVYN R MD
 STULTZ E ROBERT DMD
 WALTERS M G PHD
 YBALLA ALICIA DDS

825 A DIFFERENT VIEW
 ALBACHTEN, K C
 CHASANOFF, M V
 CHASE, ENID
 CHECCHI, S
 FERRARI, LINO G
 KENNER, B
 KERN, R W
 KLEINLEIN, M H
 MILLESON, DOROTHY
 PROFSNL INVSTRS MNG
 SHETTY, ASHOK
 STEINBERG, ORI
 VIGDORCHIK, LEON

845 AYALA, MARIA L
 DICKENS, BETHANI
 DUNN, P
 GIUSTI, MARIO
 JAIKISHEN, V
 KEATING, E S
 NORWOOD, G
 SANBORN, D C

865 RAJA, GOPAL
 ROJAS, A

LAS GALLINAS AVE

1992

(Cont'd)

880 ALLSTATE INS AGENT
 BRADWELL DAVID&ASC
 COLLARD A D DDS
 KEENAN JIM
 KEENAN, JIM
 MARSHALL ROBT D JR
 MARTIN TIMOTHY B DO
 MARTIN, TIMOTHY B
 MCGLYNN D J ATTY
 MCKENNEY JAS B ATTY
 STILSON BRUCE ATTY
 STILSON, GUY W
 900 BITTELMAN NESTOR
 JONES SALLY MFCC
 JONES, SALLY
 PALMIGIANO CHAS MD
 PALMIGIANO, CHARLES
 RUTNER STANLEY DDS
 STRANGER K MS MFCC
 950 SAFEWAY STORES
 1004 CAMILLERI, ANTHONY J
 1008 ROSS, NEIL D
 1012 HORIHATA, KEIYA
 1028 MOOREHOUSE, MARK
 1029 CASTELLANI, LOUIS R
 1035 MACKEY, KIP
 1045 AULD, CHARLES G
 1049 BROWN, GEORGE
 DICKSON, JUDY
 1053 RICHARDSON, JOHN T
 1054 DESALERNOS, CAROLE
 1057 LITRELL, WALTER B
 WISE, CAROL
 1058 HASSELOT, MARCEL L
 1075 WARE, PAUL B JR
 1100 LUTHRN CH RESURRCTN
 1111 MARIN CO ED
 TEACHER ED CMPTR CT
 1130 JAGOW, FRED W
 1234 A GOLDEN HOME
 LENNON, ROBERT C
 THOMAS, OENONE
 1706 LOVE, PAUL
 1710 CROCE MAURIZIO CAPT
 CROCE, MORRIS A
 1713 DAVIS, LINTON
 1717 PURTLE, RICHARD D
 R D P MARKETING
 1725 FOEHR, FRANCIS O
 1733 PURCELL, JOHN L

LAS GALLINAS AVE

1992

(Cont'd)

1736	HERRELL, LARRY
1737	AMIRPOUR, PARVIZ
1740	ERLENBACH, KRISTIN
1741	LUCAS, RONALD L
1744	WALKER, RICHARD A
1748	MADDEN, PAUL J
1749	MARTINO, JOSEPH
1753	JUST IN CASE
	MALTER, HANK
1766	EDWARD, CHARLES V
1771	HART, HERBERT E
	WRIGHT, DOUGLAS
1775	BUSSE, GERHARD F
1778	BUTLER, MICHAEL
1779	TOWSLEE, GARY L
1782	EARLE, RICHARD T JR
1786	JUE, RICHARD K
1853	FOGEL, HENRY
1864	GREENBUSH, WILLIAM E
1868	MAITA, VINCENT
1869	BRANDT, ROBERT S
1877	BERGERON, ANDREW L
1881	BAMMER, JUDITH
	FEATHERSTONE, GARNET
1884	RICH, LARRY M
1888	STROWGER, JAMES E
1889	WHISENHUNT, GERALD H
1903	LEE, EUGENE
1907	FARBER, DONALD J
1911	LEES, M
1923	SHAHABI, SAEED
	VESTAR CONSTR CO
1927	OROLOGAS, ULYSSES
1932	KESLER, JOSEPH D
1934	CHEW, GEORGE G
1935	FALASCO, JOSEPH W
1940	BOSCO, EDWARD
1943	ROBERTS, CHARLES A
1947	RICHELIEU, FRED A
1950	GUTHRIE, NORMAN I
1951	ILYIN, BORIS
1954	MORDUS, STEPHEN F
1956	WESTERLUND, LELAND V
1958	OSULLIVAN, MARIE P
1959	DEKELAITA, SAM
1962	HANCOCK, JAMES
1967	PENLAND, HARVEY
1971	HERTOGS, JOSEPH C
1987	ROBINSON, RICHARD C
1991	MOGHADAM, JOAN L

LAS GALLINAS AVE

1992

(Cont'd)

1995	MEILACH, WILLIAM
2000	LUCAS VLY CMNTY CH MARIN FORMTV NURSTRY SONOMA ST UNIV NRSG
2015	HOLMES, KEN
2101	ANG, MELVIN KHAVKINE, C G
2107	CARLIN, WILLIAM E
2120	CARRADE, RICHARD M
2140	ONIZUKA, FRANK S
2155	CARLE, E P
2170	HANNA, IVAN
2175	THOMPSON, ALICE H
2185	DUDA, CARL J
2195	FRANJIEH, MAURICE J
2210	BISCHOFBERGER, HENRY K
2240	KUPELIAN, HRAIR
2255	DIXIE SCHLHSE FNDRN MILLER CREEK SCH
2315	PLUM, ALAN
2328	BARTEL, ERNEST R
2356	BRUDERER, BROCK C
2370	MEEKER, STEPHEN S
2375	GRANADOS, RITA
2384	HILL ROBIN HILL, ROBIN
2385	ELSBREE, THOMAS A
2400	AUCOIN CONSTR DIAS DERRYCK J CPA FASANO SUSAN MFCC FASANO, SUSAN HOFFMAN ROBERT DDS HOWIES HAIRCUTTING INSEARCH MNG CNSLT LONG TIMOTHY LONG, TIMOTHY NORTHBAY HEARNG AID PERRY, GLENN PROCTOR RICHARD DC STUNZ HARRY DDS
2405	REYNOLDS, TONY
2411	DARAMY, JEAN B
2511	CARLISLE, JAMES G
2523	NEYLAND, RALPH
2526	SYMKOWICK, MIKE R
2542	TRACY, NORBERT A
2550	CIOLINO, LEO
2563	SMITH, ROBERT V
2569	STINES, BUCK
2578	BREHM, CHESTER C

LAS GALLINAS AVE

1992

(Cont'd)

2586 BUCK, DONALD H
 CAIN, CHARLES M
 2591 BRUNINI, LOUIE
 GALETTI, L
 2602 OCONNOR, RICK K
 2605 ZIEGLAR, DONALD L
 2613 BECK, THOSS B
 NORMAN, JANE D
 2625 RONER, LARS
 2626 ROTHKOP, JULIUS
 2634 PROFFITT, J H
 2642 L&B PLMBG&HTNG INC
 2650 ELLIOTT, JOHN H
 2651 WILSON, HENRY
 2655 CHEN, YONG M
 2666 BREGANTE, JOSEPH
 WESSELL, EDNA
 2674 DOUGHERTYS
 2702 LAHART, MARCIA
 2710 THAANUM, ROGER
 2718 TSENIN, K
 2726 GREEN, DALE
 2737 SMITH, JUSTIN
 2742 BUCKELEW, ALVIN H
 2750 SILVIS, HUGH
 2763 GAMPER, HOWARD B
 2785 SCAHILL, THOMAS D
 2797 TRINDADE, HUBER
 2802 DUBA, ROGER L
 2807 CONWAY, PATRICK
 2810 REEVES, JOHN J
 2818 SCHINSKI, WILLIAM L
 2823 SPARKS, ALFRED E
 2909 RUPPANNER, TOM
 8455 LUDLOW, RHYS
 8652 LEE, PATRICK
 8656 RATHNER, ERWIN
 8803 MARSHALL, ROBERT D JR
 84511 EASTLAND, EDWARD M
 84512 KREUZER, M S
 84520 RELAMPAGOS, ROSITA
 84526 HOLLER, ROBERT
 84530 SHULMAN, RICHARD
 86512 LORING, M V
 825103 MENARD, P
 825202 KATZ, GERALD D
 825204 MCGLYNN, D J
 825220 VETRIOLO, A A
 825303 SAGER, PETER
 825319 HART, NORMAN

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LAS GALLINAS AVE

1992

(Cont'd)

2400150 PEARSON, C F

NORTHGATE MALL 1992

154 PHOTOS&FILMS
155 PIER 1 IMPORTS
160 BIG 5 SPORTING GDS
170 IDEAL OFFICE PRD CT
178 NORTHGATE TRAVEL CT
182 CROWN BOOKS
186 ROUND TABLE PIZZA
190 SALLY BEAUTY SUPPLY
194 FAR GO BIKE SHOP
196 SILBERMANN'S ICE CRM
200 TASTE OF TYROL A
234 ROYAL MANDARIN
242 NORTHGATE ONE SHOE
244 SPICE PLUS
248 ME&YOU HAIR DESIGN
250 AMER GENL FNCL CT
260 JELLY DONUT THE
270 NORTHGATE CLEANERS
274 CONTL SAVINGS OF AM
276 ROAST HSE HOF BRAU
280 BOUQUET&BALLOONS
NORTHGATE WINE&SPRT
288 SUPERCUTS
412 KERNS&WALKER CLEANING
1000 EMPORIUM ALL DPRTMN
1220 MARIN SCOOPS
1230 CANDY WORLD
1260 PAPYRUS
1280 GLORIA JEANS COFFEE
1290 TOPKAPI
1500 PAY LESS DRUG
2000 WOOLWORTHS NO 2733
2100 LECHTERS INC
2180 CASUAL CORNER
2220 GORDON'S JEWELRY
2255 FOOT LOCKER
2400 GRANAT BROS JEWELER
2450 WET SEAL
2500 NUTRI SYS WEIGHT CT
2630 CARLSON TRAVEL
2640 GAP THE
LIMITED THE
2690 SUNCOAST MOTN PCTR
2700 EVERYTHINGS A DOLLR
2750 WALL SYSTEMS
3020 STRINGS PSTA THE 13
3030 GREGORY ALLEN HAIR
3040 THE CORN POPPER
3080 VOGUE ALLEY
3320 WALDENKIDS

NORTHGATE MALL 1992 (Cont'd)

3330	COFFEE ETC
3400	FREDERICKS HOLLYWD
3450	PETITE SOPHISTICATE
3600	CRIMPERS
3670	RED BOY PIZZA
3680	PAPITAL&CO OUTLET
3800	CAREN CHARLES
3840	COUNTY SEAT STORES
3950	THE GARAGE
4050	WILSONS SUEDE<HR
4100	PAC SUNWEAR OF CA
4150	THIS END UP FRNTR
4200	HUDSON GOODMAN
4300	SPORTS STUFF
4400	ELECTRONICS BOUTQ
4450	THINGS REMEMBERED
4500	KAY JEWELERS
4650	SHOE STOP L&L RPR
4700	LAS MANOS
4890	ALADDINS CASTLE
4980	YOGURT WORLD USA
5010	MERVYNS DEPT STORE
5015	PAYLESS SHOESOURCE
5020	MUSICLAND
5030	SBARROS ITAL EATERY
5035	YES BURGERS&MALTS
5040	CLAIRES BOUTIQUES
5060	SEES CANDIES
5151	COBBIE SHOE SHOP
5200	MRS FIELDS COOKIES
5250	NATURALIZER
5300	PATRICIA BATH INTRS
5318	PLUMB GOLD
5320	INTRIGUE
5330	G&G HOME VIDEO GMS
5332	ORANGE JULIUS
	ORANGE, JULIUS
5336	MONOGRAM EXPRESS
5350	NORTHGATE FLOWER SH
5400	PRINTS PLUS
5500	PATTI ANNS HALLMARK
5600	EXPRESSLY PORTRAITS
5800	ATHLETES FOOT THE
	BLOCKBUSTER VIDEO
	C I S I
	CARDS N SUCH
	LANE BRYANT
	NORTHGATE MALL MNG
	RAVE NO 605
	STRIDE RITE BOOTERY

NORTHGATE MALL 1992 (Cont'd)

5800 VIDEOCONCEPTS
WHEREHOUSE RECORDS
YOUNG AT HEART
5820 FRIEDMAN MKTG OF CA
5830 MCDONALDS RSTRNT
5835 JHAN THONG
JHAN, THONG
5840 TACO BELL
5850 SKEWERS
5860 1 POTATO 2 INC
5870 MOONDOGGIES
5880 CHINESE COMBO KING
6040 C&R CLOTHIERS
6080 CLOTHES TIME THE
6100 RADIO SHACK
6140 KINNEY SHOES
6170 DOUBLEDAY BOOKSHOP
7020 DECK THE WALLS
7030 XTRAS
7070 TOUCH OF ELEGANCE
7090 GENL NUTRITION CNTR
7114 HUNGRY HOUSE REST
7120 RITZ CAMERA&PHOTO
7500 EUREKABANK
8950 T SHIRTS PLUS
8960 FAVORS
8970 COTTON KIDS
8985 FAIRFAX FRNCH LNDRY
8990 LACOQUETTE NAIL CRE
9000 BLOCK H&R
SEARS ATMTV SALES

DEL PRESIDIO BLVD 1986

DEL PRESIDIO BLVD

94903 SAN RAFAEL

929	TERRA LINDA UN 76	479-0266
930	BRENDELS EXXON SERV	472-1744 +8
949	CHEVRON STA SH	499-6930 4
	RON SABACA CHEVRON	499-9990 5
	SABACA H CHEVRON SV	499-8090 1
950	DOLLAR RENTY A CAR	445-1020 +8
	NORTHGATE SHELL	479-8222 3
★	7 BUS	0 RES
		2 NEW

LAS GALLINAS AVE 1986

LAS GALLINAS AV 94903

SAN RAFAEL

TERRA LINDA AREA

100	XXXX	00	
101	MAY WM	479-4015	
200	JONES ALLAN D	479-9175	
201	FAUSTINE J	479-9039	
203	AMANS GEO	479-4058	
205	XXXX	00	
207	DANIELS KRISTA	492-0812	5
209	XXXX	00	
211	CLIFFORD MICHAEL J	472-7960	+6
212	XXXX	00	
213	ANDREWS RORT W	472-3753	1
215	DACANAY RAYMOND	472-4200	4
216	CALLAHAN J W JR	472-1994	0
217	JUKOV BORIS	479-9019	
219	SIDERIS PLUTARCH M	479-4770	
300	GREAT WESTERN SVGS	479-5430	3
	GREAT WSTRN SAVINGS	472-7530	0
350	XXXX	00	
400	LUCKY SYORES INC	479-4415	1
418	LA PETITE BLNGR	472-8859	+6
424	FREUS OF MARIN	472-1926	7
430	INTL GODRMET DELI	479-5160	
442	LONCS DRUG MAIN TL	479-6070	
	LORCS DRUG PHOTO TL	479-6123	
	LONGS DRUG PRSCRPTN	479-9171	
444	HAIRCRAFTERE	472-2226	+6
448	IN&OUT OHE HR PHOTO	492-0555	4
454	RADIO SHACK	472-1937	7
470	BIG FIVE SPRNG GDE	479-0423	2
464	BEAUTY SYORE&MORE	479-2450	4
496	GOODYEAR AUTO SRVC	479-3300	
550	AMER SAVINGS&LOAN	472-1600	3

NORTHGATE DR(NORTHGATE MALL) 1986

2000	PLORSHEM SHOE SHPS	472-7020	+6
2001	STYLON	472-0288	1
2100	MARGUERITES ALTRTMS	492-1325	+6
	MODERN EYE SHOP	479-5700	
2200	HASTINGS	472-1212	
2300	GALLENKAMP STORES	499-9985	2
2400	GRANAT BROS JEWELER	479-8800	
2440	DAVIDS	479-8192	
	DAVIDS GEM LAB	479-0760	5
	TRAVE INTL	479-7026	4
2450	CAFE VIENNA	479-0136	1
2480	ARAO MICHAEL OO	472-7048	+6
2461	PUORRO ROBERT OO	472-3800	5
2500	BANK AM VERSATELLER	499-3200	+5
2600	MOBILIA	479-3213	3
2640	LIMITED TIME	499-8888	3
2650	BEST PROD OO SHOWRM	479-1160	5
2700	SATHIQUE	472-3290	
2750	DESIGNS FOR LIVING	479-8160	
3000	WENDYS HAMBURGERS	492-1668	+5
3020	BENJAMINOS FOOD&WNE	472-3354	+6
3080	VOGUE ALLEY	492-1988	+6
3100	CLOCKS PLUS	472-4480	7
3310	MUSICLAND	479-2232	
3320	ZALES JEWELERS	472-4104	2
3330	COFFEE ETC	479-6336	
3400	HENRI FASHN APPAREL	472-2102	0
3500	VIDEOLA	492-8900	+6
3600	ESSER P BTY WRKS	472-7262	8
	PETER ESSER BTY WRK	472-7252	
	SALON THE	472-7262	+6
	THE SALON	472-7262	+6
3700	LEEDS SHOE STORE	492-1198	+6
3800	LIVINGSTON BROS	479-9120	
3900	SOMMER&KAUFMANN	499-8402	+6
4000	DETOUR LUGGAGE	479-8360	4
4400	PANTWORKS	472-0151	+6
4800	LITTLE DAISY THE	472-7920	7
4900	SEES CANDIES INC	472-1707	1
5100	INTL GIFTS SAN RAF	479-7160	7
5200	MRS FIELDS COOKIES	479-0510	+6
5250	GENL NUTRITION CNTR	499-9673	1
5400	HICKORY FARMS OF CH	479-5330	3
5500	ABBEY HALLMARK	479-0858	+6
5600	HAAGEN DAZS ICE CRM	472-4022	4
5800	MST PROPERTIES INC	479-5955	3
	NORTHGATE MALL MNG	479-5955	
8010	AMER ACCENTS	492-9734	5
6040	GRODINS	472-5300	9
6080	FOXMOOR CASUALS	472-3234	+6
6100	A T & T PHONE CNTR	499-1419	5
6140	IGRMEY SHOES	472-5680	2
6170	DOUBLEDAY BOOKSHOP	479-3232	4
7020	ONECROS RESTAURANT	492-0360	+6
7030	STRIBLEYS GIFTS	479-4436	4
7050	CALIF COOKWARE	479-4994	0
7070	TOUCH OF ELEGANCE	472-2216	+6
7090	LE PANIER PICNIC	492-1149	+6
7114	HUNGRY HOUSE REST	472-4020	8
7120	BODY OPTIONS	479-3699	3
	PARKLANE HOBIERY	479-3699	
7280	CLYDES HAIRCARE	479-4060	
7500	EUREKA FED EYNGS&LN	479-4804	
9000	ALLSTATE INK CO	479-2055	4
	ALLSTATE SAVINGS&LN	472-4780	5
	COLDWELL BANKER	472-4321	5
	COLDWELL BKR RSDNTL	472-4321	
	DEAN WITTER	472-4151	5
	SCHWIMMER GLENN DR	472-3670	
	SEARS CATALOG ORDER	499-9100	+6
	SEARS CATALOG ORDER	472-5860	1
	SEARS FIN ALLST IRS	479-2065	5
	SEARS FIN ALLST SAV	472-4760	5
	SEARS FIN CALDWELL	472-4321	5
	SEARS FIN DEAN WTR	472-4151	5
	SEARS RETAIL STORES	472-3670	
	SEARS SAVINGS BANK	472-4780	
NO #	WALDENBOOKS	479-4474	4
NO #	ZIMS RESTAURANTS	479-9383	0
NO #	ZIMS RESTAURANTS	479-9384	0
*	106 BUS	0 RES	24 NEW

DEL PRESIDIO BLVD

1981

DEL PRESIDIO BLVD 94903 SAN RAFAEL

929	TERRA LINDA UN 76	479-0296	6
930	BRENDELS EXXON SV	472-1744	4
949	HARRY SABACA CHEVRON	479-9950	
	SABACA H CHEVRON	499-9950+1	

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DEL PRESIDIO BLVD 1981

MARIN



..DEL PRESIDIO BLVD

94903 CONT..

950 NORTHGATE SHELL

479-6222 5

★ 5 BUS 0 RES

1 NEW

LAS GALLINAS AVE 1981

LAS GALLINAS AV 94903
SAN RAFAEL

TERRA LINDA AREA

100	XXXX	00
101	MAY WM	479-4015
200	JONES ALLAN D	479-9175
201	FAUSTINE J	479-9039
203	AMANS GEO	479-4058
205	BETZ RUDOLPH	479-1327
207	ROGOVOY D A	472-3291 7
	ROGOVOY DANL J	479-2388 4
209	XXXX	00
211	YATES EMERSON	479-9629
	YATES HAZEL	479-9629
212	ETCHEVERRY JEAN	479-4828
213	ANDREWS ROBT W	472-3753 +1
216	CALLAHAN J W JR	472-1994 0
217	JUKOV BORIS	479-9019
219	SIDERIS PLUTARCH M	479-4770
300	GREAT WSTRN SAVINGS	472-7530 0
350	SAFEWAY STORES	479-6111+1
400	LUCKY STORES INC	479-4415+1
424	FREDS OF MARIN	472-1928 7
430	INTL GOURMET DELI	479-5160
442	LONGS DRUG MAIN TL	479-6070 5
	LONGS DRUG PHOTO TL	479-6123 6
	LONGS DRUG PRSCRPTN	479-9171 4
444	CUT & CURL	472-2226+1
	CUT&CURL EDIE ADAMS	472-2226 9
448	RICHARDS STATIONERY	479-2455 8
454	RADIO SHACK	472-1937 7
470	BIG 5 SPORTNG GOODS	479-0423 4
484	PRICELESS	472-2111 9
496	GOODYEAR TIRE&RUBBR	479-3300
550	AMER SAVINGS&LOAN	472-1600
600	WELLS FARGO BANK NA	456-7100 0
630	GLENDALE FDRL SVNGS	472-7900 0
650	XXXX	00
660	XXXX	00
662	FOX MELVIN B DR	472-2020
664	ASIANO JOS REALTOR	479-9232
666	ALBERT RICHARD H	479-6540
	STICK THOMAS H DDS	479-6540 0

NORTHGATE DR(NORTHGATE MALL) 1981

2000	FLORSHEIM SHOE	499-9996+1
2001	STYLON	472-0298+1
	SUNSHINE HAIR CO 1	472-0298 2
2050	XXXX	00
2100	MODERN EVE SHOP	479-5700
2200	HASTINGS	472-1212
2300	GALLENKAMP STORES	479-9985 2
2400	GRANAT BROS JEWELER	479-6600
2440	DAVIDS	479-6102 5
2450	CAFE VIENNA	479-0136+1
2460	PETERS FORMAL WEAR	472-0680 7
2500	BK OF AM T LINDA	499-3154+1
	BK OF AM T LINDA	499-3159+1
	BK OF AM T LINDA	499-3153+1
	BK OF AM T LINDA	499-3140+1
2600	NORTHGATE THEATRE	472-1243 2
	NORTHGATE THEATRE	472-1242 4
2650	SLOANE W&J	479-2550
2700	BATHTIQUE	472-3290 2
2750	DESIGNS FOR LIVING	479-8180 5
3000	ROOS ATKINS TRAVEL	479-0824 8
3100	CLOCKS PLUS	472-4480 7
3200	GOOD VIS	479-7268 2
3250	GLORIA MARSHALL SLN	472-2271 5
	MARSHALL G FGR SLNS	472-2271 9
3310	MUSICLAND	479-2232 5
3320	BEADAZZLED	479-1303 7
3330	COFFEE ETC	479-6336
3400	HENRI FASHN APPAREL	472-2102 0
3500	ARTYS	479-5240 0
3600	ESSER P BTY WRKS	472-7282 8
	PETER ESSER	472-7282
3700	LEEDS SHOE STORE	479-9822
3800	LIVINGSTON BROS	479-9120
3900	RAG DOLL SMR&KFMN	479-9031+1
	SOMMER&KAUFMANN	479-9776 6
4000	MCKENZIES	479-6550 4
4400	CATANIA SOUND INC	479-7043+1
4700	XXXX	00
4800	LITTLE DAISY THE	472-7920 7
4900	SEES CANDIES INC	472-1707+1
5000	PAY LESS DRUG STORE	472-3781 4
	PAY LESS DRUG STORE	479-7181 5
5050	WALDEN BOOK STORE	479-4474
5100	INTL GIFTS SAN RAF	479-7100 7
5200	FIELDS MRS CHCLT CH	472-6960+1
	MRS FIELDS CHOC	472-6960+1
5250	GENERAL NUTRITION	479-9873 5
	GENL NUT CTR	499-9873+1
5300	BROTHERS 4 SHOP	472-7440 6
5400	ADRIANN OF MARIN	479-8221
5500	ABBAY HALLMARK	479-6658 5
5600	AMER EXPRESS TRAVEL	479-2652
5800	M&T INCORPORATED	479-5955
	NORTHGATE MALL MNG	479-5955
6000	XXXX	00
6010	MCCURRYS CAMERA STR	479-6818 9
6030	SHOE DEN	472-3336 9
	VILLAGE SHOE DEN	472-3336 5
6040	GRODINS	472-5300 9
6080	FOXMOOR CASUALS	479-9978 0
6100	XXXX	00
6140	KINNEY SHOE STORE	479-9961 4
6170	BRENTANOS	479-4660 4
7020	DOUBLE FAULT	479-4711 0
7030	DETOUR LUGGAGE	479-9300 6
7050	CALIF COOKWARE	479-4994 0
7070	PANTWORKS	472-0151 8
7090	SILVER LINGIN	479-9404+1
7110	MONTE CARLO	472-0888 8
7114	HUNGRY HOUSE REST	472-4020 8
7120	PARKLANE HOSIERY	479-3899 4
7260	CLYDES HAIRCARE	479-4060 5
7440	XXXX	00
7500	EUREKA FED SVGNS&LN	479-4804 4
9000	ALLSTATE INS CO	479-2055 4
	SCHWIMER GLENN DR	472-3670+1
	SEARS ROEBUCK&CO	472-3670+1
	SEARS ROEBUCK&CO CT	472-5860+1

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DEL PRESIDIO BLVD 1977

DEL PRESIDIO BLVD 94903 SN RAFAEL

929*	TERRA LNDA UN 76	479-0296	6
930*	BRENDELS EXXON SV	472-1744	4
949*	HARRY SABACA CHVRON	479-9950	
	*SABACA HARRY CHEVRN	479-9950	
950*	NORTHGATE SHELL	479-6222	5
*	5 BUS	0 RES	0 NEW

LAS GALLINAS AVE 1977

LAS GALLINAS AV 94903 SN RAFAEL

TERRA LINDA AREA

100	XXXX	00
101	MAY WM	479-4015
200	JONES ALLAN D	479-9175
201	FAUSTINE J	479-9039
203	AMANS GEO	479-4058
205	BETZ RUDOLPH	479-1327
207	ROGOVOY D A	472-3291+7
	ROGOVOY DANL J	479-2388 4
209	XXXX	00
211	YATES EMERSON	479-9629
	YATES HAZEL	479-9629
212	ETCHEVERRY JEAN	479-4828
213	WALKER WM RAY	479-4904
216	SODEN L W	479-4394
217	JUKOV BORIS	479-9019
219	SIDERIS PLUTARCH M	479-4770
350	XXXX	00
424*	FREDS OF MARIN	472-1928+7

LAS GALLINAS AVE 1977

..LAS GALLINAS AV 94903 CONT..
 430*INTERNATL GOURMET 479-5180
 442*LONGS DRUG ST PHOTD479-6123 6
 *LONGS DRUG STORE 479-9070 5
 *LONGS DRUG STORES 479-9171 4
 444*CUT&CURL EDIE ADAMS472-2226
 *EDIE ADAMS CUT&CURL472-2226
 448*CHESTERMANS HME CTR479-6022 4
 454*RADIO SHACK 472-1937+7
 470*BIG 5 SPORTING GDS 479-0423 4
 484*EARRING HOUSE 472-2111+7
 496*GOODYEAR TIRE&RUBBR479-3300
 550*AMER SAVINGS&LOAN 472-1600
 600*WELLS FARGO BANK NA479-0300
 650*FACTORY MTL ENGNRNG472-1770 2
 660 XXXX 00
 662*FOX MELVIN B DR 472-2020
 664*ASIANO JOS REALTOR 479-9232
 666 ALBERT RICHARD H 479-6540
 668 XXXX 00
 670*METROPOLITAN LIFE 479-5115
 *TANNER LORNE A 479-8166

NORTHGATE DR(NORTHGATE MALL) 1977

2000*FLORSHEIM SHOE SHPS	479-9996	7
2001*SUNSHINE HAIR CO	472-0298	2
2050*OXFORD SHOP	479-5100	
2100*MODERN EVE SHOP	479-5700	
2200*HASTINGS	472-1212	
2300*GALLENKAMP STORES	479-9985	2
2400*GRANAT BROS JEWELER	479-6600	
2440*DAVIDS	479-6102	5
2450*ZANZES	479-0136	
2460*PETERS FORMAL WEAR	472-0680	7
2500*BANK DF AM SAN RAFL	457-6000	6
2600*MOTION PCTR LCL 811	479-3091	6
*NORTHGATE THEATRE	472-1243	2
*NORTHGATE THTR INFO	472-1242	4
2650*SLOANE W&J	479-2550	
2700*BATHTIQUE	472-3290	2
2750*DESIGNS FOR LIVING	479-8180	5
*INTERIOR SYSTEMS	479-8180	
3100*CLOCKS PLUS	472-4480	7
3200*GOOD VIS	479-7268	2
3250*GLORIA MARSHALL SLN	472-2271	5
*MARSHALL G FIGR SLN	472-2271	5
3310*MUSICLAND	479-2232	5
3320*BEADAZZLED	479-1303	7
3330*COFFEE ETC	479-6336	
3400*SINGER COMPANY THE	472-1281	
3500*CRYSTAL ROOM LNG	479-5240	
3600*LADY BUG COIFFEURS	472-1712	
3700*LEEDS SHOE STORE	479-9822	
3800*LIVINGSTON BROS	479-9120	
3900*SOMMER KAUFMANN	472-3852	7
*SOMMER&KAUFMANN	479-9776	6
4000*MCKENZIES	479-6550	4
4400 CATANIA CHAS J	479-7043	7
*CATANIA SOUNO INC	479-7043	4
4700 XXXX	00	
4800*FRANK MORE	479-3053	
*LITTLE DAISY THE	472-7920	7
4900*SEES CANDIES INC	472-1707	
5000*PAY LESS DRUG STORE	472-3781	4
*PAY LESS DRUG STR	479-7181	5
5050*WALDEN BOOK STORE	479-4474	
5100*INTL GIFTS SAN RAF	479-7100	7
5200*MOTHER TO BE MATRNY	479-7137	
5250*GENL NUTRITION CNTR	479-9873	5
5300*BROTHERS & SHOP	472-7440	6
5400*ADRIANN OF MARIN	479-8221	
5500*ABBAY GIFT SHOP	479-6658	5
*ABBAY RENTS&SELLS	383-6144	5
5600*AMER EXPRESS CO	479-2652	
5800*M&T INCORPORATED	479-5955	
*NORTHGATE MALL MNG	479-5955	
6000 XXXX	00	
6010*REGAL SHOE SHOP	479-4246	4
6030*FOXMOOR CASUALS	479-9978	4
*SHOE DEN	472-3336	4
*VILLAGE SHOE DEN	472-3336	5
6040*CHANDLERS FABRICS	472-1444	6
*FABRICS CHANDLERS	472-1444	2
6100*PAPSIES	472-4333	4
6140*KINNEY SHOE STORE	479-9961	4
6170*BRENTANOS	479-4660	4
7020 SHERMAN CLAY	479-7013	5
7030*DETOUR INC	479-9300	6

NORTHGATE DR(NORTHGATE MALL) 1977

7050*	ACCESSORIES UNLMTD	479-3512	4
7070*	JEZEBELLE	472-2207	5
7090	XXXX	00	
7110*	AMER HANDICRAFTS CO	479-1683	7
7114*	BUMBLEBERRY BSTRNT	479-9700	7
7120*	PARKLANE HOSIERY	479-3699	4
7260*	CLYDES HAIRCARE	479-4060	5
7440	XXXX	00	
7500*	EUREKA FDRL SVGS&LN	479-4804	4
9000*	ALLSTATE INSURANCE	479-2055	4
	POLSTER PHILLIP	479-6605	4
	*SEARS ROEBUCK CATLG	472-5860	6
	*SEARS ROEBUCK RETL	472-3670	4
NO #*	LYONS RESTAURANT	479-9383	
NO #*	RODS ATKINS	479-4144	
	* 73 BUS	7 RES	10 NEW

DEL PRESIDIO BLVD 1973

DEL PRESIDIO BLVD 94903 SN RAFAEL

929*TERRA LINDA UN CIL 479-0296+2
*WENDLER HELMUT 479-0296
930*BRENDELS ENCO SERV 472-1744
*HERTZ RENT A CAR 479-3710
949*HARRY SABACA CHVRCN479-9950
*SABACA HARRY CHEVRN479-9950
950*AL PERRONS SHELL 479-6222
*AVIS RENT A CAR 479-3040
* 8 BUS 0 RES 1 NEW

LAS GALLINAS AVE 1973

LAS GALLINAS AV 94903 SN RAFAEL

TERRA LINDA AREA

100	XXXX	00
101	MAY WM	479-4015
200	JONES ALLAN D	479-9175
201	FAUSTINE J	479-9039
203	AMANS GEO	479-4058
205	BETZ RUDOLPH	479-1327
207	JENSEN THOMAS	479-8955
209	DELLAMORA FEDERICO	479-4949+2
211	YATES EMERSON	479-9629
	YATES HAZEL	479-9629
212	ETCHEVERRY JEAN	479-4828
213	WALKER WM RAY	479-4904
216	SODEN L W	479-4394
217	JUKOV BORIS	479-9019
219	SIDERIS PLUTARCH M	479-4770
350*	PURITY STRES INC	48479-7723+2
424*	LOS RANCHITOS BRBRS	479-9869+2
430*	INTERNATL GOURMET	479-5180
442*	LONGS DRUG STORES	479-9070+2
444*	CUT&CURL EDIE ADAMS	472-2226
	*EDIE ADAMS CUT&CURL	472-2226
448*	CHESTERMANS HM EQPT	479-6022+2
470*	SPORTS LAND CORP	479-0423
496*	GOODYEAR TIRE&RUBBR	479-3300
550*	AMERICAN SVGS&LOAN	472-1600
600*	WELLS FARGO BANK NA	479-0300
650*	FACTORY MTL ENGRNG	472-1770+2
660*	EDUCATIVE SVS CNTR	456-2777
662	FOX MELVIN B DR	472-2020
664*	ASIANO JOS REALTOR	479-9232
666	ALBERT RICHARD H	479-6540
670*	METROPOLITAN LIFE	479-5115

NORTHGATE DR(NORTHGATE MALL) 1973

2000*FLORSHEIM SHOE SHPS 472-1221
2001*GAY NINETIES BARBER 472-0298+2
*SUNSHINE HAIR CO 472-0298+2
2050*OXFORD SHOP 479-5100
2100*MODERN EVE SHOP 479-5700
2200*HASTINGS 472-1212
2300*GALLENKAMP STORES 479-9985+2
2400*GRANAT BROS JEWELER 479-6600
2440*DRAKES FSHN JEWELRY 479-3633
2450*ZANZES 479-0136
2460*LORE JAN 479-3123
2500*BANK OF AMER NT&SA 479-4200

key punched entered into a computer or photocopied in any manner

NORTHGATE DR(NORTHGATE MALL) 1973

2600*MOTN PICTRE PROJCTN479-3091
 *NORTHGATE THEATRE 472-1243+2
 2650*SLOANE W&J 479-2550
 2700*BATHTIQUE 472-3290+2
 *GILBERT W V 479-5070
 2750*INTERIOR SYSTEMS 479-8180
 3100*MILENS JEWELERS 479-4115
 3200*GOOD VIS 479-7268+2
 3250*MARSHALL G FIGR SLN472-2271
 3310*MUSIC BOX 479-2232
 3320*BELLA BOUTIQUE 479-2672
 3330*COFFEE ETC 479-6336
 3400*SINGER COMPANY THE 472-1281
 3500*CRYSTAL ROOM LNG 479-5240
 3600*LADY BUG COIFFEURS 472-1712
 3700*LEEDS SHOE STORE 479-9822
 3800*LIVINGSTON BROS 479-9120
 *LIVINGSTONS BTY SLN479-8294
 3900*SOMMER&KAUFMANN 479-4481
 4000 XXXX 00
 4400*MCKENZIE CHLDN BTRY479-6550
 4700 XXXX 00
 4800*FRANK MORE 479-3053
 *MORE FRANK 479-3053
 4900*SEES CANDIES INC 472-1707
 5000 XXXX 00
 5050*WALDEN BOOK STORE 479-4474
 5100*STRIBLEYS CHINA&GFT479-3221
 5200*MOTHER TO BE MATRNY479-7137
 5250*GENL NUTRITION CNTR479-9873
 5300*ELEGANT ROOM 479-2101
 5400*ADRIANN OF MARIN 479-8221
 5600*AMERICAN EXPRESS CO479-2652
 5800*M&T INCORPORATED 479-5955
 *NORTHGTE MALL MANGT479-5955
 6000*BALDWIN CONTRACTING479-3434
 6040*CHANDLERS FABRICS 472-1444+2
 *FABRICS CHANDLERS 472-1444+2
 NO **AMERICAN CONTRACTNG479-8087+2
 NO **CORINTHIAN HOLDINGS472-3544+2
 NO **LYONS RESTAURANT 479-9383
 NO **PAN AM NO JOINT CO 472-3544+2
 NO **ROOS ATKINS 479-4144
 NO **UNITED TRAVEL SERV 479-3085
 NO **WOLF R J 479-1478+2
 * 55 BUS 3 RES 12 NEW

DEL PRESIDIO BLVD 1968

DELPRESIDIO BLVD -FROM LOS
RANCHITOS WAY 1 SOUTH OF
FREITAS RANCH RD

---ZIP CODE 94903

929 UNION OIL SERVICE GAS STA
479-0296

930 BRENDL'S ED ENCO SERVICE GAS
STA 472-1744

949 SABACA'S HARRY CHEVRON
SERVICE GAS STA 479-9950

950 PERRON'S AL NORTHGATE SHELL
GAS STA 479-6222

LAS GALLINAS AVE 1968

18
 LAS GALLINAS AV -FROM CITY LIMITS
 SOUTH 1 EAST OF NOVA ALBION WAY

---ZIP CODE 94903
 NORTHGATE SHOPPING MALL
 ---{FOR TENNANTS SEE NORTHGATE
 ---SHOPPING MALL)
 300 MAXWELL EDW H DENTIST
 479-1018
 JACOBS RALPH W PHYS 479-1022
 MC CORMICK THOS E PHYS
 479-1022
 JOHNSON DAVID L PHYS 479-1022
 350 PURITY STORES GRO 479-7711
 LADY BALTIMORE BAKERY
 479-1510
 600 WELLS FARGO BANK (NORTHGATE
 OFC) 479-0300
 670 METROPOLITAN LIFE INSURANCE
 CO 479-5115
 750 NORTHGATE MEDICAL-DENTAL
 BUILDING
 ROOMS
 750 VALASELS A D DENTIST 479-6464
 102 WEDEEN ELMER A JR PHYS
 479-6333
 103 PHYSICIANS OPTICAL CO
 479-8400
 104 MARIN MEDICAL PHARMACY
 479-1930
 107 VACANT
 108 STEWART ROBT B PHYS
 479-3882
 110 KRUEGER J CARROLL PHYS
 479-3701
 112 VACANT
 113 ROSOLIA O G PATHOLOGIST
 479-4220
 113 TERRA LINDA MEDICAL
 LABORATORIES 479-4220
 113 WYNN THOS PATHOLOGIST
 479-4220
 115 KLASSEN DONALD B
 PODIATRIST 479-5212
 116 WILLIAMS BRIAN H PHYS
 479-2372
 202 HARVEY DONALD PHYS
 479-5660
 205 TAYLOR DAVID R
 DERMATOLOGIST 479-3003
 206 SWIECONEK JOHN A PHYS
 479-5440
 207 BAUER F HENNING PHYS
 479-4370
 207 LANGFORD WM. C PHYS
 472-1372
 207 SAWYER HARRY W PHYS
 479-9400
 207 SMITH GREGORY PHYS
 479-4370
 211 BURNELL GEO M
 PSYCHIATRIST 479-3660
 211 PEEK CHARLES B PHYS
 479-7080
 212 HILL GERALD PSYCHIATRIST
 472-1725
 213 DONOVAN JAMES F
 PSYCHIATRIST 479-4480
 214 GRAYSON JOSEPH A DENTIST
 479-5198
 215 RUNES GARY W DENTIST
 479-4977
 216 HEON L MICHL DENTIST
 479-7414
 217 GILLOOLY CHARLES J
 DENTIST 479-2623
 217 SIGLER M EUG DENTIST
 479-2623
 825 NORTHGATE APARTMENTS
 102 PATTERSON JAMES

✓

LAS GALLINAS AVE 1968

LAS GALLINAS AV—Contd
Northgate Apts—Contd

103 YOST RUDY 479-0644
 104 PANTENBURG ELOISE
 479-6577
 105 HADDOCK OWEN 479-6325
 106 BUCHANAN NANCY MRS
 472-1748
 107 NEEDHAM LEONARD
 108 NEAL JAMES H 472-1717
 109 VON FRANK V E
 110 ALLOTO CARLO
 111 STRIBLEY A R
 201 FROST HARLEN
 202 CLARK ROSEMARY
 203 ZINNECKER THERESA
 479-6156
 204 KOENIG JAMES H 479-5632
 205 RAVICZ LOUISE 479-3672
 206 WADICK OLIVE J 479-0457
 207 CHRISTIANSEN JACK
 479-8633
 208 MARINOFF ROSE
 209 BAKKEN ALF D 479-3347
 210 KUNATH CHARLES W
 211 SPICER CARL H 479-0682
 212 JERVIS JOAN
 214 BISDORF ROBT 479-6023
 215 KOFIOL THEO
 216 SOUTER CRAIG 479-6427
 217 PIXLEY MARK 479-0720
 218 DIORIO D A
 219 PHALON WINFRED MRS
 479-0394
 220 JOHNSON AVIS
 225 LEIONS RICHD
 302 CONNER DONALD 479-8923
 303 ROBINSON OSCAR 479-1031
 304 LANGRELL LYNN
 305 STEBLEP HUGO 479-0617
 306 MIRAVALLE ANDREW N
 479-9074
 307 MAMALAKES PAUL
 308 APOSTOL JOHN 479-9084
 309 WEBER BURRELL 479-6181
 310 DAWSON MARGT
 311 CROTTY JOSEPH 479-0777
 312 JULIAN ELMER
 314 VACANT
 315 WALKER RONALD 479-5690
 316 MURPHY P 479-6838
 317 SCHARTON FERRIS 479-2543
 318 CURTIN'S FREIGHT SERVICE
 FREIGHT HAULING 479-8762
 CURTIN JOSEPH 479-8762
 319 MAVOROMMATAKIS URSULA
 479-2207
 320 BURREN J MELVIN 479-0716

NORTHGATE DR(NORTHGATE MALL) 1968

2000 FLORSHEIM SHOE SHOP 472-1221
GAY NINETIES BARBER SHOP
479-9955

2050 OXFORD SHOP THE MEN'S CLO
479-5100

2100 MODERN EVE WOMEN'S CLO
479-2151

2200 HASTING'S 472-1212

2300 GALLENKAMP'S SHOES 479-9839

2400 GRANAT BROS JWELRS 479-6600

2440 DRAKE'S JEWELRY 479-3633

2450 PARSONS OPTICIANS 479-8111

2460 LORE JAN CLO 479-3123

2500 BANK OF AM NATL TR & SAV
ASSN (TERRA LINDA BR)
479-4200

2600 NORTHGATE THEATRE 472-1242

3000 ROOS-ATKINS CLO 479-4144

NORTHGATE DR(NORTHGATE MALL) 1968

Contd

3100 MILEN'S JEWELERS 479-4115
 3200 VACANT
 3320 CASUAL AIRE CLO 479-2672
 3330 COFFEE ETC COFFEE & TEA
 479-6336
 3700 LEED'S SHOES 479-9822
 3800 LIEBES H WOMEN'S CLO
 472-1224
 3900 SOMMER & KAUFMANN SHOES
 479-4481
 4000 CHANDLER'S WARP'N WOOF THE
 DRY GDS 472-1444
 4600 VACANT
 4700 HOUSE OF NINE CLO 472-1703
 4800 MORE FRANK SHOES 479-3053
 4900 SEE'S CANDIES 472-1707
 WALDEN BOOK STORE
 5000 CITY OF PARIS CLO 472-1200
 5100 STRIBLEY'S CHINA-CRYSTAL
 479-3221
 5150 VACANT
 5400 ADRIENNE'S WOMEN'S CLO
 479-8221
 5440 VACANT
 5800 NORTHGATE SHOPPING MALL
 (MANAGEMENT OFFICE)

DEL PRESIDIO BLVD

1963

18

DELPRESIDIO BLVD -FROM
LOS RANCHITOS WAY 1
SOUTH OF FREITAS RANCH

929 UNION OIL SERVICE GAS
STA 479-0296

949 SABACA'S HARRY
CHEVRON SERVICE GAS
STA 479-9950

Sanborn Fire Insurance Maps



Northgate Town Square

5800 Northgate Drive

San Rafael, CA 94903

Inquiry Number: 6628473.3

August 20, 2021

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/20/21

Site Name:

Northgate Town Square
5800 Northgate Drive
San Rafael, CA 94903
EDR Inquiry # 6628473.3

Client Name:

Roux Associates Inc
555 12th Street Suite 250
Oakland, CA 94607
Contact: Emma Totsubo



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 76A8-4B54-B88D
PO # NA
Project Northgate Town Square

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 76A8-4B54-B88D

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- Library of Congress
- University Publications of America
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Freedom of Information Act Document
Requests & Responses
(FOIA)

Emma Totsubo

From: Public Records <PublicRecords@baaqmd.gov>
Sent: Thursday, August 26, 2021 6:59 PM
To: Emma Totsubo
Subject: Public Record Request No. 2021-08-0257
Attachments: 1000 Northgate, San Rafael (Closed).pdf

This message originated outside your organization. Please use caution!

Hello,

Enclosed are the records you requested. Please submit a request for 5800 Northgate. If you have any questions or concerns, please call or e-mail me. Thank you.

Sincerely,

Rochele Henderson
Public Records Section
BAAQMD
415-516-1916

Emma Totsubo

From: Public Records <PublicRecords@baaqmd.gov>
Sent: Thursday, August 26, 2021 6:59 PM
To: Emma Totsubo
Subject: Public Records Request No. 2021-08-0257

This message originated outside your organization. Please use caution!

Dear Emma Totsubo,

Thank you for your request. We have searched our records and have no records that respond to your below request for:

Northgate Mall
1500, 5000, 5010 Northgate Drive
San Rafael

If you have any questions or concerns, please call or e-mail me.

Sincerely,

Rochele Henderson
Public Records Section
BAAQMD
415-516-1916

Emma Totsubo

From: Public Records <PublicRecords@baaqmd.gov>
Sent: Friday, September 10, 2021 9:07 PM
To: Emma Totsubo
Subject: Public Record Request No 2021-09-0099
Attachments: 5800 Northgate Mall Drive, San Rafael.pdf

This message originated outside your organization. Please use caution!

Hello,

Enclosed are the records you requested. If you have any questions or concerns, please call or e-mail me. Thank you.

Sincerely,

Rochele Henderson
Public Records Section
BAAQMD
415-516-1916

PRR Plant Status

Facility No.: 16243

Facility Name: Macy's West Stores, Inc

Legacy Plant No.: 16243

Facility Address: 1000 Northgate
San Rafael CA , 94903-4903

Legacy Site No.: B6243

Permit Expiration Date: 11/1/2015

Facility Status: Permitted 11/1/2013

NAICS: Fossil Fuel Electric Power Generation
(221112)

Owning Entity: Macy's West Stores, Inc
B135817F16243
Ownership Start Date: 1/1/1976

Current Operator Contact: Business License
Macy's West Stores, Inc
7 W 7th Street, 17th Flr
Cincinnati , OH 45202-5202

Current Owner Contact: Business License
Macy's West Stores, Inc
7 W 7th Street, 17th Flr
Cincinnati , OH 45202-5202
Email:
Tel: -
Alt Tel:
Fax:

Email:

Tel:

Alt Tel:

Fax:

PRR Plant Status

Reported Source Emissions

For Renewal Period 11/1/2013 to 11/1/2015

Source	Facility Source Description	Annual Average lbs/day				
		PM	Org	NOx	SO2	CO
	TOTALS	0.01	0.01	0.15	0.00	0.03

FACILITY TOTALS FOR EACH EMITTED TOXIC POLLUTANT

Pollutant Name	Emissions lbs/day
Diesel Engine Exhaust Particulate Matter	0.01

Historical Facility Information

Facility Status	Status Date	Legacy Facility No.	Facility Name	End Date
		16243	Macy's West Stores, Inc	

Show Permit - Applications By Facility

Facility Number: 16243
Legacy Plant/GDF Number: 16243
Legacy Site Number: B6243
Facility Name: Macy's West Stores, Inc
Facility Address: 1000 Northgate
San Rafael, 94903-4903

Application No.	Legacy Plant/GDF No.	Application Submission Date	Application Name	Current Status	Current Status Date	Application Engineer
<u>10199</u>	16243	7/8/2004	Emergency Generator	Approved	11/16/2004	Laura Melton

PRR Plant Status

Facility No.:	19472	Facility Name:	Northgate Mall
Legacy Plant No.:	19472	Facility Address:	5800 Northgate Mall Dr San Rafael CA , 94903
Legacy Site No.:	B9472	Facility Status:	Permitted 6/1/2019
Permit Expiration Date:	7/1/2022	NAICS:	Lessors of Nonresidential Buildings (except Miniwarehouses) (531120)
Owning Entity:	Northgate Mall B208651F19472 Ownership Start Date: 1/18/2017	Current Operator	Kerry Barnes
Current Owner	Kerry Barnes	Contact:	5800 NORTHGATE MALL STE 200 SAN RAFAEL , CA 94903-6830 Email: kbarnes@merlonegeier.com Tel: (415) 479-5956 Alt Tel: Fax:
Contact:	5800 NORTHGATE MALL STE 200 SAN RAFAEL , CA 94903-6830 Email: kbarnes@merlonegeier.com Tel: 4154795956 Alt Tel: Fax:		

PRR Plant Status

Reported Source Emissions

For Renewal Period 7/1/2021 to 7/1/2022

Source	Facility Source Description	Annual Average lbs/day				
		PM	Org	NOx	SO2	CO
	TOTALS	0.01	0.01	0.25	0.00	0.12

FACILITY TOTALS FOR EACH EMITTED TOXIC POLLUTANT

Pollutant Name	Emissions lbs/day
Diesel Engine Exhaust Particulate Matter	0.01

Historical Facility Information

Facility Status	Status Date	Legacy Facility No.	Facility Name	End Date
Permitted	6/1/2019	19472	MACERICH	1/17/2017
Permitted	7/27/2018	19472	Northgate Mall	

Show Permit - Applications By Facility

Facility Number: 19472

Legacy Plant/GDF Number: 19472

Legacy Site Number: B9472

Facility Name: Northgate Mall

Facility Address: 5800 Northgate Mall Dr
San Rafael, 94903

Application No.	Legacy Plant/GDF No.	Application Submission Date	Application Name	Current Status	Current Status Date	Application Engineer
<u>19652</u>	19472	1/27/2009	Emergency Standby Generator Set	Approved	3/2/2009	Sheryl Wallace



Office of the City Attorney
Robert F. Epstein, City Attorney
Lisa A. Goldfien, Assistant City Attorney

Phone: (415) 485-3080
Fax: (415) 485-3109
Email: city.attorney@cityofsanrafael.org

August 30, 2021

By Email Only: etotsubo@rouxinc.com

Emma Totsubo, E.I.T.
Staff Engineer
Roux
555 12th Street, Suite 250
Oakland, CA 94607

Re: Records Request to the City of San Rafael

Dear Ms. Totsubo:

Your records request emailed to the City Clerk's Office on August 20, 2021, which was received the same day, has been referred to this office for a response. You asked for public records for the following addresses in San Rafael, and you stated you are interested in files available for the entire history of the address, particularly related to land use, hazardous waste, and environmental health (e.g. environmental site assessments, hazardous waste violations, documented releases, permits, etc.):

1. 1000 Northgate Drive,
2. 1500 Northgate Drive,
3. 5000 Northgate Drive,
4. 5010 Northgate Drive,
5. 5800 Northgate Drive,
6. 6000 Northgate Drive,
7. 7000 Northgate Drive,
8. 9000 Northgate Drive.

Enclosed are records responsive to Requests 1 through 4 as listed above. Also enclosed are a portion of the records in response to Request 5 above.

These records, including any building code violations, approved site plans, variances, special permits, and conditional/special use permits can be found on the City's eTrakit website at the following link:

<http://epermits.cityofsanrafael.org/etrakit3/Search/permit.aspx>.

Emma Totsubo, E.I.T.

August 30, 2021

Page 2

Enter the address in the search by address box, or enter the APN without dashes in the search by parcel number box. Each epermit entry has data and attachments, including contact info, fees, plan check comments and inspections.

We are providing copies of the City's records located in connection with hazardous waste and environmental health; however, the City's Deputy Fire Chief advised for information on environmental reports and hazardous materials records, please contact the County of Marin Certified Unified Program Agency (CUPA) administrator at 415-473-6528.

Staff are compiling additional records in response to your requests, but due to time constraints staff will need additional time. We expect to provide those records to you no later than Friday, September 3, 2021 but will respond sooner if possible.

Very truly yours,



LISA A. GOLDFIEN
Assistant City Attorney

Enclosures



Office of the City Attorney
Robert F. Epstein, City Attorney
Lisa A. Goldfien, Assistant City Attorney

Phone: (415) 485-3080
Fax: (415) 485-3109
Email: city.attorney@cityofsanrafael.org

September 3, 2021

By Email Only: etotsubo@rouxinc.com

Emma Totsubo, E.I.T.
Staff Engineer
Roux
555 12th Street, Suite 250
Oakland, CA 94607

Re: Records Request to the City of San Rafael

Dear Ms. Totsubo:

This is in follow up to my August 30, 2021 letter to you regarding your records request to the City of San Rafael asking for public records for the addresses in San Rafael listed below. You stated you are interested in files available for the entire history of the address, particularly related to land use, hazardous waste, and environmental health (e.g. environmental site assessments, hazardous waste violations, documented releases, permits, etc.):

1. 1000 Northgate Drive,
2. 1500 Northgate Drive,
3. 5000 Northgate Drive,
4. 5010 Northgate Drive,
5. 5800 Northgate Drive,
6. 6000 Northgate Drive,
7. 7000 Northgate Drive,
8. 9000 Northgate Drive.

Enclosed are the reminder of records responsive to Request 5 in the folder entitled "5800 Northgate Drive No. 2". Also enclosed are a portion of the records in response to Request 6 in the folder entitled "6000 Northgate Drive". Responsive records may be accessed here.

These records, including any building code violations, approved site plans, variances, special permits, and conditional/special use permits can be found on the City's eTrakit website at the following link:

<http://epermits.cityofsanrafael.org/etrakit3/Search/permit.aspx>.

Emma Totsubo, E.I.T.
September 3, 2021
Page 2

Enter the address in the search by address box, or enter the APN without dashes in the search by parcel number box. Each permit entry has data and attachments, including contact info, fees, plan check comments and inspections.

As stated in my August 30 letter, we are providing copies of the City's records located in connection with hazardous waste and environmental health; however, the City's Deputy Fire Chief advised for information on environmental reports and hazardous materials records, please contact the County of Marin Certified Unified Program Agency (CUPA) administrator at 415-473-6528.

Staff are compiling additional records in response to your requests, but due to the volume of responsive records, staff will need additional time. We expect to provide those records to you by Friday, September 10, 2021.

Very truly yours,



LISA A. GOLDFIEN
Assistant City Attorney

Enclosures

Emma Totsubo

From: Laraine Gittens <Laraine.Gittens@cityofsanrafael.org>
Sent: Tuesday, September 7, 2021 4:51 PM
To: Emma Totsubo
Cc: Lisa Goldfien
Subject: Records Request to the City of San Rafael

This message originated outside your organization. Please use caution!

Hello –

This is in follow up to Assistant City Attorney Lisa Goldfien's 9/3/21 letter to you regarding your 8/20/21 records request below. The remainder of records located for 6000 Northgate Drive and all records located for 9000 Northgate Drive have now been uploaded to the records portal and may be accessed [here](#).

No records were located for 7000 Northgate Drive; however, the City's online records search portal at <http://epermits.cityofsanrafael.org/etrakit3/Search/permit.aspx> shows some activity at this parcel. Enter the address in the search by address box for more information.

Thank you.

Laraine K. Gittens | City of San Rafael
Legal Assistant
Office of the City Attorney
1400 5th Avenue
San Rafael, CA 94901
Tel: (415) 485-3080
Fax: (415) 485-3109



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This email and any attached files are CONFIDENTIAL and PRIVILEGED, intended only for the use of the individual or entity named as the recipient. If you have received this email in error, please destroy it and notify the sender by reply to laraine.gittens@cityofsanrafael.org. Thank you.

From: Lindsay Lara
Sent: Friday, August 20, 2021 4:58 PM
To: Laraine Gittens <Laraine.Gittens@cityofsanrafael.org>; Lisa Goldfien <Lisa.Goldfien@cityofsanrafael.org>; Brenna Nurmi <Brenna.Nurmi@cityofsanrafael.org>
Subject: Fwd: Public Records Request

From: Emma Totsubo <etotsubo@rouxinc.com>
Sent: Friday, August 20, 2021 3:05 PM
To: Distrib- City Clerk
Subject: Public Records Request

Hello,

Roux Associates will be conducting a Phase I ESA for Northgate Mall and would like to request public records for the following addresses in San Rafael:

1000 Northgate Dr
1500 Northgate Dr
5000 Northgate Dr
5010 Northgate Dr
5800 Northgate Dr
6000 Northgate Dr
7000 Northgate Dr
9000 Northgate Dr

We are interested in files available for the entire history of the address - particularly related to land use, hazardous waste, and environmental health (e.g. environmental site assessments, hazardous waste violations, documented releases, permits etc.).

Please reach out if you have any questions.

Thank you,
Emma

Emma Totsubo, E.I.T. | Staff Assistant Engineer

Pronouns: She/her/hers

555 12th Street, Suite 250, Oakland, California 94607

Main: 415.967.6000 | Direct: 415.967.6026 | Mobile: 310.405.5368

Email: etotsubo@rouxinc.com | Website: www.rouxinc.com



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October 9, 2007
Kleinfelder Job No.: 86393

Mr. Phil Abell
The Macerich Company
401 Wilshire Blvd., Suite 700
Santa Monica, CA 90401

**Subject: Geotechnical Report
Northgate Mall Improvements – Interior Floor Slab
5800 Northgate Mall
San Rafael, California**

Dear Mr. Abell:

This letter report presents results of our geotechnical investigation regarding the interior floor slabs within the public access areas of the main mall structure. The floor slab area evaluation is in support of the preliminary design phases of a portion of the proposed Northgate Mall Improvements project.

The Northgate Mall is located at the referenced address, which is south of Las Gallinas Avenue and between Northgate Drive and Los Ranchitos Road, as shown on the Plate 1, Site Location. The mall consists of the main building and three outlying buildings and a parking structure with asphalt concrete-paved parking and driveway areas with some landscape areas covering the site. The main mall structure layout, including the covered public walkways, is shown on Plate 2, Site Plan.

The purpose of this geotechnical study was to obtain sample cores of the floor slabs and evaluate existing soil conditions immediately under various areas of the floor slabs to assist in the planning and design of improvements including possible rehabilitation or replacement of all or portions of the interior floor slabs.

AUTHORIZATION AND SCOPE OF SERVICES

This study was authorized by the Professional Services Agreement dated August 9, 2007, executed by Mr. Mark Klaver of Kleinfelder West, Inc. and Mr. Phil Abell of Macerich Property Management Company, LLC.

Our authorized scope of services relative to the floor slab investigation:

- Concrete coring, shallow exploration, and soil sampling at six (6) locations within the main mall structure to depths of between 1.4 and 2.1 feet.

- Conduct laboratory testing on select samples including moisture content and dry density determination, Atterberg limits, particle size analysis, expansion index, and corrosivity as deemed appropriate.
- Conduct engineering analysis and develop conclusions and/or recommendations regarding:
 - Observations of the condition of the concrete cores
 - Site-specific geotechnical and groundwater conditions
- Preparation of this letter report.

FIELD INVESTIGATION

Our field exploration was performed on August 29, 2007, and consisted of six (6) concrete corings and exploratory borings (C-1 through C-6) at the approximate locations shown on Plate 2. Borings were located in the field by Kleinfelder by taping and pacing from nearby interior walls and building corners, and should be considered accurate to the degree implied by the method used. Before the exploration commenced, the existing parquet wood floor covering was removed, and was to be replaced later, by mall personnel.

The concrete floor slab corings were accomplished with a 4-inch-diameter core barrel. The concrete cores were retrieved and brought to the Kleinfelder laboratory for observation. The borings were advanced using a hand auger and a hand-driven sampling device. Materials encountered in each boring were visually classified in the field and a log was recorded. Samples obtained were removed, examined for logging, labeled, and sealed to preserve their natural moisture content for possible laboratory testing. Upon completion of our drilling and sampling program, the borings were backfilled with neat cement grout up to the top of the floor slab.

A representative of Kleinfelder observed the corings, performed the exploration, logged the conditions encountered and obtained select samples for visual classification and laboratory testing. Visual classifications were made in accordance with the Unified Soil Classification System presented on the Boring Log Legend, Plate A-1. The Log of Exploration Borings C-1 through C-6, showing soil classifications and sample depths, are attached to this report as Plates A-2 through A-7.

LABORATORY TESTING

Selected soil samples were tested in our laboratory to evaluate pertinent engineering and physical properties. The laboratory-testing program evaluated the natural moisture content, density, plasticity, particle size analysis, and expansion index of the soils encountered. Classifications made in the field were modified, as appropriate, based on the laboratory test results. Classifications presented on the test boring logs reflect modifications made as a result of laboratory tests. A summary of most laboratory test results is presented on the Log of Exploration Borings C-1 through C-6 (see Plates A-2 through A-7). The results of the laboratory tests for this investigation are presented on Plates B-1 through B-3. A separate soil sample was

obtained from exploration outside the main mall structure for corrosivity potential of on-site shallow soils. The corrosion potential test results are included in Appendix B.

SITE CONDITIONS

The following summary of conditions encountered in the six test cores drilled for this investigation has been simplified for ease of report presentation. A more detailed description of the conditions encountered is presented on the Log of Exploration Borings (Plates A-2 through A-7).

Concrete Slab-On-Grade Floor Corings

- C-1: Concrete 8.5 inches thick; overlaid with 5.25 inches of red brick with mortar at top and bottom of brick; no steel; no visqueen; 5 inches of sandy gravel bedding; over sandy clay soil. Concrete is porous, weak.
- C-2: Concrete 5.5 to 6 inches thick; no steel; one visqueen membrane at base of concrete; 3 inches of sand bedding; over sandy clay soil. Concrete appears medium to poor quality.
- C-3: Concrete 4.75 inches thick; no steel; one visqueen membrane at base of concrete; no bedding; over sandy clay. Concrete appears medium to poor quality.
- C-4: Concrete 4 inches thick; with 0.25 to 0.5-inch of mortar (possibly used for leveling the surface) on top; with a vertical cold joint; no steel; no visqueen; 2.5 inches of sandy gravel bedding; over clayey sand soil. Concrete appears medium to poor quality.
- C-5: Concrete 3 inches thick; with 0.5-inch of mortar on top; no steel; no visqueen, 2.5 inches of sandy gravel bedding; over sandy clay soil. Concrete appears medium to poor quality.
- C-6: Concrete 2 inches thick; no steel, no visqueen; 2.5 inches of sandy gravel bedding; over clayey sand soil. Concrete appears medium to poor quality.

Subsurface Conditions

In general, based on our review of the recent borings as well as previous borings by others in 1986 and 2005, it appears that the top of the site bedrock, consisting of shale and sandstone, is present near the existing surface in the northwest portion of the property, extending from the vicinity of the north end of Mervyns to the north at the intersection of Northgate Drive and Los Ranchitos Road. The depth to the top of bedrock increases under the mall to the east and south, varying to approximately 13 feet under Macy's at the north end of the mall to an estimated 15 to 16 feet under Sears to the south end of the mall. From the surface (under slabs and pavement) to the top of the bedrock, the borings encountered varying depths of fill, consisting of medium dense to dense silty and clayey gravels and stiff to firm sandy clay, and alluvial soils, generally including medium dense clayey sand and stiff clay.

The on-site subsurface conditions under the floor slab areas consist of medium stiff, moist to wet, sandy clay, sandy clay with gravel, and clayey sand with gravel to the termination depths of approximately 1.4 to 2.1 feet below top of floor slab. These upper soils may be native, particularly at C-1, C-2, C-5 and C-6, or fill constructed of similar soils. A previous boring (Kleinfelder, 1986) within the mall area near the location of C-5 encountered up to approximately 2 feet of "possible fill" over bedrock. The 1986 report included borings B-2 and B-2A where fill was encountered to depths of approximately 9 to 10 feet in the mall mid-way between C-3 and C-5. Another 1986 boring, located near C-4, encountered approximately 9 feet of fill underlain by native sandy clay to a depth of about 14 feet where the top of deeply weathered bedrock was identified.

Groundwater

Groundwater was not encountered in the recent shallow borings but was encountered in the 1986 borings at depths ranging between about 5 and 17 feet below the existing ground surface. The mall was not enclosed at the time of the 1986 borings. Groundwater levels are expected to vary seasonally and will be higher after periods of sustained rainfall. The shallower free water levels encountered are likely to be perched water accumulated in sandy layers in the fill or native soils and not representative of deeper groundwater conditions.

DISCUSSION AND RECOMMENDATIONS

As stated above, this letter report presents results of our geotechnical evaluation regarding the interior floor slabs within the public access areas of the main mall structure in support of the preliminary design phases of the proposed Northgate Mall Improvements project. Based on our observations and evaluation, we submit the following discussion and recommendations.

- At the time of the site visits to plan and perform this investigation, we observed several areas where the wood parquet floor levels were uneven, indicating localized shallow depressions and slightly varying floor levels. It appears that some of these depressions may correspond to the locations of utility trenches under the slab areas where some trench backfill settlement may have occurred.
- Other varying floor levels observed may be caused by differential settlement of adjacent or abutting (but not structurally connected) floor slabs. The existing slabs were likely originally constructed as exterior walkways and possibly landscaping pavements.
- Laboratory tests performed for this study included Expansion Index and Plasticity on samples obtained from under the existing mall floor slab at several locations. The Expansion Index of the tested sample was 26. The Plasticity Index tests indicated a PI ranging from 10 to 12 percent. These test results indicate that the soils tested are considered to have a low expansion potential.
- Other laboratory tests included moisture content and density and a particle size analysis for soil classification. There were no unusual moisture contents or densities that would indicate adverse conditions in the shallow soils under the floor slabs.

- We observed that the quality of the concrete slabs, as cored, was generally medium to poor. The sample at C-1 was observed to be poor in quality, porous and weak in strength.

Based on the above discussion, we anticipate three different approaches towards upgrading the interior floor slab areas as follows:

- Rehabilitation of the existing slabs by selective grinding and resurfacing of the floor slab to provide a level surface. One advantage to this approach is relatively low initial cost; however, a drawback is that occasional future maintenance and re-leveling may be needed over time due to continuing future settlement of utility trench fills or differential settlement of non-continuous slabs. Although the quality of existing concrete was found to be generally medium to poor and no reinforcement was observed, the slab may be marginally adequate for its present function as a walkway and replacement may not be warranted at this time.
- Partial removal and replacement of selected portions of the floor slab, along with selective grinding and resurfacing of other portions as needed. Only those areas identified to have significant settlement or depressions would be replaced. This approach would be more costly initially than the above approach but would reduce the potential for future maintenance and re-leveling costs.
- Complete removal and replacement of the floor slabs. This option would provide the most uniform slab conditions, and lower future maintenance costs compared to the other approaches but would be the most costly initially.

It was not within our scope of services to survey the floor levels, map, or delineate depressed areas. If portions of the existing floor slab are to be retained or rehabilitated, we recommend consideration of having a detailed floor level survey performed to delineate areas that may need specific releveling or rehabilitation measures.

In those areas where slab removal is desired, partially or in full, we recommend the following:

Site Preparation and Grading

All debris and unsuitable soils, and soils disturbed by construction, should be removed. We recommend removal, as much as practicable, of any loose or soft utility trench backfill encountered under the slabs and replacement with compacted fill, tamped sand and gravel, or cement-based low-density fill or lean concrete. Unless approved by Kleinfelder for adequate moisture content and firmness, the exposed subgrade soils should be re-compacted to the requirements presented in Table 1 below.

On-site soil or rock that is free of organic matter and deleterious materials and does not contain particle sizes over 4 inches in diameter will generally be satisfactory for re-use as general compacted fill. Imported fill, if needed, should be of low expansion potential and free of organic matter, and should conform to the following requirements.

Plasticity Index	less than 15
Liquid Limit	less than 40
Maximum Aggregate Size	4 inches

All fill, approved on-site native or imported, should be placed in accordance with the requirements presented in Table 1 below.

TABLE 1 - SUMMARY OF COMPACTION REQUIREMENTS

<u>Area</u>	<u>Compaction Requirements</u>
Concrete Slab-On-Grade Floor Subgrade	Compact the top 8 inches of acceptable native subgrade soil to a minimum of 90 percent relative compaction at a minimum of 2 percent above optimum moisture content.
General Engineered Fill or Backfill (Native and/or Imported)	In lifts, a maximum of 8 inches loose thickness, compact to 90 percent relative compaction at a minimum of 2 percent above the optimum moisture content.

Planned soil subgrade should be finished to present a smooth, unyielding surface. The finished subgrade should be maintained at its moist or above optimum moisture content and be free of shrinkage cracks or disturbance until covered by permanent construction.

In general, site preparation and grading operations should be observed by a representative of Kleinfelder. This will allow us the opportunity to observe unforeseen conditions or detrimental materials that may be exposed by the construction equipment, and to modify our recommendations, as necessary.

Slab-On-Grade Walkways and Floors

We recommend that slabs-on-grade be a minimum of four-inches-thick for interior walkways and six-inches thick for floors or where heavy loads, storage, or traffic is anticipated, unless otherwise recommended by the project Structural Engineer. Also, concrete slabs should be reinforced according to the recommendations set forth by the Structural Engineer. During construction, care should be taken to check that reinforcement is placed at the slab mid-height, particularly when using welded-wire fabric. In addition, slabs should be scored for crack control as recommended by the Structural Engineer and/or project Architect.

Floor Moisture

Concrete slab-on-grade floors, where moisture propagation through the slab is of concern, should be supported on at least four inches of under-slab rock to provide a capillary moisture break. This rock should be graded so that 100 percent passes the one-inch sieve and no more than 5 percent passes the No. 4 sieve. If the subgrade soil dries out and cracks prior to concrete slab

placement, this soil should be re-moisture conditioned to wet of optimum (and to close any shrinkage cracks) before concrete is placed.

Subsurface moisture and moisture vapor naturally migrate upward through soil and, where the soil is covered by a building, this subsurface moisture will collect. To reduce the impact of this subsurface moisture and the potential impact of moisture that could be introduced in the future (such as landscape irrigation, precipitation, or leaking pipes), the current industry standard is to provide a vapor retardant membrane. This membrane typically consists of visqueen or polyvinyl plastic sheeting at least 10-mil in thickness. Although vapor barrier systems are currently the industry standard, these systems may not be completely effective in preventing floor slab moisture problems. These systems typically will not necessarily assure that floor slab moisture transmission rates will meet floor-covering manufacturer standards and that indoor humidity levels will be appropriate to inhibit mold growth. The design and construction of such systems are totally dependent on the use of the proposed building; therefore, the building function should be considered in the final slab-on-grade floor design. For example, building design and construction may have a significant role in perceived moisture problems since sealed buildings or rooms, or inadequate ventilation may produce excessive moisture in a building and affect indoor air quality.

Various factors such as surface grades, adjacent planters, concrete slab quality, and the permeability of the on-site soils can affect slab moisture and control future floor slab and flooring performance. In many cases, floor moisture problems are the result of either improper curing of floor slabs or improper application of flooring adhesives. We suggest contacting a flooring consultant experienced in the area of concrete slab-on-grade floors for specific recommendations regarding proposed flooring applications for the project.

Special precautions should be taken during the placement and curing of concrete slabs. Excessive slump (high water-cement ratio) of the concrete and/or improper curing procedures used during either hot or cold weather conditions could lead to excessive shrinkage, cracking, or curling of the slabs. High water-cement ratio and/or improper curing also greatly increase the water vapor permeability of concrete. Therefore, concrete placement and curing operations should be performed in accordance with the guidelines of the American Concrete Institute (ACI) Manual.

Kleinfelder personnel are not moisture proofing experts for floors. We make no guarantee, nor provide any assurance, that use of the capillary break/vapor retardant system will reduce concrete slab-on-grade floor moisture penetration to any specific rate or level, particularly those required by floor covering manufacturers. The project Contractor and Architect should be responsible for acceptable slab moisture resistance during slab design and construction.

PRELIMINARY CORROSIVITY

One near-surface soil sample from boring K-1 (outside and east of the main mall building) was submitted to Environmental Technical Services (ETS) for preliminary corrosivity analysis. The results of their tests are presented in Appendix B. It should be noted that Kleinfelder does not

practice corrosion engineering. As such, the corrosivity test results are presented for the preliminary use of our client and their design team. Our review of comments contained on the preliminary test results indicates that the soils are considered to be moderately alkaline.

ADDITIONAL SERVICES

The conclusions and recommendations contained in this report are based on six (6) soil test borings, laboratory testing, engineering analysis, and our experience in the project area. Additional information on subsurface conditions at the site will become available during subsequent project construction. As such, Kleinfelder's review of project plans and specifications, along with field observation and testing during project construction, are an integral part of the conclusions and recommendations made in this report. The recommended tests, observations, and consultation by Kleinfelder prior to and during construction include, but may not be limited to:

- Review of plans and specifications.
- Observation of site preparation.
- Observation and testing of engineered fill (or backfill) and finished subgrades.

The above additional services are not included as part of our agreement for this investigation but can be provided by our firm on a time-and-expense basis, when requested.

LIMITATIONS

This geotechnical report has been prepared by Kleinfelder for the exclusive use of The Macerich Company and their consultants for design of the Northgate Mall Improvements – Interior Floor Slab described in this report. In addition, a brochure prepared by ASFE (Association of Firms Practicing in the Geosciences) has been included in Appendix C of this report. We recommend that all individuals reading this report also read this attached brochure.

Our services consist of professional opinions and conclusions developed in accordance with generally accepted geotechnical engineering principles and practices. We provide no other warranty, either expressed or implied. The conclusions and recommendations contained in this report are based on six (6) exploratory borings, including six (6) concrete corings, hand sampling, laboratory testing, and engineering analysis. It is possible that subsurface conditions could vary between or beyond the points explored.


Site conditions and cultural features described in the text of this report are those existing at the time of our investigation and as encountered in our subsurface exploration for this study, and may not necessarily be the same or comparable at other times. The scope of our services did not include an environmental assessment or an investigation of the presence or absence of hazardous or toxic materials in the soil, surface water, groundwater or air on, below, or around this site.

This report may be used only by The Macerich Company for the purposes stated, within a reasonable time from its issuance (24 months). Site conditions (both on- and off-site) or other factors may change over time, and additional work may be required. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any authorized party.

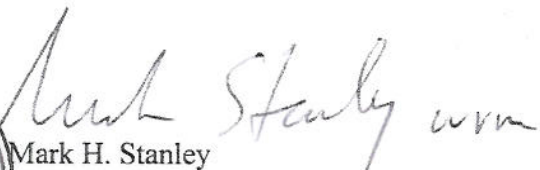
We trust this report provides the information required at this time. Should you have questions or need further services, please call.

Respectfully submitted,

KLEINFELDER WEST, INC.


Don R. Poindexter, GE
Geotechnical Engineer 690




Mark H. Stanley
Geotechnical Engineer 2397

MHS/DRP/jkd

Attachments:

Plate 1 Site Location
Plate 2 Site Plan

Appendix A

Plate A-1 Boring Log Legend
Plates A-2
through A-7 Log of Exploratory Borings C-1 through C-6

Appendix B

Plate B-1 Expansion Index
Plate B-2 Plasticity Chart
Plate B-3 Particle Size Analysis

ETS Preliminary Corrosion Potential Tests

Appendix C Important Information

PLATES

ATTACHED IMAGES: Images: 86393-loc.jpg
 ATTACHED XREFS: Pie-L:2005\05PROJ

CAD FILE: U:\GEO\TECH_PROJECTS\Projects\Active\86393 Northgate Mall\CAD LAYOUT: Layout1



<p>KLEINFELDER</p> <p>2240 Northpoint Parkway Santa Rosa, CA 95407-5009 PH. 707-571-1883 FAX. 707-571-7813 www.kleinfelder.com</p>		<p>SITE LOCATION</p>		<p>DRAWN BY: P. Hubbard</p>
		<p>NORTHGATE MALL IMPROVEMENTS 5800 NORTHGATE MALL SAN RAFAEL, CALIFORNIA</p>		<p>REVISD BY:</p> <p>CHECKED BY: D. Poindexter</p> <p>PLATE</p> <p style="font-size: 2em; text-align: center;">1</p>
<p>DRAWN: 10/07</p>	<p>APPROVED BY: <i>[Signature]</i></p>	<p>PROJECT NO. 86393</p>	<p>FILE NAME 86393-1.dwg</p>	

© by Kleinfelder, 2007

-15'
 INTERPRETED APPROXIMATE
 DEPTH TO BEDROCK

- EXPLANATION**
- INTERIOR CORE HOLE
 - EXTERIOR CORE HOLE
 - ⊕ BORING LOCATION
- BORING FROM PREVIOUS STUDIES
 (CEL 2005)
 (KLEINFELDER 1986)



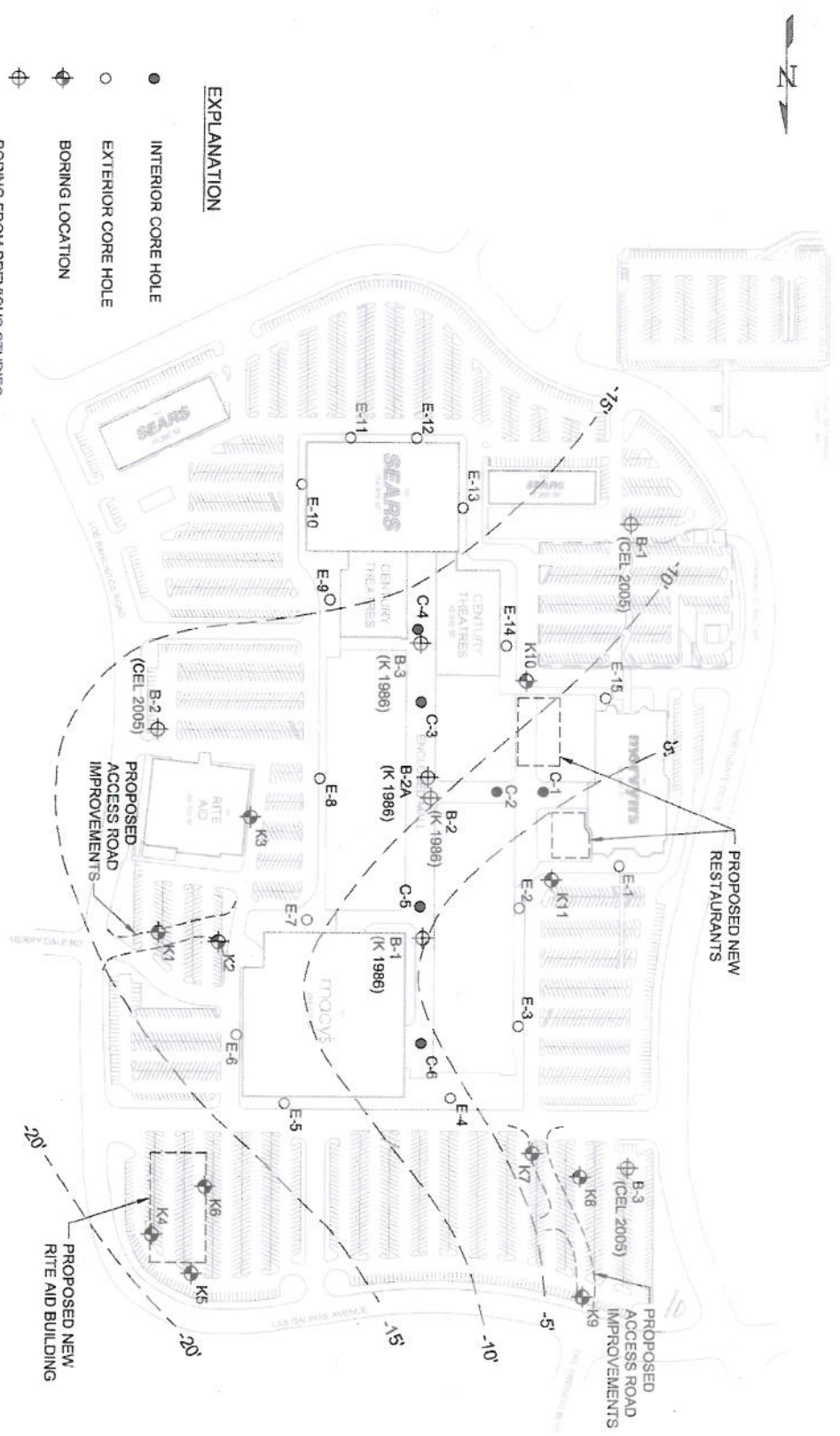
DRAWN BY:	P. Hubbard
REVISD BY:	
CHECKED BY:	D. Ponderer
DATE:	10/07
APPROVED BY:	

SITE PLAN	
PROJECT NO.	86393
FILE NAME:	86393-3.dwg
NORTHGATE MALL IMPROVEMENTS 5800 NORTHGATE MALL SAN RAFAEL, CALIFORNIA	

KLEINFELDER

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PLATE
2












PLOTTED: 09 Oct 2007, 8:45am, phubbard

APPENDIX A

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS					DESCRIPTIVE NAMES
COARSE GRAINED SOILS More than Half > #200 sieve	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES
			GP		POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 15% FINES	GM		SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES
			GC		CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL GRADED SANDS, GRAVELLY SANDS
			SP		POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 15% FINES	SM		SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
			SC		CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
FINE GRAINED SOILS More than Half < #200 sieve	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL		ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH		ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			Pt		PEAT AND OTHER HIGHLY ORGANIC SOILS

FIELD SAMPLING

-  CALIFORNIA SAMPLE 2.5" I.D.
-  MODIFIED CALIFORNIA SAMPLE 2" I.D.
-  DISTURBED, BAG OR BULK SAMPLE
-  STANDARD PENETRATION TEST
-  SHELBY TUBE SAMPLE
-  3-1/2" I.D. CONTINUOUS CORE SAMPLE
-  UNRETAINED PORTION OF SAMPLE
-  WATER LEVEL OBSERVED IN BORING (at given post-drilling time)
-  WATER LEVEL OBSERVED IN BORING (at time of drilling)

LABORATORY TESTS

- LL LIQUID LIMIT
- PI PLASTICITY INDEX
- SA SIEVE ANALYSIS
- #200 PERCENT PASSING #200 SIEVE
- RV RESISTANCE VALUE
- EI EXPANSION INDEX
- DS DIRECT SHEAR
- Tx/UU TRIAXIAL SHEAR-UNCONSOLIDATED UNDRAINED
- UC UNCONFINED COMPRESSION
- SG SPECIFIC GRAVITY
- PP POCKET PENETROMETER SHEAR STRENGTH (tsf)

NOTES: Blow counts represent the number of blows of a 140-pound hammer falling 30-inches required to drive a sampler the last 12-inches of an 18-inch penetration. Field blow counts (not-converted).

The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil strata and groundwater observed at the boring location on the date of drilling only.



BORING LOG LEGEND

**Northgate Mall Improvements
Interior Floor Slab
San Rafael, California**

PLATE

A-1

PROJECT NUMBER 86393

DATE Oct 2007

LABORATORY				FIELD		Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
Dry Density (pcf)	Moisture Content (%)	Shear Strength (ksf)	Other Tests	Blows/foot*	Sample				
						1		MORTAR - 0.25 inches thick BRICK - 4 inches thick red brick in mortar MORTAR - 1 inch thick CONCRETE - 8.5 inches thick, porous, no steel observed	
112	17.0		LL = 27 PI = 10				GP	SANDY GRAVEL - gray brown, moist, medium dense (FILL)	
							CL	SANDY CLAY WITH GRAVEL - medium brown, moist, medium stiff	
			EI = 26			2	CL	SANDY CLAY - medium brown, moist, medium stiff to stiff	
115	15.8							BOTTOM OF BORING C-1 @ 2.1 FEET No Free Water Encountered	

* Field blow counts (not-converted).
**

SURFACE ELEVATION: **
TOTAL DEPTH: **2.1 feet**
GROUND WATER DEPTH: ∇ feet at time of drilling
 ∇ feet

LOGGED BY: **S. Carroll**
EQUIPMENT: **4" core barrel**
DIAMETER of BORING: **4**
DATE DRILLED: **8-29-07**



LOG OF EXPLORATION BORING C-1
Northgate Mall Improvements
Interior Floor Slab
San Rafael, California

PLATE
A-2
1 of 1

LABORATORY				FIELD		Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
Dry Density (pcf)	Moisture Content (%)	Shear Strength (ksf)	Other Tests	Blows/foot *	Sample				
								CONCRETE - 5.5 to 6 inches thick, no steel observed, visqueen at base of concrete	
111	13.5						SP	SAND - 3 inches thick with visqueen at base of sand, gray brown, moist, loose, fine grained (FILL)	
123	12.2					1		SANDY CLAY - medium brown, moist, soft to medium stiff (FILL)	
110	12.0		LL = 25 PI = 10				CL		
						2		BOTTOM OF BORING C-2 @ 1.8 FEET No Free Water Encountered	
						3			

* Field blow counts (not-converted).
**

SURFACE ELEVATION: **
TOTAL DEPTH: **1.8 feet**
GROUND WATER DEPTH: ∇ feet at time of drilling
 ∇ feet

LOGGED BY: **S. Carroll**
EQUIPMENT: **4" core barrel**
DIAMETER of BORING: **4**
DATE DRILLED: **8-29-07**



LOG OF EXPLORATION BORING C-2
Northgate Mall Improvements Interior Floor Slab San Rafael, California

PLATE

A-3

1 of 1

PROJECT NUMBER **86393** DATE **Oct 2007**

LABORATORY				FIELD		Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
Dry Density (pcf)	Moisture Content (%)	Shear Strength (ksf)	Other Tests	Blows/foot *	Sample				
123	12.1		LL = 27 PI = 12					CONCRETE - no steel observed, visqueen at base of concrete	
121	13.6					1	CL	SANDY CLAY WITH GRAVEL - mottled olive brown and yellow brown, moist to wet, medium stiff to stiff, fine to medium grained sand	
						2		BOTTOM OF BORING C-3 @ 1.4 FEET No Free Water Encountered	
						3			

* Field blow counts (not-converted).
**

SURFACE ELEVATION: **Not Available ****
TOTAL DEPTH: **1.4 feet**
GROUND WATER DEPTH: ∇ feet at time of drilling
 ∇ feet

LOGGED BY: **S. Carroll**
EQUIPMENT: **4" core barrel**
DIAMETER of BORING: **4**
DATE DRILLED: **8-29-07**



LOG OF EXPLORATION BORING C-3
Northgate Mall Improvements
Interior Floor Slab
San Rafael, California

PLATE
A-4
1 of 1

LABORATORY				FIELD		Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
Dry Density (pcf)	Moisture Content (%)	Shear Strength (ksf)	Other Tests	Blows/foot *	Sample				
						0		CEMENT GROUT - 0.25 to 0.5 inches thick CONCRETE - 4 inches thick no steel observed, vertical cold joint 2.8 inches from one side	
						1	GP	SANDY GRAVEL - gray, moist, loose, gravel to 1" diameter (FILL)	
			- 200 = 27%			1	SC	CLAYEY SAND WITH GRAVEL - medium brown to yellow brown, moist, medium stiff to stiff	
						1	CL	SANDY CLAY - brown, mottled reddish brown and yellow brown, moist to wet, medium stiff to stiff	
						2		BOTTOM OF BORING C-4 @ 1.4 FEET No Free Water Encountered	
						3			

* Field blow counts (not-converted).
 **

SURFACE ELEVATION: **Not Available ****
 TOTAL DEPTH: **1.4 feet**
 GROUND WATER DEPTH: ∇ feet at time of drilling
 ∇ feet

LOGGED BY: **S. Carroll**
 EQUIPMENT: **4" core barrel**
 DIAMETER of BORING: **4**
 DATE DRILLED: **8-29-07**



LOG OF EXPLORATION BORING C-4
 Northgate Mall Improvements
 Interior Floor Slab
 San Rafael, California

PLATE
A-5
 1 of 1

LABORATORY				FIELD		Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
Dry Density (pcf)	Moisture Content (%)	Shear Strength (ksf)	Other Tests	Blows/foot *	Sample				
								CEMENT GROUT - 0.5 inches thick CONCRETE - 3 inches thick, no steel observed	
103	13.5						GM/GF	SANDY GRAVEL - medium gray brown, gray, fine to coarse angular gravel (FILL)	
						1	CL	SANDY CLAY - dark brown, mottled with yellow brown, moist to wet, medium stiff to stiff becomes gray with reddish brown	
						1	CL	SANDY CLAY - dark gray brown, moist, medium stiff to stiff	
						2		BOTTOM OF BORING C-5 @ 1.5 FEET No Free Water Encountered	

* Field blow counts (not-converted).
 **

SURFACE ELEVATION: **Not Available** **
 TOTAL DEPTH: **1.5 feet**
 GROUND WATER DEPTH: ∇ feet at time of drilling
 ∇ feet

LOGGED BY: **S. Carroll**
 EQUIPMENT: **4" core barrel**
 DIAMETER of BORING: **4**
 DATE DRILLED: **8-29-07**



LOG OF EXPLORATION BORING C-5
 Northgate Mall Improvements
 Interior Floor Slab
 San Rafael, California

PLATE
A-6
 1 of 1

LABORATORY				FIELD		Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
Dry Density (pcf)	Moisture Content (%)	Shear Strength (ksf)	Other Tests	Blows/foot *	Sample				
						0 - 2		CONCRETE - 2 inches thick no steel observed	
						2 - 3	GM	SANDY GRAVEL - gray, moist, loose (FILL)	
						3 - 1.4	SC	CLAYEY SAND WITH GRAVEL - brown to yellow brown, moist, medium dense, fine to medium grained sand, fine to medium angular gravel	
						1.4 - 3		BOTTOM OF BORING C-6 @ 1.4 FEET No Free Water Encountered	

* Field blow counts (not-converted).
**

SURFACE ELEVATION: **Not Available ****
TOTAL DEPTH: **1.4 feet**
GROUND WATER DEPTH: ∇ feet at time of drilling
 ∇ feet

LOGGED BY: **S. Carroll**
EQUIPMENT: **4" core barrel**
DIAMETER of BORING: **4**
DATE DRILLED: **8-29-07**



**LOG OF EXPLORATION
BORING C-6**
Northgate Mall Improvements
Interior Floor Slab
San Rafael, California

PLATE
A-7
1 of 1

APPENDIX B

**KLEINFELDER
LABORATORY TESTING SERVICES**

Project Name: Northgate Mall
Project Number: 86393
Report Date: 9/14/07
Sample ID: C1 @ 2.0'
Material Description: Sandy Clay

Expansion Index Test (UBC 18-2)


Expansion Index:	26
Dry Density (PCF):	112.9
Initial Moisture Content (%)	8.1
Final Moisture Content (%)	22.7


Classification of expansive soil

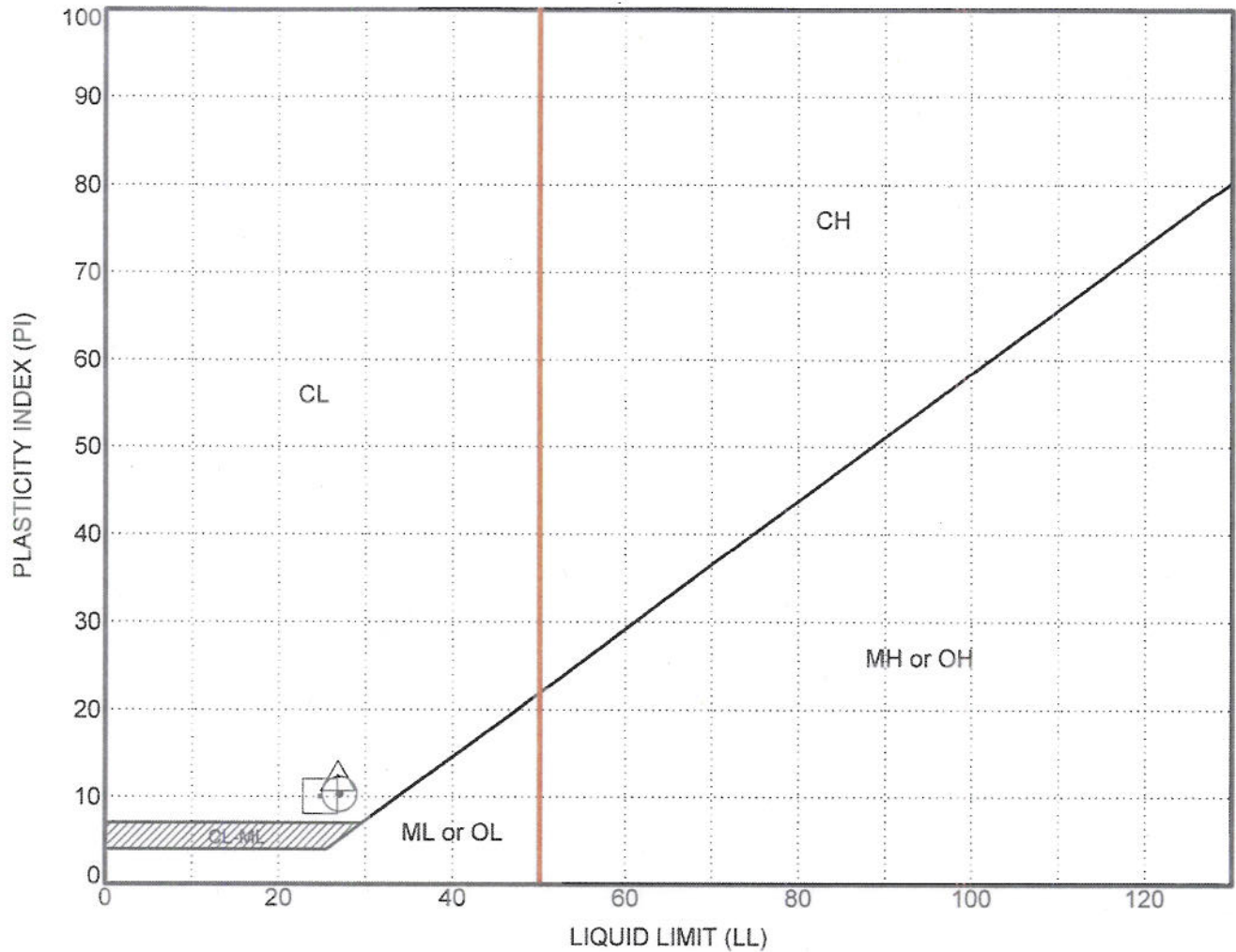
Expansion Index

Expansion Potential

0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
Above 130	Very High

Reviewed By 

 KLEINFELDER	EXPANSION INDEX Northgate Mall Interior floor slab San Rafael, California	PLATE B-1
	PROJECT NUMBER 86393 DATE October 2007	



SAMPLE SOURCE	CLASSIFICATION	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
⊙ C-1 @ 1.6'	Sandy Clay (CL)	27	17	10	
□ C-2 @ 1.3'	Sandy Clay (CL)	25	15	10	
△ C-3 @ 0.4'	Sandy Clay (CL)	27	14	12	



PLASTICITY CHART

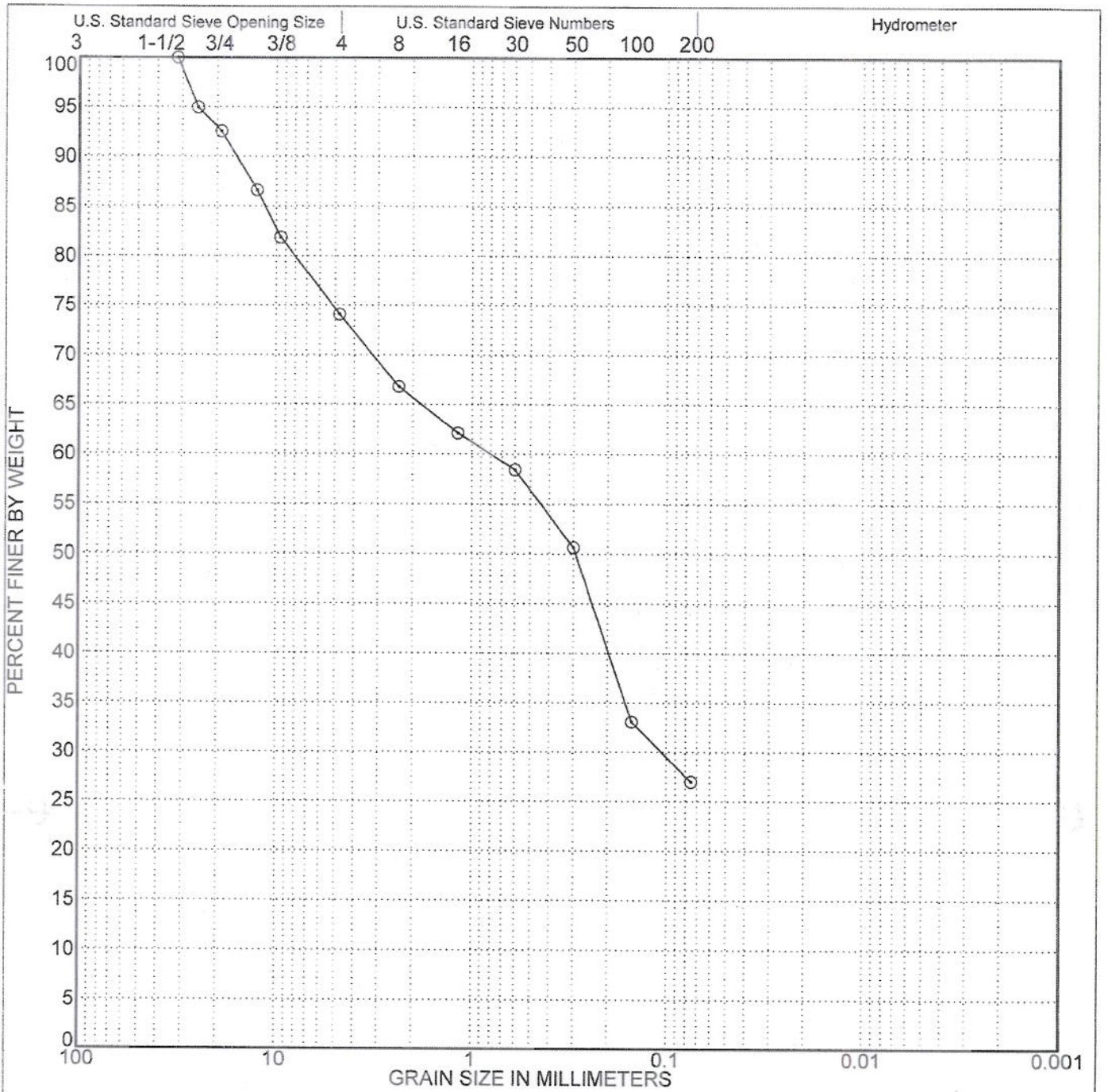
Northgate Mall Improvements
Interior Floor Slab
San Rafael, California

PLATE

B-2

PROJECT NUMBER 86393

DATE Oct 2007



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SYMBOL	SAMPLE SOURCE	CLASSIFICATION
⊙	C-4 @ 0.8'	CLAYEY SAND with GRAVEL (SC)

	PARTICLE SIZE ANALYSIS		PLATE
	Northgate Mall Improvements Interior Floor Slab San Rafael, California		B-3
PROJECT NUMBER 86393	DATE Oct 2007		



ETS

Environmental Technical Services

-Soil, Water & Air Testing & Monitoring
-Analytical Labs
-Technical Support

975 Transport Way, Suite 2
Petaluma, CA 94954
(707) 778-9605/FAX 778-9612

*Serving people and the environment
so that both benefit.*

RECEIVED
SEP 13 2007
KLEINFELDER

COMPANY: Kleinfelder Associates, 2240 Northpoint Parkway, Santa Rosa, CA 95407	ANALYST(S) D. Salinas S. Santos	SUPERVISOR D. Jacobson
ATTN: Mark H. Stanley	DATE RECEIVED 9/6/2007	DATE of COMPLETION 9/13/2007
JOB SITE: Northgate Mall, Santa rosa, California.		LAB DIRECTOR G.S. Conrad PhD
FILE #: 86393		

LAB SAMPLE NUMBER	SAMPLE ID	DESCRIPTION of SOIL and/or SEDIMENT	SOIL pH -log[H+]	NOMINAL RESISTIVITY ohm-cm	ELECTRICAL CONDUCTIVITY µmhos/cm	SULFATE SO4 ppm	CHLORIDE Cl ppm
02766-1	NM1/SR	KL1-1	8.15	2,630	[380]	42	88
Method	Detection	Limits →	---	1	0.1	1	1
LAB SAMPLE NUMBER	SAMPLE ID	DESCRIPTION of SOIL and/or SEDIMENT	SALINITY ECe mmhos/cm	SOLUBLE SULFIDES (S=) ppm	SOLUBLE CYANIDES (CN=) ppm	REDOX mV	PERCENT MOISTURE %
02766-1	NM1/SR	KL1-1				+298.6	
Method	Detection	Limits →	---	0.1	0.1	1	0.1

COMMENTS

Resistivity is over 2,000 ohm-cm but is mediocre, and soil reaction (i.e., pH) is moderately alkaline which does help; both sulfate and chloride are low; and redox is mild. The CalTrans times to perforation for this soil are as follows: for 18 ga steel the time to perforation is 37 yrs, and for 12 ga it goes up to over 81 yrs. The average pitting rate determination for steel in this soil is 0.07 mm/yr, thus pitting to a depth of 2 mm would be ≈28.5 yrs, and to a 4 mm depth it would be ≈57 yrs. Chlorides are so low that there should be no significant corrosion impact on concrete steel reinforcement; and sulfates are also low thus no measureable adverse impact should occur to concrete, mortar, grout or cement. The redox value is mild enough that no significant added adverse impact on construction materials should be expected. As concerns buried metals, this soil would not benefit at all from alkaline treatment since it pH is already alkaline enough. To increase metals longevity any more in this soil would require further upgrading (i.e., heavier gauge or more resistant steel); and/or other actions could be taken (e.g. special engineering fill, special coatings, cathodic protection, plastic pipe, etc.). Last, standard concrete mixes and related materials should be fine in this soil based on these results.

\\NOTES: Methods are from following sources: extractions by Cal Trans protocols as per Cal Test 417 (SO4), 422 (Cl), and 532/643 (pH & resistivity); &/or by ASTM Vol. 4.08 & ASTM Vol. 11.01 (=EPA Methods of Chemical Analysis, or Standard Methods); pH - ASTM G 51; Spec. Cond. - ASTM D 1125; resistivity - ASTM G 57; redox - Pt probe/ISE; sulfate - extraction Title 22, detection ASTM D 516 (=EPA 375.4); chloride - extraction Title 22, detection ASTM D 512 (=EPA 325.3); sulfides - extraction by Title 22, and detection EPA 376.2 (=SMEWW 4500-S D); cyanides - extraction by Title 22, and detection by ASTM D 4374 (=EPA 335.2).

APPENDIX C

Important Information About Your Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

The following information is provided to help you manage your risks.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you — should apply the report for any purpose or project except the one originally contemplated.*

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,

- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final*, because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject to Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should never be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that

have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations" many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; *none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention.* Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.

Rely on Your ASFE-Member Geotechnical Engineer for Additional Assistance

Membership in ASFE/The Best People on Earth exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with you ASFE-member geotechnical engineer for more information.



3811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
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Steve Buffenbarger

From: Thomas Ahrens
Sent: Friday, July 31, 2009 1:46 PM
To: Steve Buffenbarger
Subject: FW: Grease interceptors at Northgate Mall.

Steve, FYI. Looks like 2,000 gallon for food court and Building 40. 1500 Gallon for BJ's

-----Original Message-----

From: Smail, David [mailto:DSmail@co.marin.ca.us]
Sent: Friday, July 31, 2009 12:40 PM
To: bret@incommmechanical.com
Cc: Thomas Ahrens; VanLiew, Pricilla
Subject: FW: Grease interceptors at Northgate Mall.

Bret, contact either Janice Mandler or Mark Williams at the sanitary district re. hook up to the public main for the interceptors.

Mandler's number is 472 1734 x 13

William's number is 472 1734 x 11.

Bob Adamson is correct in that Environmental Health is not looking at outside interceptors.

Thanks.

Dave Smail, Supervising R.E.H.S./Marin County

-----Original Message-----

From: Bob Adamson [mailto:badamson@centralmarinsa.org]
Sent: Thursday, July 30, 2009 2:15 PM
To: Smail, David
Cc: Robert Cole
Subject: Grease interceptors at Northgate Mall.

David,

For the past year and a half I have been having discussions and reviewing plans to generate letters or e-mails with the "grease removal device requirements" for new food service establishments (FSEs) at the remodeled Northgate Mall. The letters for each restaurant were cc'd to Jennifer Snow. However, I realize that you and Jennifer may have been "out of the loop" regarding the discussions on the outside interceptors serving several FSEs. Based on a past discussion we had regarding the interceptor installation at Embassy Suites, I thought interceptors outside the kitchen were not subject to Restaurant Plan Review.

Below is a summary of the outside interceptors (what the UPC now calls "gravity interceptors") that I have approved as complying with Las Gallinas Valley Sanitary District's FOG Ordinance. Sizing is based on Table 10-3 in the 2007 California Plumbing Code and estimated total kitchen fixtures.

"Building 40" interceptor will serve 3 medium-sized FSEs and will be 2,000 gallons.

The "Food Court" interceptor will serve 10 small FSEs and will be 2,000 gallons.

In addition, BJ's Restaurant will have its own 1,500 gallon interceptor.

The Mall management wants the FSEs served by a common interceptor to have small grease traps on their 3-comp sink, scrap sink, and wok stoves, in order to protect the drain lines going to the interceptor. I

have been including this requirement in the grease removal device letters I have been generating and forwarding to Jennifer.

I am not sure which of the above interceptors they are submitting to you. Feel free to contact me if you have questions or need more info.

Bob Adamson
Environmental Services Administrator
Central Marin Sanitation Agency
(415) 459-1455 ext. 140
Tues - Fri 6:00 AM to 4:30

Email Disclaimer: <http://www.co.marin.ca.us/nav/misc/EmailDisclaimer.cfm>



DIBBLE ENGINEERS

CITY OF SAN RAFAEL
BUILDING & FIRE PREVENTION DIVISION
REVIEWED FOR CODE COMPLIANCE

This set of plans and specifications shall be kept on the job site at all times and readily available to City Inspectors upon demand.

Approval of these plans and specifications shall not be held to permit, or to be an approval to violate any provisions of any City or State law, or Nationally recognized Fire Protection Standard.

Signature Cozel Date 9-23-09

Permit # B0908-043

PANERA T.I. - SAN RAFAEL
STRUCTURAL CALCULATIONS
Transformer Support Platform

SAN RAFAEL, CA

PREPARED FOR:
Freiheit & Ho Architects
10230 NE Points Drive, Suite 300
Kirkland, WA 98033

RECEIVED
SEP 03 2009
BUILDING



Handwritten red text: FIC

Structural Calculations
Project #: 09-400
Prepared by
Dibble Engineers, Inc.
August 27, 2009



DIBBLE ENGINEERS, INC.

Project No.
09-400.301

Sheet No.
T1

Project PANERA - SAN RAFAEL

Date 8-26-09

Subject TRANSFORMER PLATFORM - GRAVITY

By JR

Weight = 835 lb

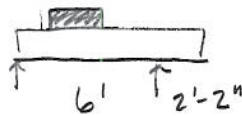
Size = 22" W x 24" D x 44" High

The distributed load = $\frac{835 \text{ lb}}{2' \times 1'-10"} = 228 \text{ psf}$

Live Load in mech'l area = 125 psf

Dead Load = 10 psf

TYPICAL JOIST



SEE ATTACHED ENERCALC FOR FORCES:

$$M_{\max} = 0.84 \text{ k ft (12)} = 10.08 \text{ in-k}$$

$$V_{\max \text{ interior}} = 0.84 \text{ k}$$

$$V_{\max \text{ ext.}} = 0.52 \text{ k}$$

800S162-43
@ 12" o.c.

$$M_a = 39.32 \text{ in-k} > 10.08 \text{ in-k}$$

$$V_a = 1593 \text{ lb} > 840 \text{ lb OK}$$

Web Crippling = 529 lb ① 6" bearing NG
= 964 lb ② 6" bearing OK

Add web stiffeners.

Studs

Height = 11'-4" (Use 12' off table)

Partition lateral load = 5 psf

Studs @ 12" o.c. to match joist

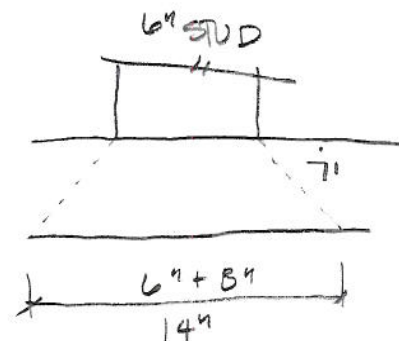
$$P_{\text{allow}} = 2.49 \text{ k OK } \boxed{600S162-33 @ 12" o.c.}$$

$$P_{\text{req'd}} = 840 \text{ lb OK}$$

FOUNDATION

Line Load = 840 plf

$$q = \frac{840 \text{ plf}}{14"} = 720 \text{ psf} < 1500 \text{ psf } \boxed{4" \text{ SOD}} \text{ OK}$$





Dibble Engineers, Inc
 1029 Market Street
 Kirkland, WA 98033

Title :
 Dsgnr:
 Description :

Job #
 Date: 12:15PM, 26 AUG 09

T2

Scope :

Rev: 560003
 User: KW-0606102, Ver 5.8.0, 1-Dec-2003
 (c)1983-2003 ENERCALC Engineering Software

Single Span Beam Analysis

Page 1
 transformer.ecw:Calculations

Description Transformer Joist - Load full span

General Information

Center Span	6.00 ft	Moment of Inertia	8.025 in ⁴
Left Cantilever	ft	Elastic Modulus	29,000 ksi
Right Cantilever	2.17 ft	Beam End Fixity	Pin-Pin

Uniform Loads

On Center Span...	On Left Cantilever...	On Right Cantilever...
# 1 0.135 k/ft	# 1 k/ft	# 1 0.135 k/ft

Trapezoidal Loads

Magnitude @ Left	0.103 k/ft	k/ft	k/ft	k/ft
Magnitude @ Right	0.103 k/ft	k/ft	k/ft	k/ft
Dist. To Left Side	1.500 ft	ft	ft	ft
Dist. To Right Side	3.500 ft	ft	ft	ft

Query Values

Center Location	0.000 ft	Left Cant	0.000 ft	Right Cant	6.000 ft
Moment	0.00 k-ft		0.00 k-ft		-0.32 k-ft
Shear	0.47 k		0.00 k		-0.54 k
Deflection	0.00000 in		0.00000 in		0.00000 in

Summary

Moments...		Shears...		Reactions...	
Max + @ Center	0.71 k-ft at 2.64 ft	@ Left	0.47 k	@ Left	0.47 k
Max - @ Center	-0.32 k-ft at 6.00 ft	@ Right	0.54 k	@ Right	0.84 k
@ Left Cant	0.00 k-ft	Maximum	0.54 k		
@ Right Cant	-0.32 k-ft	Deflections...			
Maximum =	0.71 k-ft	@ Center	-0.018 in at 2.85 ft		
		@ Left Cant.	0.000 in at 0.00 ft		
		@ Right Cant	0.013 in at 8.17 ft		



Dibble Engineers, Inc
1029 Market Street
Kirkland, WA 98033

Title :
Dsgnr:
Description :

Job #
Date: 12:15PM, 26 AUG 09

Scope :

Rev: 580003
User: KW-0606102, Ver 5.8.0, 1-Dec-2003
(c)1983-2003 ENERCALC Engineering Software

Single Span Beam Analysis

Page 1
transformer.ecw:Calculations

Description Transformer Joist - Load interior span only

General Information

Center Span	6.00 ft	Moment of Inertia	8.025 in4
Left Cantilever	ft	Elastic Modulus	29,000 ksi
Right Cantilever	2.17 ft	Beam End Fixity	Pin-Pin

Uniform Loads

On Center Span...	On Left Cantilever...	On Right Cantilever...
# 1 0.135 k/ft	# 1 k/ft	# 1 0.010 k/ft

Trapezoidal Loads

Magnitude @ Left	0.103 k/ft	k/ft	k/ft	k/ft
Magnitude @ Right	0.103 k/ft	k/ft	k/ft	k/ft
Dist. To Left Side	1.500 ft	ft	ft	ft
Dist. To Right Side	3.500 ft	ft	ft	ft

Query Values

Center Location	0.000 ft	Left Cant	0.000 ft	Right Cant	6.000 ft
Moment	0.00 k-ft		0.00 k-ft		-0.02 k-ft
Shear	0.52 k		0.00 k		-0.49 k
Deflection	0.00000 in		0.00000 in		0.00000 in

Summary

Moments...		Shears...		Reactions...	
Max + @ Center	0.84 k-ft at 2.84 ft	@ Left	0.52 k	@ Left	0.52 k
Max - @ Center	-0.02 k-ft at 6.00 ft	@ Right	0.49 k	@ Right	0.52 k
@ Left Cant	0.00 k-ft	Maximum	0.52 k		
@ Right Cant	-0.02 k-ft	Deflections...			
Maximum =	0.84 k-ft	@ Center	-0.023 in at 2.97 ft		
		@ Left Cant.	0.000 in at 0.00 ft		
		@ Right Cant	0.025 in at 8.17 ft		



Dibble Engineers, Inc
 1029 Market Street
 Kirkland, WA 98033

Title :
 Dsgnr:
 Description :

Job # T4
 Date: 12:15PM, 26 AUG 09

Scope :

Rev: 580003
 User: KW-0606102, Ver 5.8.0, 1-Dec-2003
 (c)1983-2003 ENERCALC Engineering Software

Single Span Beam Analysis

Page 1
 transformer.ecw:Calculations

Description Transformer Joist - cantilever load only

General Information

Center Span	6.00 ft	Moment of Inertia	8.025 in ⁴
Left Cantilever	ft	Elastic Modulus	29,000 ksi
Right Cantilever	2.17 ft	Beam End Fixity	Pin-Pin

Uniform Loads

On Center Span...	On Left Cantilever...	On Right Cantilever...
# 1 0.010 k/ft	# 1 k/ft	# 1 0.135 k/ft

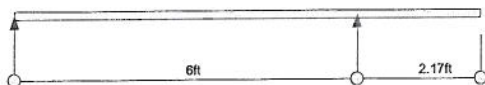
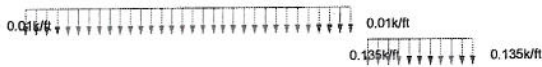
Query Values

Center Location	0.000 ft	Left Cant	0.000 ft	Right Cant	6.000 ft
Moment	0.00 k-ft		0.00 k-ft		-0.32 k-ft
Shear	-0.02 k		0.00 k		-0.08 k
Deflection	0.00000 in		0.00000 in		0.00000 in

Summary

Moments...				Shears...				Reactions...			
Max + @ Center	0.00 k-ft	at	0.00 ft	@ Left	0.02 k	@ Left	-0.02 k				
Max - @ Center	-0.32 k-ft	at	6.00 ft	@ Right	0.29 k	@ Right	0.38 k				
@ Left Cant	0.00 k-ft			Maximum	0.29 k						
@ Right Cant	-0.32 k-ft										
Maximum =	0.32 k-ft										
				Deflections...							
				@ Center	0.004 in	at	3.61 ft				
				@ Left Cant.	0.000 in	at	0.00 ft				
				@ Right Cant	-0.012 in	at	8.17 ft				

Sketch & Diagram



Section Properties

Structural (S) Stud Section Properties

Section	Design Thickness (in)	Gross						Effective 33ksi					Effective 50ksi					Torsional					
		Area (in ²)	Weight (lb/ft)	I _{xx} (in ⁴)	S _{xx} (in ³)	R _x (in)	I _{yy} (in ⁴)	R _y (in)	I _{xx} (in ⁴)	S _{xx} (in ³)	M _a (in-k)	V _a (lb)	Y _{cg} (in)	I _{xx} (in ⁴)	S _{xx} (in ³)	M _a (in-k)	V _a (lb)	Y _{cg} (in)	J ¹⁰⁰⁰ (in ⁶)	C _w (in ⁶)	X _o (in)	R _o (in)	β
800S137-33 ¹	0.0346	0.388	1.32	3.198	0.799	2.873	0.073	0.435	3.198	0.663	13.10	455	4.335						0.155	0.948	-0.709	2.991	0.944
800S137-43	0.0451	0.503	1.71	4.134	1.033	2.866	0.093	0.430	4.134	1.033	20.42	1008	4.000					0.341	1.202	-0.700	2.981	0.945	
800S137-54	0.0566	0.627	2.13	5.110	1.277	2.855	0.112	0.423	5.110	1.277	28.89	2006	4.000	5.110	1.249	37.38	2006	4.032	0.670	1.460	-0.691	2.967	0.946
800S137-68	0.0713	0.782	2.66	6.303	1.576	2.839	0.134	0.414	6.303	1.576	36.74	4048	4.000	6.303	1.573	54.40	4048	4.003	1.325	1.762	-0.680	2.948	0.947
800S137-97	0.1017	1.093	3.72	8.597	2.149	2.805	0.169	0.394	8.597	2.149	53.09	9037	4.000	8.597	2.149	78.22	11124	4.000	3.767	2.295	-0.658	2.908	0.949
800S162-33 ¹	0.0346	0.413	1.41	3.582	0.896	2.943	0.125	0.550	3.582	0.757	14.96	455	4.306					0.165	1.615	-0.951	3.142	0.908	
800S162-43	0.0451	0.537	1.83	4.633	1.158	2.937	0.160	0.546	4.633	1.158	22.89	1008	4.000					0.364	2.056	-0.941	3.132	0.910	
800S162-54	0.0566	0.670	2.28	5.736	1.434	2.927	0.194	0.539	5.736	1.434	31.83	2006	4.000	5.736	1.397	41.84	2006	4.039	0.715	2.509	-0.932	3.119	0.911
800S162-68	0.0713	0.836	2.84	7.089	1.772	2.913	0.235	0.530	7.089	1.772	40.41	4048	4.000	7.089	1.757	59.57	4048	4.013	1.416	3.047	-0.921	3.101	0.912
800S162-97	0.1017	1.169	3.98	9.713	2.428	2.883	0.305	0.510	9.713	2.428	58.27	9037	4.000	9.713	2.428	86.14	11124	4.000	4.030	4.023	-0.899	3.062	0.914
800S200-33 ¹	0.0346	0.448	1.52	4.096	1.024	3.023	0.227	0.712	4.096	0.812	16.04	455	4.410					0.179	2.945	-1.306	3.369	0.850	
800S200-43	0.0451	0.582	1.98	5.302	1.325	3.018	0.292	0.708	5.302	1.293	25.54	1008	4.038					0.395	3.763	-1.295	3.359	0.851	
800S200-54	0.0566	0.726	2.47	6.573	1.643	3.009	0.357	0.701	6.573	1.643	35.75	2006	4.000	6.573	1.475	44.15	2006	4.168	0.775	4.612	-1.286	3.346	0.852
800S200-68	0.0713	0.907	3.09	8.140	2.035	2.996	0.435	0.692	8.140	2.035	45.29	4048	4.000	8.140	1.964	65.21	4048	4.055	1.537	5.631	-1.275	3.329	0.853
800S200-97	0.1017	1.271	4.32	11.203	2.801	2.969	0.576	0.673	11.203	2.801	65.12	9037	4.000	11.203	2.801	96.63	11124	4.000	4.381	7.524	-1.253	3.292	0.855
800S250-43	0.0451	0.627	2.13	6.015	1.504	3.097	0.500	0.893	6.015	1.313	25.95	1008	4.219					0.425	6.320	-1.695	3.641	0.783	
800S250-54	0.0566	0.783	2.66	7.465	1.866	3.088	0.614	0.886	7.465	1.712	33.82	2006	4.134	7.378	1.525	45.66	2006	4.323	0.836	7.769	-1.686	3.628	0.784
800S250-68	0.0713	0.978	3.33	9.261	2.315	3.077	0.752	0.877	9.261	2.240	44.26	4048	4.053	9.261	2.003	59.96	4048	4.219	1.658	9.526	-1.674	3.611	0.785
800S250-97	0.1017	1.372	4.67	12.789	3.197	3.053	1.009	0.857	12.789	3.190	72.06	9037	4.004	12.789	3.053	102.70	11124	4.073	4.731	12.838	-1.652	3.575	0.787
1000S162-43 ¹	0.0451	0.627	2.13	8.025	1.605	3.577	0.168	0.518	8.025	1.414	27.94	802	5.292					0.425	3.404	-0.836	3.709	0.949	
1000S162-54	0.0566	0.783	2.66	9.950	1.990	3.565	0.204	0.511	9.950	1.990	39.32	1593	5.000	9.950	1.712	51.26	1593	5.332	0.836	4.160	-0.827	3.696	0.950
1000S162-68	0.0713	0.978	3.33	12.325	2.465	3.550	0.246	0.502	12.325	2.465	56.20	3209	5.000	12.325	2.465	73.80	3209	5.000	1.658	5.060	-0.817	3.677	0.951
1000S162-97	0.1017	1.372	4.67	16.967	3.393	3.516	0.320	0.483	16.967	3.393	81.43	9037	5.000	16.967	3.393	120.37	9461	5.000	4.731	6.708	-0.795	3.637	0.952
1000S200-43 ¹	0.0451	0.672	2.29	9.085	1.817	3.676	0.309	0.677	9.085	1.580	31.23	802	5.319					0.456	6.189	-1.162	3.914	0.912	
1000S200-54	0.0566	0.839	2.86	11.278	2.256	3.666	0.378	0.671	11.278	2.256	44.57	1593	5.000	11.278	1.805	54.04	1593	5.478	0.896	7.595	-1.153	3.901	0.913
1000S200-68	0.0713	1.050	3.57	13.994	2.799	3.652	0.460	0.662	13.994	2.799	62.28	3209	5.000	13.994	2.744	82.15	3209	5.037	1.779	9.291	-1.142	3.883	0.913
1000S200-97	0.1017	1.474	5.02	19.336	3.867	3.622	0.609	0.643	19.336	3.867	89.92	9037	5.000	19.336	3.867	133.42	9461	5.000	5.082	12.460	-1.120	3.845	0.915
1000S250-43 ¹	0.0451	0.717	2.44	10.203	2.041	3.771	0.531	0.860	10.203	1.617	31.95	802	5.508					0.486	10.404	-1.535	4.161	0.864	
1000S250-54	0.0566	0.896	3.05	12.677	2.535	3.762	0.653	0.854	12.677	2.277	44.99	1593	5.213	12.660	1.879	56.26	1593	5.635	0.957	12.805	-1.525	4.148	0.865
1000S250-68	0.0713	1.121	3.81	15.751	3.150	3.749	0.799	0.844	15.751	3.054	60.34	3209	5.060	15.751	2.670	79.94	3209	5.317	1.899	15.726	-1.514	4.130	0.866
1000S250-97	0.1017	1.576	5.36	21.827	4.365	3.722	1.072	0.825	21.827	4.356	98.40	9037	5.004	21.827	4.181	140.63	9461	5.082	5.433	21.268	-1.491	4.093	0.867
1200S162-54 ¹	0.0566	0.896	3.05	15.730	2.622	4.190	0.212	0.486	15.730	2.334	46.11	1321	6.311	15.730	2.024	60.60	1321	6.695	0.957	6.293	-0.744	4.283	0.970
1200S162-68	0.0713	1.121	3.81	19.518	3.253	4.173	0.255	0.477	19.518	3.253	64.28	2658	6.000	19.518	2.953	88.41	2658	6.257	1.899	7.666	-0.734	4.264	0.970
1200S162-97	0.1017	1.576	5.36	26.966	4.494	4.137	0.331	0.459	26.966	4.494	107.85	7814	6.000	26.966	4.494	159.42	7814	6.000	5.433	10.187	-0.713	4.223	0.971
1200S200-54 ¹	0.0566	0.953	3.24	17.662	2.944	4.306	0.393	0.643	17.662	2.658	52.52	1321	6.281	17.662	2.143	64.17	1321	6.836	1.017	11.462	-1.047	4.478	0.945
1200S200-68	0.0713	1.192	4.06	21.947	3.658	4.291	0.479	0.634	21.947	3.658	81.40	2658	6.000	21.947	3.265	97.75	2658	6.300	2.020	14.038	-1.036	4.459	0.946
1200S200-97	0.1017	1.677	5.71	30.417	5.069	4.258	0.635	0.615	30.417	5.069	117.87	7814	6.000	30.417	5.069	174.89	7814	6.000	5.783	18.876	-1.014	4.420	0.947
1200S250-54 ¹	0.0566	1.009	3.43	19.681	3.280	4.416	0.683	0.823	19.681	2.679	52.94	1321	6.521	19.681	2.238	67.01	1321	6.995	1.078	19.354	-1.395	4.704	0.912
1200S250-68	0.0713	1.263	4.30	24.484	4.081	4.402	0.836	0.813	24.484	3.963	78.31	2658	6.065	24.484	3.147	94.22	2658	6.643	2.141	23.796	-1.384	4.686	0.913
1200S250-97	0.1017	1.779	6.05	34.016	5.669	4.373	1.121	0.794	34.016	5.658	127.80	7814	6.004	34.016	5.446	183.15	7814	6.088	6.134	32.280	-1.361	4.648	0.914

¹ Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

See Section Properties Table Notes on page 6.

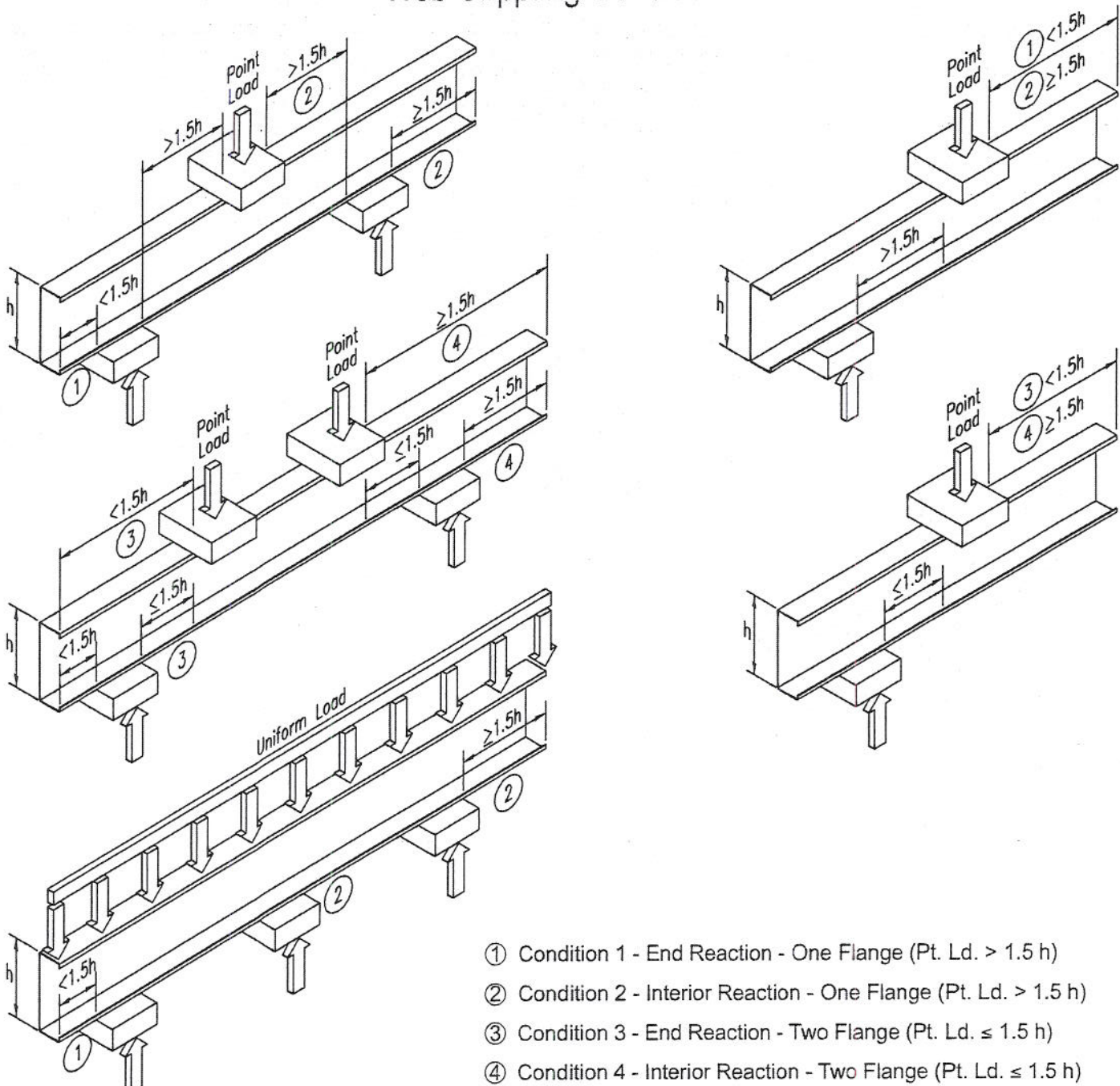


Web Crippling Load Tables

Web Crippling Load Table Notes

1. Only members with stiffened flanges are considered.
2. For multiple members, multiply the listed capacity of a single member by the number of members in the assembly.
3. For back-to-back members table, listed web crippling values are for the total system of two members.
4. For back to back members, the distance between the web connectors and the flange shall be kept to a minimum.
5. Web punchouts were not considered for the web crippling tables. A web crippling reduction factor is to be applied for web punchouts, per ICBO Acceptance Criteria AC46, Appendix B.

Web Crippling Conditions



- ① Condition 1 - End Reaction - One Flange (Pt. Ld. $> 1.5h$)
- ② Condition 2 - Interior Reaction - One Flange (Pt. Ld. $> 1.5h$)
- ③ Condition 3 - End Reaction - Two Flange (Pt. Ld. $\leq 1.5h$)
- ④ Condition 4 - Interior Reaction - Two Flange (Pt. Ld. $\leq 1.5h$)



Combined Axial and Lateral Load Tables

5 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	600S137-(mils)					600S162-(mils)					600S200-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
	24	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.99	4.44	7.56	10.02	15.60
9	12	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	16	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
	24	1.88	2.62	3.90	5.14	7.62	2.55	3.52	5.72	7.56	11.50	2.97	4.40	7.46	9.89	15.38
10	12	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
	16	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
	24	1.88	2.62	3.90	5.14	7.62	2.54	3.52	5.72	7.56	11.50	2.95	4.35	7.33	9.72	15.11
12	12	1.88	2.62	3.90	5.14	7.62	2.49 ¹	3.44	5.60	7.52	11.50	2.88	4.22	6.99	9.27	14.40
	16	1.88	2.62	3.90	5.14	7.62	2.49	3.44	5.60	7.52	11.50	2.88	4.22	6.99	9.27	14.40
	24	1.88	2.62	3.90	5.14	7.62	2.49	3.44	5.60	7.52	11.50	2.88	4.22	6.99	9.27	14.40
14	12	1.88	2.62	3.90	5.14	7.62	2.40	3.33	5.32	7.13	11.28	2.78	4.04	6.55	8.68	13.45
	16	1.88	2.62	3.90	5.14	7.62	2.40	3.33	5.32	7.13	11.28	2.78	4.04	6.55	8.68	13.45
	24	1.86	2.62	3.90	5.14	7.62	2.40	3.33	5.32	7.13	11.28	2.78	4.04	6.55	8.68	13.45
16	12	1.88	2.62	3.90	5.14	7.62	2.29	3.17	4.94	6.62	10.42	2.65	3.82	6.01	7.97	12.32
	16	1.88	2.62	3.90	5.14	7.62	2.29	3.17	4.94	6.62	10.42	2.65	3.82	6.01	7.97	12.32
	24	1.64 ⁷	2.62	3.90	5.14	7.62	2.09 ⁷	3.17	4.94	6.62	10.42	2.49	3.82	6.01	7.97	12.32

5 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	800S137-(mils)					800S162-(mils)					800S200-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
9	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
10	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
12	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.07	4.58	7.85	10.38	16.07
14	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.03	4.51	7.70	10.25	16.07
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.03	4.51	7.70	10.25	16.07
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	3.03	4.51	7.70	10.25	16.07
16	12	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	2.97	4.40	7.41	9.87	15.52
	16	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	2.97	4.40	7.41	9.87	15.52
	24	1.79	2.50	3.62	4.80	7.27	2.49	3.44	5.51	7.32	11.33	2.97	4.40	7.41	9.87	15.52

15 psf Lateral Load

Wall Height (ft)	Spacing (in.) o.c.	350S162-(mils)				362S137-(mils)				362S162-(mils)				362S200-(mils)			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	2.03	2.76	4.09	5.14	1.67	2.32	3.42	4.42	2.08	2.85	4.27	5.44	2.49	3.50	5.34	6.76
	16	1.86	2.76	4.09	5.14	1.50	2.32	3.42	4.42	1.96	2.85	4.27	5.44	2.41	3.50	5.34	6.76
	24	1.49 ⁶	2.51 ⁷	4.09	5.14	1.16 ⁶	2.04 ⁷	3.42	4.42	1.59 ⁶	2.64	4.27	5.44	2.00 ⁷	3.30	5.34	6.76
9	12	1.80	2.66	3.83	4.80	1.46 ⁷	2.26	3.27	4.19	1.90	2.75	4.04	5.12	2.34	3.37	5.02	6.32
	16	1.57 ⁶	2.53 ⁷	3.83	4.80	1.25 ⁶	2.10 ⁷	3.27	4.19	1.67 ⁶	2.67	4.04	5.12	2.08 ⁷	3.31	5.02	6.32
	24	1.13 ⁶	2.09 ⁶	3.71 ⁶	4.80 ⁷	0.86 ³	1.70 ⁶	3.21 ⁶	4.19 ⁷	1.23 ⁶	2.24 ⁶	3.99 ⁷	5.12	1.60 ⁶	2.80 ⁷	5.02	6.32
10	12	1.53 ⁶	2.44 ⁷	3.53	4.43	1.24 ⁶	2.05 ⁷	3.07	3.91	1.63 ⁶	2.59	3.78	4.75	2.04 ⁷	3.19	4.68	5.85
	16	1.26 ⁶	2.17 ⁶	3.53 ⁷	4.43	1.00 ⁶	1.80 ⁶	2.70 ⁶	3.91	1.37 ⁶	2.32 ⁶	3.78 ⁷	4.75	1.74 ⁶	2.87 ⁷	4.68	5.85
	24	0.78 ³	1.68 ³	3.11 ⁶	4.40 ⁶	0.56 ³	1.35 ³	3.04 ⁶	3.83 ⁶	0.88 ³	1.82 ⁶	3.40 ⁶	4.75 ⁶	1.20 ³	2.29 ⁶	4.32 ⁶	5.85 ⁷
12	12	1.00 ³	1.78 ⁶	2.83 ⁶	3.64 ⁶	0.80 ³	1.50 ⁶	2.56 ⁶	3.30 ⁶	1.10 ³	1.93 ⁶	3.11 ⁶	3.94 ⁷	1.43 ⁶	2.38 ⁶	3.89 ⁷	4.82
	16	0.71 ²	1.47 ³	2.54 ⁶	3.57 ⁶	0.53 ²	1.21 ³	2.30 ³	3.18 ⁶	0.80 ³	1.61 ³	2.81 ⁶	3.93 ⁶	1.08 ³	2.01 ⁶	3.54 ⁶	4.82 ⁶
	24	0.18 ²	0.91 ²	2.03 ³	3.07 ³		0.69 ²	1.84 ²	2.70 ³	0.26 ²	1.04 ²	2.27 ³	3.40 ³	0.47 ²	1.34 ³	2.92 ³	4.34 ⁶
14	12	0.56 ²	1.19 ³	2.02 ³	2.85 ⁶	0.42 ²	0.99 ²	1.86 ³	2.56 ³	0.65 ²	1.32 ³	2.24 ³	3.14 ⁶	0.88 ³	1.65 ³	2.80 ⁶	3.92 ⁶
	16	0.26 ²	0.87 ²	1.73 ²	2.56 ³	0.14 ²	0.69 ²	1.59 ²	2.28 ³	0.34 ²	0.99 ²	1.93 ³	2.83 ³	0.53 ²	1.26 ³	2.45 ³	3.58 ⁶
	24		0.32 ²	1.22 ²	2.05 ²		0.16 ¹	1.13 ²	1.79 ²		0.42 ²	1.40 ²	2.30 ²		0.58 ²	1.84 ²	2.98 ³
16	12	0.23 ²	0.72 ²	1.41 ²	2.08 ³	0.13 ²	0.58 ²	1.31 ²	1.87 ²	0.29 ²	0.83 ²	1.58 ²	2.31 ³	0.45 ²	1.06 ²	2.00 ³	2.91 ³
	16		0.42 ²	1.13 ²	1.80 ²		0.29 ¹	1.06 ²	1.60 ²		0.51 ²	1.29 ²	2.01 ²	0.11 ²	0.68 ²	1.66 ²	2.58 ³
	24			0.65 ¹	1.32 ²			0.61 ¹	1.13 ¹			0.77 ¹	1.50 ²			1.07 ²	2.01 ²

1 Deflection exceeds L/120
 2 Deflection exceeds L/240
 3 Deflection exceeds L/360

6 Deflection exceeds L/600
 7 Deflection exceeds L/720
 - If not noted, deflection is less than L/720

See Combined Axial and Lateral Load Table Notes on page 20.





Project	PANERA - SAN RAFAEL	Date	8-26-09
Subject	TRANSFORMER PLATFORM - LATERAL	By	JR

SEISMIC

Coefficients from Existing Building Drawings:

Site Class C

$$F_a = 1.0$$

$$F_v = 1.3$$

$$S_s = 1.5$$

$$S_1 = 0.60$$

$$S_{ds} = 1.0$$

$$S_{d1} = 0.52$$

Lightgauge wood shear walls independent from existing structure $R = 6.5$ $\rho_o = 3$ $C_d = 4$

(ASCE 7-02 A13)
Table 12.2-1

$$C_s = \frac{S_{ds}}{R/I} = \frac{1.0}{6.5/1.0} = 0.15$$

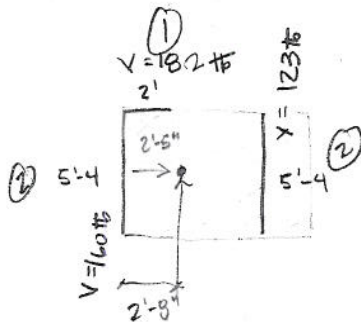
$$p = 1.3$$

$$V = 0.15(1.3) W_p$$

$$W_p = 10 \text{ psf} \left(8'-2" \times 5'-4" \right) + 835 \text{ lb}$$

$$= 1270 \text{ lb}$$

$$V = 247 \text{ lb}$$



- 3 sided box analysis

Light framed shear walls & plywood diaphragm.

See attached rigid diaphragm

load distribution.



Dibble Engineers, Inc
1029 Market Street
Kirkland, WA 98033

Title :
Dsgnr :
Description :

Job #
Date: 1:47PM, 26 AUG 09

T10

Scope :

Rev: 580002
User: KW-0606102, Ver 5.8.0, 1-Dec-2003
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Rigid Diaphragm Torsional Analysis

Page 1
transformer.ecw:Calculations

Description

General Information

Y-Y Axis Shear	0.25 k	Min. X Axis Ecc	5.00 %	X Axis Center of Mass	2.50 ft
X-X Axis Shear	0.25 k	Min. Y Axis Ecc	5.00 %	Y Axis Center of Mass	2.67 ft
...Shears are applied on each axis separately				Max X Dimension	8.17 ft
				Max Y Dimension	5.33 ft

Wall Data

Label	Thickness in	Length ft	Height ft	Wall Xcg ft	Wall Ycg ft	Wall Angle deg CCW	Wall End Fixity	E
1	6.000	5.330	12.000	0.000	2.667	90.0	Fix-Fix	1.0
2	6.000	2.000	12.000	1.000	5.330	0.0	Fix-Fix	1.0
3	6.000	5.330	12.000	6.000	2.670	90.0	Fix-Fix	1.0

Calculated Wall Forces

Label	Load Location for Maximum Forces		Direct Shears k		Torsional Shears k		Final Max. Wall Shear k
	X	Y	Length	Thick	Length	Thick	
1	-0.904	0.000	0.123	0.000	0.037	0.000	0.160
2	0.000	-1.695	-0.182	0.000	0.001	-0.000	-0.182
3	-0.904	0.000	0.123	0.000	-0.037	0.000	0.123

Summary

X Distance to Center of Rigidity	2.995 ft	Controlling Eccentricities & Forces from Applied Y-Y Shear			
Y Distance to Center of Rigidity	4.631 ft	Xcm + (Min%*MaxX) - X-cr =	-0.087 ft	Torsion =	-0.02 k-ft
		Xcm - (Min%*MaxX) - X-cr =	-0.904 ft	Torsion =	-0.22 k-ft
X Accidental Eccentricity	0.409 ft	Controlling Eccentricities & Forces from Applied X-X Shear			
Y Accidental Eccentricity	0.267 ft	Ycm + (Min%*MaxY) - Y-cr =	-1.695 ft	Torsion =	-0.42 k-ft
		Ycm - (Min%*MaxY) - Y-cr =	-2.228 ft	Torsion =	-0.55 k-ft



DIBBLE ENGINEERS, INC.

Project No.
09-400

Sheet No.
T 11

Project
PAVERA SAN RAFAEL

Date
9-26-09

Subject
TRANSFORMER PLATFORM - SW DESIGN

By
JR

WALL ①

Perforated SW analysis. $H:W = 7:2' < 4:1$ OK

$$\text{Percent of full height SW} = \frac{2 + 2.5}{8} = 0.5625$$

$$\text{Maximum opening height ratio} = \frac{7'}{12'} = 0.5833$$

from interpolation the shear resistance
Adjustment factor $\phi_a = 0.77$

$$V_{req'd} = \frac{182 \text{ lb}}{4.5' (0.77)} \times \frac{1}{\frac{2w/h}{.571}} = 92 \text{ plf}$$

SW-1

Uplift

$$C = \frac{Vh}{C_a \phi L} = \frac{182 \text{ lb} (12')}{0.77 (4.5)} = 630 \text{ lb}$$

5/8" anchor
S/HDU4 6#14 stud
(2) 33mil stud
2320lb

Strap over door

$$C = \frac{182 \text{ lb} (7')}{0.77 (4.5)} = 368 \text{ lb}$$

LSTA 9 w/ 8-#10

Wall ②

$w/h = 2.25:1 \therefore$ increase $2w/h$

$$L = 5'-4"$$

$$H = 12'-0"$$

$$F = 160 \text{ lb}$$

$$V = 160 \text{ lb} / 5.33' \times \frac{1}{2(5.33)/12} = 34 \text{ plf}$$

SW-1

$$M_{OT} = 12' (160 \text{ lb}) = 1920 \text{ lb}\cdot\text{ft}$$

$$M_R = 10 \text{ psf} (12') (5.33)^2 \frac{1}{2} + \frac{835 \text{ lb}}{2} (2.5') = 2748 \text{ lb}\cdot\text{ft}$$

$$H_D = \frac{1920 \text{ lb}\cdot\text{ft} - 0.6 (2748 \text{ lb}\cdot\text{ft})}{5.33'} = -5.4 \text{ lb} \therefore \text{no uplift.}$$

in that segment are multiplied by $2w/h$.

C3.2.4 Adjusted Shear Resistance

The *adjusted shear resistance* shall be calculated by multiplying the *unadjusted shear resistance* by the shear resistance adjustment factors of Table C3.2-1. For intermediate values of opening height ratio and percentages of full-height sheathing the shear resistance adjustment factors shall be permitted to be determined by interpolation.

Table C3.2-1
SHEAR RESISTANCE ADJUSTMENT FACTOR- C_a

Wall Height (h)	Maximum Opening Height Ratio ¹ and Height				
	h/3	h/2	2h/3	5h/6	h
8'-0" (2440 mm)	2'-8" (810 mm)	4'-0" (1220 mm)	5'-4" (1630 mm)	6'-8" (2030 mm)	8'-0" (2440 mm)
10'-0" (3050 mm)	3'-4" (1020 mm)	5'-0" (1530 mm)	6'-8" (2030 mm)	8'-4" (2540 mm)	10'-0" (3050 mm)
Percent Full-Height Sheathing ²	Shear Resistance Adjustment Factor				
10%	1.00	0.69	0.53	0.43	0.36
20%	1.00	0.71	0.56	0.45	0.38
30%	1.00	0.74	0.59	0.49	0.42
40%	1.00	0.77	0.63	0.53	0.45
50%	1.00	0.80	0.67	0.57	0.50
60%	1.00	0.83	0.71	0.63	0.56
70%	1.00	0.87	0.77	0.69	0.63
80%	1.00	0.91	0.83	0.77	0.71
90%	1.00	0.95	0.91	0.87	0.83
100%	1.00	1.00	1.00	1.00	1.00

1 See Section C3.2.2

2 See Section C3.2.1

C3.3 Anchorage and Load Path

Design of *Type II shear wall* anchorage and load path shall conform to the requirements of this section, or shall be calculated using principles of mechanics.

C3.3.1 Anchorage for In-Plane Shear

The unit shear force, v , transmitted into the top and out of the base of the *Type II shear wall* full-height sheathing segments, and into *collectors* (drag struts) connecting *Type II shear wall segments*, shall be calculated in accordance with the following:

$$v = \frac{V}{C_a \sum L_i}$$

(Eq. C3.3-1)

where:

- v = unit shear force (plf, kN/m)
- V = shear force in *Type II shear wall* (lbs, kN)
- C_a = shear resistance adjustment factor from Table C3-1
- $\sum L_i$ = sum of widths of *Type II shear wall segments* (feet, mm/1000)

C3.3.2 Uplift Anchorage at Type II Shear Wall Ends

Anchorage for uplift forces due to overturning shall be provided at each end of the

interpolate 0.77

- 3) Where fully blocked gypsum board is applied to the opposite side of this assembly, per Table C2.1-2 with screw spacing at 7 inches (178 mm) o.c. edge and 7 inches (178 mm) o.c. field, these *nominal strengths* are permitted to be increased by 30%.
- 4) See Section C2.1 for requirements for sheathing applied to both sides of wall.
- 5) *Shear wall* height to width aspect ratio's (h/w) greater than 2:1, but not exceeding 4:1, are permitted provided the *nominal* shear strength is multiplied by 2w/h. See Section C2.1.
- 6) Shear values permitted for use in seismic design where the seismic response modification factor, R, is taken equal to or less than 3, subject to the limitations in Section C1.1.
- 7) For SI: 1" = 25.4 mm, 1 foot = 0.305 m, 1 lb = 4.45 N

TABLE C2.1-2
NOMINAL SHEAR STENGTH, (R_n), FOR WIND AND SEISMIC LOADS
FOR SHEAR WALLS FACED WITH GYPSUM BOARD^{1,2,3,4}
 (Pounds Per Foot)

Wall Construction	Max. Aspect Ratio (h/w)	Orientation	Screw Spacing (inches o.c.)		Nominal Shear Strength (lb/ft)
			Edge	Field	
½" gypsum board on one side of wall; studs max. 24" o/c	2:1	Gypsum board applied perpendicular to framing with strap blocking behind the horizontal joint and with solid blocking between the first two end studs or applied vertically with all edges attached to framing members	7	7	290
			4	4	425
			4	12	295
			8	12	230

1. *Nominal* shear strengths shall be multiplied by the *resistance factor* (ϕ) to determine *design strength* or divided by the *safety factor* (Ω) to determine *allowable* shear strengths as set forth in Section C2.1.
2. See Section C2.1 for requirements for sheathing applied to both sides of wall.
3. Unblocked assemblies are permitted provided the *nominal* shear strength values above are multiplied by 0.35.
4. For SI: 1" = 25.4 mm, 1 foot = 0.305 m, 1 lb = 4.45 N

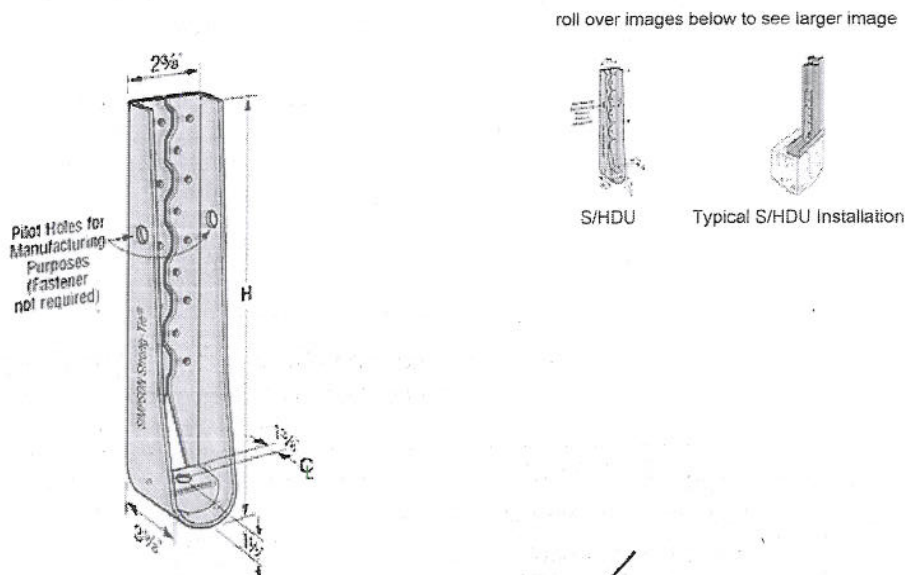
TABLE C2.1-3
NOMINAL SHEAR STRENGTH, (R_n), FOR SEISMIC LOADS FOR SHEAR WALLS^{1,4,7}
 (Pounds Per Foot)

Assembly Description	Max. Aspect Ratio (h/w)	Fastener Spacing at Panel Edges ² (inches)				Designation Thickness ^{5,6} of Stud and Track (mls)	Required Sheathing Screw Size
		6	4	3	2		
15/32" Structural 1 sheathing (4-ply), one side	2:1 ³	780	990	-	-	33 or 43	8
	2:1	890	1330	1775	2190	43 or 54	8
7/16" OSB, one side	2:1 ³	700	915	-	-	33	8
	2:1 ³	825	1235	1545	2060	43 or 54	8
	2:1	940	1410	1760	2350	54	8
	2:1	1232	1848	2310	3080	68	10
0.018" steel sheet, one side	2:1	390	-	-	-	33 (min.)	8
0.027" steel sheet, one side	4:1	-	1000	1085	1170	33 (min.)	8

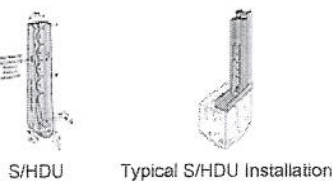
1. *Nominal* shear strength shall be multiplied by the *resistance factor* (ϕ) to determine *design strength* or divided by the *safety factor* (Ω) to determine *allowable* shear strength as set forth in Section C2.1.
2. Screws in the field of the panel shall be installed 12 inches (305 mm) o.c. unless otherwise shown.
3. *Shear wall* height to width aspect ratios (h/w) greater than 2:1, but not exceeding 4:1, are permitted provided the *nominal* shear strength are multiplied by 2w/h. See Section C2.1.
4. See Section C2.1 for requirements for sheathing applied to both sides of wall.

T14

Gallery:



roll over images below to see larger image



Load Table: See code report listings below

top

Model	Height	Fasteners		Stud Member Type mil (ga)	ASD		LRFD		Nominal Tension Load	
		Fdn Anchor Diameter	Stud Fasteners		Tension Load (100)	Deflection at ASD Load (133)	Tension Load	Deflection at LRFD Load		
S/HDU4	7 3/8	5/8	6 - #14	2-33 (2-20ga)	2320	2320	0.093	3705	0.149	5685
				2-43 (2-18ga)	3825	3825	0.115	6105	0.190	9365
				2-54 (2-16ga)	3970	3970	0.093	6345	0.156	9730
				Steel Fixture	3970	3970	0.038	6345	0.061	12120
S/HDU6	10 3/8	5/8	12 - #14	2-33 (2-20ga)	4895	4895	0.125	8850	0.271	10470
				2-43 (2-18ga)	5875	6125	0.119	9785	0.258	15460
				2-54 (2-16ga)	5875	6125	0.108	9785	0.234	15005
				Steel Fixture	5875	6125	0.061	9785	0.157	14695
S/HDU9	12 3/8	7/8	18 - #14	2-33 (2-20ga)	6965	6965	0.103	11125	0.189	13165
				2-43 (2-18ga)	9255	9255	0.125	15960	0.262	21810
				2-54 (2-16ga)	9990	9990	0.106	15960	0.225	24480
				Steel Fixture	9990	9990	0.059	15960	0.075	31455
S/HDU11 ^{1,2}	16 3/8	7/8	27 - #14	2-33 (2-20ga)	6965	6965	0.103	11125	0.189	13165
				2-43 (2-18ga)	11100	11100	0.125	19610	0.262	24955
				2-54 (2-16ga)	11500	12175	0.125	19445	0.243	29825
				Steel Fixture	11500	12175	0.107	19445	0.153	31715

1. Heavy hex nut is required to achieve the table loads for S/HDU11.
2. Allowable tension loads for S/HDU11 with regular hex nut is 9595 lb. and for 2-54 mil is 9675 lb.
3. The Designer shall specify the anchor embedment and configuration. See SSTB Anchor Bolts.
4. Back-to-back stud members are required unless otherwise specified.
5. 1/4" self-drilling screws can be substituted for #14.
6. See Holdown and Post Base Anchor Solutions for anchor bolt retrofit.
7. Tabulated loads shown at (100) do not include steel stress increase. Tabulated loads shown at (133) include a 1/3 stress increase on the steel. Refer to Steel Stress Increase for additional information.
8. Deflection Load: The deflection of a holdown measured between the anchor bolt and the strap portion of the holdown when loaded to the highest load listed in the catalog table. This movement is strictly due to the holdown deformation under a static load test with attached to members listed in the table above.
9. Nominal Tension Load is based on the average peak load from tests. AISI Lateral Design standard requires holdown to have nominal strength to resist lesser of amplified seismic load or what the system can deliver.

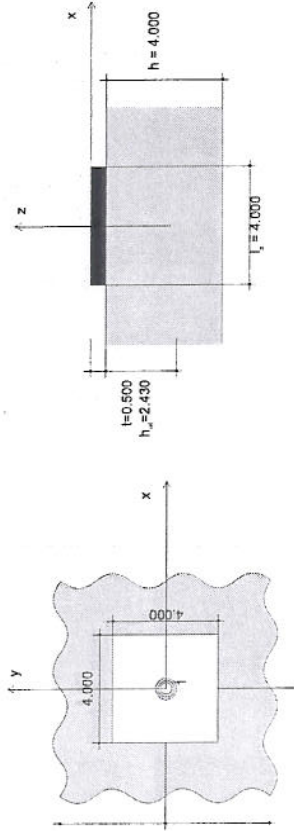
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 Specifier: Panera San Rafael
 Address: Panera San Rafael
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Specifier's comments:

1. Input data

Anchor type and diameter: HIT-RE 500-SD + HAS. 3/8
 Effective embedment depth: $h_{eff} = 2.430$ in. ($h_{min} = 2.750$ in.)
 Material: ASTM F 588M Class 5.8
 Evaluation Service Report: ESR 2322
 Issued | Valid: 11/1/2007 | -
 Proof: design method ACI 318 / AC308
 Stand-off installation: $e = 0.000$ in. (no stand-off); $l = 0.500$ in.
 Anchor plate: Custom; $l_w = 35998$ psi; $l_x, l_y, l_z = 4.000 \times 4.000 \times 4.000$ in. (Recommended plate thickness: not calculated)
 Profile: Round HSS; Steel pipe (AISC); ($l_x \times l_y \times l_z$) = 0.840 in. \times 0.840 in. \times 0.109 in.
 Base material: cracked concrete; $f_c = 3000$ psi; $f_t = 3000$ psi; $h = 4.000$ in.; Temp. shortlong: 32/32°F
 Installation: hammer drilled hole, installation condition: dry
 Reinforcement: condition B; no supplemental splitting reinforcement present
 edge reinforcement: none or < No. 4 bar

Geometry [in.]



Loading [lb, in.-lb]

Governing loads (Load case 1)

N	933
V _x	0
V _y	0
M _x	0.000
M _y	0.000
M _z	0.000

Eccentricity (structural section) [in.]
 $e_x = 0.000$; $e_y = 0.000$
 Seismic loads (cracked concrete assumed; categories C, D, E, or F): no

Governing loads (Load case 1)

N	933
V _x	0
V _y	0
M _x	0.000
M _y	0.000
M _z	0.000

Eccentricity (structural section) [in.]
 $e_x = 0.000$; $e_y = 0.000$
 Seismic loads (cracked concrete assumed; categories C, D, E, or F): no

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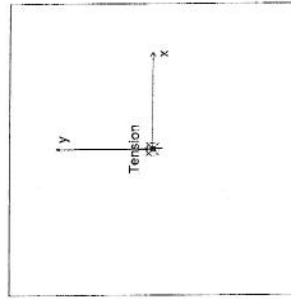
2. Load case/Resulting anchor forces

Load case (governing):

Anchor reactions [lb]
 Tension force (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	933	0	0	0

max. concrete compressive strain [%]: 0.00
 max. concrete compressive stress [psi]: 0
 resulting tension force in (x/y) = (0.00/0.00) [lb]: 933
 resulting compression force in (x/y) = (0.00) [lb]: 0



3. Tension load

Proof	Load N_{ax} [lb]	Capacity ϕN_{ax} [lb]	Utilization f_{ax} [%] = $N_{ax}/\phi N_{ax}$	Status
Steel Strength*	933	3653	26	OK
Bond Strength*	933	2028	46	OK
Concrete Breakout Strength**	933	2293	41	OK

* most unfavorable anchor **anchor group (anchors in tension)

Steel Strength

N_{ax} [lb]	ϕ	ϕN_{ax} [lb]	N_{ax} [lb]
5620	0.650	3653	933

Bond Strength

A_{ax} [in ²]	s_{ax} [in.]	c_{ax} [in.]	c [in.]	c_{ax} [in.]	V_{ax} [psi]	V_{ax} [psi]
53.14	53.14	7.290	3.645	393.701	1232	1,000
K_{ax}	$\tau_{ax,200}$ [psi]	c_{ax}	τ_{ax} [psi]	$\tau_{ax,200}$ [psi]	V_{ax}	V_{ax}
17	2285	1.00	1090	1322	1,000	1,000

Bond Strength

e_{ax} [in.]	$V_{ax,100}$	e_{ax} [in.]	$V_{ax,100}$
0.000	1,000	0.000	1,000
N_{ax} [lb]	ϕ	ϕN_{ax} [lb]	N_{ax} [lb]
3120	0.650	2028	933

T 15



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4. Shear load

Proof	Load V_{sa} [lb]	Capacity ϕV_n [lb]	Utilization β_n (%) = $V_{sa} / \phi V_n$	Status
Steel Strength*	N/A	N/A	N/A	N/A
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength**	N/A	N/A	N/A	N/A
Concrete edge failure in direction**	N/A	N/A	N/A	N/A

* most unfavorable anchor ** anchor group (relevant anchors)

Concrete Breakout Strength

A_{br} [in ²]	A_{br} [m ²]	c [in.]	c [m.]	$\phi_c N_{br}$ [lb]	$\phi_c N_{br}$ [kN]
53.14	53.14	393.701	4.874	17,000	17,000
$\phi_c N_{br}$ [lb]	$\phi_c N_{br}$ [kN]	$\phi_c N_{br}$ [lb]	$\phi_c N_{br}$ [kN]	$\phi_c N_{br}$ [lb]	$\phi_c N_{br}$ [kN]
3527	0.850	2293	933		

5. Allowable Stress Design (Refer to ICC-ES Evaluation Service Report)
 single anchor relevant (tension); relevant to a single anchor (shear)

Reference for load	Tension [lb]		Shear [lb]	
	including seismic	excluding seismic	including seismic	excluding seismic
ACI318 Section D.4.4		2028		0
ACI318 Section D.4.5		1014		0

$R_{tension} = R_n / \gamma$
 $T/T_{design} + V/V_{design} \leq 1.2$

6. Proof of the transmission of the anchor loads to the supports
 Transmission of the anchor loads into the concrete
 Checking the transfer of loads into the base is required in accordance with ACI318
 Shear resistance of base material
 Shear resistance of the base material must be checked according to relevant approval or standard!

7. Warnings
 Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
 Design strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions
 The present version of the software does not account for special design provisions for overhead applications. Refer to related approval (e.g. section 4.1.1 of the ICC-ESR 2322) for details.
 IBC 2006, Section 1908.1.16, requires that the governing design strength of an anchor or group of anchors be limited by ductile steel failure, if this is NOT the case. ACI 318-D Section D.3.3.5 requires that the attachment that the anchor is connecting to the structure shall be designed so that the attachment will undergo ductile yielding at a load level corresponding to anchor forces no greater than the design strength of anchors specified in ACI 318-D section D.3.3.3, or the minimum design strength of the anchors shall be at least 2.5 times the factored forces transmitted by the attachment.

Fastening meets the design criteria!

T17

Load Table: See code report listings below

top

Available with additional corrosion protection. Check with factory.

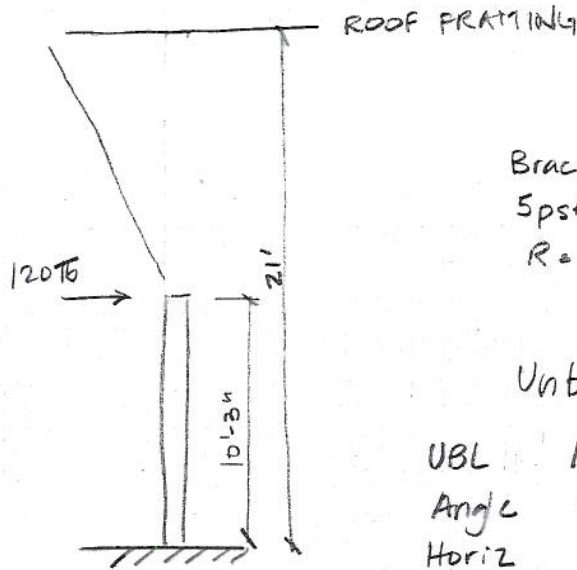
Model No.	Material Thick. mill (ga)	Dimensions		Fasteners (Total)			Allowable Tension Loads				
				Rafter/Stud/Joist Thickness			33 mil (20 ga)		43 mil (18 ga)		54 mil
		W	L	33 mil (20 ga)	43 mil (18 ga)	54 mil (16 ga)	(100)	(133)	(100)	(133)	(100)
LSTA9	33 (20 ga)	1 1/4	9	8- #10	8- #10	8- #10	705	945	1120	1495	1190
LSTA12		1 1/4	12	10- #10	10- #10	8- #10	885	1180	1190	1590	1190
LSTA15		1 1/4	15	12- #10	12- #10	10- #10	1060	1415	1190	1590	1190
LSTA18		1 1/4	18	14- #10	12- #10	10- #10	1190	1590	1190	1590	1190
LSTA21		1 1/4	21	14- #10	12- #10	10- #10	1190	1590	1190	1590	1190
LSTA24		1 1/4	24	14- #10	12- #10	10- #10	1190	1590	1190	1590	1190
ST292		2 1/16	9 5/16	12- #10	10- #10	10- #10	1060	1415	1240	1650	1240
ST2122		2 1/16	12 19/16	16- #10	12- #10	10- #10	1415	1885	1502	2005	1502
ST2115		3/4	16 9/16	8- #10	6- #10	4- #10	630	840	630	840	630
ST2215		2 1/16	16 9/16	20- #10	14- #10	10- #10	1765	2355	1825	2435	1825
LSTA30	43 (18 ga)	1 1/4	30	18- #10	12- #10	10- #10	1555	2070	1555	2070	1555
LSTA36		1 1/4	36	18- #10	16- #10	14- #10	1555	2070	1555	2070	1555
LSTI49		3 3/4	49	32- #10	32- #10	20- #10	2830	3770	4050	5400	4050
LSTI73		3 3/4	73	46- #10	32- #10	20- #10	4050	5400	4050	5400	4050
MSTA9		1 1/4	9	8- #10	8- #10	8- #10	705	945	1050	1405	1555
MSTA12		1 1/4	12	10- #10	10- #10	8- #10	885	1180	1315	1755	1555
MSTA15		1 1/4	15	12- #10	12- #10	10- #10	1060	1415	1555	2070	1555
MSTA18		1 1/4	18	14- #10	12- #10	10- #10	1235	1650	1555	2070	1555
MSTA21		1 1/4	21	16- #10	12- #10	10- #10	1415	1885	1555	2070	1555
MSTA24		1 1/4	24	18- #10	12- #10	10- #10	1555	2070	1555	2070	1555
MSTA30	54 (16 ga)	1 1/4	30	22- #10	16- #10	12- #10	1945	2590	1950	2600	1950
MSTA36		1 1/4	36	24- #10	18- #10	16- #10	1950	2600	1950	2600	1950
ST6215		2 1/16	16 5/16	20- #10	16- #10	10- #10	1765	2355	2025	2705	2025
ST6224		2 1/16	23 5/16	28- #10	20- #10	12- #10	2455	3275	2455	3275	2455
ST9		1 1/4	9	8- #10	8- #10	8- #10	705	945	1050	1405	1350
ST12		1 1/4	11 5/8	10- #10	10- #10	8- #10	885	1180	1315	1755	1350
ST18		1 1/4	17 3/4	14- #10	12- #10	12- #10	1235	1650	1350	1800	1350
ST22		1 1/4	21 5/8	20- #10	20- #10	20- #10	1350	1800	1350	1800	1350
MSTC28		3	28 1/4	36- #10	36- #10	30- #10	3180	4240	4600	6130	4600
MSTC40		3	40 1/4	52- #10	46- #10	46- #10	4595	6125	4600	6130	4600
MSTC52	3	52 1/4	54- #10	42- #10	42- #10	4600	6130	4600	6130	4600	
MSTC66	3	65 3/4	66- #10	46- #10	30- #10	5795	7725	5795	7725	5795	
MSTC78	3	77 3/4	66- #10	46- #10	30- #10	5795	7725	5795	7725	5795	
ST6236	2 1/16	33 19/16	40- #10	30- #10	18- #10	3535	4715	3760	5015	3760	
HRS6	97 (12 ga)	1 3/8	6	6- #10	6- #10	6- #10	530	705	790	1050	1600
HRS8		1 3/8	8	10- #10	10- #10	10- #10	885	1180	1315	1755	2670
HRS12		1 3/8	12	14- #10	14- #10	12- #10	1235	1650	1840	2455	2710
FHA6		1 7/16	6 3/8	8- #10	8- #10	8- #10	705	945	1050	1405	2045
FHA9		1 7/16	9	8- #10	8- #10	8- #10	705	945	1050	1405	2045
FHA12		1 7/16	11 5/8	8- #10	8- #10	8- #10	705	945	1050	1405	2045
FHA18		1 7/16	17 3/4	8- #10	8- #10	8- #10	705	945	1050	1405	2045
FHA24		1 7/16	23 3/8	8- #10	8- #10	8- #10	705	945	1050	1405	2045
FHA30		1 7/16	30	8- #10	8- #10	8- #10	705	945	1050	1405	2045
MSTI26		2 1/16	26	26- #10	26- #10	22- #10	2300	3065	3420	4560	5025
MSTI36	2 1/16	36	36- #10	36- #10	22- #10	3180	4240	4735	6310	5025	
MSTI48	2 1/16	48	48- #10	40- #10	22- #10	4240	5655	5025	6700	5025	
MSTI60	2 1/16	60	58- #10	40- #10	22- #10	5025	6700	5025	6700	5025	
MSTI72	2 1/16	72	62- #10	58- #10	54- #10	5025	6700	5025	6700	5025	
S/MST27	2 1/16	27	30- #10	30- #10	22- #10	2650	3535	3945	5260	5025	
S/MST37	2 1/16	37	42- #10	40- #10	22- #10	3710	4950	5025	6700	5025	
S/MST48	2 1/16	48	54- #10	40- #10	24- #10	4770	6365	5155	6870	5155	
S/MST60	118 (10 ga)	2 1/16	60	68- #10	52- #10	30- #10	6010	8010	6650	8865	6650
S/MST72		2 1/16	72	76- #10	52- #10	30- #10	6650	8865	6650	8865	6650

1. Use half of the fasteners in each member being connected to achieve the listed loads.



DIBBLE ENGINEERS, INC.

Project No. 09-400	Sheet No. T18
Project PANERA	Date 8-27-09
Subject WALL BRACING	By JR



Braces @ 4'-0" o.c.
 5psf partition load
 $R = \frac{10.25'(4')}{2} (5psf) = 120 \text{ lb}$

Unbraced length vs force

UBL	16'	14'	12'
Angle	47.8°	39.8°	26.38°
Horiz	11.85'	8.95'	5'4"
Force	162 lb	187 lb	270 lb
Allow Axial	N/A	74 Lb	452 lb
		3625162-97	3625162-33
Use	2:1 slope	362162-33	



SECTION DESIGNATION: 362S162-33 Single

INPUT PROPERTIES:

Web Height =	3.625 in	Steel Thickness =	0.0346 in
Top Flange =	1.625 in	Inside Corner Radius =	0.0765 in
Bottom Flange =	1.625 in	Yield Stress, Fy =	33.0 ksi
Stiffening Lip =	0.500 in	Fy With Cold-Work, Fya =	33.0 ksi
Punchout Width =	1.500 in	Punchout Length =	4.000 in

Wall Solver Design Data - Simple Span

Wall Height 12.00 ft	Deflection Limit L/180
Lateral Pressure 5.00 psf	Axial Load 230 lb
Stud Spacing 6.0 in	

Check Flexure

Load Multiplier for Flexural Strength = 1.00
Input Flexural Bracing: None
Cb = 1.14
Me = 258 Ft-Lb My = 836 Ft-Lb Me <= 0.56 My
Mc = 258 Ft-Lb Sc/Sf = 0.97
Mmax = 45 Ft-Lb <= Ma = 150 Ft-Lb

Check Deflection

Deflection Limit: L/180
Load Multiplier for Deflection = 1.00
Maximum Deflection = 0.072 in Deflection Ratio = L/2007

Check Shear

Vmax = 15 lb (Including Flexural Load Multiplier)
Shear capacity not reduced for punchouts near ends of member
Va = 1024 lb >= Vmax

Check Web Crippling

Rmax = 15 lb (Including Flexural Load Multiplier)
Web Crippling capacity not reduced for punchouts near ends of member
End Bearing Length = 1.00 in
Ra = 165 lb >= Rmax, stiffeners not required

Check Axial Interactions

P = 230 lb (Including Axial Load Multiplier)
Axial Loads Multiplied by 1.00 for Interaction Checks
Max unbraced length, KyLy and KtLt = 144.0 in **Max KL/r = 234**
Allowable Pure Axial Load, Pa = 452 lb : Axial Load Ratio, P/Pa = 0.509

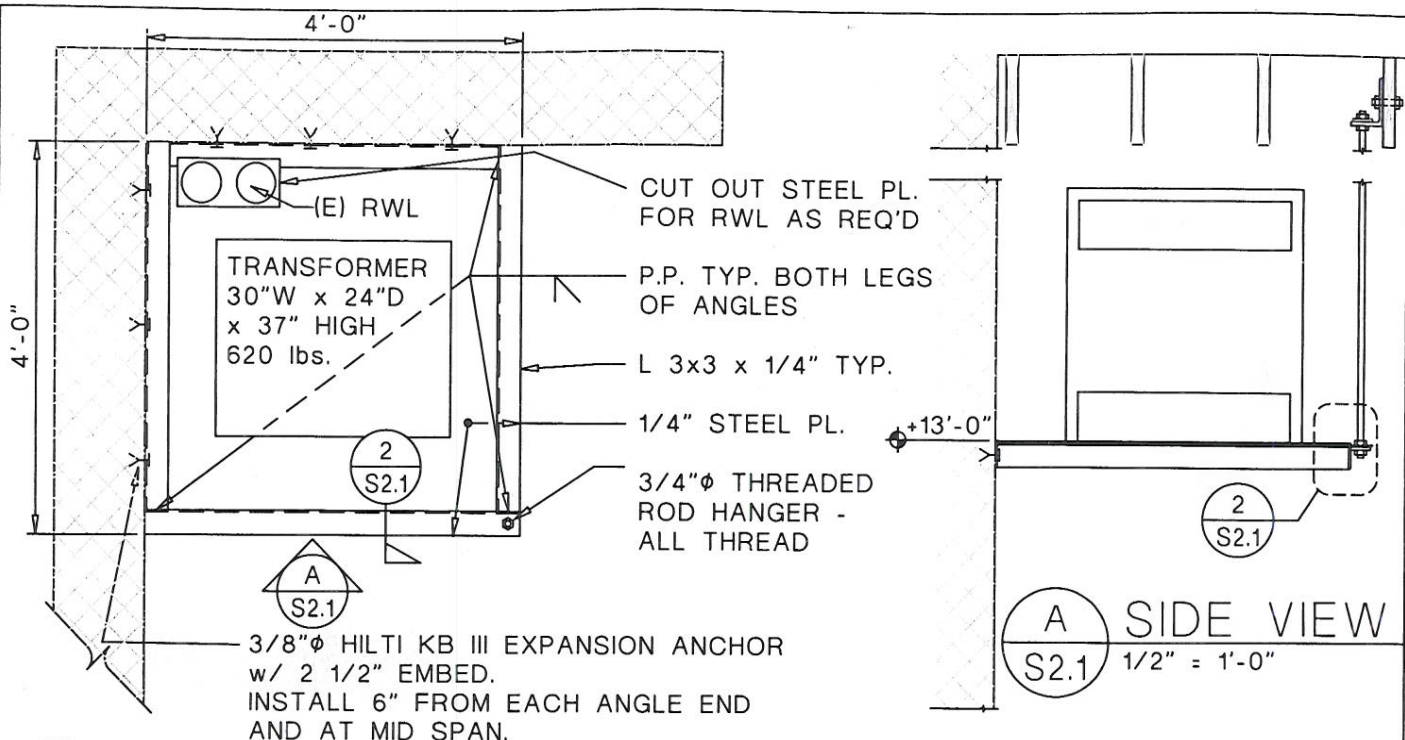
Check Equation C5.2.1-1

Cmx = 1.00
Pcr = 7739 lb Alpha = 0.943
Equation C5.2.1-1 = 0.826

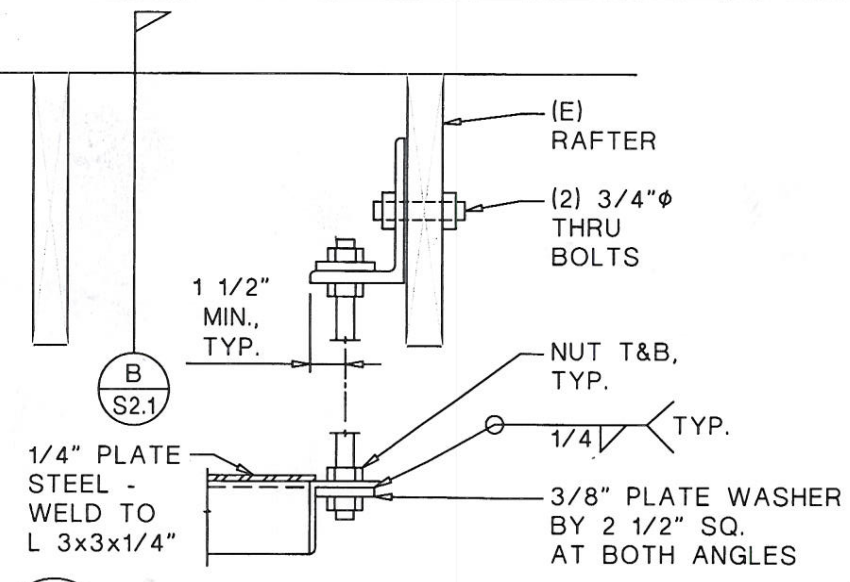
Check Equation C5.2.1-2

Pao = 3176 lb
Equation C5.2.1-2 = 0.372

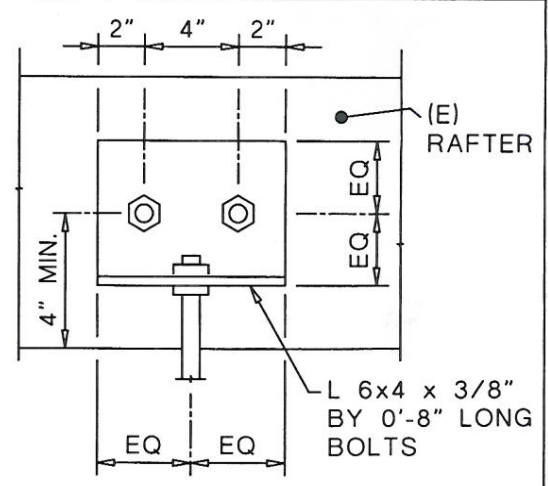
Maximum Interaction = 0.826 <= 1.0



1 TRANSFORMER SUPPORT PLATFORM
 S2.1 SCALE: 1/2" = 1'-0"



2 DETAIL - HANGER
 S2.1 SCALE: 1 1/2" = 1'-0"



DETAIL - HANGER BRACKET
 B S2.1 SCALE: 1 1/2" = 1'-0"

B0909-033



The Mall at Northgate **Roadside BBQ** San Rafael, California

Title: TRANSFORMER SUPPORT PLATFORM

Date: November 18, 2009 Scale: AS NOTED Sheet No.: S2.1

Thompson Planning & Design

244 Magnolia Avenue, Larkspur, California 94939 cthompson@tp-d.com tel. (415) 927-9772 fax (415) 927-9771



Permit #:

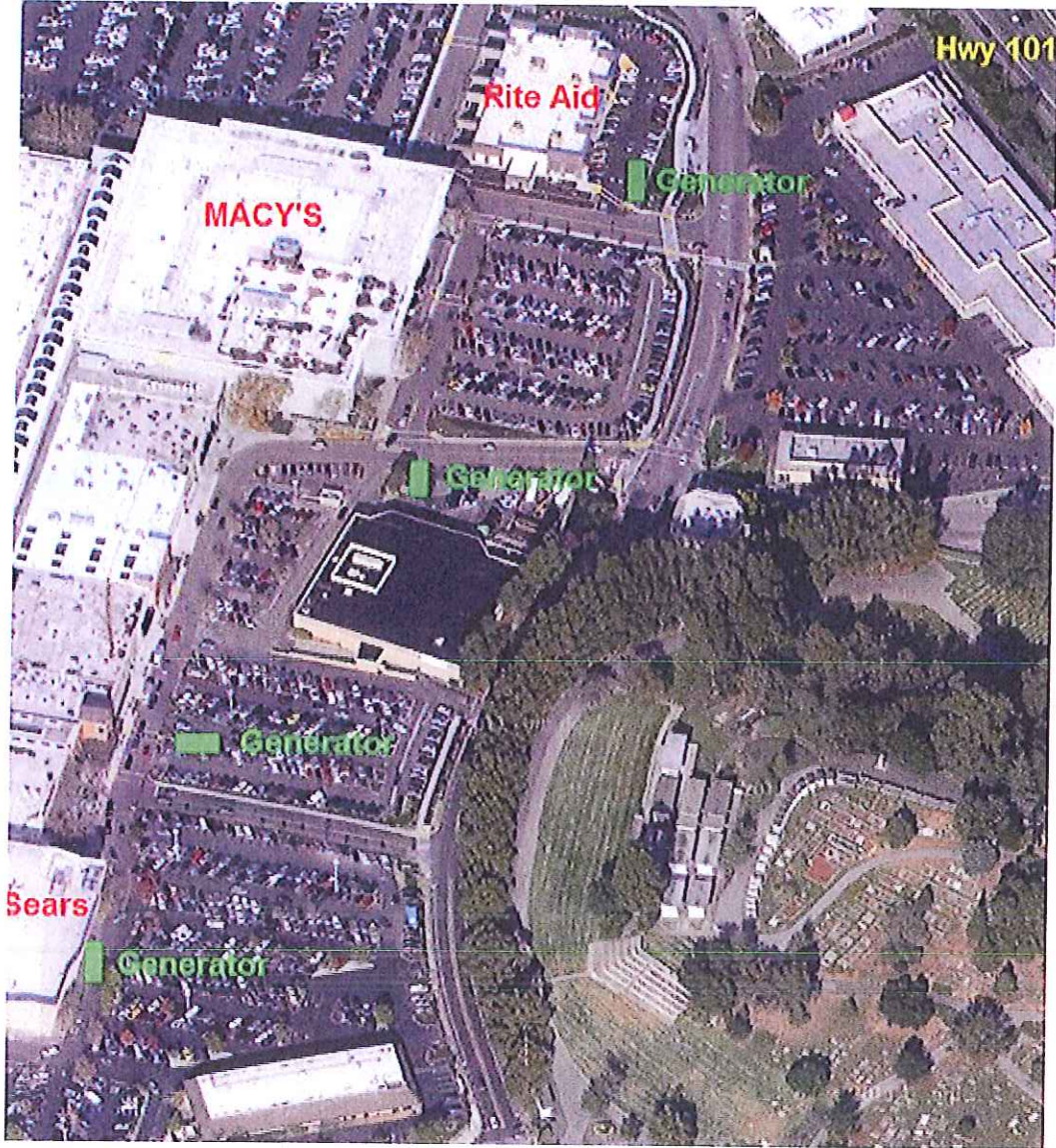
F1110-021

FIRE PERMIT

Address 5800 NORTHGATE DR				Related Bldg Permit:																	
Description of Work 4 Generators			APN 175-060-60		Appl. Date: 10/20/2011 Issued Date: 10/20/2011																
Owner Information NORTHGATE MALL ASSOC 2235 FARADAY AVE SUITE O CARLSBAD CA 92008 phone: fax:		Contractor Information phone: fax:		Tenant Information phone: fax:																	
Architect Information phone: fax:		Engineer Information phone: fax:		Applicant Information PG&E 1100 S. 27th St Richmond, CA phone: (415) 238-6547 fax:																	
Property Information				Special Conditions																	
<table border="1"> <thead> <tr> <th colspan="4">Setbacks</th> <th rowspan="2">Lot Size (SF)</th> <th rowspan="2">Zoning</th> </tr> <tr> <th>Front</th> <th>Left</th> <th>Right</th> <th>Rear</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1,275,829</td> <td>GC</td> </tr> </tbody> </table>				Setbacks				Lot Size (SF)	Zoning	Front	Left	Right	Rear	0	0	0	0	1,275,829	GC		
Setbacks				Lot Size (SF)	Zoning																
Front	Left	Right	Rear																		
0	0	0	0	1,275,829	GC																
<i>(The above is based on available data. The City of San Rafael does not certify the accuracy of this information.)</i>																					
Building Square Footage																					
Existing 0		Proposed 0		Decks/Balc./Porches 0																	
				Garage / Carport																	
Plans Reviewed By: Fire Prevention David Heida		Fees Charged CFC Operational Permit \$220.00 Small Sheet Archiving \$3.90		Applicant Certification By my signature below, I certify to each of the following: <input type="checkbox"/> I am a California licensed contractor <input type="checkbox"/> the property owner* <input type="checkbox"/> authorized to act on the property owner's behalf* I have read this construction permit application and the information I have provided is correct. I agree to comply with all applicable city and county ordinances and state laws relating to building construction. I authorize representatives of this city or county to enter the above-identified property for inspection purposes. Signature: <u></u> Print Name: <u>KURT KIDWELL</u> Date: <u>10/20/11</u>																	
Permit Issued By: BRC		Total Permit Fees \$ 223.90		*requires separate verification form and proof of identity																	

SAN RAFAEL BUILDING AND FIRE PREVENTION DIVISION

1400 Fifth Avenue Phone: (415) 485-3367
 San Rafael, CA Fax: (415) 485-3184



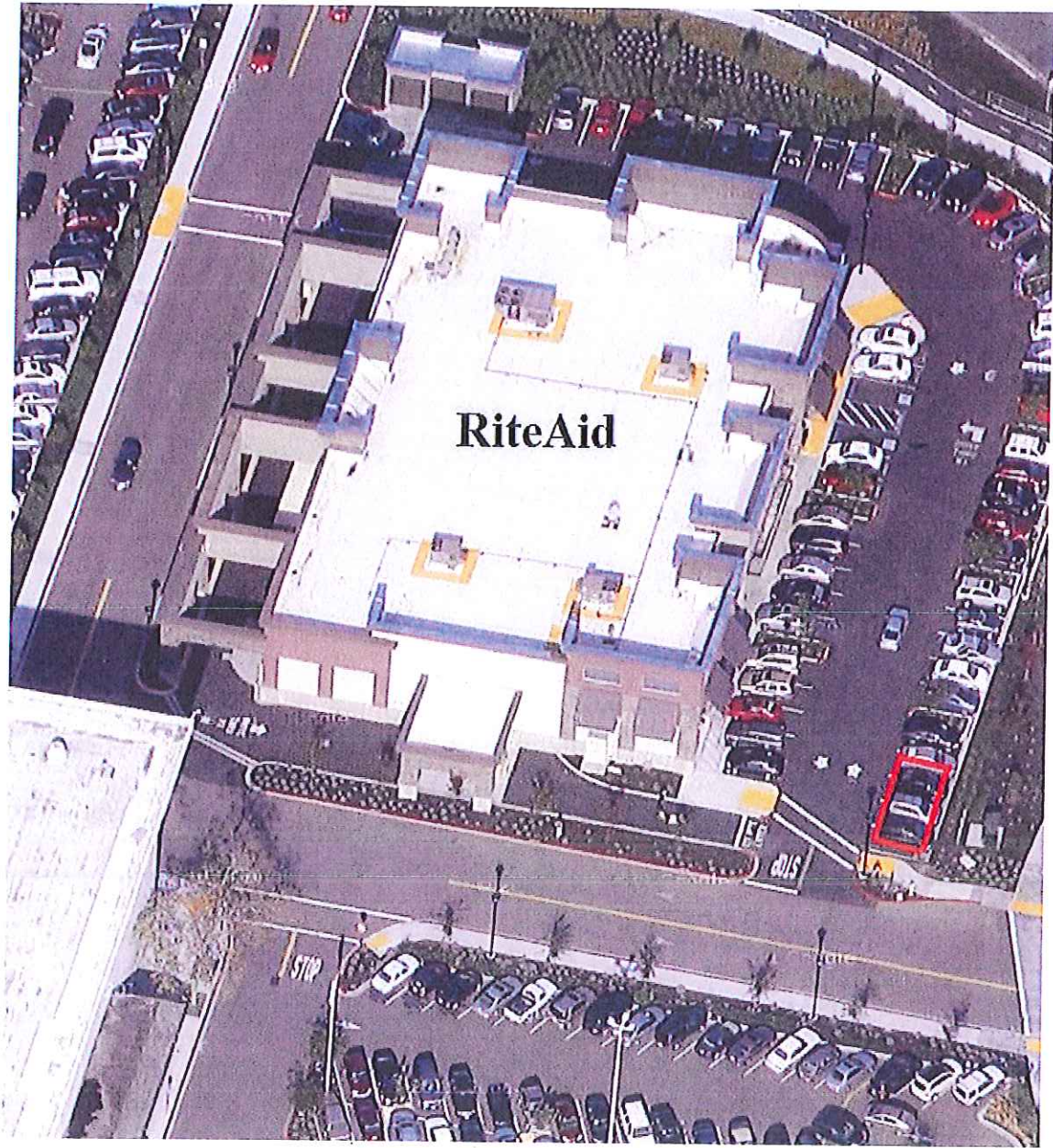
**CITY OF SAN RAFAEL
FIRE DEPARTMENT
REVIEWED FOR CODE COMPLIANCE**

This set of plans and specifications shall be kept on the job site at all times and readily available to City Inspectors upon demand.

Approval of these plans and specifications shall not be held to permit, or to be an approval to violate any provisions of any City or State law, or Nationally recognized Fire Protection Standard.

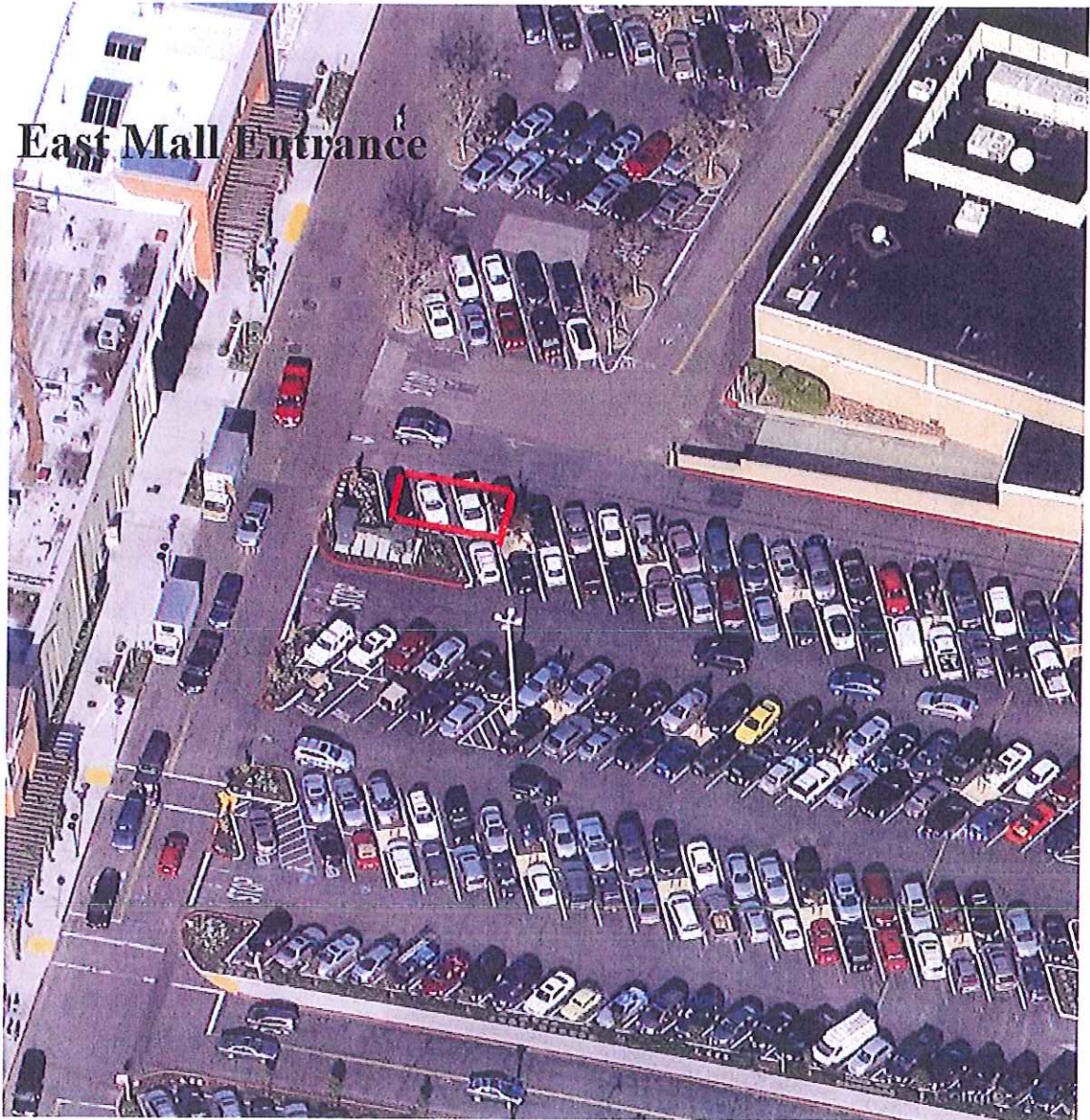
Signature *[Handwritten Signature]* Date 10/20/11

Permit # F110-021

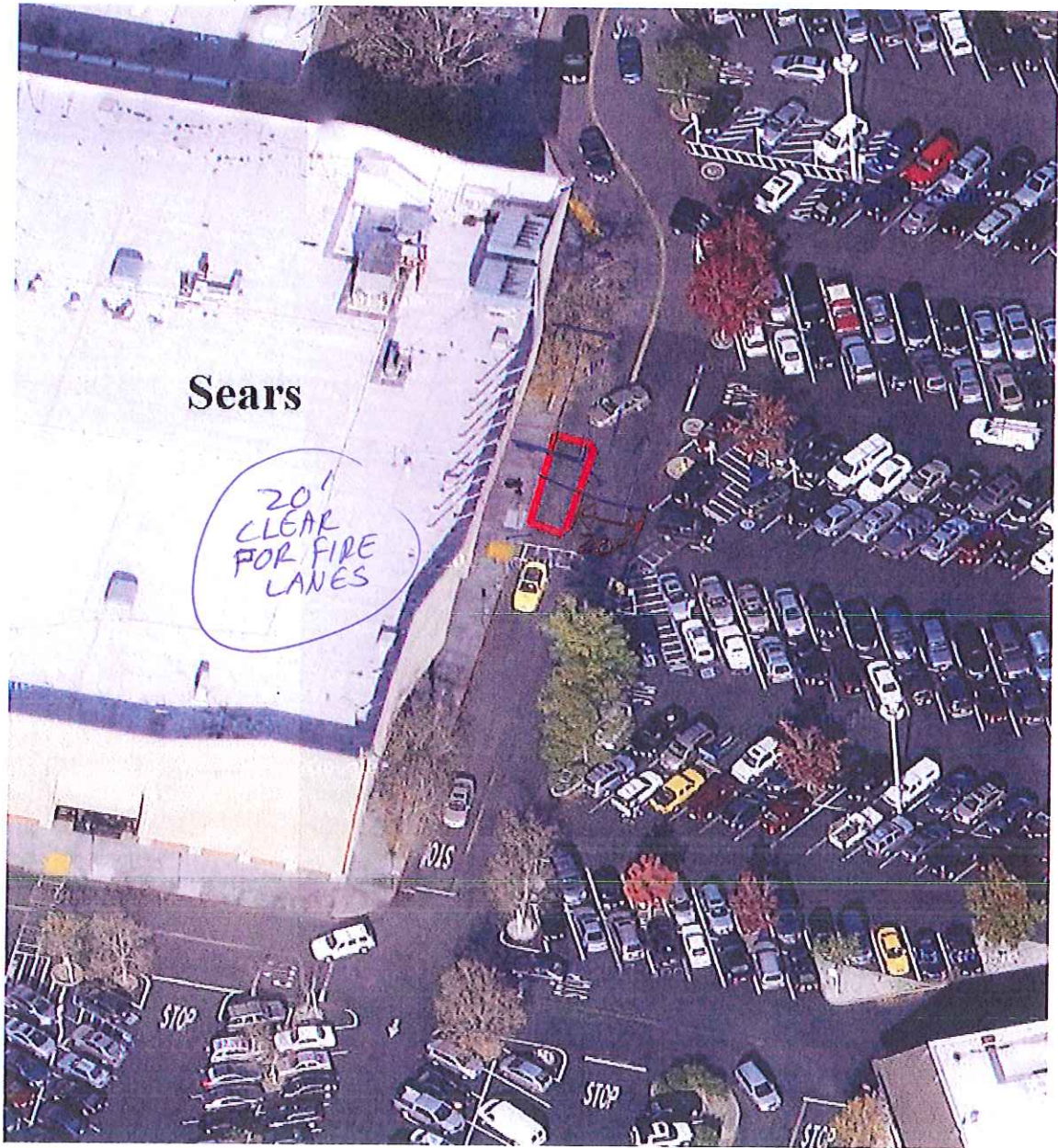


REVIEWED FOR CODE COMPLIANCE
Fire Prevention Bureau
City of San Rafael

East Mall Entrance



REVIEWED FOR CODE COMPLIANCE
Fire Prevention Bureau
City of San Rafael



REVIEWED FOR CODE COMPLIANCE
Fire Prevention Bureau
City of San Rafael



REVIEWED FOR CODE COMPLIANCE
Fire Prevention Bureau
City of San Rafael

PG&E Planned System Upgrade

Start: Tuesday, October 25, 2011

End: Monday, October 31, 2011

Service Interruption: 2:00AM - 6:00A

Service Interruption: 2:00AM - 6:00A

Work: Preventative upgrades to replace two sub-surface switches
Back-up generators will be running the duration of the outage

Mon.

10/24/11

9:00AM Generators (4) arrive at Northgate Mall to for staging

Tues.

10/25/11

2:00AM - 6:00AM Service interruption to connect generators

6:00AM customers will be powered by generators

Crews will wrap up work between 7-8AM

Crews will start work between 6-7PM

Wed.

10/26/11

Crews will wrap up work between 7-8AM

Crews will start work between 6-7PM

Thurs.

10/27/11

Crews will wrap up work between 7-8AM

Crews will start work between 6-7PM

Fri.

10/28/11

Crews will wrap up work between 7-8AM

Crews will start work between 6-7PM

Sat.

10/29/11

Crews will wrap up work between 7-8AM

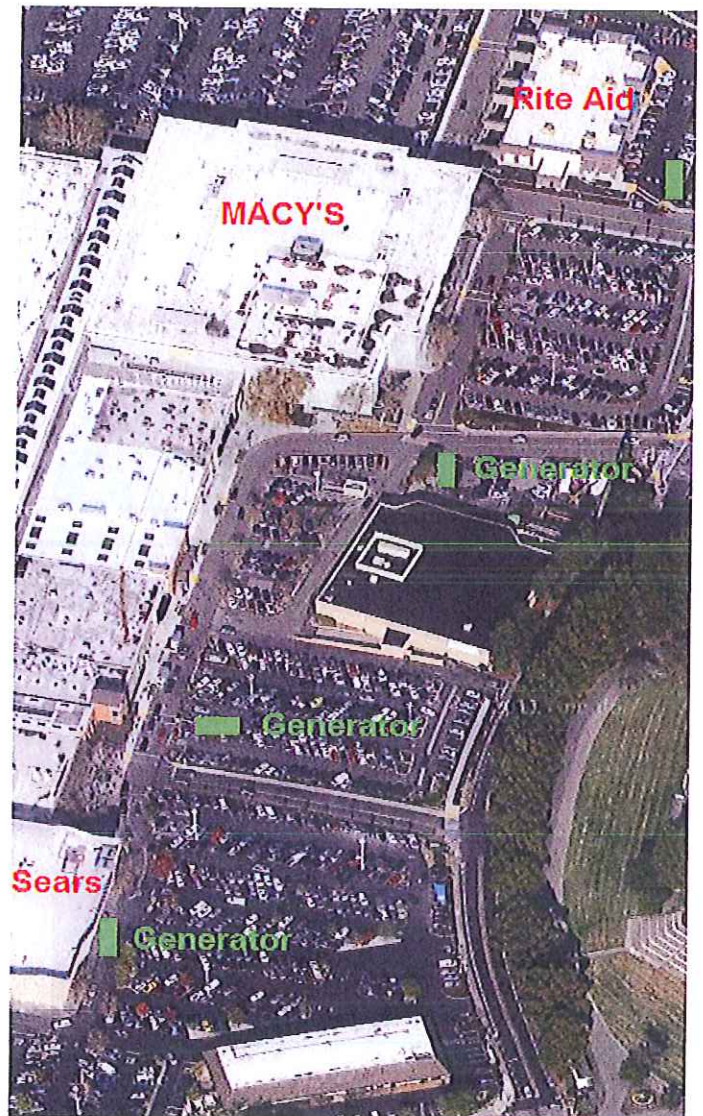
Crews will start work between 6-7PM

Sun.

10/30/11

Crews will wrap up work between 7-8AM

Crews will start work between 6-7PM



Mon.
10/31/11

2:00AM - 6:00AM Service interruption to disconnect generators
6:00AM customers will be connected back to PG&E electric



City of San Rafael

MEP PERMIT

Mechanical Permit #		Electrical Permit # E1806-084	Plumbing Permit #
Address 9000 NORTHGATE DR		APN 175-060-40	Related Building Permit
Description of Work Install backup generator 3 phase 10kw			Issued Date: 6/26/2018
Owner Information MGP XI NORTHGATE LLC 425 CALIFORNIA STREET TENT FL SAN FRANCISCO CA 94104 phone: fax:	Contractor Information phone: fax:	Applicant Information RH 15 Koch Rd #J CORTE MADERA, CA 94925 phone: (415) 209-8694 fax:	
Mechanical Permit Fees	Electrical Permit Fees	Plumbing Permit Fees	
	MINIMUM ELECTRICAL FEE \$125.00 ADDITIONAL HOURLY PLAN CHEC \$62.50		
Mechanical Total: \$0.00	Electrical Total: \$187.50	Plumbing Total: \$0.00	
Notices This permit will expire if work authorized is not commenced within 180 days or if work is suspended or abandoned for more than 180 days. Do not conceal or cover any construction until the work is inspected and the inspection recorded on the jobsite copy of the inspection record. All work performed under this permit must conform to the plans and specifications approved by the City of San Rafael. This permit does not constitute an approval or waiver of any violation of the state law or local ordinance, regulation, or requirement. Encroachment permit is required from San Rafael Public Works prior to any construction on any street or public right of way.	GRAND TOTAL: \$187.50		Applicant Certification
	Permit Issued By:		By my signature below, I certify to each of the following: I am <input type="checkbox"/> a California licensed contractor <input checked="" type="checkbox"/> the property owner* <input type="checkbox"/> authorized to act on the property owner's behalf* I have read this construction permit application and the information I have provided is correct. I agree to comply with all applicable city and county ordinances and state laws relating to building construction. I authorize representatives of this city or county to enter the above-identified property for inspection purposes. Signature: _____ Print Name: RH / ETUGADE Date: 06.26.18 <small>*requires separate verification form and proof of identity</small>

CALIFORNIA LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business & Professions Code, and my license is in full force and effect.

Contractor Name and Address: _____

License Class and # _____ Contractor Signature _____

OWNER-BUILDER'S DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the reason(s) indicated below by the checkmark(s) I have placed next to the applicable item(s) (Section 7031.5, Business & Professions Code: Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business & Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars(\$500).):

() I, as owner of the property, or my employees with wages as their sole compensation, will do () all of or () portions of the work, and the structure is not intended or offered for sale (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale.)

(X) I, as owner of the property, am exclusively contracting with licensed Contractors to construct the project (Section 7044, Business & Professions Code: The Contractors' State License Law does not apply to an owner of property who builds or improves thereon, and who contracts for the projects with a licensed Contractor pursuant to the Contractors' State License Law.)

() I am exempt from licensure under the Contractors' State License Law for the following reason:

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business & Professions Code, is available upon request when this application is submitted or at the following Web site: <http://www.leginfo.ca.gov/calaw.html>.

Property Owner or Authorized Agent signature PH Date 06-26-18

WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS(\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

() I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. Policy No. _____

(X) I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____ Policy No _____ Expiration Date _____

Name of Agent _____ Tel No _____

(X) I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

DECLARATION REGARDING CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued(Section 3097, Civil Code).

Lender's Name and Address _____



Jared Blumenfeld
Secretary for
Environmental Protection



Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806



Gavin Newsom
Governor

August 26, 2021

Ms. Emma Totsubo
Staff Assistant Engineer
Roux
555 12th Street, Suite 250,
Oakland, California 94607

PUBLIC RECORDS ACT REQUEST – PRA # 2-082021-03

Dear Ms. Totsubo:

On August 20, 2021, the Department of Toxic Substances Control (DTSC) received your Public Records Act request for records pertaining to the following property:

**1500, 5010, & 5800 Northgate Drive
San Rafael, California 94903-3671**

The search on the above address, conducted in DTSC's "Electronic Devices Online System - For Notification and Reporting Requirements," resulted in the enclosed information on **C&T Recycling & Attan Recycling Corporation**

that are associated with the property. Some additional information associated with the property is pending review and will be provided once the review is completed.

Should you have any questions regarding this matter, please feel free to contact me via electronicwaste@dtsc.ca.gov.

Sincerely,

Laura Helfrich
Associate Governmental Program Analyst
Program Implementation Unit
Permitting Division
Hazardous Waste Management Program

Enclosure



Facility Profile

Business Name: C&T Recycling

Facility Name: Northgate mall

Facility Type: Handler/Collection **Status:** C

Date Notified: 09/05/2012

Last Date Revised: 09/05/2012

Facility Physical Address:

1500 Northgate Dr

San Rafael, CA 94903-3671 **County:** Merced

Temporary Collection Event Location: No

Export Notifications: None

Business Contact: Charles Landmesser charlie@ctrecycling.net

Business Phone: (510)590-7510

Business Mailing Address:

2303 Farley St.

Castro Valley, CA 94546

Facility Description:

- Accepts materials from Businesses, Collector, Household, Government, Other approved sources
- Expected to handle Bare CRT, CRT Glass, CRT Device, LCD Monitor, LCD Laptop, LCD TV, DVD, Plasma TV, Microwave, VCR, Computer, Printer, Cellular Phone, Telephone, Radio, Small Electronics, Large Electronics, Others: Other approved material

**2015 Annual Report, Date Submitted: 05/10/2016,
Annual Report ID: 60520**

No Annual Report submitted during this reporting period.

**2014 Annual Report, Date Submitted: 05/10/2016,
Annual Report ID: 60521**

No Annual Report submitted during this reporting period.



Facility Profile

Business Name: Attan Recycling Corporation

Facility Name: KOHLS

Facility Type: Handler/Collection **Status:** A

Date Notified: 06/13/2014

Last Date Revised: 06/13/2014

Facility Physical Address:

5010 NORTHGATE DR

SAN RAFAEL, CA 94903 **County:** Marin

Temporary Collection Event Location: No

Export Notifications: None

Business Contact: Chihshan Chen attanrecycling@gmail.com

Business Website: www.attanrecyclingcorp.com

Business Phone: (909)591-8408

Business Mailing Address:

13941 Norton Ave Ste D

Chino, CA 91710-5455

Facility Description:

- Accepts materials from Businesses, Collector, Household, Government
- Expected to handle CRT Glass, CRT Device, LCD Monitor, LCD Laptop, LCD TV, DVD, Plasma TV, Microwave, VCR, Computer, Printer, Cellular Phone, Telephone, Radio, Small Electronics, Large Electronics

2019 Annual Report, Date Submitted: 08/21/2019,

Annual Report ID: 93720

No Annual Report submitted during this reporting period.

2018 Annual Report, Date Submitted: 08/21/2019,

Annual Report ID: 93719

No Annual Report submitted during this reporting period.



Facility Profile

Business Name: Attan Recycling Corporation

Facility Name: Northgate Mall

Facility Type: Handler/Collection **Status:** A

Date Notified: 12/12/2014

Last Date Revised: 12/12/2014

Facility Physical Address:

5800 Northgate Dr

San Rafael, CA 94903-3691 **County:** Marin

Temporary Collection Event Location: No

Export Notifications: None

Business Contact: [Chihshan Chen](mailto:attanrecycling@gmail.com) attanrecycling@gmail.com

Business Website: www.attanrecyclingcorp.com

Business Phone: (909)591-8408

Business Mailing Address:

13941 Norton Ave Ste D

Chino, CA 91710-5455

Facility Description:

- Accepts materials from Businesses, Collector, Household, Government
- Expected to handle CRT Glass, CRT Device, LCD Monitor, LCD Laptop, LCD TV, DVD, Plasma TV, Microwave, VCR, Computer, Printer, Cellular Phone, Telephone, Radio, Small Electronics, Large Electronics

2019 Annual Report, Date Submitted: 08/21/2019, Annual Report ID: 93812

No Annual Report submitted during this reporting period.

2018 Annual Report, Date Submitted: 08/21/2019, Annual Report ID: 93811

No Annual Report submitted during this reporting period.

2017 Annual Report, Date Submitted: 01/26/2018, Annual Report ID: 77068

No Annual Report submitted during this reporting period.



Facility Profile

Business Name: C&T Recycling

Facility Name: C&T Recycling

Facility Type: Handler/Collection **Status:** C

Date Notified: 04/26/210

Last Date Revised: 04/26/2010

Facility Physical Address:

5800 Northgate Dr

San Rafael, CA 94903-3691 **County:** Marin

Temporary Collection Event Location: No

Export Notifications: None

Business Contact: [Charles Landmesser](mailto:charlie@ctrecycling.net) charlie@ctrecycling.net

Business Phone: (510)590-7510

Business Mailing Address:

2303 Farley St.

Castro Valley, CA 94546

Facility Description:

- Accepts materials from Businesses, Household, Government, other approved sources
- Expected to handle CRT Device, LCD Monitor, LCD Laptop, LCD TV, DVD, Plasma TV, Microwave, VCR, Computer, Printer, Cellular Phone, Telephone, Radio, Small Electronics, Large Electronics, Others: speakers,routers, mother boards,video cameras

2015 Annual Report, Date Submitted: 05/10/2016, Annual Report ID: 60526

No Annual Report submitted during this reporting period.

2014 Annual Report, Date Submitted: 05/10/2016, Annual Report ID: 60527

No Annual Report submitted during this reporting period.

2013 Annual Report, Date Submitted: 05/10/2016, Annual Report ID: 60528

No Annual Report submitted during this reporting period.



Facility Profile

Business Name: Goodwill of San Francisco

Facility Name: Goodwill of San Francisco

Facility Type: Handler/Collection **Status:** C

Date Notified: 07/17/2008

Last Date Revised: 01/23/2017

Facility Physical Address:

5800 Northgate Dr

San Rafael, CA 94903-3691 **County:** Marin

Temporary Collection Event Location: No

Export Notifications: None

Business Contact: [Tony Chang](mailto:qchang@sfgoodwill.org) qchang@sfgoodwill.org

Business Website: www.sfgoodwill.org

Business Phone: (415)889-0815

Business Mailing Address:

750 Post Street

San Francisco, CA 94109

EPA ID Number: [CUW000000029](#)

Facility Description:

- Accepts materials from Businesses, Government, Public
- Expected to handle CRT Device, Others: UWEDs

2016 Annual Report, Date Submitted: 08/23/2016, Annual Report ID: 61556

No Annual Report submitted during this reporting period.

2015 Annual Report, Date Submitted: 08/23/2016, Annual Report ID: 61555

No Annual Report submitted during this reporting period.

2014 Annual Report, Date Submitted: 08/28/2015, Annual Report ID: 47687

No Annual Report submitted during this reporting period.

Handled	0	30,951	0	27,078	40	0	0	0	0				
Shipped-Domestic Phone: 4155752101, Ext. 2206													
Goodwill Industries of San Francisco, 1500 Mission St, San Francisco, CA													
D34	0	30,951	0	27,078	40	0	0	0	0	0	0	0	0

2010 Annual Report, Date Submitted: 01/27/2011, Annual Report ID: 9696

- The facility generated more than 11,000 pounds of electronic devices, CRTs, and CRT glasses.
- Actual handled CRT Device, LCD Monitor, LCD Laptop, LCD TV, DVD, Plasma TV, Microwave, VCR, Computer, Printer, Cellular Phone, Telephone, Radio, Small Electronics, Others:

Type	Electronic Devices		CRT Devices			CRTs			CRT Glass		Universal Waste	Scrap Metal Printed Circuit Board	Yokes
	Count	Pound	Count	Pound	Conv	Count	Pound	Conv	Pound Received	Pound Residuals			
Handled	0	11,527	0	10,400	40	0	0	0	0	0			
Shipped-Domestic Phone: 4155752101, Ext. 2206													
Goodwill Industries of San Francisco, 1500 Mission St, San Francisco, CA													
D34	0	11,527	0	10,400	40	0	0	0	0	0	0	0	0

2009 Annual Report, Date Submitted: 02/19/2010, Annual Report ID: 6105

- The facility generated more than 11,000 pounds of electronic devices, CRTs, and CRT glasses.
- Actual handled CRT Device, LCD Monitor, LCD Laptop, LCD TV, DVD, Plasma TV, Microwave, VCR, Computer, Printer, Cellular Phone, Telephone, Radio, Small Electronics, Large Electronics

Type	Electronic Devices		CRT Devices			CRTs			CRT Glass		Universal Waste	Scrap Metal Printed Circuit Board	Yokes
	Count	Pound	Count	Pound	Conv	Count	Pound	Conv	Pound Received	Pound Residuals			
Handled	0	31,899	0	29,551	55	0	0	0	0				
Shipped-Domestic Phone: 4155752101, Ext. 2206													
Goodwill Industries of San Francisco, 1500 Mission St, San Francisco, CA													
D34	0	31,899	0	29,551	55	0	0	0	0	0	0	0	0

2008 Annual Report, Date Submitted: 01/30/2009, Annual Report ID: 430

- Actual handled CRT Device, Others: UWED



Jared Blumenfeld
Secretary for
Environmental Protection



Department of Toxic Substances Control

Meredith Williams, Ph.D.
Director
700 Heinz Avenue
Berkeley, California 94710-2721



Gavin Newsom
Governor

August 27, 2021

Emma Totsubo
Roux Inc.
Etotsubo@rouxinc.com

Public Records Request Number: 2-082021-03

Location(s): Northgate Mall, San Rafael, CA; 1000 Northgate Dr., 1500 Northgate Dr, 5000 Northgate Dr, 5010 Northgate Dr, 5800 Northgate Dr, 6000 Northgate Dr, 7000 Northgate Dr, & 9000 Northgate Dr. San Rafael, CA

Dear Ms. Totsubo,

We have received your Public Records Act Request at the Department of Toxic Substances Control (DTSC). Upon thorough review of our files, we found no records pertaining to the site(s) referenced above.

DTSC's E-Waste unit may also have records that pertain to this PRA request. ("E-Waste" pertains to any unwanted electronic device or Cathode Ray Tube {CRT}). You can contact them by email at electronicwaste@dtsc.ca.gov if you are interested in any pertinent information related to this site.

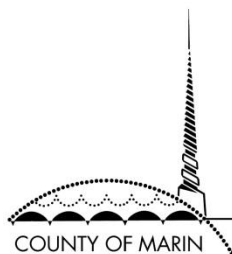
For information regarding public reports on hazardous waste shipments of generators, transporters, and TSDFs, you can access our Hazardous Waste Tracking System (HWTS) online at: <https://hwts.dtsc.ca.gov/>. Select the "Reports" tab for search options. If you are interested in retrieving detailed reports, please contact the HWTS unit via e-mail: hwtsreports@dtsc.ca.gov or phone: 1-800-618-6942. Customized reports may require a fee. For copies of manifests, please send an e-mail to mcr@dtsc.ca.gov.

In addition, the DTSC provides access to public records online via Envirostor; another data management system that tracks our efforts in cleanup, permitting, enforcement, and investigation of known/suspected hazardous waste sites and facilities. The available data is updated in real-time. You can access Envirostor online at www.envirostor.dtsc.ca.gov. Navigate the website easily by clicking the "How to Use Envirostor" tab, then selecting the option "Take a Tour".

If you have any questions or would like further information regarding your request, please contact me via phone: [510-540-3800](tel:510-540-3800) or e-mail: Berkeleyfileroom@dtsc.ca.gov.

Sincerely,

Christina de la Vega
Regional Records Coordinator



Brian E. Washington
COUNTY COUNSEL

August 30, 2021

Renee Giacomini Brewer
ASSISTANT COUNTY COUNSEL

VIA NEXTREQUEST ONLY

Jenna J. Brady
CHIEF DEPUTY COUNTY COUNSEL

Emma Totsubo
Roux Associates
555 12th Street, Suite 250
Oakland, CA 94607
etotsubo@rouxinc.com

Patrick M. K. Richardson
Stephen R. Raab
Steven M. Perl
Brian C. Case
Kerry L. Gerchow
Tarisha K. Bal
Deidre K. Smith
Brandon W. Halter
Sarah B. Anker
Jacy C. Dardine
Kate K. Stanford

Re: Public Records Act Request dated August 20, 2021
File No. 21-477

Dear Ms. Totsubo,

My office represents the County of Marin. We are in receipt of your Public Records Act (PRA) request, dated August 20, 2021. Below is your request with a corresponding response.

DEPUTIES

Colleen McGrath
ADMINISTRATIVE SERVICES
OFFICER

Request: Roux Associates will be conducting a Phase I ESA for Northgate Mall and would like to request public records for the following addresses in San Rafael:

1000 Northgate Dr
1500 Northgate Dr
5000 Northgate Dr
5010 Northgate Dr
5800 Northgate Dr
6000 Northgate Dr
7000 Northgate Dr
9000 Northgate Dr

We are interested in files available for the entire history of the address - particularly related to land use, hazardous waste, and environmental health (e.g. environmental site assessments, hazardous waste violations, documented releases, permits etc.).

Marin County Civic Center
3501 Civic Center Drive
Suite 275
San Rafael, CA 94903
415 473 6117 T
415 473 3796 F
415 473 2226 TTY
www.marincounty.org/cl

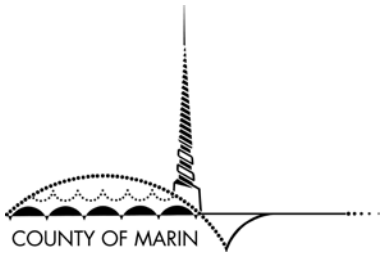
Response to Request: The County of Marin has no responsive records to your request. However, Marin County Certified Unified Programs Agency (CUPA) records can be accessed by completing the following form and submitting directly to CUPA. https://www.marincounty.org/-/media/files/departments/pw/forms/cupa_file_review_request.pdf?la=en.

If you need any further assistance, please do not hesitate to contact me directly.

BRIAN E. WASHINGTON
COUNTY COUNSEL



Jenna J. Brady
Chief Deputy County Counsel



Certified Unified Program Agency

County of Marin – Waste Management Division

P.O. Box 4186, San Rafael, CA 94913-4186
1600 Los Gamos Drive, Suite 210, San Rafael, CA 94903
PHONE: (415) 473-6647 FAX: (415) 473-2391
www.marincounty.org/depts/pw/divisions/waste-management

PLEASE NOTE: Department of Public Works, Waste Management Division’s jurisdiction now encompasses all of Marin County CUPA business sites. Our office maintains files for current and closed sites. Please contact Melinda Wong at the California Regional Water Quality Control Board at (510) 622-2430 for closed files from City of San Rafael.

Please fax (415-473-2391) or e-mail (CUPA@marincounty.org) this request 48 hours in advance to confirm an appointment time between the hours of 8:30 am - 11:30 am and 1:30 pm - 4:00 pm Monday through Friday.

Photocopier is available for use @ \$0.15 per copy. Payment by check or exact cash at the time of the appointment is required. Thank you in advance for not wearing perfume/cologne during your file review.

Please complete the following information for your file review(s)

Company/Agency: Roux Associates

Name/phone number/e-mail: Emma Totsubo / 310-405-5368 / etotsubo@rouxinc.com

Date & time to schedule file review: Electronic copies preferred

CUPA files

Business name and address of CUPA file(s) requested:	Open/Closed
1. <u>Northgate Mall, 5800 Northgate Dr</u>	<u>/</u>
2. <u>1000 Northgate Dr</u>	<u>/</u>
3. <u>1500 Northgate Dr</u>	<u>/</u>
4. <u>5000/5010 Northgate Dr</u>	<u>/</u>
5. <u>6000 Northgate Dr</u>	<u>/</u>
6. <u>7000 Northgate Dr</u>	<u>/</u>
7. <u>9000 Northgate Dr</u>	<u>/</u>

Contact:
Administrative Assistant
Phone (415) 473-6647 - Fax (415) 473-2391

FOR OFFICE USE ONLY:

Date Received _____ Date E-mailed to County Counsel _____

Emma Totsubo

From: Wong, Melinda@Waterboards <Melinda.Wong@waterboards.ca.gov>
Sent: Monday, August 30, 2021 11:21 AM
To: Emma Totsubo
Subject: RE: PRA 21-0142 Records Request

This message originated outside your organization. Please use caution!

Hello Emma,

The San Francisco Bay Regional Water Board received your August 20, 2021 file review request, which seeks records related to the addresses you described below. Based on a thorough search, it appears in Geotracker a non-case informational for the address at 9000 Northgate Drive, San Rafael, the site documents are available to access online.

It appears in SMARTS database a terminated construction NOI permit coverage, WDID number 21C351950 for the address at 5800 Northgate Drive, San Rafael, a document is available at this link:

<https://smarts.waterboards.ca.gov/smarts/faces/PublicDataAccess/PublicNoiSearchResults.xhtml>

I was unable to find any records information for the other addresses you requested.

I would recommend contacting the local agency, Marin County Health Department, LOP for any further information they may have.

Thank you,

Melinda Wong
Management Services Division
San Francisco Bay Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: (510) 622-2430
Fax: (510) 622-2095 direct line for Public Records Act request
Email: mwong@waterboards.ca.gov

From: Emma Totsubo <etotsubo@rouxinc.com>
Sent: Friday, August 20, 2021 1:48 PM
To: Wong, Melinda@Waterboards <Melinda.Wong@waterboards.ca.gov>
Subject: Public Records Request

EXTERNAL:

Hello Melinda,

Roux Associates will be conducting a Phase I ESA for Northgate Mall in San Rafael, CA and would like to request public records for the following addresses:

- 1000 Northgate Dr
- 1500 Northgate Dr
- 5000 Northgate Dr
- 5010 Northgate Dr

- 5800 Northgate Dr
- 6000 Northgate Dr
- 7000 Northgate Dr
- 9000 Northgate Dr

We are interested in files available for the entire history of the address - particularly related to land use, hazardous waste, and environmental health (e.g. environmental site assessments, hazardous waste violations, documented releases, permits etc.).

Please reach out if you have any questions.

Thank you,
Emma

Emma Totsubo, E.I.T. | Staff Assistant Engineer

Pronouns: She/her/hers

555 12th Street, Suite 250, Oakland, California 94607

Main: 415.967.6000 | Direct: 415.967.6026 | Mobile: 310.405.5368

Email: etotsubo@rouxinc.com | Website: www.rouxinc.com



California | Illinois | Massachusetts | New Jersey | New York | Texas | Virginia



🌱 Please consider the environment before printing this email.

NOTICE: This electronic communication, including any authorized attachments, contains information that may be legally privileged, protected, confidential and/or exempt from disclosure or certain types of use under applicable law. This information is for the sole use of the intended recipient(s). If you are not the intended recipient(s) or the employee or agent responsible for delivery of this message to the intended recipient(s), you are hereby notified that any review, use, disclosure, copying, distribution or the taking of any action in reliance on the contents of this e-mail or any attachments is strictly prohibited. You are further advised that review by an individual other than the intended recipient(s) shall not constitute a waiver of any attorney-client privilege which may apply to this communication. If you have received this communication in error, please notify the sender immediately by return e-mail, permanently delete this e-mail and any attachments from all computers on which they may be stored and destroy any print-outs of this email and any attachments.



State Water Resources Control Board
NOTICE OF INTENT
 GENERAL PERMIT TO DISCHARGE STORM WATER
 ASSOCIATED WITH CONSTRUCTION ACTIVITY
 (WQ ORDER No. 2009-0009-DWQ)



WDID: 2 21C351950 Risk Level:

Property Owner Information Type: Private Business

Name: Macerich Contact Name: Chuck Davis
 Address: 401 Wilshire Blvd Ste 700 Title: _____
 Address 2: _____ Phone Number: 310-394-6000
 City/State/Zip: Santa Monica CA 90401 Email Address: _____

Contractor/Developer Information

Name: Macerich Contact Name: Chuck Davis
 Address: 401 Wilshire Blvd Ste 700 Title: _____
 Address 2: _____ Phone Number: 310-394-6000
 City/State/Zip: Santa Monica CA 90401 Email Address: _____

Construction Site Information

Contact Name: Anthony Edwards Title: _____
 Site Name: Renovation of the Mall at Northgate
 Address: 5800 Northgate Mall
 City/State/Zip: San Rafael CA 94903 Site Phone #: 415-479-5956
 County: Marin Email Address: _____
 Latitude: _____ Longitude: _____ Construction Start: July 01, 2008
 Total Size of Construction Area: 44.75 Acres Complete Grading: _____
 Total Area to be Disturbed: 20 Acres Final Stabilization: July 01, 2009

Risk Values
 R: _____ K: _____ LS: _____ Beneficial Uses/303(d): _____
 Type of Construction: _____ *Commercial*Reconstruction
 Receiving Water: San Pablo Bay
 Qualified SWPPP Developer: _____

RWQCB Jurisdiction: Region 2 - San Francisco Bay

Phone: 510-622-2300 Email: r2stormwater@waterboards.ca.gov

Certification Certification #:

Name: _____ Date: _____
 Title: _____

Site Photographs



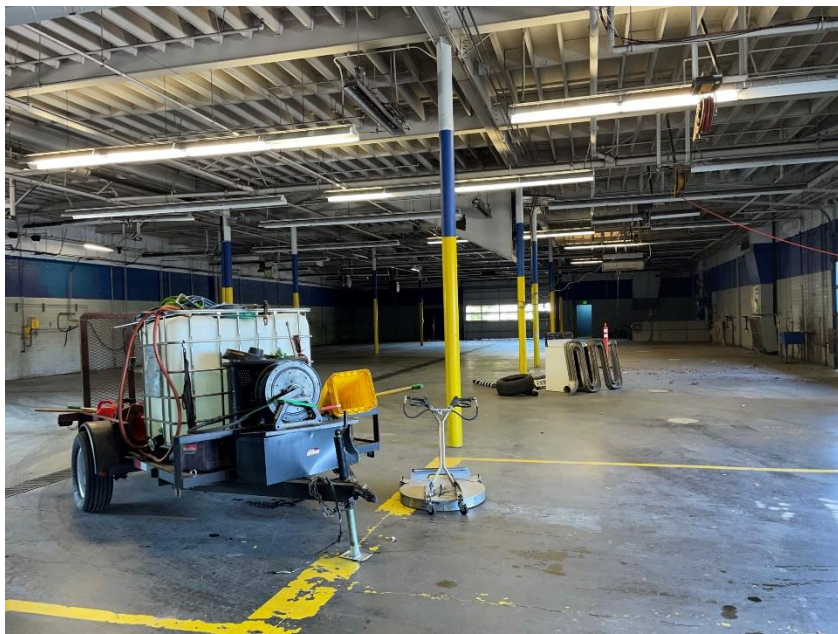
Photograph 1. Former Sears Auto Center building (northside).



Photograph 2. Clarifier or oil/water separator at north side of auto center building.



Photograph 3. Front room of former Sear Auto center facility.



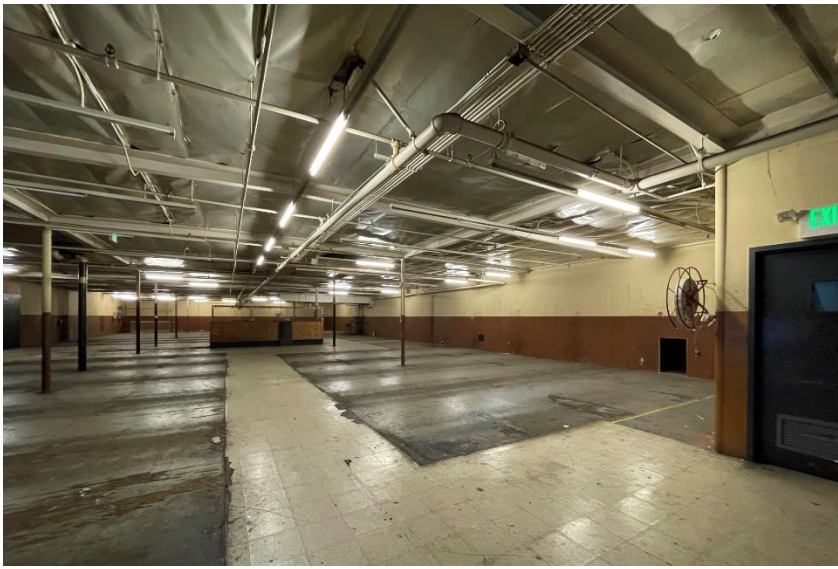
Photograph 4. Miscellaneous items left in main auto shop floor space and open chute protruding from the ceiling.



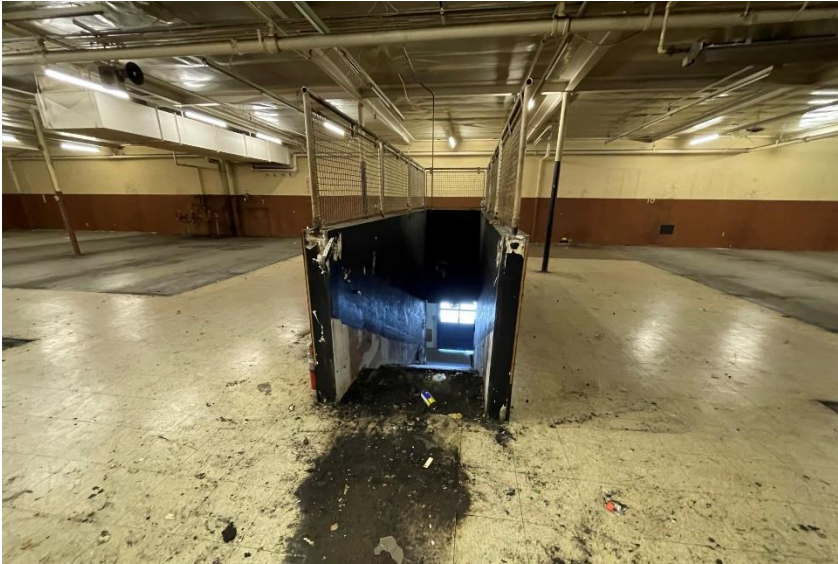
Photograph 5. Main auto repair area with trench drain and locations of former hydraulic lifts.



Photograph 6. Sunken work area at northwest corner of auto shop floor.



Photograph 7. Second floor storage space of the former auto shop.



Photograph 8. View of chute/ramp towards auto shop garage door.



Photograph 9. Former Sears Auto Center second floor elevator equipment room with minor staining on floor.



Photograph 10. Interior of former appliance service building.



Photograph 11. Former appliance service Building outside courtyard storage.



Photograph 12. (Left)
Tunnel with conveyor belt leading down to former Sears basement loading dock area.



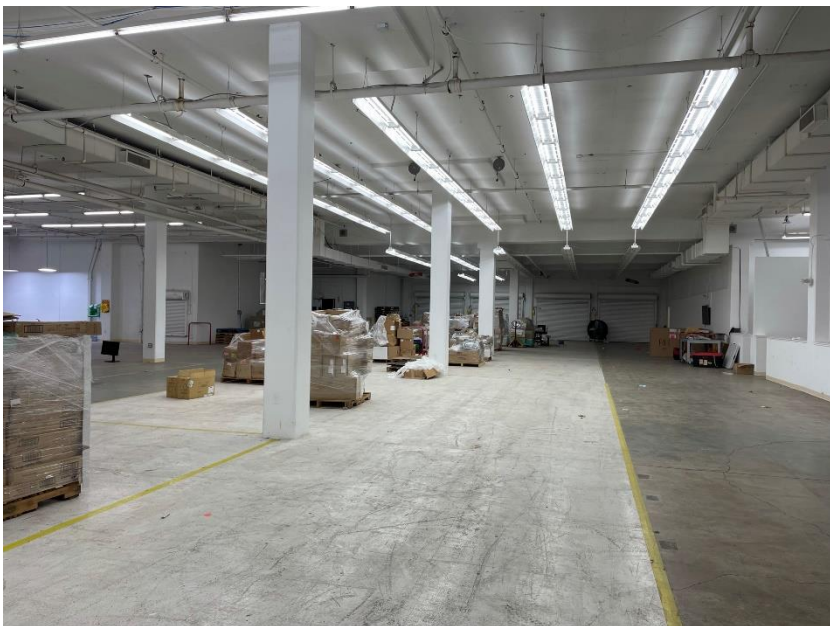
Photograph 13. (Right)
Transformer and water heater inside former appliance service building.



Photograph 14. RH Outlet/former Sears loading dock with trash compactor and storm drain catch basin.



Photograph 15. RH Outlet showroom.



Photograph 16. RH Outlet/former Sears basement, facing loading dock doors.



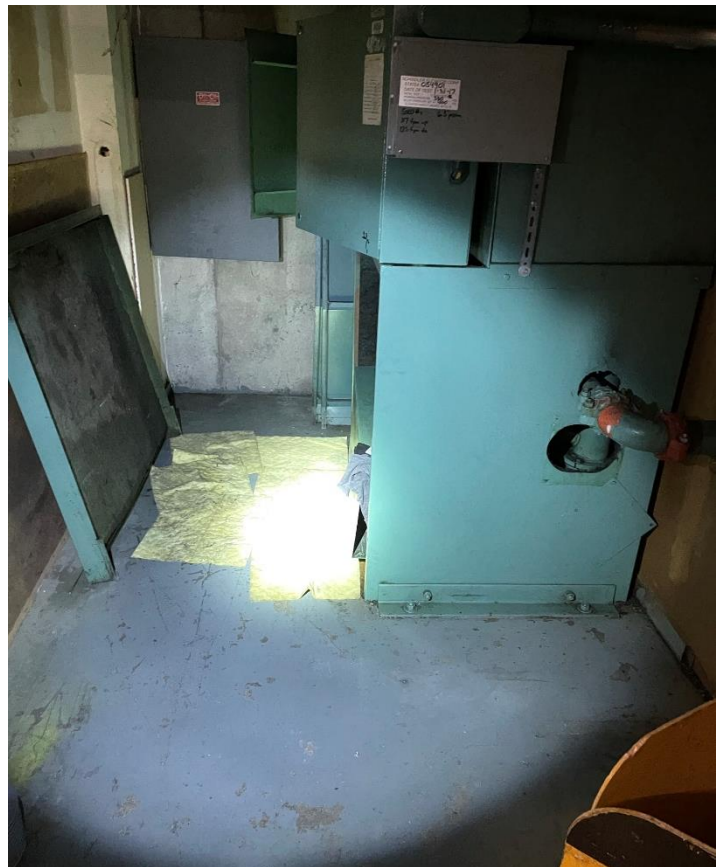
Photograph 17. North freight elevator, former Sears basement.



Photograph 18. Passenger elevator equipment room, former Sears basement.



Photograph 19. Empty drum, former Sears basement.



Photograph 20. South freight elevator equipment room, former Sears basement.



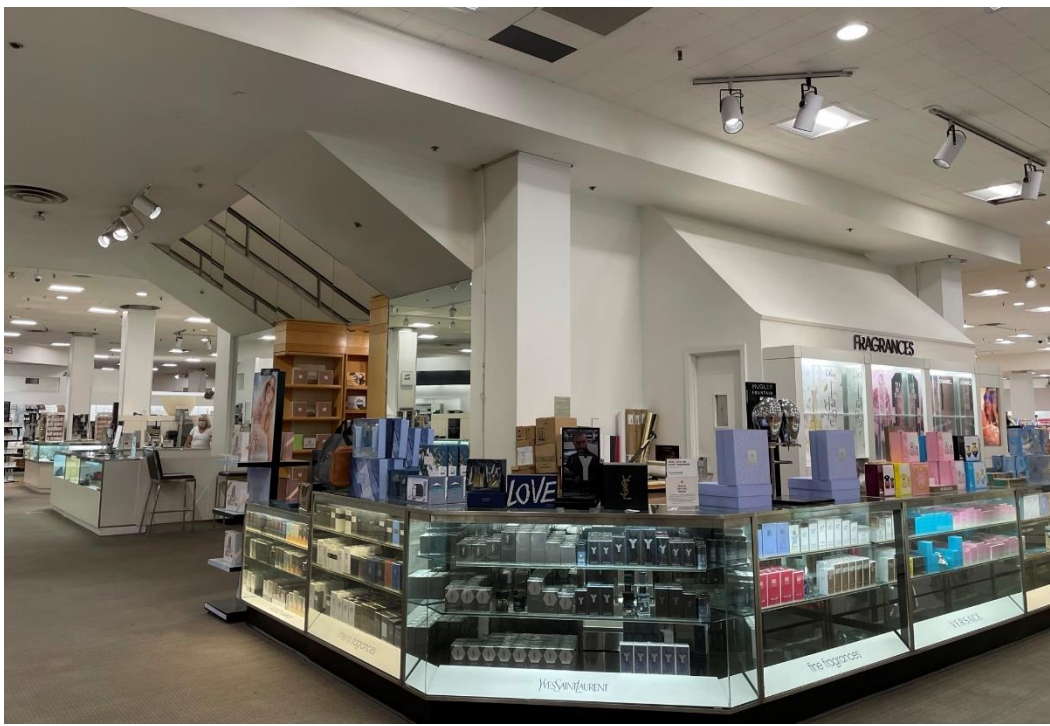
Photograph 21. Drums and sewer, former Sears basement.



Photograph 22. Transformer in former Sears basement.



Photograph 23. Former Sears second floor retail space.



Photograph 24. Macy's department store.



Photograph 25. Macy's backup generator and diesel fuel storage on third floor.



Photograph 26. Macy's hazardous waste storage in loading dock area.



Photograph 27. Macy's transformer in outside wooden in closure.



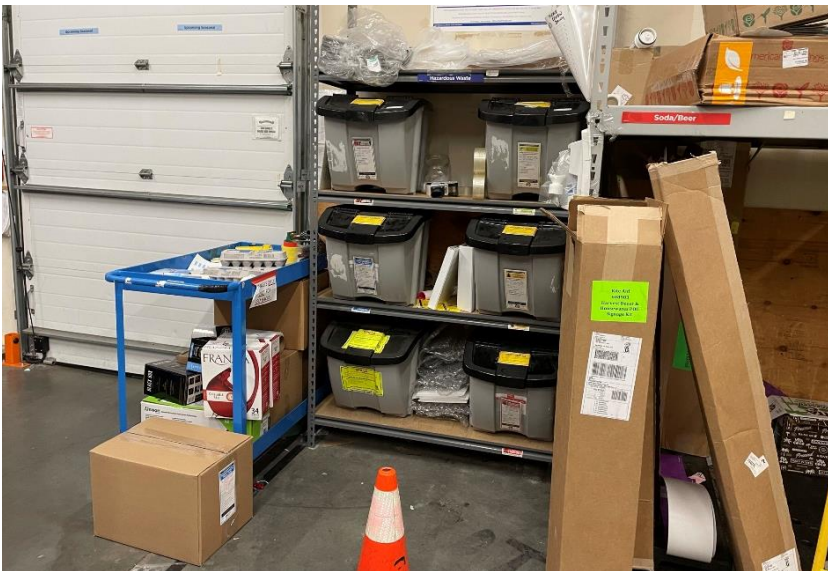
Photograph 28. Homegoods department store



Photograph 29. Homegoods hazardous waste storage area.



Photograph 30. Rite Aid drug store pharmacy counter.



Photograph 31. Rite Aid hazardous materials storage area.



Photograph 32. Kohl's hazardous materials storage.



Photograph 33. Kohl's transformer and backup generator enclosure.



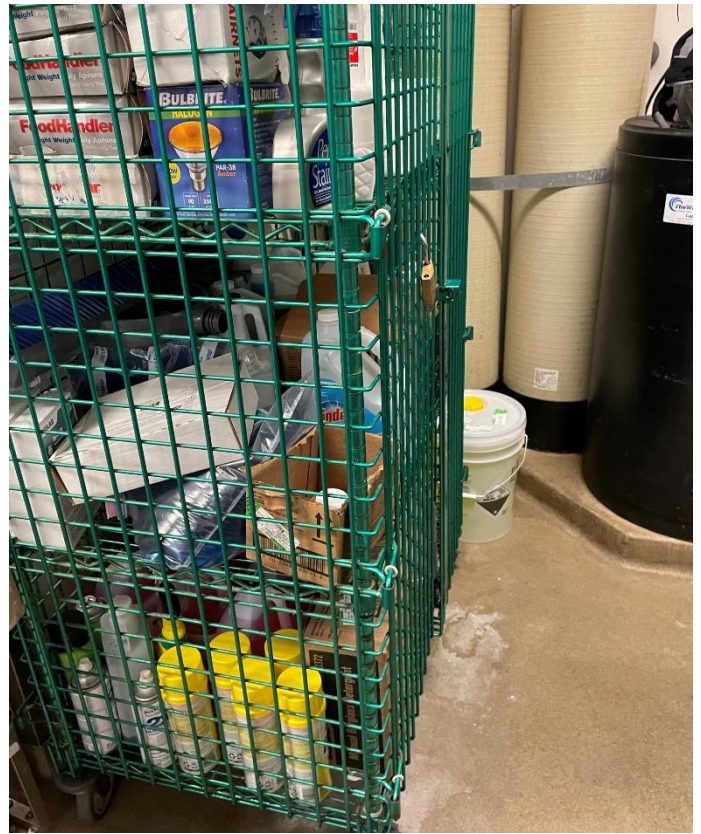
Photograph 34. Kohl's loading dock and trash compactor.



Photograph 35. Vacant unit at 5000 Northgate Drive (former European Wax Center).



Photograph 36. Grease interceptor manholes outside Panda Express.



Photograph 37. Hazardous material storage at BJ's restaurant.



Photograph 38. Eyeglasses lab in LensCrafters.



Photograph 39. Chemical storage at Century Theatres.



Photograph 40. Bike path at northeastern corner and neighboring properties.



Photograph 41. Hydrodynamic separator in parking lot south of Homegoods.



Photograph 42. Backup diesel generator for the Mall at Northgate, located in the parking lot south of Macy's.



Photograph 43. Grease storage enclosure under the parking structure.



Photograph 44. Paints stored in the maintenance staff's area in the parking structure.



Photograph 45. Example storm drain catch basin in the parking lot.

User-Provided Documents

VIA CERTIFIED MAIL
P 995 749 312

"We Make Good
Things Happen"

November 25, 1992

Vice President
SEARS, ROEBUCK AND CO.
2650 E. Olympic Blvd.
Los Angeles, CA 90054

Re: Sears
NORTHGATE MALL
San Rafael, California

Dear Sir/Madam:

It has come to our attention that Sears was the owner of two underground gasoline storage tanks and one underground waste oil tank on your premises and that those tanks had the potential for leaking toxic substances into the environment. It is our understanding that all of those tanks have been removed by Sears.

We hereby request that you provide the following information to the undersigned as soon as possible:


- 1) Results of all soil and groundwater tests already complete, if any.
- 2) What is the current status of the tanks? (It is our understanding that Sears removed two 12,000 gallon gasoline storage tanks and a waste oil tank). Please confirm that all tanks have been removed.

Since Sears has the responsibility to assure compliance with applicable environmental laws with regard to these tanks, including any removal or cleanup required, and since there is significant potential liability resulting from environmental damage, your response to the above referenced questions is requested as soon as possible.

Your cooperation is appreciated. If you have any questions, please feel free to contact me.

Sincerely,

THE MACERICH COMPANY


Robert D. Aptaker
Environmental Manager
Assistant Vice President

RDA/mo

cc: Patrick Prinster
Henry Lichtman

Sears, Roebuck and Co.
925 S. Homan Ave.
Chicago, ILL 60607

The MaceRich Company

P.O. BOX 3879, VENTURA, CA 93006, (805) 650-0589



H.E. Schmalz
Director of Environmental Matters
Dept. 824C A 72A
Sears Merchandise Group
3333 Beverly Road
Hoffman Estates, Illinois 60179
708-286-8071

RECEIVED
VENTURA
AUG 23 1993

August 19, 1993

Mr. Robert D. Aptaker
Environmental Manager
The MaceRich Company
P.O. Box 3879
Ventura, CA 93006

*** VIA FAX ***

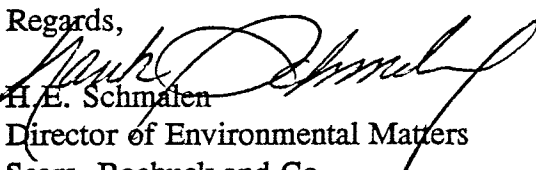
subj: Sears #1528 San Rafael, CA - UST Removal

Dear Bob,

In as much as Sears is currently in negotiation with MaceRich on several projects in California (i.e. Oxnard and Reno) and in that same spirit of cooperation, the following information about the Underground Storage Tanks that were removed in 1986 at our store in San Rafael is attached. You will note that the "Clearance" report from the Department of Health and Human Services (March 2, 1987) shows the samples at the site at a safe level or free from any residual product formerly stored. I know that this comes as good news and should help expedite your endeavors.

If I can answer any further questions Bob, don't hesitate to call.

Regards,


H.E. Schmalz
Director of Environmental Matters
Sears, Roebuck and Co.

att (3)

cc: Szymczak
Krantz

DEPARTMENT OF HEALTH AND HUMAN SERVICES

R-8519 #157

Environmental Health Services

COUNTY OF MARIN

Hall of Justice • Civic Center • San Rafael, CA 94903

(415) 499-6907

DATE: March 2, 1987

TO:

Attn: Donald Woods
Sears & Roebuck Company

Merchandise Group-Western Law Office

900 South Fremont Ave.

Alhambra, CA 91802

RE: San Rafael Store

900 Northgate Mall

San Rafael, CA 94903

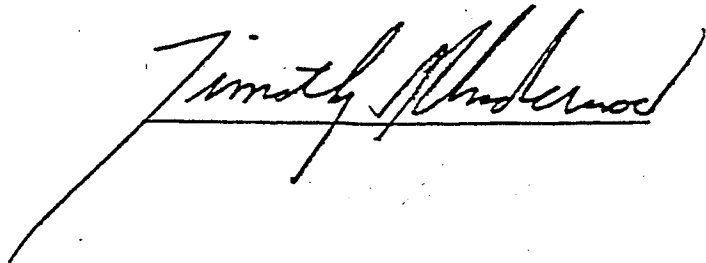
CLEARANCE

Analysis of samples of the soil or ground water at the above site indicated a safe level or absence of any residual of the product formerly stored in underground storage tanks at this location.

Thank you for your cooperation.

Very truly yours,

EDWARD J. STEWART, CHIEF
ENVIRONMENTAL HEALTH SERVICES



DEPARTMENT OF HEALTH AND HUMAN SERVICES
Environmental Health Services
COUNTY OF MARIN
Hall of Justice • Civic Center • San Rafael, CA 94903
(415) 499-6907

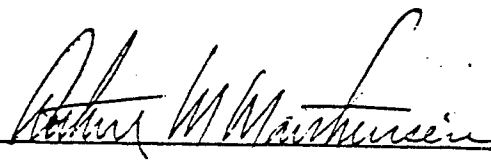
PERMIT TO REMOVE UNDERGROUND STORAGE TANK

TO <u>Sears, Roebuck and Company</u> <u>Attn: Donald Woods</u> <u>Merchandise Group-Western Law Office</u> <u>900 South Fremont Ave.</u> <u>Alhambra, CA 91802</u>	NAME OF FACILITY <u>San Rafael Store</u> ADDRESS <u>9000 Northgate Mall</u> <u>San Rafael, CA 94903</u>
NO. OF TANKS TO BE REMOVED <u>3</u>	

TANK ID#(S) 2929001,002, 003

PURSUANT TO THE CALIFORNIA ADMINISTRATIVE REGULATIONS, PERMISSION IS GRANTED TO REMOVE UNDERGROUND STORAGE TANKS AT THE ABOVE LOCATION WITH THE FOLLOWING CONDITIONS:

1. ALL STORED MATERIAL TO BE REMOVED.
2. TANK PURGED OF FLAMMABLE VAPORS.
3. PROPER DISPOSAL OF THE TANK.

SIGNED 

DATE August 5, 1986

cc: K. Schoenthal, San Rafael Fire Dept.
K.E. Curtis Construction Co.



COUNTY OF MARIN
HALL OF JUSTICE
CIVIC CENTER
ROOM 285
SAN RAFAEL, CALIFORNIA 94903
(415) 499-6907

RECEIVED

#265.021

AUG 5 1986

#464035
86

ENVIRONMENTAL HEALTH SERVICES

APPLICATION TO REMOVE
UNDERGROUND HAZARDOUS MATERIAL STORAGE TANK ENVIRONMENTAL HEALTH

1. Facility Information

Name of Facility SEARS		Type of Business AUTOMOTIVE & RETAIL SALES	
Street Address 9000 NORTHGATE MALL	City SAN RAFAEL	Zip Code 94903	Telephone 472-3670
Contract Period MID AUGUST 1986		Position with Company ANALYTICAL CHEMIST	Telephone (805) 498-6771
Owners Name (Corporation, Agency, or Individual) SEARS & ROEBUCK COMPANY			
Street Address (if Different than Above) 900 S. FREMONT AVE.		City ALHAMBRA	Zip Code 91802
		Telephone (818) 576-4225	

2. Contractor Removing Tank

Company Name K.E. CURTIS CONSTRUCTION COMP.	Street Address 1400 OLD CONEJO RD	City NEWBURY PARK	Telephone (805) 499-0428
<i>CA. 91320</i>			

3. Soil Analysis Laboratory

Company Name COMBUSTION ENGINEERING EMST	Street Address 2421 W. HILLCREST DR	City NEWBURY PARK	Telephone (805) 498-6771
<i>CA.</i>			

4. Hazardous Waste Hauler (if appropriate)

Company Name IT CORP.	Street Address 4585 PACHECO	City MARTENIZ	Telephone (415) 372-9110
---------------------------------	---------------------------------------	-------------------------	------------------------------------

5. Tank Identification & Construction

Tank ID # 2929002	UL # - NA -	Year Tank Installed 1972	Volume of Tank (Gallon) 2-500, 1-1000	Cathodic Protection <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, Type _____
Primary Construction <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fiberglass <input type="checkbox"/> Fiberglass/Coated Steel <input type="checkbox"/> Other: SINGLE WALL				

6. Chemical Composition of Materials Currently or Previously Stored in Tank

currently stored	previously stored	CAS # (if known)	Chemical Do Not Use Commercial Name (Use additional paper for more room)
<input type="checkbox"/> 01	<input checked="" type="checkbox"/> 02		WASTE OIL BULK WASTE OIL
<input type="checkbox"/> 01	<input checked="" type="checkbox"/> 02		WASTE OIL BULK WASTE OIL
<input type="checkbox"/> 01	<input checked="" type="checkbox"/> 02		WASTE OIL

7. Piping

A. Aboveground Piping: 01 Double-walled pipe 02 Concrete-lined trench 03 Gravity 04 Pressure 05 Suction
 [(Check) appropriate box(es)] 06 Unknown 07 None

B. Underground Piping: 01 Double-walled pipe 02 Concrete-lined trench 03 Gravity 04 Pressure 05 Suction
 [(Check) appropriate box(es)] 06 Unknown 07 None

8. Disposition of Tank(s)

Proposed Disposition of Tank(s) IT WILL REMOVE, RINSE & TANK SCRAPPED	Reason for Removal NO LONGER IN THAT SALES BUSINESS
---	---

9. Applicant Information

Name of Applicant MARK GIGAS	Signature of Applicant <i>Mark Gigas</i>	Date 8/4/86
--	---	-----------------------



H.E. Schmalen
Director of Environmental Matters
Dept. 824C 72A
Sears Merchand. Group
3333 Beverly Road
Hoffman Estates, Illinois 60179
708-286-8071

September 13, 1993

Mr. Robert D. Aptaker
Environmental Manager
The MaceRich Company
P.O. Box 3879
Ventura, CA 93006

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VENTURA

SEP 13 1993

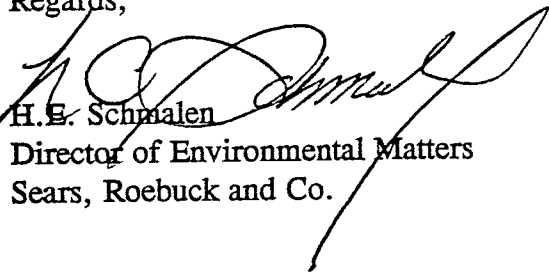
subj: Sears Park Lane Mall, Reno NV
re: Your letter of September 10, 1993
Our phone conversation this date

Dear Bob,

As I indicated in our phone conversation this afternoon, the attached invoices are the only "records" that we have of the tank pulls at this site. As you know, back in 1986 was not atypical for our individual regions at that time to take care of these UST's and complete records are usually not available here.

I hope that this helps with your lenders. If I can be of any further assistance Bob, don't hesitate to call.

Regards,


H.E. Schmalen
Director of Environmental Matters
Sears, Roebuck and Co.

att (2)
cc: Szymczak
Krantz

COMPRESSORS
HYDRAULIC JACKS

T & T ENGINEERING, INC.

GASOLINE PUMPS
LINCOLN LUBE EQUIPMENT

1375 EAST SECOND ST. NO. NEVADA 89502-1196 TELEPHONE (702) 322-4061



"SINCE 1946"

PETROLEUM MARKETING EQUIPMENT
SALES AND SERVICE
GENERAL CONTRACTORS
INDUSTRIAL EQUIPMENT AND TOOLS

PEI
INSTRUMENTS

11756

SHIPPING No. 25731

SOLD TO SERRS ROERBUCK & Co
200 E. PLUMB ROAD
RENO, NV. 89502

SHIPPED TO Washburn
350 GLENDALE AVE
SPARKS, NV. 89431

ATTN: NEIL DRESBACH

DATE OF ORDER 5-14-86	DATE OF INVOICE 11-25-86	CUSTOMER ORDER NO. CONTRACT-	REQUISITION NO.	<input type="checkbox"/> RESALE	SALESMAN KMY	SHIP VIA Deliver
--------------------------	-----------------------------	---------------------------------	-----------------	---------------------------------	-----------------	---------------------

ORDERED	SHIPPED	B.O.	DESCRIPTION	LIST	NET	AMOUNT
			Change Order #1			
			Removal of 8000 gal gasoline tank at above site			
			as per agreement			4950

NO DISCOUNT. ALL ACCOUNTS ARE DUE AND PAYABLE BY THE 10th OF THE MONTH FOLLOWING DATE OF INVOICE. FINANCE CHARGE OF 1 3/4% per month which is an ANNUAL PERCENTAGE RATE OF 21% after 30 days.

PLEASE PAY FROM INVOICE STATEMENT SENT ONLY ON REQUEST

SUB TOTAL	
SALES TAX	
TOTAL	4950

1375 EAST SECOND ST. LAS VEGAS, NEVADA 89502-1196 * TELEPHONE (702) 322-4000



"SINCE 1946"
PETROLEUM MARKETING EQUIPMENT
SALES AND SERVICE
GENERAL CONTRACTORS
INDUSTRIAL EQUIPMENT AND TOOLS

SHIPPING No. 25498

SOLD TO SEARS, ROEBUCK & CO.
200 EAST PLUMAS AVE
HELEN, NV. 89502

SHIPPED TO STAIN # 2098
HELEN, NV.

ATTN: R. NEIL DRESBACH

DATE OF ORDER	DATE OF INVOICE	CUSTOMER ORDER NO	REQUISITION NO	RESALE	SALESMAN	SHIP TO	AMOUNT
5-14-84	8-11-84	CONTRACT		<input type="checkbox"/>	J.W.T.	DELIVER	
ORDERED	SHIPPED	B.O.	DESCRIPTION	LIST	NET	AMOUNT	
			REMOVAL OF UNDERGROUND OIL				
			STORAGE TANKS AS PER CONTRACT.				
			AS PER CONTRACT				7750 ⁰⁰
			90% OF 7750 ⁰⁰	6975 ⁰⁰			
			10% OF 7750 ⁰⁰	775 ⁰⁰			
				7750 ⁰⁰			

NO DISCOUNT. ALL ACCOUNTS ARE DUE AND PAYABLE BY THE 10th OF THE MONTH FOLLOWING DATE OF INVOICE.
FINANCE CHARGE OF 1 3/4% PER MONTH WHICH IS AN ANNUAL PERCENTAGE RATE OF 21% AFTER 30 DAYS.

SUB TOTAL

SALES TAX

TOTAL

INCLUDED

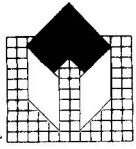
7750⁰⁰

PLEASE PAY FROM INVOICE STATEMENT SENT ONLY ON REQUEST

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT
FOR
THE MACERICH COMPANY
THE MALL AT NORTHGATE
5800 NORTHGATE DRIVE
SAN RAFAEL, CALIFORNIA
DEI PROJECT NO. D2088-0221
AUGUST 12, 1993**

CONFIDENTIAL AND PRIVILEGED

925-460-5300



ATC/DIAGNOSTIC ENVIRONMENTAL INC.

6658 Owens Dr.
Pleasanton, CA
94588

510-460-5300
FAX 510-463-2559

- Air/Soil/Water Analysis
- Asbestos Management
- Building System Evaluation
- Environmental Engineering
- Industrial Hygiene
- Remedial Investigation

August 12, 1993

Mr. Bob Aptaker
 Assistant Vice President
 Environmental Manager
 THE MACERICH COMPANY
 1891 Goodyear Avenue, Suite 618
 Ventura, California 93003

RE: ENVIRONMENTAL SITE ASSESSMENT
 NORTHGATE MALL, SAN RAFAEL, CALIFORNIA
 PROJECT NO. D2088-0221

Mr. Aptaker:

Attached is the Environmental Site Assessment Report for the above-referenced facility. The report includes an Executive Summary, Project Area Overview, Geological/Hydrogeological Data, Project Area Observations, Neighboring Property Observations, Public Records Review, and Findings.

If you have any questions regarding this report, please call this office.

Sincerely,

DIAGNOSTIC ENVIRONMENTAL INC.

Wilson Wong
 Assistant Project Manager

Donald A. Ashton
 Environmental Program Manager

DAA/WW/ko

Attachment (2)

cc: Ms. Lori Gatto (2)

VENTURA CONSTRUCTION SERVICES
 DRAFTING DEPARTMENT

AUG 17 93

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